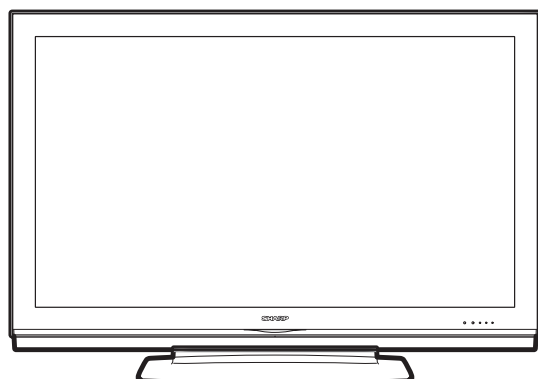


# SHARP SERVICE MANUAL

No. S37C3LC46D82U



## LCD COLOR TELEVISION

# LC-46D82U

# MODELS LC-52D82U

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

## SAFETY PRECAUTION

### IMPORTANT SERVICE SAFETY PRECAUTION

- Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:

#### ■WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

**CAUTION:** FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE FUSE.

F701 (250V 8A), F702 (250V 2A)  
F4702 (250V 4A),  
F4701/F4703 (250V 3A ~ 127 °C)

#### ■BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

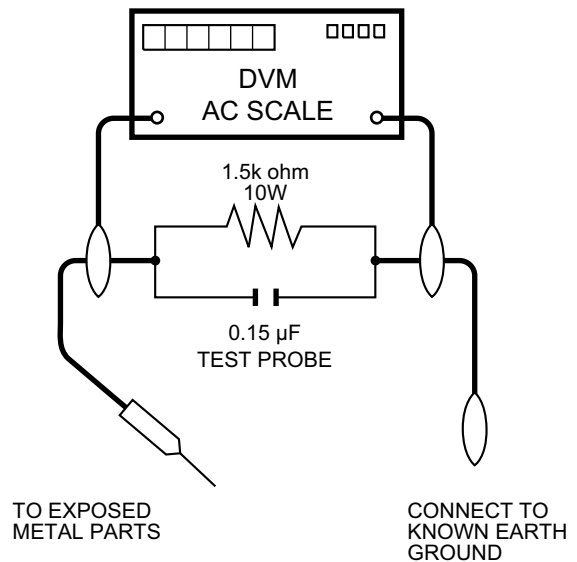
Before returning the receiver to the user, perform the following safety checks:

3. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
4. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
5. To be sure that no shock hazard exists, check for leakage current in the following manner.
  - Plug the AC cord directly into a 120 volt AC outlet.
  - Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15μF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.

- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)

Any reading of 0.75 Vrms (this corresponds to 0.5 mA rms AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



#### SAFETY NOTICE

Many electrical and mechanical parts in LCD color television have special safety-related characteristics.

These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts List and Schematic Diagrams.

For continued protection, replacement parts must be identical to those used in the original circuit.

The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.



## PRECAUTIONS A PRENDRE LORS DE LA REPARATION

■ Ne peut effectuer la réparation qu'un technicien spécialisé qui s'est parfaitement accoutumé à toute vérification de sécurité et aux conseils suivants.

### ■ AVERTISSEMENT

1. N'entreprendre aucune modification de tout circuit. C'est dangereux.
2. Débrancher le récepteur avant toute réparation.

**PRECAUTION: POUR LA PROTECTION CONTINUE CONTRE LES RISQUES D'INCENDIE, REMPLACER LE FUSIBLE**

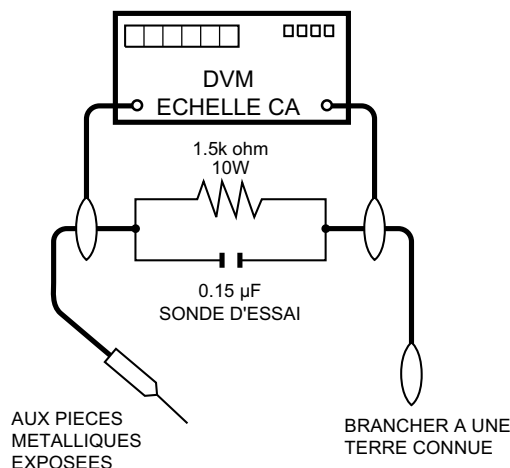
F701 (250V 8A), F702 (250V 2A)  
F4702 (250V 4A),  
F4701/F4703 (250V 3A ~ 127°C)

### ■ VERIFICATIONS CONTRE L'INCENDIE ET LE CHOC ELECTRIQUE

Avant de rendre le récepteur à l'utilisateur, effectuer les vérifications suivantes.

3. Inspecter tous les faisceaux de câbles pour s'assurer que les fils ne soient pas pincés ou qu'un outil ne soit pas placé entre le châssis et les autres pièces métalliques du récepteur.
4. Inspecter tous les dispositifs de protection comme les boutons de commande non-métalliques, les isolants, le dos du coffret, les couvercles ou blindages de réglage et de compartiment, les réseaux de résistancecapacité, les isolateurs mécaniques, etc.
5. S'assurer qu'il n'y ait pas de danger d'électrocution en vérifiant la fuite de courant, de la façon suivante:
  - Brancher le cordon d'alimentation directement à une prise de courant de 120V. (Ne pas utiliser de transformateur d'isolation pour cet essai).

- A l'aide de deux fils à pinces, brancher une résistance de 1.5 k $\Omega$  10 watts en parallèle avec un condensateur de 0.15 $\mu$ F en série avec toutes les pièces métalliques exposées du coffret et une terre connue comme une conduite électrique ou une prise de terre branchée à la terre.
- Utiliser un voltmètre CA d'une sensibilité d'au moins 5000 $\Omega$ /V pour mesurer la chute de tension en travers de la résistance.
- Toucher avec la sonde d'essai les pièces métalliques exposées qui présentent une voie de retour au châssis (antenne, coffret métallique, tête des vis, arbres de commande et des boutons, écusson, etc.) et mesurer la chute de tension CA en-travers de la résistance. Toutes les vérifications doivent être refaites après avoir inversé la fiche du cordon d'alimentation. (Si nécessaire, une prise d'adaptation non polarisée peut être utilisée dans le but de terminer ces vérifications.)  
La tension de pointe mesurée ne doit pas dépasser 0.75V (correspondante au courant CA de pointe de 0.5mA). Dans le cas contraire, il y a une possibilité de choc électrique qui doit être supprimée avant de rendre le récepteur au client.



### AVIS POUR LA SECURITE

De nombreuses pièces, électriques et mécaniques, dans les téléviseur ACL présentent des caractéristiques spéciales relatives à la sécurité, qui ne sont souvent pas évidentes à vue. Le degré de protection ne peut pas être nécessairement augmentée en utilisant des pièces de remplacement étalonnées pour haute tension, puissance, etc.

Les pièces de remplacement qui présentent ces caractéristiques sont identifiées dans ce manuel; les pièces électriques qui présentent ces particularités sont identifiées par la marque " $\triangle$ " et hachurées dans la liste des pièces de remplacement et les diagrammes schématiques.

Pour assurer la protection, ces pièces doivent être identiques à celles utilisées dans le circuit d'origine. L'utilisation de pièces qui n'ont pas les mêmes caractéristiques que les pièces recommandées par l'usine, indiquées dans ce manuel, peut provoquer des électrocutions, incendies, radiations X ou autres accidents.

**PRECAUTIONS FOR USING LEAD-FREE SOLDER****■Employing lead-free solder**

- “PWBs” of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:



Indicates lead-free solder of tin, silver and copper.



Indicates lead-free solder of tin, silver and copper.

**■Using lead-free wire solder**

- When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40 °C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

**■Soldering**

- As the melting point of lead-free solder (Sn-Ag-Cu) is about 220 °C which is higher than the conventional lead solder by 40 °C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.

If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

- Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

| PARTS CODE    | PRICE RANK | PART DELIVERY | DESCRIPTION         |
|---------------|------------|---------------|---------------------|
| ZHNDai123250E | BL         | J             | φ0.3mm 250g (1roll) |
| ZHNDai126500E | BK         | J             | φ0.6mm 500g (1roll) |
| ZHNDai12801KE | BM         | J             | φ1.0mm 1kg (1roll)  |

# CHAPTER 1. OPERATION MANUAL

## [1] SPECIFICATIONS

| Item                       |                    |                                      | Model: LC-46D82U                                                                                            | Model: LC-52D82U                                                                                          |
|----------------------------|--------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| LCD panel                  |                    |                                      | 46" Advanced Super View & BLACK TFT LCD                                                                     | 52" Advanced Super View & BLACK TFT LCD                                                                   |
| Number of dots             |                    |                                      | 6,220,800 dots (1920 X 1080 X 3 dots)                                                                       |                                                                                                           |
| TV Function                | TV-standard (CCIR) |                                      | American TV Standard ATSC/NTSC System                                                                       |                                                                                                           |
|                            | Receiving Channel  | VHF/UHF                              | VHF 2-13ch, UHF 14-69ch                                                                                     |                                                                                                           |
|                            |                    | CATV                                 | 1-135ch (non-scrambled channel only)                                                                        |                                                                                                           |
|                            |                    | Digital Terrestrial Broadcast (8VSB) | 2-69ch                                                                                                      |                                                                                                           |
|                            |                    | Digital cable*1 (64/256 QAM)         | 1-135ch (non-scrambled channel only)                                                                        |                                                                                                           |
| Audio multiplex            |                    | BTSC System                          |                                                                                                             |                                                                                                           |
| Audio out                  |                    |                                      | 15W X 2                                                                                                     |                                                                                                           |
| Terminals                  | Rear               | INPUT 1                              | AV in, COMPONENT in                                                                                         |                                                                                                           |
|                            |                    | INPUT 2                              | AV in, COMPONENT in                                                                                         |                                                                                                           |
|                            |                    | INPUT 3                              | S-VIDEO in, AV in                                                                                           |                                                                                                           |
|                            |                    | INPUT 4                              | HDMI in with HDCP                                                                                           |                                                                                                           |
|                            |                    | INPUT 5                              | HDMI in with HDCP                                                                                           |                                                                                                           |
|                            |                    | INPUT 6                              | Audio in, HDMI in with HDCP                                                                                 |                                                                                                           |
|                            |                    | ANTENNA                              | 75 Ω Unbalance, F Type X 1 for Analog (VHF/UHF/CATV) and Digital (AIR/CABLE)                                |                                                                                                           |
|                            |                    | DIGITAL AUDIO OUTPUT                 | Optical Digital audio output X 1 (PCM/Dolby Digital)                                                        |                                                                                                           |
| OUTPUT                     |                    | Audio out                            |                                                                                                             |                                                                                                           |
| OSD language               |                    |                                      | English/French/Spanish                                                                                      |                                                                                                           |
| Power Requirement          |                    |                                      | AC 120 V, 60 Hz (FOR NORTH AMERICA)<br>AC 110-240 V, 50/60 Hz (FOR OTHERS)                                  |                                                                                                           |
| Power Consumption          |                    |                                      | 285 W (0.7 W Standby with AC 120V)                                                                          | 322 W (0.7 W Standby with AC 120V)                                                                        |
| Weight                     | TV+ stand          |                                      | 78.3 lbs./35.5 kg                                                                                           | 92.6 lbs./42.0 kg                                                                                         |
|                            | TV only            |                                      | 68.3 lbs./31.0 kg                                                                                           | 82.7 lbs./37.5 kg                                                                                         |
| Dimension*2<br>(W X H X D) | TV+ stand          |                                      | 44 <sup>49</sup> / <sub>64</sub> X 31 <sup>11</sup> / <sub>32</sub> X 12 <sup>11</sup> / <sub>64</sub> inch | 50 <sup>1</sup> / <sub>8</sub> X 34 <sup>29</sup> / <sub>64</sub> X 12 <sup>11</sup> / <sub>64</sub> inch |
|                            | TV only            |                                      | 44 <sup>49</sup> / <sub>64</sub> X 28 <sup>7</sup> / <sub>8</sub> X 4 <sup>57</sup> / <sub>64</sub> inch    | 50 <sup>1</sup> / <sub>8</sub> X 31 <sup>63</sup> / <sub>64</sub> X 4 <sup>31</sup> / <sub>32</sub> inch  |
| Operating temperature      |                    |                                      | + 32°F to + 104°F (0°C to+ 40°C)                                                                            |                                                                                                           |

\*<sup>1</sup> Emergency alert messages via Cable are unreceivable.

\*<sup>2</sup> The dimensional drawings are shown on the inside back cover.

- As part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

### Optional accessory

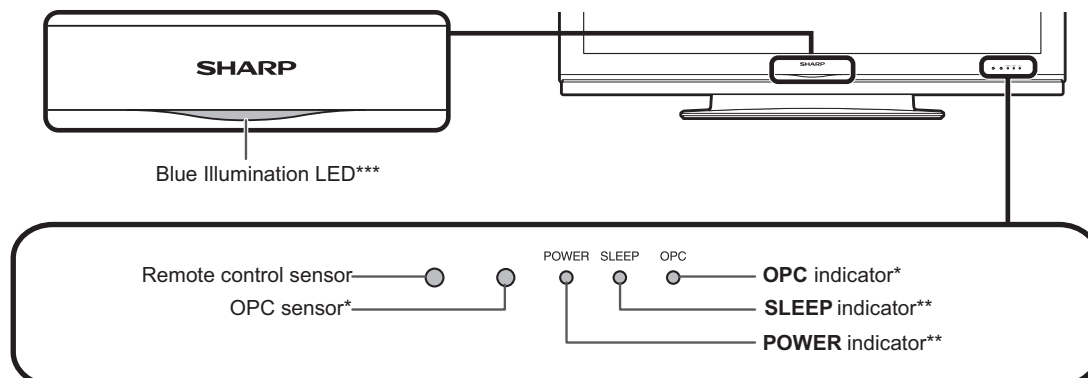
The listed optional accessory is available for the Liquid Crystal Television. Please purchase it at your nearest shop.

- Additional optional accessories may be available in the near future. When purchasing, please read the newest catalogue for compatibility and check the availability.

| Part name          | Model number |
|--------------------|--------------|
| Wall mount bracket | AN-52AG1     |

## Part names

### TV (Front)



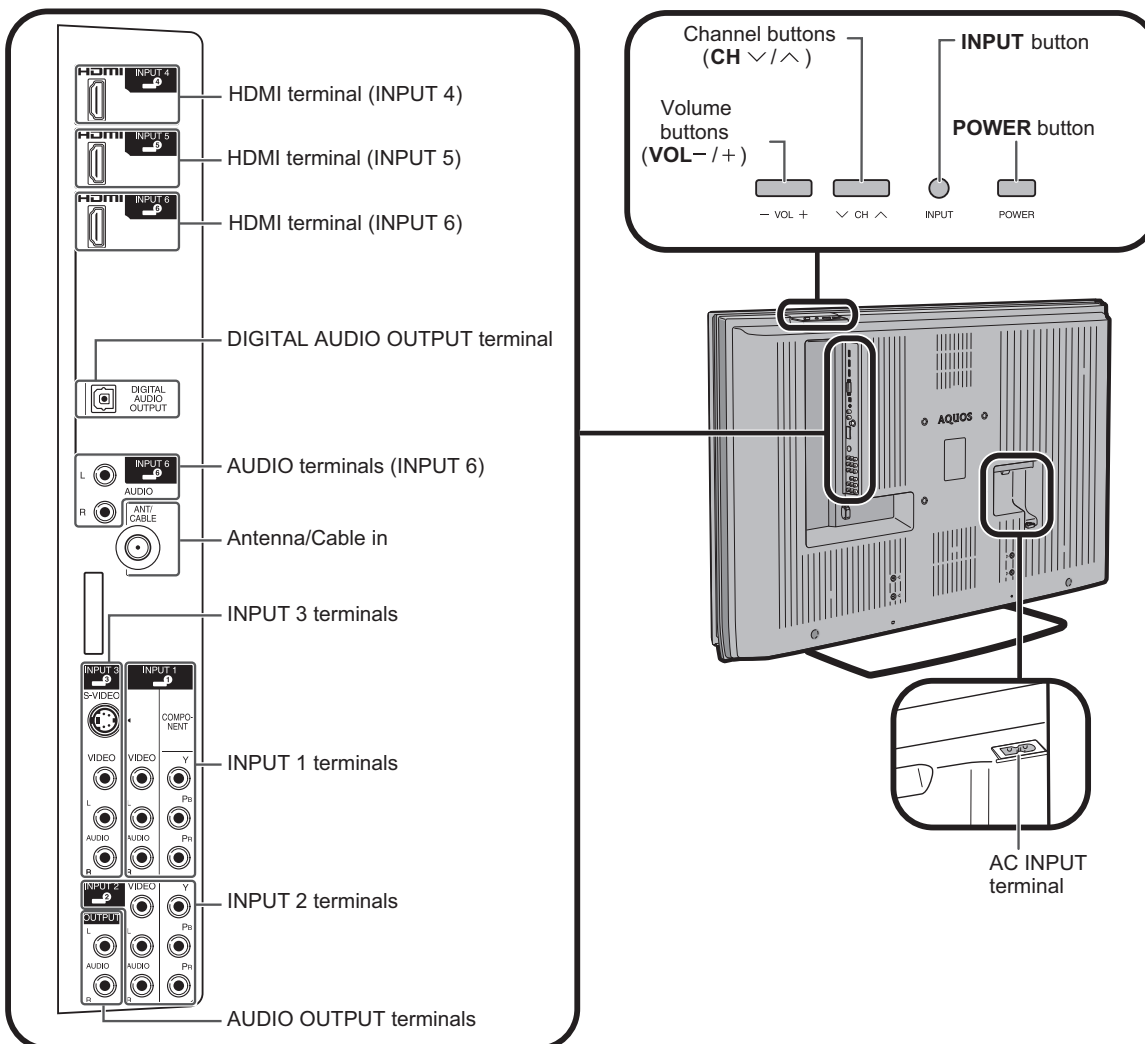
#### NOTE

\*OPC: Optical Picture Control

\*\*TV status indicator.

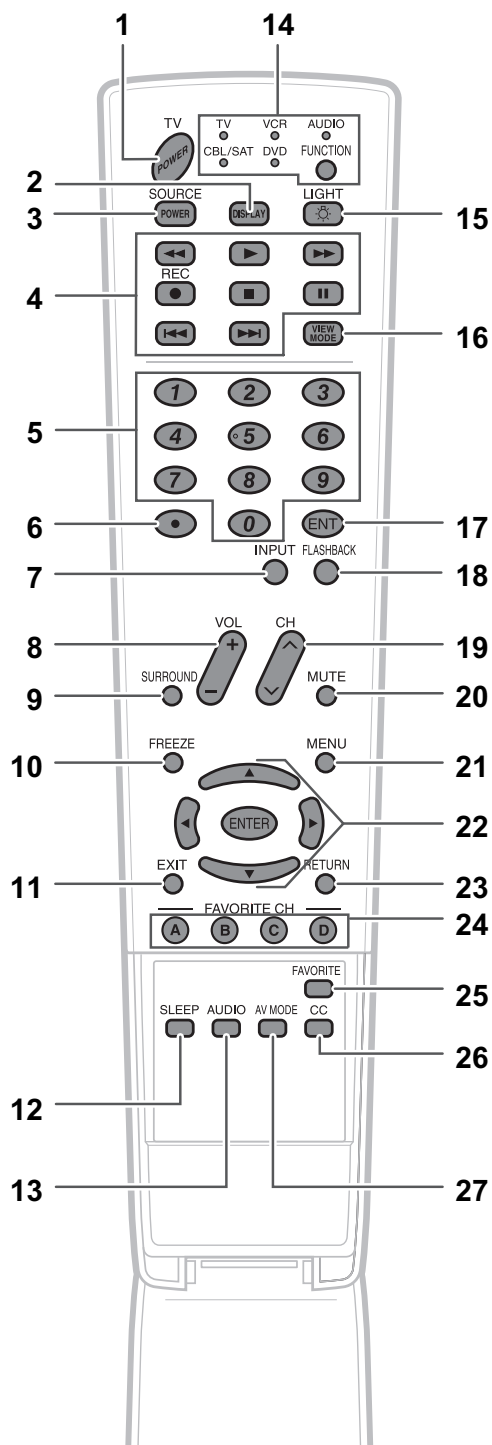
\*\*\*for Blue Illumination LED.

### TV (Rear)



## Part names

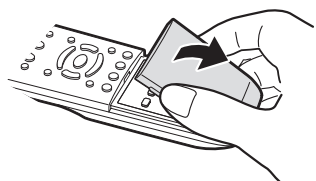
## Remote control unit



- 1 **TV POWER:** Switch the TV power on or enters standby.
- 2 **DISPLAY:** Display the channel information.
- 3 **SOURCE POWER:** Turns the power of the external equipment on and off.
- 4 **External equipment operational buttons:** Operate the external equipment.
- 5 **0 ... 9:** Set the channel.
- 6 **• (DOT):**
- 7 **INPUT:** Select a TV input source. (TV, INPUT 1, INPUT 2, INPUT 3, INPUT 4, INPUT 5, INPUT 6)
- 8 **VOL + / - :** Set the volume.
- 9 **SURROUND:** Select Surround settings.
- 10 **FREEZE:** Set the still image. Press again to return to normal screen.
- 11 **EXIT:** Turn off the menu screen.
- 12 **SLEEP:** Set the sleep timer.
- 13 **AUDIO:** Selects the MTS/SAP or the audio mode during multi-channel audio broadcasts.
- 14 **FUNCTION:** Switches the remote control for TV, CBL/ SAT, VCR, DVD and AUDIO operation. Indicator lights up for the current mode.

\* To enter the code registration mode, you need to press **FUNCTION** and **DISPLAY** at the same time.

- 15 **LIGHT** ☼ : When pressed all buttons on the remote control unit will light. The lighting will turn off if no operations are performed within about 5 seconds. This button is used for performing operations in low-light situations.
- 16 **VIEW MODE:** Select the screen size.
- 17 **ENT:** Jumps to a channel after selecting with the 0...9 buttons.
- 18 **FLASHBACK:** Return to the previous channel or external input mode.
- 19 **CH + / - :** Select the channel.
- 20 **MUTE:** Mute the sound.
- 21 **MENU:** Display the menu screen.
- 22 **▲ / ▼ / ◀ / ▶ / ENTER:** Select a desired item on the screen.
- 23 **RETURN:** Return to the previous menu screen.
- 24 **FAVORITE CH**  
A, B, C, D: Select 4 preset favorite channels in 4 different categories.  
While watching, you can toggle the selected channels by pressing A, B, C and D.
- 25 **FAVORITE:** Set the favorite channels.
- 26 **CC:** Display captions from a closed-caption source.
- 27 **AV MODE:** Select an audio or video setting. (When the input source is TV, INPUT 1, 2 or 3: STANDARD, MOVIE, GAME, USER, DYNAMIC (Fixed), DYNAMIC. When the input source is INPUT 4, 5 or 6: STANDARD, MOVIE, GAME, PC, USER, DYNAMIC (Fixed), DYNAMIC)



## NOTE

- When using the remote control unit, point it at the TV.

# Appendix

## Removing the stand

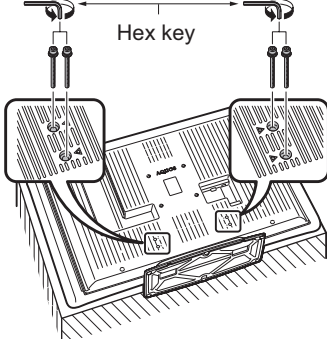
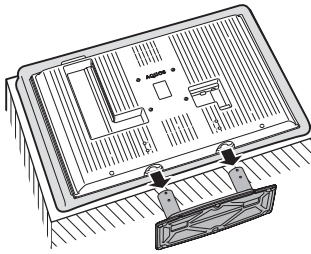
Before detaching (or attaching) stand, unplug the AC cord from the AC INPUT terminal.

### CAUTION

- Do not remove the stand from the TV unless using an optional wall mount bracket to mount it.

### Before attaching/detaching stand

- Before performing work make sure to turn off the TV.
- Before performing work spread cushioning over the base area to lay the TV on. This will prevent it from being damaged.

|                                                                                                                                                                                     |                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>1</b></p>  <p>Hex key</p> <p>Unfasten the four screws used to secure the stand in place.</p> | <p><b>2</b></p>  <p>Detach the stand from the TV.<br/>(Hold the stand so it will not drop from the edge of the base area.)</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### NOTE

- To attach the stand, perform the above steps in reverse order.

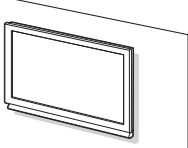
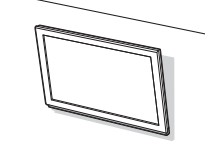
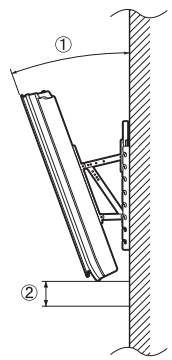
## Setting the TV on the wall

### CAUTION

- This TV should be mounted on the wall only with the AN-52AG1 (SHARP) wall mount bracket. The use of other wall mount brackets may result in an unstable installation and may cause serious injuries.
- Installing the TV requires special skill that should only be performed by qualified service personnel. Customers should not attempt to do the work themselves. SHARP bears no responsibility for improper mounting or mounting that results in accident or injury.

### Using an optional bracket to mount the TV

- You can ask a qualified service professional about using an optional AN-52AG1 bracket to mount the TV to the wall.
- Carefully read the instructions that come with the bracket before beginning work.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |               |                            |                                                         |                                                                                                            |                 |  |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------|----------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------|--|---------------------------------------------------------------------------------------|
| <p><b>Hanging on the wall</b><br/>AN-52AG1 wall mount bracket.<br/>(See the bracket instructions for details.)</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <p>Vertical mounting</p> <p>Angular mounting</p> </div> | <p><b>About setting the TV angle and height adjustment</b></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 30%;">① <b>Angle of TV</b></td> <td>0/5/10/15/20°</td> </tr> <tr> <td rowspan="2">② <b>Height Adjustment</b></td> <td> <math>- 1 \frac{63}{64} (-5)/0/</math><br/> <math>+ 1 \frac{63}{64} (+5)</math> </td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>can be moved <math>1 \frac{63}{64}</math> (5) up or down</li> </ul> </td> </tr> <tr> <td colspan="2">Unit: inch (cm)</td> </tr> </table> | ① <b>Angle of TV</b> | 0/5/10/15/20° | ② <b>Height Adjustment</b> | $- 1 \frac{63}{64} (-5)/0/$<br>$+ 1 \frac{63}{64} (+5)$ | <ul style="list-style-type: none"> <li>can be moved <math>1 \frac{63}{64}</math> (5) up or down</li> </ul> | Unit: inch (cm) |  |  |
| ① <b>Angle of TV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0/5/10/15/20°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |               |                            |                                                         |                                                                                                            |                 |  |                                                                                       |
| ② <b>Height Adjustment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | $- 1 \frac{63}{64} (-5)/0/$<br>$+ 1 \frac{63}{64} (+5)$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |               |                            |                                                         |                                                                                                            |                 |  |                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>can be moved <math>1 \frac{63}{64}</math> (5) up or down</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |               |                            |                                                         |                                                                                                            |                 |  |                                                                                       |
| Unit: inch (cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |               |                            |                                                         |                                                                                                            |                 |  |                                                                                       |

### NOTE

- Detach the cable clamps on the rear of the TV when using the optional mount bracket.

## Appendix

### Troubleshooting

| Problem                                                                                             | Possible Solution                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>No power</li> </ul>                                          | <ul style="list-style-type: none"> <li>Check if you pressed <b>TV POWER</b> on the remote control unit. If the indicator on the TV does not light up, press <b>POWER</b> on the TV.</li> <li>Is the AC cord disconnected?</li> <li>Has the power been turned on?</li> </ul>                                                                                                                         |
| <ul style="list-style-type: none"> <li>Unit cannot be operated.</li> </ul>                          | <ul style="list-style-type: none"> <li>External influences such as lightning, static electricity, may cause improper operation. In this case, operate the unit after first turning on the power of the TV or unplugging the AC cord and replugging it in after 1 or 2 minutes.</li> </ul>                                                                                                           |
| <ul style="list-style-type: none"> <li>Remote control unit does not operate.</li> </ul>             | <ul style="list-style-type: none"> <li>Is the <b>FUNCTION</b> set correctly? Set it to the TV setting position.</li> <li>Are batteries inserted with polarity (+, -) aligned?</li> <li>Are batteries worn out? (Replace with new batteries.)</li> <li>Are you using it under strong or fluorescent lighting?</li> <li>Is a fluorescent light illuminated near the remote control sensor?</li> </ul> |
| <ul style="list-style-type: none"> <li>Picture is cut off/with sidebar screen.</li> </ul>           | <ul style="list-style-type: none"> <li>Is the image position correct?</li> <li>Are screen mode adjustments such as picture size made correctly?</li> </ul>                                                                                                                                                                                                                                          |
| <ul style="list-style-type: none"> <li>Strange color, light color, or color misalignment</li> </ul> | <ul style="list-style-type: none"> <li>Adjust the picture tone.</li> <li>Is the room too bright? The picture may look dark in a room that is too bright.</li> <li>Check the input signal setting.</li> </ul>                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>Power is suddenly turned off.</li> </ul>                     | <ul style="list-style-type: none"> <li>Is the sleep timer set?</li> <li>Check the power control settings.</li> <li>The unit's internal temperature has increased. Remove any objects blocking vent or clean.</li> </ul>                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>No picture</li> </ul>                                        | <ul style="list-style-type: none"> <li>Is connection to other components correct?</li> <li>Is correct input signal source selected after connection?</li> <li>Is the correct input selected?</li> <li>Is picture adjustment correct?</li> <li>Is "On" selected in "Audio Only"?</li> <li>Is a non-compatible signal being input?</li> </ul>                                                         |
| <ul style="list-style-type: none"> <li>No sound</li> </ul>                                          | <ul style="list-style-type: none"> <li>Is the volume too low?</li> <li>Is "Variable" selected in "Output Select"?</li> <li>Have you pressed <b>MUTE</b> on the remote control unit?</li> </ul>                                                                                                                                                                                                      |

### Troubleshooting-Digital broadcasting

The error message about reception of broadcast

| The example of an error message displayed on a screen                          | Error code  | Possible Solution                                                                                                     |
|--------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Failed to receive broadcast.</li> </ul> | <b>E202</b> | <ul style="list-style-type: none"> <li>Check the antenna cable. Check that the antenna is correctly setup.</li> </ul> |
| <ul style="list-style-type: none"> <li>No broadcast now.</li> </ul>            | <b>E203</b> | <ul style="list-style-type: none"> <li>Check the broadcast time in the program guide.</li> </ul>                      |

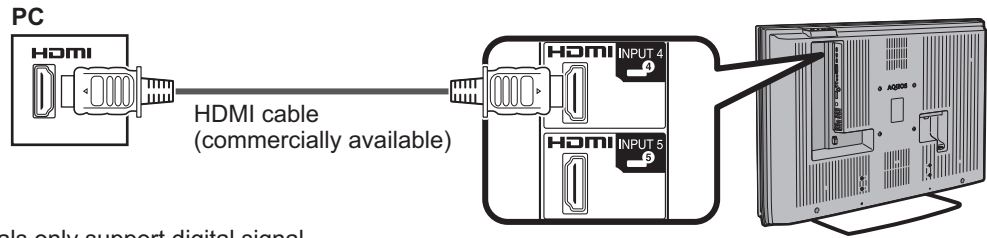
### Cautions regarding use in high and low temperature environments

- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the Liquid Crystal panel to malfunction.  
Storage temperature: - 4°F to + 140°F (-20°C to + 60°C)

Preparation

Connecting a PC

When connecting to a PC with an HDMI terminal. (INPUT 4, 5 or 6)



NOTE

- The HDMI terminals only support digital signal.

PC compatibility chart

It is necessary to set the PC format correctly to display XGA and WXGA signal.

| PC | Resolution |             | Horizontal Frequency | Vertical Frequency | VESA Standard |
|----|------------|-------------|----------------------|--------------------|---------------|
| PC | VGA        | 720 x 400   | 31.5 kHz             | 70 Hz              | —             |
|    |            | 640 x 480   | 31.5 kHz             | 60 Hz              | O             |
|    |            |             | 37.9 kHz             | 72 Hz              | O             |
|    |            |             | 37.5 kHz             | 75 Hz              | O             |
|    | SVGA       | 800 x 600   | 35.1 kHz             | 56 Hz              | O             |
|    |            |             | 37.9 kHz             | 60 Hz              | O             |
|    |            |             | 48.1 kHz             | 72 Hz              | O             |
|    |            |             | 46.9 kHz             | 75 Hz              | O             |
|    | XGA        | 1024 x 768  | 48.4 kHz             | 60 Hz              | O             |
|    |            |             | 56.5 kHz             | 70 Hz              | O             |
|    |            |             | 60.0 kHz             | 75 Hz              | O             |
|    | WXGA       | 1360 x 768  | 47.7 kHz             | 60 Hz              | O             |
|    | SXGA       | 1280 x 1024 | 64.0 kHz             | 60 Hz              | O             |

DDC is a registered trademark of Video Electronics Standards Association.  
Power Management is a registered trademark of Sun Microsystems, Inc.  
VGA and XGA are registered trademarks of International Business Machines Co., Inc.



## Basic adjustment settings

## Menu items for TV/INPUT 1/2/3

 Picture

OPC  
 Backlight  
 Contrast  
 Brightness  
 Color  
 Tint  
 Sharpness  
 Advanced  
     Color Temp.  
     Black  
     Fine Motion Advanced  
     3D-Y/C  
     Monochrome  
     Film Mode  
     Range of OPC  
 Reset

 Audio

Treble  
 Bass  
 Balance  
 Surround  
 Reset

 Power Control

No Signal Off  
 No Operation Off

 Setup

EZ Setup  
 CH Setup  
 Antenna Setup-DIGITAL  
 Input Skip  
 Input Label  
 Parental CTRL  
 Position  
 Language  
 Blue Illumination  
 Reset

 Option

Audio Only  
 Digital Noise Reduction  
 Input Select  
 Output Select  
 Color System  
 Caption Setup  
 Program Title Display  
 Favorite CH

 Digital Setup

Audio Setup

## Menu items for HDMI

 Picture

OPC  
 Backlight  
 Contrast  
 Brightness  
 Color  
 Tint  
 Sharpness  
 Advanced  
     Color Temp.  
     Black  
     Fine Motion Advanced  
     Monochrome  
     Film Mode  
     Range of OPC  
 Reset

 Audio

Treble  
 Bass  
 Balance  
 Surround  
 Reset

 Power Control

No Signal Off  
 No Operation Off

 Setup

Input Skip  
 Input Signal  
 Input Label  
 Position  
 Language  
 Blue Illumination  
 Reset

 Option

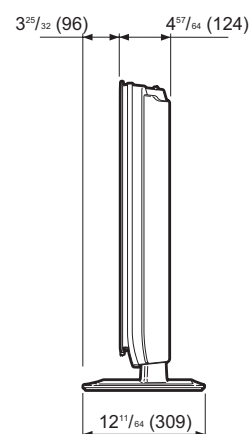
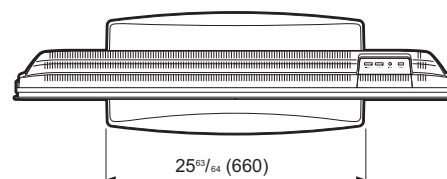
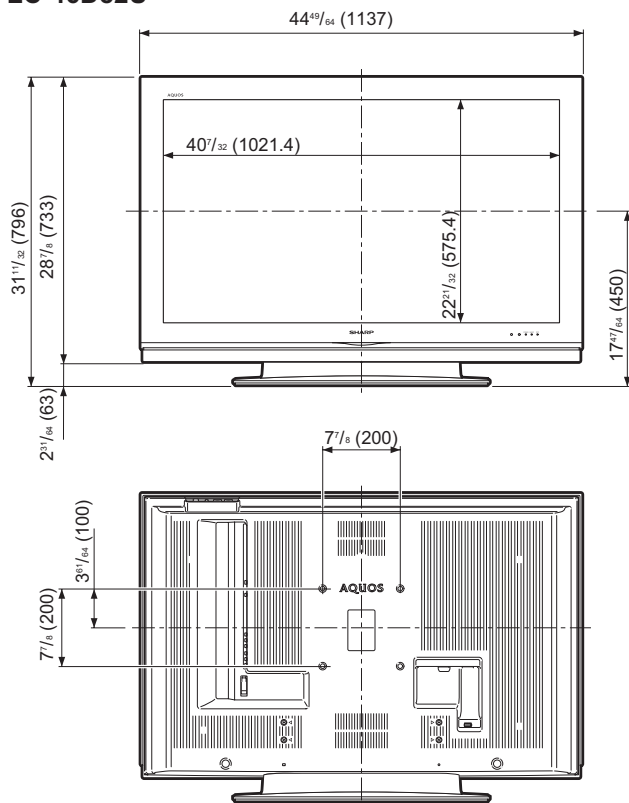
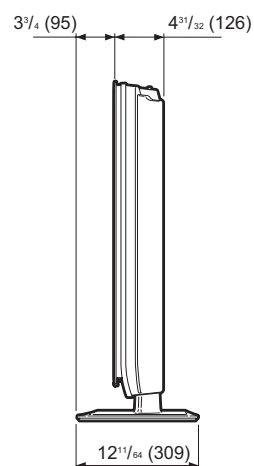
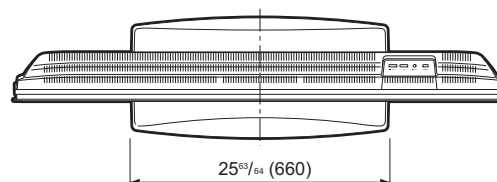
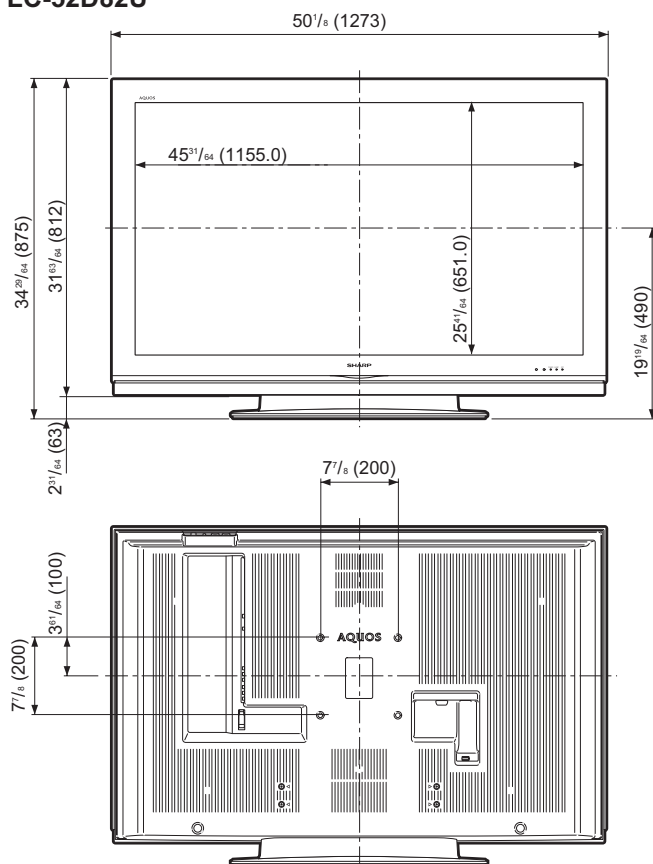
Audio Only  
 Digital Noise Reduction  
 HDMI Setup  
 Output Select

 NOTE

- Some menu items may not be displayed depending on the selected input source.

**[3] DIMENSIONS****LC-46D82U**

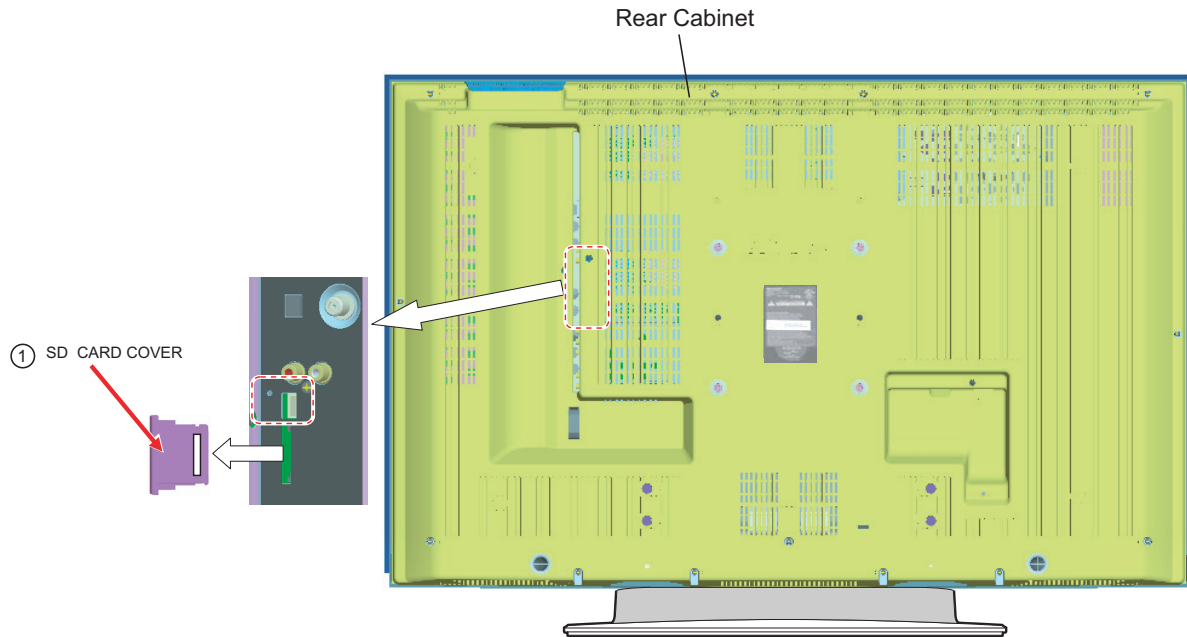
Unit: inch/(mm)

**LC-52D82U**

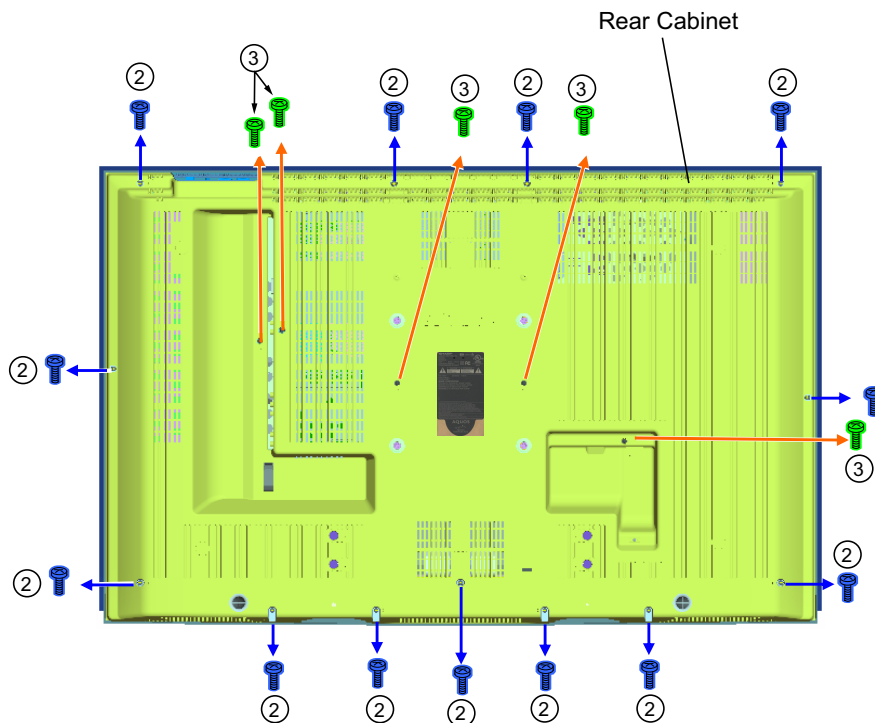
## CHAPTER 2. REMOVING OF MAJOR PARTS

### [1] REMOVING OF MAJOR PARTS (LC-46D82U)

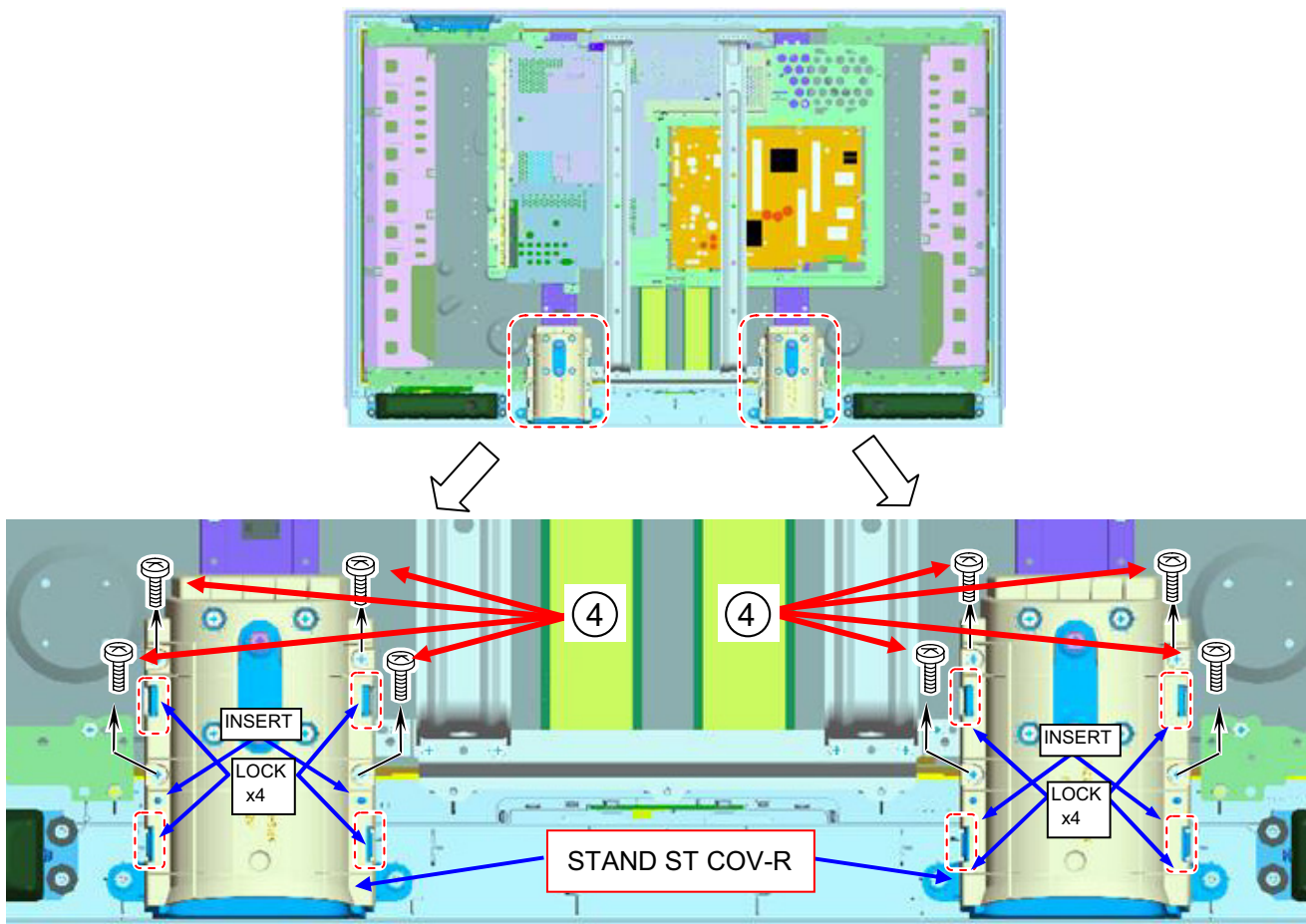
1. Detach the SD Card Cover ①



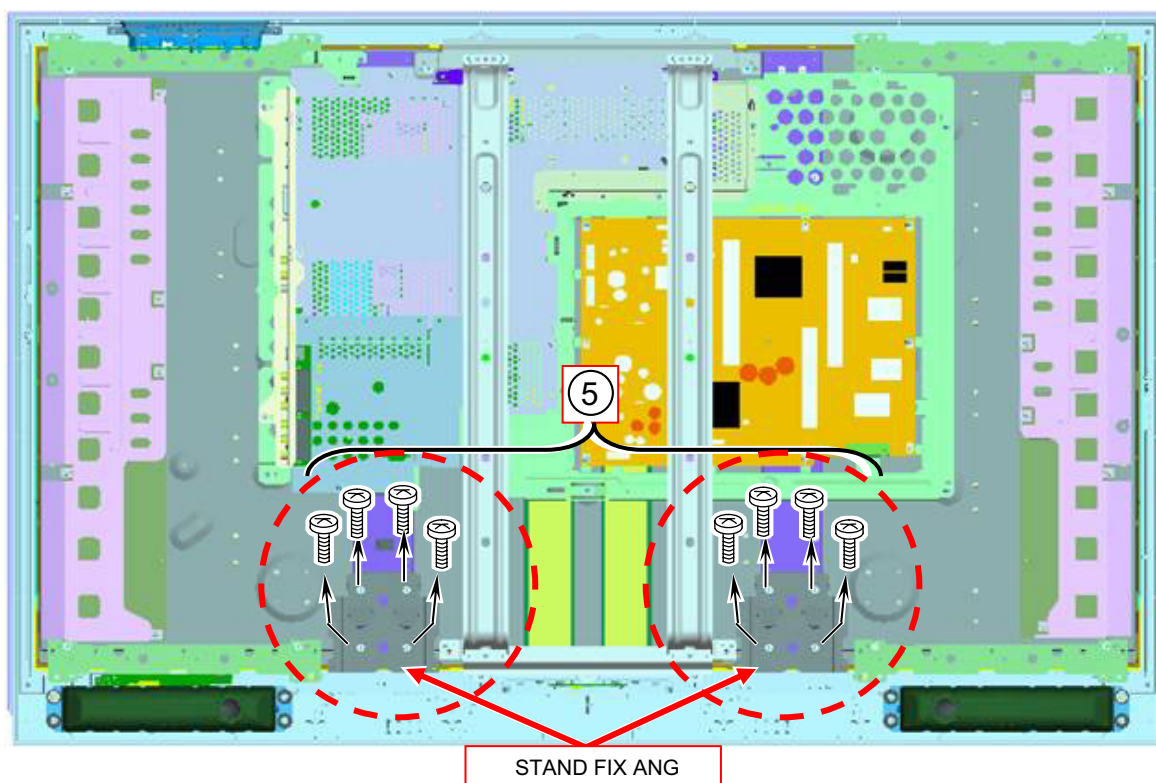
2. Remove the 13 lock screws ② .
3. Remove the 5 lock screws ③ and detach the Rear Cabinet.



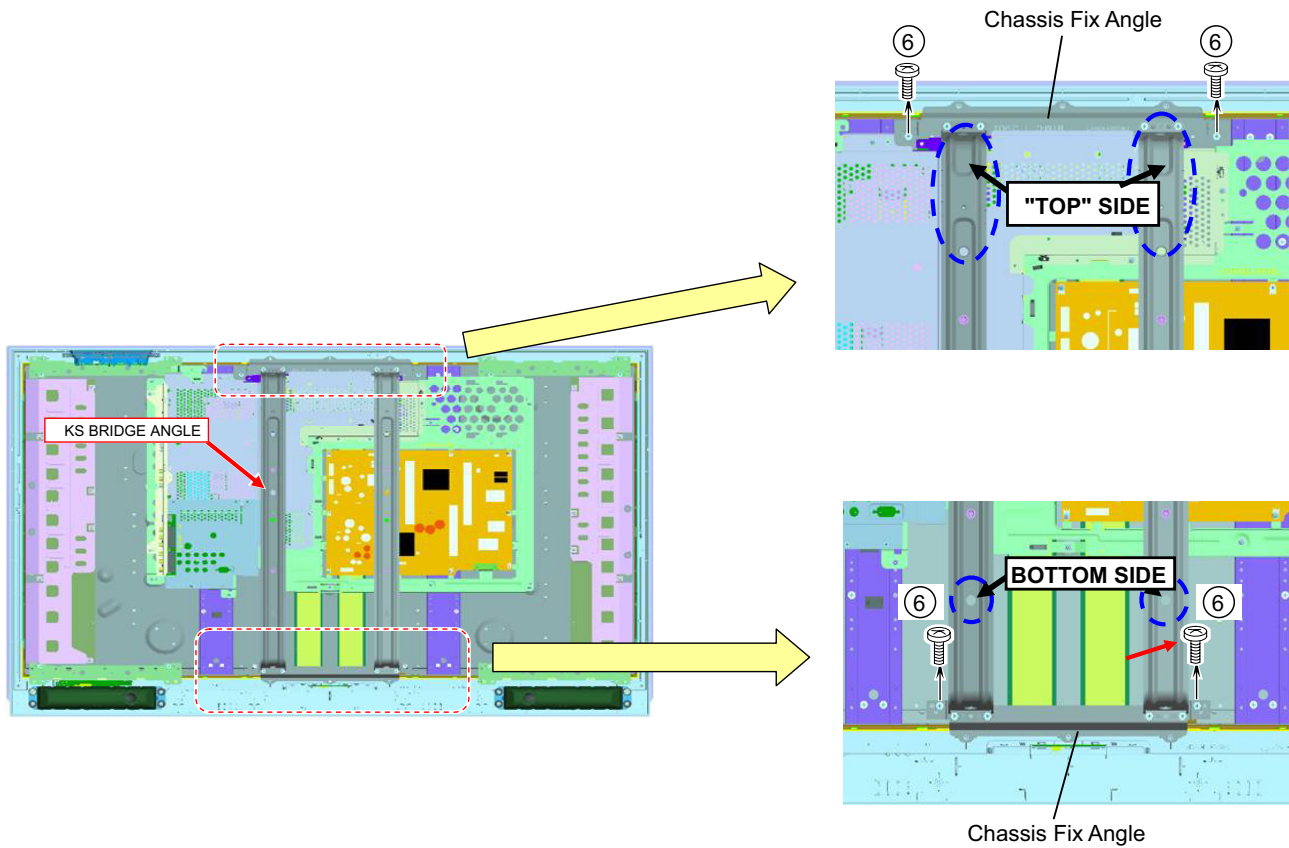
4. Remove the 8 lock screws ④ and detach the Stand Set Cover.



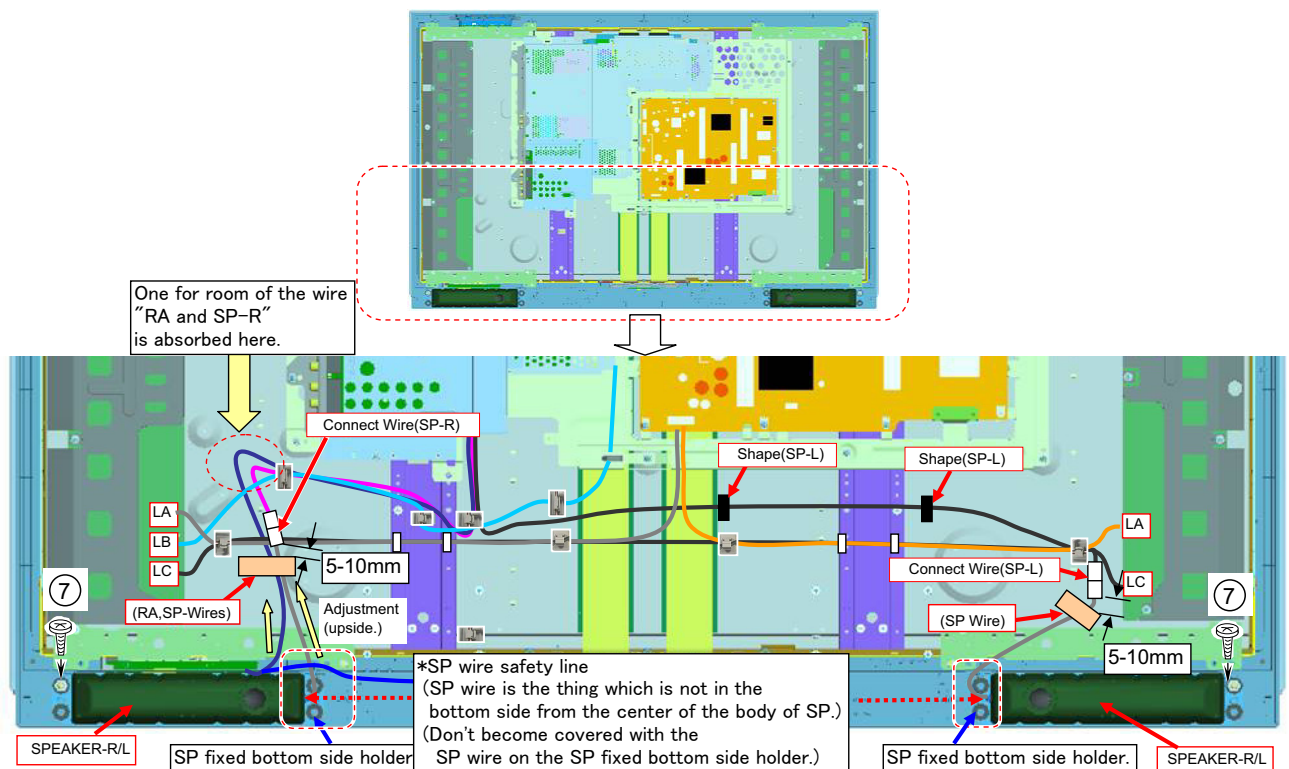
5. Remove the 8 lock screws ⑤ and detach the Stand Fix Angle.



6. Remove the 4 lock screws ⑥ and detach the Bridge Angle Ass'y.

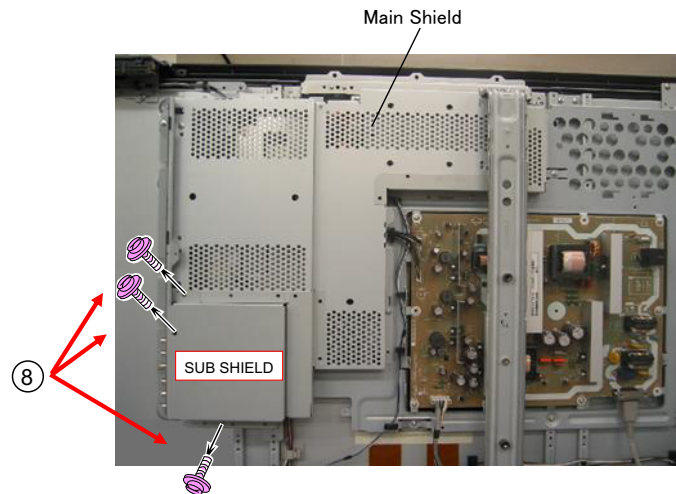
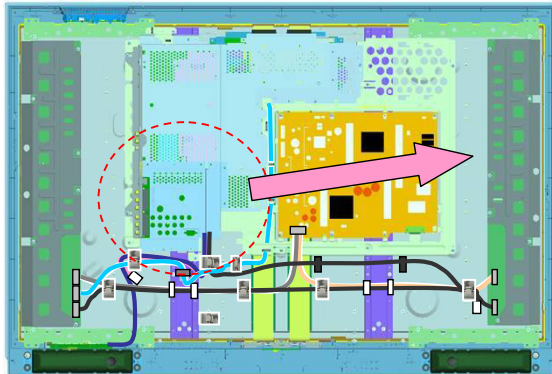


7. Remove the 2 lock screws ⑦ and detach the Speaker-L/R.
8. Remove all the connectors from PWBs.

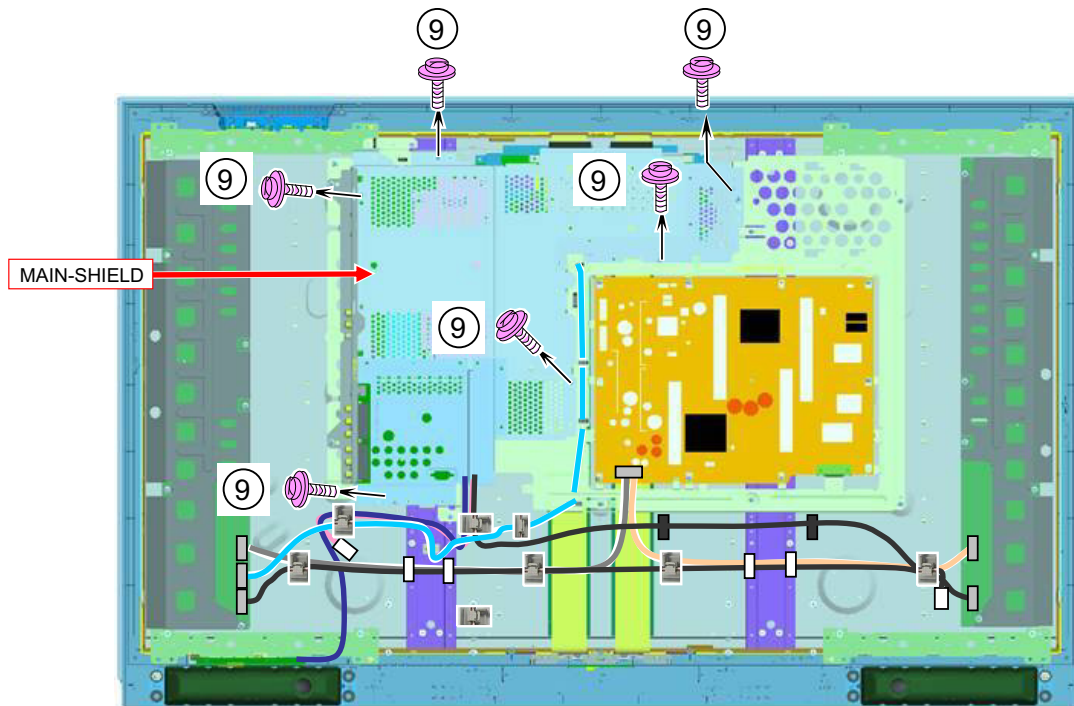




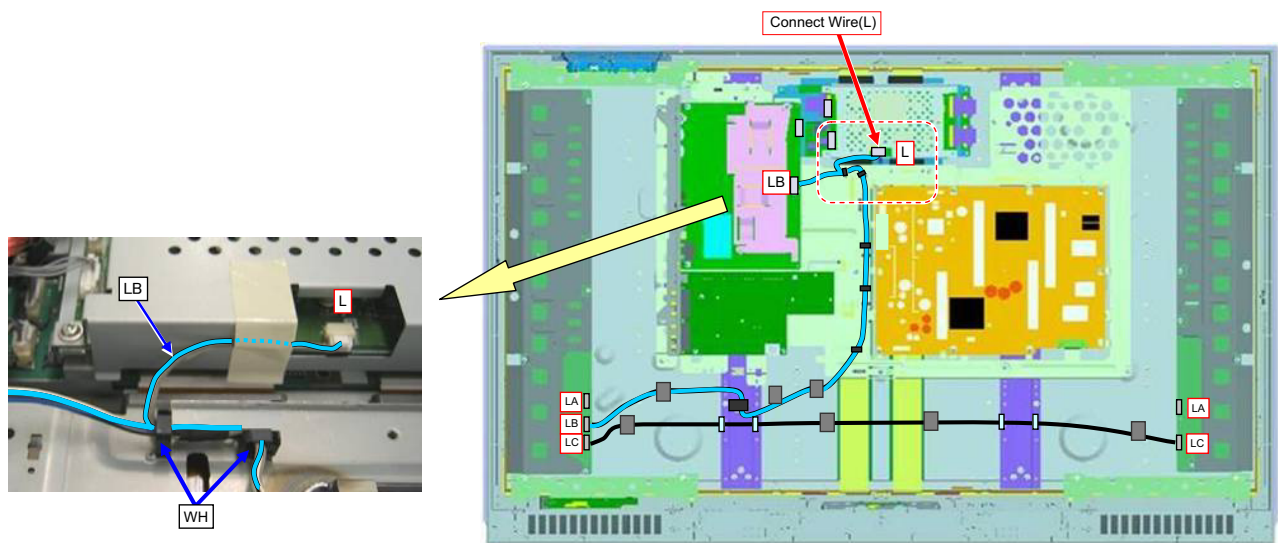
9. Remove the 3 lock screws ⑧ and detach the Sub Shield.



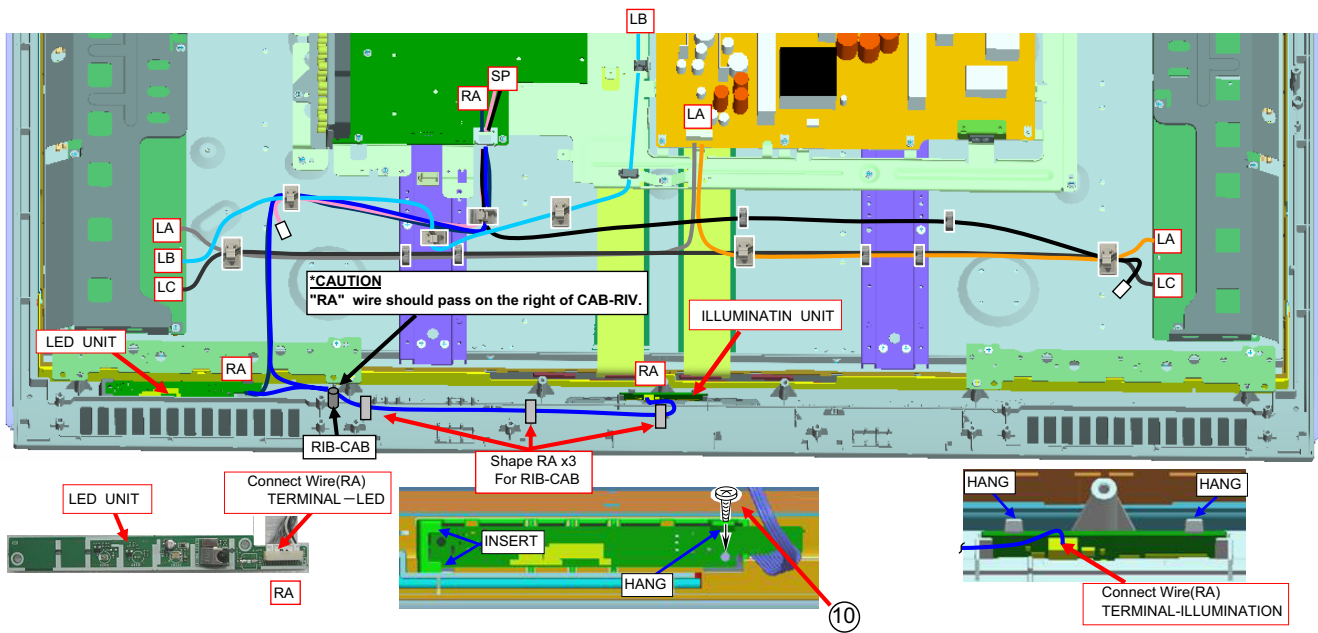
10. Remove the 6 lock screws ⑨ and detach the Main Shield.



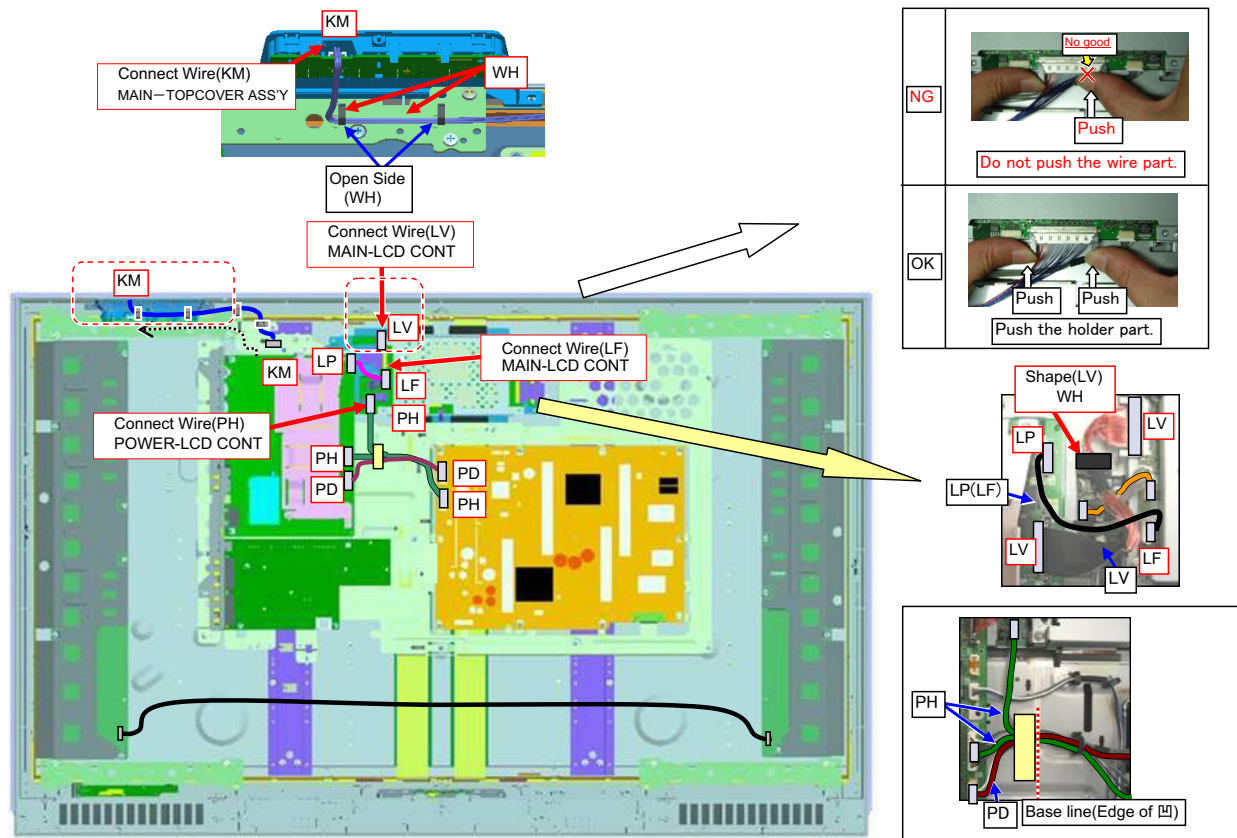
11.Remove all the connectors from PWBs.



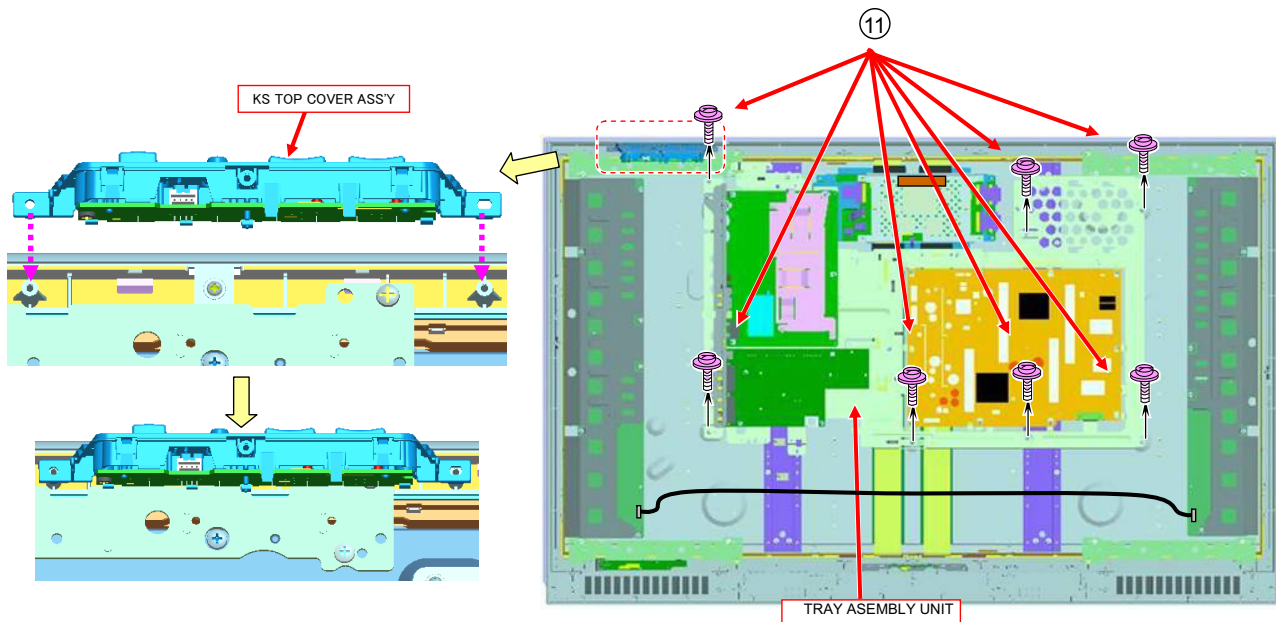
12.Remove the 1 lock screw (10) , and detach the LED Unit.



13.Remove all the connectors from PWBs.

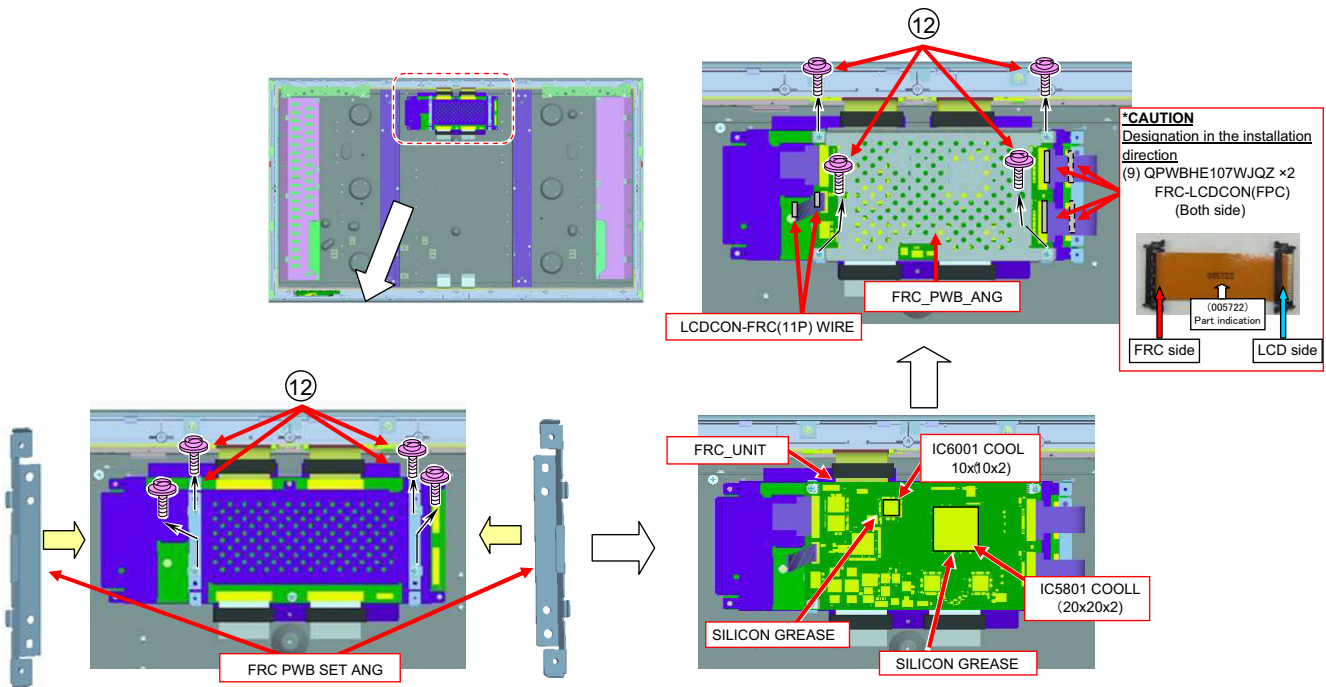


14.Remove the 7 lock screws ⑪ and PWB Ass'y unit.

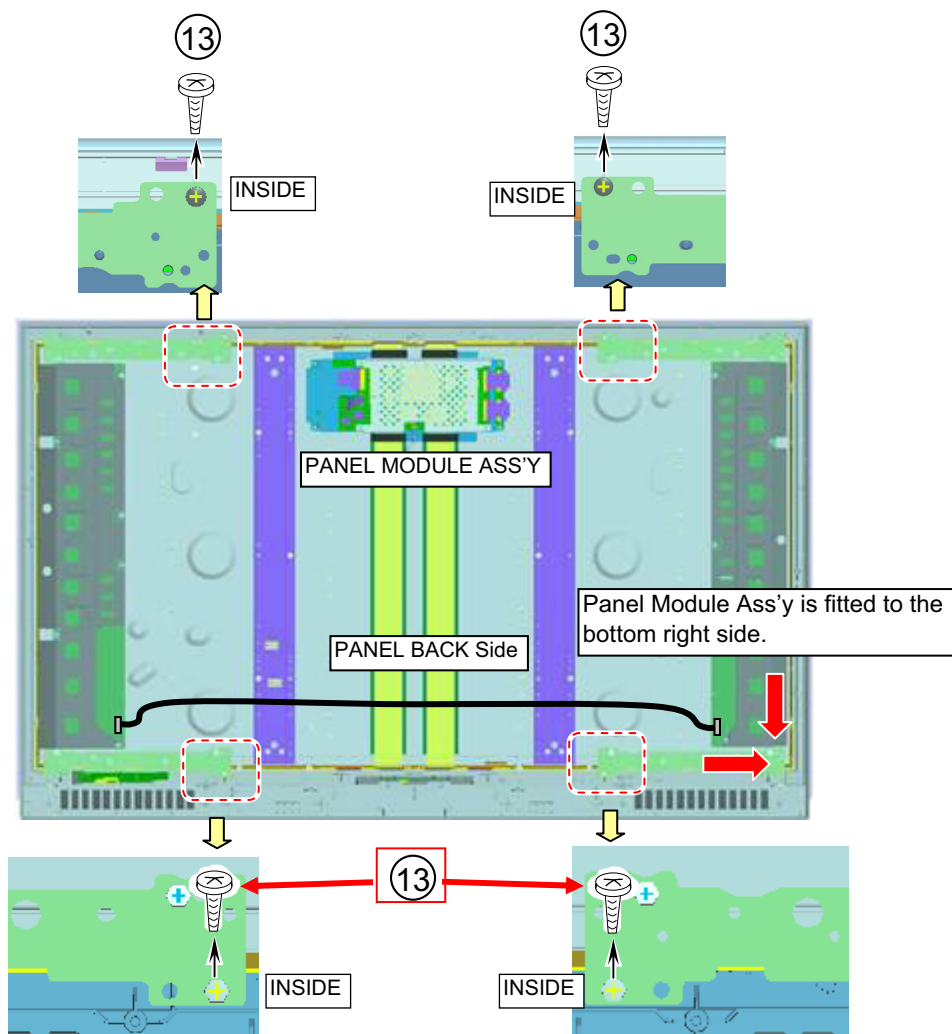




15. Remove the 8 lock screws (12) and detach the FRC PWB Angle.

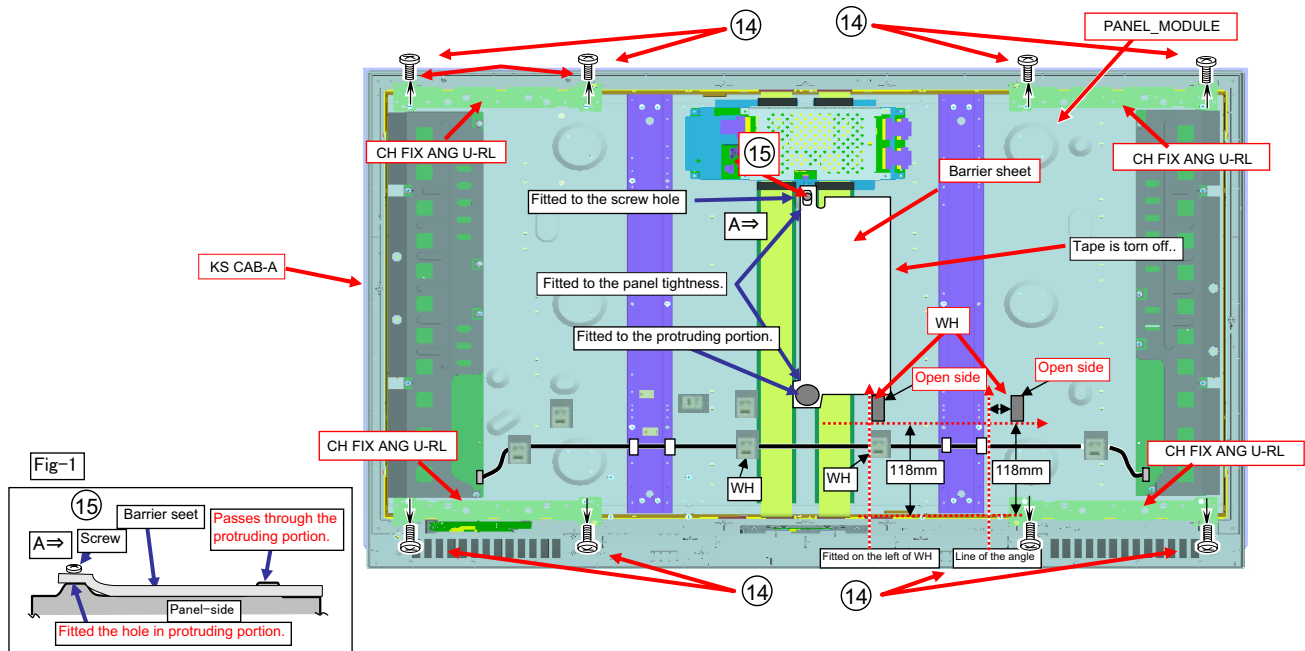


16. Remove the 4 lock screws (13) and detach the Panel Module Ass'y.

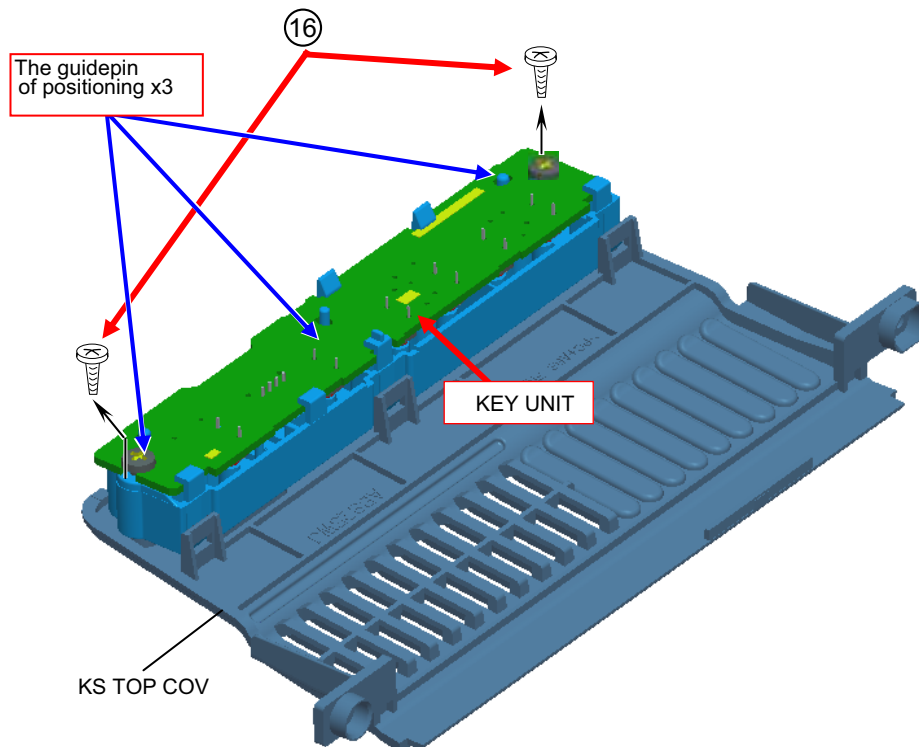


17.Remove the 8 lock screws (14) , and detach the Chassis Fix Angles.

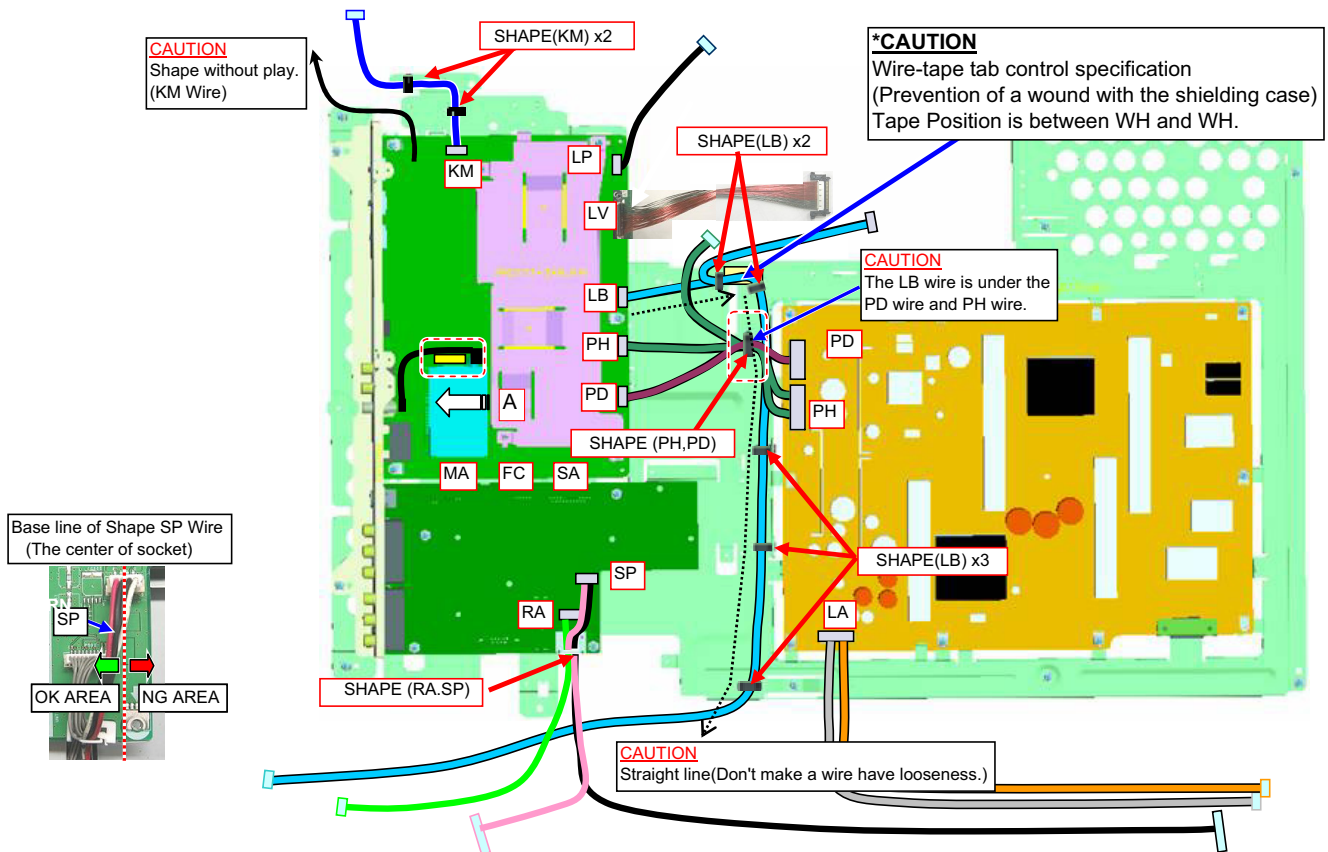
18.Remove the 1 lock screw (15) , and detach the Barrier sheet.



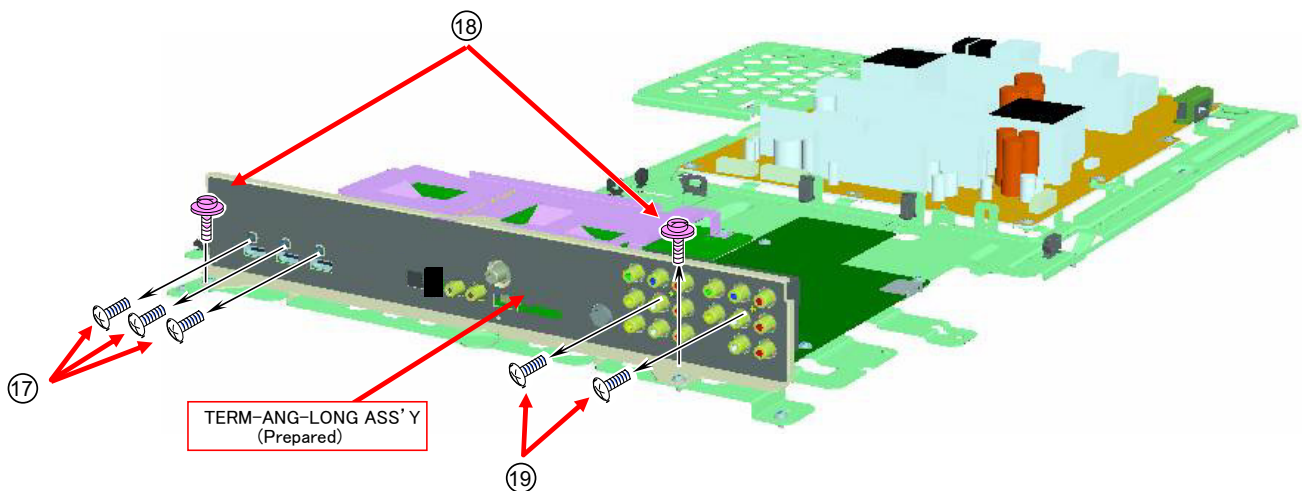
19.Remove the 2 lock screws (16) , and detach the Key Unit.



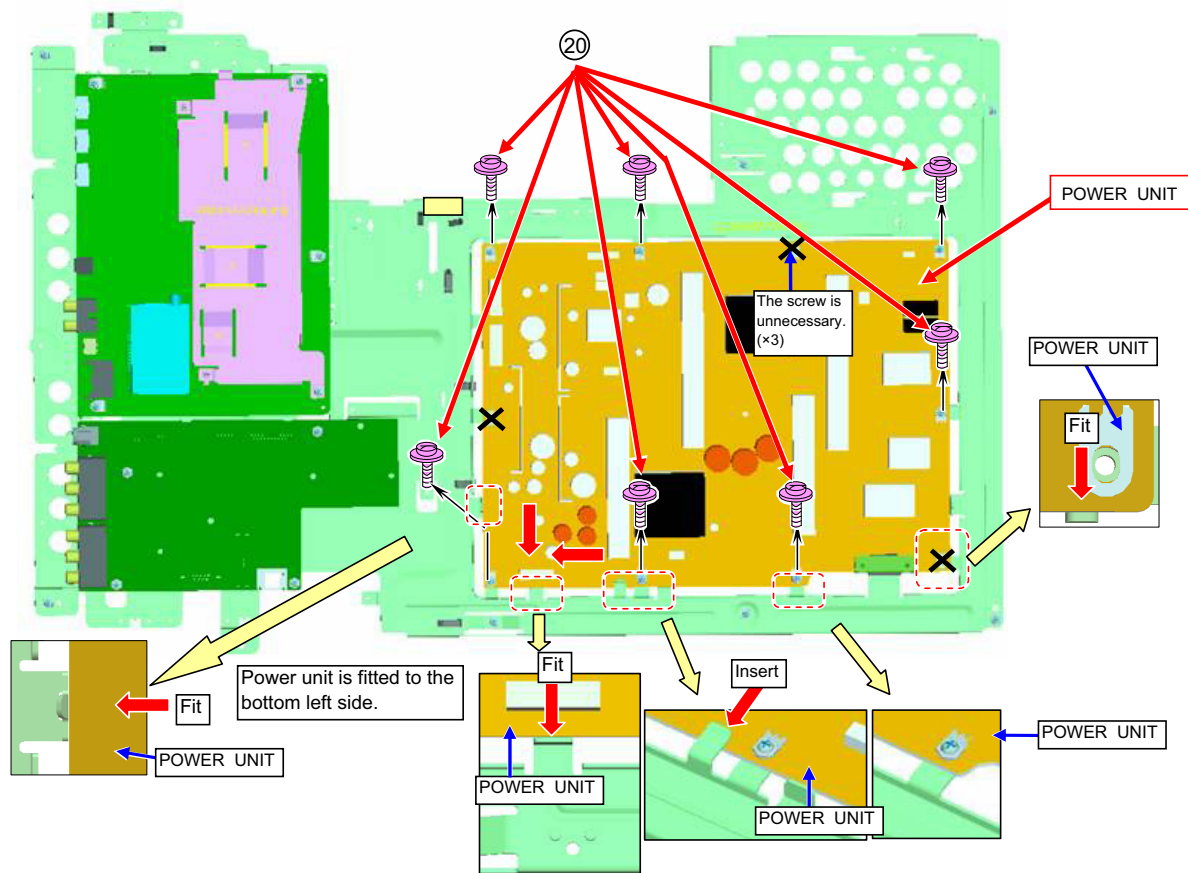
20. Remove all the connectors from PWBs.



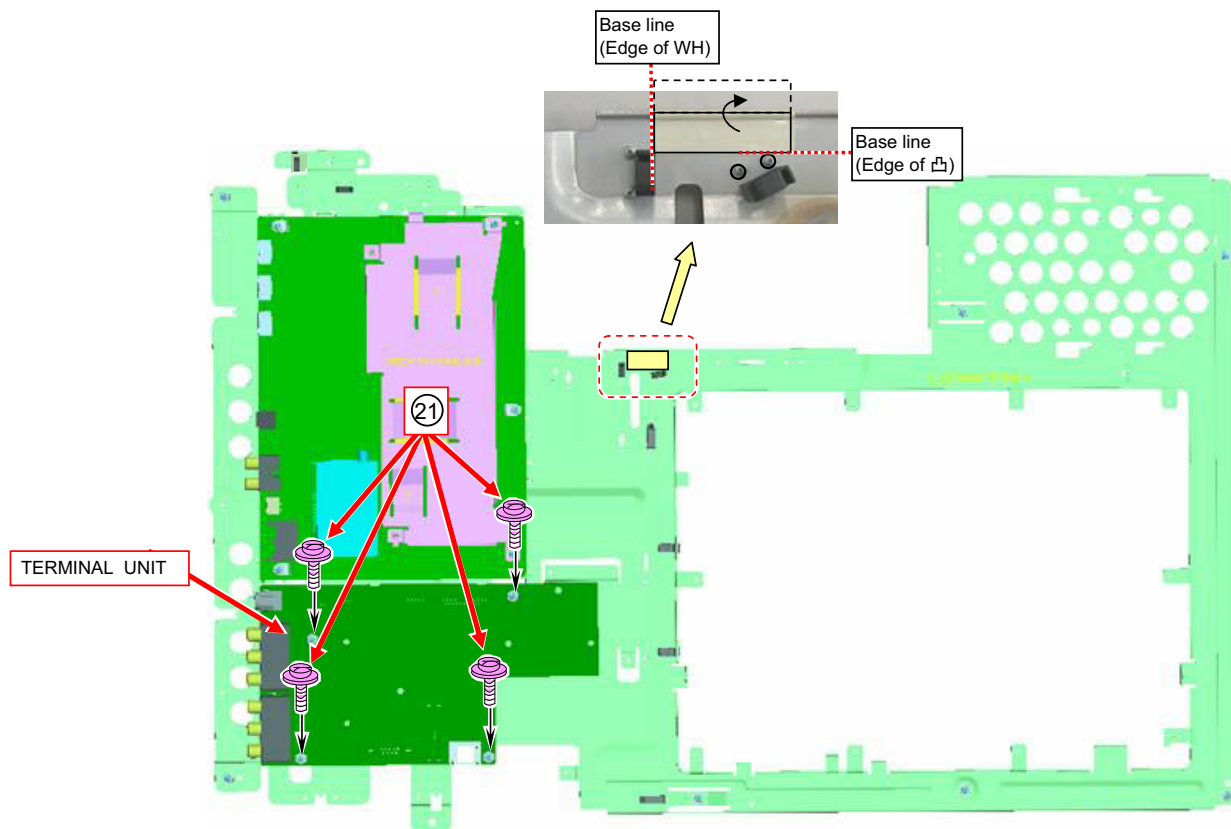
21. Remove the 7 lock screws (17), (18) and (19), and detach the AV Terminal Angle Ass'y.



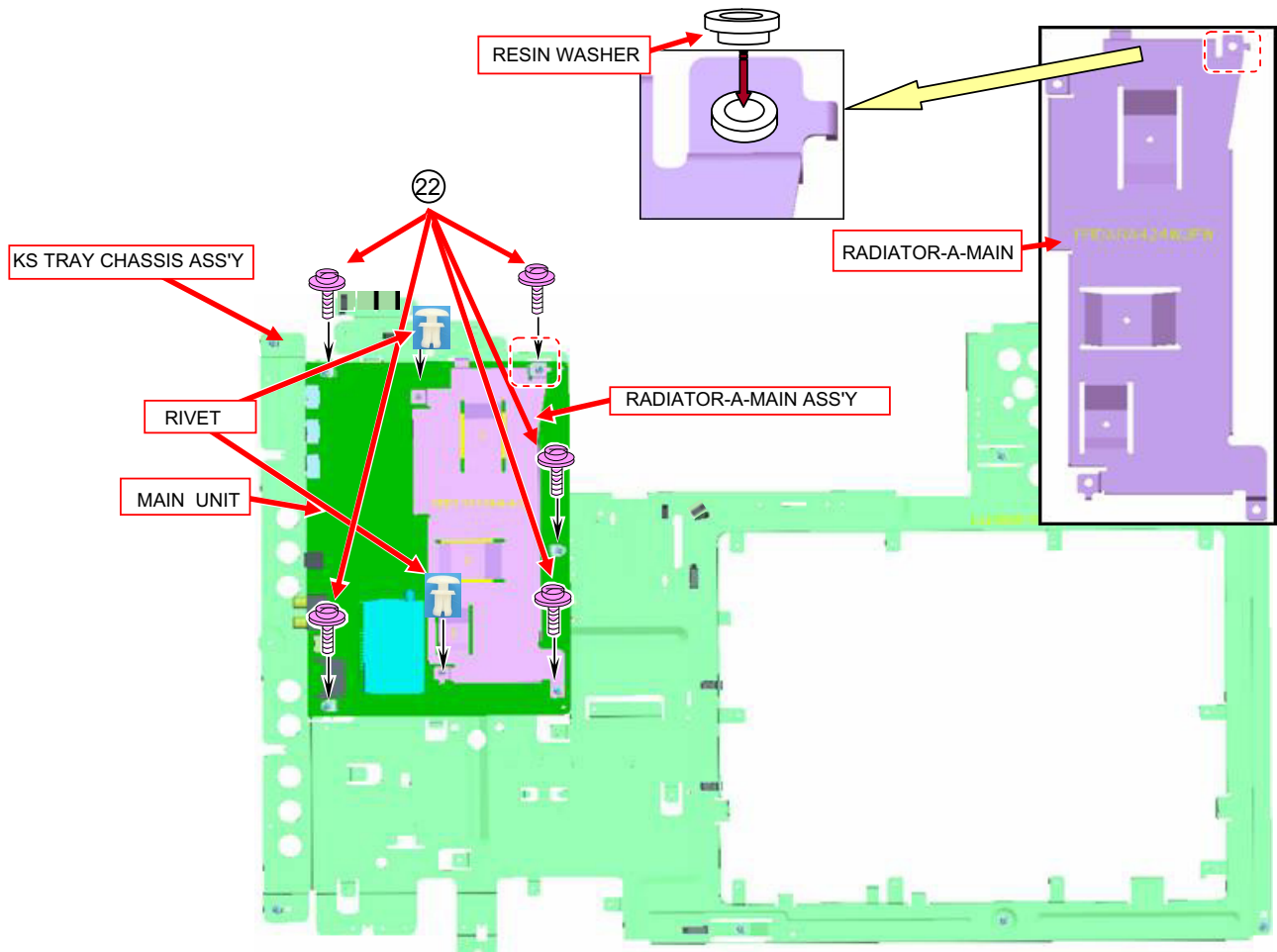
22.Remove the 7 lock screws (20) and detach the Power unit.



23.Remove the 4 lock screws (21) and detach the Terminal unit.



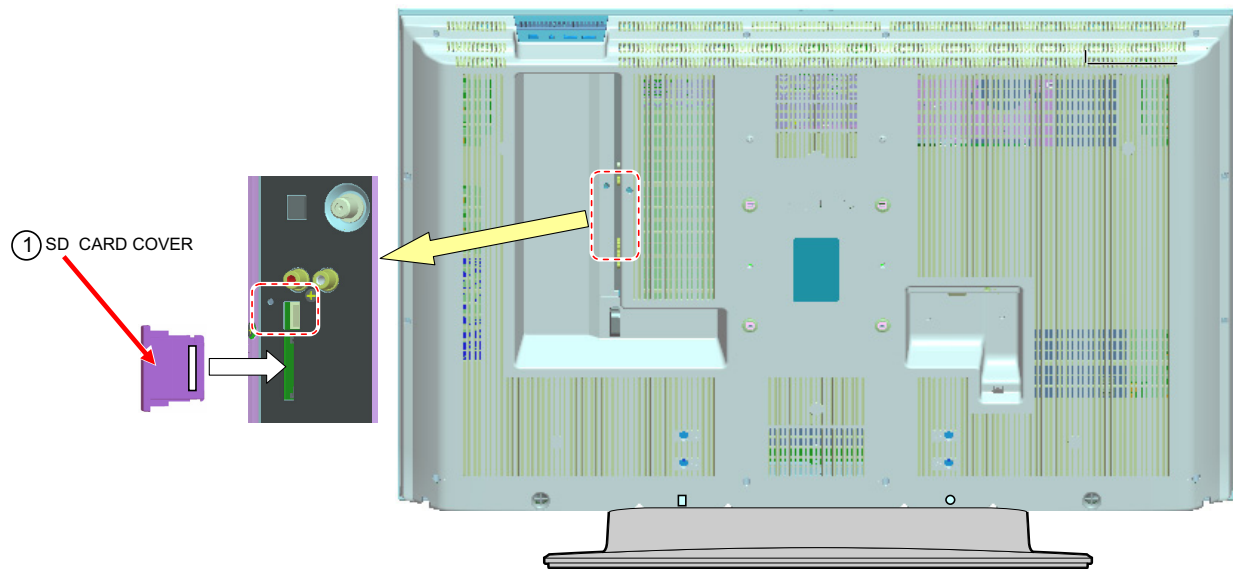
24. Remove the 5 lock screws ②② and 2 lock rivets detach the Main unit and Radiator A Main.



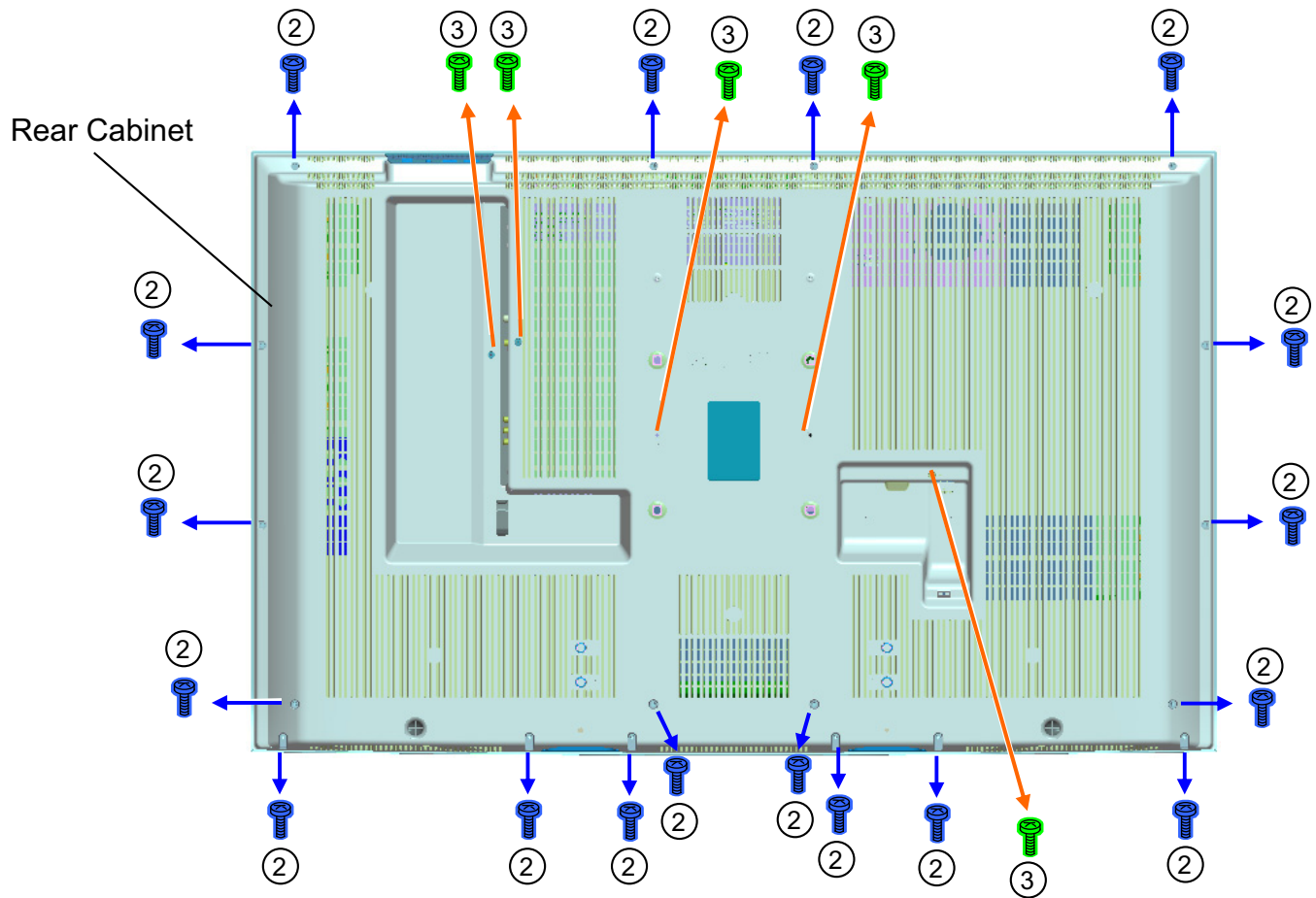


## [2] REMOVING OF MAJOR PARTS (LC-52D82U)

1. Detach the SD Card Cover ①

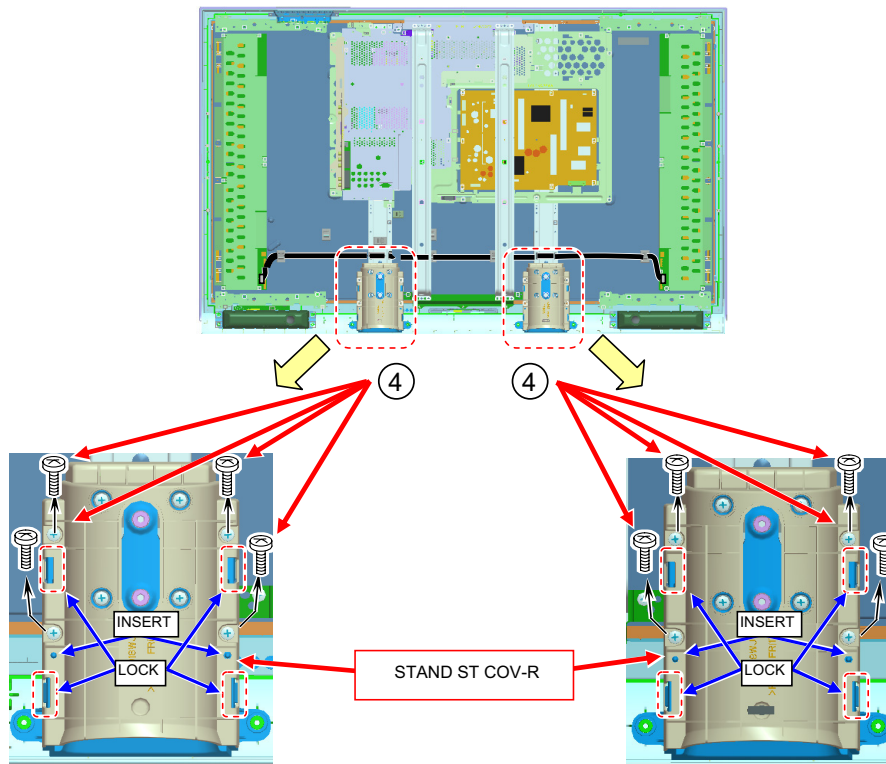


2. Remove the 18 lock screws ② .
3. Remove the 5 lock screws ③ and detach the Rear Cabinet.

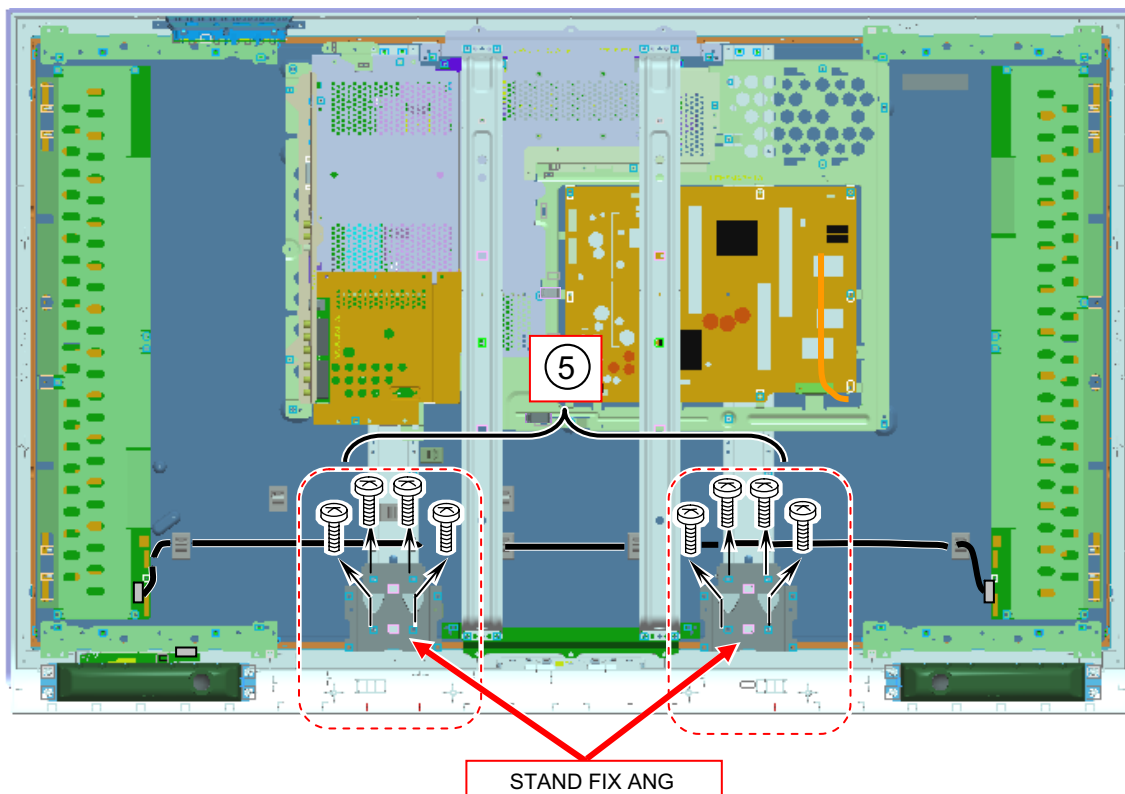




4. Remove the 8 lock screws ④ and detach the Stand Set Cover.

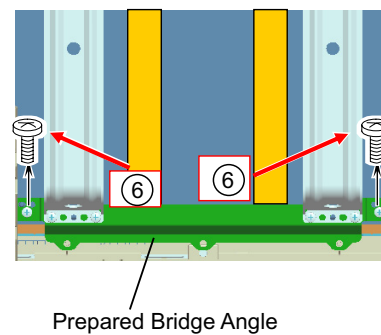
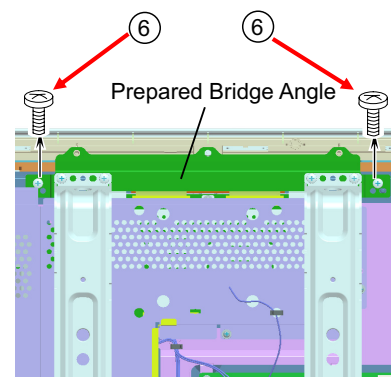
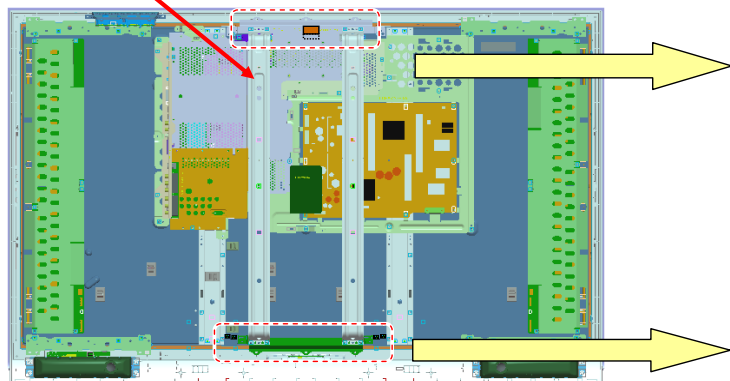


5. Remove the 8 lock screws ⑤ and detach the Stand Fix Angle.

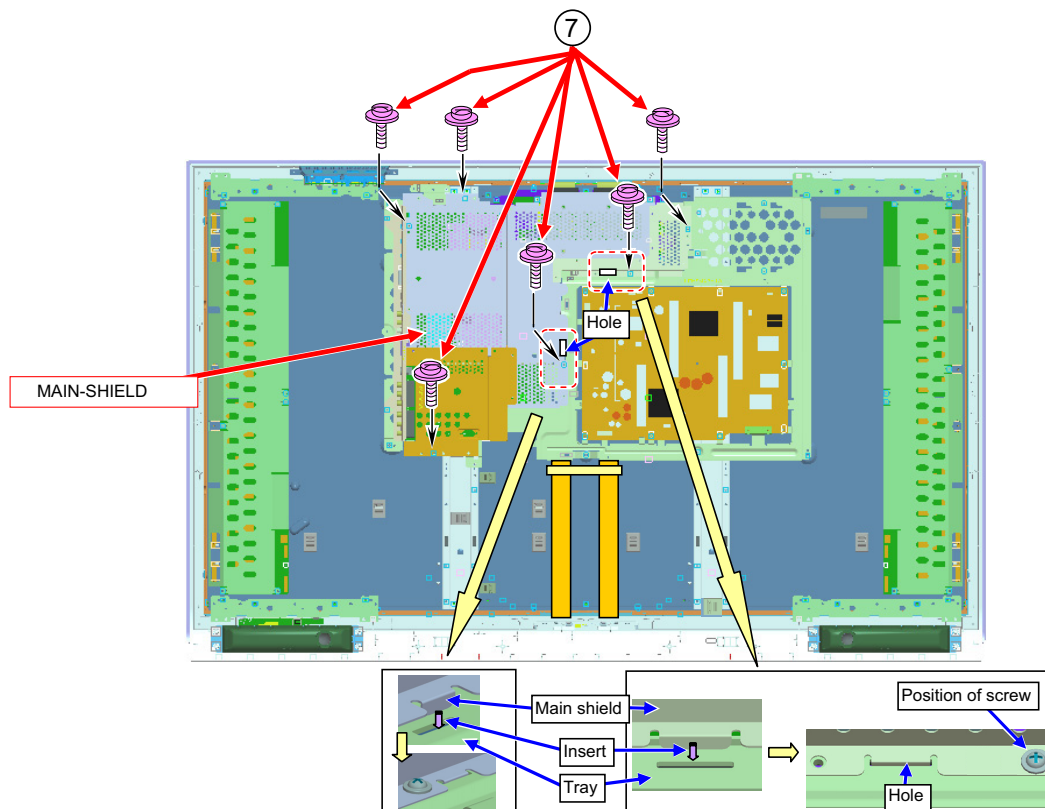


6. Remove the 4 lock screws ⑥ and detach the Bridge Angle Ass'y.

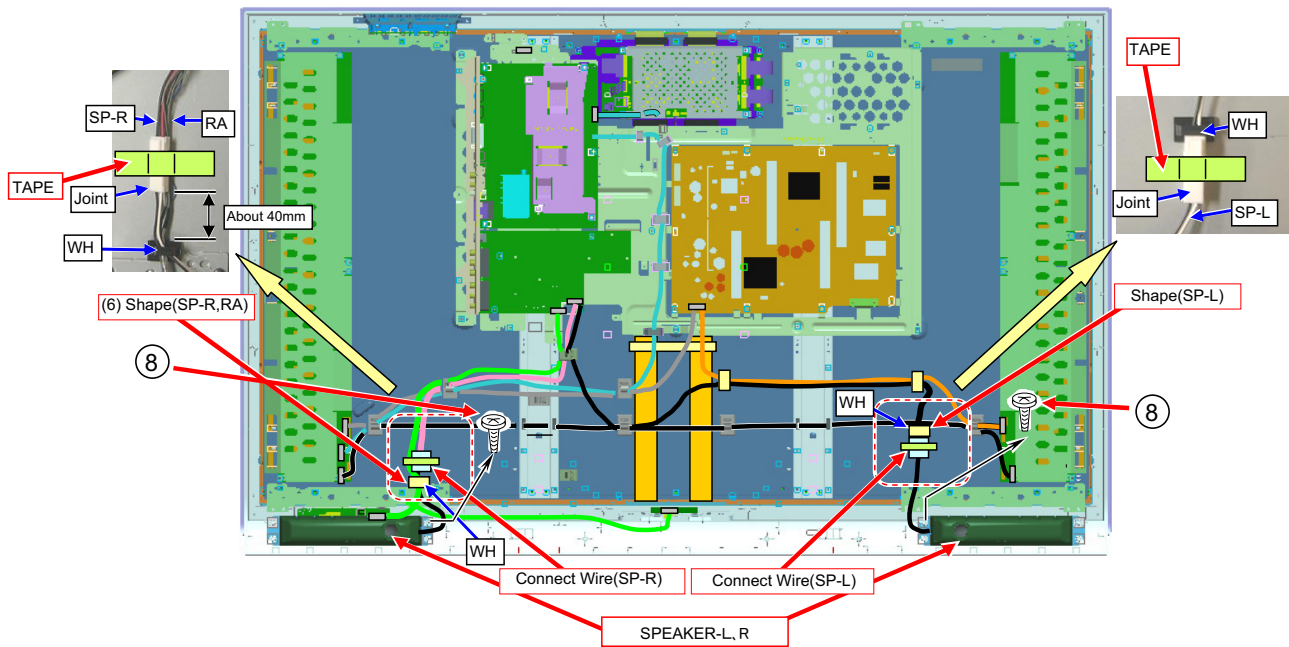
PREPARED BRIDGE ANGLE



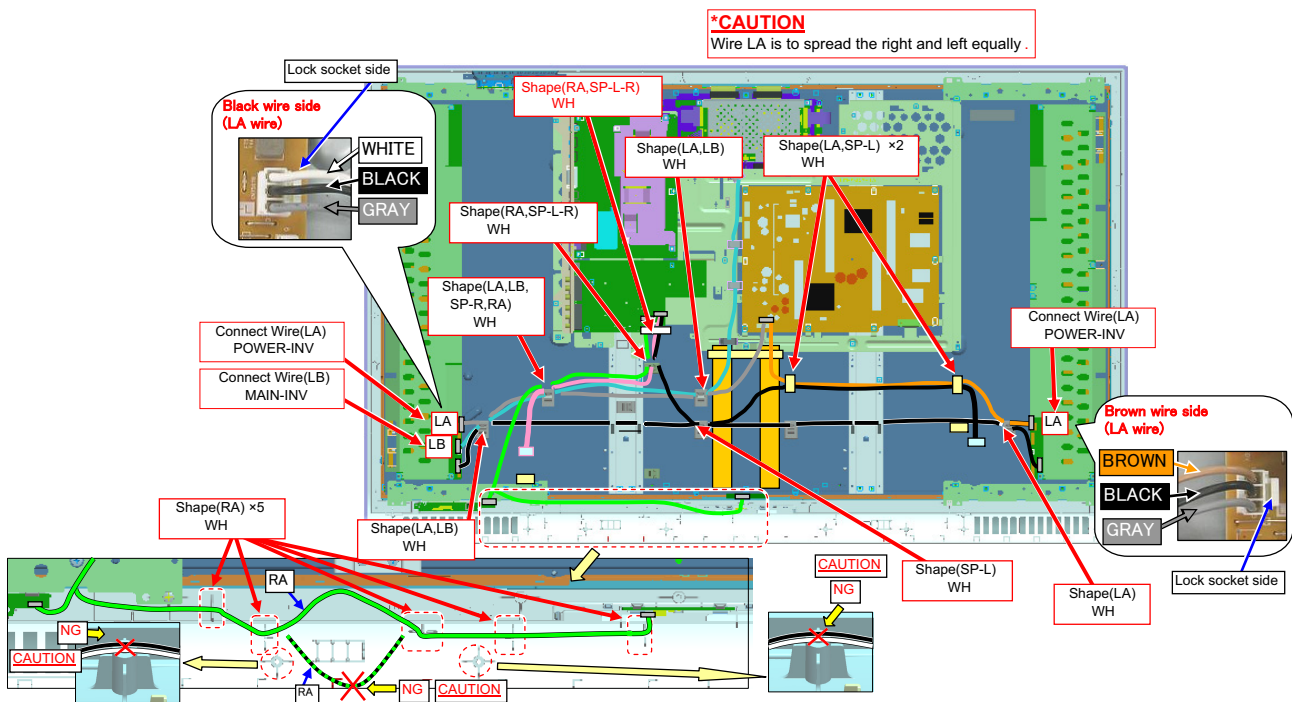
7. Remove the 6 lock screws ⑦ and detach the Main Shield.



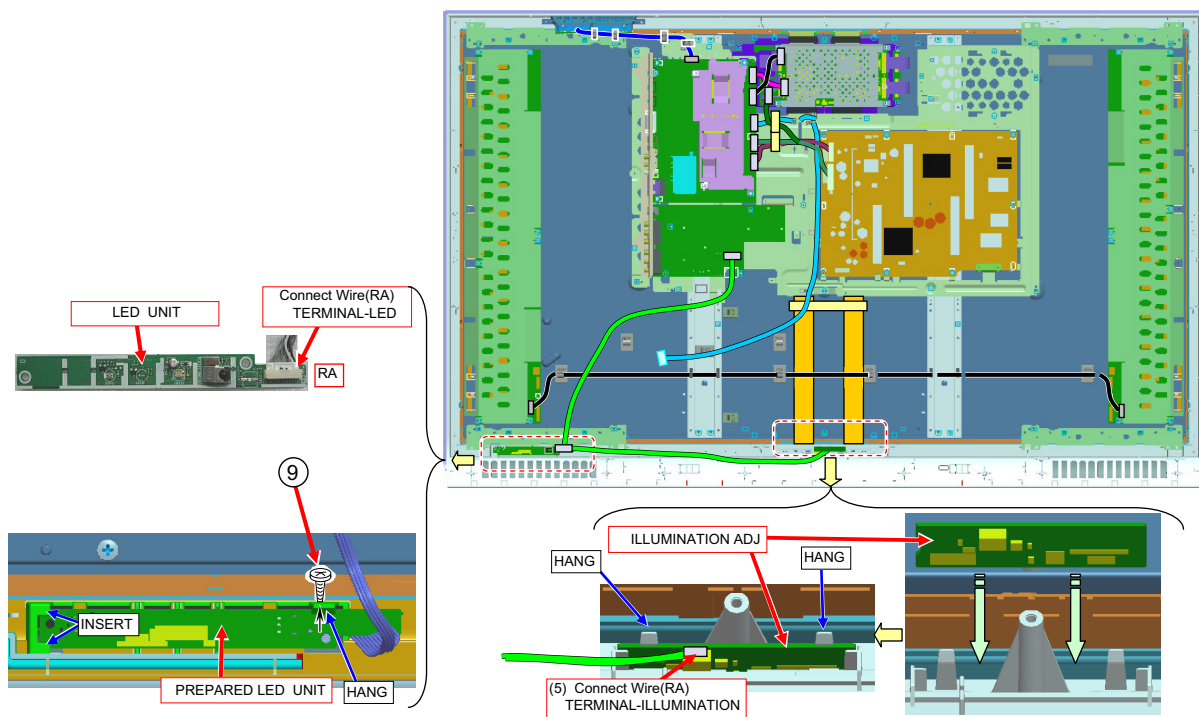
8. Remove the 2 lock screws ⑧ and detach the Speaker-L/R.



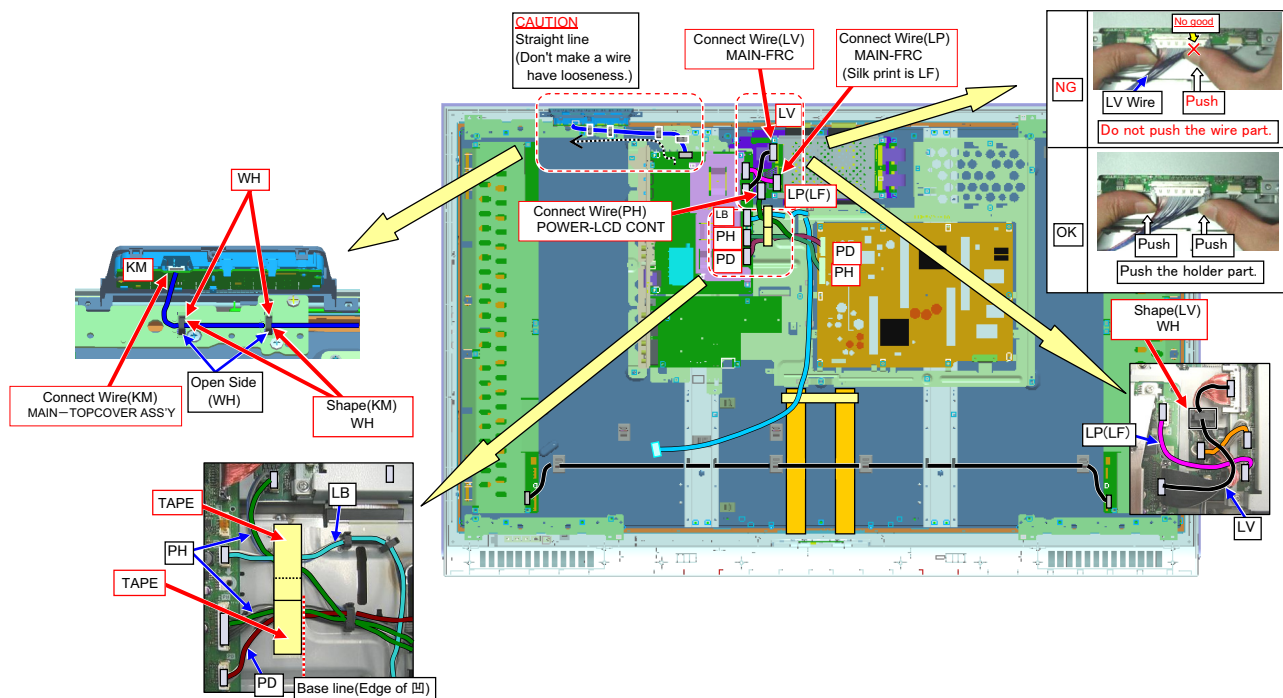
9. Remove all the connectors from PWBs.



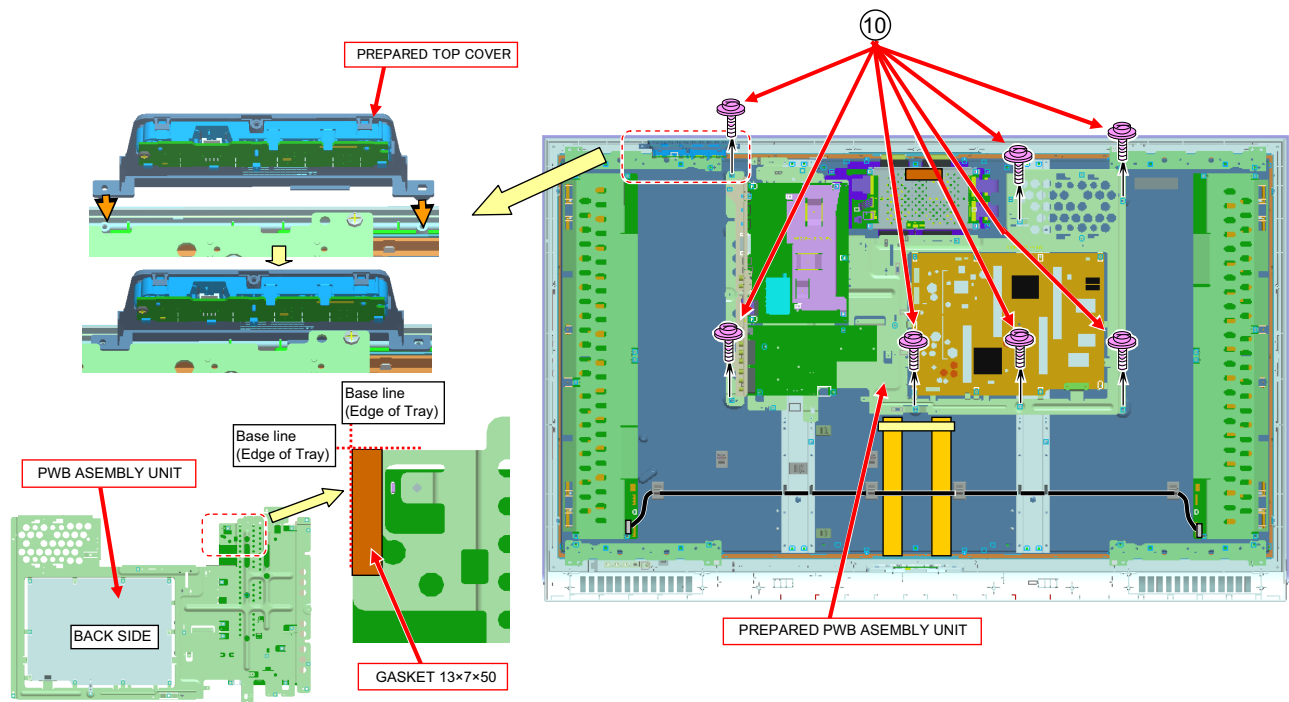
10. Remove the 1 lock screw ⑨ and detach the LED Unit.



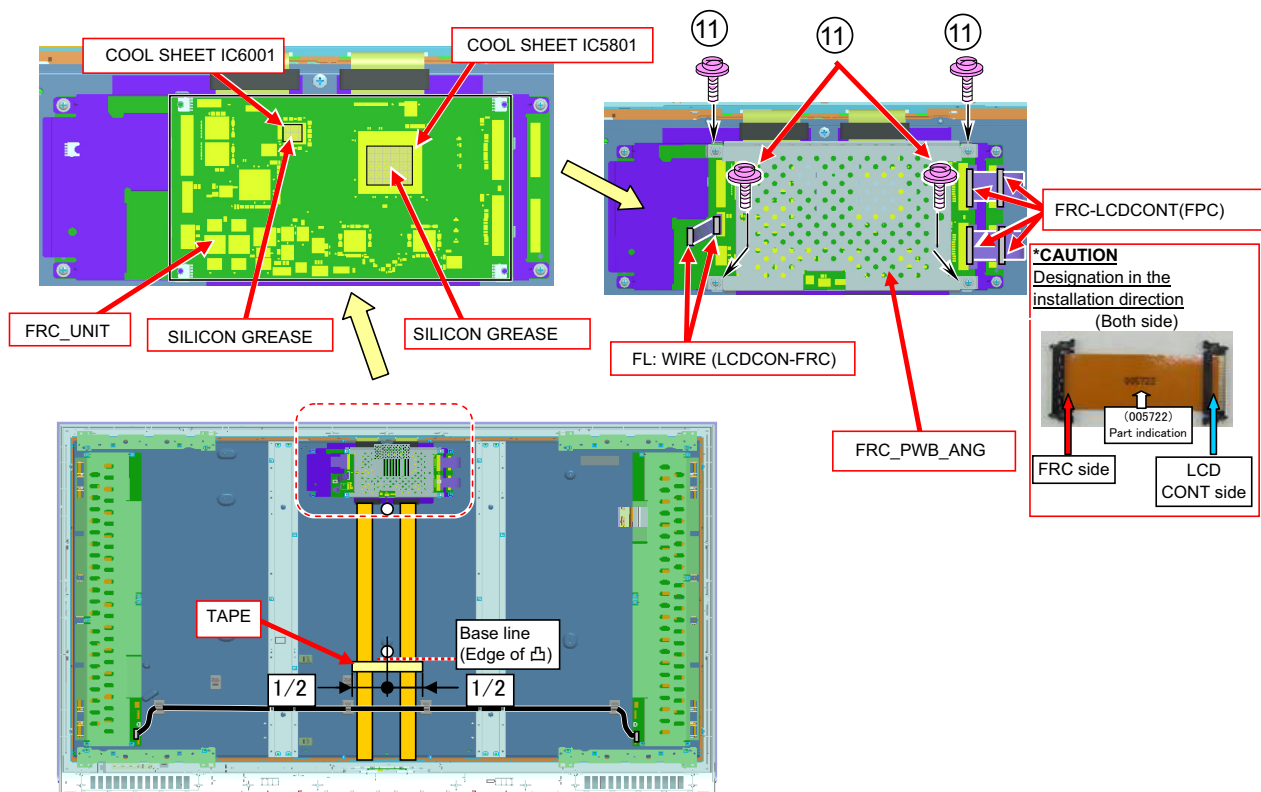
11. Remove all the connectors from PWBs.



12. Remove the 7 lock screws ⑩ and PWB Ass'y unit.

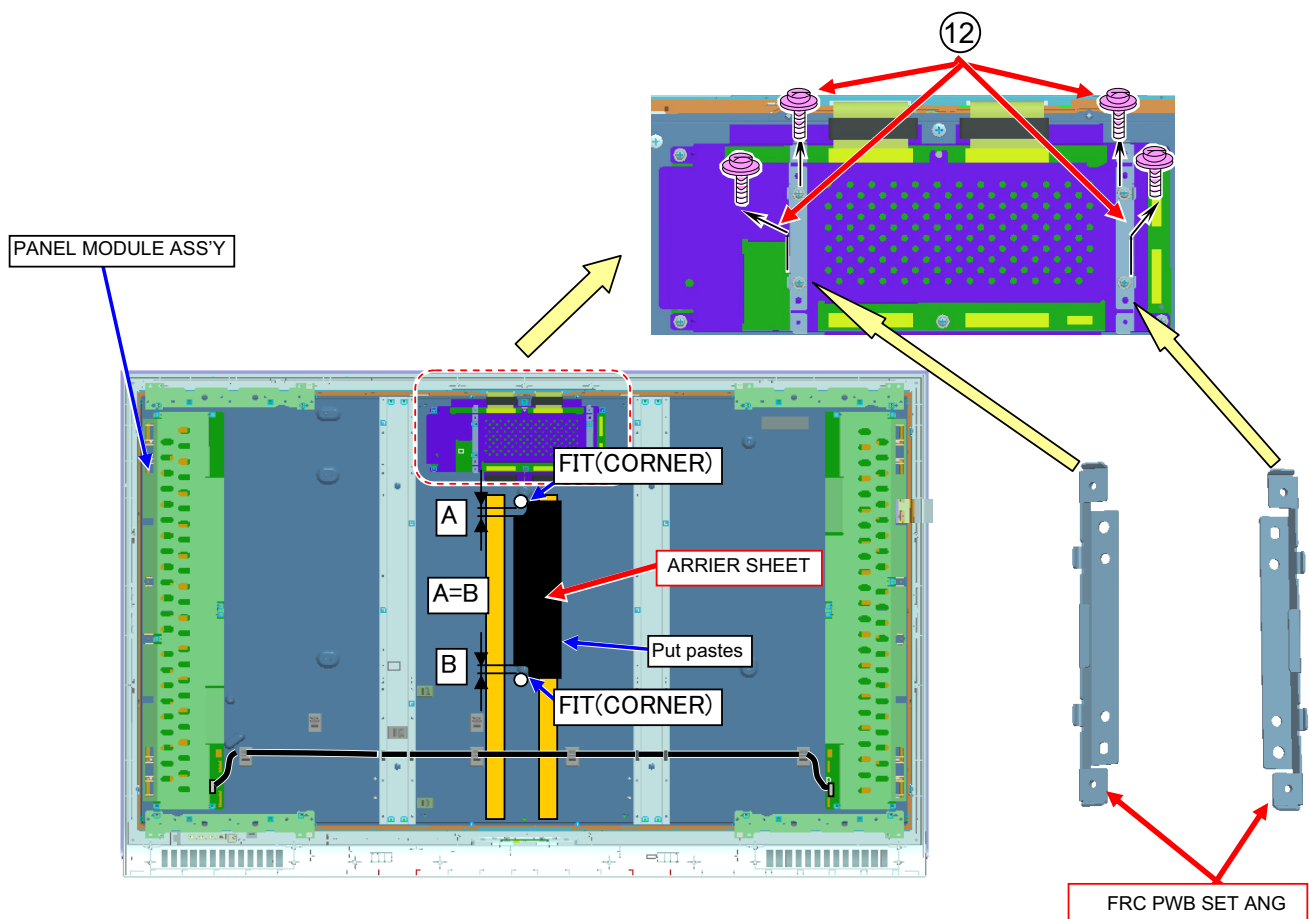


13. Remove the 4 lock screws ⑪ and detach the FRC PWB Angle.

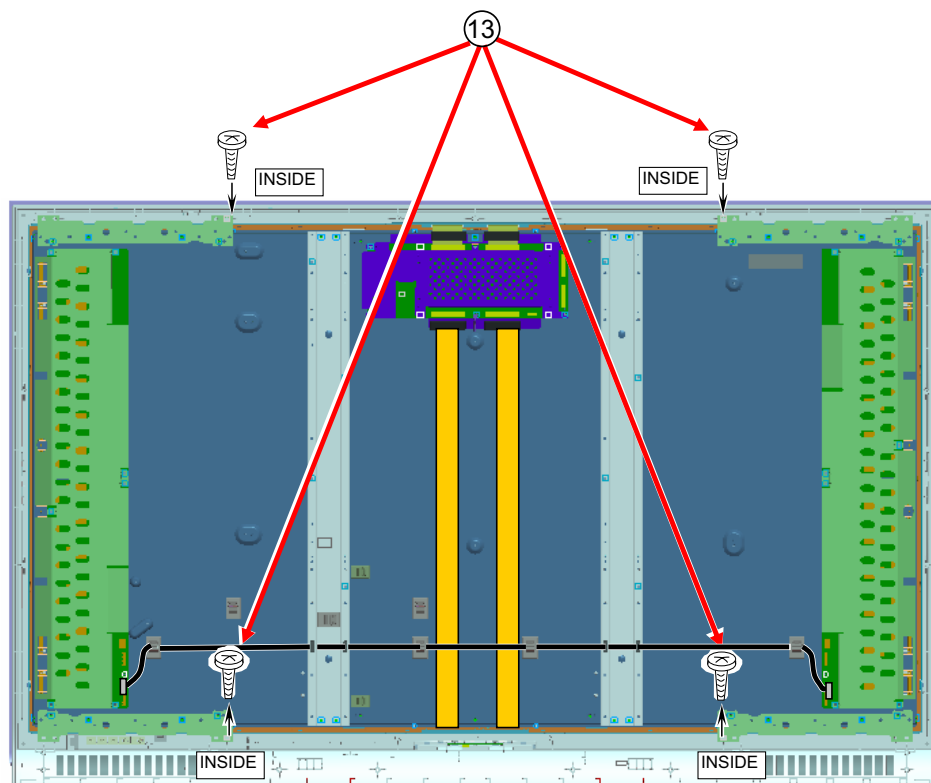




14. Remove the 4 lock screws ⑫ and detach the FRC PWB Set Angle.

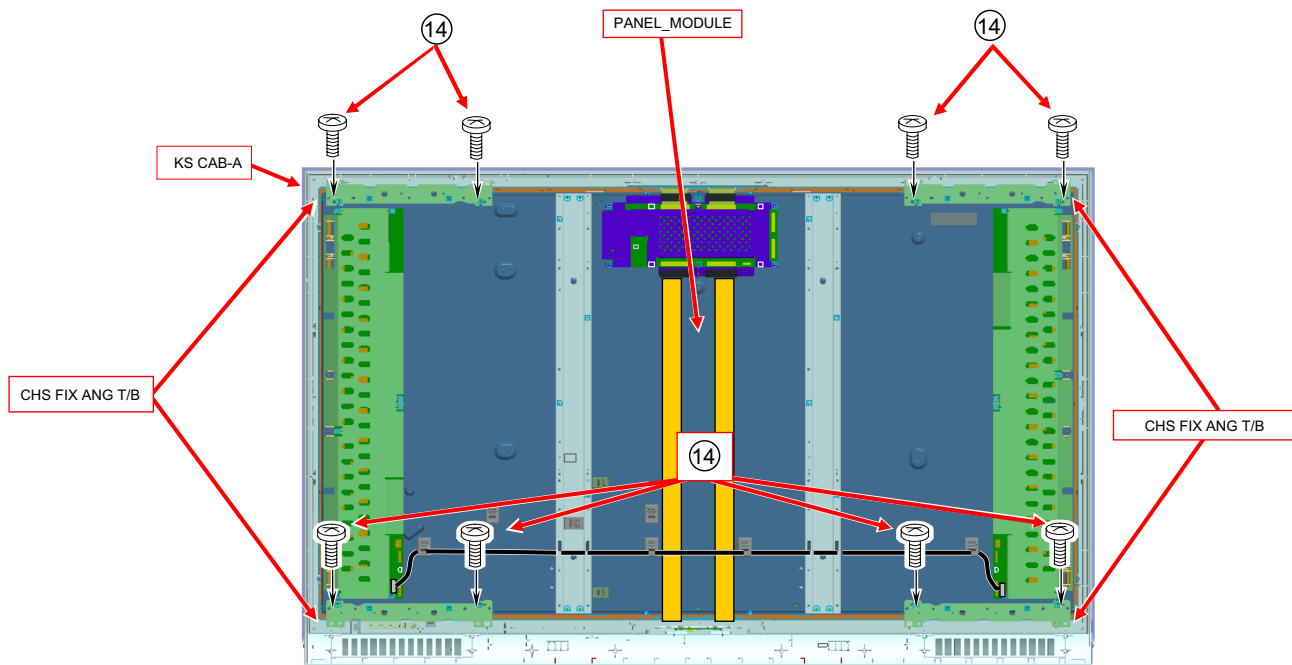


15. Remove the 4 lock screws ⑬ and detach the Panel Module Ass'y.

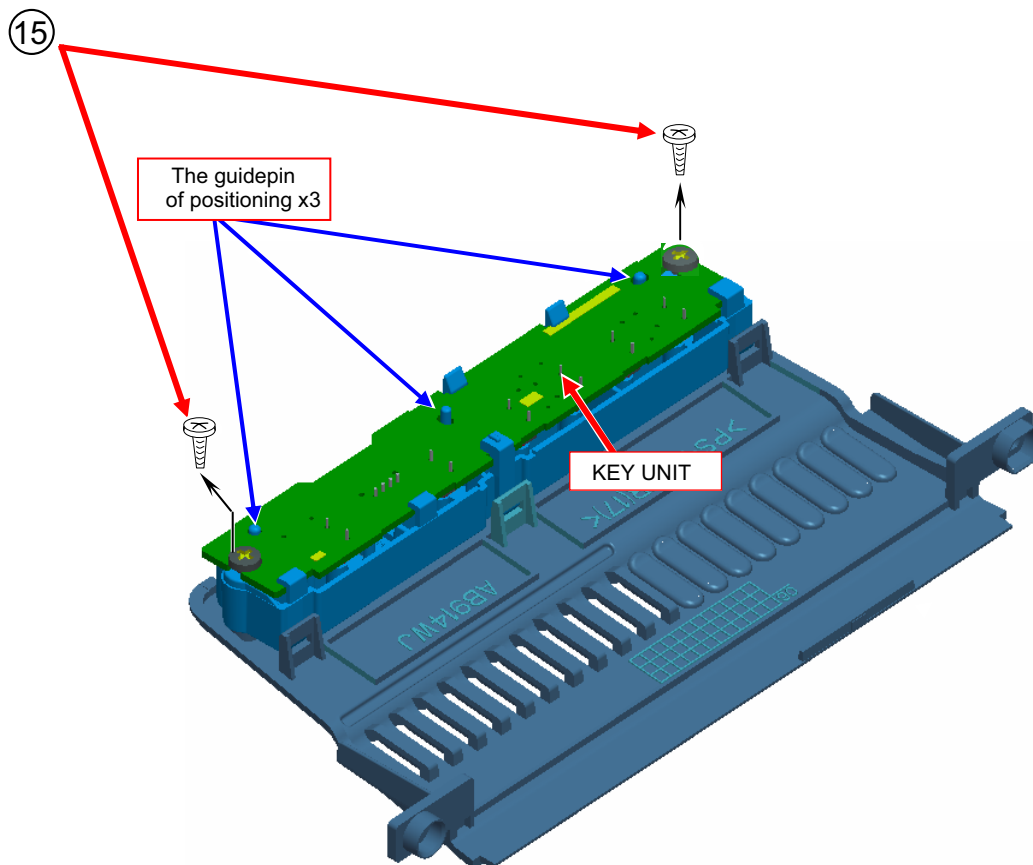


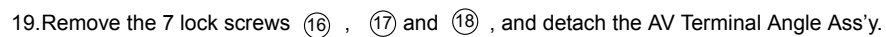


16. Remove the 8 lock screws ⑭ and detach the Chassis Fix Angle Top/Bottom.

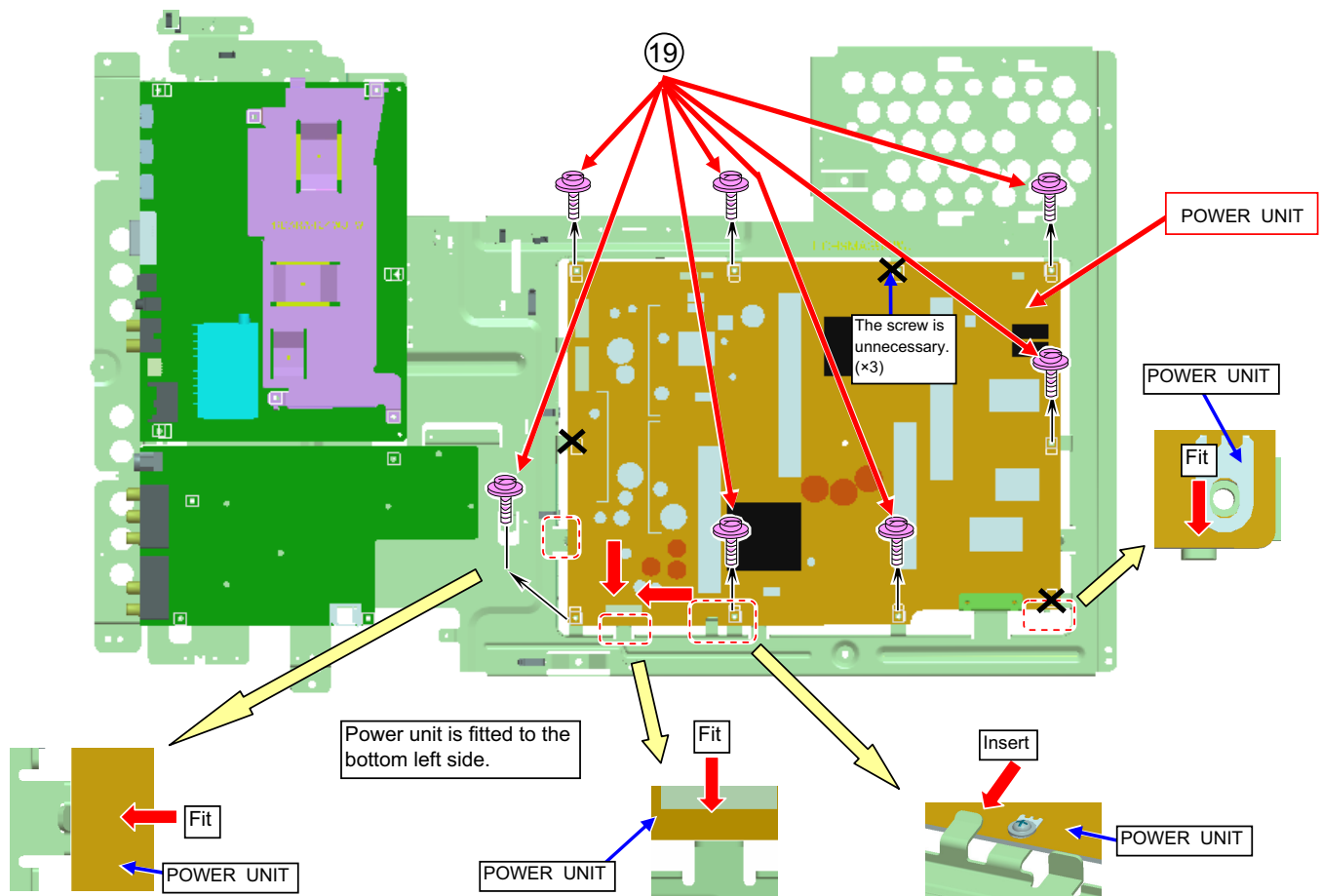


17. Remove the 2 lock screws ⑮, and detach the Key Unit.

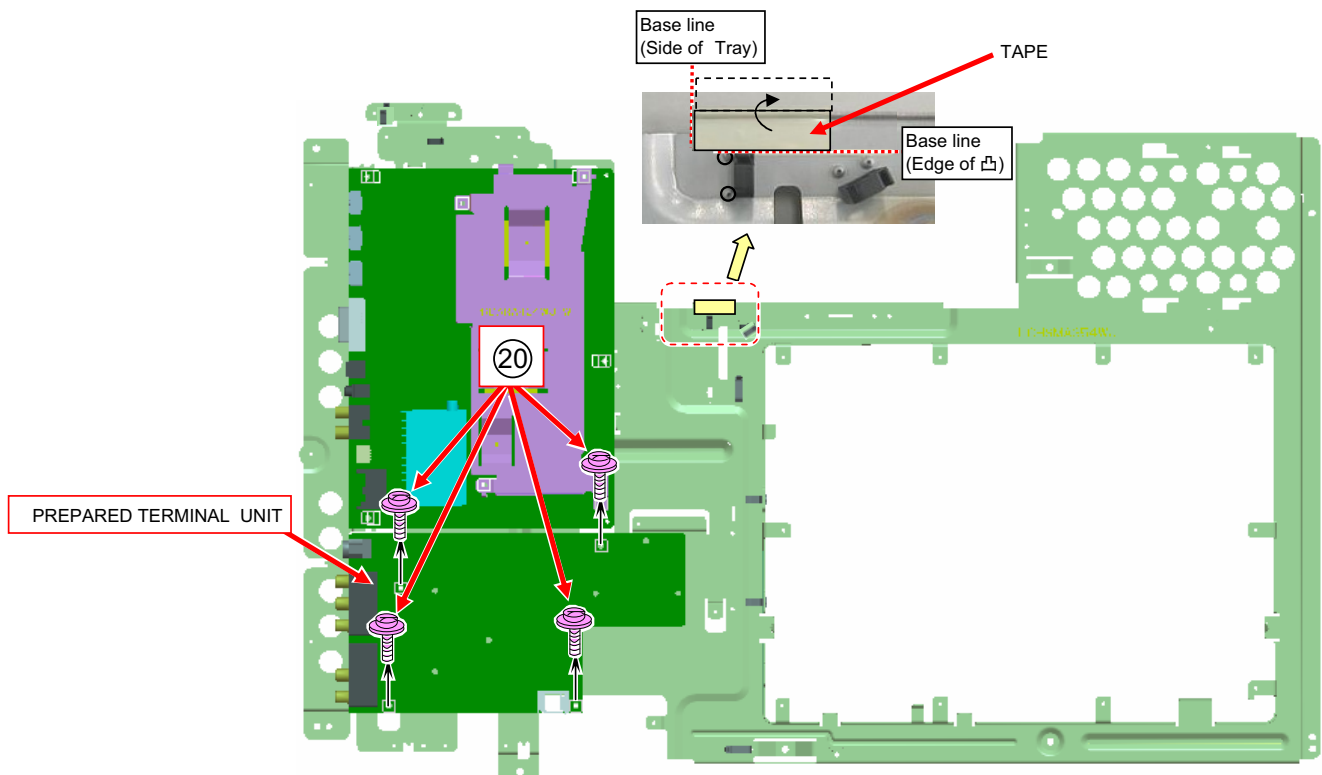




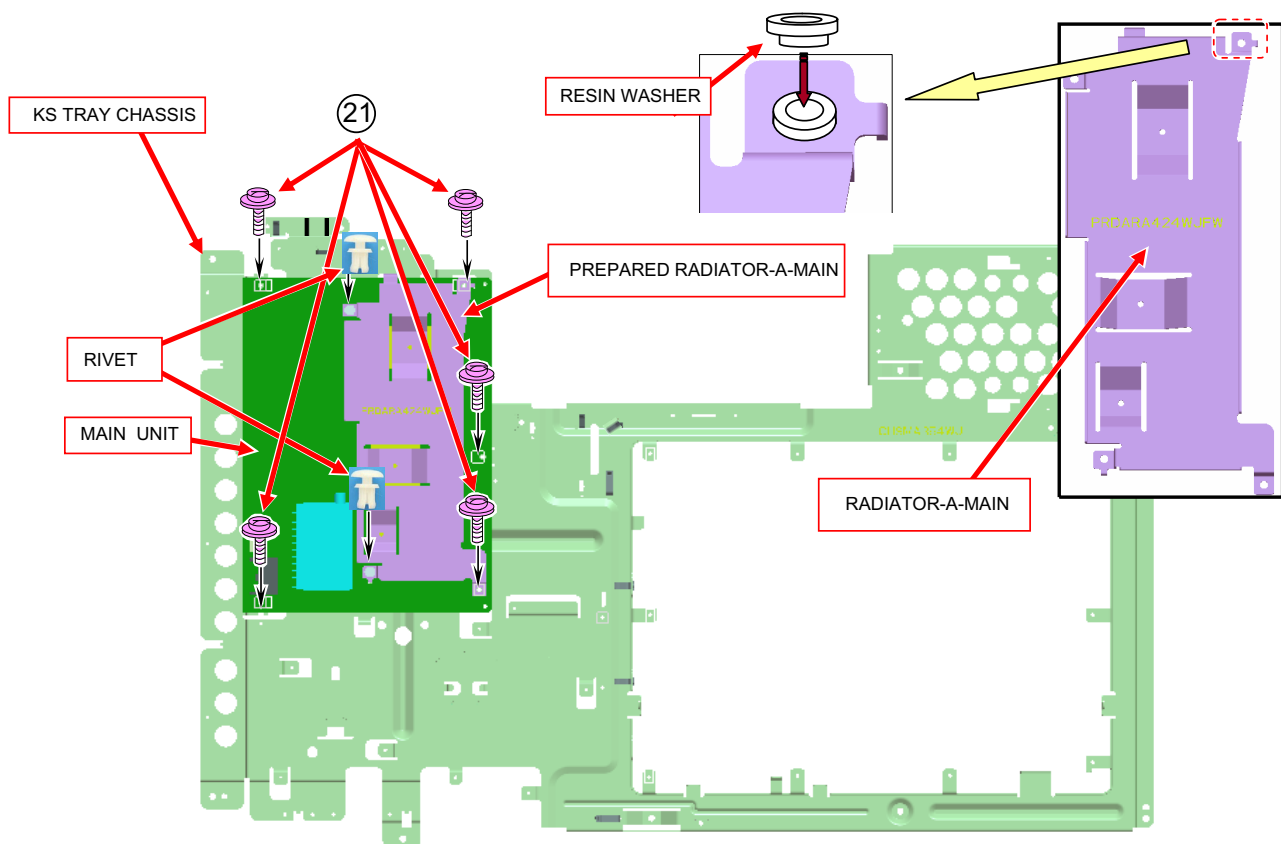
20. Remove the 7 lock screws (19) and detach the Power unit.



21. Remove the 4 lock screws (20) and detach the Terminal unit.



22. Remove the 5 lock screws ②① and 2 lock rivets detach the Main unit and Radiator A Main.



## CHAPTER 3. ADJUSTMENT

### [1] ADJUSTMENT PROCEDURE

The adjustment values are set to the optimum conditions at the factory before shipping. If a value should become improper or an adjustment is required due to part replacement, make an adjustment according to the following procedure.

#### 1. After replacement of any PWB unit and/or IC for repair, please note the following.

When replacing the MAIN unit, make sure to prepare the new units loaded with updated software.

#### 2. Upgrading of each microprocessor software

CAUTION: Never "POWER OFF" the unit when software upgrade is ongoing.

Otherwise the system may be damaged beyond recovery.

##### 2.1. Software version upgrade

The model employs the following software.

- Main software
- Monitor microprocessor software

The main software and the monitor microprocessor software can be upgraded by using a general-purpose SD memory card.

The followings are the procedures for upgrading, explained separately for each of the main software, the monitor microprocessor software.

##### 2.2. Main software version upgrade

###### 2.2.1 Get ready before you start

- SD memory card of 32MB or higher capacity
- PC running on Windows 98/98SE/ME/2000/XP operating system
- SD memory card reader/writer with USB connectivity
- SD memory card formatting software

(Downloadable at [http://panasonic.jp/support/audio/sd/download/sd\\_formatter\\_e.html](http://panasonic.jp/support/audio/sd/download/sd_formatter_e.html))

###### 2.2.2 Preparations

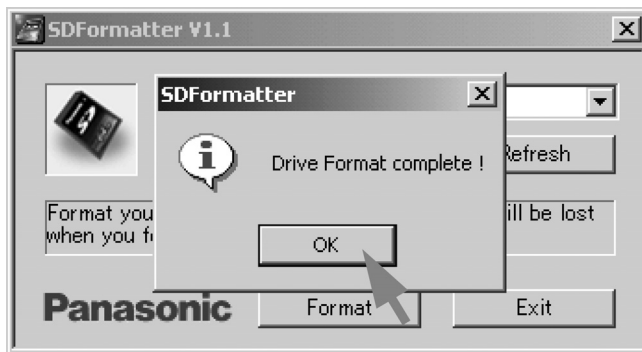
To upgrade the main software, it is necessary to get ready the SD card for version upgrade before you start. Follow the steps below and create the SD card for version upgrade.

1. Insert the SD card into the SD card reader/writer. Start the SD card formatting software. Click [Format]. (When you have the drive options, select the drive where the SD card is inserted before you proceed.)



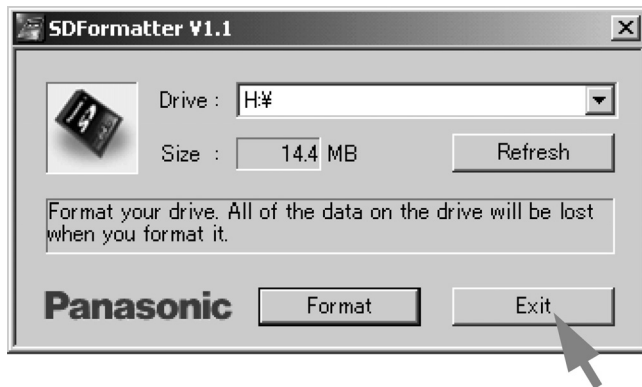


2. When the formatting is over, the following window appears. Click [OK].



3. Click [Exit] to finish the formatting.

NOTE: When you are done, take out the SD card once to make sure it is finished, and then insert it again.



4. Copy the binary image file D82UAxxx.SDC (named temporarily) for version upgrade to the root directory (folder) of the SD card drive.

NOTE: In the SD card drive, do not store other folders or unrelated files, or more than one binary image files for version upgrade.

Now the SD card for version upgrade is ready.

### 2.2.3 Upgrading the software

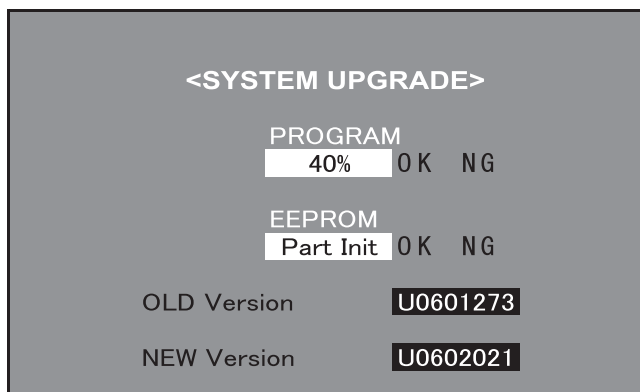
1. Turn off the AC power (Unplug the AC power cord).

2. Insert the upgrading SD card (prepared as instructed above) into the service slot.

NOTE: Be careful not to insert the SD card in the wrong way. Otherwise the card may come into the set and fail to come out.

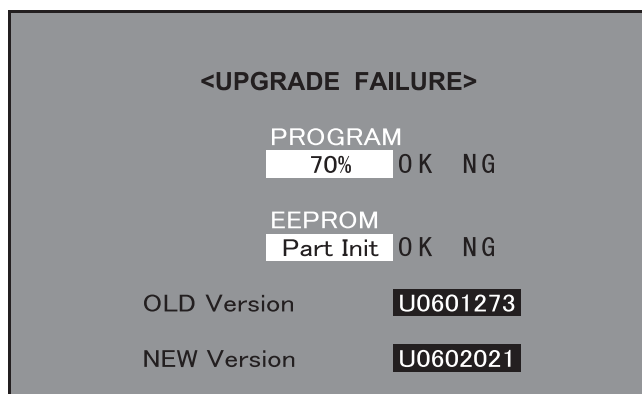
3. Turn on the AC power (Plug in the AC power cord).

4. A couple to dozen seconds after the set starts, the upgrade screen below shows up.

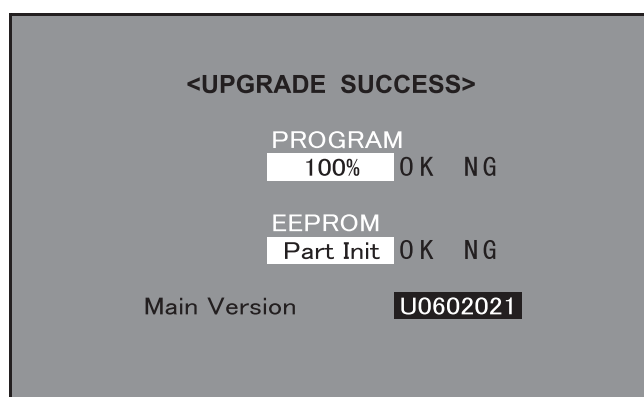


5. If any of the procedures fails, the following upgrade failure screen shows up. For the failing procedure, the "NG" marking turns red.

NOTE: In such case, try to upgrade the software again. If it still fails, the hardware may be in trouble.



6. When all the procedures are complete, the following upgrade success screen shows up. The new software version can be confirmed on screen. The version number appears when each item has been successfully upgraded. Finally the main version number appears on screen.



7. Turn off the AC power (Unplug the AC power cord). Take out the upgrading SD card.

8. Now the software has been upgraded.

NOTE: Then get the set started and call the process adjustment screen 1/27 to check the main software version.

CAUTION: 1) Do not take out and put in the SD memory card during formatting.

2) With the SD formatted, all the data stored on the medium will be deleted.

3) Do not start the SD formatting with the memory card's WRITE PROTECT switch still on.

4) If the SD memory card format software does not recognize the SD memory card, take out and put in the SD memory card again, and click the "UPDATE" button.

5) After checking the performance, use the set under its interface environment.

6) The SD formatting is impossible on drives that are not recognized "REMOVABLE".

## 2.3. Upgrading the monitor microprocessor software

### 2.3.1 Kit

Have the above "Upgrading the main software" kit or equivalent at hand.

### 2.3.2 Preparations

As discussed in "Upgrading the main software" earlier, create the SD card for upgrading the monitor microprocessor software. For this SD card, use the monitor microprocessor upgrading binary image file.

### 2.3.3 Upgrading procedure

To follow the monitor microprocessor software upgrading, the monitor screen upgrade progress indicator and the flashing power LED indicator can be used.

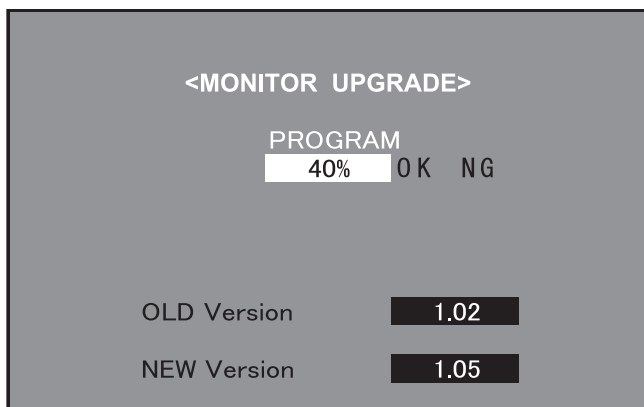
1. Turn off the AC power (Unplug the AC power cord).

2. Insert the upgrading SD card (prepared as instructed above) into the service slot at the back of the set. Insert the SD card with its logo-printed face upward (visible). Be careful not to insert the SD card in the wrong way. Otherwise the card may come into the set and fail to come out.

3. Turn on the AC power (Plug in the AC power cord).

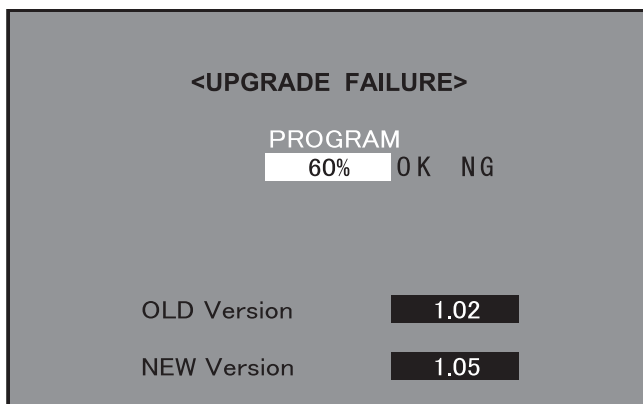
CAUTION: Now the monitor microprocessor software starts getting upgraded. Be very careful not to turn off the power while the software is being upgraded. Otherwise the software will fail to upgrade itself and the set will fail to get started.

4. A couple to dozen seconds after the set starts, the upgrade screen below shows up. The upgrade progress is indicated on screen. The power LED indicator goes out once and then starts flashing in blue. (It takes 2-3 minutes to get the monitor microprocessor software upgraded.)

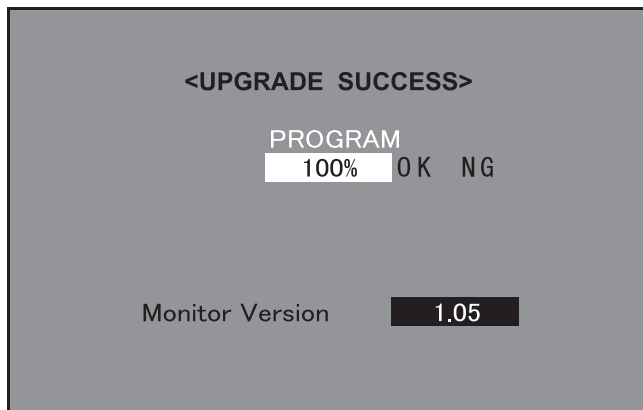


5. If the procedure fails, the following upgrade failure screen shows up and the "NG" marking turns red. The power LED indicator fails to start flashing in blue. Even if the usual screen reappears in several seconds, do the procedure from Step "1" again.

NOTE: In case of failure, try to upgrade the software again. If it still fails, the hardware may be in trouble.



6. When the procedure is complete, the following upgrade success screen shows up. The new software version can be confirmed on screen. The upgrade success can also be confirmed when the power LED indicator and the OPC LED indicator start flashing alternately in blue and green, respectively. Double-check the upgrading and turn off the AC power (Unplug the AC power cord). Take out the upgrading SD card. Now the software has been upgraded.



Finally get the set started and call the process adjustment screen 1/27 to check the monitor microprocessor software version.

### 3. Entering and exiting the adjustment process mode

- 1) Before entering the adjustment process mode, the AV position RESET in the video adjustment menu.
- 2) While holding down the "VOL (-)" and "INPUT" keys at a time, plug in the AC cord of the main unit to turn on the power.  
The letter "<K>" appears on the screen.

- 3) Next, hold down the "VOL (-)" and "CH (V)" keys at a time.

(The "VOL (-)" and "CH (V)" keys should be pressed and held until the display appears.)

Multiple lines of blue characters appearing on the display indicate that the unit is now in the adjustment process mode.

When you fail to enter the adjustment process mode (the display is the same as normal startup), retry the procedure.

- 4) To exit the adjustment process mode after the adjustment is done, unplug the AC cord from the outlet to make a forced shutdown. (When the power was turned off with the remote controller, once unplug the AC cord and plug it again. In this case, wait 10 seconds or so before plugging.)

CAUTION: Use due care in handling the information described here lest your users should know how to enter the adjustment process mode. If the settings are tampered in this mode, unrecoverable system damage may result.

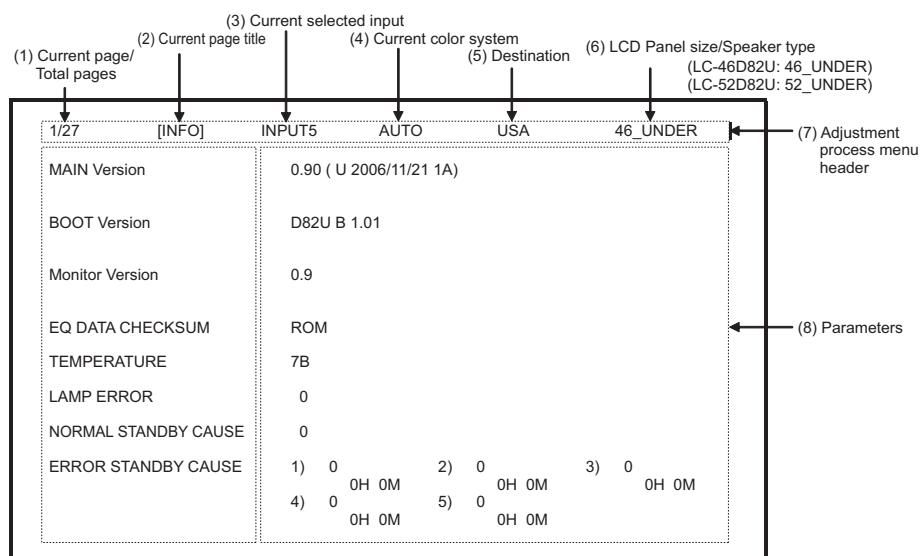
### 4. Remote controller key operation and description of display in adjustment process mode

- 1) Key operation

| Remote controller key | Main unit key | Function                                                                                |
|-----------------------|---------------|-----------------------------------------------------------------------------------------|
| CH (V / ^)            | CH (V / ^)    | Moving an item (line) by one (UP/DOWN)                                                  |
| VOL (+/-)             | VOL (+/-)     | Changing a selected item setting (+1/-1)                                                |
| Cursor (▲ / ▼)        | _____         | Turing a page (PREVIOUS/NEXT)                                                           |
| Cursor (◀ / ▶)        | _____         | Changing a selected line setting (+10/-10)                                              |
| INPUT                 | _____         | Input switching (toggle switching)<br>(TUNER→INPUT1→INPUT2→INPUT3→INPUT4→INPUT5→INPUT6) |
| ENTER                 | _____         | Executing a function                                                                    |

\*Input mode is switched automatically when relevant adjustment is started so far as the necessary input signal is available.

- 2) Description of display



## 5. List of adjustment process mode menu

The character string in brackets [ ] will appear as a page title in the adjustment process menu header.

| Page | Line | Item                     | Description                                   | Remarks (adjustment detail, etc.)                                                |
|------|------|--------------------------|-----------------------------------------------|----------------------------------------------------------------------------------|
| 1    |      | [INFO]                   |                                               |                                                                                  |
|      | 1    | MAIN Version             | Main software version                         | Refer to *1 under the list for details<br>Refer to *2 under the list for details |
|      | 2    | BOOT Version             |                                               |                                                                                  |
|      | 3    | Monitor Version          | Monitor software version                      |                                                                                  |
|      | 4    | EQ DATA CHECKSUM         | Audio data checksum                           |                                                                                  |
|      | 5    | TEMPERATURE              | CPU temperature                               |                                                                                  |
|      | 6    | LAMP ERROR               | Number of termination due to lamp error       |                                                                                  |
|      | 7    | NORMAL STANDBY CAUSE     |                                               |                                                                                  |
|      | 8    | ERROR STANDBY CAUSE      |                                               |                                                                                  |
| 2    |      | [INIT]                   |                                               |                                                                                  |
|      | 1    | INDUSTRY INIT (Cause)    |                                               | Level appears in green on the upper right.                                       |
|      | 2    | INDUSTRY INIT            | Initialization to factory settings            |                                                                                  |
|      | 3    | HOTELMODE                | Hotel mode                                    |                                                                                  |
|      | 4    | Center Acutime           | Accumulated main operation time               |                                                                                  |
|      | 5    | RESET                    | Reset                                         |                                                                                  |
|      | 6    | BacklightAcutime         | Accumulated monitor operation time            |                                                                                  |
|      | 7    | RESET                    | Reset                                         |                                                                                  |
|      | 8    | LAMP ERROR RESET         | Reset LAMP ERROR                              |                                                                                  |
|      | 9    | VIC XPOS                 | X-coordinate setting for VIC READ             |                                                                                  |
|      | 10   | VIC YPOS                 | Y-coordinate setting for VIC READ             |                                                                                  |
|      | 11   | VIC COLOR                | Collected color data setting for VIC READ     |                                                                                  |
|      | 12   | VIC SIGNAL TYPE          | Signal type setting for VIC READ              |                                                                                  |
|      | 13   | VIC READ                 | Picture level acquisition function            |                                                                                  |
| 3    |      | [N358MAIN]               |                                               |                                                                                  |
|      | 1    | N358 ALL ADJ (INPUT1)    | CVBS and TUNER signal level adjustment        |                                                                                  |
|      | 2    | N358 ALL ADJ (INPUT2)    | CVBS and TUNER signal level adjustment        |                                                                                  |
|      | 3    | N358 MAIN ADJ (INPUT1)   | CVBS signal level adjustment                  |                                                                                  |
|      | 4    | N358 MAIN ADJ (INPUT2)   | CVBS signal level adjustment                  |                                                                                  |
|      | 5    | TUNER DAC ADJ            | TUNER signal level adjustment                 |                                                                                  |
|      | 6    | VCOM ADJ                 |                                               |                                                                                  |
|      | 7    | N358 MAIN CONTRAST       | CVBS and TUNER contrast adjustment values     |                                                                                  |
|      | 8    | TUNER A DAC              | TUNER adjustment value                        |                                                                                  |
| 4    |      | [TUNER TEST]             |                                               |                                                                                  |
|      | 1    | TUNER VCHIP TEST(69ch)   | Tuning test and VCHIP test (69 ch)            |                                                                                  |
|      | 2    | TUNER VCHIP TEST(7ch)    | Tuning test and VCHIP test (7 ch)             |                                                                                  |
|      | 3    | TUNER VCHIP TEST(10ch)   | Tuning test and VCHIP test (10 ch)            |                                                                                  |
|      | 4    | TUNER VCHIP TEST(15ch)   | Tuning test and VCHIP test (15 ch)            |                                                                                  |
| 5    |      | [COMP15KMAIN]            |                                               |                                                                                  |
|      | 1    | COMP15K MAIN ADJ(INPUT1) | Component 15K picture level adjustment (main) |                                                                                  |
|      | 2    | COMP15K MAIN ADJ(INPUT2) | Component 15K picture level adjustment (main) |                                                                                  |
|      | 3    | COMP15K CONTRAST         | Contrast adjustment value                     |                                                                                  |
|      | 4    | COMP15K MAIN Cb GAIN     | Cb GAIN adjustment value                      |                                                                                  |
|      | 5    | COMP15K MAIN Cr GAIN     | Cr GAIN adjustment value                      |                                                                                  |
|      | 6    | COMP15K Y OFFSET         | Y OFFSET adjustment value                     |                                                                                  |
|      | 7    | COMP15K Cb OFFSET        | Cb OFFSET adjustment value                    |                                                                                  |
|      | 8    | COMP15K Cr OFFSET        | Cr OFFSET adjustment value                    |                                                                                  |
| 6    |      | [HDTV]                   |                                               |                                                                                  |
|      | 1    | HDTV ADJ(INPUT1)         | Component Hi-Vision picture level adjustment  |                                                                                  |
|      | 2    | HDTV ADJ(INPUT2)         | Component Hi-Vision picture level adjustment  |                                                                                  |
|      | 3    | HDTV CONTRAST            | Contrast adjustment value                     |                                                                                  |
|      | 4    | HDTV Cb GAIN             | Cb GAIN adjustment value                      |                                                                                  |
|      | 5    | HDTV Cr GAIN             | Cr GAIN adjustment value                      |                                                                                  |
|      | 6    | HDTV Y OFFSET            | Y OFFSET adjustment value                     |                                                                                  |
|      | 7    | HDTV Cb OFFSET           | Cb OFFSET adjustment value                    |                                                                                  |
|      | 8    | HDTV Cr OFFSET           | Cr OFFSET adjustment value                    |                                                                                  |
| 7    |      | [FR DDRTEST]             |                                               |                                                                                  |
|      | 1    | DDRA TEST1               |                                               |                                                                                  |
|      | 2    | DDRA TEST2               |                                               |                                                                                  |
|      | 3    | DDRB TEST1               |                                               |                                                                                  |
|      | 4    | DDRB TEST2               |                                               |                                                                                  |
|      | 5    | DDRB TEST3               |                                               |                                                                                  |
|      | 6    | FRC ON/OFF               |                                               |                                                                                  |

| Page | Line | Item                    | Description                               | Remarks (adjustment detail, etc.)  |
|------|------|-------------------------|-------------------------------------------|------------------------------------|
| 8    |      | [M GAMMA IN]            |                                           |                                    |
|      | 1    | MONITOR GAMMA IN 1      | Standard value 1(WBI10184)                | Adjustment gradation setting.      |
|      | 2    | MONITOR GAMMA IN 2      | Standard value 2(WBI20352)                |                                    |
|      | 3    | MONITOR GAMMA IN 3      | Standard value 3(WBI30528)                |                                    |
|      | 4    | MONITOR GAMMA IN 4      | Standard value 4(WBI40656)                |                                    |
|      | 5    | MONITOR GAMMA IN 5      | Standard value 5(WBI50800)                |                                    |
|      | 6    | MONITOR GAMMA IN 6      | Standard value 6(WBI60928)                |                                    |
|      | 7    | GAMMA WRITE             | WB adjustment data writing                |                                    |
|      | 8    | GAMMA RESET             | WB adjustment data reading                |                                    |
| 9    |      | [M GAMMA R1]            |                                           |                                    |
|      | 1    | MONITOR GAMMA R 1       | WB adjustment Point 1, R adjustment value | Parameter for six-point adjustment |
|      | 2    | MONITOR GAMMA G 1       | WB adjustment Point 1, G adjustment value |                                    |
|      | 3    | MONITOR GAMMA B 1       | WB adjustment Point 1, B adjustment value |                                    |
|      | 4    | MONITOR GAMMA R 2       | WB adjustment Point 2, R adjustment value |                                    |
|      | 5    | MONITOR GAMMA G 2       | WB adjustment Point 2, G adjustment value |                                    |
|      | 6    | MONITOR GAMMA B 2       | WB adjustment Point 2, B adjustment value |                                    |
|      | 7    | MONITOR GAMMA R 3       | WB adjustment Point 3, R adjustment value |                                    |
|      | 8    | MONITOR GAMMA G 3       | WB adjustment Point 3, G adjustment value |                                    |
|      | 9    | MONITOR GAMMA B 3       | WB adjustment Point 3, B adjustment value |                                    |
|      | 10   | GAMMA WRITE             | WB adjustment data writing                |                                    |
|      | 11   | GAMMA RESET             | WB adjustment data reading                |                                    |
| 10   |      | [M GAMMA R4]            |                                           |                                    |
|      | 1    | MONITOR GAMMA R 4       | WB adjustment Point 4, R adjustment value | Parameter for six-point adjustment |
|      | 2    | MONITOR GAMMA G 4       | WB adjustment Point 4, G adjustment value |                                    |
|      | 3    | MONITOR GAMMA B 4       | WB adjustment Point 4, B adjustment value |                                    |
|      | 4    | MONITOR GAMMA R 5       | WB adjustment Point 5, R adjustment value |                                    |
|      | 5    | MONITOR GAMMA G 5       | WB adjustment Point 5, G adjustment value |                                    |
|      | 6    | MONITOR GAMMA B 5       | WB adjustment Point 5, B adjustment value |                                    |
|      | 7    | MONITOR GAMMA R 6       | WB adjustment Point 6, R adjustment value |                                    |
|      | 8    | MONITOR GAMMA G 6       | WB adjustment Point 6, G adjustment value |                                    |
|      | 9    | MONITOR GAMMA B 6       | WB adjustment Point 6, B adjustment value |                                    |
|      | 10   | GAMMA WRITE             | WB adjustment data writing                |                                    |
|      | 11   | GAMMA RESET             | WB adjustment data reading                |                                    |
| 11   |      | [SOUND 1]               |                                           |                                    |
|      | 1    | AUDIO SWITCH            |                                           |                                    |
|      | 2    | FORCED FLAT MODE        |                                           |                                    |
|      | 3    | AIN1_ADC_VOLUME         |                                           |                                    |
|      | 4    | AIN2_ADC_VOLUME         |                                           |                                    |
|      | 5    | AIN3_ADC_VOLUME         |                                           |                                    |
|      | 6    | AIN4_ADC_VOLUME         |                                           |                                    |
|      | 7    | AIN5_ADC_VOLUME         |                                           |                                    |
|      | 8    | AIN6_ADC_VOLUME         |                                           |                                    |
| 12   |      | [SOUND 2]               |                                           |                                    |
|      | 1    | INPUT_MIXER_GAIN_SP     |                                           |                                    |
|      | 2    | INPUT_MIXER_GAIN_HP     |                                           |                                    |
|      | 3    | INPUT_MIXER_GAIN_EXT    |                                           |                                    |
|      | 4    | INPUT_MIXER_GAIN_EXT_HP |                                           |                                    |
|      | 5    | OUTPUT_MIXER_GAIN       |                                           |                                    |
|      | 6    | SUB_VOLUME_FLAT         |                                           |                                    |
|      | 7    | SUB_VOLUME_EQ           |                                           |                                    |
|      | 8    | SUB_VOLUME_AUDYSSEY     |                                           |                                    |
| 13   |      | [SOUND 3]               |                                           |                                    |
|      | 1    | PEQ1_F0                 |                                           |                                    |
|      | 2    | PEQ1_Q                  |                                           |                                    |
|      | 3    | PEQ1_GAIN               |                                           |                                    |
|      | 4    | PEQ2_F0                 |                                           |                                    |
|      | 5    | PEQ2_Q                  |                                           |                                    |
|      | 6    | PEQ2_GAIN               |                                           |                                    |
|      | 7    | PEQ3_F0                 |                                           |                                    |
|      | 8    | PEQ3_Q                  |                                           |                                    |
|      | 9    | PEQ3_GAIN               |                                           |                                    |
|      | 10   | PEQ4_F0                 |                                           |                                    |
|      | 11   | PEQ4_Q                  |                                           |                                    |
|      | 12   | PEQ4_GAIN               |                                           |                                    |



| Page | Line | Item              | Description | Remarks (adjustment detail, etc.) |
|------|------|-------------------|-------------|-----------------------------------|
| 14   |      | [SOUND 4]         |             |                                   |
|      | 1    | PEQ5_F0           |             |                                   |
|      | 2    | PEQ5_Q            |             |                                   |
|      | 3    | PEQ5_GAIN         |             |                                   |
|      | 4    | VIRTUALIZER_LEVEL |             |                                   |
|      | 5    | BASS_BOOST_LEVEL  |             |                                   |
|      | 6    | SLICER_LEVEL      |             |                                   |
|      | 7    | HPF_SW            |             |                                   |
|      | 8    | HPF_LR            |             |                                   |
|      | 9    | LPF_SW            |             |                                   |
|      | 10   | SW_MIXING_LEVEL   |             |                                   |
| 15   |      | [M OPC1]          |             |                                   |
|      | 1    | BRIGHTNESS DA0    |             |                                   |
|      | 2    | BRIGHTNESS DA1    |             |                                   |
|      | 3    | BRIGHTNESS DA2    |             |                                   |
|      | 4    | BRIGHTNESS DA3    |             |                                   |
|      | 5    | BRIGHTNESS DA4    |             |                                   |
|      | 6    | BRIGHTNESS DA5    |             |                                   |
|      | 7    | BRIGHTNESS DA6    |             |                                   |
|      | 8    | BRIGHTNESS DA7    |             |                                   |
|      | 9    | BRIGHTNESS DA8    |             |                                   |
|      | 10   | BRIGHTNESS DA9    |             |                                   |
|      | 11   | BRIGHTNESS DA10   |             |                                   |
|      | 12   | BRIGHTNESS DA11   |             |                                   |
| 16   |      | [M OPC2]          |             |                                   |
|      | 1    | BRIGHTNESS DA12   |             |                                   |
|      | 2    | BRIGHTNESS DA13   |             |                                   |
|      | 3    | BRIGHTNESS DA14   |             |                                   |
|      | 4    | BRIGHTNESS DA15   |             |                                   |
|      | 5    | BRIGHTNESS DA16   |             |                                   |
|      | 6    | BRIGHTNESS DA17   |             |                                   |
|      | 7    | BRIGHTNESS DA18   |             |                                   |
|      | 8    | BRIGHTNESS DA19   |             |                                   |
|      | 9    | BRIGHTNESS DA20   |             |                                   |
|      | 10   | BRIGHTNESS DA21   |             |                                   |
|      | 11   | BRIGHTNESS DA22   |             |                                   |
| 17   |      | [M OPC3]          |             |                                   |
|      | 1    | BRIGHTNESS DA23   |             |                                   |
|      | 2    | BRIGHTNESS DA24   |             |                                   |
|      | 3    | BRIGHTNESS DA25   |             |                                   |
|      | 4    | BRIGHTNESS DA26   |             |                                   |
|      | 5    | BRIGHTNESS DA27   |             |                                   |
|      | 6    | BRIGHTNESS DA28   |             |                                   |
|      | 7    | BRIGHTNESS DA29   |             |                                   |
|      | 8    | BRIGHTNESS DA30   |             |                                   |
|      | 9    | BRIGHTNESS DA31   |             |                                   |
|      | 10   | BRIGHTNESS DA32   |             |                                   |
| 18   |      | [M ADL1]          |             |                                   |
|      | 1    | OPC33 ADLEVEL 0   |             |                                   |
|      | 2    | OPC33 ADLEVEL 1   |             |                                   |
|      | 3    | OPC33 ADLEVEL 2   |             |                                   |
|      | 4    | OPC33 ADLEVEL 3   |             |                                   |
|      | 5    | OPC33 ADLEVEL 4   |             |                                   |
|      | 6    | OPC33 ADLEVEL 5   |             |                                   |
|      | 7    | OPC33 ADLEVEL 6   |             |                                   |
|      | 8    | OPC33 ADLEVEL 7   |             |                                   |
|      | 9    | OPC33 ADLEVEL 8   |             |                                   |
|      | 10   | OPC33 ADLEVEL 9   |             |                                   |
|      | 11   | OPC33 ADLEVEL 10  |             |                                   |
|      | 12   | OPC33 ADLEVEL 11  |             |                                   |

| Page | Line | Item                  | Description                         | Remarks (adjustment detail, etc.) |
|------|------|-----------------------|-------------------------------------|-----------------------------------|
| 19   |      | [M ADL2]              |                                     |                                   |
|      | 1    | OPC33 ADLEVEL 12      |                                     |                                   |
|      | 2    | OPC33 ADLEVEL 13      |                                     |                                   |
|      | 3    | OPC33 ADLEVEL 14      |                                     |                                   |
|      | 4    | OPC33 ADLEVEL 15      |                                     |                                   |
|      | 5    | OPC33 ADLEVEL 16      |                                     |                                   |
|      | 6    | OPC33 ADLEVEL 17      |                                     |                                   |
|      | 7    | OPC33 ADLEVEL 18      |                                     |                                   |
|      | 8    | OPC33 ADLEVEL 19      |                                     |                                   |
|      | 9    | OPC33 ADLEVEL 20      |                                     |                                   |
|      | 10   | OPC33 ADLEVEL 21      |                                     |                                   |
|      | 11   | OPC33 ADLEVEL 22      |                                     |                                   |
| 20   |      | [M ADL3]              |                                     |                                   |
|      | 1    | OPC33 ADLEVEL 23      |                                     |                                   |
|      | 2    | OPC33 ADLEVEL 24      |                                     |                                   |
|      | 3    | OPC33 ADLEVEL 25      |                                     |                                   |
|      | 4    | OPC33 ADLEVEL 26      |                                     |                                   |
|      | 5    | OPC33 ADLEVEL 27      |                                     |                                   |
|      | 6    | OPC33 ADLEVEL 28      |                                     |                                   |
|      | 7    | OPC33 ADLEVEL 29      |                                     |                                   |
|      | 8    | OPC33 ADLEVEL 30      |                                     |                                   |
|      | 9    | OPC33 ADLEVEL 31      |                                     |                                   |
| 21   |      | [M V6THE]             |                                     |                                   |
|      | 1    | V6 OS THERMO 1        |                                     |                                   |
|      | 2    | V6 OS THERMO 2        |                                     |                                   |
|      | 3    | V6 OS THERMO 3        |                                     |                                   |
|      | 4    | V6 OS THERMO 4        |                                     |                                   |
|      | 5    | V6 OS THERMO 5        |                                     |                                   |
|      | 6    | V6 OS THERMO 6        |                                     |                                   |
|      | 7    | V6 OS THERMO 7        |                                     |                                   |
| 22   |      | [M V5THE]             |                                     |                                   |
|      | 1    | V5 OS THERMO 1        |                                     |                                   |
|      | 2    | V5 OS THERMO 2        |                                     |                                   |
|      | 3    | V5 OS THERMO 3        |                                     |                                   |
|      | 4    | V5 OS THERMO 4        |                                     |                                   |
|      | 5    | V5 OS THERMO 5        |                                     |                                   |
|      | 6    | V5 OS THERMO 6        |                                     |                                   |
|      | 7    | V5 OS THERMO 7        |                                     |                                   |
| 23   |      | [M EEP SET]           |                                     |                                   |
|      | 1    | MONITOR TIME OUT      |                                     |                                   |
|      | 2    | MONITOR MAX TEMP      |                                     |                                   |
|      | 3    | MONITOR STANDBY CAUSE |                                     |                                   |
| 24   |      | [M TESTPTRN]          |                                     |                                   |
|      | 1    | LCD TEST PATTERN      |                                     |                                   |
| 25   |      | [FR REGI]             |                                     |                                   |
|      | 1    | READ/WRITE            |                                     |                                   |
|      | 2    | SLAVE ADDRESS         |                                     |                                   |
|      | 3    | REGISTOR ADDRESS      |                                     |                                   |
|      | 4    | WRITE DATA            |                                     |                                   |
|      | 5    | READ DATA             |                                     |                                   |
| 26   |      | [MEMORY CLR]          |                                     |                                   |
|      | 1    | KEY LOCK(1217)        |                                     |                                   |
|      | 2    | KOUTEI AREA ALL CLEAR |                                     |                                   |
|      | 3    | A MODE AREA CLEAR     |                                     |                                   |
|      | 4    | BACKUP AREA CLEAR     |                                     |                                   |
|      | 5    | B MODE AREA CLEAR     |                                     |                                   |
|      | 6    | EXECUTION             |                                     |                                   |
| 27   |      | [ETC]                 |                                     |                                   |
|      | 1    | EEP SAVE              | Writing setting values to EEPROM.   |                                   |
|      | 2    | EEP RECOVER           | Reading setting values from EEPROM. |                                   |
|      | 3    | STANDBY CAUSE RESET   | Reset stand by cause.               |                                   |
|      | 4    | SETTING FOR ADJ       |                                     |                                   |

**\*1 Details of P1.7(NORMAL STANDBY CAUSE)**

|   |                            |                                      |
|---|----------------------------|--------------------------------------|
| 6 | No operation off           | in the cause of "no operation off"   |
| 7 | No signal off              | in the cause of "no signal off"      |
| 8 | PC power management mode 1 | in the cause of "Standby mode MODE1" |
| 9 | PC power management mode 2 | in the cause of "Standby mode MODE2" |
| A | Off timer                  | in the cause of "SLEEP timer"        |
| C | Command from RS232C        | in the cause of command by RS-232C   |

**\*2 Details of P1.8(ERROR STANDBY CAUSE)**

|    |                                               |                                                          |
|----|-----------------------------------------------|----------------------------------------------------------|
| 5  | Prolonged unspecified-signal input in PC mode | in the cause of continuous "out of range", PC input mode |
| 13 | Temperature error                             | in the cause of abnormal temperature                     |
| 16 | Monitor trouble detected                      | in the cause of abnormal monitor mode                    |
| 17 | Fan lock                                      | in the cause of fan lock                                 |

**6. Special features****\* STANDBY CAUSE (Page 1/27)**

Display of a cause (code) of the last standby

The cause of the last standby is recorded in EEPROM whenever possible.

Checking this code will be useful in finding a problem when you repair the troubled set.

**\* EEP SAVE (Page 27/27)**

Storage of EEP adjustment value

**\* EEP RECOVER (Page 27/27)**

Retrieval of EEP adjustment value from storage area

**7. Video signal adjustment procedure**

\*Adjustment process mode menu is listed in section 5.

**7.1. Signal check**

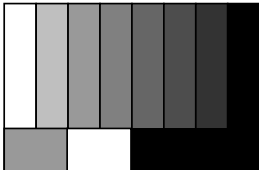
Signal generator level adjustment check (Adjustment to the specified level)

|   |                      |   |              |           |                                      |
|---|----------------------|---|--------------|-----------|--------------------------------------|
| • | Composite signal     | : |              | 0.714Vp-p | ± 0.02Vp-p (Pedestal to white level) |
| • | 15K component signal | : | Y level      | 0.714Vp-p | ± 0.02Vp-p (Pedestal to white level) |
|   |                      | : | PB, PR level | 0.7Vp-p   | ± 0.02Vp-p                           |
| • | 33K component signal | : | Y level      | 0.7Vp-p   | ± 0.02Vp-p (Pedestal to white level) |
|   |                      | : | PB, PR level | 0.7Vp-p   | ± 0.02Vp-p                           |

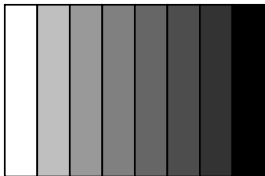
**7.2. Entering the adjustment process mode**

Enter the adjustment process mode according to the steps described in section 3.

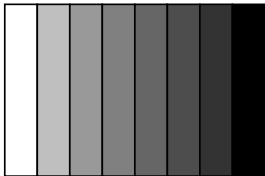
**7.3. N358 composite signal adjustment (Tuner)**

|   | Adjustment item             | Adjustment conditions | Adjustment procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---|-----------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Adjustment                  | N358 signal           | <p>Feed the PAL split field color bar signal (75% color saturation) to VIDEO 1 input. Feed the RF signal (by use of US-10ch) to TUNER-A.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p><b>[Video input signal]</b></p>  <p>↑ 100% white</p> </div> <div style="text-align: center;"> <p><b>[US-10CH]</b></p>  <p>↑ 100% white</p> </div> </div> |
| 2 | Auto adjustment performance | Page 3/27             | <p>Bring the cursor on [●N358 ALL ADJ] and press [ENTER].</p> <p>[●N358 ALL ADJ FINISH] appears when finished.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**7.4. Component 15K signal adjustment**

|   | Adjustment item             | Adjustment conditions | Adjustment procedure                                                                                                                                                     |
|---|-----------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Adjustment                  | 480i signal           | <p>Feed the 100% color bar signal to INPUT 1 component input.</p>  <p>↑ 100% white</p> |
| 2 | Auto adjustment performance | Page 5/27             | <p>Bring the cursor on [<b>COMP 15K MAIN ADJ</b>] and press [ENTER].<br/> <b>[COMP 15K ALL ADJ FINISH]</b> appears when finished.</p>                                    |

**7.5. Component 33K signal adjustment**

|   | Adjustment item             | Adjustment conditions | Adjustment procedure                                                                                                                                                     |
|---|-----------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Adjustment                  | 1080i signal          | <p>Feed the 100% color bar signal to INPUT 1 component input.</p>  <p>↑ 100% white</p> |
| 2 | Auto adjustment performance | Page 6/27             | <p>Bring the cursor on [<b>HDTV ADJ</b>] and press [ENTER].<br/> <b>[HDTV ADJ FINISH]</b> appears when finished.</p>                                                     |

## 8. Adjustment of white balance

## 8.1. White balance adjustment

|   | Adjustment item             | Adjustment conditions | Adjustment procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---|-----------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Adjustment                  |                       | 1) Apply the following settings to the set.<br>AV MODE: [DYNAMIC]<br>Aging Time: 60 Min.<br>Backlight: +16<br>2) Connect a white balance jig and the set.<br>Optical measuring machine: [Minolta CA-210]<br>PC<br>RS-232C communication cable<br>3) Use an RS-232C command to display the screen for multipoint adjustment.<br>•Multipoint adjustment mode (MSET0001)<br>•Adjustment value initialization (MSET0004)<br>•Standard value 6 (WBI60928)<br>•Standard value 5 (WBI50800)<br>•Standard value 4 (WBI40656)<br>•Standard value 3 (WBI30528)<br>•Standard value 2 (WBI20352)<br>•Standard value 1 (WBI10176)<br>•Write setting (MSET0003)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2 | Auto adjustment performance |                       | [Adjustment]<br>1) Enter the monitor adjustment process mode.<br>2) Set the specified gradation for standard value 6. Set the strongest color as the fixed color and adjust RGB by reducing to the standard value.<br>3) Set the specified gradation for standard value 5. Set the correction value of G [(default of standard value 5) x (G of standard value 6) / (default of standard value 6)] and adjust RB to the standard value.<br>4) Set the specified gradation for standard value 4. Set the correction value of G [(default of standard value 4) x (G of standard value 6) / (default of standard value 6)] and adjust RB to the standard value.<br>5) Set the specified gradation for standard value 3. Set the correction value of G [(default of standard value 3) x (G of standard value 6) / (default of standard value 6)] and adjust RB to the standard value.<br>6) Set the specified gradation for standard value 2. Set the correction value of G [(default of standard value 2) x (G of standard value 6) / (default of standard value 6)] and adjust RB to the standard value.<br>7) Set the specified gradation for standard value 1. Set the correction value of G [(default of standard value 1) x (G of standard value 6) / (default of standard value 6)] and adjust RB to the standard value.<br>8) Write the adjustment values with MSET0003 command and turn off AC power. |

[Adjustment values]

Optical measuring machine: [Minolta CA-210] (Focus on the center of the screen.)

|                  | Level | Standard value                                                                                      | Adjustment value | Tolerance |
|------------------|-------|-----------------------------------------------------------------------------------------------------|------------------|-----------|
| Standard value 6 | 232   | x = 0.272                                                                                           | ±0.0025          | ±0.005    |
|                  |       | y = 0.277                                                                                           | ±0.0025          | ±0.005    |
| Standard value 5 | 200   | x = 0.272                                                                                           | ±0.0025          | ±0.005    |
|                  |       | y = 0.277                                                                                           | ±0.0025          | ±0.005    |
| Standard value 4 | 164   | x = 0.272                                                                                           | ±0.004           | ±0.008    |
|                  |       | y = 0.277                                                                                           | ±0.004           | ±0.008    |
| Standard value 3 | 132   | x = 0.272                                                                                           | ±0.006           | ±0.010    |
|                  |       | y = 0.277                                                                                           | ±0.006           | ±0.010    |
| Standard value 2 | 88    | x = 0.272                                                                                           | ±0.006           | ±0.010    |
|                  |       | y = 0.277                                                                                           | ±0.006           | ±0.010    |
| Standard value 1 | 44    | x = 0.272                                                                                           | ±0.011           | ±0.020    |
|                  |       | y = 0.277                                                                                           | ±0.011           | ±0.020    |
| Note             |       | Set the following before adjustment.<br>AV MODE: [DYNAMIC]<br>Monochrome: ON<br>Aging Time: 60 Min. |                  |           |

**8.2. Adjusting procedure by use of [RS-232C]**

1. Get ready the PC with COM port (RS-232C) running on Windows 95/98/ME/2000/XP operating system, as well as the RS-232C cross cable.
2. Start the unit with the RS-232C cable connected.
3. Start the terminal software. (The freeware readily available on the Internet will do.)
4. Make the following settings.

|              |           |
|--------------|-----------|
| Baud rate    | 9,600 bps |
| Data LENGTH  | 8 bit     |
| Parity bit   | None      |
| Stop bit     | 1 bit     |
| Flow control | None      |

5. If the settings are correct, the terminal software indicates "ERR" against pressing of the "ENTER" key.
6. After the settings are done correctly, it is possible to make an adjustment by typing in the command shown in the table below and pressing the "ENTER" key on the keyboard.
7. Command entry is successful if the terminal software indicates "OK" when the "ENTER" is pressed. If "ERR" is shown, retry to enter the command.
8. Send the process mode switching command to switch from the RS232C operation mode to the process mode.  
KRSW0001: "ERR" is returned.  
KKT10037: When "OK" is returned, the process mode becomes active. When "ERR", start over from KRSW0001.
9. Send each adjustment command.



## 9. Initialization to factory settings

CAUTION: When initialization is performed, all user setting data including the channel settings are initialized. Be cautious when making this adjustment.

(The adjustments done in the adjustment process mode are not initialized.)

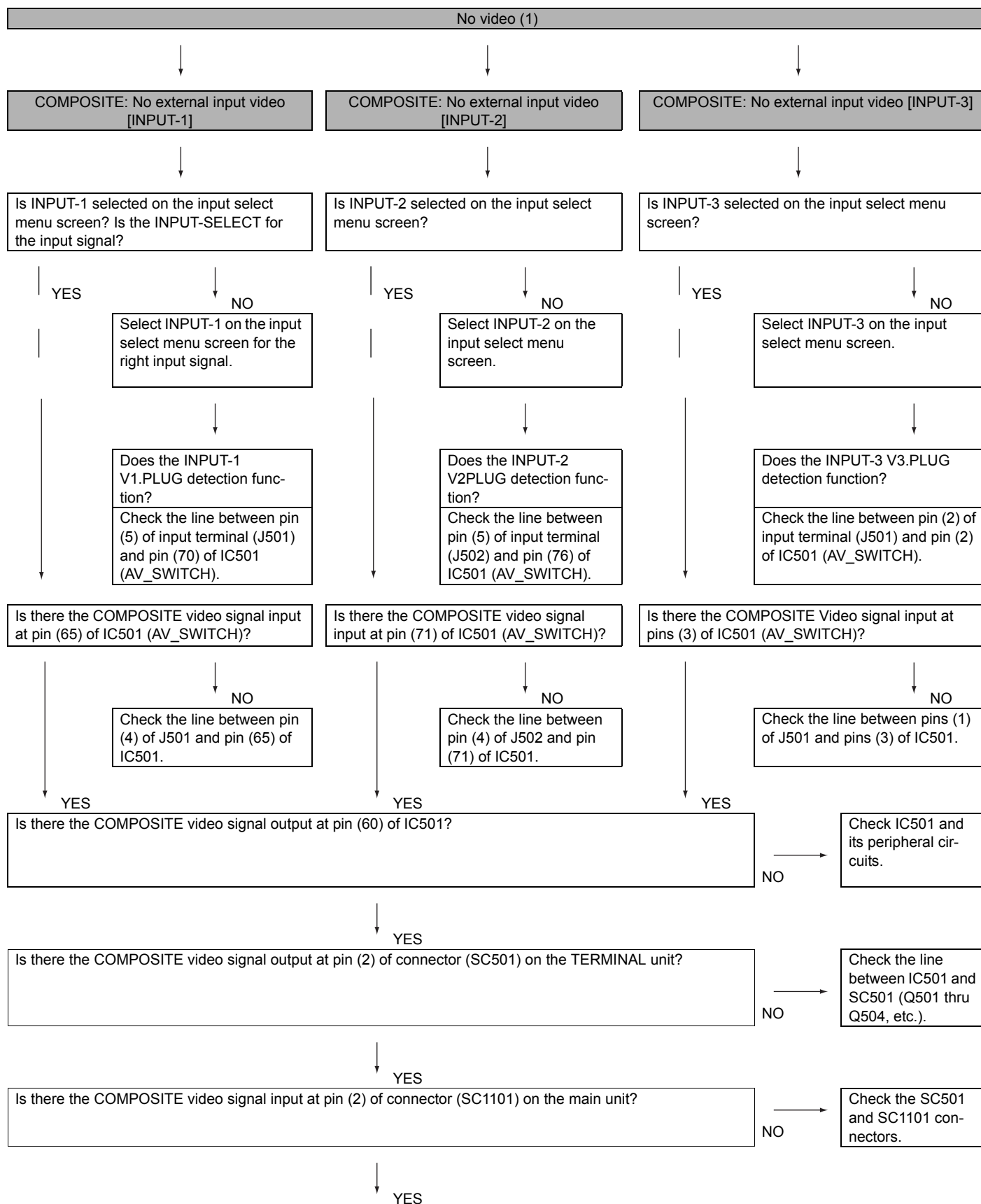
|   | Adjustment item | Adjustment conditions              | Adjustment procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---|-----------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Initialization  | It turns off with AC power supply. | <p>Enter the adjustment process mode.<br/> Bring the cursor on to [INDUSTRY INIT] in page 2/27.<br/> Set to [ON] using [VOL] key, and press [ENTER] to execute the initialization.<br/> When the version number screen shows up on the green background and "SUCCESS" gets displayed at the top on screen, it means the procedure has been successfully carried out.<br/> (If an error occurs, "ERROR" is displayed on the red background.)</p> <ul style="list-style-type: none"> <li>•Turn off the AC power.</li> </ul> <p>*Never shut off the power during the initialization process.<br/> The following settings are initialized in this adjustment.</p> <ol style="list-style-type: none"> <li>1) User setting</li> <li>2) Channel data (e.g. broadcast frequencies)</li> <li>3) Password data</li> <li>4) Operation time</li> <li>5) Stand-by Cause</li> <li>6) EZ SETUP flag</li> <li>7) V-CHIP block setting</li> </ol> |

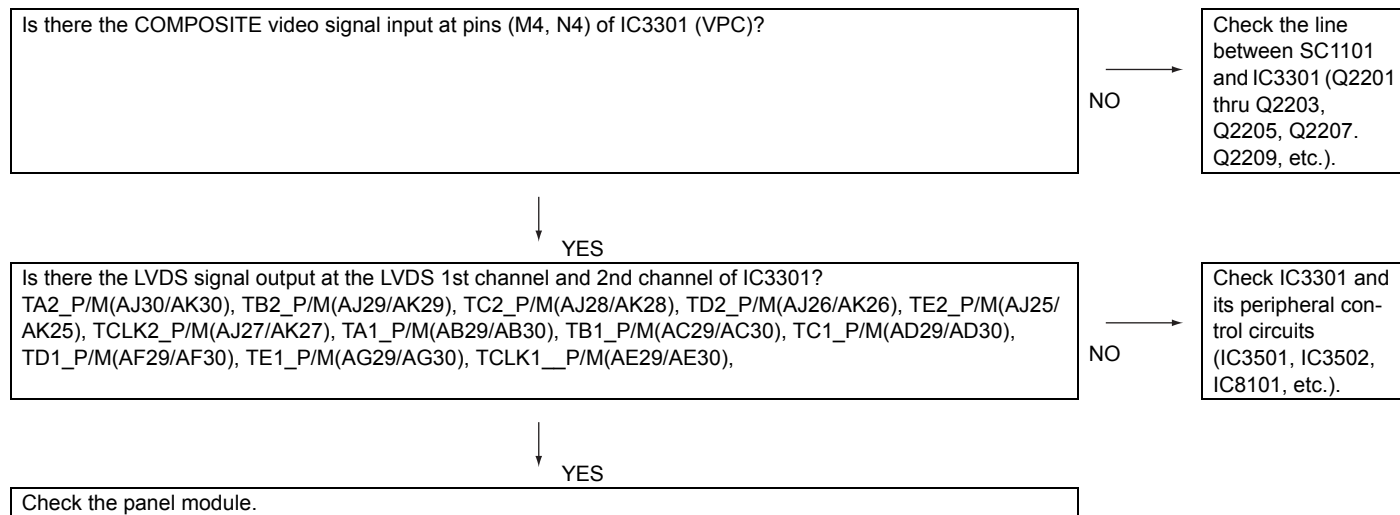
**After the adjustment, cancel the adjustment process mode.**

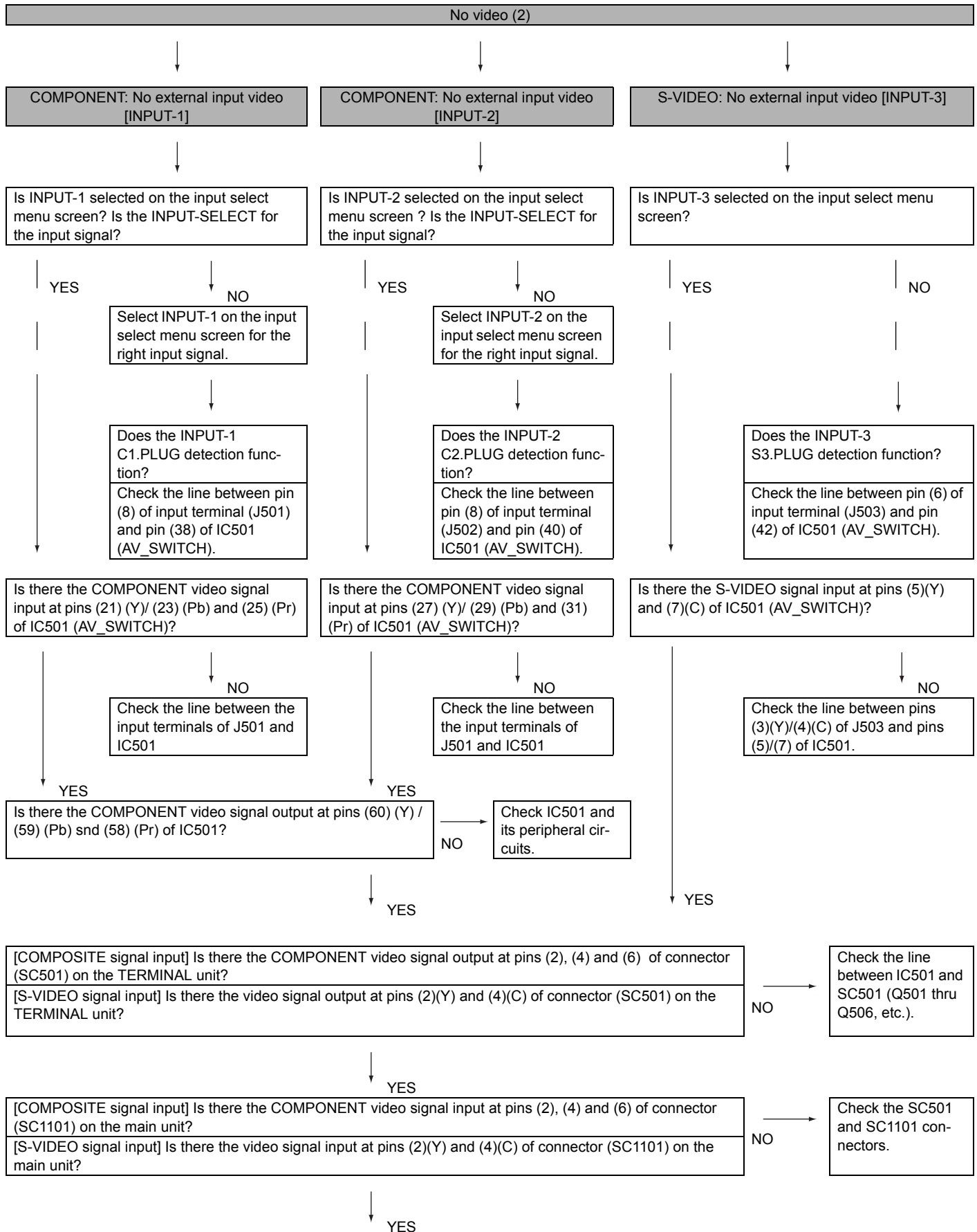
**To exit the adjustment process mode, unplug the AC power cable from the outlet to make a forced shutdown. (When the power was turned off with the remote controller, once unplug the power cable and plug it again. In this case, wait 10 seconds or so before plugging.)**

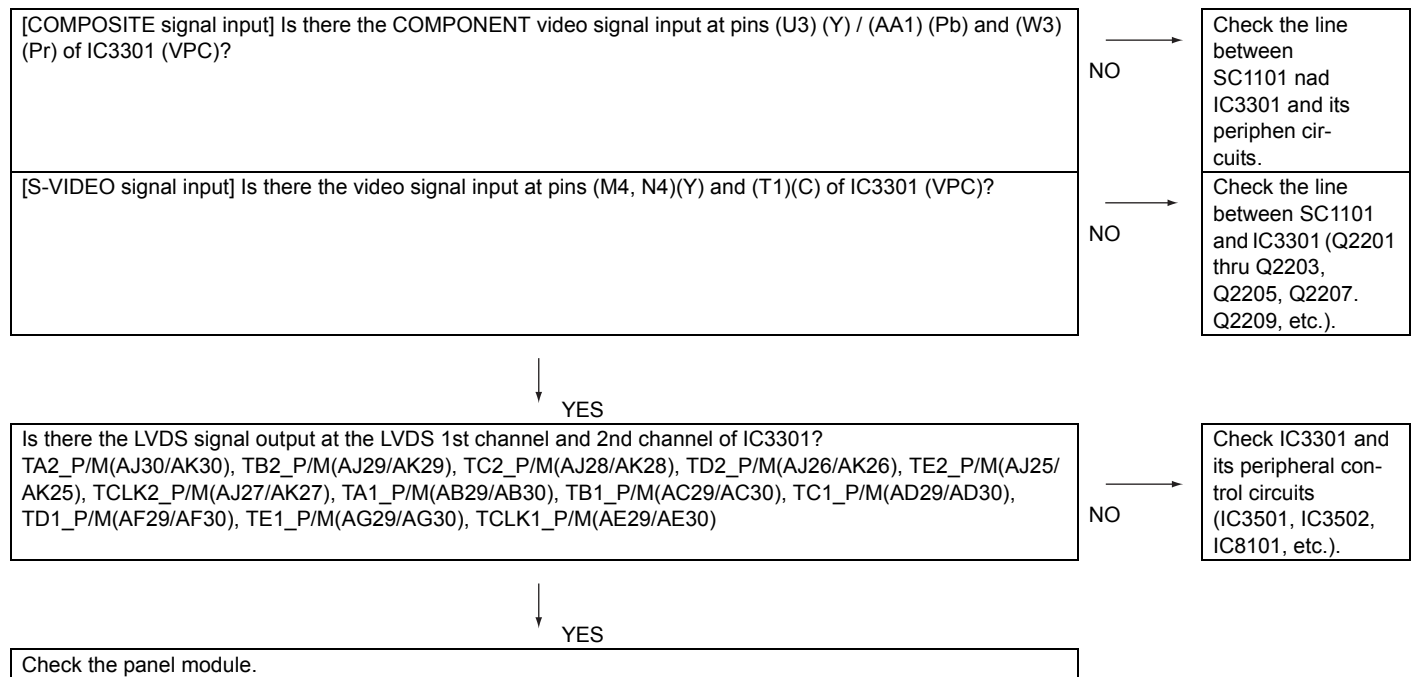
# CHAPTER 4. TROUBLESHOOTING TABLE

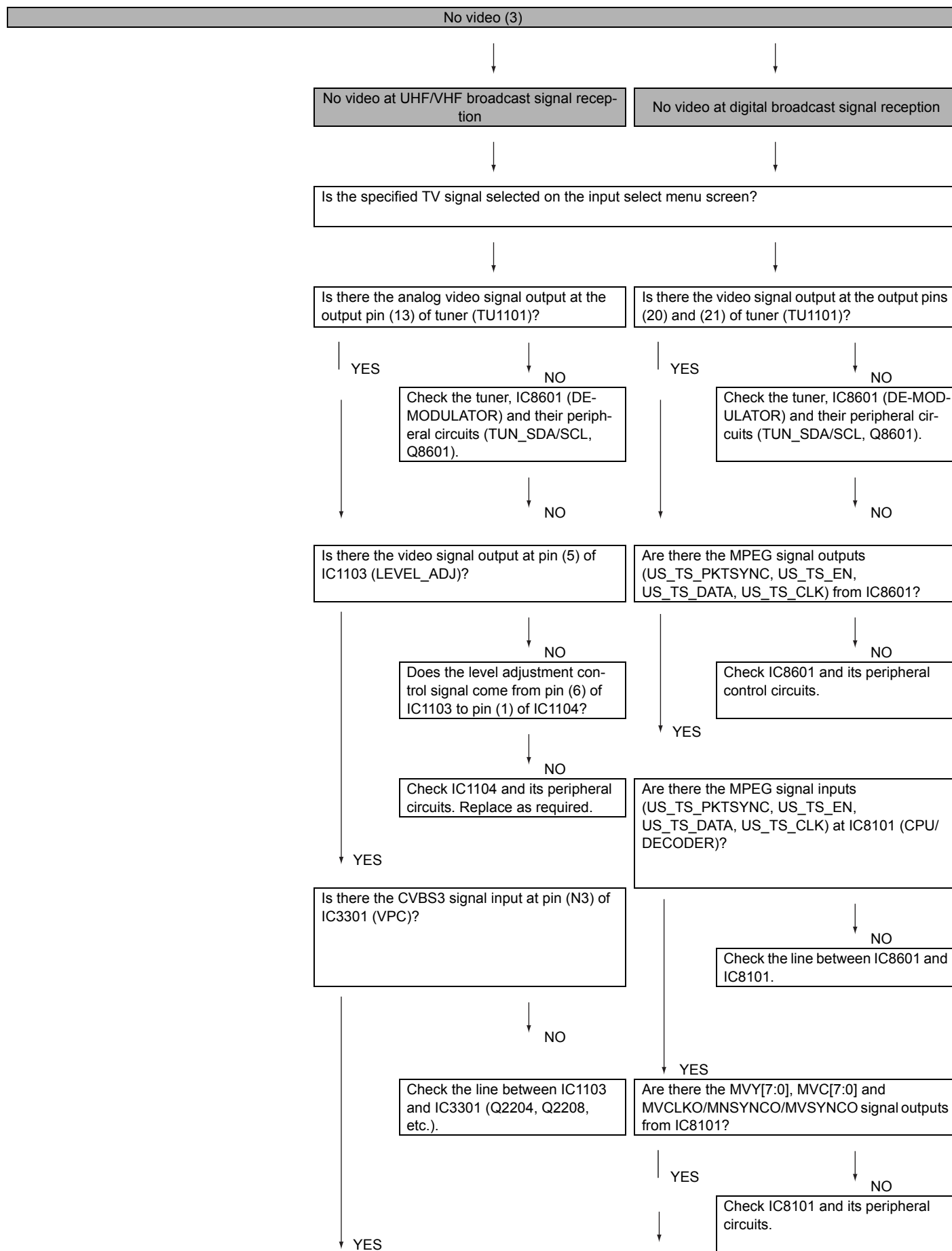
## [1] TROUBLESHOOTING TABLE

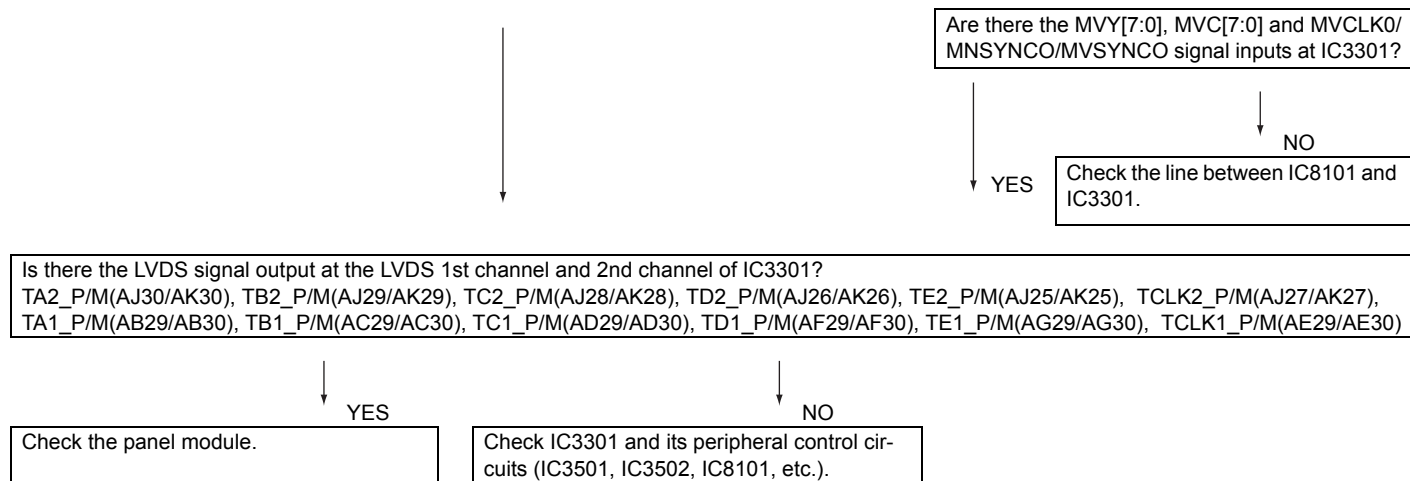




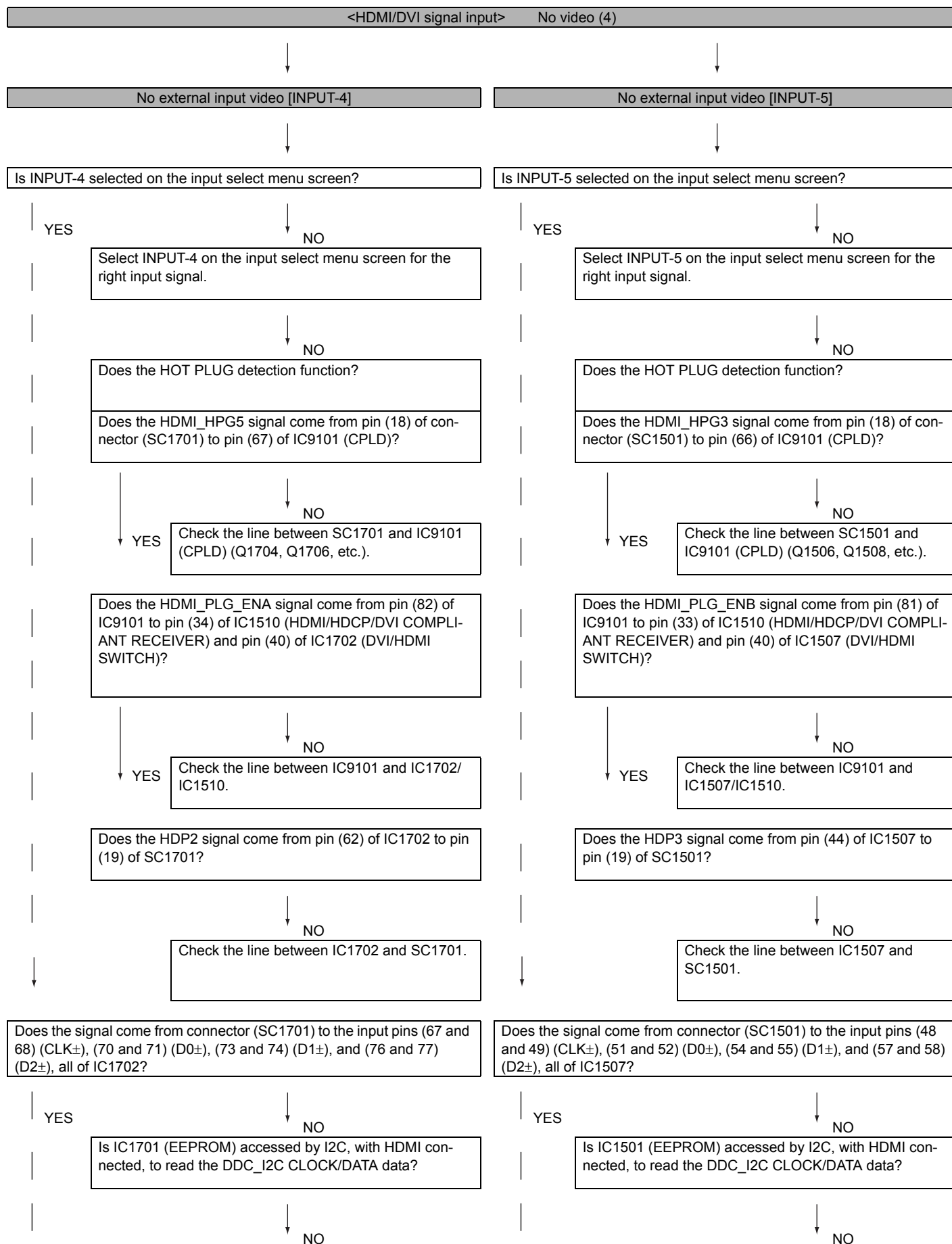


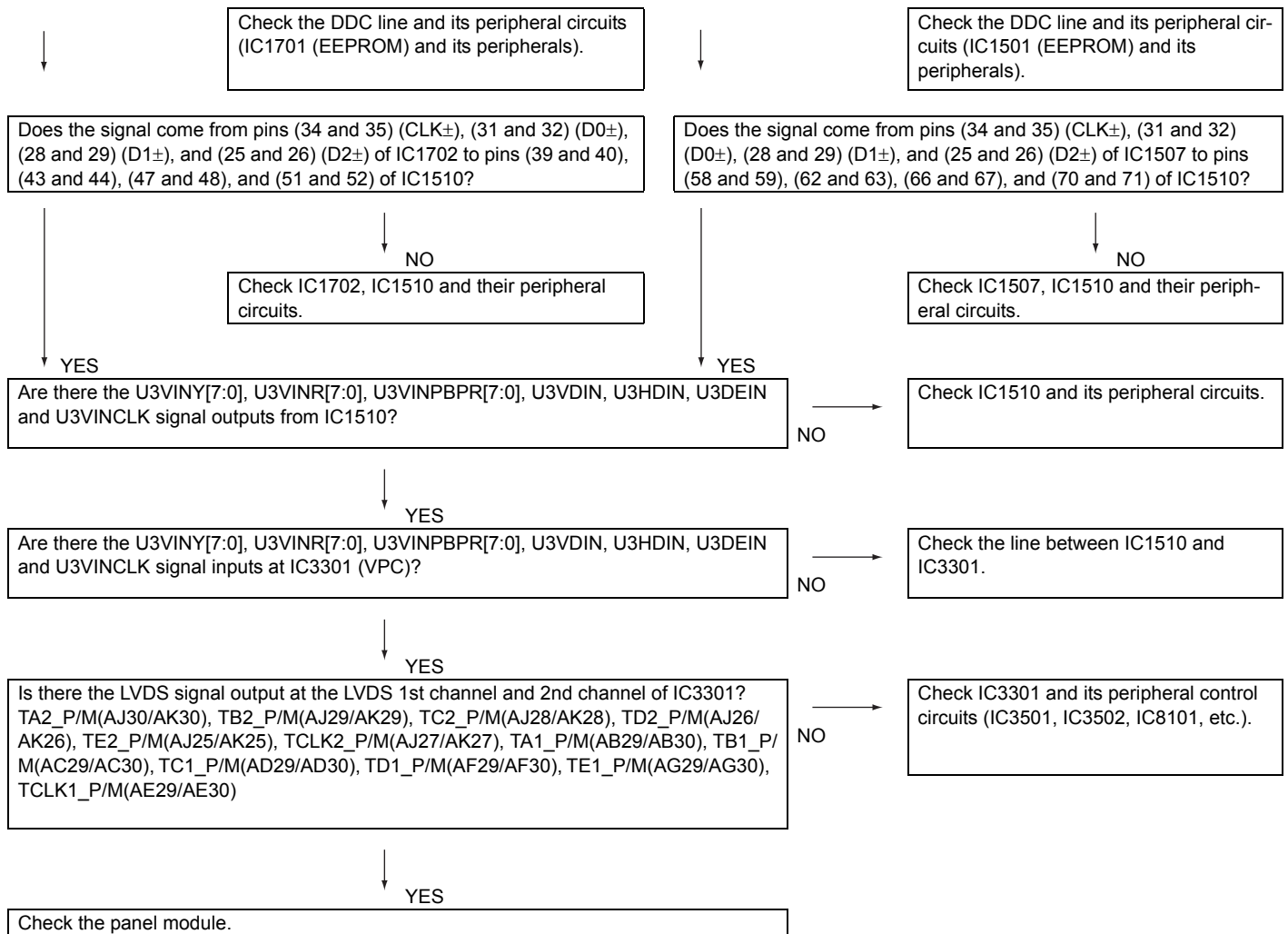


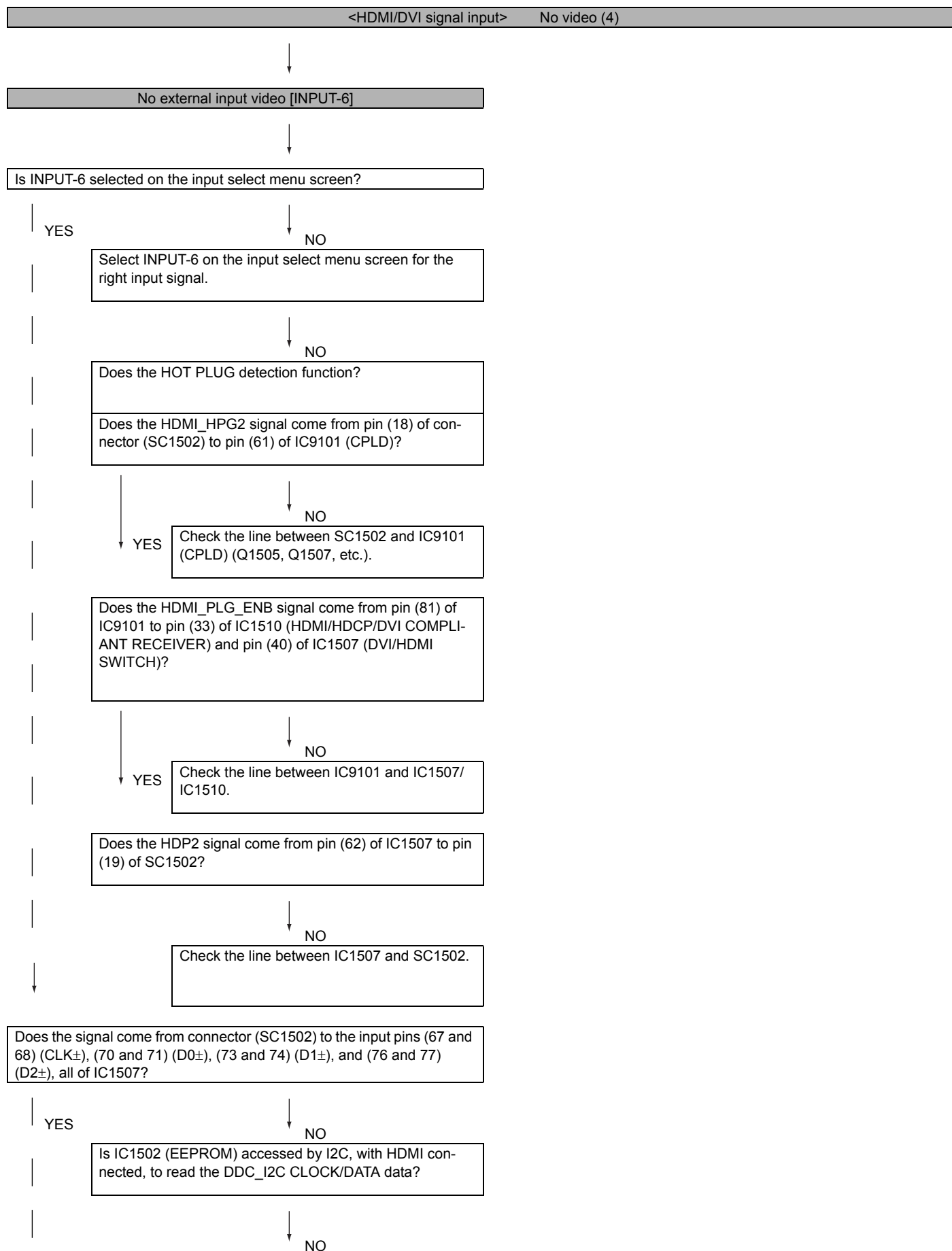


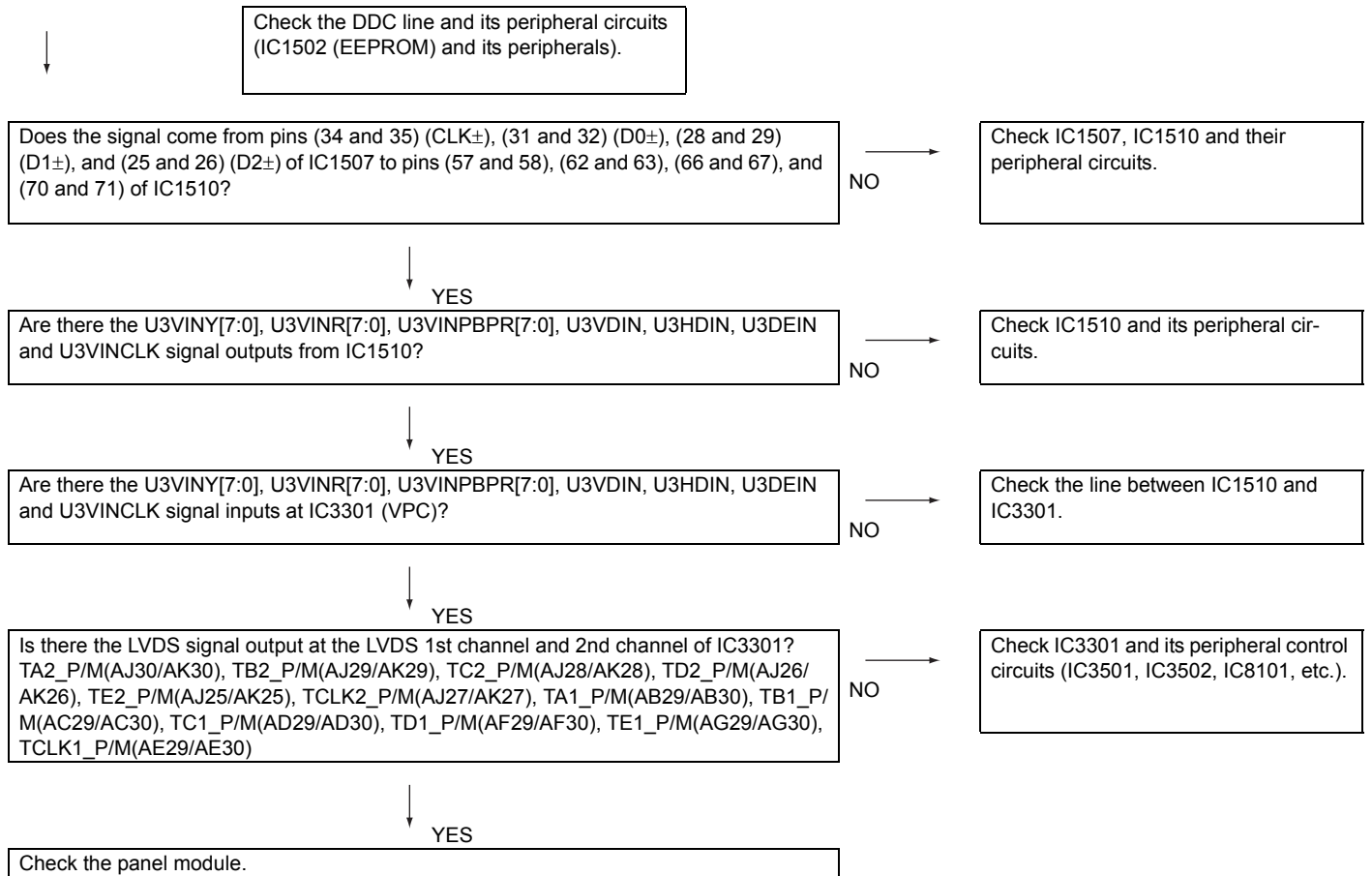


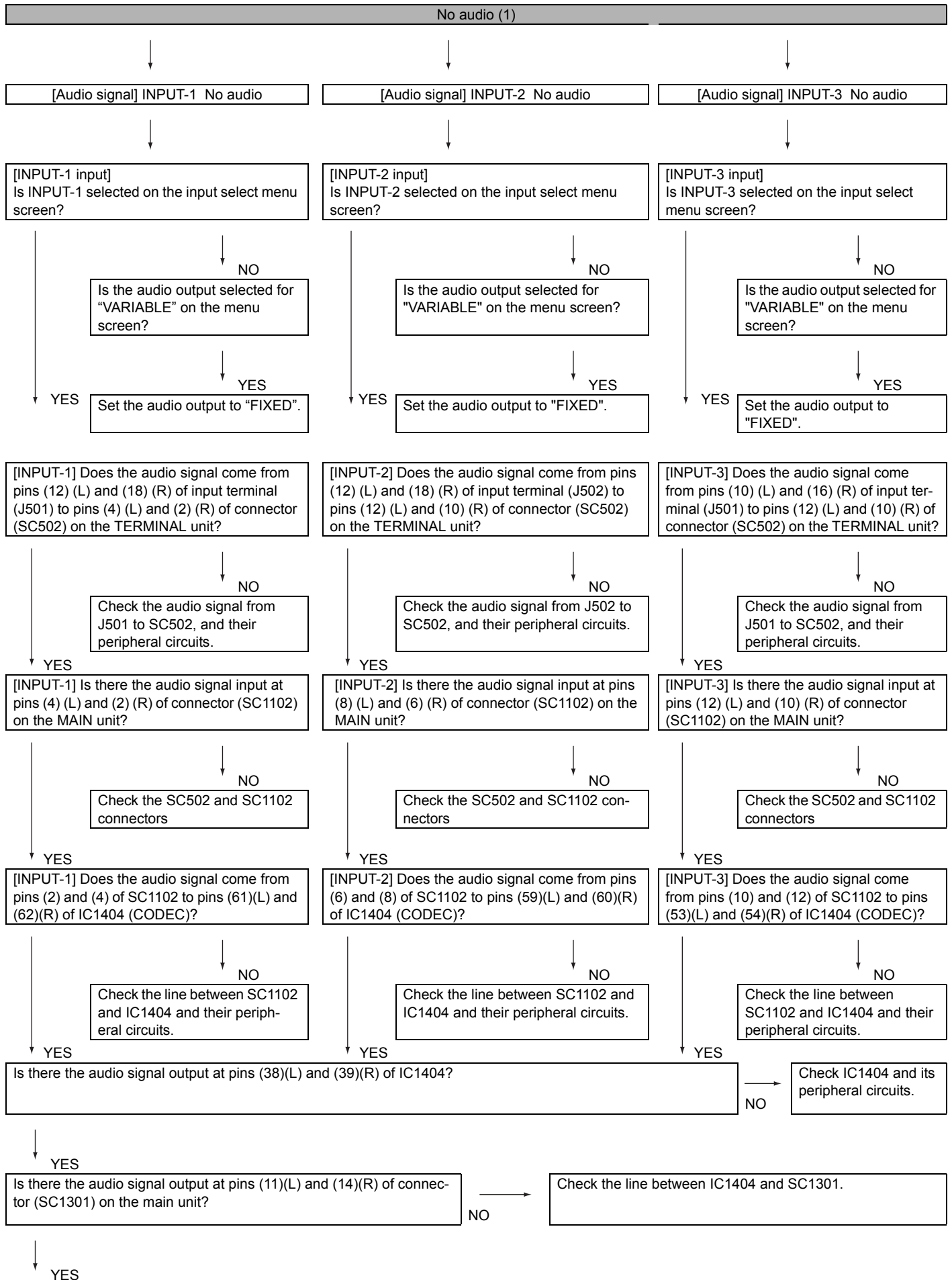




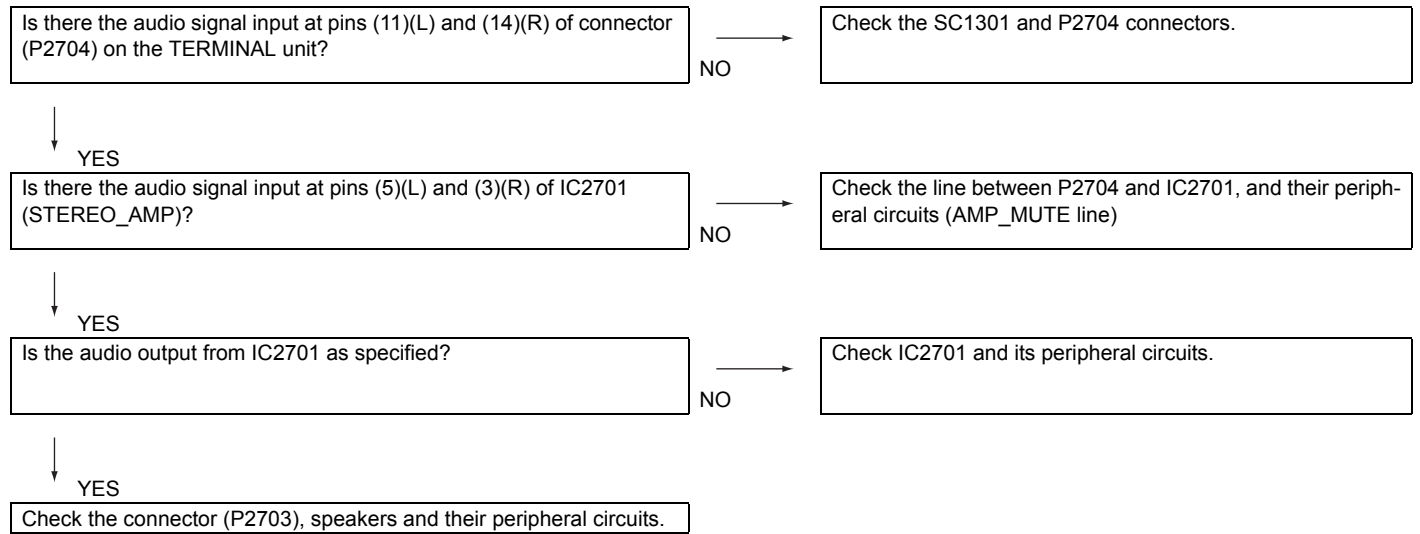


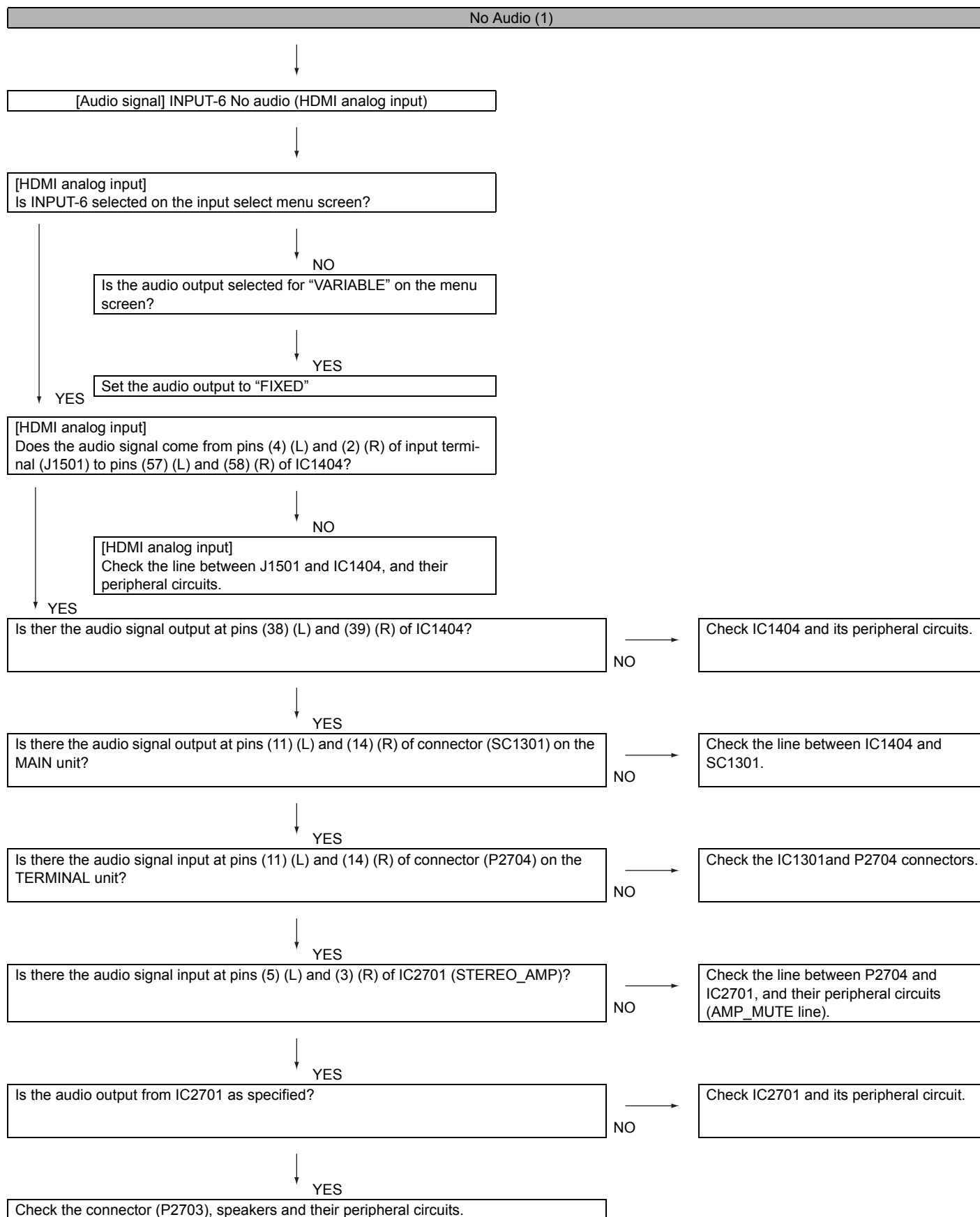


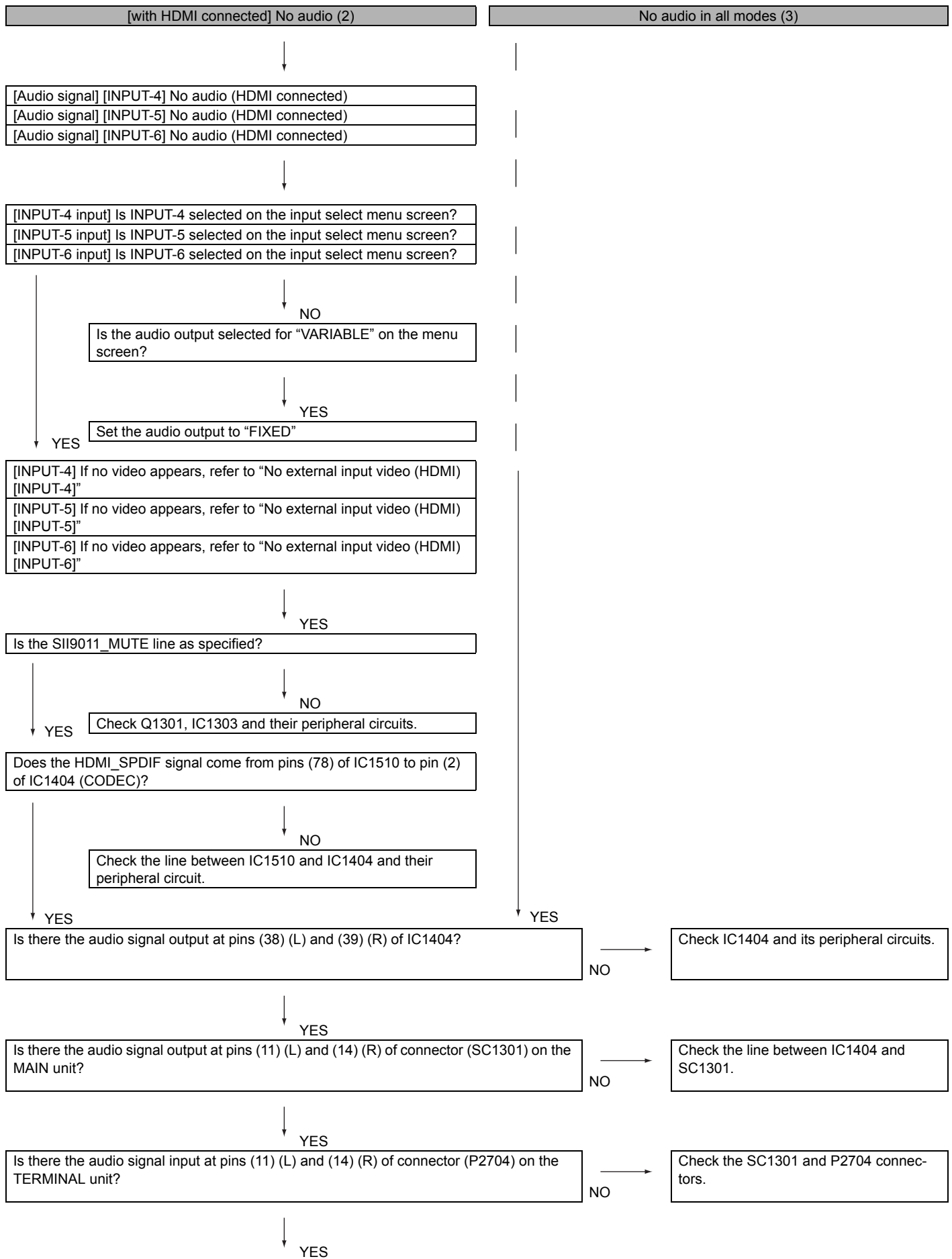




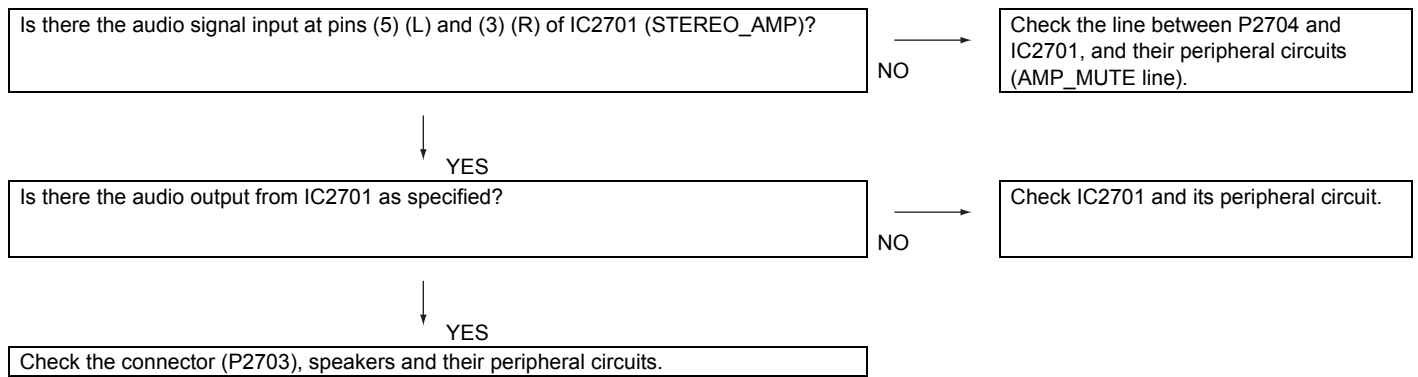
## LC-46D82U/LC-52D82U

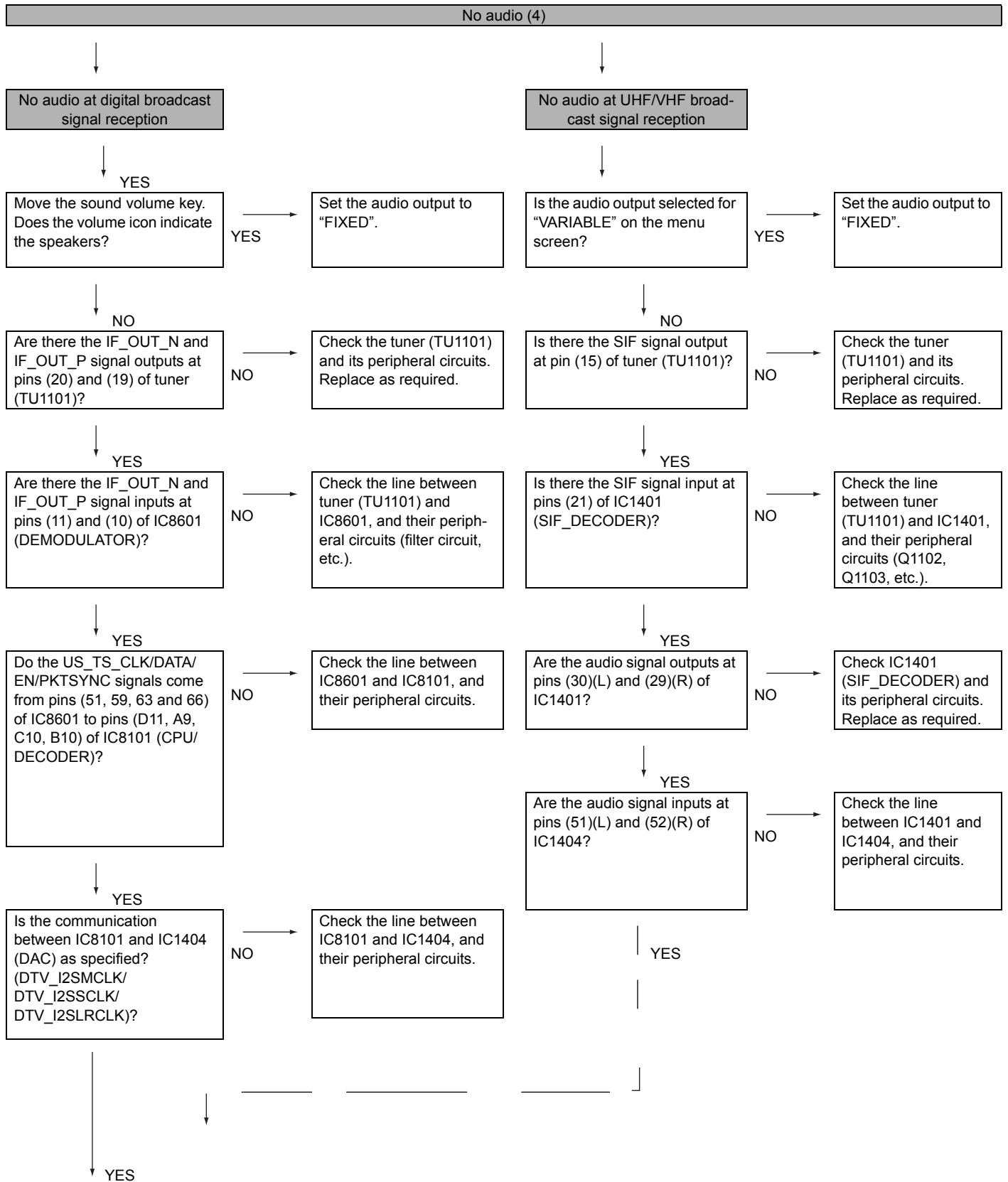


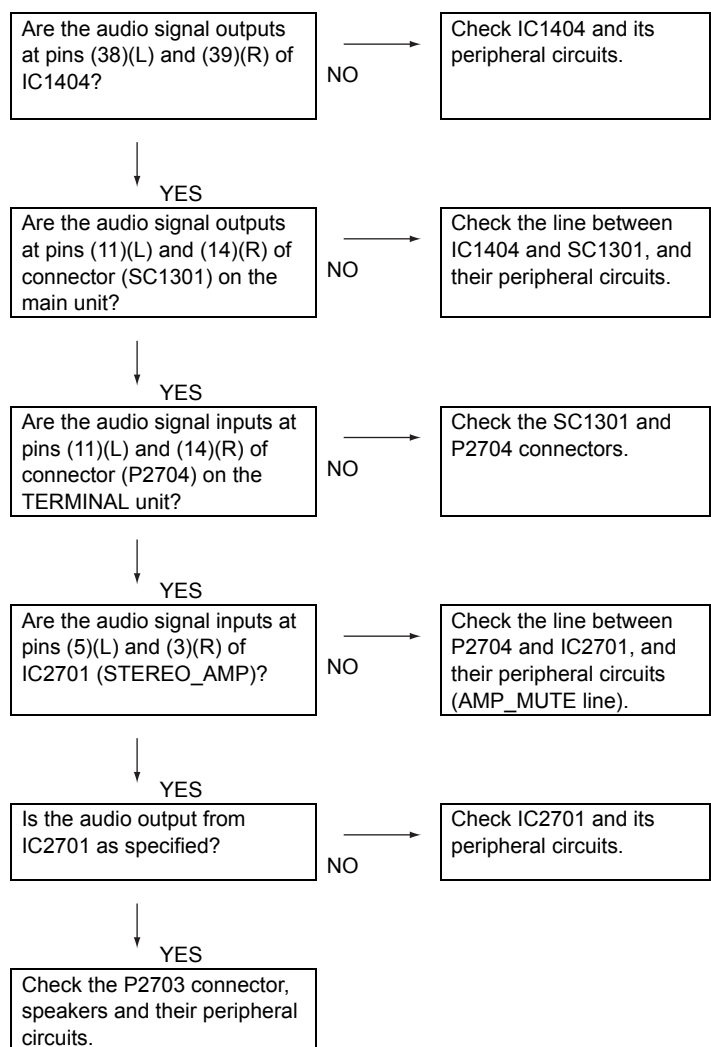


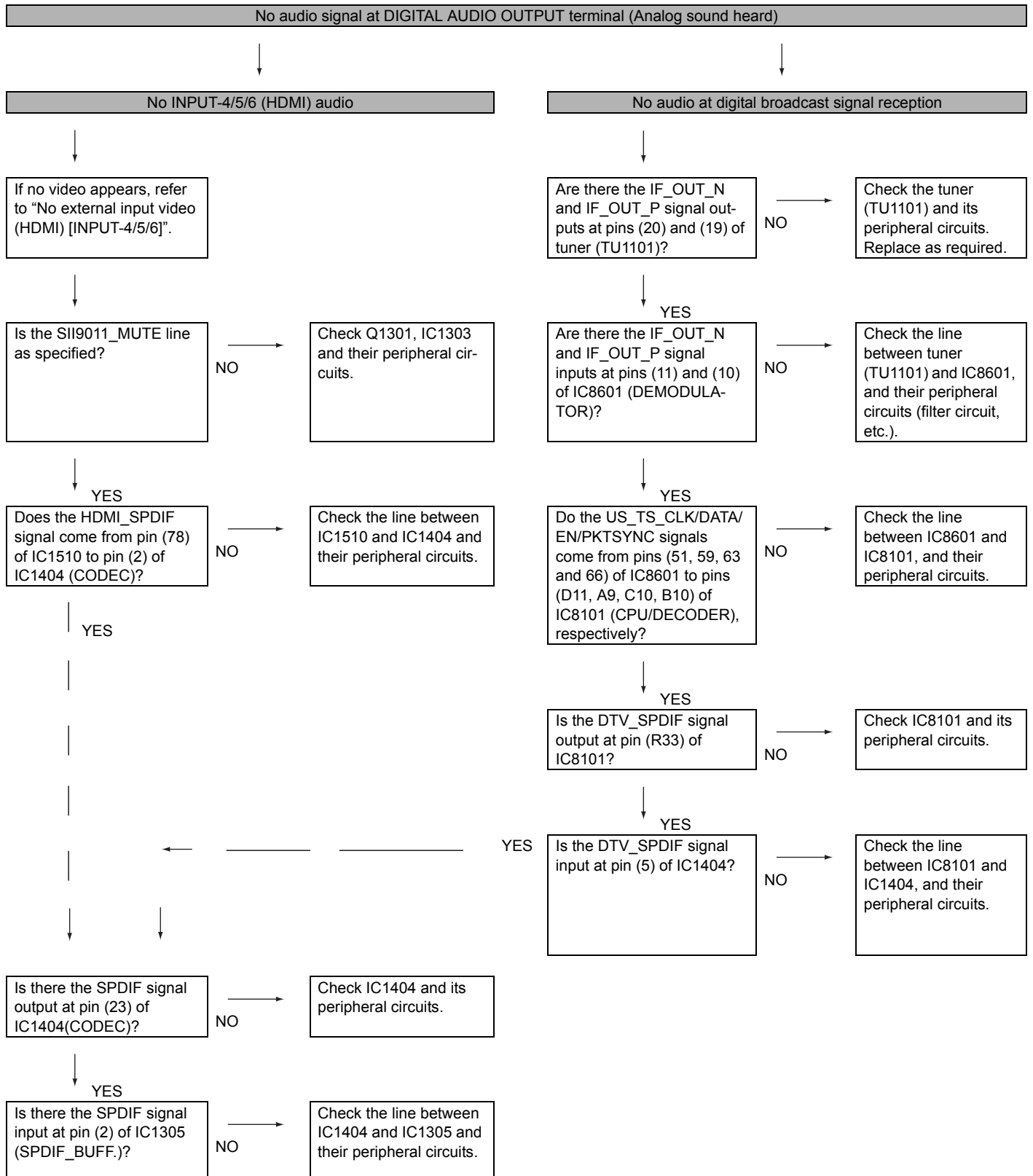


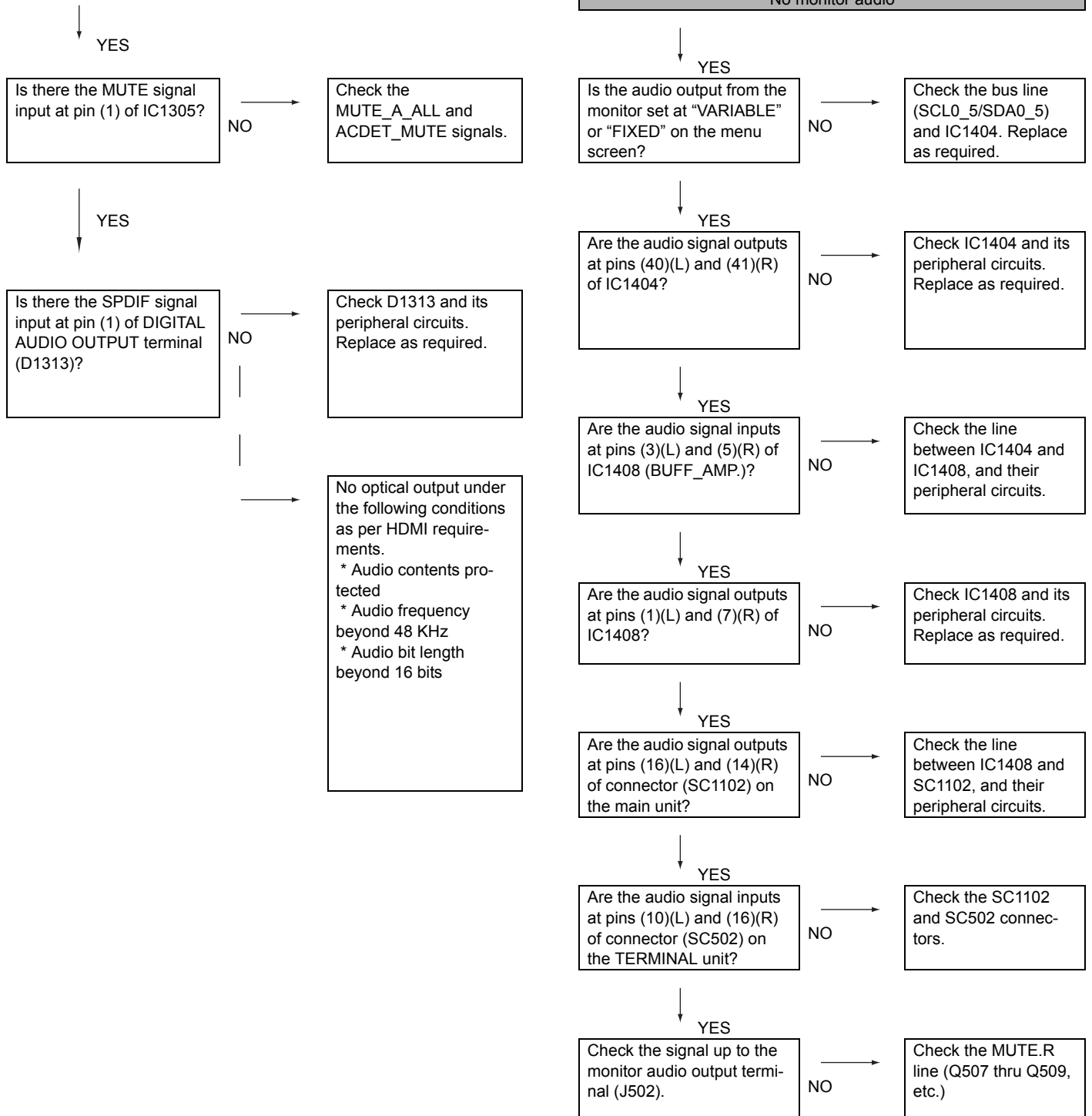




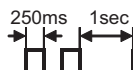








LED flashing timing chart for error notification.

**1) Power LED (The power LED (Green) which lights during TV reception flashes.)**

| Error type                                             | Power red LED operation (1 cycle) | Pins are microprocessor pins.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lamp failure<br>Flashes once: Fast                     | H: On<br>L: Off<br>               | ERR_PNL (pin 43): L failure. Confirmed after 10 consecutive matches at 500 ms intervals (detected only when the back-light is on).<br>Note that after five match counts, the lamp cannot be activated except in the monitoring process. (For the first time, only the inverter is reset, and error OFF is not activated)<br>Accumulated counts are cleared to 0 when the corresponding setting in the process A is made or when the power is turned on with [CH_DOWN] and [VOL_UP] on the unit down or after continuous illumination for 3 minutes. |
| Power failure<br>Flashes twice                         | H: On<br>L: Off<br>               | Refer to "Power failure details".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Communication failure with main CPU<br>Flashes 3 times | H: On<br>L: Off<br>               | Refer to "Communication failure details".<br>Communication line failure or main CPU communication failure. -> Check debug statements for the main CPU.                                                                                                                                                                                                                                                                                                                                                                                              |
| Vsync<br>Trident failure<br>Flashes 4 times            | H: On<br>L: Off<br>               | VSYNC (pin 46) failure (uninput). Trident_IC operation failure.<br>Detected during operation (interruption).<br>Detected during operation (interruption).                                                                                                                                                                                                                                                                                                                                                                                           |
| Monitor temperature failure<br>Flashes 5 times         | H: On<br>L: Off<br>               | If the panel temperature is 60°C or more for 15 seconds or more in a row, CAUTION appears on the OSD of AVC (flashes in red in the lower right screen).<br>If the panel temperature is 60°C or more for 25 seconds or more in a row, error standby is activated.<br>(MONITOR MAX TEMP on page 23 of process A: Change of temperature failure AD value): Thermistor                                                                                                                                                                                  |
| Program data broken<br>Flashes 8 times                 | H: On<br>L: Off<br>               | Internal Flash ROM data is not correct.<br><br>[Restore] Write Monitor Micon software.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**2) Power failure details (Power LED flashes twice and OPC LED flashes)**

| Error type                                 | Notification LED operation (1 cycle) | Pins are microprocessor pins unless otherwise specified.                                                                                                                         |
|--------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PS_ON<br>DET_10V failure<br>Flashes once   | H: On<br>L: Off<br>                  | DET_10V (pin 57). UR10V or A9V is not applied.<br>If error is detected during operation, the power is turned on again by interrupt handling (instantaneous blackout processing). |
| D_POW<br>DET_3V3 failure<br>Flashes twice  | H: On<br>L: Off<br>                  | DET_D3V3 (pin 59) failure (L). D3.3V is not applied.<br>If error is detected during operation, error standby is activated by polling.                                            |
| D_POW<br>DET_6V failure<br>Flashes 3 times | H: On<br>L: Off<br>                  | DET_6V (pin 56) failure (L). D5V or A5V is not applied.<br>If error is detected during operation, error standby is activated by polling.                                         |

| Error type                                      | Notification LED operation (1 cycle)                                                                 | Pins are microprocessor pins unless otherwise specified.                                                                                                                       |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PANEL_POW<br>PNL_12V failure<br>Flashes 5 times | H: On<br>L: Off<br> | DET_PNL_12V (pin 58) failure (L). Panel power is not applied.<br>If error is detected during operation, error standby is activated by polling.                                 |
| Main failure<br>Flashes 7 times                 | H: On<br>L: Off<br> | Main microprocessor detection error (FAN error, 1bitAMP error, etc.)<br>The details are displayed in "ERROR STANDBY CAUSE" on page 1 of process A for the main microprocessor. |

### 3) Communication failure details (Power LED flashes 3 times and OPC LED flashe

| Error type                                                                                     | Notification LED operation (1 cycle)                                                                 | Basically, communication logs are analyzed by a bus monitor or debug print logs are analyzed.                                                                                                                                                         |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Initial communication reception failure<br>Flashes once                                        | H: On<br>L: Off<br> | Initial communication from the main CPU is not received.<br>(After cancelling the reset, request for the monitor model No. is not received.)<br>Communication line failure or main CPU start-up failure.                                              |
| Time-out setting reception failure<br>Start-up confirmation reception failure<br>Flashes twice | H: On<br>L: Off<br> | Time-out setting and start-up mode change cannot be received from the main CPU. (Start-up communication until time-out setting and start-up mode change is not received.)<br>Main CPU start-up failure or monitor microprocessor's reception failure. |
| Regular communication failure<br>Flashes 3 times                                               | H: On<br>L: Off<br> | Regular communication that is performed at 1 second intervals in the normal operation is interrupted.<br>Main CPU operation failure or monitor microprocessor's reception failure.                                                                    |

## CHAPTER 5. MAJOR IC INFORMATIONS

### [1] MAJOR IC INFORMATIONS

#### 1. MAJOR IC INFORMATIONS

##### 1.1. IC501 (MM3151XQ)

This I2C bus-controlled video switch is designed to switch between tow-system color difference (component) signal, one-system S video signal and three-system composite signal.

The analog video signal from the INPUT-1 or INPUT-2 and INPUT-3 input terminal is fed into this IC for selection. The video output signal from this IC flows through a low-pass filter into the video signal processing circuit IC3301 (IXB723WJ).

##### 1.2. IC2701 (TPA3100D)

The Class-D type digital audio power amplifier TPA3100D gives maximum continuous output of 15 W/ch.

##### 1.3. IC1401 (VHiAN5832SA-1Y)

The AN5832SA is an I2C bus-controlled, US-standard analog TV sound multiplexing demodulator IC. It has the following functions built in: SIF demodulation, STEREO demodulation, SAP demodulation, dbx noise reduction, and audio AGC.

##### 1.4. IC1404 (VHiAK4683EQ-1Q)

This IC provides for 2-channel A/D and 4-channel D/A (192-kHz sampling).

The built-in digital audio interfaces DIR (Digital Interface Receiver) and DIT (Digital Interface Transmitter) (192 kHz compatible, 6 inputs/1 output) are compatible with the AES3, IEC60958, S/PDIF, and EIAJ CP1201 standards. Both the DIR and DIT can handle 192-kHz sampling and 24-bit data. The DIR is also equipped with 6-channel input selector that detects not just PCM data but also Dolby Digital and other non-PCM data.

##### 1.5. IC1407 (VHiTAS3108D-1Y)

The TAS3108 is a fully programmable digital audio processor that preserves high-quality audio by using a 48-bit data path, 28-bit filter coefficients, and a single cycle 28 x 48-bit multiplier with a 76-bit accumulator.

It has the following functions built in: 5band PEQ, 256tap Finit Impulse Response Filter, TI Virtual surround, TI Bassboost, Tone Control, and Sub-woofer output.

##### 1.6. IC1507, IC1702 (VHiTMDS341A-1Y)

The TMDS341 single-chip IC is provided with multiple switching function, in which up to 2 HDMI ports can be selected for a single display input terminal.

This 2-port device is also equipped with signal conditioning function and switching function. Each of the ports supports 4-channel TMDS signal, one hot plug detection, and I2C interface. Each of the 4 TMDS channels, in turn, provides maximum 1.65-Gbps signal transmission rate, fixed 8-dB input equalization, and enable/disable 3-dB output de-emphasis function.

On this IC, the INPUT-4/5 HDMI port are switched.

##### 1.7. IC1510 (VHiSii9025+-1Q)

The TMDS receiver IC decodes differential serial-transmitted signal to parallel signal. Compatible with the HDCP system, encrypted signals can also be received.

This IC responds to the INPUT-4, 5, 6, 7 HDMI (High-Definition Multimedia Interface)/DVI selected by IC1507, IC1702.

##### 1.8. IC2002 (RH-iXB986WJQZQ)

The monitor microprocessor is intended to communicate with the main microprocessor and to operate the system. It also controls power of the entire system.

##### 1.9. IC3301 (RH-iXB925WJQZQ)

This video processor consists of an LSI system-on-chip device. For high-precision data processing, it is equipped with a high-precision 166-MHz, 10-bit A/D converter.

For processing analog video signals, this IC supports the NTSC-compatible high-performance multi-format 2D/3D digital Y/C separation video decoder as well as the video format conversion engine. It provides for 10-bit video signal processing.

##### 1.10. IC3501/3502 (RH-iXB822WJQZQ)

These ICs are 128-Mbit GDDR SDRAM (Graphic Double Data Rate Synchronous DRAM), providing a memory for image processing and buffering OSD data.



**1.11. IC8101 (RH-iXB281WJZZQ)**

This LSI with MPEG-2 system decoder performs back-end processing for digital broadcasting. It is equipped with a CPU (processor core: AM33-3), de scrambler (DES), transport stream de-multiplexer, video decoder (MPEG-2 MP@HL compatible), graphic processor, audio decoder (AC3 compatible), and an NTSC video encoder.

After receiving transport stream from the tuner, the LSI decrypts pay-TV broadcasts with the de scrambler. Then using the de-multiplexer, it separates and decodes the compressed audio and video data to send the signals. In the visual system, the graphic processor makes it possible to overlap subtitles and perform scaling. Digital video signals (Y, Pb and Pr, or 480I/P, 720P and 1081I) and down-converted NTSC signals (Y/C and composite, or 480I) can be sent simultaneously. As for the audio system, decoded AC3 audio can be overlapped with sound effects.

The LSI also contains various interfaces (I2C x 2, UART x 3, an SD Memory Card interface, a Cable CARD interface, etc.) and a GPIO. Using these interfaces, the CPU controls peripheral circuits of the tuner, SD Memory Cards, Cable CARDS, etc. One of the UARTs is used by the CPU to establish communications with the monitor microcomputer in the unit, where remote control information or other data is exchanged. Another UART is used for RS-232C serial communications to connect the unit to a PC.

**1.12. IC8301/8302/8303/8304 (RH-iXB765WJQZQ)**

These are 256-Mb (4 Mb x 16 I/O x 4 banks) F-die DDR SDRAMs.

**1.13. IC8451 (RH-iXC132WJQZQ)**

The 64-Mbit page mode flash memory device stores the main CPU program.

**1.14. IC8601 (RH-iXB684WJQZQ)**

The RH-iXB684WJQZQ comprises a family of advanced QAM and VSB demodulator for the Digital Cable Ready and ATSC environments.

This IC is configurable to operate in either the ITU-J.83B/SCTE DVS-031 compliant 64 QAM or 256 QAM modes used by digital cable systems, or the ATSC compliant 8VSB mode used in digital terrestrial broadcasting.

For digitally modulated input signals (QAM or 8VSB), the RH-iXB684WJQZQ outputs a parallel or serial MPEG compliant transport stream.

**1.15. IC8702 (VHITC6384AF1EQ)**

This is a Standard Memory Interface to SD Memory Controller.

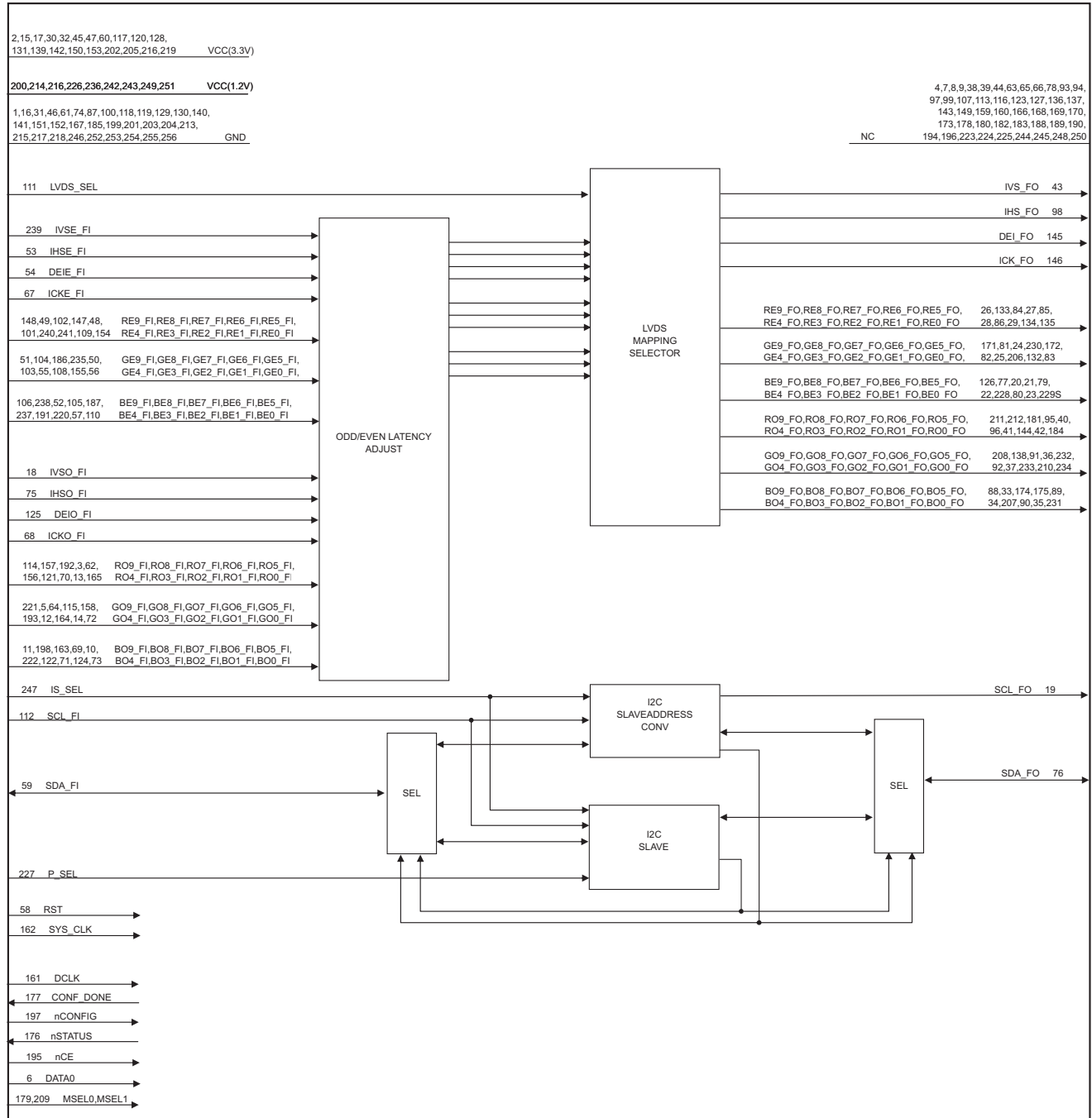
**1.16. IC9101 (RH-iXB997WJQZQ)**

The high-performance CPLD (Complex Programmable Logic Device) is controlled by the main CPU to send control signals to various mounted devices.

**1.17. IC5801 (RH-iXB857WJZZQ)**

This IC improves the moving picture characteristics of LCD TV by converting the frame rate of full HD (1920 x 1080) from 60 fps to 120 fps.

## 1.18. IC6341 (RH-iXC029WJQZQ)

IXC029XJQZ  
FPGA

| Pin No. | Pin Name | I/O | Pin Function                  | device pin |
|---------|----------|-----|-------------------------------|------------|
| 1       | GND      | -   | Ground                        | A1         |
| 2       | VCCIO1   | -   | Power Supply 3.3V             | B1         |
| 3       | RO6_FI   | I   | Red Data Signal Input (ODD)   | C1         |
| 4       | Reserved |     |                               | D1         |
| 5       | GO8_FI   | I   | Green Data Signal Input (ODD) | E1         |
| 6       | DATA0    | I   | Data Signal for Configuration | F1         |
| 7       | TMS      | I   | Inline Program JTAG DataOut   | G1         |
| 8       | CLK1     | -   | Pin for Clock                 | H1         |
| 9       | CLK3     | -   | Pin for Clock                 | J1         |
| 10      | BO5_FI   | I   | Blue Data Signal Input (ODD)  | K1         |
| 11      | BO9_FI   | I   | Blue Data Signal Input (ODD)  | L1         |
| 12      | GO3_FI   | I   | Green Data Signal Input (ODD) | M1         |
| 13      | RO1_FI   | I   | Red Data Signal Input (ODD)   | N1         |

|    |          |     |                                      |     |
|----|----------|-----|--------------------------------------|-----|
| 14 | GO1_FI   | I   | Green Data Signal Input (ODD)        | P1  |
| 15 | VCCIO1   | -   | Power Supply 3.3V                    | R1  |
| 16 | GND      | -   | Ground                               | T1  |
| 17 | VCCIO4   | -   | Power Supply 3.3V                    | T2  |
| 18 | IVSO_FI  | I   | Vertical Sync Signal Input (ODD)     | T3  |
| 19 | SCL_FO   | I/O | SCL Signal Output for I2C            | T4  |
| 20 | BE7_FO   | O   | Blue Data Signal Output (EVEN)       | T5  |
| 21 | BE6_FO   | O   | Blue Data Signal Output (EVEN)       | T6  |
| 22 | BE4_FO   | O   | Blue Data Signal Output (EVEN)       | T7  |
| 23 | BE1_FO   | O   | Blue Data Signal Output (EVEN)       | T8  |
| 24 | GE7_FO   | O   | Green Data Signal Output (EVEN)      | T9  |
| 25 | GE3_FO   | O   | Green Data Signal Output (EVEN)      | T10 |
| 26 | RE9_FO   | O   | Red Data Signal Output (EVEN)        | T11 |
| 27 | RE6_FO   | O   | Red Data Signal Output (EVEN)        | T12 |
| 28 | RE4_FO   | O   | Red Data Signal Output (EVEN)        | T13 |
| 29 | RE2_FO   | O   | Red Data Signal Output (EVEN)        | T14 |
| 30 | VCCIO4   | -   | Power Supply 3.3V                    | T15 |
| 31 | GND      | -   | Ground                               | T16 |
| 32 | VCCIO3   | -   | Power Supply 3.3V                    | R16 |
| 33 | BO8_FO   | O   | Blue Data Signal Output (ODD)        | P16 |
| 34 | BO4_FO   | O   | Blue Data Signal Output (ODD)        | N16 |
| 35 | BO1_FO   | O   | Blue Data Signal Output (ODD)        | M16 |
| 36 | GO6_FO   | O   | Green Data Signal Output (ODD)       | L16 |
| 37 | GO3_FO   | O   | Green Data Signal Output (ODD)       | K16 |
| 38 | CLK7     | -   | Pin for Clock                        | J16 |
| 39 | CLK4     | -   | Pin for Clock                        | H16 |
| 40 | RO5_FO   | O   | Red Data Signal Output (ODD)         | G16 |
| 41 | RO3_FO   | O   | Red Data Signal Output (ODD)         | F16 |
| 42 | RO1_FO   | O   | Red Data Signal Output (ODD)         | E16 |
| 43 | IVS_FO   | O   | Vertical Sync Signal Output          | D16 |
| 44 | Reserved |     |                                      | C16 |
| 45 | VCCIO3   | -   | Power Supply 3.3V                    | B16 |
| 46 | GND      | -   | Ground                               | A16 |
| 47 | VCCIO2   | -   | Power Supply 3.3V                    | A15 |
| 48 | RE5_FI   | I   | Red Data Signal Input (EVEN)         | A14 |
| 49 | RE8_FI   | I   | Red Data Signal Input (EVEN)         | A13 |
| 50 | GE5_FI   | I   | Green Data Signal Input (EVEN)       | A12 |
| 51 | GE9_FI   | I   | Green Data Signal Input (EVEN)       | A11 |
| 52 | BE7_FI   | I   | Blue Data Signal Input (EVEN)        | A10 |
| 53 | IHSE_FI  | I   | Horizontal Sync Signal Input (EVEN)  | A9  |
| 54 | DEIE_FI  | I   | Data Enable Signal Input (EVEN)      | A8  |
| 55 | GE3_FI   | I   | Green Data Signal Input (EVEN)       | A7  |
| 56 | GE0_FI   | I   | Green Data Signal Input (EVEN)       | A6  |
| 57 | BE1_FI   | I   | Blue Data Signal Input (EVEN)        | A5  |
| 58 | RST      | I   | RESET Signal (RESET at Lo)           | A4  |
| 59 | SDA_FI   | I/O | SDA Signal for I2C (Main PWB ↔ FPGA) | A3  |
| 60 | VCCIO2   | -   | Power Supply 3.3V                    | A2  |
| 61 | GND      | -   | Ground                               | B2  |
| 62 | RO5_FI   | I   | Red Data Signal Input (ODD)          | C2  |
| 63 | Reserved |     |                                      | D2  |
| 64 | GO7_FI   | I   | Green Data Signal Input (ODD)        | E2  |
| 65 | TCK      | I   | Inline Program JTAG TMS              | F2  |
| 66 | TDO      | I   | Inline Program JTAG Clock            | G2  |
| 67 | ICKE_FI  | I   | Pixel Clock Input (EVEN)             | H2  |
| 68 | ICKO_FI  | I   | Pixel Clock Input (ODD)              | J2  |
| 69 | BO6_FI   | I   | Blue Data Signal Input (ODD)         | K2  |
| 70 | RO2_FI   | I   | Red Data Signal Input (ODD)          | L2  |
| 71 | BO2_FI   | I   | Blue Data Signal Input (ODD)         | M2  |
| 72 | GO0_FI   | I   | Green Data Signal Input (ODD)        | N2  |
| 73 | BO0_FI   | I   | Blue Data Signal Input (ODD)         | P2  |
| 74 | GND      | -   | Ground                               | R2  |
| 75 | IHSO_FI  | I   | Horizontal Sync Signal Input (ODD)   | R3  |
| 76 | SDA_FO   | I/O | SDA Signal for I2C (FPGA ↔ IXB857WJ) | R4  |
| 77 | BE8_FO   | O   | Blue Data Signal Output (EVEN)       | R5  |
| 78 | Reserved |     |                                      | R6  |

|     |          |   |                                                                  |     |
|-----|----------|---|------------------------------------------------------------------|-----|
| 79  | BE5_FO   | O | Blue Data Signal Output (EVEN)                                   | R7  |
| 80  | BE2_FO   | O | Blue Data Signal Output (EVEN)                                   | R8  |
| 81  | GE8_FO   | O | Green Data Signal Output (EVEN)                                  | R9  |
| 82  | GE4_FO   | O | Green Data Signal Output (EVEN)                                  | R10 |
| 83  | GE0_FO   | O | Green Data Signal Output (EVEN)                                  | R11 |
| 84  | RE7_FO   | O | Red Data Signal Output (EVEN)                                    | R12 |
| 85  | RE5_FO   | O | Red Data Signal Output (EVEN)                                    | R13 |
| 86  | RE3_FO   | O | Red Data Signal Output (EVEN)                                    | R14 |
| 87  | GND      | - | Ground                                                           | R15 |
| 88  | BO9_FO   | O | Blue Data Signal Output (ODD)                                    | P15 |
| 89  | BO5_FO   | O | Blue Data Signal Output (ODD)                                    | N15 |
| 90  | BO2_FO   | O | Blue Data Signal Output (ODD)                                    | M15 |
| 91  | GO7_FO   | O | Green Data Signal Output (ODD)                                   | L15 |
| 92  | GO4_FO   | O | Green Data Signal Output (ODD)                                   | K15 |
| 93  | CLK6     | - | Pin for Clock                                                    | J15 |
| 94  | CLK5     | - | Pin for Clock                                                    | H15 |
| 95  | RO6_FO   | O | Red Data Signal Output (ODD)                                     | G15 |
| 96  | RO4_FO   | O | Red Data Signal Output (ODD)                                     | F15 |
| 97  | Reserved |   |                                                                  | E15 |
| 98  | IHS_FO   | O | Horizontal Sync Signal Input                                     | D15 |
| 99  | Reserved |   |                                                                  | C15 |
| 100 | GND      | - | Ground                                                           | B15 |
| 101 | RE4_FI   | I | Red Data Signal Input (EVEN)                                     | B14 |
| 102 | RE7_FI   | I | Red Data Signal Input (EVEN)                                     | B13 |
| 103 | GE4_FI   | I | Green Data Signal Input (EVEN)                                   | B12 |
| 104 | GE8_FI   | I | Green Data Signal Input (EVEN)                                   | B11 |
| 105 | BE6_FI   | I | Blue Data Signal Input (EVEN)                                    | B10 |
| 106 | BE9_FI   | I | Blue Data Signal Input (EVEN)                                    | B9  |
| 107 | Reserved |   |                                                                  | B8  |
| 108 | GE2_FI   | I | Green Data Signal Input (EVEN)                                   | B7  |
| 109 | RE1_FI   | I | Red Data Signal Input (EVEN)                                     | B6  |
| 110 | BE0_FI   | I | Blue Data Signal Input (EVEN)                                    | B5  |
| 111 | LVDS_SEL | I | LVDS Mapping Switching Signal(0:National Semiconductor, 1:THine) | B4  |
| 112 | SCL_FI   | I | SCL Signal Input for I2C                                         | B3  |
| 113 | NC       | - |                                                                  | C3  |
| 114 | RO9_FI   | I | Red Data Signal Input (ODD)                                      | D3  |
| 115 | GO6_FI   | I | Green Data Signal Input (ODD)                                    | E3  |
| 116 | NC       | - |                                                                  | F3  |
| 117 | VCCIO1   | - | Power Supply 3.3V                                                | G3  |
| 118 | GND      | - | Ground                                                           | H3  |
| 119 | GND      | - | Ground                                                           | J3  |
| 120 | VCCIO1   | - | Power Supply 3.3V                                                | K3  |
| 121 | RO3_FI   | I | Red Data Signal Input (ODD)                                      | L3  |
| 122 | BO3_FI   | I | Blue Data Signal Input (ODD)                                     | M3  |
| 123 | Reserved |   |                                                                  | N3  |
| 124 | BO1_FI   | I | Blue Data Signal Input (ODD)                                     | P3  |
| 125 | DEIO_FI  | I | Data Enable Signal Output (ODD)                                  | P4  |
| 126 | BE9_FO   | O | Blue Data Signal Output (EVEN)                                   | P5  |
| 127 | Reserved |   |                                                                  | P6  |
| 128 | VCCIO4   | - | Power Supply 3.3V                                                | P7  |
| 129 | GND      | - | Ground                                                           | P8  |
| 130 | GND      | - | Ground                                                           | P9  |
| 131 | VCCIO4   | - | Power Supply 3.3V                                                | P10 |
| 132 | GE1_FO   | O | Green Data Signal Output (EVEN)                                  | P11 |
| 133 | RE8_FO   | O | Red Data Signal Output (EVEN)                                    | P12 |
| 134 | RE1_FO   | O | Red Data Signal Output (EVEN)                                    | P13 |
| 135 | RE0_FO   | O | Red Data Signal Output (EVEN)                                    | P14 |
| 136 | NC       | - |                                                                  | N14 |
| 137 | NC       | - |                                                                  | M14 |
| 138 | GO8_FO   | O | Green Data Signal Output (ODD)                                   | L14 |
| 139 | VCCIO3   | - | Power Supply 3.3V                                                | K14 |
| 140 | GND      | - | Ground                                                           | J14 |
| 141 | GND      | - | Ground                                                           | H14 |
| 142 | VCCIO3   | - | Power Supply 3.3V                                                | G14 |
| 143 | Reserved |   |                                                                  | F14 |

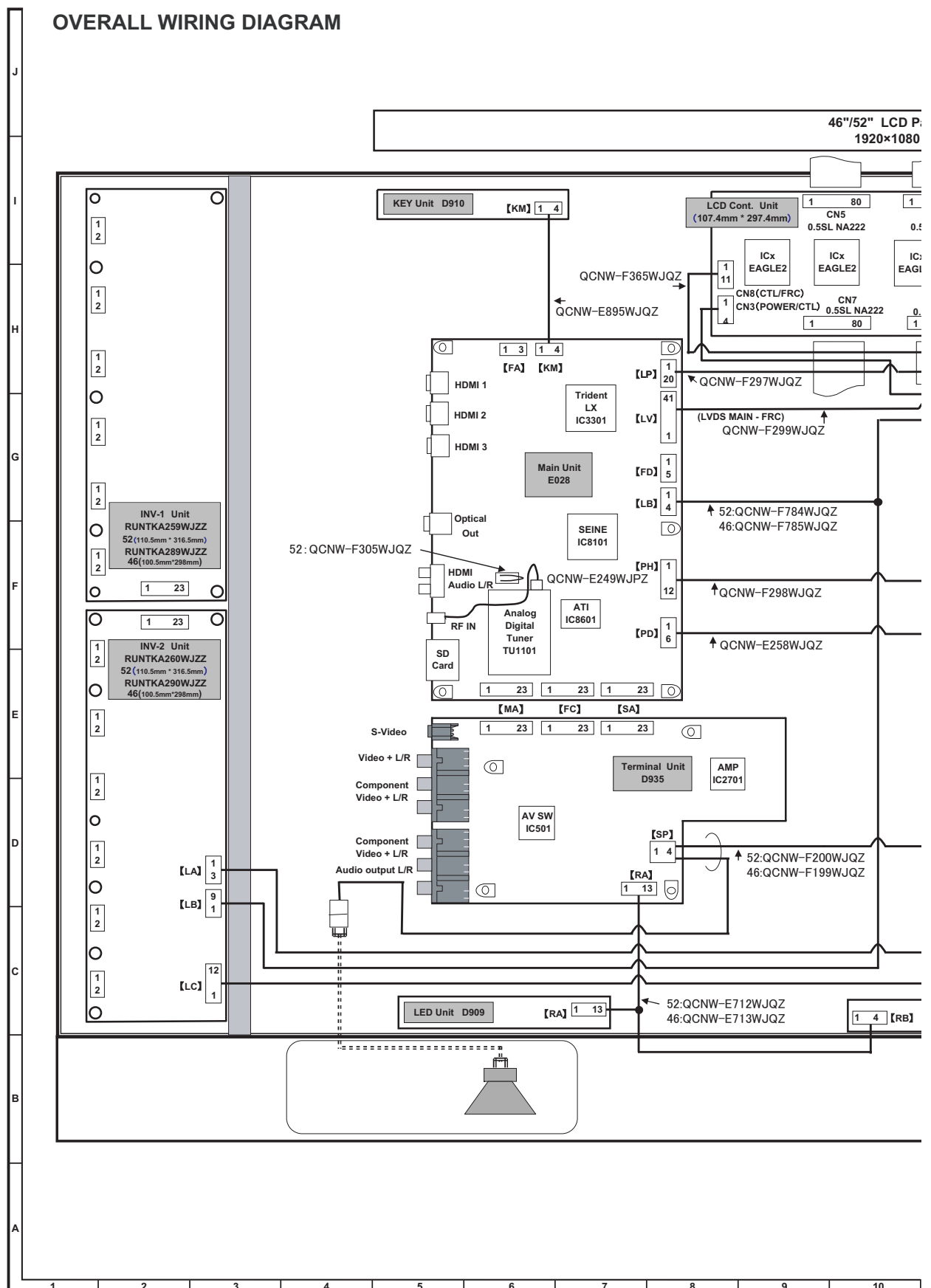
|     |           |   |                                     |     |
|-----|-----------|---|-------------------------------------|-----|
| 144 | RO2_FO    | O | Red Data Signal Output (ODD)        | E14 |
| 145 | DEI_FO    | O | Data Enable Signal Output           | D14 |
| 146 | ICK_FO    | O | Pixel Clock Output                  | C14 |
| 147 | RE6_FI    | I | Red Data Signal Input (EVEN)        | C13 |
| 148 | RE9_FI    | I | Red Data Signal Input (EVEN)        | C12 |
| 149 | NC        | - |                                     | C11 |
| 150 | VCCIO2    | - | Power Supply 3.3V                   | C10 |
| 151 | GND       | - | Ground                              | C9  |
| 152 | GND       | - | Ground                              | C8  |
| 153 | VCCIO2    | - | Power Supply 3.3V                   | C7  |
| 154 | RE0_FI    | I | Red Data Signal Input (EVEN)        | C6  |
| 155 | GE1_FI    | I | Green Data Signal Input (EVEN)      | C5  |
| 156 | RO4_FI    | I | Red Data Signal Input (ODD)         | C4  |
| 157 | RO8_FI    | I | Red Data Signal Input (ODD)         | D4  |
| 158 | GO5_FI    | I | Green Data Signal Input (ODD)       | E4  |
| 159 | NC        | - |                                     | F4  |
| 160 | Reserved  |   |                                     | G4  |
| 161 | DCLK      | I | Clock for Configuration             | H4  |
| 162 | SYS_CLK   | I | X'tal (33MHz)                       | J4  |
| 163 | BO7_FI    | I | Blue Data Signal Input (ODD)        | K4  |
| 164 | GO2_FI    | I | Green Data Signal Input (ODD)       | L4  |
| 165 | RO0_FI    | I | Red Data Signal Input (ODD)         | M4  |
| 166 | Reserved  |   |                                     | N4  |
| 167 | GND_PLL1  | - | Ground                              | N5  |
| 168 | Reserved  |   |                                     | N6  |
| 169 | Reserved  |   |                                     | N7  |
| 170 | NC        | - |                                     | N8  |
| 171 | GE9_FO    | O | Green Data Signal Output (EVEN)     | N9  |
| 172 | GE5_FO    | O | Green Data Signal Output (EVEN)     | N10 |
| 173 | NC        | - |                                     | N11 |
| 174 | BO7_FO    | O | Blue Data Signal Output (ODD)       | N12 |
| 175 | BO6_FO    | O | Blue Data Signal Output (ODD)       | N13 |
| 176 | nSTATUS   | O | Status Signal during Configuration  | M13 |
| 177 | CONF_DONE | O | Configuration End Signal            | L13 |
| 178 | Reserved  |   |                                     | K13 |
| 179 | MSEL0     | I | Configuration Mode Switching Signal | J13 |
| 180 | NC        | - |                                     | H13 |
| 181 | RO7_FO    | O | Red Data Signal Output (ODD)        | G13 |
| 182 | Reserved  |   |                                     | F13 |
| 183 | Reserved  |   |                                     | E13 |
| 184 | RO0_FO    | O | Red Data Signal Output (ODD)        | D13 |
| 185 | GND_PLL2  | - | Ground                              | D12 |
| 186 | GE7_FI    | I | Green Data Signal Input (EVEN)      | D11 |
| 187 | BE5_FI    | I | Blue Data Signal Input (EVEN)       | D10 |
| 188 | Reserved  |   |                                     | D9  |
| 189 | NC        | - |                                     | D8  |
| 190 | Reserved  |   |                                     | D7  |
| 191 | BE3_FI    | I | Blue Data Signal Input (EVEN)       | D6  |
| 192 | RO7_FI    | I | Red Data Signal Input (ODD)         | D5  |
| 193 | GO4_FI    | I | Green Data Signal Input (ODD)       | E5  |
| 194 | Reserved  |   |                                     | F5  |
| 195 | nCE       | I | CHIP Enable Signal                  | G5  |
| 196 | TDI       | I | Inline Program JTAG DataIn          | H5  |
| 197 | nCONFIG   | I | Configuration Start Signal          | J5  |
| 198 | BO8_FI    | I | Blue Data Signal Input (ODD)        | K5  |
| 199 | GND_PLL1  | - | Ground                              | L5  |
| 200 | VCCA_PLL1 | - | Power Supply 1.2V                   | M5  |
| 201 | GNDA_PLL1 | - | Ground                              | M6  |
| 202 | VCCIO4    | - | Power Supply 3.3V                   | M7  |
| 203 | GND       | - | Ground                              | M8  |
| 204 | GND       | - | Ground                              | M9  |
| 205 | VCCIO4    | - | Power Supply 3.3V                   | M10 |
| 206 | GE2_FO    | O | Green Data Signal Output (EVEN)     | M11 |
| 207 | BO3_FO    | O | Blue Data Signal Output (ODD)       | M12 |
| 208 | GO9_FO    | O | Green Data Signal Output (ODD)      | L12 |

|     |           |   |                                     |     |
|-----|-----------|---|-------------------------------------|-----|
| 209 | MSEL1     | I | Configuration Mode Switching Signal | K12 |
| 210 | GO1_FO    | O | Green Data Signal Output (ODD)      | J12 |
| 211 | RO9_FO    | O | Red Data Signal Output (ODD)        | H12 |
| 212 | RO8_FO    | O | Red Data Signal Output (ODD)        | G12 |
| 213 | GND_PLL2  | - | Ground                              | F12 |
| 214 | VCCA_PLL2 | - | Power Supply 1.2V                   | E12 |
| 215 | GND_PLL2  | - | Ground                              | E11 |
| 216 | VCCIO2    | - | Power Supply 3.3V                   | E10 |
| 217 | GND       | - | Ground                              | E9  |
| 218 | GND       | - | Ground                              | E8  |
| 219 | VCCIO2    | - | Power Supply 3.3V                   | E7  |
| 220 | BE2_FI    | I | Blue Data Signal Input (EVEN)       | E6  |
| 221 | GO9_FI    | I | Green Data Signal Input (ODD)       | F6  |
| 222 | BO4_FI    | I | Blue Data Signal Input (ODD)        | G6  |
| 223 | Reserved  |   |                                     | H6  |
| 224 | Reserved  |   |                                     | J6  |
| 225 | Reserved  |   |                                     | K6  |
| 226 | VCCD_PLL1 | - | Power Supply 1.2V                   | L6  |
| 227 | P_SEL     | I | Panel Drive System Switching Signal | L7  |
| 228 | BE3_FO    | O | Blue Data Signal Output (EVEN)      | L8  |
| 229 | BE0_FO    | O | Blue Data Signal Output (EVEN)      | L9  |
| 230 | GE6_FO    | O | Green Data Signal Output (EVEN)     | L10 |
| 231 | BO0_FO    | O | Blue Data Signal Output (ODD)       | L11 |
| 232 | GO5_FO    | O | Green Data Signal Output (ODD)      | K11 |
| 233 | GO2_FO    | O | Green Data Signal Output (ODD)      | J11 |
| 234 | GO0_FO    | O | Green Data Signal Output (ODD)      | H11 |
| 235 | GE6_FI    | I | Green Data Signal Input (EVEN)      | G11 |
| 236 | VCCD_PLL2 | - | Power Supply 1.2V                   | F11 |
| 237 | BE4_FI    | I | Blue Data Signal Input (EVEN)       | F10 |
| 238 | BE8_FI    | I | Blue Data Signal Input (EVEN)       | F9  |
| 239 | IVSE_FI   | I | Vertical Sync Signal Input(EVEN)    | F8  |
| 240 | RE3_FI    | I | Red Data Signal Input (EVEN)        | F7  |
| 241 | RE2_FI    | I | Red Data Signal Input (EVEN)        | G7  |
| 242 | VCCINT    | - | Power Supply 1.2V                   | H7  |
| 243 | VCCINT    | - | Power Supply 1.2V                   | J7  |
| 244 | Reserved  |   |                                     | K7  |
| 245 | Reserved  |   |                                     | K8  |
| 246 | GND       | - | Ground                              | K9  |
| 247 | IS_SEL    | I | I2C Slave Address Switching Signal  | K10 |
| 248 | Reserved  |   |                                     | J10 |
| 249 | VCCINT    | - | Power Supply 1.2V                   | H10 |
| 250 | DA_SEL    | I | General-Purpose Input               | G10 |
| 251 | VCCINT    | - | Power Supply 1.2V                   | G9  |
| 252 | GND       | - | Ground                              | G8  |
| 253 | GND       | - | Ground                              | H8  |
| 254 | GND       | - | Ground                              | J8  |
| 255 | GND       | - | Ground                              | J9  |
| 256 | GND       | - | Ground                              | H9  |

— MEMO —

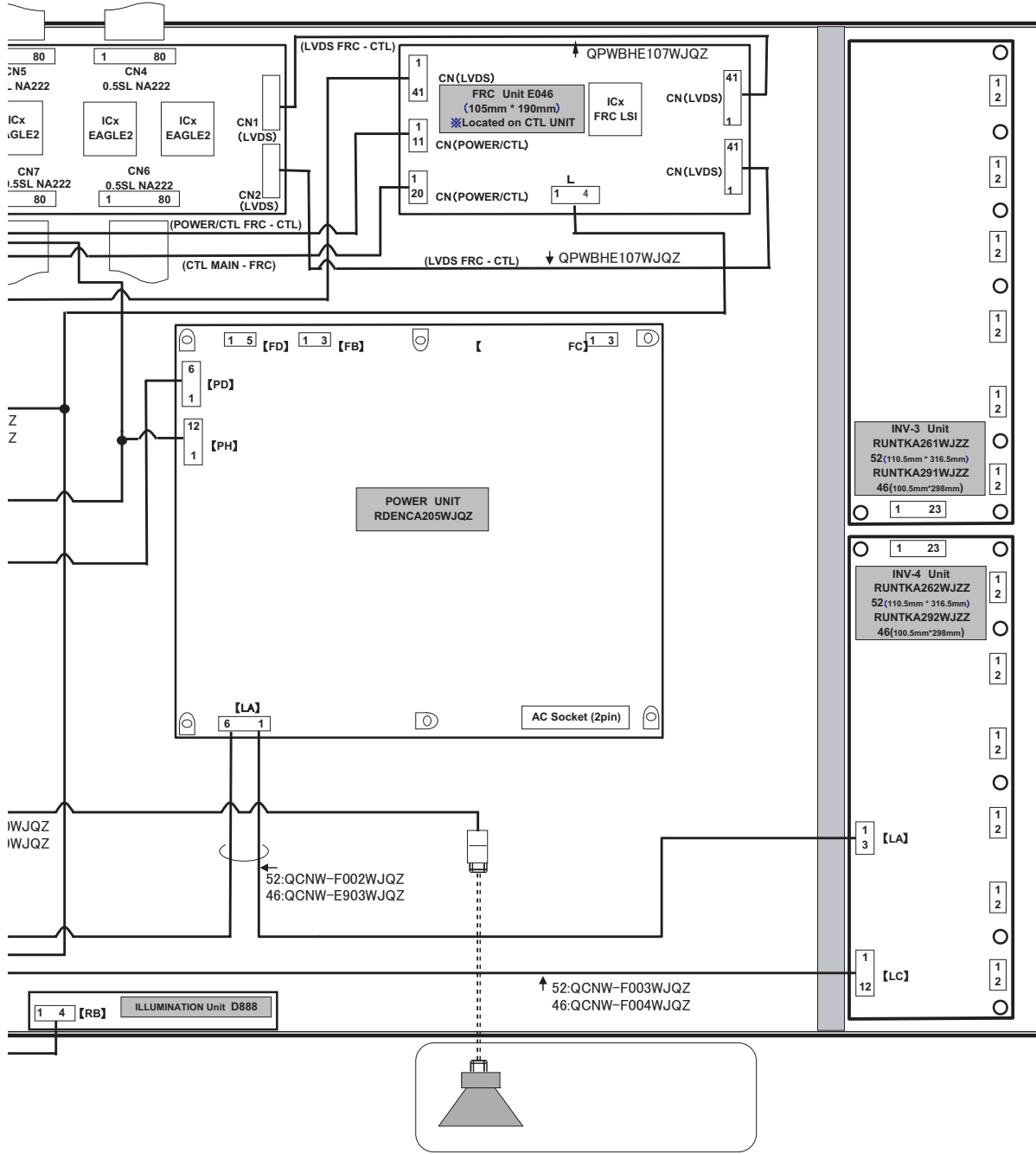
# CHAPTER 6. OVERALL WIRING DIAGRAM/BLOCK DIAGRAM

## [1] OVERALL WIRING DIAGRAM





46"/52" LCD Panel  
1920×1080

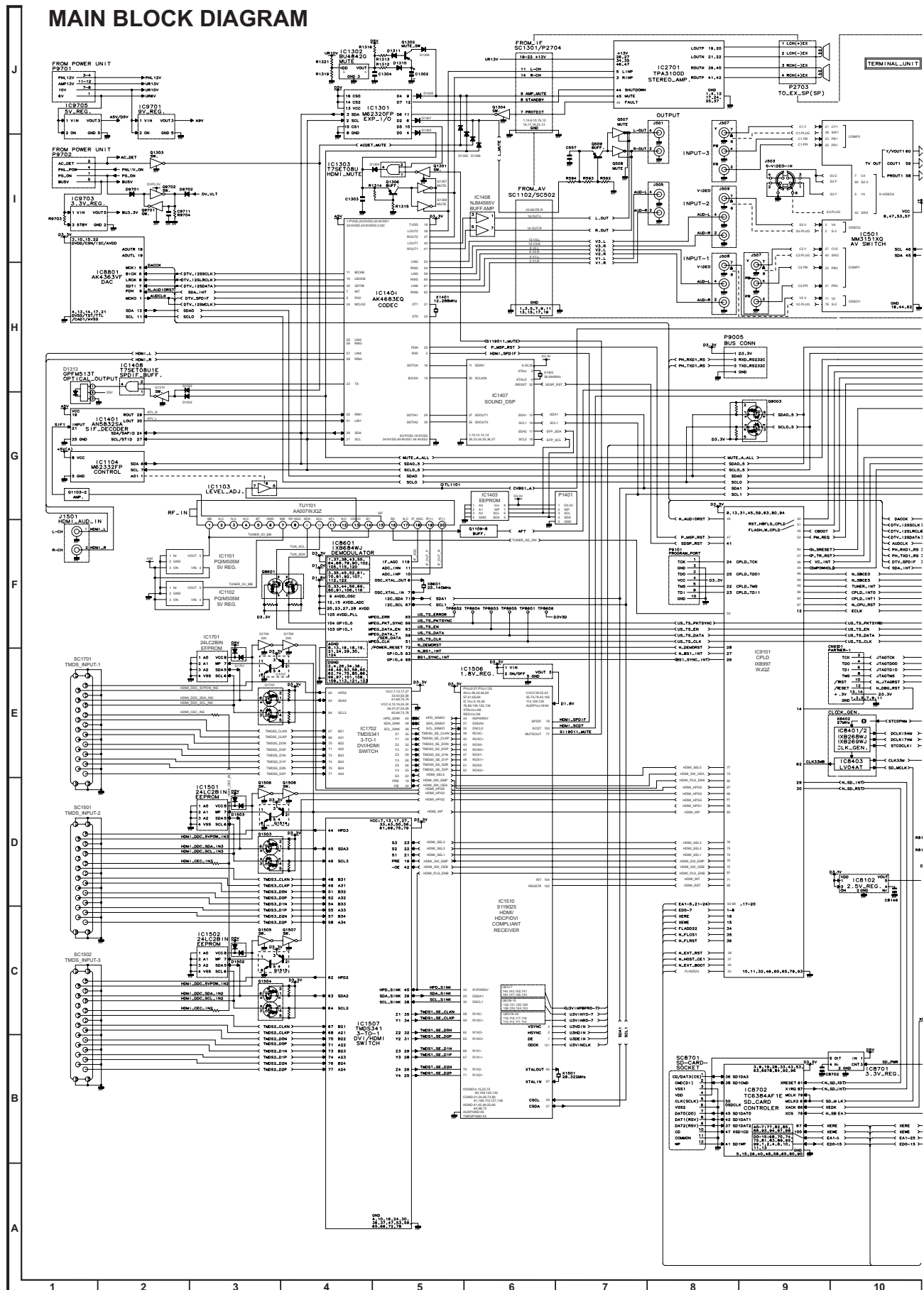


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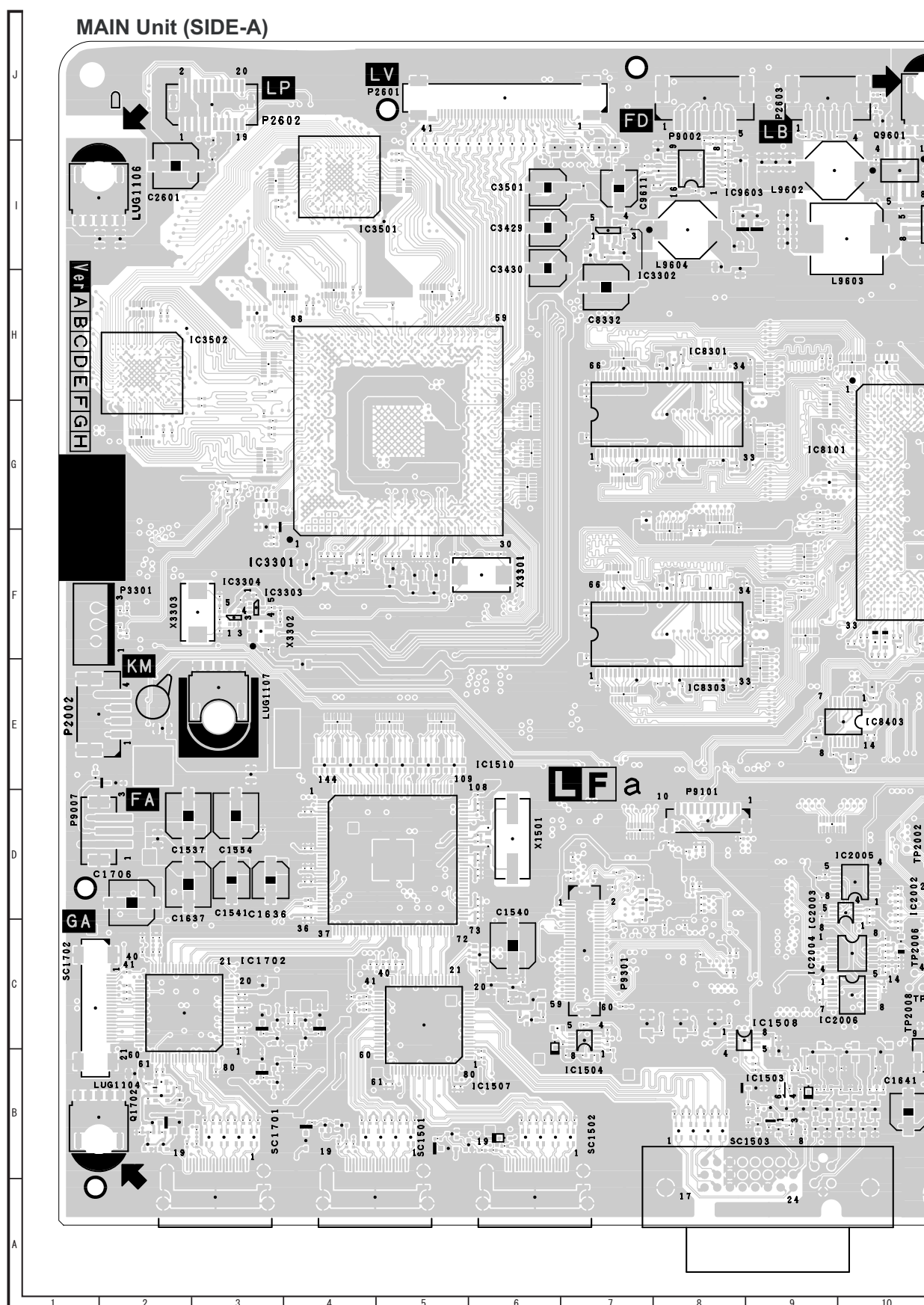
## [3] MAIN BLOCK DIAGRAM

## MAIN BLOCK DIAGRAM





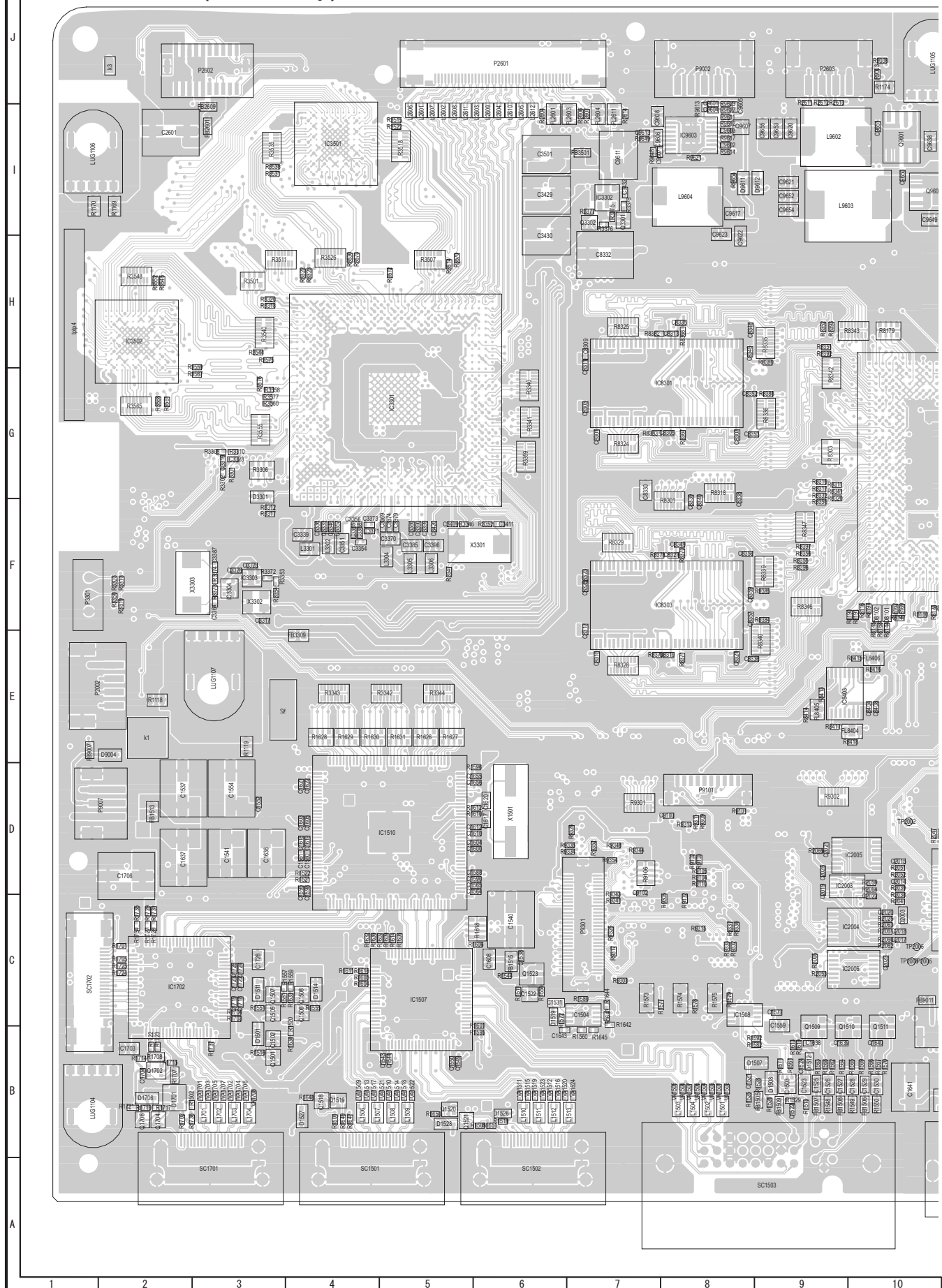
## [1] MAIN UNIT PRINTED WIRING BOARD



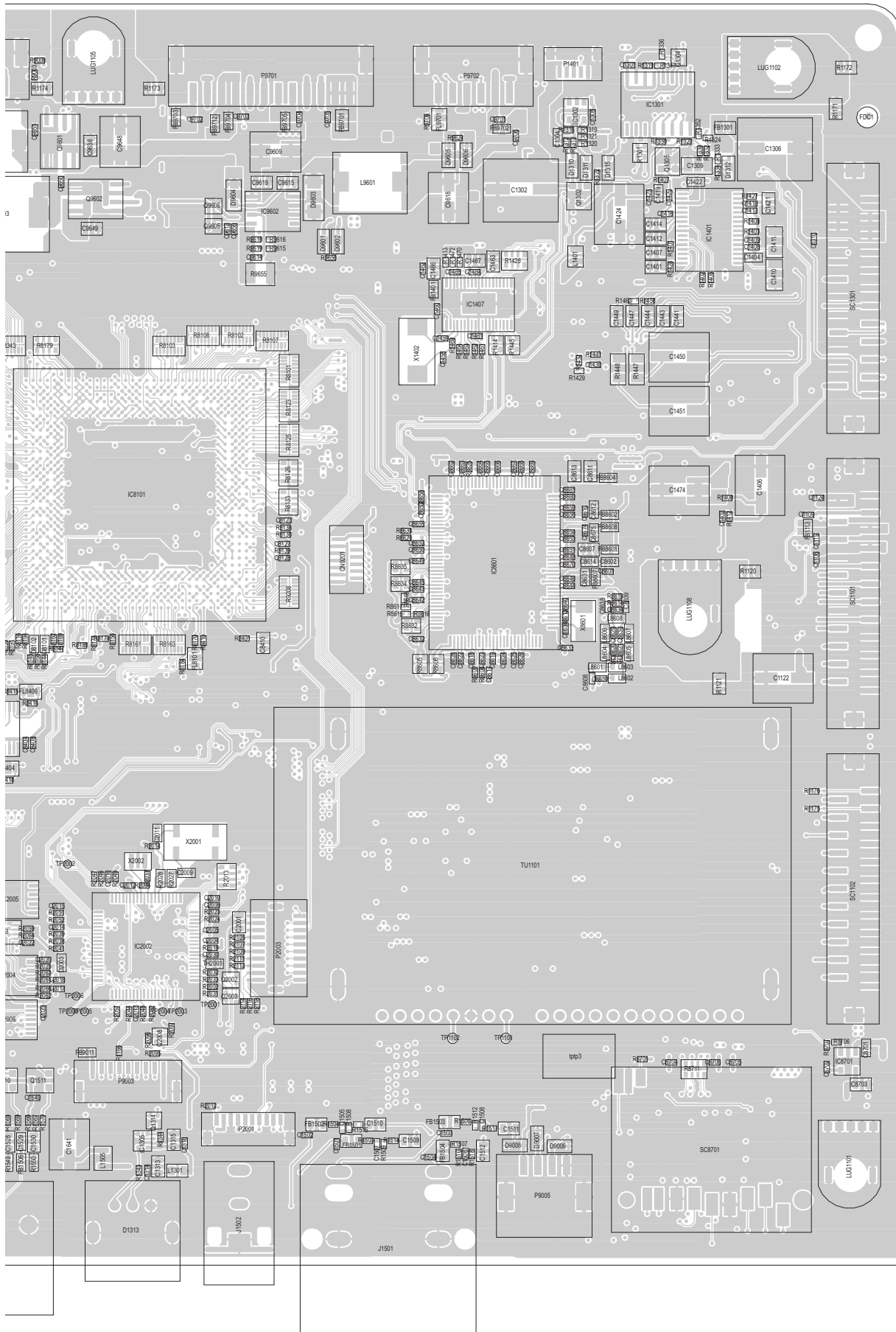




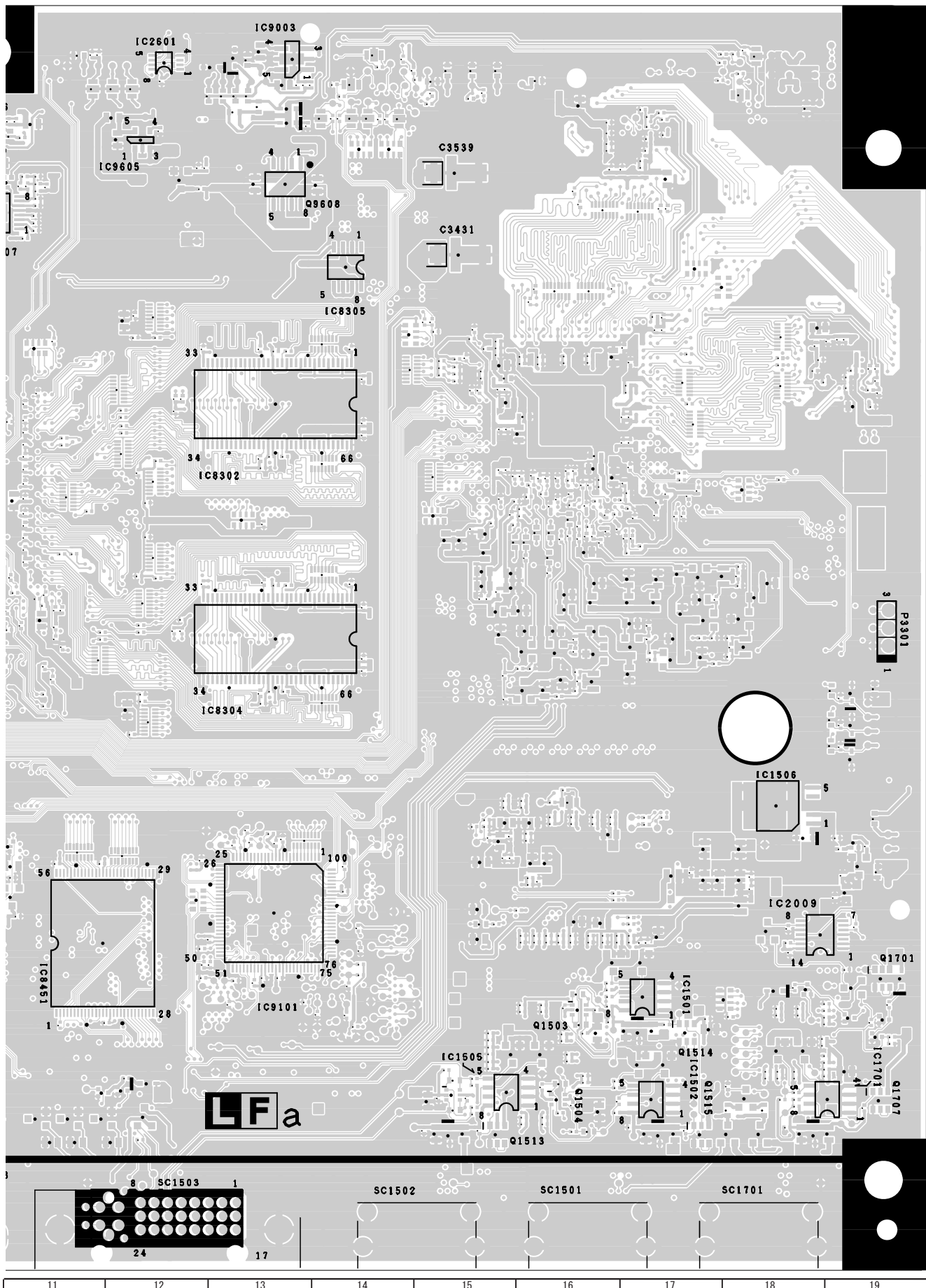
## MAIN Unit-1 (Side-A Chip)



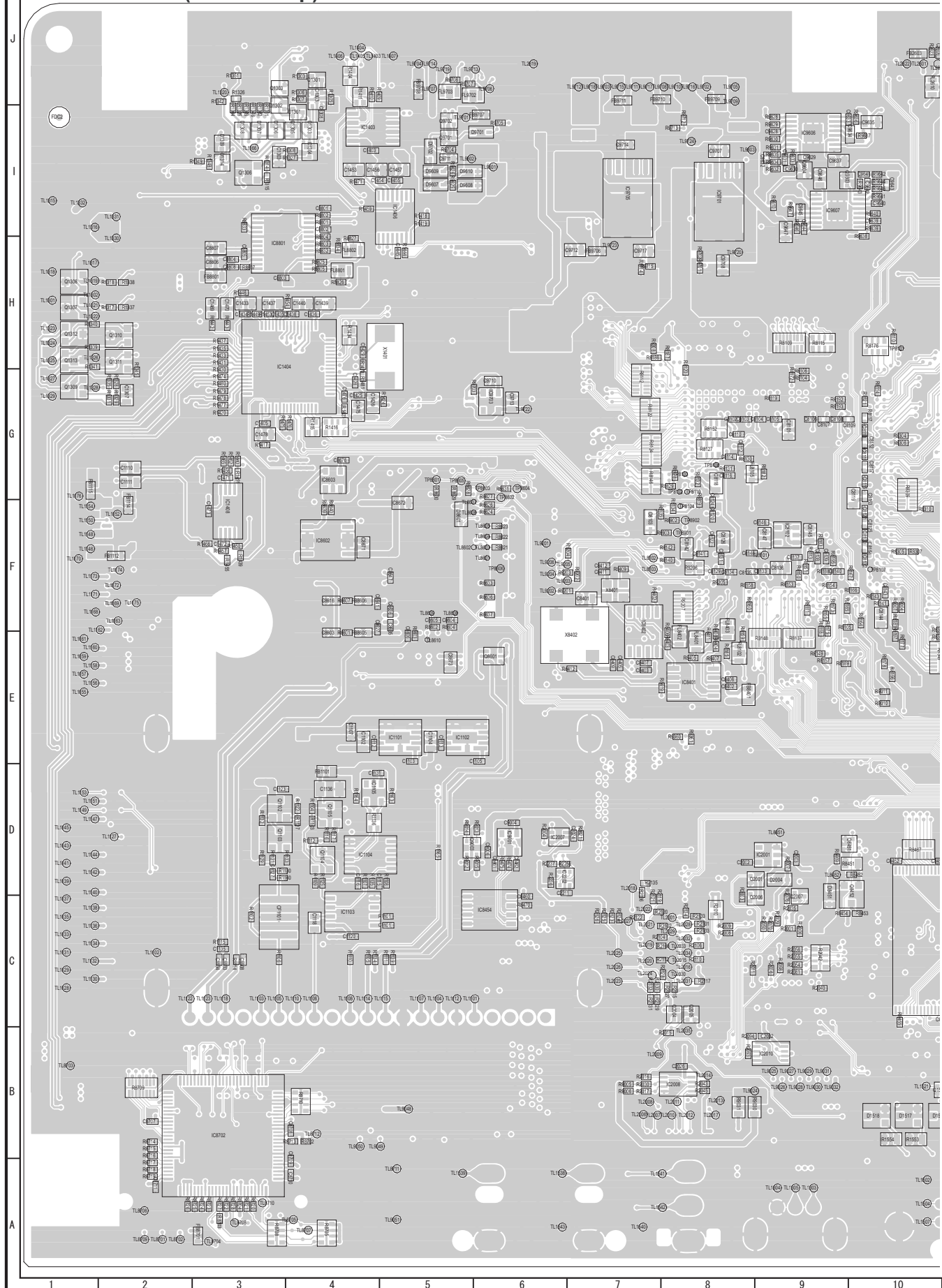








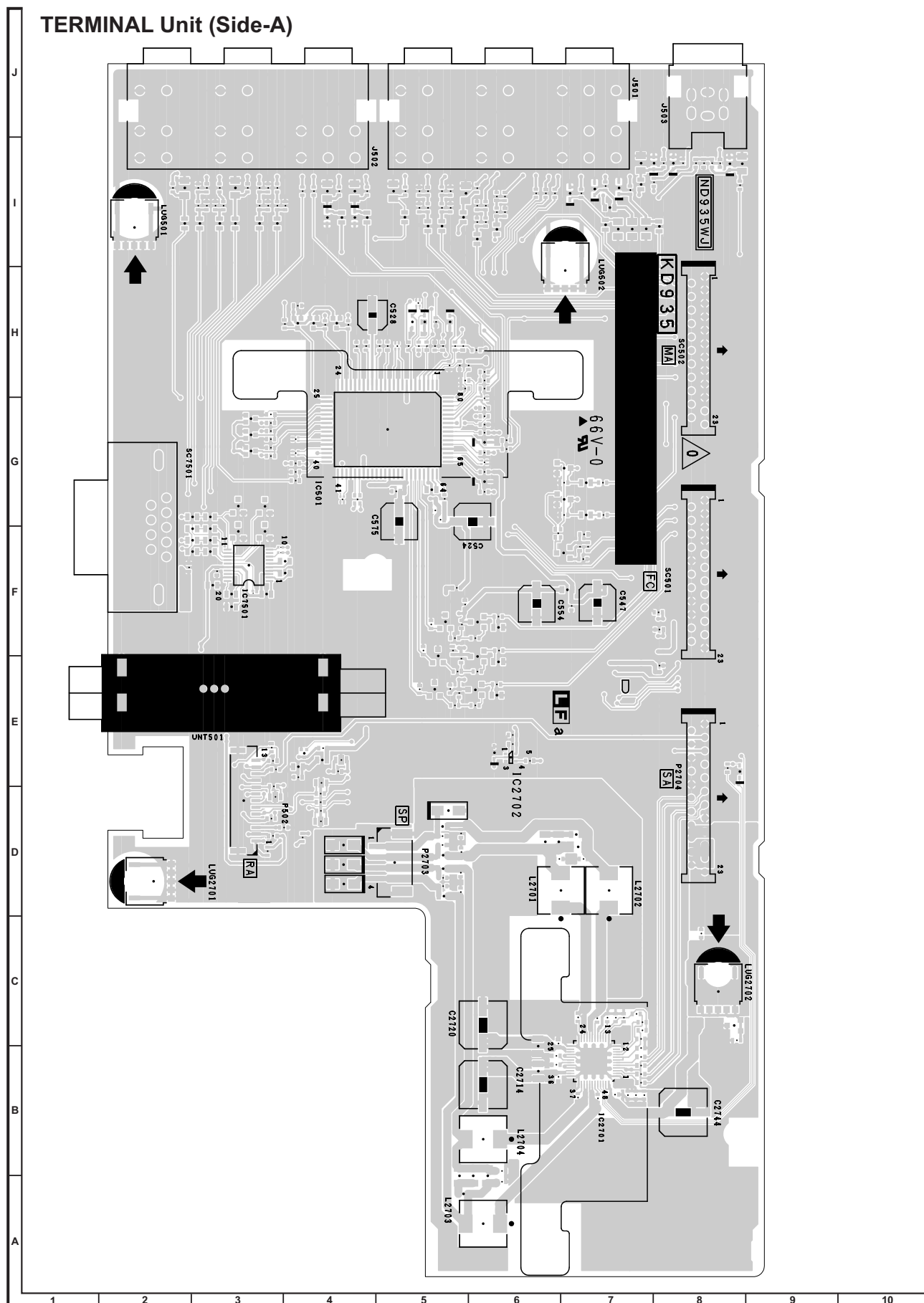
## MAIN Unit (Side-B Chip)



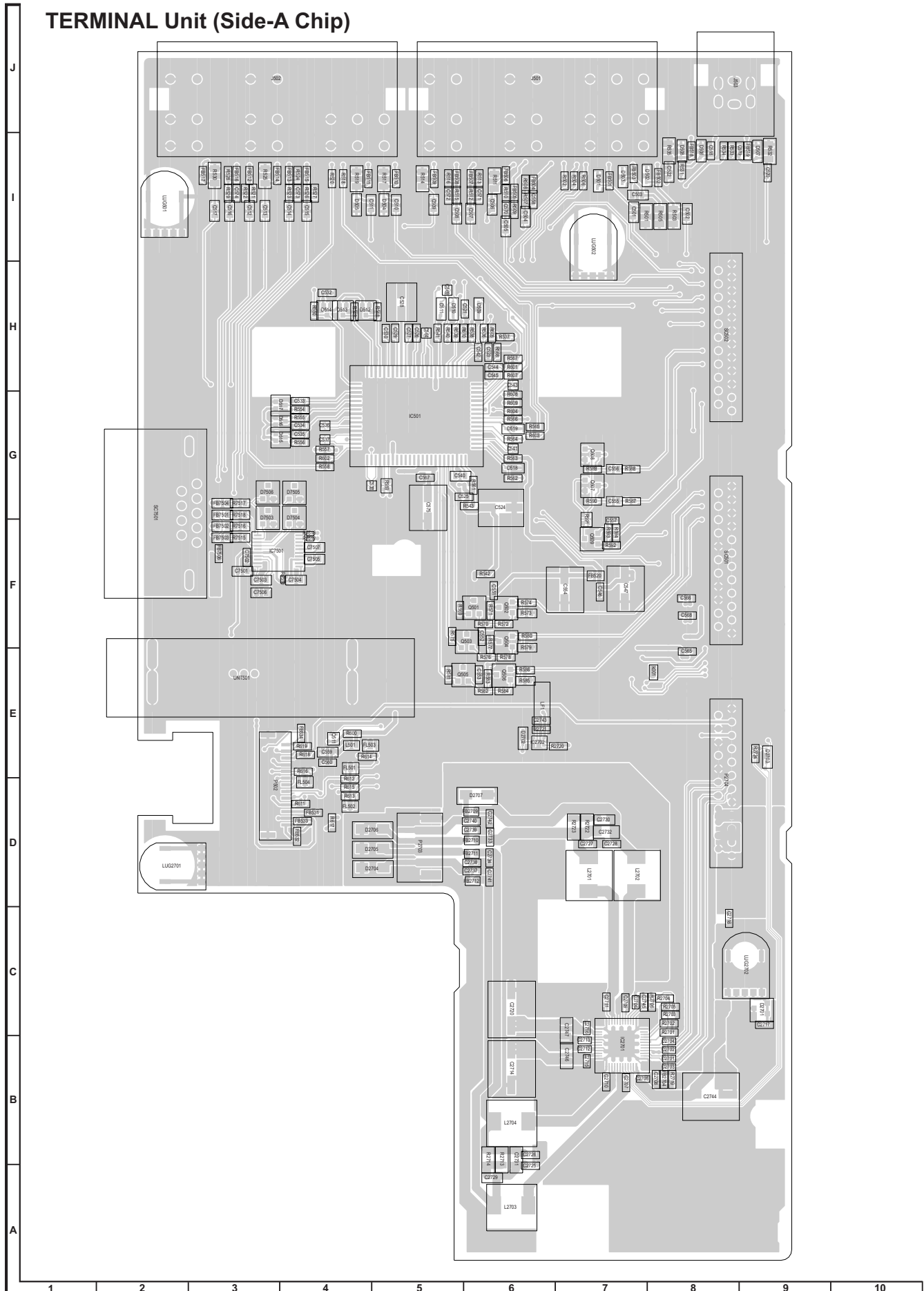


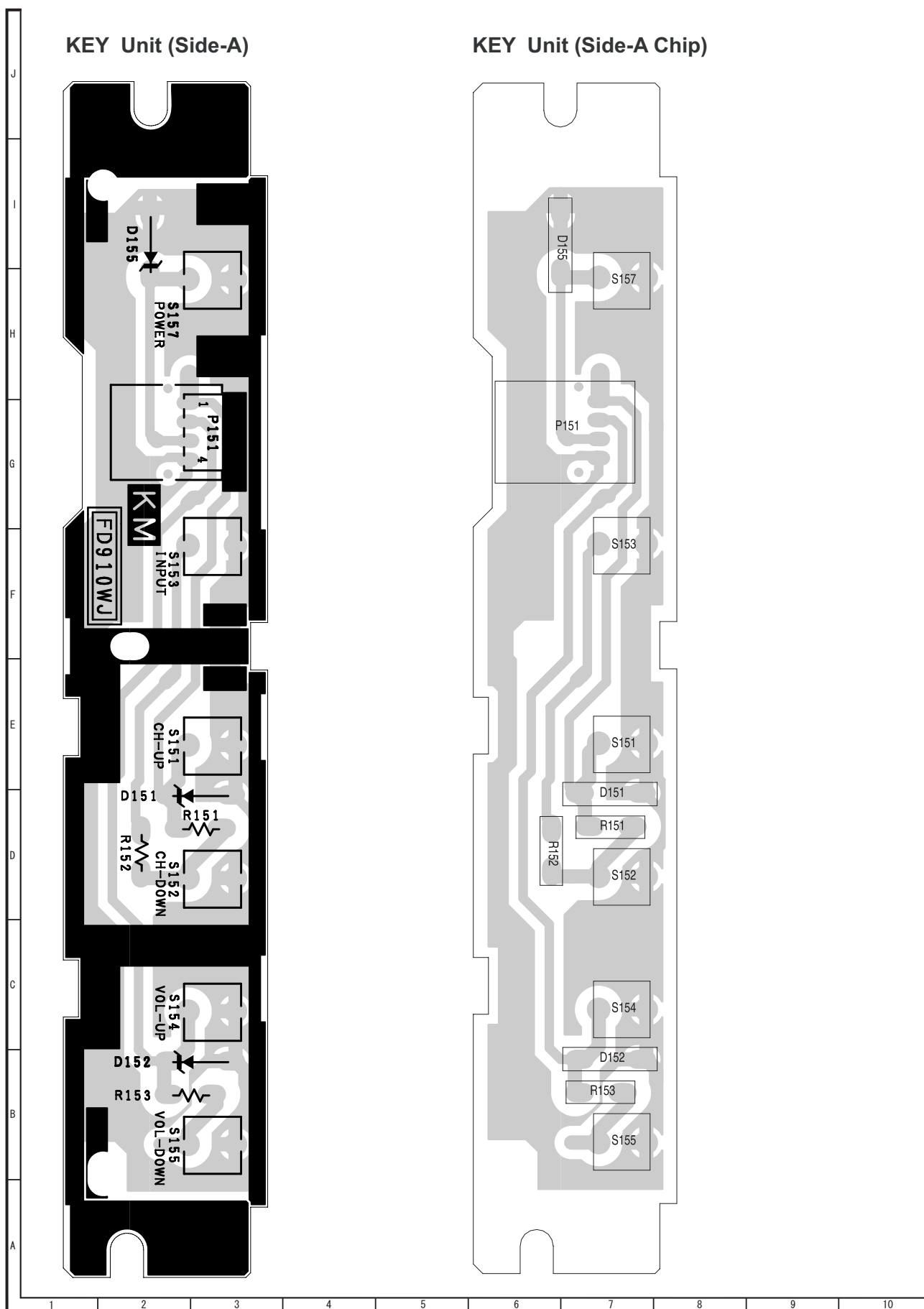


### TERMINAL Unit (Side-A)



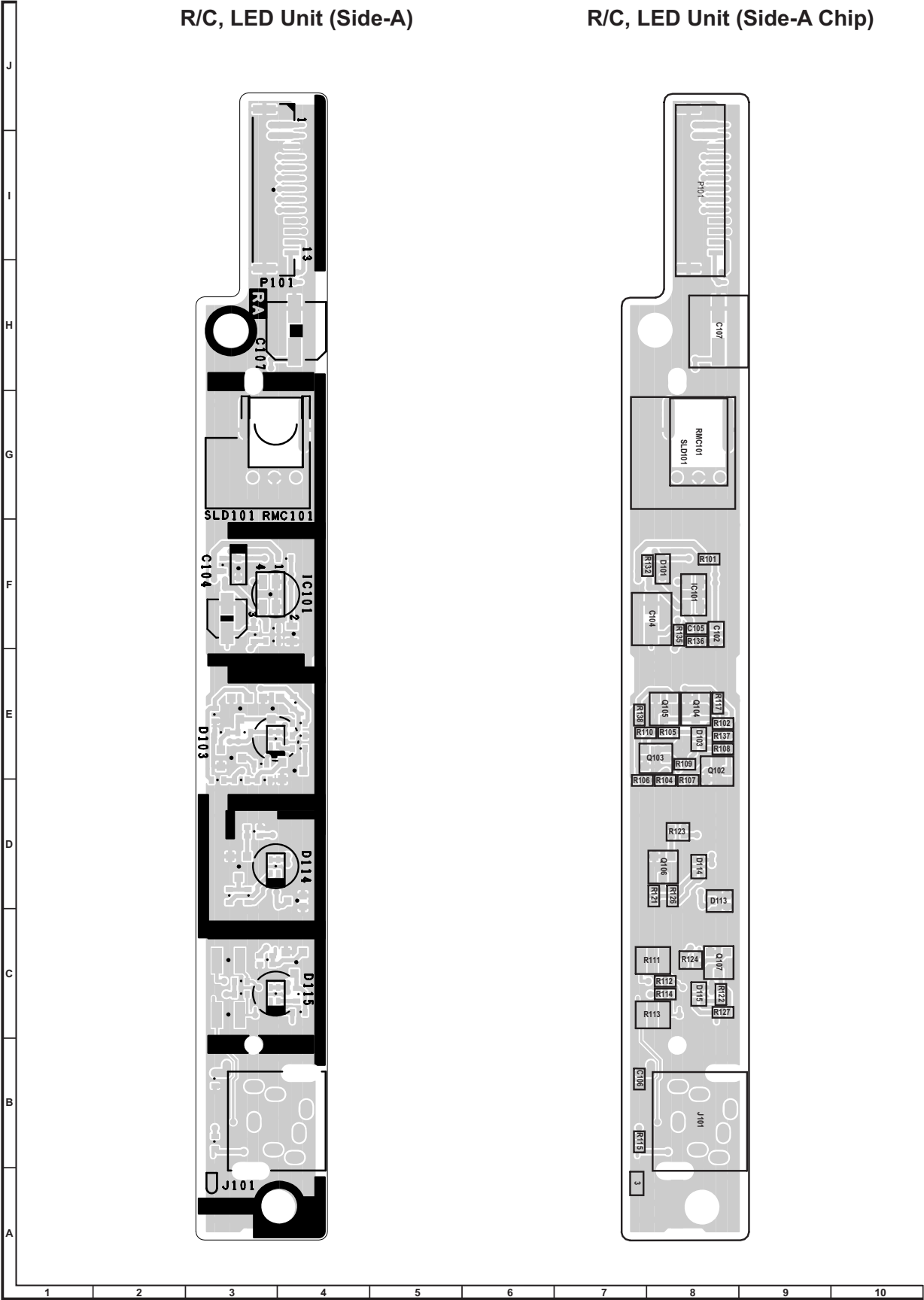
## TERMINAL Unit (Side-A Chip)

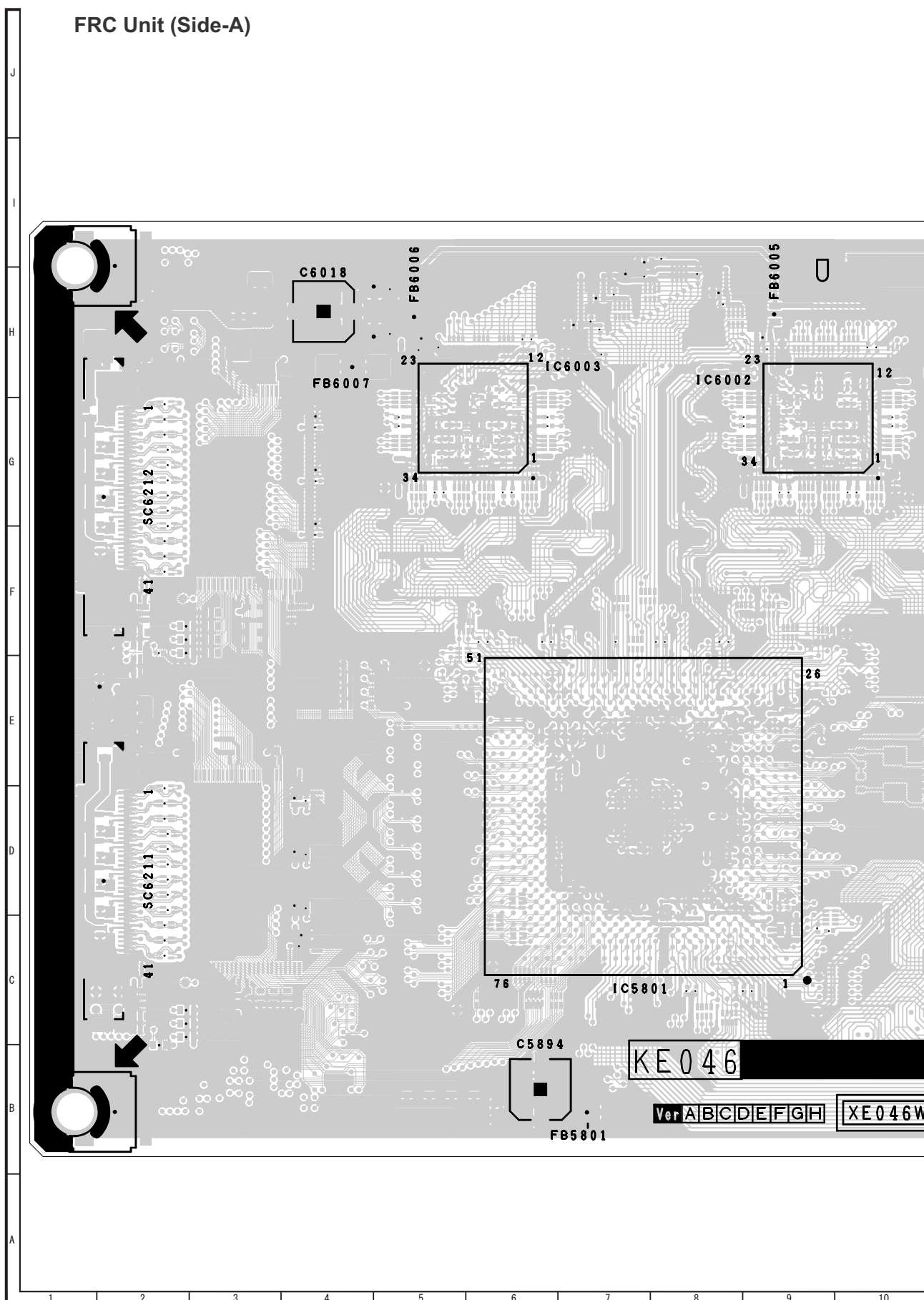


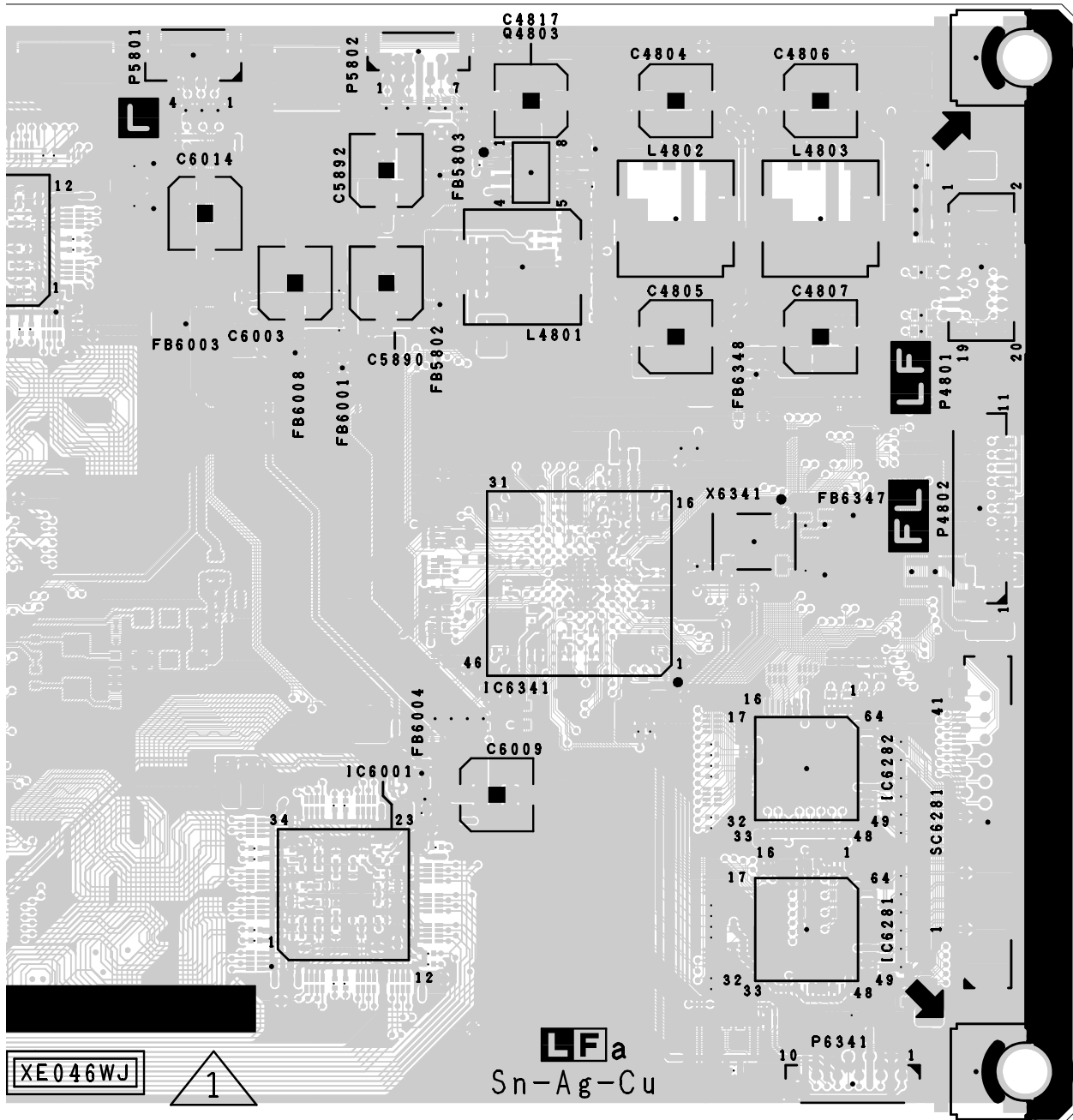
**[3] KEY UNIT PRINTED WIRING BOARD**



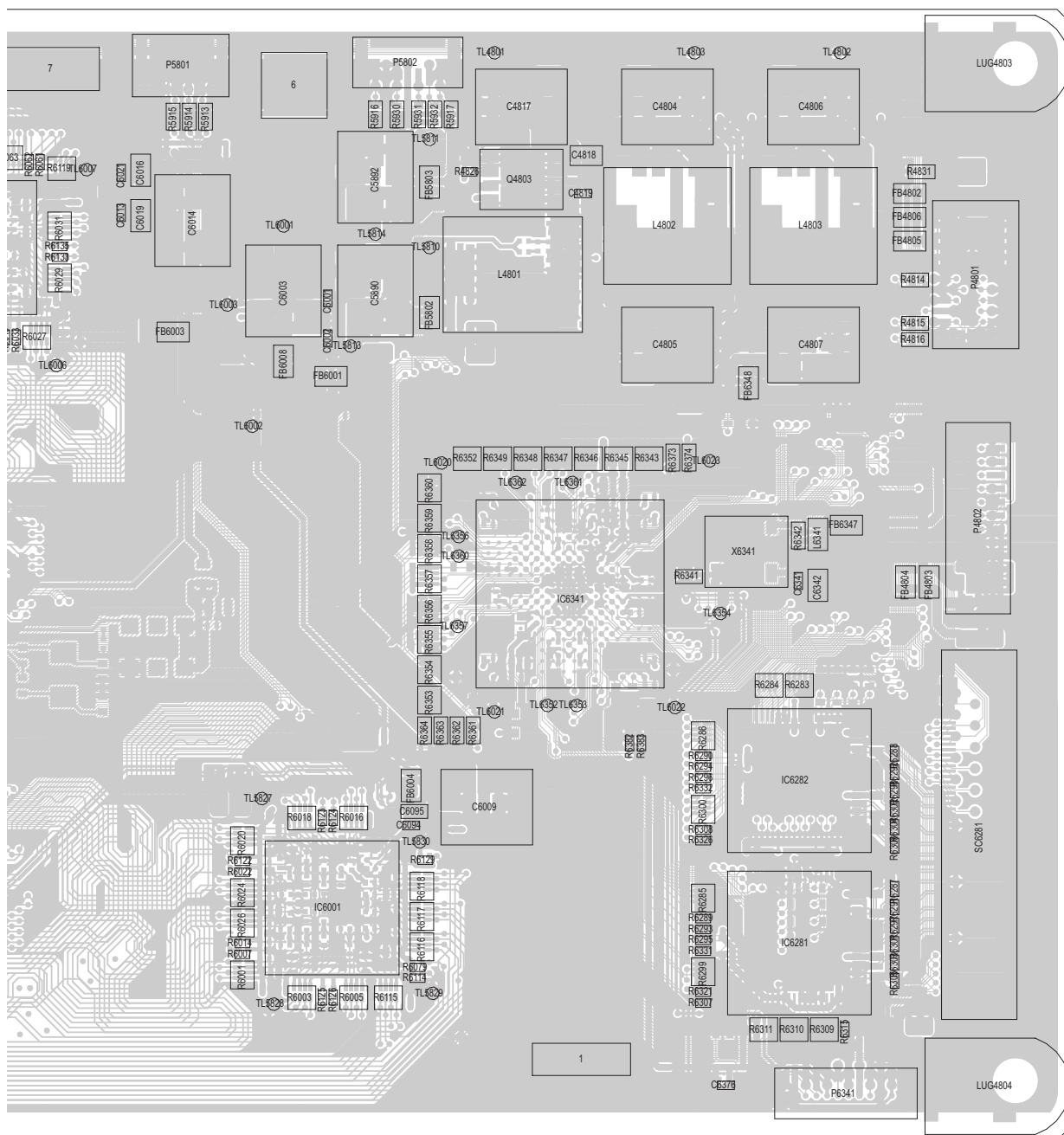
[4] R/C, LED UNIT PRINTED WIRING BOARD





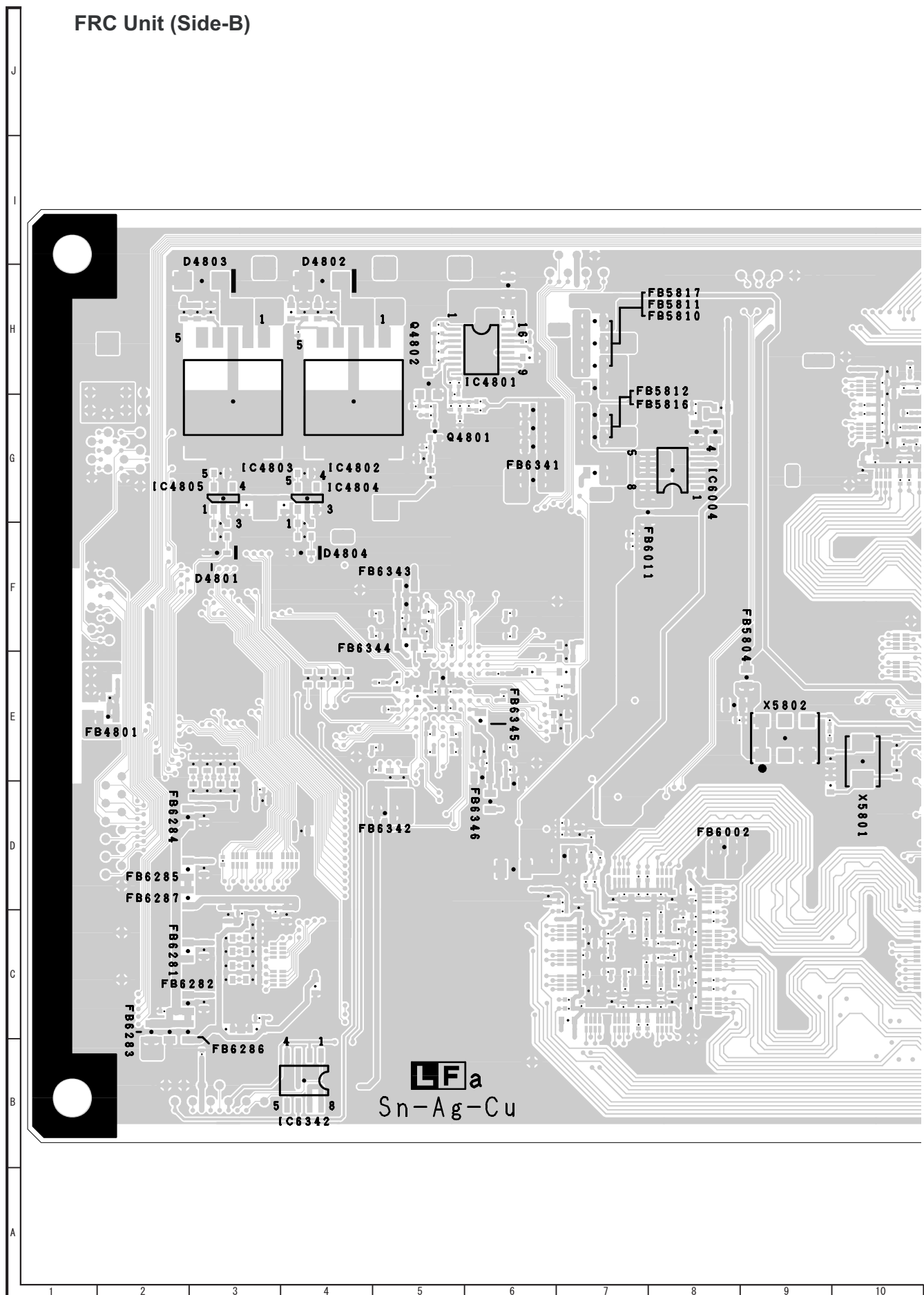


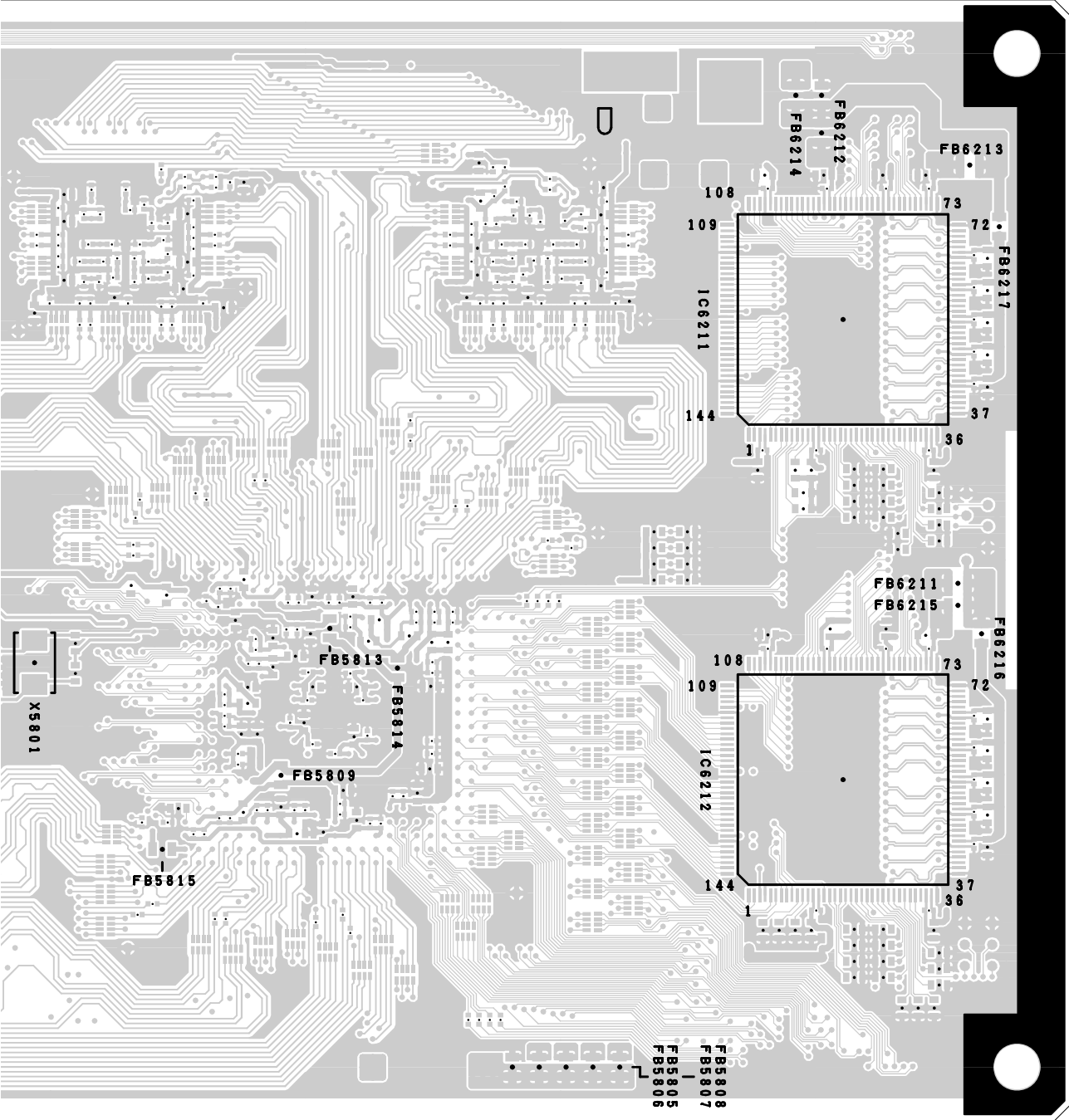




|    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|----|----|----|----|----|----|----|----|----|

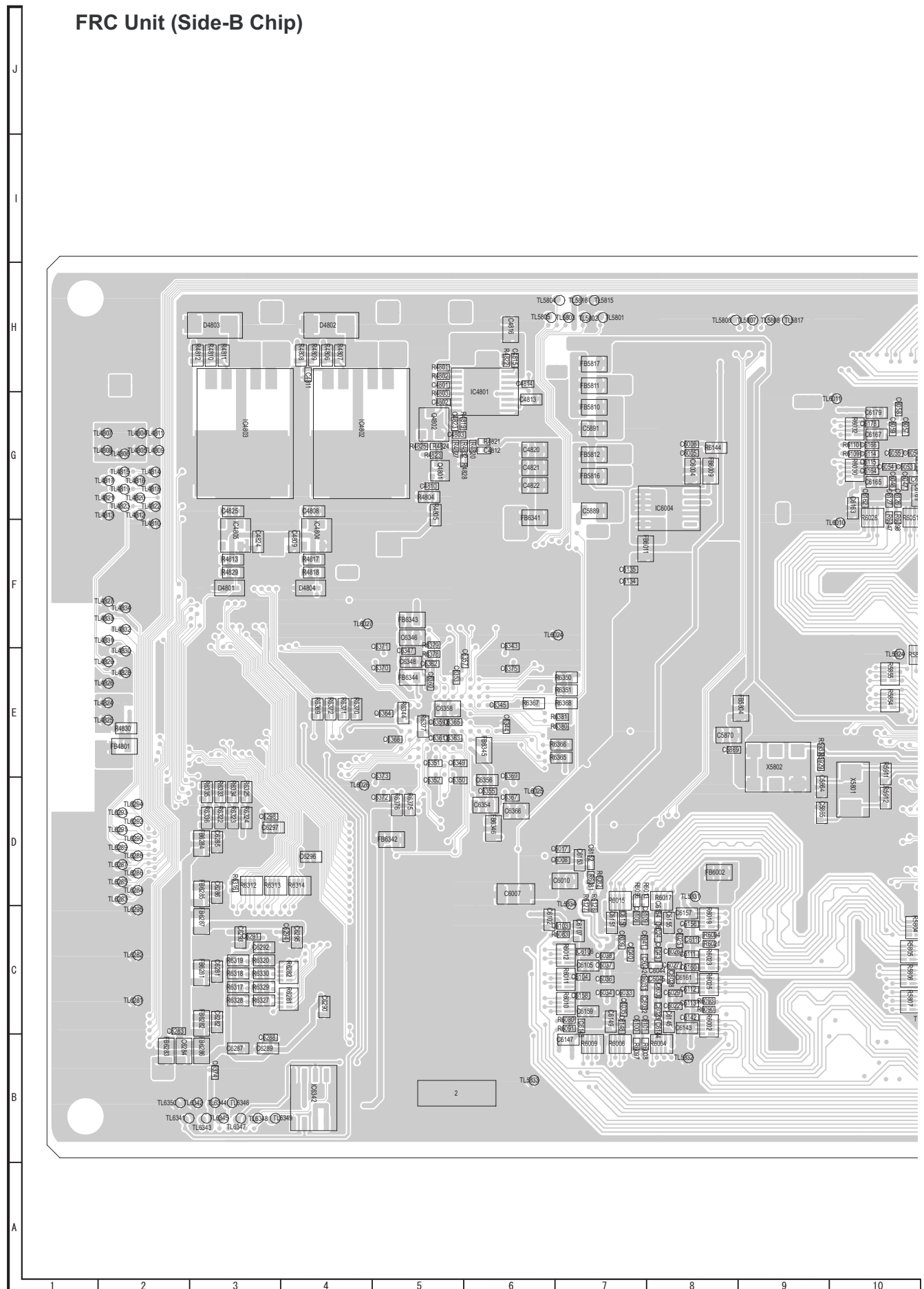
## FRC Unit (Side-B)



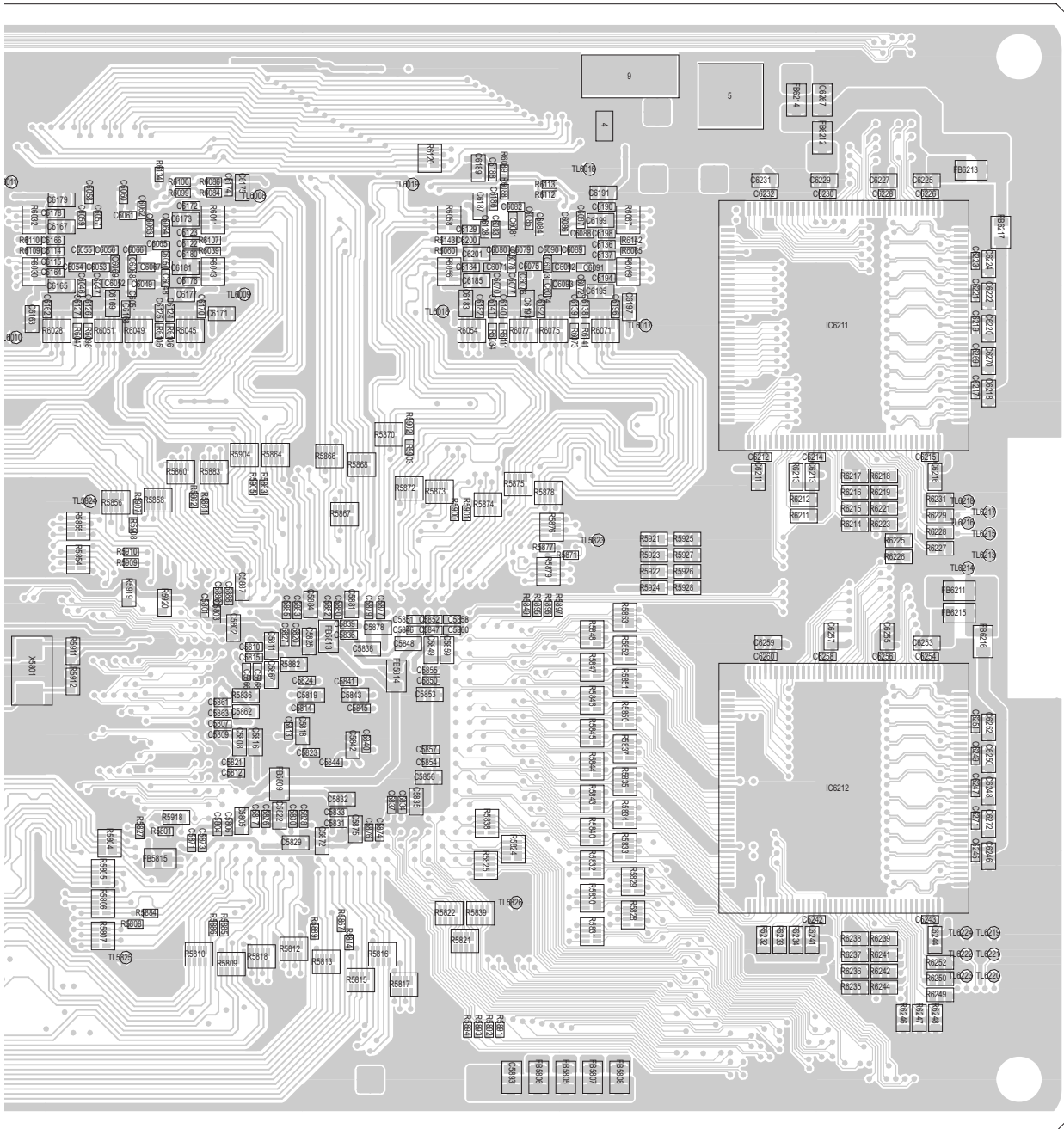




## FRC Unit (Side-B Chip)



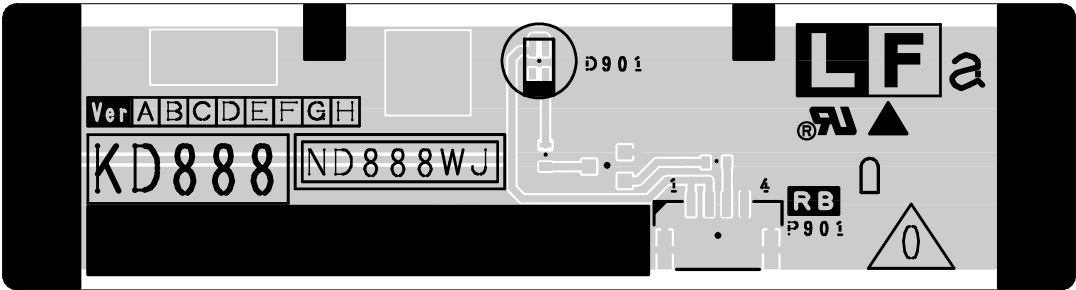




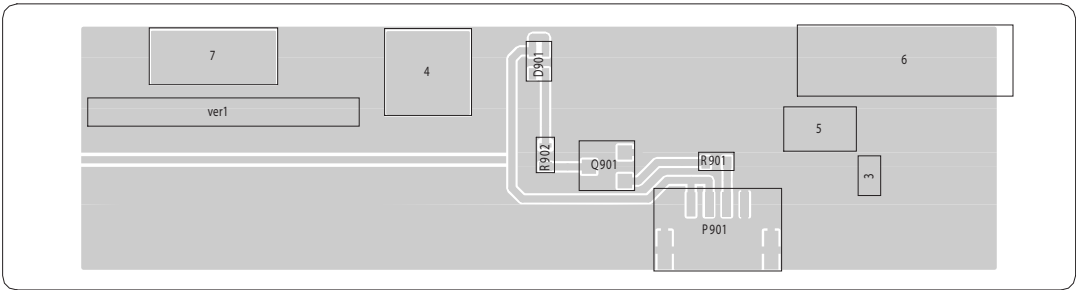
|    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|----|----|----|----|----|----|----|----|----|

ILLUMINATION Unit

ILLUMINATION Unit (Side-A)



ILLUMINATION Unit (Side-A Chip)



# CHAPTER 8. SCHEMATIC DIAGRAM

## [1] DESCRIPTION OF SCHEMATIC DIAGRAM

### 1. VOLTAGE MEASUREMENT CONDITION:

- 1) The voltages at test points are measured on exclusive AC adaptor and the stable supply voltage of AC 120V. Signals are fed by a color bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

### 2. INDICATION OF RESISTOR & CAPACITOR:

#### RESISTOR

- 1) The unit of resistance " $\Omega$ " is omitted.  
(K=k $\Omega$ =1000 $\Omega$ , M=M $\Omega$ ).
- 2) All resistors are  $\pm 5\%$ , unless otherwise noted.  
(K=  $\pm 10\%$ , F=  $\pm 1\%$ , D=  $\pm 0.5\%$ )
- 3) All resistors are 1/16W, unless otherwise noted.

#### CAPACITOR

- 1) All capacitors are  $\mu\text{F}$ , unless otherwise noted.  
(P=pF= $\mu\mu\text{F}$ ).
- 2) All capacitors are 50V, unless otherwise noted.

#### CAUTION:

This circuit diagram is original one, therefore there may be a slight difference from yours.

#### SAFETY NOTES:

- 1) DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
- 2) SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

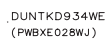
#### IMPORTANT SAFETY NOTICE:

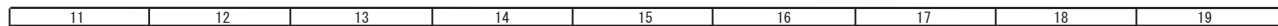
PARTS MARKED WITH " $\triangle$ " (  ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

#### AVIS DE SECURITE IMPORTANT:

LES PIECES MARQUEES " $\triangle$ " (  ) SONT IMPORTANTES POUR MAINTENIR LA SECURITE DE L'APPAREIL. NE REMPLACER CES PIECES QUE PAR DES PIECES DONT LE NUMERO EST SPECIFIE POUR MAINTENIR LA SECURITE ET PROTEGER LE BON FONCTIONNEMENT DE L'APPAREIL.

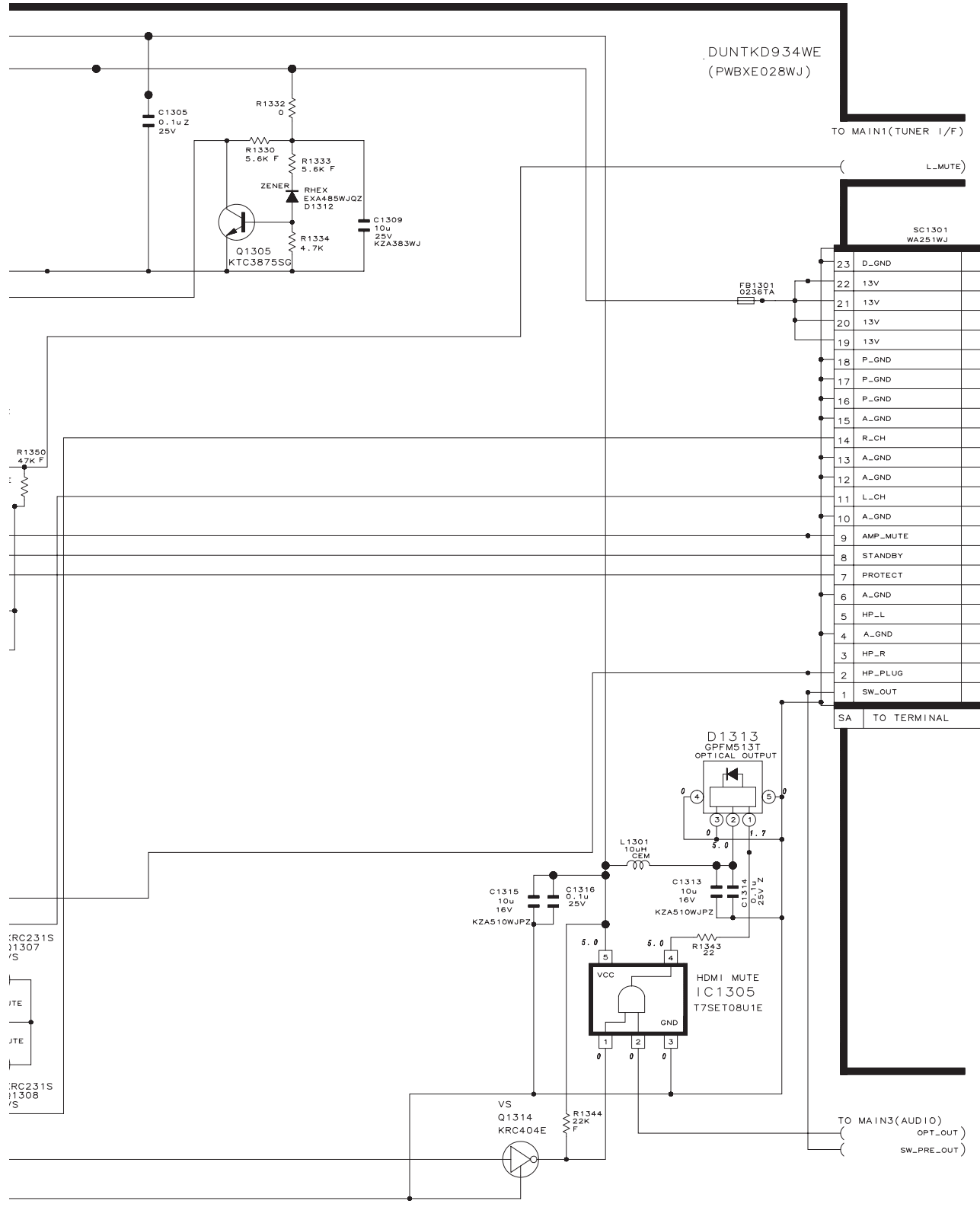
## MAIN1 (TUNER)





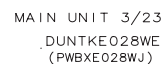


## MAIN2 (AUDIO IF)



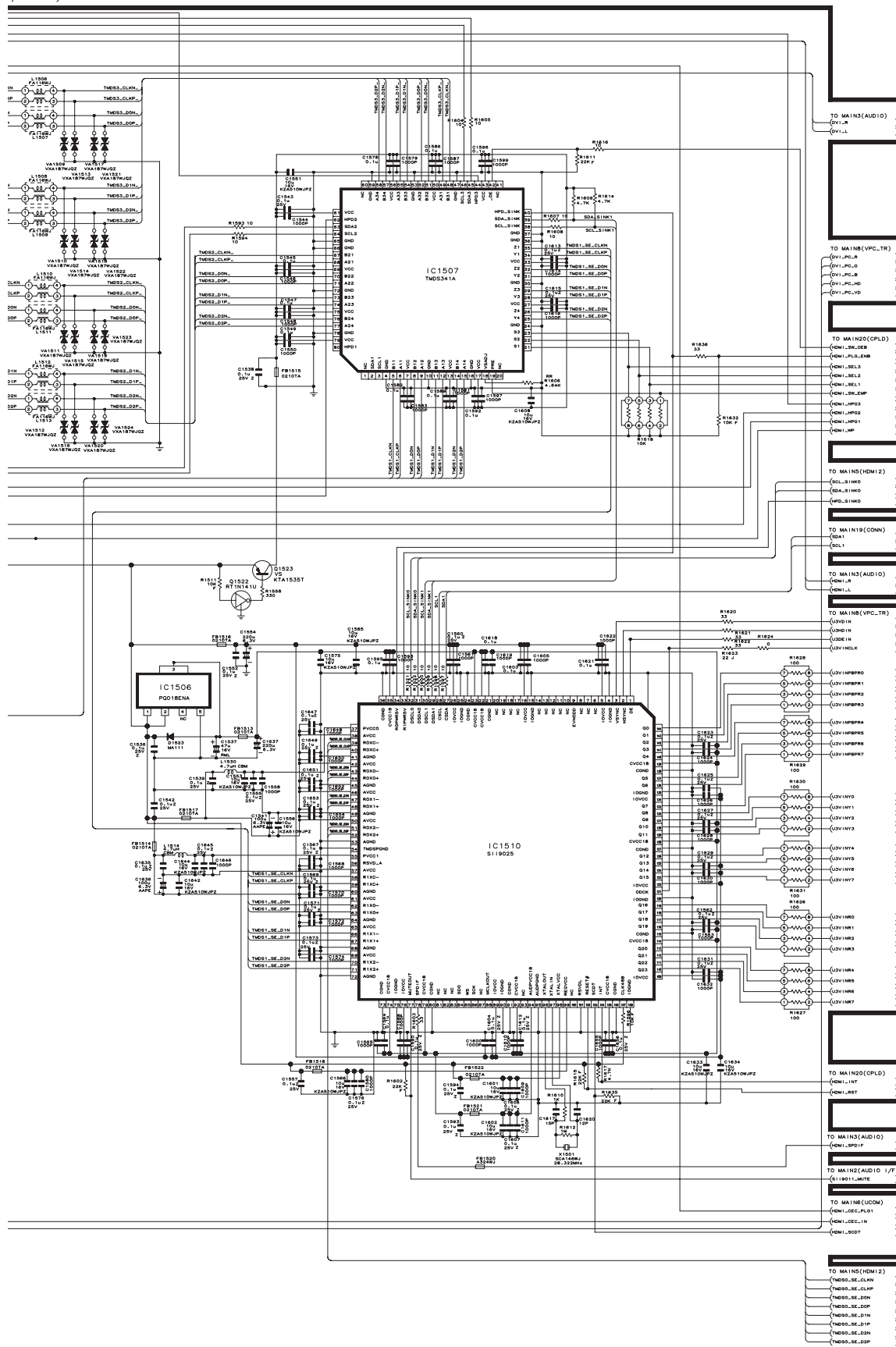








/DVI)

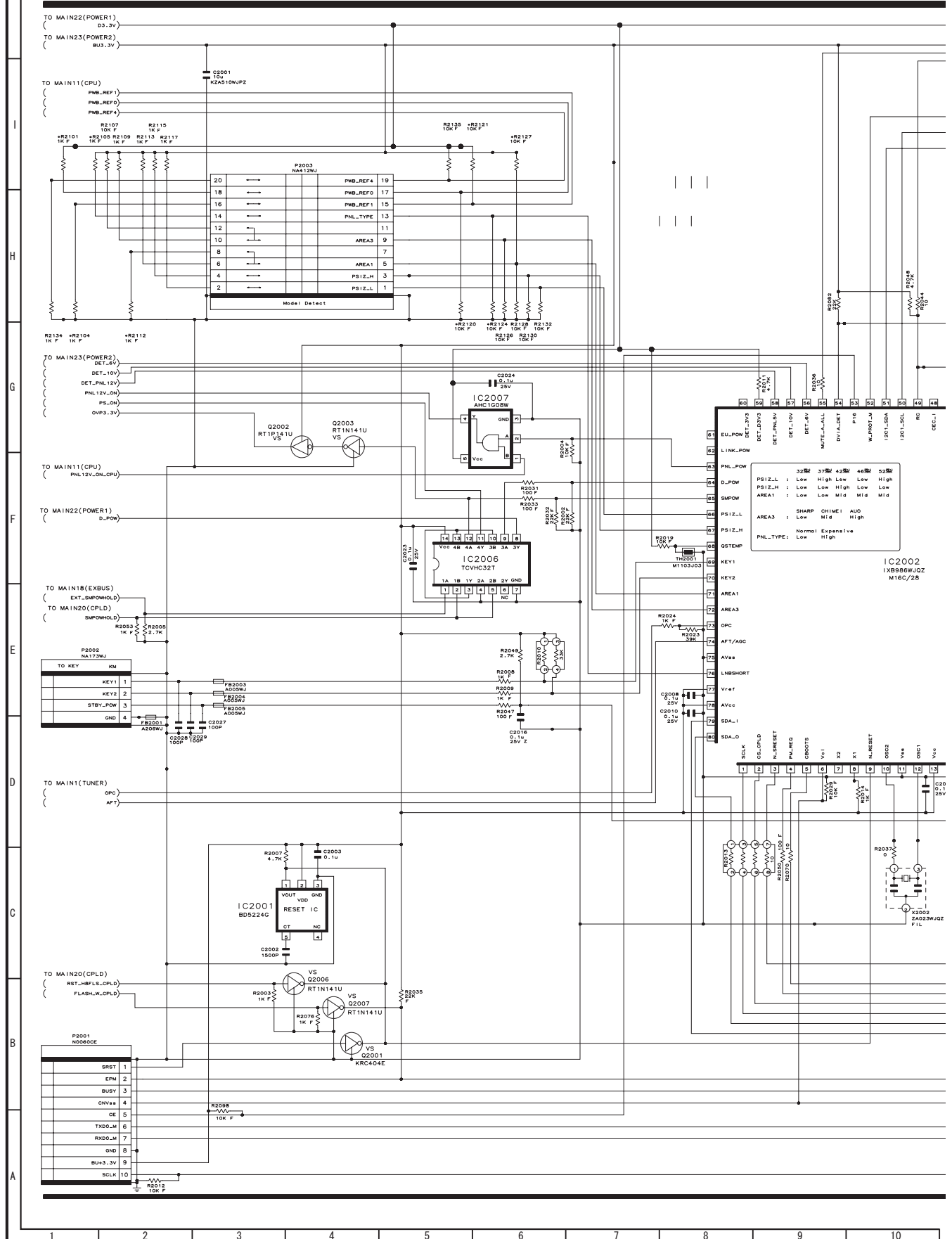






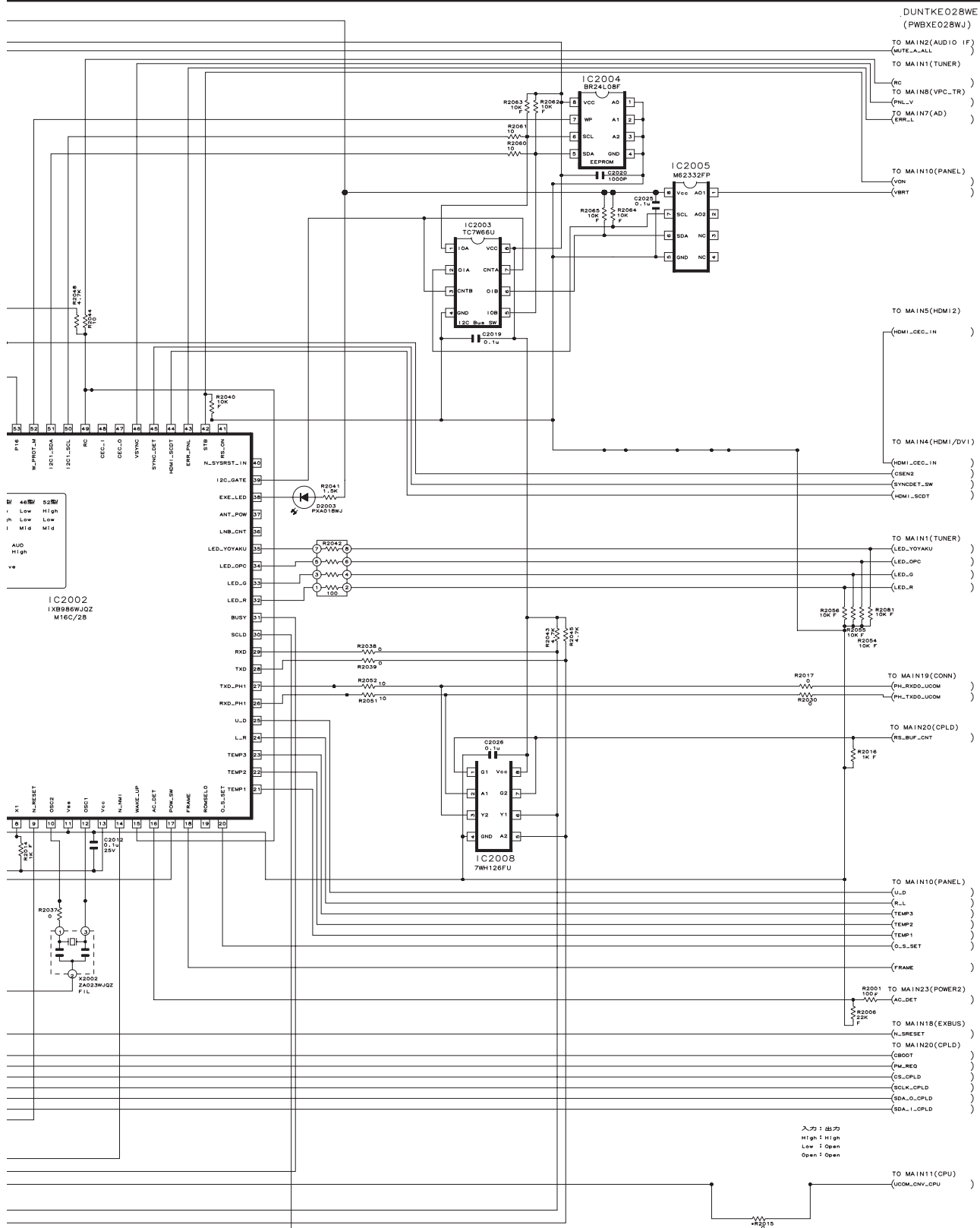
# **MAIN Unit-6**

MAIN6 (UCOM)

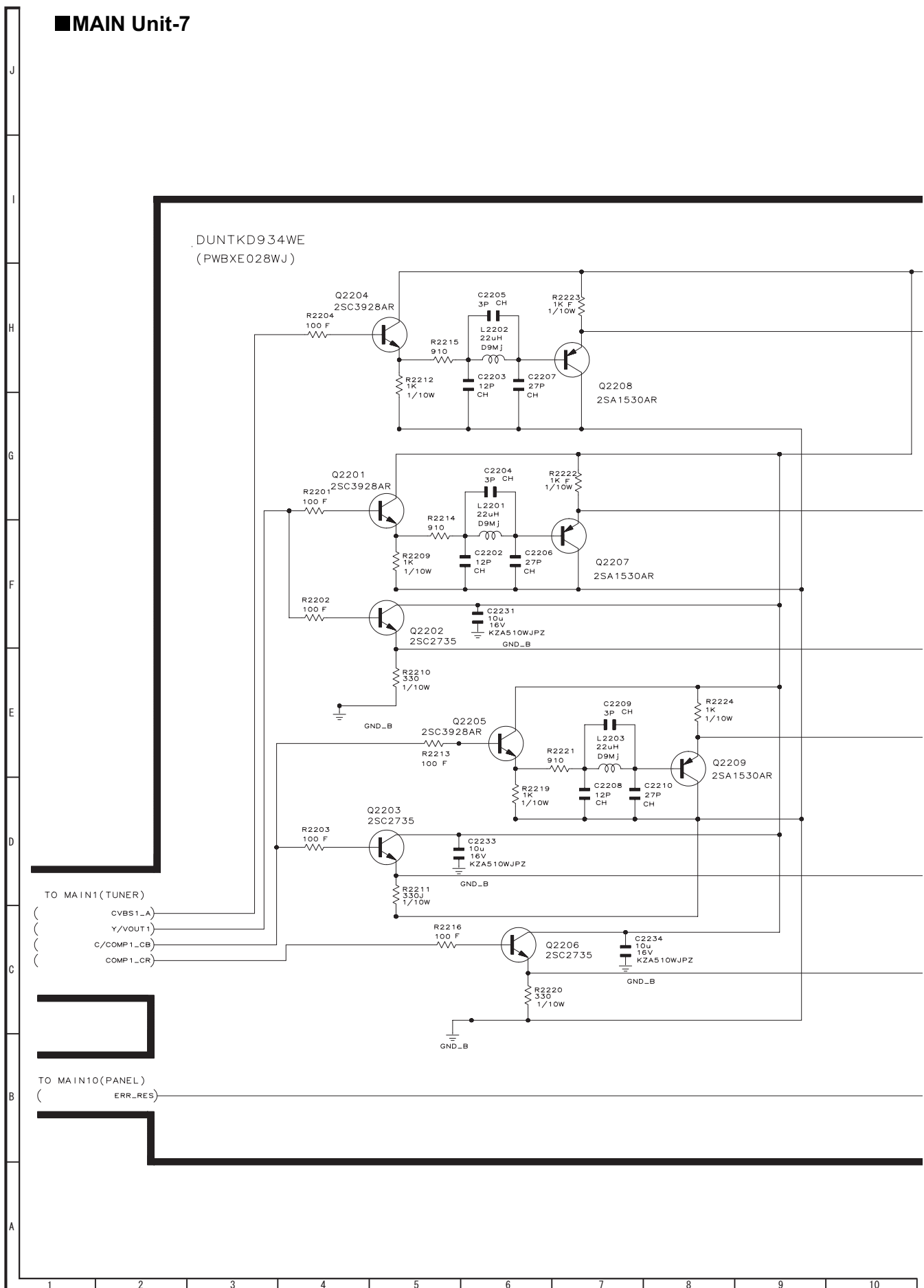


J6 (UCOM)

S1 (2006.11.01)

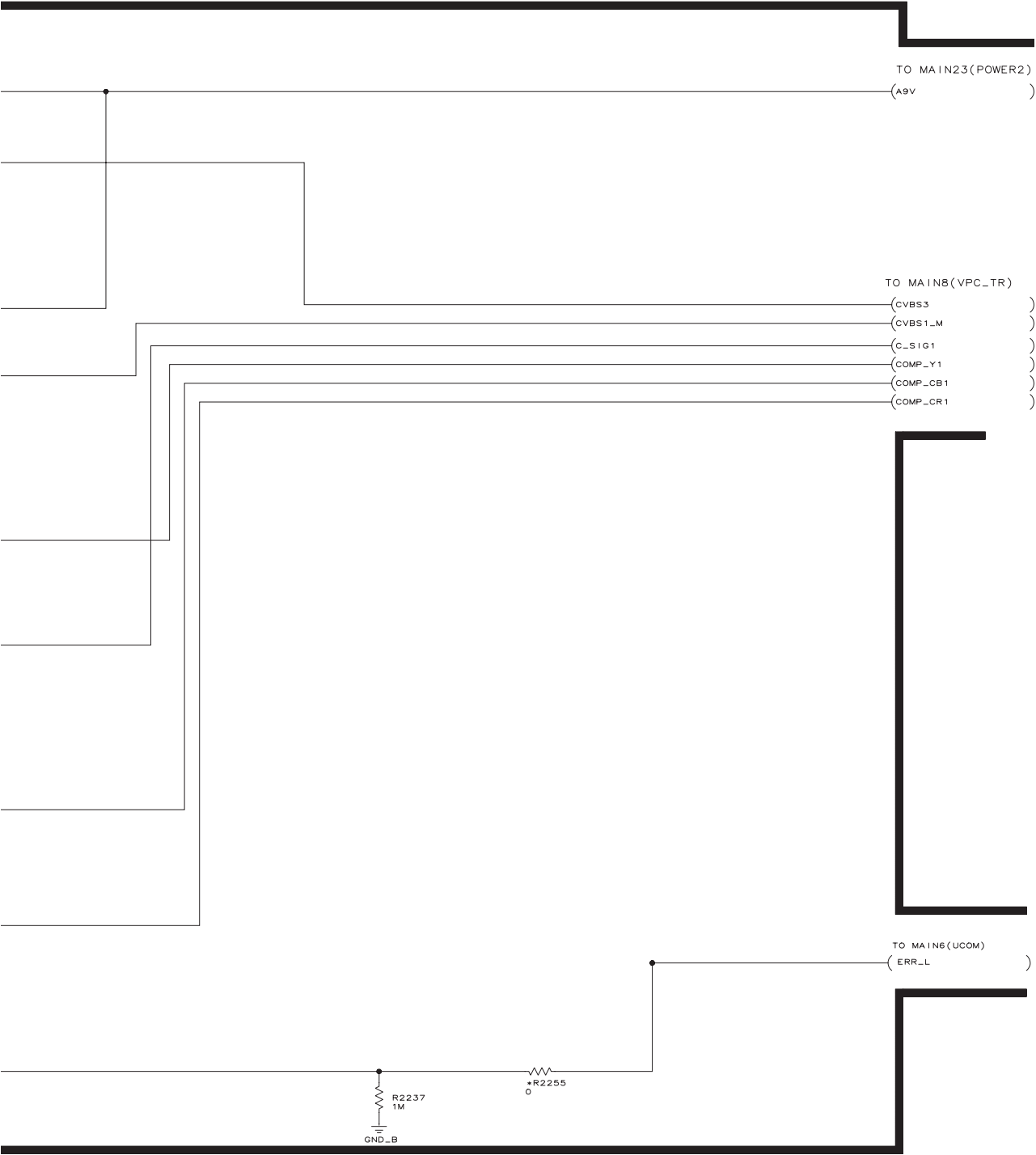


# MAIN Unit-7



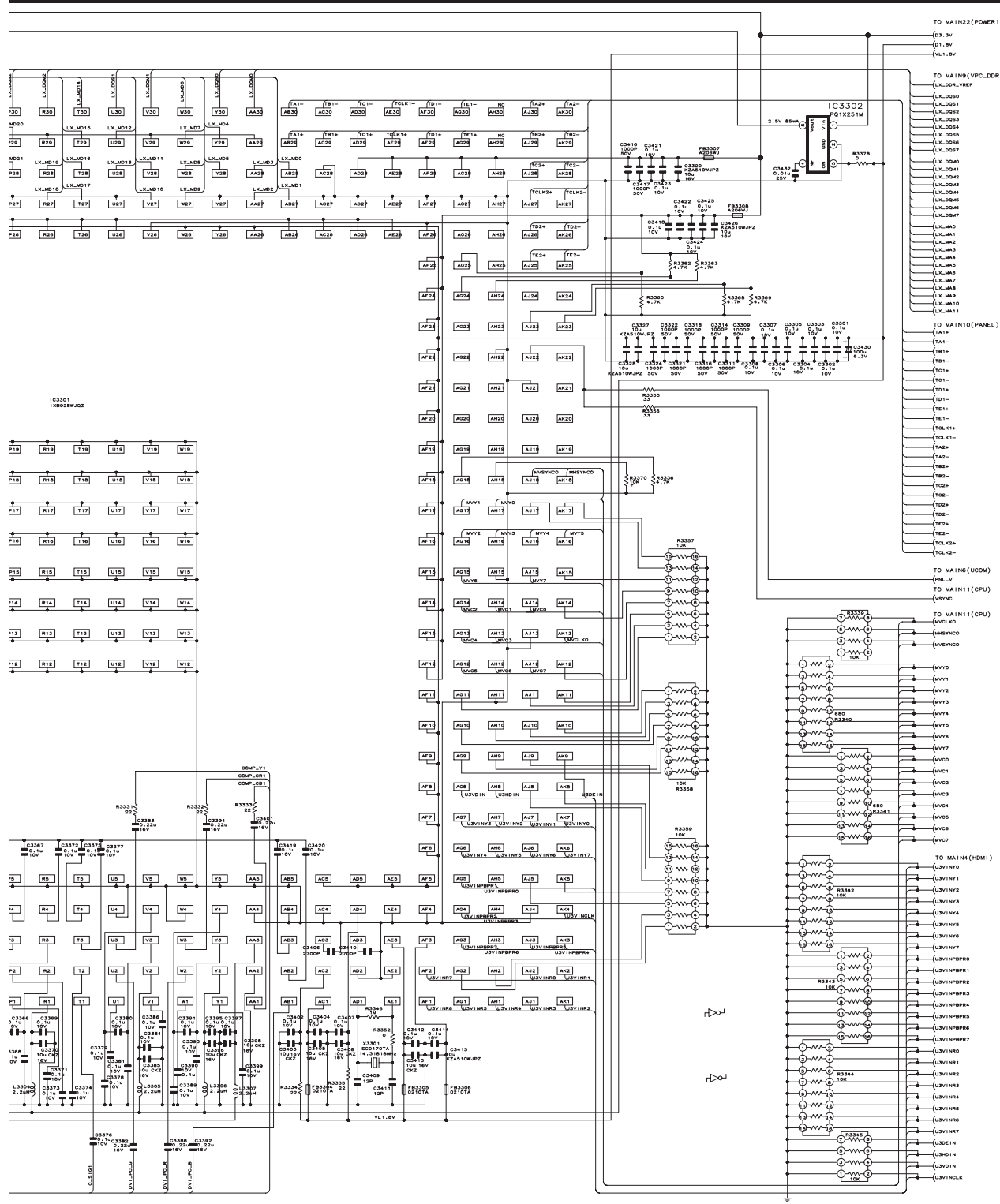


MAIN7 (AD)



|    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|----|----|----|----|----|----|----|----|----|

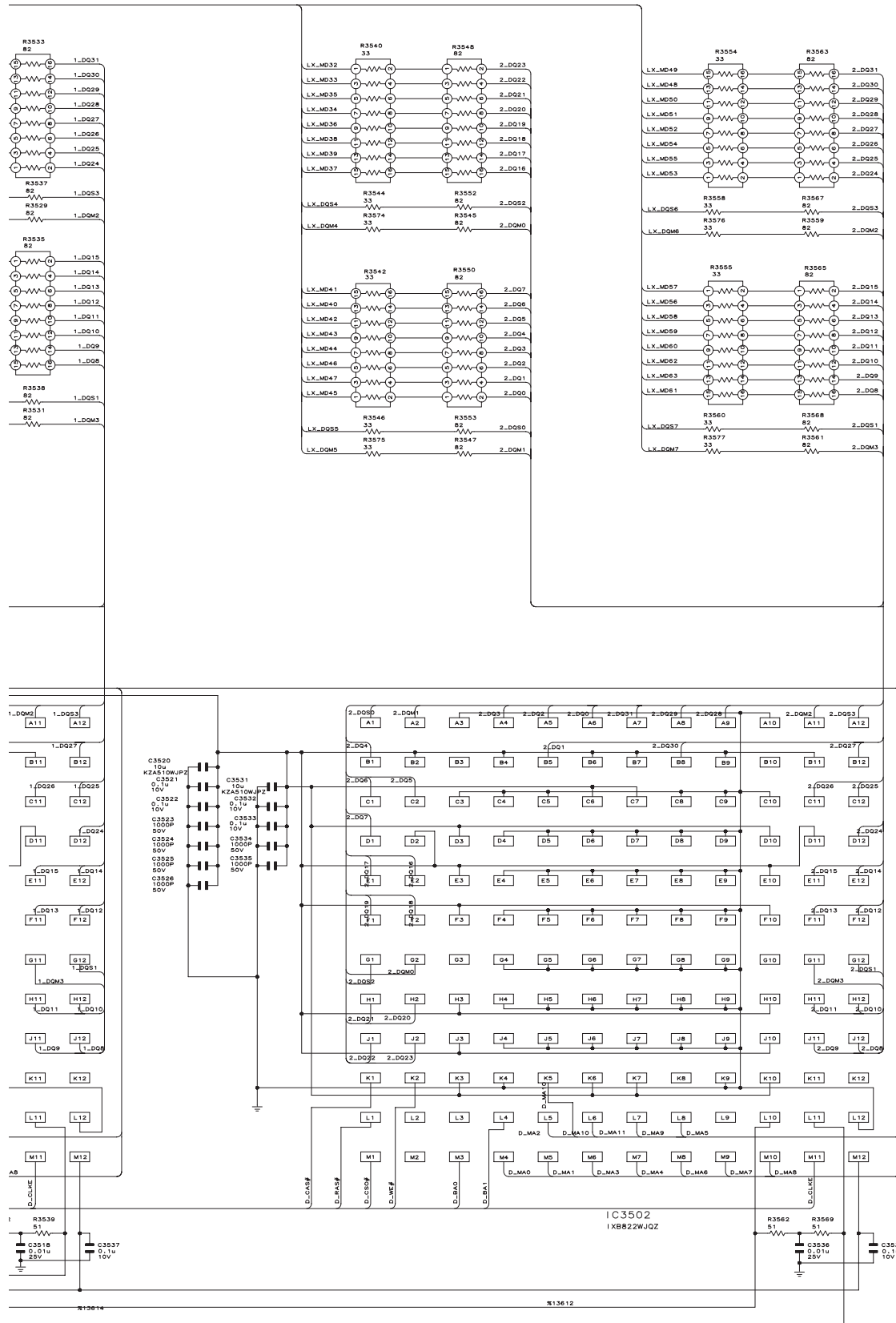




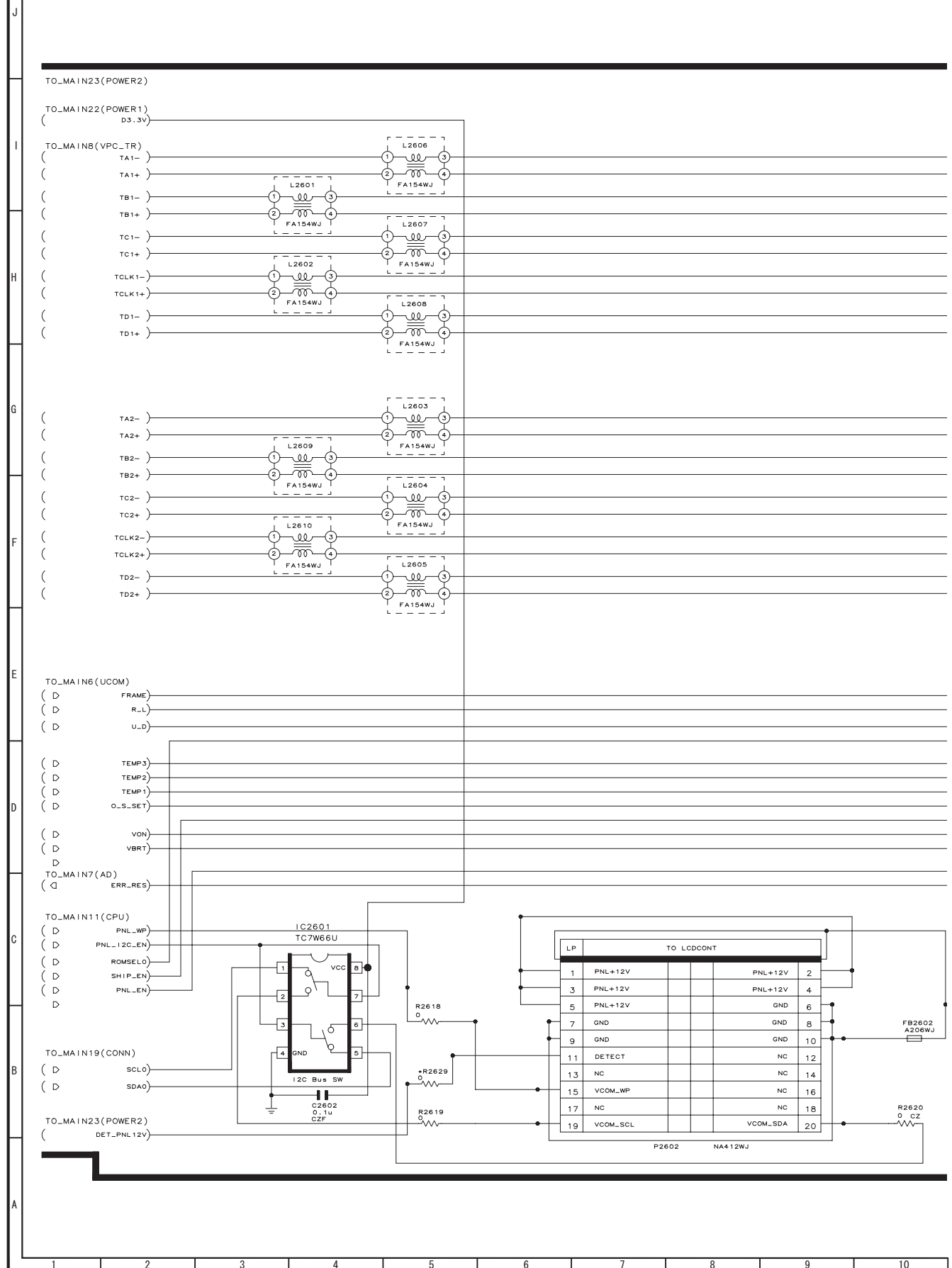


PC\_DDR)

MAIN UNIT 9/23  
DUNTKD934WE  
(PWBXE028WJ)

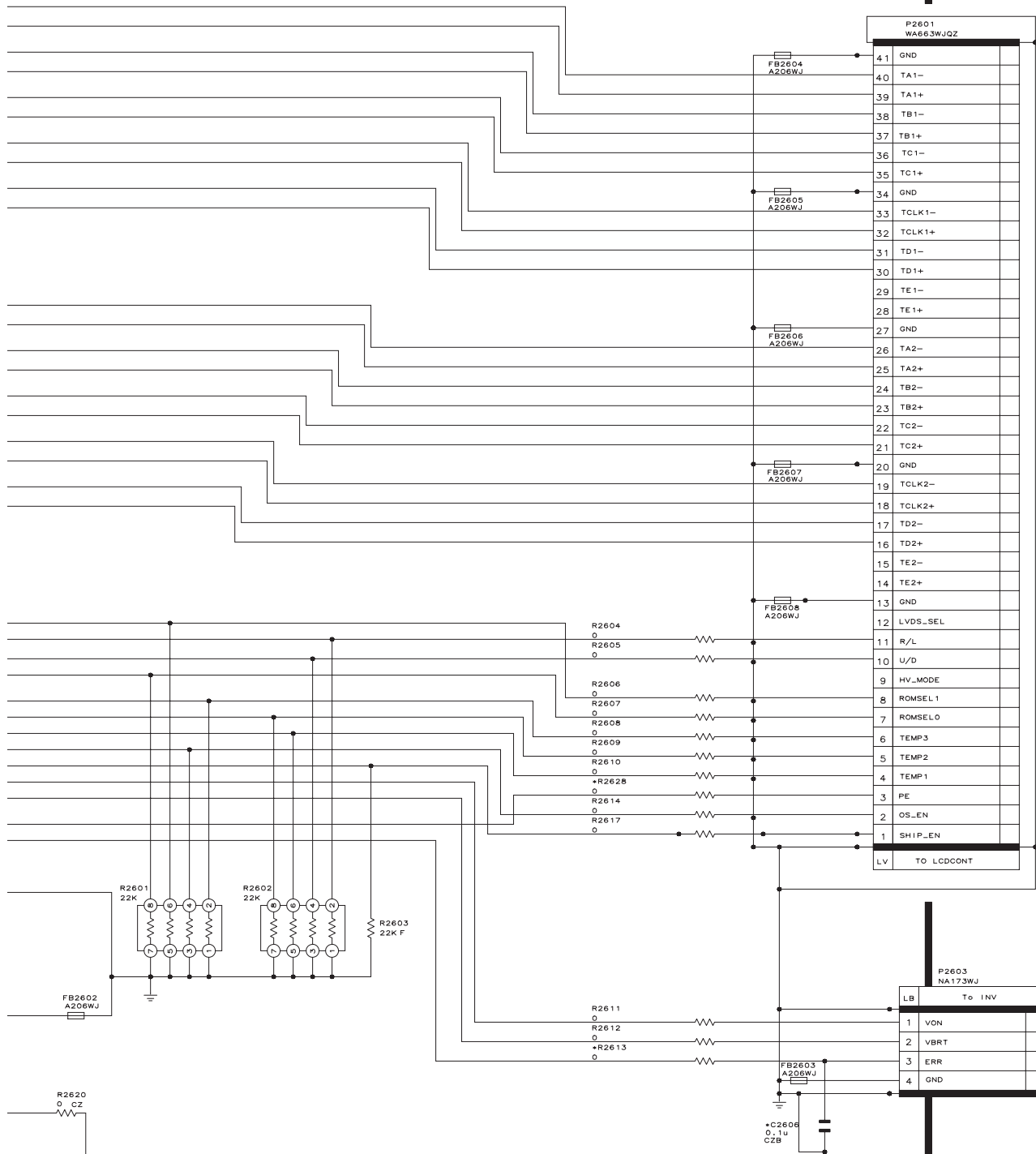


# **MAIN Unit-10**



## MAIN10 (PANEL)

MAIN UNIT 10/23  
DUNTKD934WE  
(PWBXE028WJ)

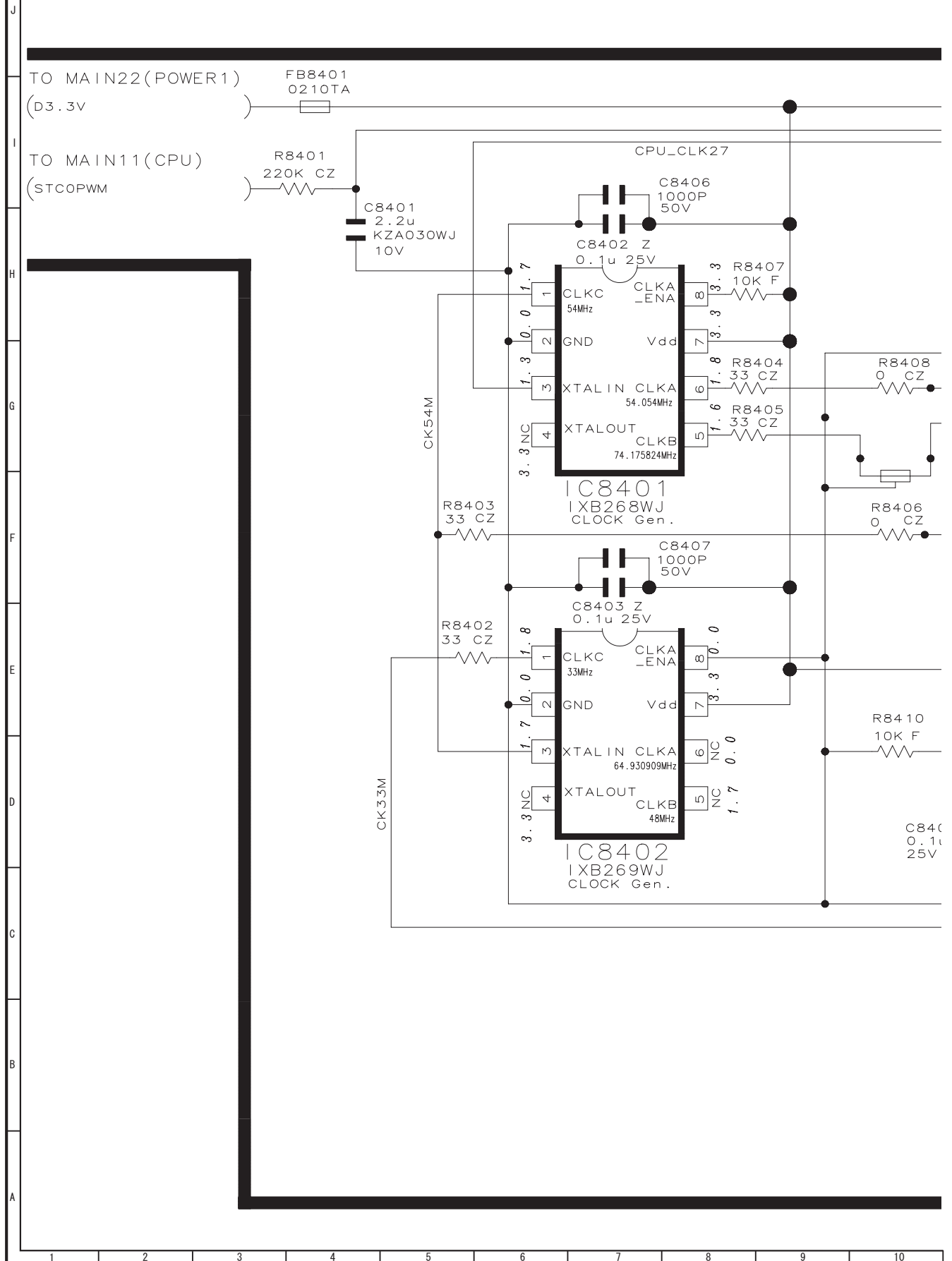




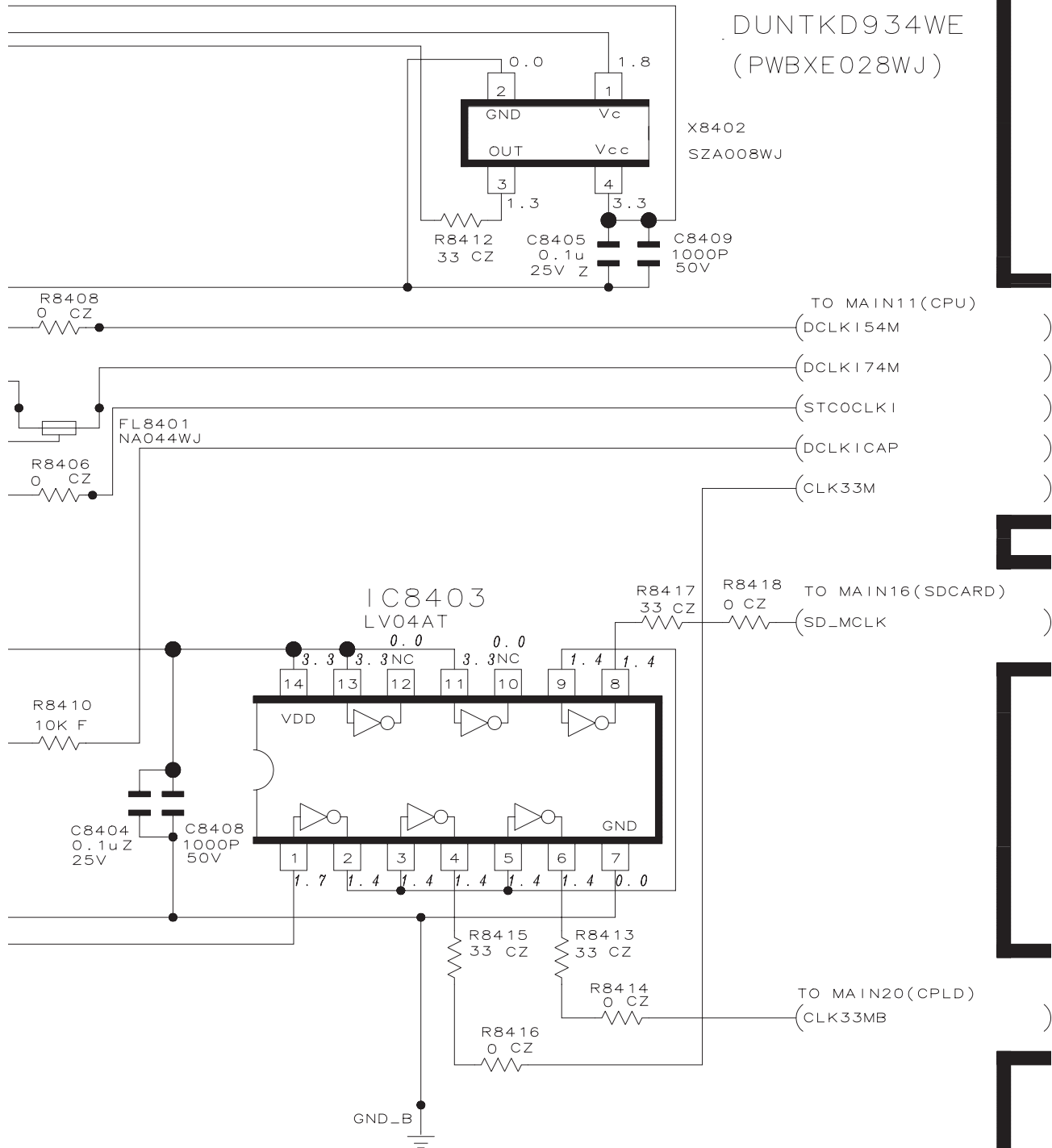




# ■ MAIN Unit-12

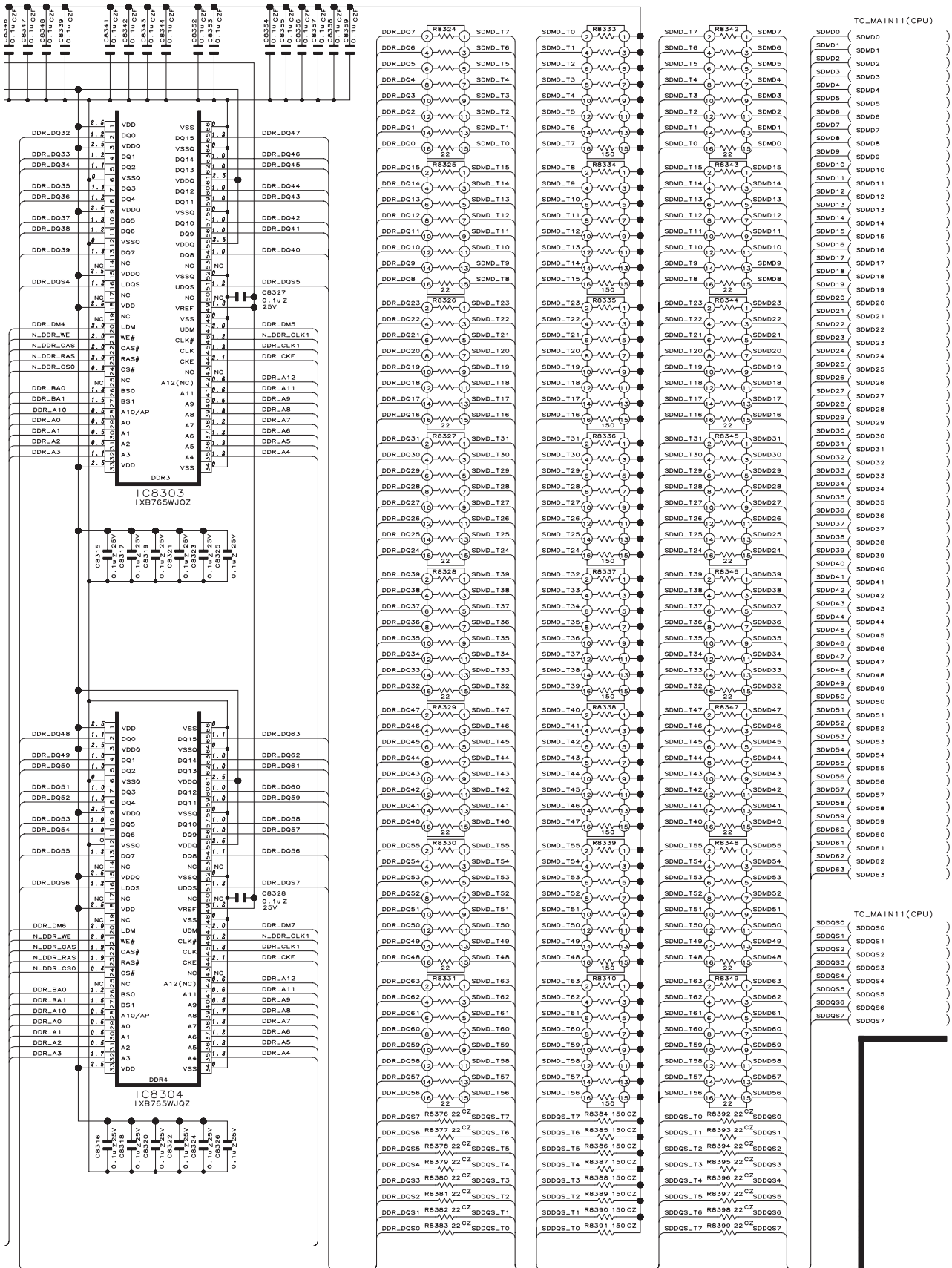


## MAIN12 (CLOCK)





# MAIN13(DDR)



# **MAIN Unit-14**

Checker land  
for +12.0V Input  
in factory

TO MAIN22(POWER1)  
( D3.3V )

TO MAIN11(CPU)  
( FL\_VPPO )

TO MAIN18(EXBUS)

ED0  
ED1  
ED2  
ED3  
ED4  
ED5  
ED6  
ED7  
ED8  
ED9  
ED10  
ED11  
ED12  
ED13  
ED14  
ED15

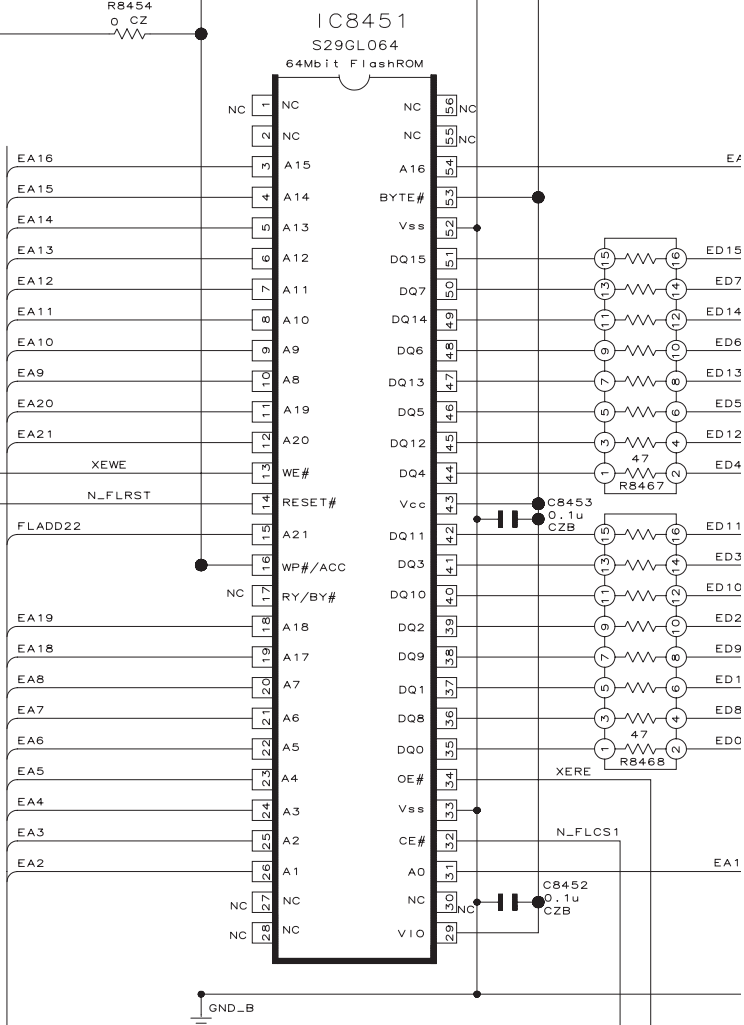
EA1  
EA2  
EA3  
EA4  
EA5  
EA6  
EA7  
EA8  
EA9  
EA10  
EA11  
EA12  
EA13  
EA14  
EA15  
EA16  
EA17  
EA18  
EA19  
EA20  
EA21

XEWE  
XERE

FLADD22  
FLADD23

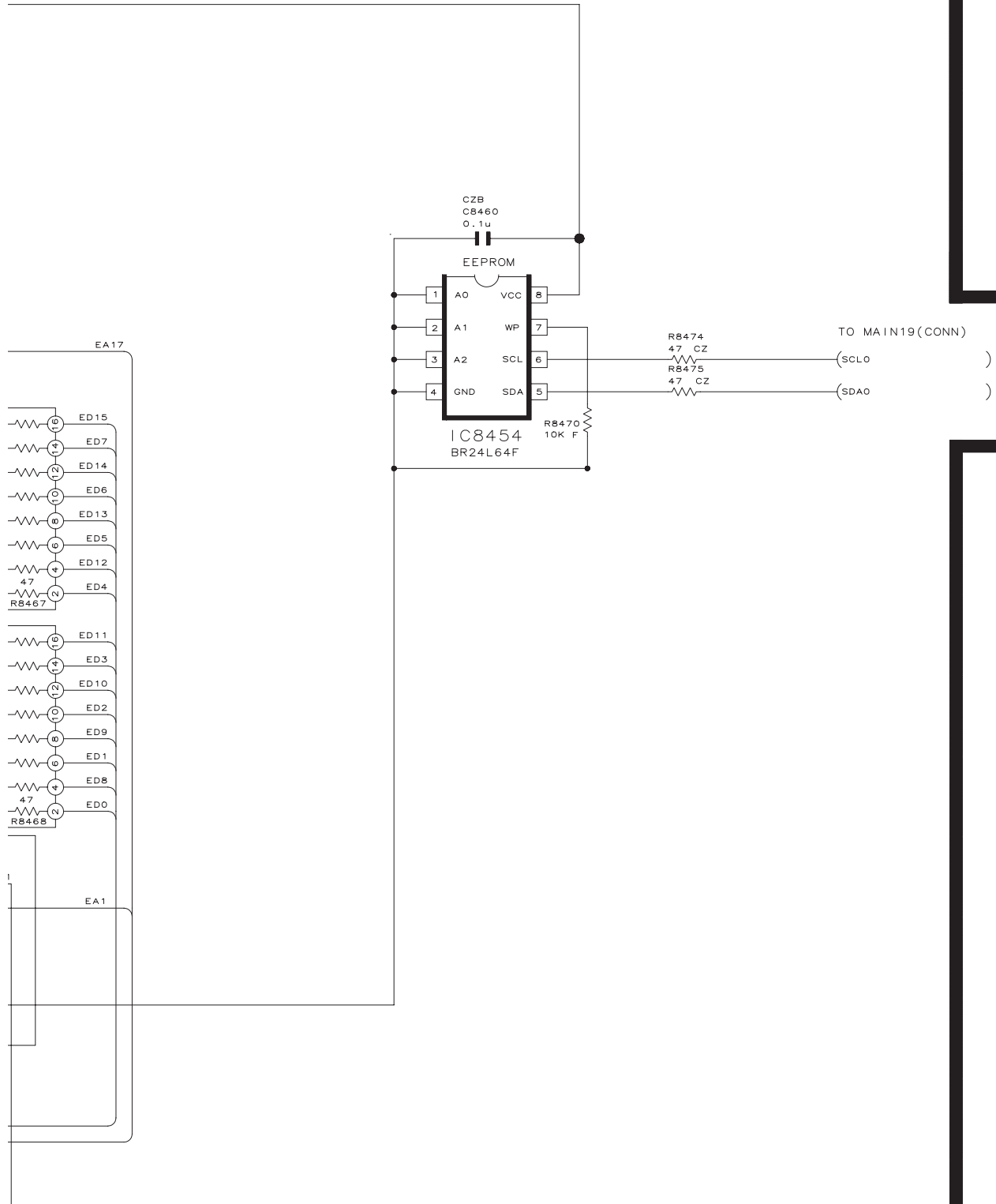
TO MAIN20(CPLD)

FLADD22  
FLADD23  
N\_FLCS1  
N\_FLRST



## MAIN14 (EPROM)

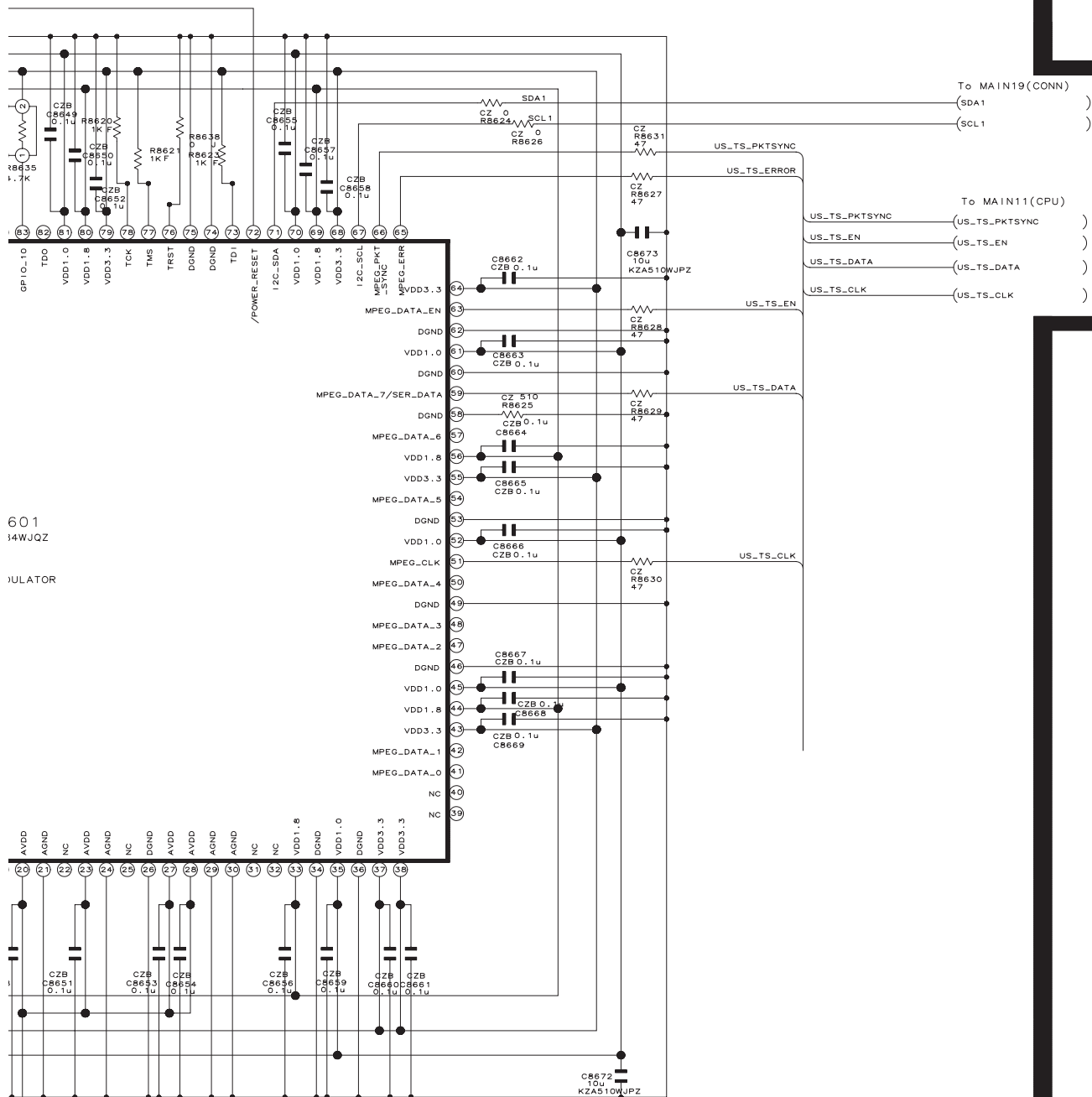
DUNTKD934WE  
(PWBXE028WJ)



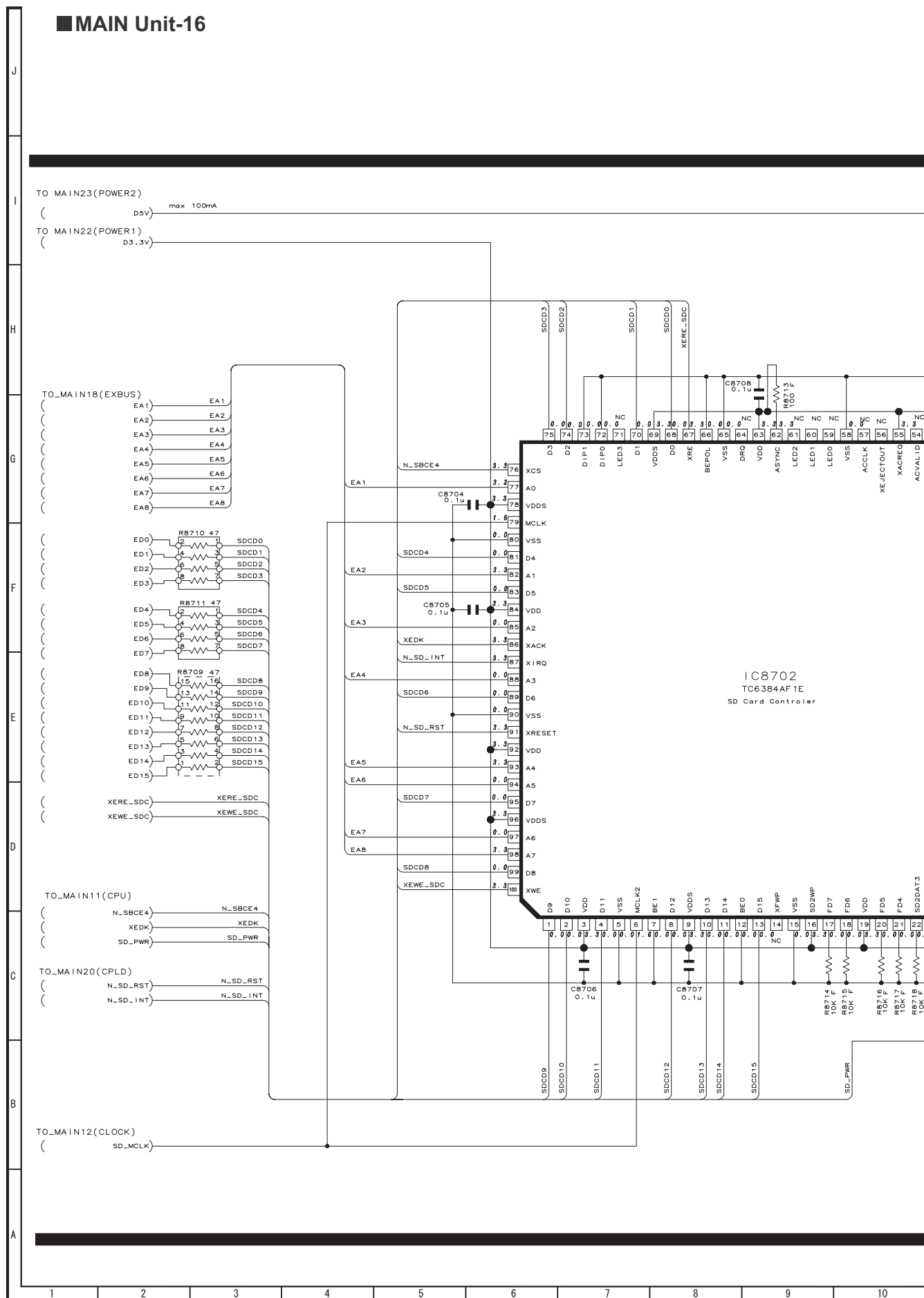




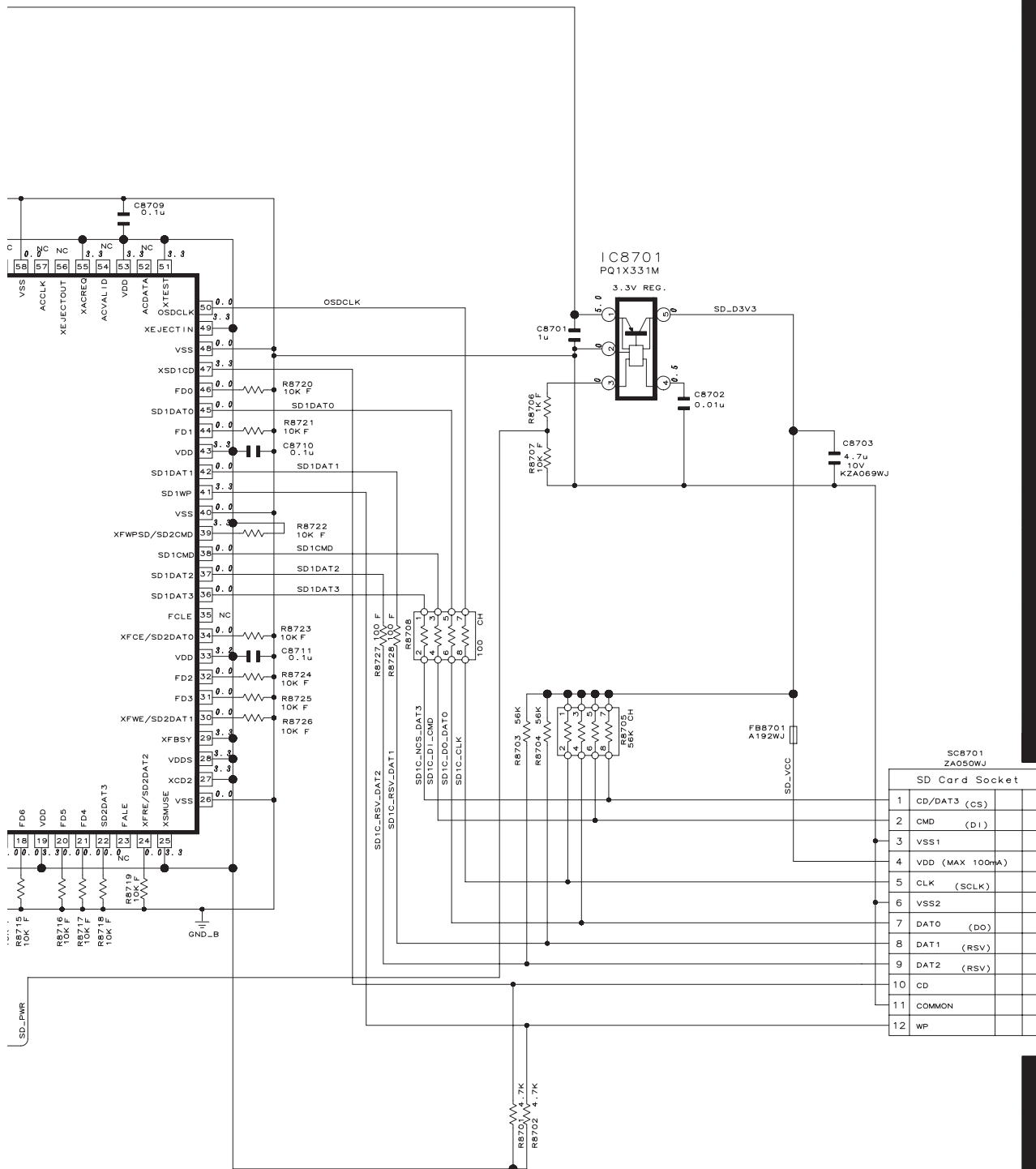
## MAIN15 (DEMOD)



# **MAIN Unit-16**

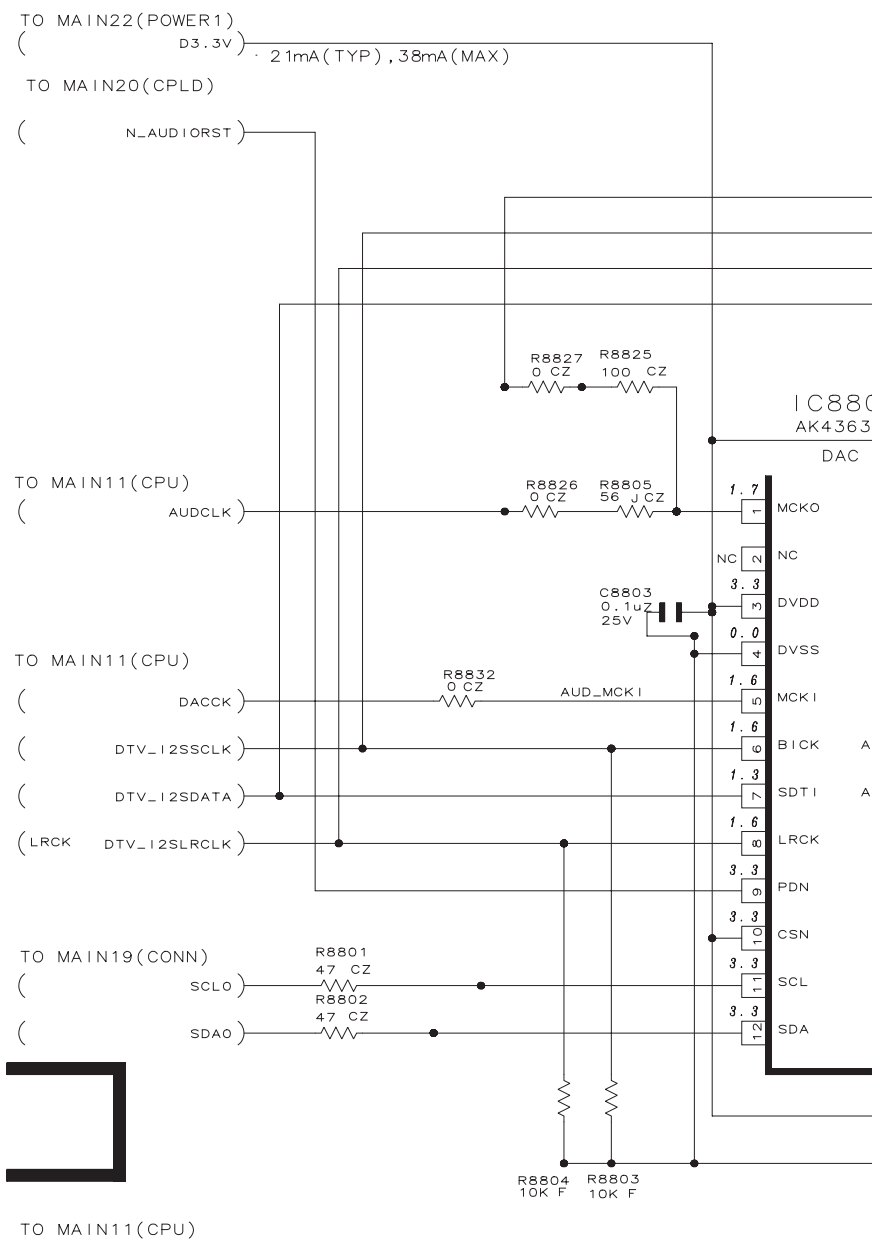


MAIN16 (SDCARD)

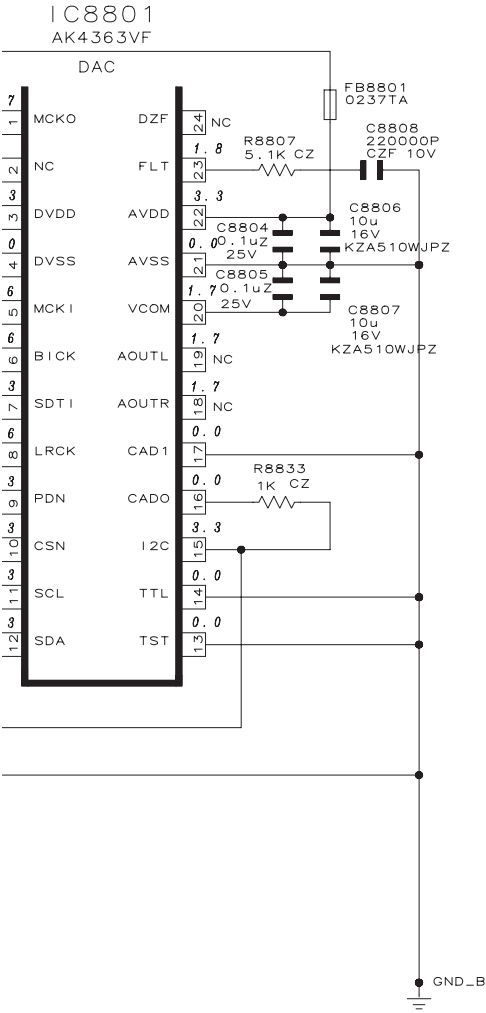
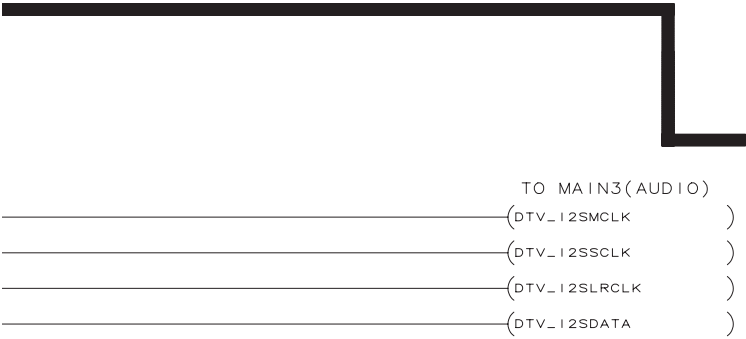
DUNTKD934WE  
(PWBXE028WJ)

## ■ MAIN Unit-17

## MAIN17 (AVOUT)



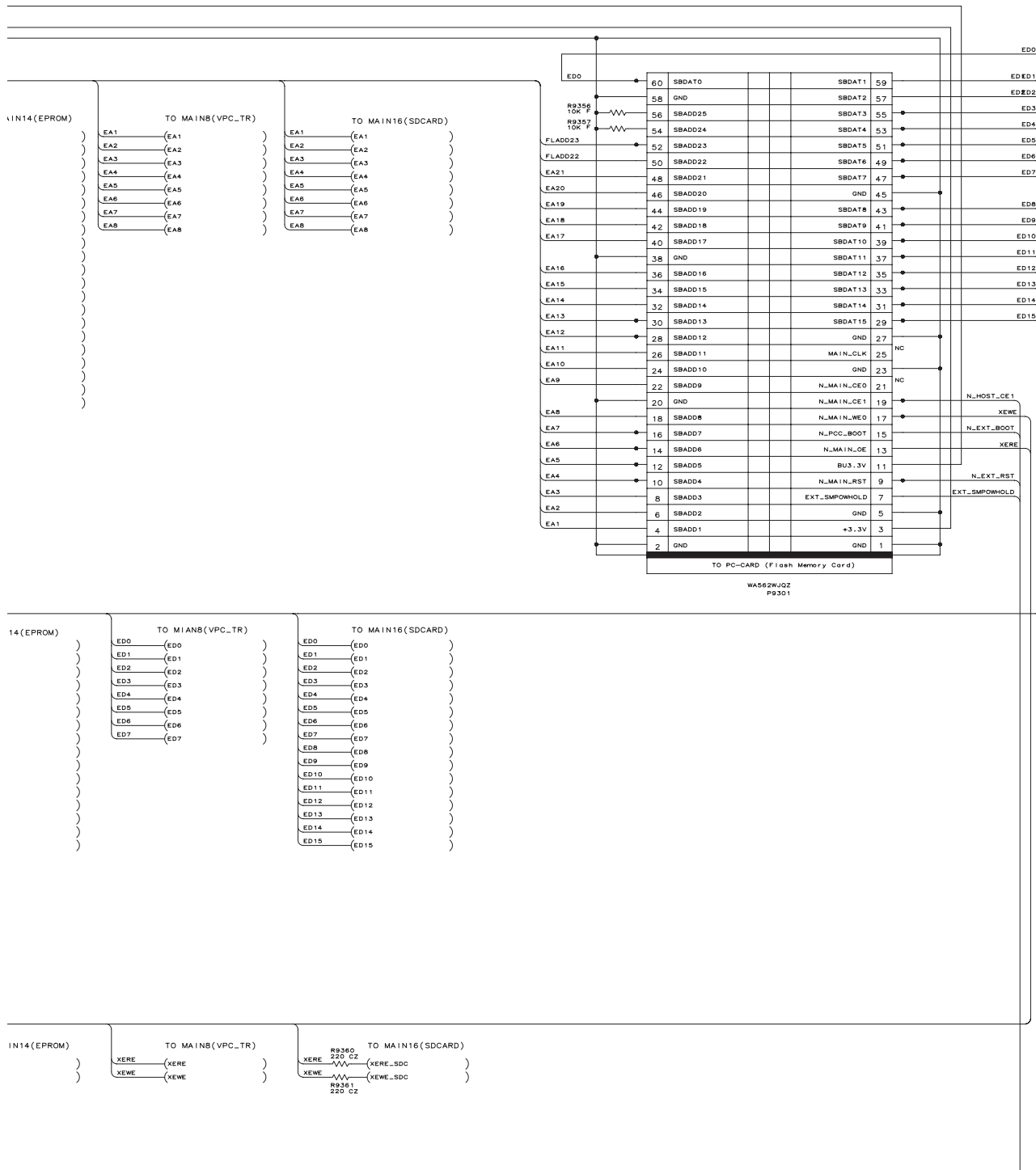
\_DUNT KD934WE  
(PWBXE028WJ)





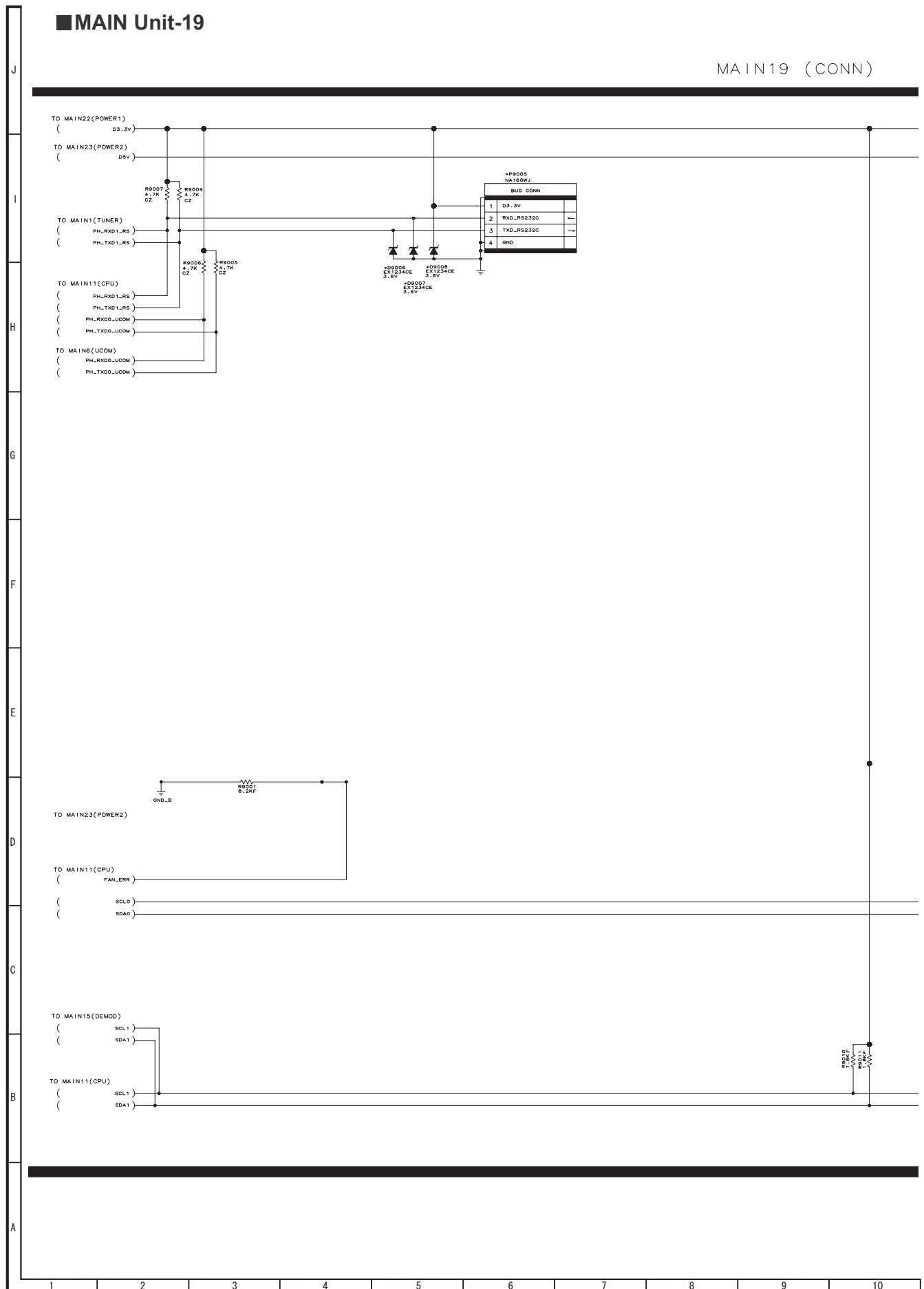
## 8 (EXBUS)

.DUNTKD934WE (PWBXE028WJ)



# **MAIN Unit-19**

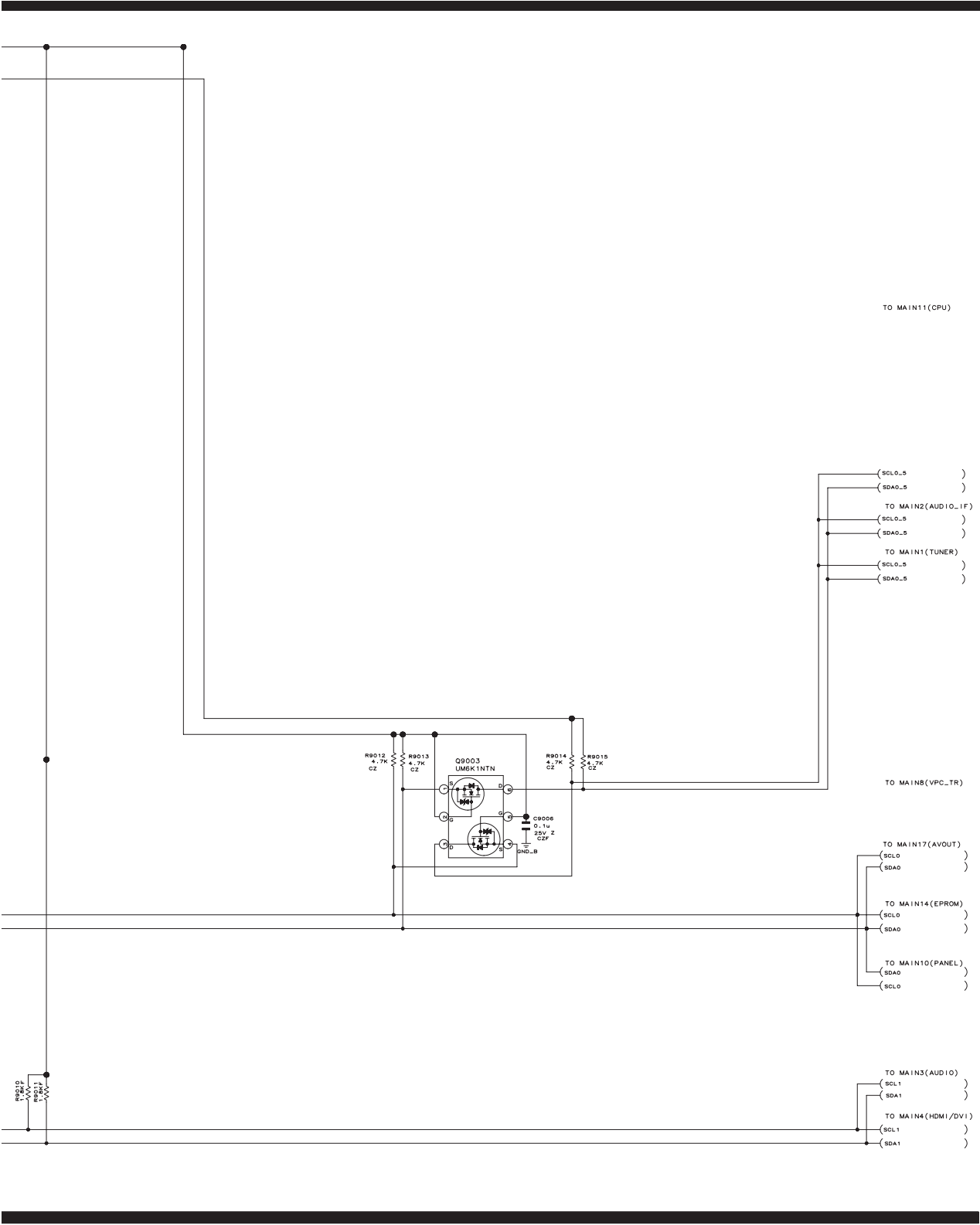
MAIN19 (CONN)





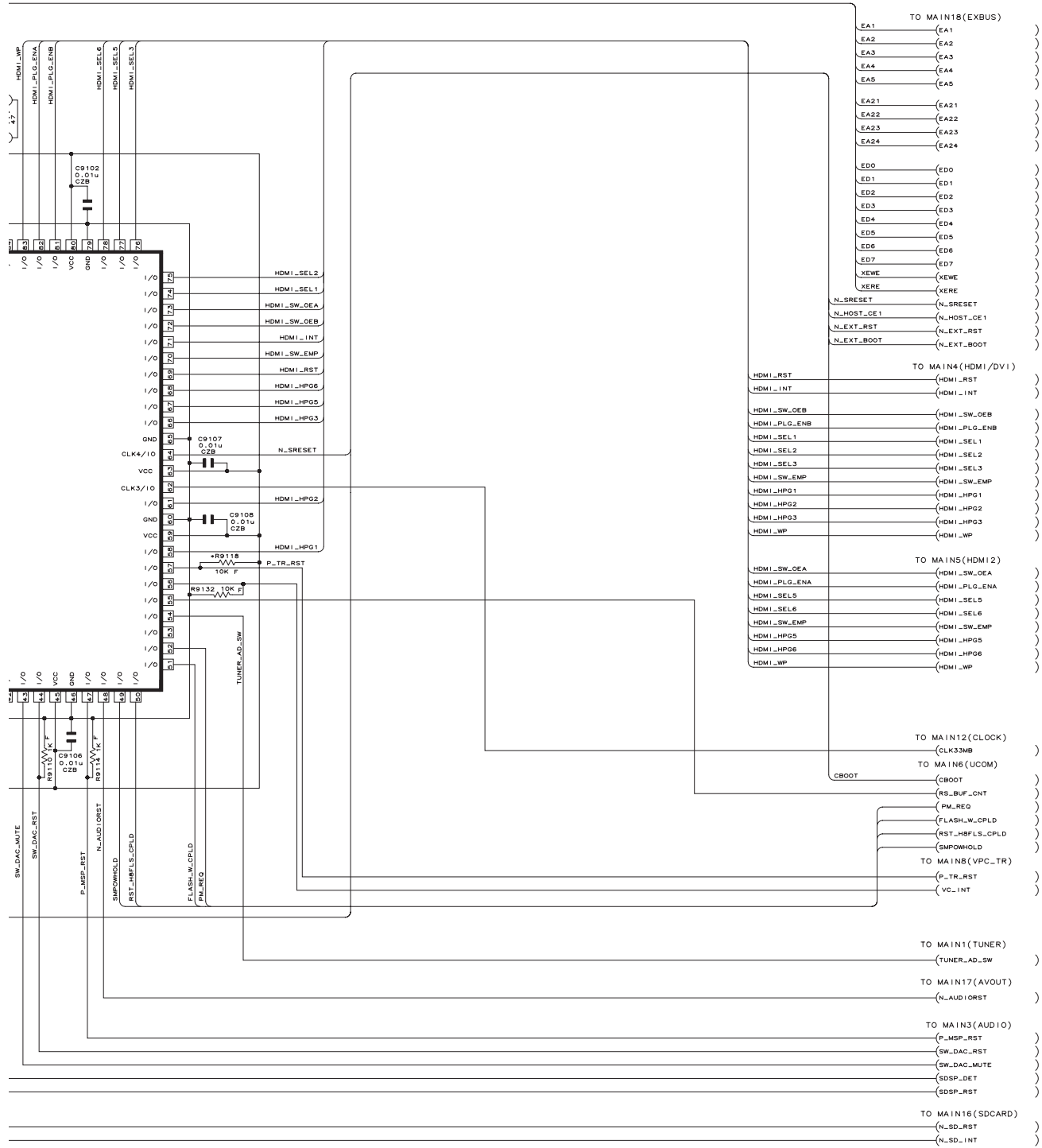
ONN)

.DUNTKD934WE  
(PWBXE028WJ)





## MAIN20 (CPLD)

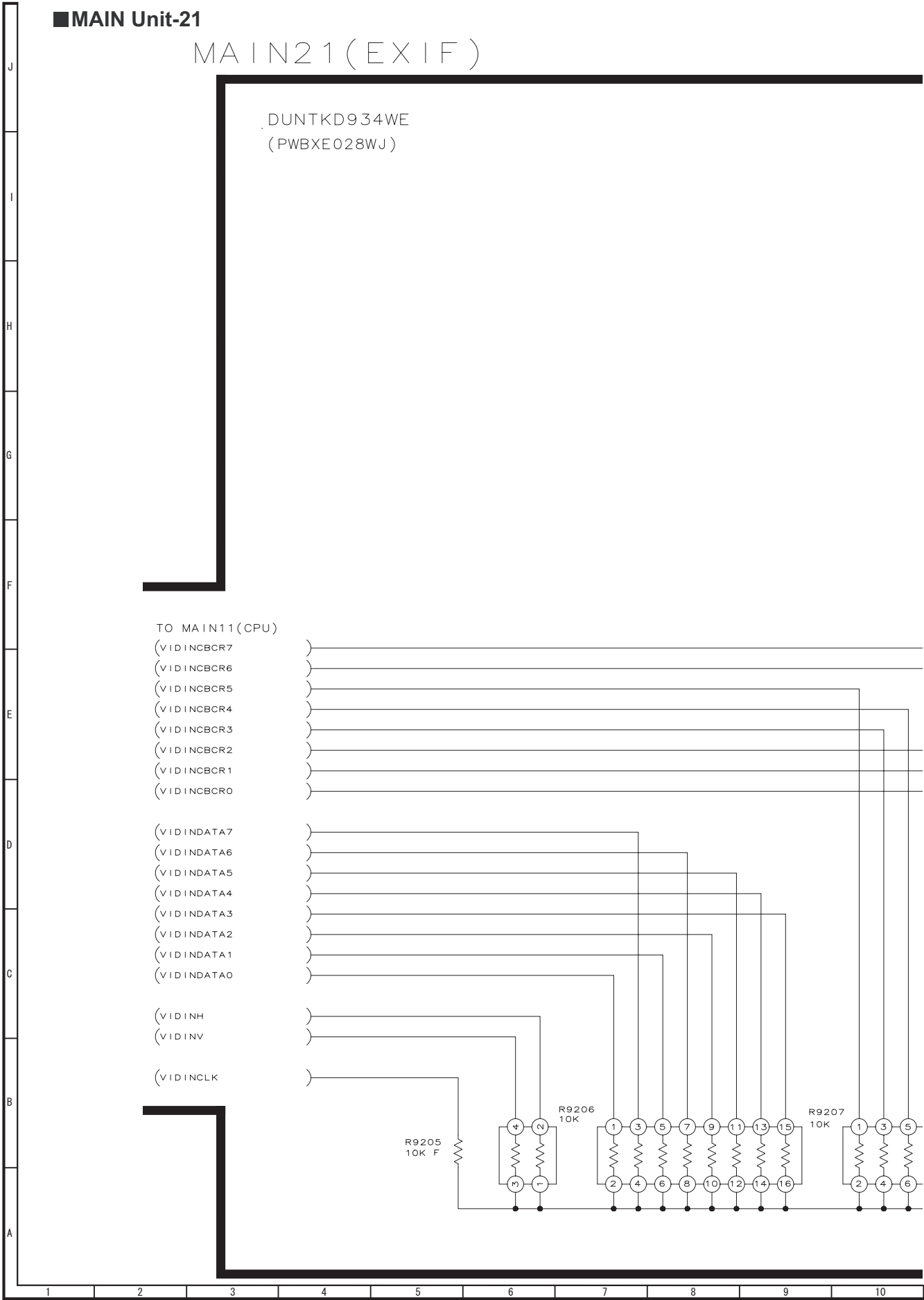


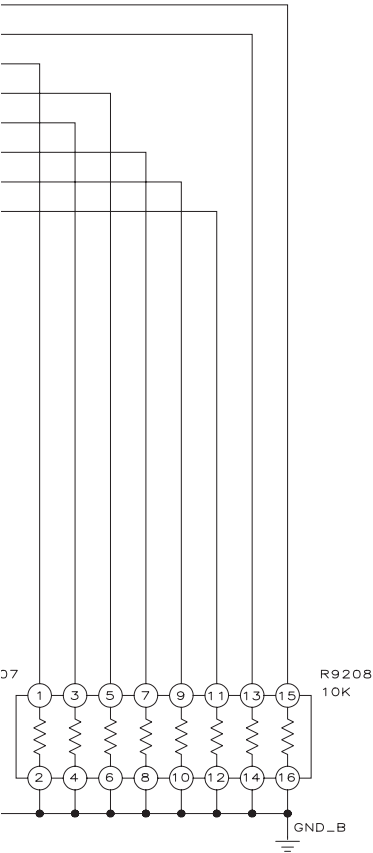
EMC

MAIN Unit-21

MAIN21(EXIF)

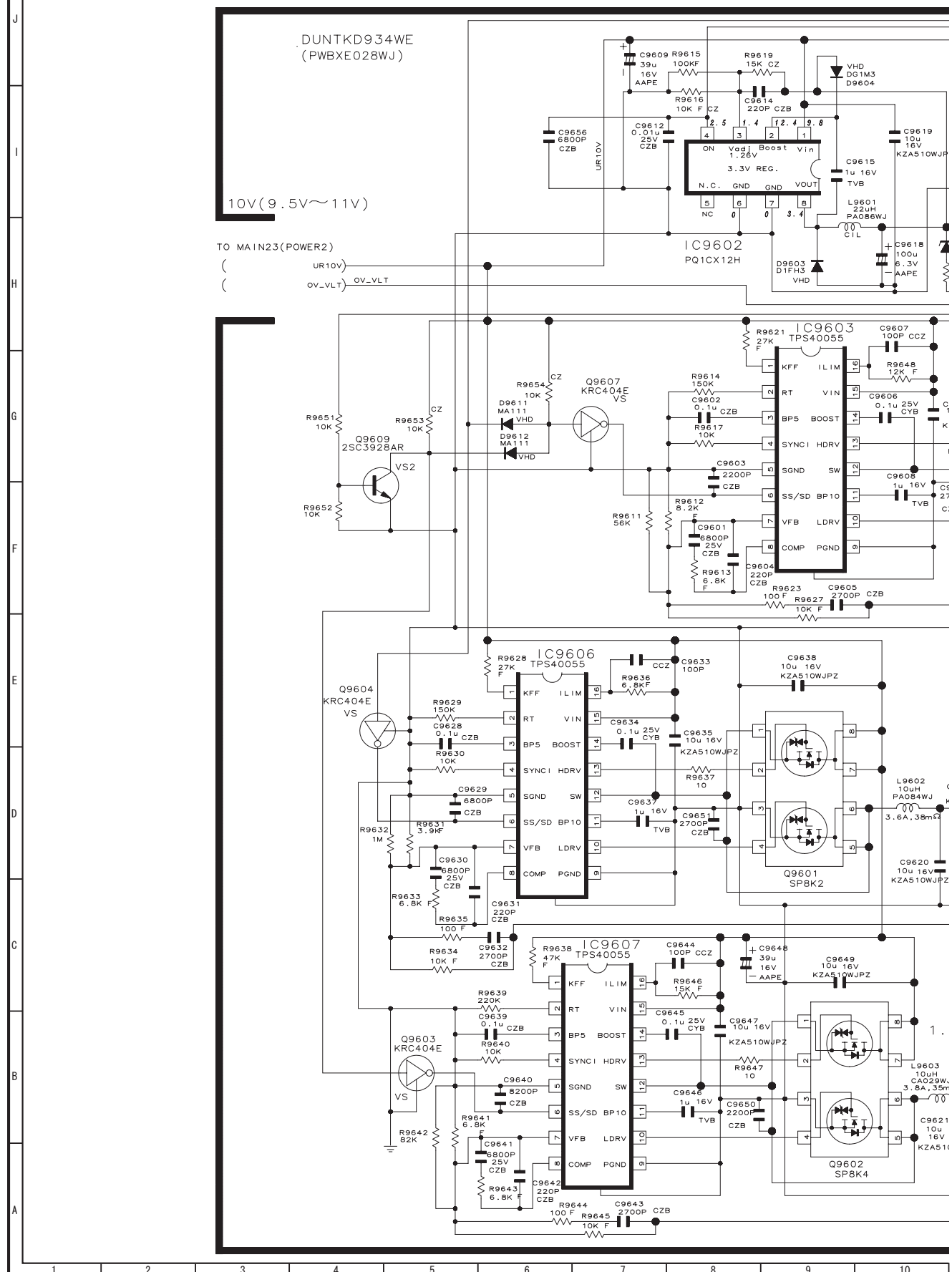
DUNTKD934WE  
(PWBXE028WJ)



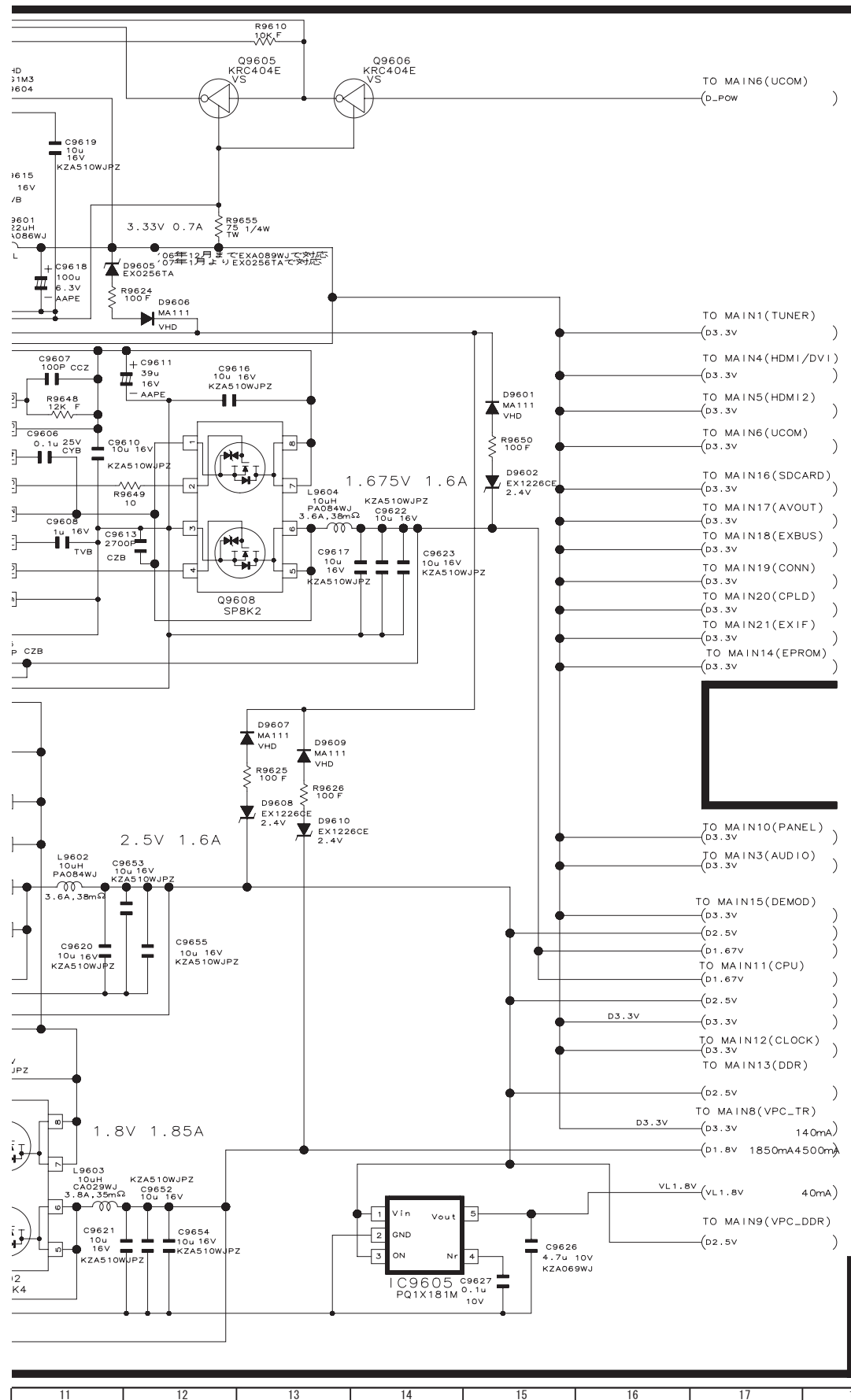


|    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
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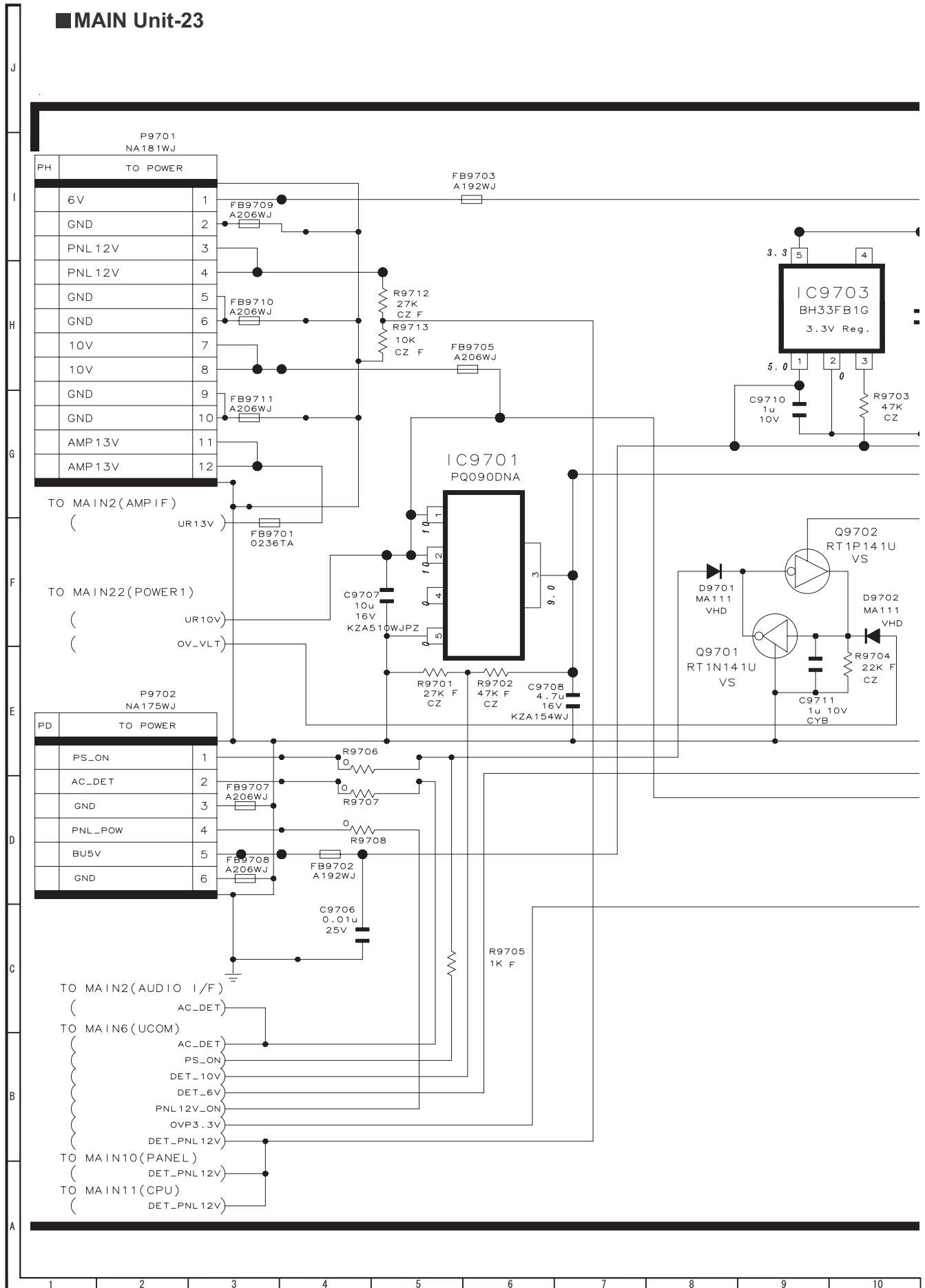
# MAIN Unit-22



MAIN22 (POWER1)

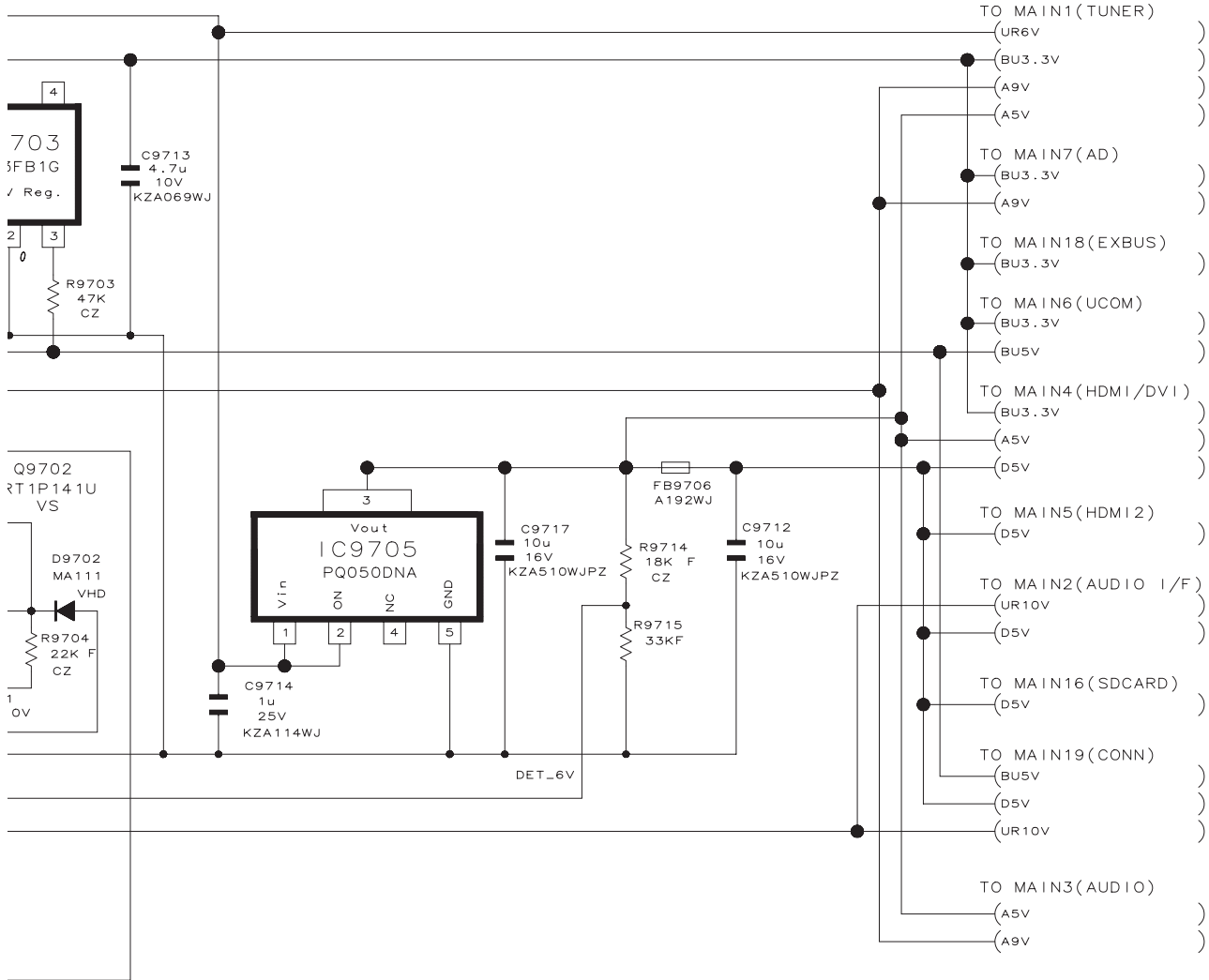


# MAIN Unit-23





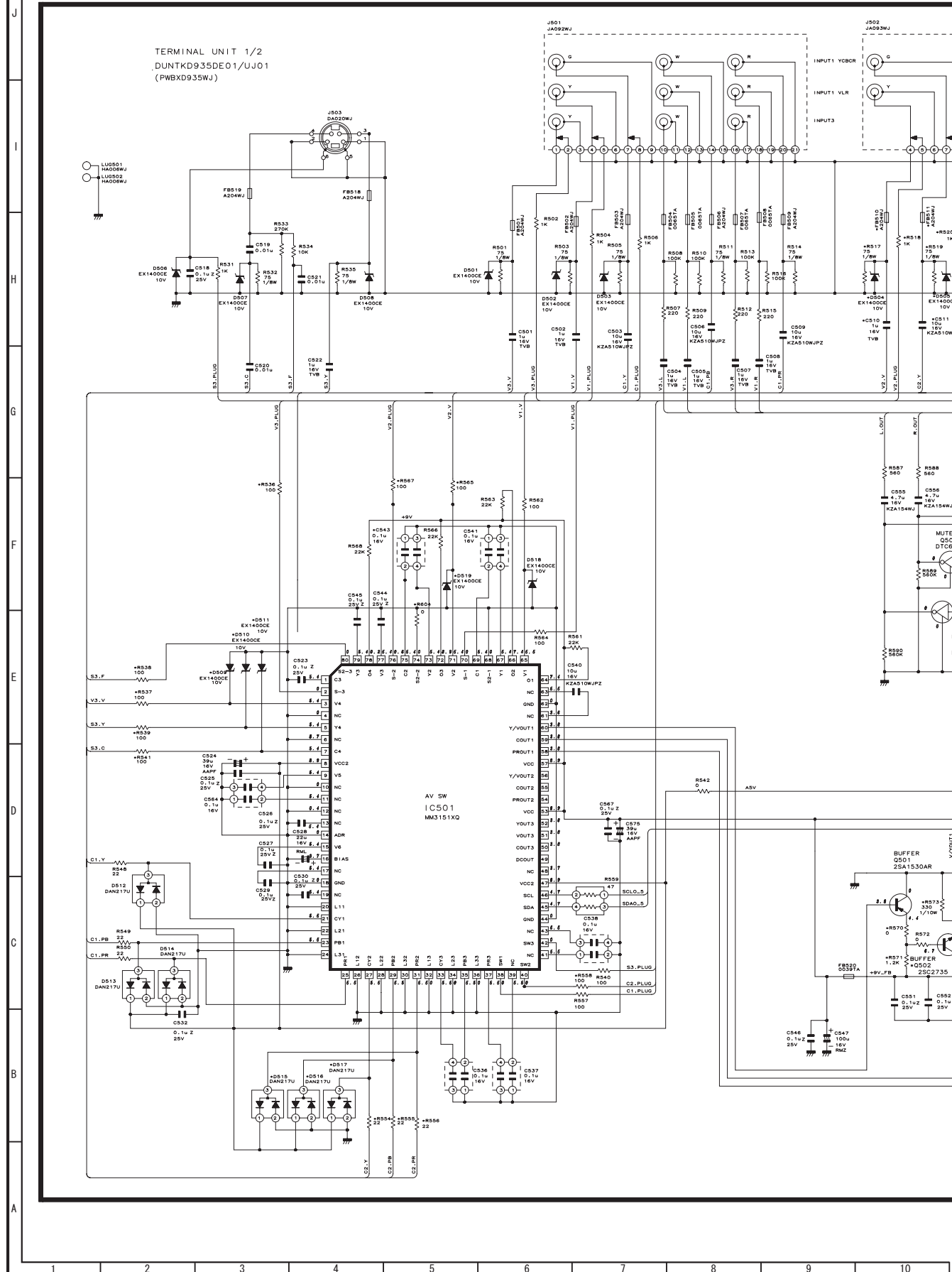
## MAIN23 (POWER2)

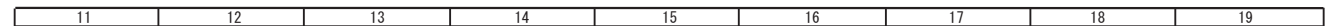
DUNTKD934WE  
(PWBXE028WJ)

TO MAIN10 (PANEL)

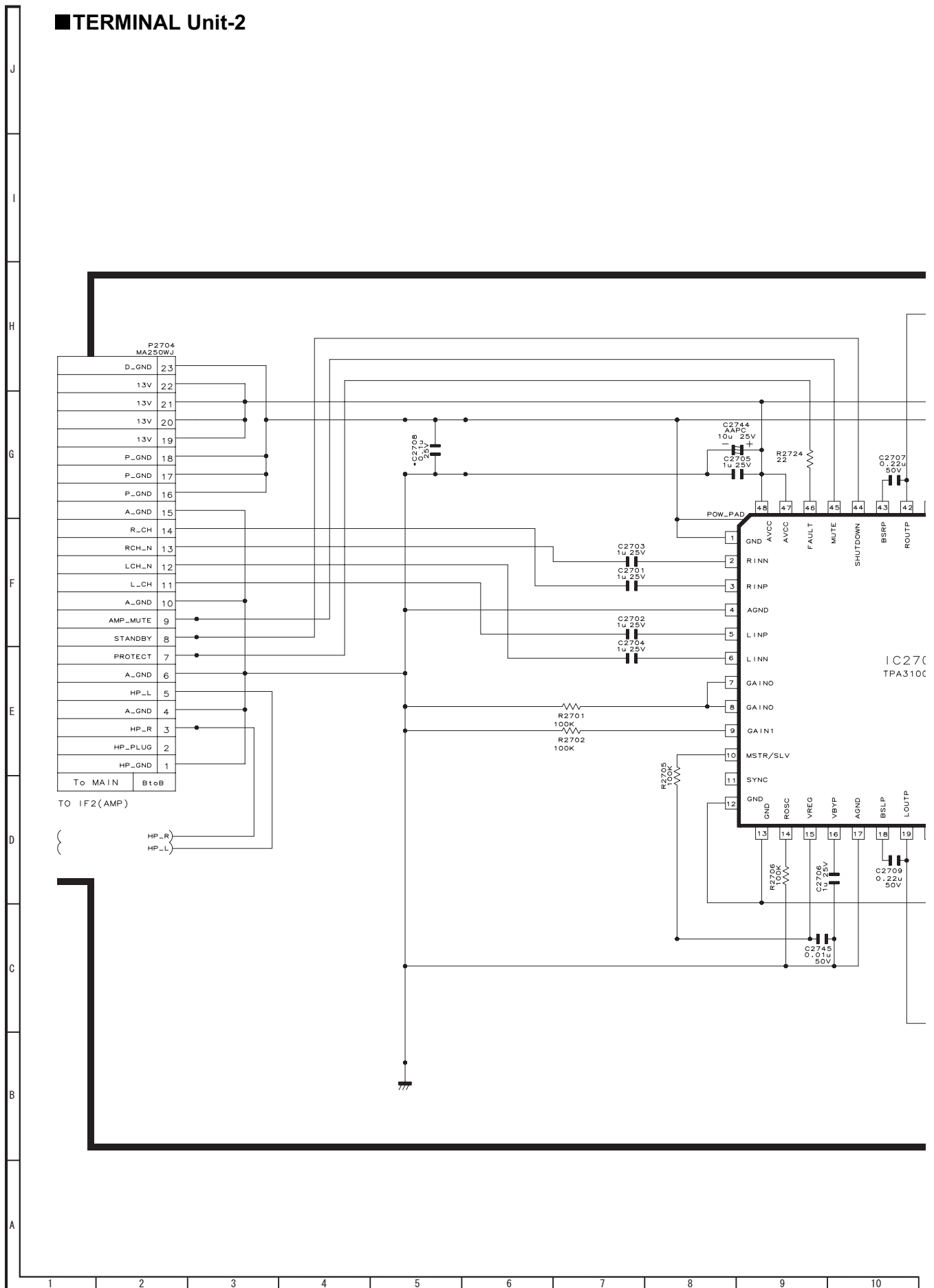
## ■ TERMINAL Unit-1

TERMINAL 1 (TERM

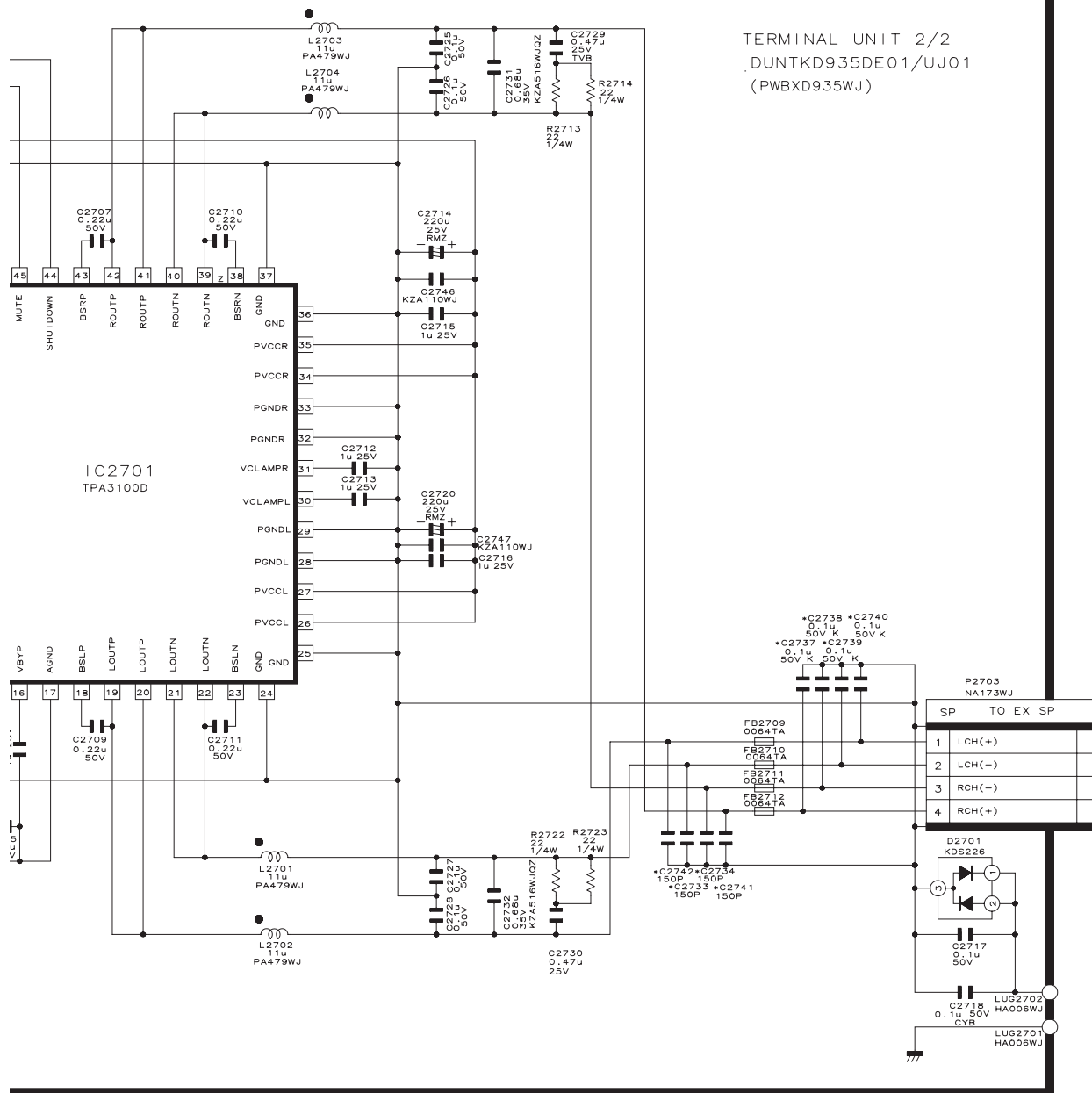




# **■ TERMINAL Unit-2**

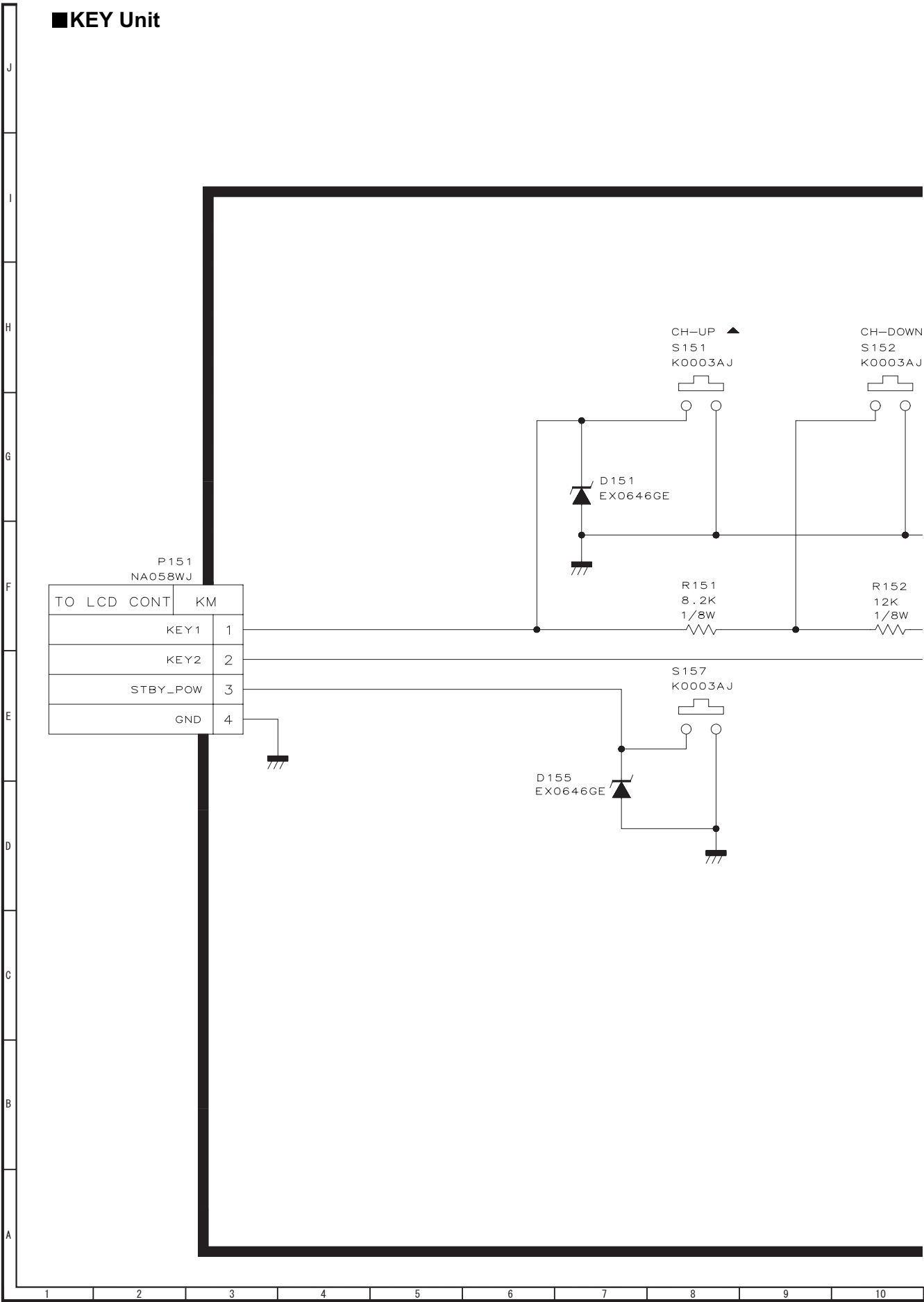


TERMINAL UNIT 2/2  
DUNTKD935DE01/UJ01  
(PWBXD935WJ)

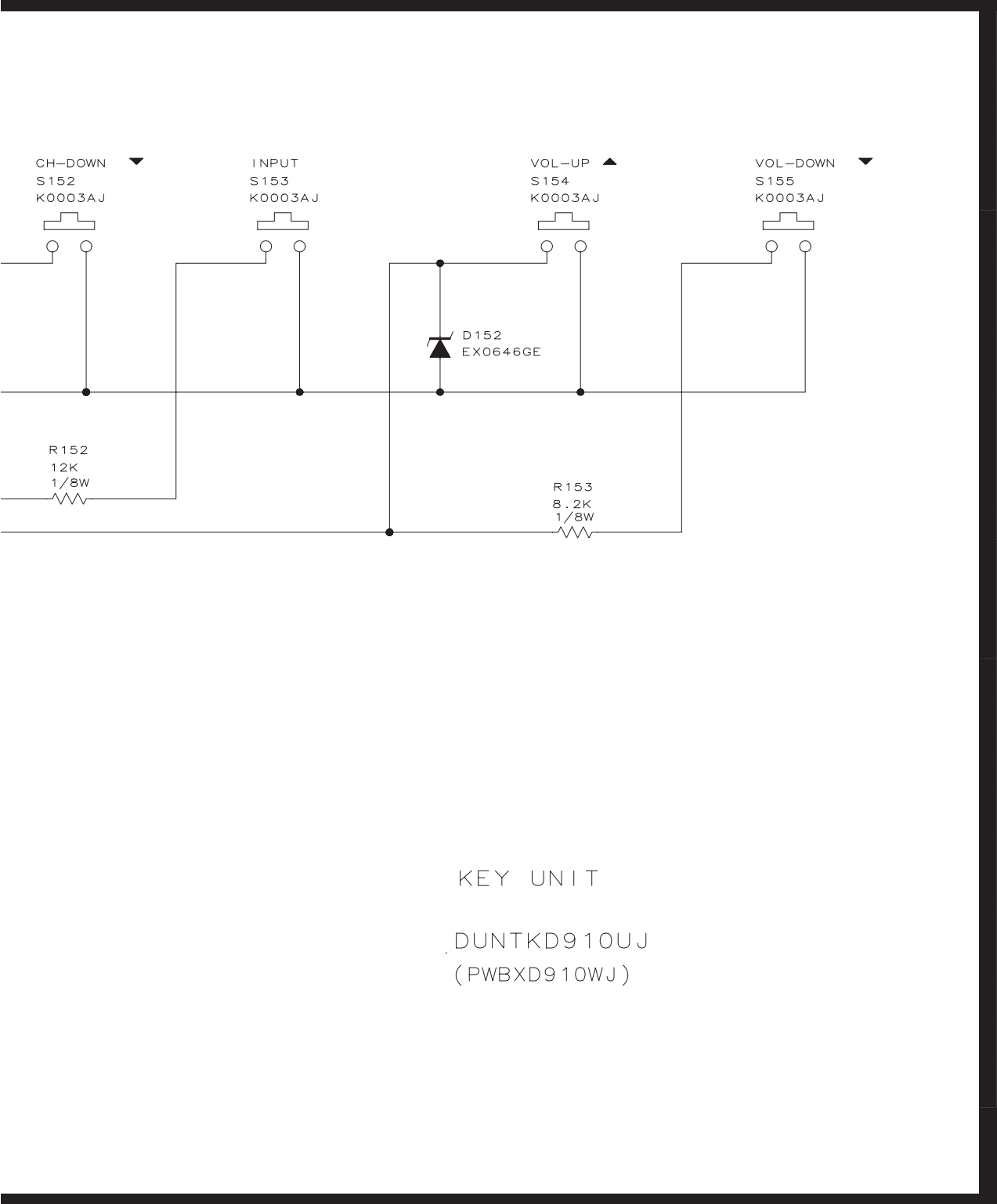


|    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|----|----|----|----|----|----|----|----|----|

KEY Unit



KEY



KEY UNIT

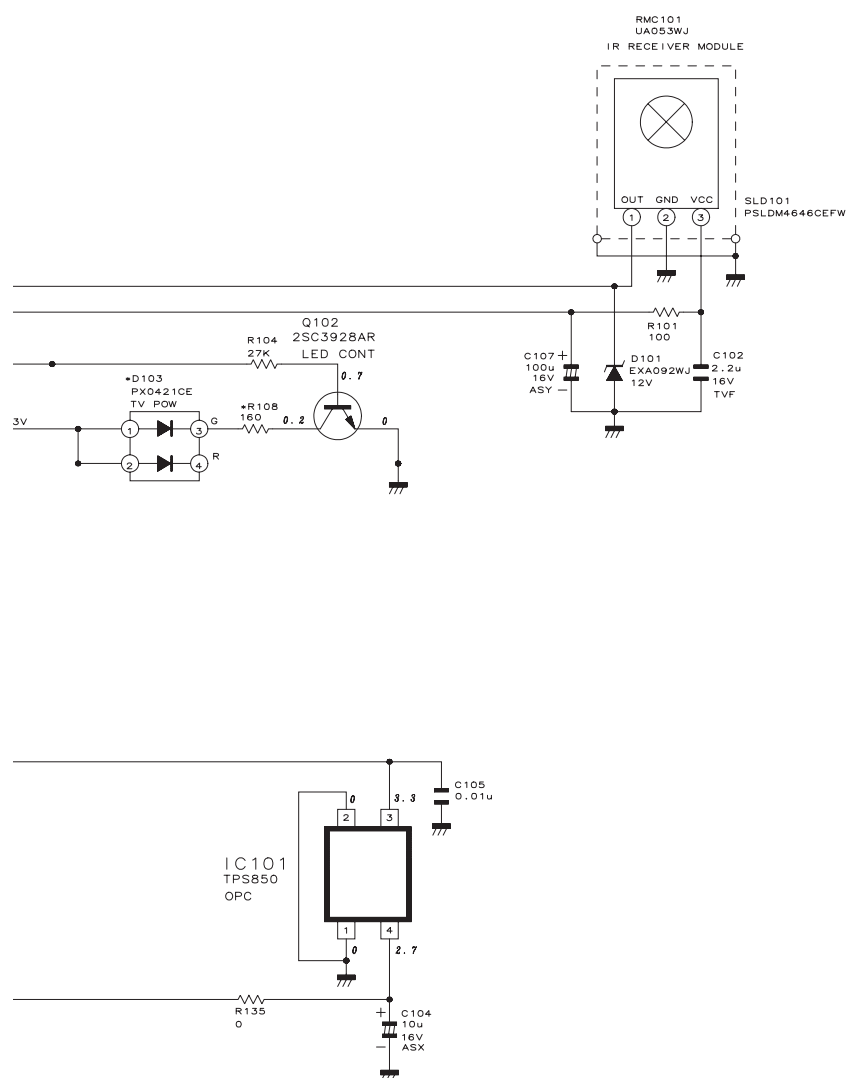
DUNTKD910UJ  
(PWBXD910WJ)

DUNTKD909DE02  
(PWBND909WJ)



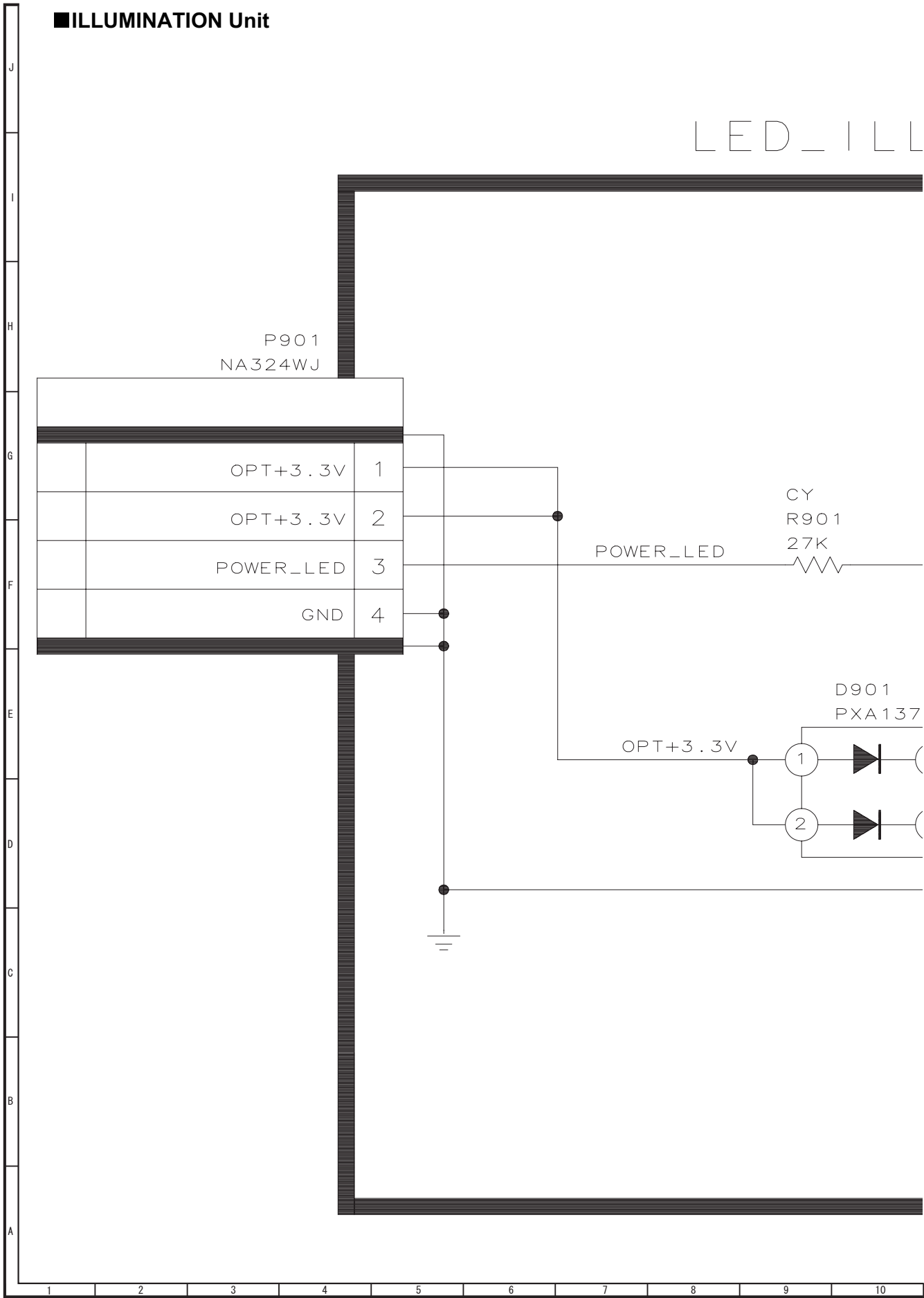


R/C . LED

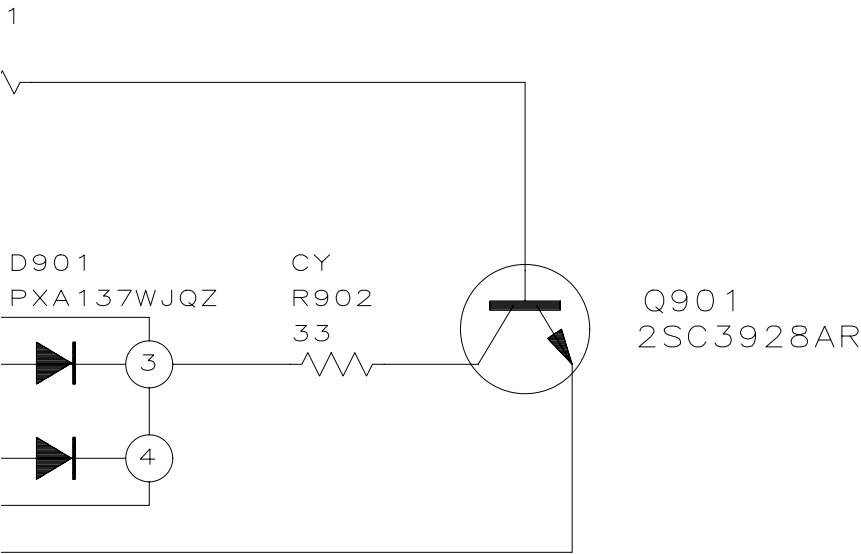


|    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|----|----|----|----|----|----|----|----|----|

ILLUMINATION Unit



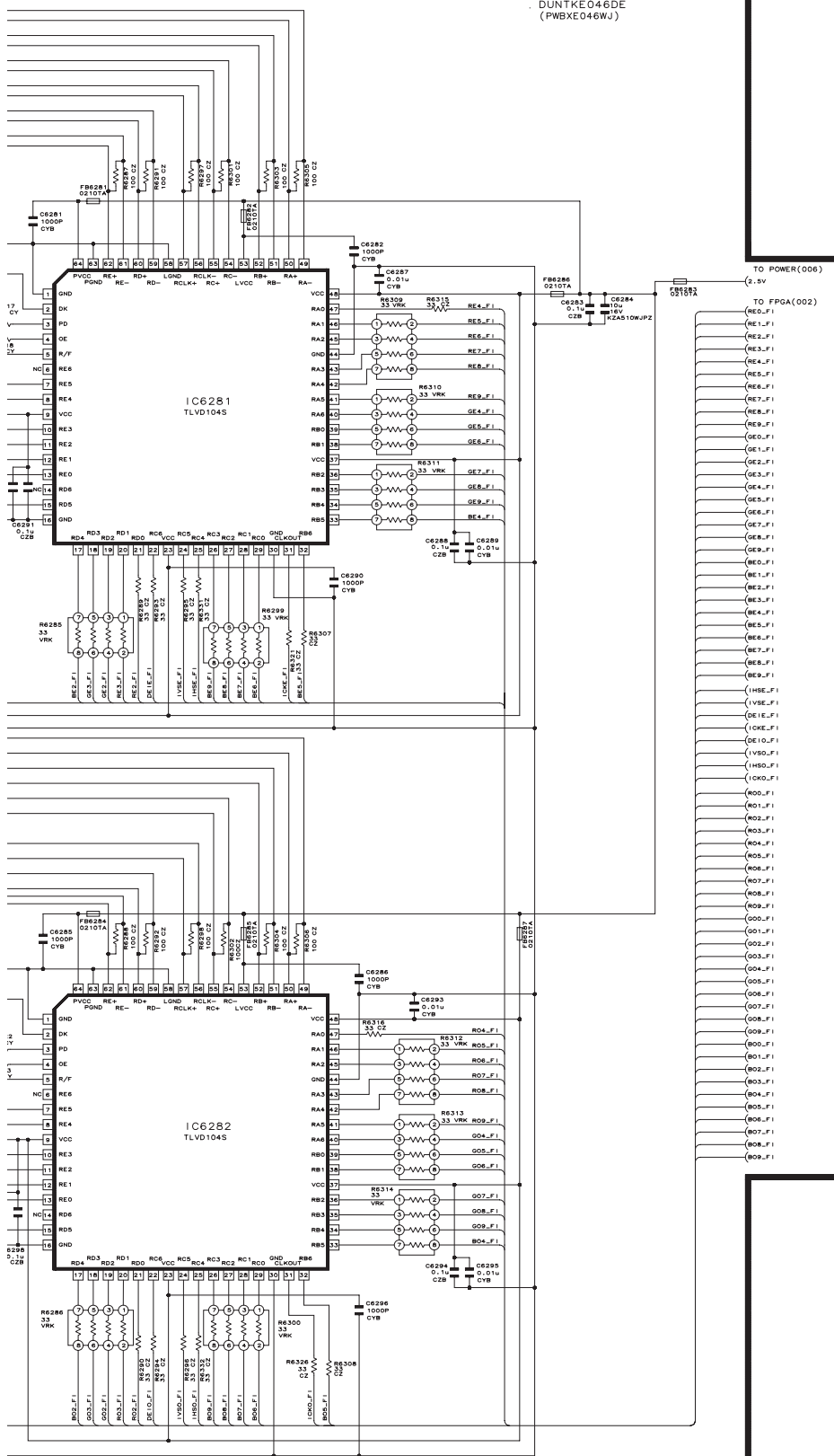
ILLUMINATION



LED\_ILLUMINATION UNIT  
DUNTKD888WE  
(PWBND888WJ)



S1(2006.11.07)

FRC UNIT 1/6  
DUNTKE046DE  
(PWBXE046WJ)

11

12

13

14

15

16

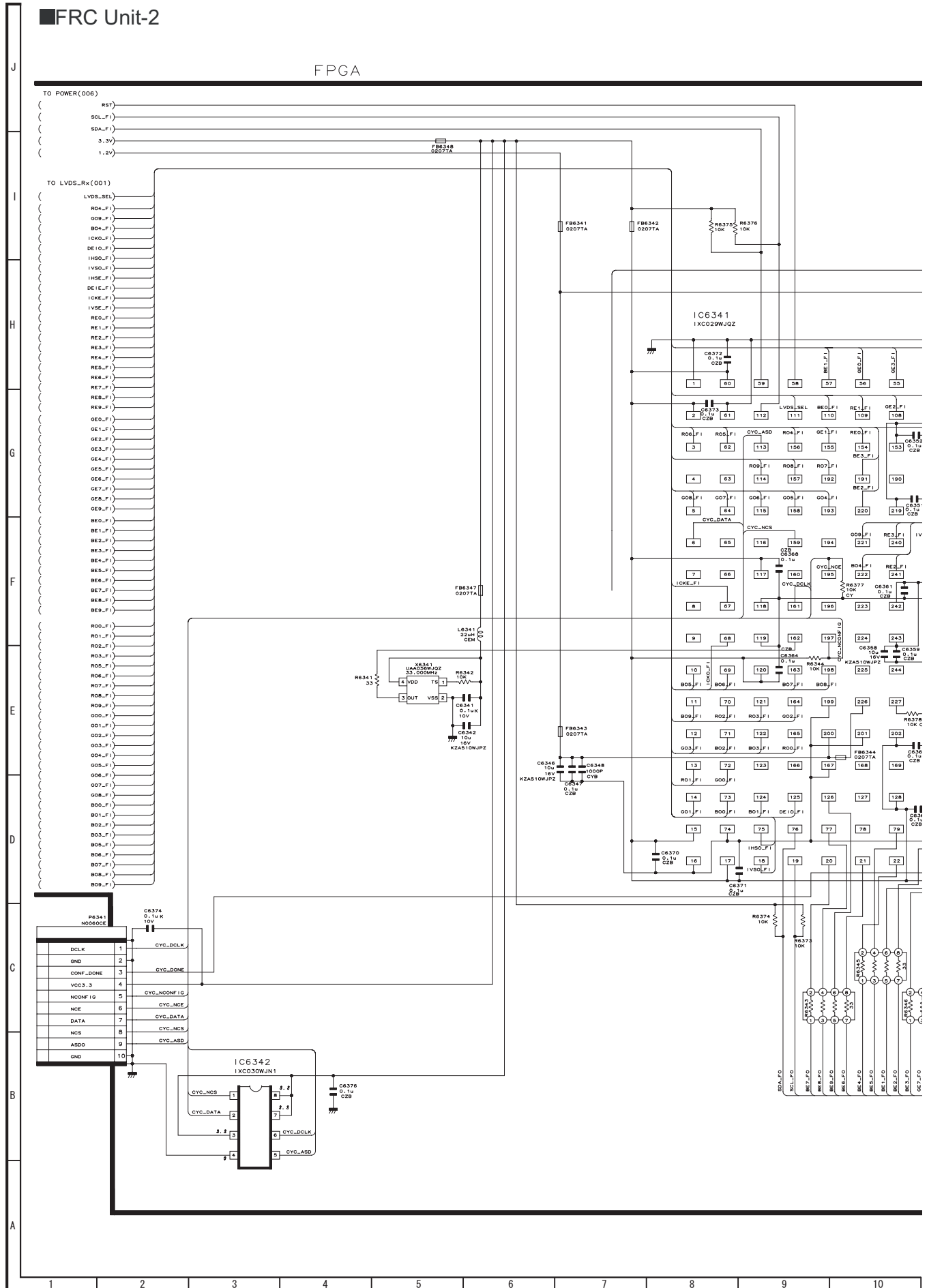
17

18

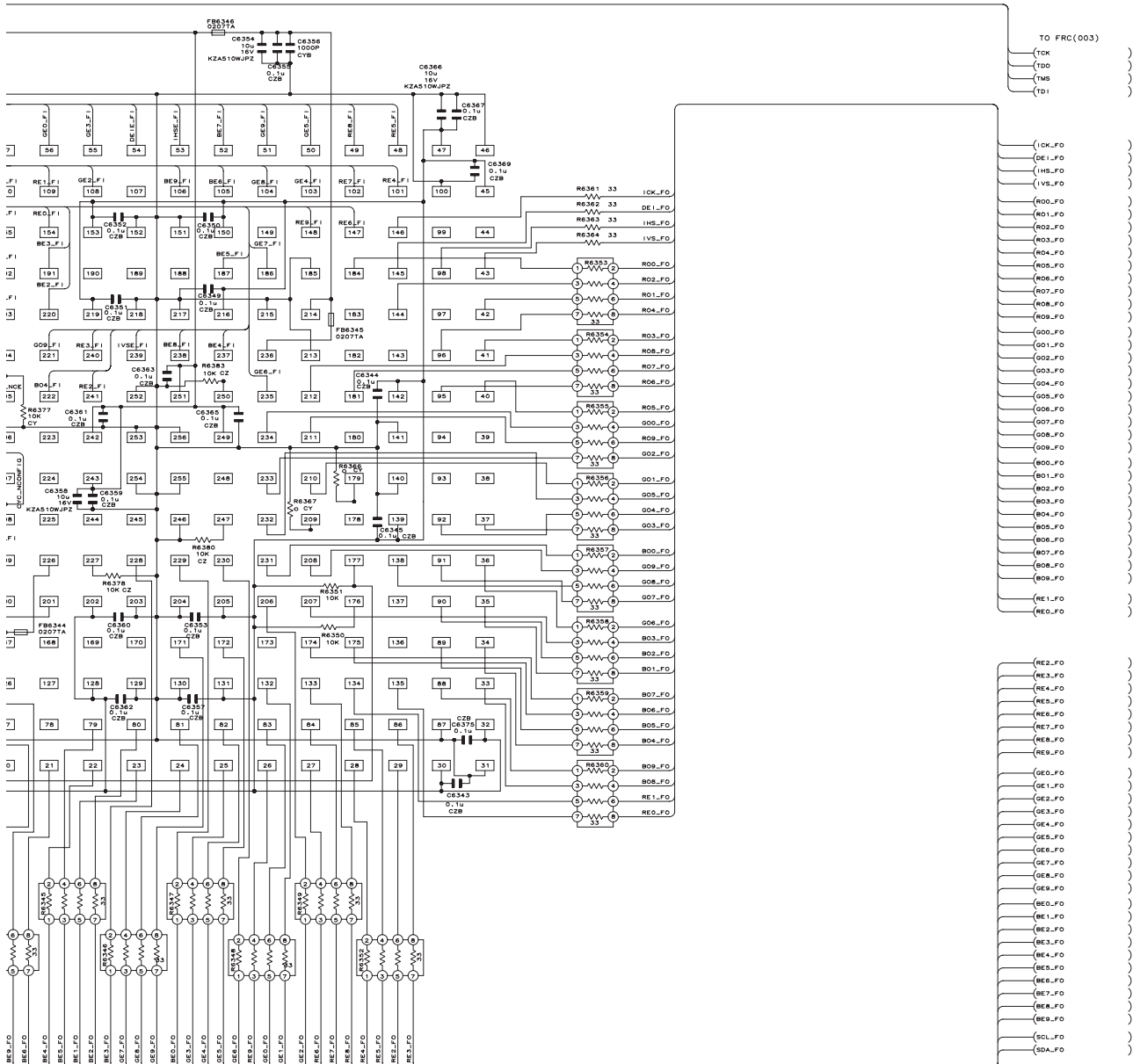
19

## FRC Unit-2

FPGA



FRC UNIT 2/6  
DUNTKE046DE01  
(PWBX046WJ)

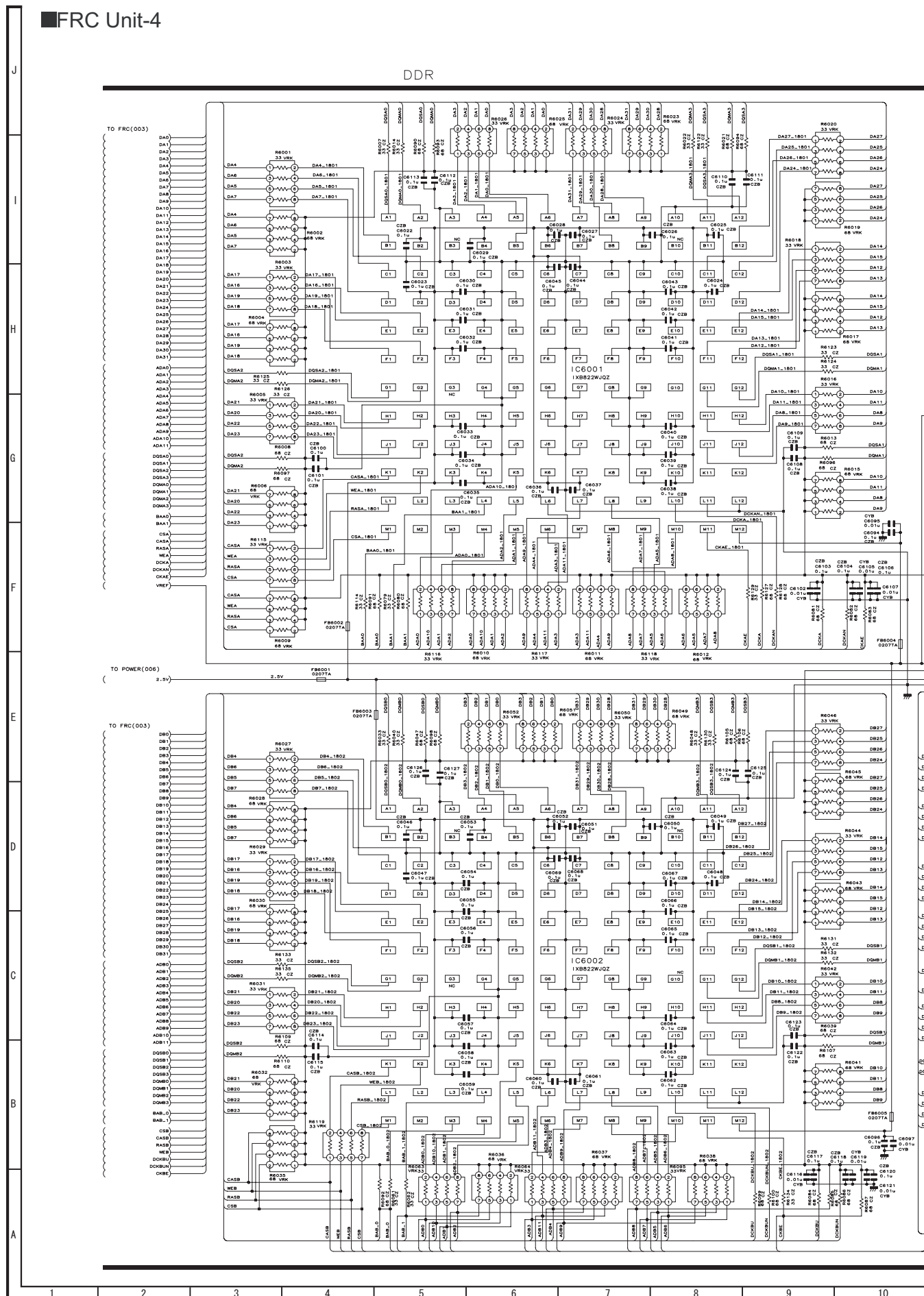


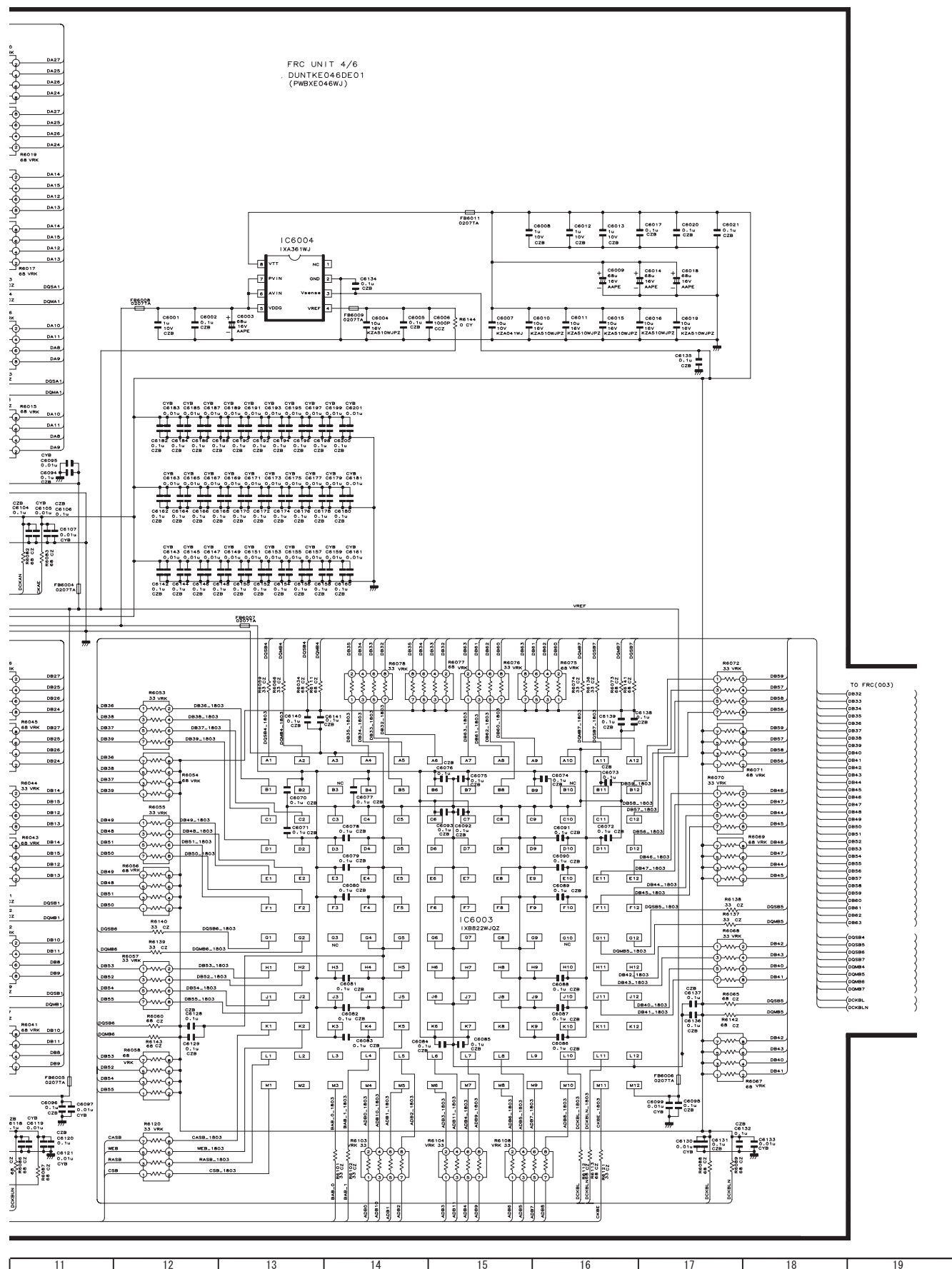




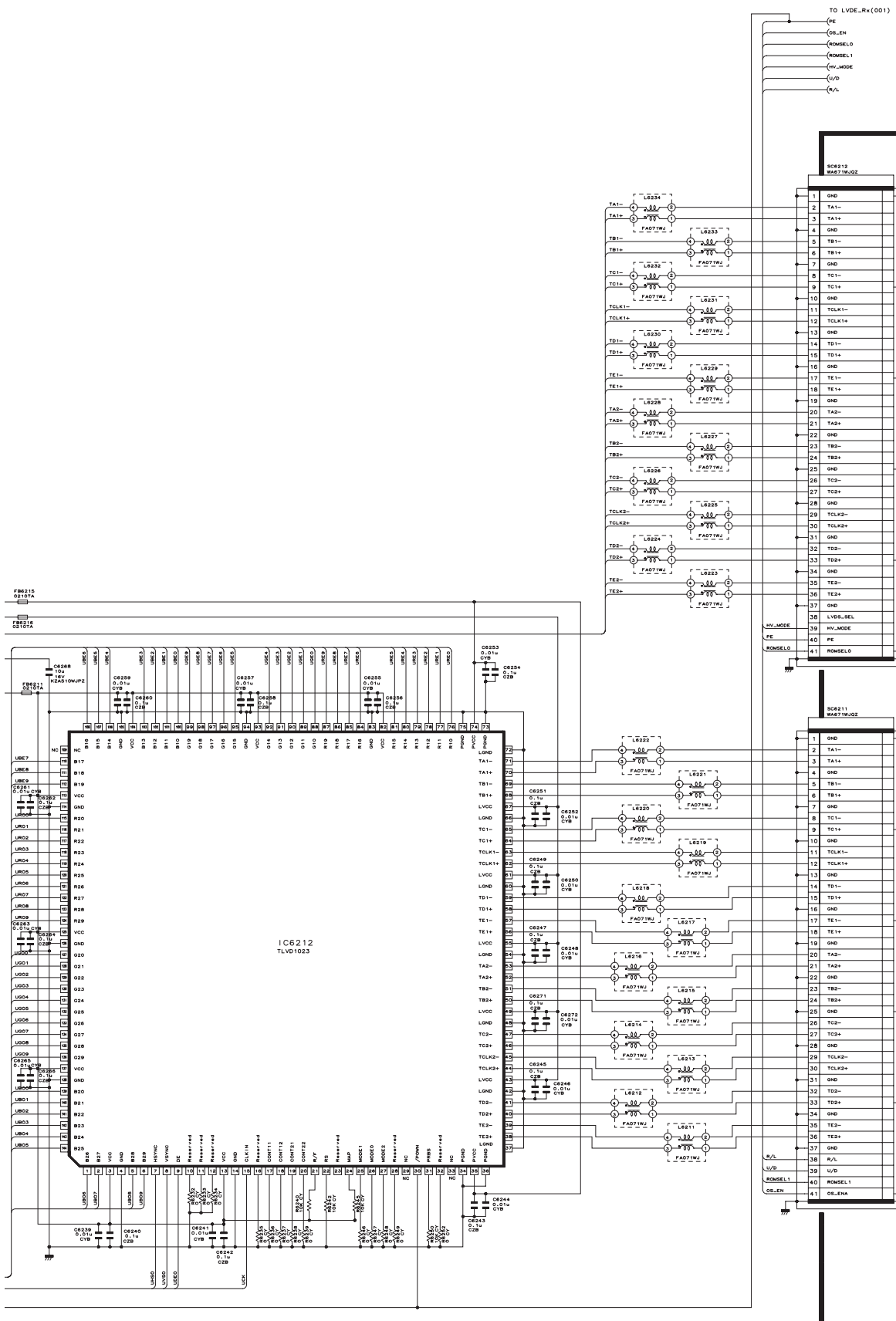


8 – 64







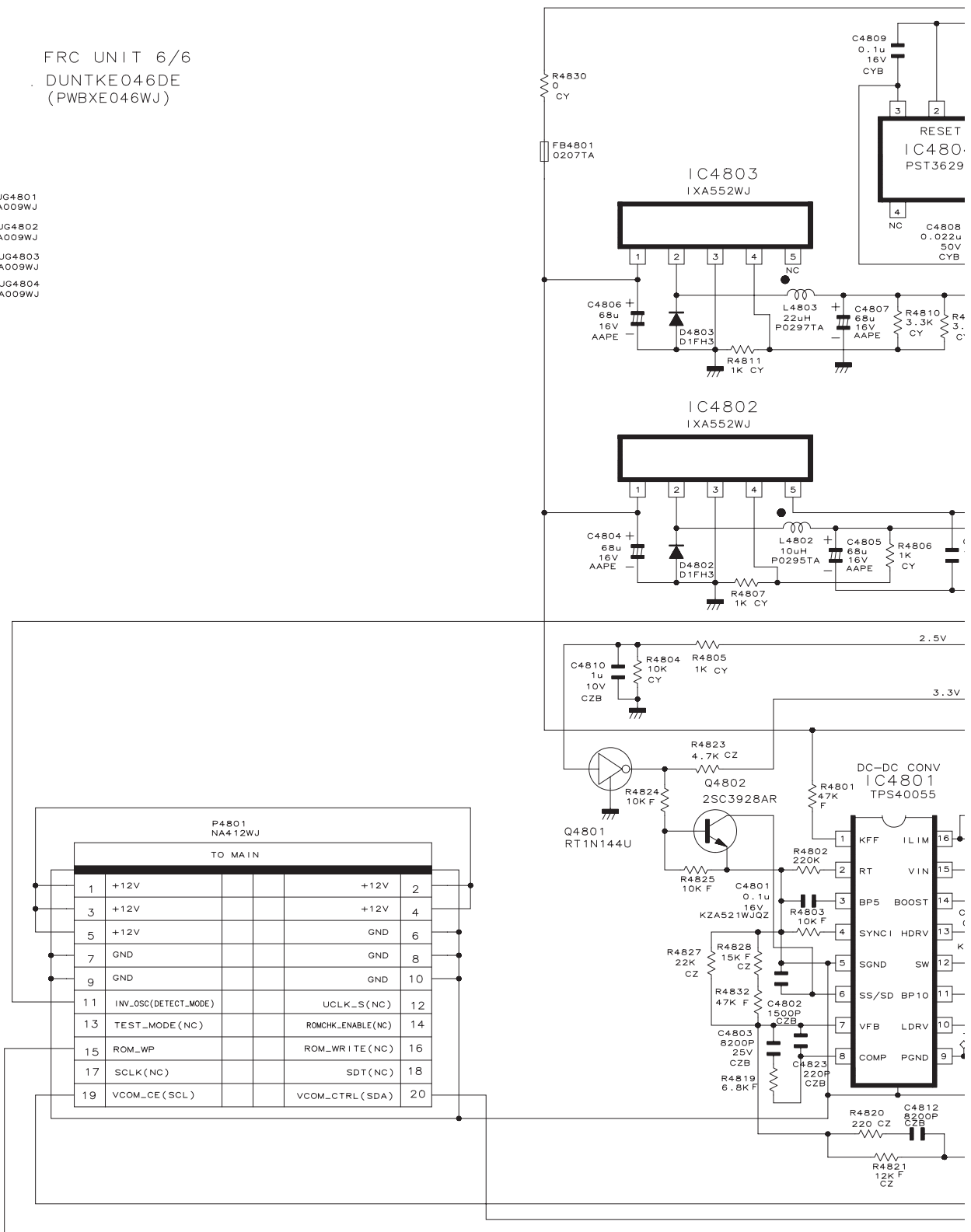


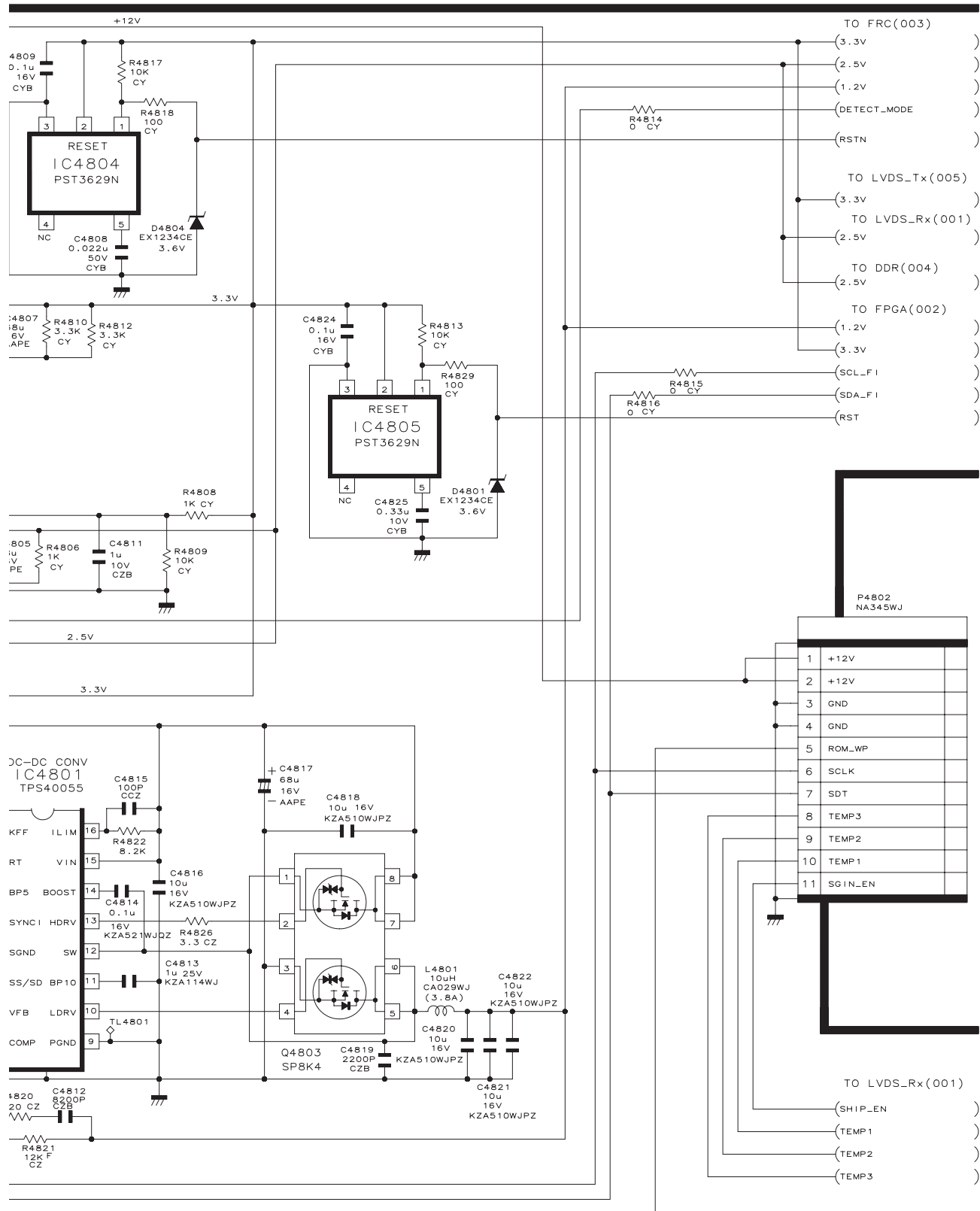
## FRC Unit-6

## POWER

FRC UNIT 6/6  
DUNTKE046DE  
(PWBXE046WJ)

LUG4801  
HA009WJ  
LUG4802  
HA009WJ  
LUG4803  
HA009WJ  
LUG4804  
HA009WJ

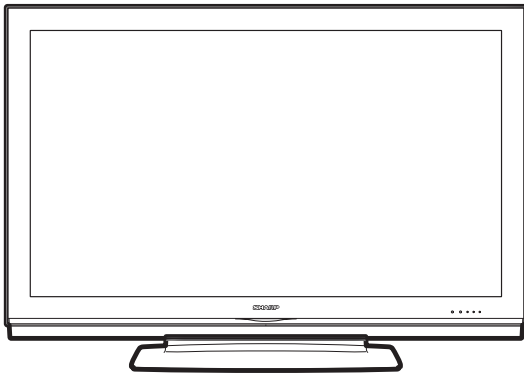








# SHARP PARTS GUIDE



## LCD COLOR TELEVISION

### LC-46D82U

### MODELS LC-52D82U

#### CONTENTS

- |                                                                                                                     |                                              |
|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| [1] PRINTED WIRING BOARD<br>ASSEMBLIES<br>(NOT REPLACEMENT ITEM)                                                    | [7] DUNTKD888WE01<br>(ILLUMINATION Unit)     |
| [2] LCD PANEL AND TUNER<br>(NOTE: THE PARTS HERE<br>SHOWN ARE SUPPLIED AS AN<br>ASSEMBLY BUT NOT<br>INDEPENDENTLY.) | [8] DUNTKE046FE02 (FRC Unit)                 |
| [3] DUNTKE028FE03 (MAIN Unit)                                                                                       | [9] CABINET PARTS (LC-46D82U)                |
| [4] DUNTKD935FE10 (TERMINAL Unit)                                                                                   | [10] CABINET PARTS (LC-52D82U)               |
| [5] DUNTKD910FE02 (KEY Unit)                                                                                        | [11] SUPPLIED ACCESSORIES                    |
| [6] DUNTKD909FE02 (R/C, LED Unit)                                                                                   | [12] PACKING PARTS<br>(NOT REPLACEMENT ITEM) |
|                                                                                                                     | [13] SERVICE JIGS<br>(USE FOR SERVICING)     |

Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

| NO.                                                                                                            | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                       |
|----------------------------------------------------------------------------------------------------------------|----------------|------------|----------|---------------|-----------------------------------|
| <b>[1] PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)</b>                                              |                |            |          |               |                                   |
| N                                                                                                              | DUNTKE028FM03  |            | N        | R             | MAIN Unit                         |
| N                                                                                                              | DUNTKD935FM10  | BG         | N        | X             | TERMINAL Unit                     |
| N                                                                                                              | DUNT KD910FM02 | AG         | N        | X             | KEY Unit                          |
| N                                                                                                              | DUNT KD909FM02 | AQ         | N        | X             | R/C, LED Unit                     |
| N                                                                                                              | DUNT KD888FM01 | AH         | N        | X             | ILLUMINATION Unit                 |
| N                                                                                                              | DUNTKE046FE02  | CC         | N        | J             | FRC Unit                          |
| N                                                                                                              | RDENCA205WJQZ  | BU         |          | X             | POWER SUPPLY Unit (Unit exchange) |
| <b>[2] LCD PANEL AND TUNER (NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.)</b> |                |            |          |               |                                   |
| N                                                                                                              | R1LK460D3LZ2CZ | GG         | N        | J             | 46" LCD Panel Module              |
| N                                                                                                              | R1LK520D3LZ2CZ | HC         | N        | J             | 52" LCD Panel Module              |
| TU1101                                                                                                         | RTUDAA007WJQZ  | BB         |          | R             | Tuner                             |
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b>                                                                           |                |            |          |               |                                   |
| C1101                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1102                                                                                                          | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic          |
| C1103                                                                                                          | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic        |
| C1104                                                                                                          | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic          |
| C1105                                                                                                          | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic        |
| C1107                                                                                                          | RC-KZA114WJZZY | AB         |          | R             | Capacitor 1 25V Ceramic           |
| C1108                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1110                                                                                                          | RC-KZA030WJZZY | AB         |          | R             | Capacitor 2.2 10V Ceramic         |
| C1111                                                                                                          | RC-KZA030WJZZY | AB         |          | R             | Capacitor 2.2 10V Ceramic         |
| C1112                                                                                                          | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic        |
| C1113                                                                                                          | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic        |
| C1115                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1116                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1118                                                                                                          | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic          |
| C1120                                                                                                          | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic        |
| C1122                                                                                                          | VCERML1CN476MY | AC         |          | R             | Capacitor 47 16V Capacitor(AL)    |
| C1123                                                                                                          | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic        |
| C1127                                                                                                          | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic       |
| C1133                                                                                                          | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic       |
| C1134                                                                                                          | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic       |
| C1301                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1303                                                                                                          | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic          |
| C1305                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1308                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1309                                                                                                          | RC-KZA383WJZZY | AC         |          | R             | Capacitor 10 25V Ceramic          |
| C1313                                                                                                          | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic          |
| C1314                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1315                                                                                                          | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic          |
| C1316                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1401                                                                                                          | RC-KZA030WJZZY | AB         |          | R             | Capacitor 2.2 10V Ceramic         |
| C1402                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1403                                                                                                          | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic         |
| C1404                                                                                                          | VCKYCY1AB334KY | AB         |          | R             | Capacitor 0.33 10V Ceramic        |
| C1405                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1406                                                                                                          | VCERMZ1CN107MY | AD         |          | R             | Capacitor 100 16V Capacitor(AL)   |
| C1407                                                                                                          | RC-KZA030WJZZY | AB         |          | R             | Capacitor 2.2 10V Ceramic         |
| C1408                                                                                                          | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic         |
| C1409                                                                                                          | VCKYCZ1CB223KY | AC         |          | R             | Capacitor 0.022 16V Ceramic       |
| C1410                                                                                                          | RC-KZA383WJZZY | AC         |          | R             | Capacitor 10 25V Ceramic          |
| C1411                                                                                                          | RC-KZA508WJQZY | AC         |          | R             | Capacitor 3.3 25V Ceramic         |
| C1412                                                                                                          | RC-KZA030WJZZY | AB         |          | R             | Capacitor 2.2 10V Ceramic         |
| C1414                                                                                                          | RC-KZA069WJZZY | AB         |          | R             | Capacitor 4.7 10V Ceramic         |
| C1416                                                                                                          | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic       |
| C1417                                                                                                          | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic         |
| C1418                                                                                                          | VCKYCZ1CB333KY | AA         |          | R             | Capacitor 0.033 16V Ceramic       |
| C1419                                                                                                          | VCKYCY1CB224KY | AB         |          | R             | Capacitor 0.22 16V Ceramic        |
| C1420                                                                                                          | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic         |
| C1421                                                                                                          | RC-KZA030WJZZY | AB         |          | R             | Capacitor 2.2 10V Ceramic         |
| C1422                                                                                                          | VCKYCY1AB334KY | AB         |          | R             | Capacitor 0.33 10V Ceramic        |
| C1423                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1424                                                                                                          | VCERML1CN476MY | AC         |          | R             | Capacitor 47 16V Capacitor(AL)    |
| C1425                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1426                                                                                                          | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic          |
| C1428                                                                                                          | VCCCCZ1HH330JY | AB         |          | R             | Capacitor 33p 50V Ceramic         |
| C1429                                                                                                          | VCCCCZ1HH330JY | AB         |          | R             | Capacitor 33p 50V Ceramic         |
| C1430                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1433                                                                                                          | RC-KZA069WJZZY | AB         |          | R             | Capacitor 4.7 10V Ceramic         |
| C1434                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1435                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1436                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1437                                                                                                          | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic          |
| C1438                                                                                                          | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic         |
| C1439                                                                                                          | RC-KZA176WJZZY | AC         |          | R             | Capacitor 10 10V Ceramic          |
| C1440                                                                                                          | RC-KZA030WJZZY | AB         |          | R             | Capacitor 2.2 10V Ceramic         |
| C1441                                                                                                          | VCKYTV1CB105KY | AC         |          | R             | Capacitor 1 16V Ceramic           |
| C1443                                                                                                          | VCKYTV1CB105KY | AC         |          | R             | Capacitor 1 16V Ceramic           |
| C1444                                                                                                          | VCKYTV1CB105KY | AC         |          | R             | Capacitor 1 16V Ceramic           |
| C1447                                                                                                          | VCKYTV1CB105KY | AC         |          | R             | Capacitor 1 16V Ceramic           |
| C1449                                                                                                          | VCKYTV1CB105KY | AC         |          | R             | Capacitor 1 16V Ceramic           |

| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                     |
|--------------------------------------|----------------|------------|----------|---------------|---------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                |            |          |               |                                 |
| C1458                                | VCCCCZ1HH330JY | AB         |          | R             | Capacitor 33p 50V Ceramic       |
| C1459                                | VCCCCZ1HH270JY | AB         |          | R             | Capacitor 27p 50V Ceramic       |
| C1460                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic      |
| C1461                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C1462                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C1463                                | RC-KZA154WJZZY | AB         |          | R             | Capacitor 4.7 16V Ceramic       |
| C1464                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C1465                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C1466                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1467                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1469                                | VCKYTV1CB105KY | AC         |          | R             | Capacitor 1 16V Ceramic         |
| C1470                                | VCKYTV1CB105KY | AC         |          | R             | Capacitor 1 16V Ceramic         |
| C1471                                | VCCCCZ1HH101JY | AB         |          | R             | Capacitor 100p 50V Ceramic      |
| C1472                                | VCCCCZ1HH101JY | AB         |          | R             | Capacitor 100p 50V Ceramic      |
| C1473                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1474                                | VCERMZ1CN107MY | AD         |          | R             | Capacitor 100 16V Capacitor(AL) |
| C1475                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1476                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1478                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1503                                | VCKYCZ1HB221KY | AA         |          | R             | Capacitor 220p 50V Ceramic      |
| C1504                                | VCKYCZ1HB221KY | AA         |          | R             | Capacitor 220p 50V Ceramic      |
| C1506                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1508                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1511                                | VCKYTV1CB105KY | AC         |          | R             | Capacitor 1 16V Ceramic         |
| C1512                                | VCKYTV1CB105KY | AC         |          | R             | Capacitor 1 16V Ceramic         |
| C1513                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1514                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1515                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic      |
| C1516                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic      |
| C1517                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1518                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1519                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1520                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1536                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1537                                | VCERML1CN476MY | AC         |          | R             | Capacitor 47 16V Capacitor(AL)  |
| C1538                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1539                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1541                                | VCAAPE0JJ107MY | AE         |          | R             | Capacitor 100 6.3V Electrolytic |
| C1542                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1543                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1544                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1545                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1546                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1547                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1548                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1549                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1550                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1551                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1552                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1553                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1554                                | VCAAPE0JJ227MY | AE         |          | R             | Capacitor 220 6.3V Electrolytic |
| C1555                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1556                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1557                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1558                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1560                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1561                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1562                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1563                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1564                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1565                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1566                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1567                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1568                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1569                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1570                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1571                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1572                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1573                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1574                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1575                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1576                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1578                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1579                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1580                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1582                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1583                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1585                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1586                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1587                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1588                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1589                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1590                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1591                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1592                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |

| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                     |
|--------------------------------------|----------------|------------|----------|---------------|---------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                |            |          |               |                                 |
| C1593                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1594                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1595                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1596                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1597                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1598                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1599                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1600                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1601                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1602                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1603                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1604                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1605                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1606                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1607                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1608                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1609                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1610                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1611                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1612                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1613                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1614                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1615                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1616                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1617                                | VCCCCY1HH150JY | AA         |          | R             | Capacitor 15p 50V Ceramic       |
| C1618                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1619                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1620                                | VCCCCY1HH120JY | AA         |          | R             | Capacitor 12p 50V Ceramic       |
| C1621                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1622                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1623                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1624                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1625                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1626                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1627                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1628                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1629                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1630                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1631                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1632                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1633                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1634                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1635                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1636                                | VCAAPE0JJ107MY | AE         |          | R             | Capacitor 100 6.3V Electrolytic |
| C1637                                | VCAAPE0JJ227MY | AE         |          | R             | Capacitor 220 6.3V Electrolytic |
| C1642                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1644                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1645                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1646                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1647                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1648                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1649                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1650                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1651                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1652                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1653                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1654                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1655                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1656                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1701                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1702                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic      |
| C1703                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1704                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1705                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1707                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1708                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1709                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1710                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1711                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1712                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1713                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1714                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1715                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C1716                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1717                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1718                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1719                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1720                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1721                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1722                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1723                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1724                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1725                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic       |
| C1726                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C1727                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |

| NO.                                  | PARTS CODE      | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                 |
|--------------------------------------|-----------------|------------|----------|---------------|-----------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                 |            |          |               |                             |
| C1728                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C1729                                | VCKYGCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C1730                                | VCKYGCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C1731                                | VCKYGCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C1732                                | VCKYGCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C2001                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C2002                                | VCKYGCZ1HB152KY | AB         |          | R             | Capacitor 1500p 50V Ceramic |
| C2003                                | VCKYGCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C2008                                | VCKYGCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C2010                                | VCKYGCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C2012                                | VCKYGCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C2016                                | VCKYGCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C2019                                | VCKYGCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C2020                                | VCKYGCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C2023                                | VCKYGCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C2024                                | VCKYGCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C2025                                | VCKYGCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C2026                                | VCKYGCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C2027                                | VCCCCZ1HH101JY  | AB         |          | R             | Capacitor 100p 50V Ceramic  |
| C2028                                | VCCCCZ1HH101JY  | AB         |          | R             | Capacitor 100p 50V Ceramic  |
| C2029                                | VCCCCZ1HH101JY  | AB         |          | R             | Capacitor 100p 50V Ceramic  |
| C2202                                | VCCCCZ1HH120JY  | AB         |          | R             | Capacitor 12p 50V Ceramic   |
| C2203                                | VCCCCZ1HH120JY  | AB         |          | R             | Capacitor 12p 50V Ceramic   |
| C2204                                | VCCCCZ1HH3R0CY  | AA         |          | R             | Capacitor 3p 50V Ceramic    |
| C2205                                | VCCCCZ1HH3R0CY  | AA         |          | R             | Capacitor 3p 50V Ceramic    |
| C2206                                | VCCCCZ1HH270JY  | AB         |          | R             | Capacitor 27p 50V Ceramic   |
| C2207                                | VCCCCZ1HH270JY  | AB         |          | R             | Capacitor 27p 50V Ceramic   |
| C2208                                | VCCCCZ1HH120JY  | AB         |          | R             | Capacitor 12p 50V Ceramic   |
| C2209                                | VCCCCZ1HH3R0CY  | AA         |          | R             | Capacitor 3p 50V Ceramic    |
| C2210                                | VCCCCZ1HH270JY  | AB         |          | R             | Capacitor 27p 50V Ceramic   |
| C2231                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C2233                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C2234                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C2602                                | VCKYGCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C2606                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3301                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3302                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3303                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3304                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3305                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3306                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3307                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3308                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3309                                | VCKYGCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3310                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C3311                                | VCKYGCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3312                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3313                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3314                                | VCKYGCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3315                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3316                                | VCKYGCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3318                                | VCKYGCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3320                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C3321                                | VCKYGCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3322                                | VCKYGCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3324                                | VCKYGCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3327                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C3328                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C3329                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C3330                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3331                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3332                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3333                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3334                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3335                                | VCKYGCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3336                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3337                                | VCKYGCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3338                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3339                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C3340                                | VCKYGCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3341                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3342                                | VCKYGCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3343                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3344                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C3345                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3346                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3347                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3348                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C3349                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3350                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3351                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C3352                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3353                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3354                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3355                                | VCKYGCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |

| NO.                                  | PARTS CODE      | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                     |
|--------------------------------------|-----------------|------------|----------|---------------|---------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                 |            |          |               |                                 |
| C3356                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3357                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3358                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3359                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3360                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C3361                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3362                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3363                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3365                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3366                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3367                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3368                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3369                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3370                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C3371                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3372                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3373                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3374                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3375                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3376                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3377                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3378                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3379                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3380                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3381                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3382                                | VCKY CY1CB224KY | AB         |          | R             | Capacitor 0.22 16V Ceramic      |
| C3383                                | VCKY CY1CB224KY | AB         |          | R             | Capacitor 0.22 16V Ceramic      |
| C3384                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3385                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C3386                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3388                                | VCKY CY1CB224KY | AB         |          | R             | Capacitor 0.22 16V Ceramic      |
| C3389                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3390                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3391                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3392                                | VCKY CY1CB224KY | AB         |          | R             | Capacitor 0.22 16V Ceramic      |
| C3393                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3394                                | VCKY CY1CB224KY | AB         |          | R             | Capacitor 0.22 16V Ceramic      |
| C3395                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3396                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C3397                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3398                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C3399                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3401                                | VCKY CY1CB224KY | AB         |          | R             | Capacitor 0.22 16V Ceramic      |
| C3402                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3403                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C3404                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3405                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C3406                                | VCKY CZ1HB272KY | AA         |          | R             | Capacitor 2700p 50V Ceramic     |
| C3407                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3408                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C3409                                | VCCCCZ1HH120JY  | AB         |          | R             | Capacitor 12p 50V Ceramic       |
| C3410                                | VCKY CZ1HB272KY | AA         |          | R             | Capacitor 2700p 50V Ceramic     |
| C3411                                | VCCCCZ1HH120JY  | AB         |          | R             | Capacitor 12p 50V Ceramic       |
| C3412                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3413                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C3414                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3415                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C3416                                | VCKY CZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C3417                                | VCKY CZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C3418                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3419                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3420                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3421                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3422                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3423                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3424                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3425                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3426                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C3427                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3428                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3429                                | VCAAPE0JJ107MY  | AE         |          | R             | Capacitor 100 6.3V Electrolytic |
| C3430                                | VCAAPE0JJ107MY  | AE         |          | R             | Capacitor 100 6.3V Electrolytic |
| C3432                                | VCKY CZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic      |
| C3501                                | VCAAPE0JJ107MY  | AE         |          | R             | Capacitor 100 6.3V Electrolytic |
| C3502                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C3503                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3504                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3505                                | VCKY CZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C3506                                | VCKY CZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C3507                                | VCKY CZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C3508                                | VCKY CZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |
| C3513                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C3514                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3515                                | VCKY CZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C3516                                | VCKY CZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic     |

| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                 |
|--------------------------------------|----------------|------------|----------|---------------|-----------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                |            |          |               |                             |
| C3517                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3518                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic  |
| C3520                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C3521                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3522                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3523                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3524                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3525                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3526                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3531                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C3532                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3533                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3534                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3535                                | VCKYCZ1HB102KY | AB         |          | R             | Capacitor 1000p 50V Ceramic |
| C3536                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic  |
| C3537                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C3538                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C8101                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C8102                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8103                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8104                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8105                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8106                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8107                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8108                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8109                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8110                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8111                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8112                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8113                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8114                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8115                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8116                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8117                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8118                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C8119                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C8120                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8121                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8122                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8123                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C8124                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8125                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8126                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C8127                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C8128                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic   |
| C8129                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8130                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8131                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8132                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8133                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8134                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8135                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8136                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C8137                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8138                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8139                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8140                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8141                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8142                                | RC-KZA069WJZZY | AB         |          | R             | Capacitor 4.7 10V Ceramic   |
| C8143                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8144                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic    |
| C8145                                | RC-KZA069WJZZY | AB         |          | R             | Capacitor 4.7 10V Ceramic   |
| C8146                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic  |
| C8147                                | RC-KZA069WJZZY | AB         |          | R             | Capacitor 4.7 10V Ceramic   |
| C8148                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic  |
| C8152                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8153                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8154                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8301                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8302                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8303                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8304                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8305                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8306                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8307                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8308                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8309                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8310                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8311                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8312                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8313                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8314                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8315                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8316                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |
| C8317                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic   |

| NO.                                  | PARTS CODE      | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                      |
|--------------------------------------|-----------------|------------|----------|---------------|----------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                 |            |          |               |                                  |
| C8318                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8319                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8320                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8321                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8322                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8323                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8324                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8325                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8326                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8327                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8328                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8329                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic         |
| C8330                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic         |
| C8332                                | VCCERML0JN227MY | AC         |          | R             | Capacitor 220 6.3V Capacitor(AL) |
| C8333                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8334                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8335                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8336                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8337                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8338                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8339                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8340                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8341                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8342                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8343                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8344                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8345                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8346                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8347                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8348                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8349                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8350                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8351                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic         |
| C8352                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8353                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8354                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8355                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8356                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8357                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8358                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8359                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8401                                | RC-KZA030WJZZY  | AB         |          | R             | Capacitor 2.2 10V Ceramic        |
| C8402                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8403                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8404                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8405                                | VCKYCZ1EF104ZY  | AA         |          | R             | Capacitor 0.1 25V Ceramic        |
| C8406                                | VCKYCZ1HB102KY  | AB         |          | R             | Capacitor 1000p 50V Ceramic      |
| C8407                                | VCKYCZ1HB102KY  | AB         |          | R             | Capacitor 1000p 50V Ceramic      |
| C8408                                | VCKYCZ1HB102KY  | AB         |          | R             | Capacitor 1000p 50V Ceramic      |
| C8409                                | VCKYCZ1HB102KY  | AB         |          | R             | Capacitor 1000p 50V Ceramic      |
| C8452                                | VCKYCZ1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic        |
| C8453                                | VCKYCZ1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic        |
| C8460                                | VCKYCZ1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic        |
| C8601                                | VCKYCZ1EB103KY  | AA         |          | R             | Capacitor 0.01 25V Ceramic       |
| C8602                                | VCKYCY1AB105KY  | AB         |          | R             | Capacitor 1 10V Ceramic          |
| C8603                                | VCKYCY1AB105KY  | AB         |          | R             | Capacitor 1 10V Ceramic          |
| C8606                                | VCKYCZ1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic        |
| C8607                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic         |
| C8608                                | VCCCCZ1HH330JY  | AB         |          | R             | Capacitor 33p 50V Ceramic        |
| C8609                                | VCCCCZ1HH330JY  | AB         |          | R             | Capacitor 33p 50V Ceramic        |
| C8610                                | VCKYCZ1EB103KY  | AA         |          | R             | Capacitor 0.01 25V Ceramic       |
| C8611                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic         |
| C8612                                | VCKYCY1AB105KY  | AB         |          | R             | Capacitor 1 10V Ceramic          |
| C8613                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic         |
| C8614                                | VCKYCY1AB105KY  | AB         |          | R             | Capacitor 1 10V Ceramic          |
| C8615                                | VCCCCZ1HH390JY  | AB         |          | R             | Capacitor 39p 50V Ceramic        |
| C8616                                | VCKYCY1AB105KY  | AB         |          | R             | Capacitor 1 10V Ceramic          |
| C8617                                | VCKYCZ1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic        |
| C8618                                | VCKYCZ1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic        |
| C8619                                | VCKYCZ1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic        |
| C8620                                | VCCCCZ1HH560JY  | AB         |          | R             | Capacitor 56p 50V Ceramic        |
| C8621                                | VCCCCZ1HH560JY  | AB         |          | R             | Capacitor 56p 50V Ceramic        |
| C8622                                | VCKYCZ1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic        |
| C8623                                | VCKYCZ1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic        |
| C8624                                | VCKYCZ1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic        |
| C8625                                | VCKYCZ1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic        |
| C8626                                | VCKYCZ1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic        |
| C8627                                | VCKYCZ1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic        |
| C8628                                | VCKYCZ1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic        |
| C8629                                | VCCCCZ1HH220JY  | AB         |          | R             | Capacitor 22p 50V Ceramic        |
| C8630                                | VCCCCZ1HH220JY  | AB         |          | R             | Capacitor 22p 50V Ceramic        |
| C8631                                | VCKYCY1AB105KY  | AB         |          | R             | Capacitor 1 10V Ceramic          |
| C8632                                | VCKYCZ1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic        |
| C8633                                | VCKYCZ1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic        |
| C8634                                | VCCCCZ1HH390JY  | AB         |          | R             | Capacitor 39p 50V Ceramic        |



| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                   |
|--------------------------------------|----------------|------------|----------|---------------|-------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                |            |          |               |                               |
| C8635                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8636                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8637                                | VCCCCZ1HH100DY | AB         |          | R             | Capacitor 10p 50V Ceramic     |
| C8638                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8639                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8640                                | VCCCCZ1HH100DY | AB         |          | R             | Capacitor 10p 50V Ceramic     |
| C8641                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8642                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8643                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8644                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8645                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8646                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8647                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8648                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8649                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8650                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8651                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8652                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8653                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8654                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8655                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8656                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8657                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8658                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8659                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8660                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8661                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8662                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8663                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8664                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8665                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8666                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8667                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8668                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8669                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8670                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C8671                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic      |
| C8672                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic      |
| C8673                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic      |
| C8674                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic    |
| C8675                                | VCKYCY1AB105KY | AB         |          | R             | Capacitor 1 10V Ceramic       |
| C8676                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic    |
| C8701                                | VCKYCY1AB105KY | AB         |          | R             | Capacitor 1 10V Ceramic       |
| C8702                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic    |
| C8703                                | RC-KZA069WJZZY | AB         |          | R             | Capacitor 4.7 10V Ceramic     |
| C8704                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic     |
| C8705                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic     |
| C8706                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic     |
| C8707                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic     |
| C8708                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic     |
| C8709                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic     |
| C8710                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic     |
| C8711                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic     |
| C8803                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic     |
| C8804                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic     |
| C8805                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic     |
| C8806                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic      |
| C8807                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic      |
| C8808                                | VCKYCZ1AF224ZY | AA         |          | R             | Capacitor 0.22 10V Ceramic    |
| C9006                                | VCKYCZ1EF104ZY | AA         |          | R             | Capacitor 0.1 25V Ceramic     |
| C9101                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic    |
| C9102                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic    |
| C9103                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic    |
| C9104                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic    |
| C9105                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic    |
| C9106                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic    |
| C9107                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic    |
| C9108                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic    |
| C9601                                | VCKYCZ1EB682KY | AB         |          | R             | Capacitor 6800p 25V Ceramic   |
| C9602                                | VCKYCZ1AB104KY | AB         |          | R             | Capacitor 0.1 10V Ceramic     |
| C9603                                | VCKYCZ1HB222KY | AB         |          | R             | Capacitor 2200p 50V Ceramic   |
| C9604                                | VCKYCZ1HB221KY | AA         |          | R             | Capacitor 220p 50V Ceramic    |
| C9605                                | VCKYCZ1HB272KY | AA         |          | R             | Capacitor 2700p 50V Ceramic   |
| C9606                                | VCKYCY1EB104KY | AB         |          | R             | Capacitor 0.1 25V Ceramic     |
| C9607                                | VCCCCZ1HH101JY | AB         |          | R             | Capacitor 100p 50V Ceramic    |
| C9608                                | VCKYTV1CB105KY | AC         |          | R             | Capacitor 1 16V Ceramic       |
| C9609                                | VCAAPE1CJ396MY | AE         |          | R             | Capacitor 39 16V Electrolytic |
| C9610                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic      |
| C9611                                | VCAAPE1CJ396MY | AE         |          | R             | Capacitor 39 16V Electrolytic |
| C9612                                | VCKYCZ1EB103KY | AA         |          | R             | Capacitor 0.01 25V Ceramic    |
| C9613                                | VCKYCZ1HB272KY | AA         |          | R             | Capacitor 2700p 50V Ceramic   |
| C9614                                | VCKYCZ1HB221KY | AA         |          | R             | Capacitor 220p 50V Ceramic    |
| C9615                                | VCKYTV1CB105KY | AC         |          | R             | Capacitor 1 16V Ceramic       |
| C9616                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic      |
| C9617                                | RC-KZA510WJPZY | AB         |          | R             | Capacitor 10 16V Ceramic      |

| NO.                                  | PARTS CODE      | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                     |
|--------------------------------------|-----------------|------------|----------|---------------|---------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                 |            |          |               |                                 |
| C9618                                | VCAAPE0JJ107MY  | AE         |          | R             | Capacitor 100 6.3V Electrolytic |
| C9619                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C9620                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C9621                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C9622                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C9623                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C9626                                | RC-KZA069WJZZY  | AB         |          | R             | Capacitor 4.7 10V Ceramic       |
| C9627                                | VCKYCY1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C9628                                | VCKYCY1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C9629                                | VCKYCY1EB682KY  | AB         |          | R             | Capacitor 6800p 25V Ceramic     |
| C9630                                | VCKYCY1EB682KY  | AB         |          | R             | Capacitor 6800p 25V Ceramic     |
| C9631                                | VCKYCY1HB221KY  | AA         |          | R             | Capacitor 220p 50V Ceramic      |
| C9632                                | VCKYCY1HB272KY  | AA         |          | R             | Capacitor 2700p 50V Ceramic     |
| C9633                                | VCCCCZ1HH101JY  | AB         |          | R             | Capacitor 100p 50V Ceramic      |
| C9634                                | VCKYCY1EB104KY  | AB         |          | R             | Capacitor 0.1 25V Ceramic       |
| C9635                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C9637                                | VCKYTV1CB105KY  | AC         |          | R             | Capacitor 1 16V Ceramic         |
| C9638                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C9639                                | VCKYCY1AB104KY  | AB         |          | R             | Capacitor 0.1 10V Ceramic       |
| C9640                                | VCKYCY1EB822KY  | AA         |          | R             | Capacitor 8200p 25V Ceramic     |
| C9641                                | VCKYCY1EB682KY  | AB         |          | R             | Capacitor 6800p 25V Ceramic     |
| C9642                                | VCKYCY1HB221KY  | AA         |          | R             | Capacitor 220p 50V Ceramic      |
| C9643                                | VCKYCY1HB272KY  | AA         |          | R             | Capacitor 2700p 50V Ceramic     |
| C9644                                | VCCCCZ1HH101JY  | AB         |          | R             | Capacitor 100p 50V Ceramic      |
| C9645                                | VCKYCY1EB104KY  | AB         |          | R             | Capacitor 0.1 25V Ceramic       |
| C9646                                | VCKYTV1CB105KY  | AC         |          | R             | Capacitor 1 16V Ceramic         |
| C9647                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C9648                                | VCAAPE1CJ396MY  | AE         |          | R             | Capacitor 39 16V Electrolytic   |
| C9649                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C9650                                | VCKYCY1HB222KY  | AB         |          | R             | Capacitor 2200p 50V Ceramic     |
| C9651                                | VCKYCY1HB272KY  | AA         |          | R             | Capacitor 2700p 50V Ceramic     |
| C9652                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C9653                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C9654                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C9655                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C9656                                | VCKYCY1EB682KY  | AB         |          | R             | Capacitor 6800p 25V Ceramic     |
| C9706                                | VCKYCY1EB103KY  | AA         |          | R             | Capacitor 0.01 25V Ceramic      |
| C9707                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C9708                                | RC-KZA154WJZZY  | AB         |          | R             | Capacitor 4.7 16V Ceramic       |
| C9710                                | VCKYCY1AB105KY  | AB         |          | R             | Capacitor 1 10V Ceramic         |
| C9711                                | VCKYCY1AB105KY  | AB         |          | R             | Capacitor 1 10V Ceramic         |
| C9712                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| C9713                                | RC-KZA069WJZZY  | AB         |          | R             | Capacitor 4.7 10V Ceramic       |
| C9714                                | RC-KZA114WJZZY  | AB         |          | R             | Capacitor 1 25V Ceramic         |
| C9717                                | RC-KZA510WJPZY  | AB         |          | R             | Capacitor 10 16V Ceramic        |
| D1302                                | VHDKDS121E+-1Y  | AB         |          | R             | Diode KDS121E-RTK               |
| D1304                                | VHDKDS121E+-1Y  | AB         |          | R             | Diode KDS121E-RTK               |
| D1305                                | VHDKDS121E+-1Y  | AB         |          | R             | Diode KDS121E-RTK               |
| D1306                                | VHDKDS121E+-1Y  | AB         |          | R             | Diode KDS121E-RTK               |
| D1307                                | VHDKDS121E+-1Y  | AB         |          | R             | Diode KDS121E-RTK               |
| D1308                                | VHDKDS121E+-1Y  | AB         |          | R             | Diode KDS121E-RTK               |
| D1312                                | RH-EXA485WJQZY  | AB         |          | R             | Diode KDZ9.1V-Y-RTK/P           |
| D1313                                | VHPGPFM513T-1   | AH         |          | R             | Photo Diode OPTICAL OUTPUT      |
| D1502                                | VHDMA152WK/-1Y  | AB         |          | R             | Diode MA152WK-(TX)              |
| D1503                                | VHDMA152WK/-1Y  | AB         |          | R             | Diode MA152WK-(TX)              |
| D1505                                | VHDMA111+++-1Y  | AB         |          | R             | Diode MA2J11100L                |
| D1506                                | VHDMA111+++-1Y  | AB         |          | R             | Diode MA2J11100L                |
| D1509                                | VHD1SS226//--1Y | AC         |          | R             | Diode 1SS226(T5L,F,T)           |
| D1510                                | VHD1SS226//--1Y | AC         |          | R             | Diode 1SS226(T5L,F,T)           |
| D1511                                | VHDMA111+++-1Y  | AB         |          | R             | Diode MA2J11100L                |
| D1513                                | VHD1SS226//--1Y | AC         |          | R             | Diode 1SS226(T5L,F,T)           |
| D1514                                | VHDMA111+++-1Y  | AB         |          | R             | Diode MA2J11100L                |
| D1515                                | VHD1SS226//--1Y | AC         |          | R             | Diode 1SS226(T5L,F,T)           |
| D1523                                | VHDMA111+++-1Y  | AB         |          | R             | Diode MA2J11100L                |
| D1701                                | VHDMA152WK/-1Y  | AB         |          | R             | Diode MA152WK-(TX)              |
| D1702                                | VHDMA111+++-1Y  | AB         |          | R             | Diode MA2J11100L                |
| D1703                                | VHD1SS226//--1Y | AC         |          | R             | Diode 1SS226(T5L,F,T)           |
| D1705                                | VHD1SS226//--1Y | AC         |          | R             | Diode 1SS226(T5L,F,T)           |
| D1706                                | VHDMA111+++-1Y  | AB         |          | R             | Diode MA2J11100L                |
| D2003                                | RH-PXA018WJZZY  | AC         |          | R             | Diode GM1HD55200A               |
| D8101                                | RH-PXA018WJZZY  | AC         |          | R             | Diode GM1HD55200A               |
| D8102                                | RH-PXA018WJZZY  | AC         |          | R             | Diode GM1HD55200A               |
| D9006                                | RH-EX1234CEZZY  | AE         |          | R             | Zener Diode HZU3.6B2TRF, 3.6V   |
| D9007                                | RH-EX1234CEZZY  | AE         |          | R             | Zener Diode HZU3.6B2TRF, 3.6V   |
| D9008                                | RH-EX1234CEZZY  | AE         |          | R             | Zener Diode HZU3.6B2TRF, 3.6V   |
| D9601                                | VHDMA111+++-1Y  | AB         |          | R             | Diode MA2J11100L                |
| D9602                                | RH-EX1226CEZZY  | AB         |          | R             | Zener Diode HZU2.4BTRF-E, 2.4V  |
| D9603                                | VHDD1FH3+++-1Y  | AD         |          | R             | Diode D1FH3                     |
| D9604                                | VHDDG1M3+++-1Y  | AC         |          | R             | Diode DG1M3-5063R               |
| D9605                                | RH-EX0256TAZZY  | AB         |          | R             | Zener Diode EX0256TA            |
| D9606                                | VHDMA111+++-1Y  | AB         |          | R             | Diode MA2J11100L                |
| D9607                                | VHDMA111+++-1Y  | AB         |          | R             | Diode MA2J11100L                |
| D9608                                | RH-EX1226CEZZY  | AB         |          | R             | Zener Diode HZU2.4BTRF-E, 2.4V  |
| D9609                                | VHDMA111+++-1Y  | AB         |          | R             | Diode MA2J11100L                |
| D9610                                | RH-EX1226CEZZY  | AB         |          | R             | Zener Diode HZU2.4BTRF-E, 2.4V  |

| NO.                                  | PARTS CODE        | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION           |
|--------------------------------------|-------------------|------------|----------|---------------|-----------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                   |            |          |               |                       |
| D9611                                | VH DMA111+++ -1Y  | AB         |          | R             | Diode MA2J11100L      |
| D9612                                | VH DMA111+++ -1Y  | AB         |          | R             | Diode MA2J11100L      |
| D9701                                | VH DMA111+++ -1Y  | AB         |          | R             | Diode MA2J11100L      |
| D9702                                | VH DMA111+++ -1Y  | AB         |          | R             | Diode MA2J11100L      |
| FB1112                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB1113                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB1114                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB1115                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB1301                               | RBLN-0236TAZZY    | AA         |          | R             | Balun                 |
| FB1401                               | RBLN-A330WJQZY    | AA         |          | R             | Balun                 |
| FB1503                               | RBLN-A361WJZZY    | AA         |          | R             | Balun                 |
| FB1504                               | RBLN-A361WJZZY    | AA         |          | R             | Balun                 |
| FB1510                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB1511                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB1513                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB1514                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB1515                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB1516                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB1517                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB1518                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB1520                               | RBLN-A324WJZZY    | AA         |          | R             | Balun                 |
| FB1521                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB1522                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB1701                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB1702                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB2001                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB2003                               | RBLN-A005WJZZY    | AA         |          | R             | Balun                 |
| FB2004                               | RBLN-A005WJZZY    | AA         |          | R             | Balun                 |
| FB2005                               | RBLN-A005WJZZY    | AA         |          | R             | Balun                 |
| FB2602                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB2603                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB2604                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB2605                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB2606                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB2607                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB2608                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB3301                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB3302                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB3303                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB3304                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB3305                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB3306                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB3307                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB3308                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB3501                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB8401                               | RBLN-0210TAZZY    | AB         |          | R             | Balun                 |
| FB8601                               | RBLN-A192WJZZY    | AA         |          | R             | Balun                 |
| FB8602                               | RBLN-A192WJZZY    | AA         |          | R             | Balun                 |
| FB8604                               | RBLN-A192WJZZY    | AA         |          | R             | Balun                 |
| FB8605                               | RBLN-A226WJZZY    | AA         |          | R             | Balun                 |
| FB8606                               | RBLN-A226WJZZY    | AA         |          | R             | Balun                 |
| FB8607                               | RBLN-A226WJZZY    | AA         |          | R             | Balun                 |
| FB8608                               | RBLN-A192WJZZY    | AA         |          | R             | Balun                 |
| FB8701                               | RBLN-A192WJZZY    | AA         |          | R             | Balun                 |
| FB8801                               | RBLN-0237TAZZY    | AB         |          | R             | Balun                 |
| FB9701                               | RBLN-0236TAZZY    | AA         |          | R             | Balun                 |
| FB9702                               | RBLN-A192WJZZY    | AA         |          | R             | Balun                 |
| FB9703                               | RBLN-A192WJZZY    | AA         |          | R             | Balun                 |
| FB9705                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB9706                               | RBLN-A192WJZZY    | AA         |          | R             | Balun                 |
| FB9707                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB9708                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB9709                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB9710                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FB9711                               | RBLN-A206WJZZY    | AA         |          | R             | Balun                 |
| FL8401                               | RF i LNA044WJZZY  | AC         |          | R             | Filter                |
| IC1101                               | VH i PQ1M505M-1Y  | AD         |          | R             | IC PQ1M505M2SPQ       |
| IC1102                               | VH i PQ1M505M-1Y  | AD         |          | R             | IC PQ1M505M2SPQ       |
| IC1103                               | VH i BA7655AF-1Y  | AG         |          | R             | IC BA7655AF-T1        |
| IC1104                               | VH i M62332FP-1Y  | AL         |          | R             | IC M62332FPDF5J       |
| IC1301                               | VH i M62320FP-1Y  | AH         |          | R             | IC M62320FPDF5J       |
| IC1303                               | VH i T7SET08U1EY  | AC         |          | R             | IC TC7SET08FU(5L,JF,T |
| IC1305                               | VH i T7SET08U1EY  | AC         |          | R             | IC TC7SET08FU(5L,JF,T |
| IC1401                               | VH i AN5832SA-1Y  | AQ         |          | R             | IC AN5832SA-E1V       |
| IC1403                               | RH- i XB991WJQZY  | AN         |          | R             | IC 24LC256-I/SN-G     |
| IC1404                               | VH i AK4683EQ-1Q  | AR         |          | R             | IC AK4683EQ           |
| IC1407                               | VH i TAS3108D-1Y  | AS         |          | R             | IC TAS3108DCPR        |
| IC1408                               | VH i NJM4565V-1Y  | AF         |          | R             | IC NJM4565V-TE1       |
| IC1501                               | RH- i XC037WJQZS  |            |          | J             | IC EDID HDMI          |
| IC1502                               | RH- i XC038WJQZS  |            |          | J             | IC EDID HDMI          |
| IC1506                               | VH i PQ018ENA-1Y  | AF         |          | R             | IC PQ018ENA1ZPH       |
| IC1507                               | VH i TMD5341A-1Y  | AR         |          | R             | IC TMD5341APFCR       |
| IC1510                               | VH i S i 9025+-1Q | AX         |          | R             | IC SII9025CTU         |
| IC1701                               | RH- i XC036WJQZS  |            |          | J             | IC EDID HDMI          |
| IC1702                               | VH i TMD5341A-1Y  | AR         |          | R             | IC TMD5341APFCR       |

| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION            |
|--------------------------------------|----------------|------------|----------|---------------|------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                |            |          |               |                        |
| IC2001                               | VHiBD5224G+-1Y | AD         |          | R             | IC BD5224G-TR          |
| IC2002                               | RH-iXB986WJN3Q |            |          | J             | IC MONITOR MICON       |
| IC2003                               | VHiTC7W66U/-1Y | AE         |          | R             | IC TC7W66FU(TE12L,F)   |
| IC2004                               | VHiBR24L08F-1Y | AE         |          | R             | IC BR24L08F-WE2        |
| IC2005                               | VHiM62332FP-1Y | AL         |          | R             | IC M62332FPCF5J        |
| IC2006                               | VHiTCVHC32T-1Y | AE         |          | R             | IC TC7VHC32FT(EL)      |
| IC2007                               | VHiAHC1G08W-1Y | AD         |          | R             | IC 74AHC1G08GW/G,125   |
| IC2008                               | VHi7WH126FU-1Y | AE         |          | R             | IC TC7WH126FU(TE12L,F) |
| IC2601                               | VHiTC7W66U/-1Y | AE         |          | R             | IC TC7W66FU(TE12L,F)   |
| IC3301                               | RH-iXB925WJQZQ | BN         |          | R             | IC SVP-LX62(7162S      |
| IC3302                               | VHiPQ1X251M-1Y | AD         |          | R             | IC PQ1X251M2ZPH        |
| IC3501                               | RH-iXB822WJQZQ | AY         |          | R             | IC EM6A9320BI-5MG      |
| IC3502                               | RH-iXB822WJQZQ | AY         |          | R             | IC EM6A9320BI-5MG      |
| IC8101                               | RH-iXB281WJZZQ | BQ         |          | R             | IC TC81240ATBG(O,5)    |
| IC8102                               | VHiPQ1X251M-1Y | AD         |          | R             | IC PQ1X251M2ZPH        |
| IC8301                               | RH-iXB765WJQZQ | AW         |          | R             | IC K4H561638H-UCB3     |
| IC8302                               | RH-iXB765WJQZQ | AW         |          | R             | IC K4H561638H-UCB3     |
| IC8303                               | RH-iXB765WJQZQ | AW         |          | R             | IC K4H561638H-UCB3     |
| IC8304                               | RH-iXB765WJQZQ | AW         |          | R             | IC K4H561638H-UCB3     |
| IC8305                               | RH-iXA361WJZZY | AM         |          | R             | IC LP2995MX/NOPB       |
| IC8401                               | RH-iXB268WJZZY | AK         |          | R             | IC ICS422M-01LFT       |
| IC8402                               | RH-iXB269WJZZY | AK         |          | R             | IC ICS422M-02LFT       |
| IC8403                               | VHiLV04AT+-1Y  | AD         |          | R             | IC SN74LV04APWR        |
| IC8451                               | RH-iXC132WJQZQ |            |          | J             | IC Program IC          |
| IC8454                               | VHiBR24L64F-1Y | AK         |          | R             | IC BR24L64F-WE2        |
| IC8601                               | RH-iXB684WJQZQ | BE         |          | R             | IC 218T312ZGA21G       |
| IC8602                               | VHiR1173S10-1Y | AF         |          | R             | IC R1173S101B-E2-F     |
| IC8603                               | VHiPQ1X181M-1Y | AD         |          | R             | IC PQ1X181M2ZPH        |
| IC8701                               | VHiPQ1X331M-1Y | AD         |          | R             | IC PQ1X331M2ZPH        |
| IC8702                               | VHiTC6384AF1EQ | AW         |          | R             | IC TC6384AFG-0001(JQZ) |
| IC8801                               | VHiAK4363VF-1Y | AQ         |          | R             | IC AK4363VF            |
| IC9101                               | RH-iXB997WJQZQ |            |          | R             | EPM240T100C5N          |
| IC9602                               | VHiPQ1CX12H-1Y | AK         |          | R             | IC PQ1CX12H2ZPQ        |
| IC9603                               | VHiTPS40055-1Y | AN         |          | R             | IC TPS40055PWPR        |
| IC9605                               | VHiPQ1X181M-1Y | AD         |          | R             | IC PQ1X181M2ZPH        |
| IC9606                               | VHiTPS40055-1Y | AN         |          | R             | IC TPS40055PWPR        |
| IC9607                               | VHiTPS40055-1Y | AN         |          | R             | IC TPS40055PWPR        |
| IC9701                               | VHiPQ090DNA-1Y | AE         |          | R             | IC PQ090DNA1ZPH        |
| IC9703                               | VHiBH33FB1G-1Y | AD         |          | R             | IC BH33FB1WG-TR        |
| IC9705                               | VHiPQ050DNA-1Y | AE         |          | R             | IC PQ050DNA1ZPH        |
| J1501                                | QJAKFA042WJZZ  | AD         |          | R             | Jack                   |
| L1301                                | VPCEM100MR70NY | AC         |          | R             | Coil Peaking 10μH      |
| L1401                                | VPCBM470K2R4NY | AC         |          | R             | Coil Peaking 47μH      |
| L1506                                | RCiLFA116WJZZY | AE         |          | R             | Coil                   |
| L1507                                | RCiLFA116WJZZY | AE         |          | R             | Coil                   |
| L1508                                | RCiLFA116WJZZY | AE         |          | R             | Coil                   |
| L1509                                | RCiLFA116WJZZY | AE         |          | R             | Coil                   |
| L1510                                | RCiLFA116WJZZY | AE         |          | R             | Coil                   |
| L1511                                | RCiLFA116WJZZY | AE         |          | R             | Coil                   |
| L1512                                | RCiLFA116WJZZY | AE         |          | R             | Coil                   |
| L1513                                | RCiLFA116WJZZY | AE         |          | R             | Coil                   |
| L1514                                | VPCBM4R7MR25NY | AC         |          | R             | Coil Peaking 4.7μH     |
| L1530                                | VPCBM4R7MR25NY | AC         |          | R             | Coil Peaking 4.7μH     |
| L1701                                | RCiLFA116WJZZY | AE         |          | R             | Coil                   |
| L1702                                | RCiLFA116WJZZY | AE         |          | R             | Coil                   |
| L1703                                | RCiLFA116WJZZY | AE         |          | R             | Coil                   |
| L1704                                | RCiLFA116WJZZY | AE         |          | R             | Coil                   |
| L2201                                | VPD9M220J2R7NY | AC         |          | R             | Coil Peaking 22μH      |
| L2202                                | VPD9M220J2R7NY | AC         |          | R             | Coil Peaking 22μH      |
| L2203                                | VPD9M220J2R7NY | AC         |          | R             | Coil Peaking 22μH      |
| L2601                                | RCiLFA154WJZZY | AC         |          | R             | Coil                   |
| L2602                                | RCiLFA154WJZZY | AC         |          | R             | Coil                   |
| L2603                                | RCiLFA154WJZZY | AC         |          | R             | Coil                   |
| L2604                                | RCiLFA154WJZZY | AC         |          | R             | Coil                   |
| L2605                                | RCiLFA154WJZZY | AC         |          | R             | Coil                   |
| L2606                                | RCiLFA154WJZZY | AC         |          | R             | Coil                   |
| L2607                                | RCiLFA154WJZZY | AC         |          | R             | Coil                   |
| L2608                                | RCiLFA154WJZZY | AC         |          | R             | Coil                   |
| L2609                                | RCiLFA154WJZZY | AC         |          | R             | Coil                   |
| L2610                                | RCiLFA154WJZZY | AC         |          | R             | Coil                   |
| L3301                                | VPCEM2R2MR23NY | AC         |          | R             | Coil Peaking 2.2μH     |
| L3302                                | VPCEM2R2MR23NY | AC         |          | R             | Coil Peaking 2.2μH     |
| L3303                                | VPCEM2R2MR23NY | AC         |          | R             | Coil Peaking 2.2μH     |
| L3304                                | VPCEM2R2MR23NY | AC         |          | R             | Coil Peaking 2.2μH     |
| L3305                                | VPCEM2R2MR23NY | AC         |          | R             | Coil Peaking 2.2μH     |
| L3306                                | VPCEM2R2MR23NY | AC         |          | R             | Coil Peaking 2.2μH     |
| L3307                                | VPCEM2R2MR23NY | AC         |          | R             | Coil Peaking 2.2μH     |
| L8601                                | VPMKMR39JR57VY | AB         |          | R             | Coil Peaking 0.39μH    |
| L8602                                | VPMKMR39JR57VY | AB         |          | R             | Coil Peaking 0.39μH    |
| L8603                                | VPMKMR33JR50VY | AB         |          | R             | Coil Peaking 0.33μH    |
| L8604                                | VPMKMR68JR84VY | AB         |          | R             | Coil Peaking 0.68μH    |
| L8605                                | VPMKMR68JR84VY | AB         |          | R             | Coil Peaking 0.68μH    |
| L8606                                | VPMKMR22JR37VY | AB         |          | R             | Coil Peaking 0.22μH    |
| L8607                                | VPMKMR22JR37VY | AB         |          | R             | Coil Peaking 0.22μH    |
| L8608                                | VPMKMR33JR50VY | AB         |          | R             | Coil Peaking 0.33μH    |

| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                     |
|--------------------------------------|----------------|------------|----------|---------------|---------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                |            |          |               |                                 |
| L9601                                | RCiLPA086WJZZY | AE         |          | R             | Coil                            |
| L9602                                | RCiLPA084WJZZY | AE         |          | R             | Coil                            |
| L9603                                | RCiLCA029WJZZY | AD         |          | R             | Coil                            |
| L9604                                | RCiLPA084WJZZY | AE         |          | R             | Coil                            |
| LUG1101                              | QLUGHA006WJZZY | AC         |          | R             | Lug                             |
| LUG1102                              | QLUGHA006WJZZY | AC         |          | R             | Lug                             |
| LUG1104                              | QLUGHA006WJZZY | AC         |          | R             | Lug                             |
| LUG1105                              | QLUGHA006WJZZY | AC         |          | R             | Lug                             |
| LUG1106                              | QLUGHA006WJZZY | AC         |          | R             | Lug                             |
| LUG1107                              | QLUGHA009WJZZY | AC         |          | R             | Lug                             |
| LUG1108                              | QLUGHA009WJZZY | AC         |          | R             | Lug                             |
| P1401                                | QPLGN0055CEZZY | AD         |          | R             | Plug 5pin                       |
| P2001                                | QPLGN0060CEZZY | AE         |          | R             | Plug 10pin                      |
| P2002                                | QPLGNA173WJZZY | AD         |          | R             | Plug 4pin (KM)                  |
| P2003                                | QPLGNA412WJZZY | AG         |          | R             | Plug 20pin                      |
| P2601                                | QCNCWA663WJQZY |            |          | R             | Connector 41pin (LV)            |
| P2602                                | QPLGNA412WJZZY | AG         |          | R             | Plug 20pin                      |
| P2603                                | QPLGNA173WJZZY | AD         |          | R             | Plug 4pin (LB)                  |
| P9005                                | QPLGNA160WJZZY | AD         |          | R             | Plug 5pin                       |
| P9101                                | QPLGN0060CEZZY | AE         |          | R             | Plug 10pin                      |
| P9301                                | QCNCWA562WJQZY | AF         |          | R             | Connector 60pin (to PC-CARD)    |
| P9701                                | QPLGNA181WJZZY | AF         |          | R             | Plug 12pin (PH to POWER)        |
| P9702                                | QPLGNA175WJZZY | AE         |          | R             | Plug 6pin (PD to POWER)         |
| Q1102                                | VS2SC3928AR-1Y | AB         |          | R             | Transistor 2SC3928A-T112-1R     |
| Q1103                                | VS2SC3928AR-1Y | AB         |          | R             | Transistor 2SC3928A-T112-1R     |
| Q1301                                | VSKRC404E+-1Y  | AB         |          | R             | Transistor VSKRC404E            |
| Q1303                                | VSKRC404E+-1Y  | AB         |          | R             | Transistor VSKRC404E            |
| Q1304                                | VSRT1N141U/-1Y | AB         |          | R             | Transistor RT1N141U-T111-1      |
| Q1305                                | VSKTC3875SG-1Y | AB         |          | R             | Transistor KTC3875SG            |
| Q1306                                | VS2SA1530AR-1Y | AB         |          | R             | Transistor 2SA1530A-T112-1R     |
| Q1307                                | VSKRC231S+-1Y  | AB         |          | R             | Transistor KRC231S-RTK/P        |
| Q1308                                | VSKRC231S+-1Y  | AB         |          | R             | Transistor KRC231S-RTK/P        |
| Q1314                                | VSKRC404E+-1Y  | AB         |          | R             | Transistor VSKRC404E            |
| Q1503                                | VSUM6K1NTN+-1Y | AC         |          | R             | Transistor UM6K1N TN            |
| Q1504                                | VSUM6K1NTN+-1Y | AC         |          | R             | Transistor UM6K1N TN            |
| Q1505                                | VSKRC404E+-1Y  | AB         |          | R             | Transistor VSKRC404E            |
| Q1506                                | VSKRC404E+-1Y  | AB         |          | R             | Transistor VSKRC404E            |
| Q1507                                | VSKRC404E+-1Y  | AB         |          | R             | Transistor VSKRC404E            |
| Q1508                                | VSKRC404E+-1Y  | AB         |          | R             | Transistor VSKRC404E            |
| Q1514                                | VSIMD2A////-1Y | AC         |          | R             | Transistor IMD2AT108            |
| Q1515                                | VSIMD2A////-1Y | AC         |          | R             | Transistor IMD2AT108            |
| Q1522                                | VSRT1N141U/-1Y | AB         |          | R             | Transistor RT1N141U-T111-1      |
| Q1523                                | VSKTA1535T+-1Y | AC         |          | R             | Transistor KTA1535T-RTK/P       |
| Q1702                                | VSUM6K1NTN+-1Y | AC         |          | R             | Transistor UM6K1N TN            |
| Q1704                                | VSKRC404E+-1Y  | AB         |          | R             | Transistor VSKRC404E            |
| Q1706                                | VSKRC404E+-1Y  | AB         |          | R             | Transistor VSKRC404E            |
| Q1707                                | VSIMD2A////-1Y | AC         |          | R             | Transistor IMD2AT108            |
| Q1710                                | VSRT1N141U/-1Y | AB         |          | R             | Transistor RT1N141U-T111-1      |
| Q1711                                | VSKTA1535T+-1Y | AC         |          | R             | Transistor KTA1535T-RTK/P       |
| Q2001                                | VSKRC404E+-1Y  | AB         |          | R             | Transistor VSKRC404E            |
| Q2002                                | VSRT1P141U/-1Y | AB         |          | R             | Transistor RT1P141U-T111-1      |
| Q2003                                | VSRT1N141U/-1Y | AB         |          | R             | Transistor RT1N141U-T111-1      |
| Q2006                                | VSRT1N141U/-1Y | AB         |          | R             | Transistor RT1N141U-T111-1      |
| Q2007                                | VSRT1N141U/-1Y | AB         |          | R             | Transistor RT1N141U-T111-1      |
| Q2201                                | VS2SC3928AR-1Y | AB         |          | R             | Transistor 2SC3928A-T112-1R     |
| Q2202                                | VS2SC2735/-1Y  | AB         |          | R             | Transistor 2SC2735JC21TL        |
| Q2203                                | VS2SC2735/-1Y  | AB         |          | R             | Transistor 2SC2735JC21TL        |
| Q2204                                | VS2SC3928AR-1Y | AB         |          | R             | Transistor 2SC3928A-T112-1R     |
| Q2205                                | VS2SC3928AR-1Y | AB         |          | R             | Transistor 2SC3928A-T112-1R     |
| Q2206                                | VS2SC2735/-1Y  | AB         |          | R             | Transistor 2SC2735JC21TL        |
| Q2207                                | VS2SA1530AR-1Y | AB         |          | R             | Transistor 2SA1530A-T112-1R     |
| Q2208                                | VS2SA1530AR-1Y | AB         |          | R             | Transistor 2SA1530A-T112-1R     |
| Q2209                                | VS2SA1530AR-1Y | AB         |          | R             | Transistor 2SA1530A-T112-1R     |
| Q8601                                | VSUM6K1NTN+-1Y | AC         |          | R             | Transistor UM6K1N TN            |
| Q9003                                | VSUM6K1NTN+-1Y | AC         |          | R             | Transistor UM6K1N TN            |
| Q9601                                | VSSP8K2++++-1Y | AE         |          | R             | Transistor SP8K2TB              |
| Q9602                                | VSSP8K4++++-1Y | AF         |          | R             | Transistor SP8K4TB              |
| Q9603                                | VSKRC404E+-1Y  | AB         |          | R             | Transistor VSKRC404E            |
| Q9604                                | VSKRC404E+-1Y  | AB         |          | R             | Transistor VSKRC404E            |
| Q9605                                | VSKRC404E+-1Y  | AB         |          | R             | Transistor VSKRC404E            |
| Q9606                                | VSKRC404E+-1Y  | AB         |          | R             | Transistor VSKRC404E            |
| Q9607                                | VSKRC404E+-1Y  | AB         |          | R             | Transistor VSKRC404E            |
| Q9608                                | VSSP8K2++++-1Y | AE         |          | R             | Transistor SP8K2TB              |
| Q9609                                | VS2SC3928AR-1Y | AB         |          | R             | Transistor 2SC3928A-T112-1R     |
| Q9701                                | VSRT1N141U/-1Y | AB         |          | R             | Transistor RT1N141U-T111-1      |
| Q9702                                | VSRT1P141U/-1Y | AB         |          | R             | Transistor RT1P141U-T111-1      |
| R1101                                | VRS-CZ1JF822FY | AA         |          | R             | Resistor 8.2k 1/16W Metal Oxide |
| R1102                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1105                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide   |
| R1106                                | VRS-CZ1JF331JY | AA         |          | R             | Resistor 330 1/16W Metal Oxide  |
| R1107                                | VRS-CZ1JF332FY | AA         |          | R             | Resistor 3.3k 1/16W Metal Oxide |
| R1108                                | VRS-CZ1JF822FY | AA         |          | R             | Resistor 8.2k 1/16W Metal Oxide |
| R1110                                | VRS-CZ1JF683JY | AA         |          | R             | Resistor 68k 1/16W Metal Oxide  |
| R1111                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide   |
| R1114                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |

| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                     |
|--------------------------------------|----------------|------------|----------|---------------|---------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                |            |          |               |                                 |
| R1118                                | VRS-TV1JD000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1119                                | VRS-TV1JD000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1120                                | VRS-TV1JD000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1121                                | VRS-TV1JD000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1122                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1125                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1127                                | VRS-CZ1JF222FY | AA         |          | R             | Resistor 2.2k 1/16W Metal Oxide |
| R1129                                | VRS-CZ1JF123FY | AA         |          | R             | Resistor 12k 1/16W Metal Oxide  |
| R1130                                | VRS-CZ1JF392FY | AA         |          | R             | Resistor 3.9k 1/16W Metal Oxide |
| R1131                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1132                                | VRS-CZ1JF272FY | AA         |          | R             | Resistor 2.7k 1/16W Metal Oxide |
| R1133                                | VRS-CZ1JF182FY | AA         |          | R             | Resistor 1.8k 1/16W Metal Oxide |
| R1134                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R1135                                | VRS-CZ1JF332FY | AA         |          | R             | Resistor 3.3k 1/16W Metal Oxide |
| R1136                                | VRS-CJ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide   |
| R1139                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R1165                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1169                                | VRS-TV1JD000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1170                                | VRS-TV1JD000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1171                                | VRS-TV1JD000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1172                                | VRS-TV1JD000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1173                                | VRS-TV1JD000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1174                                | VRS-TV1JD000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1301                                | VRS-CJ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide   |
| R1302                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R1303                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1304                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1305                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R1306                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1307                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1308                                | VRS-CZ1JF222FY | AA         |          | R             | Resistor 2.2k 1/16W Metal Oxide |
| R1309                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R1310                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1314                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1315                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1317                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1318                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1323                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1324                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1325                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R1327                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R1330                                | VRS-CZ1JF562FY | AA         |          | R             | Resistor 5.6k 1/16W Metal Oxide |
| R1332                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1333                                | VRS-CZ1JF562FY | AA         |          | R             | Resistor 5.6k 1/16W Metal Oxide |
| R1334                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R1336                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R1337                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1338                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1342                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1343                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide   |
| R1344                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R1346                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R1347                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1350                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1351                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1401                                | VRS-CZ1JF184JY | AA         |          | R             | Resistor 180k 1/16W Metal Oxide |
| R1402                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1403                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1404                                | VRS-CJ1JF101JY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1405                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1406                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1407                                | VRS-CZ1JF332FY | AA         |          | R             | Resistor 3.3k 1/16W Metal Oxide |
| R1408                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1409                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1410                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1411                                | VRS-CJ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R1412                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1413                                | VRS-CZ1JF3R3JY | AA         |          | R             | Resistor 3.3 1/16W Metal Oxide  |
| R1414                                | VRS-CJ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide   |
| R1415                                | VRS-CJ1JF473JY | AB         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1416                                | VRS-CH1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide   |
| R1417                                | VRS-CZ1JF4R7JY | AA         |          | R             | Resistor 4.7 1/16W Metal Oxide  |
| R1420                                | VRS-CZ1JF123FY | AA         |          | R             | Resistor 12k 1/16W Metal Oxide  |
| R1421                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide   |
| R1424                                | VRS-CZ1JF4R7JY | AA         |          | R             | Resistor 4.7 1/16W Metal Oxide  |
| R1426                                | VRS-CH1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide   |
| R1427                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1428                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1429                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide   |
| R1430                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1431                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1432                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1433                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1434                                | VRS-CJ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide   |
| R1435                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |

| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                     |
|--------------------------------------|----------------|------------|----------|---------------|---------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                |            |          |               |                                 |
| R1437                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1439                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1440                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1441                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1442                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1443                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1445                                | VRS-CJ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide   |
| R1446                                | VRS-CZ1JF4R7JY | AA         |          | R             | Resistor 4.7 1/16W Metal Oxide  |
| R1449                                | VRS-CZ1JF243FY | AA         |          | R             | Resistor 24k 1/16W Metal Oxide  |
| R1450                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1451                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1452                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R1453                                | VRS-CZ1JF243FY | AA         |          | R             | Resistor 24k 1/16W Metal Oxide  |
| R1454                                | VRS-CZ1JF4R7JY | AA         |          | R             | Resistor 4.7 1/16W Metal Oxide  |
| R1455                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R1456                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1457                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1458                                | VRS-CZ1JF221JY | AA         |          | R             | Resistor 220 1/16W Metal Oxide  |
| R1460                                | VRS-CZ1JF221JY | AA         |          | R             | Resistor 220 1/16W Metal Oxide  |
| R1461                                | VRS-CZ1JF222FY | AA         |          | R             | Resistor 2.2k 1/16W Metal Oxide |
| R1462                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide   |
| R1463                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R1464                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R1465                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1466                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1469                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1470                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R1472                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1473                                | VRS-CZ1JF222FY | AA         |          | R             | Resistor 2.2k 1/16W Metal Oxide |
| R1474                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1477                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1478                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1479                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1480                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1501                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1502                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1505                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1506                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1507                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1510                                | VRS-CZ1JF104FY | AB         |          | R             | Resistor 100k 1/16W Metal Oxide |
| R1511                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1512                                | VRS-CZ1JF104FY | AB         |          | R             | Resistor 100k 1/16W Metal Oxide |
| R1517                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1518                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1521                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1522                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1532                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1534                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1535                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1536                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1537                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1538                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1539                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1540                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1541                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1542                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1543                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1545                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1546                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1547                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1551                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1555                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1556                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1557                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1558                                | VRS-CZ1JF331JY | AA         |          | R             | Resistor 330 1/16W Metal Oxide  |
| R1559                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1573                                | VRS-TQ2BD561JY | AA         |          | R             | Resistor 560 1/8W Metal Oxide   |
| R1574                                | VRS-TQ2BD561JY | AA         |          | R             | Resistor 560 1/8W Metal Oxide   |
| R1575                                | VRS-TQ2BD561JY | AA         |          | R             | Resistor 560 1/8W Metal Oxide   |
| R1577                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide   |
| R1578                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide   |
| R1579                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide   |
| R1593                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1594                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1596                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1597                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1598                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1599                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1600                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1602                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R1603                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide   |
| R1604                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1605                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1606                                | RR-SZA031WJZZY | AA         |          | R             | Resistor 4.64K                  |
| R1607                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |

| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                     |
|--------------------------------------|----------------|------------|----------|---------------|---------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                |            |          |               |                                 |
| R1608                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1609                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R1610                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1611                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R1612                                | VRS-CZ1JF105JY | AA         |          | R             | Resistor 1M 1/16W Metal Oxide   |
| R1614                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R1615                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R1616                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1617                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R1618                                | VRS-CH1JF103JY | AA         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1620                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide   |
| R1621                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide   |
| R1622                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide   |
| R1623                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide   |
| R1624                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1626                                | VRS-CH1JF101JY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1627                                | VRS-CH1JF101JY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1628                                | VRS-CH1JF101JY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1629                                | VRS-CH1JF101JY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1630                                | VRS-CH1JF101JY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1631                                | VRS-CH1JF101JY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R1632                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1634                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1635                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R1636                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide   |
| R1647                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1702                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R1709                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1710                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1711                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1712                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1713                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1714                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1715                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R1717                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1719                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1720                                | VRS-CZ1JF104FY | AB         |          | R             | Resistor 100k 1/16W Metal Oxide |
| R1722                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1723                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1726                                | RR-SZA031WJZZY | AA         |          | R             | Resistor 4.64K                  |
| R1727                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1728                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1729                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R1730                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R1731                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R1732                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R1733                                | VRS-CH1JF103JY | AA         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1734                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide   |
| R1735                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1736                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R1740                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R1742                                | VRS-CZ1JF331JY | AA         |          | R             | Resistor 330 1/16W Metal Oxide  |
| R2001                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R2002                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R2003                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2004                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2005                                | VRS-CZ1JF272FY | AA         |          | R             | Resistor 2.7k 1/16W Metal Oxide |
| R2006                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R2007                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R2008                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2009                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2010                                | VRS-CJ1JF333JY | AA         |          | R             | Resistor 33k 1/16W Metal Oxide  |
| R2011                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R2012                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2013                                | VRS-CH1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R2014                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2015                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2016                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2017                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2019                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2023                                | VRS-CZ1JF393FY | AA         |          | R             | Resistor 39k 1/16W Metal Oxide  |
| R2024                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2029                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2030                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2031                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R2032                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R2033                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R2035                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R2036                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R2037                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2038                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2039                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2040                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2041                                | VRS-CZ1JF152JY | AA         |          | R             | Resistor 1.5k 1/16W Metal Oxide |
| R2042                                | VRS-CH1JF101JY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |



| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                     |
|--------------------------------------|----------------|------------|----------|---------------|---------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                |            |          |               |                                 |
| R2043                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R2044                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R2045                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R2047                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R2048                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R2049                                | VRS-CZ1JF272FY | AA         |          | R             | Resistor 2.7k 1/16W Metal Oxide |
| R2050                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R2051                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R2052                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R2053                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2054                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2055                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2056                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2060                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R2061                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R2062                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2063                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2064                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2065                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2070                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R2076                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2081                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2082                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R2098                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2101                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2104                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2105                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2107                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2109                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2112                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2113                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2115                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2117                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2120                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2121                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2124                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2126                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2127                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2128                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2130                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2132                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2134                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2135                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R2201                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R2202                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R2203                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R2204                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R2209                                | VRS-TV1JD102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2210                                | VRS-TV1JD331JY | AB         |          | R             | Resistor 330 1/16W Metal Oxide  |
| R2211                                | VRS-TV1JD331JY | AB         |          | R             | Resistor 330 1/16W Metal Oxide  |
| R2212                                | VRS-TV1JD102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2213                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R2214                                | VRS-CZ1JF911JY | AA         |          | R             | Resistor 910 1/16W Metal Oxide  |
| R2215                                | VRS-CZ1JF911JY | AA         |          | R             | Resistor 910 1/16W Metal Oxide  |
| R2216                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R2219                                | VRS-TV1JD102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2220                                | VRS-TV1JD331JY | AB         |          | R             | Resistor 330 1/16W Metal Oxide  |
| R2221                                | VRS-CZ1JF911JY | AA         |          | R             | Resistor 910 1/16W Metal Oxide  |
| R2222                                | VRS-TV1JD102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2223                                | VRS-TV1JD102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2224                                | VRS-TV1JD102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R2237                                | VRS-CZ1JF105JY | AA         |          | R             | Resistor 1M 1/16W Metal Oxide   |
| R2255                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2601                                | VRS-CH1JF223JY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R2602                                | VRS-CH1JF223JY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R2603                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R2604                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2605                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2606                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2607                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2608                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2609                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2610                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2611                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2612                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2613                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2614                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2617                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2618                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2619                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2620                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2628                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R2629                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R3304                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R3305                                | VRS-CH1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |

| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                          |
|--------------------------------------|----------------|------------|----------|---------------|--------------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                |            |          |               |                                      |
| R3306                                | VR5-CH1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide        |
| R3307                                | VR5-CZ1JF471JY | AA         |          | R             | Resistor 470 1/16W Metal Oxide       |
| R3308                                | VR5-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R3309                                | VR5-CZ1JF471JY | AA         |          | R             | Resistor 470 1/16W Metal Oxide       |
| R3310                                | VR5-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R3311                                | VR5-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R3314                                | VR5-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide        |
| R3315                                | VR5-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide        |
| R3316                                | VR5-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide        |
| R3317                                | VR5-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide        |
| R3318                                | VR5-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide         |
| R3320                                | VR5-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide         |
| R3321                                | VR5-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide        |
| R3322                                | VR5-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide         |
| R3323                                | VR5-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide         |
| R3324                                | VR5-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide        |
| R3325                                | VR5-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R3326                                | VR5-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide        |
| R3327                                | VR5-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R3328                                | VR5-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R3329                                | VR5-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide        |
| R3330                                | VR5-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide        |
| R3331                                | VR5-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R3332                                | VR5-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R3333                                | VR5-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R3334                                | VR5-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R3335                                | VR5-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R3336                                | VR5-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R3339                                | VR5-CH1JF103JY | AA         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R3340                                | VRK-CD1JJ681JY | AB         |          | R             | Resistor 680 1/16W Metal Composition |
| R3341                                | VRK-CD1JJ681JY | AB         |          | R             | Resistor 680 1/16W Metal Composition |
| R3342                                | VRK-CD1JJ103JY | AC         |          | R             | Resistor 10k 1/16W Metal Composition |
| R3343                                | VRK-CD1JJ103JY | AC         |          | R             | Resistor 10k 1/16W Metal Composition |
| R3344                                | VRK-CD1JJ103JY | AC         |          | R             | Resistor 10k 1/16W Metal Composition |
| R3345                                | VR5-CH1JF103JY | AA         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R3346                                | VR5-CZ1JF105JY | AA         |          | R             | Resistor 1M 1/16W Metal Oxide        |
| R3348                                | VR5-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide        |
| R3349                                | VR5-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide        |
| R3352                                | VR5-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide         |
| R3355                                | VR5-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide        |
| R3356                                | VR5-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide        |
| R3357                                | VRK-CD1JJ103JY | AC         |          | R             | Resistor 10k 1/16W Metal Composition |
| R3358                                | VRK-CD1JJ103JY | AC         |          | R             | Resistor 10k 1/16W Metal Composition |
| R3359                                | VRK-CD1JJ103JY | AC         |          | R             | Resistor 10k 1/16W Metal Composition |
| R3360                                | VR5-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R3362                                | VR5-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R3363                                | VR5-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R3368                                | VR5-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R3369                                | VR5-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R3370                                | VR5-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R3378                                | VR5-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide         |
| R3501                                | VR5-CH1JF680JY | AA         |          | R             | Resistor 68 1/16W Metal Oxide        |
| R3502                                | VR5-CH1JF680JY | AA         |          | R             | Resistor 68 1/16W Metal Oxide        |
| R3503                                | VR5-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide         |
| R3504                                | VR5-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide         |
| R3505                                | VR5-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide         |
| R3506                                | VR5-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide         |
| R3507                                | VRK-CD1JJ330JY | AC         |          | R             | Resistor 33 1/16W Metal Composition  |
| R3509                                | VRK-CD1JJ330JY | AC         |          | R             | Resistor 33 1/16W Metal Composition  |
| R3511                                | VRK-CD1JJ680JY | AC         |          | R             | Resistor 68 1/16W Metal Composition  |
| R3513                                | VR5-CH1JF680JY | AA         |          | R             | Resistor 68 1/16W Metal Oxide        |
| R3514                                | VR5-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide        |
| R3515                                | VR5-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide        |
| R3516                                | VR5-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide        |
| R3517                                | VR5-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide        |
| R3518                                | VRK-CD1JJ820JY | AB         |          | R             | Resistor 82 1/16W Metal Composition  |
| R3520                                | VRK-CD1JJ820JY | AB         |          | R             | Resistor 82 1/16W Metal Composition  |
| R3522                                | VR5-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide        |
| R3523                                | VR5-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide        |
| R3524                                | VRK-CD1JJ330JY | AC         |          | R             | Resistor 33 1/16W Metal Composition  |
| R3526                                | VRK-CD1JJ330JY | AC         |          | R             | Resistor 33 1/16W Metal Composition  |
| R3528                                | VR5-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide        |
| R3529                                | VR5-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide        |
| R3530                                | VR5-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide        |
| R3531                                | VR5-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide        |
| R3532                                | VR5-CZ1JF510FY | AA         |          | R             | Resistor 51 1/16W Metal Oxide        |
| R3533                                | VRK-CD1JJ820JY | AB         |          | R             | Resistor 82 1/16W Metal Composition  |
| R3535                                | VRK-CD1JJ820JY | AB         |          | R             | Resistor 82 1/16W Metal Composition  |
| R3537                                | VR5-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide        |
| R3538                                | VR5-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide        |
| R3539                                | VR5-CZ1JF510FY | AA         |          | R             | Resistor 51 1/16W Metal Oxide        |
| R3540                                | VRK-CD1JJ330JY | AC         |          | R             | Resistor 33 1/16W Metal Composition  |
| R3542                                | VRK-CD1JJ330JY | AC         |          | R             | Resistor 33 1/16W Metal Composition  |
| R3544                                | VR5-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide        |
| R3545                                | VR5-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide        |

| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                           |
|--------------------------------------|----------------|------------|----------|---------------|---------------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                |            |          |               |                                       |
| R3546                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide         |
| R3547                                | VRS-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide         |
| R3548                                | VRK-CD1JJ820JY | AB         |          | R             | Resistor 82 1/16W Metal Composition   |
| R3550                                | VRK-CD1JJ820JY | AB         |          | R             | Resistor 82 1/16W Metal Composition   |
| R3552                                | VRS-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide         |
| R3553                                | VRS-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide         |
| R3554                                | VRK-CD1JJ330JY | AC         |          | R             | Resistor 33 1/16W Metal Composition   |
| R3555                                | VRK-CD1JJ330JY | AC         |          | R             | Resistor 33 1/16W Metal Composition   |
| R3558                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide         |
| R3559                                | VRS-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide         |
| R3560                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide         |
| R3561                                | VRS-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide         |
| R3562                                | VRS-CZ1JF510FY | AA         |          | R             | Resistor 51 1/16W Metal Oxide         |
| R3563                                | VRK-CD1JJ820JY | AB         |          | R             | Resistor 82 1/16W Metal Composition   |
| R3565                                | VRK-CD1JJ820JY | AB         |          | R             | Resistor 82 1/16W Metal Composition   |
| R3567                                | VRS-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide         |
| R3568                                | VRS-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide         |
| R3569                                | VRS-CZ1JF510FY | AA         |          | R             | Resistor 51 1/16W Metal Oxide         |
| R3570                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide         |
| R3571                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide         |
| R3572                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide         |
| R3573                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide         |
| R3574                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide         |
| R3575                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide         |
| R3576                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide         |
| R3577                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide         |
| R8101                                | VRK-CD1JJ392JY | AC         |          | R             | Resistor 3.9k 1/16W Metal Composition |
| R8102                                | VRK-CD1JJ392JY | AC         |          | R             | Resistor 3.9k 1/16W Metal Composition |
| R8103                                | VRK-CD1JJ392JY | AC         |          | R             | Resistor 3.9k 1/16W Metal Composition |
| R8104                                | VRS-CZ1JF392FY | AA         |          | R             | Resistor 3.9k 1/16W Metal Oxide       |
| R8105                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8106                                | VRS-CZ1JF392FY | AA         |          | R             | Resistor 3.9k 1/16W Metal Oxide       |
| R8107                                | VRK-CD1JJ392JY | AC         |          | R             | Resistor 3.9k 1/16W Metal Composition |
| R8108                                | VRK-CD1JJ392JY | AC         |          | R             | Resistor 3.9k 1/16W Metal Composition |
| R8109                                | VRK-CD1JJ392JY | AC         |          | R             | Resistor 3.9k 1/16W Metal Composition |
| R8110                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8112                                | VRK-CD1JJ470JY | AC         |          | R             | Resistor 47 1/16W Metal Composition   |
| R8114                                | VRS-CZ1JF153FY | AA         |          | R             | Resistor 15k 1/16W Metal Oxide        |
| R8115                                | VRS-CH1JF392JY | AA         |          | R             | Resistor 3.9k 1/16W Metal Oxide       |
| R8116                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide         |
| R8117                                | VRS-CZ1JF153FY | AA         |          | R             | Resistor 15k 1/16W Metal Oxide        |
| R8118                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8119                                | VRS-CZ1JF392FY | AA         |          | R             | Resistor 3.9k 1/16W Metal Oxide       |
| R8120                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide         |
| R8121                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8122                                | VRK-CD1JJ470JY | AC         |          | R             | Resistor 47 1/16W Metal Composition   |
| R8123                                | VRK-CD1JJ470JY | AC         |          | R             | Resistor 47 1/16W Metal Composition   |
| R8124                                | VRK-CD1JJ470JY | AC         |          | R             | Resistor 47 1/16W Metal Composition   |
| R8125                                | VRK-CD1JJ470JY | AC         |          | R             | Resistor 47 1/16W Metal Composition   |
| R8126                                | VRS-CH1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide         |
| R8127                                | VRS-CH1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide         |
| R8128                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8129                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8130                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide         |
| R8131                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8132                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide         |
| R8133                                | VRS-CH1JF101JY | AA         |          | R             | Resistor 100 1/16W Metal Oxide        |
| R8134                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8135                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8136                                | VRS-CZ1JF301FY | AA         |          | R             | Resistor 300 1/16W Metal Oxide        |
| R8137                                | VRK-CD1JJ103JY | AC         |          | R             | Resistor 10k 1/16W Metal Composition  |
| R8138                                | VRS-CZ1JF390FY | AA         |          | R             | Resistor 39 1/16W Metal Oxide         |
| R8139                                | VRS-CZ1JF390FY | AA         |          | R             | Resistor 39 1/16W Metal Oxide         |
| R8140                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide       |
| R8141                                | VRS-CZ1JF182FY | AA         |          | R             | Resistor 1.8k 1/16W Metal Oxide       |
| R8142                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8143                                | VRS-CZ1JF182FY | AA         |          | R             | Resistor 1.8k 1/16W Metal Oxide       |
| R8144                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide         |
| R8145                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide         |
| R8146                                | VRS-CH1JF103JY | AA         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8147                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8148                                | VRK-CD1JJ680JY | AC         |          | R             | Resistor 68 1/16W Metal Composition   |
| R8149                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8150                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8151                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8152                                | VRS-CH1JF103JY | AA         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8153                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8154                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8155                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide         |
| R8156                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8157                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide        |
| R8158                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide         |
| R8159                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide         |
| R8160                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide         |
| R8161                                | VRK-CD1JJ103JY | AC         |          | R             | Resistor 10k 1/16W Metal Composition  |

| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                          |
|--------------------------------------|----------------|------------|----------|---------------|--------------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                |            |          |               |                                      |
| R8162                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8163                                | VRK-CD1JJ680JY | AC         |          | R             | Resistor 68 1/16W Metal Composition  |
| R8164                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide        |
| R8165                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide        |
| R8166                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8167                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8168                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8169                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8170                                | VRS-CZ1JF820JY | AA         |          | R             | Resistor 82 1/16W Metal Oxide        |
| R8171                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide        |
| R8172                                | VRS-CZ1JF392FY | AA         |          | R             | Resistor 3.9k 1/16W Metal Oxide      |
| R8173                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide        |
| R8174                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8175                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide        |
| R8176                                | VRS-CH1JF103JY | AA         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8177                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide        |
| R8178                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8179                                | VRS-CH1JF103JY | AA         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8180                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8181                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8182                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide         |
| R8183                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8184                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide         |
| R8185                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide         |
| R8186                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide        |
| R8187                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide        |
| R8188                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8189                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8190                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R8191                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R8194                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8196                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide        |
| R8301                                | VRK-CD1JJ680JY | AC         |          | R             | Resistor 68 1/16W Metal Composition  |
| R8303                                | VRS-CH1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8304                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8305                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8306                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8307                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8309                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8310                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8311                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8313                                | VRS-CZ1JF680FY | AA         |          | R             | Resistor 68 1/16W Metal Oxide        |
| R8314                                | VRS-CZ1JF680FY | AA         |          | R             | Resistor 68 1/16W Metal Oxide        |
| R8315                                | VRS-CZ1JF680FY | AA         |          | R             | Resistor 68 1/16W Metal Oxide        |
| R8316                                | VRS-CZ1JF680FY | AA         |          | R             | Resistor 68 1/16W Metal Oxide        |
| R8317                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8318                                | VRK-CD1JJ680JY | AC         |          | R             | Resistor 68 1/16W Metal Composition  |
| R8319                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8320                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8324                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8325                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8326                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8327                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8328                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8329                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8330                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8331                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8332                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8333                                | VRK-CD1JJ151JY | AC         |          | R             | Resistor 150 1/16W Metal Composition |
| R8334                                | VRK-CD1JJ151JY | AC         |          | R             | Resistor 150 1/16W Metal Composition |
| R8335                                | VRK-CD1JJ151JY | AC         |          | R             | Resistor 150 1/16W Metal Composition |
| R8336                                | VRK-CD1JJ151JY | AC         |          | R             | Resistor 150 1/16W Metal Composition |
| R8337                                | VRK-CD1JJ151JY | AC         |          | R             | Resistor 150 1/16W Metal Composition |
| R8338                                | VRK-CD1JJ151JY | AC         |          | R             | Resistor 150 1/16W Metal Composition |
| R8339                                | VRK-CD1JJ151JY | AC         |          | R             | Resistor 150 1/16W Metal Composition |
| R8340                                | VRK-CD1JJ151JY | AC         |          | R             | Resistor 150 1/16W Metal Composition |
| R8341                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8342                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8343                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8344                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8345                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8346                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8347                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8348                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8349                                | VRK-CD1JJ220JY | AC         |          | R             | Resistor 22 1/16W Metal Composition  |
| R8350                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8351                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8352                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8353                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8354                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8355                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8356                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8357                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8358                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide        |
| R8367                                | VRS-CZ1JF151JY | AA         |          | R             | Resistor 150 1/16W Metal Oxide       |

| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                         |
|--------------------------------------|----------------|------------|----------|---------------|-------------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                |            |          |               |                                     |
| R8368                                | VRS-CZ1JF151JY | AA         |          | R             | Resistor 150 1/16W Metal Oxide      |
| R8369                                | VRS-CZ1JF151JY | AA         |          | R             | Resistor 150 1/16W Metal Oxide      |
| R8370                                | VRS-CZ1JF151JY | AA         |          | R             | Resistor 150 1/16W Metal Oxide      |
| R8371                                | VRS-CZ1JF151JY | AA         |          | R             | Resistor 150 1/16W Metal Oxide      |
| R8372                                | VRS-CZ1JF151JY | AA         |          | R             | Resistor 150 1/16W Metal Oxide      |
| R8373                                | VRS-CZ1JF151JY | AA         |          | R             | Resistor 150 1/16W Metal Oxide      |
| R8374                                | VRS-CZ1JF151JY | AA         |          | R             | Resistor 150 1/16W Metal Oxide      |
| R8375                                | VRS-CH1JF680JY | AA         |          | R             | Resistor 68 1/16W Metal Oxide       |
| R8376                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide       |
| R8377                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide       |
| R8378                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide       |
| R8379                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide       |
| R8380                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide       |
| R8381                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide       |
| R8382                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide       |
| R8383                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide       |
| R8384                                | VRS-CZ1JF151JY | AA         |          | R             | Resistor 150 1/16W Metal Oxide      |
| R8385                                | VRS-CZ1JF151JY | AA         |          | R             | Resistor 150 1/16W Metal Oxide      |
| R8386                                | VRS-CZ1JF151JY | AA         |          | R             | Resistor 150 1/16W Metal Oxide      |
| R8387                                | VRS-CZ1JF151JY | AA         |          | R             | Resistor 150 1/16W Metal Oxide      |
| R8388                                | VRS-CZ1JF151JY | AA         |          | R             | Resistor 150 1/16W Metal Oxide      |
| R8389                                | VRS-CZ1JF151JY | AA         |          | R             | Resistor 150 1/16W Metal Oxide      |
| R8390                                | VRS-CZ1JF151JY | AA         |          | R             | Resistor 150 1/16W Metal Oxide      |
| R8391                                | VRS-CZ1JF151JY | AA         |          | R             | Resistor 150 1/16W Metal Oxide      |
| R8392                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide       |
| R8393                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide       |
| R8394                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide       |
| R8395                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide       |
| R8396                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide       |
| R8397                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide       |
| R8398                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide       |
| R8399                                | VRS-CZ1JF220JY | AA         |          | R             | Resistor 22 1/16W Metal Oxide       |
| R8401                                | VRS-CZ1JF224JY | AA         |          | R             | Resistor 220k 1/16W Metal Oxide     |
| R8402                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide       |
| R8403                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide       |
| R8404                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide       |
| R8405                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide       |
| R8406                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide        |
| R8407                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide      |
| R8408                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide        |
| R8410                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide      |
| R8412                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide       |
| R8413                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide       |
| R8414                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide        |
| R8415                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide       |
| R8416                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide        |
| R8417                                | VRS-CZ1JF330JY | AA         |          | R             | Resistor 33 1/16W Metal Oxide       |
| R8418                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide        |
| R8453                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide      |
| R8454                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide        |
| R8467                                | VRK-CD1JJ470JY | AC         |          | R             | Resistor 47 1/16W Metal Composition |
| R8468                                | VRK-CD1JJ470JY | AC         |          | R             | Resistor 47 1/16W Metal Composition |
| R8470                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide      |
| R8474                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide       |
| R8475                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide       |
| R8601                                | VRS-CZ1JF4R7JY | AA         |          | R             | Resistor 4.7 1/16W Metal Oxide      |
| R8603                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide       |
| R8605                                | VRS-CJ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide     |
| R8606                                | VRS-CJ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide       |
| R8607                                | VRS-CZ1JF4R7JY | AA         |          | R             | Resistor 4.7 1/16W Metal Oxide      |
| R8608                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide      |
| R8609                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide      |
| R8613                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide        |
| R8614                                | VRS-CZ1JF391JY | AA         |          | R             | Resistor 390 1/16W Metal Oxide      |
| R8616                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide        |
| R8618                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide        |
| R8620                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide       |
| R8621                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide       |
| R8623                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide       |
| R8624                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide        |
| R8625                                | VRS-CZ1JF511JY | AA         |          | R             | Resistor 510 1/16W Metal Oxide      |
| R8626                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide        |
| R8627                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide       |
| R8628                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide       |
| R8629                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide       |
| R8630                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide       |
| R8631                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide       |
| R8632                                | VRS-CJ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide     |
| R8633                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide     |
| R8634                                | VRS-CJ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide     |
| R8635                                | VRS-CJ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide     |
| R8638                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide        |
| R8639                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide      |
| R8640                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide      |
| R8701                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide     |

| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                          |
|--------------------------------------|----------------|------------|----------|---------------|--------------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                |            |          |               |                                      |
| R8702                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R8703                                | VRS-CZ1JF563JY | AA         |          | R             | Resistor 56k 1/16W Metal Oxide       |
| R8704                                | VRS-CZ1JF563JY | AA         |          | R             | Resistor 56k 1/16W Metal Oxide       |
| R8705                                | VRS-CH1JF563JY | AA         |          | R             | Resistor 56k 1/16W Metal Oxide       |
| R8706                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide        |
| R8707                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8708                                | VRS-CH1JF101JY | AA         |          | R             | Resistor 100 1/16W Metal Oxide       |
| R8709                                | VRK-CD1JJ470JY | AC         |          | R             | Resistor 47 1/16W Metal Composition  |
| R8710                                | VRS-CH1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide        |
| R8711                                | VRS-CH1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide        |
| R8713                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide       |
| R8714                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8715                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8716                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8717                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8718                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8719                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8720                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8721                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8722                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8723                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8724                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8725                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8726                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8727                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide       |
| R8728                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide       |
| R8801                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide        |
| R8802                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide        |
| R8803                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8804                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R8805                                | VRS-CZ1JF560JY | AA         |          | R             | Resistor 56 1/16W Metal Oxide        |
| R8807                                | VRS-CZ1JF512JY | AA         |          | R             | Resistor 5.1k 1/16W Metal Oxide      |
| R8825                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide       |
| R8826                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide         |
| R8827                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide         |
| R8832                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide         |
| R8833                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide        |
| R9001                                | VRS-CZ1JF822FY | AA         |          | R             | Resistor 8.2k 1/16W Metal Oxide      |
| R9004                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9005                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9006                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9007                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9010                                | VRS-CZ1JF182FY | AA         |          | R             | Resistor 1.8k 1/16W Metal Oxide      |
| R9011                                | VRS-CZ1JF182FY | AA         |          | R             | Resistor 1.8k 1/16W Metal Oxide      |
| R9012                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9013                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9014                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9015                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9101                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide        |
| R9103                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R9105                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide        |
| R9106                                | VRS-CH1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide        |
| R9108                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R9109                                | VRS-CH1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide        |
| R9110                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide        |
| R9111                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide        |
| R9113                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide        |
| R9114                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide        |
| R9115                                | VRS-CZ1JF470JY | AA         |          | R             | Resistor 47 1/16W Metal Oxide        |
| R9116                                | VRK-CD1JJ470JY | AC         |          | R             | Resistor 47 1/16W Metal Composition  |
| R9118                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R9130                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9131                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R9132                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R9205                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R9206                                | VRS-CJ1JF103JY | AA         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R9207                                | VRK-CD1JJ103JY | AC         |          | R             | Resistor 10k 1/16W Metal Composition |
| R9208                                | VRK-CD1JJ103JY | AC         |          | R             | Resistor 10k 1/16W Metal Composition |
| R9301                                | VRK-CD1JJ103JY | AC         |          | R             | Resistor 10k 1/16W Metal Composition |
| R9302                                | VRK-CD1JJ103JY | AC         |          | R             | Resistor 10k 1/16W Metal Composition |
| R9303                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R9304                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide       |
| R9305                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9308                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9309                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9311                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9313                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9315                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9317                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9319                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9321                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9323                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9325                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9326                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |
| R9328                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide      |

| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                     |
|--------------------------------------|----------------|------------|----------|---------------|---------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b> |                |            |          |               |                                 |
| R9331                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R9332                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R9334                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R9336                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R9339                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R9341                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R9343                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R9344                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R9346                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R9348                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R9351                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R9352                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R9354                                | VRS-CZ1JF472JY | AA         |          | R             | Resistor 4.7k 1/16W Metal Oxide |
| R9356                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R9357                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R9360                                | VRS-CZ1JF221JY | AA         |          | R             | Resistor 220 1/16W Metal Oxide  |
| R9361                                | VRS-CZ1JF221JY | AA         |          | R             | Resistor 220 1/16W Metal Oxide  |
| R9610                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R9611                                | VRS-CZ1JF563JY | AA         |          | R             | Resistor 56k 1/16W Metal Oxide  |
| R9612                                | VRS-CZ1JF822FY | AA         |          | R             | Resistor 8.2k 1/16W Metal Oxide |
| R9613                                | VRS-CZ1JF682FY | AA         |          | R             | Resistor 6.8k 1/16W Metal Oxide |
| R9614                                | VRS-CZ1JF154JY | AA         |          | R             | Resistor 150k 1/16W Metal Oxide |
| R9615                                | VRS-CZ1JF104FY | AB         |          | R             | Resistor 100k 1/16W Metal Oxide |
| R9616                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R9617                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R9619                                | VRS-CZ1JF153FY | AA         |          | R             | Resistor 15k 1/16W Metal Oxide  |
| R9621                                | VRS-CZ1JF273FY | AA         |          | R             | Resistor 27k 1/16W Metal Oxide  |
| R9623                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R9624                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R9625                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R9626                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R9627                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R9628                                | VRS-CZ1JF273FY | AA         |          | R             | Resistor 27k 1/16W Metal Oxide  |
| R9629                                | VRS-CZ1JF154JY | AA         |          | R             | Resistor 150k 1/16W Metal Oxide |
| R9630                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R9631                                | VRS-CZ1JF392FY | AA         |          | R             | Resistor 3.9k 1/16W Metal Oxide |
| R9632                                | VRS-CZ1JF105JY | AA         |          | R             | Resistor 1M 1/16W Metal Oxide   |
| R9633                                | VRS-CZ1JF682FY | AA         |          | R             | Resistor 6.8k 1/16W Metal Oxide |
| R9634                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R9635                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R9636                                | VRS-CZ1JF682FY | AA         |          | R             | Resistor 6.8k 1/16W Metal Oxide |
| R9637                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R9638                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R9639                                | VRS-CZ1JF224JY | AA         |          | R             | Resistor 220k 1/16W Metal Oxide |
| R9640                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R9641                                | VRS-CZ1JF682FY | AA         |          | R             | Resistor 6.8k 1/16W Metal Oxide |
| R9642                                | VRS-CZ1JF823JY | AA         |          | R             | Resistor 82k 1/16W Metal Oxide  |
| R9643                                | VRS-CZ1JF682FY | AA         |          | R             | Resistor 6.8k 1/16W Metal Oxide |
| R9644                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R9645                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R9646                                | VRS-CZ1JF153FY | AA         |          | R             | Resistor 15k 1/16W Metal Oxide  |
| R9647                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R9648                                | VRS-CZ1JF123FY | AA         |          | R             | Resistor 12k 1/16W Metal Oxide  |
| R9649                                | VRS-CZ1JF100JY | AA         |          | R             | Resistor 10 1/16W Metal Oxide   |
| R9650                                | VRS-CZ1JF101FY | AA         |          | R             | Resistor 100 1/16W Metal Oxide  |
| R9651                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R9652                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R9653                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R9654                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R9655                                | VRS-TW2ED750JY | AA         |          | R             | Resistor 75 1/4W Metal Oxide    |
| R9701                                | VRS-CZ1JF273FY | AA         |          | R             | Resistor 27k 1/16W Metal Oxide  |
| R9702                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R9703                                | VRS-CZ1JF473FY | AA         |          | R             | Resistor 47k 1/16W Metal Oxide  |
| R9704                                | VRS-CZ1JF223FY | AA         |          | R             | Resistor 22k 1/16W Metal Oxide  |
| R9705                                | VRS-CZ1JF102FY | AA         |          | R             | Resistor 1k 1/16W Metal Oxide   |
| R9706                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R9707                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R9708                                | VRS-CZ1JF000JY | AA         |          | R             | Resistor 0 1/16W Metal Oxide    |
| R9712                                | VRS-CZ1JF273FY | AA         |          | R             | Resistor 27k 1/16W Metal Oxide  |
| R9713                                | VRS-CZ1JF103FY | AB         |          | R             | Resistor 10k 1/16W Metal Oxide  |
| R9714                                | VRS-CZ1JF183FY | AA         |          | R             | Resistor 18k 1/16W Metal Oxide  |
| R9715                                | VRS-CZ1JF333FY | AA         |          | R             | Resistor 33k 1/16W Metal Oxide  |
| SC1101                               | QCNCWA251WJZZY | AH         |          | R             | Connector 23pin (FC)            |
| SC1102                               | QCNCWA251WJZZY | AH         |          | R             | Connector 23pin (MA)            |
| SC1301                               | QCNCWA251WJZZY | AH         |          | R             | Connector 23pin (SA)            |
| SC1501                               | QSOCZA072WJZZQ | AH         |          | R             | Socket 23pin (TMDS Input2)      |
| SC1502                               | QSOCZA072WJZZQ | AH         |          | R             | Socket 23pin (TMDS Input3)      |
| SC1701                               | QSOCZA072WJZZQ | AH         |          | R             | Socket 23pin (TMDS Input1)      |
| SC8701                               | QSOCZA050WJZZY | AH         |          | R             | Socket 12pin (SD Card Socket)   |
| TH2001                               | VHHM1103J03-1Y | AC         |          | R             | Thermistor                      |
| VA1509                               | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1510                               | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1511                               | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1512                               | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1513                               | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |

| NO.                                      | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                     |
|------------------------------------------|----------------|------------|----------|---------------|---------------------------------|
| <b>[3] DUNTKE028FE03 (MAIN Unit)</b>     |                |            |          |               |                                 |
| VA1514                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1515                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1516                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1517                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1518                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1519                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1520                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1521                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1522                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1523                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1524                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1701                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1702                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1703                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1704                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1705                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1706                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1707                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| VA1708                                   | RH-VXA187WJQZY | AB         |          | R             | Varistor EZAEG2A50AX            |
| X1401                                    | RCRSCA045WJZZY | AG         |          | R             | Crystal 12.288MHz               |
| X1402                                    | RCRSCA045WJZZY | AG         |          | R             | Crystal 12.288MHz               |
| X1501                                    | RCRSCA146WJZZY |            |          | R             | Crystal 28.322MHz               |
| X2002                                    | RFILZA023WJQZY | AD         |          | R             | Filter                          |
| X3301                                    | RCRSC0170TAZZY | AG         |          | R             | Crystal 14.31818MHz             |
| X8402                                    | RCRSZA008WJZZY | AQ         |          | R             | Crystal                         |
| X8601                                    | RCRSCA094WJZZY | AG         |          | R             | Crystal                         |
| N                                        | QCNW-E249WJPZ  | AH         |          | R             | Connecting Cord (TUNER)         |
| N                                        | QCNW-E258WJQZ  | AG         |          | R             | Connecting Cord (PD)            |
| N                                        | QCNW-E895WJQZ  | AG         |          | R             | Connecting Cord (KM)            |
| <b>[4] DUNTGD935FE10 (TERMINAL Unit)</b> |                |            |          |               |                                 |
| C501                                     | VCKYTV1CB105KY | AC         |          | X             | Capacitor 1 16V Ceramic         |
| C502                                     | VCKYTV1CB105KY | AC         |          | X             | Capacitor 1 16V Ceramic         |
| C503                                     | RC-KZA510WJPZY | AB         |          | X             | Capacitor 10 16V Ceramic        |
| C504                                     | VCKYTV1CB105KY | AC         |          | X             | Capacitor 1 16V Ceramic         |
| C505                                     | VCKYTV1CB105KY | AC         |          | X             | Capacitor 1 16V Ceramic         |
| C506                                     | RC-KZA510WJPZY | AB         |          | X             | Capacitor 10 16V Ceramic        |
| C507                                     | VCKYTV1CB105KY | AC         |          | X             | Capacitor 1 16V Ceramic         |
| C508                                     | VCKYTV1CB105KY | AC         |          | X             | Capacitor 1 16V Ceramic         |
| C509                                     | RC-KZA510WJPZY | AB         |          | X             | Capacitor 10 16V Ceramic        |
| C510                                     | VCKYTV1CB105KY | AC         |          | X             | Capacitor 1 16V Ceramic         |
| C511                                     | RC-KZA510WJPZY | AB         |          | X             | Capacitor 10 16V Ceramic        |
| C512                                     | VCKYTV1CB105KY | AC         |          | X             | Capacitor 1 16V Ceramic         |
| C513                                     | RC-KZA510WJPZY | AB         |          | X             | Capacitor 10 16V Ceramic        |
| C514                                     | VCKYTV1CB105KY | AC         |          | X             | Capacitor 1 16V Ceramic         |
| C515                                     | VCKYTV1CB105KY | AC         |          | X             | Capacitor 1 16V Ceramic         |
| C516                                     | VCKYTV1CB105KY | AC         |          | X             | Capacitor 1 16V Ceramic         |
| C517                                     | RC-KZA510WJPZY | AB         |          | X             | Capacitor 10 16V Ceramic        |
| C518                                     | VCKYCY1EF104ZY | AA         |          | X             | Capacitor 0.1 25V Ceramic       |
| C519                                     | VCKYCY1HB103KY | AA         |          | X             | Capacitor 0.01 50V Ceramic      |
| C520                                     | VCKYCY1HB103KY | AA         |          | X             | Capacitor 0.01 50V Ceramic      |
| C521                                     | VCKYCY1HB103KY | AA         |          | X             | Capacitor 0.01 50V Ceramic      |
| C522                                     | VCKYTV1CB105KY | AC         |          | X             | Capacitor 1 16V Ceramic         |
| C523                                     | VCKYCY1EF104ZY | AA         |          | X             | Capacitor 0.1 25V Ceramic       |
| C524                                     | VCAAPF1CJ396MY | AF         |          | X             | Capacitor 39 16V Electrolytic   |
| C525                                     | VCKYCY1EF104ZY | AA         |          | X             | Capacitor 0.1 25V Ceramic       |
| C526                                     | VCKYCY1EF104ZY | AA         |          | X             | Capacitor 0.1 25V Ceramic       |
| C527                                     | VCKYCY1EF104ZY | AA         |          | X             | Capacitor 0.1 25V Ceramic       |
| C528                                     | VCERML1CN226MY | AC         |          | X             | Capacitor 22 16V Capacitor(AL)  |
| C529                                     | VCKYCY1EF104ZY | AA         |          | X             | Capacitor 0.1 25V Ceramic       |
| C530                                     | VCKYCY1EF104ZY | AA         |          | X             | Capacitor 0.1 25V Ceramic       |
| C532                                     | VCKYCY1EF104ZY | AA         |          | X             | Capacitor 0.1 25V Ceramic       |
| C536                                     | VCKYCH1CB104KY | AB         |          | X             | Capacitor 0.1 16V Ceramic       |
| C537                                     | VCKYCH1CB104KY | AB         |          | X             | Capacitor 0.1 16V Ceramic       |
| C538                                     | VCKYCH1CB104KY | AB         |          | X             | Capacitor 0.1 16V Ceramic       |
| C540                                     | RC-KZA510WJPZY | AB         |          | X             | Capacitor 10 16V Ceramic        |
| C541                                     | VCKYCH1CB104KY | AB         |          | X             | Capacitor 0.1 16V Ceramic       |
| C543                                     | VCKYCH1CB104KY | AB         |          | X             | Capacitor 0.1 16V Ceramic       |
| C544                                     | VCKYCY1EF104ZY | AA         |          | X             | Capacitor 0.1 25V Ceramic       |
| C545                                     | VCKYCY1EF104ZY | AA         |          | X             | Capacitor 0.1 25V Ceramic       |
| C546                                     | VCKYCY1EF104ZY | AA         |          | X             | Capacitor 0.1 25V Ceramic       |
| C547                                     | VCERMZ1CN107MY | AD         |          | X             | Capacitor 100 16V Capacitor(AL) |
| C551                                     | VCKYCY1EF104ZY | AA         |          | X             | Capacitor 0.1 25V Ceramic       |
| C552                                     | VCKYCY1EF104ZY | AA         |          | X             | Capacitor 0.1 25V Ceramic       |
| C553                                     | VCKYCY1EF104ZY | AA         |          | X             | Capacitor 0.1 25V Ceramic       |
| C554                                     | VCAAPF1CJ396MY | AF         |          | X             | Capacitor 39 16V Electrolytic   |
| C555                                     | RC-KZA154WJZZY | AB         |          | X             | Capacitor 4.7 16V Ceramic       |
| C556                                     | RC-KZA154WJZZY | AB         |          | X             | Capacitor 4.7 16V Ceramic       |
| C557                                     | RC-KZA104WJZZY | AA         |          | X             | Capacitor 1 25V Ceramic         |
| C564                                     | VCKYCH1CB104KY | AB         |          | X             | Capacitor 0.1 16V Ceramic       |
| C567                                     | VCKYCY1EF104ZY | AA         |          | X             | Capacitor 0.1 25V Ceramic       |
| C575                                     | VCAAPF1CJ396MY | AF         |          | X             | Capacitor 39 16V Electrolytic   |
| C2701                                    | RC-KZA104WJZZY | AA         |          | X             | Capacitor 1 25V Ceramic         |
| C2702                                    | RC-KZA104WJZZY | AA         |          | X             | Capacitor 1 25V Ceramic         |
| C2703                                    | RC-KZA104WJZZY | AA         |          | X             | Capacitor 1 25V Ceramic         |



| NO.                                      | PARTS CODE      | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                     |
|------------------------------------------|-----------------|------------|----------|---------------|---------------------------------|
| <b>[4] DUNTKD935FE10 (TERMINAL Unit)</b> |                 |            |          |               |                                 |
| C2704                                    | RC-KZA104WJZZY  | AA         |          | X             | Capacitor 1 25V Ceramic         |
| C2705                                    | RC-KZA104WJZZY  | AA         |          | X             | Capacitor 1 25V Ceramic         |
| C2706                                    | RC-KZA104WJZZY  | AA         |          | X             | Capacitor 1 25V Ceramic         |
| C2707                                    | VCKYCY1HF224ZY  | AA         |          | X             | Capacitor 0.22 50V Ceramic      |
| C2708                                    | VCKYCY1EF104ZY  | AA         |          | X             | Capacitor 0.1 25V Ceramic       |
| C2709                                    | VCKYCY1HF224ZY  | AA         |          | X             | Capacitor 0.22 50V Ceramic      |
| C2710                                    | VCKYCY1HF224ZY  | AA         |          | X             | Capacitor 0.22 50V Ceramic      |
| C2711                                    | VCKYCY1HF224ZY  | AA         |          | X             | Capacitor 0.22 50V Ceramic      |
| C2712                                    | RC-KZA104WJZZY  | AA         |          | X             | Capacitor 1 25V Ceramic         |
| C2713                                    | RC-KZA104WJZZY  | AA         |          | X             | Capacitor 1 25V Ceramic         |
| C2714                                    | VCERMZ1EN227MY  | AE         |          | X             | Capacitor 220 25V Capacitor(AL) |
| C2715                                    | RC-KZA104WJZZY  | AA         |          | X             | Capacitor 1 25V Ceramic         |
| C2716                                    | RC-KZA104WJZZY  | AA         |          | X             | Capacitor 1 25V Ceramic         |
| C2717                                    | VCKYCY1HB104KY  | AA         |          | X             | Capacitor 0.1 50V Ceramic       |
| C2718                                    | VCKYCY1HB104KY  | AA         |          | X             | Capacitor 0.1 50V Ceramic       |
| C2720                                    | VCERMZ1EN227MY  | AE         |          | X             | Capacitor 220 25V Capacitor(AL) |
| C2725                                    | VCKYCY1HB104KY  | AA         |          | X             | Capacitor 0.1 50V Ceramic       |
| C2726                                    | VCKYCY1HB104KY  | AA         |          | X             | Capacitor 0.1 50V Ceramic       |
| C2727                                    | VCKYCY1HB104KY  | AA         |          | X             | Capacitor 0.1 50V Ceramic       |
| C2728                                    | VCKYCY1HB104KY  | AA         |          | X             | Capacitor 0.1 50V Ceramic       |
| C2729                                    | VCKYTV1EB474KY  | AC         |          | X             | Capacitor 0.47 25V Ceramic      |
| C2730                                    | VCKYTV1EB474KY  | AC         |          | X             | Capacitor 0.47 25V Ceramic      |
| C2731                                    | RC-KZA516WJQZY  | AC         |          | X             | Capacitor 0.68 35V Ceramic      |
| C2732                                    | RC-KZA516WJQZY  | AC         |          | X             | Capacitor 0.68 35V Ceramic      |
| C2733                                    | VCCCCY1HH151JY  | AA         |          | X             | Capacitor 150p 50V Ceramic      |
| C2734                                    | VCCCCY1HH151JY  | AA         |          | X             | Capacitor 150p 50V Ceramic      |
| C2737                                    | VCKYCY1HB104KY  | AA         |          | X             | Capacitor 0.1 50V Ceramic       |
| C2738                                    | VCKYCY1HB104KY  | AA         |          | X             | Capacitor 0.1 50V Ceramic       |
| C2739                                    | VCKYCY1HB104KY  | AA         |          | X             | Capacitor 0.1 50V Ceramic       |
| C2740                                    | VCKYCY1HB104KY  | AA         |          | X             | Capacitor 0.1 50V Ceramic       |
| C2741                                    | VCCCCY1HH151JY  | AA         |          | X             | Capacitor 150p 50V Ceramic      |
| C2742                                    | VCCCCY1HH151JY  | AA         |          | X             | Capacitor 150p 50V Ceramic      |
| C2744                                    | VCAAPC1EJ106MY  | AF         |          | X             | Capacitor 10 25V Electrolytic   |
| C2745                                    | VCKYCY1HB103KY  | AA         |          | X             | Capacitor 0.01 50V Ceramic      |
| C2746                                    | RC-KZA110WJZZY  | AD         |          | X             | Capacitor                       |
| C2747                                    | RC-KZA110WJZZY  | AD         |          | X             | Capacitor                       |
| D501                                     | RH-EX1400CEZZY  | AB         |          | X             | Zener Diode UDZSTE-1710B, 10V   |
| D502                                     | RH-EX1400CEZZY  | AB         |          | X             | Zener Diode UDZSTE-1710B, 10V   |
| D503                                     | RH-EX1400CEZZY  | AB         |          | X             | Zener Diode UDZSTE-1710B, 10V   |
| D504                                     | RH-EX1400CEZZY  | AB         |          | X             | Zener Diode UDZSTE-1710B, 10V   |
| D505                                     | RH-EX1400CEZZY  | AB         |          | X             | Zener Diode UDZSTE-1710B, 10V   |
| D506                                     | RH-EX1400CEZZY  | AB         |          | X             | Zener Diode UDZSTE-1710B, 10V   |
| D507                                     | RH-EX1400CEZZY  | AB         |          | X             | Zener Diode UDZSTE-1710B, 10V   |
| D508                                     | RH-EX1400CEZZY  | AB         |          | X             | Zener Diode UDZSTE-1710B, 10V   |
| D509                                     | RH-EX1400CEZZY  | AB         |          | X             | Zener Diode UDZSTE-1710B, 10V   |
| D510                                     | RH-EX1400CEZZY  | AB         |          | X             | Zener Diode UDZSTE-1710B, 10V   |
| D511                                     | RH-EX1400CEZZY  | AB         |          | X             | Zener Diode UDZSTE-1710B, 10V   |
| D512                                     | VHDDAN217U+-1Y  | AB         |          | X             | Diode DAN217UT106               |
| D513                                     | VHDDAN217U+-1Y  | AB         |          | X             | Diode DAN217UT106               |
| D514                                     | VHDDAN217U+-1Y  | AB         |          | X             | Diode DAN217UT106               |
| D515                                     | VHDDAN217U+-1Y  | AB         |          | X             | Diode DAN217UT106               |
| D516                                     | VHDDAN217U+-1Y  | AB         |          | X             | Diode DAN217UT106               |
| D517                                     | VHDDAN217U+-1Y  | AB         |          | X             | Diode DAN217UT106               |
| D518                                     | RH-EX1400CEZZY  | AB         |          | X             | Zener Diode UDZSTE-1710B, 10V   |
| D519                                     | RH-EX1400CEZZY  | AB         |          | X             | Zener Diode UDZSTE-1710B, 10V   |
| D2701                                    | VHDKDS226//--1Y | AB         |          | X             | Diode KDS226-RTK/P              |
| FB501                                    | RBLN-A204WJZZY  | AA         |          | X             | Balun                           |
| FB502                                    | RBLN-A204WJZZY  | AA         |          | X             | Balun                           |
| FB503                                    | RBLN-A204WJZZY  | AA         |          | X             | Balun                           |
| FB504                                    | RBLN-0065TAZZY  | AA         |          | X             | Balun                           |
| FB505                                    | RBLN-0065TAZZY  | AA         |          | X             | Balun                           |
| FB506                                    | RBLN-A204WJZZY  | AA         |          | X             | Balun                           |
| FB507                                    | RBLN-0065TAZZY  | AA         |          | X             | Balun                           |
| FB508                                    | RBLN-0065TAZZY  | AA         |          | X             | Balun                           |
| FB509                                    | RBLN-A204WJZZY  | AA         |          | X             | Balun                           |
| FB510                                    | RBLN-A204WJZZY  | AA         |          | X             | Balun                           |
| FB511                                    | RBLN-A204WJZZY  | AA         |          | X             | Balun                           |
| FB512                                    | RBLN-0065TAZZY  | AA         |          | X             | Balun                           |
| FB513                                    | RBLN-0065TAZZY  | AA         |          | X             | Balun                           |
| FB514                                    | RBLN-A204WJZZY  | AA         |          | X             | Balun                           |
| FB515                                    | RBLN-0065TAZZY  | AA         |          | X             | Balun                           |
| FB516                                    | RBLN-0065TAZZY  | AA         |          | X             | Balun                           |
| FB517                                    | RBLN-A204WJZZY  | AA         |          | X             | Balun                           |
| FB518                                    | RBLN-A204WJZZY  | AA         |          | X             | Balun                           |
| FB519                                    | RBLN-A204WJZZY  | AA         |          | X             | Balun                           |
| FB520                                    | RBLN-0039TAZZY  | AB         |          | X             | Balun                           |
| FB531                                    | RBLN-A206WJZZY  | AA         |          | X             | Balun                           |
| FB532                                    | RBLN-A206WJZZY  | AA         |          | X             | Balun                           |
| FB533                                    | RBLN-A206WJZZY  | AA         |          | X             | Balun                           |
| FB534                                    | RBLN-A206WJZZY  | AA         |          | X             | Balun                           |
| FB2709                                   | RBLN-0064TAZZY  | AB         |          | X             | Balun                           |
| FB2710                                   | RBLN-0064TAZZY  | AB         |          | X             | Balun                           |
| FB2711                                   | RBLN-0064TAZZY  | AB         |          | X             | Balun                           |
| FB2712                                   | RBLN-0064TAZZY  | AB         |          | X             | Balun                           |
| IC501                                    | VHIMM3151XQ-1Q  | AT         |          | X             | IC MM3151XQ                     |

| NO.                                      | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                     |
|------------------------------------------|----------------|------------|----------|---------------|---------------------------------|
| <b>[4] DUNTKD935FE10 (TERMINAL Unit)</b> |                |            |          |               |                                 |
| IC2701                                   | VH1TPA3100D-1Y | AQ         |          | X             | IC TPA3100D2PHPR                |
| J501                                     | QTANJA092WJZZ  | AG         |          | X             | Terminal INPUT1                 |
| J502                                     | QTANJA093WJZZ  | AG         |          | X             | Terminal INPUT2                 |
| J503                                     | QSOCDA020WJZZ  | AC         |          | X             | Socket                          |
| L2701                                    | RC1LPA479WJZZY | AE         |          | X             | Coil                            |
| L2702                                    | RC1LPA479WJZZY | AE         |          | X             | Coil                            |
| L2703                                    | RC1LPA479WJZZY | AE         |          | X             | Coil                            |
| L2704                                    | RC1LPA479WJZZY | AE         |          | X             | Coil                            |
| LUG501                                   | QLUGHA006WJZZY | AC         |          | X             | Lug                             |
| LUG502                                   | QLUGHA006WJZZY | AC         |          | X             | Lug                             |
| LUG2701                                  | QLUGHA006WJZZY | AC         |          | X             | Lug                             |
| LUG2702                                  | QLUGHA006WJZZY | AC         |          | X             | Lug                             |
| P502                                     | QPLGNA347WJZZY | AD         |          | X             | Plug 13pin                      |
| P2703                                    | QPLGNA173WJZZY | AD         |          | X             | Plug 4pin (SP)                  |
| P2704                                    | QCNCMA250WJZZ  | AE         |          | X             | Connector 23pin                 |
| Q501                                     | VS2SA1530AR-1Y | AB         |          | X             | Transistor 2SA1530A-T112-1R     |
| Q502                                     | VS2SC2735/-1Y  | AB         |          | X             | Transistor 2SC2735JC21TL        |
| Q503                                     | VS2SA1530AR-1Y | AB         |          | X             | Transistor 2SA1530A-T112-1R     |
| Q504                                     | VS2SC2735/-1Y  | AB         |          | X             | Transistor 2SC2735JC21TL        |
| Q505                                     | VS2SA1530AR-1Y | AB         |          | X             | Transistor 2SA1530A-T112-1R     |
| Q506                                     | VS2SC2735/-1Y  | AB         |          | X             | Transistor 2SC2735JC21TL        |
| Q507                                     | VSDTC614TK+-1Y | AB         |          | X             | Transistor DTC614TKT146         |
| Q508                                     | VSDTC614TK+-1Y | AB         |          | X             | Transistor DTC614TKT146         |
| Q509                                     | VS2SA1530AR-1Y | AB         |          | X             | Transistor 2SA1530A-T112-1R     |
| R501                                     | VRS-TQ2BD750JY | AA         |          | X             | Resistor 75 1/8W Metal Oxide    |
| R502                                     | VRS-CY1JF102JY | AA         |          | X             | Resistor 1k 1/16W Metal Oxide   |
| R503                                     | VRS-TQ2BD750JY | AA         |          | X             | Resistor 75 1/8W Metal Oxide    |
| R504                                     | VRS-CY1JF102JY | AA         |          | X             | Resistor 1k 1/16W Metal Oxide   |
| R505                                     | VRS-TQ2BD750JY | AA         |          | X             | Resistor 75 1/8W Metal Oxide    |
| R506                                     | VRS-CY1JF102JY | AA         |          | X             | Resistor 1k 1/16W Metal Oxide   |
| R507                                     | VRS-CY1JF221JY | AA         |          | X             | Resistor 220 1/16W Metal Oxide  |
| R508                                     | VRS-CY1JF104JY | AA         |          | X             | Resistor 100k 1/16W Metal Oxide |
| R509                                     | VRS-CY1JF221JY | AA         |          | X             | Resistor 220 1/16W Metal Oxide  |
| R510                                     | VRS-CY1JF104JY | AA         |          | X             | Resistor 100k 1/16W Metal Oxide |
| R511                                     | VRS-TQ2BD750JY | AA         |          | X             | Resistor 75 1/8W Metal Oxide    |
| R512                                     | VRS-CY1JF221JY | AA         |          | X             | Resistor 220 1/16W Metal Oxide  |
| R513                                     | VRS-CY1JF104JY | AA         |          | X             | Resistor 100k 1/16W Metal Oxide |
| R514                                     | VRS-TQ2BD750JY | AA         |          | X             | Resistor 75 1/8W Metal Oxide    |
| R515                                     | VRS-CY1JF221JY | AA         |          | X             | Resistor 220 1/16W Metal Oxide  |
| R516                                     | VRS-CY1JF104JY | AA         |          | X             | Resistor 100k 1/16W Metal Oxide |
| R517                                     | VRS-TQ2BD750JY | AA         |          | X             | Resistor 75 1/8W Metal Oxide    |
| R518                                     | VRS-CY1JF102JY | AA         |          | X             | Resistor 1k 1/16W Metal Oxide   |
| R519                                     | VRS-TQ2BD750JY | AA         |          | X             | Resistor 75 1/8W Metal Oxide    |
| R520                                     | VRS-CY1JF102JY | AA         |          | X             | Resistor 1k 1/16W Metal Oxide   |
| R521                                     | VRS-CY1JF221JY | AA         |          | X             | Resistor 220 1/16W Metal Oxide  |
| R522                                     | VRS-CY1JF104JY | AA         |          | X             | Resistor 100k 1/16W Metal Oxide |
| R523                                     | VRS-CY1JF221JY | AA         |          | X             | Resistor 220 1/16W Metal Oxide  |
| R524                                     | VRS-CY1JF104JY | AA         |          | X             | Resistor 100k 1/16W Metal Oxide |
| R525                                     | VRS-TQ2BD750JY | AA         |          | X             | Resistor 75 1/8W Metal Oxide    |
| R526                                     | VRS-CY1JF221JY | AA         |          | X             | Resistor 220 1/16W Metal Oxide  |
| R527                                     | VRS-CY1JF104JY | AA         |          | X             | Resistor 100k 1/16W Metal Oxide |
| R528                                     | VRS-CY1JF104JY | AA         |          | X             | Resistor 100k 1/16W Metal Oxide |
| R529                                     | VRS-CY1JF221JY | AA         |          | X             | Resistor 220 1/16W Metal Oxide  |
| R530                                     | VRS-TQ2BD750JY | AA         |          | X             | Resistor 75 1/8W Metal Oxide    |
| R531                                     | VRS-CY1JF102JY | AA         |          | X             | Resistor 1k 1/16W Metal Oxide   |
| R532                                     | VRS-TQ2BD750JY | AA         |          | X             | Resistor 75 1/8W Metal Oxide    |
| R533                                     | VRS-CY1JF274JY | AA         |          | X             | Resistor 270k 1/16W Metal Oxide |
| R534                                     | VRS-CY1JF103JY | AA         |          | X             | Resistor 10k 1/16W Metal Oxide  |
| R535                                     | VRS-TQ2BD750JY | AA         |          | X             | Resistor 75 1/8W Metal Oxide    |
| R536                                     | VRS-CY1JF101JY | AA         |          | X             | Resistor 100 1/16W Metal Oxide  |
| R537                                     | VRS-CY1JF101JY | AA         |          | X             | Resistor 100 1/16W Metal Oxide  |
| R538                                     | VRS-CY1JF101JY | AA         |          | X             | Resistor 100 1/16W Metal Oxide  |
| R539                                     | VRS-CY1JF101JY | AA         |          | X             | Resistor 100 1/16W Metal Oxide  |
| R540                                     | VRS-CY1JF101JY | AA         |          | X             | Resistor 100 1/16W Metal Oxide  |
| R541                                     | VRS-CY1JF101JY | AA         |          | X             | Resistor 100 1/16W Metal Oxide  |
| R542                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R548                                     | VRS-CY1JF220JY | AA         |          | X             | Resistor 22 1/16W Metal Oxide   |
| R549                                     | VRS-CY1JF220JY | AA         |          | X             | Resistor 22 1/16W Metal Oxide   |
| R550                                     | VRS-CY1JF220JY | AA         |          | X             | Resistor 22 1/16W Metal Oxide   |
| R554                                     | VRS-CY1JF220JY | AA         |          | X             | Resistor 22 1/16W Metal Oxide   |
| R555                                     | VRS-CY1JF220JY | AA         |          | X             | Resistor 22 1/16W Metal Oxide   |
| R556                                     | VRS-CY1JF220JY | AA         |          | X             | Resistor 22 1/16W Metal Oxide   |
| R557                                     | VRS-CY1JF101JY | AA         |          | X             | Resistor 100 1/16W Metal Oxide  |
| R558                                     | VRS-CY1JF101JY | AA         |          | X             | Resistor 100 1/16W Metal Oxide  |
| R559                                     | VRS-CJ1JF470JY | AA         |          | X             | Resistor 47 1/16W Metal Oxide   |
| R561                                     | VRS-CY1JF223JY | AA         |          | X             | Resistor 22k 1/16W Metal Oxide  |
| R562                                     | VRS-CY1JF101JY | AA         |          | X             | Resistor 100 1/16W Metal Oxide  |
| R563                                     | VRS-CY1JF223JY | AA         |          | X             | Resistor 22k 1/16W Metal Oxide  |
| R564                                     | VRS-CY1JF101JY | AA         |          | X             | Resistor 100 1/16W Metal Oxide  |
| R565                                     | VRS-CY1JF101JY | AA         |          | X             | Resistor 100 1/16W Metal Oxide  |
| R566                                     | VRS-CY1JF223JY | AA         |          | X             | Resistor 22k 1/16W Metal Oxide  |
| R567                                     | VRS-CY1JF101JY | AA         |          | X             | Resistor 100 1/16W Metal Oxide  |
| R568                                     | VRS-CY1JF223JY | AA         |          | X             | Resistor 22k 1/16W Metal Oxide  |
| R570                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R571                                     | VRS-CY1JF122JY | AA         |          | X             | Resistor 1.2k 1/16W Metal Oxide |

| NO.                                      | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                     |
|------------------------------------------|----------------|------------|----------|---------------|---------------------------------|
| <b>[4] DUNTKD935FE10 (TERMINAL Unit)</b> |                |            |          |               |                                 |
| R572                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R573                                     | VRS-TV1JD331JY | AB         |          | X             | Resistor 330 1/16W Metal Oxide  |
| R574                                     | VRS-CY1JF390JY | AA         |          | X             | Resistor 39 1/16W Metal Oxide   |
| R576                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R577                                     | VRS-CY1JF122JY | AA         |          | X             | Resistor 1.2k 1/16W Metal Oxide |
| R578                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R579                                     | VRS-TV1JD331JY | AB         |          | X             | Resistor 330 1/16W Metal Oxide  |
| R580                                     | VRS-CY1JF390JY | AA         |          | X             | Resistor 39 1/16W Metal Oxide   |
| R582                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R583                                     | VRS-CY1JF122JY | AA         |          | X             | Resistor 1.2k 1/16W Metal Oxide |
| R584                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R585                                     | VRS-TV1JD331JY | AB         |          | X             | Resistor 330 1/16W Metal Oxide  |
| R586                                     | VRS-CY1JF390JY | AA         |          | X             | Resistor 39 1/16W Metal Oxide   |
| R587                                     | VRS-CY1JF561JY | AA         |          | X             | Resistor 560 1/16W Metal Oxide  |
| R588                                     | VRS-CY1JF561JY | AA         |          | X             | Resistor 560 1/16W Metal Oxide  |
| R589                                     | VRS-CY1JF564JY | AA         |          | X             | Resistor 560k 1/16W Metal Oxide |
| R590                                     | VRS-CY1JF564JY | AA         |          | X             | Resistor 560k 1/16W Metal Oxide |
| R591                                     | VRS-CJ1JF102JY | AA         |          | X             | Resistor 1k 1/16W Metal Oxide   |
| R592                                     | VRS-CY1JF473JY | AA         |          | X             | Resistor 47k 1/16W Metal Oxide  |
| R593                                     | VRS-CY1JF473JY | AA         |          | X             | Resistor 47k 1/16W Metal Oxide  |
| R594                                     | VRS-CY1JF332JY | AA         |          | X             | Resistor 3.3k 1/16W Metal Oxide |
| R604                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R611                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R612                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R613                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R614                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R615                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R616                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R617                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R618                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R619                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| R2701                                    | VRS-CY1JF104JY | AA         |          | X             | Resistor 100k 1/16W Metal Oxide |
| R2702                                    | VRS-CY1JF104JY | AA         |          | X             | Resistor 100k 1/16W Metal Oxide |
| R2705                                    | VRS-CY1JF104JY | AA         |          | X             | Resistor 100k 1/16W Metal Oxide |
| R2706                                    | VRS-CY1JF104JY | AA         |          | X             | Resistor 100k 1/16W Metal Oxide |
| R2713                                    | VRS-TQ2EF220JY | AA         |          | X             | Resistor 22 1/4W Metal Oxide    |
| R2714                                    | VRS-TQ2EF220JY | AA         |          | X             | Resistor 22 1/4W Metal Oxide    |
| R2722                                    | VRS-TQ2EF220JY | AA         |          | X             | Resistor 22 1/4W Metal Oxide    |
| R2723                                    | VRS-TQ2EF220JY | AA         |          | X             | Resistor 22 1/4W Metal Oxide    |
| R2724                                    | VRS-CY1JF220JY | AA         |          | X             | Resistor 22 1/16W Metal Oxide   |
| SC501                                    | QCNCMA250WJZZ  | AE         |          | X             | Connector 23pin                 |
| SC502                                    | QCNCMA250WJZZ  | AE         |          | X             | Connector 23pin                 |
| <b>[5] DUNTKD910FE02 (KEY Unit)</b>      |                |            |          |               |                                 |
| D151                                     | RH-EX0646GEZZY | AA         |          | X             | Zener Diode MTZJT-7215B         |
| D152                                     | RH-EX0646GEZZY | AA         |          | X             | Zener Diode MTZJT-7215B         |
| D155                                     | RH-EX0646GEZZY | AA         |          | X             | Zener Diode MTZJT-7215B         |
| P151                                     | QPLGNA058WJZZ  | AC         |          | X             | Plug 4pin (KM)                  |
| R151                                     | VRD-RA2BE822JY | AA         |          | X             | Resistor 8.2k 1/8W Carbon       |
| R152                                     | VRD-RA2BE123JY | AA         |          | X             | Resistor 12k 1/8W Carbon        |
| R153                                     | VRD-RA2BE822JY | AA         |          | X             | Resistor 8.2k 1/8W Carbon       |
| S151                                     | QSW-K0003AJZZ+ | AB         |          | X             | Switch CH-UP                    |
| S152                                     | QSW-K0003AJZZ+ | AB         |          | X             | Switch CH-DOWN                  |
| S153                                     | QSW-K0003AJZZ+ | AB         |          | X             | Switch CH-INPUT                 |
| S154                                     | QSW-K0003AJZZ+ | AB         |          | X             | Switch VOL-UP                   |
| S155                                     | QSW-K0003AJZZ+ | AB         |          | X             | Switch VOL-DOWN                 |
| S157                                     | QSW-K0003AJZZ+ | AB         |          | X             | Switch STANDBY                  |
| <b>[6] DUNTKD909FE02 (R/C, LED Unit)</b> |                |            |          |               |                                 |
| C102                                     | VCKYTV1CF225ZY | AB         |          | X             | Capacitor 2.2 16V Ceramic       |
| C104                                     | VCEASX1CN106MY | AC         |          | X             | Capacitor 10 16V Electrolytic   |
| C105                                     | VCKYCY1HF103ZY | AA         |          | X             | Capacitor 0.01 50V Ceramic      |
| C107                                     | VCEASY1CN107MY | AC         |          | X             | Capacitor 100 16V Electrolytic  |
| D101                                     | RH-EXA092WJZZY | AB         |          | X             | Zener Diode UDZSTE-1712B, 12V   |
| D103                                     | RH-PX0421CEZZY | AD         |          | X             | Diode CL-165HR/YG-D-T, YOYAKU   |
| D114                                     | RH-PX0421CEZZY | AD         |          | X             | Diode CL-165HR/YG-D-T, YOYAKU   |
| D115                                     | RH-PX0421CEZZY | AD         |          | X             | Diode CL-165HR/YG-D-T, YOYAKU   |
| IC101                                    | VHiTPS850+-1Y  | AG         |          | X             | IC TPS850                       |
| P101                                     | QPLGNA333WJZZY | AD         |          | X             | Plug 13pin (RA)                 |
| Q102                                     | VS2SC3928AR-1Y | AB         |          | X             | Transistor 2SC3928A-T112-1R     |
| Q106                                     | VS2SC3928AR-1Y | AB         |          | X             | Transistor 2SC3928A-T112-1R     |
| Q107                                     | VS2SC3928AR-1Y | AB         |          | X             | Transistor 2SC3928A-T112-1R     |
| R101                                     | VRS-CY1JF101JY | AA         |          | X             | Resistor 100 1/16W Metal Oxide  |
| R104                                     | VRS-CY1JF273JY | AA         |          | X             | Resistor 27k 1/16W Metal Oxide  |
| R108                                     | VRS-CY1JF161JY | AA         |          | X             | Resistor 160 1/16W Metal Oxide  |
| R121                                     | VRS-CY1JF821JY | AA         |          | X             | Resistor 820 1/16W Metal Oxide  |
| R122                                     | VRS-CY1JF161JY | AA         |          | X             | Resistor 160 1/16W Metal Oxide  |
| R123                                     | VRS-CJ1JF103JY | AA         |          | X             | Resistor 10k 1/16W Metal Oxide  |
| R124                                     | VRS-CJ1JF103JY | AA         |          | X             | Resistor 10k 1/16W Metal Oxide  |
| R135                                     | VRS-CY1JF000JY | AA         |          | X             | Resistor 0 1/16W Metal Oxide    |
| RMC101                                   | RRMCA053WJZZ   | AE         |          | X             | Remote Receiver                 |
| SLD101                                   | PSLDM4646CEFW  | AD         |          | X             | Shield                          |

| NO.                                          | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                    |
|----------------------------------------------|----------------|------------|----------|---------------|--------------------------------|
| <b>[7] DUNTGD888WE01 (ILLUMINATION Unit)</b> |                |            |          |               |                                |
| D901                                         | RH-PXA137WJQZY | AG         |          | X             | Diode Blue, TV POW             |
| P901                                         | QPLGNA324WJZZY | AC         |          | X             | Plug 4pin                      |
| Q901                                         | VS2SC3928AR-1Y | AB         |          | X             | Transistor 2SC3928A-T112-1R    |
| R901                                         | VRS-CY1JF273JY | AA         |          | X             | Resistor 27k 1/16W Metal Oxide |
| R902                                         | VRS-CY1JF330JY | AA         |          | X             | Resistor 33 1/16W Metal Oxide  |
| <b>[8] DUNTKE046FE02 (FRC Unit)</b>          |                |            |          |               |                                |
| C4801                                        | RC-KZA521WJQZY | AA         |          | J             | Capacitor 0.1 16V Ceramic      |
| C4802                                        | VCKYCY1HB152KY | AB         |          | J             | Capacitor 1500p 50V Ceramic    |
| C4803                                        | VCKYCY1EB822KY | AA         |          | J             | Capacitor 8200p 25V Ceramic    |
| C4804                                        | VCAAPE1CJ686MY | AE         |          | J             | Capacitor 68 16V Electrolytic  |
| C4805                                        | VCAAPE1CJ686MY | AE         |          | J             | Capacitor 68 16V Electrolytic  |
| C4806                                        | VCAAPE1CJ686MY | AE         |          | J             | Capacitor 68 16V Electrolytic  |
| C4807                                        | VCAAPE1CJ686MY | AE         |          | J             | Capacitor 68 16V Electrolytic  |
| C4808                                        | VCKYCY1HB153KY | AA         |          | J             | Capacitor 0.015 50V Ceramic    |
| C4809                                        | VCKYCY1CB104KY | AB         |          | J             | Capacitor 0.1 16V Ceramic      |
| C4810                                        | VCKYCY1AB105KY | AA         |          | J             | Capacitor 1.0 10V Ceramic      |
| C4811                                        | VCKYCY1AB105KY | AA         |          | J             | Capacitor 1.0 10V Ceramic      |
| C4812                                        | VCKYCY1EB822KY | AA         |          | J             | Capacitor 8200p 25V Ceramic    |
| C4813                                        | RC-KZA114WJZZY | AB         |          | J             | Capacitor 1 25V Ceramic        |
| C4814                                        | RC-KZA521WJQZY | AA         |          | J             | Capacitor 0.1 16V Ceramic      |
| C4815                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C4816                                        | RC-KZA510WJPZY | AB         |          | J             | Capacitor 10 16V Ceramic       |
| C4817                                        | VCAAPE1CJ686MY | AE         |          | J             | Capacitor 68 16V Electrolytic  |
| C4818                                        | RC-KZA510WJPZY | AB         |          | J             | Capacitor 10 16V Ceramic       |
| C4819                                        | VCKYCY1HB222KY | AB         |          | J             | Capacitor 2200p 50V Ceramic    |
| C4820                                        | RC-KZA510WJPZY | AB         |          | J             | Capacitor 10 16V Ceramic       |
| C4821                                        | RC-KZA510WJPZY | AB         |          | J             | Capacitor 10 16V Ceramic       |
| C4822                                        | RC-KZA510WJPZY | AB         |          | J             | Capacitor 10 16V Ceramic       |
| C4823                                        | VCKYCY1HB221KY | AA         |          | J             | Capacitor 220p 50V Ceramic     |
| C4824                                        | VCKYCY1CB104KY | AB         |          | J             | Capacitor 0.1 16V Ceramic      |
| C4825                                        | VCKYCY1AB334KY | AB         |          | J             | Capacitor 0.33 10V Ceramic     |
| C4826                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5801                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |
| C5802                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5803                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5804                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |
| C5805                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5806                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5807                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |
| C5808                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5809                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5810                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |
| C5811                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5812                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |
| C5813                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5814                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5815                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5816                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5817                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |
| C5818                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5819                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5820                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |
| C5821                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5822                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5823                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |
| C5824                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |
| C5825                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5826                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5827                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5828                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |
| C5829                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5830                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5831                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5832                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5833                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |
| C5834                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5835                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5836                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5837                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |
| C5838                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5839                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |
| C5840                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |
| C5841                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |
| C5842                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5843                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5844                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5845                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5846                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5847                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5848                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5849                                        | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic     |
| C5850                                        | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic     |
| C5851                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |
| C5852                                        | VCKYCY1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic      |

| NO.                                 | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                   |
|-------------------------------------|----------------|------------|----------|---------------|-------------------------------|
| <b>[8] DUNTKE046FE02 (FRC Unit)</b> |                |            |          |               |                               |
| C5853                               | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic    |
| C5854                               | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic    |
| C5855                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C5856                               | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic    |
| C5857                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C5858                               | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic    |
| C5859                               | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic    |
| C5860                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C5861                               | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic    |
| C5862                               | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic    |
| C5863                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C5864                               | VCCCCY1HH5R0CY | AA         |          | J             | Capacitor 5p 50V Ceramic      |
| C5865                               | VCCCCY1HH5R0CY | AA         |          | J             | Capacitor 5p 50V Ceramic      |
| C5866                               | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic    |
| C5867                               | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic    |
| C5868                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C5871                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C5872                               | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic    |
| C5873                               | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic    |
| C5874                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C5875                               | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic    |
| C5876                               | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic    |
| C5877                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C5878                               | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic    |
| C5879                               | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic    |
| C5880                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C5881                               | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic    |
| C5882                               | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic    |
| C5883                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C5884                               | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic    |
| C5885                               | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic    |
| C5886                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C5887                               | VCKYCY1HB103KY | AA         |          | J             | Capacitor 0.01 50V Ceramic    |
| C5888                               | VCCCCZ1HH101JY | AB         |          | J             | Capacitor 100p 50V Ceramic    |
| C5889                               | RC-KZA510WJPZY | AB         |          | J             | Capacitor 10 16V Ceramic      |
| C5890                               | VCAAPE1CJ686MY | AE         |          | J             | Capacitor 68 16V Electrolytic |
| C5891                               | RC-KZA510WJPZY | AB         |          | J             | Capacitor 10 16V Ceramic      |
| C5892                               | VCAAPE1CJ686MY | AE         |          | J             | Capacitor 68 16V Electrolytic |
| C5893                               | RC-KZA510WJPZY | AB         |          | J             | Capacitor 10 16V Ceramic      |
| C5894                               | VCAAPE1CJ686MY | AE         |          | J             | Capacitor 68 16V Electrolytic |
| C6001                               | VCKYCZ1AB105KY | AA         |          | J             | Capacitor 1.0 10V Ceramic     |
| C6002                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6003                               | VCAAPE1CJ686MY | AE         |          | J             | Capacitor 68 16V Electrolytic |
| C6004                               | RC-KZA510WJPZY | AB         |          | J             | Capacitor 10 16V Ceramic      |
| C6005                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6006                               | VCCCCZ1HH102JY | AA         |          | J             | Capacitor 1000p 50V Ceramic   |
| C6007                               | RC-KZA041WJZZY | AC         |          | J             | Capacitor 10 10V Ceramic      |
| C6008                               | VCKYCZ1AB105KY | AA         |          | J             | Capacitor 1.0 10V Ceramic     |
| C6009                               | VCAAPE1CJ686MY | AE         |          | J             | Capacitor 68 16V Electrolytic |
| C6010                               | RC-KZA510WJPZY | AB         |          | J             | Capacitor 10 16V Ceramic      |
| C6011                               | RC-KZA510WJPZY | AB         |          | J             | Capacitor 10 16V Ceramic      |
| C6012                               | VCKYCZ1AB105KY | AA         |          | J             | Capacitor 1.0 10V Ceramic     |
| C6013                               | VCKYCZ1AB105KY | AA         |          | J             | Capacitor 1.0 10V Ceramic     |
| C6014                               | VCAAPE1CJ686MY | AE         |          | J             | Capacitor 68 16V Electrolytic |
| C6015                               | RC-KZA510WJPZY | AB         |          | J             | Capacitor 10 16V Ceramic      |
| C6016                               | RC-KZA510WJPZY | AB         |          | J             | Capacitor 10 16V Ceramic      |
| C6017                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6018                               | VCAAPE1CJ686MY | AE         |          | J             | Capacitor 68 16V Electrolytic |
| C6019                               | RC-KZA510WJPZY | AB         |          | J             | Capacitor 10 16V Ceramic      |
| C6020                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6021                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6022                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6023                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6024                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6025                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6026                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6027                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6028                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6029                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6030                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6031                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6032                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6033                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6034                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6035                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6036                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6037                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6038                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6039                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6040                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6041                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6042                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6043                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6044                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6045                               | VCKYCZ1AB104KY | AB         |          | J             | Capacitor 0.1 10V Ceramic     |



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|-------------------------------------|------------------|------------|----------|---------------|-------------------------------|
| <b>[8] DUNTKE046FE02 (FRC Unit)</b> |                  |            |          |               |                               |
| C6360                               | VCKYCZ1AB104KY   | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6361                               | VCKYCZ1AB104KY   | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6362                               | VCKYCZ1AB104KY   | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6363                               | VCKYCZ1AB104KY   | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6364                               | VCKYCZ1AB104KY   | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6365                               | VCKYCZ1AB104KY   | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6366                               | RC-KZA510WJPZY   | AB         |          | J             | Capacitor 10 16V Ceramic      |
| C6367                               | VCKYCZ1AB104KY   | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6368                               | VCKYCZ1AB104KY   | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6369                               | VCKYCZ1AB104KY   | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6370                               | VCKYCZ1AB104KY   | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6371                               | VCKYCZ1AB104KY   | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6372                               | VCKYCZ1AB104KY   | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6373                               | VCKYCZ1AB104KY   | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6374                               | VCKYCZ1AB104KY   | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6375                               | VCKYCZ1AB104KY   | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| C6376                               | VCKYCZ1AB104KY   | AB         |          | J             | Capacitor 0.1 10V Ceramic     |
| D4801                               | RH-EX1400CEZZY   | AB         |          | J             | Zener Diode UDZSTE-1710B, 10V |
| D4802                               | VHDD1FH3+++1Y    | AD         |          | J             | Diode D1FH3                   |
| D4803                               | VHDD1FH3+++1Y    | AD         |          | J             | Diode D1FH3                   |
| D4804                               | RH-EX1400CEZZY   | AB         |          | J             | Zener Diode UDZSTE-1710B, 10V |
| FB4801                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB5801                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB5802                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB5803                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB5805                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB5806                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB5807                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB5808                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB5809                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB5810                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB5811                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB5812                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB5813                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB5814                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB5815                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB5816                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB5817                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB6001                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6002                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6003                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6004                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6005                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6006                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6007                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6008                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6009                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6011                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6211                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB6212                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB6213                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB6214                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB6215                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB6216                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB6217                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB6281                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB6282                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB6283                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB6284                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB6285                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB6286                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB6287                              | RBLN-0210TAZZY   | AB         |          | J             | Balun                         |
| FB6341                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6342                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6343                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6344                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6345                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6346                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6347                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| FB6348                              | RBLN-0207TAZZY   | AB         |          | J             | Balun                         |
| IC4801                              | VH iTPS40055-1Y  | AN         |          | J             | IC TPS40055PWPR               |
| IC4802                              | RH- iXA552WJZZY  | AH         |          | J             | IC PQ1CY1032ZPH               |
| IC4803                              | RH- iXA552WJZZY  | AH         |          | J             | IC PQ1CY1032ZPH               |
| IC4804                              | VH i PST3629N-1Y | AD         |          | J             | IC PST3629NR                  |
| IC4805                              | VH i PST3629N-1Y | AD         |          | J             | IC PST3629NR                  |
| IC5801                              | RH- iXB857WJZZQ  | BP         | N        | J             | IC iXB857WJZ                  |
| IC6001                              | RH- iXB822WJQZQ  | AY         |          | J             | IC EM6A9320BI-5MG             |
| IC6002                              | RH- iXB822WJQZQ  | AY         |          | J             | IC EM6A9320BI-5MG             |
| IC6003                              | RH- iXB822WJQZQ  | AY         |          | J             | IC EM6A9320BI-5MG             |
| IC6004                              | RH- iXA361WJZZY  | AM         |          | J             | IC LP2995MX/NOPB              |
| IC6211                              | VH i TLVD1023-1Q | AS         |          | J             | IC TLVD1023                   |
| IC6212                              | VH i TLVD1023-1Q | AS         |          | J             | IC TLVD1023                   |
| IC6281                              | VH i TLVD104S-1Q | AN         | N        | J             | IC TLVD104S                   |
| IC6282                              | VH i TLVD104S-1Q | AN         | N        | J             | IC TLVD104S                   |
| IC6341                              | RH- iXC029WJQZQ  | BA         |          | J             | IC iXC029WJ                   |

| NO.                                 | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                         |
|-------------------------------------|----------------|------------|----------|---------------|-------------------------------------|
| <b>[8] DUNTKE046FE02 (FRC Unit)</b> |                |            |          |               |                                     |
| IC6342                              | RH-IXC030WJN2Y | AQ         | N        | J             | IC IXC030WJ                         |
| L4801                               | RCiLCA029WJZZY | AD         |          | J             | Coil                                |
| L4802                               | RCiLP0295TAZZY |            |          | J             | Coil                                |
| L4803                               | RCiLP0297TAZZY | AD         |          | J             | Coil                                |
| L6211                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6212                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6213                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6214                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6215                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6216                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6217                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6218                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6219                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6220                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6221                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6222                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6223                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6224                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6225                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6226                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6227                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6228                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6229                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6230                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6231                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6232                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6233                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6234                               | RCiLFA071WJZZY | AD         |          | J             | Coil                                |
| L6341                               | VPCEM220M1R7NY | AC         |          | J             | Coil Peaking 22μH                   |
| LUG4801                             | QLUGHA009WJZZY | AC         |          | J             | Lug                                 |
| LUG4802                             | QLUGHA009WJZZY | AC         |          | J             | Lug                                 |
| LUG4803                             | QLUGHA009WJZZY | AC         |          | J             | Lug                                 |
| LUG4804                             | QLUGHA009WJZZY | AC         |          | J             | Lug                                 |
| P4801                               | QPLGNA412WJZZY | AG         |          | J             | Plug 20pin                          |
| P4802                               | QPLGNA345WJZZY | AD         |          | J             | Plug 11pin                          |
| P5801                               | QPLGNA324WJZZY | AC         |          | J             | Plug 4pin                           |
| P5802                               | QPLGN0057CEZZY | AD         |          | J             | Plug 7pin                           |
| P6341                               | QPLGN0060CEZZY | AE         |          | J             | Plug 10pin                          |
| Q4801                               | VSRT1N144U/-1Y | AB         |          | J             | Transistor RT1N144U-T111-1          |
| Q4802                               | VS2SC3928AR-1Y | AB         |          | J             | Transistor 2SC3928A-T112-1R         |
| Q4803                               | VSSP8K4++++-1Y | AF         |          | J             | Transistor SP8K4TB                  |
| Q6341                               | VSRT1N144U/-1Y | AB         |          | J             | Transistor RT1N144U-T111-1          |
| R4801                               | VRS-CZ1JF473FY | AA         |          | J             | Resistor 47k 1/16W Metal Oxide      |
| R4802                               | VRS-CZ1JF224JY | AA         |          | J             | Resistor 220k 1/16W Metal Oxide     |
| R4803                               | VRS-CZ1JF103FY | AB         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R4804                               | VRS-CY1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R4805                               | VRS-CY1JF102JY | AA         |          | J             | Resistor 1k 1/16W Metal Oxide       |
| R4806                               | VRS-CY1JF102FY | AA         |          | J             | Resistor 1k 1/16W Metal Oxide       |
| R4807                               | VRS-CY1JF102FY | AA         |          | J             | Resistor 1k 1/16W Metal Oxide       |
| R4808                               | VRS-CY1JF102JY | AA         |          | J             | Resistor 1k 1/16W Metal Oxide       |
| R4809                               | VRS-CY1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R4810                               | VRS-CY1JF332FY | AA         |          | J             | Resistor 3.3k 1/16W Metal Oxide     |
| R4811                               | VRS-CY1JF102FY | AA         |          | J             | Resistor 1k 1/16W Metal Oxide       |
| R4812                               | VRS-CY1JF332FY | AA         |          | J             | Resistor 3.3k 1/16W Metal Oxide     |
| R4813                               | VRS-CY1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R4814                               | VRS-CY1JF000JY | AA         |          | J             | Resistor 0 1/16W Metal Oxide        |
| R4815                               | VRS-CY1JF100JY | AA         |          | J             | Resistor 100 1/16W Metal Oxide      |
| R4816                               | VRS-CY1JF100JY | AA         |          | J             | Resistor 100 1/16W Metal Oxide      |
| R4817                               | VRS-CY1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R4818                               | VRS-CY1JF101JY | AA         |          | J             | Resistor 100 1/16W Metal Oxide      |
| R4819                               | VRS-CZ1JF682FY | AA         |          | J             | Resistor 6.8k 1/16W Metal Oxide     |
| R4820                               | VRS-CZ1JF221JY | AA         |          | J             | Resistor 220 1/16W Metal Oxide      |
| R4821                               | VRS-CZ1JF123FY | AA         |          | J             | Resistor 12k 1/16W Metal Oxide      |
| R4822                               | VRS-CZ1JF822JY | AA         |          | J             | Resistor 8.2k 1/16W Metal Oxide     |
| R4823                               | VRS-CZ1JF472JY | AA         |          | J             | Resistor 4.7k 1/16W Metal Oxide     |
| R4824                               | VRS-CZ1JF103FY | AB         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R4825                               | VRS-CZ1JF103FY | AB         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R4826                               | VRS-CZ1JF3R3JY | AA         |          | J             | Resistor 3.3 1/16W Metal Oxide      |
| R4827                               | VRS-CZ1JF223FY | AA         |          | J             | Resistor 22k 1/16W Metal Oxide      |
| R4828                               | VRS-CZ1JF153FY | AA         |          | J             | Resistor 15k 1/16W Metal Oxide      |
| R4829                               | VRS-CY1JF101JY | AA         |          | J             | Resistor 100 1/16W Metal Oxide      |
| R4830                               | VRS-CY1JF000JY | AA         |          | J             | Resistor 0 1/16W Metal Oxide        |
| R4832                               | VRS-CZ1JF473FY | AA         |          | J             | Resistor 47k 1/16W Metal Oxide      |
| R5801                               | VRS-CZ1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R5802                               | VRS-CZ1JF330JY | AA         |          | J             | Resistor 33 1/16W Metal Oxide       |
| R5803                               | VRS-CZ1JF330JY | AA         |          | J             | Resistor 33 1/16W Metal Oxide       |
| R5804                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R5805                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R5806                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R5807                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R5808                               | VRS-CZ1JF330JY | AA         |          | J             | Resistor 33 1/16W Metal Oxide       |
| R5809                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R5810                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R5811                               | VRS-CZ1JF330JY | AA         |          | J             | Resistor 33 1/16W Metal Oxide       |
| R5812                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |

| NO.                          | PARTS CODE     | PRICE<br>RANK | NEW<br>MARK | PART<br>DELIVERY |              | DESCRIPTION             |
|------------------------------|----------------|---------------|-------------|------------------|--------------|-------------------------|
| [8] DUNTKE046FE02 (FRC Unit) |                |               |             |                  |              |                         |
| R5813                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5814                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5815                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5816                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5817                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5818                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5819                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5820                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5821                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5822                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5823                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5824                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5825                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5826                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5827                        | VRS-CZ1JF103JY | AA            |             | J                | Resistor 10k | 1/16W Metal Oxide       |
| R5828                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5829                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5830                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5831                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5832                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5833                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5834                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5835                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5836                        | VRS-CY1JF000JY | AA            |             | J                | Resistor 0   | 1/16W Metal Oxide       |
| R5837                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5838                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5839                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5840                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5841                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5842                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5843                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5844                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5845                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5846                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5847                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5848                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5849                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5850                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5851                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5852                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5853                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5854                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5855                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5856                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5857                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5858                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5859                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5860                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5861                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5862                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5863                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5864                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5865                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5866                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5867                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5868                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5869                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5870                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5871                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5872                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5873                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5874                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5875                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5876                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5877                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5878                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5879                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5880                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5881                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5882                        | VRS-CY1JF000JY | AA            |             | J                | Resistor 0   | 1/16W Metal Oxide       |
| R5883                        | VRK-SB1FF330JY | AA            |             | J                | Resistor 33  | 1/32W Metal Composition |
| R5884                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5885                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5886                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5887                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5888                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5889                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5890                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5891                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5892                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5893                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5894                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5895                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5896                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |
| R5897                        | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33  | 1/16W Metal Oxide       |

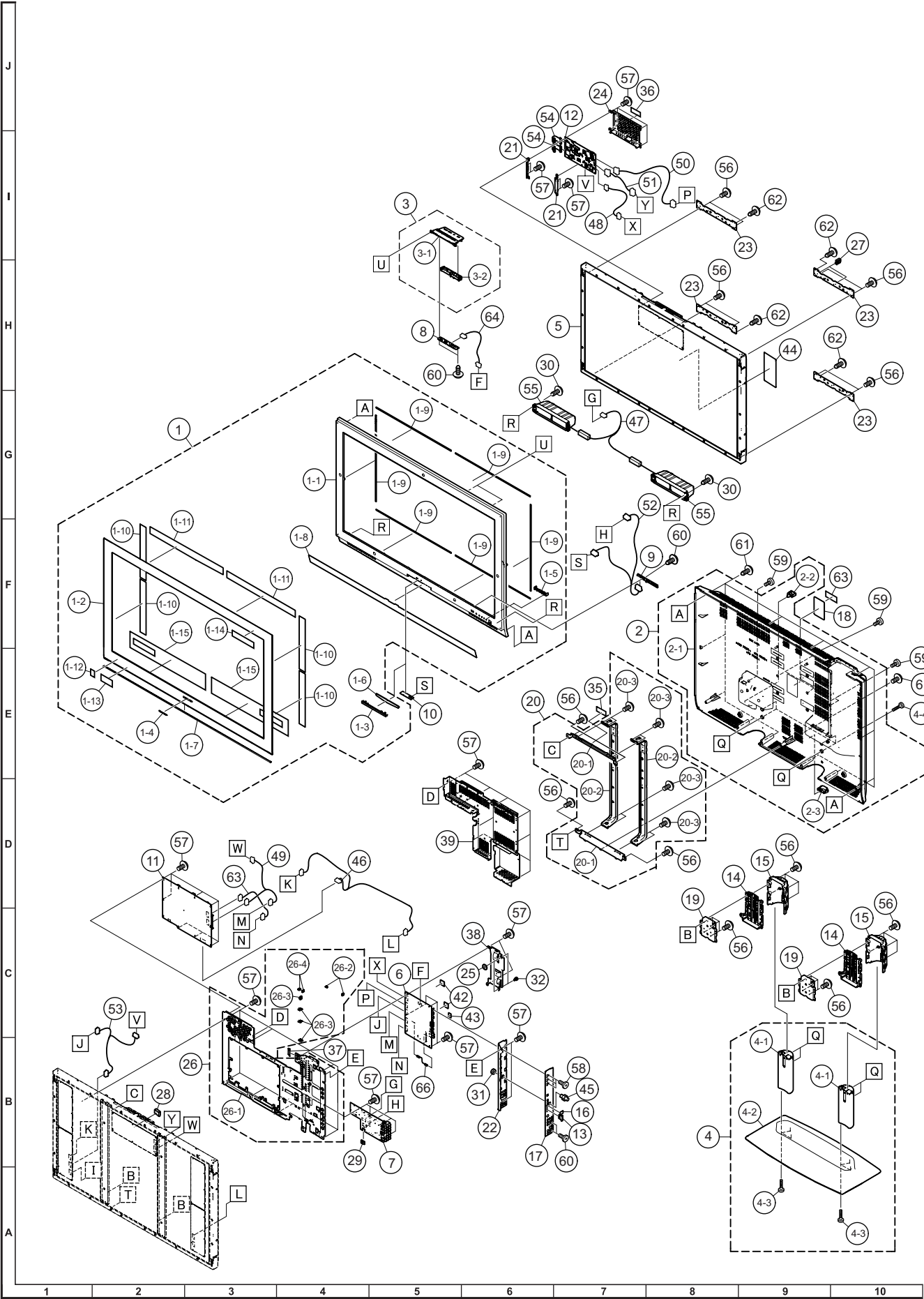


| NO.                                 | PARTS CODE     | PRICE<br>RANK | NEW<br>MARK | PART<br>DELIVERY | DESCRIPTION                         |
|-------------------------------------|----------------|---------------|-------------|------------------|-------------------------------------|
| <b>[8] DUNTKE046FE02 (FRC Unit)</b> |                |               |             |                  |                                     |
| R6056                               | VRK-SB1FF680JY | AA            |             | J                | Resistor 68 1/32W Metal Composition |
| R6057                               | VRK-SB1FF330JY | AA            |             | J                | Resistor 33 1/32W Metal Composition |
| R6058                               | VRK-SB1FF680JY | AA            |             | J                | Resistor 68 1/32W Metal Composition |
| R6059                               | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33 1/16W Metal Oxide       |
| R6060                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6061                               | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33 1/16W Metal Oxide       |
| R6062                               | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33 1/16W Metal Oxide       |
| R6063                               | VRK-SB1FF330JY | AA            |             | J                | Resistor 33 1/32W Metal Composition |
| R6064                               | VRK-SB1FF330JY | AA            |             | J                | Resistor 33 1/32W Metal Composition |
| R6065                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6066                               | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33 1/16W Metal Oxide       |
| R6067                               | VRK-SB1FF680JY | AA            |             | J                | Resistor 68 1/32W Metal Composition |
| R6068                               | VRK-SB1FF330JY | AA            |             | J                | Resistor 33 1/32W Metal Composition |
| R6069                               | VRK-SB1FF680JY | AA            |             | J                | Resistor 68 1/32W Metal Composition |
| R6070                               | VRK-SB1FF330JY | AA            |             | J                | Resistor 33 1/32W Metal Composition |
| R6071                               | VRK-SB1FF680JY | AA            |             | J                | Resistor 68 1/32W Metal Composition |
| R6072                               | VRK-SB1FF330JY | AA            |             | J                | Resistor 33 1/32W Metal Composition |
| R6073                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6074                               | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33 1/16W Metal Oxide       |
| R6075                               | VRK-SB1FF680JY | AA            |             | J                | Resistor 68 1/32W Metal Composition |
| R6076                               | VRK-SB1FF330JY | AA            |             | J                | Resistor 33 1/32W Metal Composition |
| R6077                               | VRK-SB1FF680JY | AA            |             | J                | Resistor 68 1/32W Metal Composition |
| R6078                               | VRK-SB1FF330JY | AA            |             | J                | Resistor 33 1/32W Metal Composition |
| R6079                               | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33 1/16W Metal Oxide       |
| R6080                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6081                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6082                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6083                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6084                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6085                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6086                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6087                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6088                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6089                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6090                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6091                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6092                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6093                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6094                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6095                               | VRK-SB1FF330JY | AA            |             | J                | Resistor 33 1/32W Metal Composition |
| R6096                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6097                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6098                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6099                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6100                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6101                               | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33 1/16W Metal Oxide       |
| R6102                               | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33 1/16W Metal Oxide       |
| R6103                               | VRK-SB1FF330JY | AA            |             | J                | Resistor 33 1/32W Metal Composition |
| R6104                               | VRK-SB1FF330JY | AA            |             | J                | Resistor 33 1/32W Metal Composition |
| R6105                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6106                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6107                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6108                               | VRK-SB1FF330JY | AA            |             | J                | Resistor 33 1/32W Metal Composition |
| R6109                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6110                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6111                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6112                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6113                               | VRS-CZ1JF680JY | AB            |             | J                | Resistor 68 1/16W Metal Oxide       |
| R6114                               | VRS-CZ1JF330JY | AA            |             | J                | Resistor 33 1/16W Metal Oxide       |
| R6115                               | VRK-SB1FF330JY | AA            |             | J                | Resistor 33 1/32W Metal Composition |
| R6116                               | VRK-SB1FF330JY | AA            |             | J                | Resistor 33 1/32W Metal Composition |
| R6117                               | VRK-SB1FF330JY | AA            |             | J                | Resistor 33 1/32W Metal Composition |
| R6118                               | VRK-SB1FF330JY | AA            |             | J                | Resistor                            |



| NO.                                 | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                         |
|-------------------------------------|----------------|------------|----------|---------------|-------------------------------------|
| <b>[8] DUNTKE046FE02 (FRC Unit)</b> |                |            |          |               |                                     |
| R6332                               | VRS-CZ1JF330JY | AA         |          | J             | Resistor 33 1/16W Metal Oxide       |
| R6335                               | VRS-CY1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R6341                               | VRS-CY1JF330JY | AA         |          | J             | Resistor 33 1/16W Metal Oxide       |
| R6342                               | VRS-CY1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R6343                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R6344                               | VRS-CY1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R6345                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R6346                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R6347                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R6348                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R6349                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R6350                               | VRS-CY1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R6351                               | VRS-CY1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R6352                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R6353                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R6354                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R6355                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R6356                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R6357                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R6358                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R6359                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R6360                               | VRK-SB1FF330JY | AA         |          | J             | Resistor 33 1/32W Metal Composition |
| R6361                               | VRS-CY1JF330JY | AA         |          | J             | Resistor 33 1/16W Metal Oxide       |
| R6362                               | VRS-CY1JF330JY | AA         |          | J             | Resistor 33 1/16W Metal Oxide       |
| R6363                               | VRS-CY1JF330JY | AA         |          | J             | Resistor 33 1/16W Metal Oxide       |
| R6364                               | VRS-CY1JF330JY | AA         |          | J             | Resistor 33 1/16W Metal Oxide       |
| R6366                               | VRS-CY1JF000JY | AA         |          | J             | Resistor 0 1/16W Metal Oxide        |
| R6367                               | VRS-CY1JF000JY | AA         |          | J             | Resistor 0 1/16W Metal Oxide        |
| R6373                               | VRS-CY1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R6374                               | VRS-CY1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R6375                               | VRS-CY1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R6376                               | VRS-CY1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R6377                               | VRS-CY1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R6379                               | VRS-CZ1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R6380                               | VRS-CZ1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R6383                               | VRS-CZ1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| R6384                               | VRS-CY1JF103JY | AA         |          | J             | Resistor 10k 1/16W Metal Oxide      |
| SC6211                              | QCNCWA671WJQZY |            |          | J             | Connector 41pin                     |
| SC6212                              | QCNCWA671WJQZY |            |          | J             | Connector 41pin                     |
| SC6281                              | QCNCWA671WJQZY |            |          | J             | Connector 41pin                     |
| X5801                               | RCRSCA086WJZZY | AG         |          | J             | Crystal                             |
| X6341                               | RCRUAA056WJQZY | AK         |          | J             | Crystal 33.000MHz                   |

[9] CABINET PARTS (LC-46D82U)

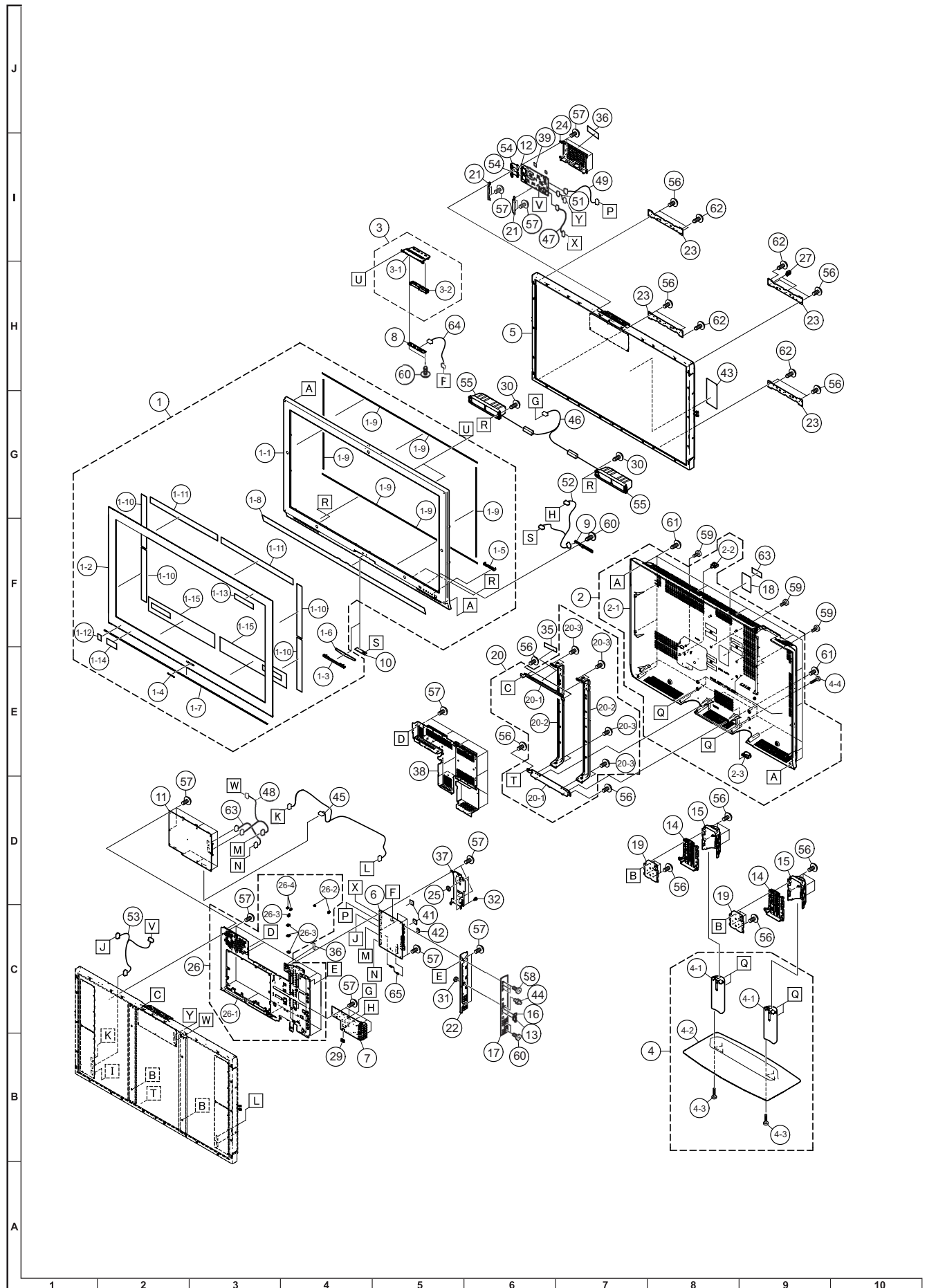




| NO.                                  | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                       |
|--------------------------------------|----------------|------------|----------|---------------|-----------------------------------|
| <b>[9] CABINET PARTS (LC-46D82U)</b> |                |            |          |               |                                   |
| 1                                    | CCABAB740WJ01  | BX         | N        | X             | Front Cabinet Ass'y               |
| 1-1                                  | -              | -          | N        | -             | Front Cabinet                     |
| 1-2                                  | -              | -          | N        | -             | Front Cover                       |
| 1-3                                  | -              | -          | N        | -             | Center Dec Cover                  |
| 1-4                                  | -              | -          | -        | -             | Badge, "SHARP"                    |
| 1-5                                  | -              | -          | N        | -             | LED Dec.                          |
| 1-6                                  | -              | -          | N        | -             | Center LED Dec                    |
| 1-7                                  | HDECSA013WJSA  | AQ         | N        | X             | Shine Trim                        |
| 1-8                                  | HPNLSA121WJSA  | BC         | N        | X             | Speaker Net                       |
| 1-9                                  | -              | -          | -        | -             | Mask Himeron, x6                  |
| 1-10                                 | PSPA7B449WJZZ  | -          | N        | X             | Cover Tape 330*40, x4             |
| 1-11                                 | PSPA7B450WJZZ  | -          | N        | X             | Cover Tape 510*40, x2             |
| 1-12                                 | TLABZA635WJZZ  | AC         | -        | J             | E-Star Label                      |
| 1-13                                 | TLABZB419WJSA  | AE         | -        | X             | Label (18P POP)                   |
| 1-14                                 | TLABZB442WJSA  | AG         | N        | X             | POP Label                         |
| 1-15                                 | PSPA7B445WJZZ  | -          | N        | -             | Cover Tape, x2                    |
| 2                                    | CCABBB068WJ01  | BP         | N        | X             | Rear Cabinet Ass'y                |
| 2-1                                  | -              | -          | N        | -             | Rear Cabinet                      |
| 2-2                                  | LHLDWA012WJKZ  | AC         | -        | J             | WH (RWC-1SL-V)                    |
| 2-3                                  | LHLDWA131WJKZ  | AE         | -        | J             | Cable Clamp                       |
| 3                                    | CCOVAB914WJ01  | AS         | -        | X             | Top Cover Ass'y                   |
| 3-1                                  | -              | -          | N        | -             | Top Cover                         |
| 3-2                                  | -              | -          | N        | -             | Button, Control                   |
| 4                                    | CDA i-A358WJ02 | BQ         | N        | X             | Stand Unit                        |
| 4-1                                  | -              | -          | -        | -             | Support Ass'y, x2                 |
| 4-2                                  | -              | -          | N        | -             | Stand Base Ass'y                  |
| 4-3                                  | -              | -          | -        | -             | Screw, x6 (for Stand Unit)        |
| 4-4                                  | -              | -          | -        | -             | Screw, x4 (to Set)                |
| 5                                    | R1LK460D3LZ2CZ | GG         | N        | J             | 46" LCD Panel Module              |
| 6                                    | DUNTKE028FM03  | -          | N        | R             | MAIN Unit                         |
| 7                                    | DUNTKD935FM10  | BG         | N        | X             | TERMINAL Unit                     |
| 8                                    | DUNTKD910FM02  | AG         | -        | X             | KEY Unit                          |
| 9                                    | DUNTKD909FM02  | AQ         | -        | X             | R/C, LED Unit                     |
| 10                                   | DUNTKD888FM01  | AH         | N        | X             | ILLUMINATION Unit                 |
| 11                                   | RDENCA205WJQZ  | BU         | -        | X             | POWER SUPPLY Unit (Unit exchange) |
| 12                                   | DUNTKE046FE02  | CC         | N        | J             | FRC Unit                          |
| 13                                   | GCOVAA678WJKA  | AE         | -        | J             | SD Cover                          |
| 14                                   | GCOVAB913WJKA  | AQ         | -        | X             | Stand ST Cover (Front), x2        |
| 15                                   | GCOVAC282WJKA  | AQ         | N        | X             | Stand ST Cover (Rear), x2         |
| 16                                   | HINDPB715WJSA  | AC         | -        | X             | Terminal Label                    |
| 17                                   | HINDPC198WJSA  | AH         | N        | X             | JACK Indication Plate             |
| 18                                   | HINDPC200WJSA  | AH         | N        | X             | Model Label                       |
| 19                                   | LANGKA819WJN1  | AN         | -        | X             | Stand Fixing Angle, x2            |
| 20                                   | CANGTA373WJ02  | BB         | -        | X             | Bridge Angle Ass'y                |
| 20-1                                 | -              | -          | N        | -             | Fixing Angle, x2 (Center)         |
| 20-2                                 | -              | -          | -        | -             | Bridge Angle, x2                  |
| 20-3                                 | XBBS740P08000  | AA         | -        | J             | Screw, x8 (for Angle Fix)         |
| 21                                   | LANGKA992WJFW  | BG         | -        | X             | FRC PWB Set Angle, x2             |
| 22                                   | LANGKB025WJFW  | AL         | N        | X             | Terminal Angle                    |
| 23                                   | LANGTA375WJFW  | AK         | -        | X             | Chassis Fixing Angle, x4          |
| 24                                   | LANGTA436WJM1  | AU         | -        | X             | FRC PWB Angle                     |
| 25                                   | LBSHZA005WJZZ  | AB         | -        | J             | Washer                            |
| 26                                   | CCHSMA354WJ01  | BB         | N        | X             | Tray Chassis Ass'y                |
| 26-1                                 | -              | -          | N        | -             | Tray Chassis                      |
| 26-2                                 | LHLDWA102WJKZ  | AB         | -        | J             | Wire Holder, x2                   |
| 26-3                                 | LHLDWA120WJKZ  | AB         | -        | J             | Wire Holder, x4                   |
| 26-4                                 | LHLDWA123WJKZ  | AB         | -        | J             | Wire Holder, x2                   |
| 27                                   | LHLDWA123WJKZ  | AB         | -        | J             | Wire Holder, x2                   |
| 28                                   | LHLDWA138WJKZ  | AC         | -        | J             | LV Wire Holder, x3                |
| 29                                   | LHLDWA150WJKZ  | AC         | -        | J             | Edge Saddle WH                    |
| 30                                   | LX-HZA003WJFN  | AC         | -        | J             | Screw, x2 (for Speaker)           |
| 31                                   | LX-NZ3047GEZZ  | AA         | -        | J             | Hexagonal Nut                     |
| 32                                   | PCL iCA004WJKZ | AC         | -        | J             | Rivet, x2                         |
| 33                                   | PMLT-A410WJZZ  | AG         | -        | X             | Gasket 13x2x75, x7                |
| 34                                   | PMLT-A411WJZZ  | AE         | -        | X             | Gasket 2x2x35                     |
| 35                                   | PMLT-A414WJZZ  | AF         | -        | X             | Gasket 2x2x5, x2                  |
| 36                                   | PMLT-A415WJZZ  | AE         | -        | X             | Gasket 1x13x5, x3                 |
| 37                                   | PMLT-A416WJZZ  | AE         | -        | X             | Gasket 13x1x5                     |
| 38                                   | PRDARA424WJFW  | AM         | -        | X             | Radiator                          |
| 39                                   | PSLDMB093WJFW  | AX         | N        | X             | MAIN Shield                       |
| 40                                   | PSPA7A700WJKZ  | AD         | -        | J             | Spacer (FRC:IC581 COOL)           |
| 41                                   | PSPA7A886WJKZ  | AC         | -        | J             | Spacer (FRC:IC61 COOL)            |
| 42                                   | PSPA7A917WJKZ  | AH         | -        | J             | Cooling Sheet, x2                 |
| 43                                   | PSPA7B192WJKZ  | AG         | -        | X             | Cooling Sheet                     |
| 44                                   | PZETKA225WJKZ  | AR         | N        | X             | Barrier Sheet                     |
| 45                                   | QCNCWA496WJZZ  | AK         | -        | X             | Connector (F-RCA)                 |
| 46                                   | QCNCW-E903WJQZ | AN         | -        | X             | Connecting Cord (LA)              |
| 47                                   | QCNCW-F199WJQZ | AH         | -        | X             | Connecting Cord (SP:MAIN-SP L/R)  |
| 48                                   | QCNCW-F297WJQZ | AM         | -        | X             | Connecting Cord (LP:MAIN-FRC)     |
| 49                                   | QCNCW-F298WJQZ | AL         | -        | X             | Connecting Cord (PH)              |
| 50                                   | QCNCW-F299WJQZ | BA         | -        | X             | Connecting Cord (LV)              |
| 51                                   | QCNCW-F365WJQZ | AG         | -        | J             | Connecting Cord (FL:LCDCON-FRC)   |
| 52                                   | QCNCW-F713WJQZ | AP         | N        | X             | Connecting Cord (RA/RB:MN-IL/LED) |
| 53                                   | QCNCW-F785WJQZ | AM         | N        | X             | Connecting Cord (LB:INV-MAIN/FRC) |
| 54                                   | QPWBHE107WJQZ  | AT         | -        | J             | FPC, x2 (FRC-LCDCON)              |

| NO.                                  | PARTS CODE    | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                        |
|--------------------------------------|---------------|------------|----------|---------------|------------------------------------|
| <b>[9] CABINET PARTS (LC-46D82U)</b> |               |            |          |               |                                    |
| 55                                   | RSP-ZA201WJZZ | AZ         |          | X             | Speaker Box, x2                    |
| 56                                   | XBBS740P08000 | AA         |          | J             | Screw, x28 (for Angle Fix)         |
| 57                                   | XBPS730P06WS0 | AA         |          | J             | Screw, x45 (for PWB/Angle/Sheet)   |
| 58                                   | XBPS830P06000 | AA         |          | J             | Screw, x3 (for HDMI)               |
| 59                                   | XBPS930P08JS0 | AB         |          | J             | Screw, x5 (for Rear Cabinet)       |
| 60                                   | XEBS930P10000 | AA         |          | J             | Screw, x5 (for VIDEO Jack/KEY PWB) |
| 61                                   | XEBS940P20000 | AB         |          | J             | Screw, x13 (for Rear Cabinet)      |
| 62                                   | XEBSN40P10000 | AB         |          | J             | Screw, x4 (for Panel Angle)        |
| 63                                   | DLAB-A744WEV1 |            | N        | X             | WS Label                           |
| 64                                   | RCORF0107CEZZ | AM         |          | J             | Core                               |
| 65                                   | RCORFA023WJZZ | AK         |          | J             | Core, x3                           |
| 66                                   | PMLT-A412WJZZ | AF         |          | X             | Spacer                             |
| 67                                   | PMLT-A413WJZZ | AD         |          | X             | Spacer                             |
| 68                                   | PMLT-A423WJZZ |            |          | X             | Spacer, x3                         |
| 69                                   | PSLDMA840WJZZ | AD         |          | J             | Shield, x2                         |

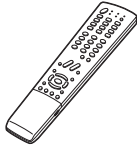
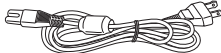
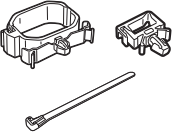
## [10] CABINET PARTS (LC-52D82U)



| NO.                                   | PARTS CODE       | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                       |
|---------------------------------------|------------------|------------|----------|---------------|-----------------------------------|
| <b>[10] CABINET PARTS (LC-52D82U)</b> |                  |            |          |               |                                   |
| 1                                     | CCABAB739WJ01    | CA         | N        | X             | Front Cabinet Ass'y               |
| 1-1                                   | -                | -          | N        | -             | Front Cabinet                     |
| 1-2                                   | -                | -          | N        | -             | Front Cover                       |
| 1-3                                   | -                | -          | N        | -             | Center Dec Cover                  |
| 1-4                                   | -                | -          | -        | -             | Badge, "SHARP"                    |
| 1-5                                   | -                | -          | N        | -             | LED Dec.                          |
| 1-6                                   | -                | -          | N        | -             | Center LED Dec                    |
| 1-7                                   | HDECSA012WJSA    | AQ         | N        | X             | Shine Trim                        |
| 1-8                                   | HPNL SA120WJSA   | BC         | N        | X             | Speaker Net                       |
| 1-9                                   | -                | -          | -        | -             | Mask Himeron, x6                  |
| 1-10                                  | PSPA ZB447WJZZ   | -          | N        | X             | Cover Tape 370*40, x4             |
| 1-11                                  | PSPA ZB448WJZZ   | -          | N        | X             | Cover Tape 575*40, x2             |
| 1-12                                  | TLABZA635WJZZ    | AC         | -        | J             | E-Star Label                      |
| 1-13                                  | TLABZB388WJSA    | AG         | N        | X             | POP Label                         |
| 1-14                                  | TLABZB419WJSA    | AE         | -        | X             | Label (18P POP)                   |
| 1-15                                  | PSPA ZB444WJZZ   | -          | N        | -             | Cover Tape, x2                    |
| 2                                     | CCABBB069WJ01    | BR         | N        | X             | Rear Cabinet Ass'y                |
| 2-1                                   | -                | -          | N        | -             | Rear Cabinet                      |
| 2-2                                   | LHLDWA012WJKZ    | AC         | -        | J             | WH (RWC-1SL-V)                    |
| 2-3                                   | LHLDWA131WJKZ    | AE         | -        | J             | Cable Clamp                       |
| 3                                     | CCOVAB914WJ01    | AS         | -        | X             | Top Cover Ass'y                   |
| 3-1                                   | -                | -          | N        | -             | Top Cover                         |
| 3-2                                   | -                | -          | N        | -             | Button, Control                   |
| 4                                     | CDA i - A358WJ02 | BQ         | N        | X             | Stand Unit                        |
| 4-1                                   | -                | -          | -        | -             | Support Ass'y, x2                 |
| 4-2                                   | -                | -          | N        | -             | Stand Base Ass'y                  |
| 4-3                                   | -                | -          | -        | -             | Screw, x6 (for Stand Unit)        |
| 4-4                                   | -                | -          | -        | -             | Screw, x4 (to Set)                |
| 5                                     | R1LK520D3LZ2CZ   | HC         | N        | J             | 52" Panel Module                  |
| 6                                     | DUNTKE028FM03    | -          | N        | R             | MAIN Unit                         |
| 7                                     | DUNTKD935FM10    | BG         | N        | X             | Terminal Unit                     |
| 8                                     | DUNTKD910FM02    | AG         | -        | X             | KEY Unit                          |
| 9                                     | DUNTKD909FM02    | AQ         | -        | X             | LED Unit                          |
| 10                                    | DUNTKD888FM01    | AH         | N        | X             | Illumination unit                 |
| 11                                    | RDENCA205WJQZ    | BU         | -        | X             | POWER SUPPLY Unit (Unit exchange) |
| 12                                    | DUNTKE046FE02    | CC         | N        | J             | FRC Unit                          |
| 13                                    | GCOVAA678WJKA    | AE         | -        | J             | SD Cover                          |
| 14                                    | GCOVAB913WJKA    | AQ         | -        | X             | Stand ST Cover (Front), x2        |
| 15                                    | GCOVAC282WJKA    | AQ         | N        | X             | Stand ST Cover (Rear), x2         |
| 16                                    | HINDPB715WJSA    | AC         | -        | X             | Terminal Label                    |
| 17                                    | HINDPC198WJSA    | AH         | N        | X             | JACK Indication Plate             |
| 18                                    | HINDPC199WJSA    | AH         | N        | X             | Model Label                       |
| 19                                    | LANGKA819WJN1    | AN         | -        | X             | Stand Fixing Angle, x2            |
| 20                                    | CANGTA374WJ02    | BC         | -        | X             | Bridge Angle Ass'y                |
| 20-1                                  | -                | -          | N        | -             | Fixing Angle, x2 (Center)         |
| 20-2                                  | -                | -          | -        | -             | Bridge Angle, x2                  |
| 20-3                                  | XBBS740P08000    | AA         | -        | J             | Screw, x8 (for Angle Fix)         |
| 21                                    | LANGKA992WJFW    | BG         | -        | X             | FRC PWB Set Angle, x2             |
| 22                                    | LANGKB025WJFW    | AL         | N        | X             | Terminal Angle                    |
| 23                                    | LANGTA375WJFW    | AK         | -        | X             | Chassis Fixing Angle, x4          |
| 24                                    | LANGTA436WJM1    | AU         | -        | X             | FRC PWB Angle                     |
| 25                                    | LBSHZA005WJZZ    | AB         | -        | J             | Washer                            |
| 26                                    | CCHSMA354WJ01    | BB         | N        | X             | Tray Chassis Ass'y                |
| 26-1                                  | -                | -          | N        | -             | Tray Chassis                      |
| 26-2                                  | LHLDWA102WJKZ    | AB         | -        | J             | Wire Holder, x2                   |
| 26-3                                  | LHLDWA120WJKZ    | AB         | -        | J             | Wire Holder, x4                   |
| 26-4                                  | LHLDWA123WJKZ    | AB         | -        | J             | Wire Holder, x2                   |
| 27                                    | LHLDWA123WJKZ    | AB         | -        | J             | Wire Holder, x2                   |
| 28                                    | LHLDWA138WJKZ    | AC         | -        | J             | LV Wire Holder, x5                |
| 29                                    | LHLDWA150WJKZ    | AC         | -        | J             | Edge Saddle WH                    |
| 30                                    | LX-HZA003WJFN    | AC         | -        | J             | Screw, x2 (for Speaker)           |
| 31                                    | LX-NZ3047GEZZ    | AA         | -        | J             | Hexagonal Nut                     |
| 32                                    | PCL i CA004WJKZ  | AC         | -        | J             | Rivet, x2                         |
| 33                                    | PMLT-A410WJZZ    | AG         | -        | X             | Gasket 13x2x75, x7                |
| 34                                    | PMLT-A411WJZZ    | AE         | -        | X             | Gasket 20x20x3                    |
| 35                                    | PMLT-A412WJZZ    | AF         | -        | X             | Gasket 20x20x35                   |
| 36                                    | PMLT-A413WJZZ    | AD         | -        | X             | Gasket 13x07x50, x2               |
| 37                                    | PRDARA424WJFW    | AM         | -        | X             | Radiator                          |
| 38                                    | PSLDMB093WJFW    | AX         | N        | X             | MAIN Shield                       |
| 39                                    | PSPA ZA700WJKZ   | AD         | -        | J             | Spacer (FRC:IC581 COOL)           |
| 40                                    | PSPA ZA886WJKZ   | AC         | -        | J             | Spacer (FRC:IC61 COOL)            |
| 41                                    | PSPA ZA917WJKZ   | AH         | -        | J             | Cooling Sheet, x2                 |
| 42                                    | PSPA ZB192WJKZ   | AG         | -        | X             | Cooling Sheet                     |
| 43                                    | PZETKA223WJKZ    | AP         | -        | X             | Barrier Sheet                     |
| 44                                    | QCNCWA496WJZZ    | AK         | -        | X             | Connector (F-RCA)                 |
| 45                                    | QCNW-F002WJQZ    | AN         | -        | X             | Connecting Cord (LA:POW-INV)      |
| 46                                    | QCNW-F200WJQZ    | AK         | -        | X             | Connecting Cord (SP:MAIN-SP L/R)  |
| 47                                    | QCNW-F297WJQZ    | AM         | -        | X             | Connecting Cord (LP-LW:MAIN-FRC)  |
| 48                                    | QCNW-F298WJQZ    | AL         | -        | X             | Connecting Cord (PH:MAIN-POW/CON) |
| 49                                    | QCNW-F299WJQZ    | BA         | -        | X             | Connecting Cord (LV:MAIN-FRC)     |
| 50                                    | QCNW-F305WJQZ    | AF         | -        | X             | Connecting Cord (52-DISTINCTION)  |
| 51                                    | QCNW-F365WJQZ    | AG         | -        | J             | Connecting Cord (FL:LCDCON-FRC)   |
| 52                                    | QCNW-F712WJQZ    | AP         | N        | X             | Connecting Cord (RA/RB:MN-IL/LED) |
| 53                                    | QCNW-F784WJQZ    | AM         | N        | X             | Connecting Cord (LB:INV-MAIN/FRC) |
| 54                                    | QPWBHE107WJQZ    | AT         | -        | J             | FPC, x2 (FRC-LCDCON)              |

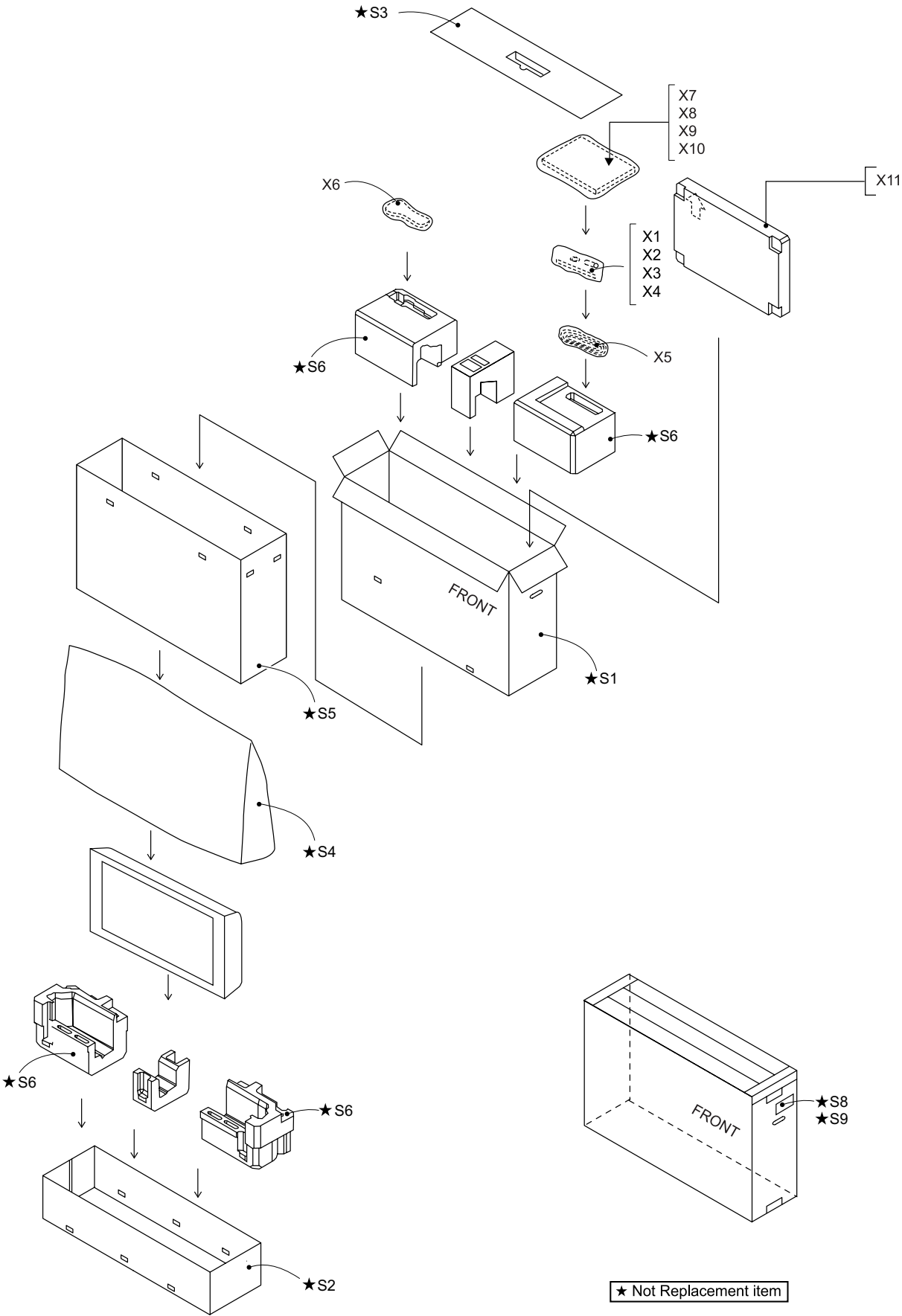
| NO.                                   | PARTS CODE    | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                        |
|---------------------------------------|---------------|------------|----------|---------------|------------------------------------|
| <b>[10] CABINET PARTS (LC-52D82U)</b> |               |            |          |               |                                    |
| 55                                    | RSP-ZA201WJZZ | AZ         |          | X             | Speaker Box, x2                    |
| 56                                    | XBBS740P08000 | AA         |          | J             | Screw, x28 (for Angle Fix)         |
| 57                                    | XBPS730P06WS0 | AA         |          | J             | Screw, x43 (for PWB/Angle/Sheet)   |
| 58                                    | XBPS830P06000 | AA         |          | J             | Screw, x3 (for HDMI)               |
| 59                                    | XBPS930P08JS0 | AB         |          | J             | Screw, x5 (for Rear Cabinet)       |
| 60                                    | XEBS930P10000 | AA         |          | J             | Screw, x5 (for VIDEO Jack/KEY PWB) |
| 61                                    | XEBS940P20000 | AB         |          | J             | Screw, x18 (for Rear Cabinet)      |
| 62                                    | XEBSN40P10000 | AB         |          | J             | Screw, x4 (for Panel Angle)        |
| 63                                    | DLAB-A743WEV1 |            | N        | X             | WS Label                           |

## [11] SUPPLIED ACCESSORIES

|                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| X6<br>Remote control unit                                                         | X5<br>AC cord                                                                     | X1 X3<br>Cable Clamp<br>X2<br>Cable tie                                           | X11<br>Stand unit                                                                   | X10<br>Operation manual                                                             |
| X4<br>Polyethylene Bag                                                            | X7<br>Polyethylene Bag                                                            | X8<br>Enquete Card                                                                | X9<br>Extend Warranty Card                                                          |                                                                                     |

| NO.                              | PARTS CODE     | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION          |
|----------------------------------|----------------|------------|----------|---------------|----------------------|
| <b>[11] SUPPLIED ACCESSORIES</b> |                |            |          |               |                      |
| X1                               | LHLDWA012WJKZ  | AC         |          | J             | Cable Clamp          |
| X2                               | LHLDWA083WJ00  | AD         |          | J             | Cable Band           |
| X3                               | LHLDWA131WJKZ  | AE         |          | J             | Cable Clamp          |
| X4                               | SSAKAA032WJZZ  | AB         |          | J             | Polyethylene Bag     |
| X5                               | QACCDAA039WJPZ | AQ         |          | J             | AC Cord              |
| X6                               | RRMCGA535WJSA  | AY         |          | X             | Remote Control Unit  |
| X7                               | SSAKA0101GJZZ  | AC         |          | X             | Polyethylene Bag     |
| X8                               | TCADEA208WJZZ  | AD         |          | X             | Enquete Card         |
| X9                               | TGAN-A768WJZZ  | AD         |          | X             | Extend Warranty Card |
| X10                              | TINS-C996WJZZ  | AR         | N        | X             | Operation Manual     |
| X11                              | CDAI-A358WJ02  | BQ         | N        | X             | Stand Unit           |

[12] PACKING PARTS (NOT REPLACEMENT ITEM)



| NO.                                              | PARTS CODE    | PRICE RANK | NEW MARK | PART DELIVERY | DESCRIPTION                                                          |
|--------------------------------------------------|---------------|------------|----------|---------------|----------------------------------------------------------------------|
| <b>[12] PACKING PARTS (NOT REPLACEMENT ITEM)</b> |               |            |          |               |                                                                      |
| S1                                               | SPAKCD308WJZZ | -          | N        | -             | Packing Case (LC-46D82U)                                             |
| S1                                               | SPAKCD307WJZZ | -          | N        | -             | Packing Case (LC-52D82U)                                             |
| S2                                               | SPAKCD394WJZZ | -          | N        | -             | Bottom Case (LC-46D82U)                                              |
| S2                                               | SPAKCD087WJZZ | -          | -        | -             | Bottom Case (LC-52D82U)                                              |
| S3                                               | SPAKFB148WJZZ | -          | N        | -             | Top Pad (LC-46D82U)                                                  |
| S3                                               | SPAKFB149WJZZ | -          | -        | -             | Top Pad (LC-52D82U)                                                  |
| S4                                               | SPAKPA775WJZZ | -          | -        | -             | Wrapping Paper (LC-46D82U)                                           |
| S4                                               | SPAKPA776WJZZ | -          | -        | -             | Wrapping Paper (LC-52D82U)                                           |
| S5                                               | SPAKSA033WJZZ | -          | N        | -             | Sleeve (LC-52D82U)                                                   |
| S6                                               | SPAKXB404WJZZ | -          | N        | -             | Buffer Material (LC-46D82U)                                          |
| S6                                               | SPAKXB405WJZZ | -          | N        | -             | Buffer Material (LC-52D82U)                                          |
| S8                                               | TLABKA009WJZZ | -          | -        | -             | No. Label                                                            |
| S9                                               | TLABNB037WJZZ | -          | -        | -             | Label                                                                |
| <b>[13] SERVICE JIGS (USE FOR SERVICING)</b>     |               |            |          |               |                                                                      |
| N                                                | QCNW-C222WJQZ | AW         |          | J             | Extension Cable 80pins FFC L=1000mm, LCD Cont. to LCD Panel Unit, x2 |
| N                                                | QCNW-C799WJPZ | AG         |          | J             | RCA Cable L=1500mm, Tuner Extension                                  |
| N                                                | QCNW-E134WJQZ | BG         |          | J             | 41pins L=400mm, MAIN to FRC Unit (LV)                                |
| N                                                | QCNW-F676WJQZ |            | N        | J             | L=1000mm, LC Cont to FRC Unit (LV), x2                               |
| N                                                | QCNW-F677WJQZ |            | N        | J             | L=1000mm, LC Cont to FRC Unit (FL-CN8)                               |
| N                                                | QCNW-F135WJQZ | AS         |          | J             | L=1000mm, (LV)                                                       |
| N                                                | QCNW-F678WJQZ |            | N        | J             | L=1200mm, (LB)                                                       |
| N                                                | QCNW-F675WJQZ |            | N        | J             | L=1000mm, (LP-LF)                                                    |

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