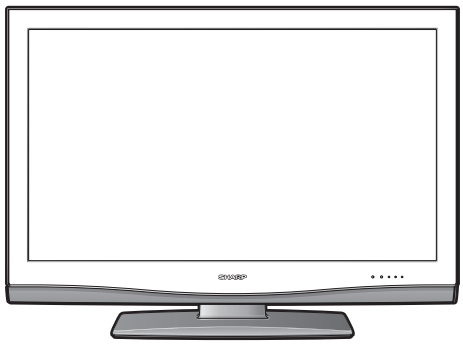
SHARP SERVICE MANUAL

No. S06X6LC37SD1E



LCD COLOR TELEVISION

MODELS LC-37SD1E/RU

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.

CONTENTS

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.

SHARP CORPORATION

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.

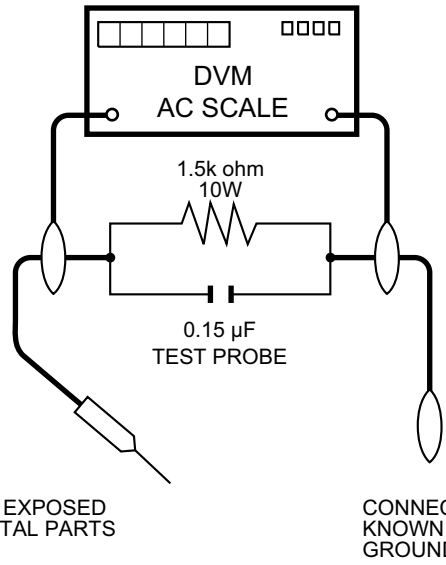
CAUTION:
FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE FUSE.
F701 (4A/250V)

■ 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 220~240 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 1.05 V peak (this corresponds to 0.7 mA peak 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 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

Part No.	★	Description	Code
ZHNDAi123250E	J	ϕ0.3mm 250g (1roll)	BL
ZHNDAi126500E	J	ϕ0.6mm 500g (1roll)	BK
ZHNDAi12801KE	J	ϕ1.0mm 1kg (1roll)	BM

CHAPTER 1. OPERATION MANUAL

[1] SPECIFICATIONS

Item			37" LCD COLOUR TV, Model: LC-37SD1E
LCD panel			37" Advanced Super View & BLACK TFT LCD
Number of dots			3,147,264 dots (1366 × 768 × 3 dots)
Video Colour System			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60
TV Function	TV-Standard	Analogue	CCIR (B/G, I, D/K, L, L')
		Digital	DVB-T (2K/8K OFDM)
	Receiving Channel	VHF/UHF	E2–E69ch, F2–F10ch, I21–I69ch, IR A–IR Jch, (Digital: E5–E69ch)
		CATV	Hyper-band, S1–S41ch
	TV-Tuning System		Auto Preset 99 ch, Auto Label, Auto Sort
	STEREO/BILINGUAL		NICAM/A2
Brightness			450 cd/m^2
Viewing angles			H : 176° V : 176°
Audio amplifier			10W × 2
Speaker			130 mm × 60 mm
Terminals	Rear	Antenna input	UHF/VHF 75 Ω Din type (Analogue & Digital)
		RS-232C	9 pin MINI-DIN male connector
		EXT 1	SCART (AV input, Y/C input, RGB input, TV output)
		EXT 2	SCART (AV input/output, Y/C input, RGB input, AV Link)
		EXT 3	S-VIDEO (Y/C input), RCA pin (AV input)
		EXT 4	Ø 3.5 mm jack (Audio input), 15 pin mini D-sub (PC/Component)
		EXT 5	HDMI, Ø 3.5 mm jack (Audio input)
		C. I. (Common Interface)	EN50221, R206001
		OUTPUT	RCA pin (Audio)
		Headphones	Ø 3.5 mm jack (Audio output)
OSD language			English/German/French/Italian/Spanish/Dutch/Swedish/Portuguese/Finnish/Turkish/Greek/ Russian/Polish
Power Requirement			AC 220–240 V, 50 Hz
Power Consumption			168 W (0.9 W Standby) (Method IEC60107)
Weight			20.1 kg (Display only), 22.8 kg (Display with stand)
Operating temperature			0°C to e 40°C

- As a 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.

NOTE

- Refer to inside back cover for dimensional drawings.

Optional accessories

The listed optional accessories are available for the LCD colour TV. Please purchase them at your nearest shop.

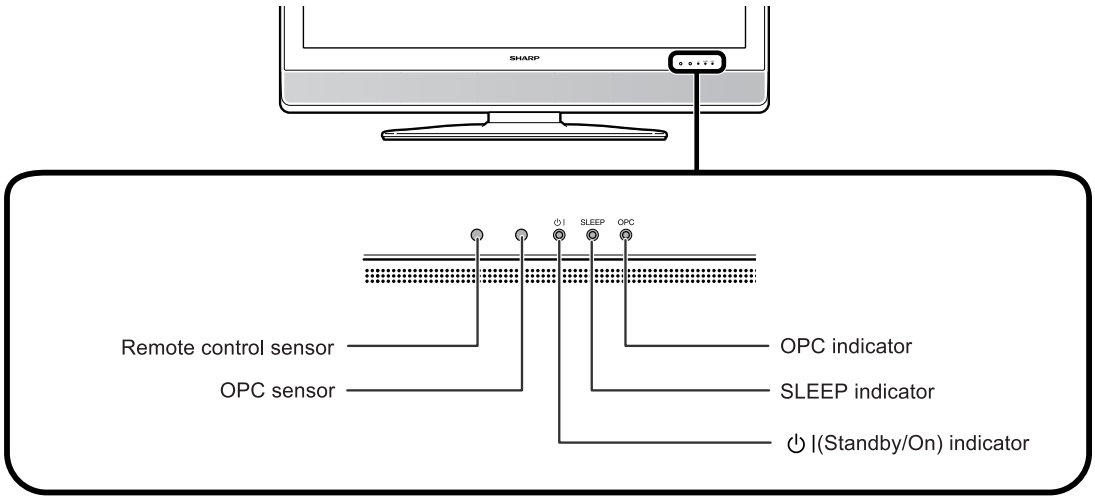
- Additional optional accessories may be available in near future. When purchasing, please read the newest catalogue for compatibility and check the availability.

No.	Part name	Part number
1	Wall mount bracket (LC-37SD1E, LC-42SD1E)	AN-37AG2
2	9 pin D-sub/MINI-DIN conversion cable	AN-A1RS

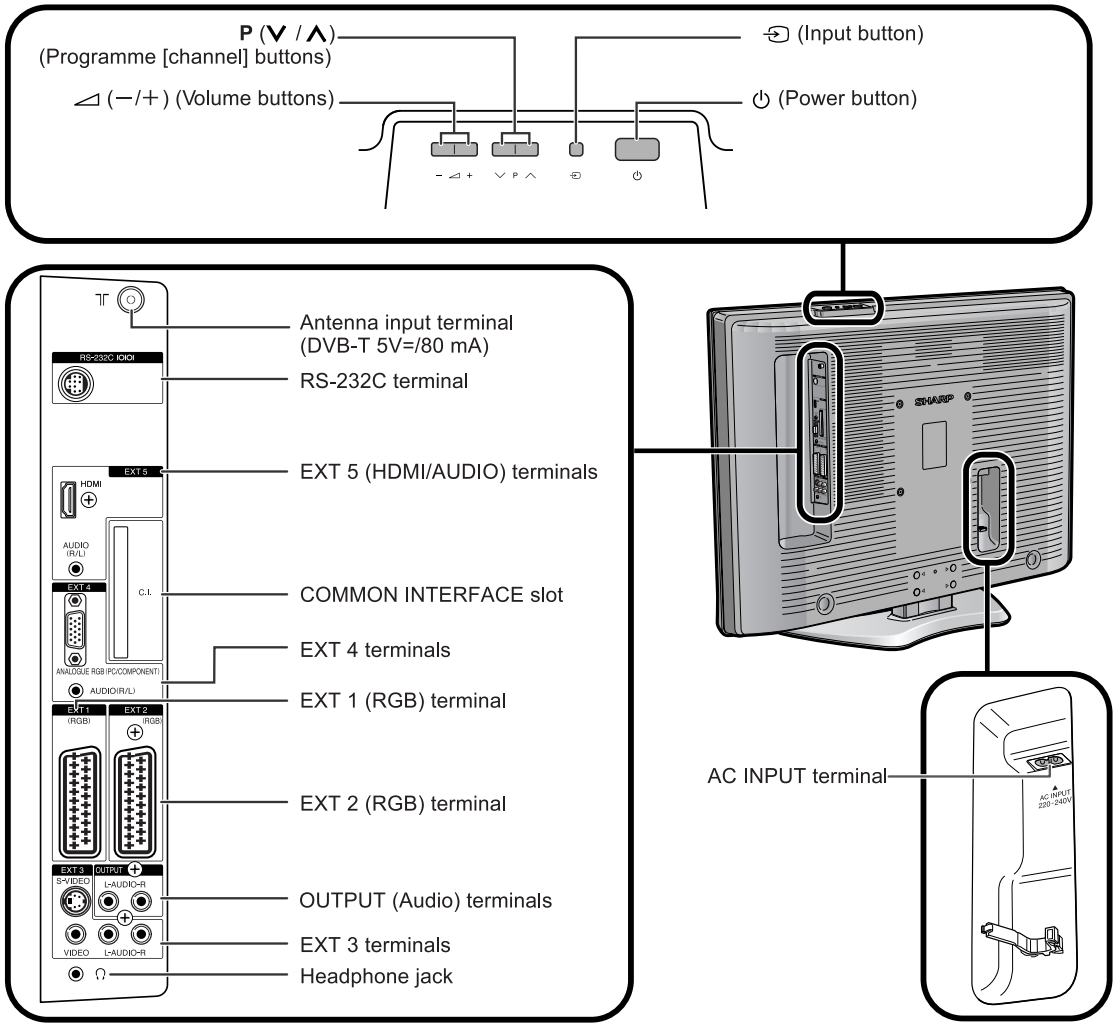
[2] OPERATION MANUAL

Quick guide

TV (Front view)



TV (Rear view)

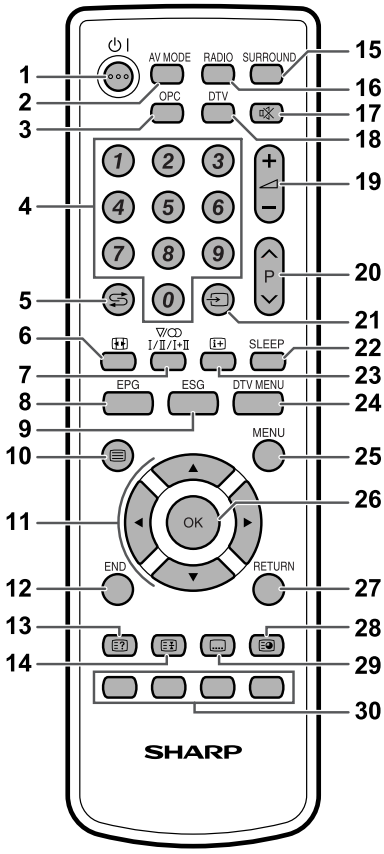


NOTE

- Only if you use an active terrestrial antenna, select “On (5V)” under “Supply Voltage”.

Quick guide

Remote control unit



1 ⏻ **(Standby/On)**
Enter standby mode or turn on the power.

2 **AV MODE**
Select a video setting.

3 **OPC**
To switch the Optical Picture Control on and off.

4 **0-9**
Set the channel in TV and DTV mode.
Set the page in Teletext mode.

5 **(Flashback)**
Press to return to the previous image in normal viewing mode. (Will not work while operating in EPG/ESG screen.)

6 **(WIDE MODE)**
Select the wide mode.
Set the area of magnification in Teletext mode.

7 **(Sound mode)**
Select the sound multiplex mode. (See below.)

8 **EPG**
DTV: To display EPG (Electronic Programme Guide) screen.

9 **ESG**
DTV: To display ESG (Electronic Service Guide) screen.

10 **(Teletext)**
Select the TELETEXT mode. (All TV image, DTV/DATA image, all TEXT image, TV/TEXT image)
DTV: Select DTV data broadcasting and TELETEXT.

11 **▲/▼/◄/► (Cursor)**
Select a desired item on the setting screen.

12 **END**
Exit the menu screen.

13 **(Reveal hidden Teletext)**

14 **(Freeze/Hold)**

15 **SURROUND**
Switch the surround effects on and off.

16 **RADIO**
DTV: Switch between RADIO and DTV mode.

17 **(Mute)**
Switch the sound on and off.

18 **DTV**
Press to access DTV mode while watching other input sources, and vice versa.
(This button will not work if you were watching DTV immediately before turning off the TV. In this case first select any other input source except DTV using the button.)

19 **(+/−) (Volume)**
(+) Increase the volume.
(−) Decrease the volume.

20 **P (^/v)**
TV/DTV: Select the channel.
External: Switch to TV or DTV input mode.
Teletext: Move to the next/previous page.

21 **(INPUT SOURCE)**
Select an input source.
(TV, DTV, EXT1, EXT2, EXT3, EXT4, EXT5)

22 **SLEEP**
Set the sleep timer on (in units of 30 min. up to max. 2 hr. 30 min) and off.

23 **(Display information)**

24 **DTV MENU**
DTV: Display DTV Menu screen.

25 **MENU**
Display the MENU screen.

26 **OK**
Execute a command within the menu screen.
Display the programme list. (Except external input.)

27 **RETURN**
Return to the previous menu screen.

28 **(Subpage)**

29 **(Subtitle for Teletext)**
TV/External: To turn the subtitles on and off.
DTV: Display the subtitle selection screen.

30 **Colour (Red/Green/Yellow/Blue)**
TELETEXT: Select a page.
DTV: The coloured buttons are used to select correspondingly to the coloured items in the menu screen.

Using on the remote control unit

DTV mode:

Press to open the multi audio screen.

Analogue TVmode:

Each time you press , the mode switches as illustrated in the following tables.

NICAM TV broadcasts selection

Signal	Selectable items
Stereo	NICAM STEREO, MONO
Bilingual	NICAM CH A, NICAM CH B, NICAM CH AB, MONO
Monaural	NICAM MONO, MONO

A2 TV broadcasts selection

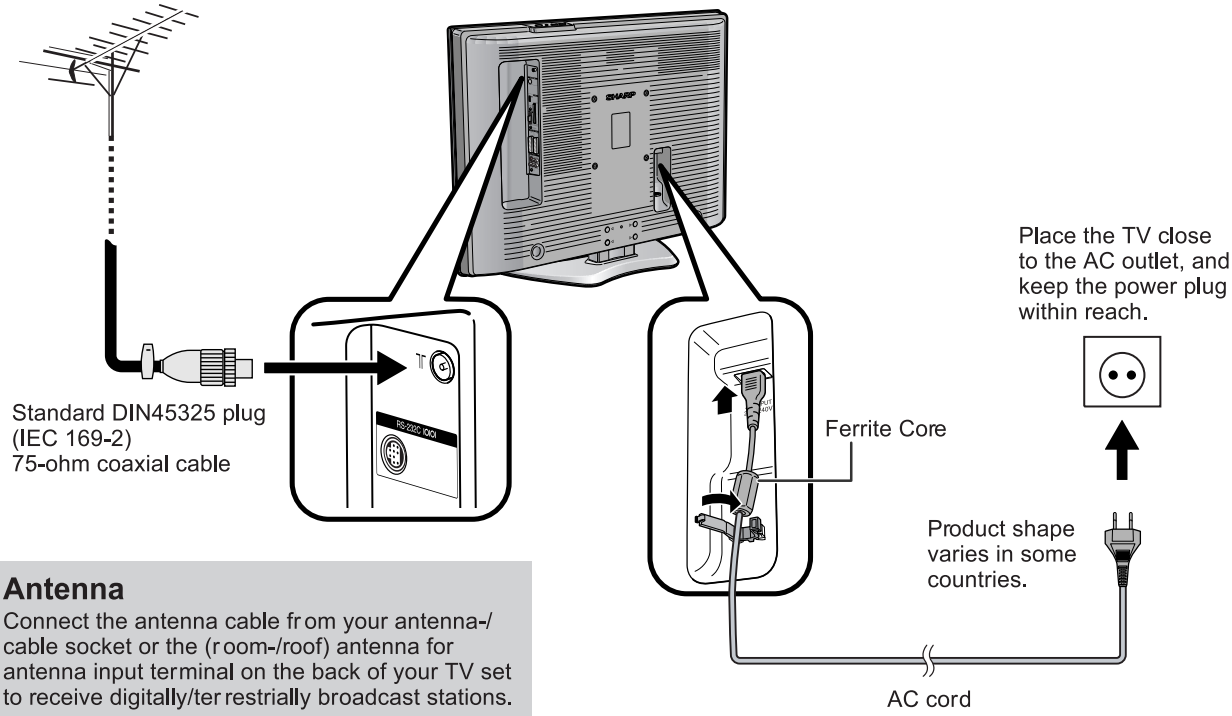
Signal	Selectable items
Stereo	STEREO, MONO
Bilingual	CH A, CH B, CH AB
Monaural	MONO

NOTE

- When no signal is input, the sound mode will display "MONO".

Quick guide

Setting the TV



Antenna

Connect the antenna cable from your antenna-/cable socket or the (room-/roof) antenna for antenna input terminal on the back of your TV set to receive digitally/terrestrially broadcast stations.

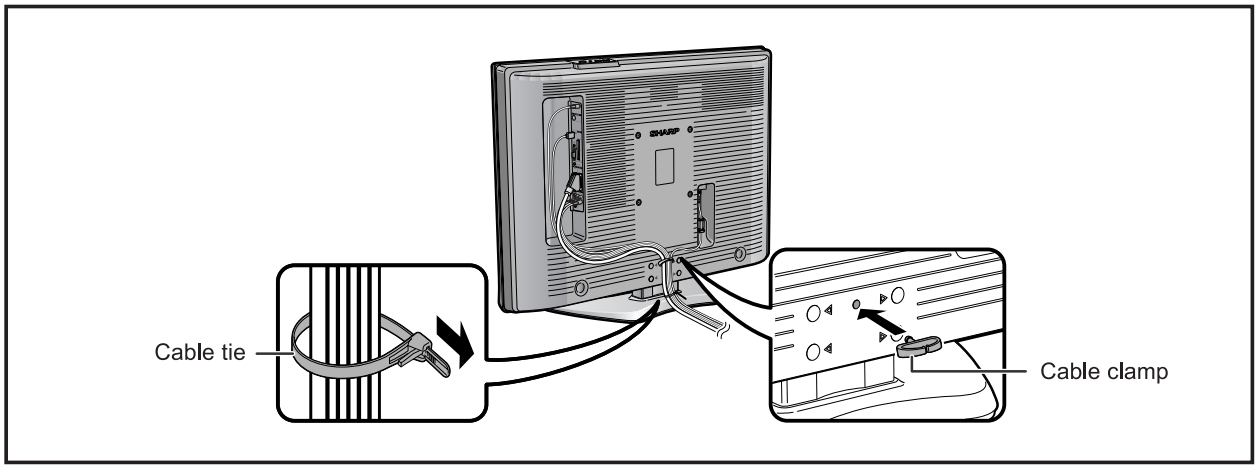
An indoor antenna can also be used under good reception conditions. Passive and active room antennas are offered commercially. In an active antenna its power is supplied via the antenna input terminal.

The supply voltage (5V) must be correspondingly set under "Supply Voltage".

Ferrite Core

The Ferrite Core should be permanently attached and never removed from the AC cord.

Bundling the cables



Setting the TV on the wall

- **This TV should be mounted on the wall only with the wall mount bracket available from SHARP. The use of other wall mount brackets may result in an unstable installation and may cause serious injuries.**
- **When you use the AN-37AG2 (SHARP) wall mount brac set the angle of the TV to 0°C or 5°C. Do not set the angleto more than 10°C.**
- **Installing the LCD Colour 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.**
- You can ask a qualified service personnel about using an optional bracket to mount the TV to the wall.

Quick guide

Attaching the stand

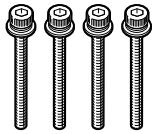
Before performing work spread cushioning over the base area to lay the TV on, making sure the area is completely flat. This will prevent it from being damaged.

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

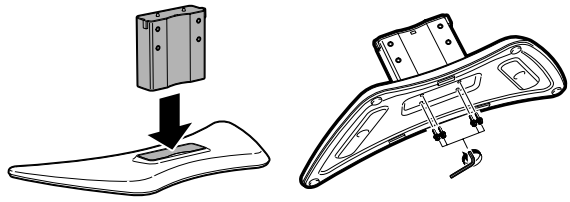
1 Confirm the 8 screws supplied with the TV.

Short screws (x 4)
(used in step 2)

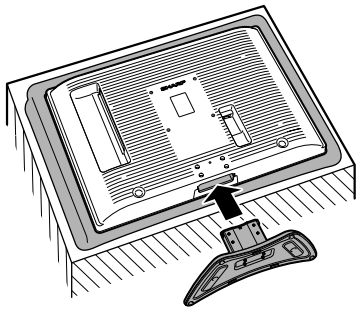
Long screws (x 4)
(used in step 4)



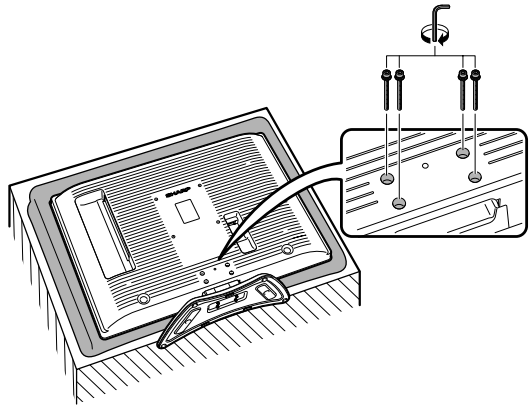
2 Attach the two parts of the stand unit to each other using the 4 short screws as shown.



3 Insert the stand into the opening on the bottom of the TV.



4 Insert and tighten the 4 long screws on the rear of theTV as shown.



NOTE

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

Appendix

Troubleshooting

Problem	Possible Solution
• No power.	• Check if you pressed ⏻/I on the remote control unit. If the indicator on the TV lights up red, press ⏻/I. • Is the AC cord disconnected? • Check if you pressed ⏻ on the TV.
• Unit cannot be operated.	• External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after first turning the power off, or unplugging the AC cord and re-plugging it in after 1 or 2 minutes.
• Remote control unit does not operate.	• Are batteries inserted with polarity (+ , −) aligned? • Are batteries worn out? (Replace with new batteries.) • Are you using it under strong or fluorescent lighting? • Is a fluorescent light illuminated to remote control sensor?
• Picture is cut off.	• Is the image position correct? • Are screen mode adjustments (4:3 Mode/WSS) such as picture size made correctly?
• Strange colour, light colour, or dark, or colour misalignment.	• Adjust the picture tone. • Is the room too bright? The picture may look dark in a room that is too bright. • Check the colour system setting. • Check the HDMI Setup setting.
• Power is suddenly turned off.	• The unit's internal temperature has increased. Remove any objects blocking vent or clean. • Check the power control setting. • Is sleep timer set? Press **SLEEP** on the remote control unit until it sets to Off.
• No picture.	• Is connection to other components correct? • Is input signal type selected correctly after connection? • Is the correct input source selected? • Is non-compatible signal being input? • Is picture adjustment correct? • Is the antenna connected properly? • Is "On" selected in "Audio Only"?
• No sound.	• Is the volume too low? • Make sure that headphones are not connected. • Check if you pressed 🔇 on the remote control unit.
• The DTV menu screen is displayed in monochrome and hard to select the item.	• Check if "Monochrome" is set to "On". If so, set it to "Off".

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 LCD panel to malfunction.
  Storage temperature: −20℃ to + 60℃.

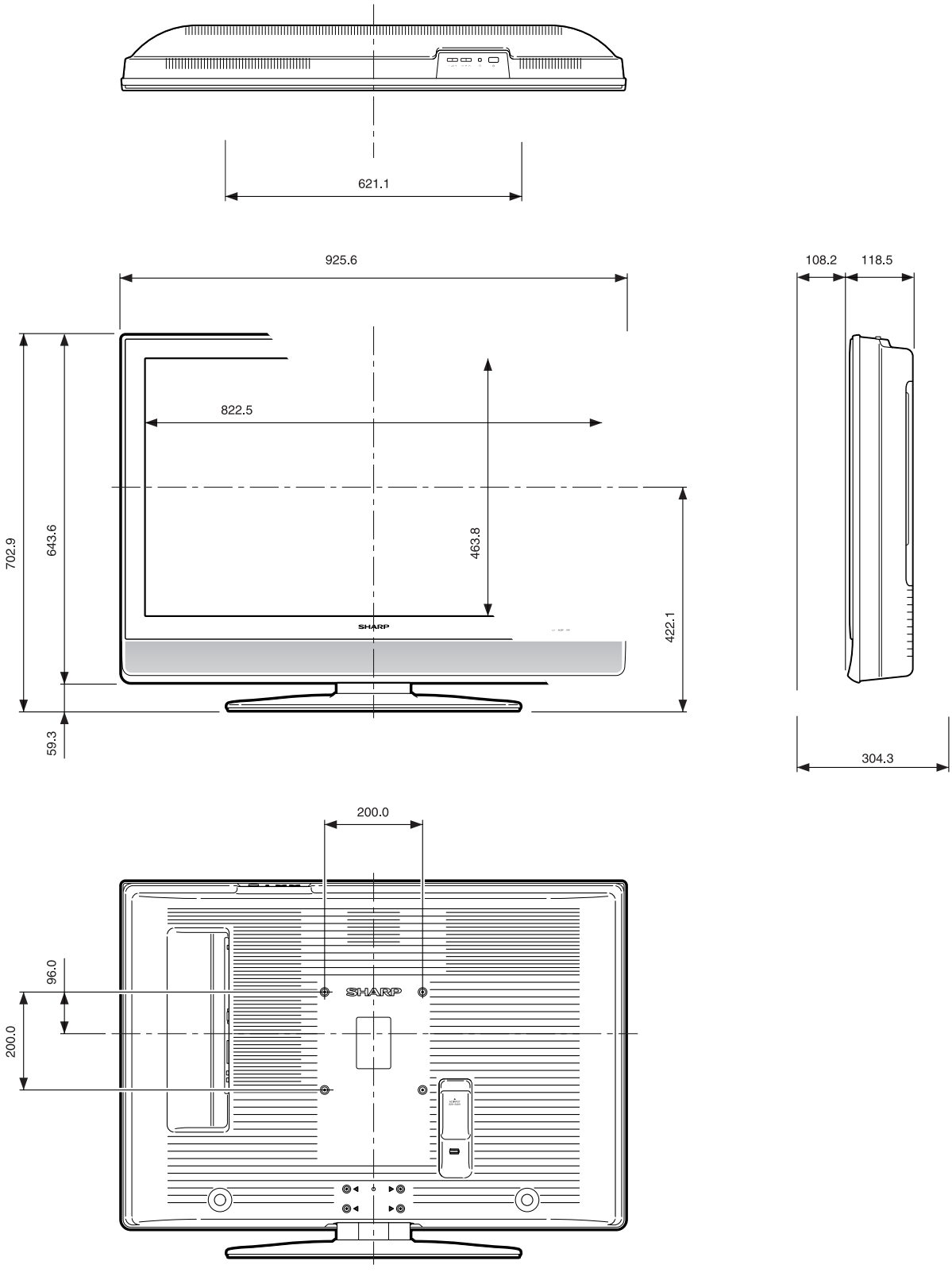
IMPORTANT NOTE ON RESETTING THE PIN

We suggest that you remove the following instruction from the operation manual to prevent children from reading it. As this operation manual is multilingual, we also suggest the same with each language. Keep it in a safe space for future reference.

1 Repeat steps 1 to 3 in **Changing the PIN** .

2 Enter "3001" to cancel out the current PIN.
- The PIN resets to the factory preset "1234".

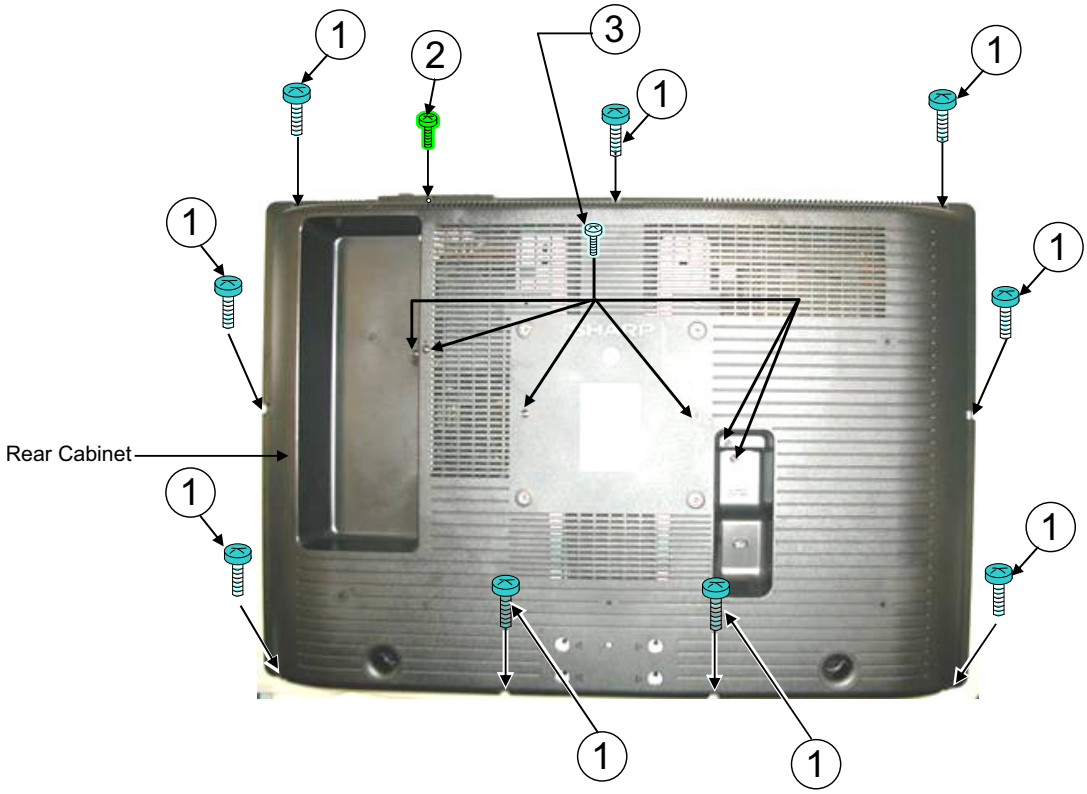
[3] DIMENSIONS



CHAPTER 2. REMOVING OF MAJOR PARTS

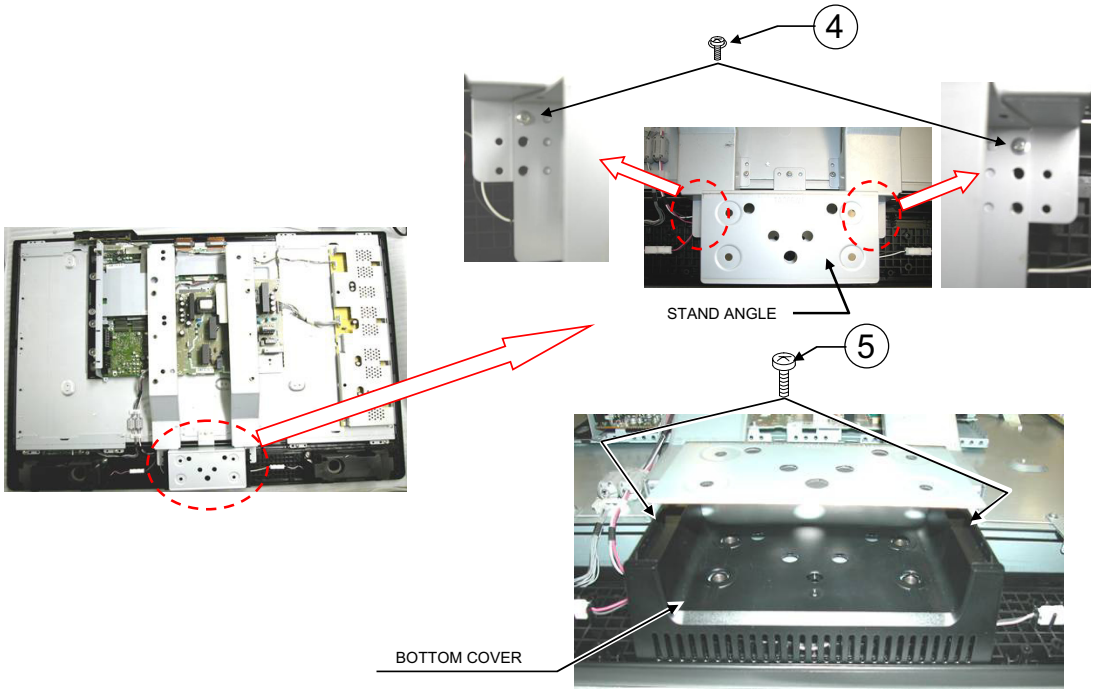
[1] REMOVING OF MAJOR PARTS

1. Remove the 9 lock screws ① , 1 lock screw ② , and 6 lock screws ③ . Detach the Rear Cabinet.

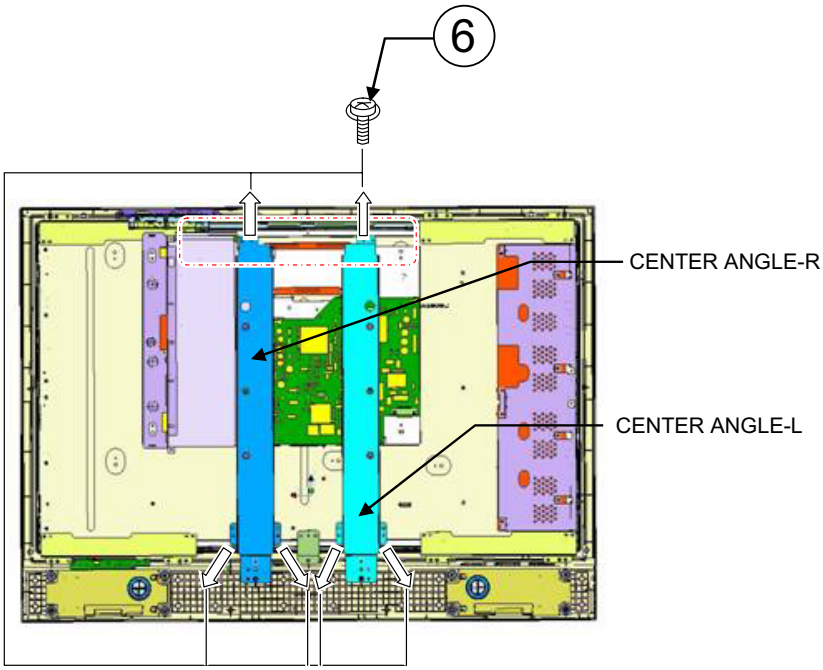


2. Remove the 2 lock screws ④ and detach the Stand Angle.

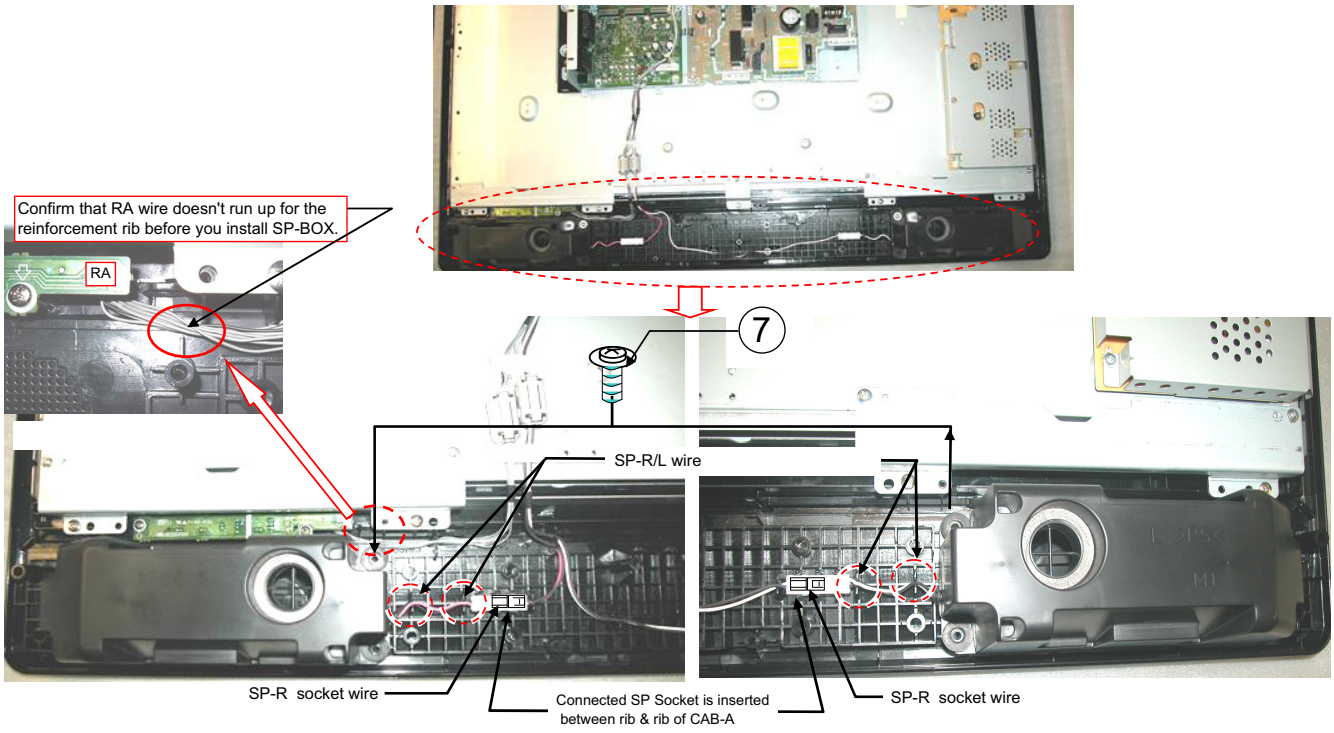
3. Remove the 2 lock screws ⑤ and the Detach the Bottom Cover.



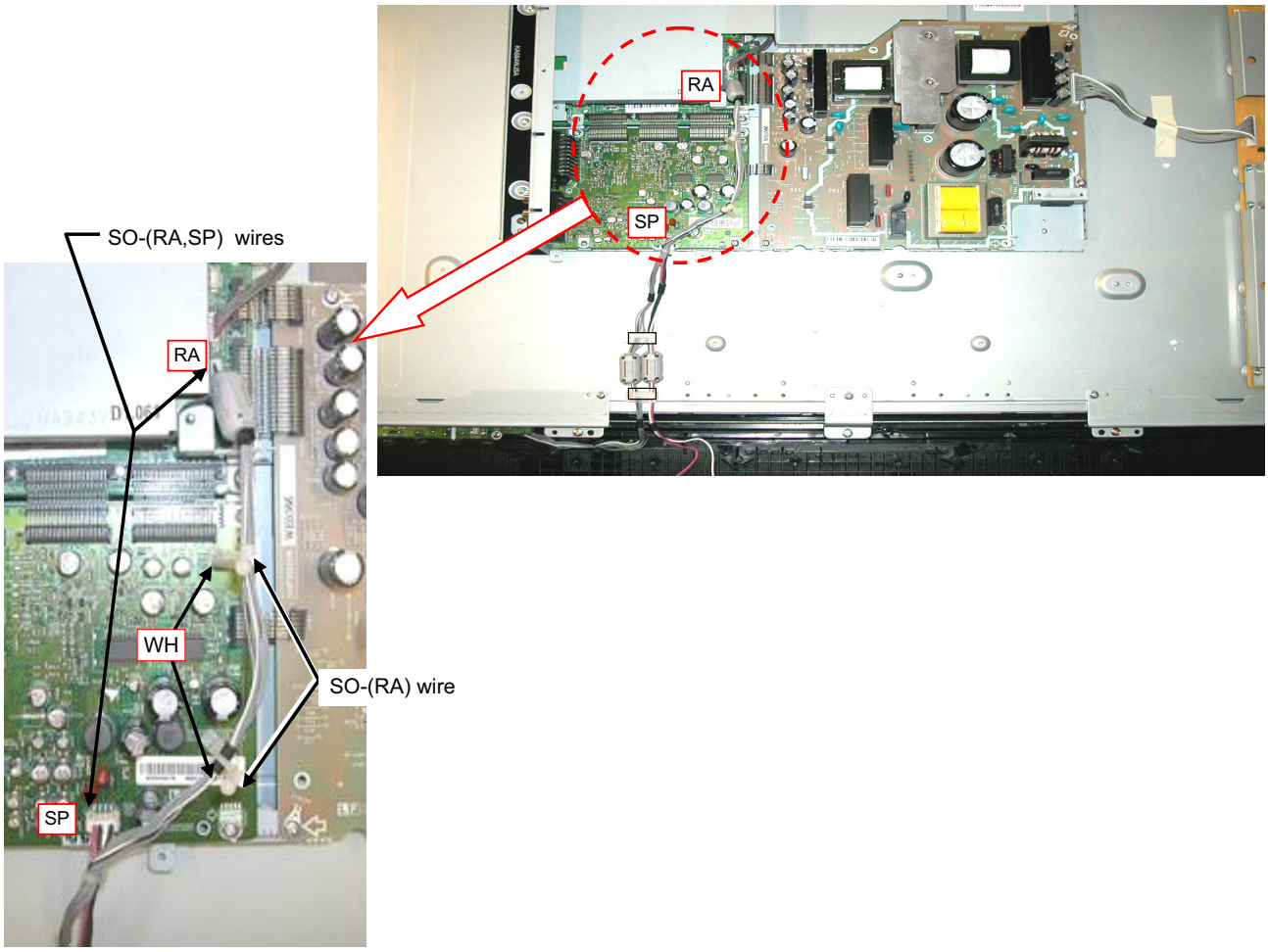
4. Remove the 2 lock screws (6) and detach the Stand Angle.



5. Remove the 1 lock screw (7) and detach the Speaker-L/R.



6. Remove all the connectors from PWBs.



7. Remove the 3 lock screws (8) and detach the D-Tuner Unit.

8. Remove the 5 lock screws (9) and detach the Shield Cover

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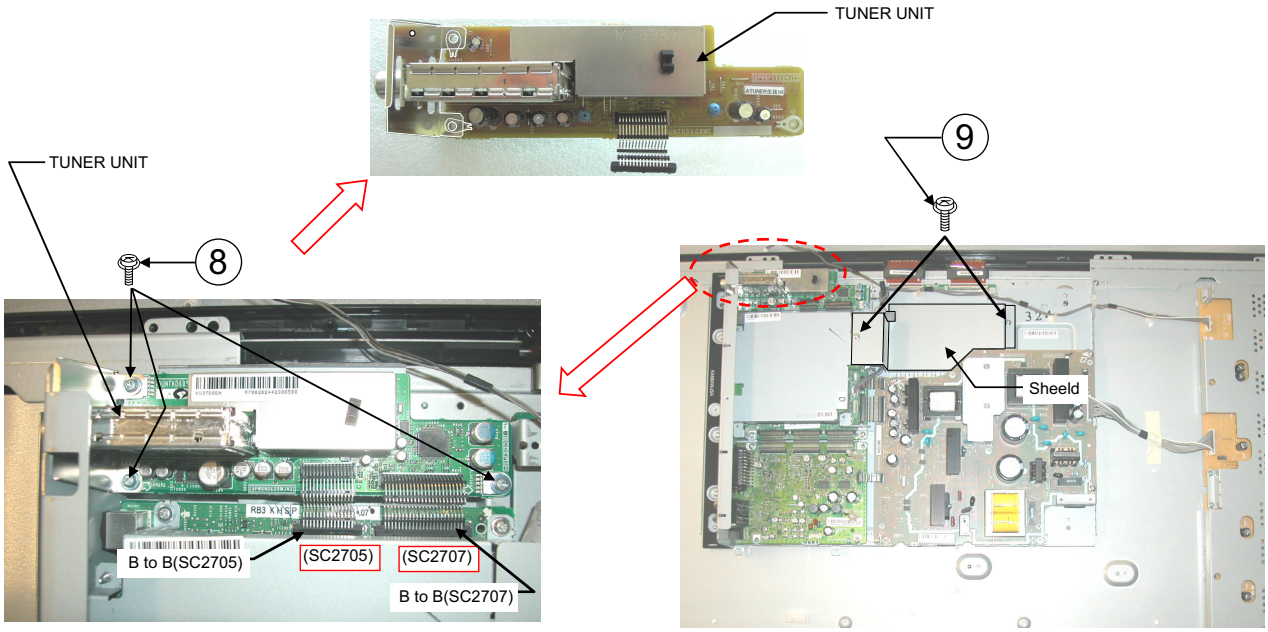
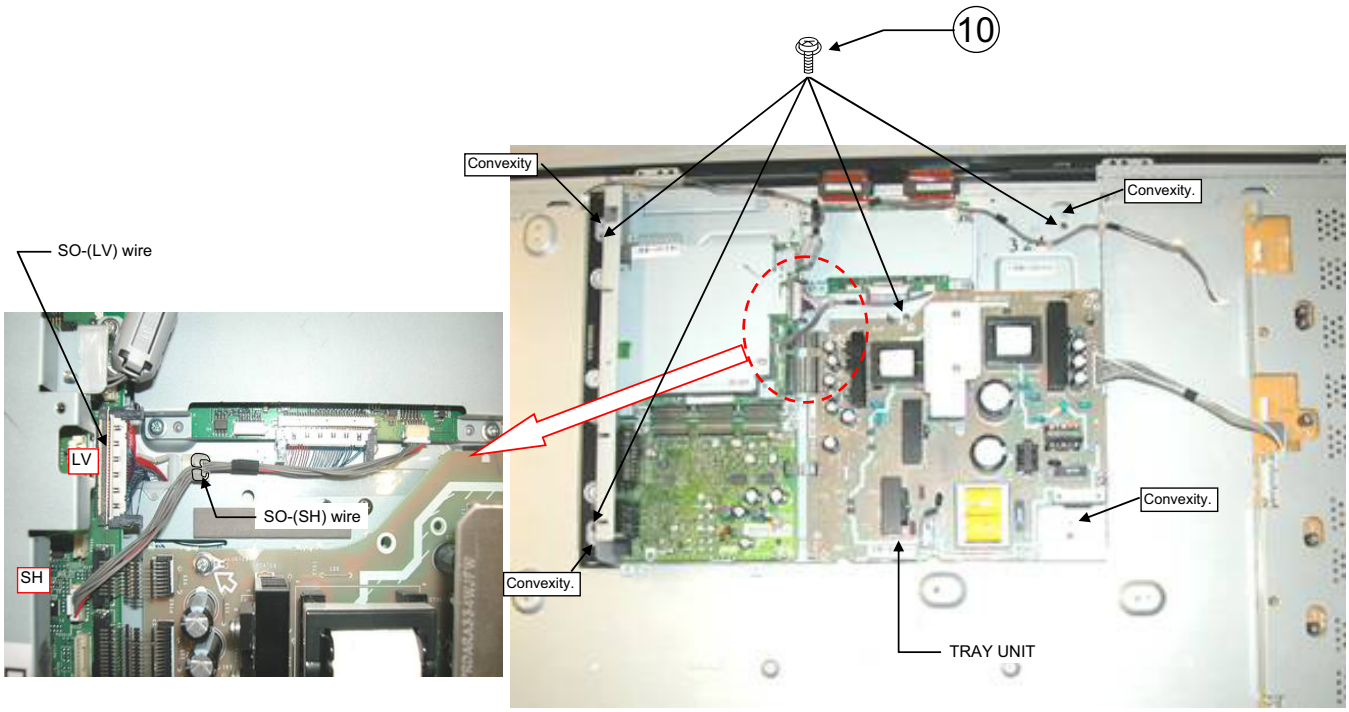
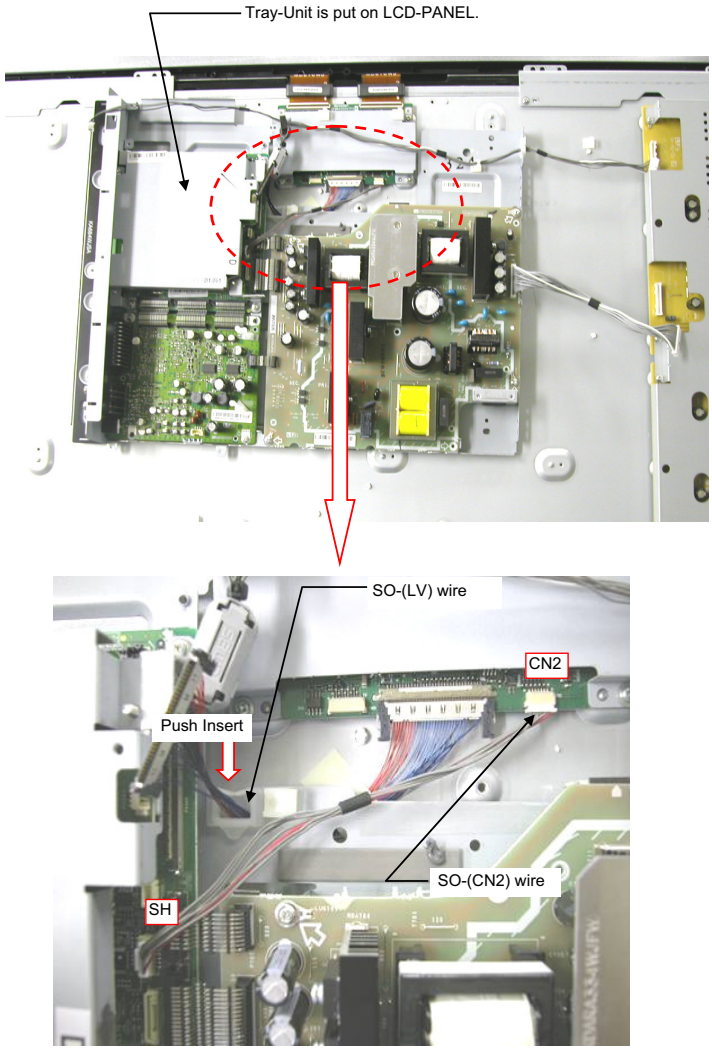
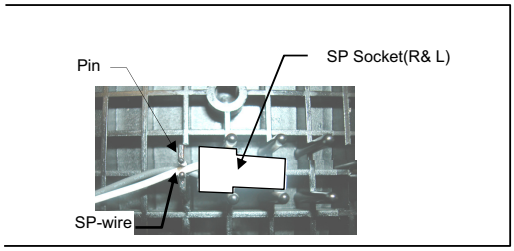


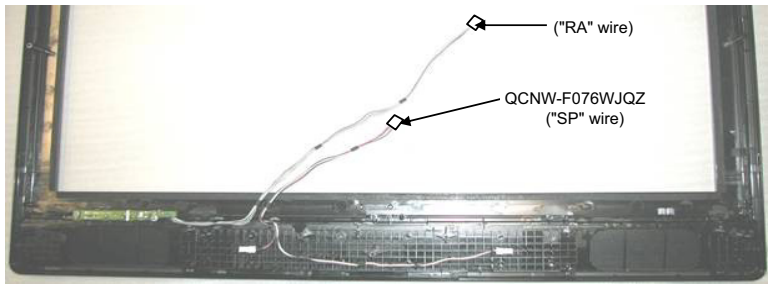
9. Remove the 4 lock screws (10) . detach the Tray Unit.

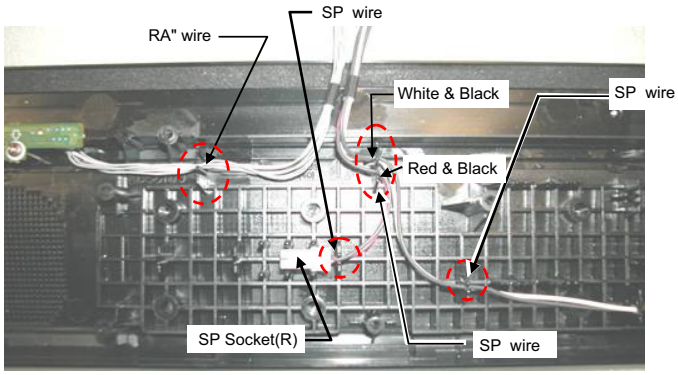


10. Remove all the connectors from PWBs.

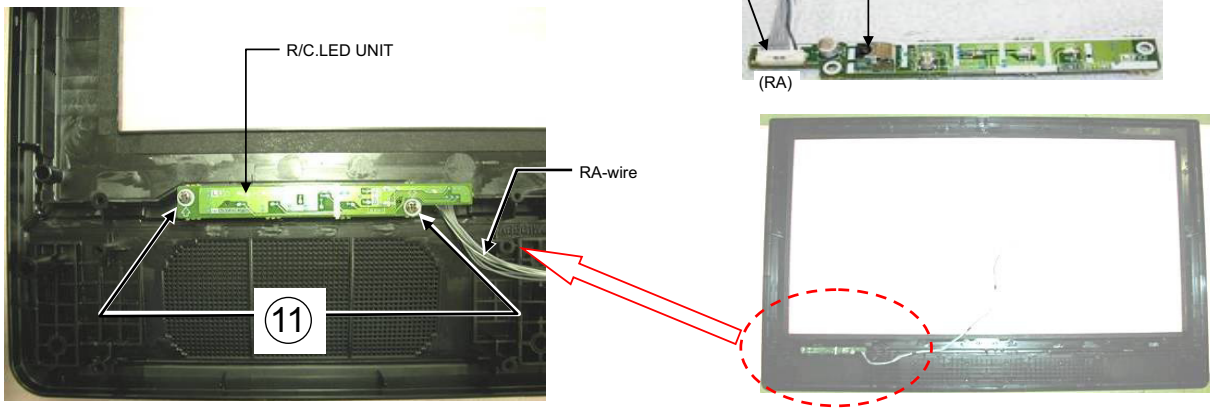








11. Remove the 2 lock screws ⑪ and detach the R/C. LED Unit.



CHAPTER 3. ADJUSTMENT PROCEDURE

[1] After replacement of any PWB and/or IC for repair, note the following.

When replacing the following units, be sure to prepare the new units loaded with updated software.

MAIN-UNIT: DUNTKD890FM20

- Note that an IC into which ROM data is written is available for MAIN-UNIT servicing (see below)

IC1901	VHi24LC2BiNEES	EDID (HDMI)
IC2303	RH-iXB731WJZZS	EDID (PC)

[2] SOFTWARE UPDATING

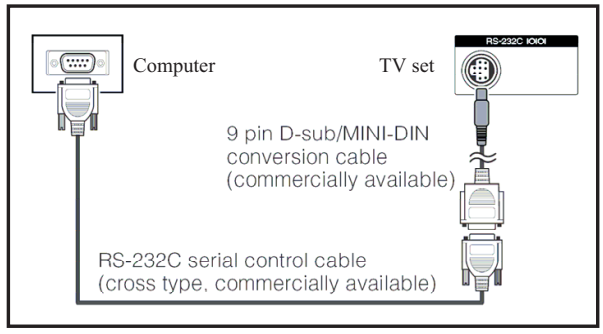
There are 3 methods to update software in the VCTp: I2C method, RS-232C HyperTerminal and RS-232C Tera Term method.

- RS-232C method is allowed when the TV is working properly and the action should be only software upgrade.
- I2C method is required when the VCTp fiash is empty or corrupted (it means, any software inside IC running).

1. RS-232C Method Description (HyperTerminal).

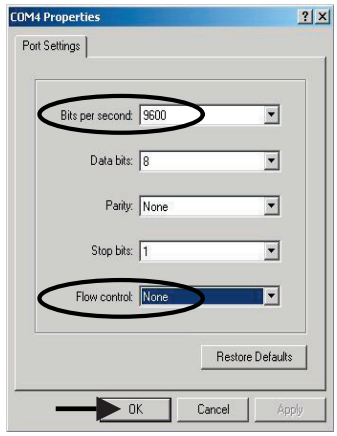
The hardware tools requirement are:

1. A Modem-null (Cross type) DB9 female to DB9 female cable.
2. An adaptor DB9 male to mini-Din 9 pin male cable (Sharp Code: QCNWGA015WJPZ)
3. Make the connections as indicated in the figure:

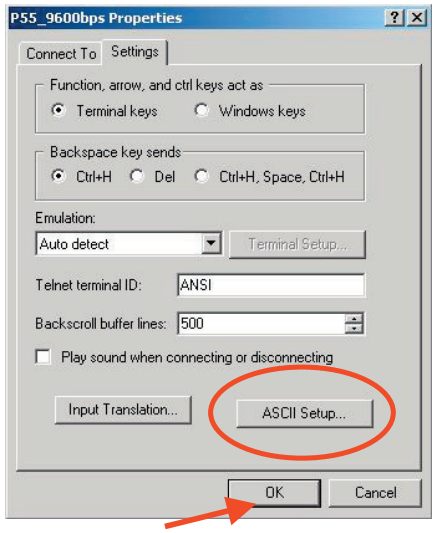


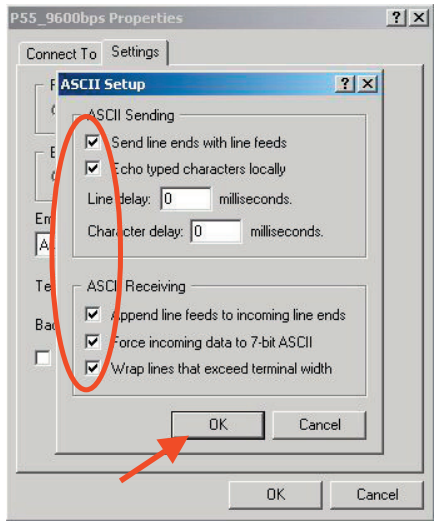
Before using RS-232C updating method is necessary to configure a Terminal PC software. HyperTerminal has been selected as a Terminal software because it's include in all Windows versions as an accessory, and you can find it inside "Accessories\Communications" folder. For this reason, please follow carefully the next steps:

1) First time HyperTerminal is used, it's necessary to configure some settings. Follows next action to configure two connection: low speed (9600bps) and high speed (115200bps).
2) Create a New Connection file with name "P55_9600bps".
3) Select a free COM port and select the Port Settings properties as follows:



4) Click on “File\Properties” menu for selecting the General and ASCII properties as follows:



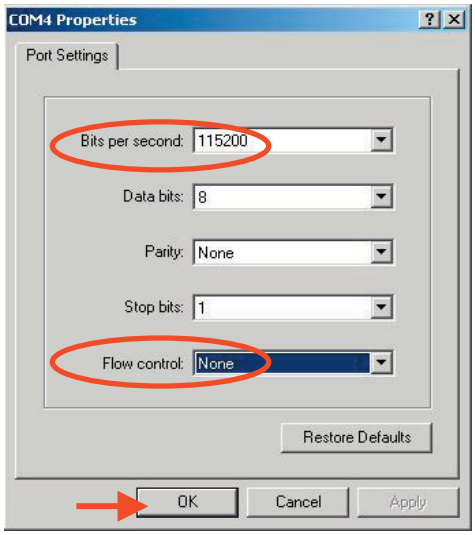


5) Select “New Connection” in the File Menu.

6) Answer “Yes” to close current connection and”Yes” to save session “P55_9600bps”.

7) Create a new connection with the name “P55_115200bps”.

8) Select a the same COM port used in item 2 and select the Port Settings properties as follows:

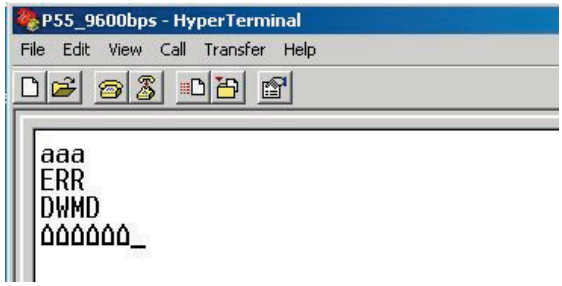


9) Select the same General and ASCII properties as item 3.

10)Close HyperTerminal session, answering “Yes” to close current connection and “Yes” to save session “P55_115200bps”.

To start updating session, click over “P55_9600bps” icon that you can find in the “START\All programs\Accessories\ Communications\HyperTerminal\HyperTerminal” folder and follow next procedure:

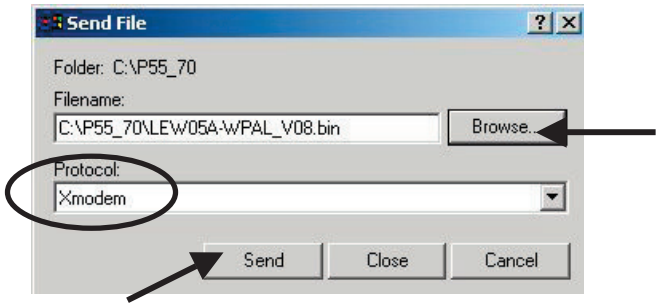
1) Check the connection between TV set and PC, sending a wrong command, as for example: “aaa”. TV set returns an “ERR” label as an syntaxis ERROR (Not correct order or sequence).



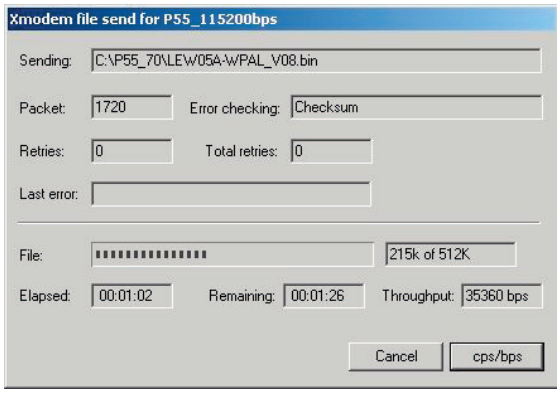
2) Send the command “DWMD” to enter TV set in Download Mode. The TV set answer sending same symbol continuosly. If this symbol character doesn’t appear, please don’t worry and pass to next step.

3) Close this connection and open “P55_115200bps” connection clicking over the “P55_115200bps” that you can find in “START\All programs\Accessories\ Communications\HyperTerminal\HyperTerminal” folder.

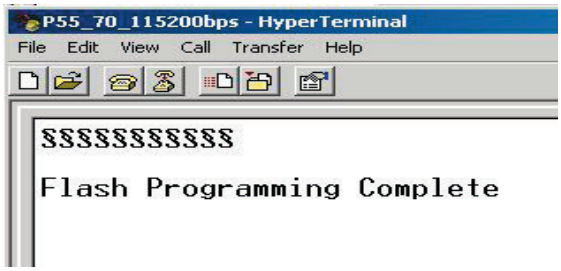
4) Using “Transfer\Send file...” menu, select desired file (.bin format) and the transmission protocol (Xmodem) as show below.



5) After press “Send” button the updating process starts as follows:



6) When flash update process finishes, the”Flash Programming Complete” label appears in the screen, the device automatically go to switch off, and in a few seconds go to switch on again.



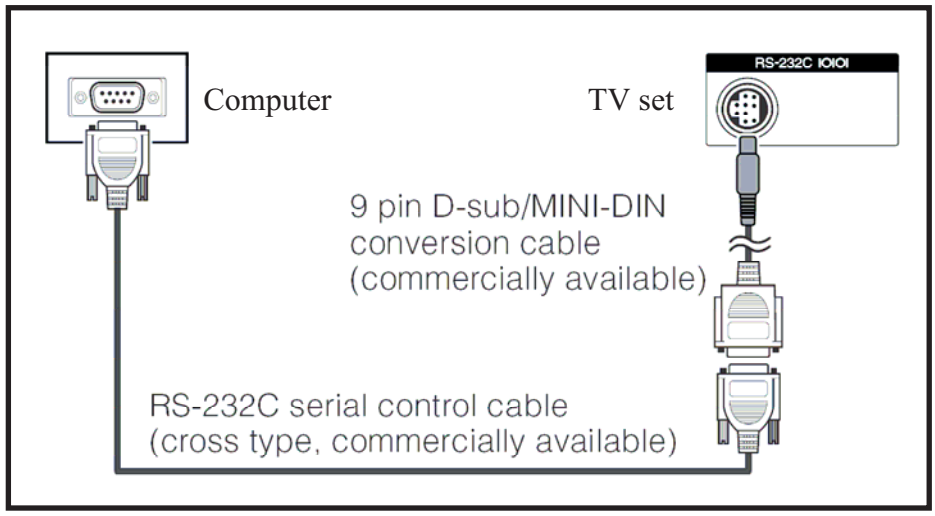
VERY IMPORTANT NOTE:

During the updating time, please don’t use the PC for other purpouses, in order to abolish communication problems between TV set and PC. If TV set was not updated properly, the TV won’t have the software to startup again, and you must follow the “I2C method” to update another time the TV set.

2. RS-232C Method Description (Tera Term)

The hardware tools requirement are:

1. A Modem-null (Cross type) DB9 female to DB9 female cable.
2. An adaptor DB9 male to mini-Din 9 pin male cable (Sharp Code: QCNWGA015WJPZ)
3. Make the connections as indicated in the figure:



Software requirements :

To upgrade VCTp software from RS-232C external connector is necessary to use a Tera Term (Pro) free software.

The URL of Tera Term home page is:

http://hp.vector.co.jp/authors/VA002416/teraterm.html

(The address may be changed in future)

Tera Term (Pro) supported operating systems:

MS-Windows 95 or upper

MS-Windows NT 3.5 and 4.0 or upper

Note.- For Windows 3.1 use Tera Term version 1.X.

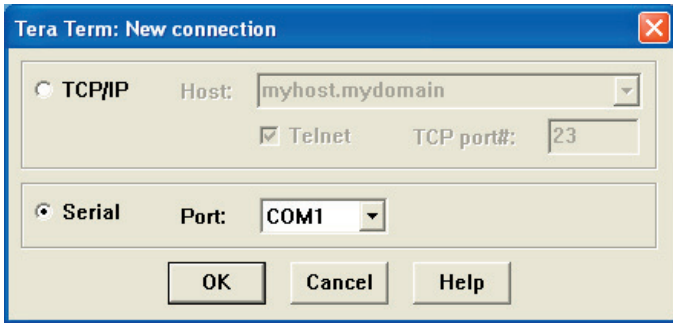
Copy all the distribution files to an empty floppy disk or temporary directory (for example C:\ TEMP).

Run SETUP.EXE and follow the instruction given by it.

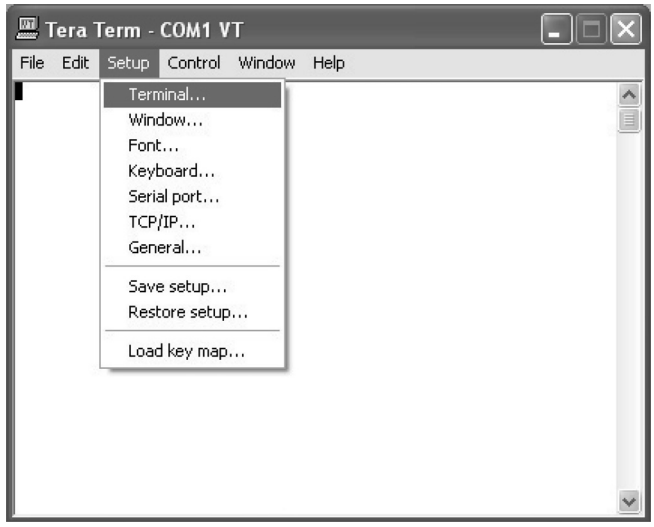
After the installation, the distribution ?les are no longer needed, you can delete them or may keep them in the floppy disk.

How to use Tera Term Pro :

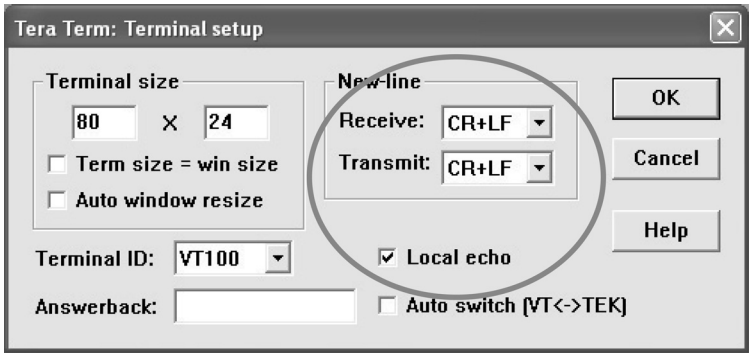
When the Tera Term (Pro) program is used, it's necessary to shape some settings. Follows next action to configure the connection:



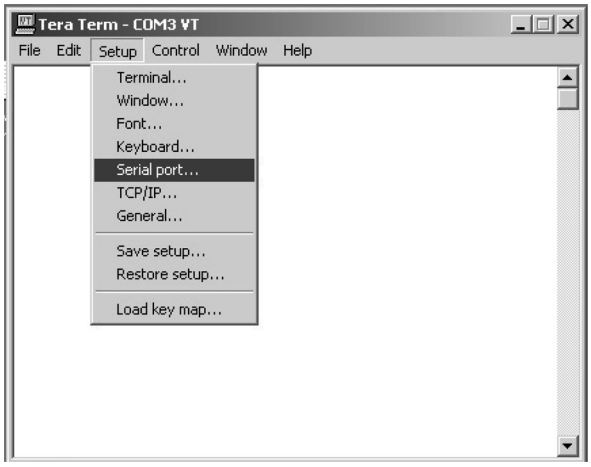
1) Select: **Serial→COM X→ O.K.**



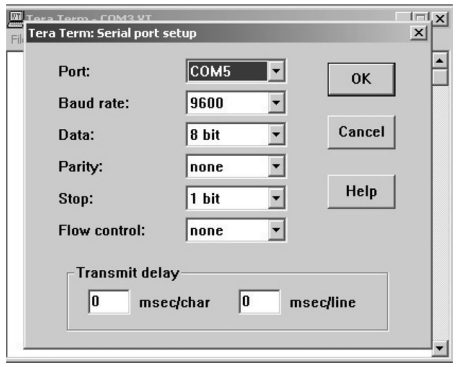
2) Select: **Terminal**



3) Choose the same options as the above picture.



4) Select: **Setup** → **Serial port** → **O.K.** Appear the follow screen:



5) Select follows settings:

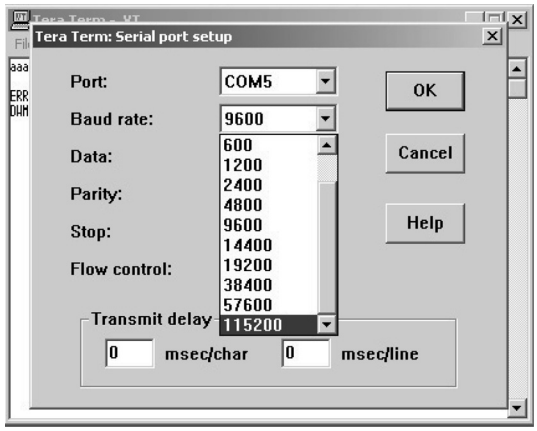
Serial port to use:	COM x
Baud rate:	9600
Data:	8 bits
Parity:	none
Stop:	1 bit
Flow control:	none
Enter O.K.	

6) Check the connection between TV set and PC, sending a wrong command, as for example: “aaa”. TV set returns an “err” label as an syntaxes ERROR (Not correct order or sequence).

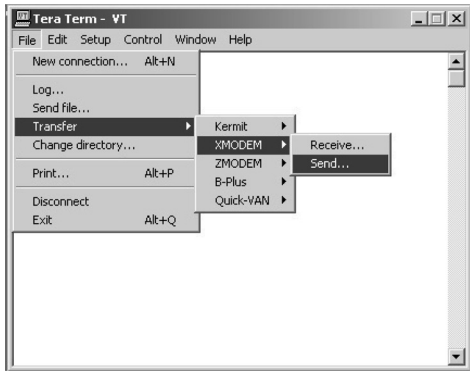
Send a “DWMD” (capital letters) command to enter TV set in Download Mode.

Change a baud rate to 115200.

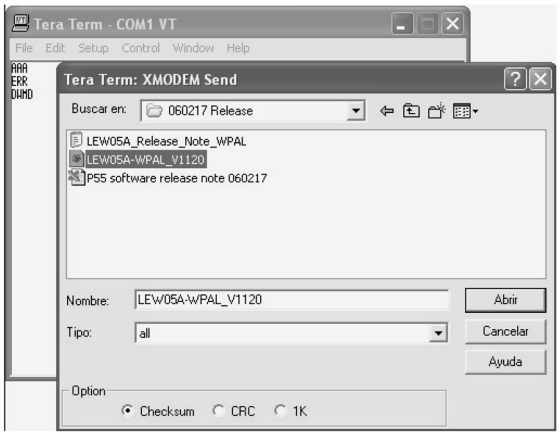
Select: **Setup** → **Baud rate** → **115200** → **O.K.**



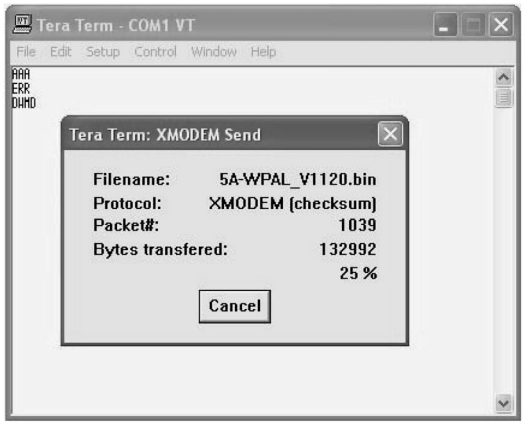
7) Select: **File** → **Transfer** → **XMODEM** → **Sent**



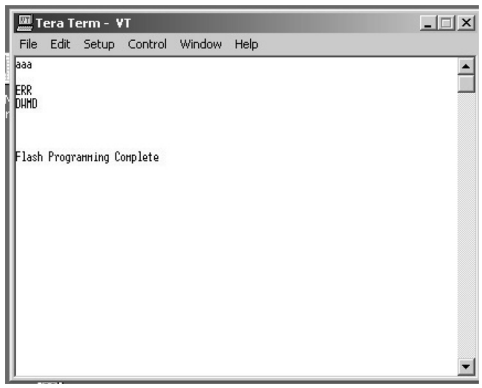
8) Choose the file for upgrade and click “Open”.



9) After select “Open” the upgrade process starts as follows:



10)When flash update process finishes, the “Flash programming complete” label appear in the screen , the device automatically go to switch off, and in a few seconds go to switch on again.



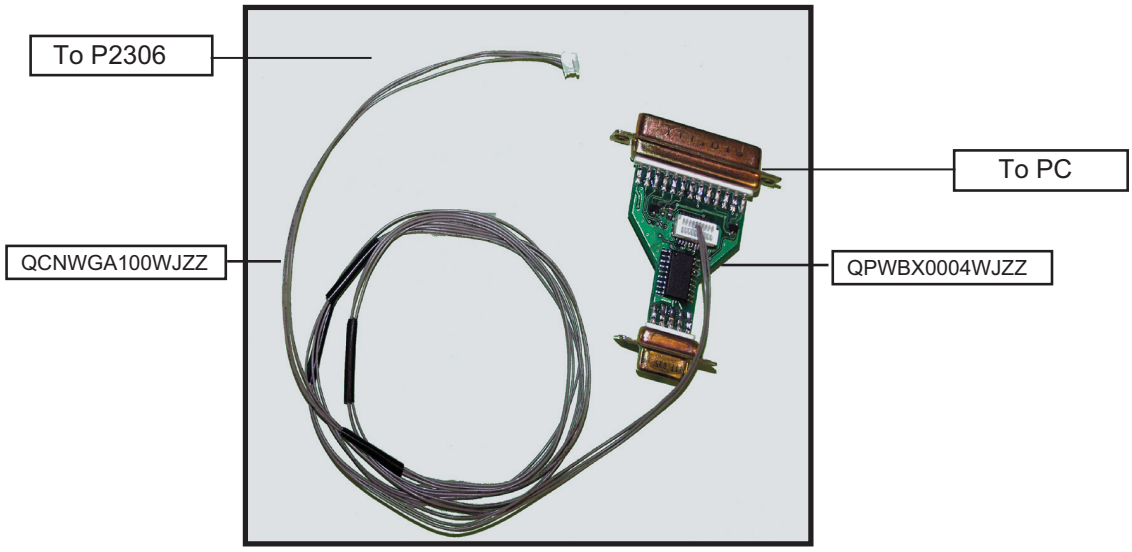
VERY IMPORTANT NOTE:

During the updating time, please don’t use the PC for other purposes, in order to abolish communication problems between TV set and PC. If TV set was not updated properly, the TV won’t have the software to startup again, and you must follow the “I2C method” to update another time the TV set.

3. I2C Method Description

The hardware tools requirement are:

1. A Parallel port I2C interface with 20 pin to 3 pin cable (Sharp Code: CKIT-0004WJV0).
2. Make the connections as indicated below:
   i) Connect Parallel port I2C interface to LPT port of the computer.
   ii) Connect the 20 to 3 pin cable from the I2C interface to the P2306 socket in the main board (XD603).



I2C Interface (CKIT-0004WJV0)

Before using I2C method is necessary to install Visual I2C software following next procedure.

1. Install Visual I2C release V3.2.3b from file (“Setup_Visual_I2C_v3-2-3b8h.exe”).

- It’s strongly recommended to accept the suggested default folder (“C:\Program Files\Micronas\Visual I2C”).

2. Install Visual I2C VCTp extension from file (“Setup_VI2C_for_VCT6wxyP_v0111.exe”).

- It’s interesting to change default folder to same as Visual I2C (“C:\Program Files\Micronas\Visual I2C”).
- During this installation process is possible to install also a complementary software to manage NVM memories .

This installation is not needed, for this reason uncheck the option when the setup program ask to you. In case of installation it’s interesting to change default folder to same as Visual I2C (“C:\Program Files\Micronas\Visual I2C”).

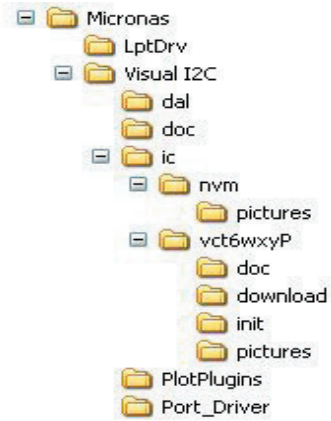
3. Install Parallel driver depending of your Windows version from existing files inside the Visual I2C installation folder “C:\Program Files\Micro nas\Visual I2C\Port_Driver”, following next criteria:.

1) Windows 98/Me (“Setup_LptDrv_v0104_9x.exe”).

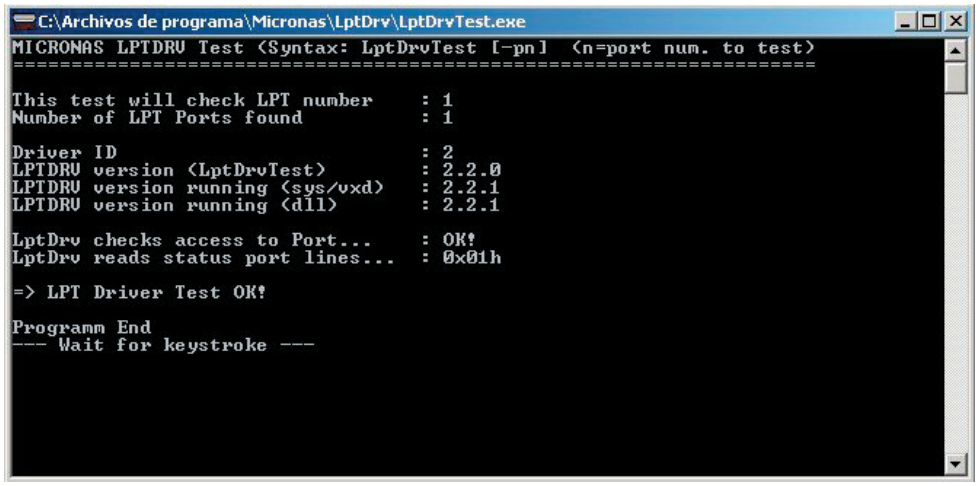
2) Windows NT (“Setup_LptDrv_v0104_NT_2000.exe”).

3) Windows Xp/2000 (“Setup_LptDrv_v020201_XP_2000.exe”).

After installing Visual I2C, the new generated file structure should look like this:

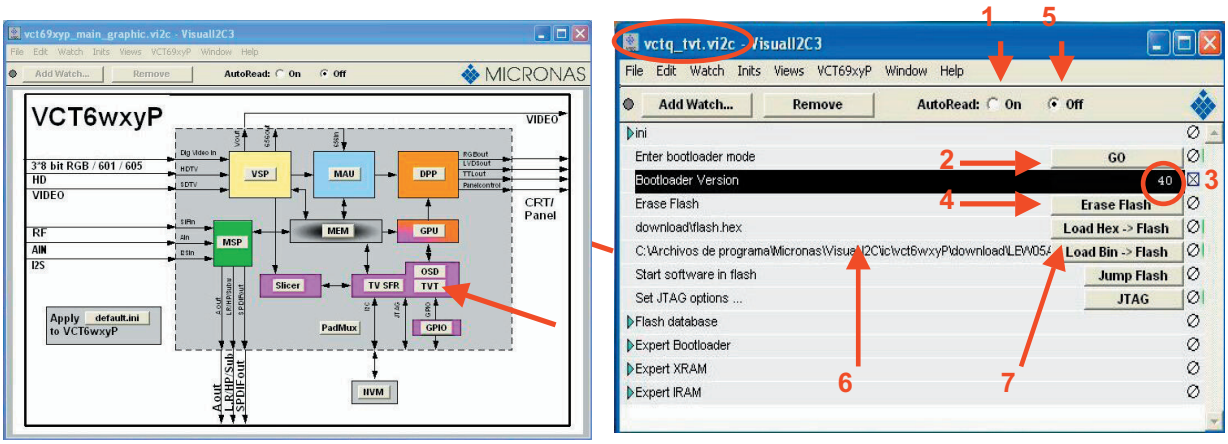


4. Check installation LPT driver using “C:\Program Files\Micronas\LptDrv\LptDrvTest.exe”. After run this software, if LPT driver is installed properly must appear this screen:



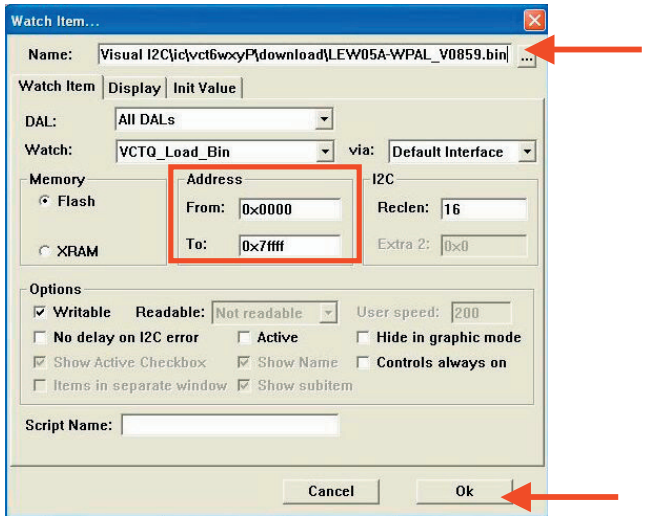
- If the result is not OK, check inside PC bios: Parallel Port Mode=EPP

To run VCTp software update program, please click over “VCTP” icon from “START\All programs\Micronas\Visual I2C\IC\VCTP” and after Visual I2C finish their starting process click on “TVT” module. As additional method, it’s possible to create a direct access to “C:\Program Files\Micronas\Visual I2C\ic\vct6wxyP\vctq_tvt.vi2c” and launch it from Windows Desktop.

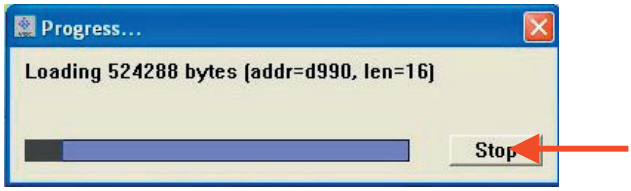


To start updating process follow next instructions:

1. Set Autoread in ON option.
2. Click on “GO” button.
3. Wait until “40” appears in Bootloader Version field.
4. Close DOS pop up windows pressing any key (“Press any key to continue...”.).
5. Click on the “Erase flash” button and wait for a seconds and set the AutoRead to OFF.
6. Check in the desired software version is selected in the “Load BinaFlash” option. If it’s not the correct one, please double click on the file name and select it. The first time this software is use it’s necessary to confirm write Addressing margin as from 0x0 to 0x7ffff.



7. Click on the “Load Bin → Flash” to start updating process.

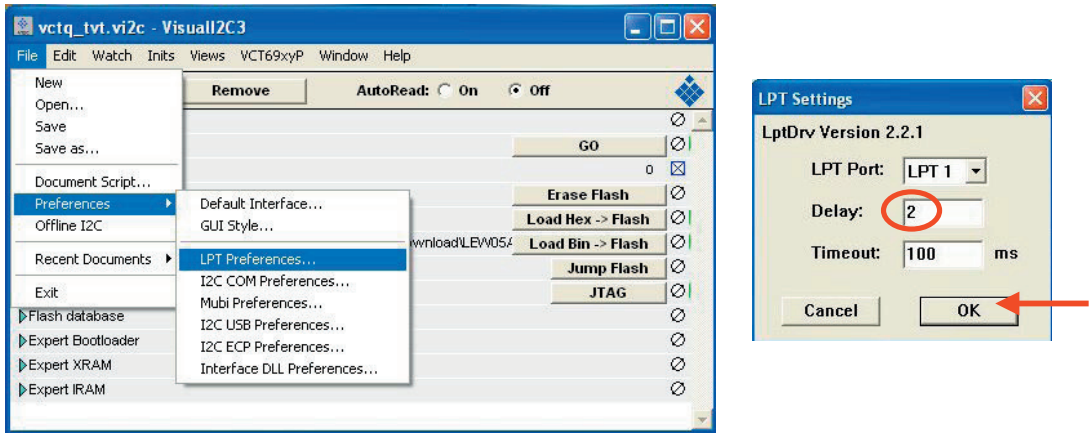


8. When the updating process finishes, the “Progress” pop up window automatically closes. If appears some problem during the updating process a error label appears in the filename information line.

If the TV has problem to enters in the”Bootloader mode”, it’s possible to force it by hardware method. This alternative method is described below:

1. Switch off TV set or hold VCTp RESET line to GND.
2. Pull down SCL line (pin 1) to GND (pin 3) in P2306 connector.
3. Switch on TV set or release VCTp RESET line.
4. Release SCL pull down after minimum of 2 seconds.
5. Check if VCTp is in bootloader mode with Autoread setting in ON.
6. Wait until “40” appears in Bootloader Version field.
7. Follow instruction from item 5 on software method.

Sometimes, depending on the PC hardware, the progress bar runs very fast (Normal time: 1 minute) or some error message appears in the filename information line. This means it’s necessary to modify some parameter of LPT port, for this reason select “LPT Preferences” on the “File\Preferences...” menu and increase Delay from “0” to “1” or “2” (normally, these values are the best choice).



4. How to update the Digital Board Software.

There are 2 methods to update the Digital Board Software on Flash Memory (IC4203) throught the Digital Processor (IC4001).

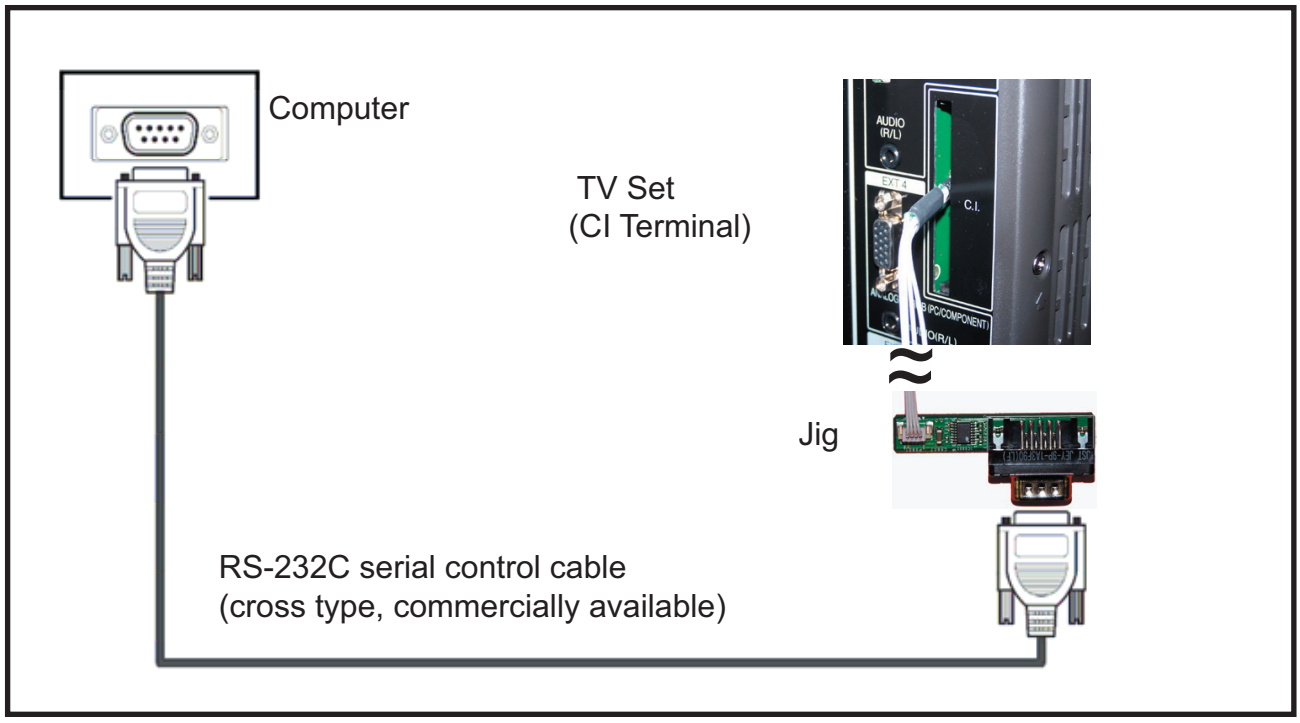
- Jig RS-232 Method (From PC trough RS-232C COM port).
- PCMCIA CARD (Compact Flash Memory) Method.

NOTE: *The PCMCIA method is only compatible with those PCs running XP Windows Version.*

4.1. Jig RS-232 Method Description

- **Hardware requirements:**

1. A modem null (Cross type) DB9 female to DB9 female cable.
2. The Jig Kit (Sharp Code: QCNWKA012WJZZ)
3. Make the connections as in the below figure.

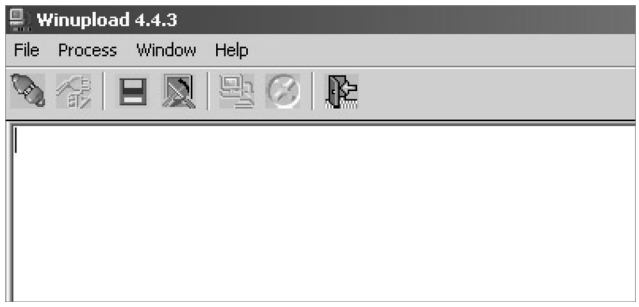


- **Software requirements :**

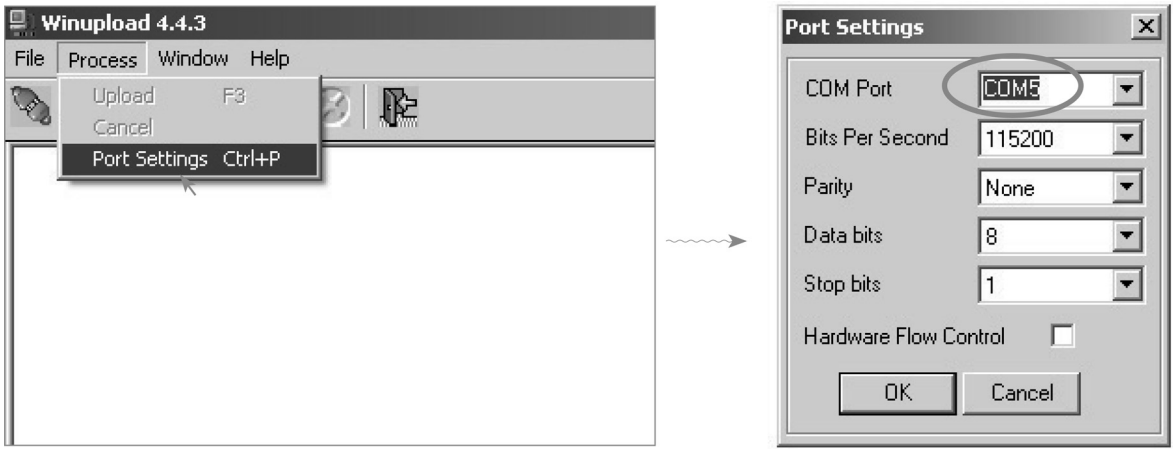
1. “Winupload” application software on PC.

- **How to setup the “Winupload” software for the first time:**

1. Start “Winupload”. It will appear the following picture.



2. Select the most suitable RS232 Serial Port from “Port Setting” - “Process” Menu.



3. Select the following settings from “Port Settings” Menu.

Bits Per Second: 115200

Parity: None

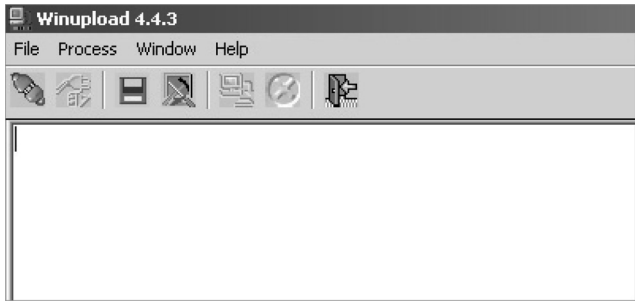
Data bits: 8

Stop bits: 1

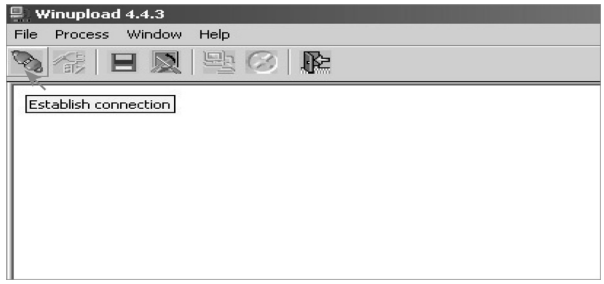
Hardware Flow Control: OFF

- **Procedure for updating the TV set.**

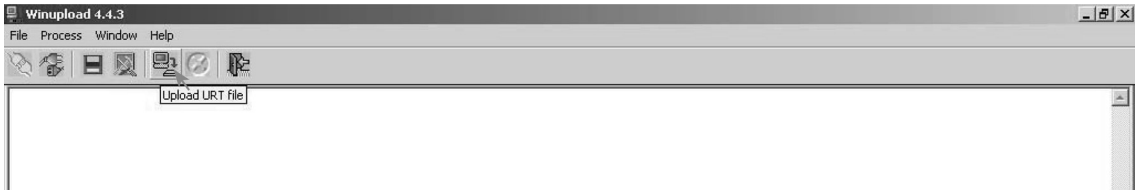
1. Switch off the TV set to be updated, in DTV mode.
2. Start “Winupload”. It will appear the following picture on PC.



3. Establish connection on Winupload Software.

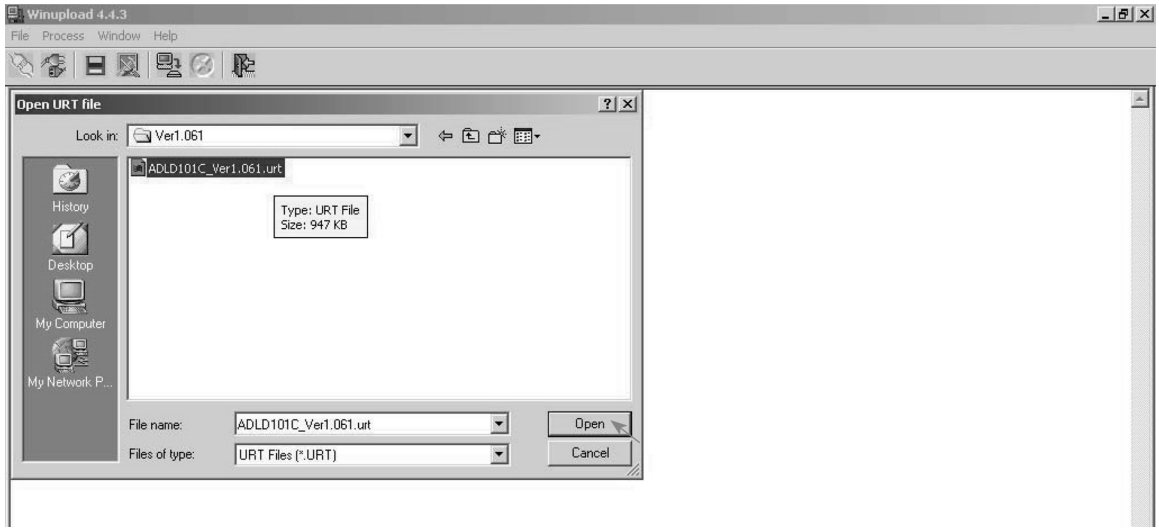


4. Select “Upload URT file”

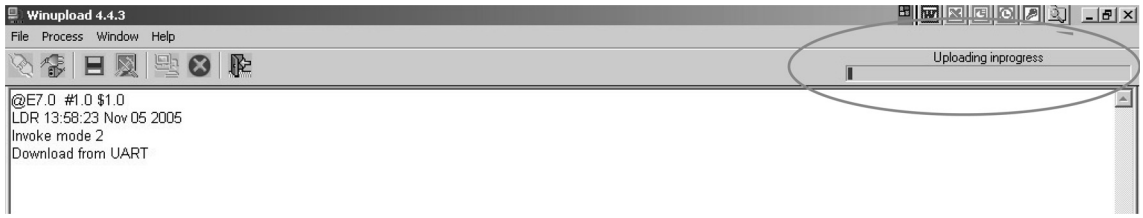


5. Select and open the “.urt” data file from data directory

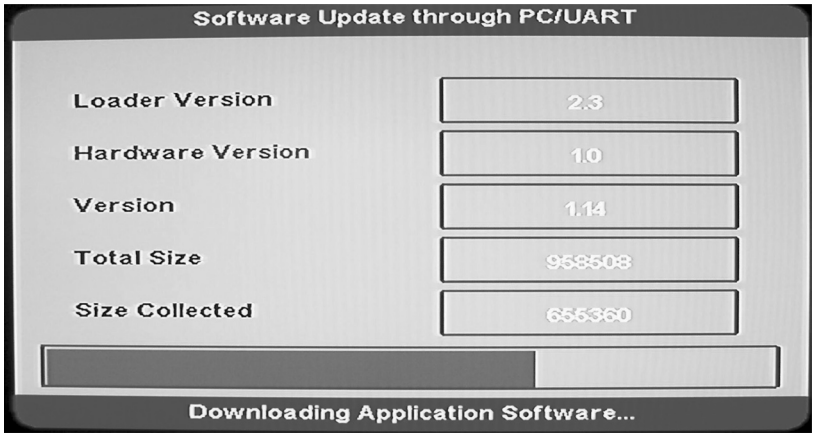
NOTE: Consider the version shown below just an example, may be is not the latest one, and could be different depending on the TV set destination (market/Country) or model.



6. Switch On the TV Set (previously in DTV Mode). The Uploading Process starts automatically.



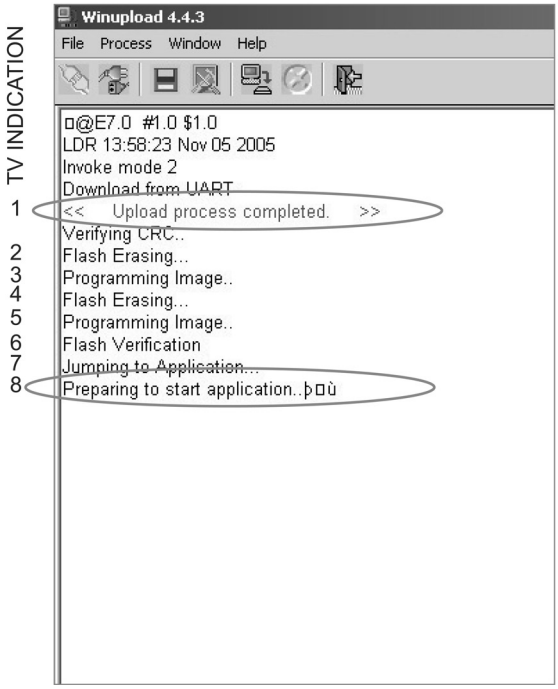
While the TV set is uploading the software, the following information is shown on the TV set screen.



Then, data transfer from PC to TV set finishes when the “Upload progress completed” label appears in the “Winupload” screen. Now, the TV set made some additional verification (Items #2 to #7). When the full uploading process is finished, in the “Winupload” window appears the label “Preparing to start application” for a new TV Set, and just now, in the TV screen of the updated set, appears a congratulations label (Item #8).

PC SCREEN PROGRESS

TV SCREEN PROGRESS



NOTE: *Do not turn off the TV set while the software updating was in progress.*

7. Unplug the AC cord.

8. Disconnect the Jig from TV Set.

- **Software Version verification procedure.**

1. Connect the AC cord and Switch On the TV Set.

2. Select DTV Menu on TV Set. The following On Screen Display will appear.

3. Select “Version”. The updated version can be verified.

NOTE: Consider the version shown above just as example, may be is not the latest one, and could be different depending on the TV set destination (market/Country) or model.

4.2. PCMCIA Card (Compact Flash) Method.

- **Hardware requirements:**

1. Compact Flash Memory Card.
2. PCMCIA Compact Flash Adapter or USB Multi Card Reader.

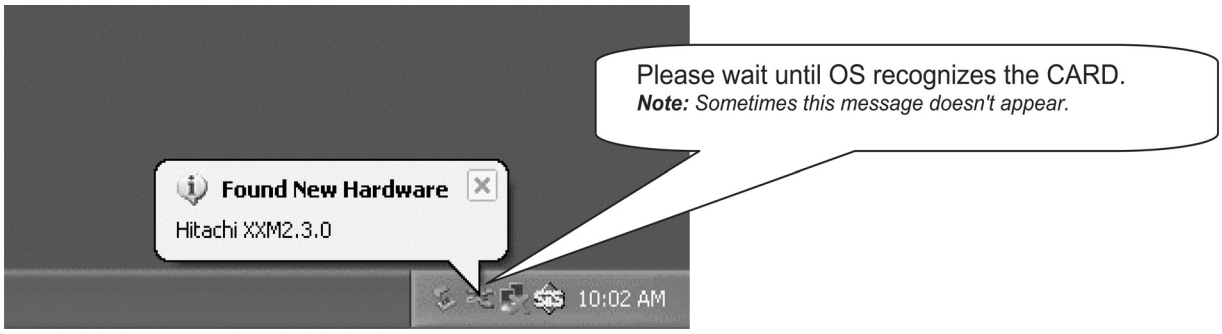
- **Software requirements:**

1. “StorageMediaManager1.0.1” application software, installed on PC.
2. “Loader 2.2” or higher application software, installed on DTV Set.

NOTE: *Storage Media Manager only for Windows XP.*

- **How to prepare the CF Card using the “Storage Media Manager 1.0.1” (SMM):**

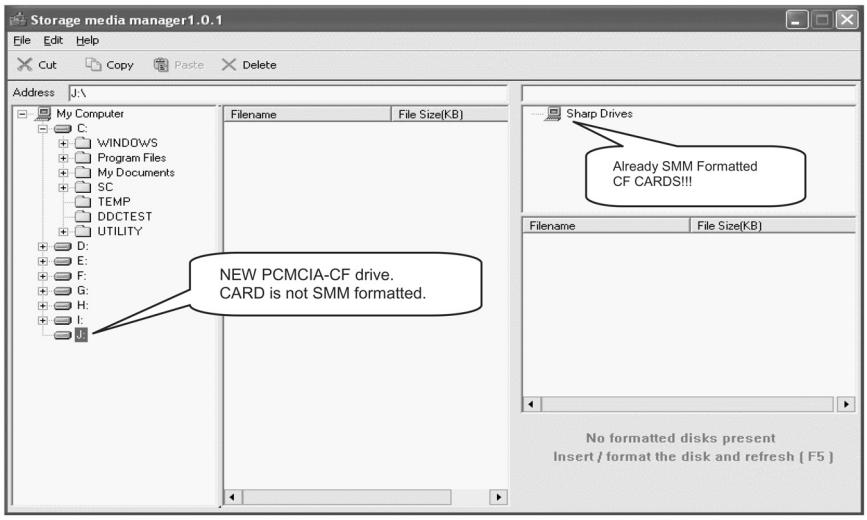
1. Insert PCMCIA (Compact Flash(CF) + CF-Adapter)



2. Execute SMM. If SMM does not appear or a Windows Error Box appears, please verify there are no USB media drives connected to the PC.

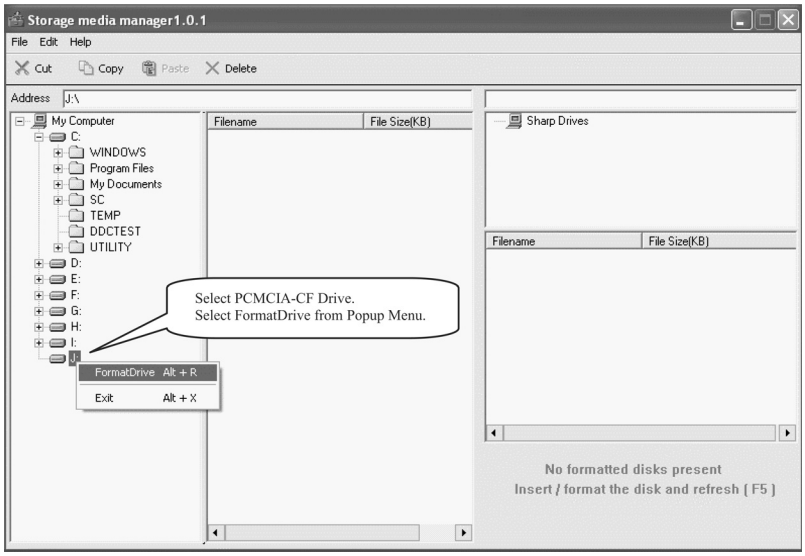
NOTE: *Consider that it's recommended remove unnecessary media during SMM execution. Probably, If you try to use an USB Multi Card Reader with SMM doesn't work fine.*

3. If the CF card has never been formatted for the SMM (is not same format type used in Windows), the SMM will show you the PCMCIA-CF drive as a Windows Media Drives, hanged of the “My Computer” tree (“J” Drive in the picture showed below).



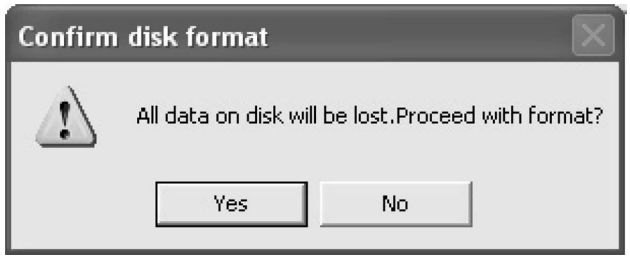
But, if the PCMCIA-CF card had been formatted previously by SMM, directly the PCMCIA-CF drive will appear in the SMM formatted Drives box (Sharp Drives). Please go to Item #6.

4. In case of not SMM formatted card, select PCMCIA-CD Drive and using the Right-Click Pop up Menu please format the Drive.

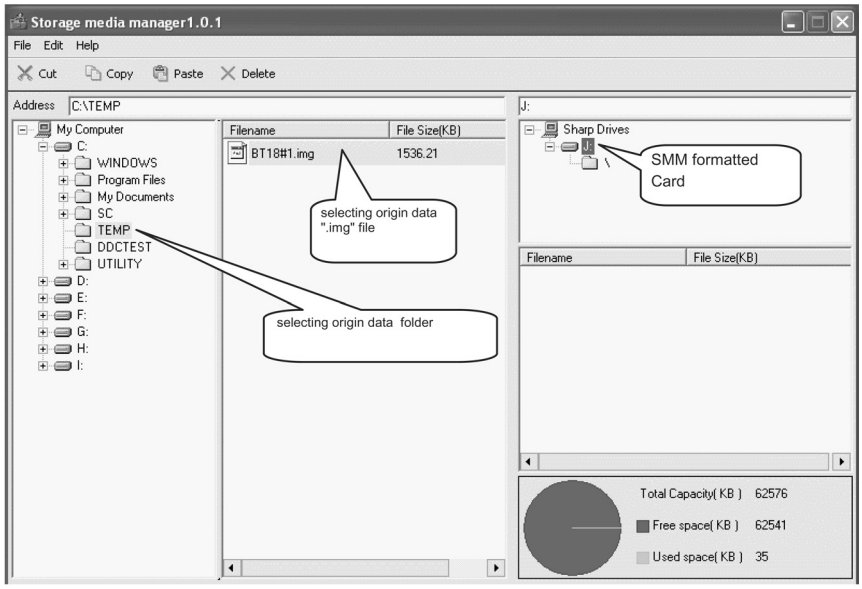


5. Formatting the CF card. Select “Yes” to confirm the action.

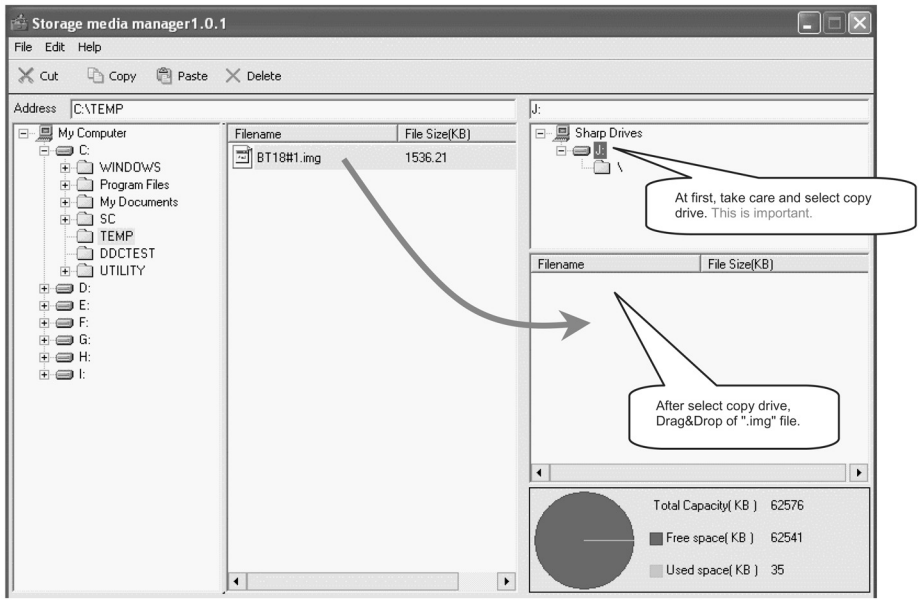
NOTE: *All FC’s data of the inside are erased.*



6. If SMM formatted card already appears under SHARP DRIVES box please continue, if not try to repeat from item #1. Select origin folder and “.img” data file to be written in the CF card.

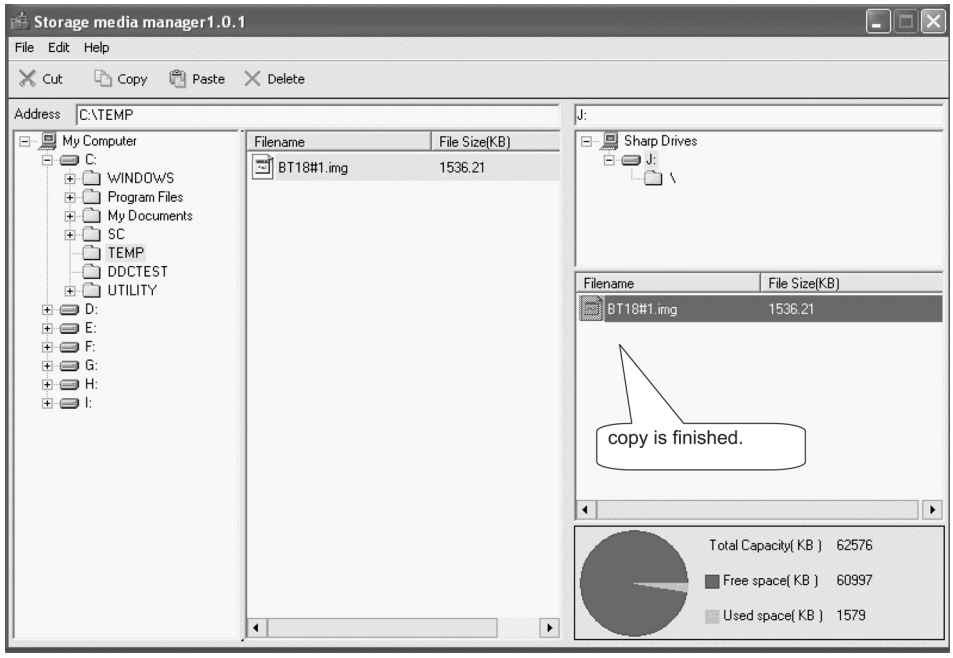


7. First of all, select copy target drive and then use Drag & drop for the “.img” file.



8. Wait, copy is in process.

9. Copy is finished, when the Copying progress bar disappears and the name of data file appears in the File Box.



10. Close SMM application.

11. Remove PCMCIA safely using the Windows Task bar pop up menu (Right-click over the Tray Icon).

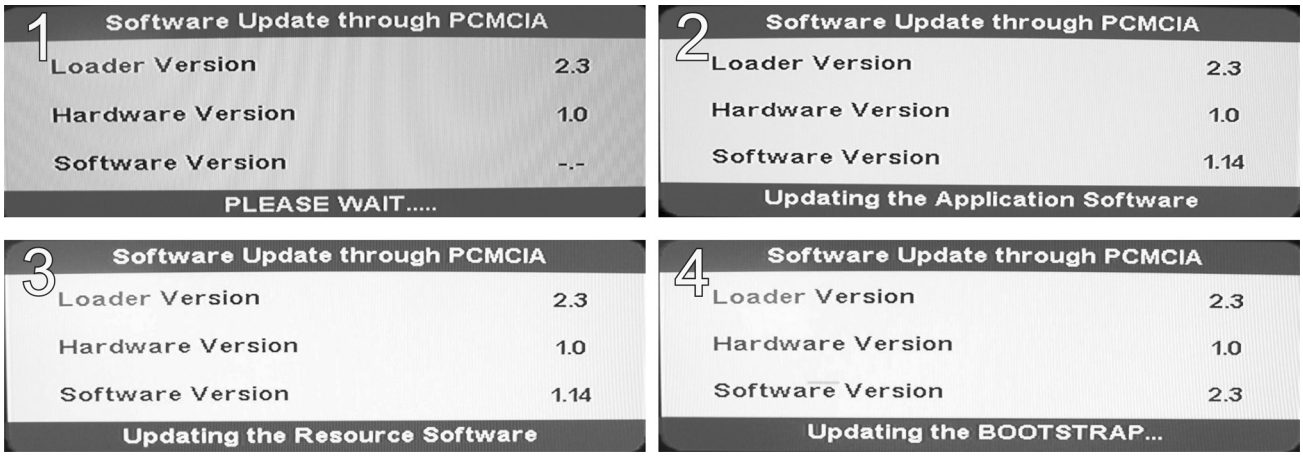
12. Now, the PCMCIA-CF card is prepared to update the TV set.

Procedure to update the TV Set using PCMCIA-CF Card:

1. Switch Off the LCD TV Set.

2. Insert PCMCIA Card (already prepared according the details before given at **"How to prepare the CF Card using the "Storage Media Manager 1.0.1" (SMM))".**

3. Switch On the LCD TV Set (it starts automatically the updating, Items #1 to #4).



4. Wait till the finishing indication is shown.

5. For checking the correct update, please Select DTV Menu on TV Set. The following On Screen Display will appear.

6. Select "Version". The updated version can be verified.

[3] Entering and exiting the adjustment process mode

1) Unplug the AC power cord of running TV set to force off the power.
2) While holding down the “VOL (-)” and “INPUT” keys on the set at once, plug in the AC power cord to turn on the power.

   The letter [K] appears on the screen.
3) Next, hold down the “VOL (-)” and “P( )” keys on the set at once.

   Multiple lines of orange characters appearing on the screen indicate that the set is now in the adjustment Process mode.

   If 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 power cord to force off the power. (When the power is turned off with the remote controller, once unplug the AC power cord and plug it in again. In this case, wait 10 seconds or so before plugging.)

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

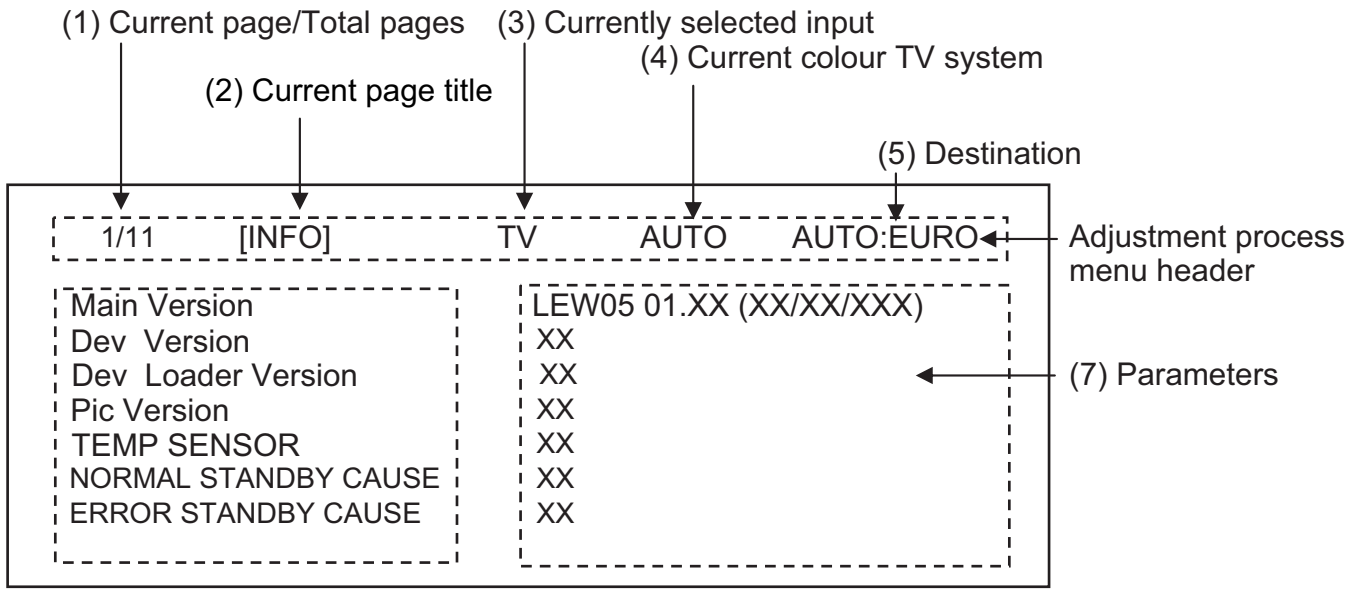
[4] Remote controller key operation and description of display in adjustment process mode.

1. key operation

Remote controller key	Main unit key	Function
P (/)	P (/)	Moving an item (line) by one (UP/DOWN)
(+ / –)	(+ / –)	Changing a selected item setting (+1/–1)
Cursor (/)	————	Turning a page (PREVIOUS/NEXT)
Cursor (/)	————	Changing a selected line setting (+10/–10)
on remote controller	button	Input source switching (toggle switching) (TV→EXT1→EXT2→EXT3→EXT4→EXT5)
OK	————	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] 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.)
1/11		[INFO]		
	1	Main Version	LEW05 01.001(2006/09/15D)1	Main microprocessor version
	2	Dev Version	1.10	DTV microprocessor version
	3	Dev Loader Version	2.3	DTV microprocessor-Loader version
	4	Pic Version	xxxxxx	Pic MICON version
	5	TEMP SENSOR	xxxxxx	
	6	NORMAL STANDBY CAUSE	1 RC_STANDBY	
	7	ERROR STANDBY CAUSE	[1] 0 00H 00M	Error standby cause Total operating time before error
			[2] 0 00H 00M	
			[3] 0 00H 00M	
			[4] 0 00H 00M	
			[5] 0 00H 00M	
2/11		[INIT]		
	1	Factory Init	[EURO/UK/ITALY/FRANCE/ RUSSIA] ENTER	Initialization to factory settings execution
	2	Inch Setting	26/32/37/42	Inch present setting
	3	Public Mode	OFF/ON	HOTEL MODE flag setting
	4	Center Acutime	xxH xxM	Main operating hours
	5	RESET	OFF/ON	Main operating hours reset
	6	Backlight Acutime	xxH xxM	Backlight operating hours
	7	RESET	OFF/ON	Backlight operating hours reset
	8	Picture Read Pos X	0-xxx	x-axis setting of picture data
	9	Picture Read Pos Y	0-xxx	y-axis setting of picture data
	10	Picture Read	ON/OFF	Start/stop of picture data
3/11		[PAL.SECAM.N358]		
	1	RF-AGC ADJ	ENTER	RF-AGC auto adjustment execution
	2	PAL+TUNER ADJ	ENTER	PAL TUNER auto adjustment execution
	3	PAL ADJ	ENTER	PAL auto adjustment execution
	4	TUNER ADJ	ENTER	TUNER auto adjustment execution
	5	CONTRAST SD	32	PAL contrast adjustment
	6	SECAM CB OFFSET	1	SECAM offset adjustment
	7	SECAM CR OFFSET	1	SECAM offset adjustment
	8	TUNER A DAC	29	TUNER DAC adjustment
	9	RF AGC	27	RF AGC adjustment
4/11		[COMP 15K]		
	1	COMP 15K ADJ	ENTER	COMP15K auto adjustment execcution
	2	COMP 15K CONTRAST	42	Contrast adjustment
5/11		[HDTV]		
	1	HDTV CONTRAST	41	HDTV Contrast adjustment
6/11		[SMPTE]		
	1	RF-AGC ADJ	ENTER	RF-AGC auto adjustment execution
	2	PAL+TUNER ADJ	ENTER	PAL TUNER auto adjustment execution
	3	PAL ADJ	ENTER	PAL auto adjustment execution
	4	TUNER ADJ	ENTER	TUNER auto adjustment execution
	5	CONTRAST SD	32	PAL contrast adjustment
	6	SECAM CB OFFSET	1	SECAM offset adjustment
	7	SECAM CR OFFSET	1	SECAM offset adjustment
	8	TUNER A DAC	29	TUNER DAC adjustment
	9	RF AGC	27	RF AGC adjustment
7/11		[M GAMMA INFO]		
	1	M GAMMA IN 1	160	W/B adjustment, gradation 1 input setting
	2	M GAMMA IN 2	320	W/B adjustment, gradation 2 input setting
	3	M GAMMA IN 3	480	W/B adjustment, gradation 3 input setting
	4	M GAMMA IN 4	640	W/B adjustment, gradation 4 input setting
	5	M GAMMA IN 5	800	W/B adjustment, gradation 5 input setting
	6	M GAMMA IN 6	960	W/B adjustment, gradation 6 input setting
	7	M GAMMA WRITE	OFF/ON	EEP writing of adjustment values
	8	M GAMMA RESET	OFF/ON	Initialization of adjustment values

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
8/11		[M GAMMA 1-3]		
	1	M GAMMA R 1	0	W/B adjustment, gradation 1R adjustment value
	2	M GAMMA G 1	0	W/B adjustment, gradation 1G adjustment value
	3	M GAMMA B 1	-8	W/B adjustment, gradation 1B adjustment value
	4	M GAMMA R 2	0	W/B adjustment, gradation 2R adjustment value
	5	M GAMMA G 2	0	W/B adjustment, gradation 2G adjustment value
	6	M GAMMA B 2	-11	W/B adjustment, gradation 2B adjustment value
	7	M GAMMA R 3	-1	W/B adjustment, gradation 3R adjustment value
	8	M GAMMA G 3	0	W/B adjustment, gradation 3G adjustment value
	9	M GAMMA B 3	-17	W/B adjustment, gradation 3B adjustment value
	10	M GAMMA WRITE	OFF/ON	EEP writing of adjustment values
9/11		[M GAMMA 4-6]		
	1	M GAMMA R 4	0	W/B adjustment, gradation 4R adjustment value
	2	M GAMMA G 4	0	W/B adjustment, gradation 4G adjustment value
	3	M GAMMA B 4	20	W/B adjustment, gradation 4B adjustment value
	4	M GAMMA R 5	-9	W/B adjustment, gradation 5R adjustment value
	5	M GAMMA G 5	0	W/B adjustment, gradation 5G adjustment value
	6	M GAMMA B 5	-42	W/B adjustment, gradation 5B adjustment value
	7	M GAMMA R 6	-4	W/B adjustment, gradation 6R adjustment value
	8	M GAMMA G 6	0	W/B adjustment, gradation 6G adjustment value
	9	M GAMMA B 6	41	W/B adjustment, gradation 6B adjustment value
	10	M GAMMA WRITE	OFF/ON	EEP writing of adjustment values
10/11		[ETC]		
	1	EEP CLEAR	OFF/ON	Clear of all adjustment value
	2	EEP CLEAR B	OFF/ON	Clear of adjustment value of B mode
	3	STANDBYCAUSE RESET	OFF/ON	Reset of STANDBY CAUSE
	4	AUTO INSTALLATION SW	0/1	1: * * * 0: * * *
	5	OPTION	0	
	6	COUNTRY	AUTO/EURO/UK	Destination setting
	7	L ERR RESET	0	LAMP ERR RESET Initializatio of L_ERR
	8	L ERR STOP	0/1	LAMP ERR Inhibit L_LRR detection
	9	DTV CLR	ENTER	Clear of DTV Setting
	10	I2C-OFF	ENTER	I2C DATA execution
11/11		[LCD]		
	1	OSC FREQ50	144	INVERTER drive frequency setting
	2	OSC FREQ60	144	INVERTER drive frequency setting
	3	PWM FREQ50	0	Frequency setting for INVERTER dimmer
	4	PWM FREQ60	0	Frequency setting for INVERTER dimmer
	5	PWM FREQ	409	Dimmer frequency adjustment
	6	PWM DUTY	227	Dimmer DUTY adjustment
	7	PWM CTRL	0	Dimmer CONTROL adjustment

[6] Special features

* ERROR STANDBY CAUSE (Page 1/11)

  The total time when the unit enters the standby due to operational error and cause of error are recorded on EEPROM as much as possible.

  The values can be used to locate the fault for repair.

* EEP CLEAR (Page10/11)

  Clear of process adjustment EEP value.

[7] Video signal adjustment procedure

* The adjustment process mode menu is listed in Section 5.

1. Signal check

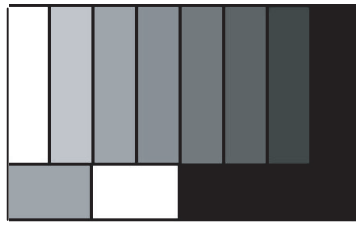
1. Signal generator level adjustment check (Adjustment to the specified level)

- Composite signal PAL : 0.7Vp-p ±0.02Vp-p (Pedestal to white level)
- 15K component signal (50 Hz) : Y level 0.7Vp-p ±0.02Vp-p (Pedestal to white level)
  PB, PR level 0.7Vp-p ±0.02Vp-p

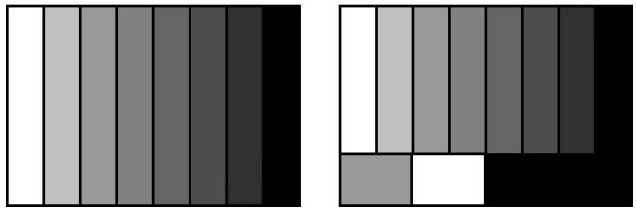
2. Entering the adjustment process mode

1. Enter the adjustment process mode according to Section 3.

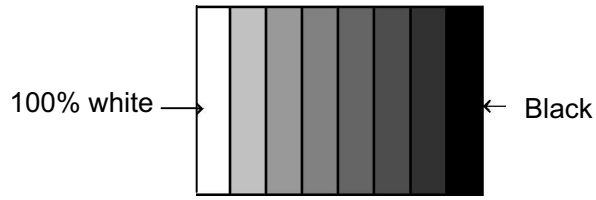
3. RF AGC adjustment

	Adjustment point	Adjustment Conditions	Adjustment procedure
1	Setting	[Signal] PAL Sprit Field Colour Bar RF signal UV [Terminal] TUNER	• Feed the PAL Sprit Field colour bar signal to TUNER. Signal level: 50 dB μV +0dB, -1dB (75Ω LOAD) [RF Signal]  ↑ 100% white
2	Auto adjustment performance	Adjustment process Page3	Bring the cursor on [■ RF AGC ADJ] and press [OK] [■ RF AGC ADJ OK] appears when finished.

4. PAL signal & tuner adjustment

	Adjustment point	Adjustment Conditions	Adjustment procedure
1	Setting	[Signal] PAL Full Field Color Bar Composite or RF signal [Terminal] EXT3 VIDEO IN TUNER	• Feed the PAL full field colour bar signal (75% colour saturation) to EXT3 VIDEO IN. • Feed the RF signal (PAL colour bar) to TUNER. • Make sure the PAL colour bar pattern (E-12) has the sync level of 7:3 with the picture level. [VIDEO IN SIGNAL] [RF Signal]  ↑ 100% white ↑ 100% white
2	Auto adjustment performance	Adjustment process Page3	Bring the cursor on [■ PAL + TUNER ADJ] and press [OK] [■ PAL + TUNER ADJ OK] appears when finished.

5. ADC adjustment (Component 15K)

	Adjustment point	Adjustment Conditions	Adjustment procedure
1	Setting	[Signal] COMP15K, 50Hz 100% Full Field Colour Bar [Terminal] EXT4 COMPONENT IN	• Feed the COMPONENT 15K 100% full field colour bar signal (100% colour saturation) to EXT4 COMPONENT IN. 
2	Auto adjustment performance	Adjustment process Page4	Bring the cursor on [■ COMP15K ADJ] and press [OK] [■ COMP15K ADJ OK] appears when finished.

[8] White Balance Adjustment

Adjustment gradation values (IN) appear on page 7/11 of process adjustment, and adjustment initial values (offset value) appear on pages 8/11 and 9/11. For white balance adjustment, adjust the offset values on pages 8/11 and 9/11.

[Condition of the unit for inspection] Modulated light: MAX (+8)

[Adjustment reference device] Minolta CA-210

[Adjustment]

Check that the values on page 7/11 of process adjustment are set as below. If not, change them accordingly.

M GAMMA IN 1	160	M GAMMA IN 2	320
M GAMMA IN 3	480	M GAMMA IN 4	640
M GAMMA IN 5	800	M GAMMA IN 6	960

1) Display the current adjustment status at point 6. (Page 8/11 of process adjustment)

   The display for checking the adjustment status is toggled by pressing the “6” button on the remote control.

   (Normal OSD display → “6”→ display for check (OSD disappears) → “6” →normal OSD display → • • •)

2) Read the value of the luminance meter.

3) Change M GAMMA R6/M GAMMA B6 (Adjustment offset value) on page 9/11 of process adjustment so that the values of the luminance meter approach x =0.272 and y =0.277.

   (Basically, G is not changed. If adjustment fails with R and B, change G. When G is lowered, the weaker of R and B must be fixed.)

4) If G is changed in step 3), change the values of M GAMMA G1-M GAMMA G5 on pages 8/11 and 9/11 of process adjustment as follows. When not changed, go to step5).

   Offset value of M GAMMA G1 = (Offset value of M GAMMA G6) * (160/960)

   Offset value of M GAMMA G2 = (Offset value of M GAMMA G6) * (320/960)

   Offset value of M GAMMA G3 = (Offset value of M GAMMA G6) * (480/960)

   Offset value of M GAMMA G4 = (Offset value of M GAMMA G6) * (640/960)

   Offset value of M GAMMA G5 = (Offset value of M GAMMA G6) * (800/960)

5) Display the adjustment status of the current point 5. (Each time the “5” button on the remote control is pressed, the adjustment status check display is toggled.)

   (Normal OSD display → “5” → Check display (OSD disappears) → “5” → Normal OSD display → • • •)

   Change M GAMMA R5/M GAMMA B5 (adjustment offset value) on page 9/11 of process adjustment so that the values of the luminance meter approach x = 0.272 and y = 0.277.

6) Repeat step 5) for points 4, 3, 2, and 1.

[Adjustment reference standard value]

Adjustment spec	±0.004	Inspection spec	±0.006 (point 1)
Adjustment spec	±0.002	Inspection spec	±0.004 (Excluding the above-mentioned)

[9] Initialization to factory settings

Caution: When the factory settings have been made, all user setting data, including the channel settings, are initialized. (The adjustments done in the adjustment process mode are not initialized.) Keep this in mind when initializing these settings.

	Adjustment item	Adjustment conditions	Adjustment procedure
1	Factory settings	See to below caution	• Enter the adjustment process mode. • Bring the cursor to [Factory Init] on page 2/11. • Use the [Volume +/-] key to select a region from [EURO/UK/ITALY/ FRANCE/RUSSIA] and press the [ENTER]. “EXECUTING” appears and initialization starts. After a while, “OK” appears and the setting is complete. NOTE: Never turn the power off during initialization.
			When performing factory settings (while displaying page 2 of adjustment process), confirm that the item “Inch Setting” or the panel size displayed in the upper right corner corresponds to each panel size.
			The following settings will be back to their factory ones. 1. User settings 2. Channel data (e.g. broadcast frequencies) 3. Maker option setting 4. Password data

After adjustments, exit the adjustment process mode. To exit the adjustment process mode, unplug the AC power cord from the outlet to forcibly turn off the power. When the power is turned off with the remote control, unpulug the AC power cord and plug it back in (wait apporximately 10 seconds before plugging in the AC power cord).

[10] Lamp error detection

1. Function description

This LCD colour television has a function (lamp error detection) to be turned OFF automatically for safety when the lamp or lamp circuit is abnormal.

If the lamp or lamp circuit is abnormal, or some other errors happen, and the lamp error detection is executed, the following occur.

1- The main unit of television is turned OFF 5 seconds after it is turned ON. (The power LED on the front side of TV turns from green to red.)

2 - If the situation “1” happens 5 times sequentially, television can not be turned ON. (The power LED remains red.)

2. Countermeasures

When television is turned OFF by the lamp error detection mentioned above, it enters the adjustment process with the power LED red. Entering the adjustment process turns OFF the error detection and turns ON TV. This enables the operation check to detect errors in the lamp or lamp circuit

Check whether “L ERROR RESET” on point 7, page 10/11 of the adjustment process is 1 or more. If it is 1 or more, it indicates the lamp error detection was executed. After confirming that the lamp or lamp circuit is normal, reset the lamp error counter pushing “OK” in the R/C. After resetting counter the label “***OK***” appears on Screen.

3. Reset standby cause error list

After confirming that the lamp error counter has been erased, select “STAND BY CAUSE RESET” on point 3, page 10/11 of the adjustment process and select ON using the right cursor. For execute press “OK” in the R/C and the label “***OK***” appears on Screen.

[11] Public Mode (Hotel Mode)

1. How to Enter in the Public Mode (Hotel Mode).

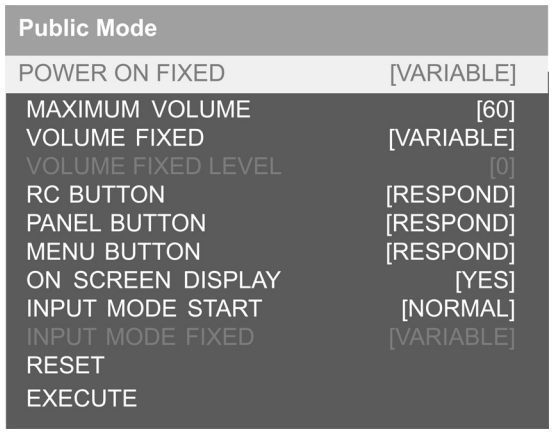
Turn on the power and enter in the Adjustment Process mode (ADJ1 or Service Mode) as usual.

In the [INIT], Page 2/11 of Service, turns ON the Public Mode option.

Turn off TV by pressing Main Power switch.

While pressing “VOL+” and “P^” keys at the same time, press Main Power switch for more than 2 seconds.

After this sequence the TV will turn on showing the Public Mode setting screen as follows:



Is possible to select each item of function by pressing cursor UP/DOWN keys on the remote control or CH(∧)(∨) keys on the LCD TV.

The setting position of each item of functions is made by pressing cursor RIGHT/LEFT keys on the remote control or VOL(+)(-) keys on the LCD TV.

Select EXECUTE position after you set all function, and press cursor RIGHT/LEFT keys on the remote control or VOL(+)/(-) keys on the LCD TV for confirmation.

2. Public Mode Settings.

1. POWER ON FIXED [VARIABLE ↔ FIXED]

   When it is set to “FIXED” the TV is impossible to be switch off by Main Switch or Remote Control.

2. MAXIMUM VOLUME [0 ↔ 60]

   Is possible to set the maximum volume at limited level.

3. VOLUME FIXED [VARIABLE ↔ FIXED]

   Is possible to fix the sound volume at limited level.

   When “FIXED” is selected the sound volume before limited is fixed.

4. VOLUME FIXED LEVEL [0 ↔ 60]

   If “FIXED” has been selected, is possible to set a fixed volume at the level that is chosen.

5. RC BUTTON [RESPOND ↔ NO RESPOND]

   If “NO RESPOND” is selected, the remote control keys are inoperative.

6. PANEL BUTTON [RESPOND ↔ NO RESPOND]

   If “NO RESPOND” has been selected, the set’s keys remain deactivated (Except POWER key).

7. MENU BUTTON [RESPOND ↔ NO RESPOND]

   If “NO RESPOND” has been selected, “MENU” key, of remote control, is inoperative.

8. ON SCREEN DISPLAY [YES ↔ NO]

   If “NO” has been selected, the On Screen Display does not appear.

9. INPUT MODE START [NORMAL → TV (X) → INPUT1 → INPUT2 → INPUT3 → INPUT4 → INPUT5 ↵]

   When any other item than “NORMAL” has been selected, the sets will start in a selected input mode at the next power-on.

10. INPUT MODE FIXED [VARIABLE → FIXED]

    “FIXED” has been selected, any channels and input modes other than those selected at the start mode cannot be picked up.

11. RESET

    Cancel all Public Mode settings. (It returns to the factory settings)

12. EXECUTE

    Select this item, and press cursor RIGHT/LEFT keys on the remote control or VOL(+)/(-) keys on the LCD TV for confirmation the functions settings.

CHAPTER 4. TROUBLESHOOTING TABLE

[1] TROBLESHOOTING TABLE

Power unit operation check.

Are the power cord and harness in the unit properly connected ?
- No → Connect the power cord and harness properly, and turn on the power.
- Yes ↓

Is F701 normal ?
- No → Are both ends of C704,C705(37) and C706(37) short-circuited when checking their resistance values?
  - No → Replace F701.
  - Yes → C704 ••• Check VA701 , VA702 and D701. C705(37)/ C706(37) ••• Check IC704 and 705.
- Yes ↓

Is a voltage of BU5V applied to pin (20) of P701? (Set the main power SW to OFF.)
- No → Is a voltage of approx. 8 - 15V to pin (4) of IC705?
  - No → Check IC705, IC708, D725 and Q724.
  - Yes → Check short circuit of 5V line (D737, C752, etc.).
- Yes ↓

Is it a symptom that the relay clatters twice as soon as the main power SW is set to ON and the power is not supplied?
- Yes → Does the same symptom appear even if R858 (2.7k) is removed and the power is supplied again ?
  - No → Check IC704, D728, D762 and D736. If there are no problems, check the resistance value between pins (1) and (6) of P704. When the value is low (several Ω several hundred Ω), disconnect P704. If the value is still low, the parts of 24V line are defective. When the resistance value is several kΩ, check the inverter unit.
  - Yes → Check Q724, D731 , D734, IC707, D751 , D753, D754, D741 , D759 and D746.
- No ↓

Does a relay noise sound? (Once)
- No → Are PCON1 and 2 [pins (1) and (2) of P702] at Hi (3V or more)?
  - No → There is a possibility that control by P-CON is not performed properly. Check whether the "PS-ON" and "PS-ON2" signals are sent from pins (97) and (91) of IC1710 (FPGA) of MAIN-UNIT.
  - Yes → CCheck peripheral circuits of Q712, Q713, Q721, Q723 and RY701.
- Yes → Check peripheral circuits of D738, R828 and D735.

No sound (1) (during the reception of TV broadcasting)

No audio output during UHF/VHF reception

Checklist;
1) Is the volume set to MIN or MUTE on the remote control? ••• Set the desired volume.
2) Are headphones connected to HEADPHONE (J1301)? ••• Disconnect them.
3) Is ANT-CABLE disconnected or connected improperly? ••• Connect it correctly as per the operation manual.

Is the audio signal (L/R) sent from pins (28) and (27) of IC3002 (VCT)?
NO →
Is the SIF signal (SIF_IN+) sent to pin (31) of IC3002 (VCT)?
YES →
Check whether +5V and +8V are supplied to pins (33) and (18) of IC3002 respectively. Or, check peripheral circuits.

(AV-UNIT) YES ↓
Is the audio signal of pins (3) and (5) of IC303 (OP-AMP) sent properly?
NO →
Check SC2704 and P1201 or peripheral circuits. Is the S-MUTE signal "L"?

NO ↓
Is the audio signal (SIF) sent from pin (1) of CONNECTOR (SC2705)?
YES →
Check pin (31) of IC3002 (VCT) and peripheral circuits.

YES ↓
Is the audio signal of pin (4) of IC301/IC302 (AUDIO-AMP) sent properly?
NO →
Check HEAD-PHONE (J1301) or peripheral circuits.

(TUNER) NO ↓
Is the audio signal (SIF) sent from pin (12) of IC201 (IF-DEMOD)?
YES →
Check connector (P201/SC2705) and peripheral circuits.

YES ↓
Is the audio signal output of pins (2) and (4) of P301 (AUDIO-CONNECTOR) normal?
NO →
Check P301 (AUDIO-CONNECTOR) and peripheral circuits.

NO ↓
Is the SIF signal sent to pins (23) and (24) of IC201 (IF-DEMOD)?
YES →
Check IC201 and peripheral circuits.

YES ↓
Check Speaker (right and left) and wire harness.

NO ↓
Is the IF signal sent from pin (8) of TUNER (TU201)?
YES →
Check FL202 and peripheral circuits.

NO ↓
Check whether 5V (CONT) and 5V are supplied to pins (1) and (7) of TUNER (TU201) respectively. Check SDA/SCL and AGC signal.
YES →
Replace TUNER (TU201).

No sound from external input devices (2)

No sound from an external input device connected to EXT1 (SCART1).

<EXT1>
Is IN1-L audio signal sent from pin (6) of SCART1 terminal (J1101) to pin (14) of IC3002 (VCT)?
Is IN1-R audio signal sent from pin (2) of SCART1 terminal (J1101) to pin (13) of IC3002 (VCT)?

NO → Check pins (6) and (2) of SCART1 and connection to an external input device.

YES

Is the audio signal properly sent from pins (28) and (27) of IC3002?

NO → Check IC3002 or peripheral circuits.

YES

Is the audio signal of pins (1) and (7) of IC303 (OP-AMP) sent properly?

NO → Check IC303 or peripheral circuits.

YES

Is the audio output signal of pins (13) and (16) of IC302/IC301 (MAIN-AMP) normal?

NO → Check IC302/IC301 (MAIN-AMP), HEADPHONE and peripheral circuits.

YES

Check CONNECTOR (P301) and Speaker (right and left).

No sound from external input devices (2)

No sound from an external input device connected to EXT2 (SCART2).

<EXT2>
Is IN2-L audio signal sent from pin (27) of SCART2 terminal (J1101) to pin (12) of IC3002 (VCT)?
Is IN2-R audio signal sent from pin (23) of SCART2 terminal (J1101) to pin (11) of IC3002 (VCT)?

NO → Check pins (27) and (23) of SCART2 and connection to an external input device.

YES

Is the audio signal properly sent from pins (28) and (27) of IC3002?

NO → Check IC3002 or peripheral circuits.

YES

Is the audio signal of pins (1) and (7) of IC303 (OP-AMP) sent properly?

NO → Check IC303 or peripheral circuits.

YES

Is the audio output signal of pins (13) and (16) of IC302/IC301 (MAIN-AMP) normal?

NO → Check IC302/IC301 (MAIN-AMP), HEADPHONE and peripheral circuits.

YES

Check CONNECTOR (P301) and Speaker (right and left).

No sound from external input devices (2)

No sound from an external input device connected to EXT3.

<EXT3>
Is IN3-L audio signal sent from pin (3) of J1201 terminal to pin (16) of IC3002?
Is IN3-R audio signal sent from pin (5) of J1201 terminal to pin (15) of IC3002?

NO → Check pins (3) (J1201) and (5) (J1201) of EXT3 and connection to an external input device.

YES

Is the audio signal properly sent from pins (28) and (27) of IC3002?

NO → Check IC3002 or peripheral circuits.

YES

Is the audio signal of pins (1) and (7) of IC303 (OP-AMP) sent properly?

NO → Check IC303 or peripheral circuits.

YES

Is the audio output signal of pins (13) and (16) of IC302/IC301 (MAIN-AMP) normal?

NO → Check IC302/IC301 (MAIN-AMP), HEADPHONE and peripheral circuits.

YES

Check CONNECTOR (P301) and Speaker (right and left).

No sound from external input devices (2)

No sound from EXT4 (AUDIO) connecting an external input device.

<EXT4>
Is D-SUB-L audio signal sent from J2702 to pin (15) of IC2704?
Is D-SUB-R audio signal sent from J2702 to pin (2) of IC2704?

YES

Is D-SUB-L audio signal sent to pin (10) of IC3002?
Is D-SUB-R audio signal sent to pin (9) of IC3002?

YES

Is the audio signal properly sent from pins (28) and (27) of IC3002?

NO → Check IC3002 or peripheral circuits.

YES

Is the audio signal of pins (1) and (7) of IC303 (OP-AMP) sent properly?

NO → Check IC303 or peripheral circuits.

YES

Is the audio output signal of pins (13) and (16) of IC302/IC301 (MAIN-AMP) normal?

NO → Check IC302/IC301 (MAIN-AMP), HEADPHONE and peripheral circuits.

YES

Check CONNECTOR (P301) and Speaker (right and left).

No sound from external input devices (2)

No sound from EXT5 (AUDIO) connecting an external input device.

↓

<EXT5>
Is HDMI-L audio signal sent from J2701 to pin (14) of IC2704?
Is HDMI-R audio signal sent from J2701 to pin (5) of IC2704?

↓ YES

Is HDMI-L audio signal sent to pin (10) of IC3002?
Is HDMI-R audio signal sent to pin (9) of IC3002?

NO → Check output of pins (13) and (3) of IC2704 and peripheral circuits.

↓ YES

Check that Option-HDMI Setup-Audio select is set to “Analog”.

↓ OK

Is the audio signal properly sent from pins (28) and (27) of IC3002?

NO → Check IC3002 or peripheral circuits.

↓ YES

Is the audio signal of pins (1) and (7) of IC303 (OP-AMP) sent properly?

NO → Check IC303 or peripheral circuits.

↓ YES

Is the audio output signal of pins (13) and (16) of IC302/IC301 (MAIN-AMP) normal?

NO → Check IC302/IC301 (MAIN-AMP), HEADPHONE and peripheral circuits.

↓ YES

Check CONNECTOR (P301) and Speaker (right and left).

No sound except from speakers (3)

No audio output from the headphones.

↓

Is there audio output on pins (2) and (3) of the headphone terminal (J1301)?

↓ NO

Is audio input/output signal of pins (3) and (5)/(1) and (7) of IC303 (OP-AMP) normal?

↓ NO

Is audio output signal (SPK-OUT L/R) properly sent from pins (28) and (27) of IC3002 (VCT)?

↓ NO

Check audio input signal of pin (31) of IC3002 (VCT), pins (18) and (33) of the power line, pins (84) and (83) of I2C-LINE, and peripheral circuits.

No sound except from speakers (3)

No audio output from EXT1 (SCART) terminal.

Checklist:
1) Is the MUTE button on the remote control set to ON? ••• Set to OFF.
2) Check the connection to external devices. ••• Is there any improper connection?

Is audio signal sent to pins (3) and (1) of EXT1 (J1101)? — YES → Check the connection to EXT1 (J1101) and external devices.

NO

Is S-MUTE-LINE [IC1710 (pin 100)] at H?
(Check Q1106/Q1105 operation.)

NO

Is audio signal sent from pins (24) and (23) of IC3002? — NO → Check the power supply 8/5 V pins (18) and (33) of IC3002 and peripheral circuits.

YES

Check the audio signal output line from pins (24) and (23) of IC3002 to pins (3) and (1) of EXT1.

No sound except from speakers (3)

No audio output from EXT2 (SCART) terminal.

Checklist:
1) Is the MUTE button on the remote control set to ON? ••• Set to OFF.
2) Check the connection to external devices. ••• Is there any improper connection?

Is audio signal sent to pins (24) and (22) of EXT2 (J1101)? — YES → Check the connection to EXT2 (J1101) and external devices.

NO

Is S-MUTE-LINE [IC1710 (pin 100)] or S2-MUTE-LINE [IC3003 (pin26)] at H?
(Check Q1102/Q1101 operation.)

NO

Is audio signal sent from pins (22) and (21) of IC3002? — NO → Check the power supply 8/5 V pins (18) and (33) of IC3002 and peripheral circuits.

YES

Check the audio signal output line from pins (22) and (21) of IC3002 to Q1103/Q1104/Q1201/Q1202.

No sound except from speakers (3)

↓

No audio output from AUDIO OUTPUT terminal.

↓

Checklist:
1) Is the MUTE button on the remote control set to ON? ••• Set to OFF.
2) Check the connection to external devices. ••• Is there any improper connection?

↓

Is audio signal sent to pins (13) and (15) [L/R (white) (red)] of AUDIO OUTPUT terminal (J1201)?

YES → Check the connection to AUDIO OUTPUT terminal (J1201) and external devices.

↓ NO

Is S-MUTE-LINE [IC1710 (pin 100)] at H?
(Check Q1204/Q1203 operation.)

↓ NO

Is audio signal sent from pins (22) and (21) of IC3002?

NO → Check the power supply 8/5 V pins (18) and (33) of IC3002 and peripheral circuits.

↓ YES

Check the audio signal output line from pins (22) and (21) of IC3002 to Q1103/Q1104/Q1201/Q1202.

DTV troubleshooting

The unit does not enter the DTV mode. Or, the DTV menu does not appear. — YES → Go to “The unit does not enter the DTV mode. Or, the DTV menu does not appear.”

NO

No video output during DTV reception. — YES → Go to “No video output during DTV reception.”

NO

No audio output during DTV reception. — YES → Go to “No audio output during DTV reception.”

The unit does not enter the DTV mode. Or, the DTV menu does not appear.

Digital UNIT:
Is a voltage supplied from IC4701(3.3V-REG)/IC4704(1.8V-REG)? — NO → Check peripheral circuits of IC4701/IC4704 and pin(7) of IC4701.

YES

Do X4001/X4002 oscillate? — NO → Check peripheral circuits of X4001/X4002.

YES

D-TUNER UNIT:
Is a voltage of 5V supplied from IC205(SW) and IC206(SW)? — NO → Check peripheral circuits of IC205/IC206.

YES

Is a voltage applied to pin(20) (I2CSEL) of P202?
(High=3.3V) — NO → MAIN UNIT:
Check around the pin (12) of IC1710(FPGA).

YES

Is CLK/DATA signal sent to pins (21) and (22) of P202 and pins (1) and (13) of IC204 (COFDM). — NO → Check peripheral circuits of IC202(COFDM)/ IC4001(D-Processor).

YES

Does X202 oscillate? — NO → Check peripheral circuits of X202.

YES

Check IC202(COFDM)/IC4001(D-Processor).

No video output during DTV reception. Colour of Images are not right.

D-TUNER UNIT:
Is data FED[0:7] sent from pins (3),(4),(5),(6),(8),(9),(10) and (11) of P202?
NO → Check R272 and R273.

YES

DIGITAL UNIT:
Are video signals (R/G/B,CVBS) sent from C4639/C4640/C4641/C4625?
NO → Check R4011(AC8pin),R4013(AC9pin) and IC4001(D-Processor).

YES

Are video signals (R/G/B,CVBS) send from the C4636/C4637/C4638 and emitters of Q4607?
NO → Check Q4601-Q4605,Q4607 and their peripheral circuits.

YES

MAIN UNIT:
Is video signal (CVBS) sent from pin (2) of IC2705(SW).
NO → Check power supply and pin (1) of IC2705(SW).

YES

Are video signals (R/G/B,CVBS) fed from pins (179),(180),(181) and (184) of IC3002?

YES

Are scrambled images not displayed?
YES → DIGITAL UNIT:
Check 5V output of pin (1) of IC4702.
Check 5V of pin (6) of Q4401.

NO

Perform the same check as the model P70E or GD8E.

No audio output during DTV reception. Sound is low.

DIGITAL UNIT:
Is audio signal fed to pins (5) and (10) of IC4604 (OP-AMP)?
NO → Check R4002(AD2pin) and IC4001(D-Processor).

YES

Is audio signal sent from pins (7) and (8) of IC4604 (OP-AMP)?
NO → Check power supply of IC4604(OP-AMP) and its peripheral circuits.

YES

MAIN UNIT:
Is audio signal sent to pin (3) and (13) of IC2704 (SW)?
NO → heck power supply and pins (9) and (10)of IC2704(SW) and audio signal input of pins (4) and (11) of IC2704.

YES

Perform the same check as the model P70E or GD8E.

<On input of the tuner (U/V)> **No picture on the display (1)**

No picture appears on LCD during the tuner (U/V) reception.

Checklist:

1) Is “INPUT SOURCE” button on the remote control set up correctly? ••• See the operation manual and set “INPUT SOURCE” to “TV”.
2) Is MENU-PICTURE-Contrast/Brightness set to “MIN”? ••• Set it to an appropriate level.
3) Is ANT-CABLE disconnected or connected improperly? ••• Connect it correctly as per the operation manual.

YES

Is level of pins (5) and (4) of tuner (TU201) and pins (10) and (11) of IC201 (IF-DEMOD) at H?

NO → These are communications lines for control (I2C). Follow the path and check whether they are forced to L (PULL_DOWN).

YES

Is the video signal (IF) sent from pin (8) of tuner (TU201)?

NO → Check the tuner (TU201) and peripheral circuits.

YES

Is video signal sent from pin (17) of IC201 (IF-DEMOD)?

NO → Check FL201 (SAW-FIL), IC201 and peripheral circuits.

YES

Is the video signal VIN1 (ATUNER-CVBS) sent to pin (191) of IC3002 (VCT)?

NO → Check IC201 (IF-DEMOD), CONNECTOR (P201 /SC2705) and peripheral circuits.

YES

Is LVDS video signal (LVDS_0N/0P-3N/3P) sent to pins (141)/(140) - (129)/(128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent to pins (132)/(131)?

NO → Check pins (192)/(170)/(133) of BU3.3V line of IC3002 (VCTP), pins (185)/(169)/(142) of 1.8V line and peripheral circuits.

YES

Is LVDS video signal (LVDS_0N/0P-3N/3P) sent to pins (12)/(13) -(24)/(25) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (21)/(22)?

NO → Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).

YES

Is power (LCD5V) supplied to pins (1) - (4) of CONNECTOR CN1 in LCD-CONT-UNIT?

NO → Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).

YES

Replace LCD-CONT-UNIT.

<During external connection> **No picture on the monitor (2)**

SCART1:
No picture appears on EXT1 - connected monitor during the tuner (U/V) reception.

Checklist:

1) Are input terminal on back of TV and “INPUT SOURCE” button on the remote control set up correctly? ••• See the operation manual and set “INPUT SOURCE” appropriately.
2) Is the Signal Type (item) in MENU-Option-Input Select equal to Signal Type of an external device? ••• Set it to “CVBS”, “Y/C” or “RGB”.
3) Is ANT-CABLE disconnected or connected improperly? ••• Connect it correctly as per the operation manual.
4) The picture is sent to the monitor in a CVBS signal if the source during display is TV, CVBS or Y/C of EXT1-3.
   When sent by component, etc., that signal is not sent to the monitor.
5) When the monitor picture is not sent and is not displayed on the monitor, refer to “No picture” for each terminal.
6) The video output from EXT1 is not the monitor output (output of the picture now watching).
   The picture of the last selected TV channel is always sent to EXT1. (Specification)

Is video signal sent to pin (19) of SCART1 (J1101)?
YES → Check SCART1, external connection or input setting.

NO

Is video signal (V-OUT1) sent from pin (2) of IC1102 (SW)?
YES → Check SCART1 (J1101) and peripheral circuits.

NO

Is video signal (V-OUT1) sent from pin (195) of IC3002 (VCT)?
YES → Check IC1102 (SW), Connector (P1101, SC2702) and peripheral circuits.

NO

Is video signal (CVBS) sent to pin (191) of IC3002 (VCT)?
YES → Check power supply of IC3002 (VCT) and peripheral circuits.

NO

Is video signal (CVBS) sent from pin (17) of IC201 (IF-DEMOD)?
YES → Check CONNECTOR (P201, SC2705) and peripheral circuits.

NO

Is video signal (IF) sent from pin (8) of tuner (TU201)?
YES → Check IC201, FL201 (SAW-FIL), Q202 and peripheral circuits.

NO

Check 5/5 (CONT) V power supply pins (7) and (11), I2C line pins (5) and (4) of tuner (TU201) and peripheral circuits.

<During external connection> **No picture on the monitor (2)**

SCART2:
No picture from EXT1 appears on EXT2-connected monitor.

NOTE: Normally, if the screen during display is sent to EXT2, no picture is sent to EXT2.

Checklist:

1) Are input terminal on back of TV and “INPUT SOURCE” button on the remote control set up correctly? ••• See the operation manual and set “INPUT SOURCE” appropriately.
2) Is the Signal Type (item) in MENU-Option-Input Select equal to Signal Type of an external device? ••• Set it to “CVBS”, “Y/C” or “RGB”.
3) Is ANT-CABLE disconnected or connected improperly? ••• Connect it correctly as per the operation manual.
4) The picture is sent to the monitor in a CVBS signal if the source during display is TV, CVBS or Y/C of EXT1-3. When sent by component, etc., that signal is not sent to the monitor.
5) When the monitor picture is not sent and is not displayed on the monitor, refer to “No picture” for each terminal.
6) The video output from EXT1 is not the monitor output (output of the picture now watching). The picture of the last selected TV channel is always sent to EXT1. (Specification)

Is video signal sent to pin (40) of SCART2 (J1101)? — YES → Check SCART2, external connection or input setting.

NO

Is video signal (V-OUT2) sent from pin (2) of IC1101 (SW)? — YES → Check SCART2 (J1101) and peripheral circuits.

NO

Is video signal (V-OUT2) sent from pin (194) of IC3002 (VCT)? — YES → Check IC1101 (SW), Connector (P1102, SC2703) and peripheral circuits.

NO

Is video signal (VIN1) from EXT1 sent to pin (190) of IC3002 (VCT)? — YES → Check power supply of IC3002 (VCT) and peripheral circuits.

NO

Check whether video signal is sent to pin (20) of SCART1. — YES → Check SCART1, IC2702 (SW), CONNECTOR (SC2702, P1101) and peripheral circuits.

NO

Check SCART1, external connection or input setting.

<During external connection> **No picture on the monitor (2)**

SCART2:
No picture from EXT3 appears on EXT2- connected monitor.

Checklist:

1) Are input terminal on back of TV and “INPUT SOURCE” button on the remote control set up correctly? ••• See the operation manual and set “INPUT SOURCE” appropriately.
2) Is the Signal Type (item) in MENU-Option-Input Select equal to Signal Type of an external device? ••• Set it to “CVBS”, “Y/C” or “RGB”.
3) Is ANT-CABLE disconnected or connected improperly? ••• Connect it correctly as per the operation manual.
4) The picture is sent to the monitor in a CVBS signal if the source during display is TV, CVBS or Y/C of EXT1-3.
   When sent by component, etc., that signal is not sent to the monitor.
5) When the monitor picture is not sent and is not displayed on the monitor, refer to “No picture” for each terminal.
6) The video output from EXT1 is not the monitor output (output of the picture now watching).
   The picture of the last selected TV channel is always sent to EXT1. (Specification)

Is video signal sent to pin (40) of SCART2 (J1101)? — YES → Check SCART2, external connection or input setting.

NO ↓

Is video signal (V-OUT2) sent from pin (2) of IC1101 (SW)? — YES → Check SCART2 (J1101) and peripheral circuits.

NO ↓

Is video signal (V-OUT2) sent from pin (194) of IC3002 (VCT)? — YES → Check IC1101 (SW), Connector (P1102, SC2703) and peripheral circuits.

NO ↓

Is video signal (VIN7) from EXT3 sent to pin (184) of IC3002 (VCT)? — YES → Check power supply of IC3002 (VCT) and peripheral circuits.

NO ↓

Is video signal (IN3YV) sent to pin (2) of IC1201 (SW)? — YES → Check pin (184) of IC3002 (VCT), CONNECTOR (SC2703, P1102) and peripheral circuits.

NO ↓

Is video signal (CVBS) sent from pin (1) of A/V-TERMINAL (J1201=EXT3)? — YES → Check pin (1) (IN3SW) of IC1201 (SW), power supply and peripheral circuits.

NO ↓

Check A/V-TERMINAL (J1201), external connection or input setting.

<When EXT1 is used for external input> **No picture on the display (3)**

No EXT1-Composite output of the external input system.

Checklist:

1) Is “INPUT SOURCE” button on the remote control set up correctly? ••• See the operation manual and set “INPUT SOURCE” to “EXIT”.
2) Is MENU-PICTURE-CONTRAST/BRIGHTNESS set to “MIN”? ••• Set it to an appropriate level.
3) Check the connection to the external device ••• Connect it correctly as per the operation manual for the device.

Is composite video signal sent to pin (20) of SCART1 (J1101)?
- NO → Check external connection, input setting, SCART1 and peripheral circuits.
- YES ↓

Is composite video signal (VIN_1) sent to input terminal pin (6) of IC2702 (SW)?
- NO → Check CONNECTOR (SC2702/P1101), SCART1 (J1101) and peripheral circuits.
- YES ↓

Is composite video signal (CVBS1=VIN2) sent to input terminal pin (190) of IC3002 (VCT)?
- NO → Check IC2702 (SW) and peripheral circuits.
- YES ↓

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?
- NO → Check pins (192), (170) and (133) of BU3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.
- YES ↓

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (13) and (12) - (25) and (24) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (22) and (21)?
- NO → Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).
- YES ↓

Is power (LCD5V) supplied to pins (1) - (4) of CONNECTOR CN1 in LCD-CONT-UNIT?
- NO → Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).
- YES ↓

Replace LCD-CONT-UNIT.

<When EXT1 is used for external input> **No picture on the display (3)**

No EXT1-RGB output of the external input system.

Checklist:

1) Is “INPUT SOURCE” button on the remote control set up correctly? ••• See the operation manual and set “INPUT SOURCE” to “EXIT”.
2) Is MENU-PICTURE-CONTRAST/BRIGHTNESS set to “MIN”? ••• Set it to an appropriate level.
3) Check the connection to the external device ••• Connect it correctly as per the operation manual for the device.

Is RGB signal sent to pins (15),(11) and (7) of SCART1 (J1101)?
- NO → Check external connection, input setting, SCART1 (J1101) and peripheral circuits.
- YES ↓

Is RGB signal (R1/G1/B1=VIN_6/5/9) sent to input terminal pins (187), (175) and (182) of IC3002 (VCT)?
- NO → Check CONNECTOR (SC2702/P1101), SCART1 (J1101) and peripheral circuits.
- YES ↓

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?
- NO → Check pins (192), (170) and (133) of BU3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.
- YES ↓

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (13) and (12) - (25) and (24) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (22) and (23)?
- NO → Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).
- YES ↓

Is power (LCD5V) supplied to pins (1) - (4) of CONNECTOR CN1 in LCD-CONT-UNIT?
- NO → Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).
- YES ↓

Replace LCD-CONT-UNIT.

<When EXT1 is used for external input> **No picture on the display (3)**

No EXT1-Y/C output of the external input system.

Checklist:
1) Is “INPUT SOURCE” button on the remote control set up correctly? ••• See the operation manual and set “INPUT SOURCE” to “EXIT”.
2) Is MENU-PICTURE-CONTRAST/BRIGHTNESS set to “MIN”? ••• Set it to an appropriate level.
3) Check the connection to the external device ••• Connect it correctly as per the operation manual for the device.

Is Y/C signal sent to pins (20) and (15) of SCART1 (J1101)?
- NO → Check external connection, input setting, SCART1 (J1101) and peripheral circuits.
- YES ↓

Is Y/C signal (VIN1=Y1/C1) sent to input terminal pins (190) and (187) of IC3002 (VCT)?
- NO → Check CONNECTOR (SC2702/P1101), SCART1 (J1101) and peripheral circuits.
- YES ↓

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?
- NO → Check pins (192), (170) and (133) of BU3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.
- YES ↓

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (13) and (12) - (25) and (24) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (22) and (21)?
- NO → Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).
- YES ↓

Is power (LCD5V) supplied to pins (1) - (4) of CONNECTOR CN1 in LCD-CONT-UNIT?
- NO → Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).
- YES ↓

Replace LCD-CONT-UNIT.

<When EXT2 is used for external input> **No picture on the display (4)**

No EXT2-Composite output of the external input system.

Checklist:

1) Is “INPUT SOURCE” button on the remote control set up correctly? ••• See the operation manual and set “INPUT SOURCE” to “EXT2”.
2) Is MENU-PICTURE-CONTRAST/BRIGHTNESS set to “MIN”? ••• Set it to an appropriate level.
3) Check the connection to the external device ••• Connect it correctly as per the operation manual for the device.

Is composite video signal sent to pin (41) of SCART2 (J1101)?
- NO → Check external connection, input setting, SCART2 (J1101) and peripheral circuits.
- YES ↓

Is composite video signal (VIN-2) sent to input terminal pin (4) of IC2702 (SW)?
- NO → Check CONNECTOR (SC2702/PI101), SCART2 (J1101) and peripheral circuits.
- YES ↓

Is composite video signal (CVBS2=VIN2) sent to input terminal pin (190) of IC3002 (VCT)?
- NO → Check IC2702 (SW) and peripheral circuits.
- YES ↓

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?
- NO → Check pins (192), (170) and (133) of BU 3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.
- YES ↓

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (13) and (12) - (25) and (24) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (22) and (21)?
- NO → Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).
- YES ↓

Is power (LCD5V) supplied to pins (1) - (4) of CONNECTOR CN1 in LCD-CONT-UNIT?
- NO → Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).
- YES ↓

Replace LCD-CONT-UNIT.

<When EXT2 is used for external input> **No picture on the display (4)**

No EXT2-RGB output of the external input system.

Checklist:

1) Is “INPUT SOURCE” button on the remote control set up correctly? ••• See the operation manual and set “INPUT SOURCE” to “EXT2”.
2) Is MENU-PICTURE-CONTRAST/BRIGHTNESS set to “MIN”? ••• Set it to an appropriate level.
3) Check the connection to the external device ••• Connect it correctly as per the operation manual for the device.

Is RGB signal sent to pins (36), (32) and (28) of SCART2 (J1101)?
NO → Check external connection, input setting, SCART2 (J1101) and peripheral circuits.

YES

Is RGB signal (R2/G2/B2=VIN_15/16/17) sent to Input terminal pins (178), (177) and (176) of IC3002 (VCT)?
NO → Check CONNECTOR (SC2702/P1101), SCART2 (J1101) and peripheral circuits.

YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?
NO → Check pins (192), (170) and (133) of BU 3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.

YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (13) and (12) - (25) and (24) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (22) and (21)?
NO → Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).

YES

Is power (LCD5V) supplied to pins (1) - (4) of CONNECTOR CN1 in LCD-CONT-UNIT?
NO → Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).

YES

Replace LCD-CONT-UNIT.

<When EXT2 is used for external input> **No picture on the display (4)**

No EXT2-Y/C output of the external input system.

Checklist:

1) Is “INPUT SOURCE” button on the remote control set up correctly? ••• See the operation manual and set “INPUT SOURCE” to “EXT2”.
2) Is MENU-PICTURE-CONTRAST/BRIGHTNESS set to “MIN”? ••• Set it to an appropriate level.
3) Check the connection to the external device ••• Connect it correctly as per the operation manual for the device.

Is Y/C signal sent to pins (41) and (36) of SCART2 (J1101)?

NO → Check external connection, input setting, SCART2 (J1101) and peripheral circuits.

YES ↓

Is Y/C signal (VIN1 =Y2/C2) sent to input terminal pins (190) and (178) of IC3002 (VCT)?

NO → Check CONNECTOR (SC2702/P1101), SCART2 (J1101) and peripheral circuits.

YES ↓

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?

NO → Check pins (192), (170) and (133) of BU 3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.

YES ↓

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (13) and (12) - (25) and (24) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (22) and (21)?

NO → Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).

YES ↓

Is power (LCD5V) supplied to pins (1) - (4) of CONNECTOR CN1 in LCD-CONT-UNIT?

NO → Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).

YES ↓

Replace LCD-CONT-UNIT.

<When EXT3 is used for external input> **No picture on the display (5)**

No EXT3 output of the external input system.

Checklist:

1) Is “INPUT SOURCE” button on the remote control set up correctly? ••• See the operation manual and set “INPUT SOURCE” to “EXT3”.
2) Is MENU-PICTURE-CONTRAST/BRIGHTNESS set to “MIN”? ••• Set it to an appropriate level.
3) Check the connection to the external device ••• Connect it correctly as per the operation manual for the device.

Is composite video signal sent to pin (1) of A/V-IN-TERMINAL (J1201)?
- NO → Check external connection, input setting, A/V-IN-TERMINAL (J1201) and peripheral circuits.
- YES ↓

Is composite video signal (IN3-CVBS) sent to input terminal pin (4) of IC1201 (SW)?
- NO → Check A/V-I N-TERMINAL (J1201) and peripheral circuits.
- YES ↓

Is composite video signal (CVBS=VIN7) sent to input terminal pin (184) of IC3002 (VCT)?
- NO → Check CONNECTOR (SC2703/P1102), IC3002 (VCT) and peripheral circuits.
- YES ↓

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?
- NO → Check pins (192), (170) and (133) of BU3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.
- YES ↓

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (13) and (12) - (25) and (24) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (22) and (21)?
- NO → Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).
- YES ↓

Is power (LCD5V) supplied to pins (1) and (2) of CONNECTOR CN1 in LCD-CONT-UNIT?
- NO → Is LCD5V supplied to pin (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).
- YES ↓

Replace LCD-CONT-UNIT.

<When EXT3 is used for external input> **No picture on the display (5)**

No EXT3-Y/C output of the external input system.

Checklist:

1) Is “INPUT SOURCE” button on the remote control set up correctly? ••• See the operation manual and set “INPUT SOURCE” to “EXT3”.
2) Is MENU-PICTURE-CONTRAST/BRIGHTNESS set to “MIN”? ••• Set it to an appropriate level.
3) Check the connection to the external device ••• Connect it correctly as per the operation manual for the device.

Is Y/C signal sent to pins (11) and (7) of S-TERMINAL (J1201)?
NO → Check external connection, input setting, S-TERMINAL (J1201) and peripheral circuits.

YES

Is Y3 signal (IN3-Y) sent to Input terminal pin (6) of IC1201 (SW)?
NO → Check S-TERMINAL (J1201) and peripheral circuits.

YES

Is Y/C signal (VIN7/VIN8) sent to input terminal pins (184) and (183) of IC3002 (VCT)?
NO → Check CONNECTOR (SC2703/P1102), IC3002 (VCT) and peripheral circuits.

YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?
NO → Check pins (192), (170) and (133) of BU3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.

YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (13) and (12) - (25) and (24) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (22) and (21)?
NO → Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).

YES

Is power (LCD5V) supplied to pins (1) - (4) of CONNECTOR CN1 in LCD-CONT-UNIT?
NO → Is LCD5V supplied to pin (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).

YES

Replace LCD-CONT-UNIT.

<When EXT4 is used for external input> **No picture on the display (6)**

No EXT4 (15pin-D-SUB terminal) output of the external input system.

Checklist:

1) Is “INPUT SOURCE” button on the remote control set up correctly? ••• See the operation manual set “INPUT SOURCE” to “EXT4”.
2) Connect the included D-SUB-Adapter-Cable to the COMPONENT terminal of an external device. ••• See the operation manual (use a commercially available Component-Cable to connect to the external device).
3) Is ANT-CABLE disconnected or connected improperly? ••• Connect it correctly as per the operation manual.

YES

Is “EXT4” selected with “INPUT SOURCE” button on the remote control?

NO → Select “EXT4” with “INPUT SOURCE” button on the remote control.

YES

Is D-SUB-COMPONENT signal (PCV_R/G/B) sent to pins (1), (2) and (3) of EXT4-TERMINAL (SC2303)?

NO → Check D-SUB-adaptor and external connection.

YES

Is D-SUB-COMPONENT signal (PCV_R/G/B=VIN19/20/21) sent to pins (174), (173) and (172) of IC3002 (VCT)?

NO → Check EXT4-TERMINAL and peripheral circuits.

YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?

NO → Check pins (192), (170) and (133) of BU3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.

YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (13) and (12) - (25) and (24) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (22) and (21)?

NO → Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).

YES

Is power (LCD5V) supplied to pins (1) - (4) of CONNECTOR CN1 in LCD-CONT-UNIT?

NO → Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).

YES

Replace LCD-CONT-UNIT.

<When EXT5 is used for external input> **No picture on the display (7)**

No EXT5 (HDMI) output of the external input system.

Checklist:

1) Is “INPUT SOURCE” button on the remote control set up correctly? ••• See the operation manual and set “INPUT SOURCE” to “EXT5”.
2) Have you checked the type video signal sent from HDMI-connected external device? ••• Confirm the type (it should “RGB”, “YCbCr 4:4:4” or “YCbCr 4:2:2”).
3) Have you checked the type of Color Matrix sent from HDMI-connected external device? ••• Confirm the type (it should be “ITU601” or “ITU709”.)
4) Is ANT-CABLE disconnected or connected improperly? ••• Connect it correctly as per the operation manual.

YES

Is “EXT5” selected with “INPUT SOURCE” button on the remote control?

NO → Select “EXT5” with “INPUT SOURCE” button on the remote control.

YES

Is the type of video signal (Signal Type) from HDMI-connected external device set?

NO → From MENU-Option-HDMI Setup-Signal Type, select a signal type (“RGB”, “YCbCr 4:4:4” or “YCbCr 4:2:2”).

YES

Is the type of color signal (Color Matrix) from HDMI-connected external device set?

NO → From Option-HDMI Setup-Color Matrix, select a color signal type (“AUTO”, “ITU601” or “ITU709”)

YES

Is TMDS data (RX*±signal) sent to pins (1) - (12) of EXT5 (HDMI) terminal (SC1901)?

NO → Is I2C signal (SDA/SCL signal) sent to pins (16) and (15) of EXT5 (HDMI) terminal?
Check external connection and peripheral circuits.

YES

Is 8bit-DIGITAL signal (HDMI- R/G/B) sent from pins (110) - (144) of IC1905 (HDMI-RECEIVER)?

NO → Check power supply (3.3/1.8V) pins (99) and (74) of IC1905, SDA/SCL signal pins (29) and (30), and peripheral circuits.

YES

Is 8bit-DIGITAL signal (HDMI- R/G/B) sent to pins (73) - (50) of IC3002 (VCT)?

NO → Check SDA3/SCL3 signal pins (27) and (28), interface between IC1905 and IC3002, and peripheral circuits.

YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?

NO → Check pins (192), (170) and (133) of BU3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.

YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (13) and (12) - (25) and (24) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (22) and (21)?

NO → Check CONNECTOR (P2305,CN1) and HARNESS WIRE (LV).

YES

Is power (LCD5V) supplied to pins (1) - (4) of CONNECTOR CN1 in LCD-CONT-UNIT?

NO → Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).

YES

Replace LCD-CONT-UNIT.

Backlight failure to light up

Do all the fluorescent tubes light up?
- NO → Check the individual fluorescent tubes for light-up failure.
  - YES → Replace any defective fluorescent tube (s) with new one (s).
- YES ↓

Is the power supplied to the inverter unit? (24V) (CN7501 1-5pin)
- NO → Check the connection between power unit and inverter unit.
- YES ↓

Is the fuse (F7501) in the inverter unit circuit functioning?
- NO → Replace the blown-out fuse on the inverter unit. Turn on the power again.
  If the fuse gets blown out again, check the short-circuited
  - YES → Check drive trans and their peripheral circuits as well as drive FET and their peripheral circuits.
- YES ↓

Is the VCC power supplied to the inverter control IC on the inverter unit?
- NO → Check the circuit connected with the VCC terminal on the inverter control IC .
- YES ↓

Are there control signals (STB) INV-ON), OFL(INV-BRT), OSC) at LB (CN7502) on the inverter unit?
- NO → Check pins (5) and (7) of IC1710 (main PWB).
- YES ↓

Is the specified control signal inputted at INV-CTL-IC(IC7501) on the inverter unit?
- NO → Check the line between LB(CN7502) and INV-CTL-IC(IC7501) .
- YES ↓

Are the DRIVE-FET at the primary side of DRIVE-TRANS functioning? (Q7528/Q7527/Q7526/Q7525)
- NO → Replace INV-CTL-IC(IC7501) or check its peripheral circuits.
- YES ↓

Is the secondary circuit of DRIVE-TRANS functioning? (T7501 •••T7505)
- NO → RReplace the DRIVE-TRANS for the fluorescent tubes, or check their peripheral circuits.

LCD failure	→	Does a single or several vertical stripes appear on the LCD screen?	→	Replace the LCD panel.
LCD failure	→	Does a single or several horizontal stripes appear on the LCD screen?	→	Replace the LCD panel.
LCD failure	→	Do luminescent or black dots appear on the screen?	→	Replace the LCD panel.
LCD failure	→	Is the on-screen image rippling or distorted?	→	Replace the LCD panel.
LCD failure	→	The backlight functions. Does not the image come out in the LCD screen (screen black)?	→	Replace the LCD control unit
LCD failure	→	Does the entire LCD screen look whitish all over?	→	Replace the LCD control unit
LCD failure	→	Does the QS drive function?	→	Replace the LCD control unit
LCD failure	→	Are there data bit drop-outs? (No solution even when turning on and off the QS drive)	→	Replace the LCD control unit
LCD failure	→	Is the gamma correction as specified?	→	Replace the LCD control unit

CHAPTER 5. MAJOR IC INFORMATIONS

[1] MAJOR IC INFORMATIONS

1. General ICs Information

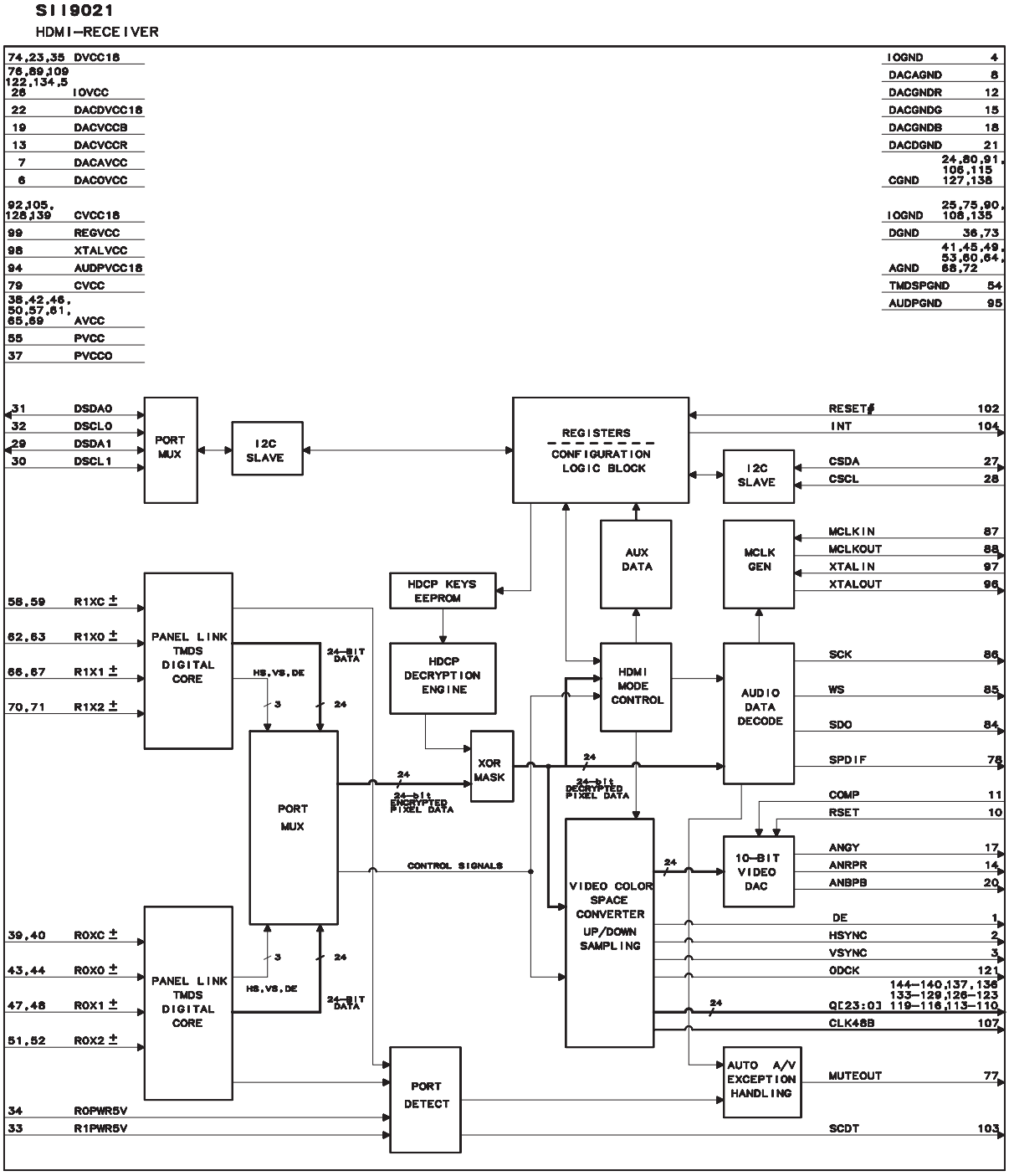
Ref No.	Name	Part Code	Description	Drawing Name
KD890FM (MAIN UNIT)				
IC1905	HDMI-Receiver	VHISII9021+-1Q	The SiI9021 is a second generation panel Link Cinema receiver that is compatible with the HDMI 1.1 (High Definition Multimedia interface) specification. The SiI9021 is capable of receiving and outputting two channel digital audio at up to 192KHz - an excellent solution for Digital TVs. The feature of this IC is as follows. 1) Digital video interface supports video processors: 2) Analog RGB and YPbPr output: 10-bit DAC. 3) Digital audio interface supports high-end audio systems:	M1
IC2701	4CH-MULTIPLEXER	VHITVHC153T-1Y	This IC is a super high speed CMOS 4-channel multiplexer using the CMOS technology and incorporates 2 circuits. The input consists of 2 addresses A, B, 4 channel inputs C0-C3 and strobe input G, and the signal of the channel selected by the address input sent as the output Y. The strobe input is used for prohibition of data output. That means, when G input is “H” the output becomes “L” unconditionally. In this model, this IC operates the switch of H/V-SYNC on each signal condition.	M2
IC3002	VIDEO PROCESSOR	RH-IXB624WJN1Q	The VCT 6wxyP family is based on functional blocks contained and approved in existing products like VCT49xxl, VSP 94x5B, and DPS 94xxA. That is, the following 6 major functions are included: 1) Audio Processing 2) Video Processing 3) Motion Adaptive Upconversion 4) Scaling, Display Processing and FPD 5) Unified memory for Audio, Video and Text Control, 3D Combfilter PC Connectivity 6) Controlling, OSD and Text	M3
IC3003	Microcontroller	RH-IXB664WJZZY	This IC is based on LCD Driver and nano Watt Technology and is RISC microprocessor to control peripheral functions necessary for the system configuration. In this equipment, the R/C LED on the AVC side and system on the display side are controlled.	M3
IC2301	RS232C Transmitters/ Receivers	VHIISL83220-1Y	This IC is a line driver receiver in conformity with EIA/TIA-232-E (former RS-232C) standard. By connecting a PC, the system can be controlled externally.	M5
IC1710	CPLD	RH-IXB823WJZZQ	This IC is a CPLD of Altera and use CMOS EEPROM cells to implement logic functions with 64 Macrocells. This device controls ON/OFF power supply and signals for inverter unit.	M6
IC1706	Stepdown Converter	VHIMP1410ES-1Y	The MP1410 is a monolithic step down switch mode regulator with a built in internal power MOSFET. In this model, it is assumed 1.8V DC/DC-CONVERTER and is used.	M6
IC3001	E2PROM	VHIBR24L64F-1Y	The BR24L64F is a 2-wire (I2C bus type) serial EEPROM that is electrically programmable. This IC saves adjustment values of the adjustment process mode, etc. The data is given out by commands from the main microprocessor.	
IC1901	E2PROM	VHI24LC2BIN-1Y	This IC is a 2-wire (I2C bus type) serial EEPROM this is electrically programmable. This EEPROM chip stores EDID data of the input for HDMI. This data is controlled by the I2C signal.	
IC2303	E2PROM	VHIBR24C21F-1Y	This IC is a 2-wire (I2C bus type) serial EEPROM this is electrically programmable. This EEPROM chip stores EDID data of the input for PC. This data is controlled by the I2C signal.	
IC1701	POWER RESET	VHIBU4239G+-1Y	Low voltage detector IC with adjustable output delay. Standard Detection Voltage = 3.9V.	
IC1702	BU+3.3V	VHIPQ20WZ11-1Y	Low power-loss voltage regulators. Variable Output. Output current 1A. Built-in overcurrent, overheat protection functions,ASO protection circuit.	
IC1703	S+8V	VHIPQ20WZ11-1Y	Low power-loss voltage regulators. Variable Output. Output current 1A. Built-in overcurrent, overheat protection functions,ASO protection circuit.	

Ref No.	Name	Part Code	Description	Drawing Name
IC1707	+3.3V	VHIPQ20WZ11-1Y	Low power-loss voltage regulators. Variable Output. Output current 1A. Built-in overcurrent, overheat protection functions,ASO protection circuit.	
IC1708	+1.8V	VHIMP1410ES-1Y	DC to DC Converter. 2A Step down switch mode regulator with a built in internal Power Mosfet. Fault condition protection includes cycle-by-cycle current limiting and thermal shutdown.	
IC1706	BU+1.8V	VHIMP1410ES-1Y	DC to DC Converter. 2A Step down switch mode regulator with a built in internal Power Mosfet. Fault condition protection includes cycle-by-cycle current limiting and thermal shutdown.	
KD604FM (AV UNIT)				
IC301 IC302	Sound Amp	VHITDA8931T-1Y	The TDA8931 is a switching power stage for high efficiency class-D audio power amplifier systems. With this amplifier a compact 1x 20 W closed loop self-oscillating digital amplifier system can be built. In this model, Audio amplifier is 10watt.	AV1
KD605FM (POWER UNIT)				
IC705	Switching Regulator	VHIMR4020++-1	This IC is a power supply for the switching regulator on the primary side. Overvoltage/overcurrent protection circuit, other protection circuits and control circuits are built in this IC.	P1
IC704	Switching Regulator	VHIMR4030++-1	This IC is a power supply for the switching regulator on the primary side. Overvoltage/overcurrent protection circuit, other protection circuits and control circuits are built in this IC.	P1
KD608FM (TUNER UNIT)				
IC201	IF-Demodurator/ PLL	VHITDA9886+-1Y	The TDA9886 is an alignment-free multistandard (PAL, SECAM and NTSC) vision and sound IF signal PLL demodulator for positive and negative modulation in cluding sound AM and FM processing.	TUNER

2. Detailed ICs Information

2.1. IC1905 (VHISII9021+-1Q)

2.1.1 Block Diagram



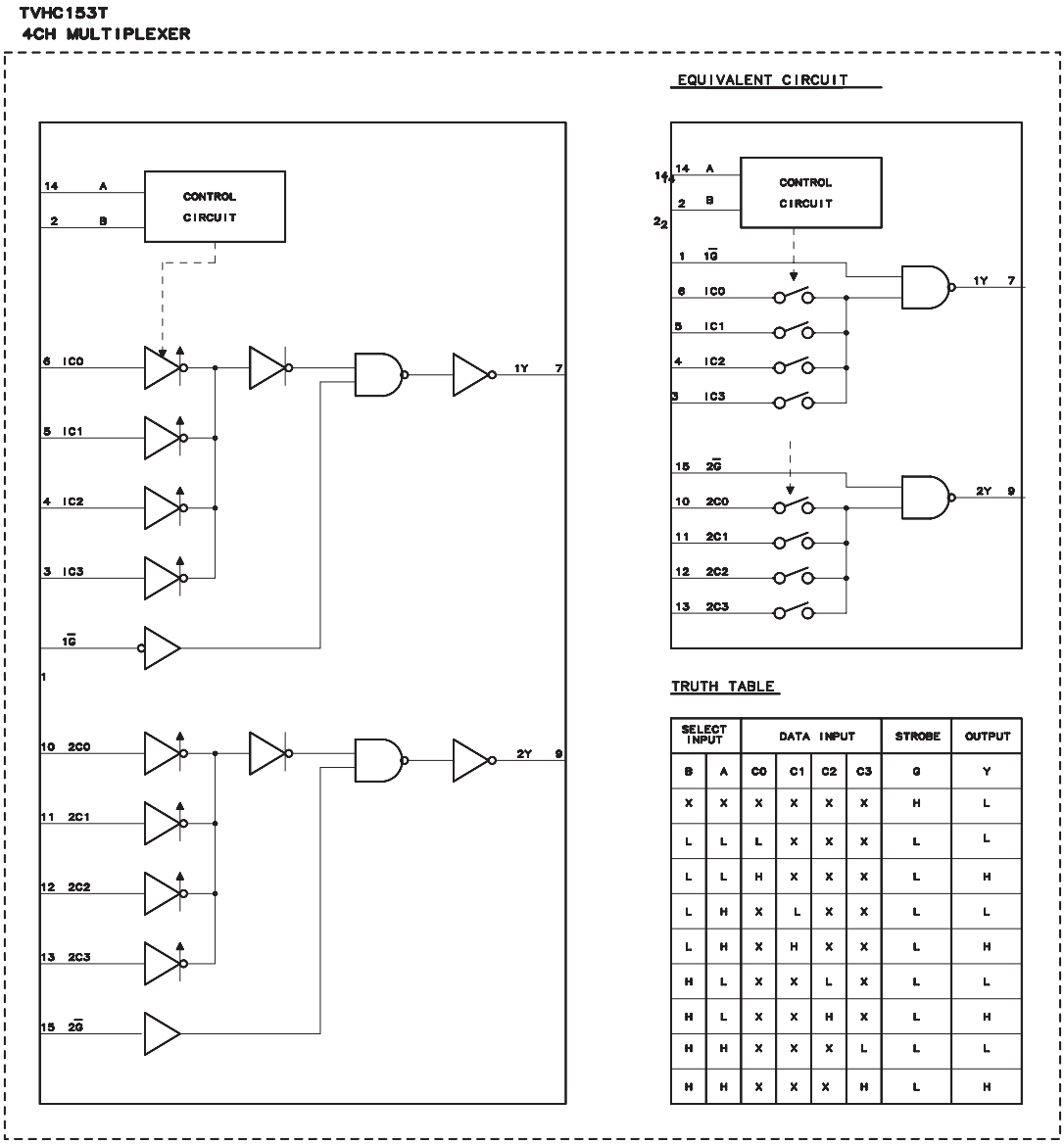
2.1.2 Pin Connections and short description

Pin No.	Pin Name	Type	Description
144	Q0	O	24-bit Output Pixel Data Bus.
143	Q1	O	24-bit Output Pixel Data Bus.
142	Q2	O	24-bit Output Pixel Data Bus.
141	Q3	O	24-bit Output Pixel Data Bus.
140	Q4	O	24-bit Output Pixel Data Bus.
137	Q5	O	24-bit Output Pixel Data Bus.
136	Q6	O	24-bit Output Pixel Data Bus.
133	Q7	O	24-bit Output Pixel Data Bus.
132	Q8	O	24-bit Output Pixel Data Bus.
131	Q9	O	24-bit Output Pixel Data Bus.
130	Q10	O	24-bit Output Pixel Data Bus.
129	Q11	O	24-bit Output Pixel Data Bus.
126	Q12	O	24-bit Output Pixel Data Bus.
125	Q13	O	24-bit Output Pixel Data Bus.
124	Q14	O	24-bit Output Pixel Data Bus.
123	Q15	O	24-bit Output Pixel Data Bus.
119	Q16	O	24-bit Output Pixel Data Bus.
118	Q17	O	24-bit Output Pixel Data Bus.
117	Q18	O	24-bit Output Pixel Data Bus.
116	Q19	O	24-bit Output Pixel Data Bus.
113	Q20	O	24-bit Output Pixel Data Bus.
112	Q21	O	24-bit Output Pixel Data Bus.
111	Q22	O	24-bit Output Pixel Data Bus.
110	Q23	O	24-bit Output Pixel Data Bus.
1	DE	O	Data enable.
2	HSYNC	O	Horizontal Sync Output control signal.
3	VSYNC	O	Vertical Sync Output control signal.
121	ODCK	O	Output Data Clock.
97	XTALIN	I	Crystal Clock Input.
96	XTALOUT	O	Crystal Clock Output.
88	MCLKOUT	O	Audio Master Clock Output.
87	MCLKIN	I	Audio Master Clock Input Reference.
86	SCK	O	I2S Serial Clock Output.
85	WS	O	I2S Word Select Output.
84	SDO	O	I2S Serial Data Output.
78	SPDIF	O	S/PDIF Audio Output.
77	MUTEOUT	O	Mute Audio Output.
104	INT	O	Interrupt Output.
102	RESET#	I	Reset Pin.Active LOW.
32	DSCLO	I	DDC I2C Clock for Port 0.
31	DSDAO	Bi-Di	DDC I2C Data for Port 0.
30	DSCL1	I	DDC I2C Clock for Port 1.
29	DSDA1	Bi-Di	DDC I2C Data for Port 1.
28	CSCL	I	Configuration I2C Clock.
27	CSDA	Bi-Di	Configuration I2C Data.
103	SCDT	O	Indicates active video at HDMI input port.
107	CLK48B	Bi-Di	Data Bus Latch Enable.
34	R0PWR5V	I	Port 0 Transmitter Detect.
33	R1PWR5V	I	Port 1 Transmitter Detect.
101	RSVDL	I	Reserved, must be tied LOW.
56	RSVD_A		Reserved Pin, leave unconnected.
93100	NC	–	No connect.
9	VREF	–	
81,82,83	RSVD	O	
14	AnRPr	O	Analog Video Red, Pr Output.
17	AnGY	O	Analog Video Green, Y Output.
20	AnBPb	O	Analog Video Blue, Pb Output.
11	COMP	–	Compensation. Provides compensation for the DAC's internal reference amplifier. This pin should be connected through capacitors to DACVCC externally. These capacitors must be close to the pin as possible to avoid any noise pick-up.
10	RSET	–	Full Scale Adjust Resistor. A precision(1%)resistor connected between this pin and DACGND controls the magnitude of the full scale video signal/RESET may need to be ajusted for optimum gain. This resistor must be as close to the pin as possible to avoid any noise pick-up.

Pin No.	Pin Name	Type	Description
40	R0XC+	I	TMDS input clock pair. HDMI Port 0
39	R0XC-	I	TMDS input clock pair. HDMI Port 0
44	R0X0+	I	TMDS input data pair. HDMI Port 0
43	R0X0-	I	TMDS input data pair. HDMI Port 0
48	R0X1+	I	TMDS input data pair. HDMI Port 0
47	R0X1-	I	TMDS input data pair. HDMI Port 0
52	R0X2+	I	TMDS input data pair. HDMI Port 0
51	R0X2-	I	TMDS input data pair. HDMI Port 0
59	R1XC+	I	TMDS input clock pair. HDMI Port 1
58	R1XC-	I	TMDS input clock pair. HDMI Port 1
63	R1X0+	I	TMDS input data pair. HDMI Port 1
62	R1X0-	I	TMDS input data pair. HDMI Port 1
67	R1X1+	I	TMDS input data pair. HDMI Port 1
66	R1X1-	I	TMDS input data pair. HDMI Port 1
71	R1X2+	I	TMDS input data pair. HDMI Port 1
70	R1X2-	I	TMDS input data pair. HDMI Port 1
23,79,92, 105,114, 128,139	CVCC18	–	Digital Logic VCC.
24,80,91, 106,115, 127,138	CGND	–	Digital Logic GND.
5,26,76,89, 109,122, 134	IOVCC	–	Input/Output Pin VCC.
4,25,75, 90,108, 120,135	IOGND	–	Input/Output Pin GND.
38,42,46, 50,57,61, 65,69	AVCC	–	TMDS Analog VCC.
41,45,49, 53,60,64, 68,72	AGND	–	TMDS Analog GND.
37	PVCC0	–	TMDS Port 0 PLL VCC.
55	PVCC1	–	TMDS Port 1 PLL VCC.
54	TMDSPGND	–	TMDS PLL GND.
13	DACVCCR	–	DAC Red VDD.
12	DACGNDR	–	DAC Red GND.
16	DACVCCG	–	DAC Green VDD.
15	DACGNDG	–	DAC Green GND.
19	DACVCCB	–	DAC Blue VDD.
18	DACGNDB	–	DAC Blue GND.
6	DACOVCC	–	DAC Output VCC.
7	DACAVCC	–	DAC Analog VCC.
8	DACAGND	–	DAC Analog GND.
22	DACVCC18	–	DAC Digital VCC.
21	DACGND	–	DAC Digital GND.
94	AUDPVCC18	–	ACR PLL VCC.
95	AUDPGND	–	ACR PLL GND.
35,74	DVCC18	–	ACR PLL Digital VCC.
36,73	DGND	–	ACR PLL GND.
98	XTALVCC	–	ACR PLL Crystal Input VCC.
99	REGVCC	–	ACR PLL Regulator VCC.

2.2. IC2701 (VHITVHC153T-1Y)

2.2.1 Block Diagram



TRUTH TABLE

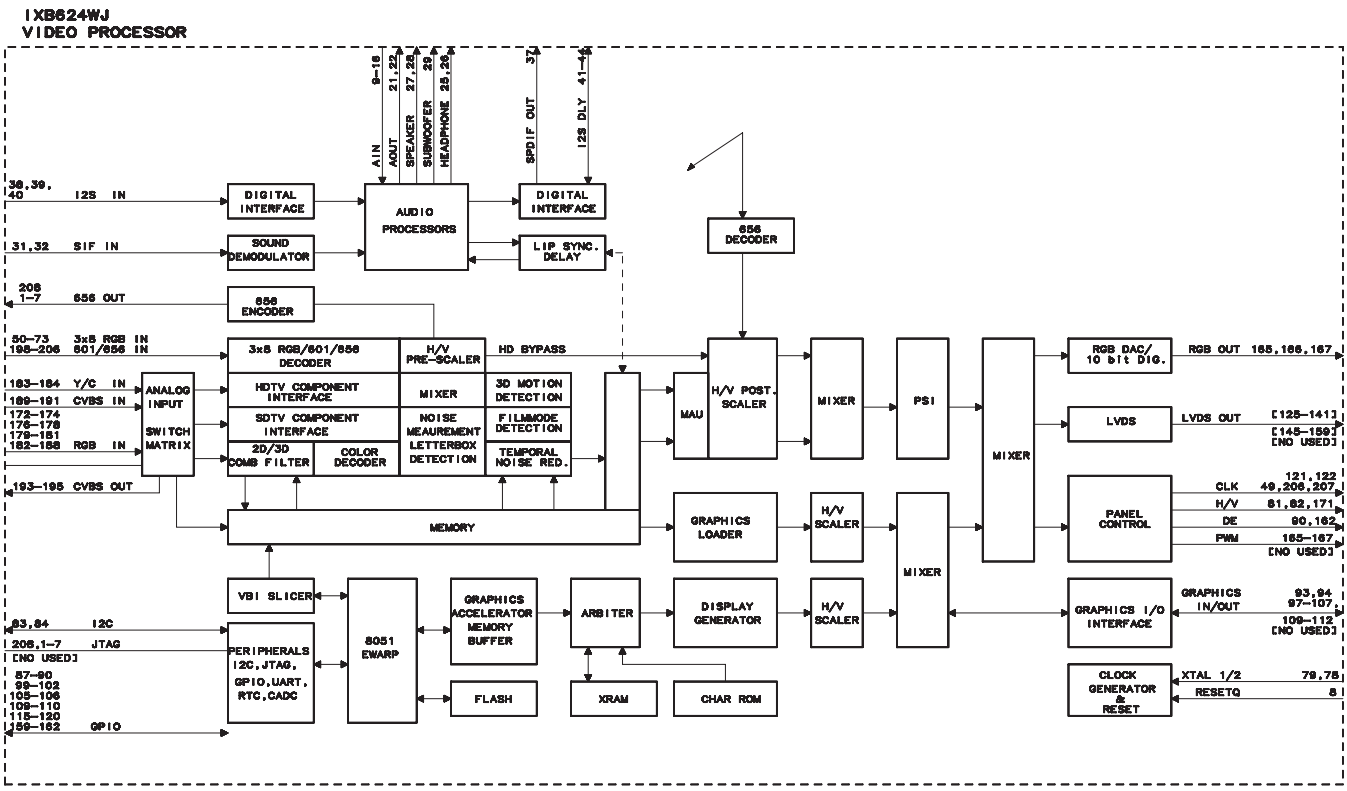
SELECT INPUT		DATA INPUT				STROBE	OUTPUT
B	A	C0	C1	C2	C3	G	Y
X	X	X	X	X	X	H	L
L	L	L	X	X	X	L	L
L	L	H	X	X	X	L	H
L	H	X	L	X	X	L	L
L	H	X	H	X	X	L	H
H	L	X	X	L	X	L	L
H	L	X	X	H	X	L	H
H	H	X	X	X	L	L	L
H	H	X	X	X	H	L	H

2.2.2 Pin Connections and short description

Pin No.	Pin Name	I/O	Pin Function
1	$\overline{1G}$	I	Strobe input $\overline{1G}$.
2	B	I	Address input B.
3	1C3	I	Channel input 1C3.
4	1C2	I	Channel input 1C2.
5	1C1	I	Channel input 1C1.
6	1C0	I	Channel input 1C0.
7	1Y	O	Output signal 1Y.
8	GND	–	Ground.
9	2Y	O	Output signal 2Y.
10	2C0	I	Channel input 2C0.
11	2C1	I	Channel input 2C1.
12	2C2	I	Channel input 2C2.
13	2C3	I	Channel input 2C3.
14	A	I	Address input A.
15	$\overline{2G}$	I	Strobe input $\overline{2G}$
16	VCC	–	Power Source.

2.3. IC3002 (RH-IXB624WJN1Q)

2.3.1 Block Diagram



2.3.2 Pin Connections and short description

Pin No.	Pin Name	I/O	Pin Function	Sheet Name
1	656O6	O	Digital 656 Bit 6 Output	FRCI [6]
2	656O5	O	Digital 656 Bit 5 Output	FRCI [5]
3	656O4	O	Digital 656 Bit 4 Output	FRCI [4]
4	656O3	O	Digital 656 Bit 3 Output	FRCI [3]
5	656O2	O	Digital 656 Bit 2 Output	FRCI [2]
6	656O1	O	Digital 656 Bit 1 Output	FRCI [1]
7	656O0	O	Digital 656 Bit 0 Output (LSB)	FRCI [0]
8	RESETQ	I/O	Reset Input/Output	RESET-N
9	AIN1R	I	Analog Audio 1 Input, Right	AUDIO2_R
10	AIN1L	I	Analog Audio 1 Input, Left	AUDIO2_L
11	AIN2R	I	Analog Audio 2 Input, Right	EXT2 A_IN_R
12	AIN2L	I	Analog Audio 2 Input, Left	EXT2_A_IN_L
13	AIN3R	I	Analog Audio 3 Input, Right	EXT1 A_IN_R
14	AIN3L	I	Analog Audio 3 Input, Left	EXT1 A_IN_L
15	AIN4R	I	Analog Audio 4 Input, Right	EXT3 A_IN_R
16	AIN4L	I	Analog Audio 4 Input, Left	EXT3 A_IN_L
17	VREFAU	–	Reference Voltage, Audio	–
18	VSUP8.0AU	–	Supply Voltage Analog Audio, 8.0 V	S8V
19	GNDA	–	Ground Analog Audio, Platform Ground	GND
20	SGND	–	Analog Signal GND	GND
21	AOUT2R	O	Analog Audio 2 Output, Right	OUT2_R
22	AOUT2L	O	Analog Audio 2 Output, Left	OUT2_L
23	AOUT1R	O	Analog Audio 1 Output, Right	OUT1_R
24	AOUT1L	O	Analog Audio 1 Output, Left	OUT1_L
25	HEADPHONER	O	Analog Headphone Output, Right	open
26	HEADPHONEL	O	Analog Headphone Output, Left	open
27	SPEAKERR	O	Analog Loudspeaker Output, Right	SPK_OUT_R
28	SPEAKERL	O	Analog Loudspeaker Output, Left	SOK_OUT_L
29	SUBWOOFER	I/O	Analog SUBWOOFER Output	SBW_TEST
30	VREFSIF	ANA	Reference Voltage, Audio SIF	–

Pin No.	Pin Name	I/O	Pin Function	Sheet Name
31	SIFIN+	I	Differential Sound IF Input	SIF
32	SIFIN-	I	Differential Sound IF Input	–
33	VSUP5.0	–	Supply Voltage Analog, 5.0 V	+5V
34	GNDA	–	Ground Analog, Platform Ground	GND
35	GND3.3DIG	–	Ground Digital Interfaces	GND
36	VSUP3.3DIG	–	Supply Voltage Digital Interfaces, 3.3 V	3.3V
37	SPDIF_OUT	O	SPDIF Output	open
38	I2S_DA_IN	I	Audio Bus Data Input	I2S_D1
39	I2S_CL	I	Audio Bus Clock Input	A2S-CL
40	I2S_WS	I	Audio Bus Word Strobe Input	I2S_WS
41	I2S_DEL_OUT	I/O	Audio Delay Line Bus Data Output/Input	open
42	I2S_DEL_IN	I/O	Audio Delay Line Bus Data Input/Output	open
43	I2S_DEL_CL	I/O	Audio Delay Line Bus Clock Output/Input	open
44	I2S_DEL_WS	I/O	Audio Delay Line Word Strobe Output/Input	open
45	VSUP3.3RAM	–	Supply Voltage Ram, 3.3 V	3.3V
46	GND3.3RAM	–	Ground Ram	GND
47	DVS	I	Digital or Analog Video VSYNC HD Input	DVSYNC
48	DEN	I	Digital or Analog Video VSYNC HD Input	DINEN
49	DCLK	I	Digital Video Clock Input	DINCK
50	DRI7	I	Digital Video Red 7 Input	DINR [7]
51	DRI6	I	Digital Video Red 6 Input	DINR [6]
52	DRI5	I	Digital Video Red 5 Input	DINR [5]
53	DRI4	I	Digital Video Red 4 Input	DINR [4]
54	DRI3	I	Digital Video Red 3 Input	DINR [3]
55	DRI2	I	Digital Video Red 2 Input	DINR [2]
56	DRI1	I	Digital Video Red 1 Input	DINR [1]
57	DRI0	I	Digital Video Red 0 Input (LSB)	DINR [0]
58	DGI7	I	Digital Video Green 7 Input	DING [7]
59	DGI6	I	Digital Video Green 6 Input	DING [6]
60	DGI5	I	Digital Video Green 5 Input	DING [5]
61	DGI4	I	Digital Video Green 4 Input	DING [4]
62	DGI3	I	Digital Video Green 3 Input	DING [3]
63	DGI2	I	Digital Video Green 2 Input	DING [2]
64	DGI1	I	Digital Video Green 1 Input	DING [1]
65	DGI0	I	Digital Video Green 0 Input (LSB)	DING [0]
66	DBI7	I	Digital Video Blue 7 Input	DINB [7]
67	DBI6	I	Digital Video Blue 6 Input	DINB [6]
68	DBI5	I	Digital Video Blue 5 Input	DINB [5]
69	DBI4	I	Digital Video Blue 4 Input	DINB [4]
70	DBI3	I	Digital Video Blue 3 Input	DINB [3]
71	DBI2	I	Digital Video Blue 2 Input	DINB [2]
72	DBI1	I	Digital Video Blue 1 Input	DINB [1]
73	DBI0	I	Digital Video Blue 0 Input (LSB)	DINB [0]
74	GND3.3DRI	–	Ground Digital Ram Interface	GND
75	VSUP3.3DRI	–	Supply Voltage Digital Ram Interface, 3.3 V	3.3V
76	GND3.3COM	–	Ground Common	GND
77	VSUP3.3COM	–	Supply Voltage Common, 3.3V	3.3V
78	XTALIN	I	Analog Crystal Input	X_IN
79	XTALOUT	O	Analog Crystal Output	X_OUT
80	CLKOUT	O	Digital 20MHz Clock Output	open
81	VSO	O	Vertical Sync Output, Frontend	open
82	HSO	O	Horizontal Sync Output, Frontend	open
83	SCL	I/O	I2C Bus Clock Input/Output	BU_SCL3
84	SDA	I/O	I2C Bus Data Input/Output	BU_SDA3
85	GND3.3FL	–	Ground Flash	GND
86	VSUP3.3FL	–	Supply Voltage Flash, 3.3 V	3.3V
87	P2_0	I/O	Port 2, Bit 0 Input/Output	AVLK1
88	P2_1	I/O	Port 2, Bit 1 Input/Output	AVLK2
89	P2_2	I/O	Port 2, Bit 2 Input/Output	IRIN
90	P2_3	I/O	Port 2, Bit 3 Input/Output	KEY-PSW
91	P2_4	I/O	Port 2, Bit 4 Input/Output	TXD
92	P2_5	I/O	Port 2, Bit 5 Input/Output	RXD
93	OSDV	I/O	Graphic Vertical Sync Input/Output	open
94	OSDH	I/O	Graphic Horizontal Sync Input/Output	open

Pin No.	Pin Name	I/O	Pin Function	Sheet Name
95	GND3.3IO1	–	Ground Digital Input/Output Port 1	GND
96	VSUP3.3IO1	–	Supply Voltage Input/Output Port 1, 3.3 V	3.3V
97	OSDCLK	I/O	Graphic Clock Input/Output	open
98	OSDFSW	I/O	Graphic Fast Switch Input/Output	open
99	P3_7	I/O	Port3,bit7 Input/Output	HP JSW (HP PLUG)
100	P3_6	I/O	Port3,bit6 Input/Output	HOTP_CONT1
101	P3_5	I/O	Port3,bit5 Input/Output	HOTP_CONT0
102	P3_4	I/O	Port3,bit4 Input/Output	HDMI_INT
103	OSDB1	I/O	Graphic Blue 1 Input/Output	open
104	OSDB0	I/O	Graphic Blue 0 Input/Output	open
105	P3_3	I/O	Port3,bit3 Input/Output	P3_3
106	P3_2	I/O	Port3,bit2 Input/Output	open
107	OSDG1	I/O	Graphic Green 1 Input/Output	open
108	OSDG0	I/O	Graphic Green 0 Input/Output	open
109	P3_1	I/O	Port3,bit1 Input/Output	BL_ERR
110	P3_0	I/O	Port3,bit0 Input/Output	DTM_IRQ
111	OSDR1	I/O	Graphic Red 1 Input/Output	open
112	OSDR0	I/O	Graphic Red 0 Input/Output (LSB)	Open
113	GND3.3IO1	–	Ground Digital Input/Output Port 1	GND
114	VSUP3.3IO1	–	Supply Voltage Input/Output Port 1, 3.3 V	3.3V
115	P2_7	I/O	Port2,bit7 Input/Output	FPGA_SDA
116	P2_6	I/O	Port2,bit6 Input/Output	FPGA_SCK
117	P4_1	I/O	Port4,bit1 Input/Output	FPGA_SDE
118	P4_0	I/O	Port4,bit0 Input/Output	SVIJSW
119	P4_3	I/O	Port4,bit3 Input/Output	HSYNC_OSC
120	P4_2	I/O	Port4,bit2 Input/Output	VSYNC_OSC
121	PCLK2	O	Flat Panel Control Clock 2 Output	Open
122	PCLK1	O	Flat Panel Control Clock 1 Output	PCLK
123	GND1.8DIG	–	Ground Digital Core	GND
124	VSUP1.8DIG	–	Supply Voltage Digital Core, 1.8 V	1.8V
125	LVDSA_4P	O	LVDS Channel 1 bit 4 Positive Output 2)	Open
126	LVDSA_4N	O	LVDS Channel 1 bit 4 Negative Output 2)	Open
127	VSUP3.3LVDS	–	Supply Digital Voltage LVDS2) Port, 3.3 V	3.3V
128	LVDSA_3P	O	LVDS Channel 1 bit 3 Positive Output 2)	LVDS3P
129	LVDSA_3N	O	LVDS Channel 1 bit 3 Negative Output 2)	LVDS3N
130	GND3.3LVDS	–	Ground Digital LVDS2), 3.3 V	GND
131	LVDSA_CLKP	O	LVDS Channel 1 Clock Positive Output 2)	LVDSCP
132	LVDSA_CLKN	O	LVDS Channel 1 Clock Negative Output 2)	LVDSCN
133	VSUP3.3LVDS	–	Supply Digital Voltage LVDS2), 3.3 V	3.3V
134	LVDSA_2P	O	LVDS Channel 1 bit 2 Positive Output 2)	LVDS2P
135	LVDSA_2N	O	LVDS Channel 1 bit 2 Negative Output 2)	LVDS2N
136	GND3.3LVDS	–	Ground Digital LVDS2), 3.3 V	GND
137	LVDSA_1P	O	LVDS Channel 1 bit 1 Positive Output 2)	LVDS1P
138	LVDSA_1N	O	LVDS Channel 1 bit 1 Negative Output 2)	LVDS1N
139	VSUP3.3LVDS	–	Supply Digital Voltage LVDS2), 3.3 V	3.3V
140	LVDSA_0P	O	LVDS Channel 1 bit 0 Positive Output 2)	LVDS0P
141	LVDSA_0N	O	LVDS Channel 1 bit 0 Negative Output 2)	LVDS0N
142	VSUP1.8LVDS	–	Supply Analog Voltage LVDS2), 1.8 V	1.8V
143	REXT	–	LVDS External Resistor2)	REXT
144	GND1.8LVDS	–	Ground Analog LVDS2), 1.8 V	GND
145	LVDSB_3P	O	Dual-LVDS Channel 2 bit 3 Positive Output 2)	Open
146	LVDSB_3N	O	Dual-LVDS Channel 2 bit 3 Negative Output 2)	Open
147	GND3.3LVDS	–	Ground Digital LVDS2), 3.3 V	GND
148	LVDSBCLKP	O	Dual-LVDS Channel 2 Clock Positive Output 2)	Open
149	LVDSBCLKN	O	Dual-LVDS Channel 2 Clock Negative Output 2)	Open
150	VSUP3.3LVDS	–	Supply Digital Voltage LVDS2), 3.3 V	3.3V
151	LVDSB_2P	O	Dual-LVDS Channel 2 bit 2 Positive Output 2)	Open
152	LVDSB_2N	O	Dual-LVDS Channel 2 bit 2 Negative Output 2)	Open
153	GND3.3LVDS	–	Ground Digital LVDS2), 3.3 V	GND
154	LVDSB_1P	O	Dual-LVDS Channel 2 bit 1 Positive Output 2)	Open
155	LVDSB_1N	O	Dual-LVDS Channel 2 bit 1 Negative Output 2)	Open
156	VSUP3.3LVDS	–	Supply Digital Voltage LVDS2), 3.3 V	3.3V
157	LVDSB_0P	O	Dual-LVDS Channel 2 bit 0 Positive Output 2)	Open
158	LVDSB_0N	O	Dual-LVDS Channel 2 bit 0 Negative Output 2)	Open

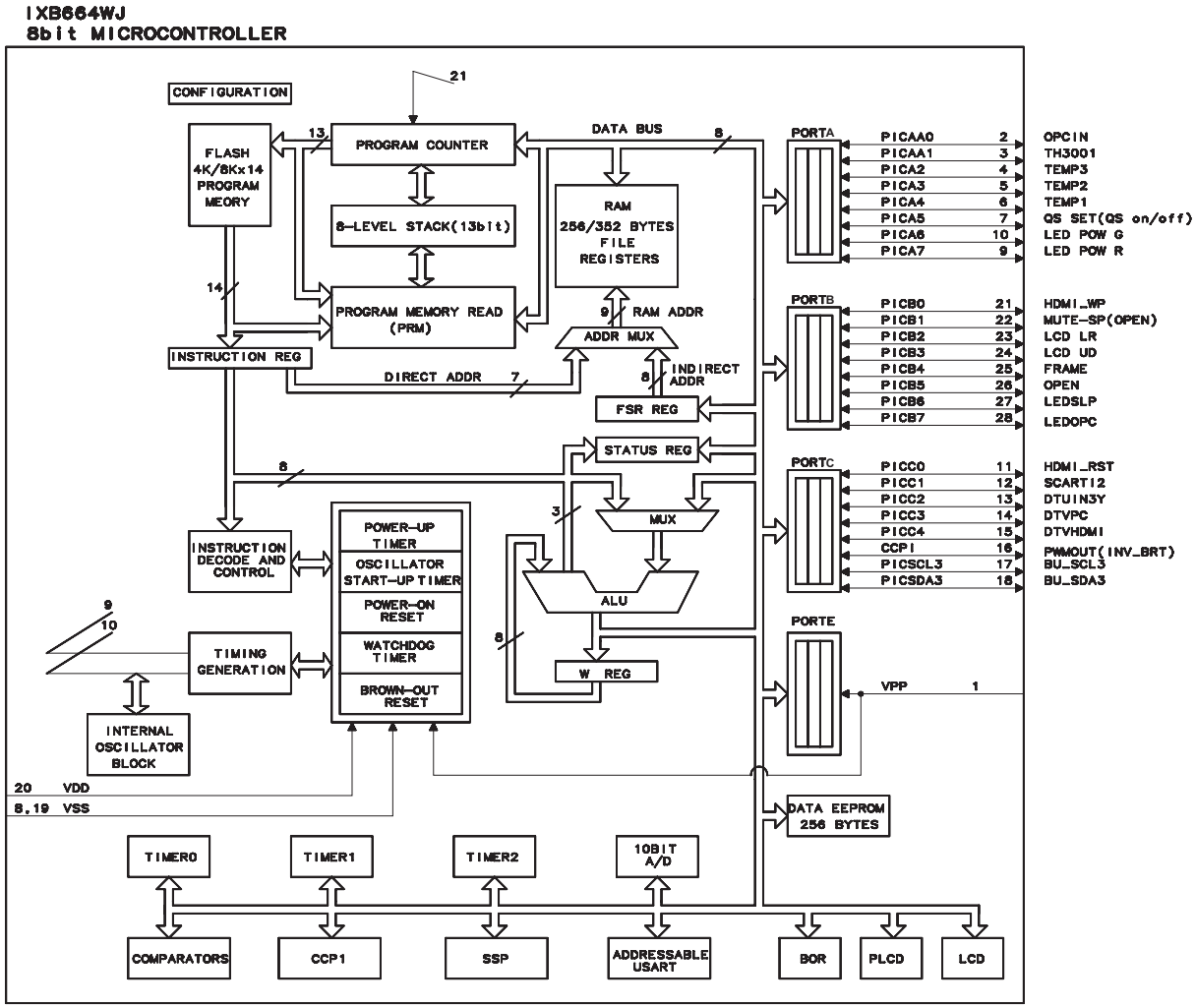
Pin No.	Pin Name	I/O	Pin Function	Sheet Name
159	P1_7	I/O	Port 1, Bit 7 Input/Output	IF_AGC
160	P1_6	I/O	Port 1, Bit 6 Input/Output	SLOW SW1
161	P1_5	I/O	Port 1, Bit 5 Input/Output	SLOW SW2
162	P1_4	I/O	Port 1, Bit 4 Input/Output	KEY_ETC
163	GND3.3DAC	–	Ground DAC	GND
164	VSUP3.3DAC	–	Supply Voltage DAC, 3.3V	3.3V
165	P1_3	I/O	Port 1, Bit 3 Input/Output	Open
166	P1_2	I/O	Port 1, Bit 2 Input/Output	Open
167	P1_1	I/O	Port 1, Bit 1 Input/Output	Open
168	P1_0	I/O	Port 1, Bit 0 Input/Output	Open
169	VSUP1.8FE	–	Supply Voltage Analog Video Frontend, 1.8 V	1.8V
170	VSUP3.3FE	–	Supply Voltage Analog Video Frontend, 3.3 V	3.3V
171	DHS	I	Digital Video H-sync Input	DHSYNC
172	VIN21	I	Analog Video 21B HD Input	PC_V_B
173	VIN20	I	Analog Video 20 G HD Input	PC_V_G
174	VIN19	I	Analog Video 19 R HD Input	PC_V_R
175	VIN18	I	Analog Video 18 Fast Blank 2 Input	IN2_FSW
176	VIN17	I	Analog Video 17 B HD Input	BLUE2
177	VIN16	I	Analog Video 16 G HD Input	GREEN2
178	VIN15	I	Analog Video 15 R HD Input	RED/C2
179	VIN13	I	Analog Video 13 B HD Input	D TUNER_B
180	VIN12	I	Analog Video 12 G HD Input	D_TUNER_G
181	VIN11	I	Analog Video 11 R HD Input	D_TUNER_R
182	VIN9	I	Analog Video 9 Y or B SD Input	BLUE1
183	VIN8	I	Analog Video 8 C or Fast Blank 1 Input	IN3C
184	VIN7	I	Analog Video 7 Y or G SD Input	IN3Y
185	VSUP1.8FE	–	Supply Voltage Analog Video Frontend, 1.8 V	1.8V
186	VSUP1.8FE	–	Analog Video Frontend, Platform Ground	GND
187	VIN6	I	Analog Video 6 C or R SD Input	RED/C1
188	VIN5	I	Analog Video 5 Y/CVBS Input	GREEN1
189	VIN3	I	Analog Video 3 CVBS Input	IN1_FSW
190	VIN2	I	Analog Video 2 CVBS Input	VIN_2
191	VIN1	I	Analog Video 1 CVBS Input	A_TUNER_CVBS
192	VSUP3.3VO	–	Supply Voltage Analog Video Output, 3.3 V	3.3V
193	VOUT3	O	Analog CVBS Video 3 Output	Open
194	VOUT2	O	Analog CVBS Video 2 Output	CV02 (outV)
195	VOUT1	O	Analog CVBS Video 1 Output	CV01 (outNV)
196	GND3.3IO3	–	Ground Digital Input/Output Port 1	GND
197	VSUP3.3IO3	–	Supply Voltage Input/Output Port 1, 3.3 V	3.3V
198	656I0	I	Digital 656 Bit 0 Input (LSB)	FRCO [0]
199	656I1	I	Digital 656 Bit 1 Input	FRCO [1]
200	656I2	I	Digital 656 Bit 2 Input	FRCO [2]
201	656I3	I	Digital 656 Bit 3 Input	FRCO [3]
202	656I4	I	Digital 656 Bit 4 Input	FRCO [4]
203	656I5	I	Digital 656 Bit 5 Input	FRCO [5]
204	656I6	I	Digital 656 Bit 6 Input	FRCO [6]
205	656I7	I	Digital 656 Bit 7 Input	FRCO [7]
206	656CLKI	I	Digital 656 Clock Input	FRCCKO
207	656CLKO	O	Digital 656 Clock Output	FRCCKI
208	656O7	O	Digital 656 Bit 7 Output	FRCI [7]

1) TTL output version only

2) LVDS output version only

2.4. IC3003 (RH-IXB664WJZZY)

2.4.1 Block Diagram



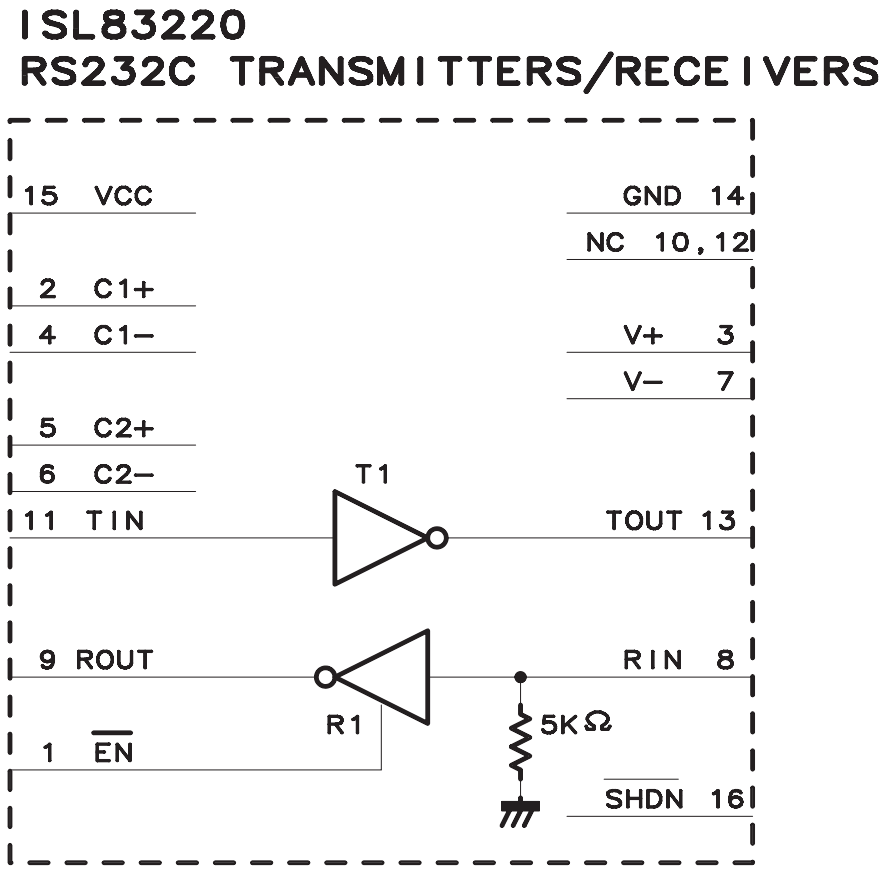
2.4.2 Pin Connections and short description

Pin No.	Pin Name	I/O	Pin Function	Sheet Name
2	PICAA0	I	OPC_in Signal.	OPCIN
3	PICAA1	I	Connect to TH3001.	TH3001
4	PICA2	O	TEM3 Signal.	TEMP3
5	PICA3	O	TEMP2 Signal.	TEMP2
6	PICA4	O	TEMP1 Signal.	TEMP1
7	PICA5	O	QS' on/off Signal.	QS SET (QS on/off)
10	PICA6	I	LED Power Green Signal.	LED POW G
9	PICA7	I	LED Power Red Signal.	LED POW R
21	PICBO	O	HDMI_Write Protect Signal.	HDMI_WP
22	PICB1	O	Mute_SP Signal.	MUTE-SP (Open)
23	PICB2	O	LCD, S_LBR Signal.	LCD LR
24	PICB3	O	LCD, G_LBR Signal.	LCD UD
25	PICB4	O	50/60Hz Ds_Select Signal.	FRAME
26	PICB5	–	–	Open
27	PICB6	I	LED Sleep LED IN Signal.	LEDSLP
28	PICB7	I	LED OPC IN Signal.	LED OPC
11	PICCO	O	Reset Signal to HDMI.	HDMI_RST
12	PICC1	O	SCART1/SCART2 Select Signal.	SCART12
13	PICC2	O	DTU/IN3Y Select Signal.	DTUIN3Y
14	PICC3	O	DTV/PC Select Signal.	DTVPC
15	PICC4	O	DTV/HDMI Select Signal.	DTVHDMI

Pin No.	Pin Name	I/O	Pin Function	Sheet Name
16	CCPI	O	INVERTER_BRT Signal.	PWMOUT (INV_BRT)
17	PICSCL3	I/O	I2C clock.	BU_SCL3
18	PICSDA3	I/O	I2C data.	BU_SDA3
1	VPP	–	Open	Open
20	3.3V	–	Power Supply for microcontroller	VSUP3.3DRI
8, 19	GND	–	Ground reference for microcontroller	GND

2.5. IC2301 (VHIISL83220-1Y)

2.5.1 Block Diagram

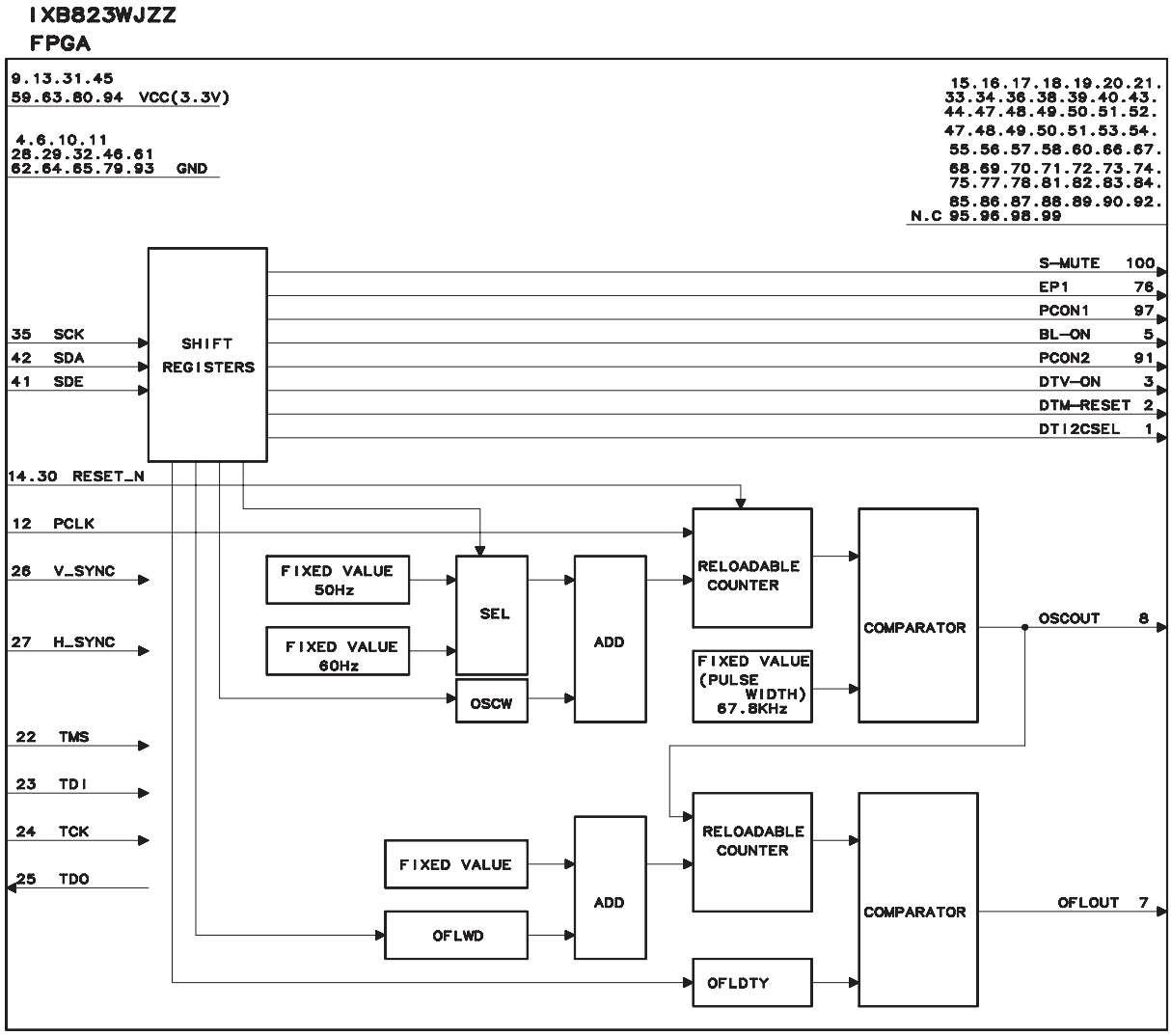


2.5.2 Pin Connections and short description

Pin No.	Pin Name	I/O	Pin Function
15	VCC	–	System power supply input (3.0V to 5.5V).
3	V+	–	Intemally generated positive transmitter supply (+5.5V).
7	V-	–	Internally generated negative transmitter supply (-5.5V).
14	GND	–	Ground connection.
2	C1+	–	External capacitor (voltage doubler) is connected to this lead.
4	C1-	–	External capacitor (voltage doubler) is connected to this lead.
5	C2+	–	External capacitor (voltage doubler) is connected to this lead.
6	C2-	–	External capacitor (voltage doubler) is connected to this lead.
11	TIN	I	TTL/CMOS compatible transmitter inputs.
13	TOUT	O	±15KV ESD Protected, RS-232 level (nominally ±5.5V) transmitter output.
8	RIN	I	±15KV ESD Protected, RS-232 compatible receiver inputs.
9	ROUT	O	TTL/CMOS level receiver output.
1	$\overline{EN}$	O	Active low receiver enable control; doesn't disable ROUTB output.
16	$\overline{SHDN}$	–	Active low input shuts down transmitters and on-board power supply, to place device in low power mode.
10	N.C.	–	No internal connection.

2.6. IC1710 (RH-IXB823WJZZQ)

2.6.1 Block Diagram



2.6.2 Pin Connections and short description

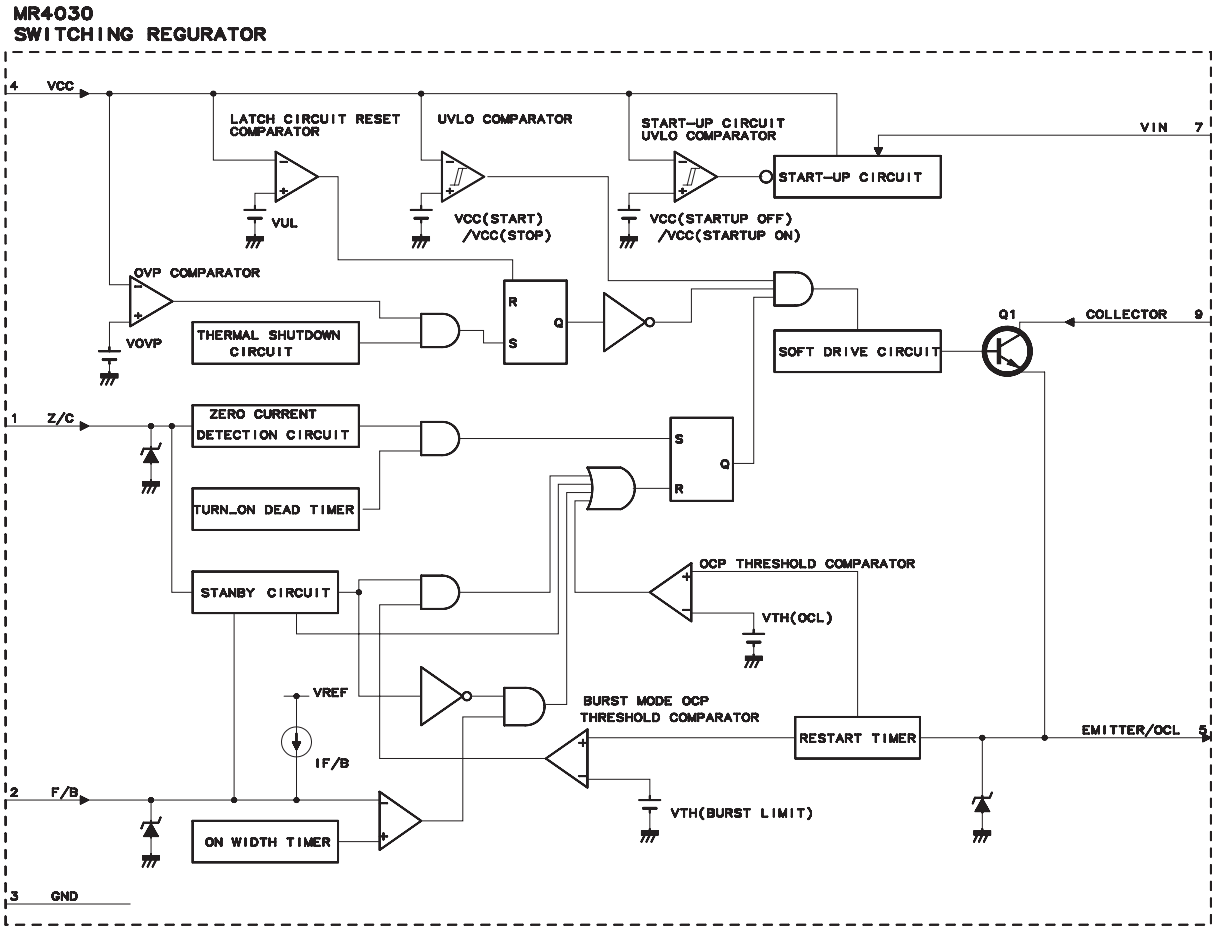
Pin No.	Pin Name	I/O	Pin Function	Sheet Name
1	EXP [7]	O	Outport [7]	DTI2CSEL
2	EXP [6]	O	Outport [6]	DTM_RESET
3	EXP [5]	O	Outport [5]	DTV_ON
4	GND*	–	Ground	N.C.
5	EXP [3]	O	Outport [3]	BL_ON
6	GND*	–	Ground	N.C.
7	OFLOUT	O	OFL signal output	OFLOUT
8	OSCOUT	O	OSC signal output	OSCOUT
9	VCCIO1	–	VCC (3.3V)	FPGA_VCC
10	GNDIO	–	Ground	Ground.
11	GNDINT	–	ground.	Ground.
12	PCLK	I	Reference clock input	PCLK
13	VCCINT	–	VCC (3.3V)	FPGA_VCC
14	GCLR	I	RESET terminal. L: RESET, H: Normal	RESET_N
15	GND*	–	N.C.	N.C.
16	GND*	–	N.C.	N.C.
17	GND*	–	N.C.	N.C.
18	GND*	–	N.C.	N.C.
19	GND*	–	N.C.	N.C.
20	GND*	–	N.C.	N.C.

Pin No.	Pin Name	I/O	Pin Function	Sheet Name
21	GND*	–	N.C.	N.C.
22	#TMS	I	Pin for JTAG write	FPGA_TMS
23	#TDI	I	Pin for JTAG write	FPGA_TDI
24	#TCK	I	Pin for JTAG write	FPGA_TCK
25	#TDO	O	Pin for JTAG write	FPGA_TDO
26	VSYNC	I	V sync input (not used)	V_SYNC
27	HSYNC	I	H sync input (not used)	H_SYNC
28	GND*	–	N.C.	N.C.
29	GND*	–	N.C	N.C.
30	DMY_IN	I	Dummy pin for RESET line wiring (no effect on operation)	RESET_N
31	VCCIO1	–	VCC (3.3V)	FPGA_VCC
32	GNDIO	–	Ground.	Ground.
33	GND*	–	N.C.	N.C.
34	GND*	–	N.C.	N.C.
35	SCK	I	Microprocessor control bus clock	SCK
36	GND*	–	N.C.	N.C.
37	GND*	–	N.C.	N.C.
38	GND*	–	N.C.	N.C.
39	GND*	–	N.C.	N.C.
40	GND*	–	N.C.	N.C.
41	SEN	I	Microprocessor control bus enable	SDE
42	SDA	I	Microprocessor control bus data	SDA
43	GND*	–	N.C.	N.C.
44	GND*	–	N.C.	N.C.
45	VCCIO1	–	VCC (3.3V)	FPGA_VCC
46	GNDIO	–	Ground.	Ground.
47	GND*	–	N.C.	N.C.
48	GND*	–	N.C.	N.C
49	GND*	–	N.C.	N.C.
50	GND*	–	N.C.	N.C.
51	GND*	–	N.C.	N.C.
52	GND*	–	N.C.	N.C.
53	GND*	–	N.C.	N.C.
54	GND*	–	N.C.	N.C.
55	GND*	–	N.C.	N.C.
56	GND*	–	N.C.	N.C.
57	GND*	–	N.C.	N.C.
58	GND*	–	N.C.	N.C.
59	VCCIO2	–	VCC (3.3V)	FPGA_VCC
60	GNDIO	–	Ground.	Ground.
61	GND*	–	Ground.	N.C.
62	GND*	–	Ground.	Ground.
63	VCCINT	–	VCC (3.3V)	FPGA_VCC
64	GND*	–	Ground.	Ground.
65	GNDINT	–	Ground.	Ground.
66	GND*	–	N.C.	N.C.
67	GND*	–	N.C	N.C.
68	GND*	–	N.C	N.C.
69	GND*	–	N.C	N.C.
70	GND*	–	N.C	N.C.
71	GND*	–	N.C	N.C.
72	GND*	–	N.C	N.C.
73	GND*	–	N.C	N.C.
74	GND*	–	N.C	N.C.
75	GND*	–	N.C	N.C.
76	EXP [1]	O	Outport [1]	EP1
77	GND*	–	N.C	N.C.
78	GND*	–	N.C.	N.C.
79	GNDIO	–	Ground.	Ground.
80	VCCIO2	–	VCC (3.3V)	FPGA_VCC
81	GND*	–	N.C.	N.C
82	GND*	–	N.C.	N.C
83	GND*	–	N.C.	N.C
84	GND*	–	N.C.	N.C

Pin No.	Pin Name	I/O	Pin Function	Sheet Name
85	GND*	–	N.C.	N.C
86	GND*	–	N.C.	N.C
87	GND*	–	N.C.	N.C
88	GND*	–	N.C.	N.C
89	GND*	–	N.C.	N.C
90	GND*	–	N.C.	N.C
91	EXP [4]	O	Outport [4]	PCON2 (EP4)
92	GND*	–	N.C.	N.C
93	GNDIO	–	Ground.	Ground.
94	VCCIO2	–	VCC (3.3V)	FPGA_VCC
95	GND*	–	N.C.	N.C
96	GND*	–	N.C.	N.C
97	EXP [2]	O	Outport [2]	PCON1 (EP2)
98	GND*	–	N.C	N.C
99	GND*	–	N.C.	N.C
100	EXP [0]	O	Outport [0]	S_MUTE

2.7. IC704 (VHIMR4030++-1)

2.7.1 Block Diagram



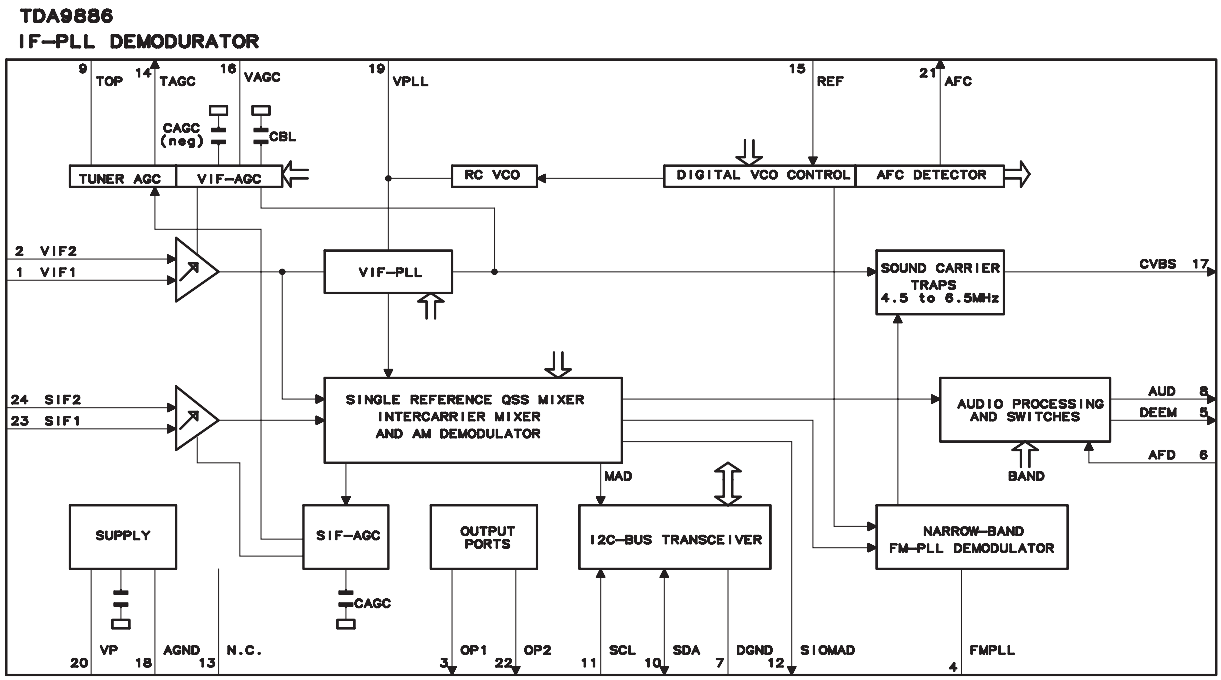
2.7.2 Pin Connections and short description

Pin No.	Pin Name	I/O	Pin Function
1	Z/C	I	Zero Current Detection Terminal.
2	F/B	I	Feed Back terminal.
3	GND	–	Ground Terminal.
4	VCC	–	VCC Terminal.
5	Emitter/OCL	O	Emitter/OCL terminal.

Pin No.	Pin Name	I/O	Pin Function
7	VIN	I	VIN Terminal.
8	Collector	I	Collector Terminal.

2.8. IC201 (VHITDA9886+-1Y)

2.8.1 Block Diagram



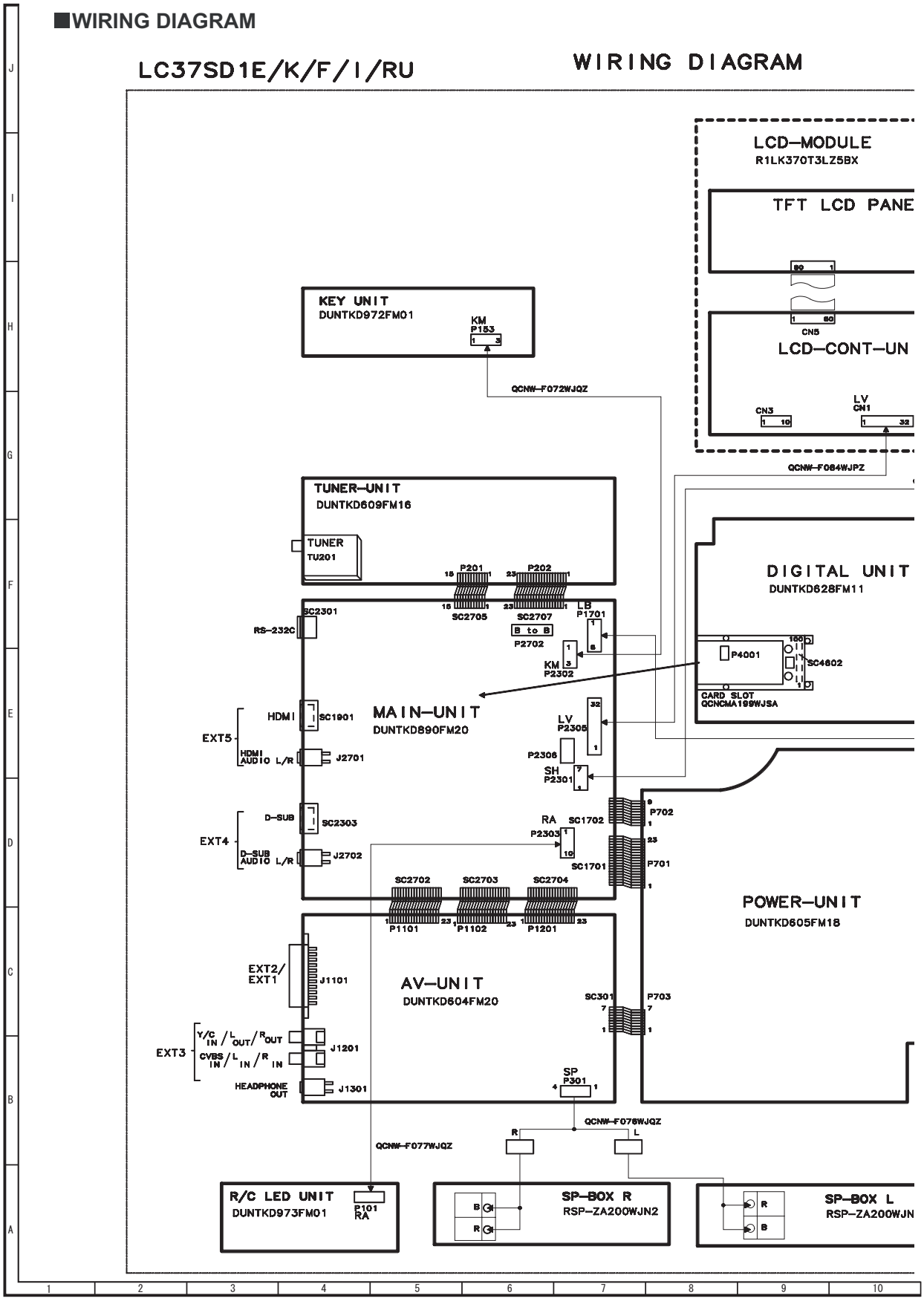
2.8.2 Pin Connections and short description

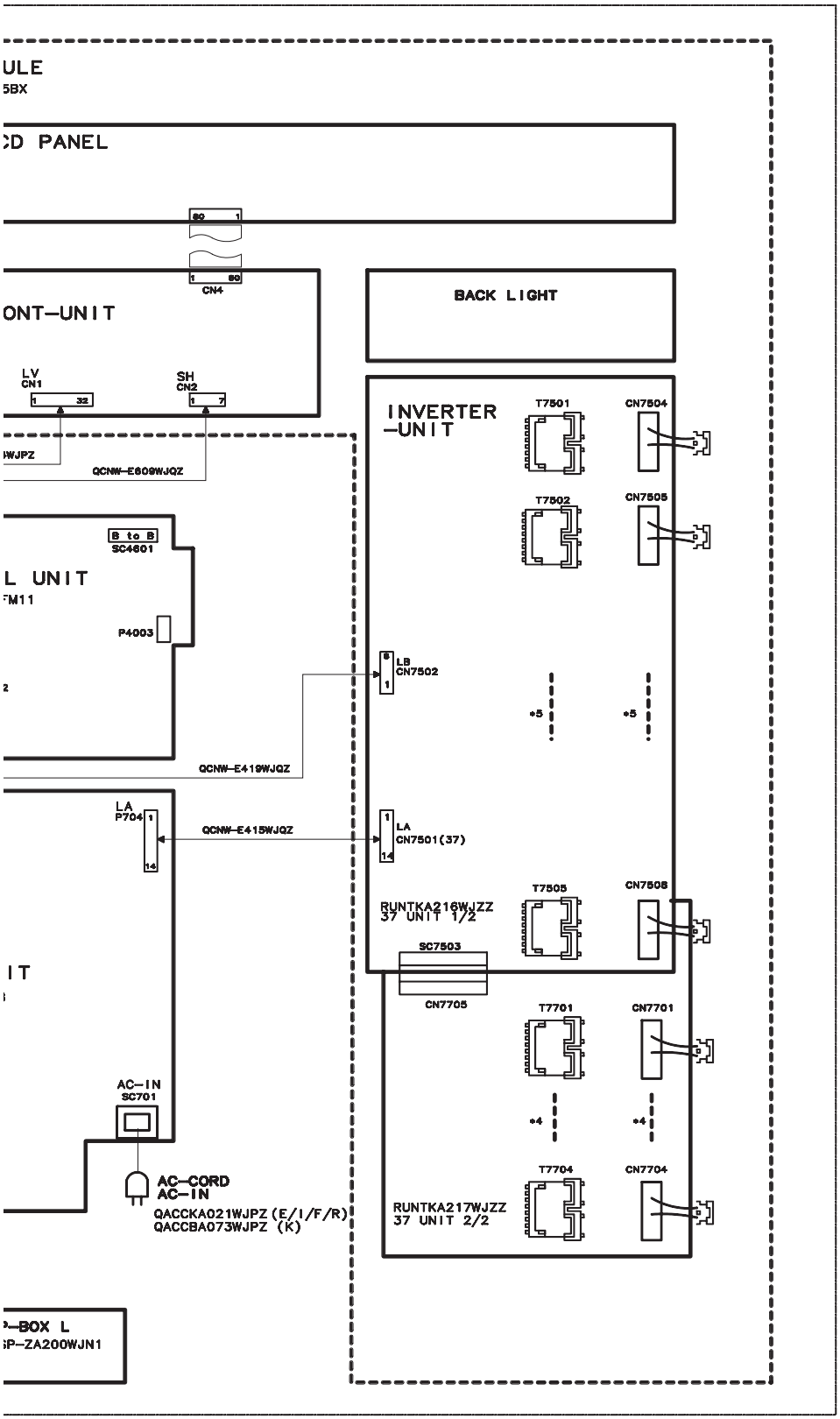
Pin No.	Pin Name	I/O	Pin Function
1	VIF1	I	VIF differential input 1
2	VIF2	I	VIF differential input 2
3	OP1	O	Output port 1; open-collector.
4	FMPLL	I	FM-PLL for loop filter.
5	DEEM	O	De-emphasis output for capacitor.
6	AFD	I	AF decoupling input for capacitor
7	DGND	–	Digital ground.
8	AUD	O	Audio output.
9	TOP	I	Tuner AGC TakeOver Pint (TOP) for resistor adjustment.
10	SDA	I/O	I2C-bus data input and output.
11	SCL	I	I2C-bus clock input.
12	SIOMAD	O	Sound intercarrier output and MAD select with resistor.
13	N.C.	–	Not connected.
14	TAGC	O	Tuner AGC output.
15	REF	I	4 MHz crystal or reference signal input.
16	VAGC(1)	I	VIF-AGC for capacitor.
17	CVBS	O	Composite video output.
18	AGND	–	Analog ground.
19	VPLL	I	VIF-PLL for loop filter.
20	VP	–	Supply voltage.
21	AFC	O	AFC output.
22	OP2	O	Output port 2; open-collector.
23	SIF1	I	SIF differential input 1 and MAD select with resistor.
24	SIF2	I	SIF differential input 2 and MAD select with resistor.

CHAPTER 6. OVERALL WIRING DIAGRAM/BLOCK DIAGRAM

[1] OVERALL WIRING DIAGRAM

■WIRING DIAGRAM

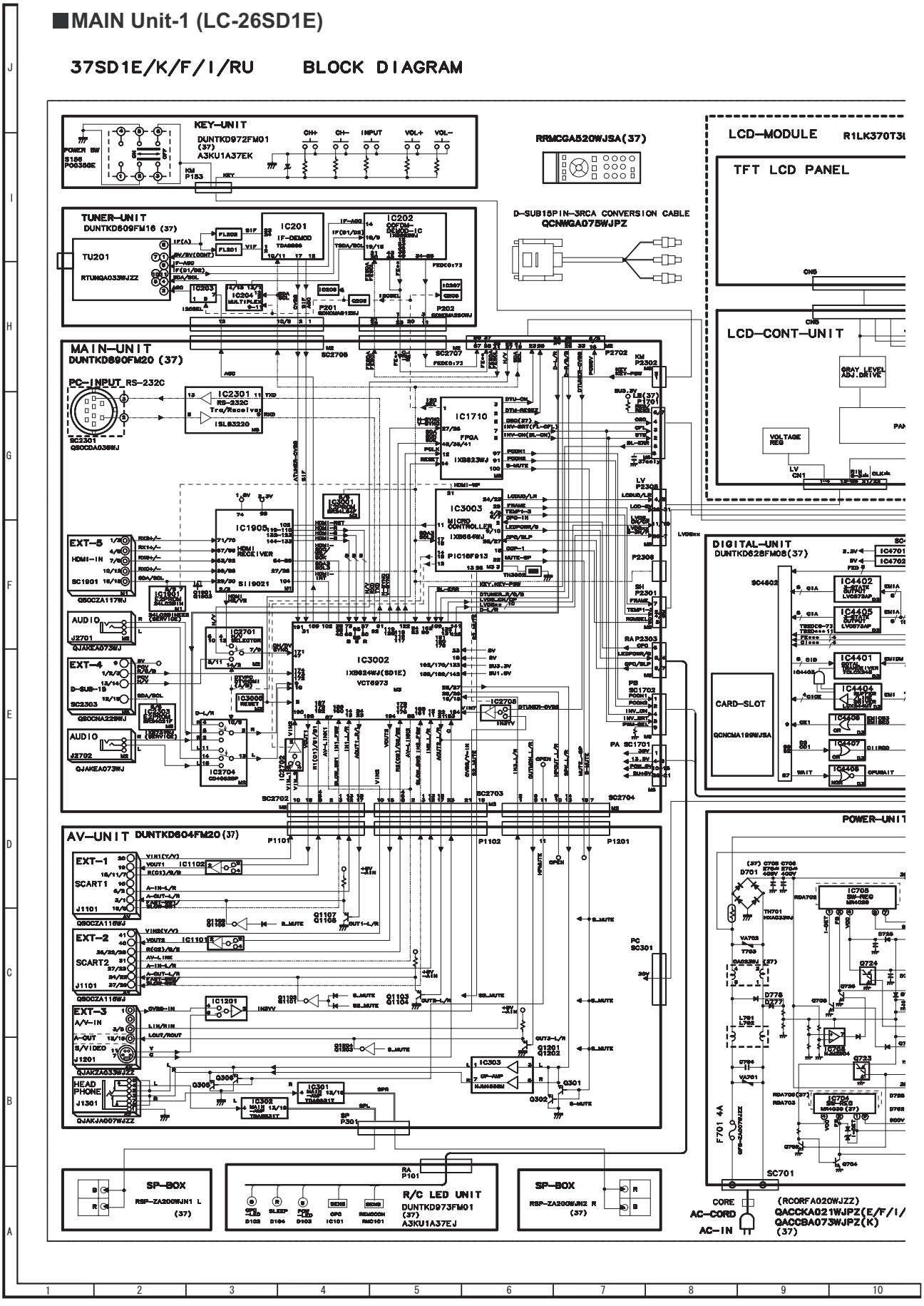


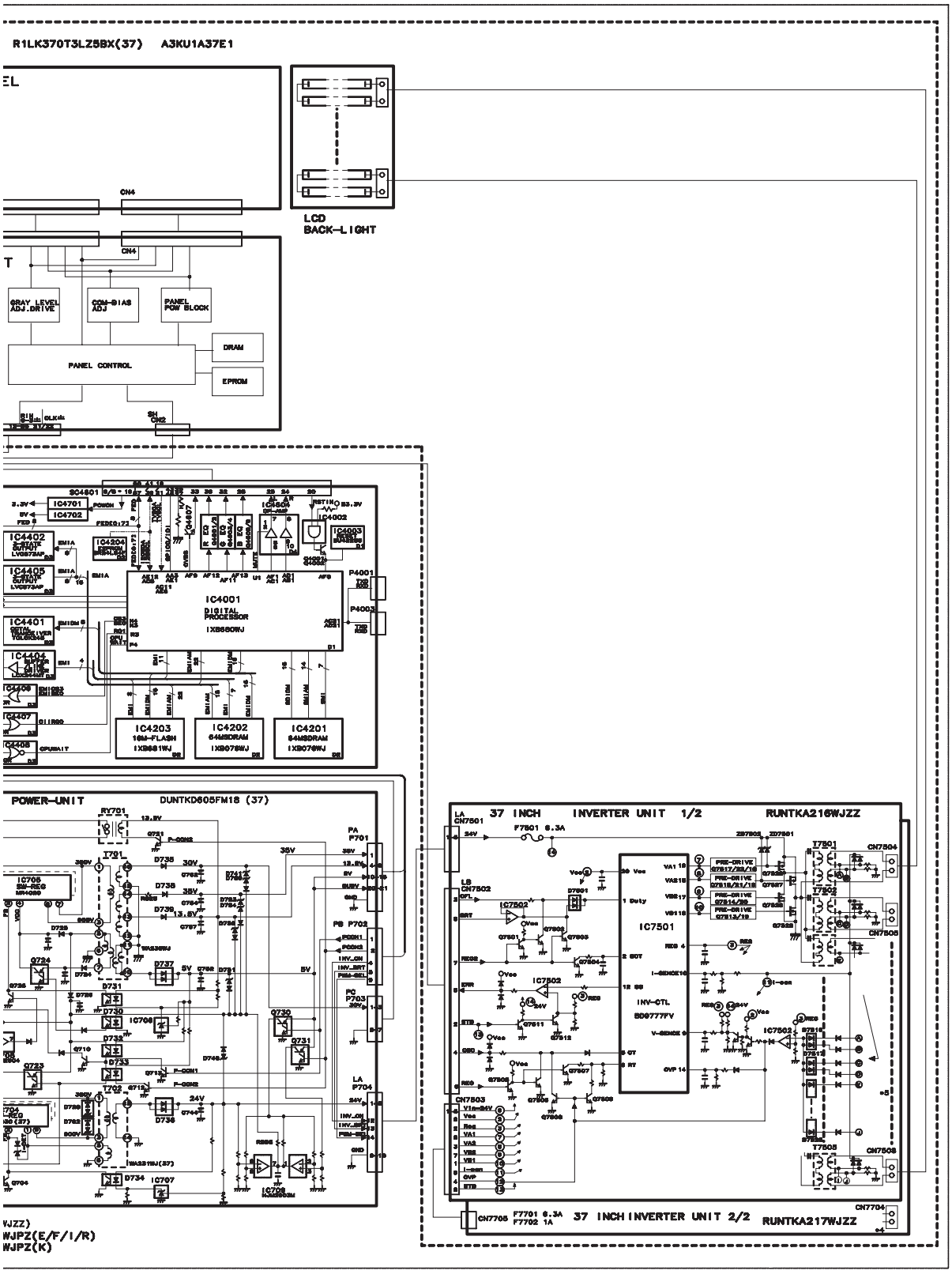

ULE
5BX
CD PANEL
80 1
1 80
CN4
ONT–UNIT
LV
CN1
1 32
SH
CN2
1 7
WJPZ
QCNW–E609WJQZ
BACK LIGHT
INVERTER
–UNIT
T7501
CN7504
T7502
CN7505
B to B
SC4601
L UNIT
FM11
P4003
2
LB
CN7502
6
1
•5
•5
QCNW–E419WJQZ
LA
P704
1
14
QCNW–E415WJQZ
1
14
LA
CN7501(37)
T7505
CN7508
RUNTKA216WJZZ
37 UNIT 1/2
SC7503
CN7705
IT
T7701
CN7701
•4
•4
AC–IN
SC701
AC–CORD
AC–IN
QACCKA021WJPZ (E/I/F/R)
QACCBA073WJPZ (K)
T7704
CN7704
RUNTKA217WJZZ
37 UNIT 2/2
–BOX L
SP–ZA200WJN1
11
12
13
14
15
16
17
18
19

[2] BLOCK DIAGRAM

■MAIN Unit-1 (LC-26SD1E)

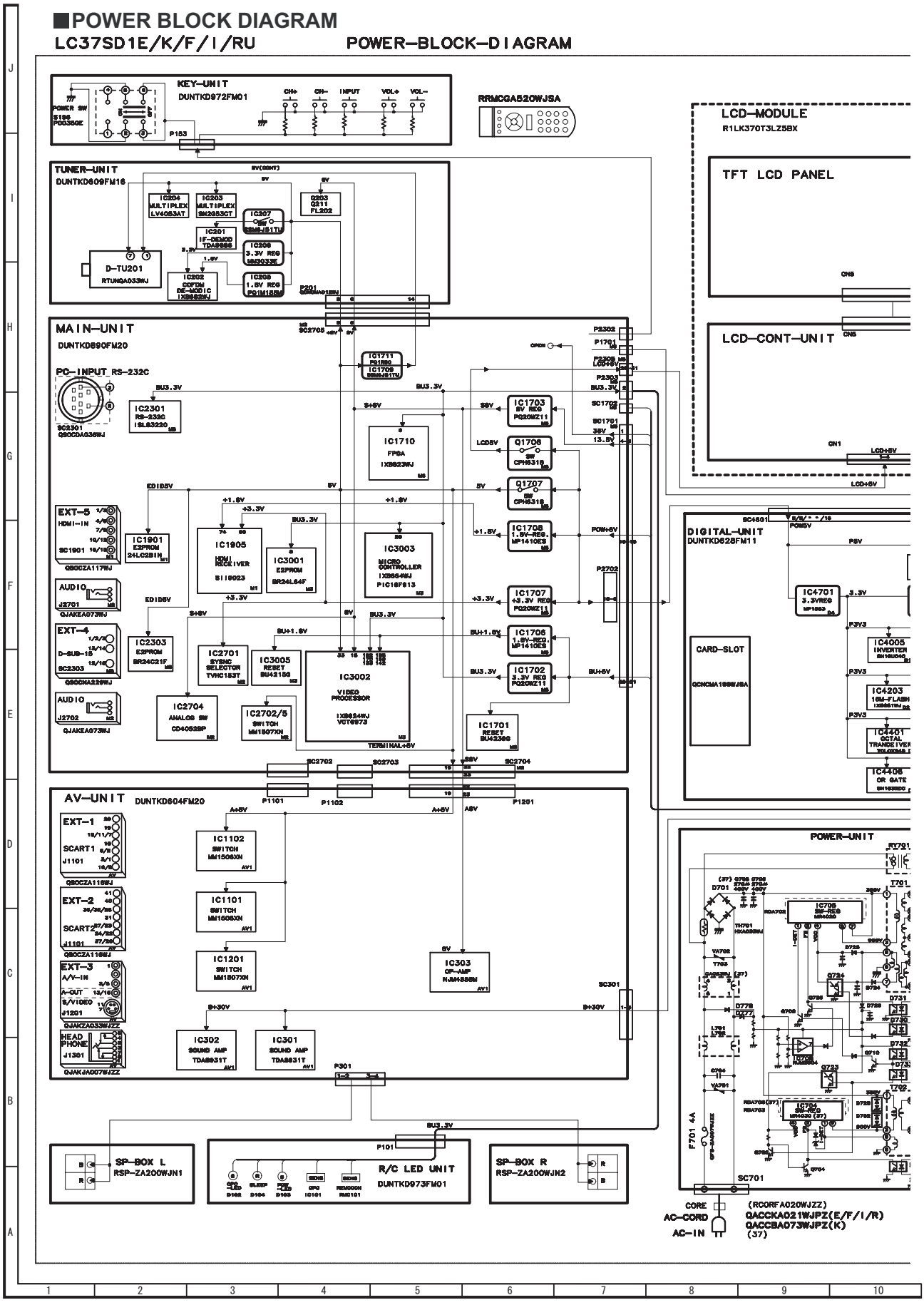
37SD1E/K/F/I/RU BLOCK DIAGRAM

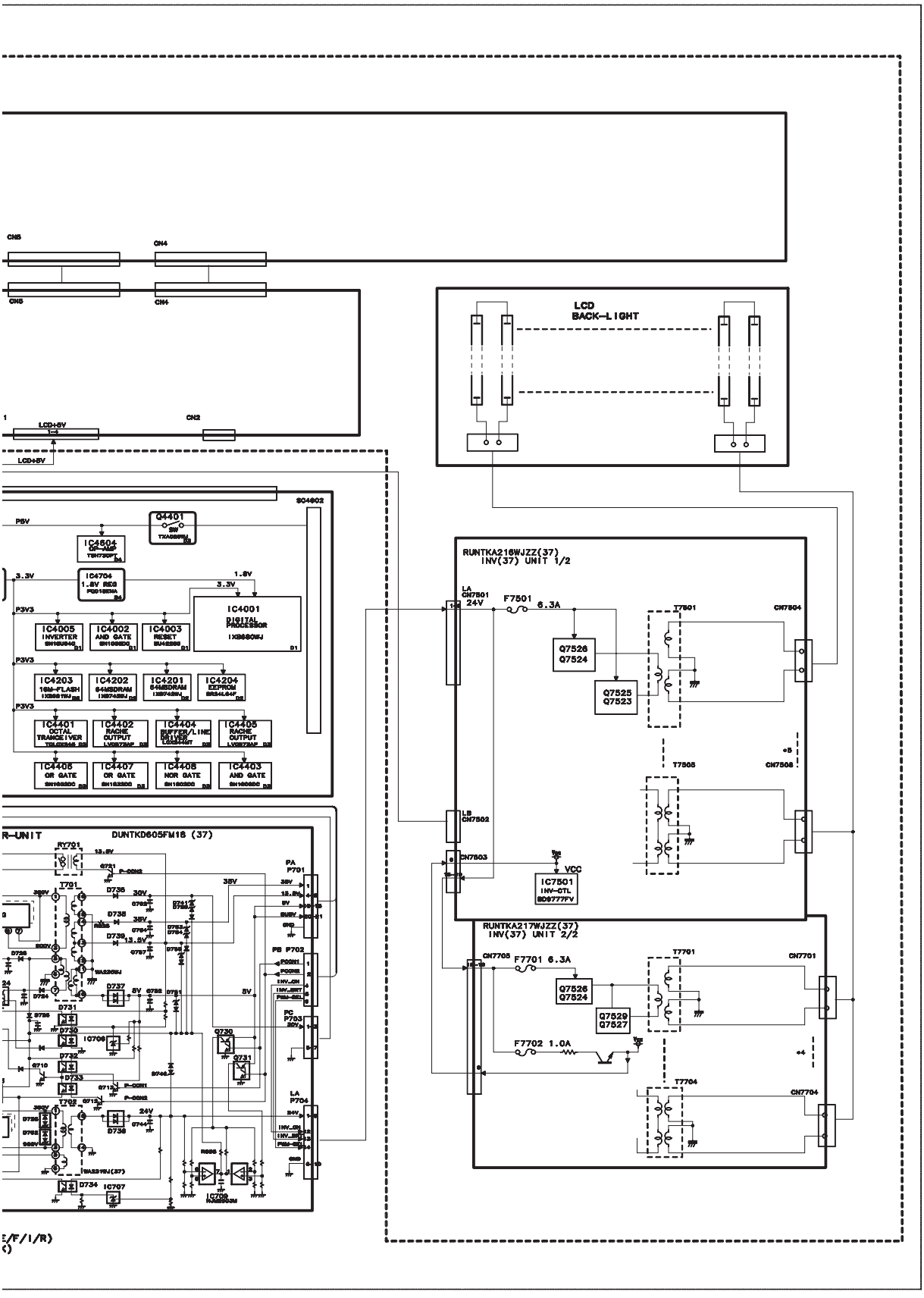




11	12	13	14	15	16	17	18	19

[3] POWER BLOCK DIAGRAM

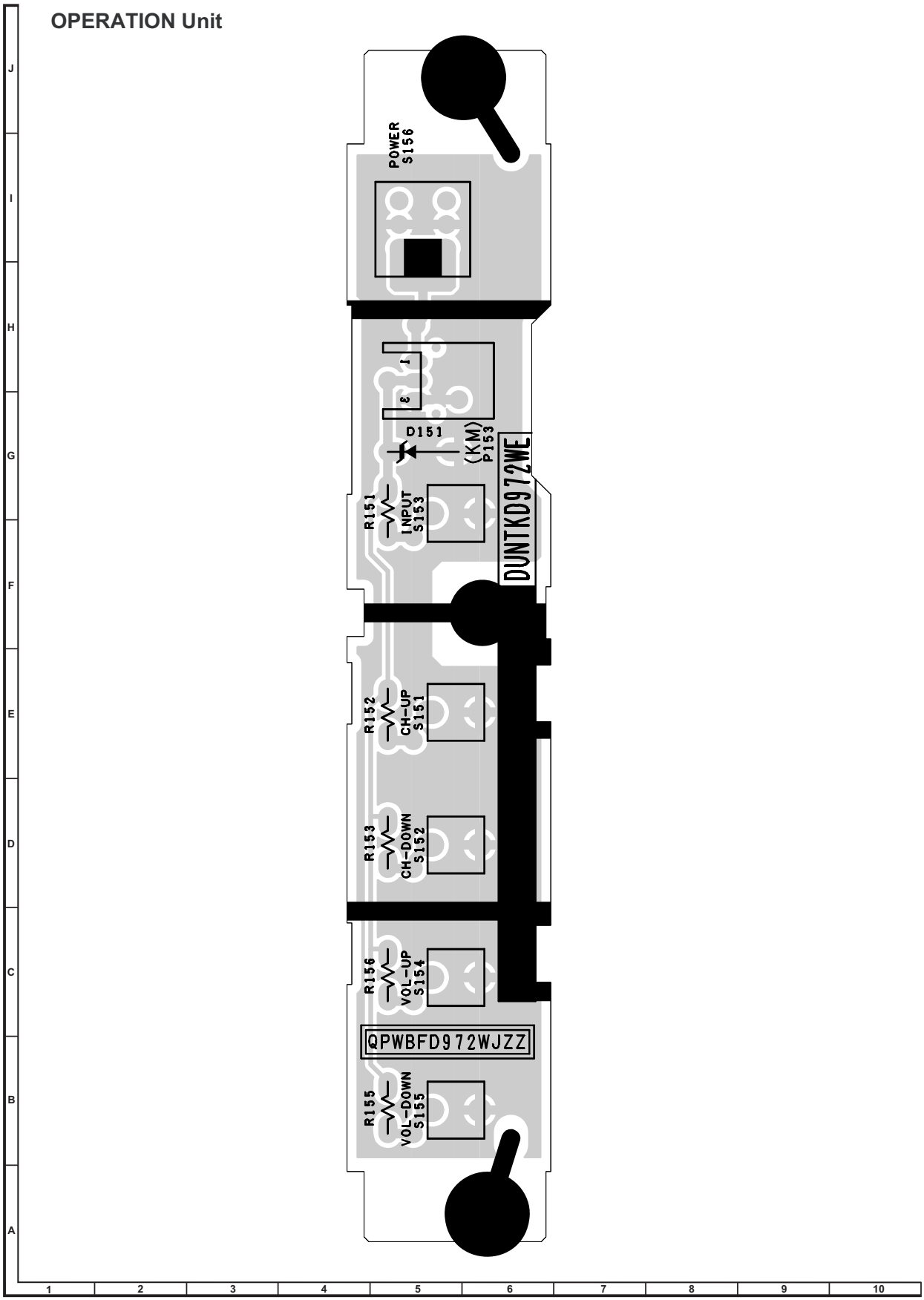




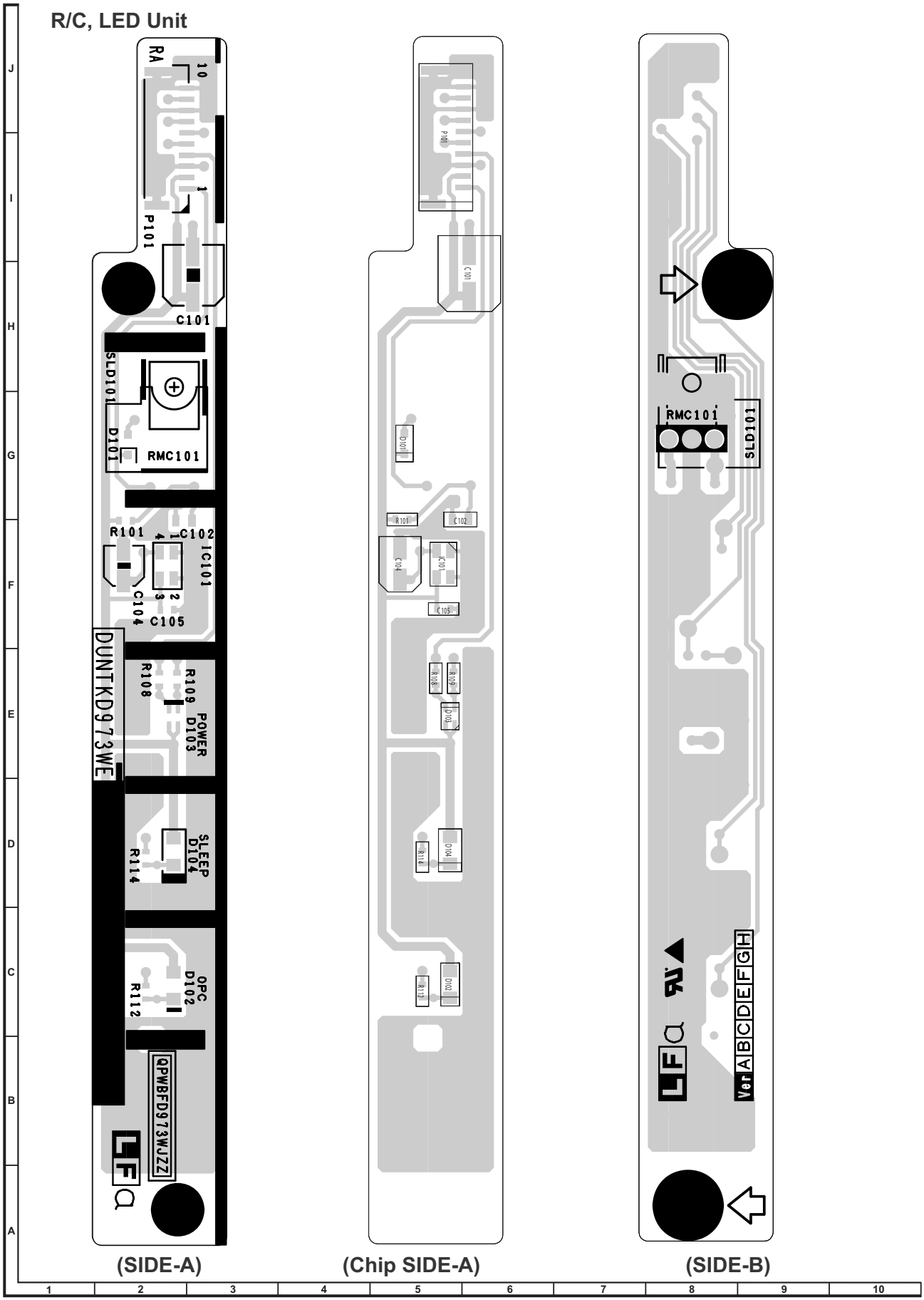
11	12	13	14	15	16	17	18	19

CHAPTER 7. PRINTED WIRING BOARD

[1] OPERATION UNIT PRINTED WIRING BOARD

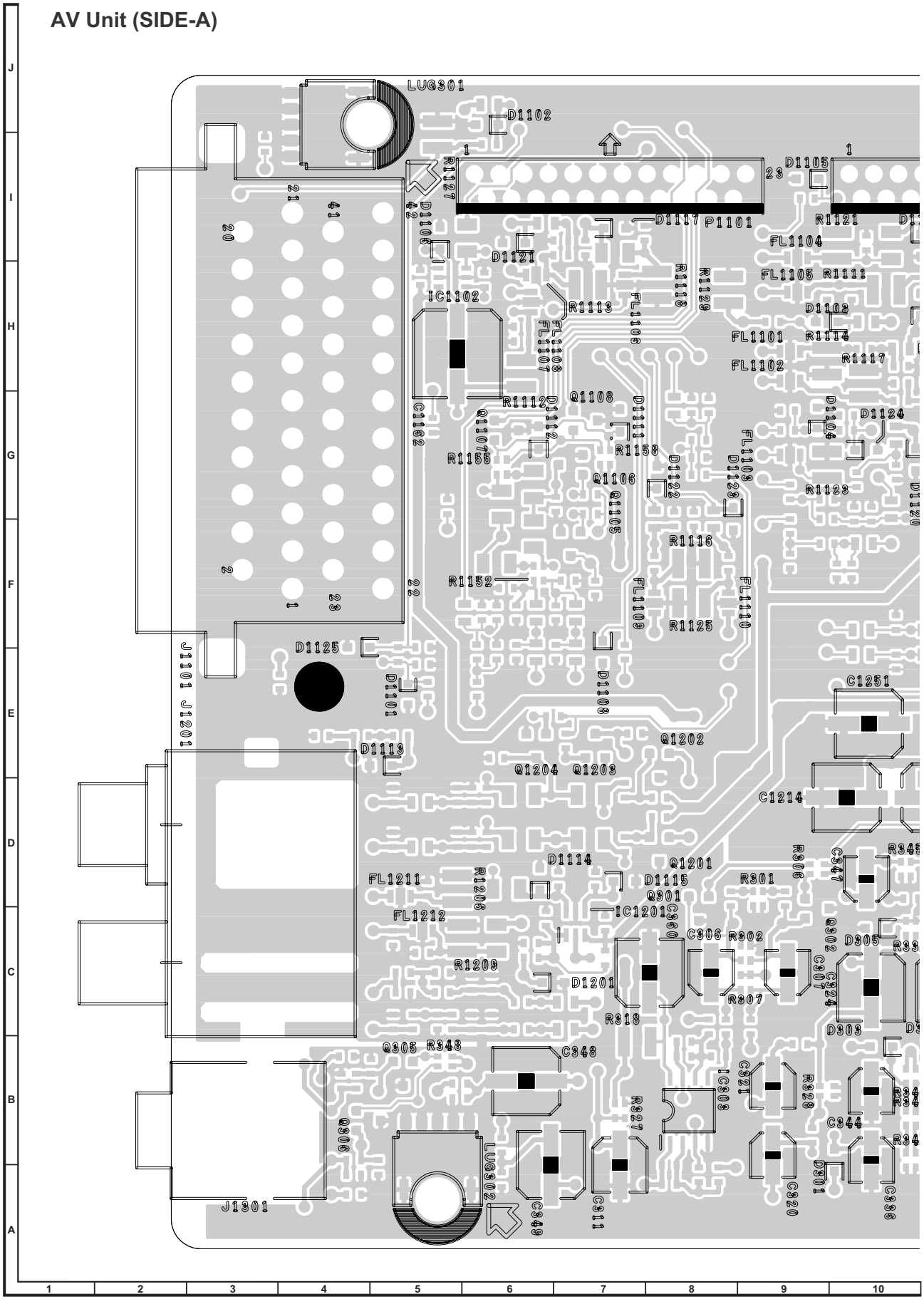


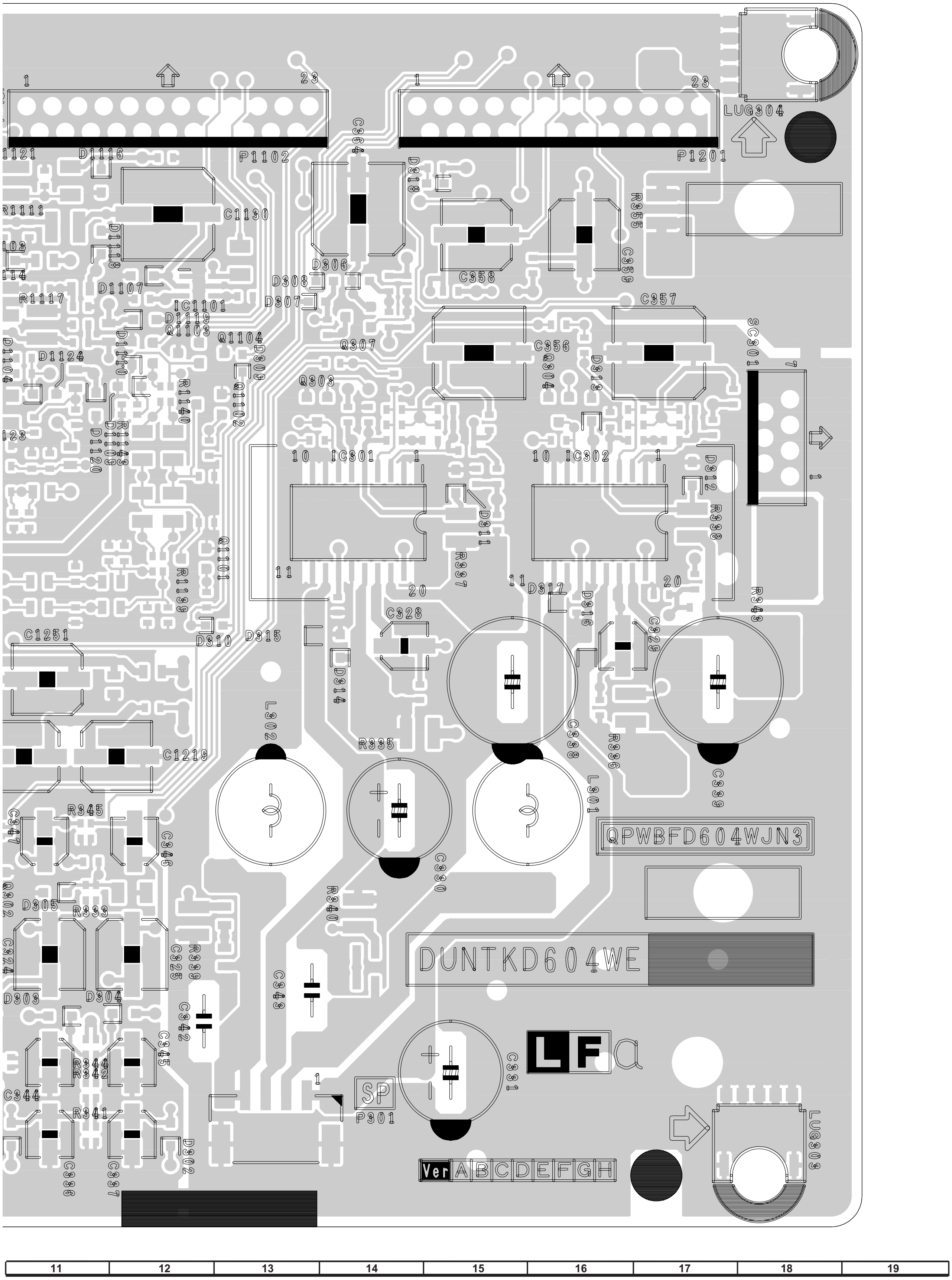
[2] R/C, LED UNIT PRINTED WIRING BOARD



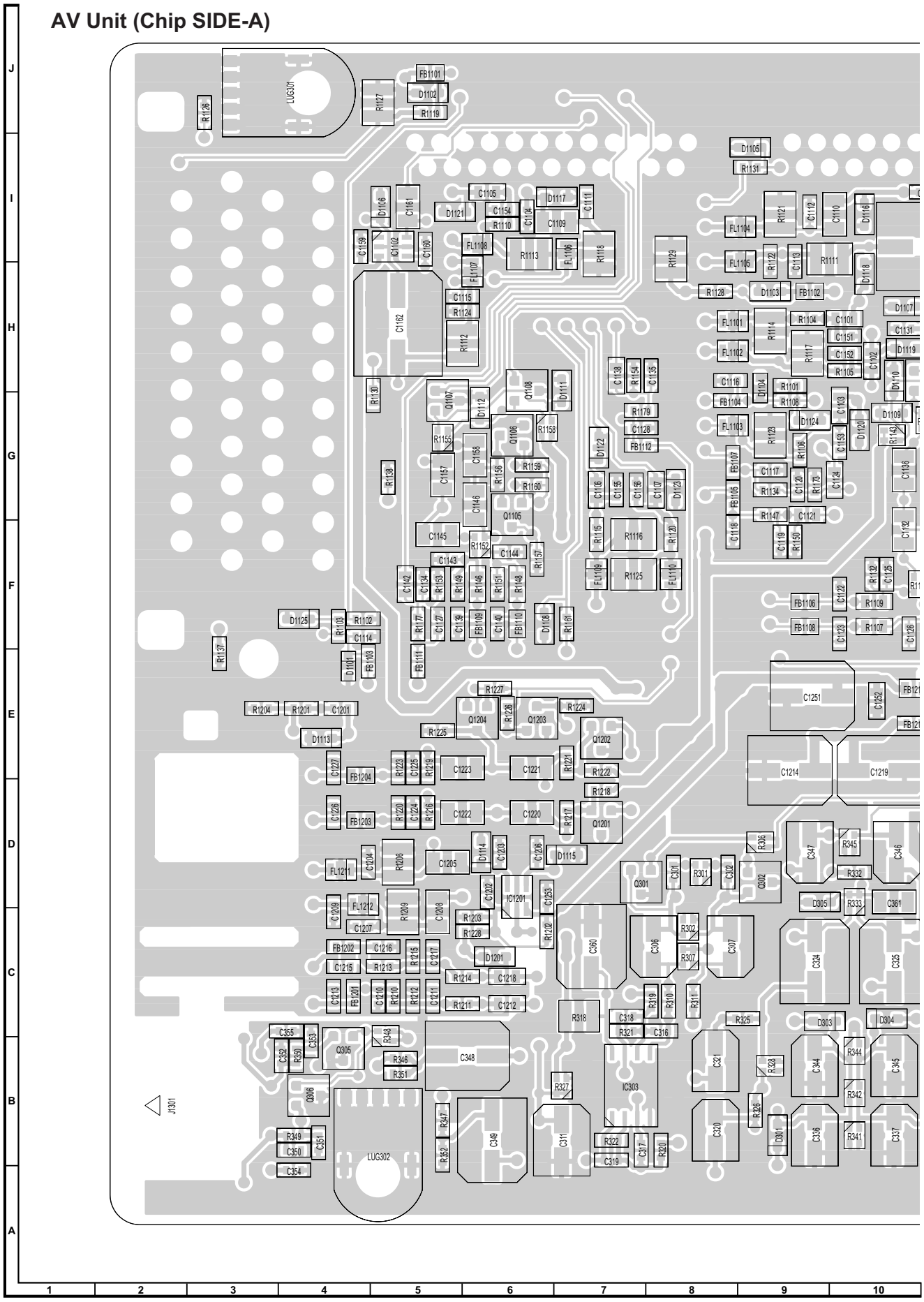
[3] AV UNIT PRINTED WIRING BOARD

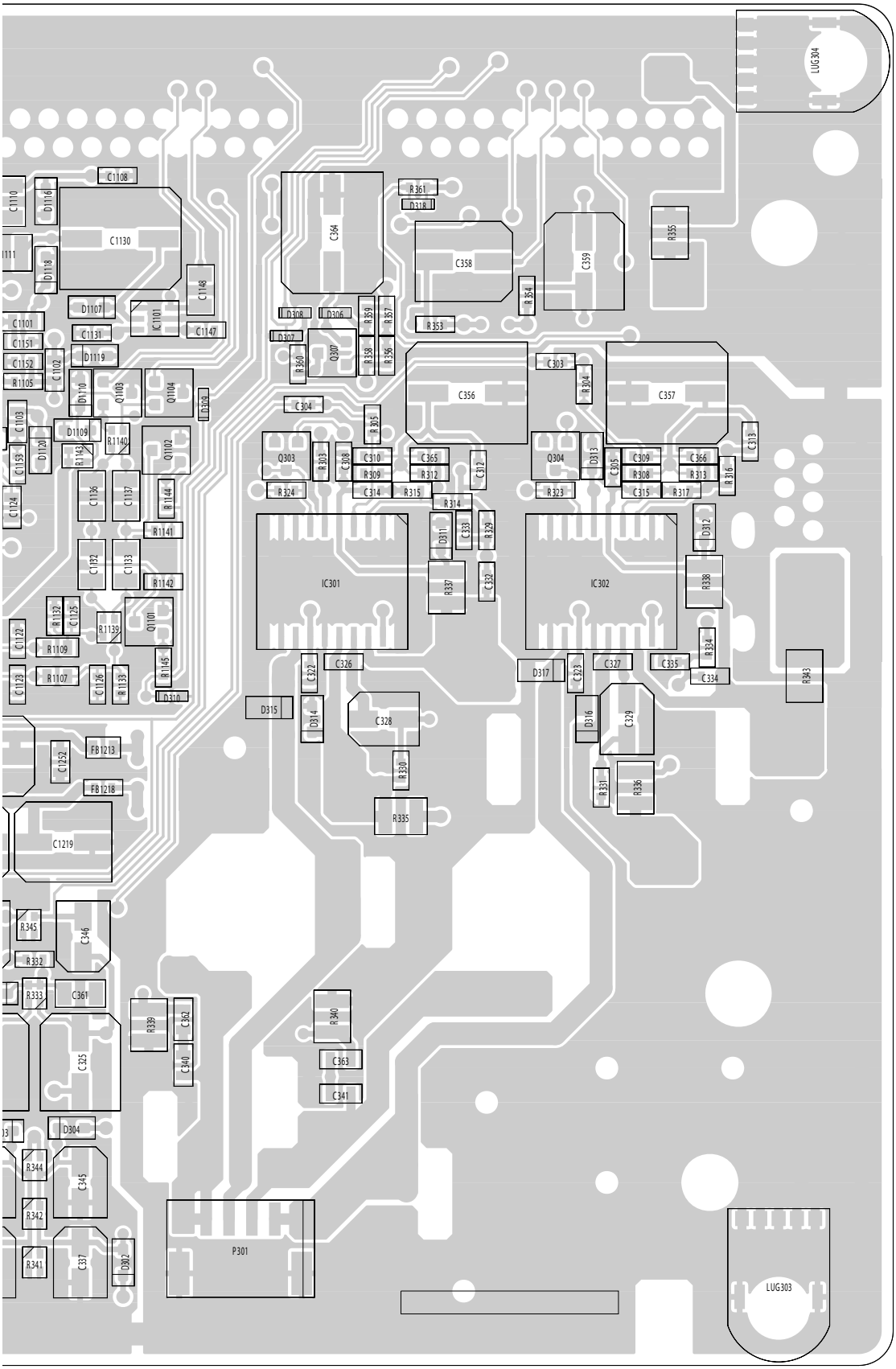
AV Unit (SIDE-A)




P1102
P1201
LUG304
LUG303
SC301
IC301
IC302
IC1101
C364
D318
R355
C359
C358
C357
C356
C1130
D306
D308
D307
Q307
Q303
Q304
D313
D312
R338
D311
R337
D317
D316
C329
R343
C328
C1251
D310
D315
D314
L302
R335
C338
L301
R336
C339
C1219
R345
C347
C346
C330
R340
D305
R333
C324
C325
R339
C343
C342
D303
D304
C345
R344
R342
C331
C344
R341
P301
SP
D302
C336
C337
D1116
D1118
D1107
D1119
Q1103
Q1104
D309
Q1102
R1140
D1124
D1110
D1109
D1120
R1143
Q1101
R1139
R1111
R1117
QPWBFD604WJN3
DUNTKD604WE
Ver A B C D E F G H
11
12
13
14
15
16
17
18
19

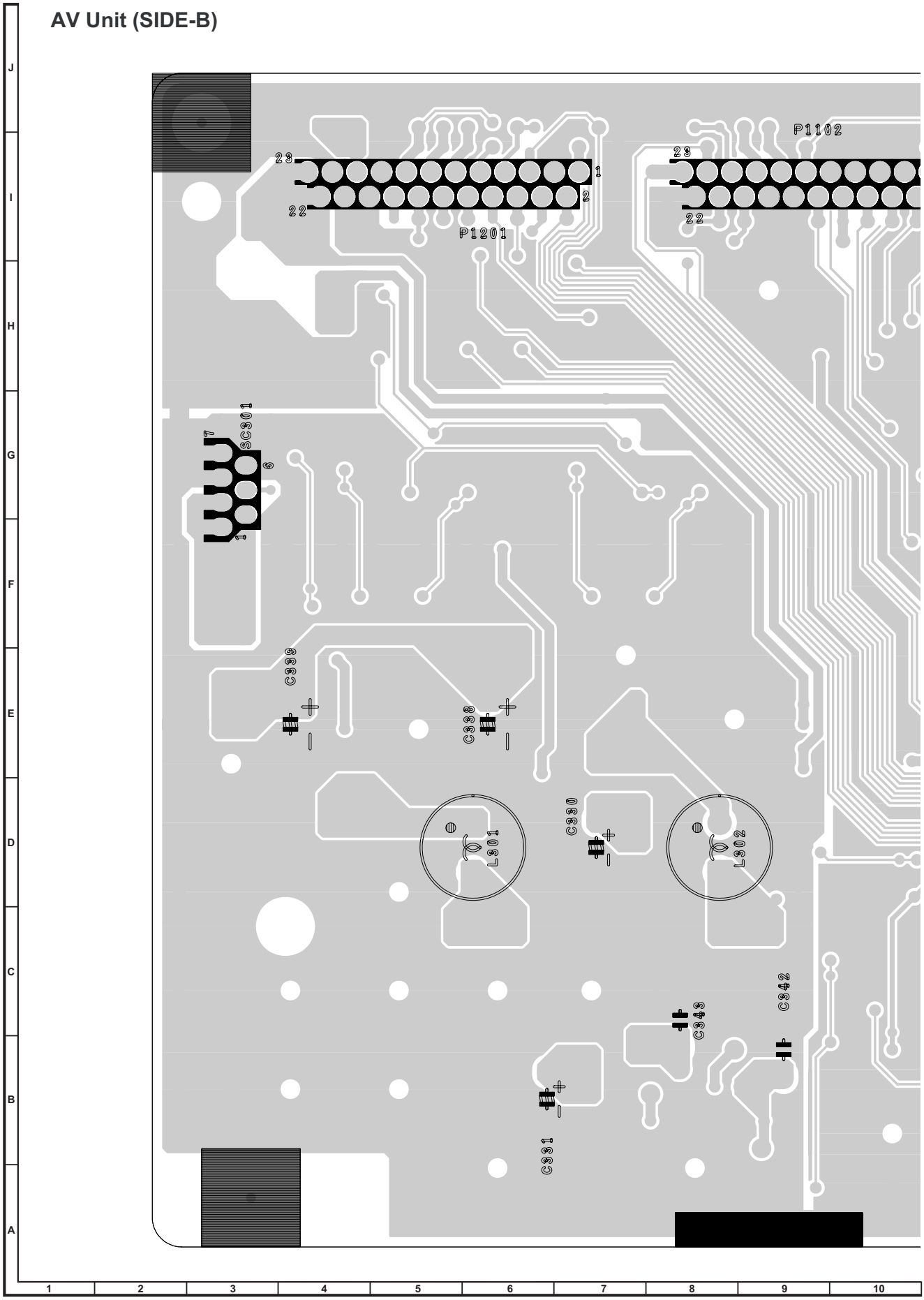
AV Unit (Chip SIDE-A)

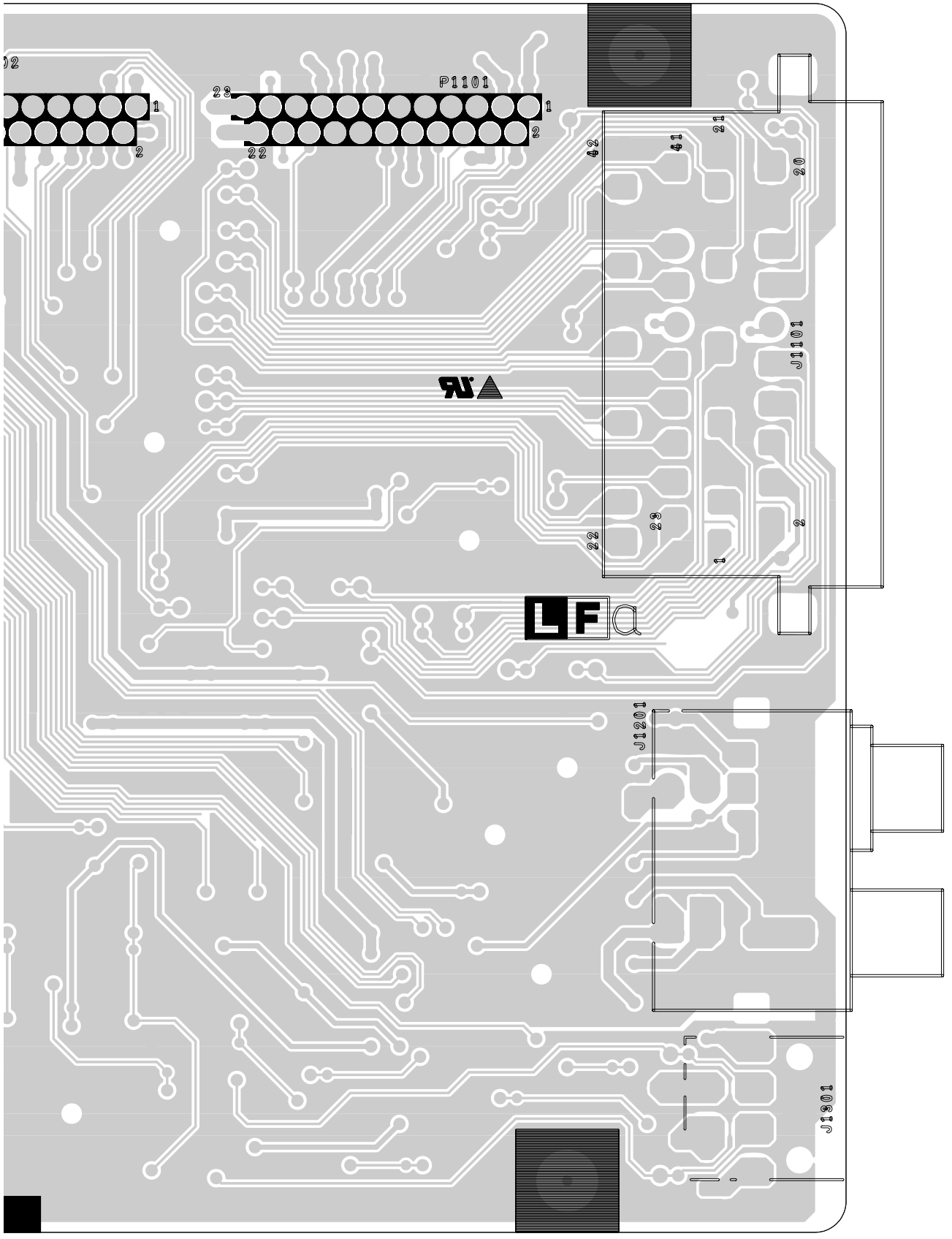




11	12	13	14	15	16	17	18	19

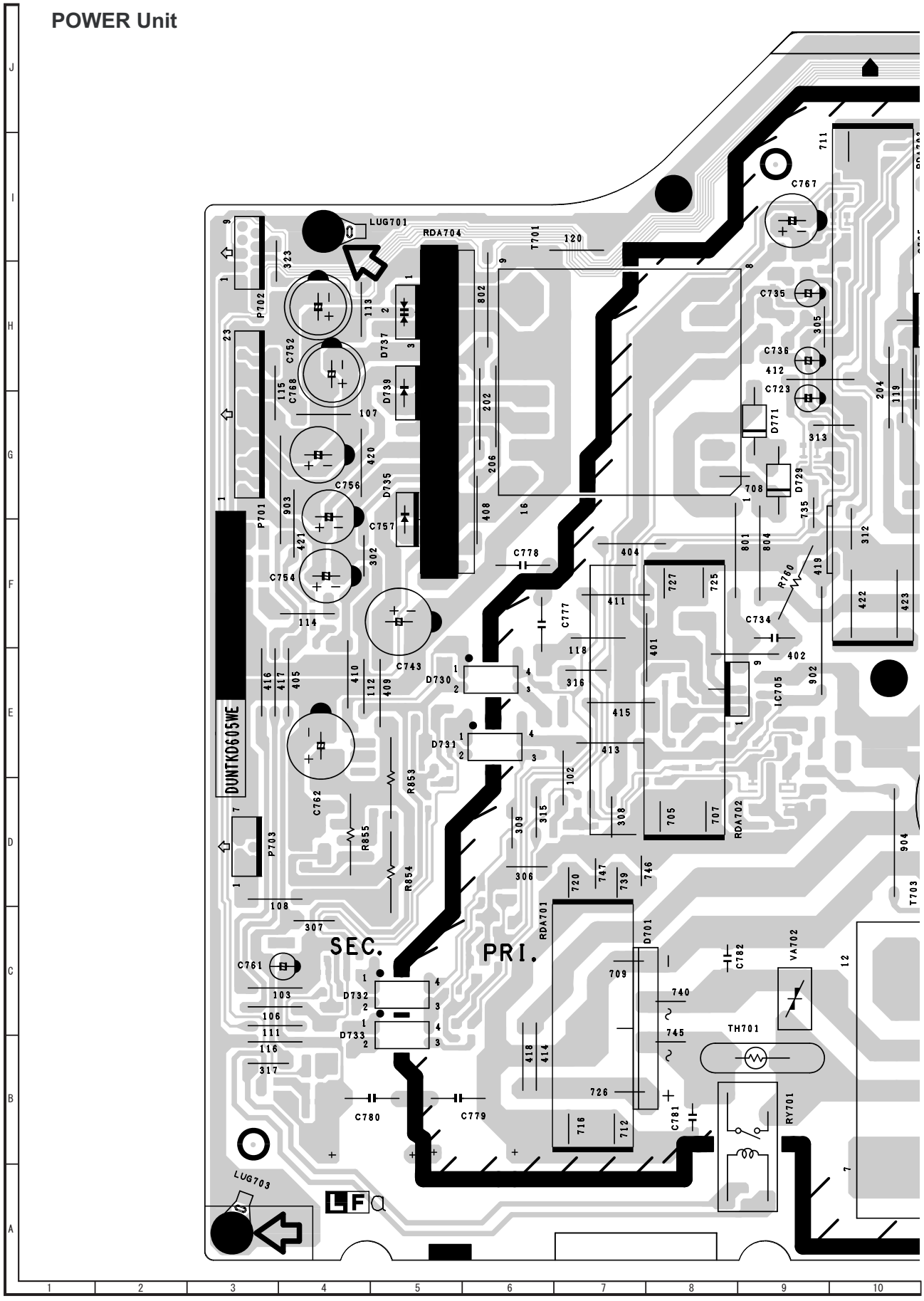
AV Unit (SIDE-B)

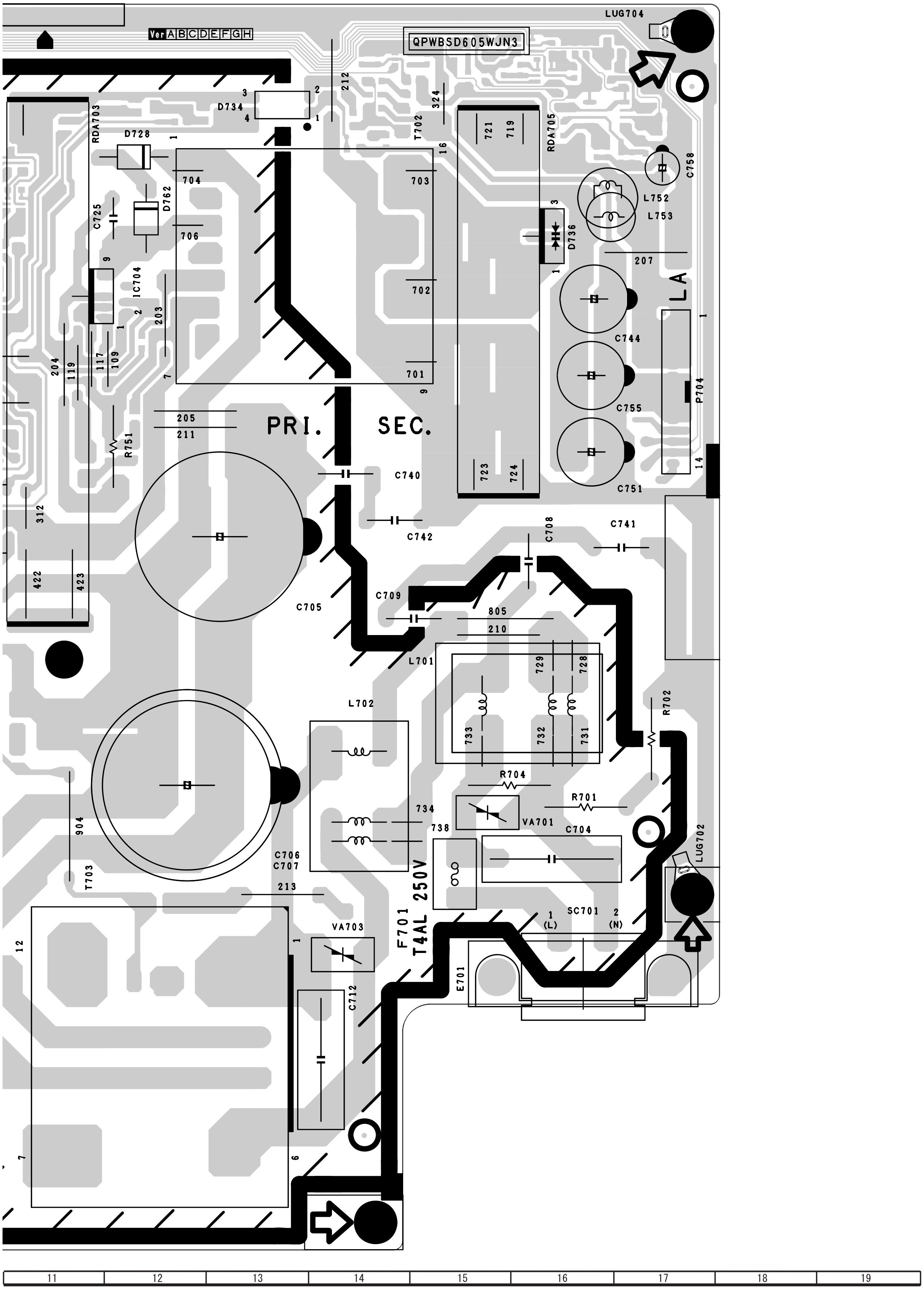



P1101
J1101
J1201
J1601

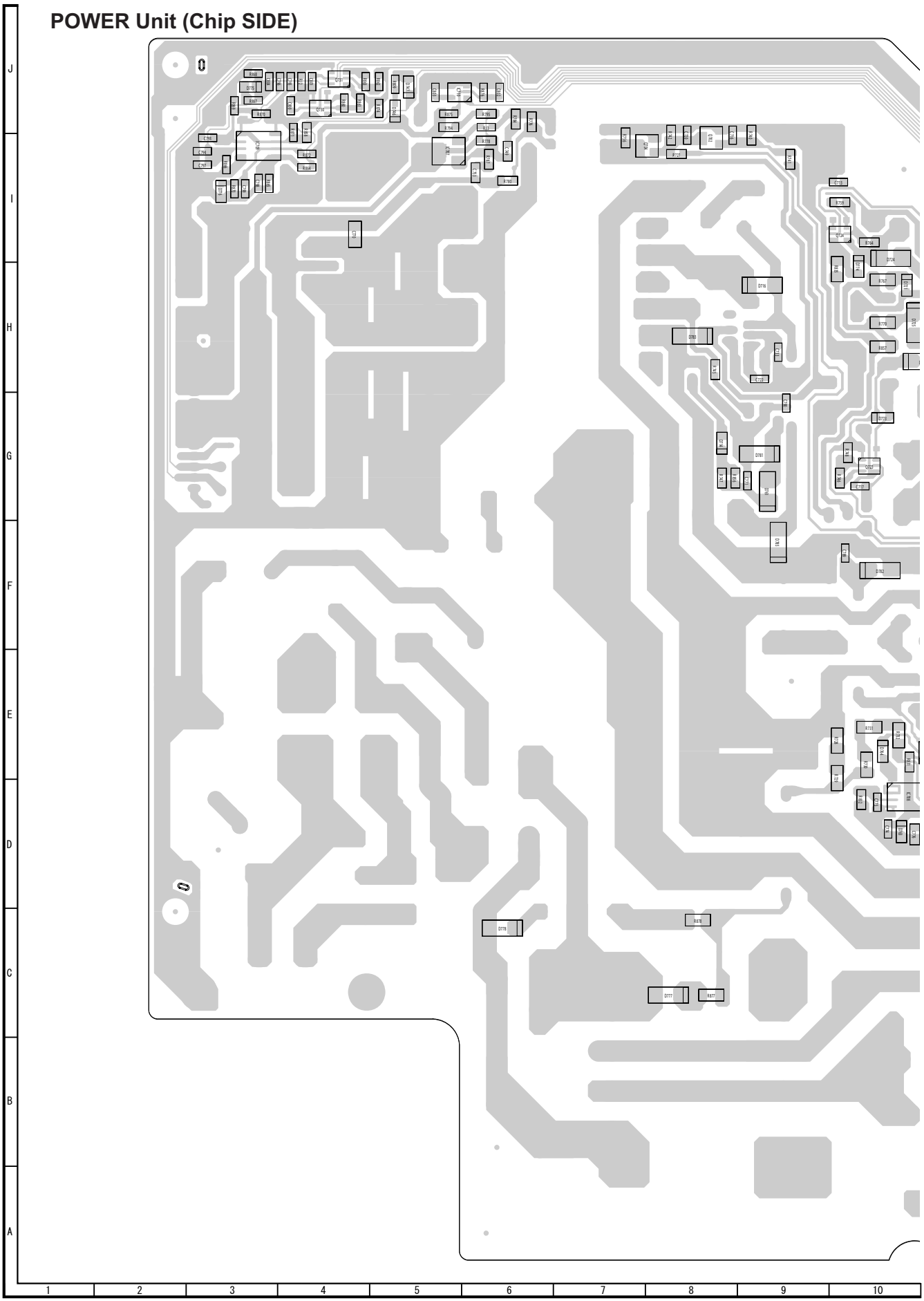
[4] POWER UNIT PRINTED WIRING BOARD

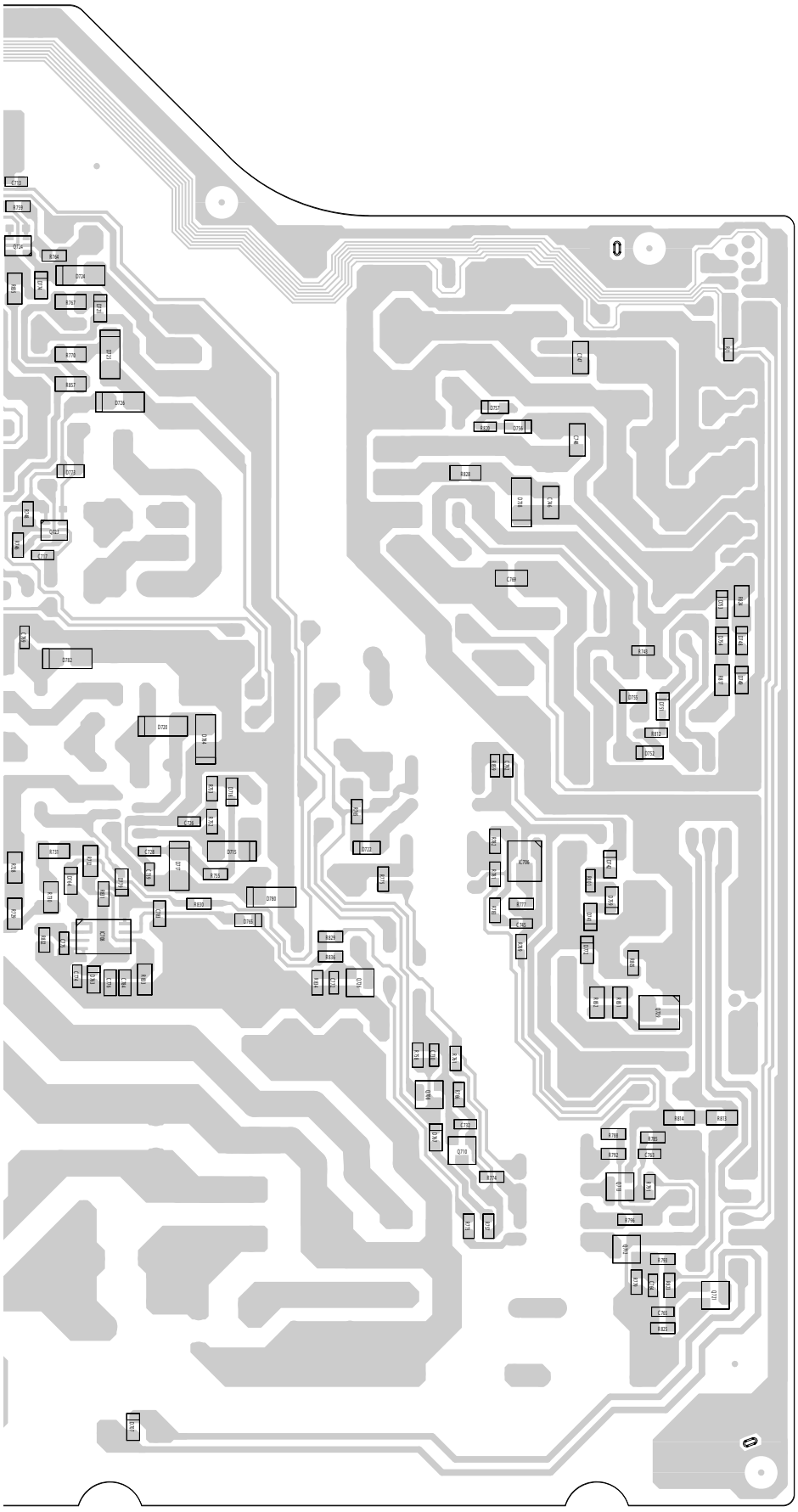
POWER Unit




QPWBSD605WJN3
Ver A B C D E F G H
LUG704
D734
212
324
T702
RDA703
RDA705
D728
D762
C725
IC704
C758
L752
L753
D736
207
LA
C744
C755
C751
P704
PRI.
SEC.
205
211
R751
C740
C742
C708
C741
C705
C709
805
210
L701
312
422
423
L702
R702
R704
R701
VA701
C704
734
738
904
T703
C706
C707
213
F701
T4AL 250V
SC701
1 (L)
2 (N)
LUG702
VA703
C712
E701
11
12
13
14
15
16
17
18
19

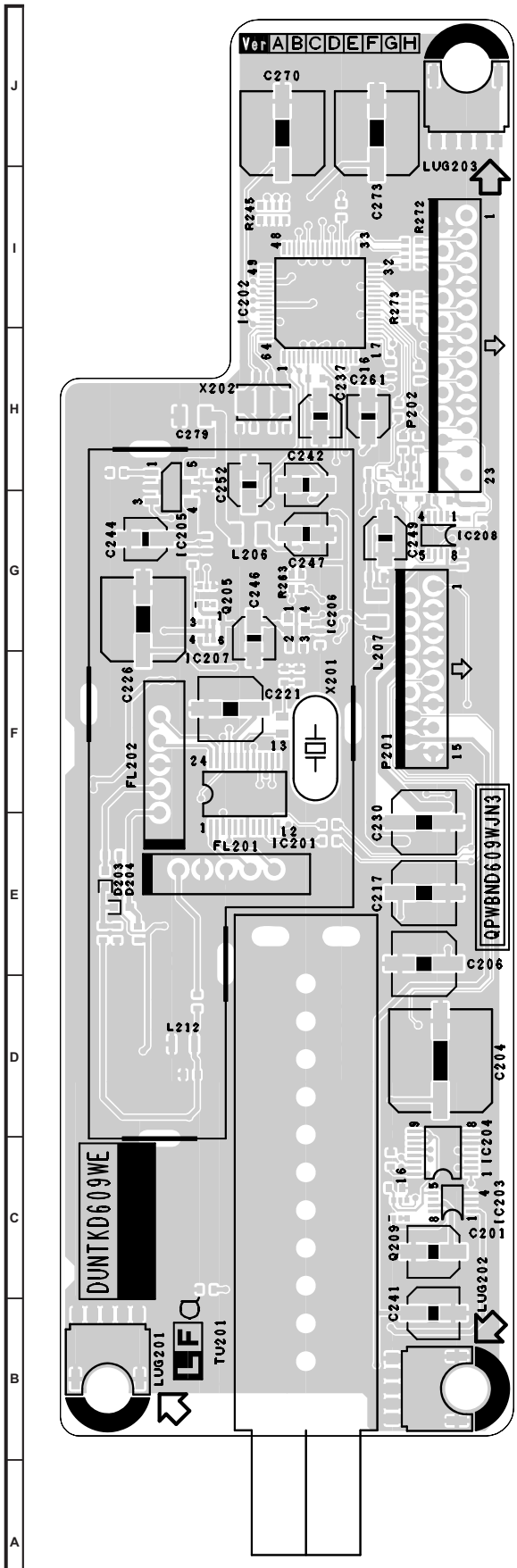
POWER Unit (Chip SIDE)



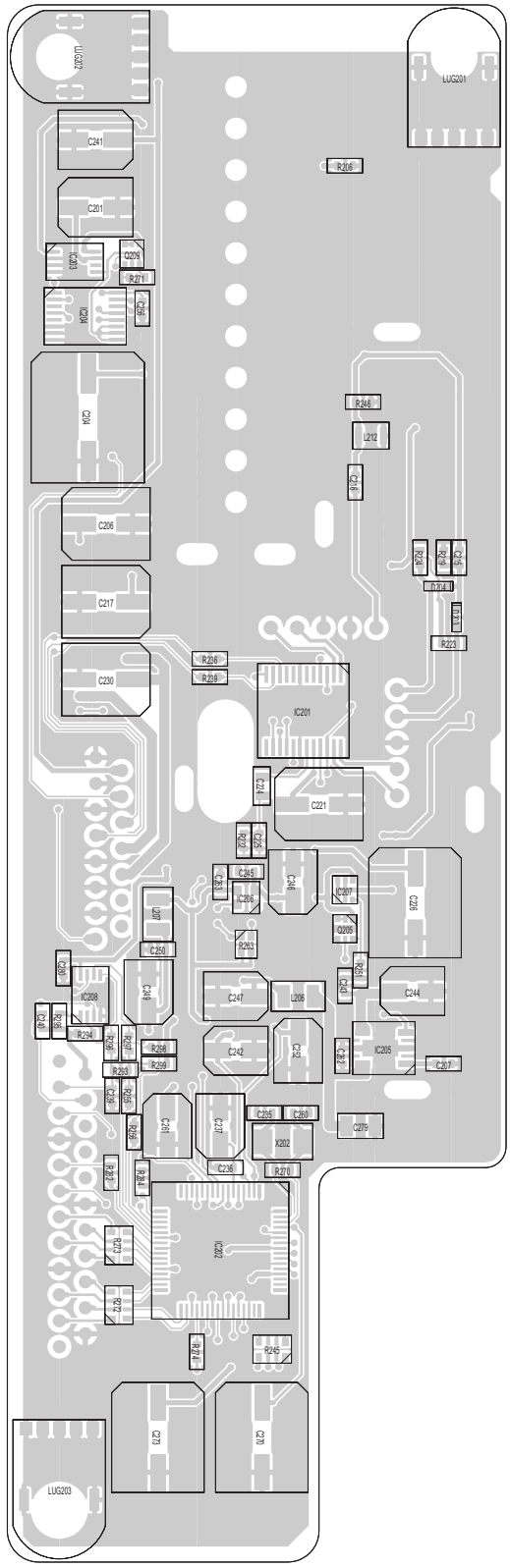


11	12	13	14	15	16	17	18	19

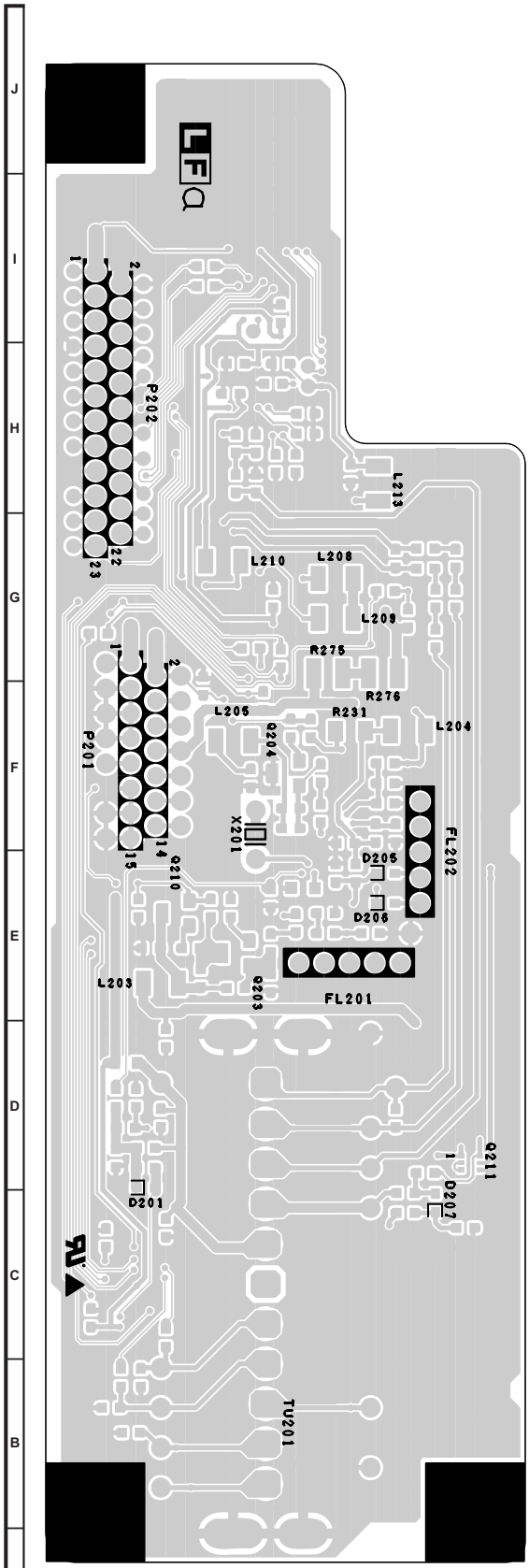
[5] D-TUNER UNIT PRINTED WIRING BOARD



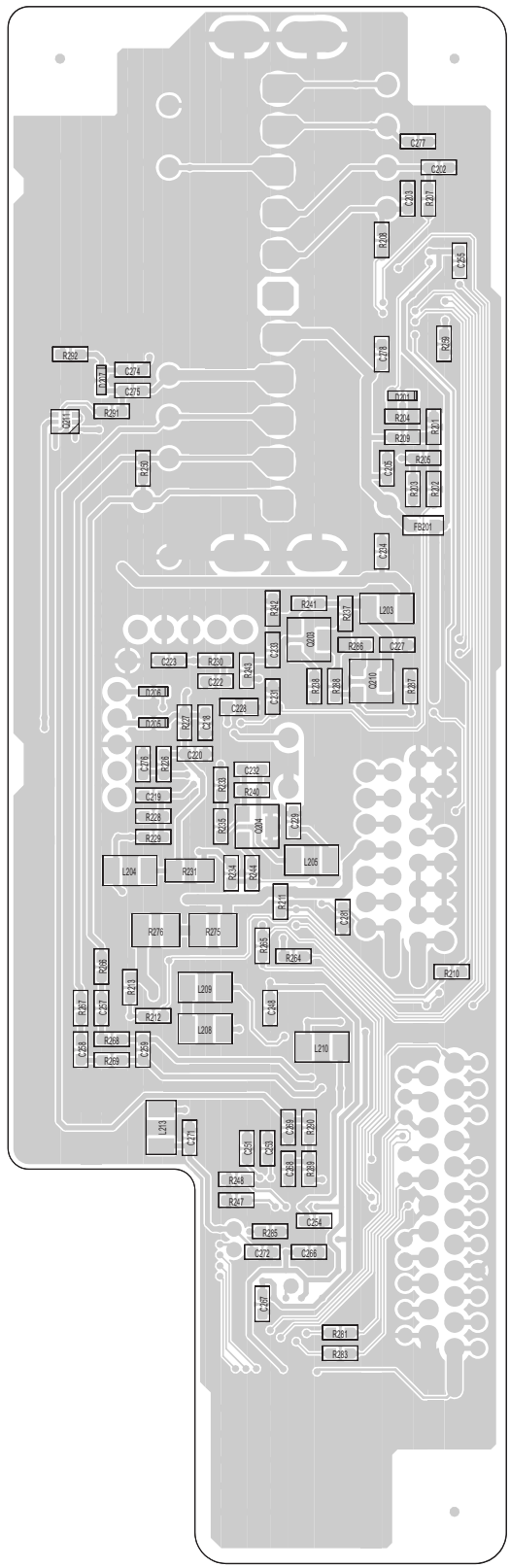
D-TUNER Unit (SIDE-A)



D-TUNER Unit (Chip SIDE-A)



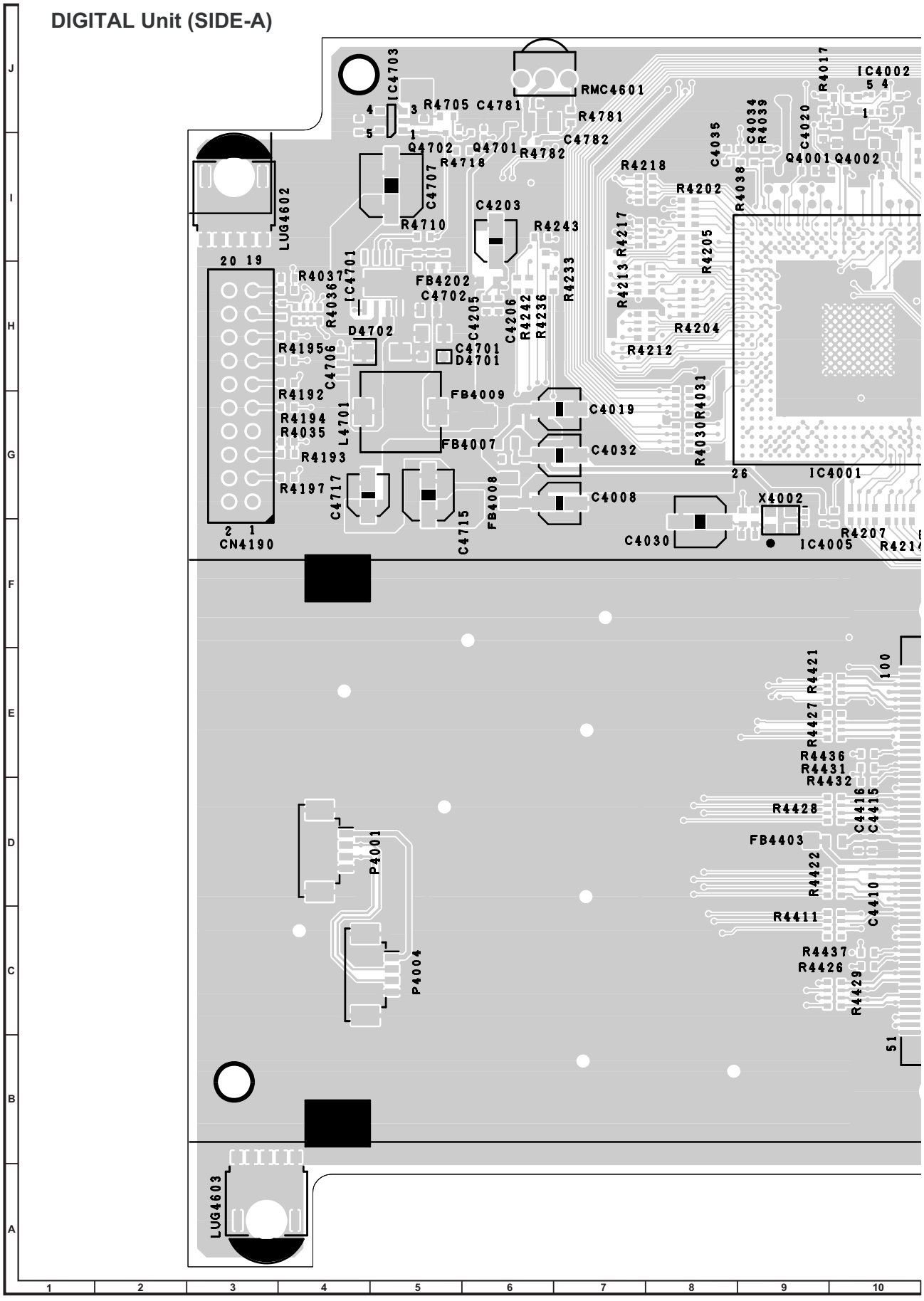
D-TUNER Unit (SIDE-B)

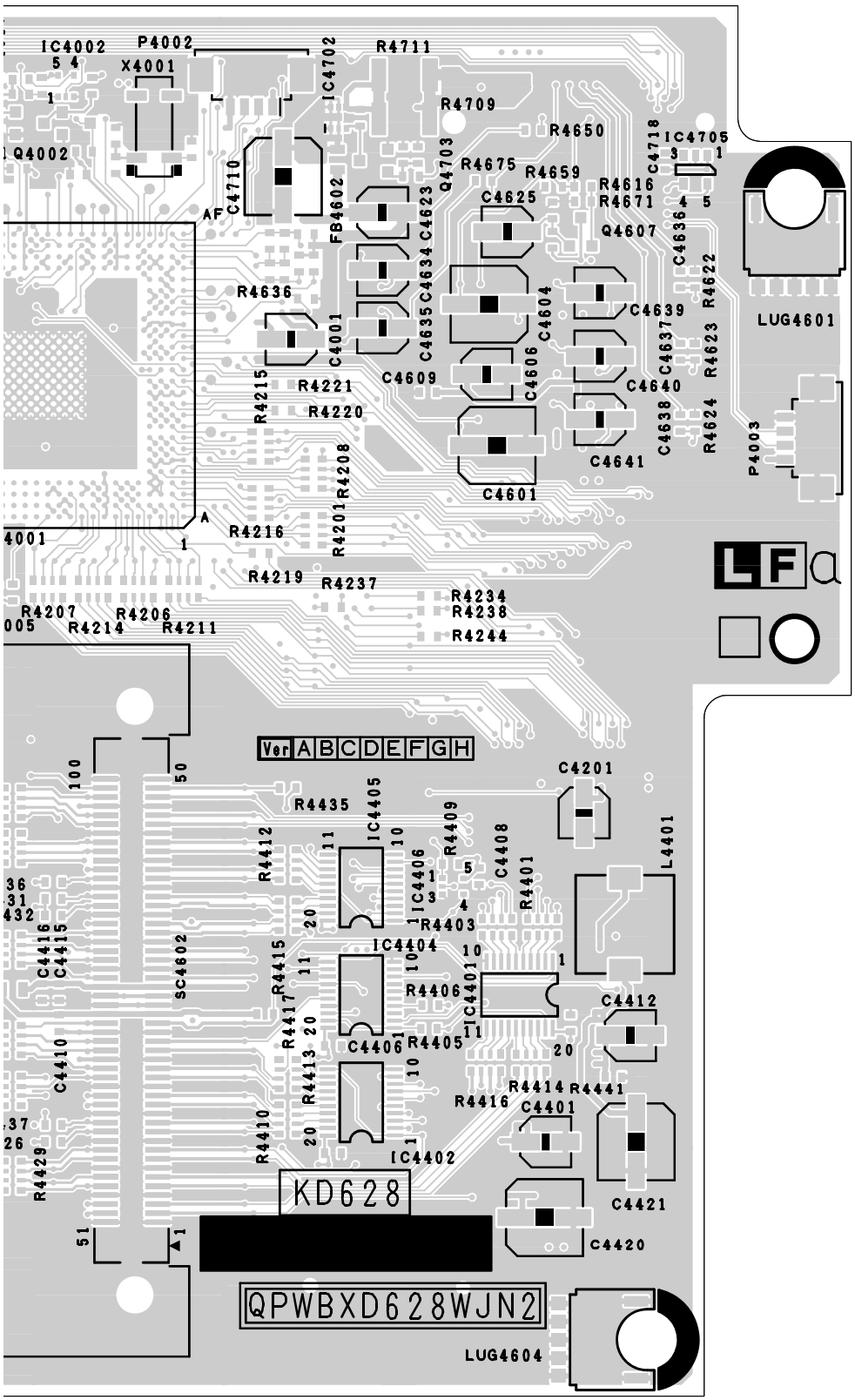


D-TUNER Unit (Chip SIDE-B)

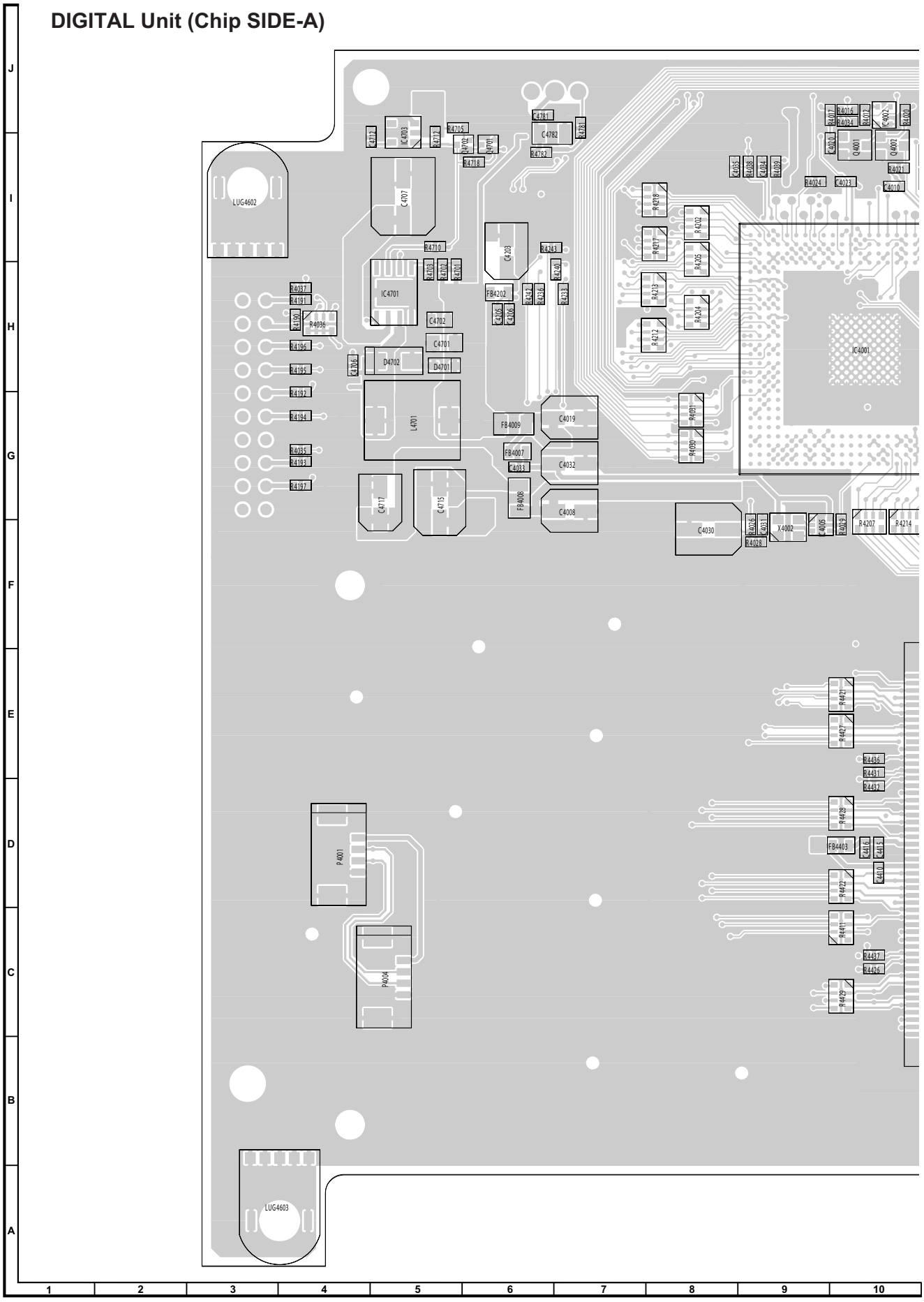
[6] DIGITAL UNIT PRINTED WIRING BOARD

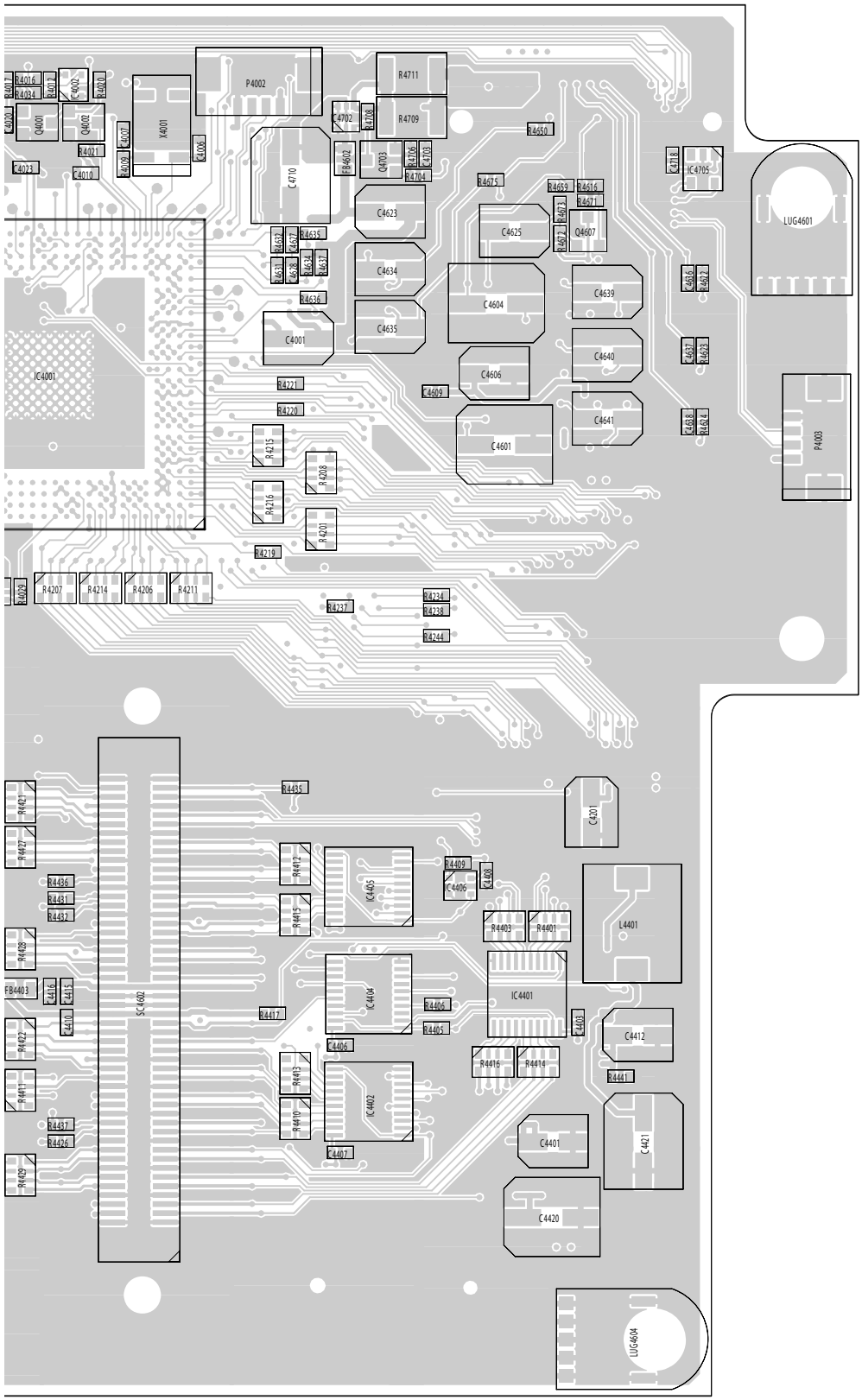
DIGITAL Unit (SIDE-A)




IC4002
P4002
X4001
IC4702
R4711
R4709
R4650
IC4705
Q4002
C4710
AF
FB4602
Q4703
R4675
R4659
C4625
R4616
R4671
Q4607
C4636
C4718
R4622
LUG4601
R4636
C4001
C4634
C4635
C4623
C4604
C4639
C4637
R4623
C4609
C4606
C4640
R4624
C4638
P4003
R4215
R4221
R4220
C4641
R4208
R4201
C4601
R4216
R4219
R4237
R4234
R4238
R4244
R4207
R4206
R4214
R4211
Ver A B C D E F G H
C4201
R4435
IC4405
R4409
C4408
L4401
R4412
IC4406
R4401
R4403
IC4404
SC4602
C4416
C4415
R4415
R4417
R4406
IC4401
C4412
C4406
R4405
C4410
R4413
R4414
R4441
R4416
C4401
R4410
IC4402
R4429
KD628
C4421
C4420
QPWBXD628WJN2
LUG4604

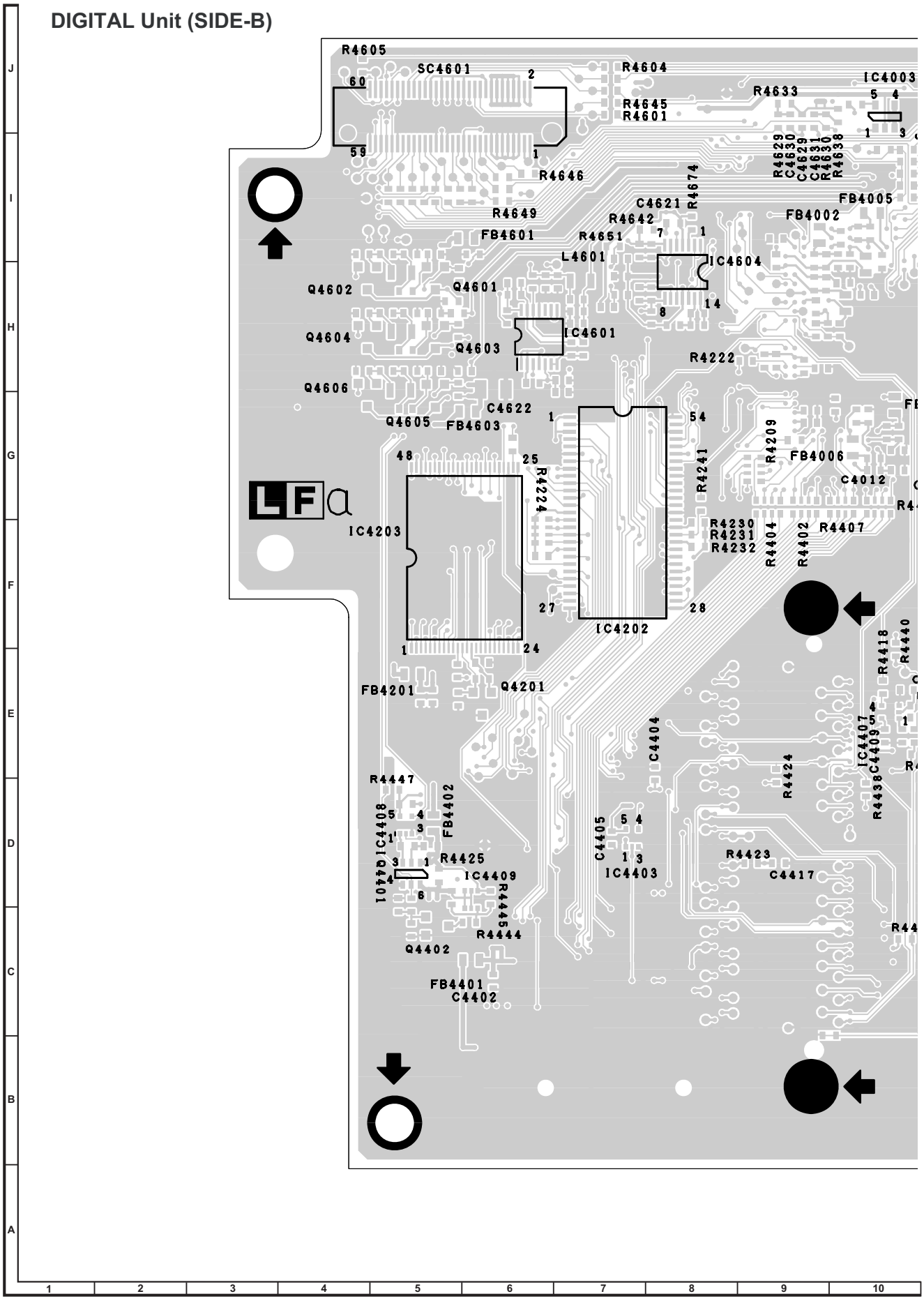
DIGITAL Unit (Chip SIDE-A)

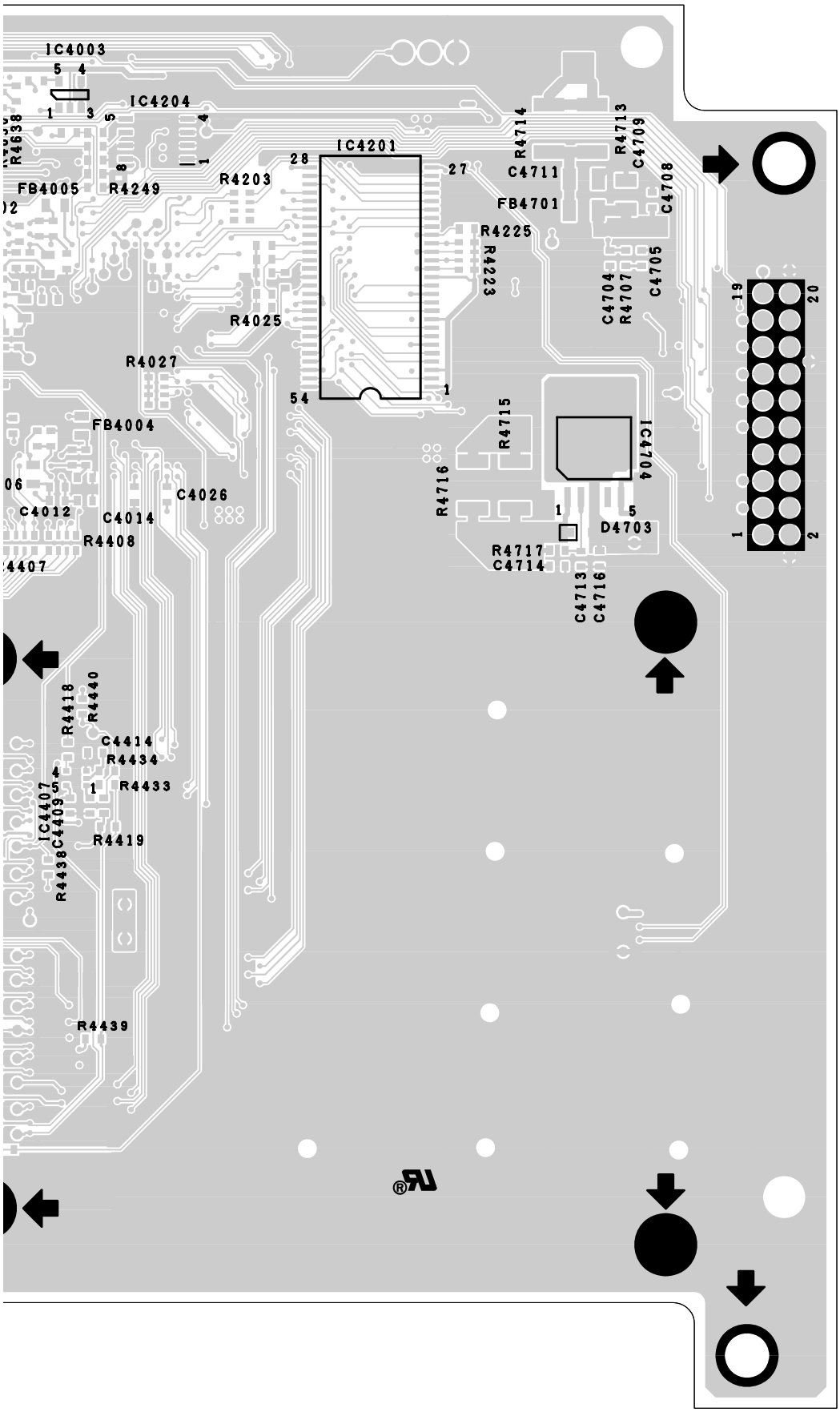




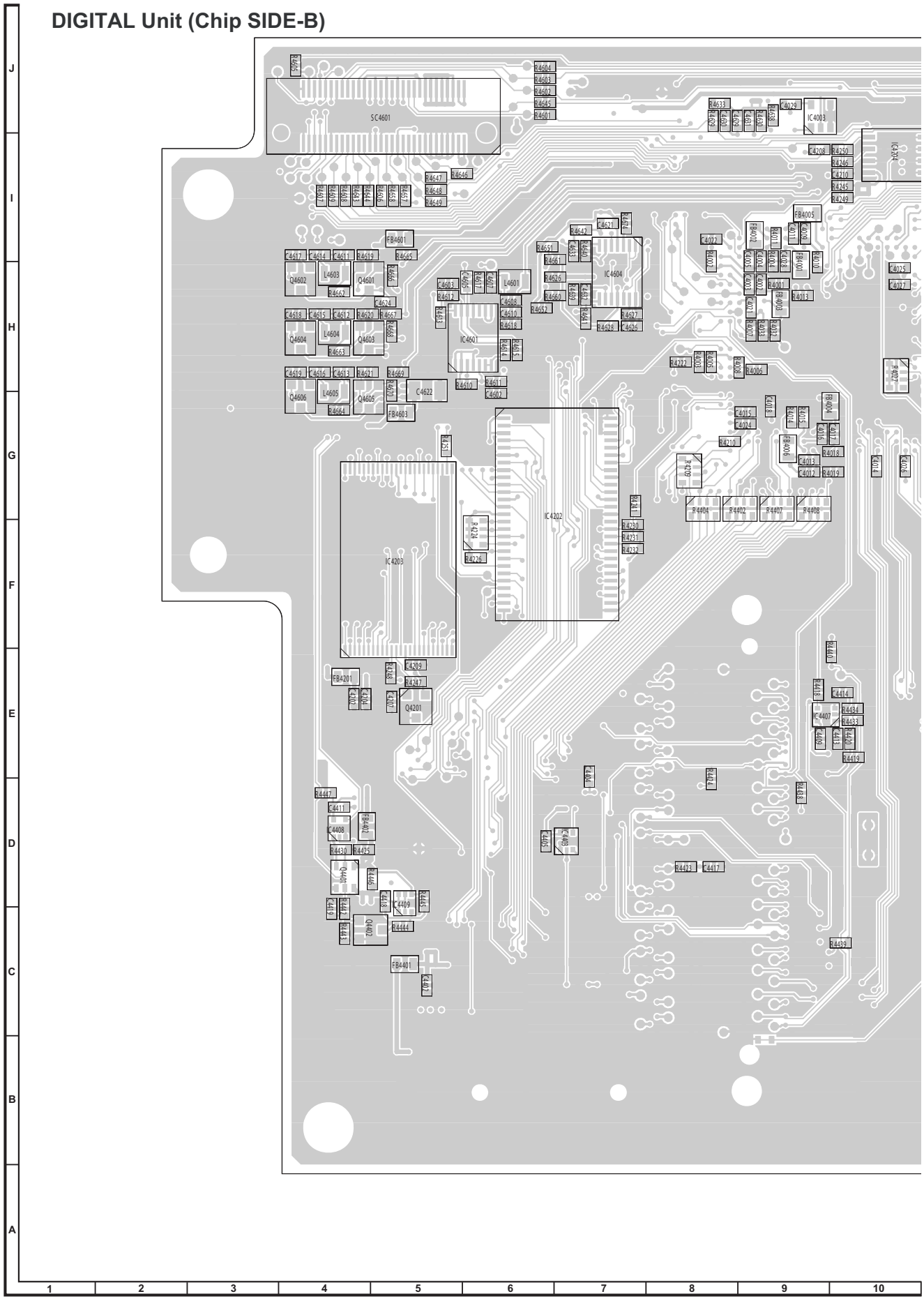
11	12	13	14	15	16	17	18	19

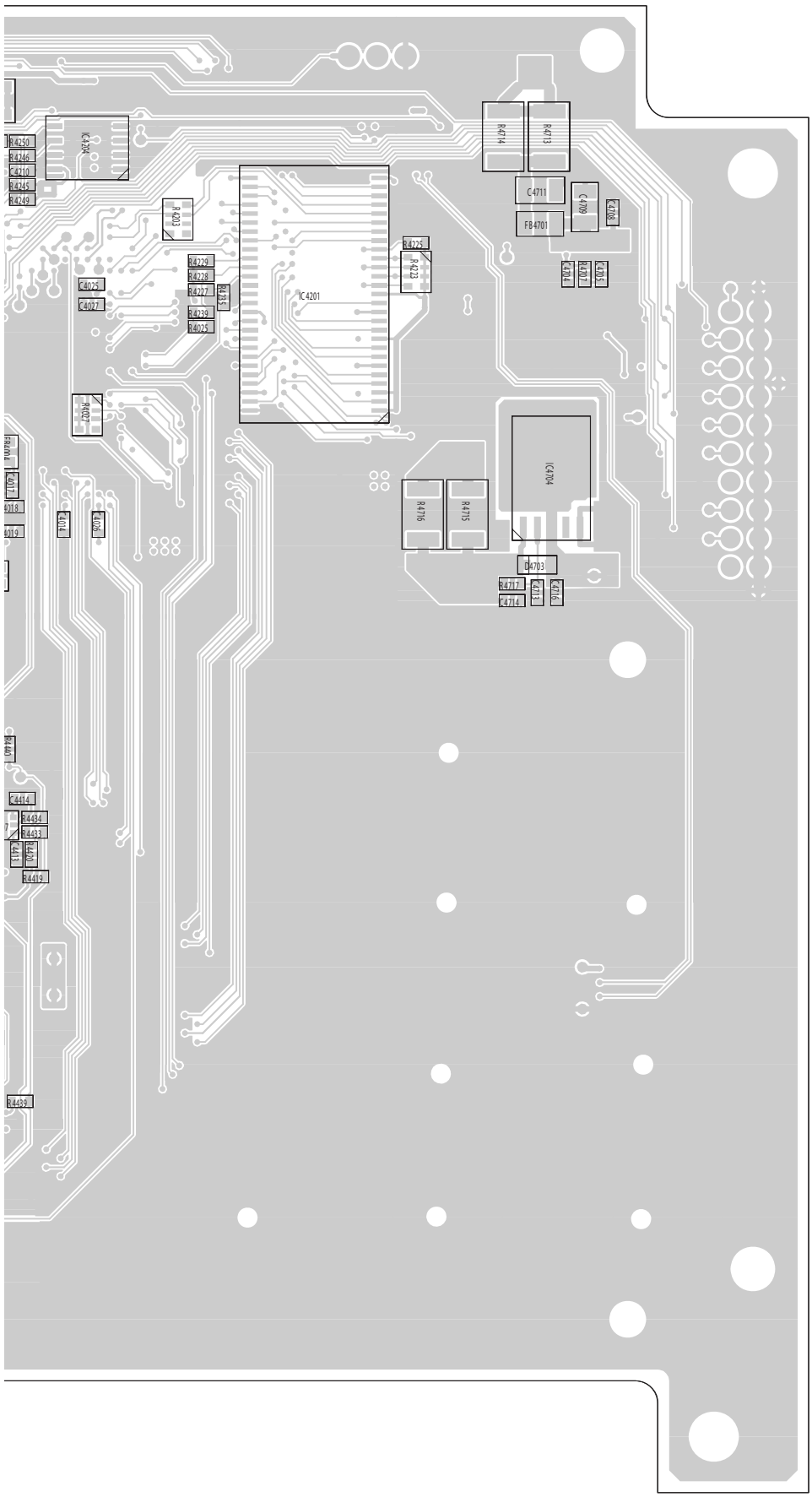
DIGITAL Unit (SIDE-B)




IC4003
IC4204
IC4201
R4638
FB4005
R4249
R4203
R4714
R4713
C4709
C4711
C4708
FB4701
R4225
R4223
C4704
R4707
C4705
R4025
R4027
FB4004
R4715
IC4704
R4716
C4012
C4014
C4026
R4408
D4703
R4717
C4714
C4713
C4716
R4418
R4440
C4414
R4434
R4433
IC4407
C4409
R4438
R4419
R4439

DIGITAL Unit (Chip SIDE-B)




IC4204
R4250
R4246
C4210
R4245
R4249
R4203
R4229
R4228
R4227
R4239
R4025
C4025
C4027
IC4201
R4225
R4223
R4027
C4017
C4018
C4019
C4014
C4035
R4414
R4434
R4433
C4413
C4410
R4419
R4439
R4714
R4713
C4711
FB4701
C4709
C4702
C4704
C4705
R4707
C4704
R4716
R4715
IC4704
D4703
R4717
C4714
C4713
C4716

— MEMO —

CHAPTER 8. SCHEMATIC DIAGRAM

[1] DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. The voltages at test points are measured on exclusive AC adaptor and the stable supply voltage of AC 230V.

   Signals are fed by a colour bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted.

   (K=kΩ=1000 Ω, M=MΩ).

2. All resistors are ± 5%, unless otherwise noted.

   (K= ± 10%, F= ± 1%, D= ± 0.5%)

3. All resistors are 1/16W, unless otherwise noted.

CAPACITOR

1. All capacitors are μF, unless otherwise noted.

   (P=pF=μμF).

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:

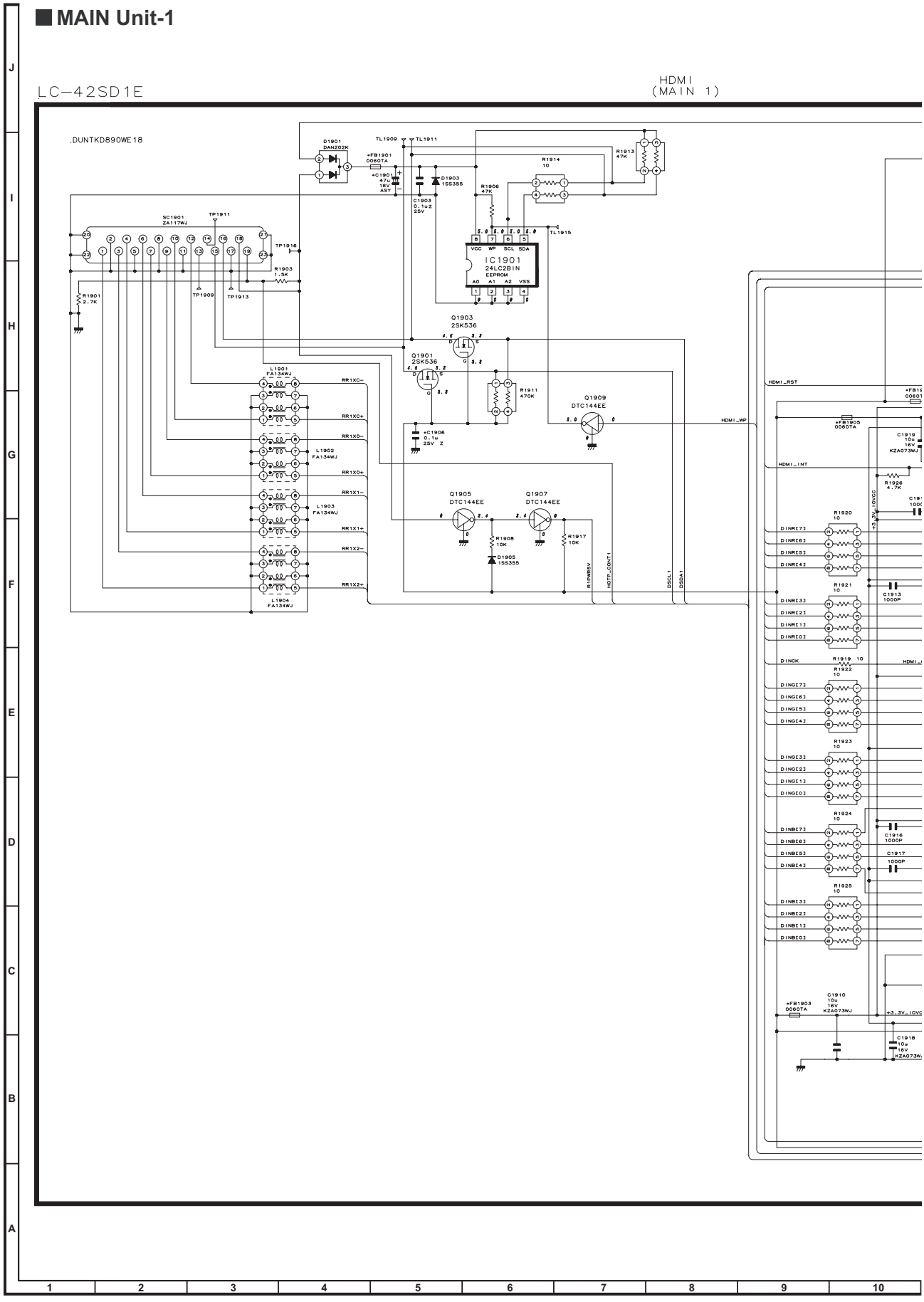
1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

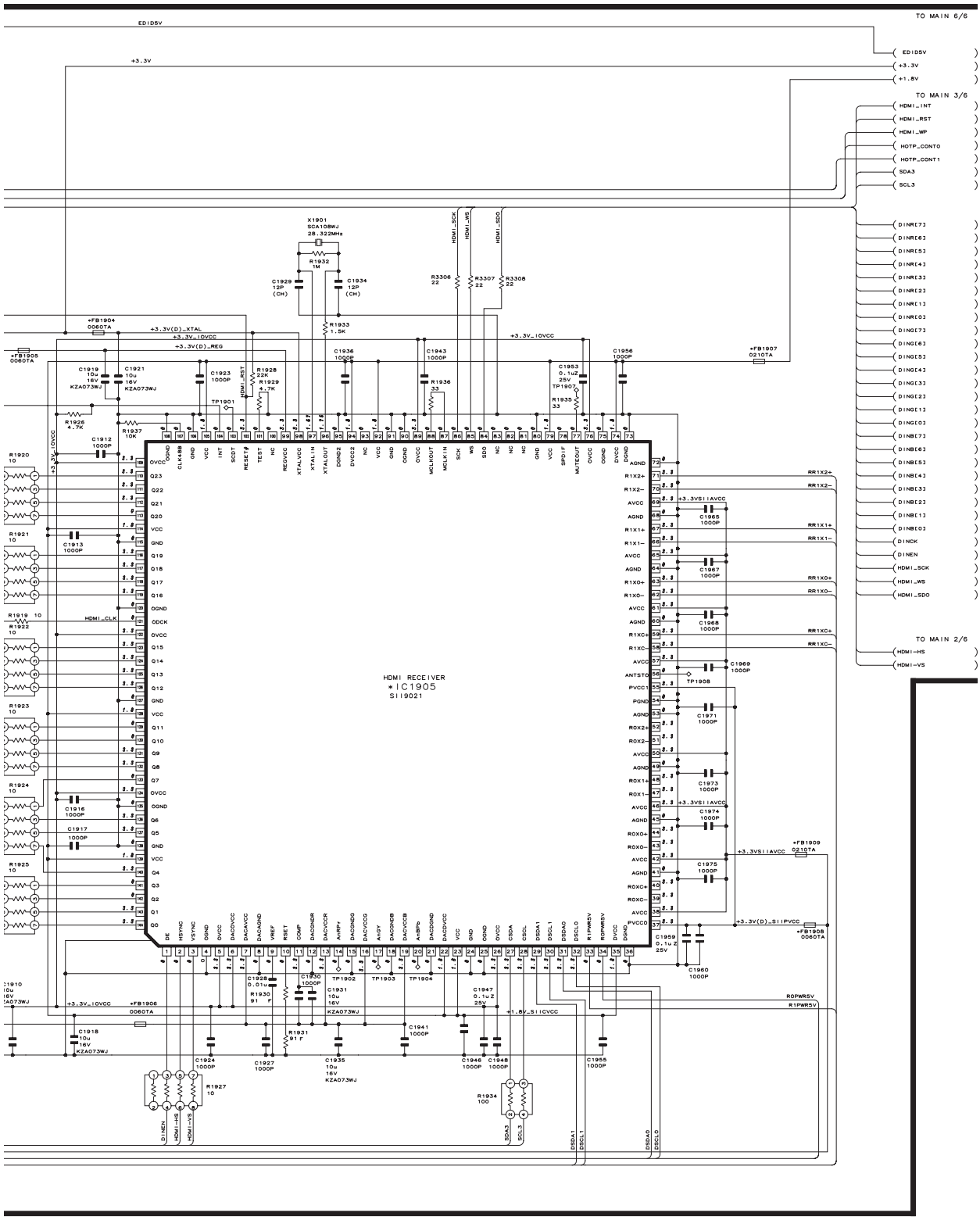
IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH " ⚠ " ( ) 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.

[2] SCHEMATIC DIAGRAM

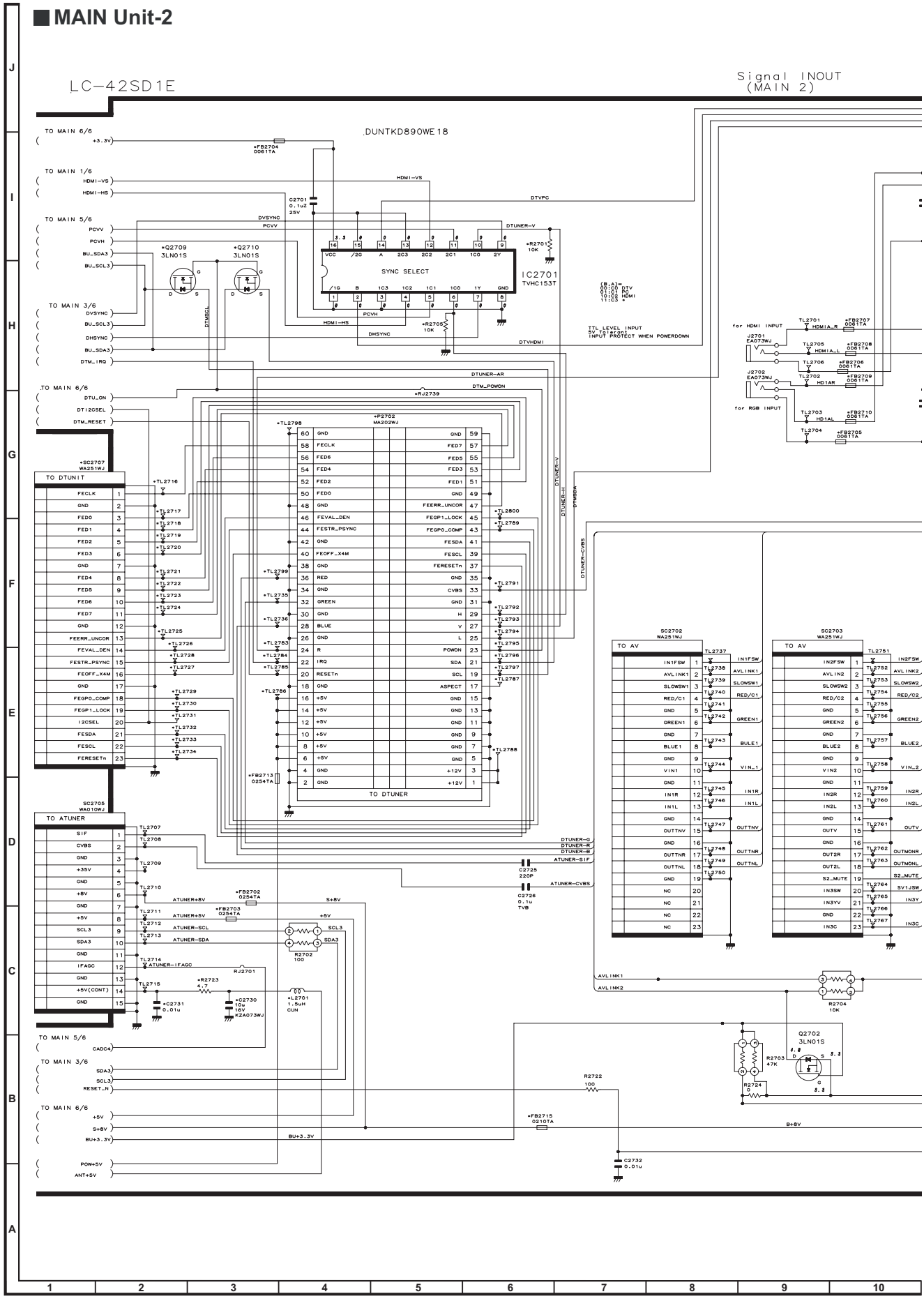
■ MAIN Unit-1



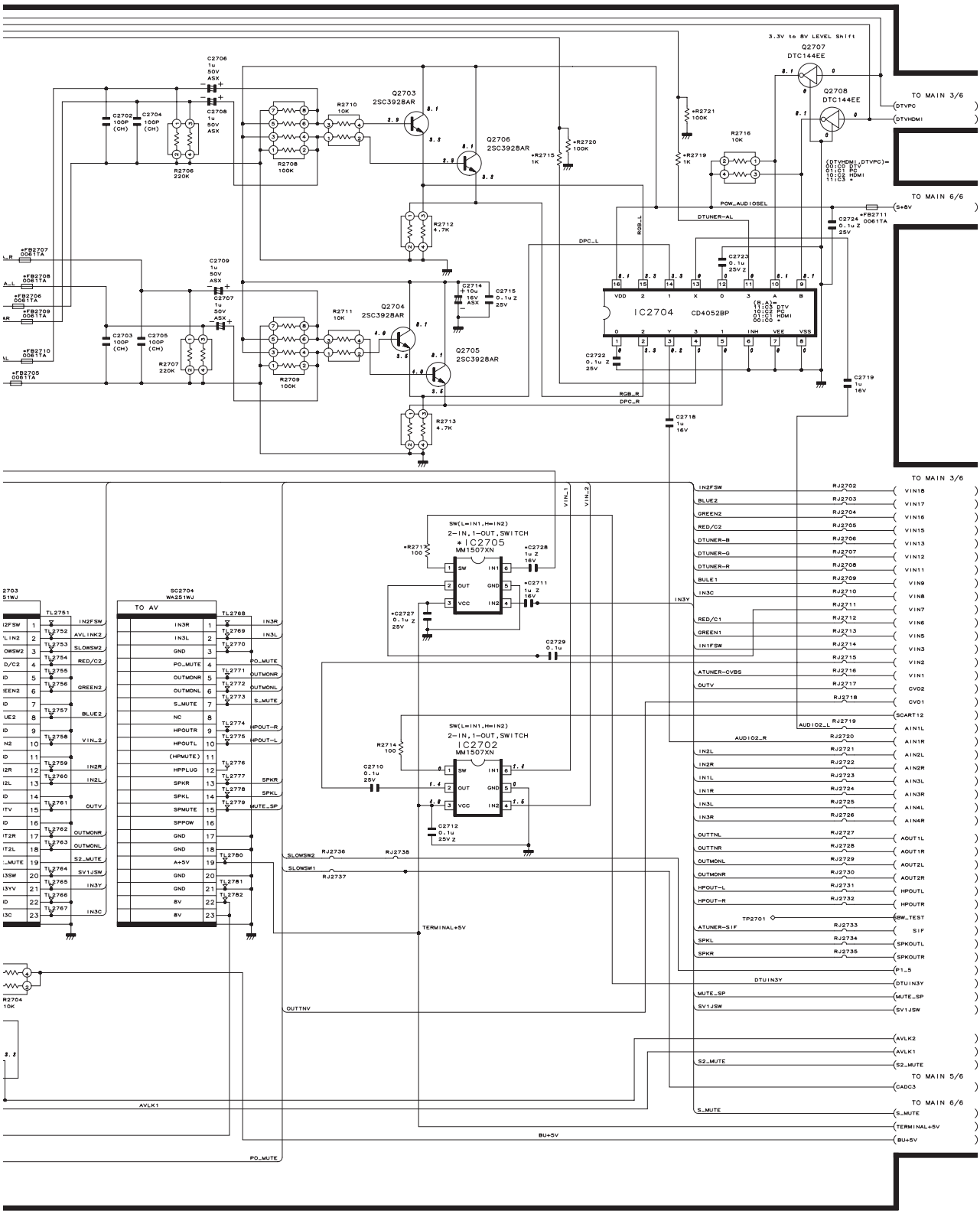


11	12	13	14	15	16	17	18	19

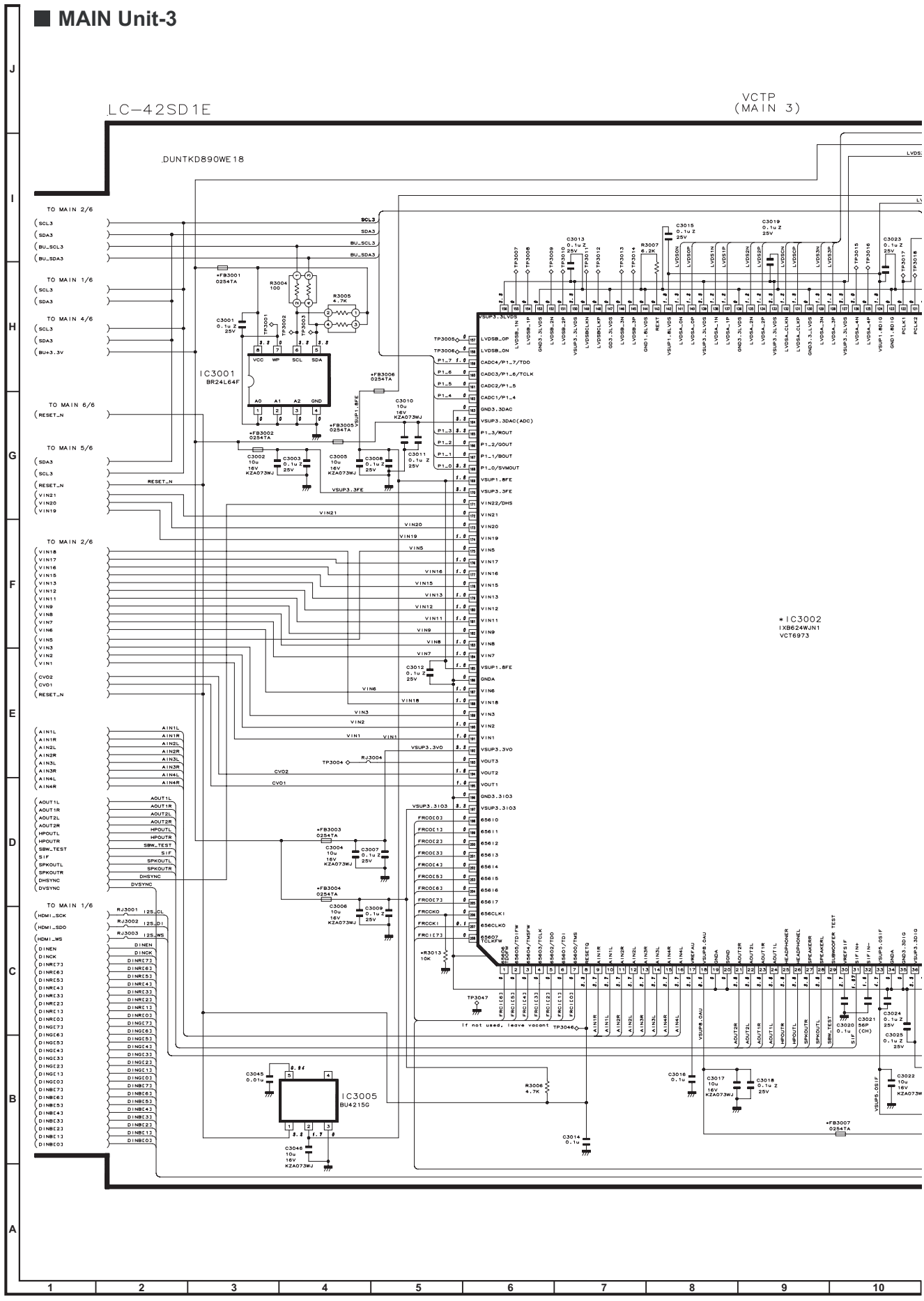
■ MAIN Unit-2

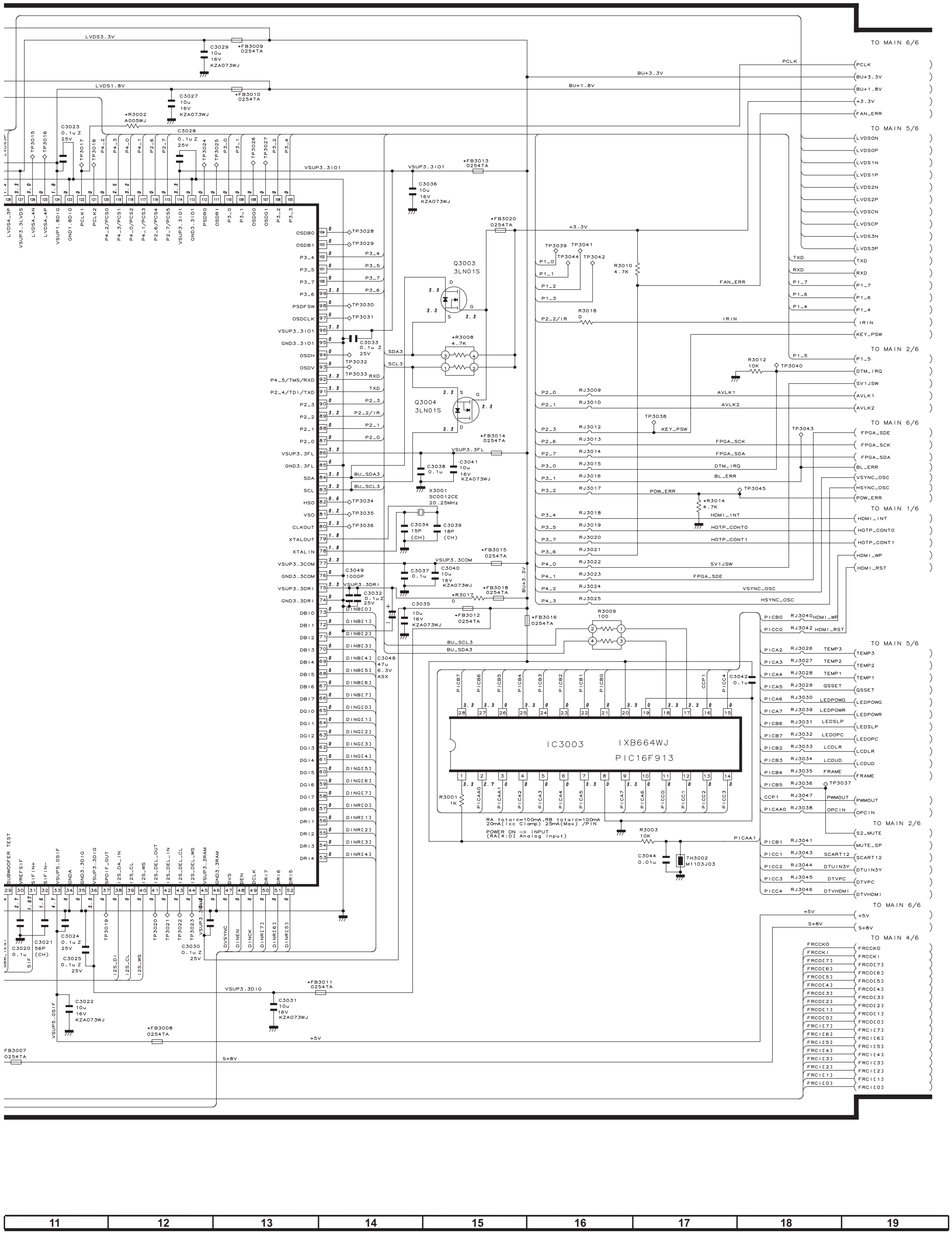

LC-42SD1E
Signal INOUT (MAIN 2)
.DUNTKD890WE18
SYNC SELECT
IC2701 TVHC153T
TO DTUNIT
TO DTUNER
TO ATUNER
TO AV
TO MAIN 6/6
TO MAIN 1/6
TO MAIN 5/6
TO MAIN 3/6
for HDMI INPUT
for RGB INPUT
TTL LEVEL INPUT 5V TOLERANT INPUT PROTECT WHEN POWERDOWN

JT

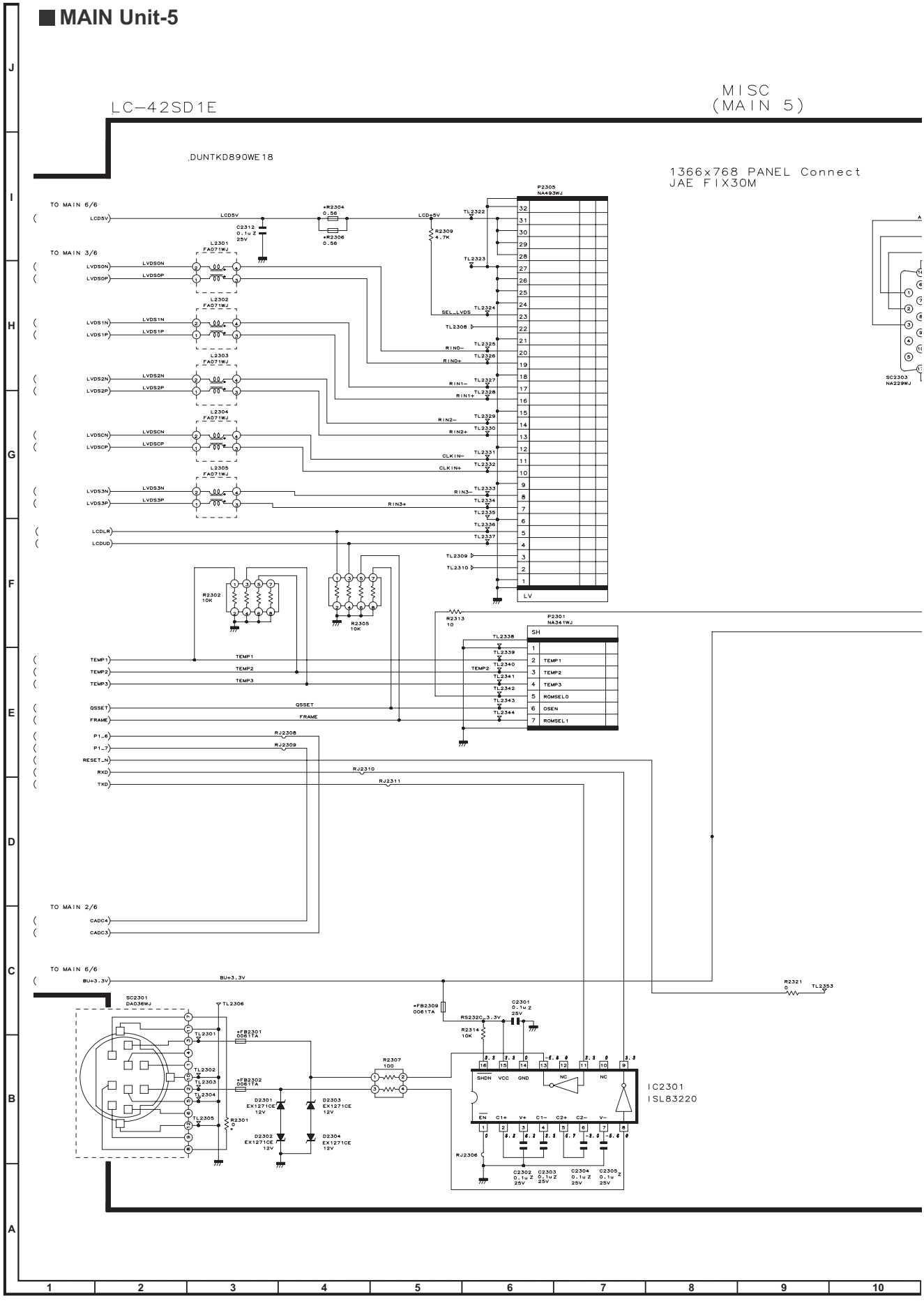

3.3V to 8V LEVEL Shift
Q2707
DTC144EE
Q2708
DTC144EE
TO MAIN 3/6
TO MAIN 6/6
TO MAIN 5/6
IC2704
CD4052BP
Q2703
2SC3928AR
Q2704
2SC3928AR
Q2705
2SC3928AR
Q2706
2SC3928AR
IC2705
MM1507XN
IC2702
MM1507XN
2-IN,1-OUT,SWITCH
SC2704
WA251WJ
TO AV
POW_AUDIOSEL
DTUNER-AL
DPC_L
DPC_R
RGB_L
RGB_R
VIN_1
VIN_2
SLOWSW1
SLOWSW2
OUTTNV
AVLK1
PO_MUTE
BU+5V
TERMINAL+5V
DTUIN3Y
TP2701

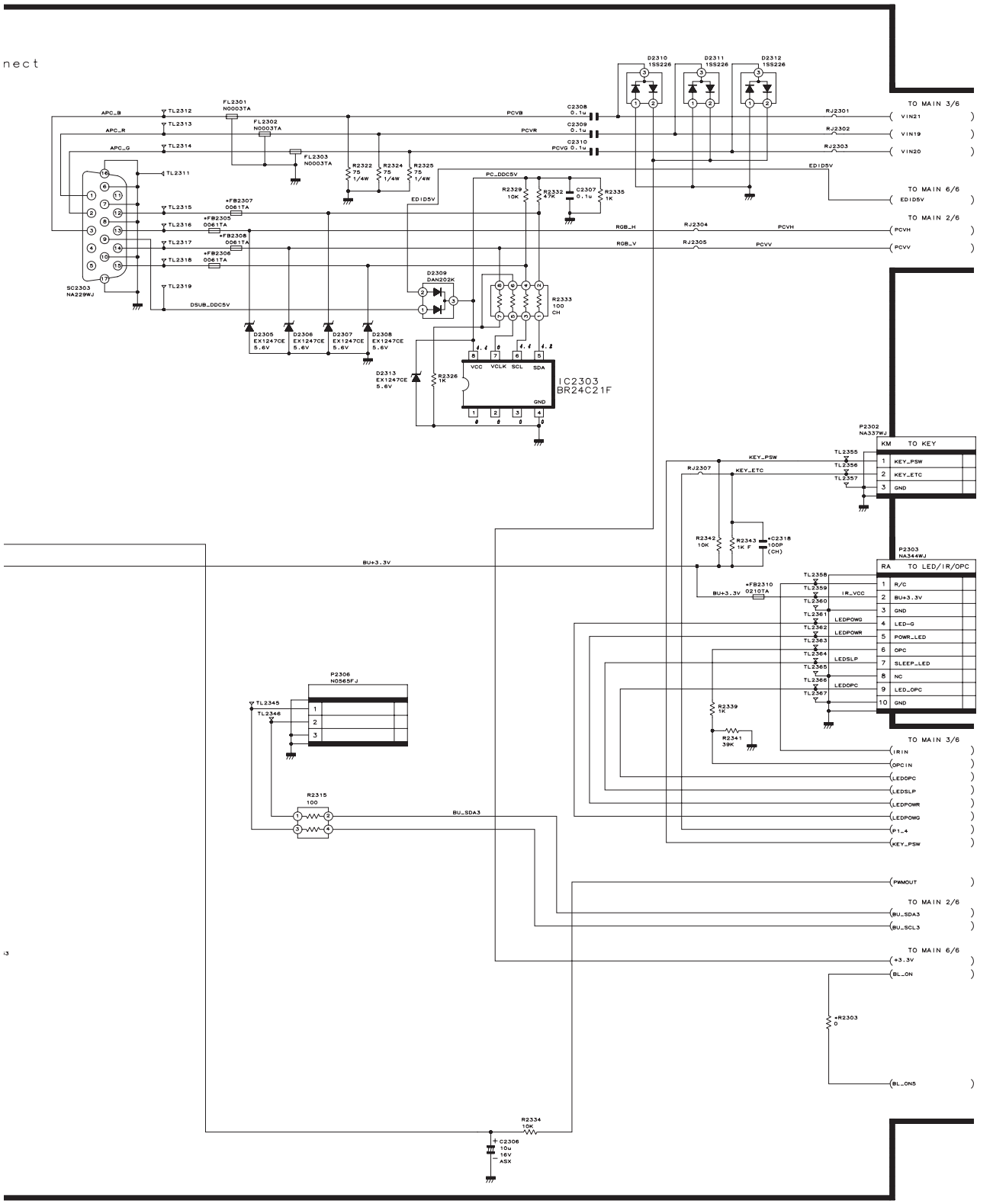
■ MAIN Unit-3


LC−42SD1E
VCTP
(MAIN 3)
.DUNTKD890WE18
IC3001
BR24L64F
IC3005
BU4215G
*IC3002
IXB624WJN1
VCT6973
If not used, leave vacant
TO MAIN 2/6
TO MAIN 1/6
TO MAIN 4/6
TO MAIN 6/6
TO MAIN 5/6


TO MAIN 6/6
TO MAIN 5/6
TO MAIN 2/6
TO MAIN 1/6
TO MAIN 4/6
IC3003 IXB664WJ
PIC16F913
Q3003
3LN01S
Q3004
3LN01S
X3001
SC0012CE
20.25MHz
TH3002
M1103J03
RA total<=100mA,RB total<=100mA
20mA(Icc Clamp) 25mA(Max) /PIN
POWER ON -> INPUT
(RA[4:0] Analog Input)
11
12
13
14
15
16
17
18
19

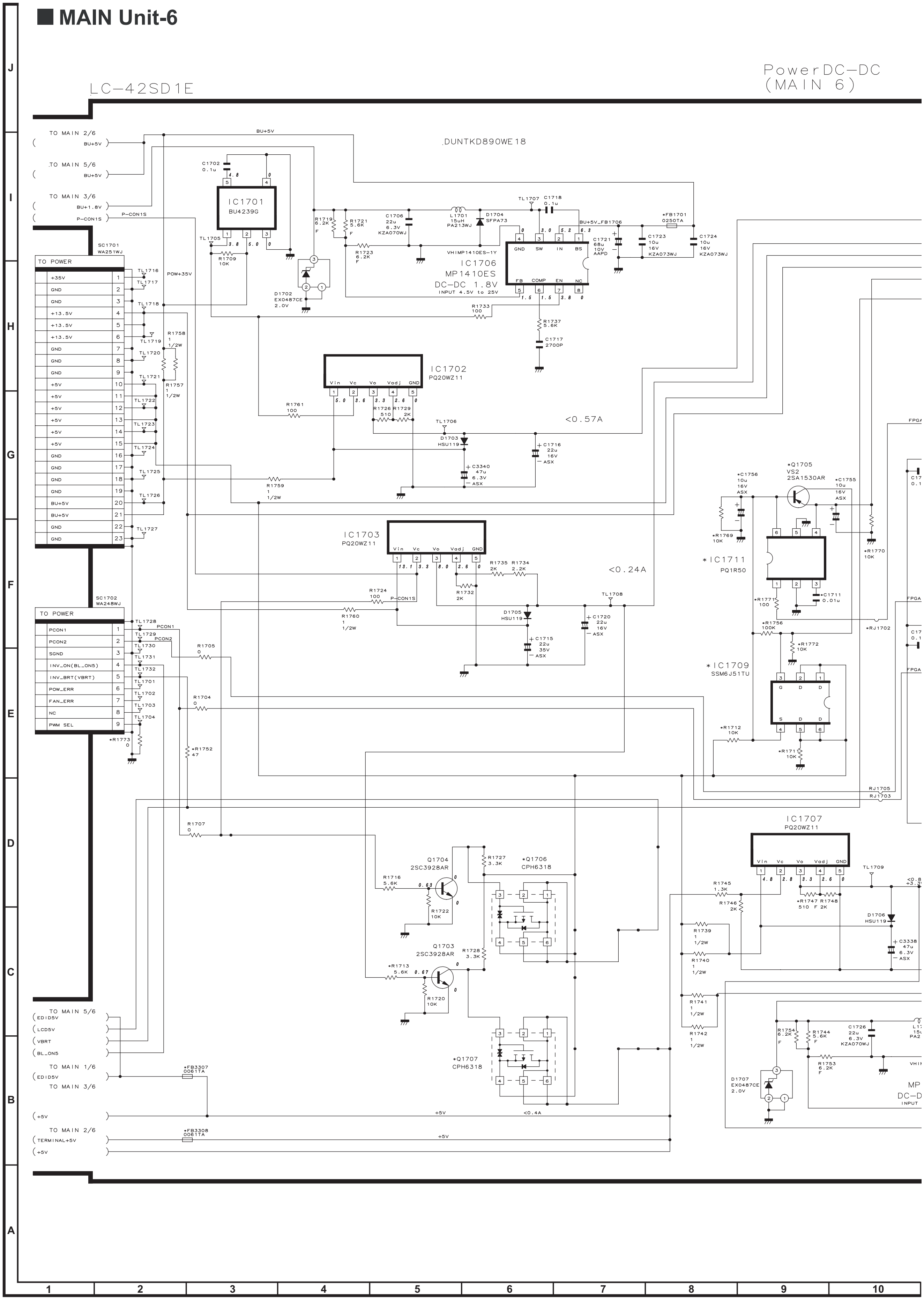
■ MAIN Unit-5


LC−42SD1E
MISC
(MAIN 5)
.DUNTKD890WE18
1366x768 PANEL Connect
JAE FIX30M
P2305
NA493WJ
LV
P2301
NA341WJ
SH
TO MAIN 6/6
TO MAIN 3/6
TO MAIN 2/6
LCD5V
LVDS0N
LVDS0P
LVDS1N
LVDS1P
LVDS2N
LVDS2P
LVDSCN
LVDSCP
LVDS3N
LVDS3P
LCDLR
LCDUD
TEMP1
TEMP2
TEMP3
QSSET
FRAME
P1_6
P1_7
RESET_N
RXD
TXD
CADC4
CADC3
BU+3.3V
SEL_LVDS
RIN0−
RIN0+
RIN1−
RIN1+
RIN2−
RIN2+
CLKIN−
CLKIN+
RIN3−
RIN3+
ROMSEL0
OSEN
ROMSEL1
IC2301
ISL83220
SHDN
VCC
GND
NC
EN
C1+
V+
C1−
C2+
C2−
V−
RS232C_3.3V



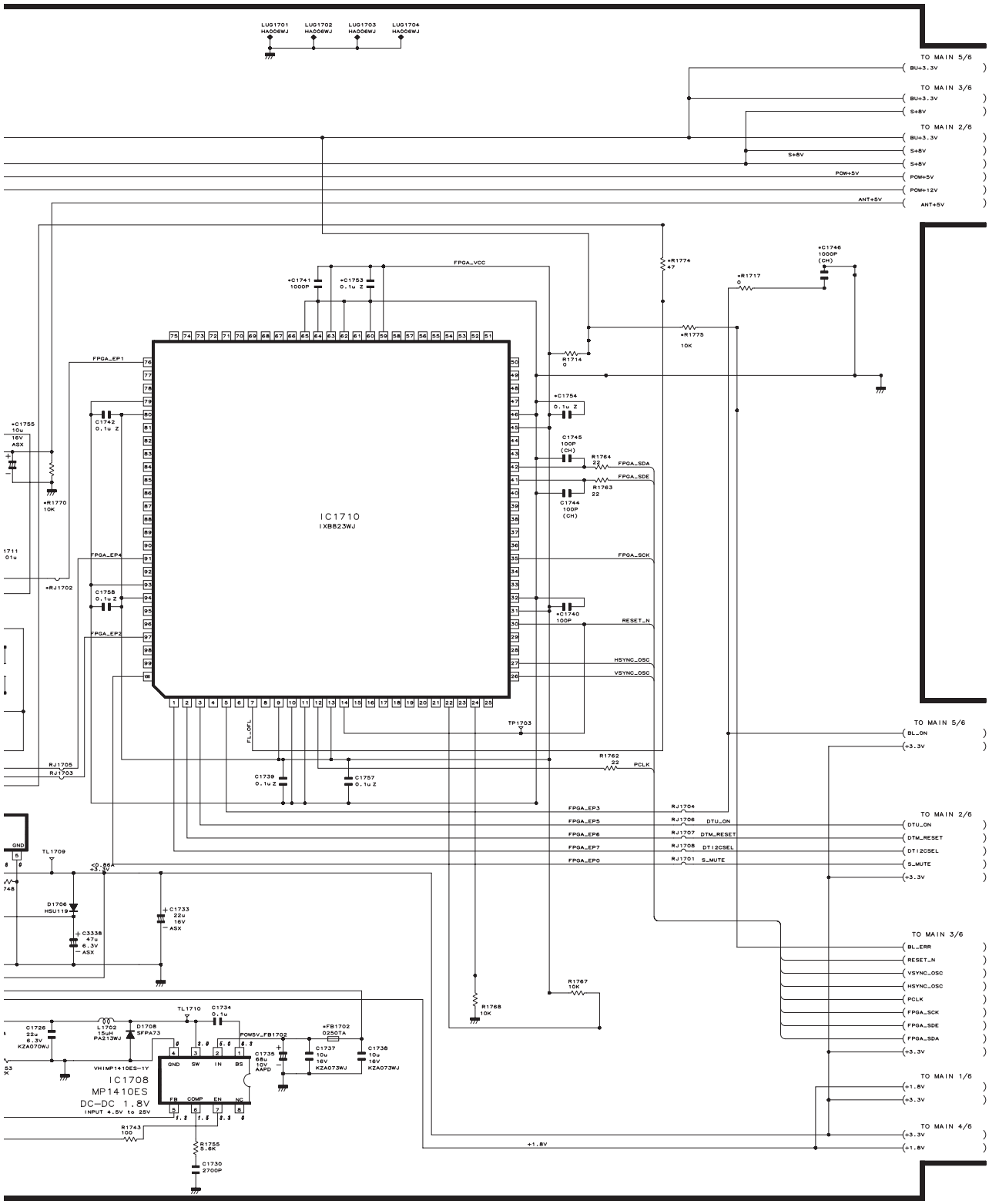
11	12	13	14	15	16	17	18	19

■ MAIN Unit-6



LC-42SD1E
Power DC-DC (MAIN 6)
DUNTKD890WE18
IC1701 BU4239G
IC1706 MP1410ES DC-DC 1.8V
IC1702 PQ20WZ11
IC1703 PQ20WZ11
IC1711 PQ1R50
IC1709 SSM6J51TU
IC1707 PQ20WZ11
Q1704 2SC3928AR
Q1703 2SC3928AR
Q1706 CPH6318
Q1707 CPH6318
Q1705 VS2 2SA1530AR
TO POWER
TO MAIN 2/6
TO MAIN 5/6
TO MAIN 3/6
TO MAIN 1/6

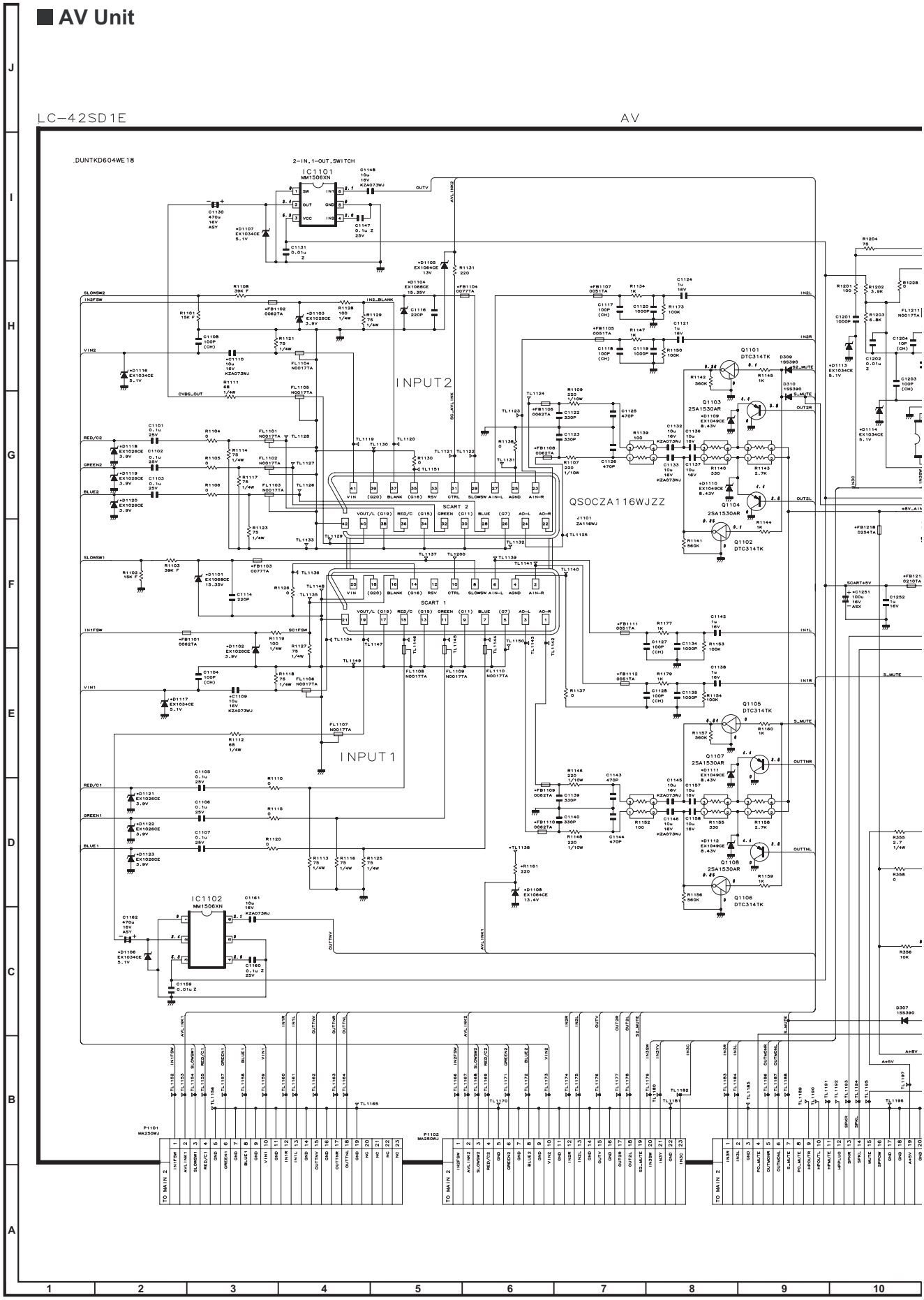
)C–DC
6)

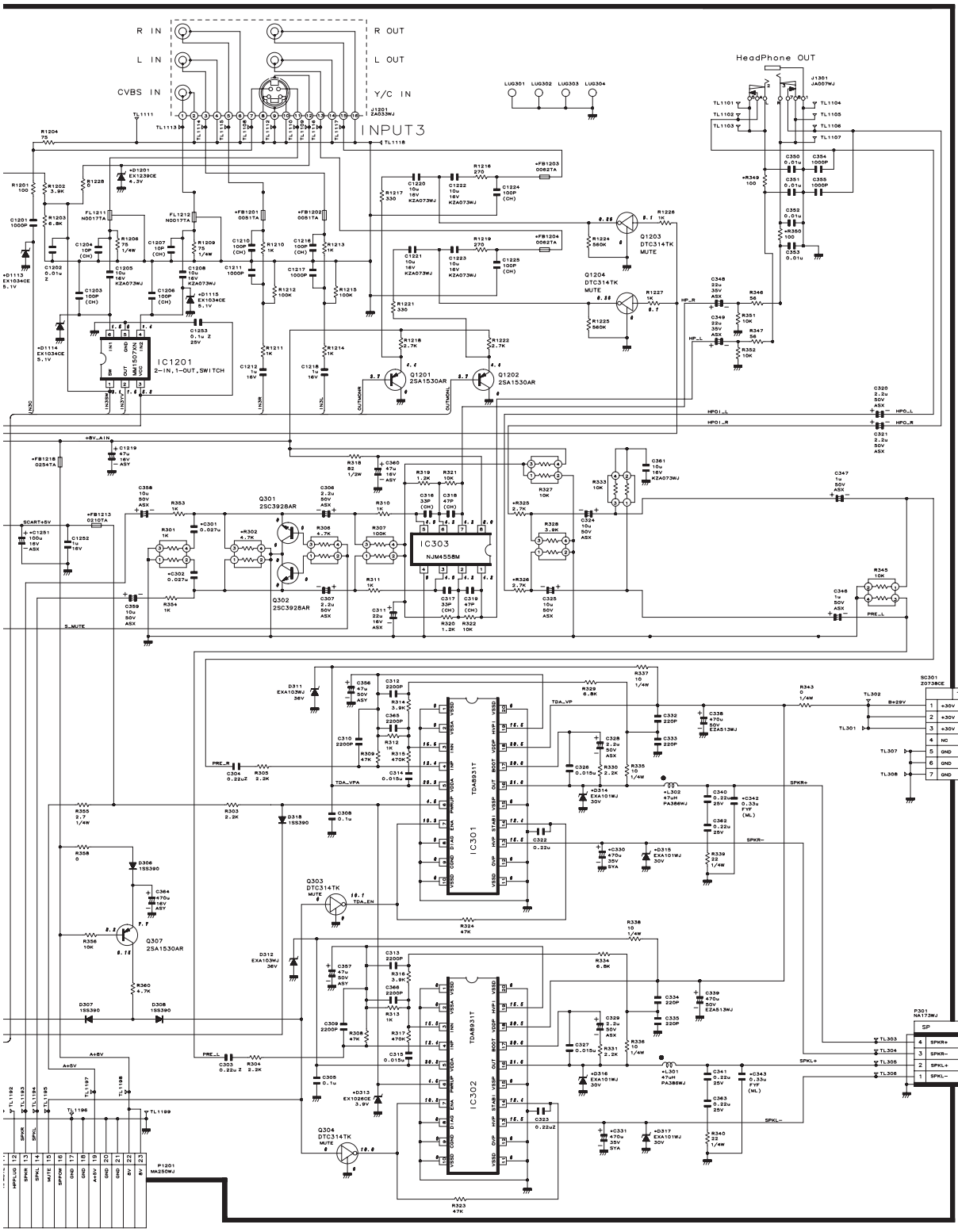


11	12	13	14	15	16	17	18	19

■ AV Unit

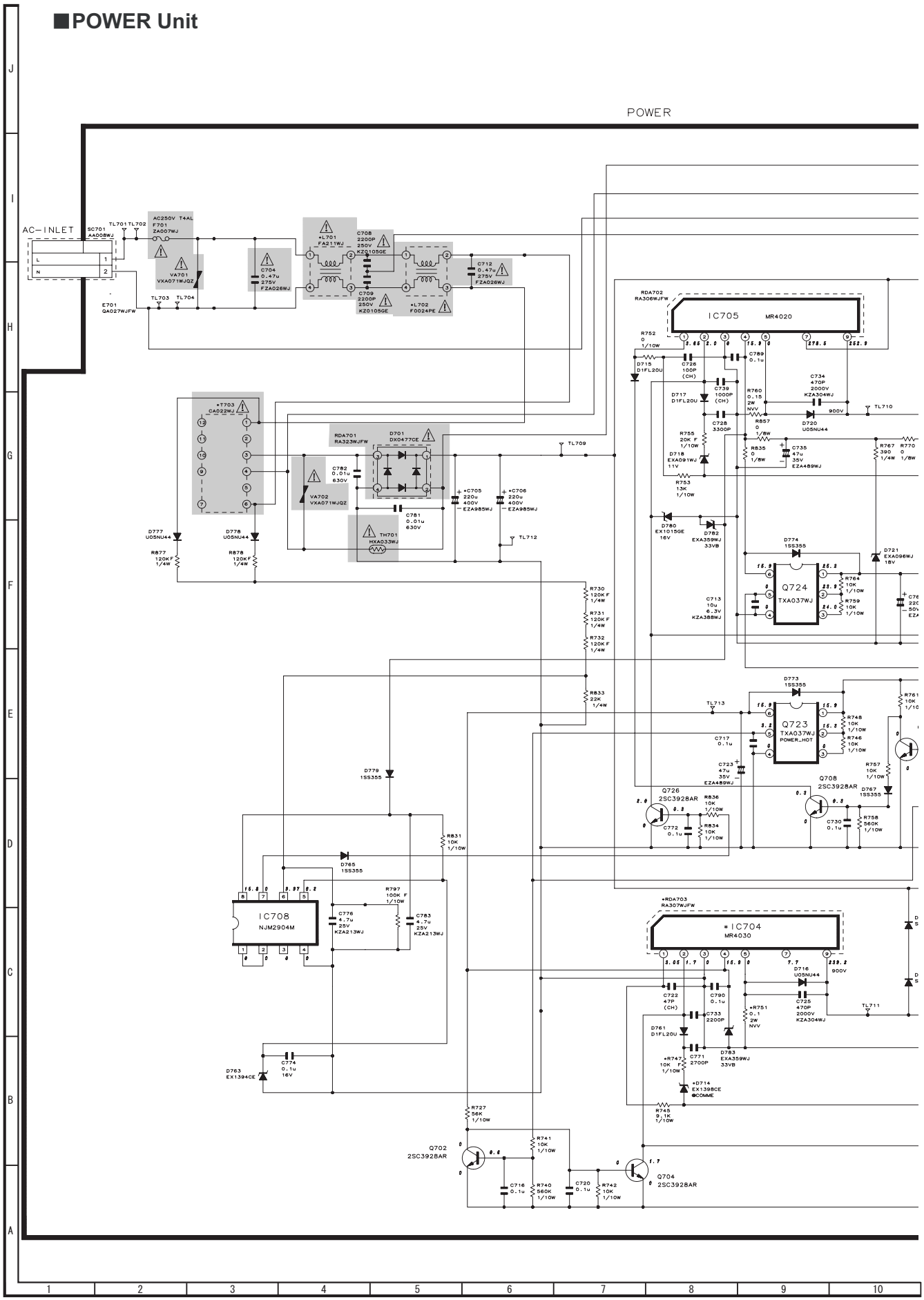
LC−42SD1E AV

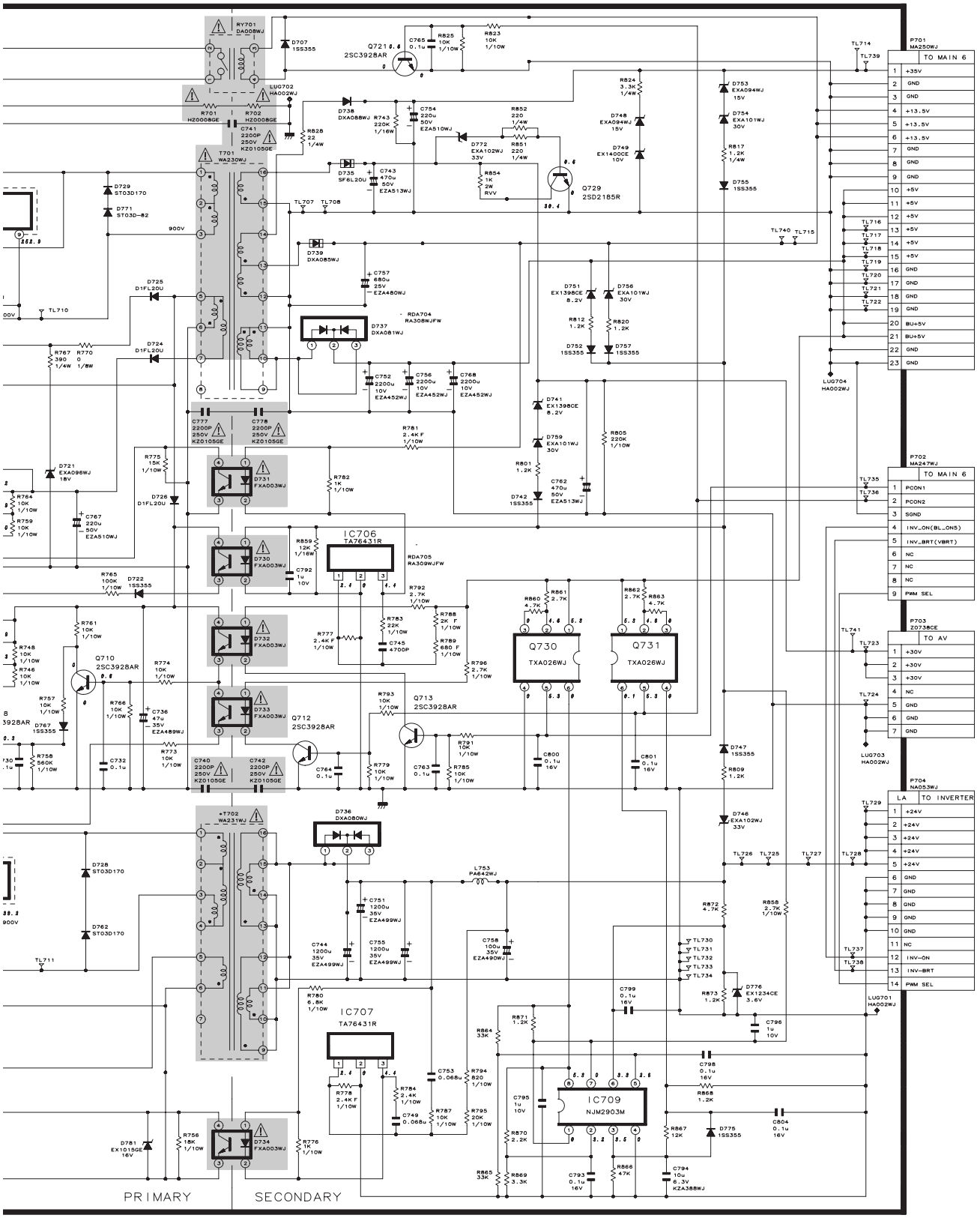




11	12	13	14	15	16	17	18	19

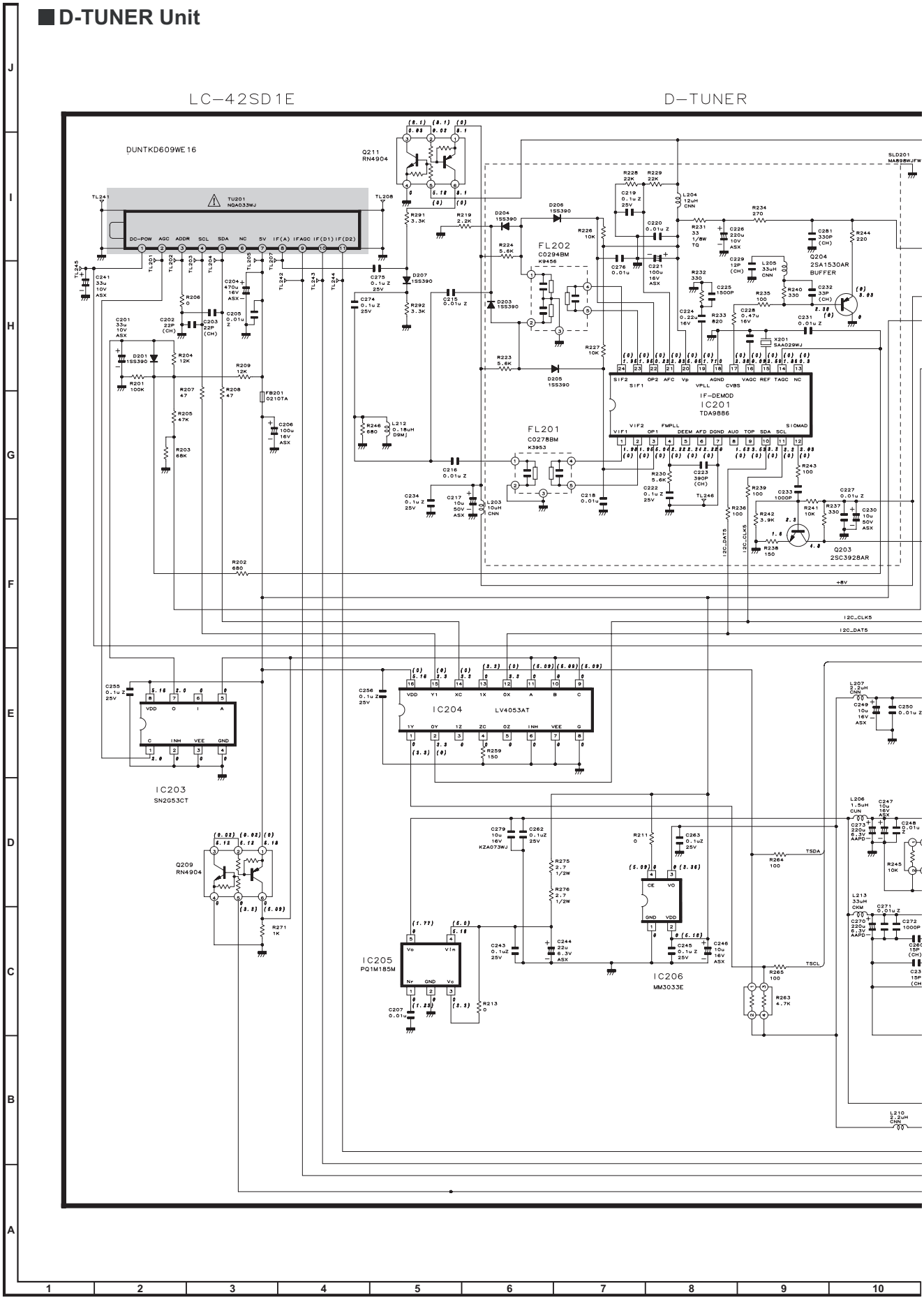
■POWER Unit


POWER
AC-INLET
IC705 MR4020
IC708 NJM2904M
*IC704 MR4030
Q724 TXA037WJ
Q723 TXA037WJ POWER_HOT
Q726 2SC3928AR
Q708 2SC3928AR
Q702 2SC3928AR
Q704 2SC3928AR

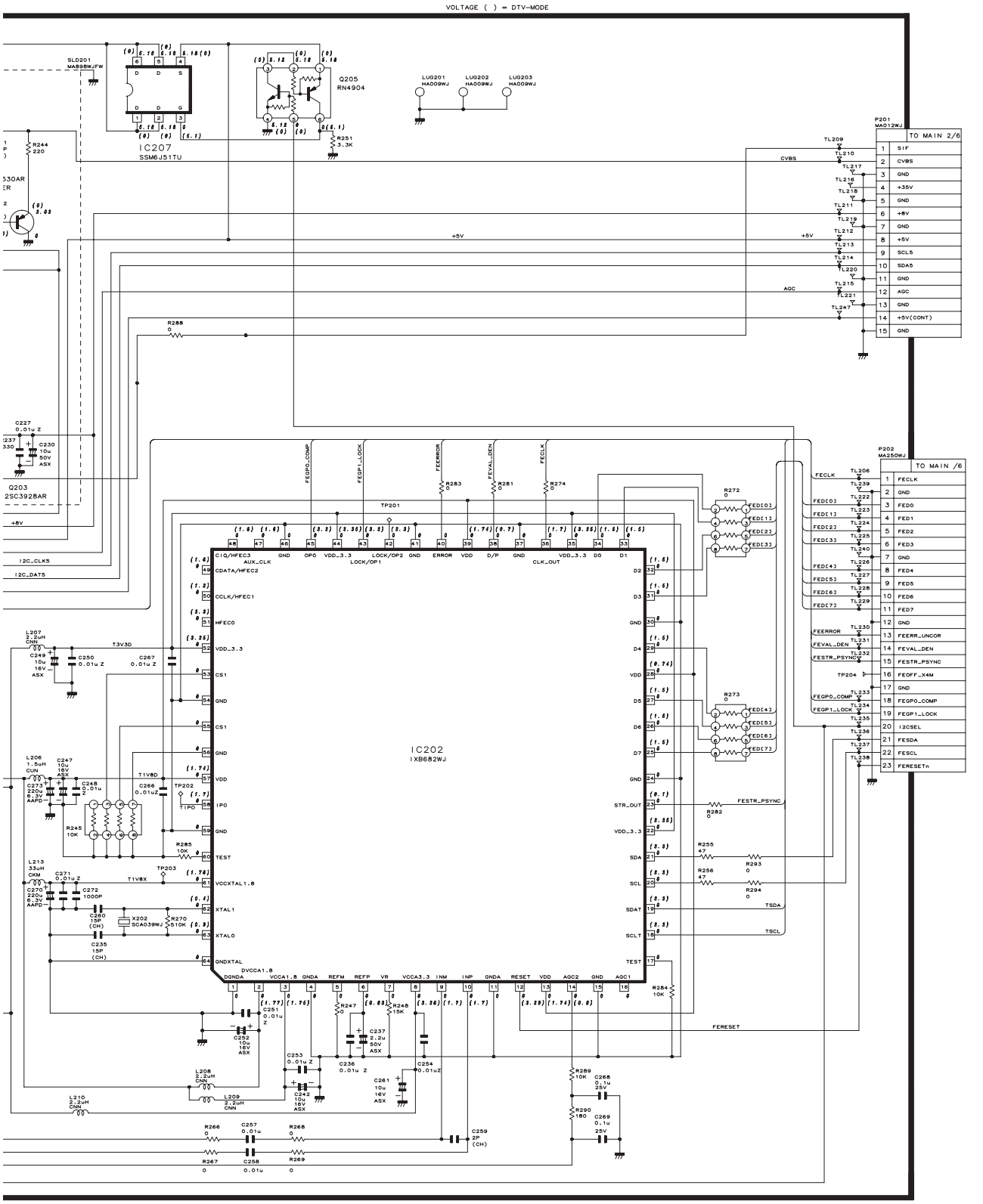


11	12	13	14	15	16	17	18	19

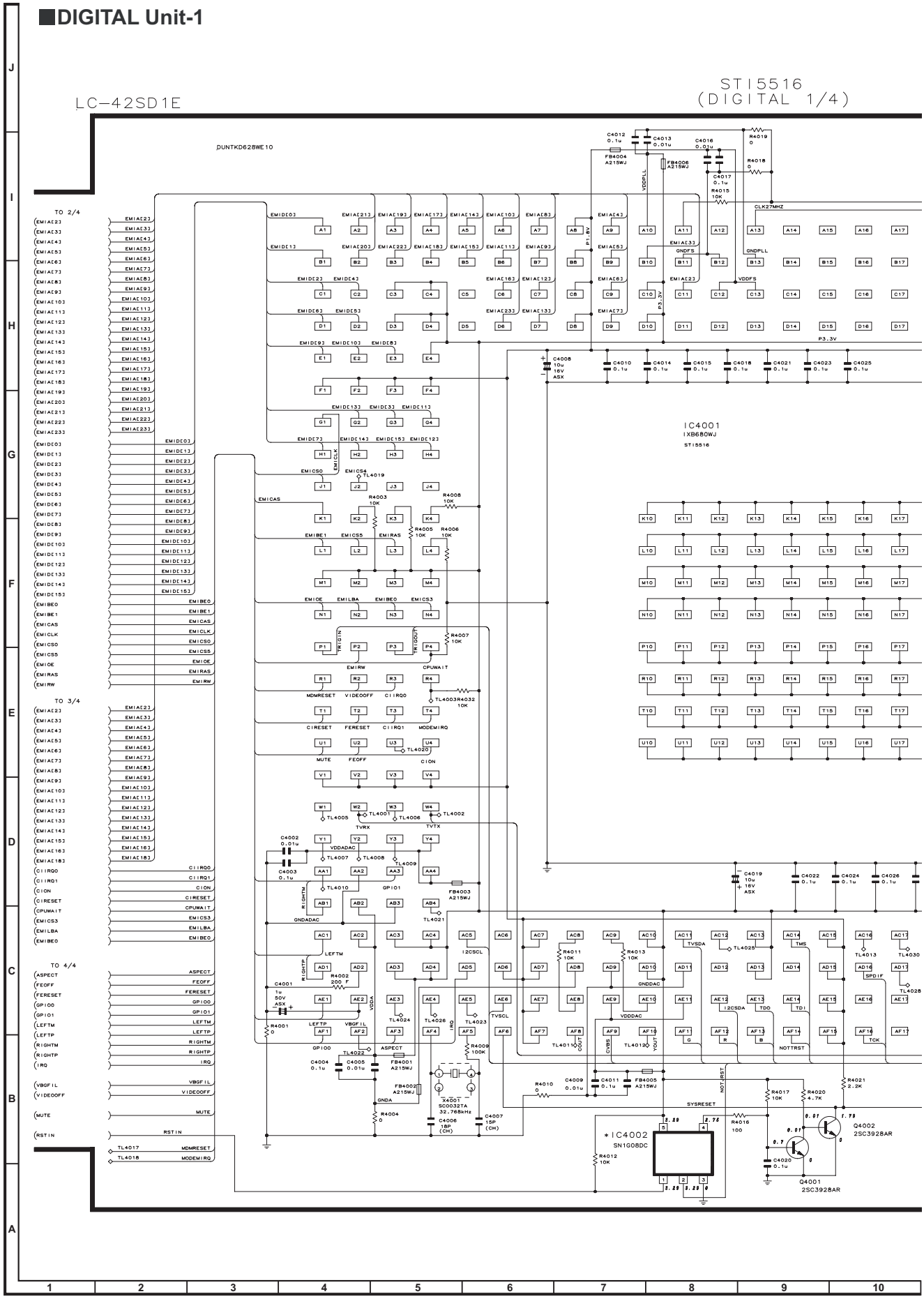
■ D-TUNER Unit


LC−42SD1E
D−TUNER
DUNTKD609WE16
TU201
NQA033WJ
DC−POW AGC ADDR SCL SDA NC 5V IF(A) IFAGC IF(D1) IF(D2)
Q211
RN4904
FL202
C0294BM
K9456
FL201
C0278BM
K3953
IC201
TDA9886
IF−DEMOD
SIF2 SIF1 OP2 AFC Vp VPLL AGND CVBS VAGC REF TAGC NC
VIF1 VIF2 FMPLL OP1 DEEM AFD DGND AU0 TOP SDA SCL S10MAD
IC204
LV4053AT
IC203
SN2G53CT
IC205
PQ1M185M
IC206
MM3033E
Q203
2SC3928AR
Q204
2SA1530AR
BUFFER
Q209
RN4904
X201
SAA029WJ
SLD201
MAB9BWJFW
FB201
0210TA
L212
0.18uH
D9MJ
I2C_CLK5
I2C_DAT5
+8V
TSDA
TSCL

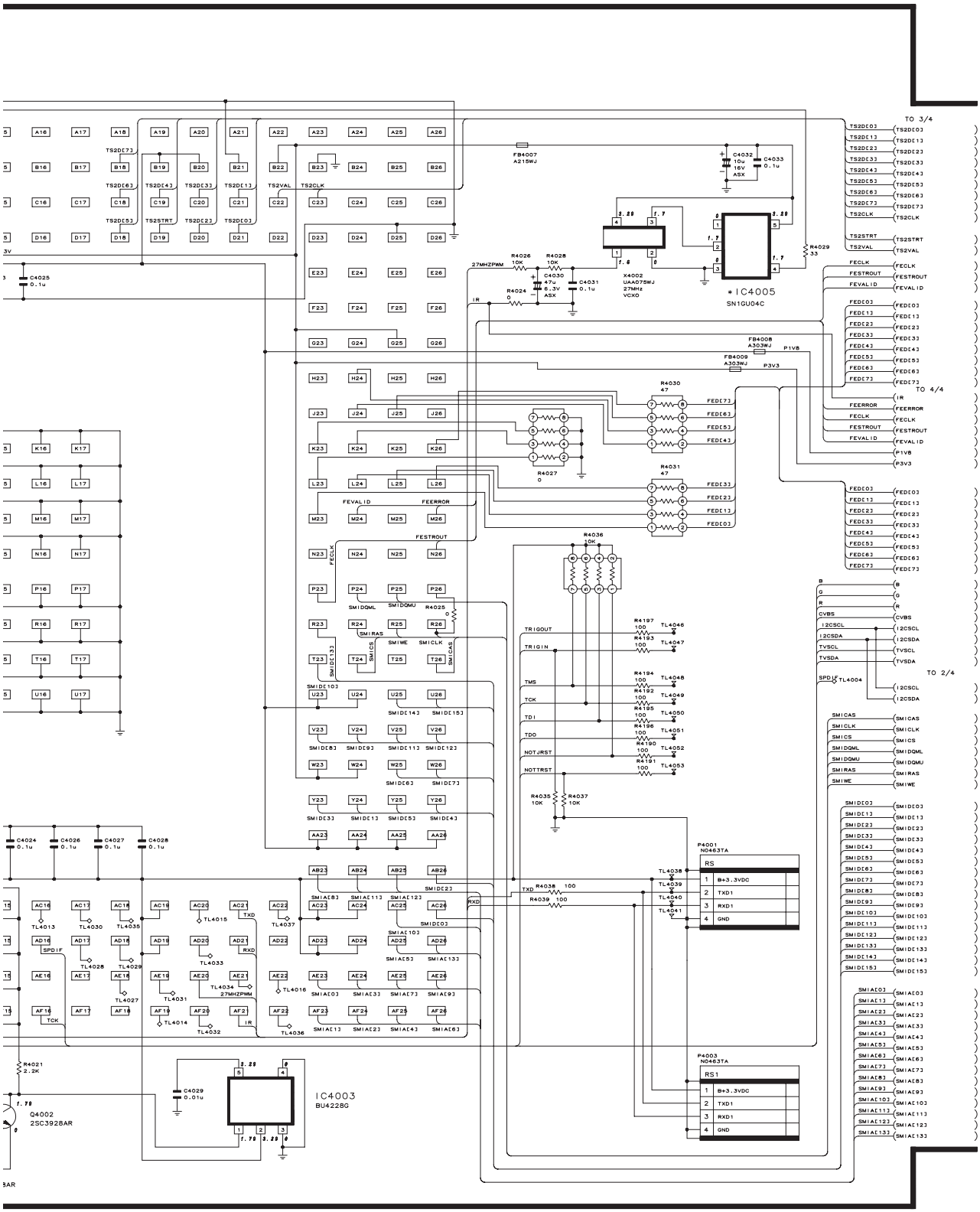
⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS



■DIGITAL Unit-1



4)

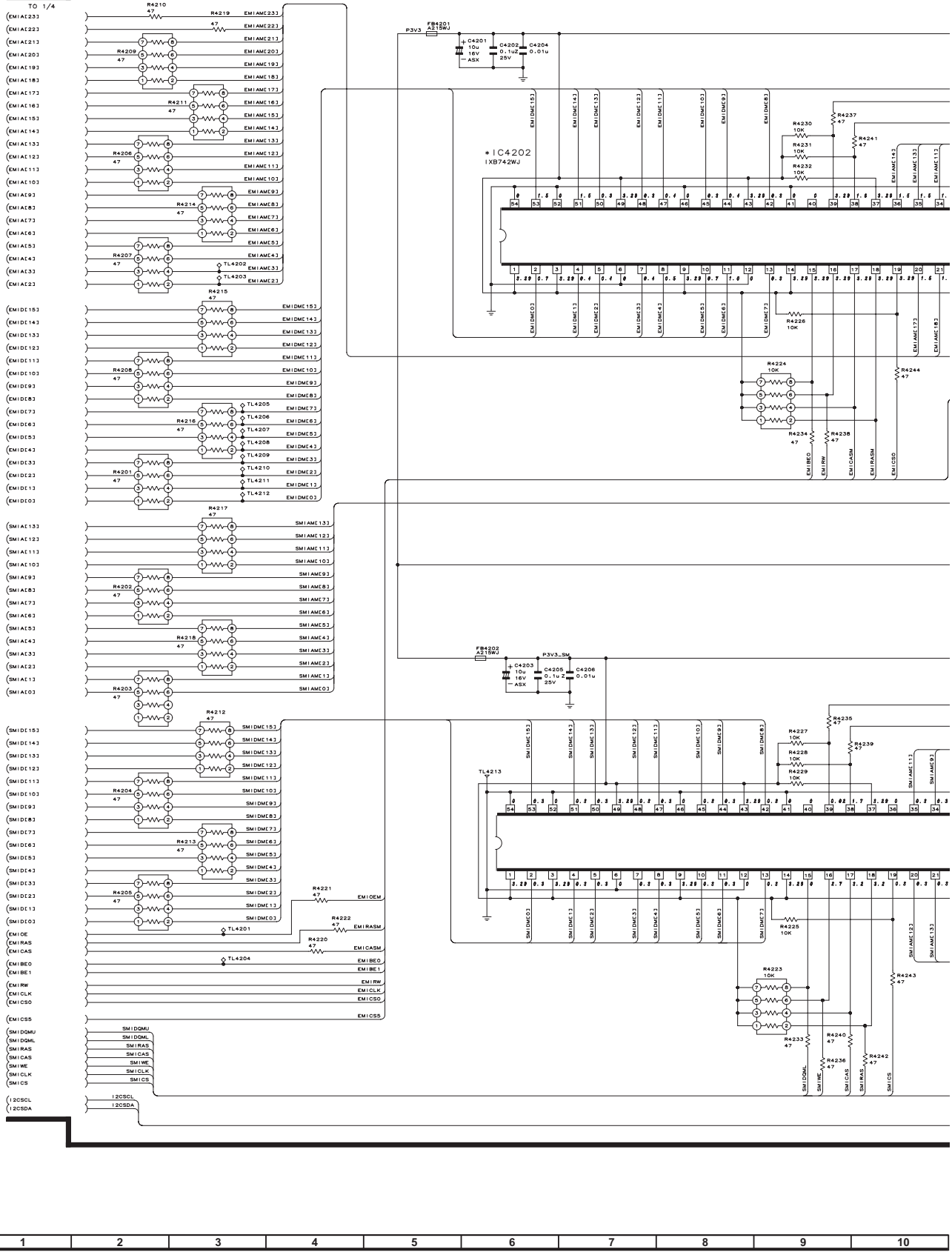


11	12	13	14	15	16	17	18	19

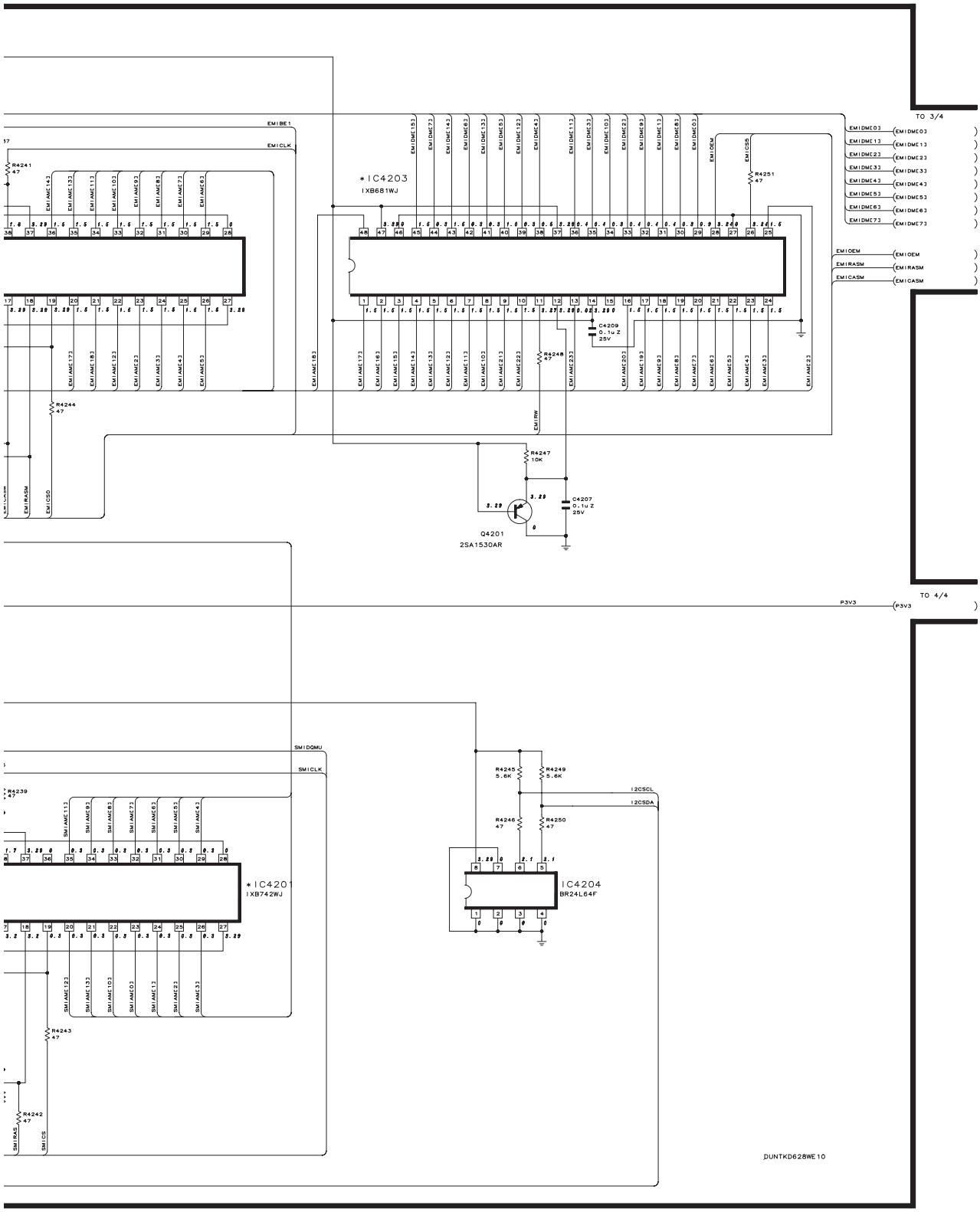
■ DIGITAL Unit-2

LC-42SD1E

MEMORIES
(DIGITAL 2/4)

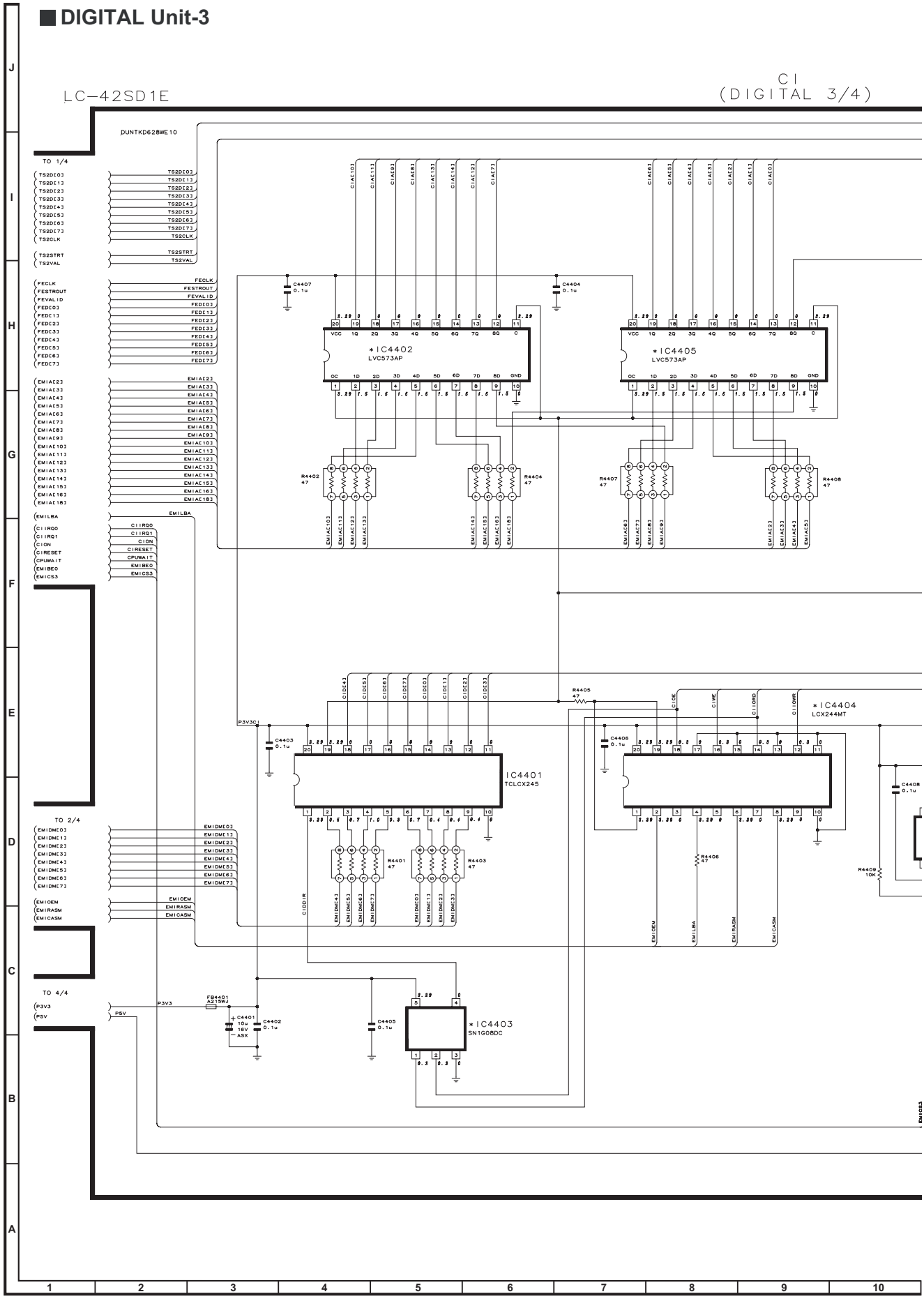


4)

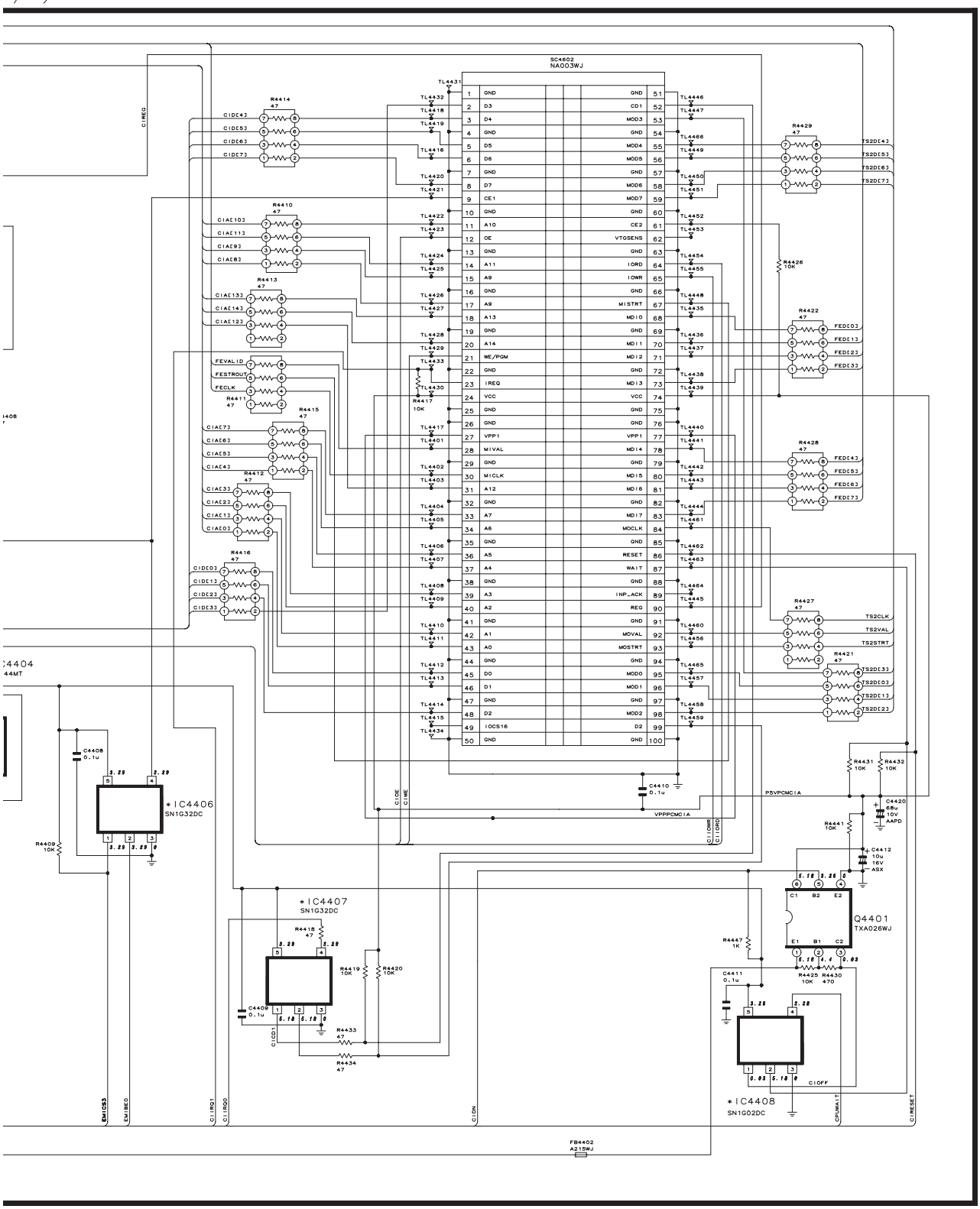


11	12	13	14	15	16	17	18	19

■ DIGITAL Unit-3



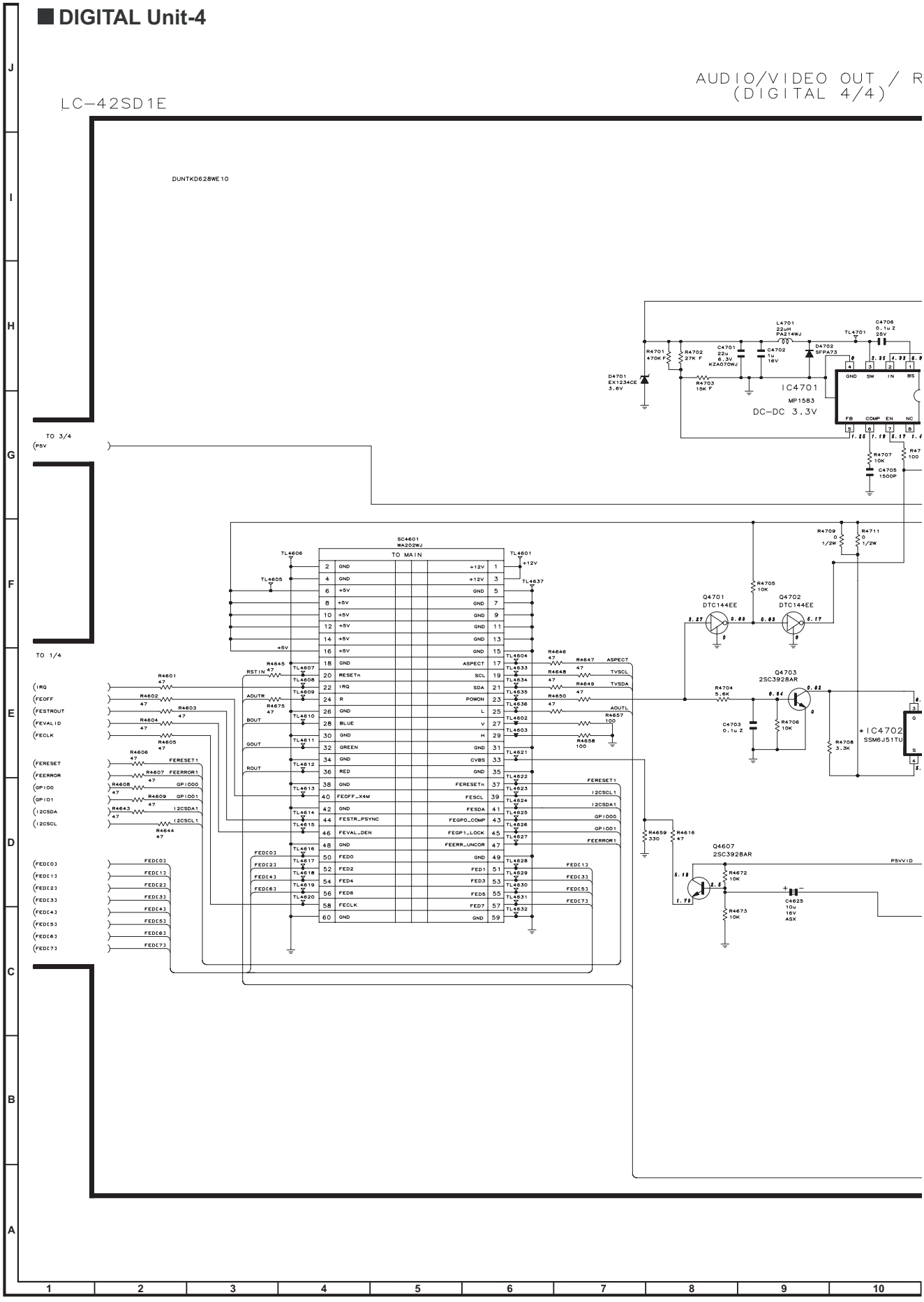
3/4)


SC4602
NA003WJ
*IC4406
SN1G32DC
*IC4407
SN1G32DC
*IC4408
SN1G02DC
Q4401
TXA026WJ
C4408 0.1u
C4409 0.1u
C4410 0.1u
C4411 0.1u
C4412 10u 16V ASX
C4420 68u 10V AAPD
R4409 10K
R4410 47
R4411 47
R4412 47
R4413 47
R4414 47
R4415 47
R4416 47
R4417 10K
R4418 47
R4419 10K
R4420 10K
R4421 47
R4422 47
R4425 10K
R4426 10K
R4427 47
R4428 47
R4429 47
R4430 470
R4431 10K
R4432 10K
R4433 47
R4434 47
R4441 10K
R4447 1K
FB4402
A215WJ
P5VPCMCIA
VPPPCMCIA
C1OFF

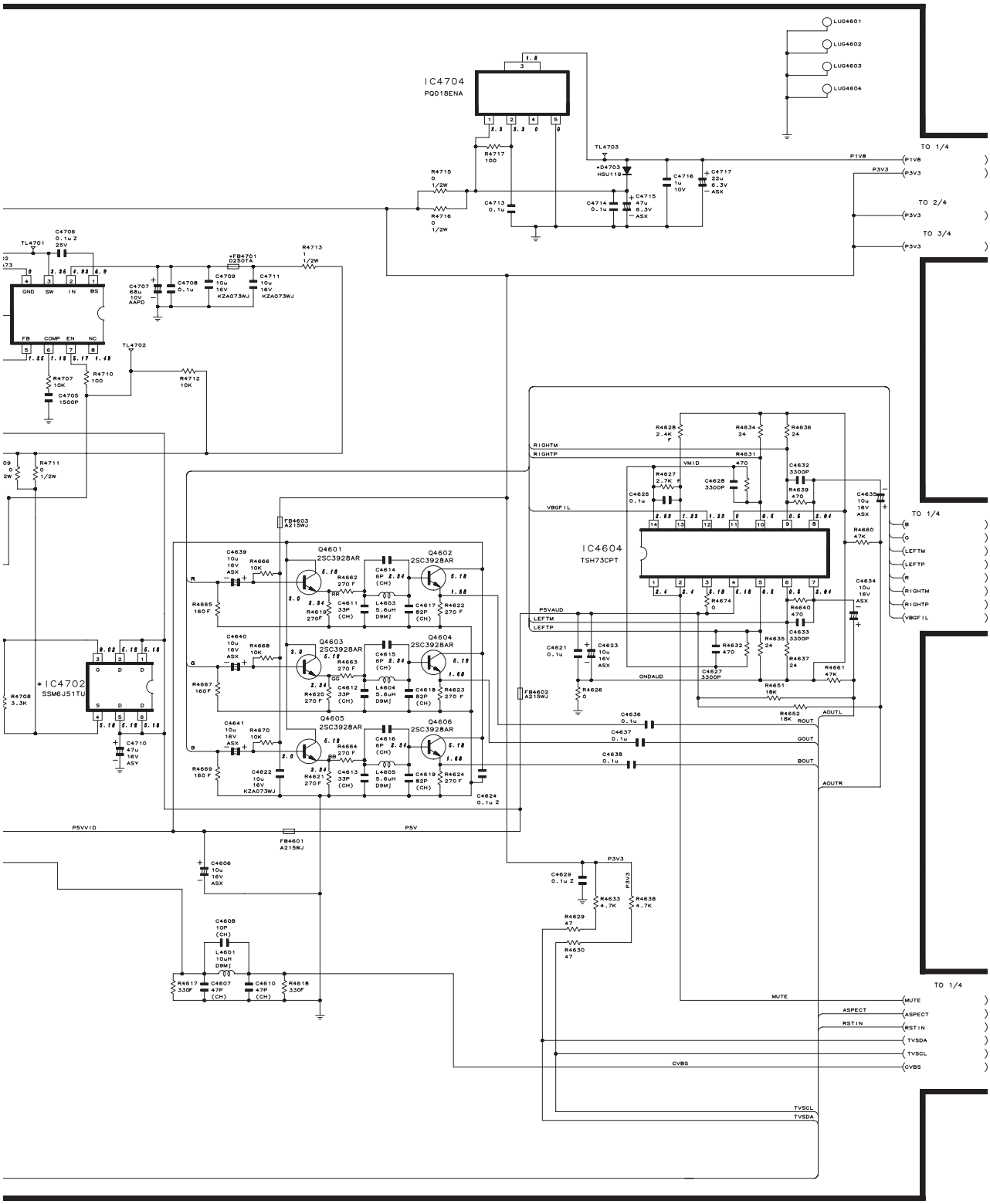
■ DIGITAL Unit-4

AUDIO/VIDEO OUT / R
(DIGITAL 4/4)

LC-42SD1E

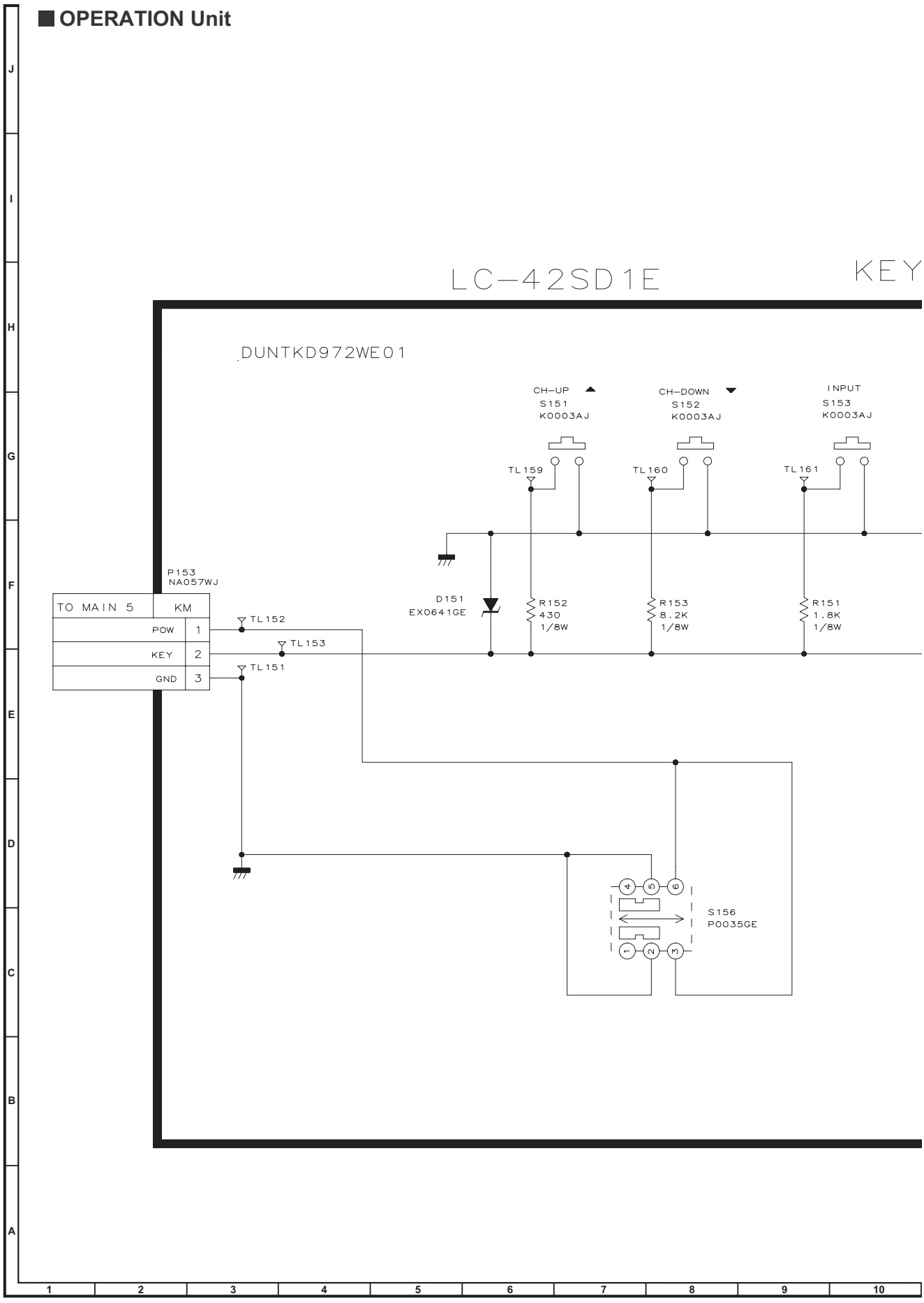


OUT / REG
4/4)

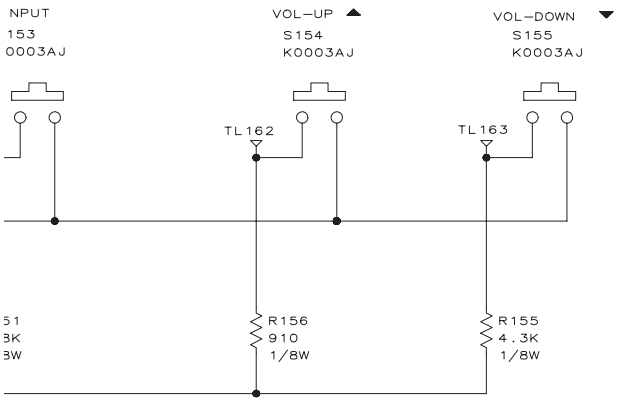


11	12	13	14	15	16	17	18	19

■ OPERATION Unit

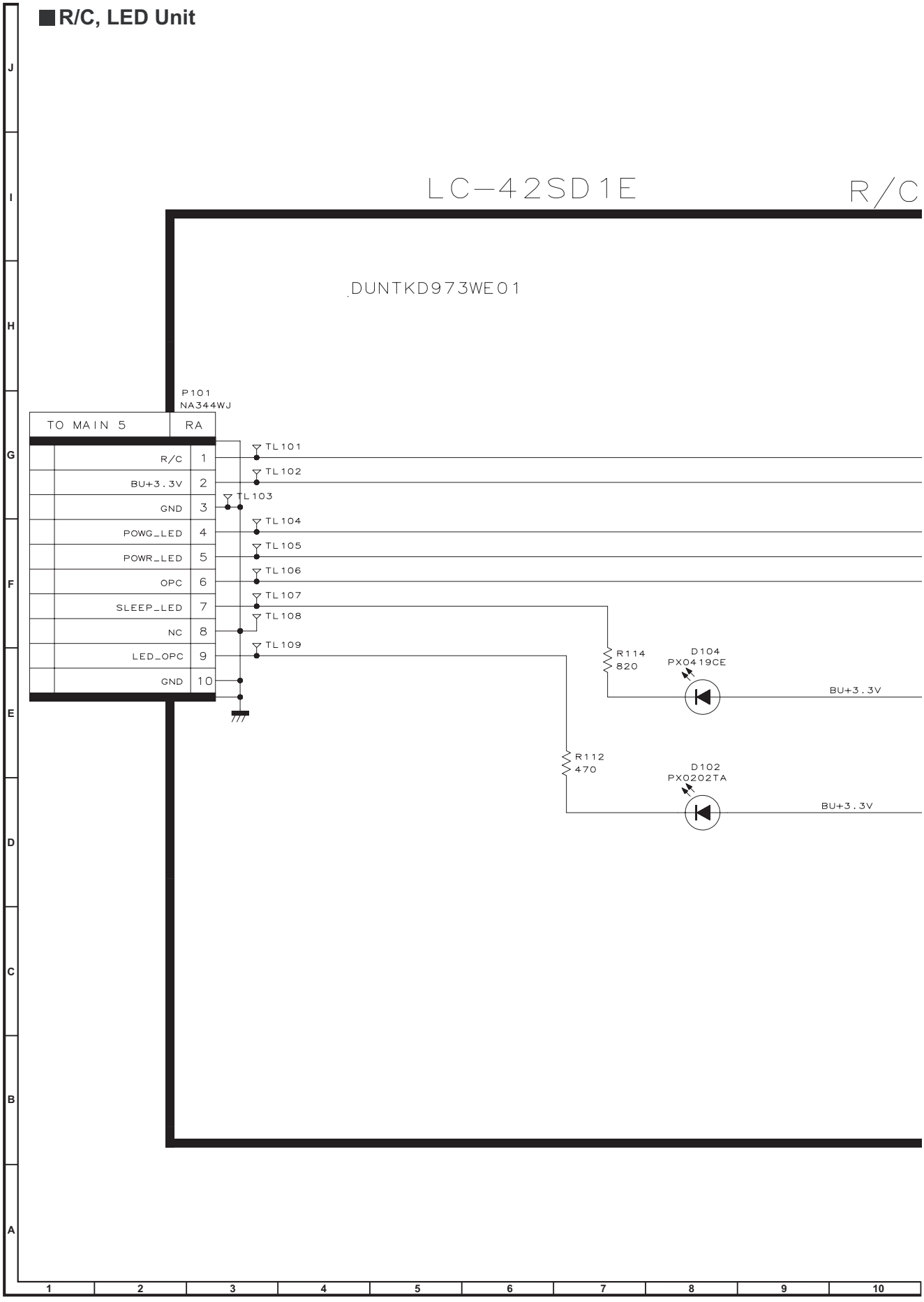


KEY

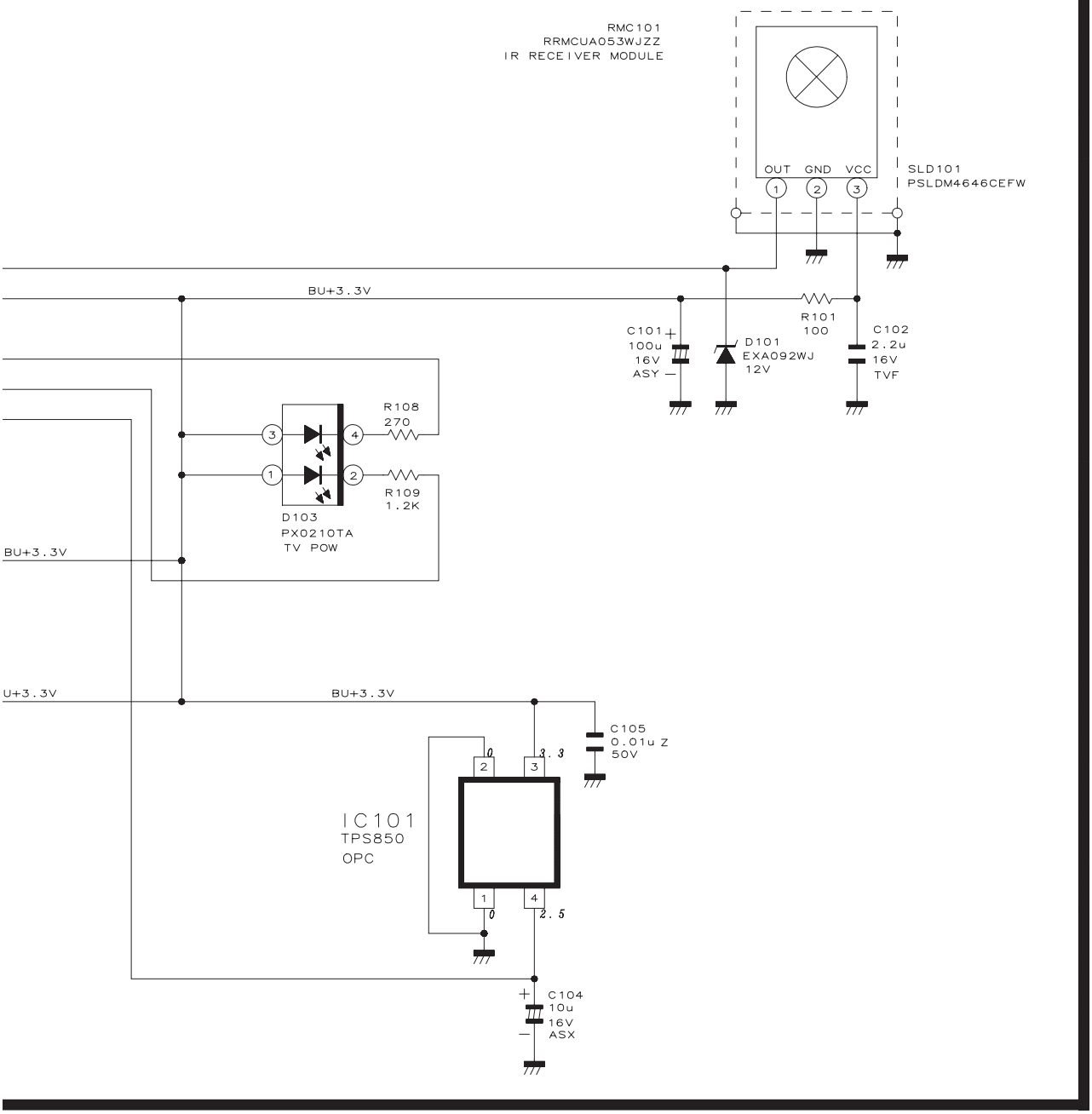


11	12	13	14	15	16	17	18	19

■R/C, LED Unit


LC−42SD1E
R/C
DUNTKD973WE01
P101
NA344WJ
TO MAIN 5
RA
R/C 1
BU+3.3V 2
GND 3
POWG_LED 4
POWR_LED 5
OPC 6
SLEEP_LED 7
NC 8
LED_OPC 9
GND 10
TL101
TL102
TL103
TL104
TL105
TL106
TL107
TL108
TL109
R114
820
D104
PX0419CE
BU+3.3V
R112
470
D102
PX0202TA
BU+3.3V

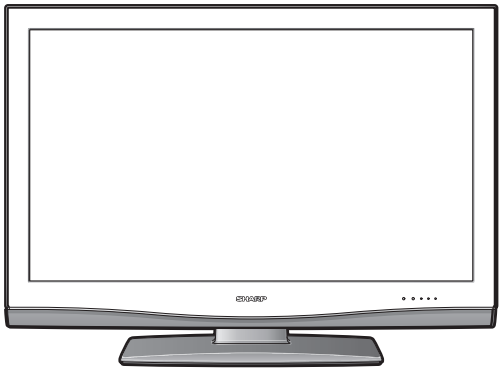
R/C.LED



11	12	13	14	15	16	17	18	19

— M E M O —

SHARP PARTS GUIDE



LCD COLOR TELEVISION

MODELS LC-37SD1E/RU

CONTENTS

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.

SHARP CORPORATION

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[1] PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)					
	DUNTKD890FM20		N	R	MAIN Unit
	DUNTKD604FM20		N	R	AV Unit
	DUNTKD605FM18		N	R	POWER Unit
	DUNTKD609FM16		N	S	DIGITAL TUNER Unit
	DUNTKD628FM11		N	R	DIGITAL Unit
	DUNTKD972FM01		N	R	KEY_Unit
	DUNTKD973FM01		N	R	R/C,LED Unit
[2] LCD PANEL AND TUNER (NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.)					
	R1LK370T3LZ5BX	EZ		V	37 WXGA LCD Panel Module Unit
⚠ TU201	RTUNQA033WJZZ			S	U/V Tuner
[3] DUNTKD890FM20 (MAIN Unit)					
C1702	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C1706	RC-KZA070WJZZY	AD		R	Capacitor, 22 6.3V Ceramic
C1711	VCKYCY1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C1715	VCEASX1VN226MY	AC		R	Capacitor, 22 35V Electrolytic
C1716	VCEASX1CN226MY	AC		R	Capacitor, 22 16V Electrolytic
C1717	VCKYCY1HB272KY	AA		R	Capacitor, 2700p 50V Ceramic
C1718	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C1720	VCEASX1CN226MY	AC		R	Capacitor, 22 16V Electrolytic
C1721	VCAAPD1AJ686MY	AE		R	Capacitor, 68 10V Electrolytic
C1723	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1724	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1726	RC-KZA070WJZZY	AD		R	Capacitor, 22 6.3V Ceramic
C1730	VCKYCY1HB272KY	AA		R	Capacitor, 2700p 50V Ceramic
C1733	VCEASX1CN226MY	AC		R	Capacitor, 22 16V Electrolytic
C1734	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C1735	VCAAPD1AJ686MY	AE		R	Capacitor, 68 10V Electrolytic
C1737	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1738	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1739	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C1740	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1741	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1742	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C1744	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1745	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1746	VCCCCY1HH102JY	AB		R	Capacitor, 1000p 50V Ceramic
C1747	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1748	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1749	VCKYCY1HB221KY	AA		R	Capacitor, 220p 50V Ceramic
C1750	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1751	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1752	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1753	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C1754	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C1755	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C1756	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C1757	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C1758	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C1760	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
C1901	VCEASY1CN476MY	AC		R	Capacitor, 47 16V Electrolytic
C1903	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C1906	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C1910	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1912	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1913	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1916	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1917	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1918	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1919	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1921	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1923	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1924	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1927	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1928	VCKYCY1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C1929	VCCCCY1HH120JY	AA		R	Capacitor, 12p 50V Ceramic
C1930	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1931	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1934	VCCCCY1HH120JY	AA		R	Capacitor, 12p 50V Ceramic
C1935	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1936	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1941	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1943	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1946	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1947	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C1948	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1953	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C1955	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1956	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1959	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C1960	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1965	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD890FM20 (MAIN Unit)					
C1967	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1968	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1969	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1971	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1973	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1974	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1975	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C2301	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C2302	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C2303	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C2304	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C2305	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C2306	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C2307	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C2308	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
C2309	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
C2310	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
C2312	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C2318	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C2701	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C2702	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C2703	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C2704	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C2705	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C2706	VCEASX1HN105MY	AB		R	Capacitor, 1 50V Electrolytic
C2707	VCEASX1HN105MY	AB		R	Capacitor, 1 50V Electrolytic
C2708	VCEASX1HN105MY	AB		R	Capacitor, 1 50V Electrolytic
C2709	VCEASX1HN105MY	AB		R	Capacitor, 1 50V Electrolytic
C2710	VCKYTV1EB104KY	AB		R	Capacitor, 0.1 25V Ceramic
C2711	VCKYCY1CF105ZY	AA		R	Capacitor, 1.0 16V Ceramic
C2712	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C2714	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C2715	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C2718	VCKYCY1CF105ZY	AA		R	Capacitor, 1.0 16V Ceramic
C2719	VCKYCY1CF105ZY	AA		R	Capacitor, 1.0 16V Ceramic
C2722	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C2723	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C2724	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C2725	VCKYCY1HB221KY	AA		R	Capacitor, 220p 50V Ceramic
C2726	VCKYTV1EB104KY	AB		R	Capacitor, 0.1 25V Ceramic
C2727	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C2728	VCKYCY1CF105ZY	AA		R	Capacitor, 1.0 16V Ceramic
C2729	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
C2730	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C2731	VCKYTV1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C2732	VCKYTV1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C3001	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3002	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C3003	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3004	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C3005	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C3006	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C3007	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3008	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3009	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3010	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C3011	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3012	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3013	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3014	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
C3015	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3016	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
C3017	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C3018	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3019	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3020	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
C3021	VCCCCY1HH560JY	AB		R	Capacitor, 56p 50V Ceramic
C3022	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C3023	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3024	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3025	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3027	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C3028	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3029	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C3030	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3031	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C3032	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3033	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3034	VCCCCY1HH150JY	AA		R	Capacitor, 15p 50V Ceramic
C3035	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C3036	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C3037	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3038	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3039	VCCCCY1HH180JY	AA		R	Capacitor, 18p 50V Ceramic
C3040	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD890FM20 (MAIN Unit)					
C3041	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C3042	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C3044	VCKYCY1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C3045	VCKYCY1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C3046	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C3048	VCEASX0JN476MY	AC		R	Capacitor, 47 6.3V Electrolytic
C3049	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C3338	VCEASX0JN476MY	AC		R	Capacitor, 47 6.3V Electrolytic
C3340	VCEASX0JN476MY	AC		R	Capacitor, 47 6.3V Electrolytic
D1702	RH-EX0487CEZZY	AC		R	Zener Diode, HZM2.0NBTL-E
D1703	VHDHSU119//-1Y	AB		R	Diode, HSU119TRF-E
D1704	VHDSFPA73//2EY	AD		R	Diode, SFPA-73VL
D1705	VHDHSU119//-1Y	AB		R	Diode, HSU119TRF-E
D1706	VHDHSU119//-1Y	AB		R	Diode, HSU119TRF-E
D1707	RH-EX0487CEZZY	AC		R	Zener Diode, HZM2.0NBTL-E
D1708	VHDSFPA73//2EY	AD		R	Diode, SFPA-73VL
D1901	VHDDAN202K/-1Y	AB		R	Diode, DAN202KT146
D1903	VHD1SS355//-1Y	AB		R	Diode, 1SS355TE-17
D1905	VHD1SS355//-1Y	AB		R	Diode, 1SS355TE-17
D2301	RH-EX1271CEZZY	AB		R	Zener Diode, HZU12B2TRF
D2302	RH-EX1271CEZZY	AB		R	Zener Diode, HZU12B2TRF
D2303	RH-EX1271CEZZY	AB		R	Zener Diode, HZU12B2TRF
D2304	RH-EX1271CEZZY	AB		R	Zener Diode, HZU12B2TRF
D2305	RH-EX1247CEZZY	AB		R	Zener Diode, HZU5.6B2TRF
D2306	RH-EX1247CEZZY	AB		R	Zener Diode, HZU5.6B2TRF
D2307	RH-EX1247CEZZY	AB		R	Zener Diode, HZU5.6B2TRF
D2308	RH-EX1247CEZZY	AB		R	Zener Diode, HZU5.6B2TRF
D2309	VHDDAN202K/-1Y	AB		R	Diode, DAN202KT146
D2310	VHD1SS226//-1Y	AC		R	Diode, 1SS226(T5L,F,T)
D2311	VHD1SS226//-1Y	AC		R	Diode, 1SS226(T5L,F,T)
D2312	VHD1SS226//-1Y	AC		R	Diode, 1SS226(T5L,F,T)
D2313	RH-EX1247CEZZY	AB		R	Zener Diode, HZU5.6B2TRF
FB1701	RBLN-0250TAZZY	AC		R	Balun, BLN-0250TA
FB1702	RBLN-0250TAZZY	AC		R	Balun, BLN-0250TA
FB1901	RBLN-0060TAZZY	AB		R	Balun, BLN-0060TA
FB1903	RBLN-0060TAZZY	AB		R	Balun, BLN-0060TA
FB1904	RBLN-0060TAZZY	AB		R	Balun, BLN-0060TA
FB1905	RBLN-0060TAZZY	AB		R	Balun, BLN-0060TA
FB1906	RBLN-0060TAZZY	AB		R	Balun, BLN-0060TA
FB1907	RBLN-0210TAZZY	AB		R	Balun, BLN-0210TA
FB1908	RBLN-0060TAZZY	AB		R	Balun, BLN-0060TA
FB1909	RBLN-0210TAZZY	AB		R	Balun, BLN-0210TA
FB2301	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FB2302	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FB2305	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FB2306	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FB2307	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FB2308	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FB2309	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FB2310	RBLN-0210TAZZY	AB		R	Balun, BLN-0210TA
FB2702	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB2703	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB2704	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FB2705	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FB2706	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FB2707	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FB2708	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FB2709	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FB2710	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FB2711	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FB2713	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB2715	RBLN-0210TAZZY	AB		R	Balun, BLN-0210TA
FB3001	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3002	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3003	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3004	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3005	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3006	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3007	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3008	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3009	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3010	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3011	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3012	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3013	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3014	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3015	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3016	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3018	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3020	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FB3307	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FB3308	RBLN-0061TAZZY	AD		R	Balun, BLN-0061TA
FL2301	RFiLN0003TAZZY	AD		R	Filter
FL2302	RFiLN0003TAZZY	AD		R	Filter
FL2303	RFiLN0003TAZZY	AD		R	Filter

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD890FM20 (MAIN Unit)					
IC1701	VHiBU4239G+-1Y	AE		R	IC, BU4239G-TR
IC1702	VHiPQ20WZ11-1Y	AF		R	IC, PQ20WZ1UJ00H
IC1703	VHiPQ20WZ11-1Y	AF		R	IC, PQ20WZ1UJ00H
IC1706	VHiMP1410ES-1Y	AP		R	IC, MP1410ES-LF-Z
IC1707	VHiPQ20WZ11-1Y	AF		R	IC, PQ20WZ1UJ00H
IC1708	VHiMP1410ES-1Y	AP		R	IC, MP1410ES-LF-Z
IC1709	VSSSM6J51TU-1Y	AF		R	IC, SSM6J51TU
IC1710	RH-iXB823WJZZQ	AR	S	R	IC, EPM240T100C5N
IC1711	VHiPQ1R50//-1Y	AF		R	IC, PQ1R50J0000H
IC1901	VHi24LC2BiNEES			J	IC, EDID HDMI
IC1905	VHiSii9023+-1Q	BD		R	IC, Sil9023CTU
IC2301	VHiiSL83220-1Y	AQ		R	IC, ISL83220ECVZ-T
IC2303	RH-iXB731WJZZS			J	IC, EDID PC
IC2701	VHiTVHC153T-1Y	AE		R	IC, TC74VHC153FT(EL,M)
IC2702	VHiMM1507XN-1Y	AD		R	IC, MM1507XNRE
IC2704	VHiTC4052BT-1Y	AF		R	IC, TC4052BT
IC2705	VHiMM1507XN-1Y	AD		R	IC, MM1507XNRE
IC3001	VHiBR24L64F-1Y	AK		R	IC, BR24L64F-WE2
IC3002	RH-iXB624WJN1Q	BR	N	R	IC, VCT6973G-FA-B3
IC3003	RH-iXB664WJZZY	AY		R	IC, PIC16F913-I/SS-G-GW902T
IC3005	VHiBU4215G+-1Y	AE		R	IC, BU4215G-TR
J2701	QJAKEA073WJZZ	AD		R	Jack, HDMI Input
J2702	QJAKEA073WJZZ	AD		R	Jack, HDMI Input
L1701	RCiLPA213WJZZY	AG		R	Coil, Peaking 15μH
L1702	RCiLPA213WJZZY	AG		R	Coil, Peaking 15μH
L1901	RCiLFA134WJZZY	AF		R	Coil
L1902	RCiLFA134WJZZY	AF		R	Coil
L1903	RCiLFA134WJZZY	AF		R	Coil
L1904	RCiLFA134WJZZY	AF		R	Coil
L2301	RCiLFA071WJZZY	AD		R	Coil
L2302	RCiLFA071WJZZY	AD		R	Coil
L2303	RCiLFA071WJZZY	AD		R	Coil
L2304	RCiLFA071WJZZY	AD		R	Coil
L2305	RCiLFA071WJZZY	AD		R	Coil
L2701	VPCUN1R5MR12NY	AC		R	Coil, Peaking 0.12μH
LUG1701	QLUGHA006WJZZY	AC		R	Lug
LUG1702	QLUGHA006WJZZY	AC		R	Lug
LUG1703	QLUGHA006WJZZY	AC		R	Lug
LUG1704	QLUGHA006WJZZY	AC		R	Lug
P1701	QPLGNA342WJZZY	AD		R	Plug
P2301	QPLGNA341WJZZY	AD		R	Plug, 7Pin(SH)
P2302	QPLGNA337WJZZY	AC		R	Plug, 3Pin(KM)
P2303	QPLGNA344WJZZY	AD		R	Plug, 10Pin(RA)
P2305	QPLGNA522WJQZY	AL		R	Plug, 32Pin(LV)
P2306	QPLGN0565FJZZY	AE		R	Plug, 3Pin
P2702	QCNCMA202WJZZY	AK		R	Connector
Q1703	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q1704	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q1705	VS2SA1530AR-1Y	AB		R	Transistor, 2SA1530A-T112-1R
Q1706	VSCPH6318++-1Y	AE		R	Transistor, CPH6318-TL-E
Q1707	VSCPH6318++-1Y	AE		R	Transistor, CPH6318-TL-E
Q1901	VS2SK536///-1Y	AE		R	Transistor, 2SK536-TB-E
Q1903	VS2SK536///-1Y	AE		R	Transistor, 2SK536-TB-E
Q1905	VSDTC144EE/-1Y	AA		R	Transistor, DTC144EETL
Q1907	VSDTC144EE/-1Y	AA		R	Transistor, DTC144EETL
Q1909	VSDTC144EE/-1Y	AA		R	Transistor, DTC144EETL
Q2702	VS3LN01S///-1Y	AC		R	Transistor, 3LN01S-TL-E
Q2703	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q2704	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q2705	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q2706	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q2707	VSDTC144EE/-1Y	AA		R	Transistor, DTC144EETL
Q2708	VSDTC144EE/-1Y	AA		R	Transistor, DTC144EETL
Q2709	VS3LN01S///-1Y	AC		R	Transistor, 3LN01S-TL-E
Q2710	VS3LN01S///-1Y	AC		R	Transistor, 3LN01S-TL-E
Q3003	VS3LN01S///-1Y	AC		R	Transistor, 3LN01S-TL-E
Q3004	VS3LN01S///-1Y	AC		R	Transistor, 3LN01S-TL-E
R1704	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R1705	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R1707	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R1709	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R1711	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R1712	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R1713	VRS-CY1JF562JY	AA		R	Resistor, 5.6k 1/16W Metal Oxide
R1714	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R1715	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R1716	VRS-CY1JF562JY	AA		R	Resistor, 5.6k 1/16W Metal Oxide
R1717	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R1718	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R1719	VRS-CY1JF622FY	AA		R	Resistor, 6.2k 1/16W Metal Oxide
R1720	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R1721	VRS-CY1JF562FY	AA		R	Resistor, 5.6k 1/16W Metal Oxide
R1722	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R1723	VRS-CY1JF622FY	AA		R	Resistor, 6.2k 1/16W Metal Oxide
R1724	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD890FM20 (MAIN Unit)					
R1726	VRS-CY1JF511FY	AA		R	Resistor, 510 1/16W Metal Oxide
R1727	VRS-CY1JF332JY	AA		R	Resistor, 3.3k 1/16W Metal Oxide
R1728	VRS-CY1JF332JY	AA		R	Resistor, 3.3k 1/16W Metal Oxide
R1729	VRS-CY1JF202FY	AA		R	Resistor, 2k 1/16W Metal Oxide
R1730	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R1731	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R1732	VRS-CY1JF202FY	AA		R	Resistor, 2k 1/16W Metal Oxide
R1733	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R1734	VRS-CY1JF222FY	AA		R	Resistor, 2.2k 1/16W Metal Oxide
R1735	VRS-CY1JF202FY	AA		R	Resistor, 2k 1/16W Metal Oxide
R1736	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R1737	VRS-CY1JF562JY	AA		R	Resistor, 5.6k 1/16W Metal Oxide
R1739	VRS-TW2HF1R0JY	AA		R	Resistor, 1 1/2W Metal Oxide
R1740	VRS-TW2HF1R0JY	AA		R	Resistor, 1 1/2W Metal Oxide
R1741	VRS-TW2HF1R0JY	AA		R	Resistor, 1 1/2W Metal Oxide
R1742	VRS-TW2HF1R0JY	AA		R	Resistor, 1 1/2W Metal Oxide
R1743	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R1744	VRS-CY1JF562FY	AA		R	Resistor, 5.6k 1/16W Metal Oxide
R1745	VRS-CY1JF132JY	AG		R	Resistor, 1.3k 1/16W Metal Oxide
R1746	VRS-CY1JF202JY	AA		R	Resistor, 2k 1/16W Metal Oxide
R1747	VRS-CY1JF511FY	AA		R	Resistor, 510 1/16W Metal Oxide
R1748	VRS-CY1JF202FY	AA		R	Resistor, 2k 1/16W Metal Oxide
R1752	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R1753	VRS-CY1JF622FY	AA		R	Resistor, 6.2k 1/16W Metal Oxide
R1754	VRS-CY1JF622FY	AA		R	Resistor, 6.2k 1/16W Metal Oxide
R1755	VRS-CY1JF562JY	AA		R	Resistor, 5.6k 1/16W Metal Oxide
R1756	VRS-CY1JF104JY	AA		R	Resistor, 100k 1/16W Metal Oxide
R1757	VRS-TW2HF1R0JY	AA		R	Resistor, 1 1/2W Metal Oxide
R1758	VRS-TW2HF1R0JY	AA		R	Resistor, 1 1/2W Metal Oxide
R1759	VRS-TW2HF1R0JY	AA		R	Resistor, 1 1/2W Metal Oxide
R1760	VRS-TW2HF1R0JY	AA		R	Resistor, 1 1/2W Metal Oxide
R1761	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R1762	VRS-CY1JF220JY	AA		R	Resistor, 22 1/16W Metal Oxide
R1763	VRS-CY1JF220JY	AA		R	Resistor, 22 1/16W Metal Oxide
R1764	VRS-CY1JF220JY	AA		R	Resistor, 22 1/16W Metal Oxide
R1767	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R1768	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R1769	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R1770	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R1771	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R1772	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R1901	VRS-CY1JF272JY	AA		R	Resistor, 2.7k 1/16W Metal Oxide
R1903	VRS-CY1JF152JY	AA		R	Resistor, 1.5k 1/16W Metal Oxide
R1906	VRS-CY1JF473JY	AA		R	Resistor, 47k 1/16W Metal Oxide
R1908	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R1911	VRS-CJ1JF474JY	AA		R	Resistor, 470k 1/16W Metal Oxide
R1913	VRS-CJ1JF473JY	AB		R	Resistor, 47k 1/16W Metal Oxide
R1914	VRS-CJ1JF100JY	AA		R	Resistor, 10 1/16W Metal Oxide
R1917	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R1919	VRS-CY1JF100JY	AA		R	Resistor, 10 1/16W Metal Oxide
R1920	VRS-CH1JF100JY	AA		R	Resistor, 10 1/16W Metal Oxide
R1921	VRS-CH1JF100JY	AA		R	Resistor, 10 1/16W Metal Oxide
R1922	VRS-CH1JF100JY	AA		R	Resistor, 10 1/16W Metal Oxide
R1923	VRS-CH1JF100JY	AA		R	Resistor, 10 1/16W Metal Oxide
R1924	VRS-CH1JF100JY	AA		R	Resistor, 10 1/16W Metal Oxide
R1925	VRS-CH1JF100JY	AA		R	Resistor, 10 1/16W Metal Oxide
R1926	VRS-CY1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R1927	VRS-CH1JF100JY	AA		R	Resistor, 10 1/16W Metal Oxide
R1928	VRS-CY1JF223JY	AA		R	Resistor, 22k 1/16W Metal Oxide
R1929	VRS-CY1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R1930	VRS-CY1JF910FY	AA		R	Resistor, 91 1/16W Metal Oxide
R1931	VRS-CY1JF910FY	AA		R	Resistor, 91 1/16W Metal Oxide
R1932	VRS-CY1JF105JY	AA		R	Resistor, 1M 1/16W Metal Oxide
R1933	VRS-CY1JF152JY	AA		R	Resistor, 1.5k 1/16W Metal Oxide
R1934	VRS-CJ1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R1935	VRS-CY1JF330JY	AA		R	Resistor, 33 1/16W Metal Oxide
R1936	VRS-CY1JF330JY	AA		R	Resistor, 33 1/16W Metal Oxide
R1937	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R2301	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R2302	VRS-CH1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R2304	RBLN-0210TAZZY	AB		R	Balun, BLN-0210TA
R2305	VRS-CH1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R2306	RBLN-0210TAZZY	AB		R	Balun, BLN-0210TA
R2307	VRS-CJ1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R2309	VRS-CY1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R2313	VRS-CY1JF100JY	AA		R	Resistor, 10 1/16W Metal Oxide
R2314	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R2315	VRS-CJ1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R2321	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R2322	VRS-TW2ED750JY	AA		R	Resistor, 75 1/4W Metal Oxide
R2324	VRS-TW2ED750JY	AA		R	Resistor, 75 1/4W Metal Oxide
R2325	VRS-TW2ED750JY	AA		R	Resistor, 75 1/4W Metal Oxide
R2326	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R2329	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R2332	VRS-CY1JF473JY	AA		R	Resistor, 47k 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD890FM20 (MAIN Unit)					
R2333	VRS-CH1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R2334	VRS-CY1JF103FY	AA		R	Resistor, 10k 1/16W Metal Oxide
R2335	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R2339	VRS-CY1JF102FY	AA		R	Resistor, 1k 1/16W Metal Oxide
R2341	VRS-CY1JF393FY	AA		R	Resistor, 39k 1/16W Metal Oxide
R2342	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R2343	VRS-CY1JF102FY	AA		R	Resistor, 1k 1/16W Metal Oxide
R2701	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R2702	VRS-CJ1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R2703	VRS-CJ1JF473JY	AB		R	Resistor, 47k 1/16W Metal Oxide
R2704	VRS-CJ1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R2705	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R2706	VRS-CJ1JF224JY	AA		R	Resistor, 220k 1/16W Metal Oxide
R2707	VRS-CJ1JF224JY	AA		R	Resistor, 220k 1/16W Metal Oxide
R2708	VRS-CH1JF104JY	AA		R	Resistor, 100k 1/16W Metal Oxide
R2709	VRS-CH1JF104JY	AA		R	Resistor, 100k 1/16W Metal Oxide
R2710	VRS-CJ1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R2711	VRS-CJ1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R2712	VRS-CJ1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R2713	VRS-CJ1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R2714	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R2715	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R2716	VRS-CJ1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R2717	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R2719	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R2720	VRS-CY1JF104JY	AA		R	Resistor, 100k 1/16W Metal Oxide
R2721	VRS-CY1JF104JY	AA		R	Resistor, 100k 1/16W Metal Oxide
R2722	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R2723	VRS-CY1JF4R7JY	AA		R	Resistor, 4.7 1/16W Metal Oxide
R2724	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R3001	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R3002	VRS-CY1JF220JY	AA		R	Resistor, 22 1/16W Metal Oxide
R3003	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R3004	VRS-CJ1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R3005	VRS-CJ1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R3006	VRS-CY1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R3007	VRS-CY1JF622JY	AA		R	Resistor, 6.2k 1/16W Metal Oxide
R3008	VRS-CJ1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R3009	VRS-CJ1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R3010	VRS-CY1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R3012	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R3013	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R3014	VRS-CY1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R3017	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R3018	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R3306	VRS-CY1JF220JY	AA		R	Resistor, 22 1/16W Metal Oxide
R3307	VRS-CY1JF220JY	AA		R	Resistor, 22 1/16W Metal Oxide
R3308	VRS-CY1JF220JY	AA		R	Resistor, 22 1/16W Metal Oxide
SC1701	QCNCWA251WJZZY	AH		R	Connector, 23Pin
SC1702	QCNCWA248WJZZY	AD		R	Connector, 9Pin
SC1901	QSOCZA117WJZZQ	AK		R	Socket, 23Pin
SC2301	QSOCDA036WJZZ	AF		R	Socket, 12Pin
SC2303	QSOCNA229WJZZ	AH		R	Socket, 16Pin
SC2702	QCNCWA251WJZZY	AH		R	Connector, 23Pin
SC2703	QCNCWA251WJZZY	AH		R	Connector, 23Pin
SC2704	QCNCWA251WJZZY	AH		R	Connector, 23Pin
SC2705	QCNCWA010WJZZY	AE		R	Connector, 15Pin
SC2707	QCNCWA251WJZZY	AH		R	Connector, 23Pin
TH3002	VHHM1103J03-1Y	AC		R	Thermistor
X1901	RCRSCA108WJZZY	AF		R	Crystal, 28.322MHz
X3001	RCRSC0012CEZZY	AH		R	Crystal, 20.25MHz
[4] DUNTKD604FM20 (AV Unit)					
C301	VCKYCY1CB273KY	AB		R	Capacitor, 0.027 16V Ceramic
C302	VCKYCY1CB273KY	AB		R	Capacitor, 0.027 16V Ceramic
C303	VCKYCY1HF224ZY	AA		R	Capacitor, 0.22 50V Ceramic
C304	VCKYCY1HF224ZY	AA		R	Capacitor, 0.22 50V Ceramic
C305	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
C306	VCEASX1HN225MY	AB		R	Capacitor, 2.2 50V Electrolytic
C307	VCEASX1HN225MY	AB		R	Capacitor, 2.2 50V Electrolytic
C308	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
C309	VCKYCY1HB222KY	AA		R	Capacitor, 2200p 50V Ceramic
C310	VCKYCY1HB222KY	AA		R	Capacitor, 2200p 50V Ceramic
C311	VCEASX1CN226MY	AC		R	Capacitor, 22 16V Electrolytic
C312	VCKYCY1HB222KY	AA		R	Capacitor, 2200p 50V Ceramic
C313	VCKYCY1HB222KY	AA		R	Capacitor, 2200p 50V Ceramic
C314	VCKYCY1HB153KY	AA		R	Capacitor, 0.015 50V Ceramic
C315	VCKYCY1HB153KY	AA		R	Capacitor, 0.015 50V Ceramic
C316	VCCCCY1HH330JY	AA		R	Capacitor, 33p 50V Ceramic
C317	VCCCCY1HH330JY	AA		R	Capacitor, 33p 50V Ceramic
C318	VCCCCY1HH470JY	AA		R	Capacitor, 47p 50V Ceramic
C319	VCCCCY1HH470JY	AA		R	Capacitor, 47p 50V Ceramic
C320	VCEASX1HN225MY	AB		R	Capacitor, 2.2 50V Electrolytic
C321	VCEASX1HN225MY	AB		R	Capacitor, 2.2 50V Electrolytic
C322	VCKYCY1HF224ZY	AA		R	Capacitor, 0.22 50V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[4] DUNTKD604FM20 (AV Unit)					
C323	VCKYCY1HF224ZY	AA		R	Capacitor, 0.22 50V Ceramic
C324	VCEASX1HN106MY	AC		R	Capacitor, 10 50V Electrolytic
C325	VCEASX1HN106MY	AC		R	Capacitor, 10 50V Electrolytic
C326	VCKYCY1HB153KY	AA		R	Capacitor, 0.015 50V Ceramic
C327	VCKYCY1HB153KY	AA		R	Capacitor, 0.015 50V Ceramic
C328	VCEASX1HN225MY	AB		R	Capacitor, 2.2 50V Electrolytic
C329	VCEASX1HN225MY	AB		R	Capacitor, 2.2 50V Electrolytic
C330	VCESYA1VM477M+	AF	N	R	Capacitor, 470 35V Electrolytic
C331	VCESYA1VM477M+	AF	N	R	Capacitor, 470 35V Electrolytic
C332	VCKYCY1HB221KY	AA		R	Capacitor, 220p 50V Ceramic
C333	VCKYCY1HB221KY	AA		R	Capacitor, 220p 50V Ceramic
C334	VCKYCY1HB221KY	AA		R	Capacitor, 220p 50V Ceramic
C335	VCKYCY1HB221KY	AA		R	Capacitor, 220p 50V Ceramic
C338	RC-EZA513WJZZ	AH		R	Capacitor, 470 50V Electrolytic
C339	RC-EZA513WJZZ	AH		R	Capacitor, 470 50V Electrolytic
C340	VCKYTV1EB224KY	AA		R	Capacitor, 0.22 25V Ceramic
C341	VCKYTV1EB224KY	AA		R	Capacitor, 0.22 25V Ceramic
C342	VCFYFA1HA334J+	AB		R	Capacitor, 0.33 50V
C343	VCFYFA1HA334J+	AB		R	Capacitor, 0.33 50V
C346	VCEASX1HN105MY	AB		R	Capacitor, 1 50V Electrolytic
C347	VCEASX1HN105MY	AB		R	Capacitor, 1 50V Electrolytic
C348	VCEASX1VN226MY	AC		R	Capacitor, 22 35V Electrolytic
C349	VCEASX1VN226MY	AC		R	Capacitor, 22 35V Electrolytic
C350	VCKYCY1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C351	VCKYCY1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C352	VCKYCY1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C353	VCKYCY1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C354	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C355	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C356	VCEASY1HN476MY	AD		R	Capacitor, 47 50V Electrolytic
C357	VCEASY1HN476MY	AD		R	Capacitor, 47 50V Electrolytic
C358	VCEASX1HN106MY	AC		R	Capacitor, 10 50V Electrolytic
C359	VCEASX1HN106MY	AC		R	Capacitor, 10 50V Electrolytic
C360	VCEASY1CN476MY	AC		R	Capacitor, 47 16V Electrolytic
C361	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C362	VCKYTV1EB224KY	AA		R	Capacitor, 0.22 25V Ceramic
C363	VCKYTV1EB224KY	AA		R	Capacitor, 0.22 25V Ceramic
C364	VCEASY1CN477MY	AD		R	Capacitor, 470 16V Electrolytic
C365	VCKYCY1HB222KY	AA		R	Capacitor, 2200p 50V Ceramic
C366	VCKYCY1HB222KY	AA		R	Capacitor, 2200p 50V Ceramic
C1101	VCKYTV1EB104KY	AB		R	Capacitor, 0.1 25V Ceramic
C1102	VCKYTV1EB104KY	AB		R	Capacitor, 0.1 25V Ceramic
C1103	VCKYTV1EB104KY	AB		R	Capacitor, 0.1 25V Ceramic
C1104	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1105	VCKYTV1EB104KY	AB		R	Capacitor, 0.1 25V Ceramic
C1106	VCKYTV1EB104KY	AB		R	Capacitor, 0.1 25V Ceramic
C1107	VCKYTV1EB104KY	AB		R	Capacitor, 0.1 25V Ceramic
C1108	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1109	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1110	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1114	VCKYCY1HB221KY	AA		R	Capacitor, 220p 50V Ceramic
C1116	VCKYCY1HB221KY	AA		R	Capacitor, 220p 50V Ceramic
C1117	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1118	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1119	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1120	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1121	VCKYTV1CB105KY	AC		R	Capacitor, 1 16V Ceramic
C1122	VCKYCY1HB331KY	AA		R	Capacitor, 330p 50V Ceramic
C1123	VCKYCY1HB331KY	AA		R	Capacitor, 330p 50V Ceramic
C1124	VCKYTV1CB105KY	AC		R	Capacitor, 1 16V Ceramic
C1125	VCKYCY1HB471KY	AA		R	Capacitor, 470p 50V Ceramic
C1126	VCKYCY1HB471KY	AA		R	Capacitor, 470p 50V Ceramic
C1127	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1128	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1130	VCEASY1CN477MY	AD		R	Capacitor, 470 16V Electrolytic
C1131	VCKYCY1HF103ZY	AA		R	Capacitor, 0.01 50V Ceramic
C1132	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1133	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1134	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1135	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1136	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1137	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1138	VCKYTV1CB105KY	AC		R	Capacitor, 1 16V Ceramic
C1139	VCKYCY1HB331KY	AA		R	Capacitor, 330p 50V Ceramic
C1140	VCKYCY1HB331KY	AA		R	Capacitor, 330p 50V Ceramic
C1142	VCKYTV1CB105KY	AC		R	Capacitor, 1 16V Ceramic
C1143	VCKYCY1HB471KY	AA		R	Capacitor, 470p 50V Ceramic
C1144	VCKYCY1HB471KY	AA		R	Capacitor, 470p 50V Ceramic
C1145	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1146	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1147	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C1148	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1157	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1158	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1159	VCKYCY1HF103ZY	AA		R	Capacitor, 0.01 50V Ceramic

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[4] DUNTKD604FM20 (AV Unit)					
C1160	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C1161	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1162	VCEASY1CN477MY	AD		R	Capacitor, 470 16V Electrolytic
C1201	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1202	VCKYCY1HF103ZY	AA		R	Capacitor, 0.01 50V Ceramic
C1203	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1204	VCCCCY1HH100DY	AA		R	Capacitor, 10p 50V Ceramic
C1205	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1206	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1207	VCCCCY1HH100DY	AA		R	Capacitor, 10p 50V Ceramic
C1208	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1210	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1211	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1212	VCKYTV1CB105KY	AC		R	Capacitor, 1 16V Ceramic
C1216	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1217	VCKYCY1HB102KY	AA		R	Capacitor, 1000p 50V Ceramic
C1218	VCKYTV1CB105KY	AC		R	Capacitor, 1 16V Ceramic
C1219	VCEASY1CN476MY	AC		R	Capacitor, 47 16V Electrolytic
C1220	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1221	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1222	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1223	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C1224	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1225	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
C1251	VCEASX1CN107MY	AC		R	Capacitor, 100 16V Electrolytic
C1252	VCKYTV1CB105KY	AC		R	Capacitor, 1 16V Ceramic
C1253	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
D306	VHD1SS390++-1Y	AB		R	Diode, 1SS390TE61
D307	VHD1SS390++-1Y	AB		R	Diode, 1SS390TE61
D308	VHD1SS390++-1Y	AB		R	Diode, 1SS390TE61
D309	VHD1SS390++-1Y	AB		R	Diode, 1SS390TE61
D310	VHD1SS390++-1Y	AB		R	Diode, 1SS390TE61
D311	RH-EXA103WJZZY	AB		R	Zener Diode, UDZSTE-1736B
D312	RH-EXA103WJZZY	AB		R	Zener Diode, UDZSTE-1736B
D313	RH-EX1026CEZZY	AB	N	R	Zener Diode, 3.9V
D314	RH-EXA101WJZZY	AB		R	Zener Diode, UDZSTE-1730B
D315	RH-EXA101WJZZY	AB		R	Zener Diode, UDZSTE-1730B
D316	RH-EXA101WJZZY	AB		R	Zener Diode, UDZSTE-1730B
D317	RH-EXA101WJZZY	AB		R	Zener Diode, UDZSTE-1730B
D318	VHD1SS390++-1Y	AB		R	Diode, 1SS390TE61
D1101	RH-EX1068CEZZY	AB	N	R	Zener Diode, EX1068CE
D1102	RH-EX1026CEZZY	AB	N	R	Zener Diode, 3.9V
D1103	RH-EX1026CEZZY	AB	N	R	Zener Diode, 3.9V
D1104	RH-EX1068CEZZY	AB	N	R	Zener Diode, EX1068CE
D1105	RH-EX1064CEZZY	AB	N	R	Zener Diode, EX1064CE
D1106	RH-EX1034CEZZY	AB	N	R	Zener Diode, EX1034CE
D1107	RH-EX1034CEZZY	AB	N	R	Zener Diode, EX1034CE
D1108	RH-EX1064CEZZY	AB	N	R	Zener Diode, EX1064CE
D1109	RH-EX1049CEZZY	AB	N	R	Zener Diode, EX1049CE
D1110	RH-EX1049CEZZY	AB	N	R	Zener Diode, EX1049CE
D1111	RH-EX1049CEZZY	AB	N	R	Zener Diode, EX1049CE
D1112	RH-EX1049CEZZY	AB	N	R	Zener Diode, EX1049CE
D1113	RH-EX1034CEZZY	AB	N	R	Zener Diode, EX1034CE
D1114	RH-EX1034CEZZY	AB	N	R	Zener Diode, EX1034CE
D1115	RH-EX1034CEZZY	AB	N	R	Zener Diode, EX1034CE
D1116	RH-EX1034CEZZY	AB	N	R	Zener Diode, EX1034CE
D1117	RH-EX1034CEZZY	AB	N	R	Zener Diode, EX1034CE
D1118	RH-EX1026CEZZY	AB	N	R	Zener Diode, 3.9V
D1119	RH-EX1026CEZZY	AB	N	R	Zener Diode, 3.9V
D1120	RH-EX1026CEZZY	AB	N	R	Zener Diode, 3.9V
D1121	RH-EX1026CEZZY	AB	N	R	Zener Diode, 3.9V
D1122	RH-EX1026CEZZY	AB	N	R	Zener Diode, 3.9V
D1123	RH-EX1026CEZZY	AB	N	R	Zener Diode, 3.9V
D1201	RH-EX1239CEZZY	AB		R	Zener Diode, , EX1239CE
FB1101	RBLN-0062TAZZY	AB		R	Balun, BLN-0062TA
FB1102	RBLN-0062TAZZY	AB		R	Balun, BLN-0062TA
FB1103	RBLN-0077TAZZY	AB		R	Balun, BLN-0077TA
FB1104	RBLN-0077TAZZY	AB		R	Balun, BLN-0077TA
FB1105	RBLN-0051TAZZY	AC		R	Balun, BLN-0051TA
FB1106	RBLN-0062TAZZY	AB		R	Balun, BLN-0062TA
FB1107	RBLN-0051TAZZY	AC		R	Balun, BLN-0051TA
FB1108	RBLN-0062TAZZY	AB		R	Balun, BLN-0062TA
FB1109	RBLN-0062TAZZY	AB		R	Balun, BLN-0062TA
FB1110	RBLN-0062TAZZY	AB		R	Balun, BLN-0062TA
FB1111	RBLN-0051TAZZY	AC		R	Balun, BLN-0051TA
FB1112	RBLN-0051TAZZY	AC		R	Balun, BLN-0051TA
FB1201	RBLN-0051TAZZY	AC		R	Balun, BLN-0051TA
FB1202	RBLN-0051TAZZY	AC		R	Balun, BLN-0051TA
FB1203	RBLN-0062TAZZY	AB		R	Balun, BLN-0062TA
FB1204	RBLN-0062TAZZY	AB		R	Balun, BLN-0062TA
FB1213	RBLN-0210TAZZY	AB		R	Balun, BLN-0210TA
FB1218	RBLN-0254TAZZY	AB		R	Balun, BLN-0254TA
FL1101	RFiLN0017TAZZY	AC		R	Filter
FL1102	RFiLN0017TAZZY	AC		R	Filter
FL1103	RFiLN0017TAZZY	AC		R	Filter

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[4] DUNTKD604FM20 (AV Unit)					
FL1104	RFiLN0017TAZZY	AC		R	Filter
FL1105	RFiLN0017TAZZY	AC		R	Filter
FL1106	RFiLN0017TAZZY	AC		R	Filter
FL1107	RFiLN0017TAZZY	AC		R	Filter
FL1108	RFiLN0017TAZZY	AC		R	Filter
FL1109	RFiLN0017TAZZY	AC		R	Filter
FL1110	RFiLN0017TAZZY	AC		R	Filter
FL1211	RFiLN0017TAZZY	AC		R	Filter
FL1212	RFiLN0017TAZZY	AC		R	Filter
IC301	VHiTDA8931T-1Y	AS	N	R	IC, TDA8931T/N1,118
IC302	VHiTDA8931T-1Y	AS	N	R	IC, TDA8931T/N1,118
IC303	VHiNJM4558M-1Y	AD		R	IC, NJM4558M-TE1
IC1101	VHiMM1506XN-1Y	AD		R	IC, MM1506XNRE
IC1102	VHiMM1506XN-1Y	AD		R	IC, MM1506XNRE
IC1201	VHiMM1507XN-1Y	AD		R	IC, MM1507XNRE
J1101	QSOCZA116WJZZ	AK	N	R	Socket
J1201	QJAKZA033WJZZ	AK	N	R	Jack, 16Pin
J1301	QJAKJA007WJZZ	AD		R	Jack, Headphone Out
L301	RCiLPA386WJZZ	AF		R	Coil, Peaking 47μH
L302	RCiLPA386WJZZ	AF		R	Coil, Peaking 47μH
LUG301	QLUGHA009WJZZY	AC		R	Lug
LUG302	QLUGHA009WJZZY	AC		R	Lug
LUG303	QLUGHA009WJZZY	AC		R	Lug
LUG304	QLUGHA009WJZZY	AC		R	Lug
P301	QPLGNA173WJZZY	AD		R	Plug, 4Pin (SP)
P1101	QCNCMA250WJZZ	AE		R	Connector, 23Pin
P1102	QCNCMA250WJZZ	AE		R	Connector, 23Pin
P1201	QCNCMA250WJZZ	AE		R	Connector, 23Pin
Q301	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q302	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q303	VSDTC314TK/-1Y	AC		R	Transistor, DTC314TKT146
Q304	VSDTC314TK/-1Y	AC		R	Transistor, DTC314TKT146
Q307	VS2SA1530AR-1Y	AB		R	Transistor, 2SA1530A-T112-1R
Q1101	VSDTC314TK/-1Y	AC		R	Transistor, DTC314TKT146
Q1102	VSDTC314TK/-1Y	AC		R	Transistor, DTC314TKT146
Q1103	VS2SA1530AR-1Y	AB		R	Transistor, 2SA1530A-T112-1R
Q1104	VS2SA1530AR-1Y	AB		R	Transistor, 2SA1530A-T112-1R
Q1105	VSDTC314TK/-1Y	AC		R	Transistor, DTC314TKT146
Q1106	VSDTC314TK/-1Y	AC		R	Transistor, DTC314TKT146
Q1107	VS2SA1530AR-1Y	AB		R	Transistor, 2SA1530A-T112-1R
Q1108	VS2SA1530AR-1Y	AB		R	Transistor, 2SA1530A-T112-1R
Q1201	VS2SA1530AR-1Y	AB		R	Transistor, 2SA1530A-T112-1R
Q1202	VS2SA1530AR-1Y	AB		R	Transistor, 2SA1530A-T112-1R
Q1203	VSDTC314TK/-1Y	AC		R	Transistor, DTC314TKT146
Q1204	VSDTC314TK/-1Y	AC		R	Transistor, DTC314TKT146
R301	VRS-CJ1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R302	VRS-CJ1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R303	VRS-CY1JF222JY	AA		R	Resistor, 2.2k 1/16W Metal Oxide
R304	VRS-CY1JF222JY	AA		R	Resistor, 2.2k 1/16W Metal Oxide
R305	VRS-CY1JF222JY	AA		R	Resistor, 2.2k 1/16W Metal Oxide
R306	VRS-CJ1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R307	VRS-CJ1JF104JY	AA		R	Resistor, 100k 1/16W Metal Oxide
R308	VRS-CY1JF473JY	AA		R	Resistor, 47k 1/16W Metal Oxide
R309	VRS-CY1JF473JY	AA		R	Resistor, 47k 1/16W Metal Oxide
R310	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R311	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R312	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R313	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R314	VRS-CY1JF392JY	AA		R	Resistor, 3.9k 1/16W Metal Oxide
R315	VRS-CY1JF474JY	AA		R	Resistor, 470k 1/16W Metal Oxide
R316	VRS-CY1JF392JY	AA		R	Resistor, 3.9k 1/16W Metal Oxide
R317	VRS-CY1JF474JY	AA		R	Resistor, 470k 1/16W Metal Oxide
R318	VRS-TW2HF820JY	AB	N	R	Resistor, 82 1/2W Metal Oxide
R319	VRS-CY1JF122JY	AA		R	Resistor, 1.2k 1/16W Metal Oxide
R320	VRS-CY1JF122JY	AA		R	Resistor, 1.2k 1/16W Metal Oxide
R321	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R322	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R323	VRS-CY1JF473JY	AA		R	Resistor, 47k 1/16W Metal Oxide
R324	VRS-CY1JF473JY	AA		R	Resistor, 47k 1/16W Metal Oxide
R325	VRS-CY1JF272JY	AA		R	Resistor, 2.7k 1/16W Metal Oxide
R326	VRS-CY1JF272JY	AA		R	Resistor, 2.7k 1/16W Metal Oxide
R327	VRS-CJ1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R328	VRS-CJ1JF392JY	AA		R	Resistor, 3.9k 1/16W Metal Oxide
R329	VRS-CY1JF682JY	AA		R	Resistor, 6.8k 1/16W Metal Oxide
R330	VRS-CY1JF222JY	AA		R	Resistor, 2.2k 1/16W Metal Oxide
R331	VRS-CY1JF222JY	AA		R	Resistor, 2.2k 1/16W Metal Oxide
R333	VRS-CJ1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R334	VRS-CY1JF682JY	AA		R	Resistor, 6.8k 1/16W Metal Oxide
R335	VRS-TW2ED100JY	AA		R	Resistor, 10 1/4W Metal Oxide
R336	VRS-TW2ED100JY	AA		R	Resistor, 10 1/4W Metal Oxide
R337	VRS-TW2ED100JY	AA		R	Resistor, 10 1/4W Metal Oxide
R338	VRS-TW2ED100JY	AA		R	Resistor, 10 1/4W Metal Oxide
R339	VRS-TW2ED220JY	AB		R	Resistor, 22 1/4W Metal Oxide
R340	VRS-TW2ED220JY	AB		R	Resistor, 22 1/4W Metal Oxide
R343	VRS-TW2ED000JY	AB		R	Resistor, 0 1/4W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[4] DUNTKD604FM20 (AV Unit)					
R345	VRS-CJ1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R346	VRS-CY1JF560JY	AA		R	Resistor, 56 1/16W Metal Oxide
R347	VRS-CY1JF560JY	AA		R	Resistor, 56 1/16W Metal Oxide
R349	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R350	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R351	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R352	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R353	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R354	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R355	VRS-TW2ED2R7JY	AB		R	Resistor, 2.7 1/4W Metal Oxide
R356	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R358	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R360	VRS-CY1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R1101	VRS-CY1JF153FY	AA		R	Resistor, 15k 1/16W Metal Oxide
R1102	VRS-CY1JF153FY	AA		R	Resistor, 15k 1/16W Metal Oxide
R1103	VRS-CY1JF393FY	AA		R	Resistor, 39k 1/16W Metal Oxide
R1104	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R1105	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R1106	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R1107	VRS-TV1JD221JY	AA		R	Resistor, 220 1/16W Metal Oxide
R1108	VRS-CY1JF393FY	AA		R	Resistor, 39k 1/16W Metal Oxide
R1109	VRS-TV1JD221JY	AA		R	Resistor, 220 1/16W Metal Oxide
R1110	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R1111	VRS-TW2ED680JY	AA		R	Resistor, 68 1/4W Metal Oxide
R1112	VRS-TW2ED680JY	AA		R	Resistor, 68 1/4W Metal Oxide
R1113	VRS-TW2ED750JY	AA		R	Resistor, 75 1/4W Metal Oxide
R1114	VRS-TW2ED750JY	AA		R	Resistor, 75 1/4W Metal Oxide
R1115	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R1116	VRS-TW2ED750JY	AA		R	Resistor, 75 1/4W Metal Oxide
R1117	VRS-TW2ED750JY	AA		R	Resistor, 75 1/4W Metal Oxide
R1118	VRS-TW2ED750JY	AA		R	Resistor, 75 1/4W Metal Oxide
R1119	VRS-TW2ED101JY	AA		R	Resistor, 100 1/4W Metal Oxide
R1120	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R1121	VRS-TW2ED750JY	AA		R	Resistor, 75 1/4W Metal Oxide
R1123	VRS-TW2ED750JY	AA		R	Resistor, 75 1/4W Metal Oxide
R1125	VRS-TW2ED750JY	AA		R	Resistor, 75 1/4W Metal Oxide
R1126	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R1127	VRS-TW2ED750JY	AA		R	Resistor, 75 1/4W Metal Oxide
R1128	VRS-TW2ED101JY	AA		R	Resistor, 100 1/4W Metal Oxide
R1129	VRS-TW2ED750JY	AA		R	Resistor, 75 1/4W Metal Oxide
R1130	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R1131	VRS-CY1JF221JY	AA		R	Resistor, 220 1/16W Metal Oxide
R1134	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R1137	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R1138	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R1139	VRS-CJ1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R1140	VRS-CJ1JF331JY	AA		R	Resistor, 330 1/16W Metal Oxide
R1141	VRS-CY1JF564JY	AA		R	Resistor, 560k 1/16W Metal Oxide
R1142	VRS-CY1JF564JY	AA		R	Resistor, 560k 1/16W Metal Oxide
R1143	VRS-CJ1JF272JY	AA		R	Resistor, 2.7k 1/16W Metal Oxide
R1144	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R1145	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R1146	VRS-TV1JD221JY	AA		R	Resistor, 220 1/16W Metal Oxide
R1147	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R1148	VRS-TV1JD221JY	AA		R	Resistor, 220 1/16W Metal Oxide
R1150	VRS-CY1JF104JY	AA		R	Resistor, 100k 1/16W Metal Oxide
R1152	VRS-CJ1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R1153	VRS-CY1JF104JY	AA		R	Resistor, 100k 1/16W Metal Oxide
R1154	VRS-CY1JF104JY	AA		R	Resistor, 100k 1/16W Metal Oxide
R1155	VRS-CJ1JF331JY	AA		R	Resistor, 330 1/16W Metal Oxide
R1156	VRS-CY1JF564JY	AA		R	Resistor, 560k 1/16W Metal Oxide
R1157	VRS-CY1JF564JY	AA		R	Resistor, 560k 1/16W Metal Oxide
R1158	VRS-CJ1JF272JY	AA		R	Resistor, 2.7k 1/16W Metal Oxide
R1159	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R1160	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R1161	VRS-CY1JF221JY	AA		R	Resistor, 220 1/16W Metal Oxide
R1173	VRS-CY1JF104JY	AA		R	Resistor, 100k 1/16W Metal Oxide
R1177	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R1179	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R1201	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R1202	VRS-CY1JF392JY	AA		R	Resistor, 3.9k 1/16W Metal Oxide
R1203	VRS-CY1JF682JY	AA		R	Resistor, 6.8k 1/16W Metal Oxide
R1204	VRS-CY1JF750JY	AA		R	Resistor, 75 1/16W Metal Oxide
R1206	VRS-TW2ED750JY	AA		R	Resistor, 75 1/4W Metal Oxide
R1209	VRS-TW2ED750JY	AA		R	Resistor, 75 1/4W Metal Oxide
R1210	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R1211	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R1212	VRS-CY1JF104JY	AA		R	Resistor, 100k 1/16W Metal Oxide
R1213	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R1214	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R1215	VRS-CY1JF104JY	AA		R	Resistor, 100k 1/16W Metal Oxide
R1216	VRS-CY1JF271JY	AA		R	Resistor, 270 1/16W Metal Oxide
R1217	VRS-CY1JF331JY	AA		R	Resistor, 330 1/16W Metal Oxide
R1218	VRS-CY1JF272JY	AA		R	Resistor, 2.7k 1/16W Metal Oxide
R1219	VRS-CY1JF271JY	AA		R	Resistor, 270 1/16W Metal Oxide

	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
	[4] DUNTKD604FM20 (AV Unit)					
	R1221	VRS-CY1JF331JY	AA		R	Resistor, 330 1/16W Metal Oxide
	R1222	VRS-CY1JF272JY	AA		R	Resistor, 2.7k 1/16W Metal Oxide
	R1224	VRS-CY1JF564JY	AA		R	Resistor, 560k 1/16W Metal Oxide
	R1225	VRS-CY1JF564JY	AA		R	Resistor, 560k 1/16W Metal Oxide
	R1226	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
	R1227	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
	R1228	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
	SC301	QSOCZ0738CEZZ	AE		R	Socket, 7Pin
	[5] DUNTKD605FM18 (POWER Unit)					
⚠	C704	RC-FZA026WJZZ	AE		R	Capacitor, 0.47 275V
	C705	RC-EZA986WJZZ	AT	N	R	Capacitor
	C706	RC-EZA986WJZZ	AT	N	R	Capacitor
⚠	C708	RC-KZ0105GEZZ	AD		R	Capacitor, 2200p 250V Ceramic
⚠	C709	RC-KZ0105GEZZ	AD		R	Capacitor, 2200p 250V Ceramic
⚠	C712	RC-FZA026WJZZ	AE		R	Capacitor, 0.47 275V
	C713	RC-KZA388WJZZY	AC		R	Capacitor, 10 6.3V Ceramic
	C716	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
	C717	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
	C720	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
	C722	VCCCCY1HH470JY	AA		R	Capacitor, 47p 50V Ceramic
	C723	RC-EZA489WJZZ+	AC		R	Capacitor, 47 35V Electrolytic
	C725	RC-KZA304WJZZ	AD	N	R	Capacitor, 470p 2kV Ceramic
	C726	VCCCCY1HH101JY	AA		R	Capacitor, 100p 50V Ceramic
	C728	VCKYCY1HB332KY	AA		R	Capacitor, 3300p 50V Ceramic
	C730	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
	C732	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
	C733	VCKYCY1HB222KY	AA		R	Capacitor, 2200p 50V Ceramic
	C734	RC-KZA304WJZZ	AD	N	R	Capacitor, 470p 2kV Ceramic
	C735	RC-EZA489WJZZ+	AC		R	Capacitor, 47 35V Electrolytic
	C736	RC-EZA489WJZZ+	AC		R	Capacitor, 47 35V Electrolytic
	C739	VCCCCY1HH102JY	AB		R	Capacitor, 1000p 50V Ceramic
⚠	C740	RC-KZ0105GEZZ	AD		R	Capacitor, 2200p 250V Ceramic
⚠	C741	RC-KZ0105GEZZ	AD		R	Capacitor, 2200p 250V Ceramic
⚠	C742	RC-KZ0105GEZZ	AD		R	Capacitor, 2200p 250V Ceramic
	C743	RC-EZA513WJZZ	AH		R	Capacitor, 470 50V Electrolytic
	C744	RC-EZA499WJZZ	AH		R	Capacitor, 1200 35V Electrolytic
	C745	VCKYCY1HB472KY	AA		R	Capacitor, 4700p 50V Ceramic
	C749	VCKYTV1HB683KY	AB		R	Capacitor, 0.068 50V Ceramic
	C751	RC-EZA499WJZZ	AH		R	Capacitor, 1200 35V Electrolytic
	C752	RC-EZA452WJZZ	AG		R	Capacitor, 2200 10V Electrolytic
	C753	VCKYTV1HB683KY	AB		R	Capacitor, 0.068 50V Ceramic
	C754	RC-EZA510WJZZ	AF		R	Capacitor, 220 50V Electrolytic
	C755	RC-EZA499WJZZ	AH		R	Capacitor, 1200 35V Electrolytic
	C756	RC-EZA452WJZZ	AG		R	Capacitor, 2200 10V Electrolytic
	C757	RC-EZA480WJZZ	AD		R	Capacitor, 680 25V Electrolytic
	C758	RC-EZA490WJZZ+	AD		R	Capacitor, 100 35V Electrolytic
	C762	RC-EZA513WJZZ	AH		R	Capacitor, 470 50V Electrolytic
	C763	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
	C764	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
	C765	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
	C767	RC-EZA510WJZZ	AF		R	Capacitor, 220 50V Electrolytic
	C768	RC-EZA452WJZZ	AG		R	Capacitor, 2200 10V Electrolytic
	C771	VCKYCY1HB272KY	AA		R	Capacitor, 2700p 50V Ceramic
	C772	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
	C774	VCKYCY1CB104KY	AB		R	Capacitor, 0.1 16V Ceramic
	C776	RC-KZA213WJZZY	AC		R	Capacitor, 4.7 25V Ceramic
⚠	C777	RC-KZ0105GEZZ	AD		R	Capacitor, 2200p 250V Ceramic
⚠	C778	RC-KZ0105GEZZ	AD		R	Capacitor, 2200p 250V Ceramic
	C781	VCFYAA2JA103K+	AC	N	R	Capacitor, 0.01 630V
	C782	VCFYAA2JA103K+	AC	N	R	Capacitor, 0.01 630V
	C783	RC-KZA213WJZZY	AC		R	Capacitor, 4.7 25V Ceramic
	C789	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
	C790	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
	C792	VCKYCY1AB105KY	AB		R	Capacitor, 1 10V Ceramic
	C793	VCKYCY1CB104KY	AB		R	Capacitor, 0.1 16V Ceramic
	C794	RC-KZA388WJZZY	AC		R	Capacitor, 10 6.3V Ceramic
	C795	VCKYCY1AB105KY	AB		R	Capacitor, 1 10V Ceramic
	C796	VCKYCY1AB105KY	AB		R	Capacitor, 1 10V Ceramic
	C798	VCKYCY1CB104KY	AB		R	Capacitor, 0.1 16V Ceramic
	C799	VCKYCY1CB104KY	AB		R	Capacitor, 0.1 16V Ceramic
	C800	VCKYCY1CB104KY	AB		R	Capacitor, 0.1 16V Ceramic
	C801	VCKYCY1CB104KY	AB		R	Capacitor, 0.1 16V Ceramic
	C804	VCKYCY1CB104KY	AB		R	Capacitor, 0.1 16V Ceramic
⚠	D701	RH-DX0477CEZZ	AF		R	Diode, D5SB60
	D707	VHD1SS355//-1Y	AB		R	Diode, 1SS355TE-17
	D714	RH-EX1398CEZZY	AB		R	Zener Diode, UDZSTE-178.2B
	D715	VHDD1FL20U/-1Y	AC		R	Diode, D1FL20U
	D716	VHDU05NU44+-1Y	AE		R	Diode, U05NU44(TE12L,Q)
	D717	VHDD1FL20U/-1Y	AC		R	Diode, D1FL20U
	D718	RH-EXA091WJZZY	AB		R	Zener Diode, UDZSTE-1711B
	D720	VHDU05NU44+-1Y	AE		R	Diode, U05NU44(TE12L,Q)
	D721	RH-EXA096WJZZY	AB		R	Zener Diode, UDZSTE-1718B
	D722	VHD1SS355//-1Y	AB		R	Diode, 1SS355TE-17

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[5] DUNTKD605FM18 (POWER Unit)					
D724	VHDD1FL20U/-1Y	AC		R	Diode, D1FL20U
D725	VHDD1FL20U/-1Y	AC		R	Diode, D1FL20U
D726	VHDD1FL20U/-1Y	AC		R	Diode, D1FL20U
D728	VHEST03D170-1	AG	N	R	Zener Diode, HEST03D170
D729	VHEST03D170-1	AG	N	R	Zener Diode, HEST03D170
⚠ D730	RH-FXA003WJZZ	AD		R	Photo Coupler, PC123Y82
⚠ D731	RH-FXA003WJZZ	AD		R	Photo Coupler, PC123Y82
⚠ D732	RH-FXA003WJZZ	AD		R	Photo Coupler, PC123Y82
⚠ D733	RH-FXA003WJZZ	AD		R	Photo Coupler, PC123Y82
⚠ D734	RH-FXA003WJZZ	AD		R	Photo Coupler, PC123Y82
D735	VHDSF6L20U+-1	AG		R	Diode, SF6L20U
D736	RH-DXA080WJZZ	AK		R	Diode, SF20JC10-7100
D737	RH-DXA081WJZZ	AH		R	Diode, D15SCA4M-7000
D738	RH-DXA088WJZZY	AD	N	R	Diode, D1FL40-5063
D739	RH-DXA085WJZZ	AK	N	R	Diode, D5S9M-7000
D741	RH-EX1398CEZZY	AB		R	Zener Diode, UDZSTE-178.2B
D742	VHD1SS355//-1Y	AB		R	Diode, 1SS355TE-17
D746	RH-EXA102WJZZY	AB		R	Zener Diode, UDZSTE-1733B
D747	VHD1SS355//-1Y	AB		R	Diode, 1SS355TE-17
D748	RH-EXA094WJZZY	AB		R	Zener Diode, UDZSTE-1715B
D749	RH-EX1400CEZZY	AB		R	Zener Diode, UDZSTE-1710B
D751	RH-EX1398CEZZY	AB		R	Zener Diode, UDZSTE-178.2B
D752	VHD1SS355//-1Y	AB		R	Diode, 1SS355TE-17
D753	RH-EXA094WJZZY	AB		R	Zener Diode, UDZSTE-1715B
D754	RH-EXA101WJZZY	AB		R	Zener Diode, UDZSTE-1730B
D755	VHD1SS355//-1Y	AB		R	Diode, 1SS355TE-17
D756	RH-EXA101WJZZY	AB		R	Zener Diode, UDZSTE-1730B
D757	VHD1SS355//-1Y	AB		R	Diode, 1SS355TE-17
D759	RH-EXA101WJZZY	AB		R	Zener Diode, UDZSTE-1730B
D761	VHDD1FL20U/-1Y	AC		R	Diode, D1FL20U
D762	VHEST03D170-1	AG	N	R	Zener Diode, HEST03D170
D763	RH-EX1394CEZZY	AB		R	Zener Diode, UDZSTE-175.6B
D765	VHD1SS355//-1Y	AB		R	Diode, 1SS355TE-17
D767	VHD1SS355//-1Y	AB		R	Diode, 1SS355TE-17
D771	VHEST03D-82-1	AG	N	R	Zener Diode, HEST03D-82
D772	RH-EXA102WJZZY	AB		R	Zener Diode, UDZSTE-1733B
D773	VHD1SS355//-1Y	AB		R	Diode, 1SS355TE-17
D774	VHD1SS355//-1Y	AB		R	Diode, 1SS355TE-17
D775	VHD1SS355//-1Y	AB		R	Diode, 1SS355TE-17
D776	RH-EX1234CEZZY	AE		R	Zener Diode, HZU3.6B2TRF
D777	VHDU05NU44+-1Y	AE		R	Diode, U05NU44(TE12L,Q)
D778	VHDU05NU44+-1Y	AE		R	Diode, U05NU44(TE12L,Q)
D779	VHD1SS355//-1Y	AB		R	Diode, 1SS355TE-17
D780	RH-EX1015GEZZY	AD		R	Zener Diode, PTZTE2516B
D781	RH-EX1015GEZZY	AD		R	Zener Diode, PTZTE2516B
D782	RH-EXA359WJZZY	AE	N	R	Zener Diode, PTZTE2533B
D783	RH-EXA359WJZZY	AE	N	R	Zener Diode, PTZTE2533B
E701	LANGQA027WJFW	AE		R	Inlet Angle
⚠ F701	QFS-ZA007WJZZ	AC		R	Fuse, T4AL/250V
IC704	VHiMR4030++-1	AR		R	IC, MR4030-7101
IC705	VHiMR4020++-1	AQ		R	IC, MR4020-7101
IC706	VHiTA76431R-1Y	AE	N	R	IC, TA76431FR(TE12L,F)
IC707	VHiTA76431R-1Y	AE	N	R	IC, TA76431FR(TE12L,F)
IC708	VHiNJM2904M-1Y	AE		R	IC, NJM2904M-TE1
IC709	VHiNJM2903M-1Y	AE	N	R	IC, NJM2903M-TE1
⚠ L701	RCiLFA211WJZZ	AG	N	R	Coil
⚠ L702	RCiLF0024PEZZ	AN		R	Coil
L753	RCiLPA642WJZZ	AE	N	R	Coil
LUG701	QLUGHA002WJZZ	AB		R	Lug
LUG702	QLUGHA002WJZZ	AB		R	Lug
LUG703	QLUGHA002WJZZ	AB		R	Lug
LUG704	QLUGHA002WJZZ	AB		R	Lug
P701	QCNCMA250WJZZ	AE		R	Connector, 23Pin
P702	QCNCMA247WJZZ	AD		R	Connector, 9Pin
P703	QPLGZ0738CEZZ	AC		R	Plug, 7Pin
P704	QPLGNA053WJZZ	AF	N	R	Plug, 14Pin(LA)
Q702	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q704	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q708	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q710	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q712	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q713	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q721	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q723	RH-TXA037WJZZY	AE	N	R	Transistor, PBLS6003D,115
Q724	RH-TXA037WJZZY	AE	N	R	Transistor, PBLS6003D,115
Q726	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q729	VS2SD2185R+-1Y	AF	N	R	Transistor, 2SD21850RL
Q730	RH-TXA026WJZZY	AD		R	Transistor, PBLS2001D,115
Q731	RH-TXA026WJZZY	AD		R	Transistor, PBLS2001D,115
⚠ R701	RR-HZ0008GEZZY	AE	N	R	Resistor
⚠ R702	RR-HZ0008GEZZY	AE	N	R	Resistor
R727	VRS-TV1JD563JY	AA		R	Resistor, 56k 1/16W Metal Oxide
R730	VRS-TQ2EF124FY	AA	N	R	Resistor, 120k 1/4W Metal Oxide
R731	VRS-TQ2EF124FY	AA	N	R	Resistor, 120k 1/4W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[5] DUNTKD605FM18 (POWER Unit)					
R732	VRS-TQ2EF124FY	AA	N	R	Resistor, 120k 1/4W Metal Oxide
R740	VRS-TV1JD564JY	AA		R	Resistor, 560k 1/16W Metal Oxide
R741	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R742	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R743	VRS-CY1JF224JY	AA		R	Resistor, 220k 1/16W Metal Oxide
R745	VRS-TV1JD912JY	AA		R	Resistor, 9.1k 1/16W Metal Oxide
R746	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R747	VRS-TV1JD103FY	AA		R	Resistor, 10k 1/16W Metal Oxide
R748	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R751	VRN-VV3DBR10J	AB		R	Resistor, 0.1 2W Metal Film
R752	VRS-TV1JD000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R753	VRS-TV1JD133JY	AA		R	Resistor, 13k 1/16W Metal Oxide
R755	VRS-TV1JD203FY	AA		R	Resistor, 20k 1/16W Metal Oxide
R756	VRS-TV1JD183FY	AA		R	Resistor, 18k 1/16W Metal Oxide
R757	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R758	VRS-TV1JD564JY	AA		R	Resistor, 560k 1/16W Metal Oxide
R759	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R760	VRN-VV3DBR15J	AB		R	Resistor, 0.15 2W Metal Film
R761	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R764	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R765	VRS-TV1JD104JY	AA		R	Resistor, 100k 1/16W Metal Oxide
R766	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R767	VRS-TQ2EF391JY	AA		R	Resistor, 390 1/4W Metal Oxide
R770	VRS-TQ2BD000JY	AA		R	Resistor, 0 1/8W Metal Oxide
R773	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R774	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R775	VRS-TV1JD153FY	AA		R	Resistor, 15k 1/16W Metal Oxide
R776	VRS-TV1JD102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R777	VRS-TV1JD242FY	AA		R	Resistor, 2.4k 1/16W Metal Oxide
R778	VRS-TV1JD242FY	AA		R	Resistor, 2.4k 1/16W Metal Oxide
R779	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R780	VRS-TV1JD682JY	AA		R	Resistor, 6.8k 1/16W Metal Oxide
R781	VRS-TV1JD242FY	AA		R	Resistor, 2.4k 1/16W Metal Oxide
R782	VRS-TV1JD102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R783	VRS-TV1JD223JY	AA		R	Resistor, 22k 1/16W Metal Oxide
R784	VRS-TV1JD242JY	AA		R	Resistor, 2.4k 1/16W Metal Oxide
R785	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R787	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R788	VRS-TV1JD202FY	AA		R	Resistor, 2.0k 1/16W Metal Oxide
R789	VRS-TV1JD681FY	AA		R	Resistor, 680 1/16W Metal Oxide
R791	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R792	VRS-TV1JD272JY	AA		R	Resistor, 2.7k 1/16W Metal Oxide
R793	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R794	VRS-TV1JD821FY	AA		R	Resistor, 820 1/16W Metal Oxide
R795	VRS-TV1JD203FY	AA		R	Resistor, 20k 1/16W Metal Oxide
R796	VRS-TV1JD272JY	AA		R	Resistor, 2.7k 1/16W Metal Oxide
R797	VRS-TV1JD104FY	AA		R	Resistor, 100k 1/16W Metal Oxide
R801	VRS-CY1JF122JY	AA		R	Resistor, 1.2k 1/16W Metal Oxide
R805	VRS-TV1JD224JY	AA		R	Resistor, 220k 1/16W Metal Oxide
R809	VRS-CY1JF122JY	AA		R	Resistor, 1.2k 1/16W Metal Oxide
R812	VRS-CY1JF122JY	AA		R	Resistor, 1.2k 1/16W Metal Oxide
R817	VRS-TQ2EF122JY	AA		R	Resistor, 1.2k 1/4W Metal Oxide
R820	VRS-CY1JF122JY	AA		R	Resistor, 1.2k 1/16W Metal Oxide
R823	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R824	VRS-TQ2EF332JY	AA		R	Resistor, 3.3k 1/4W Metal Oxide
R825	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R828	VRS-TQ2EF220JY	AA		R	Resistor, 22 1/4W Metal Oxide
R831	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R833	VRS-TQ2EF223FY	AA	N	R	Resistor, 22k 1/4W Metal Oxide
R834	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R835	VRS-TQ2BD000JY	AA		R	Resistor, 0 1/8W Metal Oxide
R836	VRS-TV1JD103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R851	VRS-TQ2EF221JY	AA		R	Resistor, 220 1/4W Metal Oxide
R852	VRS-TQ2EF221JY	AA		R	Resistor, 220 1/4W Metal Oxide
R854	VRS-VV3DB102J	AA		R	Resistor, 1k 2W Metal Oxide
R857	VRS-TQ2BD000JY	AA		R	Resistor, 0 1/8W Metal Oxide
R858	VRS-TV1JD272JY	AA		R	Resistor, 2.7k 1/16W Metal Oxide
R859	VRS-CY1JF123JY	AA		R	Resistor, 12k 1/16W Metal Oxide
R860	VRS-CY1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R861	VRS-CY1JF272JY	AA		R	Resistor, 2.7k 1/16W Metal Oxide
R862	VRS-CY1JF272JY	AA		R	Resistor, 2.7k 1/16W Metal Oxide
R863	VRS-CY1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R864	VRS-CY1JF333JY	AA		R	Resistor, 33k 1/16W Metal Oxide
R865	VRS-CY1JF333JY	AA		R	Resistor, 33k 1/16W Metal Oxide
R866	VRS-CY1JF473JY	AA		R	Resistor, 47k 1/16W Metal Oxide
R867	VRS-CY1JF123JY	AA		R	Resistor, 12k 1/16W Metal Oxide
R868	VRS-CY1JF122JY	AA		R	Resistor, 1.2k 1/16W Metal Oxide
R869	VRS-CY1JF332JY	AA		R	Resistor, 3.3k 1/16W Metal Oxide
R870	VRS-CY1JF222JY	AA		R	Resistor, 2.2k 1/16W Metal Oxide
R871	VRS-CY1JF122JY	AA		R	Resistor, 1.2k 1/16W Metal Oxide
R872	VRS-CY1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R873	VRS-CY1JF122JY	AA		R	Resistor, 1.2k 1/16W Metal Oxide
R877	VRS-TQ2EF124FY	AA	N	R	Resistor, 120k 1/4W Metal Oxide
R878	VRS-TQ2EF124FY	AA	N	R	Resistor, 120k 1/4W Metal Oxide
⚠ RDA701	PRDARA323WJFW	AG	N	R	Heat Sink (for D701)

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[5] DUNTKD605FM18 (POWER Unit)					
RDA702	PRDARA306WJFW	AG	N	R	Heat Sink (for IC705)
RDA703	PRDARA340WJFW	AL	N	R	Heat Sink
RDA704	PRDARA308WJFW	AH	N	R	Heat Sink (for SUB-C)
RDA705	PRDARA309WJFW	AH	N	R	Heat Sink (for INV-C)
RDA706	PRDARA334WJFW	AF	N	R	Heat Sink
RJ1	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
RJ2	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
RJ3	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
RJ4	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
⚠ RY701	RRLYDA008WJZZ	AG		R	Relay
SC701	QSOCAA008WJZZ	AE	N	R	Socket
⚠ T701	RTRNWA230WJZZ	AP		R	Socket, 2Pin(AC Inlet)
⚠ T702	RTRNWA231WJZZ	AR		R	Transformer
⚠ T703	RTRNCA023WJZZ	AW	N	R	Transformer
⚠ TH701	RH-HXA033WJZZ	AG	N	R	Thermistor, 16D2-13LCS
⚠ VA701	RH-VXA071WJQZ	AD		R	Varista, ERZV10D471CS
⚠ VA702	RH-VXA071WJQZ	AD		R	Varista, ERZV10D471CS
N	LX-BZ3049GEF7	AA		R	Screw
N	LX-BZ3049GEF7	AA		R	Screw
N	LX-BZ3049GEF7	AA		R	Screw
N	LX-BZ3049GEF7	AA		R	Screw
N	LX-BZ3049GEF7	AA		R	Screw
N	LX-BZA165WJZZ	AB	N	R	Screw, x2 (for Inlet)
N	XBSSN30P06000	AA		R	Screw
[6] DUNTKD609FM16 (DIGITAL TUNER Unit)					
C201	VCEASX1AN336MY	AC		S	Capacitor, 33 10V Electrolytic
C202	VCCCCY1HH220JY	AA		S	Capacitor, 22p 50V Ceramic
C203	VCCCCY1HH220JY	AA		S	Capacitor, 22p 50V Ceramic
C204	VCEASX1CN477MY	AE		S	Capacitor, 470 16V Electrolytic
C205	VCKYCY1HF103ZY	AA		S	Capacitor, 0.01 50V Ceramic
C206	VCEASX1CN107MY	AC		S	Capacitor, 100 16V Electrolytic
C207	VCKYCY1HF103ZY	AA		S	Capacitor, 0.01 50V Ceramic
C215	VCKYCY1HF103ZY	AA		S	Capacitor, 0.01 50V Ceramic
C216	VCKYCY1HF103ZY	AA		S	Capacitor, 0.01 50V Ceramic
C217	VCEASX1HN106MY	AC		S	Capacitor, 10 50V Electrolytic
C218	VCKYCY1HB103KY	AA		S	Capacitor, 0.01 50V Ceramic
C219	VCKYCY1EF104ZY	AA		S	Capacitor, 0.1 25V Ceramic
C220	VCKYCY1HF103ZY	AA		S	Capacitor, 0.01 50V Ceramic
C221	VCEASX1CN107MY	AC		S	Capacitor, 100 16V Electrolytic
C222	VCKYCY1EF104ZY	AA		S	Capacitor, 0.1 25V Ceramic
C223	VCCCCY1HH391JY	AB		S	Capacitor, 390p 50V Ceramic
C224	VCKYTV1CB224KY	AB		S	Capacitor, 0.22 16V Ceramic
C225	VCKYCY1HB152KY	AA		S	Capacitor, 1500p 50V Ceramic
C226	VCEASX1AN227MY	AD		S	Capacitor, 220 10V Electrolytic
C227	VCKYCY1HF103ZY	AA		S	Capacitor, 0.01 50V Ceramic
C228	VCKYTV1CB474KY	AC		S	Capacitor, 0.47 16V Ceramic
C229	VCCCCY1HH120JY	AA		S	Capacitor, 12p 50V Ceramic
C230	VCEASX1HN106MY	AC		S	Capacitor, 10 50V Electrolytic
C231	VCKYCY1HF103ZY	AA		S	Capacitor, 0.01 50V Ceramic
C232	VCCCCY1HH330JY	AA		S	Capacitor, 33p 50V Ceramic
C233	VCKYCY1HB102KY	AA		S	Capacitor, 1000p 50V Ceramic
C234	VCKYCY1EF104ZY	AA		S	Capacitor, 0.1 25V Ceramic
C235	VCCCCY1HH150JY	AA		S	Capacitor, 15p 50V Ceramic
C236	VCKYCY1HF103ZY	AA		S	Capacitor, 0.01 50V Ceramic
C237	VCEASX1HN225MY	AB		S	Capacitor, 2.2 50V Electrolytic
C241	VCEASX1AN336MY	AC		S	Capacitor, 33 10V Electrolytic
C242	VCEASX1CN106MY	AC		S	Capacitor, 10 16V Electrolytic
C243	VCKYCY1EF104ZY	AA		S	Capacitor, 0.1 25V Ceramic
C244	VCEASX0JN226MY	AB		S	Capacitor, 22 6.3V Electrolytic
C245	VCKYCY1EF104ZY	AA		S	Capacitor, 0.1 25V Ceramic
C246	VCEASX1CN106MY	AC		S	Capacitor, 10 16V Electrolytic
C247	VCEASX1CN106MY	AC		S	Capacitor, 10 16V Electrolytic
C248	VCKYCY1HF103ZY	AA		S	Capacitor, 0.01 50V Ceramic
C249	VCEASX1CN106MY	AC		S	Capacitor, 10 16V Electrolytic
C250	VCKYCY1HF103ZY	AA		S	Capacitor, 0.01 50V Ceramic
C251	VCKYCY1HF103ZY	AA		S	Capacitor, 0.01 50V Ceramic
C252	VCEASX1CN106MY	AC		S	Capacitor, 10 16V Electrolytic
C253	VCKYCY1HF103ZY	AA		S	Capacitor, 0.01 50V Ceramic
C254	VCKYCY1HF103ZY	AA		S	Capacitor, 0.01 50V Ceramic
C255	VCKYCY1EF104ZY	AA		S	Capacitor, 0.1 25V Ceramic
C256	VCKYCY1EF104ZY	AA		S	Capacitor, 0.1 25V Ceramic
C257	VCKYCY1HB103KY	AA		S	Capacitor, 0.01 50V Ceramic
C258	VCKYCY1HB103KY	AA		S	Capacitor, 0.01 50V Ceramic
C259	VCCCCY1HH2R0CY	AA		S	Capacitor, 20p 50V Ceramic
C260	VCCCCY1HH150JY	AA		S	Capacitor, 15p 50V Ceramic
C261	VCEASX1CN106MY	AC		S	Capacitor, 10 16V Electrolytic
C262	VCKYCY1EF104ZY	AA		S	Capacitor, 0.1 25V Ceramic
C263	VCKYCY1EF104ZY	AA		S	Capacitor, 0.1 25V Ceramic
C266	VCKYCY1HF103ZY	AA		S	Capacitor, 0.01 50V Ceramic
C267	VCKYCY1HF103ZY	AA		S	Capacitor, 0.01 50V Ceramic
C268	VCKYCY1EB104KY	AB		S	Capacitor, 0.10 25V Ceramic
C269	VCKYCY1EB104KY	AB		S	Capacitor, 0.10 25V Ceramic
C270	VCAAPD0JJ227MY	AF		S	Capacitor, 220 6.3V Electrolytic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[6] DUNTKD609FM16 (DIGITAL TUNER Unit)					
C271	VCKYCY1HF103ZY	AA		S	Capacitor, 0.01 50V Ceramic
C272	VCKYCY1HB102KY	AA		S	Capacitor, 1000p 50V Ceramic
C273	VCAAPD0JJ227MY	AF		S	Capacitor, 220 6.3V Electrolytic
C274	VCKYCY1EF104ZY	AA		S	Capacitor, 0.1 25V Ceramic
C275	VCKYCY1EF104ZY	AA		S	Capacitor, 0.1 25V Ceramic
C276	VCKYCY1HB103KY	AA		S	Capacitor, 0.01 50V Ceramic
C279	RC-KZA073WJZZY	AD		S	Capacitor, 10 16V Ceramic
C281	VCCCCY1HH331JY	AA		S	Capacitor, 330p 50V Ceramic
D201	VHD1SS390++-1Y	AB		S	Diode, 1SS390TE61
D203	VHD1SS390++-1Y	AB		S	Diode, 1SS390TE61
D204	VHD1SS390++-1Y	AB		S	Diode, 1SS390TE61
D205	VHD1SS390++-1Y	AB		S	Diode, 1SS390TE61
D206	VHD1SS390++-1Y	AB		S	Diode, 1SS390TE61
D207	VHD1SS390++-1Y	AB		S	Diode, 1SS390TE61
FB201	RBLN-0210TAZZY	AB		S	Balun, BLN-0210TA
FL201	RFiLC0278BMZZ	AM		S	Filter
FL202	RFiLC0294BMZZ	AR		S	Filter
IC201	VHiTDA9886+-1Y	AV		S	IC, TDA9886TS/V4
IC202	RH-iXB682WJZZQ	AZ	N	S	IC, IXB682WJ
IC203	VHiTC7W53U/-1Y	AF		S	IC, TC7W53FU(TE12L,F)
IC204	VHiLV4053AT-1Y	AE		S	IC, LV4053AT
IC205	VHiPQ1M185M-1Y	AD		S	IC, Q1M185M
IC206	VHiMM3033E+-1Y	AD	N	S	IC, MM3033E
IC207	VSSSM6J51TU-1Y	AF		S	IC, SSM6J51TU
L203	VPCNN100J1R6NY	AB		S	Coil, Peaking 1.6μH
L204	VPCNN120J1R9NY	AB	N	S	Coil, Peaking 1.9μH
L205	VPCNN330J4R2NY	AC		S	Coil, Peaking 4.2μH
L206	VPCUN1R5MR12NY	AC	N	S	Coil, Peaking 0.12μH
L207	VPCNN2R2JR77NY	AB	N	S	Coil, Peaking 0.77μH
L208	VPCNN2R2JR77NY	AB	N	S	Coil, Peaking 0.77μH
L209	VPCNN2R2JR77NY	AB	N	S	Coil, Peaking 0.77μH
L210	VPCNN2R2JR77NY	AB	N	S	Coil, Peaking 0.77μH
L212	VPD9MR18JR21NY	AB	N	S	Coil, Peaking 0.21μH
L213	VPCKM330J3R9NY	AB		S	Coil, Peaking 3.9μH
LUG201	QLUGHA009WJZZY	AC		S	Lug
LUG202	QLUGHA009WJZZY	AC		S	Lug
LUG203	QLUGHA009WJZZY	AC		S	Lug
P201	QCNCMA012WJZZ	AD		S	Connector, 15Pin
P202	QCNCMA250WJZZ	AE		S	Connector, 23Pin
Q203	VS2SC3928AR-1Y	AB		S	Transistor, 2SC3928A-T112-1R
Q204	VS2SA1530AR-1Y	AB		S	Transistor, 2SA1530A-T112-1R
Q205	VSRN4904///-1Y	AB		S	Transistor, RN4904(TE85L,F)
Q209	VSRN4904///-1Y	AB		S	Transistor, RN4904(TE85L,F)
Q211	VSRN4904///-1Y	AB		S	Transistor, RN4904(TE85L,F)
R201	VRS-CY1JF104JY	AA		S	Resistor, 100k 1/16W Metal Oxide
R202	VRS-CY1JF681JY	AA		S	Resistor, 680 1/16W Metal Oxide
R203	VRS-CY1JF683JY	AA		S	Resistor, 68k 1/16W Metal Oxide
R204	VRS-CY1JF123JY	AA		S	Resistor, 12k 1/16W Metal Oxide
R205	VRS-CY1JF473JY	AA		S	Resistor, 47k 1/16W Metal Oxide
R206	VRS-CY1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
R207	VRS-CY1JF470JY	AA		S	Resistor, 47 1/16W Metal Oxide
R208	VRS-CY1JF470JY	AA		S	Resistor, 47 1/16W Metal Oxide
R209	VRS-CY1JF123JY	AA		S	Resistor, 12k 1/16W Metal Oxide
R211	VRS-CY1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
R213	VRS-CY1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
R214	VRS-TW2HF3R3JY	AA	N	S	Resistor, 3.3 1/2W Metal Oxide
R215	VRS-TW2HF330JY	AA		S	Resistor, 33 1/2W Metal Oxide
R219	VRS-CY1JF222JY	AA		S	Resistor, 2.2k 1/16W Metal Oxide
R223	VRS-CY1JF562JY	AA		S	Resistor, 5.6k 1/16W Metal Oxide
R224	VRS-CY1JF562JY	AA		S	Resistor, 5.6k 1/16W Metal Oxide
R226	VRS-CY1JF103JY	AA		S	Resistor, 10k 1/16W Metal Oxide
R227	VRS-CY1JF103JY	AA		S	Resistor, 10k 1/16W Metal Oxide
R228	VRS-CY1JF223JY	AA		S	Resistor, 22k 1/16W Metal Oxide
R229	VRS-CY1JF223JY	AA		S	Resistor, 22k 1/16W Metal Oxide
R230	VRS-CY1JF562JY	AA		S	Resistor, 5.6k 1/16W Metal Oxide
R231	VRS-TQ2BD330JY	AA		S	Resistor, 33 1/8W Metal Oxide
R232	VRS-CY1JF331JY	AA		S	Resistor, 330 1/16W Metal Oxide
R233	VRS-CY1JF821JY	AA		S	Resistor, 820 1/16W Metal Oxide
R234	VRS-CY1JF271JY	AA		S	Resistor, 270 1/16W Metal Oxide
R235	VRS-CY1JF101JY	AA		S	Resistor, 100 1/16W Metal Oxide
R236	VRS-CY1JF101JY	AA		S	Resistor, 100 1/16W Metal Oxide
R237	VRS-CY1JF331JY	AA		S	Resistor, 330 1/16W Metal Oxide
R238	VRS-CY1JF151JY	AA		S	Resistor, 150 1/16W Metal Oxide
R239	VRS-CY1JF101JY	AA		S	Resistor, 100 1/16W Metal Oxide
R240	VRS-CY1JF331JY	AA		S	Resistor, 330 1/16W Metal Oxide
R241	VRS-CY1JF103JY	AA		S	Resistor, 10k 1/16W Metal Oxide
R242	VRS-CY1JF392JY	AA		S	Resistor, 3.9k 1/16W Metal Oxide
R243	VRS-CY1JF101JY	AA		S	Resistor, 100 1/16W Metal Oxide
R244	VRS-CY1JF221JY	AA		S	Resistor, 220 1/16W Metal Oxide
R245	VRS-CH1JF103JY	AA		S	Resistor, 10k 1/16W Metal Oxide
R246	VRS-CY1JF681JY	AA		S	Resistor, 680 1/16W Metal Oxide
R247	VRS-CY1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
R248	VRS-CY1JF153JY	AA		S	Resistor, 15k 1/16W Metal Oxide
R251	VRS-CY1JF332JY	AA		S	Resistor, 3.3k 1/16W Metal Oxide
R255	VRS-CY1JF470JY	AA		S	Resistor, 47 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[6] DUNTKD609FM16 (DIGITAL TUNER Unit)					
R256	VRS-CY1JF470JY	AA		S	Resistor, 47 1/16W Metal Oxide
R259	VRS-CY1JF151JY	AA		S	Resistor, 150 1/16W Metal Oxide
R263	VRS-CJ1JF472JY	AA		S	Resistor, 4.7k 1/16W Metal Oxide
R264	VRS-CY1JF101JY	AA		S	Resistor, 100 1/16W Metal Oxide
R265	VRS-CY1JF101JY	AA		S	Resistor, 100 1/16W Metal Oxide
R266	VRS-CY1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
R267	VRS-CY1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
R268	VRS-CY1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
R269	VRS-CY1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
R270	VRS-CY1JF514JY	AA		S	Resistor, 510k 1/16W Metal Oxide
R271	VRS-CY1JF102JY	AA		S	Resistor, 1k 1/16W Metal Oxide
R272	VRS-CH1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
R273	VRS-CH1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
R274	VRS-CY1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
R275	VRS-TW2HF3R3JY	AA	N	S	Resistor, 3.3 1/2W Metal Oxide
R276	VRS-TW2HF3R3JY	AA	N	S	Resistor, 3.3 1/2W Metal Oxide
R281	VRS-CY1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
R282	VRS-CY1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
R283	VRS-CY1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
R284	VRS-CY1JF103JY	AA		S	Resistor, 10k 1/16W Metal Oxide
R285	VRS-CY1JF103JY	AA		S	Resistor, 10k 1/16W Metal Oxide
R288	VRS-CY1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
R289	VRS-CY1JF103JY	AA		S	Resistor, 10k 1/16W Metal Oxide
R290	VRS-CY1JF181JY	AA		S	Resistor, 180 1/16W Metal Oxide
R291	VRS-CY1JF332JY	AA		S	Resistor, 3.3k 1/16W Metal Oxide
R292	VRS-CY1JF332JY	AA		S	Resistor, 3.3k 1/16W Metal Oxide
R293	VRS-CY1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
R294	VRS-CY1JF000JY	AA		S	Resistor, 0 1/16W Metal Oxide
X201	RCRSAA029WJZZ	AF		S	Crystal
X202	RCRSCA039WJZZY	AG		S	Crystal
N	LHLDW1072GEZZ	AA		S	Wire Holder
N	PSLDMA898WJFW	AD	N	S	Tuner If Shield
[7] DUNTKD628FM11 (DIGITAL Unit)					
C4001	VCEASX1HN105MY	AB		R	Capacitor, 1 50V Electrolytic
C4002	VCKYCY1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C4003	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4004	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4005	VCKYCY1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C4006	VCCCCY1HH180JY	AA		R	Capacitor, 18p 50V Ceramic
C4007	VCCCCY1HH150JY	AA		R	Capacitor, 15p 50V Ceramic
C4008	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C4009	VCKYCY1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C4010	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4011	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4012	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4013	VCKYCY1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C4014	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4015	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4016	VCKYCY1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C4017	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4018	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4019	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C4020	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4021	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4022	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4023	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4024	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4025	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4026	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4027	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4028	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4029	VCKYCY1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C4030	VCEASX0JN476MY	AC		R	Capacitor, 47 6.3V Electrolytic
C4031	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4032	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C4033	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4201	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C4202	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4203	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C4204	VCKYCY1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C4205	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4206	VCKYCY1HB103KY	AA		R	Capacitor, 0.01 50V Ceramic
C4207	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4209	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4401	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C4402	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4403	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4404	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4405	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4406	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4407	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4408	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4409	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4410	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[7] DUNTKD628FM11 (DIGITAL Unit)					
C4411	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4412	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C4420	VCAAPD1AJ686MY	AE		R	Capacitor, 68 10V Electrolytic
C4606	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C4607	VCCCCY1HH470JY	AA		R	Capacitor, 47p 50V Ceramic
C4608	VCCCCY1HH100DY	AA		R	Capacitor, 10p 50V Ceramic
C4610	VCCCCY1HH470JY	AA		R	Capacitor, 47p 50V Ceramic
C4611	VCCCCY1HH330JY	AA		R	Capacitor, 33p 50V Ceramic
C4612	VCCCCY1HH330JY	AA		R	Capacitor, 33p 50V Ceramic
C4613	VCCCCY1HH330JY	AA		R	Capacitor, 33p 50V Ceramic
C4614	VCCCCY1HH6R0DY	AA		R	Capacitor, 60p 50V Ceramic
C4615	VCCCCY1HH6R0DY	AA		R	Capacitor, 60p 50V Ceramic
C4616	VCCCCY1HH6R0DY	AA		R	Capacitor, 60p 50V Ceramic
C4617	VCCCCY1HH820JY	AA		R	Capacitor, 82p 50V Ceramic
C4618	VCCCCY1HH820JY	AA		R	Capacitor, 82p 50V Ceramic
C4619	VCCCCY1HH820JY	AA		R	Capacitor, 82p 50V Ceramic
C4621	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4622	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C4623	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C4624	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4625	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C4626	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4627	VCKYCY1HB332KY	AA		R	Capacitor, 3300p 50V Ceramic
C4628	VCKYCY1HB332KY	AA		R	Capacitor, 3300p 50V Ceramic
C4629	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4632	VCKYCY1HB332KY	AA		R	Capacitor, 3300p 50V Ceramic
C4633	VCKYCY1HB332KY	AA		R	Capacitor, 3300p 50V Ceramic
C4634	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C4635	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C4636	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
C4637	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
C4638	VCKYCY1HB104KY	AA		R	Capacitor, 0.1 50V Ceramic
C4639	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C4640	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C4641	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C4701	RC-KZA070WJZZY	AD		R	Capacitor, 22 6.3V Ceramic
C4702	VCKYTV1CB105KY	AC		R	Capacitor, 1 16V Ceramic
C4703	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4705	VCKYCY1HB152KY	AA		R	Capacitor, 1500p 50V Ceramic
C4706	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4707	VCAAPD1AJ686MY	AE		R	Capacitor, 68 10V Electrolytic
C4708	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4709	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C4710	VCEASY1CN476MY	AC		R	Capacitor, 47 16V Electrolytic
C4711	RC-KZA073WJZZY	AD		R	Capacitor, 10 16V Ceramic
C4713	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4714	VCKYCY1EF104ZY	AA		R	Capacitor, 0.1 25V Ceramic
C4715	VCEASX0JN476MY	AC		R	Capacitor, 47 6.3V Electrolytic
C4716	VCKYCY1AB105KY	AB		R	Capacitor, 1 10V Ceramic
C4717	VCEASX0JN226MY	AB		R	Capacitor, 22 6.3V Electrolytic
D4701	RH-EX1234CEZZY	AE		R	Zener Diode, HZU3.6B2TRF
D4702	VHDSFPA73//2EY	AD		R	Diode, SFPA-73VL
D4703	VHDHSU119//-1Y	AB		R	Diode, HSU119TRF-E
FB4001	RBLN-A215WJZZY	AB		R	Balun, BLN-A215WJ
FB4002	RBLN-A215WJZZY	AB		R	Balun, BLN-A215WJ
FB4003	RBLN-A215WJZZY	AB		R	Balun, BLN-A215WJ
FB4004	RBLN-A215WJZZY	AB		R	Balun, BLN-A215WJ
FB4005	RBLN-A215WJZZY	AB		R	Balun, BLN-A215WJ
FB4006	RBLN-A215WJZZY	AB		R	Balun, BLN-A215WJ
FB4007	RBLN-A215WJZZY	AB		R	Balun, BLN-A215WJ
FB4008	RBLN-A303WJZZY	AB		R	Balun, BLN-A303WJ
FB4009	RBLN-A303WJZZY	AB		R	Balun, BLN-A303WJ
FB4201	RBLN-A215WJZZY	AB		R	Balun, BLN-A215WJ
FB4202	RBLN-A215WJZZY	AB		R	Balun, BLN-A215WJ
FB4401	RBLN-A215WJZZY	AB		R	Balun, BLN-A215WJ
FB4402	RBLN-A215WJZZY	AB		R	Balun, BLN-A215WJ
FB4601	RBLN-A215WJZZY	AB		R	Balun, BLN-A215WJ
FB4602	RBLN-A215WJZZY	AB		R	Balun, BLN-A215WJ
FB4603	RBLN-A215WJZZY	AB		R	Balun, BLN-A215WJ
FB4701	RBLN-0250TAZZY	AC		R	Balun, BLN-0250TA
IC4001	RH-iXB680WJZZQ	BH	N	R	IC, IXB680WJ
IC4002	VHiTC7SH08U-1Y	AF		R	TC7SH08FU(TE85L,JF)
IC4003	VHiBU4228G+-1Y	AD		R	IC, BU4228G
IC4005	VHiTC7SHU04-1Y			R	TC7SHU04FU(T5L,JF)
IC4201	RH-iXB742WJZZQ	AX		R	IC, IXB742WJ
IC4202	RH-iXB742WJZZQ	AX		R	IC, IXB742WJ
IC4203	RH-iXB681WJZZQ	AR	N	R	IC, IXB681WJ
IC4204	VHiBR24L64F-1Y	AK		R	IC, BR24L64F-WE2
IC4401	VHiTCLCX245-2Y	AE		R	IC, TCLCX245
IC4402	VHiLCX573FT-1Y	AF		R	TC74LCX573FT(EKJ)
IC4403	VHiTC7SH08U-1Y	AF		R	TC7SH08FU(TE85L,JF)
IC4404	VHiLCX244FT-1Y	AE		R	TC74LCX244FT(EL,K)
IC4405	VHiLCX573FT-1Y	AF		R	TC74LCX573FT(EKJ)
IC4406	VHiTC7SH32U1EY			R	TC7SH32FU(TE85L,JF)
IC4407	VHiTC7SH32U1EY			R	TC7SH32FU(TE85L,JF)

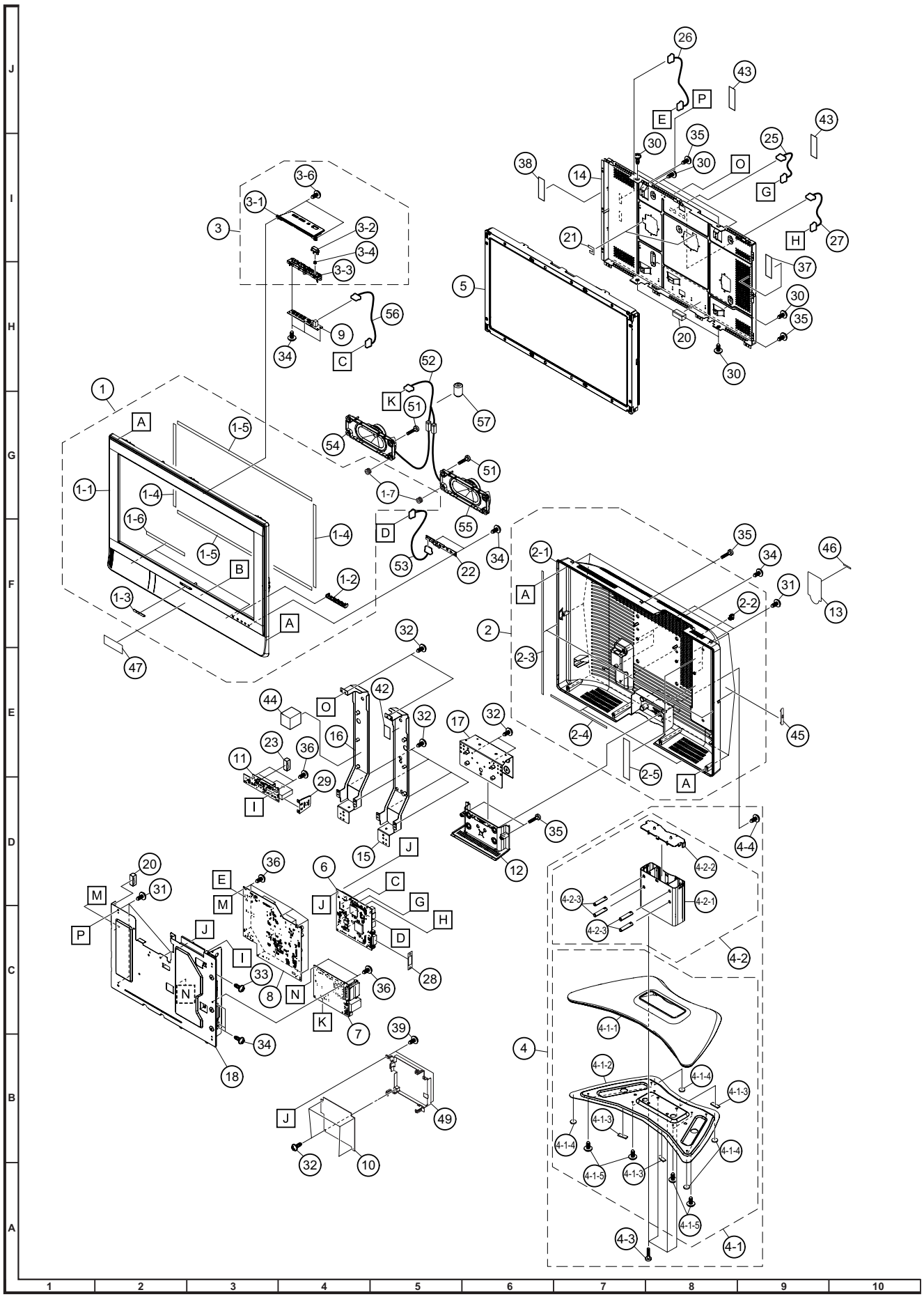
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[7] DUNTKD628FM11 (DIGITAL Unit)					
IC4408	VHiTC7SH02U1EY			R	TC7SH02FU(T5L,JF,T
IC4604	VHiTSH73CPT-1Y	AL	N	R	IC, TSH73CPT
IC4701	VHiMP1583++-1Y	AH		R	IC, MP1583
IC4702	VSSSM6J51TU-1Y	AF	N	R	IC, SSM6J51TU
IC4704	VHiPQ018ENA-1Y	AF	N	R	IC, PQ018ENA
L4601	VPD9M100J1R7NY	AC		R	Coil, Peaking 1.7μH
L4603	VPD9M5R6J1R6NY	AB		R	Coil, Peaking 1.6μH
L4604	VPD9M5R6J1R6NY	AB		R	Coil, Peaking 1.6μH
L4605	VPD9M5R6J1R6NY	AB		R	Coil, Peaking 1.6μH
L4701	RCiLPA214WJZZY	AG		R	Coil, Peaking 1.6μH
LUG4601	QLUGHA009WJZZY	AC		R	Lug
LUG4602	QLUGHA006WJZZY	AC		R	Lug
LUG4603	QLUGHA006WJZZY	AC		R	Lug
LUG4604	QLUGHA009WJZZY	AC		R	Lug
P4001	QPLGN0463TAZZY	AC		R	Plug, 4Pin(RS)
P4003	QPLGN0463TAZZY	AC		R	Plug, 4Pin(RS1)
Q4001	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q4002	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q4201	VS2SA1530AR-1Y	AB		R	Transistor, 2SA1530A-T112-1R
Q4401	RH-TXA026WJZZY	AD	N	R	Transistor, PBLS2001D,115
Q4601	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q4602	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q4603	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q4604	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q4605	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q4606	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q4607	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
Q4701	VSDTC144EE/-1Y	AA		R	Transistor, DTC144EETL
Q4702	VSDTC144EE/-1Y	AA		R	Transistor, DTC144EETL
Q4703	VS2SC3928AR-1Y	AB		R	Transistor, 2SC3928A-T112-1R
R4001	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R4002	VRS-CY1JF201FY	AA		R	Resistor, 200 1/16W Metal Oxide
R4003	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4004	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R4005	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4006	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4007	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4008	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4009	VRS-CY1JF104JY	AA		R	Resistor, 100k 1/16W Metal Oxide
R4010	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R4011	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4012	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4013	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4015	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4016	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R4017	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4018	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R4019	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R4020	VRS-CY1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R4021	VRS-CY1JF222JY	AA		R	Resistor, 2.2k 1/16W Metal Oxide
R4024	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R4025	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R4026	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4027	VRS-CH1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R4028	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4029	VRS-CY1JF330JY	AA		R	Resistor, 33 1/16W Metal Oxide
R4030	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4031	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4032	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4035	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4036	VRS-CH1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4037	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4038	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R4039	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R4190	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R4191	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R4192	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R4193	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R4194	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R4195	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R4196	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R4197	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R4201	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4202	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4203	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4204	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4205	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4206	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4207	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4208	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4209	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4210	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4211	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4212	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4213	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[7] DUNTKD628FM11 (DIGITAL Unit)					
R4214	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4215	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4216	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4217	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4218	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4219	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4220	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4221	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4222	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4223	VRS-CH1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4224	VRS-CH1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4225	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4226	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4227	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4228	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4229	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4230	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4231	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4232	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4233	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4234	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4235	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4236	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4237	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4238	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4239	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4240	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4241	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4242	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4243	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4244	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4245	VRS-CY1JF562JY	AA		R	Resistor, 5.6k 1/16W Metal Oxide
R4246	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4247	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4248	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4249	VRS-CY1JF562JY	AA		R	Resistor, 5.6k 1/16W Metal Oxide
R4250	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4251	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4401	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4402	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4403	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4404	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4405	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4406	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4407	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4408	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4409	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4410	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4411	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4412	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4413	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4414	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4415	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4416	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4417	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4418	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4419	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4420	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4421	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4422	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4425	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4426	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4427	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4428	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4429	VRS-CH1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4430	VRS-CY1JF471JY	AA		R	Resistor, 470 1/16W Metal Oxide
R4431	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4432	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4433	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4434	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4441	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4447	VRS-CY1JF102JY	AA		R	Resistor, 1k 1/16W Metal Oxide
R4601	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4602	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4603	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4604	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4605	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4606	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4607	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4608	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4609	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4616	VRS-CY1JF470FY	AA		R	Resistor, 47 1/16W Metal Oxide
R4617	VRS-CY1JF331FY	AA		R	Resistor, 330 1/16W Metal Oxide
R4618	VRS-CY1JF331FY	AA		R	Resistor, 330 1/16W Metal Oxide
R4619	VRS-CY1JF271FY	AA		R	Resistor, 270 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[7] DUNTKD628FM11 (DIGITAL Unit)					
R4620	VRS-CY1JF271FY	AA		R	Resistor, 270 1/16W Metal Oxide
R4621	VRS-CY1JF271FY	AA		R	Resistor, 270 1/16W Metal Oxide
R4622	VRS-CY1JF271FY	AA		R	Resistor, 270 1/16W Metal Oxide
R4623	VRS-CY1JF271FY	AA		R	Resistor, 270 1/16W Metal Oxide
R4624	VRS-CY1JF271FY	AA		R	Resistor, 270 1/16W Metal Oxide
R4626	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R4627	VRS-CY1JF272FY	AA		R	Resistor, 2.7k 1/16W Metal Oxide
R4628	VRS-CY1JF242FY	AA		R	Resistor, 2.4k 1/16W Metal Oxide
R4629	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4630	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4631	VRS-CY1JF471JY	AA		R	Resistor, 470 1/16W Metal Oxide
R4632	VRS-CY1JF471JY	AA		R	Resistor, 470 1/16W Metal Oxide
R4633	VRS-CY1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R4634	VRS-CY1JF240JY	AA		R	Resistor, 24 1/16W Metal Oxide
R4635	VRS-CY1JF240JY	AA		R	Resistor, 24 1/16W Metal Oxide
R4636	VRS-CY1JF240JY	AA		R	Resistor, 24 1/16W Metal Oxide
R4637	VRS-CY1JF240JY	AA		R	Resistor, 24 1/16W Metal Oxide
R4638	VRS-CY1JF472JY	AA		R	Resistor, 4.7k 1/16W Metal Oxide
R4639	VRS-CY1JF471JY	AA		R	Resistor, 470 1/16W Metal Oxide
R4640	VRS-CY1JF471JY	AA		R	Resistor, 470 1/16W Metal Oxide
R4643	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4644	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4645	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4646	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4647	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4648	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4649	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4650	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4651	VRS-CY1JF183JY	AA		R	Resistor, 18k 1/16W Metal Oxide
R4652	VRS-CY1JF183JY	AA		R	Resistor, 18k 1/16W Metal Oxide
R4657	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R4658	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R4659	VRS-CY1JF331FY	AA		R	Resistor, 330 1/16W Metal Oxide
R4660	VRS-CY1JF473JY	AA		R	Resistor, 47k 1/16W Metal Oxide
R4661	VRS-CY1JF473JY	AA		R	Resistor, 47k 1/16W Metal Oxide
R4662	VRS-CY1JF271FY	AA		R	Resistor, 270 1/16W Metal Oxide
R4663	VRS-CY1JF271FY	AA		R	Resistor, 270 1/16W Metal Oxide
R4664	VRS-CY1JF271FY	AA		R	Resistor, 270 1/16W Metal Oxide
R4665	VRS-CY1JF161FY	AA		R	Resistor, 160 1/16W Metal Oxide
R4666	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4667	VRS-CY1JF161FY	AA		R	Resistor, 160 1/16W Metal Oxide
R4668	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4669	VRS-CY1JF161FY	AA		R	Resistor, 160 1/16W Metal Oxide
R4670	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4672	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4673	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4674	VRS-CY1JF000JY	AA		R	Resistor, 0 1/16W Metal Oxide
R4675	VRS-CY1JF470JY	AA		R	Resistor, 47 1/16W Metal Oxide
R4701	VRS-CY1JF474FY	AA		R	Resistor, 470k 1/16W Metal Oxide
R4702	VRS-CY1JF273FY	AA		R	Resistor, 27k 1/16W Metal Oxide
R4703	VRS-CY1JF153FY	AA		R	Resistor, 15k 1/16W Metal Oxide
R4704	VRS-CY1JF562JY	AA		R	Resistor, 5.6k 1/16W Metal Oxide
R4705	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4706	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4707	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4708	VRS-CY1JF332JY	AA		R	Resistor, 3.3k 1/16W Metal Oxide
R4709	VRS-TX2HF000JY	AB		R	Resistor, 0 1/2W Metal Oxide
R4710	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R4711	VRS-TX2HF000JY	AB		R	Resistor, 0 1/2W Metal Oxide
R4712	VRS-CY1JF103JY	AA		R	Resistor, 10k 1/16W Metal Oxide
R4713	VRS-TX2HF1R0JY	AB		R	Resistor, 1 1/2W Metal Oxide
R4715	VRS-TX2HF000JY	AB		R	Resistor, 0 1/2W Metal Oxide
R4716	VRS-TX2HF000JY	AB		R	Resistor, 0 1/2W Metal Oxide
R4717	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
SC4601	QCNCWA202WJZZY	AK		R	Connector, 60Pin
SC4602	QSOCNA003WJZZY	AM		R	Socket, 100Pin
X4001	RCRSC0032TAZZY	AG		R	Crystal, 32.768kHz
X4002	RCRUAA075WJZZY	AQ	N	R	Crystal, 27MHz
N	PMLT-A314WJZZ	AE	N	R	Molt Spacer
N	PSLDMA943WJFW	AK	N	R	Digital Shield
N	QCNCMA199WJSA	AV	N	R	Cadr Slot
N	XBPSN20P14JS0	AB	N	R	Screw, x4
N	XJPS730P08WS0	AA		R	Screw, x4
N	XNESN20-16000		N	R	Nut, x4

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[8] DUNTKD972FM01 (KEY_Unit)					
D151	RH-EX0641GEZZY	AA		R	Zener Diode, MTZJT-7212C
P153	QPLGNA057WJZZ	AB		R	Plug, 3Pin(KM)
R151	VRD-RA2BE182JY	AA		R	Resistor, 1.8k 1/8W Carbon
R152	VRD-RA2BE431JY	AA	N	R	Resistor, 430 1/8W Carbon
R153	VRD-RA2BE822JY	AA		R	Resistor, 8.2k 1/8W Carbon
R155	VRD-RA2BE432JY	AA	N	R	Resistor, 4.3k 1/8W Carbon
R156	VRD-RA2BE911JY	AA	N	R	Resistor, 910 1/8W Carbon
S151	QSW-K0003AJZZ+	AB		R	Switch, CH UP
S152	QSW-K0003AJZZ+	AB		R	Switch, CH DOWN
S153	QSW-K0003AJZZ+	AB		R	Switch, INPUT
S154	QSW-K0003AJZZ+	AB		R	Switch, VOL UP
S155	QSW-K0003AJZZ+	AB		R	Switch, VOL DOWN
S156	QSW-P0035GEZZ	AF		R	Switch
[9] DUNTKD973FM01 (R/C,LED Unit)					
C101	VCEASY1CN107MY	AC		R	Capacitor, 100 16V Electrolytic
C102	VCKYTV1CF225ZY	AB		R	Capacitor, 2.2 16V Ceramic
C104	VCEASX1CN106MY	AC		R	Capacitor, 10 16V Electrolytic
C105	VCKYCY1HF103ZY	AA		R	Capacitor, 0.01 50V Ceramic
D101	RH-EXA092WJZZY	AB		R	Zener Diode, UDZSTE-1712B
D102	RH-PX0202TAZZY	AC		R	LED, PG1102W-330-TR
D103	RH-PX0210TAZZY	AC		R	LED, BRPG1211C-TR
D104	RH-PX0419CEZZY	AC		R	LED, SML-010LTT86
IC101	VHiTPS850++-1Y	AG		R	IC, TPS850
P101	QPLGNA344WJZZY	AD		R	Plug, 10Pin(RA)
R101	VRS-CY1JF101JY	AA		R	Resistor, 100 1/16W Metal Oxide
R108	VRS-CY1JF271JY	AA		R	Resistor, 270 1/16W Metal Oxide
R109	VRS-CY1JF122JY	AA		R	Resistor, 1.2k 1/16W Metal Oxide
R112	VRS-CY1JF471JY	AA		R	Resistor, 470 1/16W Metal Oxide
R114	VRS-CY1JF821JY	AA		R	Resistor, 820 1/16W Metal Oxide
RMC101	RRMCUA053WJZZ	AE	N	R	Remote Receiver
SLD101	PSLDM4646CEFW	AD		R	Shield

[10] CABINET PARTS

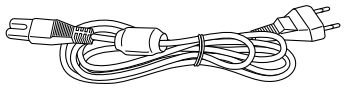


NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[10] CABINET PARTS					
1	CCABAB562WJ01		N	R	Front Cabinet Ass'y
1-1	–	–	N	–	Front Cabinet
1-2	GCOVAB879WJSA			R	LED Cover
1-3	HBDGBA060WJSA			R	Badge, SHARP
1-4	LHLDW1033PEZZ	AA		R	Wire Holder (SP/RA)
1-5	PSPAHA858WJZZ			R	Spacer, x2 (Side)
1-6	PSPAHA859WJZZ			R	Spacer, x2 (Top/Bottom)
1-7	QCNW-F076WJQZ		N	R	Connecting Cord (SP)
1-8	QCNW-F077WJQZ		N	R	Connecting Cord (RA)
1-9	RCORF0103CEZZ	AK		R	Core (SP Wire)
1-10	RCORFA023WJZZ	AK		R	Core,x2 (KM Wire)
1-11	XEBS930P08000	AA		R	Screw, x2
1-12	DUNTKD973FM01		N	R	R/C, LED Unit
2	CCABBA918WJ01		S	R	Rear Cabinet Ass'y
2-1	–	–	N	–	Rear Cabinet
2-2	LHLDWA055WJKZ	AC		R	Wire Holder AC cord)
2-3	PSPAGA363WJZZ		N	R	Spacer, x2 (Rear Cabinet)
2-4	PSPAHB059WJZZ		N	R	Spacer (Top Left)
2-5	PSPAHB060WJZZ		N	R	Spacer, x2 (Side)
2-6	PSPAHB061WJZZ		N	R	Spacer, x2 (Side)
2-7	PSPAHB067WJZZ		N	R	Spacer, x2 (Terminal)
2-8	PSPAHB069WJZZ		N	R	Spacer, x2 (Terminal)
3	CCOVAB878WJ01			R	Top Control Cover Ass'y
3-1	–	–	N	–	Top Control Cover
3-2	JBTN-A606WJKA		N	R	Button, Power
3-3	JBTN-A607WJKA		N	R	Button, CTRL
3-4	MSPRCA068WJFW			R	Spring
3-5	XEBS930P08000	AA		R	Screw, x2
3-6	DUNTKD972FM01		N	R	KEY Unit
4	CDAi-A320WJ02			R	Stand Ass'y
4-1	CDAi-A320WJ01		N	R	Stand Base Ass'y
4-1-1	–	–	N	–	Stand
4-1-2	LANGKA838WJFW		N	R	Base Angle
4-1-3	PSPAZB224WJZZ		N	R	Leg Cushion A, x4
4-1-4	PSPAZB225WJZZ		N	R	Leg Cushion B, x4
4-1-5	XEBS740P10000			R	Screw, x10
4-2	CDAi-A321WJ01		N	R	Stand Support Ass'y
4-2-1	–	–	N	–	STAND
4-2-2	GCOVAB870WJKA		N	R	Support Cover
4-2-3	HDECQA677WJKA		N	R	Screw Guide, x4
4-3	LX-BZA166WJF7		N	R	Screw, x4 (Stand)
4-4	LX-BZA167WJF7		N	R	Screw, x4 (Stand to Set)
5	R1LK370T3LZ5BX	EZ		V	37 WXGA LCD Panel Module Unit
6	DUNTKD890FM20		N	R	MAIN Unit
7	DUNTKD604FM20		N	R	AV Unit
8	DUNTKD605FM18		N	R	POWER Unit
9	DUNTKD609FM16		N	R	DIGITAL TUNER Unit
10	DUNTKD628FM11		N	R	DIGITAL Unit
11	GCOVAB488WJKB			R	Bottom Cover
12	GCOVAB586WJKA			R	PC Card Cover
13	HiNDPB930WJSA		N	R	Model Label (LC-37SD1E/K)
13	HiNDPB931WJSA		N	R	Model Label (LC-37SD1I)
13	HiNDPB932WJSA		N	R	Model Label (LC-37SD1RU)
14	LANGKA672WJFW			R	LCD Angle
15	LANGKA836WJFW			R	LCD Angle, x4
16	LANGTA266WJN1			R	Stand Angle
17	LANGTA268WJN1			R	Center Angle (L)
18	LANGTA269WJN1			R	Center Angle (R)
19	LCHSMA324WJZZ	BA	N	R	Chassis Tray
20	LHLDW1033CE00	AA		R	Wire Holder
21	LHLDW1033CE00	AA		R	Wire Holder
22	LHLDW1123GEZZ	AB		R	Wire Holder, x3
23	LHLDW1123GEZZ	AB		R	Wire Holder, x2
24	LHLDW1173CEZZ	AD		R	Wire Holder, x2 (LED/SP)
25	LHLDW1205CEZZ	AC		R	Wire Holder, x2 (Chassis Tray)
26	LHLDWA055WJKZ	AC		R	Wire Holder AC cord)
27	LHLDWA137WJZZ	AB		R	Wire Holder, x2 (LED Wire)
28	LX-HZA003WJFN	AC		R	Screw, x2 (for Speaker)
29	PCUSGA009WJKZ			R	Cushion
30	PFLT-A004WJZZ	AE		R	Spacer, x2
31	PMLT-A255WJZZ	AD		R	Spacer
32	PMLT-A315WJZZ	AP		R	Absorber, x2 (Tray)
33	PSHEFA018WJZZ		S	R	Sheet (KEY Wire)
34	PSLDMA584WJZZ	AE		R	Shield (EMC)
35	PSLDMA770WJZZ			R	Shield
36	PSLDMA840WJZZ	AD		R	Shield (D-SLD)
37	PSLDMA877WJFW			R	Control Shield
38	PSPAHB052WJZZ			R	Spacer, x2 (SP-Box)
39	QCNW-E415WJQZ	AP		R	Connecting Cord (LA)
40	QCNW-E419WJQZ	AM		R	Connecting Cord (LB)
41	QCNW-E609WJQZ	AH		R	Connecting Cord (SH)
42	QCNW-F072WJQZ		N	R	Connecting Cord (KM: KEY-MAIN)
43	QCNW-F084WJPZ		N	R	Connecting Cord (LV)
44	QEARPA212WJFW	AE		R	Earth Plate A
45	QEARZA096WJFW			R	Tuner Earth Plate

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[10] CABINET PARTS					
46	RCORFA023WJZZ	AK		R	Core (KM Wire)
47	RCORFA064WJZZ		N	R	Core, x2 (Panel FPC)
48	RSP-ZA200WJN1		N	S	Speaker (L)
49	RSP-ZA200WJN2		N	S	Speaker (R)
50	XBBS930P06000	AA		R	Screw, x10 (Rear Cabinet/Chassis)
51	XBPS730P06WS0	AA		R	Screw, x17 (Center Angle/LCD Angle)
52	XBPS830P06000	AA		R	Screw (HDMI)
53	XEBS930P08000	AA		R	Screw, x4 (Top Control Cover/Skirt Terminal)
54	XEBS940P16000	AB		R	Screw, x11 (Rear Cabinet/Bottom Cover)
55	XEBSN40P10000	AB		R	Screw, x6 (LCD Unit)
56	XJPS730P04WS0	AB		R	Screw, x2 (Control Shield)
57	XJPS730P08WS0	AA		R	Screw, x13 (PWB)
58	TLABNB415WJZZ			R	No. Label

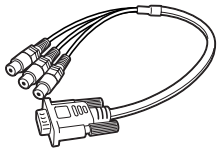
[11] SUPPLIED ACCESSORIES

X1 AC cord



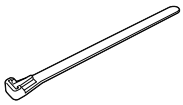
X2 Remote control unit

X3 3 RCA to 15-pin D-sub adapter

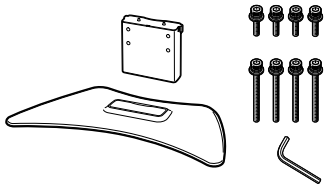


X4 Cable clamp

X5 Cable tie



X6 Stand Ass'y



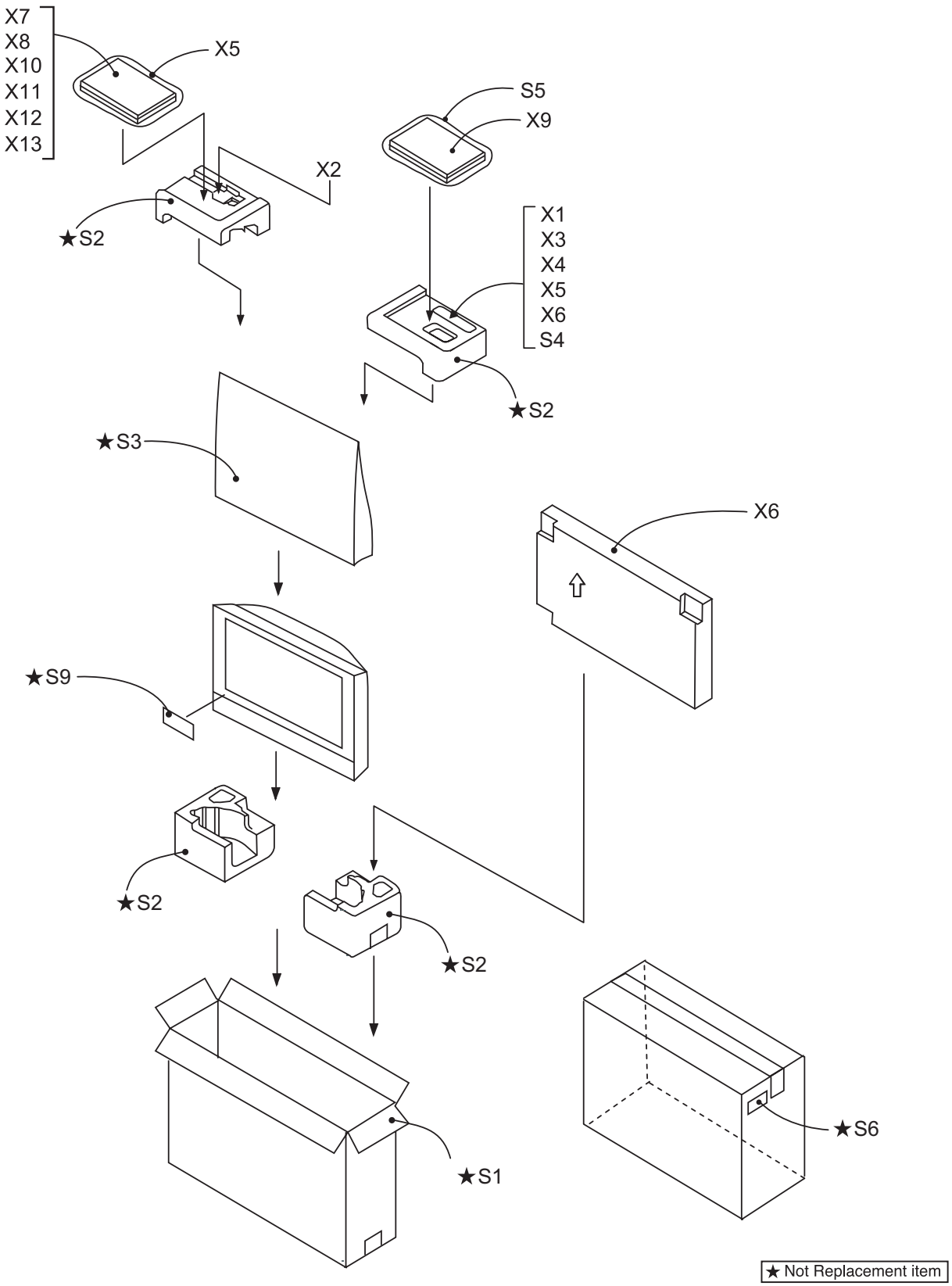
X7 X8 X9 X10 Operation manual

X11 X12 Guarantee Card

X13 AQUOS Care Plan

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[11] SUPPLIED ACCESSORIES					
⚠ X1	QACCKA021WJPZ		N	R	AC Cord for EUROPE without U.K.
⚠ X1	QACCBA073WJPZ			R	AC Cord for U.K.
X2	RRMCGA520WJSA			S	Remote Control
X3	QCNWGA075WJPZ	AU		R	3 RCA to 15-pin D-sub Adaptor
X4	LHLDW0110CESB	AF		R	Cable Clamp
X5	LHLDWA083WJ00	AD		R	Cable tie
X6	CDAi-A320WJ02			R	Stand Ass'y
X7	TiNS-C712WJZZ		N	R	Operation Manual (English) (LC-37SD1E/K/I)
X8	TiNS-C713WJZZ		N	R	Operation Manual (Swedish) (LC-37SD1E)
X9	TiNS-C714WJZZ		N	R	Operation Manual (Polish) (LC-37SD1E)
X10	TiNS-C715WJZZ		N	R	Operation Manual (Russian) (LC-37SD1RU)
X11	TGAN-A077WJZZ			R	Guarantee Card (LC-37SD1RU)
X12	TGAN-A342WJZZ			J	Guarantee Card (LC-37SD1K)
X13	TGAN-A512WJZZ			J	AQUOS Care Plan (LC-37SD1K)

[12] PACKING PARTS



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[12] PACKING PARTS					
S1	SPAKCC970WJZZ	–	N	–	Packing Case (LC-37SD1E/K/I)
S1	SPAKCC972WJZZ	–	N	–	Packing Case (LC-37SD1RU)
S2	SPAKXB252WJZZ	–	S	–	Buffer Material
S3	SPAKPA338WJZZ	–		–	Wrapping Paper
S4	SSAKAA009WJZZ	–		–	Polyethylene Bag
S5	SSAKAA010WJZZ	–		–	Polyethylene Bag
S6	TLABKA002WJZZ	–		–	Case No. Label
S7	TLABN0134BMZZ	–		–	SEES No. Label, x2
S8	TLABZB303WJZZ	–	N	–	POP Label
[13] SERVICE JIGS					
N	QCNW-E542WJZZ	BH		J	Extension Cable, 23pins Board to Board
N	QCNW-E543WJZZ	BB		J	Extension Cable, 9pins Board to Board
N	QCNW-E544WJZZ	BE		J	Extension Cable, 15pins Board to Board
N	QCNW-E546WJZZ	BA		J	Extension Cable, 7pins Board to Board
N	QCNWGA015WJPZ	AK		J	Interface Cable L=165mm, 9pin D-sub - Mini DIN (AN-AIRS)
N	QCNWKA011WJZZ			J	Extension Cable for Digital Unit
N	QCNWKA012WJZZ			J	Digital Software Writiing Jig

■INDEX

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
【 C 】				
CCABAB562WJ01	10-1		N	R
CCABBA918WJ01	10-2		S	R
CCOVAB878WJ01	10-3			R
CDAi-A320WJ01	10-4-1		N	R
CDAi-A320WJ02	10-4			R
〃	11-X6			R
CDAi-A321WJ01	10-4-2		N	R
【 D 】				
DUNTKD604FM20	1-		N	R
〃	10-7		N	R
DUNTKD605FM18	1-		N	R
〃	10-8		N	R
DUNTKD609FM16	1-		N	S
〃	10-9		N	R
DUNTKD628FM11	1-		N	R
〃	10-10		N	R
DUNTKD890FM20	1-		N	R
〃	10-6		N	R
DUNTKD972FM01	1-		N	R
〃	10-3-6		N	R
DUNTKD973FM01	1-		N	R
〃	10-1-12		N	R
【 G 】				
GCOVAB488WJKB	10-11			R
GCOVAB586WJKA	10-12			R
GCOVAB870WJKA	10-4-2-2		N	R
GCOVAB879WJSA	10-1-2			R
【 H 】				
HBDGBA060WJSA	10-1-3			R
HDECQA677WJKA	10-4-2-3		N	R
HiNDPB930WJSA	10-13		N	R
HiNDPB931WJSA	10-13		N	R
HiNDPB932WJSA	10-13		N	R
【 J 】				
JBTN-A606WJKA	10-3-2		N	R
JBTN-A607WJKA	10-3-3		N	R
【 L 】				
LANGKA672WJFW	10-14			R
LANGKA836WJFW	10-15			R
LANGKA838WJFW	10-4-1-2		N	R
LANGQA027WJFW	5-E701	AE		R
LANGTA266WJN1	10-16			R
LANGTA268WJN1	10-17			R
LANGTA269WJN1	10-18			R
LCHSMA324WJZZ	10-19	BA	N	R
LHLDW0110CESB	11-X4	AF		R
LHLDW1033CE00	10-20	AA		R
〃	10-21	AA		R
LHLDW1033PEZZ	10-1-4	AA		R
LHLDW1072GEZZ	6-N	AA		S
LHLDW1123GEZZ	10-22	AB		R
〃	10-23	AB		R
LHLDW1173CEZZ	10-24	AD		R
LHLDW1205CEZZ	10-25	AC		R
LHLDWA055WJKZ	10-26	AC		R
〃	10-2-2	AC		R
LHLDWA083WJ00	11-X5	AD		R
LHLDWA137WJZZ	10-27	AB		R
LX-BZ3049GEF7	5-N	AA		R
〃	5-N	AA		R
〃	5-N	AA		R
〃	5-N	AA		R
〃	5-N	AA		R
LX-BZA165WJZZ	5-N	AB	N	R
LX-BZA166WJF7	10-4-3		N	R
LX-BZA167WJF7	10-4-4		N	R
LX-HZA003WJFN	10-28	AC		R
【 M 】				
MSPRCA068WJFW	10-3-4			R
【 P 】				
PCUSGA009WJKZ	10-29			R
PFLT-A004WJZZ	10-30	AE		R
PMLT-A255WJZZ	10-31	AD		R
PMLT-A314WJZZ	7-N	AE	N	R
PMLT-A315WJZZ	10-32	AP		R
PRDARA306WJFW	5-RDA702	AG	N	R
PRDARA308WJFW	5-RDA704	AH	N	R
PRDARA309WJFW	5-RDA705	AH	N	R
PRDARA323WJFW	5-RDA701	AG	N	R
PRDARA334WJFW	5-RDA706	AF	N	R
PRDARA340WJFW	5-RDA703	AL	N	R
PSHEFA018WJZZ	10-33		S	R
PSLDM4646CEFW	9-SLD101	AD		R
PSLDMA584WJZZ	10-34	AE		R
PSLDMA770WJZZ	10-35			R
PSLDMA840WJZZ	10-36	AD		R
PSLDMA877WJFW	10-37			R
PSLDMA898WJFW	6-N	AD	N	S
PSLDMA943WJFW	7-N	AK	N	R
PSPAGA363WJZZ	10-2-3		N	R
PSPAHA858WJZZ	10-1-5			R
PSPAHA859WJZZ	10-1-6			R
PSPAHB052WJZZ	10-38			R
PSPAHB059WJZZ	10-2-4		N	R
PSPAHB060WJZZ	10-2-5		N	R
PSPAHB061WJZZ	10-2-6		N	R
PSPAHB067WJZZ	10-2-7		N	R
PSPAHB069WJZZ	10-2-8		N	R
PSPAZB224WJZZ	10-4-1-3		N	R
PSPAZB225WJZZ	10-4-1-4		N	R
【 Q 】				
QACCBA073WJPZ	11-X1			R
QACCKA021WJPZ	11-X1		N	R
QCNCMA012WJZZ	6-P201	AD		S
QCNCMA199WJSA	7-N	AV	N	R
QCNCMA202WJZZY	3-P2702	AK		R
QCNCMA247WJZZ	5-P702	AD		R
QCNCMA250WJZZ	4-P1101	AE		R
〃	4-P1102	AE		R
〃	4-P1201	AE		R
〃	5-P701	AE		R
〃	6-P202	AE		S
QCNCWA010WJZZY	3-SC2705	AE		R
QCNCWA202WJZZY	7-SC4601	AK		R
QCNCWA248WJZZY	3-SC1702	AD		R
QCNCWA251WJZZY	3-SC1701	AH		R
〃	3-SC2702	AH		R
〃	3-SC2703	AH		R
〃	3-SC2704	AH		R
〃	3-SC2707	AH		R
QCNW-E415WJQZ	10-39	AP		R
QCNW-E419WJQZ	10-40	AM		R
QCNW-E542WJZZ	13-N	BH		J
QCNW-E543WJZZ	13-N	BB		J
QCNW-E544WJZZ	13-N	BE		J
QCNW-E546WJZZ	13-N	BA		J
QCNW-E609WJQZ	10-41	AH		R
QCNW-F072WJQZ	10-42		N	R
QCNW-F076WJQZ	10-1-7		N	R
QCNW-F077WJQZ	10-1-8		N	R
QCNW-F084WJPZ	10-43		N	R
QCNWGA015WJPZ	13-N	AK		J
QCNWGA075WJPZ	11-X3	AU		R
QCNWKA011WJZZ	13-N			J
QCNWKA012WJZZ	13-N			J
QEARPA212WJFW	10-44	AE		R
QEARZA096WJFW	10-45			R
QFS-ZA007WJZZ	5-F701	AC		R
QJAKEA073WJZZ	3-J2701	AD		R
〃	3-J2702	AD		R
QJAKJA007WJZZ	4-J1301	AD		R
QJAKZA033WJZZ	4-J1201	AK	N	R
QLUGHA002WJZZ	5-LUG701	AB		R
〃	5-LUG702	AB		R
〃	5-LUG703	AB		R
〃	5-LUG704	AB		R
QLUGHA006WJZZY	3-LUG1701	AC		R
〃	3-LUG1702	AC		R
〃	3-LUG1703	AC		R
〃	3-LUG1704	AC		R
〃	7-LUG4602	AC		R
〃	7-LUG4603	AC		R
QLUGHA009WJZZY	4-LUG301	AC		R
〃	4-LUG302	AC		R
〃	4-LUG303	AC		R
〃	4-LUG304	AC		R
〃	6-LUG201	AC		S
〃	6-LUG202	AC		S

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	6-LUG203	AC		S
〃	7-LUG4601	AC		R
〃	7-LUG4604	AC		R
QPLGN0463TAZZY	7-P4001	AC		R
〃	7-P4003	AC		R
QPLGN0565FJZZY	3-P2306	AE		R
QPLGNA053WJZZ	5-P704	AF	N	R
QPLGNA057WJZZ	8-P153	AB		R
QPLGNA173WJZZY	4-P301	AD		R
QPLGNA337WJZZY	3-P2302	AC		R
QPLGNA341WJZZY	3-P2301	AD		R
QPLGNA342WJZZY	3-P1701	AD		R
QPLGNA344WJZZY	3-P2303	AD		R
〃	9-P101	AD		R
QPLGNA522WJQZY	3-P2305	AL		R
QPLGZ0738CEZZ	5-P703	AC		R
QSOCAA008WJZZ	5-SC701	AE	N	R
QSOCDA036WJZZ	3-SC2301	AF		R
QSOCNA003WJZZY	7-SC4602	AM		R
QSOCNA229WJZZ	3-SC2303	AH		R
QSOCZ0738CEZZ	4-SC301	AE		R
QSOCZA116WJZZ	4-J1101	AK	N	R
QSOCZA117WJZZQ	3-SC1901	AK		R
QSW-K0003AJZZ+	8-S151	AB		R
〃	8-S152	AB		R
〃	8-S153	AB		R
〃	8-S154	AB		R
〃	8-S155	AB		R
QSW-P0035GEZZ	8-S156	AF		R
【 R 】				
R1LK370T3LZ5BX	2-	EZ		V
〃	10-5	EZ		V
RBLN-0051TAZZY	4-FB1105	AC		R
〃	4-FB1107	AC		R
〃	4-FB1111	AC		R
〃	4-FB1112	AC		R
〃	4-FB1201	AC		R
〃	4-FB1202	AC		R
RBLN-0060TAZZY	3-FB1901	AB		R
〃	3-FB1903	AB		R
〃	3-FB1904	AB		R
〃	3-FB1905	AB		R
〃	3-FB1906	AB		R
〃	3-FB1908	AB		R
RBLN-0061TAZZY	3-FB2301	AD		R
〃	3-FB2302	AD		R
〃	3-FB2305	AD		R
〃	3-FB2306	AD		R
〃	3-FB2307	AD		R
〃	3-FB2308	AD		R
〃	3-FB2309	AD		R
〃	3-FB2704	AD		R
〃	3-FB2705	AD		R
〃	3-FB2706	AD		R
〃	3-FB2707	AD		R
〃	3-FB2708	AD		R
〃	3-FB2709	AD		R
〃	3-FB2710	AD		R
〃	3-FB2711	AD		R
〃	3-FB3307	AD		R
〃	3-FB3308	AD		R
RBLN-0062TAZZY	4-FB1101	AB		R
〃	4-FB1102	AB		R
〃	4-FB1106	AB		R
〃	4-FB1108	AB		R
〃	4-FB1109	AB		R
〃	4-FB1110	AB		R
〃	4-FB1203	AB		R
〃	4-FB1204	AB		R
RBLN-0077TAZZY	4-FB1103	AB		R
〃	4-FB1104	AB		R
RBLN-0210TAZZY	3-R2304	AB		R
〃	3-R2306	AB		R
〃	3-FB1907	AB		R
〃	3-FB1909	AB		R
〃	3-FB2310	AB		R
〃	3-FB2715	AB		R
〃	4-FB1213	AB		R
〃	6-FB201	AB		S
RBLN-0250TAZZY	3-FB1701	AC		R
〃	3-FB1702	AC		R
〃	7-FB4701	AC		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
RBLN-0254TAZZY	3-FB2702	AB		R
〃	3-FB2703	AB		R
〃	3-FB2713	AB		R
〃	3-FB3001	AB		R
〃	3-FB3002	AB		R
〃	3-FB3003	AB		R
〃	3-FB3004	AB		R
〃	3-FB3005	AB		R
〃	3-FB3006	AB		R
〃	3-FB3007	AB		R
〃	3-FB3008	AB		R
〃	3-FB3009	AB		R
〃	3-FB3010	AB		R
〃	3-FB3011	AB		R
〃	3-FB3012	AB		R
〃	3-FB3013	AB		R
〃	3-FB3014	AB		R
〃	3-FB3015	AB		R
〃	3-FB3016	AB		R
〃	3-FB3018	AB		R
〃	3-FB3020	AB		R
〃	4-FB1218	AB		R
RBLN-A215WJZZY	7-FB4001	AB		R
〃	7-FB4002	AB		R
〃	7-FB4003	AB		R
〃	7-FB4004	AB		R
〃	7-FB4005	AB		R
〃	7-FB4006	AB		R
〃	7-FB4007	AB		R
〃	7-FB4201	AB		R
〃	7-FB4202	AB		R
〃	7-FB4401	AB		R
〃	7-FB4402	AB		R
〃	7-FB4601	AB		R
〃	7-FB4602	AB		R
〃	7-FB4603	AB		R
RBLN-A303WJZZY	7-FB4008	AB		R
〃	7-FB4009	AB		R
RC-EZA452WJZZ	5-C752	AG		R
〃	5-C756	AG		R
〃	5-C768	AG		R
RC-EZA480WJZZ	5-C757	AD		R
RC-EZA489WJZZ+	5-C723	AC		R
〃	5-C735	AC		R
〃	5-C736	AC		R
RC-EZA490WJZZ+	5-C758	AD		R
RC-EZA499WJZZ	5-C744	AH		R
〃	5-C751	AH		R
〃	5-C755	AH		R
RC-EZA510WJZZ	5-C754	AF		R
〃	5-C767	AF		R
RC-EZA513WJZZ	4-C338	AH		R
〃	4-C339	AH		R
〃	5-C743	AH		R
〃	5-C762	AH		R
RC-EZA986WJZZ	5-C705	AT	N	R
〃	5-C706	AT	N	R
RC-FZA026WJZZ	5-C704	AE		R
〃	5-C712	AE		R
RCiLF0024PEZZ	5-L702	AN		R
RCiLFA071WJZZY	3-L2301	AD		R
〃	3-L2302	AD		R
〃	3-L2303	AD		R
〃	3-L2304	AD		R
〃	3-L2305	AD		R
RCiLFA134WJZZY	3-L1901	AF		R
〃	3-L1902	AF		R
〃	3-L1903	AF		R
〃	3-L1904	AF		R
RCiLFA211WJZZ	5-L701	AG	N	R
RCiLPA213WJZZY	3-L1701	AG		R
〃	3-L1702	AG		R
RCiLPA214WJZZY	7-L4701	AG		R
RCiLPA386WJZZ	4-L301	AF		R
〃	4-L302	AF		R
RCiLPA642WJZZ	5-L753	AE	N	R
RC-KZ0105GEZZ	5-C708	AD		R
〃	5-C709	AD		R
〃	5-C740	AD		R
〃	5-C741	AD		R
〃	5-C742	AD		R
〃	5-C777	AD		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	5-C778	AD		R
RC-KZA070WJZZY	3-C1706	AD		R
〃	3-C1726	AD		R
〃	7-C4701	AD		R
RC-KZA073WJZZY	3-C1723	AD		R
〃	3-C1724	AD		R
〃	3-C1737	AD		R
〃	3-C1738	AD		R
〃	3-C1910	AD		R
〃	3-C1918	AD		R
〃	3-C1919	AD		R
〃	3-C1921	AD		R
〃	3-C1931	AD		R
〃	3-C1935	AD		R
〃	3-C2730	AD		R
〃	3-C3002	AD		R
〃	3-C3004	AD		R
〃	3-C3005	AD		R
〃	3-C3006	AD		R
〃	3-C3010	AD		R
〃	3-C3017	AD		R
〃	3-C3022	AD		R
〃	3-C3027	AD		R
〃	3-C3029	AD		R
〃	3-C3031	AD		R
〃	3-C3035	AD		R
〃	3-C3036	AD		R
〃	3-C3040	AD		R
〃	3-C3041	AD		R
〃	3-C3046	AD		R
〃	4-C361	AD		R
〃	4-C1109	AD		R
〃	4-C1110	AD		R
〃	4-C1132	AD		R
〃	4-C1133	AD		R
〃	4-C1136	AD		R
〃	4-C1137	AD		R
〃	4-C1145	AD		R
〃	4-C1146	AD		R
〃	4-C1148	AD		R
〃	4-C1157	AD		R
〃	4-C1158	AD		R
〃	4-C1161	AD		R
〃	4-C1205	AD		R
〃	4-C1208	AD		R
〃	4-C1220	AD		R
〃	4-C1221	AD		R
〃	4-C1222	AD		R
〃	4-C1223	AD		R
〃	6-C279	AD		S
〃	7-C4622	AD		R
〃	7-C4709	AD		R
〃	7-C4711	AD		R
RC-KZA213WJZZY	5-C776	AC		R
〃	5-C783	AC		R
RC-KZA304WJZZ	5-C725	AD	N	R
〃	5-C734	AD	N	R
RC-KZA388WJZZY	5-C713	AC		R
〃	5-C794	AC		R
RCORF0103CEZZ	10-1-9	AK		R
RCORFA023WJZZ	10-46	AK		R
〃	10-1-10	AK		R
RCORFA064WJZZ	10-47		N	R
RCRSAA029WJZZ	6-X201	AF		S
RCRSC0012CEZZY	3-X3001	AH		R
RCRSC0032TAZZY	7-X4001	AG		R
RCRSCA039WJZZY	6-X202	AG		S
RCRSCA108WJZZY	3-X1901	AF		R
RCRUAA075WJZZY	7-X4002	AQ	N	R
RFiLC0278BMZZ	6-FL201	AM		S
RFiLC0294BMZZ	6-FL202	AR		S
RFiLN0003TAZZY	3-FL2301	AD		R
〃	3-FL2302	AD		R
〃	3-FL2303	AD		R
RFiLN0017TAZZY	4-FL1101	AC		R
〃	4-FL1102	AC		R
〃	4-FL1103	AC		R
〃	4-FL1104	AC		R
〃	4-FL1105	AC		R
〃	4-FL1106	AC		R
〃	4-FL1107	AC		R
〃	4-FL1108	AC		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	4-FL1109	AC		R
〃	4-FL1110	AC		R
〃	4-FL1211	AC		R
〃	4-FL1212	AC		R
RH-DX0477CEZZ	5-D701	AF		R
RH-DXA080WJZZ	5-D736	AK		R
RH-DXA081WJZZ	5-D737	AH		R
RH-DXA085WJZZ	5-D739	AK	N	R
RH-DXA088WJZZY	5-D738	AD	N	R
RH-EX0487CEZZY	3-D1702	AC		R
〃	3-D1707	AC		R
RH-EX0641GEZZY	8-D151	AA		R
RH-EX1015GEZZY	5-D780	AD		R
〃	5-D781	AD		R
RH-EX1026CEZZY	4-D313	AB	N	R
〃	4-D1102	AB	N	R
〃	4-D1103	AB	N	R
〃	4-D1118	AB	N	R
〃	4-D1119	AB	N	R
〃	4-D1120	AB	N	R
〃	4-D1121	AB	N	R
〃	4-D1122	AB	N	R
〃	4-D1123	AB	N	R
RH-EX1034CEZZY	4-D1106	AB	N	R
〃	4-D1107	AB	N	R
〃	4-D1113	AB	N	R
〃	4-D1114	AB	N	R
〃	4-D1115	AB	N	R
〃	4-D1116	AB	N	R
〃	4-D1117	AB	N	R
RH-EX1049CEZZY	4-D1109	AB	N	R
〃	4-D1110	AB	N	R
〃	4-D1111	AB	N	R
〃	4-D1112	AB	N	R
RH-EX1064CEZZY	4-D1105	AB	N	R
〃	4-D1108	AB	N	R
RH-EX1068CEZZY	4-D1101	AB	N	R
〃	4-D1104	AB	N	R
RH-EX1234CEZZY	5-D776	AE		R
〃	7-D4701	AE		R
RH-EX1239CEZZY	4-D1201	AB		R
RH-EX1247CEZZY	3-D2305	AB		R
〃	3-D2306	AB		R
〃	3-D2307	AB		R
〃	3-D2308	AB		R
〃	3-D2313	AB		R
RH-EX1271CEZZY	3-D2301	AB		R
〃	3-D2302	AB		R
〃	3-D2303	AB		R
〃	3-D2304	AB		R
RH-EX1394CEZZY	5-D763	AB		R
RH-EX1398CEZZY	5-D714	AB		R
〃	5-D741	AB		R
〃	5-D751	AB		R
RH-EX1400CEZZY	5-D749	AB		R
RH-EXA091WJZZY	5-D718	AB		R
RH-EXA092WJZZY	9-D101	AB		R
RH-EXA094WJZZY	5-D748	AB		R
〃	5-D753	AB		R
RH-EXA096WJZZY	5-D721	AB		R
RH-EXA101WJZZY	4-D314	AB		R
〃	4-D315	AB		R
〃	4-D316	AB		R
〃	4-D317	AB		R
〃	5-D754	AB		R
〃	5-D756	AB		R
〃	5-D759	AB		R
RH-EXA102WJZZY	5-D746	AB		R
〃	5-D772	AB		R
RH-EXA103WJZZY	4-D311	AB		R
〃	4-D312	AB		R
RH-EXA359WJZZY	5-D782	AE	N	R
〃	5-D783	AE	N	R
RH-FXA003WJZZ	5-D730	AD		R
〃	5-D731	AD		R
〃	5-D732	AD		R
〃	5-D733	AD		R
〃	5-D734	AD		R
RH-HXA033WJZZ	5-TH701	AG	N	R
RH-iXB624WJN1Q	3-iC3002	BR	N	R
RH-iXB664WJZZY	3-iC3003	AY		R
RH-iXB680WJZZQ	7-iC4001	BH	N	R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
RH-iXB681WJZZQ	7-iC4203	AR	N	R
RH-iXB682WJZZQ	6-iC202	AZ	N	S
RH-iXB731WJZZS	3-iC2303			J
RH-iXB742WJZZQ	7-iC4201	AX		R
〃	7-iC4202	AX		R
RH-iXB823WJZZQ	3-iC1710	AR	S	R
RH-PX0202TAZZY	9-D102	AC		R
RH-PX0210TAZZY	9-D103	AC		R
RH-PX0419CEZZY	9-D104	AC		R
RH-TXA026WJZZY	5-Q730	AD		R
〃	5-Q731	AD		R
〃	7-Q4401	AD	N	R
RH-TXA037WJZZY	5-Q723	AE	N	R
〃	5-Q724	AE	N	R
RH-VXA071WJQZ	5-VA701	AD		R
〃	5-VA702	AD		R
RR-HZ0008GEZZY	5-R701	AE	N	R
〃	5-R702	AE	N	R
RRLYDA008WJZZ	5-RY701	AG		R
RRMCGA520WJSA	11-X2			S
RRMCUA053WJZZ	9-RMC101	AE	N	R
RSP-ZA200WJN1	10-48		N	S
RSP-ZA200WJN2	10-49		N	S
RTRNCA023WJZZ	5-T703	AW	N	R
RTRNWA230WJZZ	5-T701	AP		R
RTRNWA231WJZZ	5-T702	AR		R
RTUNQA033WJZZ	2-TU201			S
【 S 】				
SPAKCC970WJZZ	12-S1	－	N	－
SPAKCC972WJZZ	12-S1	－	N	－
SPAKPA338WJZZ	12-S3	－		－
SPAKXB252WJZZ	12-S2	－	S	－
SSAKAA009WJZZ	12-S4	－		－
SSAKAA010WJZZ	12-S5	－		－
【 T 】				
TGAN-A077WJZZ	11-X11			R
TGAN-A342WJZZ	11-X12			J
TGAN-A512WJZZ	11-X13			J
TiNS-C712WJZZ	11-X7		N	R
TiNS-C713WJZZ	11-X8		N	R
TiNS-C714WJZZ	11-X9		N	R
TiNS-C715WJZZ	11-X10		N	R
TLABKA002WJZZ	12-S6	－		－
TLABN0134BMZZ	12-S7	－		－
TLABNB415WJZZ	10-58			R
TLABZB303WJZZ	12-S8	－	N	－
【 V 】				
VCAAPD0JJ227MY	6-C270	AF		S
〃	6-C273	AF		S
VCAAPD1AJ686MY	3-C1721	AE		R
〃	3-C1735	AE		R
〃	7-C4420	AE		R
〃	7-C4707	AE		R
VCCCCY1HH100DY	4-C1204	AA		R
〃	4-C1207	AA		R
〃	7-C4608	AA		R
VCCCCY1HH101JY	3-C1740	AA		R
〃	3-C1744	AA		R
〃	3-C1745	AA		R
〃	3-C1747	AA		R
〃	3-C1748	AA		R
〃	3-C1750	AA		R
〃	3-C1751	AA		R
〃	3-C1752	AA		R
〃	3-C2318	AA		R
〃	3-C2702	AA		R
〃	3-C2703	AA		R
〃	3-C2704	AA		R
〃	3-C2705	AA		R
〃	4-C1104	AA		R
〃	4-C1108	AA		R
〃	4-C1117	AA		R
〃	4-C1118	AA		R
〃	4-C1127	AA		R
〃	4-C1128	AA		R
〃	4-C1203	AA		R
〃	4-C1206	AA		R
〃	4-C1210	AA		R
〃	4-C1216	AA		R
〃	4-C1224	AA		R
〃	4-C1225	AA		R
〃	5-C726	AA		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VCCCCY1HH102JY	3-C1746	AB		R
〃	5-C739	AB		R
VCCCCY1HH120JY	3-C1929	AA		R
〃	3-C1934	AA		R
〃	6-C229	AA		S
VCCCCY1HH150JY	3-C3034	AA		R
〃	6-C235	AA		S
〃	6-C260	AA		S
〃	7-C4007	AA		R
VCCCCY1HH180JY	3-C3039	AA		R
〃	7-C4006	AA		R
VCCCCY1HH220JY	6-C202	AA		S
〃	6-C203	AA		S
VCCCCY1HH2R0CY	6-C259	AA		S
VCCCCY1HH330JY	4-C316	AA		R
〃	4-C317	AA		R
〃	6-C232	AA		S
〃	7-C4611	AA		R
〃	7-C4612	AA		R
〃	7-C4613	AA		R
VCCCCY1HH331JY	6-C281	AA		S
VCCCCY1HH391JY	6-C223	AB		S
VCCCCY1HH470JY	4-C318	AA		R
〃	4-C319	AA		R
〃	5-C722	AA		R
〃	7-C4607	AA		R
〃	7-C4610	AA		R
VCCCCY1HH560JY	3-C3021	AB		R
VCCCCY1HH6R0DY	7-C4614	AA		R
〃	7-C4615	AA		R
〃	7-C4616	AA		R
VCCCCY1HH820JY	7-C4617	AA		R
〃	7-C4618	AA		R
〃	7-C4619	AA		R
VCEASX0JN226MY	6-C244	AB		S
〃	7-C4717	AB		R
VCEASX0JN476MY	3-C3048	AC		R
〃	3-C3338	AC		R
〃	3-C3340	AC		R
〃	7-C4030	AC		R
〃	7-C4715	AC		R
VCEASX1AN227MY	6-C226	AD		S
VCEASX1AN336MY	6-C201	AC		S
〃	6-C241	AC		S
VCEASX1CN106MY	3-C1755	AC		R
〃	3-C1756	AC		R
〃	3-C2306	AC		R
〃	3-C2714	AC		R
〃	6-C242	AC		S
〃	6-C246	AC		S
〃	6-C247	AC		S
〃	6-C249	AC		S
〃	6-C252	AC		S
〃	6-C261	AC		S
〃	7-C4008	AC		R
〃	7-C4019	AC		R
〃	7-C4032	AC		R
〃	7-C4201	AC		R
〃	7-C4203	AC		R
〃	7-C4401	AC		R
〃	7-C4412	AC		R
〃	7-C4606	AC		R
〃	7-C4623	AC		R
〃	7-C4625	AC		R
〃	7-C4634	AC		R
〃	7-C4635	AC		R
〃	7-C4639	AC		R
〃	7-C4640	AC		R
〃	7-C4641	AC		R
〃	9-C104	AC		R
VCEASX1CN107MY	4-C1251	AC		R
〃	6-C206	AC		S
〃	6-C221	AC		S
VCEASX1CN226MY	3-C1716	AC		R
〃	3-C1720	AC		R
〃	3-C1733	AC		R
〃	4-C311	AC		R
VCEASX1CN477MY	6-C204	AE		S
VCEASX1HN105MY	3-C2706	AB		R
〃	3-C2707	AB		R
〃	3-C2708	AB		R
〃	3-C2709	AB		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	4-C346	AB		R
〃	4-C347	AB		R
〃	7-C4001	AB		R
VCEASX1HN106MY	4-C324	AC		R
〃	4-C325	AC		R
〃	4-C358	AC		R
〃	4-C359	AC		R
〃	6-C217	AC		S
〃	6-C230	AC		S
VCEASX1HN225MY	4-C306	AB		R
〃	4-C307	AB		R
〃	4-C320	AB		R
〃	4-C321	AB		R
〃	4-C328	AB		R
〃	4-C329	AB		R
〃	6-C237	AB		S
VCEASX1VN226MY	3-C1715	AC		R
〃	4-C348	AC		R
〃	4-C349	AC		R
VCEASY1CN107MY	9-C101	AC		R
VCEASY1CN476MY	3-C1901	AC		R
〃	4-C360	AC		R
〃	4-C1219	AC		R
〃	7-C4710	AC		R
VCEASY1CN477MY	4-C364	AD		R
〃	4-C1130	AD		R
〃	4-C1162	AD		R
VCEASY1HN476MY	4-C356	AD		R
〃	4-C357	AD		R
VCESYA1VM477M+	4-C330	AF	N	R
〃	4-C331	AF	N	R
VCFYAA2JA103K+	5-C781	AC	N	R
〃	5-C782	AC	N	R
VCFYFA1HA334J+	4-C342	AB		R
〃	4-C343	AB		R
VCKYCY1AB105KY	5-C792	AB		R
〃	5-C795	AB		R
〃	5-C796	AB		R
〃	7-C4716	AB		R
VCKYCY1CB104KY	5-C774	AB		R
〃	5-C793	AB		R
〃	5-C798	AB		R
〃	5-C799	AB		R
〃	5-C800	AB		R
〃	5-C801	AB		R
〃	5-C804	AB		R
VCKYCY1CB273KY	4-C301	AB		R
〃	4-C302	AB		R
VCKYCY1CF105ZY	3-C2711	AA		R
〃	3-C2718	AA		R
〃	3-C2719	AA		R
〃	3-C2728	AA		R
VCKYCY1EB104KY	6-C268	AB		S
〃	6-C269	AB		S
VCKYCY1EF104ZY	3-C1702	AA		R
〃	3-C1718	AA		R
〃	3-C1734	AA		R
〃	3-C1739	AA		R
〃	3-C1742	AA		R
〃	3-C1753	AA		R
〃	3-C1754	AA		R
〃	3-C1757	AA		R
〃	3-C1758	AA		R
〃	3-C1903	AA		R
〃	3-C1906	AA		R
〃	3-C1947	AA		R
〃	3-C1953	AA		R
〃	3-C1959	AA		R
〃	3-C2301	AA		R
〃	3-C2302	AA		R
〃	3-C2303	AA		R
〃	3-C2304	AA		R
〃	3-C2305	AA		R
〃	3-C2307	AA		R
〃	3-C2312	AA		R
〃	3-C2701	AA		R
〃	3-C2712	AA		R
〃	3-C2715	AA		R
〃	3-C2722	AA		R
〃	3-C2723	AA		R
〃	3-C2724	AA		R
〃	3-C2727	AA		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	3-C3001	AA		R
〃	3-C3003	AA		R
〃	3-C3007	AA		R
〃	3-C3008	AA		R
〃	3-C3009	AA		R
〃	3-C3011	AA		R
〃	3-C3012	AA		R
〃	3-C3013	AA		R
〃	3-C3015	AA		R
〃	3-C3018	AA		R
〃	3-C3019	AA		R
〃	3-C3023	AA		R
〃	3-C3024	AA		R
〃	3-C3025	AA		R
〃	3-C3028	AA		R
〃	3-C3030	AA		R
〃	3-C3032	AA		R
〃	3-C3033	AA		R
〃	3-C3037	AA		R
〃	3-C3038	AA		R
〃	3-C3042	AA		R
〃	4-C1147	AA		R
〃	4-C1160	AA		R
〃	4-C1253	AA		R
〃	6-C219	AA		S
〃	6-C222	AA		S
〃	6-C234	AA		S
〃	6-C243	AA		S
〃	6-C245	AA		S
〃	6-C255	AA		S
〃	6-C256	AA		S
〃	6-C262	AA		S
〃	6-C263	AA		S
〃	6-C274	AA		S
〃	6-C275	AA		S
〃	7-C4003	AA		R
〃	7-C4004	AA		R
〃	7-C4010	AA		R
〃	7-C4011	AA		R
〃	7-C4012	AA		R
〃	7-C4014	AA		R
〃	7-C4015	AA		R
〃	7-C4017	AA		R
〃	7-C4018	AA		R
〃	7-C4020	AA		R
〃	7-C4021	AA		R
〃	7-C4022	AA		R
〃	7-C4023	AA		R
〃	7-C4024	AA		R
〃	7-C4025	AA		R
〃	7-C4026	AA		R
〃	7-C4027	AA		R
〃	7-C4028	AA		R
〃	7-C4031	AA		R
〃	7-C4033	AA		R
〃	7-C4202	AA		R
〃	7-C4205	AA		R
〃	7-C4207	AA		R
〃	7-C4209	AA		R
〃	7-C4402	AA		R
〃	7-C4403	AA		R
〃	7-C4404	AA		R
〃	7-C4405	AA		R
〃	7-C4406	AA		R
〃	7-C4407	AA		R
〃	7-C4408	AA		R
〃	7-C4409	AA		R
〃	7-C4410	AA		R
〃	7-C4411	AA		R
〃	7-C4621	AA		R
〃	7-C4624	AA		R
〃	7-C4626	AA		R
〃	7-C4629	AA		R
〃	7-C4703	AA		R
〃	7-C4706	AA		R
〃	7-C4708	AA		R
〃	7-C4713	AA		R
〃	7-C4714	AA		R
VCKYCY1HB102KY	3-C1741	AA		R
〃	3-C1912	AA		R
〃	3-C1913	AA		R
〃	3-C1916	AA		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	3-C1917	AA		R
〃	3-C1923	AA		R
〃	3-C1924	AA		R
〃	3-C1927	AA		R
〃	3-C1930	AA		R
〃	3-C1936	AA		R
〃	3-C1941	AA		R
〃	3-C1943	AA		R
〃	3-C1946	AA		R
〃	3-C1948	AA		R
〃	3-C1955	AA		R
〃	3-C1956	AA		R
〃	3-C1960	AA		R
〃	3-C1965	AA		R
〃	3-C1967	AA		R
〃	3-C1968	AA		R
〃	3-C1969	AA		R
〃	3-C1971	AA		R
〃	3-C1973	AA		R
〃	3-C1974	AA		R
〃	3-C1975	AA		R
〃	3-C3049	AA		R
〃	4-C354	AA		R
〃	4-C355	AA		R
〃	4-C1119	AA		R
〃	4-C1120	AA		R
〃	4-C1134	AA		R
〃	4-C1135	AA		R
〃	4-C1201	AA		R
〃	4-C1211	AA		R
〃	4-C1217	AA		R
〃	6-C233	AA		S
〃	6-C272	AA		S
VCKYCY1HB103KY	3-C1711	AA		R
〃	3-C1928	AA		R
〃	3-C3044	AA		R
〃	3-C3045	AA		R
〃	4-C350	AA		R
〃	4-C351	AA		R
〃	4-C352	AA		R
〃	4-C353	AA		R
〃	6-C218	AA		S
〃	6-C257	AA		S
〃	6-C258	AA		S
〃	6-C276	AA		S
〃	7-C4002	AA		R
〃	7-C4005	AA		R
〃	7-C4009	AA		R
〃	7-C4013	AA		R
〃	7-C4016	AA		R
〃	7-C4029	AA		R
〃	7-C4204	AA		R
〃	7-C4206	AA		R
VCKYCY1HB104KY	3-C1760	AA		R
〃	3-C2308	AA		R
〃	3-C2309	AA		R
〃	3-C2310	AA		R
〃	3-C2729	AA		R
〃	3-C3014	AA		R
〃	3-C3016	AA		R
〃	3-C3020	AA		R
〃	4-C305	AA		R
〃	4-C308	AA		R
〃	5-C716	AA		R
〃	5-C717	AA		R
〃	5-C720	AA		R
〃	5-C730	AA		R
〃	5-C732	AA		R
〃	5-C763	AA		R
〃	5-C764	AA		R
〃	5-C765	AA		R
〃	5-C772	AA		R
〃	5-C789	AA		R
〃	5-C790	AA		R
〃	7-C4636	AA		R
〃	7-C4637	AA		R
〃	7-C4638	AA		R
VCKYCY1HB152KY	6-C225	AA		S
〃	7-C4705	AA		R
VCKYCY1HB153KY	4-C314	AA		R
〃	4-C315	AA		R
〃	4-C326	AA		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	4-C327	AA		R
VCKYCY1HB221KY	3-C1749	AA		R
〃	3-C2725	AA		R
〃	4-C332	AA		R
〃	4-C333	AA		R
〃	4-C334	AA		R
〃	4-C335	AA		R
〃	4-C1114	AA		R
〃	4-C1116	AA		R
VCKYCY1HB222KY	4-C309	AA		R
〃	4-C310	AA		R
〃	4-C312	AA		R
〃	4-C313	AA		R
〃	4-C365	AA		R
〃	4-C366	AA		R
〃	5-C733	AA		R
VCKYCY1HB272KY	3-C1717	AA		R
〃	3-C1730	AA		R
〃	5-C771	AA		R
VCKYCY1HB331KY	4-C1122	AA		R
〃	4-C1123	AA		R
〃	4-C1139	AA		R
〃	4-C1140	AA		R
VCKYCY1HB332KY	5-C728	AA		R
〃	7-C4627	AA		R
〃	7-C4628	AA		R
〃	7-C4632	AA		R
〃	7-C4633	AA		R
VCKYCY1HB471KY	4-C1125	AA		R
〃	4-C1126	AA		R
〃	4-C1143	AA		R
〃	4-C1144	AA		R
VCKYCY1HB472KY	5-C745	AA		R
VCKYCY1HF103ZY	4-C1131	AA		R
〃	4-C1159	AA		R
〃	4-C1202	AA		R
〃	6-C205	AA		S
〃	6-C207	AA		S
〃	6-C215	AA		S
〃	6-C216	AA		S
〃	6-C220	AA		S
〃	6-C227	AA		S
〃	6-C231	AA		S
〃	6-C236	AA		S
〃	6-C248	AA		S
〃	6-C250	AA		S
〃	6-C251	AA		S
〃	6-C253	AA		S
〃	6-C254	AA		S
〃	6-C266	AA		S
〃	6-C267	AA		S
〃	6-C271	AA		S
〃	9-C105	AA		R
VCKYCY1HF224ZY	4-C303	AA		R
〃	4-C304	AA		R
〃	4-C322	AA		R
〃	4-C323	AA		R
VCKYTV1CB105KY	4-C1121	AC		R
〃	4-C1124	AC		R
〃	4-C1138	AC		R
〃	4-C1142	AC		R
〃	4-C1212	AC		R
〃	4-C1218	AC		R
〃	4-C1252	AC		R
〃	7-C4702	AC		R
VCKYTV1CB224KY	6-C224	AB		S
VCKYTV1CB474KY	6-C228	AC		S
VCKYTV1CF225ZY	9-C102	AB		R
VCKYTV1EB104KY	3-C2710	AB		R
〃	3-C2726	AB		R
〃	4-C1101	AB		R
〃	4-C1102	AB		R
〃	4-C1103	AB		R
〃	4-C1105	AB		R
〃	4-C1106	AB		R
〃	4-C1107	AB		R
VCKYTV1EB224KY	4-C340	AA		R
〃	4-C341	AA		R
〃	4-C362	AA		R
〃	4-C363	AA		R
VCKYTV1HB103KY	3-C2731	AA		R
〃	3-C2732	AA		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VCKYTV1HB683KY	5-C749	AB		R
〃	5-C753	AB		R
VHD1SS226//-1Y	3-D2310	AC		R
〃	3-D2311	AC		R
〃	3-D2312	AC		R
VHD1SS355//-1Y	3-D1903	AB		R
〃	3-D1905	AB		R
〃	5-D707	AB		R
〃	5-D722	AB		R
〃	5-D742	AB		R
〃	5-D747	AB		R
〃	5-D752	AB		R
〃	5-D755	AB		R
〃	5-D757	AB		R
〃	5-D765	AB		R
〃	5-D767	AB		R
〃	5-D773	AB		R
〃	5-D774	AB		R
〃	5-D775	AB		R
〃	5-D779	AB		R
VHD1SS390++-1Y	4-D306	AB		R
〃	4-D307	AB		R
〃	4-D308	AB		R
〃	4-D309	AB		R
〃	4-D310	AB		R
〃	4-D318	AB		R
〃	6-D201	AB		S
〃	6-D203	AB		S
〃	6-D204	AB		S
〃	6-D205	AB		S
〃	6-D206	AB		S
〃	6-D207	AB		S
VHDD1FL20U/-1Y	5-D715	AC		R
〃	5-D717	AC		R
〃	5-D724	AC		R
〃	5-D725	AC		R
〃	5-D726	AC		R
〃	5-D761	AC		R
VHDDAN202K/-1Y	3-D1901	AB		R
〃	3-D2309	AB		R
VHDHSU119//-1Y	3-D1703	AB		R
〃	3-D1705	AB		R
〃	3-D1706	AB		R
〃	7-D4703	AB		R
VHDSF6L20U+-1	5-D735	AG		R
VHDSFPA73//2EY	3-D1704	AD		R
〃	3-D1708	AD		R
〃	7-D4702	AD		R
VHDU05NU44+-1Y	5-D716	AE		R
〃	5-D720	AE		R
〃	5-D777	AE		R
〃	5-D778	AE		R
VHEST03D170-1	5-D728	AG	N	R
〃	5-D729	AG	N	R
〃	5-D762	AG	N	R
VHEST03D-82-1	5-D771	AG	N	R
VHHM1103J03-1Y	3-TH3002	AC		R
VHi24LC2BiNEES	3-iC1901			J
VHiBR24L64F-1Y	3-iC3001	AK		R
〃	7-iC4204	AK		R
VHiBU4215G+-1Y	3-iC3005	AE		R
VHiBU4228G+-1Y	7-iC4003	AD		R
VHiBU4239G+-1Y	3-iC1701	AE		R
VHiiSL83220-1Y	3-iC2301	AQ		R
VHiLCX244FT-1Y	7-iC4404	AE		R
VHiLCX573FT-1Y	7-iC4402	AF		R
〃	7-iC4405	AF		R
VHiLV4053AT-1Y	6-iC204	AE		S
VHiMM1506XN-1Y	4-iC1101	AD		R
〃	4-iC1102	AD		R
VHiMM1507XN-1Y	3-iC2702	AD		R
〃	3-iC2705	AD		R
〃	4-iC1201	AD		R
VHiMM3033E+-1Y	6-iC206	AD	N	S
VHiMP1410ES-1Y	3-iC1706	AP		R
〃	3-iC1708	AP		R
VHiMP1583++-1Y	7-iC4701	AH		R
VHiMR4020++-1	5-iC705	AQ		R
VHiMR4030++-1	5-iC704	AR		R
VHiNJM2903M-1Y	5-iC709	AE	N	R
VHiNJM2904M-1Y	5-iC708	AE		R
VHiNJM4558M-1Y	4-iC303	AD		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VHiPQ018ENA-1Y	7-iC4704	AF	N	R
VHiPQ1M185M-1Y	6-iC205	AD		S
VHiPQ1R50//-1Y	3-iC1711	AF		R
VHiPQ20WZ11-1Y	3-iC1702	AF		R
〃	3-iC1703	AF		R
〃	3-iC1707	AF		R
VHiSii9023+-1Q	3-iC1905	BD		R
VHiTA76431R-1Y	5-iC706	AE	N	R
〃	5-iC707	AE	N	R
VHiTC4052BT-1Y	3-iC2704	AF		R
VHiTC7SH02U1EY	7-iC4408			R
VHiTC7SH08U-1Y	7-iC4002	AF		R
〃	7-iC4403	AF		R
VHiTC7SH32U1EY	7-iC4406			R
〃	7-iC4407			R
VHiTC7SHU04-1Y	7-iC4005			R
VHiTC7W53U/-1Y	6-iC203	AF		S
VHiTCLCX245-2Y	7-iC4401	AE		R
VHiTDA8931T-1Y	4-iC301	AS	N	R
〃	4-iC302	AS	N	R
VHiTDA9886+-1Y	6-iC201	AV		S
VHiTPS850++-1Y	9-iC101	AG		R
VHiTSH73CPT-1Y	7-iC4604	AL	N	R
VHiTVHC153T-1Y	3-iC2701	AE		R
VPCKM330J3R9NY	6-L213	AB		S
VPCNN100J1R6NY	6-L203	AB		S
VPCNN120J1R9NY	6-L204	AB	N	S
VPCNN2R2JR77NY	6-L207	AB	N	S
〃	6-L208	AB	N	S
〃	6-L209	AB	N	S
〃	6-L210	AB	N	S
VPCNN330J4R2NY	6-L205	AC		S
VPCUN1R5MR12NY	3-L2701	AC		R
〃	6-L206	AC	N	S
VPD9M100J1R7NY	7-L4601	AC		R
VPD9M5R6J1R6NY	7-L4603	AB		R
〃	7-L4604	AB		R
〃	7-L4605	AB		R
VPD9MR18JR21NY	6-L212	AB	N	S
VRD-RA2BE182JY	8-R151	AA		R
VRD-RA2BE431JY	8-R152	AA	N	R
VRD-RA2BE432JY	8-R155	AA	N	R
VRD-RA2BE822JY	8-R153	AA		R
VRD-RA2BE911JY	8-R156	AA	N	R
VRN-VV3DBR10J	5-R751	AB		R
VRN-VV3DBR15J	5-R760	AB		R
VRS-CH1JF000JY	6-R272	AA		S
〃	6-R273	AA		S
〃	7-R4027	AA		R
VRS-CH1JF100JY	3-R1920	AA		R
〃	3-R1921	AA		R
〃	3-R1922	AA		R
〃	3-R1923	AA		R
〃	3-R1924	AA		R
〃	3-R1925	AA		R
〃	3-R1927	AA		R
VRS-CH1JF101JY	3-R2333	AA		R
VRS-CH1JF103JY	3-R2302	AA		R
〃	3-R2305	AA		R
〃	6-R245	AA		S
〃	7-R4036	AA		R
〃	7-R4223	AA		R
〃	7-R4224	AA		R
VRS-CH1JF104JY	3-R2708	AA		R
〃	3-R2709	AA		R
VRS-CH1JF470JY	7-R4030	AA		R
〃	7-R4031	AA		R
〃	7-R4201	AA		R
〃	7-R4202	AA		R
〃	7-R4203	AA		R
〃	7-R4204	AA		R
〃	7-R4205	AA		R
〃	7-R4206	AA		R
〃	7-R4207	AA		R
〃	7-R4208	AA		R
〃	7-R4209	AA		R
〃	7-R4211	AA		R
〃	7-R4212	AA		R
〃	7-R4213	AA		R
〃	7-R4214	AA		R
〃	7-R4215	AA		R
〃	7-R4216	AA		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	7-R4217	AA		R
〃	7-R4218	AA		R
〃	7-R4401	AA		R
〃	7-R4402	AA		R
〃	7-R4403	AA		R
〃	7-R4404	AA		R
〃	7-R4407	AA		R
〃	7-R4408	AA		R
〃	7-R4410	AA		R
〃	7-R4411	AA		R
〃	7-R4412	AA		R
〃	7-R4413	AA		R
〃	7-R4414	AA		R
〃	7-R4415	AA		R
〃	7-R4416	AA		R
〃	7-R4421	AA		R
〃	7-R4422	AA		R
〃	7-R4427	AA		R
〃	7-R4428	AA		R
〃	7-R4429	AA		R
VRS-CJ1JF100JY	3-R1914	AA		R
VRS-CJ1JF101JY	3-R1934	AA		R
〃	3-R2307	AA		R
〃	3-R2315	AA		R
〃	3-R2702	AA		R
〃	3-R3004	AA		R
〃	3-R3009	AA		R
〃	4-R1139	AA		R
〃	4-R1152	AA		R
VRS-CJ1JF102JY	4-R301	AA		R
VRS-CJ1JF103JY	3-R2704	AA		R
〃	3-R2710	AA		R
〃	3-R2711	AA		R
〃	3-R2716	AA		R
〃	4-R327	AA		R
〃	4-R333	AA		R
〃	4-R345	AA		R
VRS-CJ1JF104JY	4-R307	AA		R
VRS-CJ1JF224JY	3-R2706	AA		R
〃	3-R2707	AA		R
VRS-CJ1JF272JY	4-R1143	AA		R
〃	4-R1158	AA		R
VRS-CJ1JF331JY	4-R1140	AA		R
〃	4-R1155	AA		R
VRS-CJ1JF392JY	4-R328	AA		R
VRS-CJ1JF472JY	3-R2712	AA		R
〃	3-R2713	AA		R
〃	3-R3005	AA		R
〃	3-R3008	AA		R
〃	4-R302	AA		R
〃	4-R306	AA		R
〃	6-R263	AA		S
VRS-CJ1JF473JY	3-R1913	AB		R
〃	3-R2703	AB		R
VRS-CJ1JF474JY	3-R1911	AA		R
VRS-CY1JF000JY	3-R1704	AA		R
〃	3-R1705	AA		R
〃	3-R1707	AA		R
〃	3-R1714	AA		R
〃	3-R2301	AA		R
〃	3-R2321	AA		R
〃	3-R2724	AA		R
〃	3-R3017	AA		R
〃	3-R3018	AA		R
〃	4-R358	AA		R
〃	4-R1104	AA		R
〃	4-R1105	AA		R
〃	4-R1106	AA		R
〃	4-R1110	AA		R
〃	4-R1115	AA		R
〃	4-R1120	AA		R
〃	4-R1126	AA		R
〃	4-R1130	AA		R
〃	4-R1137	AA		R
〃	4-R1138	AA		R
〃	4-R1228	AA		R
〃	5-RJ1	AA		R
〃	5-RJ2	AA		R
〃	5-RJ3	AA		R
〃	5-RJ4	AA		R
〃	6-R206	AA		S
〃	6-R211	AA		S

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	6-R213	AA		S
〃	6-R247	AA		S
〃	6-R266	AA		S
〃	6-R267	AA		S
〃	6-R268	AA		S
〃	6-R269	AA		S
〃	6-R274	AA		S
〃	6-R281	AA		S
〃	6-R282	AA		S
〃	6-R283	AA		S
〃	6-R288	AA		S
〃	6-R293	AA		S
〃	6-R294	AA		S
〃	7-R4001	AA		R
〃	7-R4004	AA		R
〃	7-R4010	AA		R
〃	7-R4018	AA		R
〃	7-R4019	AA		R
〃	7-R4024	AA		R
〃	7-R4025	AA		R
〃	7-R4626	AA		R
〃	7-R4674	AA		R
VRS-CY1JF100JY	3-R1919	AA		R
〃	3-R2313	AA		R
VRS-CY1JF101JY	3-R1724	AA		R
〃	3-R1733	AA		R
〃	3-R1743	AA		R
〃	3-R1761	AA		R
〃	3-R1771	AA		R
〃	3-R2714	AA		R
〃	3-R2717	AA		R
〃	3-R2722	AA		R
〃	4-R349	AA		R
〃	4-R350	AA		R
〃	4-R1201	AA		R
〃	6-R235	AA		S
〃	6-R236	AA		S
〃	6-R239	AA		S
〃	6-R243	AA		S
〃	6-R264	AA		S
〃	6-R265	AA		S
〃	7-R4016	AA		R
〃	7-R4038	AA		R
〃	7-R4039	AA		R
〃	7-R4190	AA		R
〃	7-R4191	AA		R
〃	7-R4192	AA		R
〃	7-R4193	AA		R
〃	7-R4194	AA		R
〃	7-R4195	AA		R
〃	7-R4196	AA		R
〃	7-R4197	AA		R
〃	7-R4657	AA		R
〃	7-R4658	AA		R
〃	7-R4710	AA		R
〃	7-R4717	AA		R
〃	9-R101	AA		R
VRS-CY1JF102FY	3-R2339	AA		R
〃	3-R2343	AA		R
VRS-CY1JF102JY	3-R1731	AA		R
〃	3-R1736	AA		R
〃	3-R2326	AA		R
〃	3-R2335	AA		R
〃	3-R2715	AA		R
〃	3-R2719	AA		R
〃	3-R3001	AA		R
〃	4-R310	AA		R
〃	4-R311	AA		R
〃	4-R312	AA		R
〃	4-R313	AA		R
〃	4-R353	AA		R
〃	4-R354	AA		R
〃	4-R1134	AA		R
〃	4-R1144	AA		R
〃	4-R1145	AA		R
〃	4-R1147	AA		R
〃	4-R1159	AA		R
〃	4-R1160	AA		R
〃	4-R1177	AA		R
〃	4-R1179	AA		R
〃	4-R1210	AA		R
〃	4-R1211	AA		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	4-R1213	AA		R
〃	4-R1214	AA		R
〃	4-R1226	AA		R
〃	4-R1227	AA		R
〃	6-R271	AA		S
〃	7-R4447	AA		R
VRS-CY1JF103FY	3-R2334	AA		R
VRS-CY1JF103JY	3-R1709	AA		R
〃	3-R1711	AA		R
〃	3-R1712	AA		R
〃	3-R1720	AA		R
〃	3-R1722	AA		R
〃	3-R1767	AA		R
〃	3-R1768	AA		R
〃	3-R1769	AA		R
〃	3-R1770	AA		R
〃	3-R1772	AA		R
〃	3-R1908	AA		R
〃	3-R1917	AA		R
〃	3-R1937	AA		R
〃	3-R2314	AA		R
〃	3-R2329	AA		R
〃	3-R2342	AA		R
〃	3-R2701	AA		R
〃	3-R2705	AA		R
〃	3-R3003	AA		R
〃	3-R3012	AA		R
〃	3-R3013	AA		R
〃	4-R321	AA		R
〃	4-R322	AA		R
〃	4-R351	AA		R
〃	4-R352	AA		R
〃	4-R356	AA		R
〃	6-R226	AA		S
〃	6-R227	AA		S
〃	6-R241	AA		S
〃	6-R284	AA		S
〃	6-R285	AA		S
〃	6-R289	AA		S
〃	7-R4003	AA		R
〃	7-R4005	AA		R
〃	7-R4006	AA		R
〃	7-R4007	AA		R
〃	7-R4008	AA		R
〃	7-R4011	AA		R
〃	7-R4012	AA		R
〃	7-R4013	AA		R
〃	7-R4015	AA		R
〃	7-R4017	AA		R
〃	7-R4026	AA		R
〃	7-R4028	AA		R
〃	7-R4032	AA		R
〃	7-R4035	AA		R
〃	7-R4037	AA		R
〃	7-R4225	AA		R
〃	7-R4226	AA		R
〃	7-R4227	AA		R
〃	7-R4228	AA		R
〃	7-R4229	AA		R
〃	7-R4230	AA		R
〃	7-R4231	AA		R
〃	7-R4232	AA		R
〃	7-R4247	AA		R
〃	7-R4409	AA		R
〃	7-R4417	AA		R
〃	7-R4419	AA		R
〃	7-R4420	AA		R
〃	7-R4425	AA		R
〃	7-R4426	AA		R
〃	7-R4431	AA		R
〃	7-R4432	AA		R
〃	7-R4441	AA		R
〃	7-R4666	AA		R
〃	7-R4668	AA		R
〃	7-R4670	AA		R
〃	7-R4672	AA		R
〃	7-R4673	AA		R
〃	7-R4705	AA		R
〃	7-R4706	AA		R
〃	7-R4707	AA		R
〃	7-R4712	AA		R
VRS-CY1JF104JY	3-R1756	AA		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	3-R2720	AA		R
〃	3-R2721	AA		R
〃	4-R1150	AA		R
〃	4-R1153	AA		R
〃	4-R1154	AA		R
〃	4-R1173	AA		R
〃	4-R1212	AA		R
〃	4-R1215	AA		R
〃	6-R201	AA		S
〃	7-R4009	AA		R
VRS-CY1JF105JY	3-R1932	AA		R
VRS-CY1JF122JY	4-R319	AA		R
〃	4-R320	AA		R
〃	5-R801	AA		R
〃	5-R809	AA		R
〃	5-R812	AA		R
〃	5-R820	AA		R
〃	5-R868	AA		R
〃	5-R871	AA		R
〃	5-R873	AA		R
〃	9-R109	AA		R
VRS-CY1JF123JY	5-R859	AA		R
〃	5-R867	AA		R
〃	6-R204	AA		S
〃	6-R209	AA		S
VRS-CY1JF132JY	3-R1745	AG		R
VRS-CY1JF151JY	6-R238	AA		S
〃	6-R259	AA		S
VRS-CY1JF152JY	3-R1903	AA		R
〃	3-R1933	AA		R
VRS-CY1JF153FY	4-R1101	AA		R
〃	4-R1102	AA		R
〃	7-R4703	AA		R
VRS-CY1JF153JY	6-R248	AA		S
VRS-CY1JF161FY	7-R4665	AA		R
〃	7-R4667	AA		R
〃	7-R4669	AA		R
VRS-CY1JF181JY	6-R290	AA		S
VRS-CY1JF183JY	7-R4651	AA		R
〃	7-R4652	AA		R
VRS-CY1JF201FY	7-R4002	AA		R
VRS-CY1JF202FY	3-R1729	AA		R
〃	3-R1732	AA		R
〃	3-R1735	AA		R
〃	3-R1748	AA		R
VRS-CY1JF202JY	3-R1746	AA		R
VRS-CY1JF220JY	3-R1762	AA		R
〃	3-R1763	AA		R
〃	3-R1764	AA		R
〃	3-R3002	AA		R
〃	3-R3306	AA		R
〃	3-R3307	AA		R
〃	3-R3308	AA		R
VRS-CY1JF221JY	4-R1131	AA		R
〃	4-R1161	AA		R
〃	6-R244	AA		S
VRS-CY1JF222FY	3-R1734	AA		R
VRS-CY1JF222JY	4-R303	AA		R
〃	4-R304	AA		R
〃	4-R305	AA		R
〃	4-R330	AA		R
〃	4-R331	AA		R
〃	5-R870	AA		R
〃	6-R219	AA		S
〃	7-R4021	AA		R
VRS-CY1JF223JY	3-R1928	AA		R
〃	6-R228	AA		S
〃	6-R229	AA		S
VRS-CY1JF224JY	5-R743	AA		R
VRS-CY1JF240JY	7-R4634	AA		R
〃	7-R4635	AA		R
〃	7-R4636	AA		R
〃	7-R4637	AA		R
VRS-CY1JF242FY	7-R4628	AA		R
VRS-CY1JF271FY	7-R4619	AA		R
〃	7-R4620	AA		R
〃	7-R4621	AA		R
〃	7-R4622	AA		R
〃	7-R4623	AA		R
〃	7-R4624	AA		R
〃	7-R4662	AA		R
〃	7-R4663	AA		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	7-R4664	AA		R
VRS-CY1JF271JY	4-R1216	AA		R
〃	4-R1219	AA		R
〃	6-R234	AA		S
〃	9-R108	AA		R
VRS-CY1JF272FY	7-R4627	AA		R
VRS-CY1JF272JY	3-R1901	AA		R
〃	4-R325	AA		R
〃	4-R326	AA		R
〃	4-R1218	AA		R
〃	4-R1222	AA		R
〃	5-R861	AA		R
〃	5-R862	AA		R
VRS-CY1JF273FY	7-R4702	AA		R
VRS-CY1JF330JY	3-R1935	AA		R
〃	3-R1936	AA		R
〃	7-R4029	AA		R
VRS-CY1JF331FY	7-R4617	AA		R
〃	7-R4618	AA		R
〃	7-R4659	AA		R
VRS-CY1JF331JY	4-R1217	AA		R
〃	4-R1221	AA		R
〃	6-R232	AA		S
〃	6-R237	AA		S
〃	6-R240	AA		S
VRS-CY1JF332JY	3-R1727	AA		R
〃	3-R1728	AA		R
〃	5-R869	AA		R
〃	6-R251	AA		S
〃	6-R291	AA		S
〃	6-R292	AA		S
〃	7-R4708	AA		R
VRS-CY1JF333JY	5-R864	AA		R
〃	5-R865	AA		R
VRS-CY1JF392JY	4-R314	AA		R
〃	4-R316	AA		R
〃	4-R1202	AA		R
〃	6-R242	AA		S
VRS-CY1JF393FY	3-R2341	AA		R
〃	4-R1103	AA		R
〃	4-R1108	AA		R
VRS-CY1JF470FY	7-R4616	AA		R
VRS-CY1JF470JY	3-R1715	AA		R
〃	3-R1717	AA		R
〃	3-R1718	AA		R
〃	3-R1730	AA		R
〃	3-R1752	AA		R
〃	6-R207	AA		S
〃	6-R208	AA		S
〃	6-R255	AA		S
〃	6-R256	AA		S
〃	7-R4210	AA		R
〃	7-R4219	AA		R
〃	7-R4220	AA		R
〃	7-R4221	AA		R
〃	7-R4222	AA		R
〃	7-R4233	AA		R
〃	7-R4234	AA		R
〃	7-R4235	AA		R
〃	7-R4236	AA		R
〃	7-R4237	AA		R
〃	7-R4238	AA		R
〃	7-R4239	AA		R
〃	7-R4240	AA		R
〃	7-R4241	AA		R
〃	7-R4242	AA		R
〃	7-R4243	AA		R
〃	7-R4244	AA		R
〃	7-R4246	AA		R
〃	7-R4248	AA		R
〃	7-R4250	AA		R
〃	7-R4251	AA		R
〃	7-R4405	AA		R
〃	7-R4406	AA		R
〃	7-R4418	AA		R
〃	7-R4433	AA		R
〃	7-R4434	AA		R
〃	7-R4601	AA		R
〃	7-R4602	AA		R
〃	7-R4603	AA		R
〃	7-R4604	AA		R
〃	7-R4605	AA		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	7-R4606	AA		R
〃	7-R4607	AA		R
〃	7-R4608	AA		R
〃	7-R4609	AA		R
〃	7-R4629	AA		R
〃	7-R4630	AA		R
〃	7-R4643	AA		R
〃	7-R4644	AA		R
〃	7-R4645	AA		R
〃	7-R4646	AA		R
〃	7-R4647	AA		R
〃	7-R4648	AA		R
〃	7-R4649	AA		R
〃	7-R4650	AA		R
〃	7-R4675	AA		R
VRS-CY1JF471JY	7-R4430	AA		R
〃	7-R4631	AA		R
〃	7-R4632	AA		R
〃	7-R4639	AA		R
〃	7-R4640	AA		R
〃	9-R112	AA		R
VRS-CY1JF472JY	3-R1926	AA		R
〃	3-R1929	AA		R
〃	3-R2309	AA		R
〃	3-R3006	AA		R
〃	3-R3010	AA		R
〃	3-R3014	AA		R
〃	4-R360	AA		R
〃	5-R860	AA		R
〃	5-R863	AA		R
〃	5-R872	AA		R
〃	7-R4020	AA		R
〃	7-R4633	AA		R
〃	7-R4638	AA		R
VRS-CY1JF473JY	3-R1906	AA		R
〃	3-R2332	AA		R
〃	4-R308	AA		R
〃	4-R309	AA		R
〃	4-R323	AA		R
〃	4-R324	AA		R
〃	5-R866	AA		R
〃	6-R205	AA		S
〃	7-R4660	AA		R
〃	7-R4661	AA		R
VRS-CY1JF474FY	7-R4701	AA		R
VRS-CY1JF474JY	4-R315	AA		R
〃	4-R317	AA		R
VRS-CY1JF4R7JY	3-R2723	AA		R
VRS-CY1JF511FY	3-R1726	AA		R
〃	3-R1747	AA		R
VRS-CY1JF514JY	6-R270	AA		S
VRS-CY1JF560JY	4-R346	AA		R
〃	4-R347	AA		R
VRS-CY1JF562FY	3-R1721	AA		R
〃	3-R1744	AA		R
VRS-CY1JF562JY	3-R1713	AA		R
〃	3-R1716	AA		R
〃	3-R1737	AA		R
〃	3-R1755	AA		R
〃	6-R223	AA		S
〃	6-R224	AA		S
〃	6-R230	AA		S
〃	7-R4245	AA		R
〃	7-R4249	AA		R
〃	7-R4704	AA		R
VRS-CY1JF564JY	4-R1141	AA		R
〃	4-R1142	AA		R
〃	4-R1156	AA		R
〃	4-R1157	AA		R
〃	4-R1224	AA		R
〃	4-R1225	AA		R
VRS-CY1JF622FY	3-R1719	AA		R
〃	3-R1723	AA		R
〃	3-R1753	AA		R
〃	3-R1754	AA		R
VRS-CY1JF622JY	3-R3007	AA		R
VRS-CY1JF681JY	6-R202	AA		S
〃	6-R246	AA		S
VRS-CY1JF682JY	4-R329	AA		R
〃	4-R334	AA		R
〃	4-R1203	AA		R
VRS-CY1JF683JY	6-R203	AA		S

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRS-CY1JF750JY	4-R1204	AA		R
VRS-CY1JF821JY	6-R233	AA		S
〃	9-R114	AA		R
VRS-CY1JF910FY	3-R1930	AA		R
〃	3-R1931	AA		R
VRS-TQ2BD000JY	5-R770	AA		R
〃	5-R835	AA		R
〃	5-R857	AA		R
VRS-TQ2BD330JY	6-R231	AA		S
VRS-TQ2EF122JY	5-R817	AA		R
VRS-TQ2EF124FY	5-R730	AA	N	R
〃	5-R731	AA	N	R
〃	5-R732	AA	N	R
〃	5-R877	AA	N	R
〃	5-R878	AA	N	R
VRS-TQ2EF220JY	5-R828	AA		R
VRS-TQ2EF221JY	5-R851	AA		R
〃	5-R852	AA		R
VRS-TQ2EF223FY	5-R833	AA	N	R
VRS-TQ2EF332JY	5-R824	AA		R
VRS-TQ2EF391JY	5-R767	AA		R
VRS-TV1JD000JY	5-R752	AA		R
VRS-TV1JD102JY	5-R776	AA		R
〃	5-R782	AA		R
VRS-TV1JD103FY	5-R747	AA		R
VRS-TV1JD103JY	5-R741	AA		R
〃	5-R742	AA		R
〃	5-R746	AA		R
〃	5-R748	AA		R
〃	5-R757	AA		R
〃	5-R759	AA		R
〃	5-R761	AA		R
〃	5-R764	AA		R
〃	5-R766	AA		R
〃	5-R773	AA		R
〃	5-R774	AA		R
〃	5-R779	AA		R
〃	5-R785	AA		R
〃	5-R787	AA		R
〃	5-R791	AA		R
〃	5-R793	AA		R
〃	5-R823	AA		R
〃	5-R825	AA		R
〃	5-R831	AA		R
〃	5-R834	AA		R
〃	5-R836	AA		R
VRS-TV1JD104FY	5-R797	AA		R
VRS-TV1JD104JY	5-R765	AA		R
VRS-TV1JD133JY	5-R753	AA		R
VRS-TV1JD153FY	5-R775	AA		R
VRS-TV1JD183FY	5-R756	AA		R
VRS-TV1JD202FY	5-R788	AA		R
VRS-TV1JD203FY	5-R755	AA		R
〃	5-R795	AA		R
VRS-TV1JD221JY	4-R1107	AA		R
〃	4-R1109	AA		R
〃	4-R1146	AA		R
〃	4-R1148	AA		R
VRS-TV1JD223JY	5-R783	AA		R
VRS-TV1JD224JY	5-R805	AA		R
VRS-TV1JD242FY	5-R777	AA		R
〃	5-R778	AA		R
〃	5-R781	AA		R
VRS-TV1JD242JY	5-R784	AA		R
VRS-TV1JD272JY	5-R792	AA		R
〃	5-R796	AA		R
〃	5-R858	AA		R
VRS-TV1JD563JY	5-R727	AA		R
VRS-TV1JD564JY	5-R740	AA		R
〃	5-R758	AA		R
VRS-TV1JD681FY	5-R789	AA		R
VRS-TV1JD682JY	5-R780	AA		R
VRS-TV1JD821FY	5-R794	AA		R
VRS-TV1JD912JY	5-R745	AA		R
VRS-TW2ED000JY	4-R343	AB		R
VRS-TW2ED100JY	4-R335	AA		R
〃	4-R336	AA		R
〃	4-R337	AA		R
〃	4-R338	AA		R
VRS-TW2ED101JY	4-R1119	AA		R
〃	4-R1128	AA		R
VRS-TW2ED220JY	4-R339	AB		R
〃	4-R340	AB		R
VRS-TW2ED2R7JY	4-R355	AB		R
VRS-TW2ED680JY	4-R1111	AA		R
〃	4-R1112	AA		R
VRS-TW2ED750JY	3-R2322	AA		R
〃	3-R2324	AA		R
〃	3-R2325	AA		R
〃	4-R1113	AA		R
〃	4-R1114	AA		R
〃	4-R1116	AA		R
〃	4-R1117	AA		R
〃	4-R1118	AA		R
〃	4-R1121	AA		R
〃	4-R1123	AA		R
〃	4-R1125	AA		R
〃	4-R1127	AA		R
〃	4-R1129	AA		R
〃	4-R1206	AA		R
〃	4-R1209	AA		R
VRS-TW2HF1R0JY	3-R1739	AA		R
〃	3-R1740	AA		R
〃	3-R1741	AA		R
〃	3-R1742	AA		R
〃	3-R1757	AA		R
〃	3-R1758	AA		R
〃	3-R1759	AA		R
〃	3-R1760	AA		R
VRS-TW2HF330JY	6-R215	AA		S
VRS-TW2HF3R3JY	6-R214	AA	N	S
〃	6-R275	AA	N	S
〃	6-R276	AA	N	S
VRS-TW2HF820JY	4-R318	AB	N	R
VRS-TX2HF000JY	7-R4709	AB		R
〃	7-R4711	AB		R
〃	7-R4715	AB		R
〃	7-R4716	AB		R
VRS-TX2HF1R0JY	7-R4713	AB		R
VRS-VV3DB102J	5-R854	AA		R
VS2SA1530AR-1Y	3-Q1705	AB		R
〃	4-Q307	AB		R
〃	4-Q1103	AB		R
〃	4-Q1104	AB		R
〃	4-Q1107	AB		R
〃	4-Q1108	AB		R
〃	4-Q1201	AB		R
〃	4-Q1202	AB		R
〃	6-Q204	AB		S
〃	7-Q4201	AB		R
VS2SC3928AR-1Y	3-Q1703	AB		R
〃	3-Q1704	AB		R
〃	3-Q2703	AB		R
〃	3-Q2704	AB		R
〃	3-Q2705	AB		R
〃	3-Q2706	AB		R
〃	4-Q301	AB		R
〃	4-Q302	AB		R
〃	5-Q702	AB		R
〃	5-Q704	AB		R
〃	5-Q708	AB		R
〃	5-Q710	AB		R
〃	5-Q712	AB		R
〃	5-Q713	AB		R
〃	5-Q721	AB		R
〃	5-Q726	AB		R
〃	6-Q203	AB		S
〃	7-Q4001	AB		R
〃	7-Q4002	AB		R
〃	7-Q4601	AB		R
〃	7-Q4602	AB		R
〃	7-Q4603	AB		R
〃	7-Q4604	AB		R
〃	7-Q4605	AB		R
〃	7-Q4606	AB		R
〃	7-Q4607	AB		R
〃	7-Q4703	AB		R
VS2SD2185R+-1Y	5-Q729	AF	N	R
VS2SK536///-1Y	3-Q1901	AE		R
〃	3-Q1903	AE		R
VS3LN01S///-1Y	3-Q2702	AC		R
〃	3-Q2709	AC		R
〃	3-Q2710	AC		R
〃	3-Q3003	AC		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	3-Q3004	AC		R
VSCPH6318++-1Y	3-Q1706	AE		R
〃	3-Q1707	AE		R
VSDTC144EE/-1Y	3-Q1905	AA		R
〃	3-Q1907	AA		R
〃	3-Q1909	AA		R
〃	3-Q2707	AA		R
〃	3-Q2708	AA		R
〃	7-Q4701	AA		R
〃	7-Q4702	AA		R
VSDTC314TK/-1Y	4-Q303	AC		R
〃	4-Q304	AC		R
〃	4-Q1101	AC		R
〃	4-Q1102	AC		R
〃	4-Q1105	AC		R
〃	4-Q1106	AC		R
〃	4-Q1203	AC		R
〃	4-Q1204	AC		R
VSRN4904///-1Y	6-Q205	AB		S
〃	6-Q209	AB		S
〃	6-Q211	AB		S
VSSSM6J51TU-1Y	3-iC1709	AF		R
〃	6-iC207	AF		S
〃	7-iC4702	AF	N	R
【 X 】				
XBBS930P06000	10-50	AA		R
XBPS730P06WS0	10-51	AA		R
XBPS830P06000	10-52	AA		R
XBPSN20P14JS0	7-N	AB	N	R
XBSSN30P06000	5-N	AA		R
XEBS740P10000	10-4-1-5			R
XEBS930P08000	10-53	AA		R
〃	10-3-5	AA		R
〃	10-1-11	AA		R
XEBS940P16000	10-54	AB		R
XEBSN40P10000	10-55	AB		R
XJPS730P04WS0	10-56	AB		R
XJPS730P08WS0	7-N	AA		R
〃	10-57	AA		R
XNESN20-16000	7-N		N	R

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