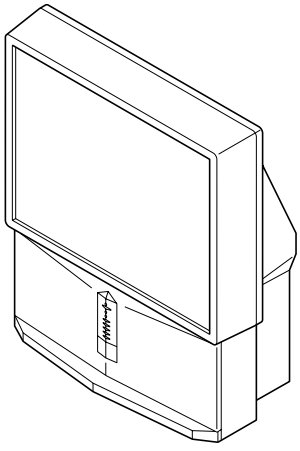
Self Diagnosis Supported model

SERVICE MANUAL RE-3 CHASSIS

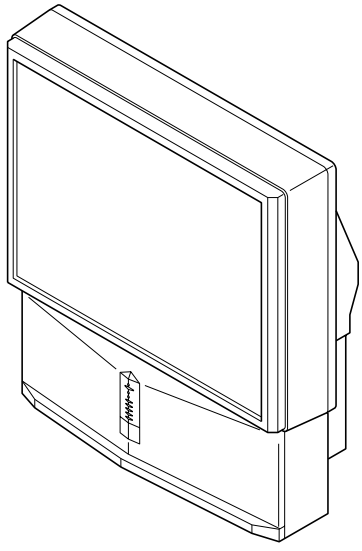
MODEL	COMMANDER	DEST.	CHASSIS NO.
KP-48PS2	RM-903	AEP	SCC-P38G-A
KP-61PS2	RM-903	AEP	SCC-P38H-A



RM-903



KP-48PS2



KP-61PS2

PROJECTION TV

SONY®

SPECIFICATIONS

TV system
B/G/H, D/K, I, L

Colour system
PAL, SECAM
NTSC 3.58, 4.43 (only Video In)

Channel coverage

VHF:	E2-E12
UHF:	E21-E69
CATV:	S1-S20
HYPER:	S21-S41
D/K:	R1-R12, R21-R69
I:	UHF B21-B69
L:	F2-F10, B-Q, F21-F69

Projected picture size
KP-61PS2:
61 inches (approx. 154 cm measured diagonally)
KP-48PS2:
48 inches (approx. 121 cm measured diagonally)

Rear Terminals

- ◁ ←C– Centre speaker input terminals (2 terminals)
- ◯- (L,R) audio outputs (phono jacks)
- ⊂⊃1/→▭ 21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output
- ⊂⊃2/→ⓢ 2 (SMARTLINK) 21-pin Euro connector (CENELEC standard) including audio/video input, S video input, selectable audio/video output
- ⊂⊃3/→ⓢ 3 21-pin Euro connector (CENELEC standard) including audio/video input, S video input, audio/video output (monitor out)

Front Terminals
AV4 inputs:
- →ⓢ S video input - 4 pin DIN
- →▭ video input - phono jack
- →◯ audio inputs - phono jacks

🎧 Headphones jack - minijack stereo

Sound output
2 x 30 W (music power)
2 x 15 W (RMS)

Centre SP input
30 W (RMS) (using as the centre speaker)

Power consumption
225 W

Standby Power consumption
< 0.7 W

Dimensions (w x h x d)
KP-61PS2:
Approx. 1372 x 1528 x 658 mm
KP-48PS2:
Approx. 1091 x 1335 x 580 mm

Weight
KP-61PS2: Approx. 92 kg
KP-48PS2: Approx. 68 kg

Accessories supplied
1 Remote Control (RM-903)
2 Batteries (IEC designated)

Other features
100 Hz picture
Digital Comb filter (High resolution)
TELETEXT, Fastext, TOPtext
NexTView
NICAM
Sleep Timer
Smartlink
Digital Noise detection
Graphic Equaliser
Personal ID

Design and specifications are subject to change without notice.

CAUTION
SHORT CIRCUIT THE ANODE OF HTE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SECTION 1
SELF DIAGNOSIS FUNCTION

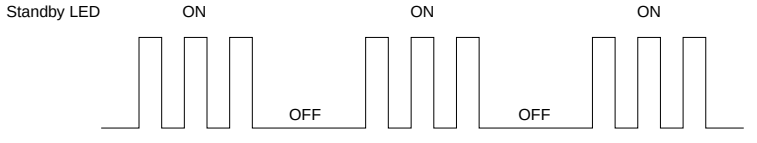
1-1. RE-3 SELF DIAGNOSTIC SOFTWARE

The identification of errors within the RE-3 chassis is triggered in one of two ways : - 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method.

Diagnostic Item Description	No. of times Standby LED Flashes	Probable cause Location	Detected Symptoms
Power does not turn on	Does not light	Power cord is not plugged in Fuse is Burned out	Power does not come on No power is supplied to the TV AC power supply is faulty
+B Over current (OCP)	2 times	H. OUT (Q5104) is shorted (D Board) Linearity FET (Q5105) is shorted (D Board) IC6004 Power IC is shorted (G Board)	Power does not come on Load on power line has shorted
Vertical Deflection stopped	4 times	+15 V is not supplied R5340 open (D Board) –15 V is not supplied R5341 open (D Board) IC5302 is shorted (D Board)	Vertical deflection pulse has stopped Power line has shorted

ERROR	LED ERROR COUNT
No error	00
Not allowed (may be confused with Sircs response flash)	01
Over Current Protection	02
Over Voltage Protection	03
Vertical Protection	04
Not used	05
H-Protection	06
Speaker Protection	07
General IIC Line 0 error	08
MEGATEXT (IC9502)	09
NVM (IC9108)	10
Main colour decoder (IC8301)	11
Backend (IC4301)	14
Multi sound processor (IC4702)	15
External RAM (IC9107)	17

Flash Timing Example : e.g. error number 3



1-2. ERROR DETECTION MONITOR

Device acknowledge is used to check IIC errors. Device acknowledge is checked by sending an IIC start sequence during CRT power on. Each device is checked three times, if there is no acknowledge after every attempt, it will be regarded as an error.
There are three step to check errors.

1. IIC line 0
   If all devices except the NVM have errors, IIC line 0 error is displayed.
2. Board check
   If all devices mounted on one board have errors, board error is displayed.
3. Each device check
   if IIC line error and board error are not detected then the device with an error is displayed.

The detected errors can be displayed as follows:

1. Error Monitor Menu
2. Error Reader

1-2-1. Error Monitor Menu

The error monitor menu is displayed by selecting TT33. The following menu will be displayed:

Error Monitor

1 Ignore Errors OFF ON ON

Operating Time : 000021 h 40 min

Stored Errors :

1. A-Board
2. B3-B CXA2100 MID
3. J-B CXA2123 Main Col Dec
4. Error Code Not Valid
5. Error Code Not Valid

Current Error :

Start Error Sequence

1-2-2. Error Reader Display

The error reader display is connected to the service connector to read actual error codes. The part number for the error reader display is S-188-900-10.

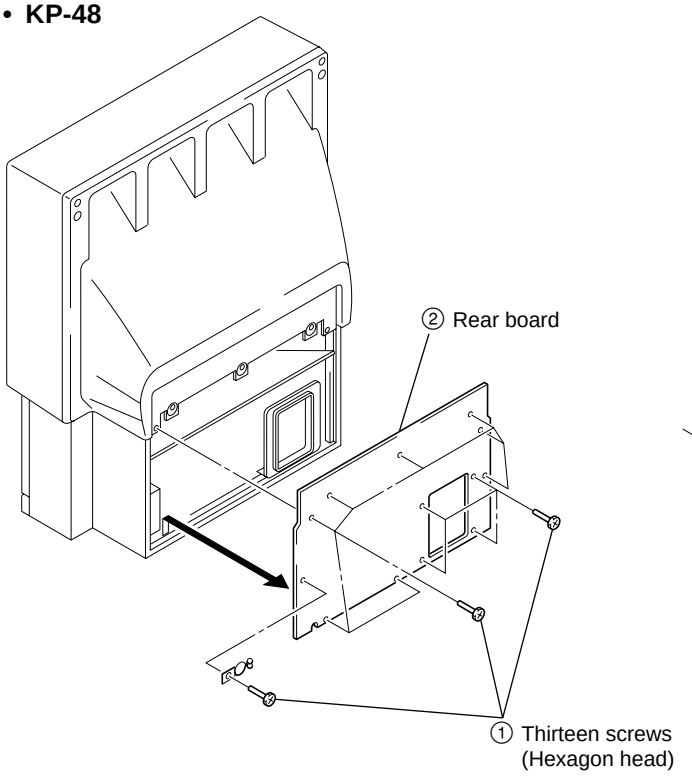
Once an error has been detected it will then be displayed on the two digit error reader. The errors displayed refer to the following table:

	Send Data to Error Reader			
Error Code	Data High	Data Low	Error Type	Function
00 00h	–	f0h	no device	
Gen. IIC Error				
00 01h	f0h	01h	IIC 0 line	
00 02h	f0h	02h	IIC 1 line	not used
Board Error				
01 00h	f1h	00h	A Board	
04 00h	f4h	00h	B3 Board	
06 00h	f6h	00h	E Board	
07 00h	f7h	00h	J/S Board	
08 00h	f8h	00h	M Board	
Device Error				
A Board				
01 01h	f1h	01h	CXA1875	Port Expander
01 02h	f1h	02h	TU1301	Main Tuner
01 03h	f1h	03h	TU1302	Sub Tuner
B3 Board				
04 01h	f4h	01h	CXD9509	MID
E Board				
06 01h	f6h	01h	CXA2100	Backend
J Board				
04 04h	f4h	04h	TDA9178	Picture Booster
07 03h	f7h	03h	CXA2123	Sub Colour
07 04h	f7h	04h	CXA2123	Main Colour
07 0Ah	f7h	0Ah	CXA2149	AV SW
S Board				
07 05h	f7h	05h	CXA1875	Sub Sound
07 08h	f7h	08h	MSP3410D	Sound Proc
M Board				
08 01h	f8h	01h	ST24C32	NVM

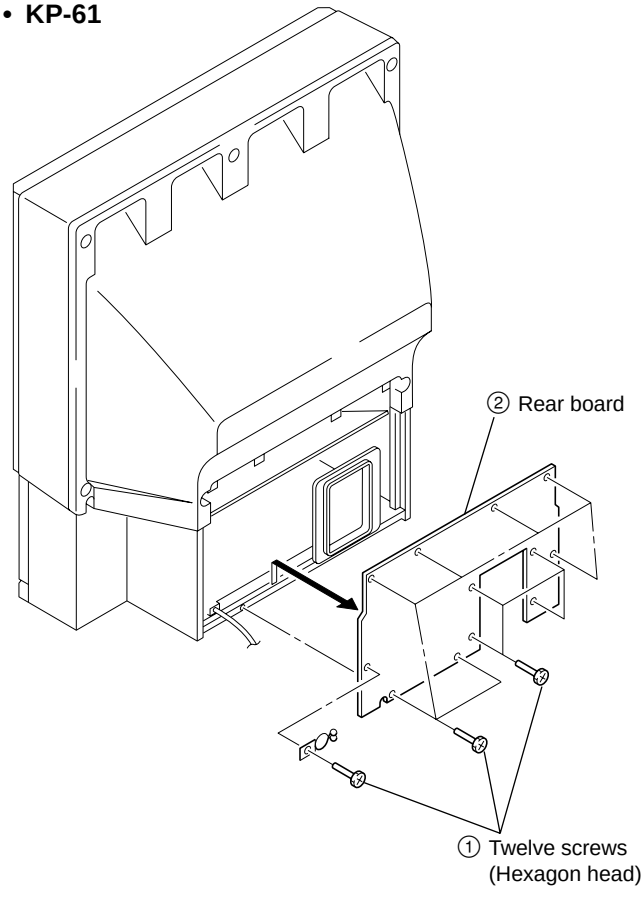
SECTION 2
DISASSEMBLY

2-1. REAR BOARD REMOVAL

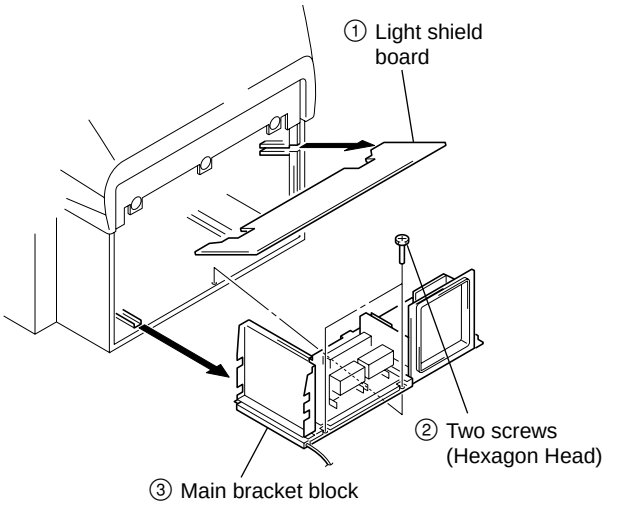
• **KP-48**



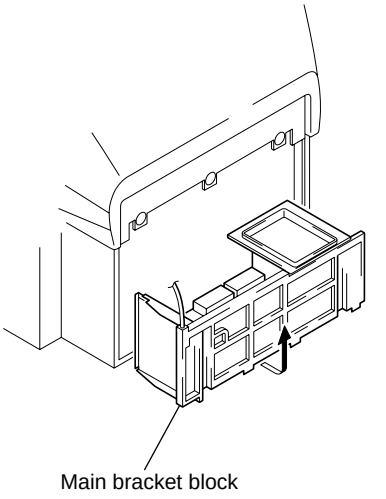
• **KP-61**



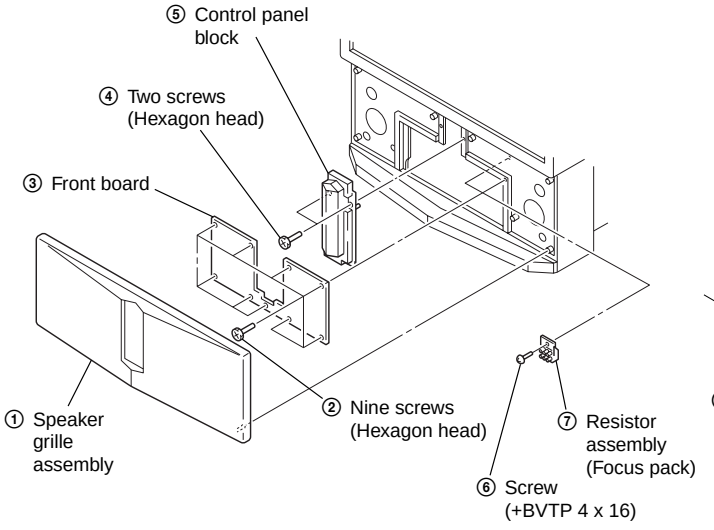
2-2. MAIN BRACKET BLOCK REMOVAL



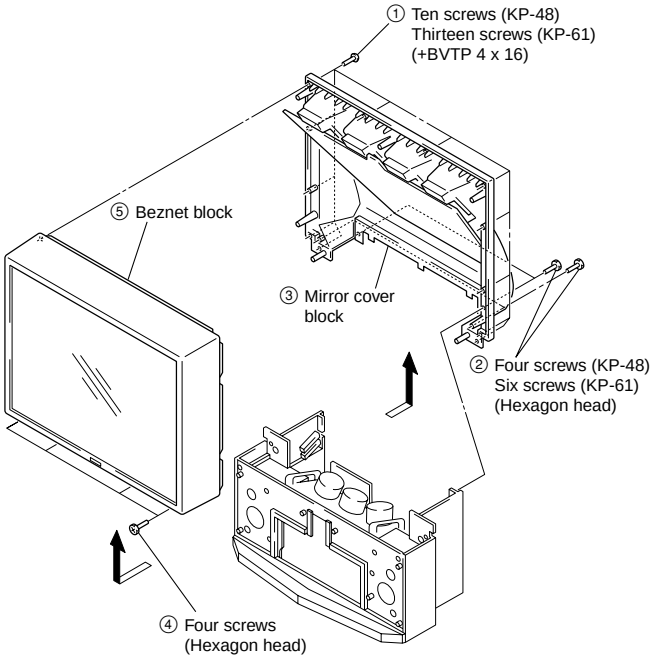
2-3. SERVICE POSITION



2-4. CONTROL PANEL BLOCK AND RESISTOR ASSEMBLY (FOCUS PACK) REMOVAL

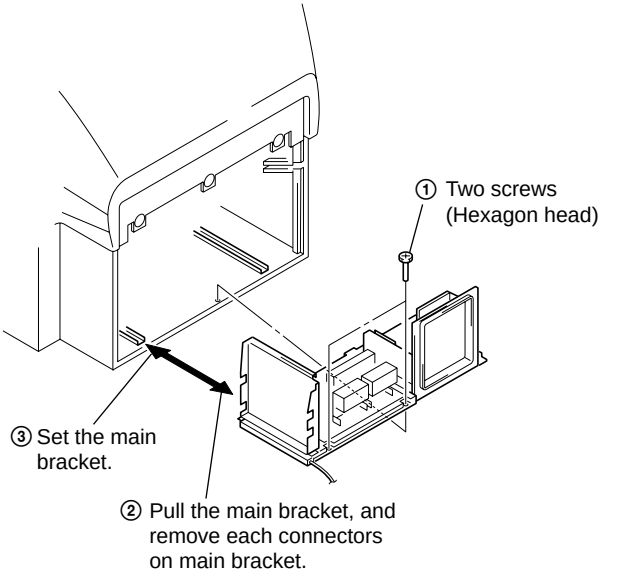


2-5. BEZNET BLOCK REMOVAL



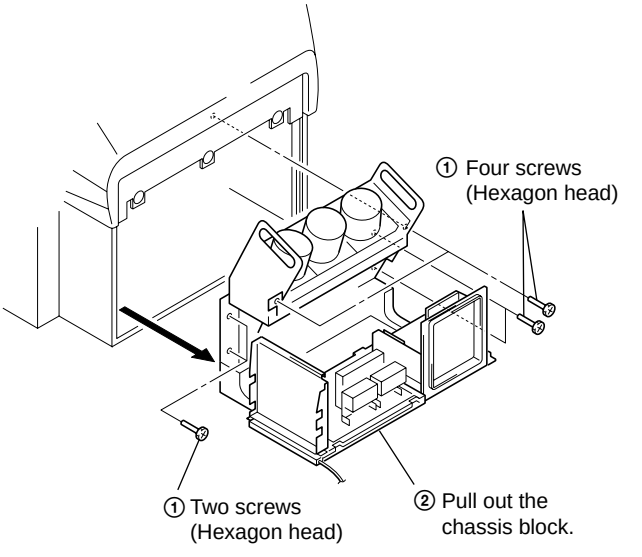
2-6. CHASSIS BLOCK REMOVAL

(1) MAIN BRACKET REMOVAL



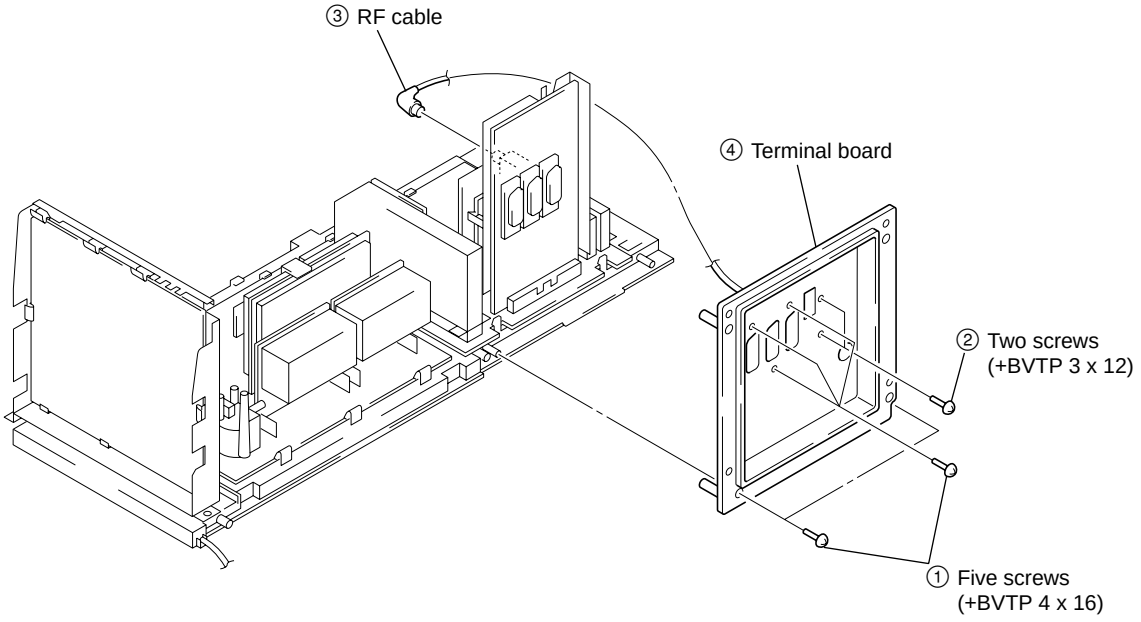
※ Pay particular attention to the wires of each Printed circuit boards when puling out the main bracket.

(2) CHASSIS BLOCK REMOVAL

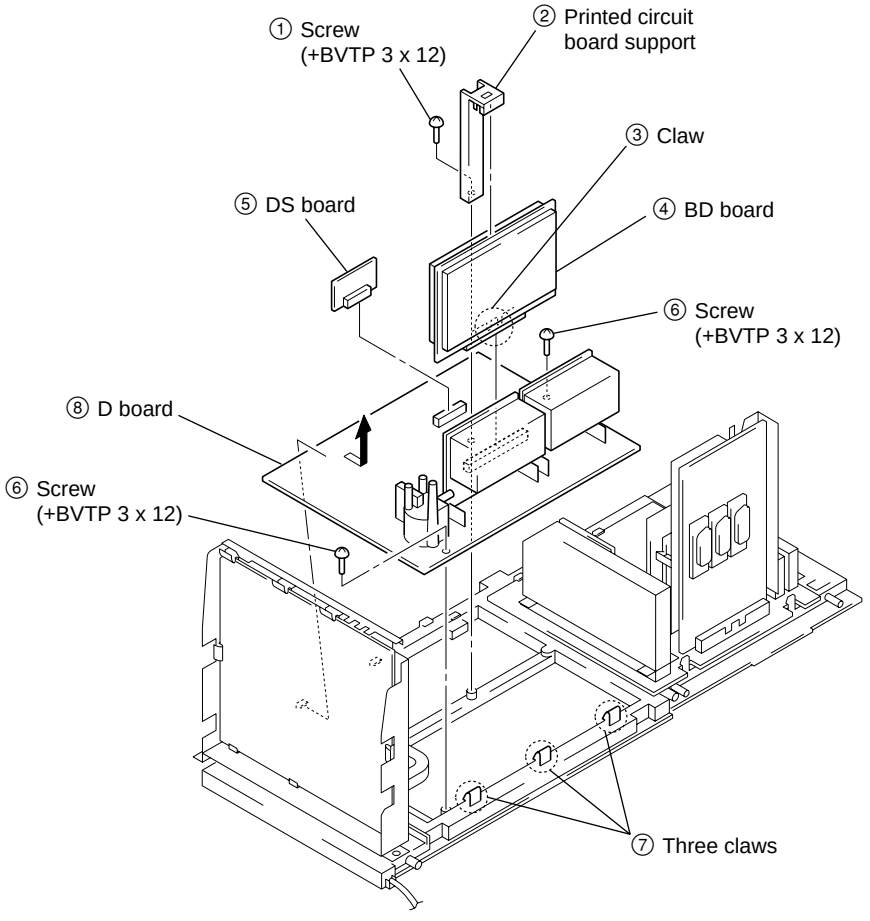


※ Pull out the chassis block by gripping the handles as shown in the diagram.
At this time, pay particular attention to the components removed in (1).

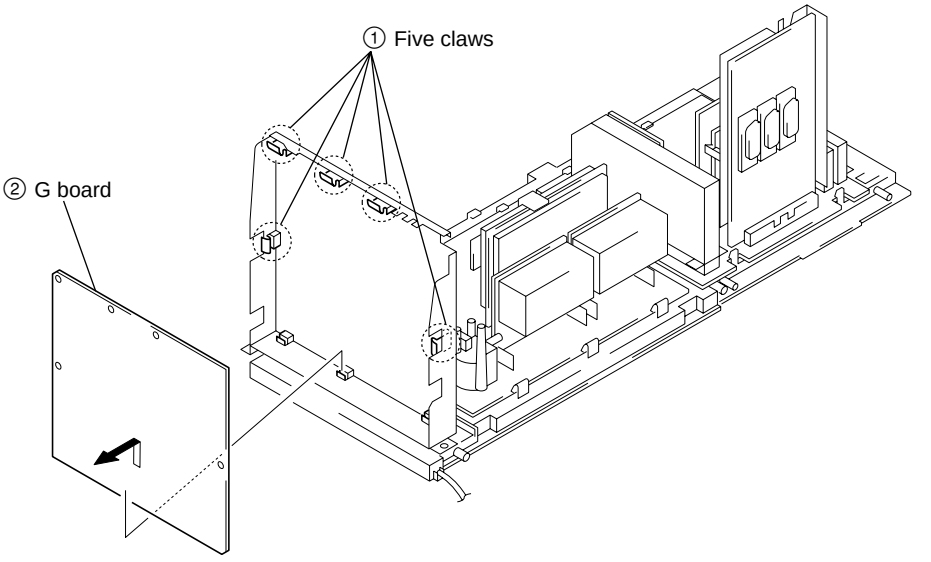
2-7. TERMINAL BOARD REMOVAL



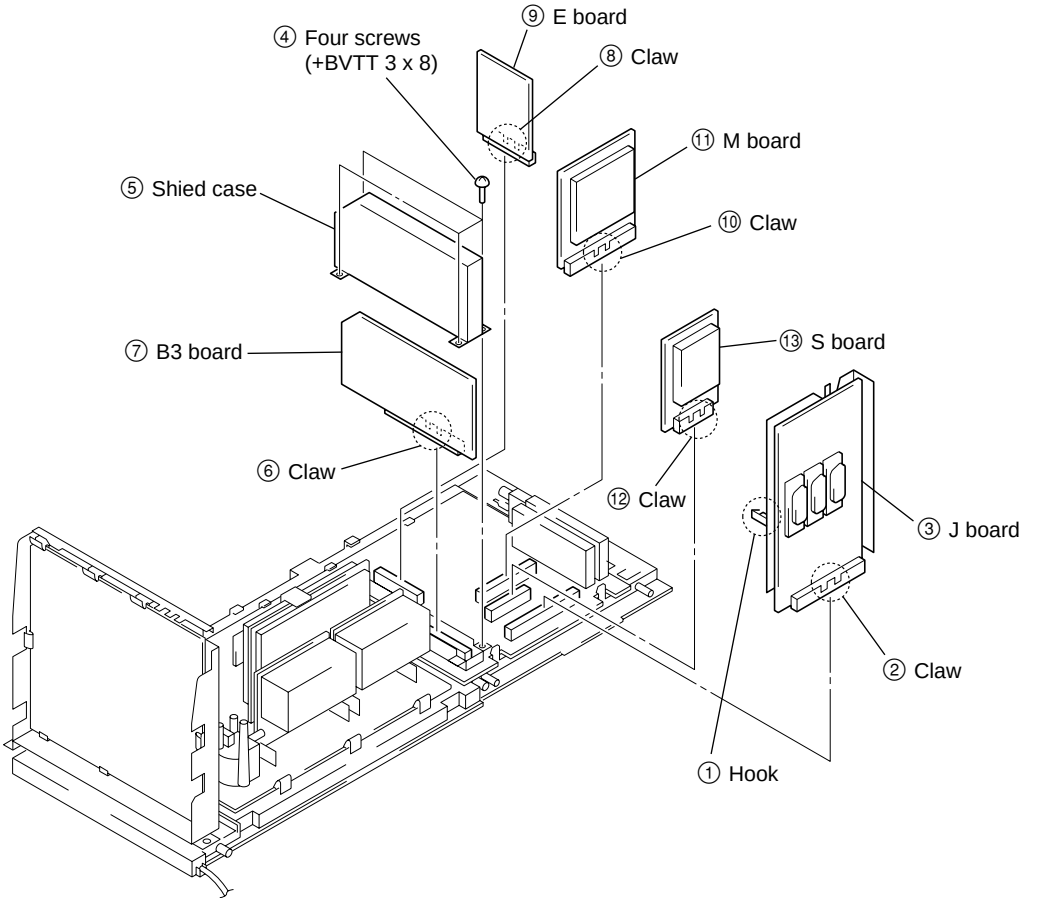
2-8. BD, DS, D BOARDS REMOVAL



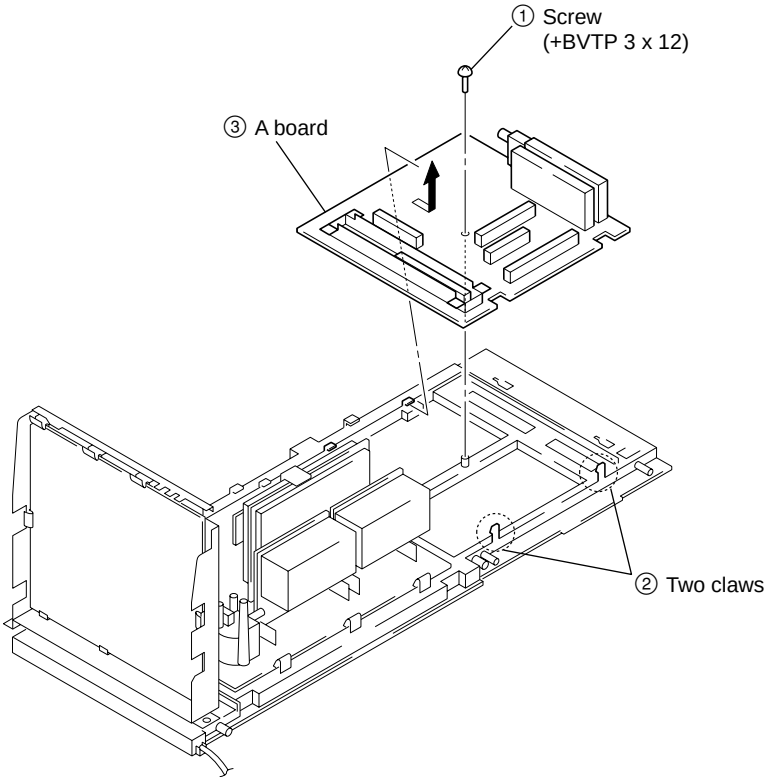
2-9. G BOARD REMOVAL



2-10. J, B3, E, M, S BOARDS REMOVAL

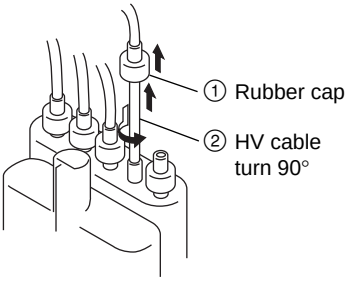


2-11. A BOARD REMOVAL

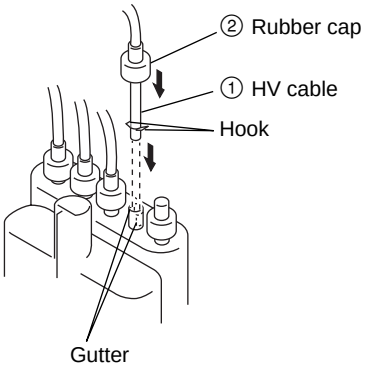


2-12. HIGH-VOLTAGE CABLE REMOVAL AND INSTALLATION

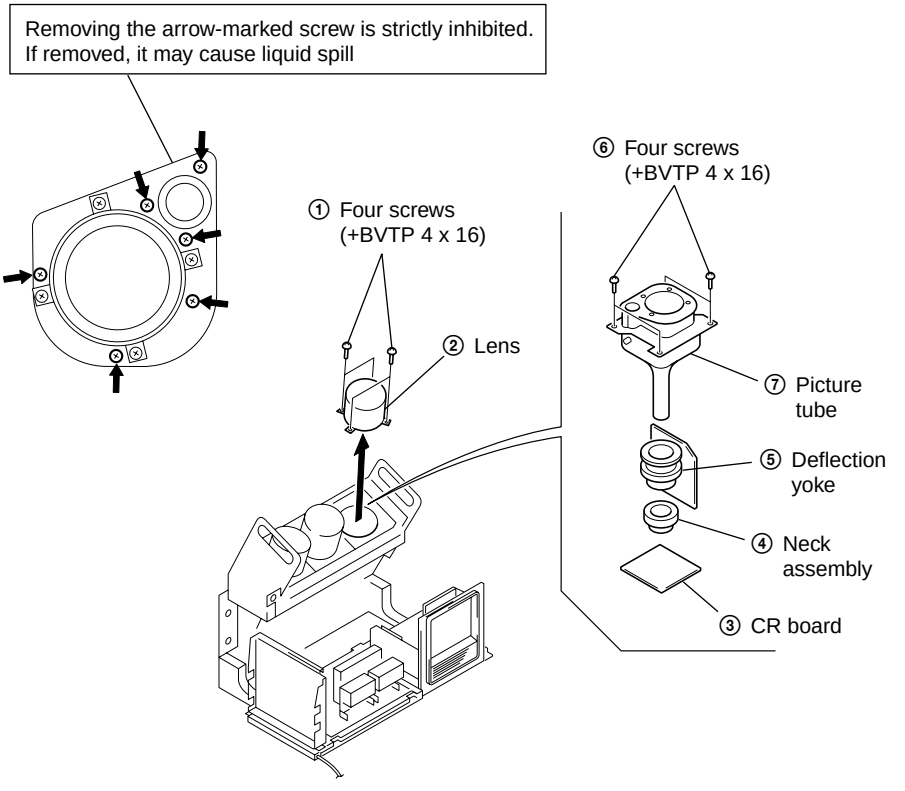
(1) Removal



(2) Installation



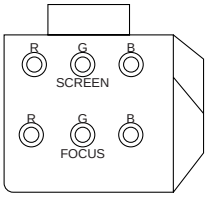
2-13. PICTURE TUBE REMOVAL



SECTION 3
SET-UP ADJUSTMENTS

3-1. SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)

1. Receive the Monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the focus pack all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.



Focus Pack

Fig. 3-1

3-2. SCREEN (G2) ADJUSTMENT

1. Turn on the power of the set.
2. Select VIDEO1 mode without signals.
3. Supply DC 175 ±0.5 V from external power supply to TP7103 (KR), TP7203 (KG) or TP7303 (KB) of CR board, CG board and CB board.
4. Adjust red, green and blue screen voltage to until retrace line disappears with screen VR on the focus pack.

3-3. FOCUS ROUGH ADJUSTMENT

1. Loose the lens screw.
2. Set in the service mode. (Refer to SECTION 5.)
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Press "MENU" twice on the commander and select "Device Register Setting" ➔ "Projector Engine", press "⑥" three times on the Commander to display the test signal (cross-hatch) on the screen.

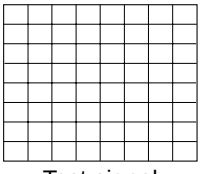

Test signal

Fig. 3-2

5. Rotate the green lens and align to obtain the best lens focus at the center area.
6. Rotate the green focus VR on the focus pack and align to obtain the best electrical focus in the top right corner.
7. Perform the same alignment for red and blue lenses and electric focus.
8. Fix lens screw.

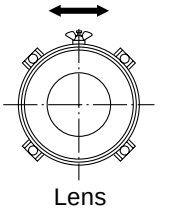

Lens

Fig. 3-3

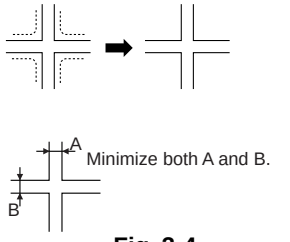
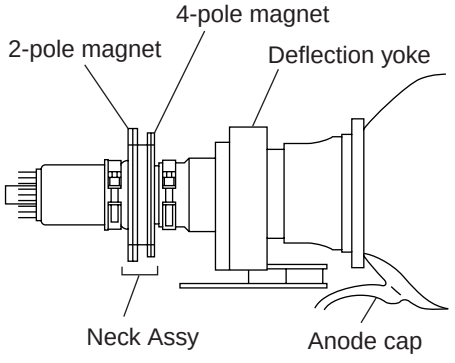


Fig. 3-4

3-4. DEFLECTION YOKE TILT ADJUSTMENT

1. Receive the Monoscope signal.
2. Place the caps on the red and blue lens so that only the green color.
3. Loosen the deflection yoke setscrew and align the tilt of the Deflection yoke so that the bars at the center of the monoscope pattern are horizontal.
4. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
5. The tilt of the deflection yoke for red and blue is aligned the same as was done for green.



Make sure deflection yoke is touching CRT closely.

Fig. 3-5

3-5. 2-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Turn the green focus VR on the focus pack to the right and set to over focus to enlarge the spot.
4. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the just focus spot.
   (center of the dot doesn't move)
5. Align the green focus VR and set for just (precise) focus.
6. Perform the same alignment for red and blue.

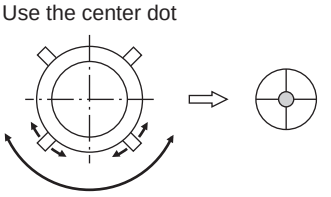


Fig. 3-6

3-6. 4-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Turn the green focus VR on the focus pack to the left and set to under focus to enlarge the spot.
4. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle.
5. Perform the same alignment for red and blue.

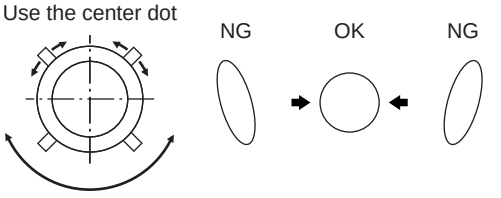


Fig. 3-7

3-7. GREEN, RED AND BLUE FOCUS ADJUSTMENT

3-7-1. Green, Red and Blue Lens Focus Adjustment

1. Receive the Monoscope signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Rotate the green lens and adjust to obtain the best lens focus at the center area.
4. Fix lens screw.
5. Repeat above process for red and blue.

3-7-2. Green, Red and Blue Electrical Focus Adjustment

1. Receive the Monoscope signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Rotate the green focus VR on the focus pack and adjust to obtain the best electrical focus at the center area.
4. Repeat above process for red and blue.

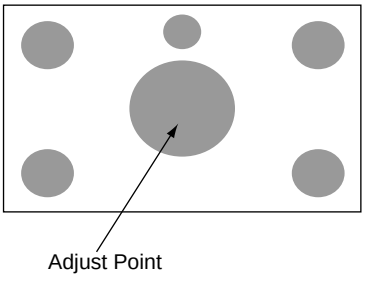


Fig. 3-8

SECTION 4
SAFETY RELATED ADJUSTMENT

When replacing the following components marked with ◪ on the schematic diagram, always check hold-down voltage and if necessary re-adjust.

Part Replaced (⋈)
R9901

Part Replaced (◪)	
D Board	C5123, C5127, C5130, C5143, D5115, D5204, Q5104, R5136, R5138, R5140, R9901, T5102, T5104, T5103 (FBT)

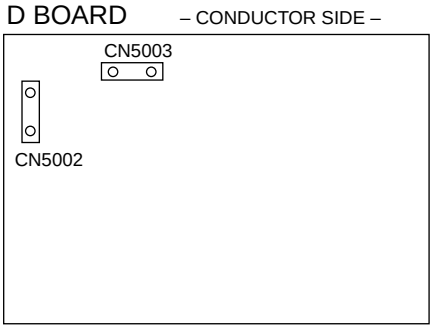


Fig. 4-3

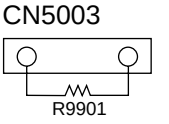


Fig. 4-4

4-1. HV HOLD-DOWN ADJUSTMENT

1. Connect HV static voltmeter to HV Block.
2. Mount a resistor (R9901 : 43 kΩ, 1/4 W, METAL FILM) at CN5003.
3. Remove CN5002 and connect External Power Supply to CN5002 ① pin (+135 V) and ② pin (GND).
4. Turn on the set.

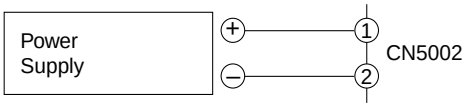


Fig. 4-1

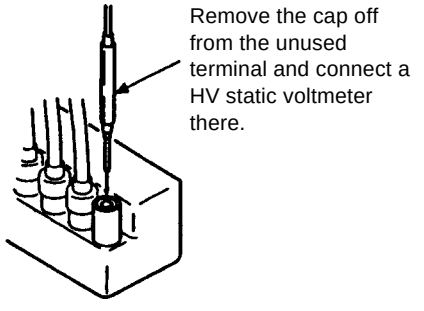


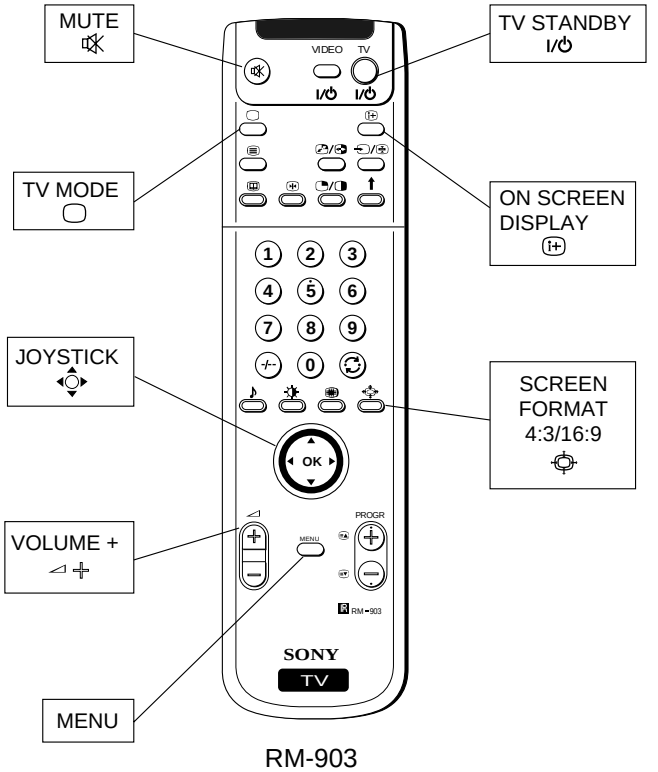
Fig. 4-2

5. Receive the Dot signal and set PICTURE/BRIGHTNESS to minimum.
6. Slowly up the supply voltage from 0 V to 135 V until hold-down circuit works (picture disappear).
7. Read the HV static voltmeter of peak HV voltage.
   Spec : 33.7 ~ 35.3 kV
8. If Hold-down voltage is less than 33.7 kV then replace R9901 of 43 kΩ with that of 39 kΩ, and check if the voltage is within the spec.
9. If hold-down voltage is over than 35.3 kV then replace R9901 of 43 kΩ with that of 47 kΩ, and check if the voltage is within the spec.

SECTION 5
ELECTRICAL ADJUSTMENTS

5-1. ADJUSTMENTS WITH COMMANDER

Service adjustment to this model can performed with the supplied remote commander RM-903.



RM-903

5-1-1. How to Select Each Mode

The adjustment requires the following five modes:

- DRC100 (PAL) mode
- DRC50 (PAL) mode
- DRC100 (PAL/16 : 9) mode: V-compress mode
- DRC100 (NTSC) mode
- DRC50 (NTSC) mode

1. Selection of Mode Between PAL and NTSC

PAL mode : Enter PAL signal.
NTSC mode: Enter NTSC signal. (VIDEO input only)

2. Selection of Digital Mode

1) Press "MENU" button on the commander, and the menu screen will appear.
2) Press ► key on the joystick to enter the "Picture Adjustment" menu.
3) Press ▲ or ▼ key on the joystick to select "Digital Mode", and press ► key.
4) Press ▲ or ▼ key on the joystick to select "DRC50" or "DRC100", and press "◈ (OK)".
5) Press "MENU" button to return to normal screen.
(In the TT mode, the menu is switched to the Service menu)

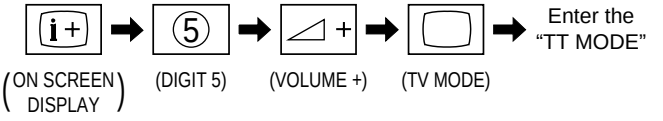
3. Selection of Screen Format

The 16 : 9 mode is selected only when the DRC100 (PAL) mode is active.

1) Press "◈ (BLUE)" button on the commander.
2) Press ▲ or ▼ key on the joystick to select "4 : 3" or "16 : 9", and press "◈ (OK)" button. At this time, normal screen comes back. (In the TT mode, the menu is switched to the Service menu.)

5-1-2. How to Enter TT Mode

1. Turn on the main power switch to place this set in standby mode. (LED will light in red.)
2. Press the buttons on commander as follows, and the TT mode will be selected.



"TT - -" will appear in the top right corner of the screen. Other status information will also be displayed.

3. If "⬭ (TV MODE)" button or "⓪" + "⓪" button is pressed, the set exits from the TT mode and returns to normal TV mode.

5-1-3. How to Enter Service Menu

1. Select TT mode.
2. Press "MENU" button on the commander once, and normal menu screen will appear, or press it once more, and the following service menu screen will appear.

```
Service AE5(A)

Initialising
Reset Devices
Monitoring
Device Register Setting
Special Adjustment

Select :▲▼  Next menu :►
```

3. Following the screen, press ▲ or ▼ key on the joystick to select the desired item, and press ► key to enter the selected item.
4. Press ▲ or ▼ key on the joystick to change data of each item, and press "◈ (OK)" button to write changed data.
(Except Projector Engine mode)
5. To return from each item, press ◄ key on the joystick. Or, to return to the TT mode, press the "MENU" button.
(Except Projector Engine mode)

5-1-4. Screen Display for Service Menu

If each item of service menu is selected, the following screen is displayed.

- **Initialising**

```
Initialising

Model Setting
Destination Setting
Basic Setting
Feature Setting

Select : ▲▼  Next menu : ▶
```

- **Initialising ➔ Model Setting**

```
Model Setting

 1  KV-29FX60
 2  KV-29FC60
 3  KV-29FS60
 4  KV-28FX60
 5  KV-32FX60
 6  KV-32FS60
 7  KV-28FC60
 8  KV-32FC60
 9  KV-28FC60Z
10  KV-32FC60Z
11  KV-28FS70
12  KV-32FS70
13  KV-36FS70
14  KP-48PS1
15  KP-53PS1
16  KP-61PS1
17  KP-44PS2
18  KP-51PS2
19  KF-50SX100

Select : ▲▼  Last menu : ◀  Set Model : ▶
```

- **Initialising ➔ Destination Setting**

```
Destination Setting

Multi
A
B
D
E
K
R
U

Select : ▲▼  Last menu : ◀  Set Dest. : ▶
```

- **Initialising ➔ Basic Setting**

```
Basic Setting

No  Descr.              Min     Max    Data

 1  Sys. B/G            OFF      ON      ON
 2  Sys. D/K            OFF      ON      ON
 3  Sys. L              OFF      ON      ON
 4  Sys. I (UK)         OFF      ON      ON
 5  Sys. I (IRL)        OFF      ON      ON
 6  TXT Nat. Option       1       4       3
 7  Simple PAT          OFF      ON     OFF
 8  16 : 9 CRT          OFF      ON     OFF
 9  Sub-Woofer          OFF      ON     OFF
10  Auto Stand-By       OFF      ON      ON
11  Comb-Filter         OFF      ON      ON
12  Auto YC det         OFF      ON      ON
13  Auto Comb det       OFF      ON      ON
14  AV2 Available       OFF      ON      ON
15  AV3 Available       OFF      ON      ON
16  AV4 Available       OFF      ON      ON
17  AV3 Front & Rear    OFF      ON     OFF
18  SECAM Tape          OFF      ON      ON
19  AV1 Sound Mute      OFF      ON     OFF

Select : ▲▼ Last menu : ◀  Enter Item : ▶
```

- **Initialising ➔ Feature Setting**

```
Feature Setting

No  Descr.              Min     Max    Data

 1  PAP                 OFF      ON      ON
 2  PAT                 OFF      ON      ON
 3  INDEX               OFF      ON      ON
 4  EPG                 OFF      ON      ON
 5  Full EPG            OFF      ON      ON
 6  Pict Boost Bypass   OFF      ON     OFF

Select : ▲▼ Last menu : ◀  Enter Item : ▶
```

- **Reset Devices**

```
Reset Devices

Backend
Deflection
Ext. Deflection
Dynamic Convergence
Colour Decoder 1
Colour Decoder 2
Audio/Video Switch
MID-X
External PLL MID-X
Sound
Picture Booster

Select : ▲▼ Last menu : ◀  Reset Dev. : ▶
```

• Monitoring

```
Monitoring

Device Status Monitor
Error Monitor
Production Monitor
NVM Monitor
Format Monitor
CNI Monitor

Select : ▲▼  Next menu : ►
```

• Device Register Setting

```
Device Register Setting

Backend
Deflection
Ext. Deflection
Dynamic Convergence
Colour Decoder 1
Colour Decoder 2
Audio/Video Switch
MID-X
External PLL MID-X
Sound
Projector Engine
Picture Booster

Select : ▲▼  Next menu : ►
```

• Device Register Setting ➡ Backend

Backend

No	Descr.	Def.	Min	Max	Data
1	D-Col	OFF	OFF	ON	OFF
2	Contrast	44	0	63	43
3	Limit-Lvl	3	0	3	3
4	Hue	32	0	63	32
5	Colour	31	0	63	31
6	CTI-Level	2	0	3	2
7	Brightness	31	0	63	3
8	Gamma	3	0	3	3
9	Sharpness	44	0	63	44
10	R-Drive	41	0	63	41
11	G-Drive	41	0	63	41
12	B-Drive	41	0	63	41
13	Sub Bright	31	0	63	31
14	VM-Level	2	0	3	2
15	R-Cutoff	31	0	63	31
16	Pre/Over	2	0	3	3
17	G-Cutoff	31	0	63	31
18	DPIC-Level	1	0	3	1
19	B-Cutoff	31	0	63	31
20	DC-Tran.	0	0	3	0
21	Sub-Cont.	7	0	15	8
22	LRGB2-Lvl	8	0	15	8
23	P-Abl	15	0	15	15
24	Sharp. F0	ON	OFF	ON	ON
25	CB-Offset1	7	0	15	7
26	CR-Offset1	7	0	15	7
27	CB-Offset2	7	0	15	7
28	CR-Offset2	7	0	15	7
29	Sub Colour	0	–8	8	0

Select : ▲▼ Last menu : ◄ Enter Item : ►

• Device Register Setting ➡ Deflection

Note: Prior to starting Main Deflection Adjustment, the value displayed here (shaded portion) must be set to the Deflection data.

Deflection

No	Descr.	Def.	Min	Max	Data
1	V-Size	31	0	63	50
2	V-Position	31	0	63	32
3	V-Comp	1	0	3	0
4	V-Linear	7	0	15	7
5	S-Corr	7	0	15	7
6	H-Size	31	0	63	38
7	Ew-Dc	OFF	OFF	ON	OFF
8	Pin-Amp	31	0	63	20
9	Up-CPin	31	0	63	32
10	M-Pin	2	0	3	2
11	Lo-CPin	31	0	63	32
12	Trapezium	7	0	15	7
13	H-Position	31	0	63	30
14	AFC-Bow	7	0	15	7
15	AFC-Angle	7	0	15	7
16	Up-Vlin	0	0	15	0
17	Lo-Vlin	0	0	15	0
18	MPIP PAmp	–3	–10	10	0
19	MPIP UCPin	0	–10	10	0
20	MPIP LCPin	0	–10	10	0
21	MPIP Trap	0	–10	10	0
22	EPG PAmp	2	–10	10	0
23	EPG UCPin	2	–10	10	0
24	EPG LCPin	2	–10	10	0
25	EPG Trap	0	–10	10	0

Select : ▲▼ Last menu : ◄ Enter Item : ►

• Device Register Setting ➡ EXT. Deflection

EXT. Deflection

No	Descr.	Def.	Min	Max	Data
1	Linearity	127	0	255	127
2	H Centre	31	0	63	31
3	H Trap	31	0	63	31
4	Rotation	0	0	255	0
5	FocusPhase	127	0	255	127

Select : ▲▼ Last menu : ◄ Enter Item : ►

• **Device Register Setting ➔ Dynamic Convergence**

Dynamic Convergence

No	Descr.	Def.	Min	Max	Data
1	Range	63	0	63	63
2	H stat	33	0	63	33
3	H amp l	37	0	63	37
4	H amp r	36	0	63	36
5	Up Y	31	0	63	31
6	Low Y	33	0	63	33
7	Y up l	30	0	63	30
8	Y up r	30	0	63	30
9	Y low l	31	0	63	31
10	Y low r	30	0	63	30
11	Mbow up l	31	0	63	31
12	Mbow up r	32	0	63	32
13	Mbow low l	32	0	63	32
14	Mbow low r	32	0	63	32
15	V stat	32	0	63	32
16	TCorPCtrl	OFF	OFF	ON	OFF
17	TopCorPin	31	0	63	31
18	BCorPCtrl	OFF	OFF	ON	OFF
19	BotCorPin	43	0	63	43

Select : ▲▼ Last menu : ◄ Enter Item : ►

• **Device Register Setting ➔ Colour Decoder 1**

Colour Decoder 1

No	Descr.	Def.	Min	Max	Data
1	TINT	31	0	63	31
2	SUB COLOUR	7	0	15	7
3	SUB CONTR	7	0	15	7
4	SHARP GAIN	8	0	15	8
5	Y-OUT LEV.	35	0	63	35
6	C-OUT LEV.	45	0	63	45
7	Y-DL	8	0	10	8
8	Cr OFF. 1	7	0	15	7
9	Cb OFF. 1	7	0	15	7
10	Cr OFF. 2	7	0	15	7
11	Cb OFF. 2	7	0	15	7
12	V CD FREQ	3	0	7	3
13	V CD MODE	0	0	3	0
14	MVM	OFF	OFF	ON	OFF
15	S R-Y ADJ	7	0	15	7
16	S B-Y ADJ	2	0	15	5
17	BELL/HPF	2	0	3	2
18	BELL F0	OFF	OFF	ON	OFF
19	S GP	0	0	3	0

Select : ▲▼ Last menu : ◄ Enter Item : ►

• **Device Register Setting ➔ Colour Decoder 2**

Colour Decoder 2

No	Descr.	Def.	Min	Max	Data
1	TINT	31	0	63	31
2	SUB COLOUR	7	0	15	7
3	SUB CONTR	7	0	15	7
4	SHARP GAIN	8	0	15	8
5	Y-OUT LEV.	35	0	63	35
6	C-OUT LEV.	45	0	63	45
7	Y-DL	8	0	10	8
8	Cr OFF. 1	7	0	15	7
9	Cb OFF. 1	7	0	15	7
10	Cr OFF. 2	7	0	15	7
11	Cb OFF. 2	7	0	15	7
12	V CD FREQ	3	0	7	3
13	V CD MODE	0	0	3	0
14	MVM	OFF	OFF	ON	OFF
15	S R-Y ADJ	7	0	15	7
16	S B-Y ADJ	2	0	15	5
17	BELL/HPF	2	0	3	2
18	BELL F0	OFF	OFF	ON	OFF
19	S GP	0	0	3	0

Select : ▲▼ Last menu : ◄ Enter Item : ►

• **Device Register Setting ➔ MID-X**

MID-X

No	Descr.	Def.	Min	Max	Data
1	M H POS	0	–31	31	0
2	S H POS	0	–8	8	0
3	D YS SEL	1	0	3	1
4	D YS DELAY	7	0	7	7
5	Text Sharp	OFF	OFF	ON	OFF

Select : ▲▼ Last menu : ◄ Enter Item : ►

• Device Register Setting ➧ External PLL MID-X

External PLL MID-X

No	Descr.	Def.	Min	Max	Data
1	VCO7-0PAL	184	0	255	184
2	VCO7-0NTSC	172	0	255	172
3	VCO11-8	6	0	15	6
4	DIV1, 2, 4, 8	2	0	3	2
5	Fine Delay	0	0	63	0
6	Coar. Delay	0	0	3	0
7	Ch. Pump	0	0	3	0
8	PD Pol.	ON	OFF	ON	ON
9	DSync Wdth	3	0	3	3
10	Dsync Del	OFF	OFF	ON	OFF
11	Sync Pol	ON	OFF	ON	ON
12	DSync Pol	ON	OFF	ON	ON
13	Clk En	ON	OFF	ON	ON
14	NClk En	OFF	OFF	ON	OFF
15	Clk/2 En	OFF	OFF	ON	OFF
16	NClk/2 En	OFF	OFF	ON	OFF
17	DSync En	ON	OFF	ON	ON
18	Unlock En	OFF	OFF	ON	OFF
19	VCO Bypass	ON	OFF	ON	ON
20	Synth Pwr	ON	OFF	ON	ON
21	Rdout Pwr	OFF	OFF	ON	OFF
22	DIVOUT En	ON	OFF	ON	ON
23	DSync Byp	OFF	OFF	ON	OFF
24	DSync Hold	OFF	OFF	ON	OFF

Select : ▲▼ Last menu : ◄ Enter Item : ►

• Device Register Setting ➧ Sound

Sound

No	Descr.	Def.	Min	Max	Data
1	Carr.-Mute	ON	OFF	ON	ON
2	SCART1 Vol	79	0	127	79
3	SCART2 Vol	79	0	127	79
4	SCART-Pr.	27	0	127	27
5	I2S1-Pr.	16	0	127	16
6	I2S2-Pr.	16	0	127	16
7	FM Pr.	27	0	127	27
8	BG Nic. Pr.	53	0	127	53
9	L Nic. Pr.	59	0	127	59
10	DK Nic.Pr.	53	0	127	53
11	I Nic. Pr.	97	0	127	97
12	Irl NicPr.	97	0	127	97
13	SubW. Vol.	0	–127	0	0
14	Bass Offs	0	–3	3	0
15	TrebleOffs	2	–3	3	2
16	Loudn. Offs	0	0	9	0
17	HP-VolOffs	–2	–5	5	–2
18	M-S Limit	30	–128	127	30
19	M-B Limit	–30	–128	127	–30
20	S-M Limit	12	–128	127	12
21	S-B Limit	–20	–128	127	–20
22	B-M Limit	–12	–128	127	–12
23	B-S Limit	20	–128	127	20
24	Err. Max	40	0	255	40
25	Err. Min	18	0	255	18
26	Vol.Offset	–3	–6	0	–3

Select : ▲▼ Last menu : ◄ Enter Item : ►

• Device Register Setting ➧ Picture Booster

Picture Booster

No	Descr.	Def.	Min	Max	Data
1	DEM	OFF	OFF	ON	OFF

Select : ▲▼ Last menu : ◄ Enter Item : ►

• Special Adjustment

Special Adjustment

No	Descr.	Min	Max	Data
1	RGB Level	0	7	0
2	RGB Gain	0	31	6
3	RGB PAT Level	0	7	0
4	RGB PAT Gain	0	31	12
5	RGB H-Position	-10	10	0
6	Extra FW	0	255	255
7	EPG ChkS Check	OFF	ON	ON
8	Slicer High	OFF	ON	ON
9	FCW Wide	OFF	ON	OFF
10	High Pll	OFF	ON	OFF
11	Panic Offset	0	2	2
12	Wide Mute	OFF	ON	ON

Select : ▲▼ Last menu : ◄Enter Item : ►

5-1-5. Service List (Projector Engine)

: Fixed data

Note : Prior to starting Main Deflection Adjustment, the data (GRN, BLU, RED) must be set to the standard values of DRC100 (PAL) mode.

Item Number	Adjustment Item	Data Range	Standard Data					Name/Description
			DRC100 (PAL)	DRC50 (PAL)	DRC100 (NTSC)	DRC50 (NTSC)	DRC100 (PAL/16 : 9)	
00	FDIS	00,01	00					SELECT REGI DATA DISPLAY OF FINE ADJ
01	OSDH	01 ~ 255	32	32	32	32	32	PJED SERVICE MENU H POSITION
02	OSDV	01 ~ 255	25					PJED SERVICE MENU V POSITION
03	FVST	00 ~ 255	33	54	33	54	33	LINE NUMBER OF FINE ADJUST START
04	V1ST	00 ~ 255	00	00	00	00	00	V1 START DATA
05	V1CU	00 ~ 255	50	25	58	29	50	V1 COUNT UP DATA
06	COHP	00 ~ 255	253	253	253	253	253	H-PHASE OF ROUGH ADJ
07	FIHP	00 ~ 255	203	203	203	203	203	H-PHASE OF FINE ADJ
08	TPHP	00 ~ 255	51	51	51	51	51	H-PHASE OF TEST PATTERN
09	DFHP	00 ~ 255	00	00	00	00	00	H-PHASE OF DYNAMIC FOCUS
10	DFHG	–128 ~ 127	–80	–80	–80	–80	–80	H-2 GAIN OF DYNAMIC FOCUS
11	DFVG	–128 ~ 127	–30	–30	–30	–30	–30	V-2 GAIN OF DYNAMIC FOCUS
12	PWM1	00 ~ 255	00					PWM1
13	PWM2	00 ~ 255	32					H-PHASE OF AUTO REGI TEST PATTERN
14	HBLD	00 ~ 255	238					H-PHASE OF RETURNED BLUE V LINE
15	HBLW	00 ~ 63	23					PULSE WIDTH OF RETURNED BLUE V LINE
16	BLKP	00 ~ 255	27					START BLANK PULSE
17	COGV	–128 ~ 127	(*1)					GREEN V CENT OFFSET DATA OF AUTO REGI
18	CORV	–128 ~ 127	(*1)					RED V CENT OFFSET DATA OF AUTO REGI
19	COBV	–128 ~ 127	(*1)					BLUE V CENT OFFSET DATA OF AUTO REGI
20	COGH	–128 ~ 127	(*1)					GREEN H CENT OFFSET DATA OF AUTO REGI
21	CORH	–128 ~ 127	(*1)					RED H CENT OFFSET DATA OF AUTO REGI
22	COBH	–128 ~ 127	(*1)					BULE H CENT OFFSET DATA OF AUTO REGI
23	SOGV	–128 ~ 127	(*1)					GREEN V SKEW OFFSET DATA OF AUTO REGI
24	SORV	–128 ~ 127	(*1)					RED V SKEW OFFSET DATA OF AUTO REGI
25	SOBV	–128 ~ 127	(*1)					BLUE V SKEW OFFSET DATA OF AUTO REGI
26	SOGH	–128 ~ 127	(*1)					GREEN H SKEW OFFSET DATA OF AUTO REGI
27	SORH	–128 ~ 127	(*1)					RED H SKEW OFFSET DATA OF AUTO REGI
28	SOBH	–128 ~ 127	(*1)					BLUE H SKEW OFFSET DATA OF AUTO REGI
29	ERR	FIXED	00					AUTO REGI ERROR CODE
30	ADTM	00 ~ 255	144					TIMING TO GET A/D DATA OF AUTO REGI
31 *2	VUP	01 ~ 255	03	03	03	03	01	AUTO REGI PATTERN UPPER V POSITION
32 *2	VMID	01 ~ 255	130	138	103	112	130	AUTO REGI PATTERN MIDDLE V POSITION
33 *2	VLOW	01 ~ 255	255	270	206	224	255	AUTO REGI PATTERN LOWER V POSITION
34 *2	HPR	01 ~ 510	01	01	01	01	01	AUTO REGI PATTERN H POSITION
35	SFTF	00,01	00					SHIFT ENABLE 00 : DISABLE 01 : ENABLE
36	SFTE	00,01	00					SHIFT FAST 00 : NORMAL 01 : QUICK
37	ACTL	00 ~ 255	00					LOWER BYTE OF COUNTER VALUE
38	ACTH	00 ~ 255	00					HIGHER BYTE OF COUNTER VALUE
GRN	CENT *3	–512 ~ 511	000/000					GREEN H/V CENT (H CENT *4)
	SKEW *3	–512 ~ 511	000/000					GREEN H/V SKEW (H SKEW *4)
	SIZE *3	–512 ~ 511	–70/–175				–70/–150	GREEN H/V SIZE (H/V SIZE *4)
	LIN *3	–512 ~ 511	xxxx/xxxx					GREEN H/V LIN
	KEY *3	–512 ~ 511	xxxx/xxxx					GREEN H/V KEY
	PIN *3	–512 ~ 511	xxxx/271					GREEN H/V PIN
BLU	CENT *3	–512 ~ 511	000/000					BLUE H/V CENT
	SKEW *3	–512 ~ 511	080/–130					BLUE H/V SKEW
	SIZE *3	–512 ~ 511	–20/–175				–20/–150	BLUE H/V SIZE
	LIN *3	–512 ~ 511	–150/xxxx					BLUE H/V LIN
	KEY *3	–512 ~ 511	xxxx/–100					BLUE H/V KEY
	PIN *3	–512 ~ 511	xxxx/270				xxxx/202	BLUE H/V PIN
RED	CENT *3	–512 ~ 511	000/000					RED H/V CENT
	SKEW *3	–512 ~ 511	080/–130					RED H/V SKEW
	SIZE *3	–512 ~ 511	–61/–175				–61/–150	RED H/V SIZE
	LIN *3	–512 ~ 511	150/xxxx					RED H/V LIN
	KEY *3	–512 ~ 511	xxxx/100					RED H/V KEY
	PIN *3	–512 ~ 511	xxxx/270				xxxx/202	RED H/V PIN

*1: Set correctly by the automatic registration adjustment.
*3: Prior to starting Main Deflection Adjustment, the data must be set to the standard values of DRC100 (PAL) mode.
*2 : It can be adjust if automatic registration adjustment doesn't work.
*4 : It can be adjust Green a little.
xxxx: Cannot change.

5-2. REGISTRATION ADJUSTMENT

5-2-1. Data Setting Before Adjustment

Note: Prior to starting Registration Adjustment, the data must be set by the following method. Negligence of data setting increases the system load, causing a trouble.

1. Main Deflection Setting

1) Enter the Service menu, and select "Device Register Setting" ➧ "Deflection".
2) Press ▲ or ▼ key on the joystick to set the data of each deflection item to the value (shaded portion) displayed on page 18, and press the "✥ (OK)" button.

2. Sub Deflection Setting

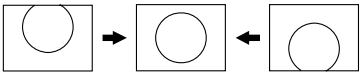
1) Set DRC100 (PAL) mode.
2) Enter the Service menu, and select "Device Register Setting" ➧ "Projector Engine".
3) Press "①" or "④" button on the commander to select the item, and press "③" button to change the adjustment colors, then set the data of GRN, BLU, and RED items to the values of DRC100 (PAL) mode, following " **5-1-5. Service List** " on page 21. (For an operation method, see " **5-2-3. Operation Method for Projector Engine Mode** ")
4) After a setting of each item finished, press "🔇 (MUTE)" + "⓪" buttons on the commander to write the changed data.
5) Press "MENU" button on the commander to return to the Service menu.

5-2-2. Main Deflection Adjustment

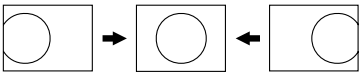
The data values are same in all five modes, and therefore the adjustment for the DRC100 (PAL) mode only is performed here.

1. Place the caps on the red and blue lenses so that only the green color is displayed.
2. Enter the PAL SPCB signal to set the DRC100 (PAL) mode.
3. Enter the Service menu, and select "Device Register Setting" ➧ "Deflection".
4. Adjust "2 V-Position" and "13 H-Position" so that the picture is displayed in the center of screen.

2 V-Position



13 H-Position

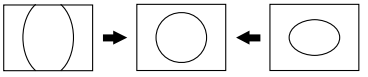


5. Adjust "1 V-Size" and "6 H-Size" so that the picture size is within the specification.

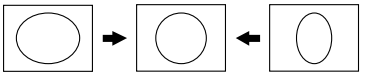
SPEC Overscan Spec. = 7.5%

Input Signal	H SIZE	V SIZE
PAL SPCB	16.6 ± 0.15 sq.	12.5 ± 0.15 sq.

1 V-Size



6 H-Size

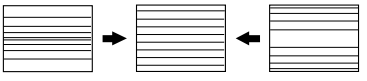


6. Adjust the following items so as to attain the optimum picture.

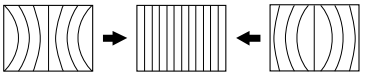
4 V-Linear



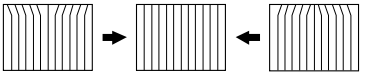
5 S-Corr



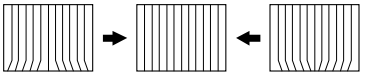
8 Pin Amp



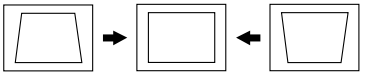
9 Up-CPin



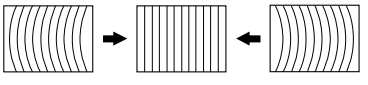
11 Lo-CPin



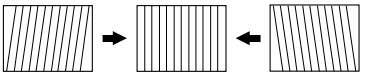
12 Trapezium



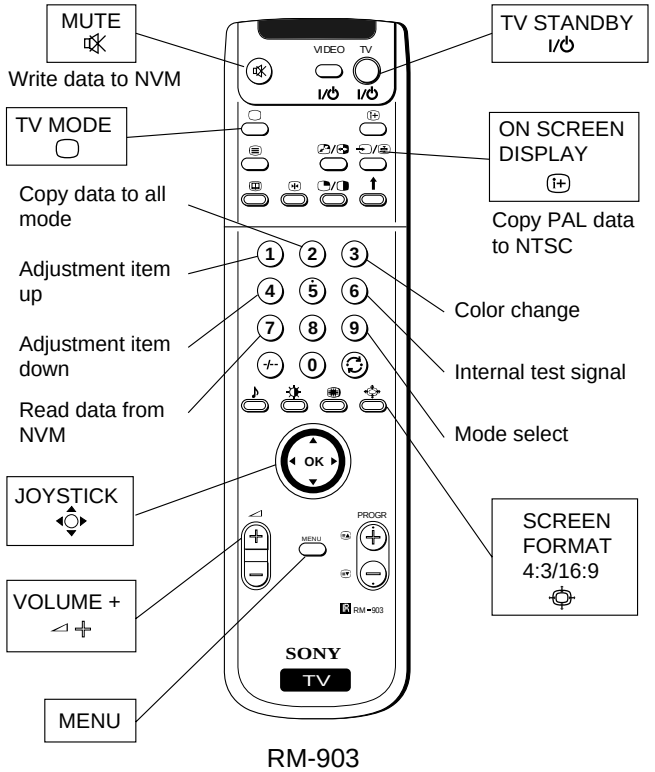
14 AFC-Bow



15 AFC-Angle



5-2-3. Operation Method for Projector Engine Mode



1. Functions of Keys on Commander

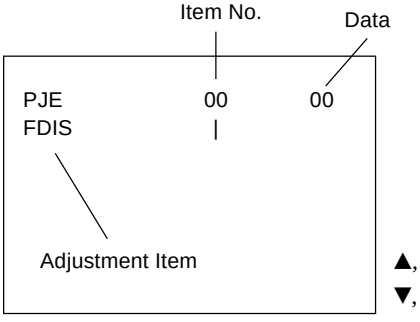
- ① : Changes adjustment item. (item No. moves up)
  : Marker moves clockwise from center to outside. (in fine adjustment mode)
- ④ : Changes adjustment item. (item No. moves down)
  : Marker moves counterclockwise from outside to center. (in fine adjustment mode)
- ▲, ▼, ◀, ▶ : Changes data value. (up or down)
  : Marker moves up, down, or to the left or right. (in fine adjustment mode)
- ③ : Changes adjustment color. (except item No. 00~38) GRN ➔ BLU ➔ RED
- ⑥ : Displays or changes internal test signals.
  : crosshatch + external signal ➔ dot + external signal ➔ crosshatch only ➔ dot only ➔ off
- ⑨ : Switches adjustment mode. rough adjustment mode ➔ fine adjustment mode
- (OK): Switches marker moving method. (in fine adjustment mode) joystick (▲, ▼, ◀, ▶) keys ➔ ① and ④ buttons

Commander Function

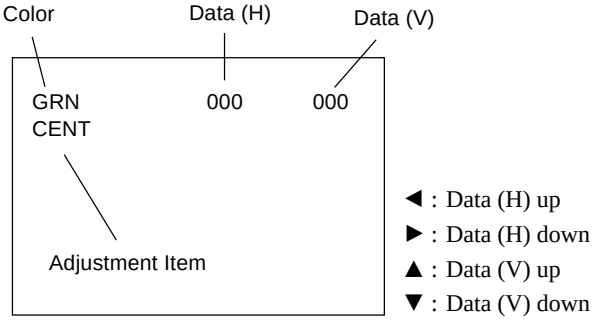
Buttons	Mode	Description
+ ⓪	WRITE	Writes data to NVM.
⑦ + ⓪	READ	Reads data from NVM.
⑤ + ⓪	INIT	Service data initialization. Not stored. (Be sure not to use usually)
② + ⓪	COPY	Copies and writes data of DRC100 (PAL) mode to all other modes.
+ ⓪	WRT5060	Copies data of PAL mode to NTSC mode.

2. Operation Method for Rough Adjustment

1) Enter the Service menu, and select “Device Register Setting” ➔ “Projector Engine”.
2) Press “①” or “④” button on the commander to select the item, and press ▲, ▼, ◀, ▶ key on the joystick to change the data.



3) Select “GRN CENT” and confirm that the data in horizontal direction and vertical direction are both 000. When BLU or RED is displayed, press “③” button on the commander to change the adjustment color in the order of GRN ➔ BLU ➔ RED.
4) In the GRN, BLU, or RED mode, ▲, ▼ keys on the joystick can change the data in vertical direction, or ◀, ▶ keys in horizontal direction.

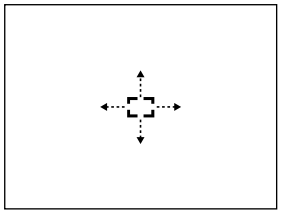


5) Before returning to the Service menu, press “ (MUTE)” +“⓪” buttons on the commander to write the data. (Omission of this operation causes the set data to be returned to the data before adjustment)
6) Press “MENU” button on the commander to return to the Service menu.

3. Operation Method for Fine Adjustment (in GRN, BLU, or RED Mode)

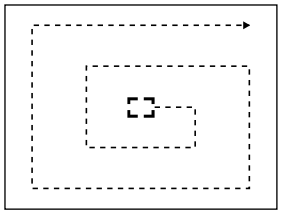
1) Select the Projector Engine mode.
2) Select FDIS so that the data at each position can be displayed in the fine adjustment mode, and set the data to "01".
3) Press "⑨" button on the commander, and the fine adjustment mode will be active where a green marker appears in the center of screen (in the case of GRN mode).
4) Press "(OK)" button, and the marker color will be switched between green (GRN mode) and white alternately.
5) Use "①" or "④" button on the commander, or the joystick to move the marker to the position to be adjusted, where fine adjustment can be made.

• When marker color is white.
(in this case, fine adjustment is disabled)



Operating the joystick can move the marker up, down, or to the left or right freely.

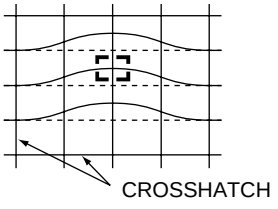
• When marker color is green. (GRN mode)



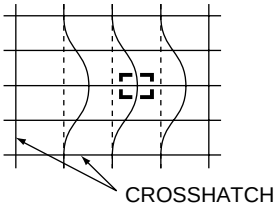
① : moves the marker clockwise from center to outside.
④ : moves the marker counterclockwise from outside to center.

Fine adjustment can be made on the basis of marker position using ▲, ▼, ◀, ▶ keys on the joystick.

Movement when ▲ key on joystick is pressed.



Movement when ▶ key on joystick is pressed.



6) Press "⑨" button on the commander to return to the rough adjustment mode.

5-2-4. Projector Engine Adjustment (Sub Deflection Adjustment)

Note: Prior to starting this adjustment, make sure that the data of GRN, BLU, and RED items in the DRC100 (PAL) mode are same as those data given in "**5-1-5. Service List**" on page 21. If not same, retry the registration adjustment from the beginning.
: Adjustment by the projector engine adjustment only will burden the load on the system, and therefore main deflection adjustment should be made properly.
: When exiting from the Projector Engine mode, press "(MUTE)"+"⓪" buttons on the commander to write the data. Omission of this operation causes the data to be returned to the data before adjustment.

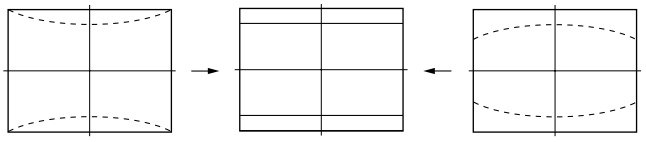
Adjustment X : Fixed ○ : Yes – : No

Adjustment Item	Adjustment Type		
	GRN	RED	BLU
	H / V	H / V	H / V
CENT	X / X	○ / ○	○ / ○
SKEW	X / X	○ / ○	○ / ○
SIZE	X / X	○ / ○	○ / ○
LIN	– / –	○ / –	○ / –
KEY	– / –	– / ○	– / ○
PIN	– / ○	– / ○	– / ○

<Adjustment for DRC100 (PAL) Mode>

1. Green Adjustment

1) Place the caps on the red and blue lenses so that only the green color is displayed.
2) Enter the PAL SPCB signal to set the DRC100 (PAL) mode.
3) Select the Projector Engine mode.
4) Press "⑥" button on the commander to display internal test signal (crosshatch).
5) Select "GRN PIN" and adjust so that upper and lower horizontal lines on the screen become straight.



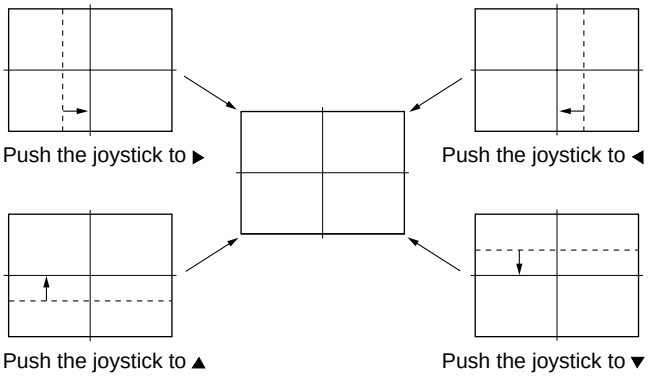
Push the joystick to ▲ Push the joystick to ▼

6) Fix the data of other items.
7) Press "⑨" button on the commander to enter the fine adjustment mode.
8) Make fine adjustment so that horizontal lines and vertical lines become straight.
9) Press "⑨" button on the commander to return to the rough adjustment mode.

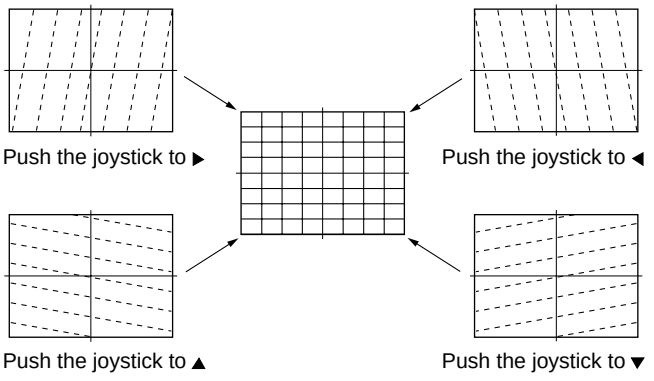
2. Blue Adjustment

1) Place a cap on the red lens so that green and blue colors are displayed.
2) Press "③" button on the commander to select BLU mode.
3) Adjust the following items so that blue lines overlap with green lines.

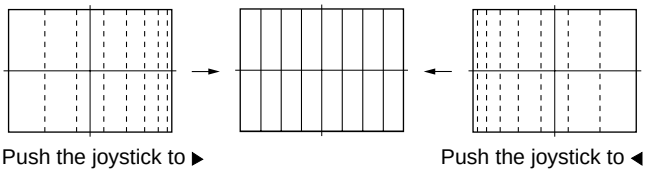
• BLU CENT (horizontally/vertically)
Adjust so that the pictures coincide in the center of screen.



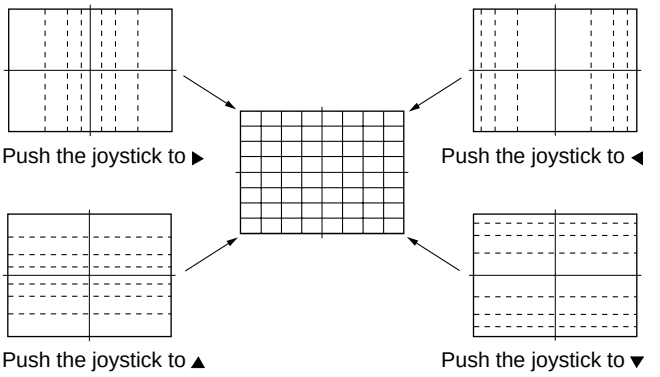
• BLU SKEW (horizontally/vertically)
Correct the tilt of horizontal lines and vertical lines.



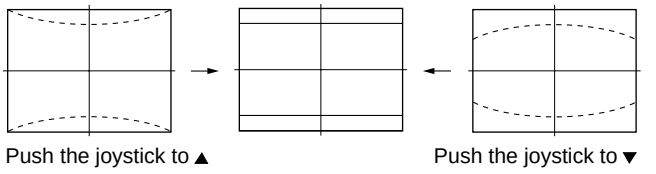
• BLU LIN (horizontally)
Adjust so that each space at the right end and at the left end of screen is equal.



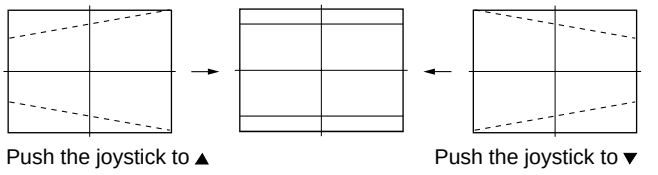
• BLU SIZE (horizontally/vertically)
Adjust so that each distance from center to left end and to right end is equal.
Adjust so that each distance from center to top and to bottom is equal.



• BLU PIN (vertically)
Adjust so that upper and lower horizontal lines on the screen become straight.



• BLU KEY (vertically)
Adjust so that upper and lower horizontal lines on the screen become parallel.



4) Press "⑨" button on the commander to enter the fine adjustment mode.
5) Make fine adjustment so that horizontal lines and vertical lines overlap with green lines.
6) Press "⑨" button on the commander to return to the rough adjustment mode.

3. Red Adjustment

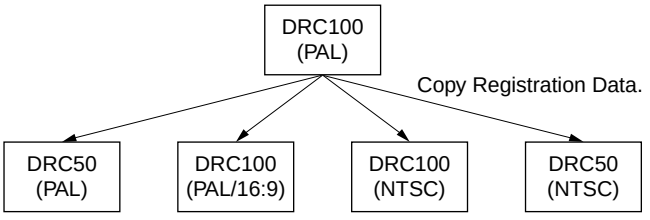
1) Place a cap on the blue lens so that green and red colors are displayed.
2) Press "③" button on the commander to select RED mode.
3) Hereinafter, use same manner as that of blue adjustment to adjust so that the red lines overlap with green lines.

4. Registration Data Writing

1) After each adjustment of green, blue, and red for the DRC100 (PAL) mode finished, press "🔇 (MUTE)"+"⓪" buttons on the commander to write registration data to the NVM.

<Copy of Registration Data>

1. Make sure that the adjustment for DRC100 (PAL) mode finished and the data have already been written.
2. Select the Projector Engine mode.
3. Press "②"+"⓪" button on the commander.
4. The data of DRC100 (PAL) mode are copied to all other modes.



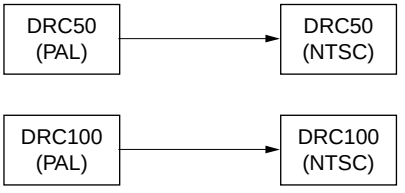
<Adjustment for DRC50 (PAL) Mode>

1. Enter the PAL SPCB signal to set the DRC50 (PAL) mode.
2. Select the Projector Engine mode.
3. Press "⑥" button on the commander to display internal test signal (crosshatch).
4. Press "⑨" button on the commander to enter the fine adjustment mode.
5. Using the lens caps as necessary, perform a fine adjustment so that green, blue, and red vertical lines and horizontal lines become straight, and respective color lines overlap with green lines.
6. Press "⑨" button on the commander to return to the rough adjustment mode.
7. After each adjustment of green, blue, and red for the DRC50 (PAL) mode finished, press "🔇 (MUTE)"+"⓪" buttons on the commander to write registration data to the NVM.

<Copy of Registration Data from PAL to NTSC>

1. Make sure that the adjustment for DRC50 (PAL) mode finished and the data have already been written.
2. Select the Projector Engine mode.
3. Press "ⓘ (ON SCREEN DISPLAY)"+"⓪" buttons on the commander.
4. Respective data of DRC50 (PAL) mode and DRC100 (PAL) mode are copied to the NTSC mode.

Copy Registration Data from PAL to NTSC.



<Adjustment for DRC100 (PAL/16 : 9) Mode>

1. Place the caps on the red and blue lenses so that only the green color is displayed.
2. Enter the PAL SPCB signal to set the DRC100 (PAL) mode.
3. Set the screen format to 16 : 9.
4. Select the Projector Engine mode.
5. Press "⑥" button on the commander to display internal test signal (crosshatch).
6. Select "GRN SIZE", and press ▲ or ▼ key on the joystick to fix the data in vertical direction to "–150".
7. Select "GRN PIN" and adjust so that upper and lower horizontal lines on the screen become straight.
8. Fix the other item data.
9. Press "⑨" button on the commander to enter the fine adjustment mode.
10. Make a fine adjustment so that horizontal lines and vertical lines become straight.
11. Press "⑨" button on the commander to return to the rough adjustment mode.
12. Hereinafter, use same manner as that of adjustment for DRC100 (PAL) mode to perform the blue and red adjustments.
13. After each adjustment of green, blue, and red for the DRC100 (PAL/16 : 9) mode finished, press "🔇(MUTE)"+"⓪" buttons on the commander to write registration data to the NVM.
14. Set the screen format to 4 : 3.

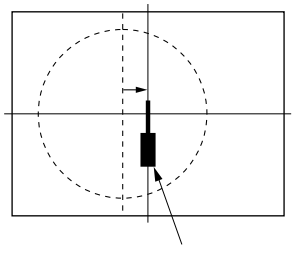
5-3. AUTO CONVERGENCE OFFSET

This adjustment must be performed after the registration adjustment was made or after readjustment was made by any reason.

1. Darken the periphery of this set.
2. Enter the PAL SPCB signal to set the DRC100 (PAL) mode.
3. Select the Projector Engine mode.
4. Press "(AUTO CONVERGENCE)" button on the front panel of the set.
5. Select "29 ERR" of Projector Engine mode and confirm ERR data value is "00" .
6. In the same manner, select DRC50 (PAL) and DRC100 (PAL/16 : 9) modes respectively, and press the "(AUTO CONVERGENCE)" button in the Projector Engine mode.
7. Enter the NTSC signal, and perform the same steps in the DRC100 (NTSC) and DRC50 (NTSC) modes respectively.

5-4. PICTURE CENTER ADJUSTMENT

1. Enter the SPCB signal.
2. Select the TT mode, and press "③"+"②" buttons on the commander.
   TT32 : Horizontal center adjustment for MID-X input
3. Pressing ◄ or ► key on the joystick, move the picture in horizontal direction to center the picture on the OSD mark.
4. Press "(TV MODE)" or "(OK)" button on the commander to return to normal TV mode.



Adjust picture center to
the position of this OSD mark.

5-5. WHITE BALANCE ADJUSTMENT

1. Enter the monoscope signal.
2. Press "MENU" button on the commander to enter the Picture Adjustment menu.
3. Set the Picture Mode to "Personal", and the Digital Mode to "DRC100".
4. Enter the Service menu, and select "Device Register Setting" ➧ "Backend".
5. Adjust "13 Sub Bright" so that 10 IRE section barely grows.
6. Enter all-white pattern signal.
7. Fix "17 G-Cutoff" to "31", and adjust "15 R-Cutoff" and "19 B-Cutoff" so as to attain the optimum white balance.
8. Adjust "13 Sub Bright" so that 100 IRE section barely grows.
9. Adjust "10 R-Drive" and "12 B-Drive" so as to attain the optimum white balance.
10. Repeatedly adjust the white balance for the minimum and maximum picture setting.

5-6. SUB BRIGHT ADJUSTMENT

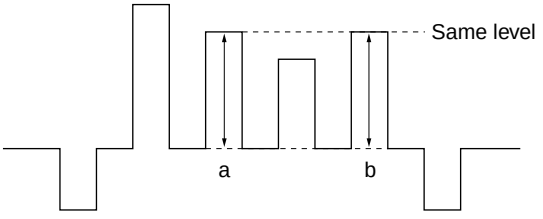
1. Enter the monoscope signal.
2. Press "MENU" button on the commander to enter the Picture Adjustment menu.
3. Set respective items as follows:
   • Picture Mode ➔ Personal
   • AI (Artificial Intelligence) ➔ OFF
   • Contrast ➔ Minimum
   • Brightness ➔ 50%
4. Enter the Service menu, and select "Device Register Setting" ➧ "Backend".
5. Adjust "13 Sub Bright" so that the border between 0 IRE and 10 IRE becomes distinct.

5-7. SUB COLOR ADJUSTMENT

1. Enter the color bar signal.
2. Connect the oscilloscope probe to the CN4500 pin 5 on the E board.
3. Enter the Service menu, and set respective items as follows. However, record current set values so that they can be restored later.

1) Select “Device Register Setting” ➧ “Backend”.
   • 1 D-Col ➔ OFF
   • 2 Contrast ➔ 31
   • 5 Color ➔ 31
   • 18 DPIC-Level ➔ 0
   • 20 DC-Tran. ➔ 0
2) Select “Initializing” ➧ “Feature Setting”.
   • 6 PictBoostBypass ➔ ON

4. Select “Device Register Setting” ➧ “Backend”.
5. Measure waveform, and adjust “29 Sub Color” so that the height of “a” and “b” is same as shown in figure.
6. Return the data set in step 3 to original values.



5-8. SUB COLOR OFFSET (61 inch model only)

1. Confirm the result performed in **5-7. SUB COLOR ADJUSTMENT**.
2. Enter the Service menu, and select “Device Register Setting” ➧ “Backend”.
3. Select “29 Sub Color”, and set existing data value +2. (61 inch model only)

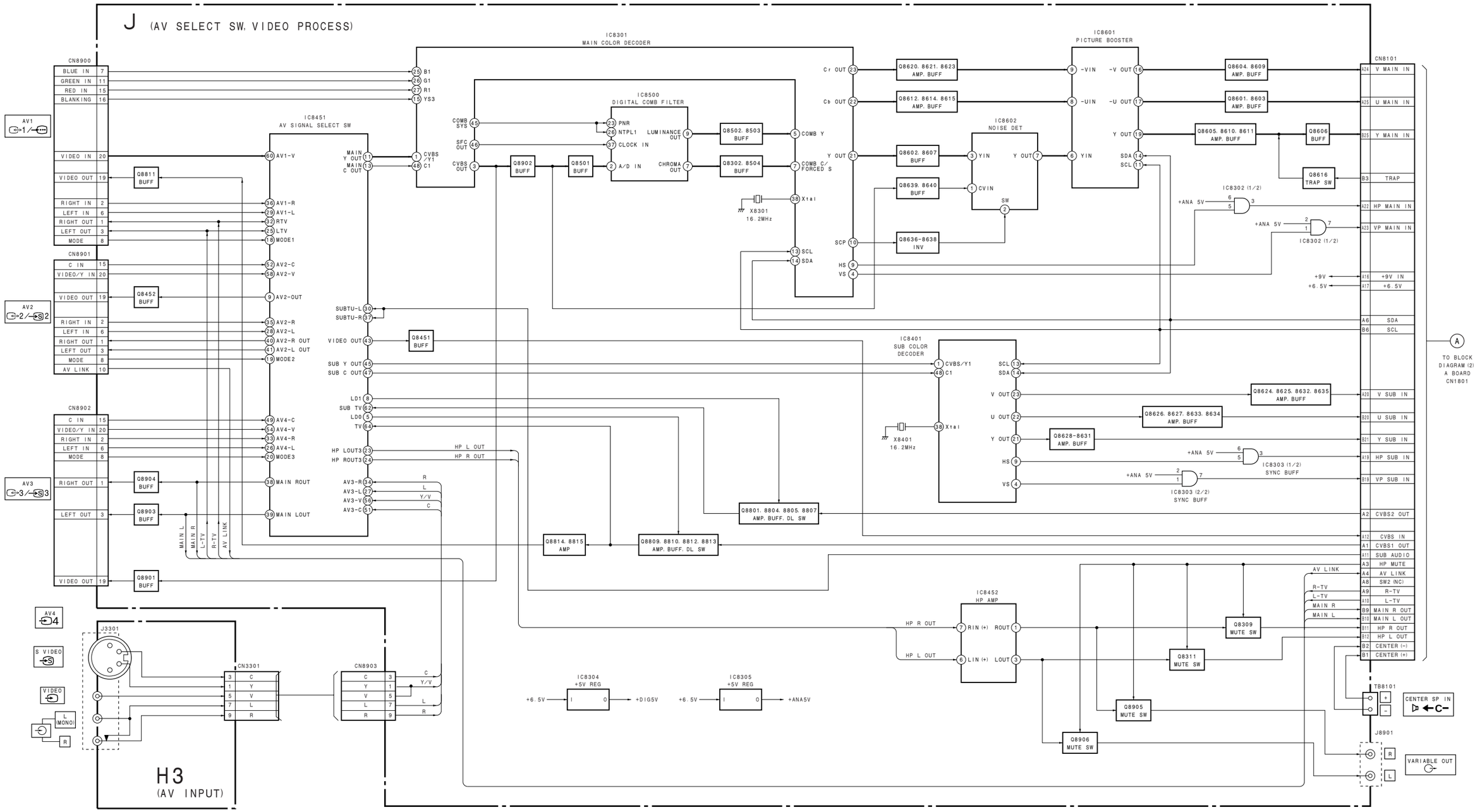
5-9. TEST-TEST MODE

Is available by pressing “OSD”, “5”, “Volume minus”, “TV” button in the standby mode, OSD “TT--” appears. The functions described below are available by pressing the two numbers. To release the Test-Test mode, Press “⓪” twice or switch the TV set into standby mode. Pressing the two Local Control buttons (+ and –) during Power ON will also switch into “TT” mode.
In “TT” mode, it is possible to remove the Menu from the screen by pressing the Speaker OFF button once. Pressing the Speaker OFF button a second time will cause the menu to reappear. The Function is kept even when the menu is not displayed !!.

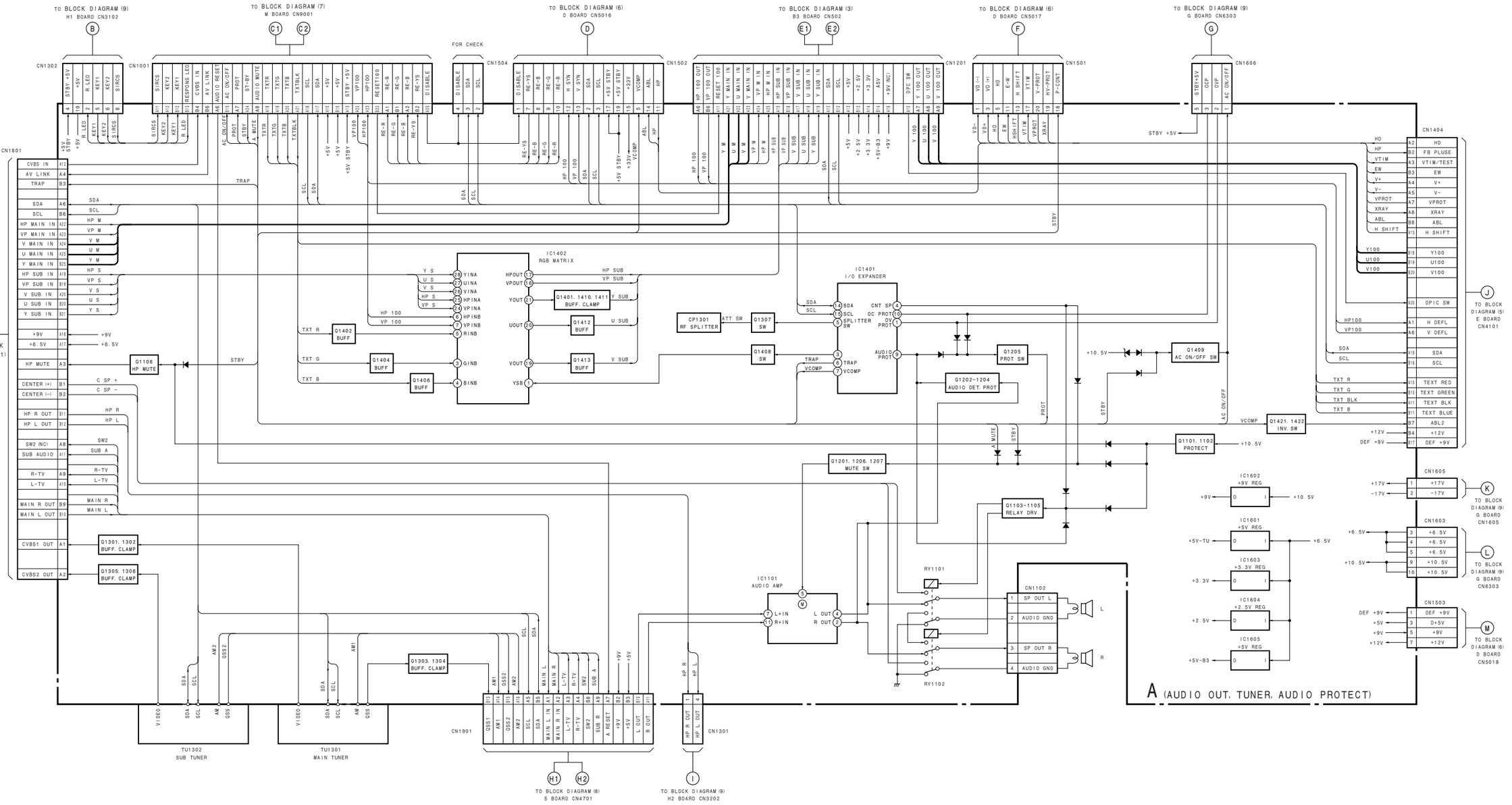
00	Switch back to normal mode - “TT” mode off
01	Set picture maximum
02	Set picture minimum
03	Set speaker/headphone Volume to 30%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing Mode
08	Shipping Condition
09	Enter PJ Engine service mode
10	No function
11	Sub picture adjustment
12	Sub colour adjustment
13	Displayed software version and TV set configuration
14	Production Info Display
15	Picture Rotation
16	Picture level 50%
17	Audio mute on
18	No function
19	Sub brightness adjustment
20	No function
21	Destination A includes text settings, display TV status
22	Destination L includes text settings, display TV status
23	Destination E includes text settings, display TV status
24	Destination U includes text settings, display TV status
25	Destination D includes text settings, display TV status
26	Destination B includes text settings, display TV status
27	Destination K includes text settings, display TV status
28	Destination R includes text settings, display TV status
30	No function
31	Geometry adjustment 1
32	Geometry adjustment 2
33	Error monitor
34	No function
35	CRT 4:3 <–> 16:9 ; Display TV status
36	Line 23 detection switch
37	Velocity Modulation (VM) test
38	No function
39	No function
40	No function

41	Screen mode check
42	Reinitialize geometry
43	No function
44	Screen mode DRC100
45	Screen mode DRC50
46	Reserved for dealer commander
47	Reinitialize NVM with program 99
48	Set NVM as non virgin
49	Set NVM as virgin
50	No function
51	Set Dolby volume to 90%
52	Dolby on left speaker only
53	Dolby on right speaker only
54	Dolby on left centre only
55	Dolby surround speaker only
56 ı 59	No function
60	No function
61	Service mode
62	Production mode
65	Reset error codes
68	Ignore errors on
69	Ignore errors off
70	No function
71	No function
72	No function
73	Clear programs
74 ı 79	No function
80	No function
82	PAP H adjustment left image
83 ı 86	No function
87	Personal ID reset with program 99
88	Parental Lock off
89	No function
90	No function

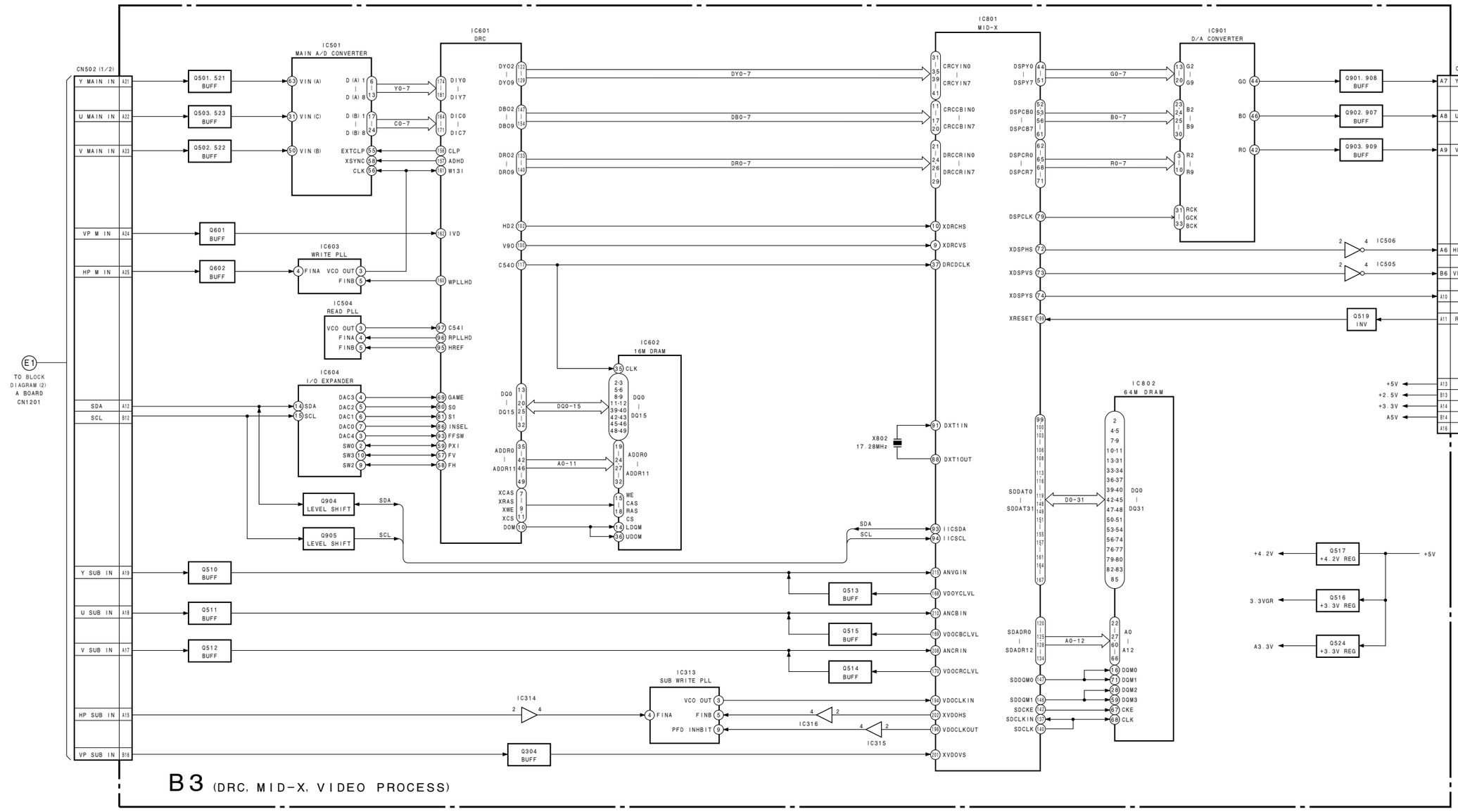
6-1. BLOCK DIAGRAM (1)



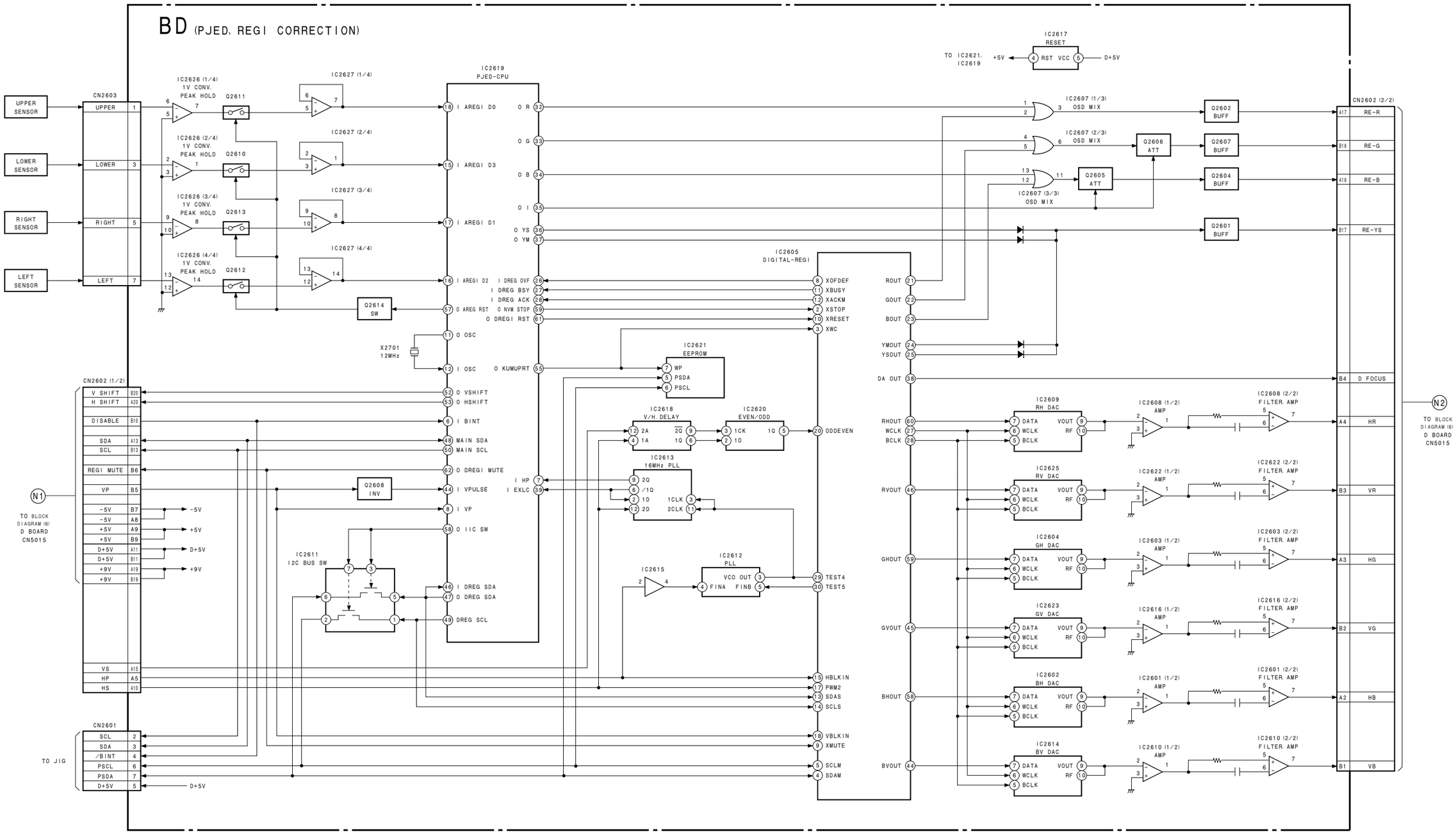
BLOCK DIAGRAM (2)



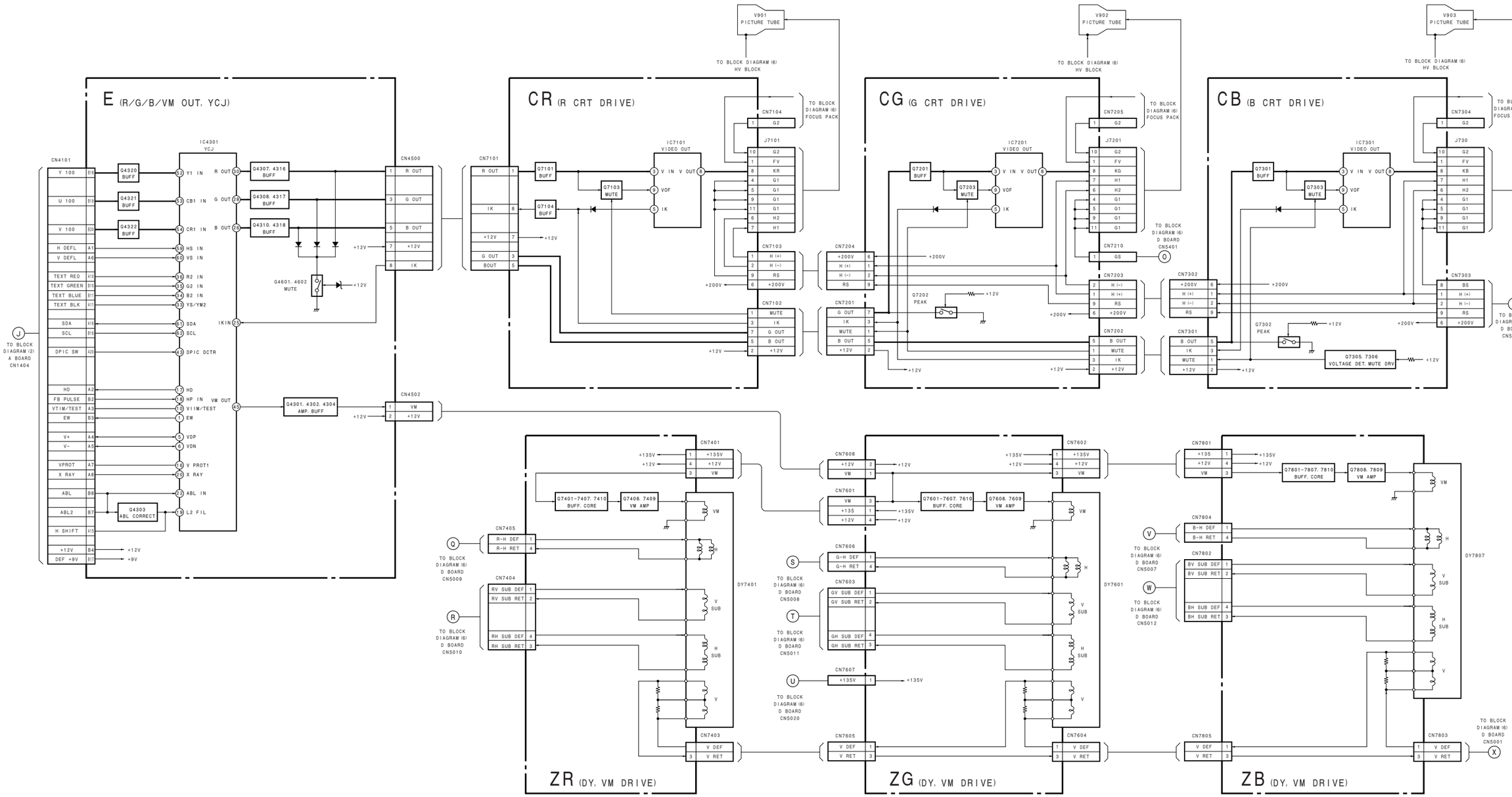
BLOCK DIAGRAM (3)



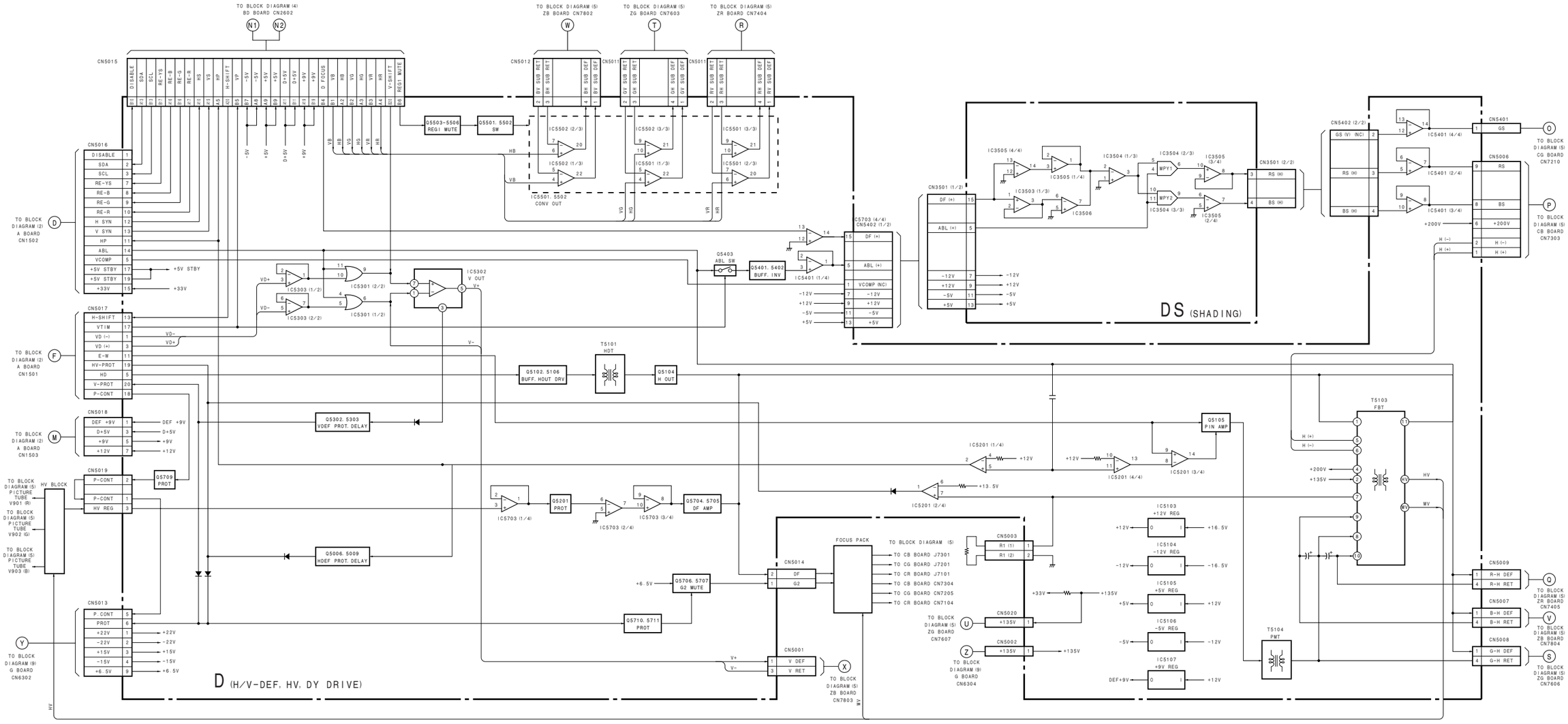
BLOCK DIAGRAM (4)



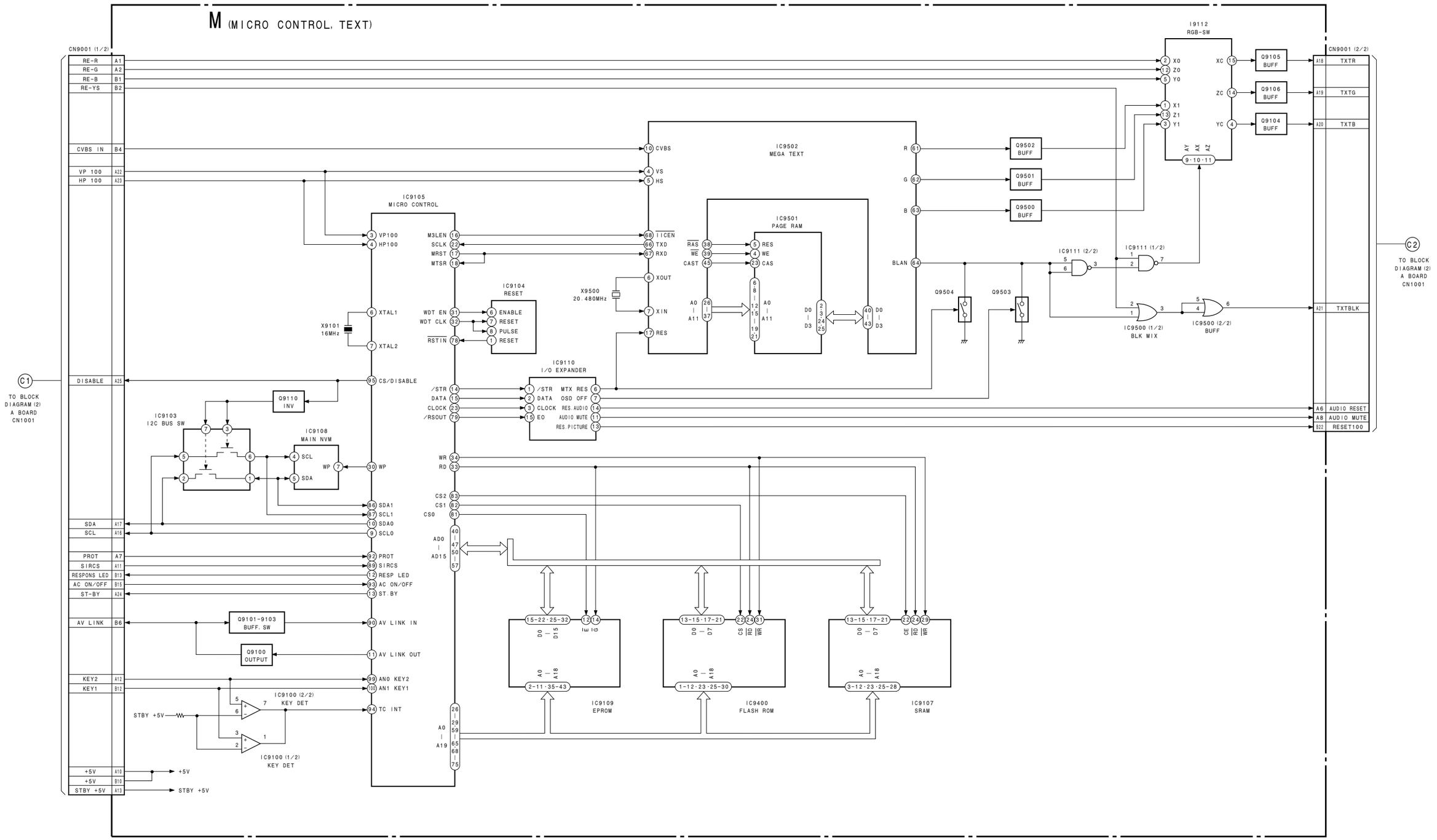
BLOCK DIAGRAM (5)



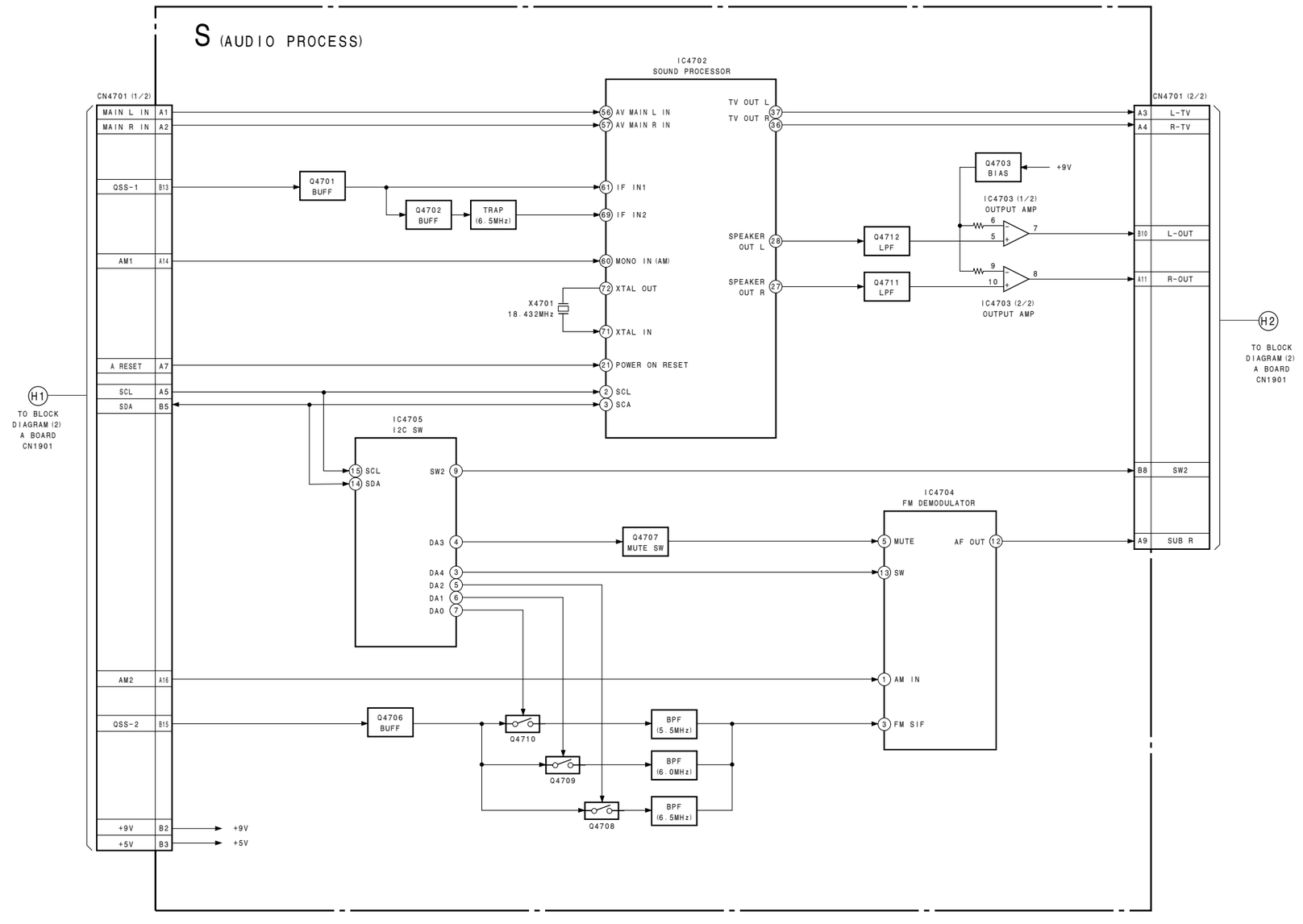
BLOCK DIAGRAM (6)



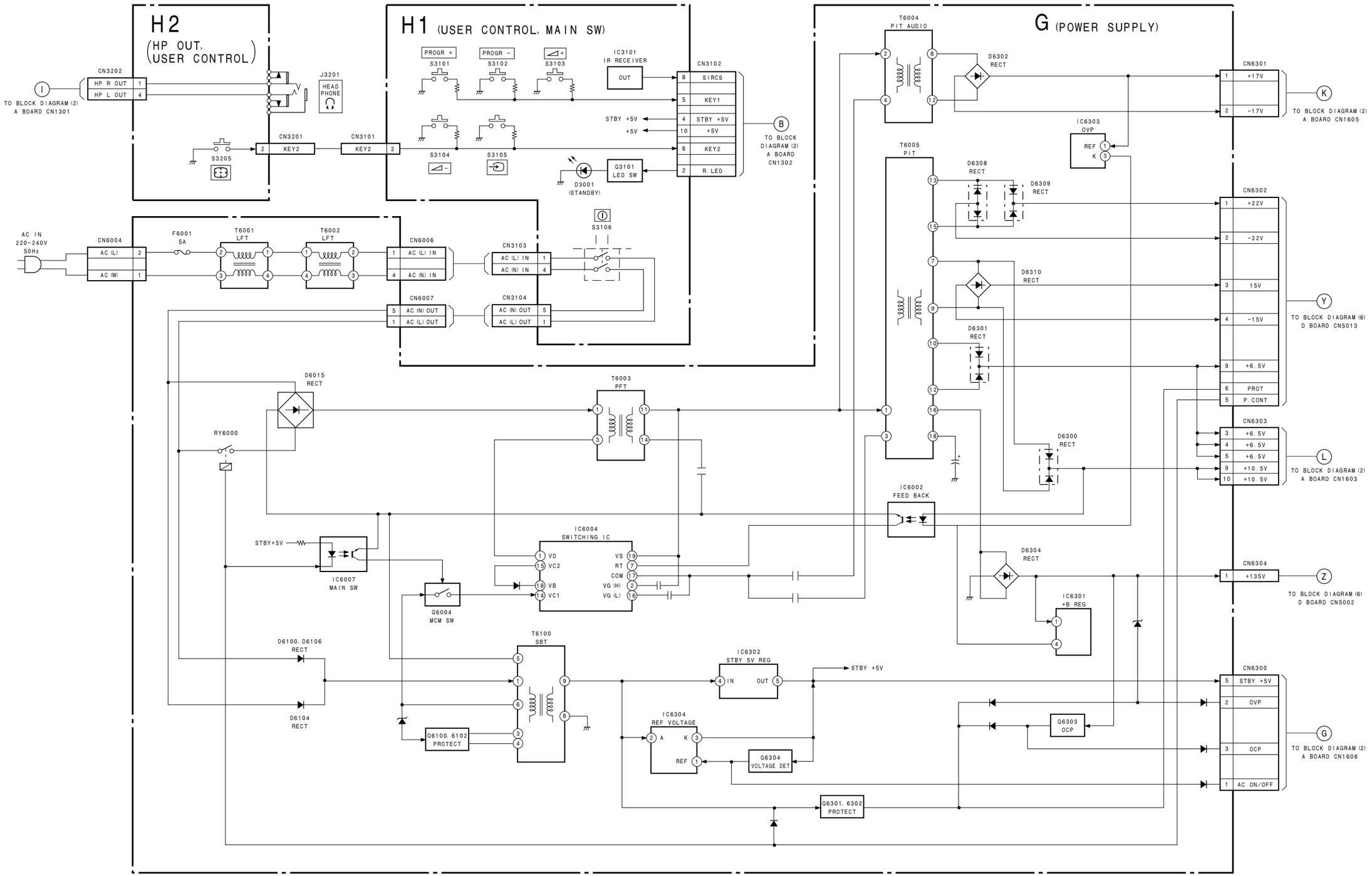
BLOCK DIAGRAM (7)

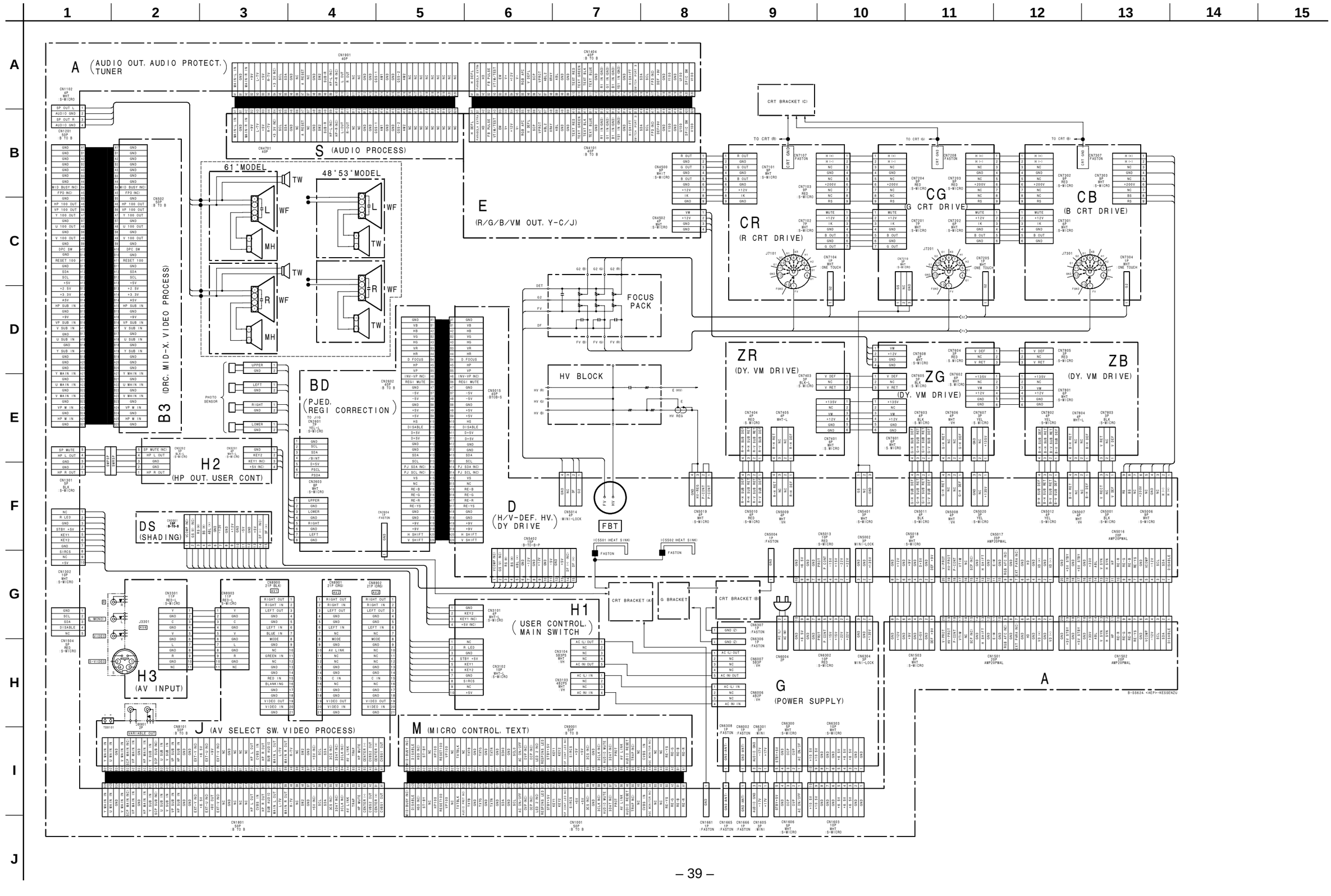


BLOCK DIAGRAM (8)

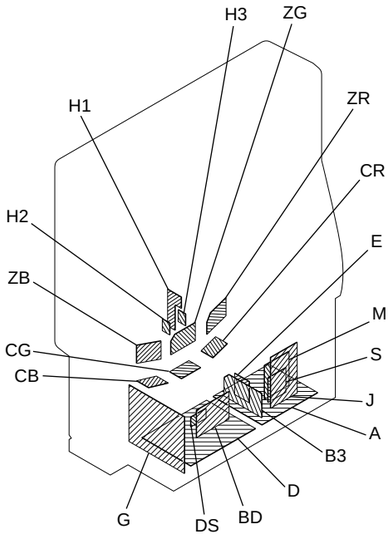


BLOCK DIAGRAM (9)




A (AUDIO OUT, AUDIO PROTECT, TUNER
S (AUDIO PROCESS)
E (R/G/B/VM OUT, Y-C/J)
B3 (DRC, MID-X, VIDEO PROCESS)
61"MODEL
48"53"MODEL
BD (PJED, REGI CORRECTION)
H2 (HP OUT, USER CONT)
DS (SHADING)
H3 (AV INPUT)
H1 (USER CONTROL, MAIN SWITCH)
J (AV SELECT SW, VIDEO PROCESS)
M (MICRO CONTROL, TEXT)
D (H/V-DEF, HV, DY DRIVE)
FBT
FOCUS PACK
HV BLOCK
CRT BRACKET (C)
CRT BRACKET (A)
G BRACKET
CRT BRACKET (B)
CR (R CRT DRIVE)
CG (G CRT DRIVE)
CB (B CRT DRIVE)
ZR (DY, VM DRIVE)
ZG (DY, VM DRIVE)
ZB (DY, VM DRIVE)
G (POWER SUPPLY)
A
B-5624 <AEP><KESSENZU

6-3. CIRCUIT BOARDS LOCATION



6-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- The parts marked "#" on schematic diagrams are not mounted.
- All capacitors are in µF unless otherwise noted. (pF: µµF) Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⊥ : earth-ground.
- : earth-chassis.
- All voltages are in V.
- Readings are taken with a 10 MΩ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ∗ : Can not be measured.
- NO MARK: Common
- < > : SECAM
- ( ) : NTSC 3.58 MHz
- Circled numbers are waveform references.
- : B + bus.
- : B – bus.
- : Signal path.
- The components identified by ⋈ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. (See page 15)
- When replacing the part in below table, be sure to perform the related adjustment.

Part Replaced (◪)	Adjustment (⋈)
C5123, C5127, C5130, C5143, D5115, D5204, Q5104, R5136, R5138, R5140, R9901, T5102, T5103 (FBT), T5104, D Board	R9901 (HV Hold-Down)

- Divided schematic diagram
  Schematic diagrams of A, BD, D, G, J and M boards are divided into several pieces. Information to where the line is to be connected is printed at the end of each line.
  For example, [**TO A1/3,A2/3_1**] means the line is connected to Ref. No. 1 of A (1/3) and A (2/3) schematic diagrams.

TO A1/3,A2/3_1

Ref. No.
Name of divided schematic diagram

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

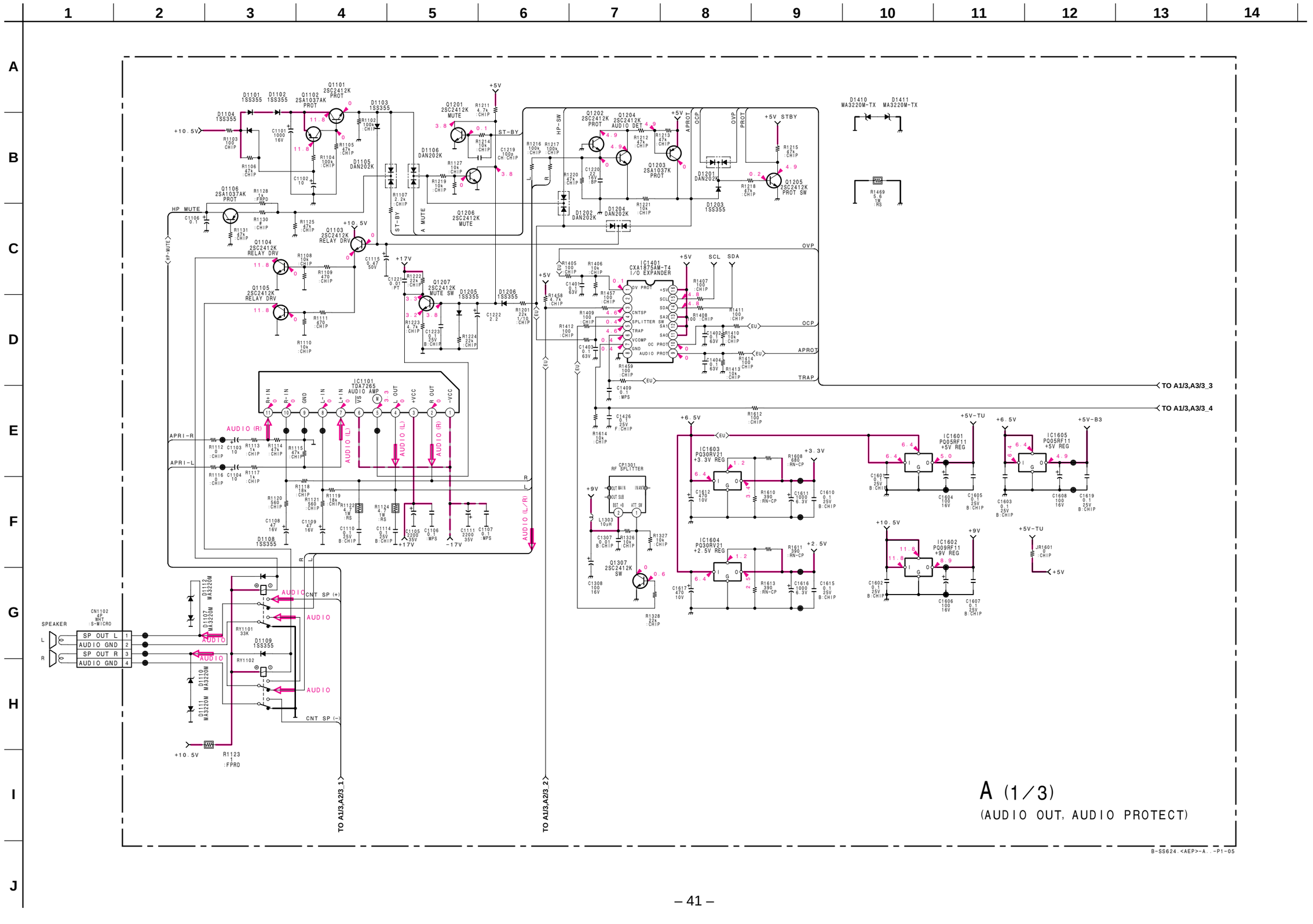
Terminal name of semiconductors in silk screen printed circuit (∗)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor	T	Collector / Base T Emitter	
②	Transistor	—	Collector / Base Emitter	
③	Diode	⊐	Cathode → Anode	
④	Diode	T	Cathode / Anode T (NC)	
⑤	Diode	—	Cathode / Anode (NC)	
⑥	Diode	T	Common / Anode T Cathode	
⑦	Diode	—	Common / Anode Cathode	
⑧	Diode	T	Common / Anode T Anode	
⑨	Diode	—	Common / Anode Anode	
⑩	Diode	T	Common / Cathode T Cathode	
⑪	Diode	—	Common / Cathode Cathode	
⑫	Diode	▌	Anode Cathode / Anode Anode / Cathode Anode	
⑬	Transistor (FET)	▌	Drain ▌ Source / Gate	
⑭	Transistor (FET)	⊢	Drain ⊢ Source / Gate	
⑮	Transistor (FET)	▌	□ Source / □ Drain / □ Gate	
⑯	Transistor	▌	□ Emitter / □ Collector / □ Base	
⑰	Transistor	⊣⊢	C2 B1 E1 / E2 B2 C1	
⑱	Transistor	⊣⊢	C1 B2 E2 / E1 B1 C2	
⑲	Transistor	▬	C1 B2 E2 / E1 B1 C2	
⑳	Transistor	▬	C1 B2 E2 / E1 B1 C2	
㉑	Transistor	▬	E2 B1 E1 / C2 C1(B2)	
㉒	Transistor	▬	(B2) / B1 E1 E2 / C1 C2	
㉓	Transistor	▬	(B2) / E2 E1 B1 / C2 C1	
–	Discrete semiconductot			

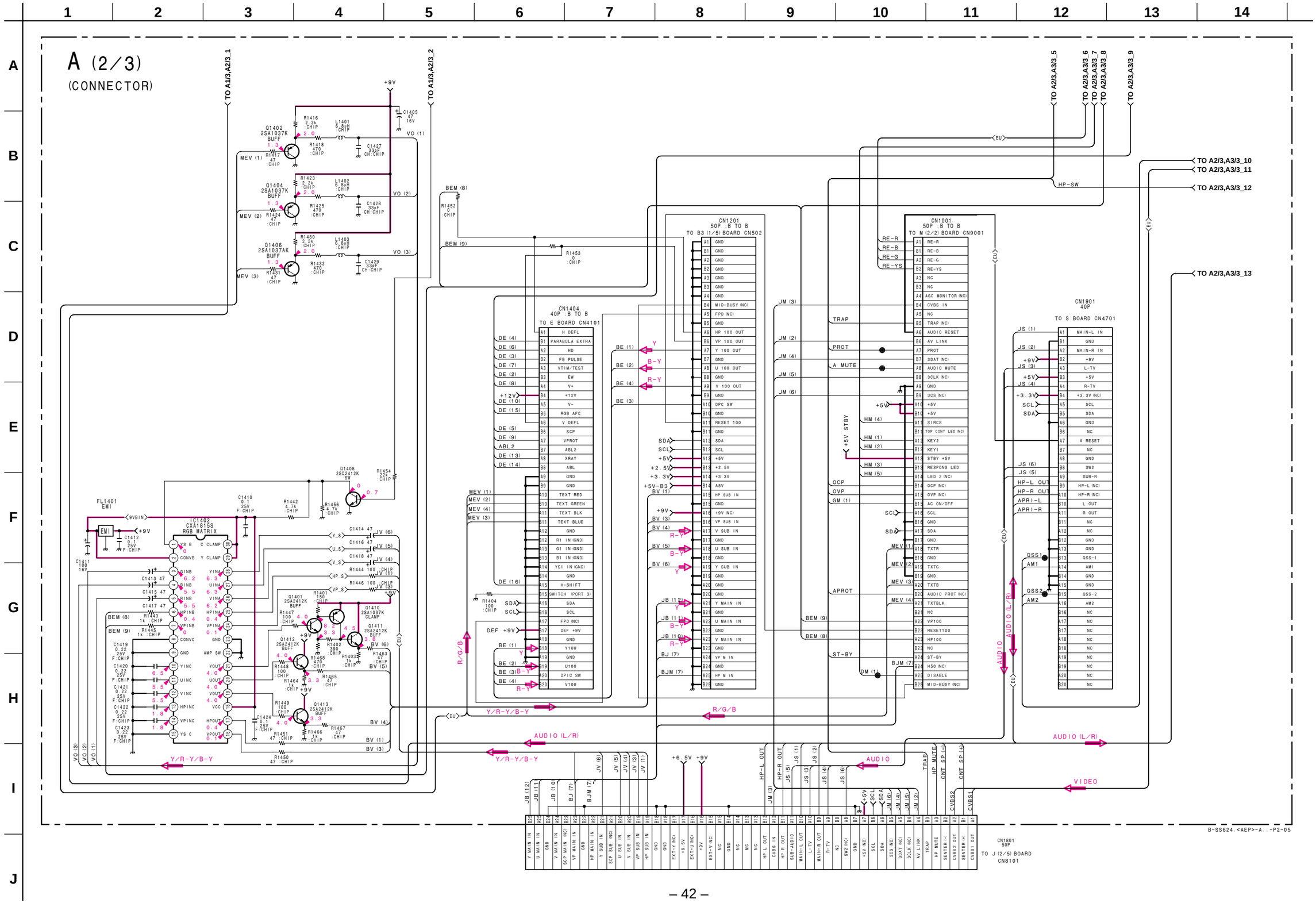
(Chip semiconductors that are not actually used are included.)

Ver.1.5

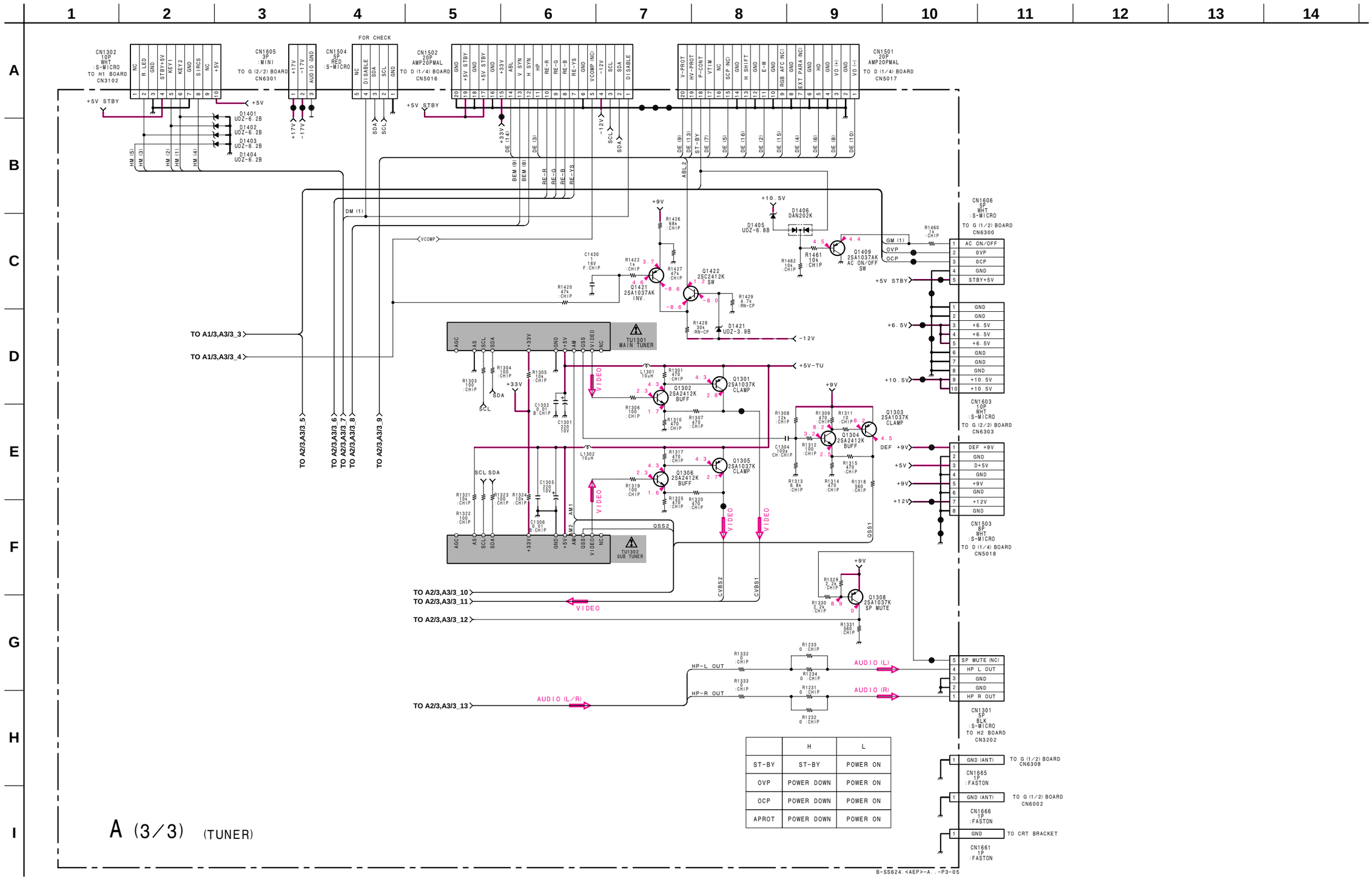
(1) Schematic Diagram of A (1/3) Board



(2) Schematic Diagram of A (2/3) Board

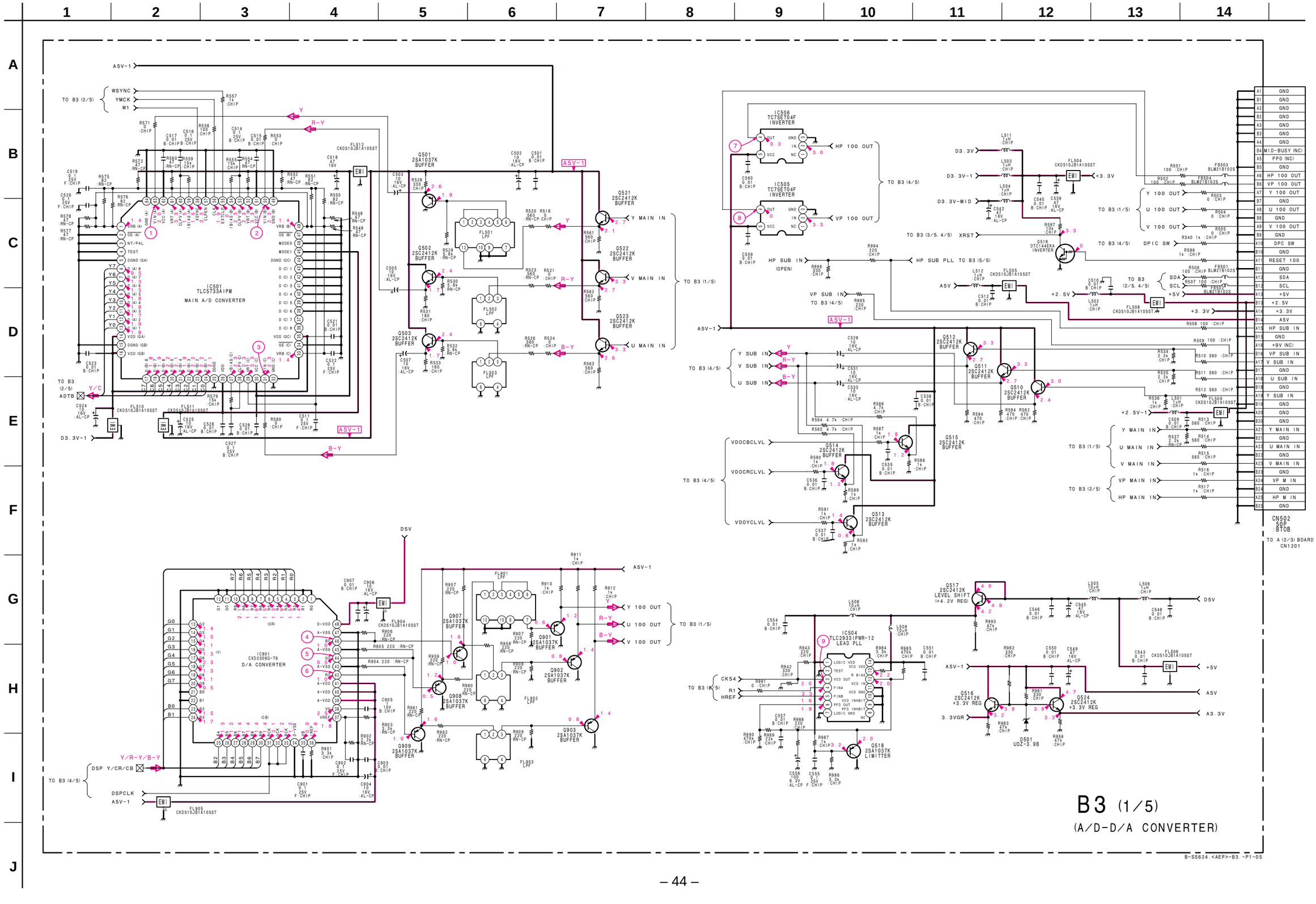


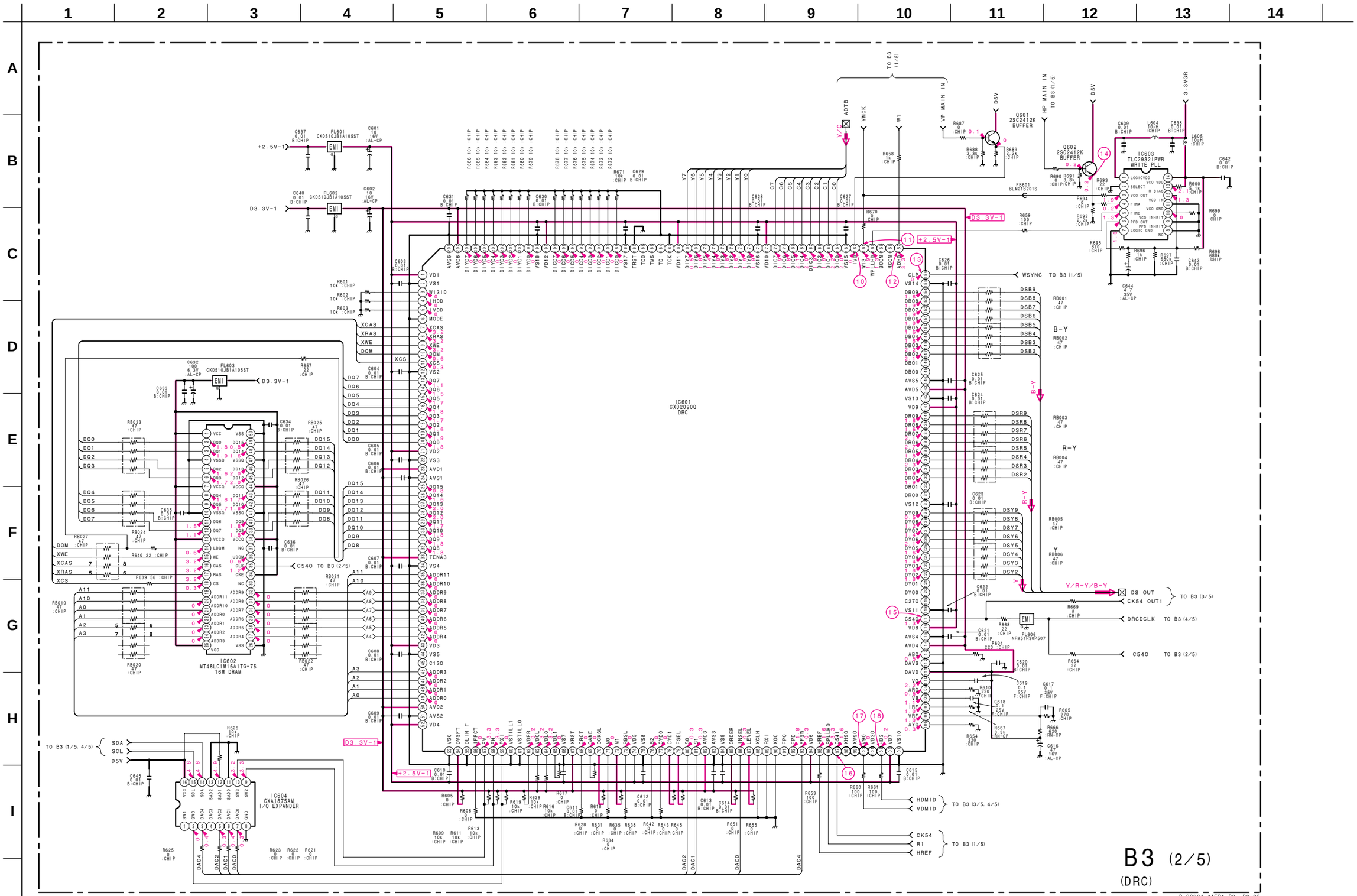
(3) Schematic Diagram of A (3/3) Board

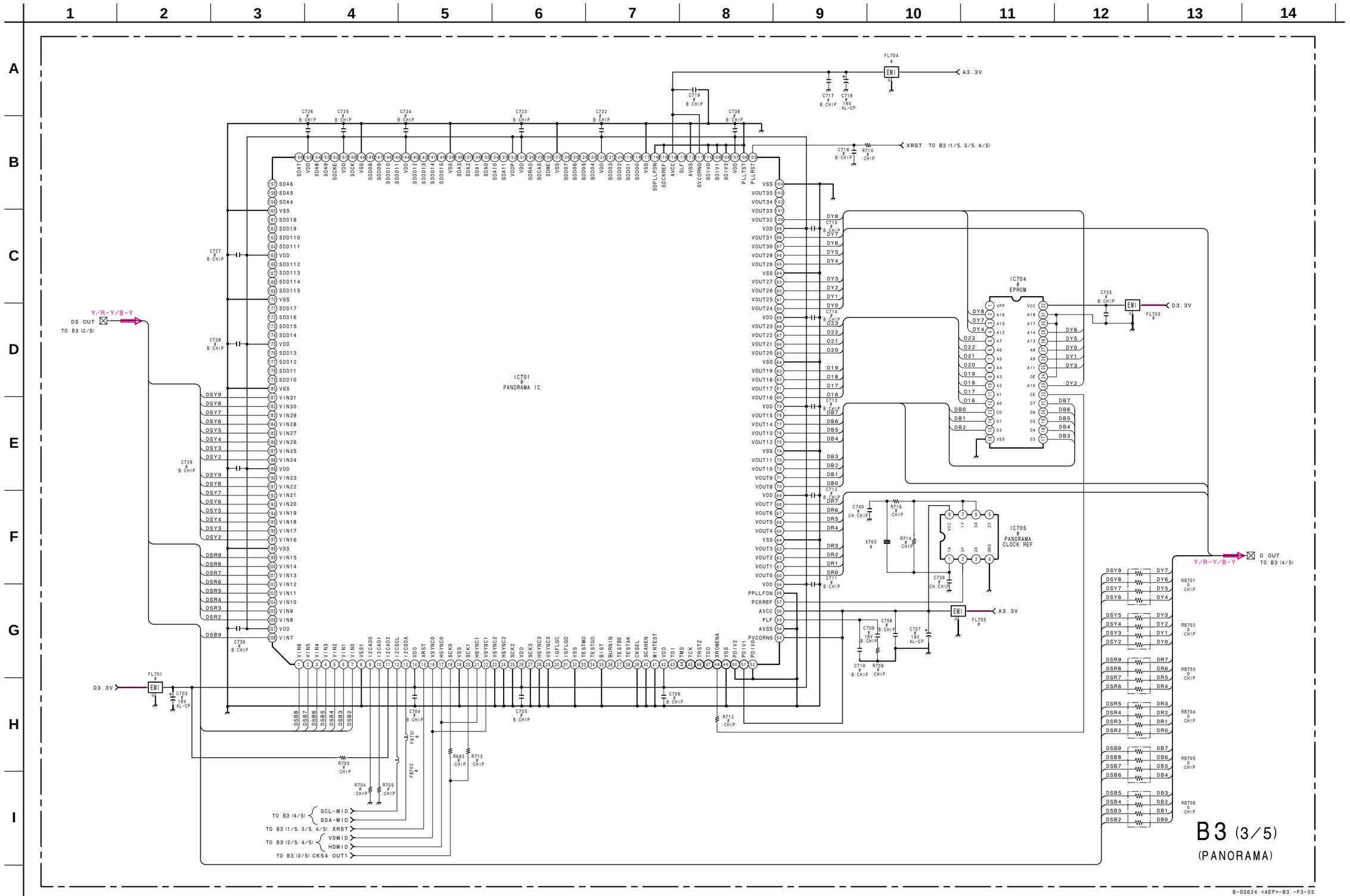


	H	L
ST-BY	ST-BY	POWER ON
OVP	POWER DOWN	POWER ON
OCP	POWER DOWN	POWER ON
APROT	POWER DOWN	POWER ON

(4) Schematic Diagram of B3 (1/5) Board

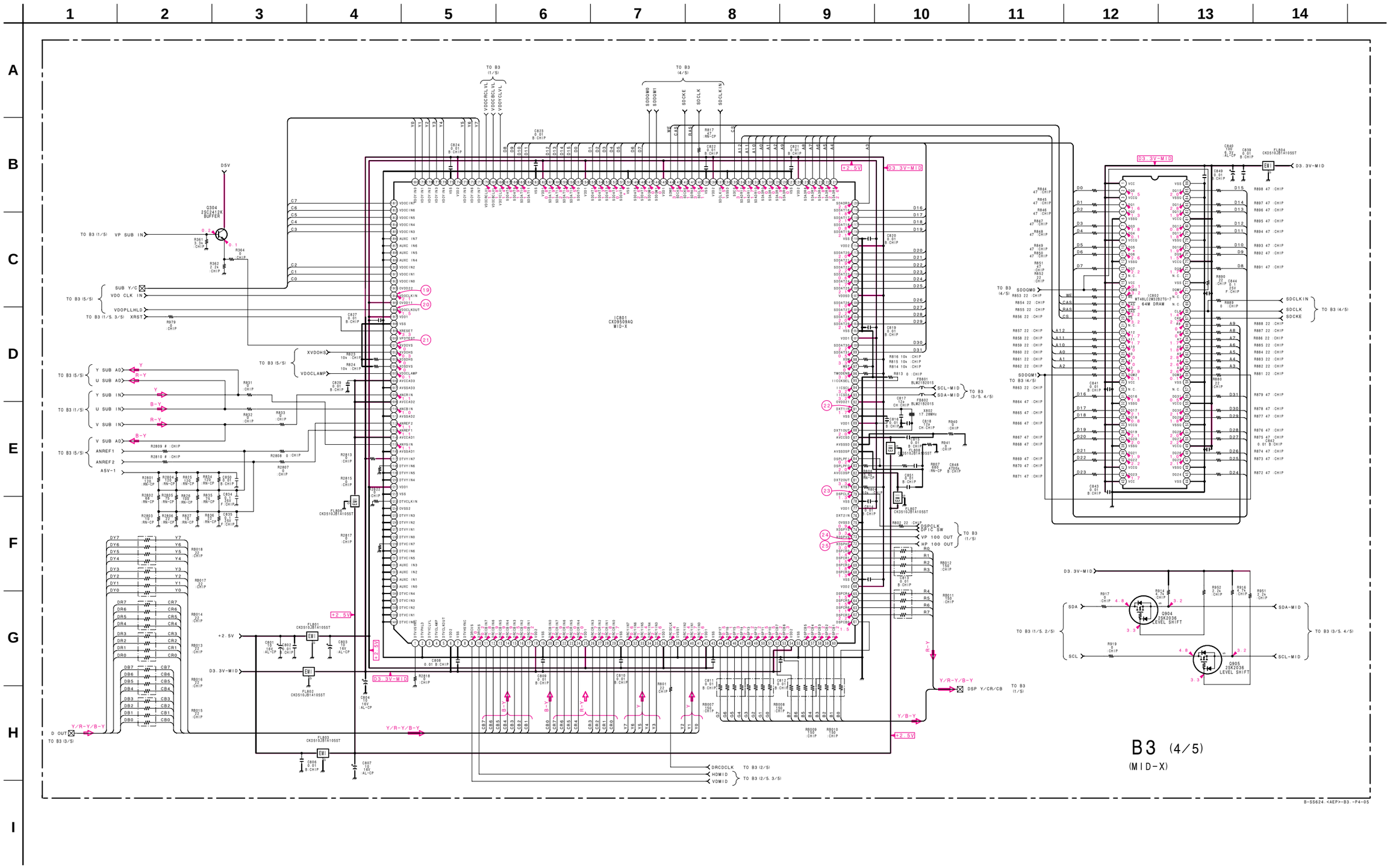



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A
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H
I
J
IC602
MT48LC1M16A1TG-7S
16M DRAM
IC601
CXD2090Q
DRC
IC603
TLC2932IPWR
WRITE PLL
IC604
CXA1875AM
I/O EXPANDER
Q601
2SC2412K
BUFFER
Q602
2SC2412K
BUFFER
FL601
CKD510JB1A105ST
FL602
CKD510JB1A105ST
FL603
CKD510JB1A105ST
FL606
NFM51R30P507
FB601
BLM21B201S
+2.5V-1
D3.3V-1
3.3VGR
D5V
VP MAIN IN
HP MAIN IN
TO B3 (1/5)
WSYNC TO B3 (1/5)
B-Y
R-Y
Y
Y/R-Y/B-Y
DS OUT
CK54 OUT1
DRCDCLK
C540
HDMID
VDMID
CK54
R1
HREF
SDA
SCL
DSV
XCAS
XRAS
XWE
DOM
XCS
C540 TO B3 (2/5)
TO B3 (3/5)
TO B3 (4/5)
TO B3 (3/5, 4/5)
TO B3 (1/5)
B3 (2/5)
(DRC)
B-SS624-<AEP>-B3.-P2-05

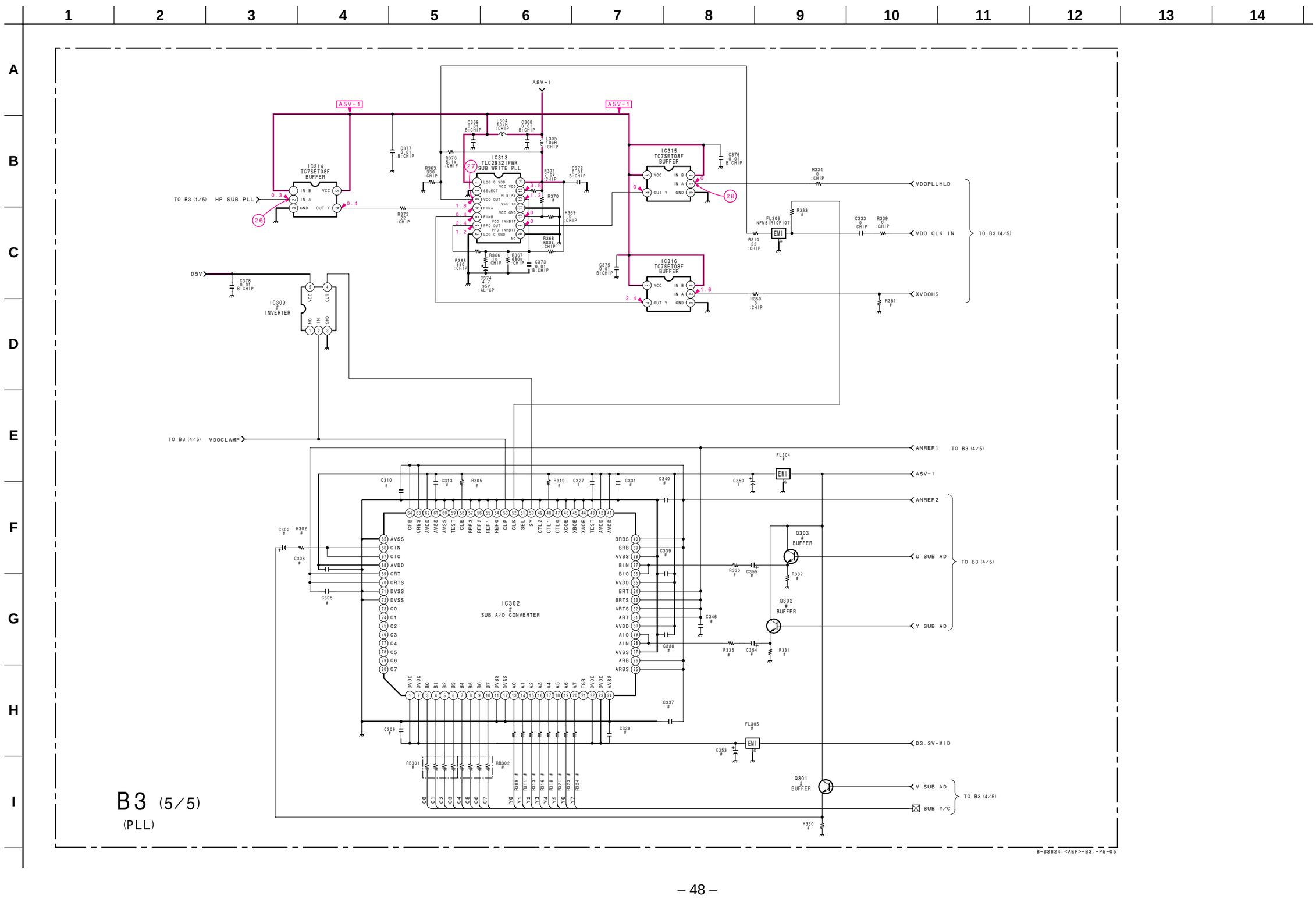


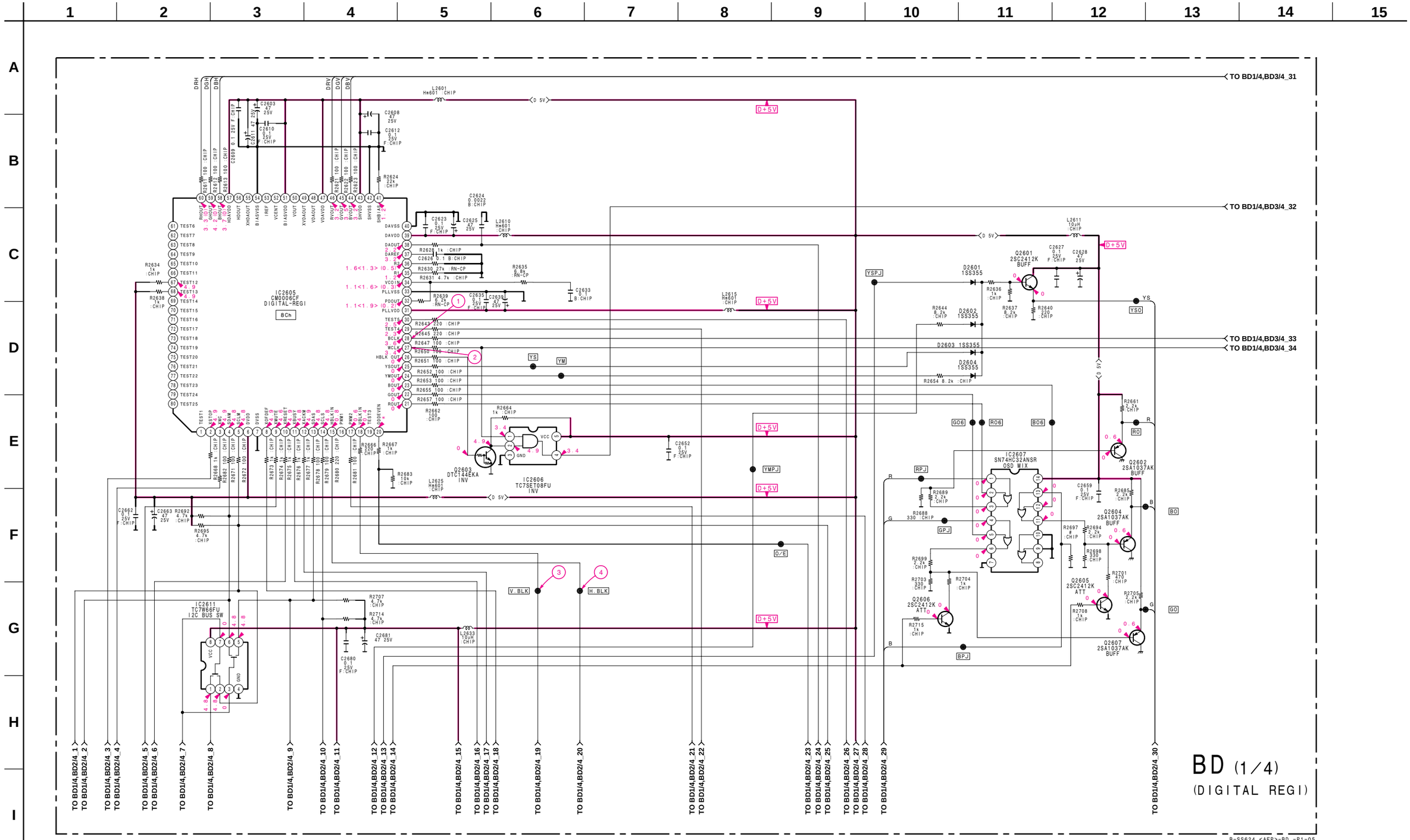
B-SS624.<AEP>-B3.-P3-05

(7) Schematic Diagram of B3 (4/5) Board

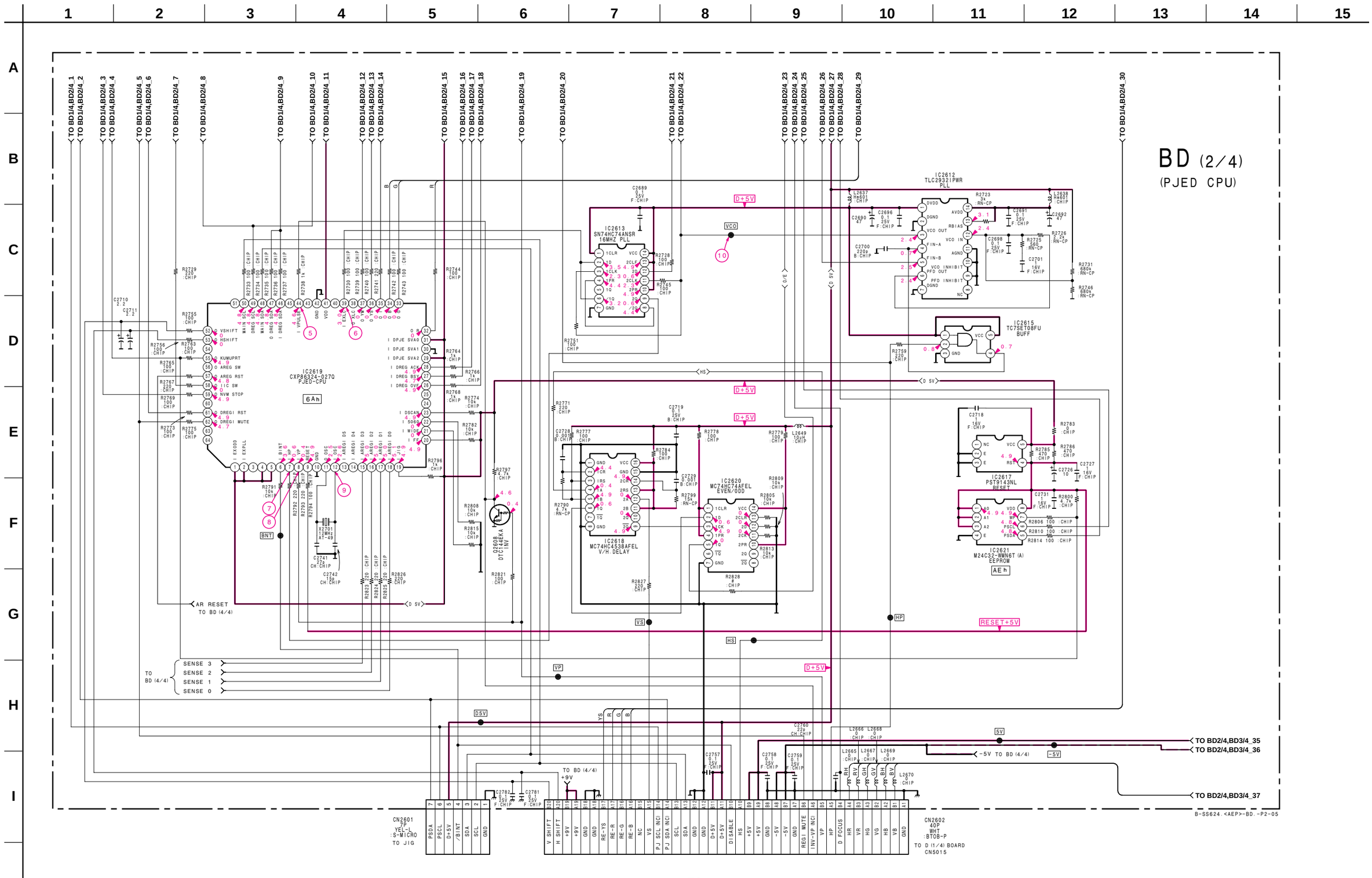


(8) Schematic Diagram of B3 (5/5) Board

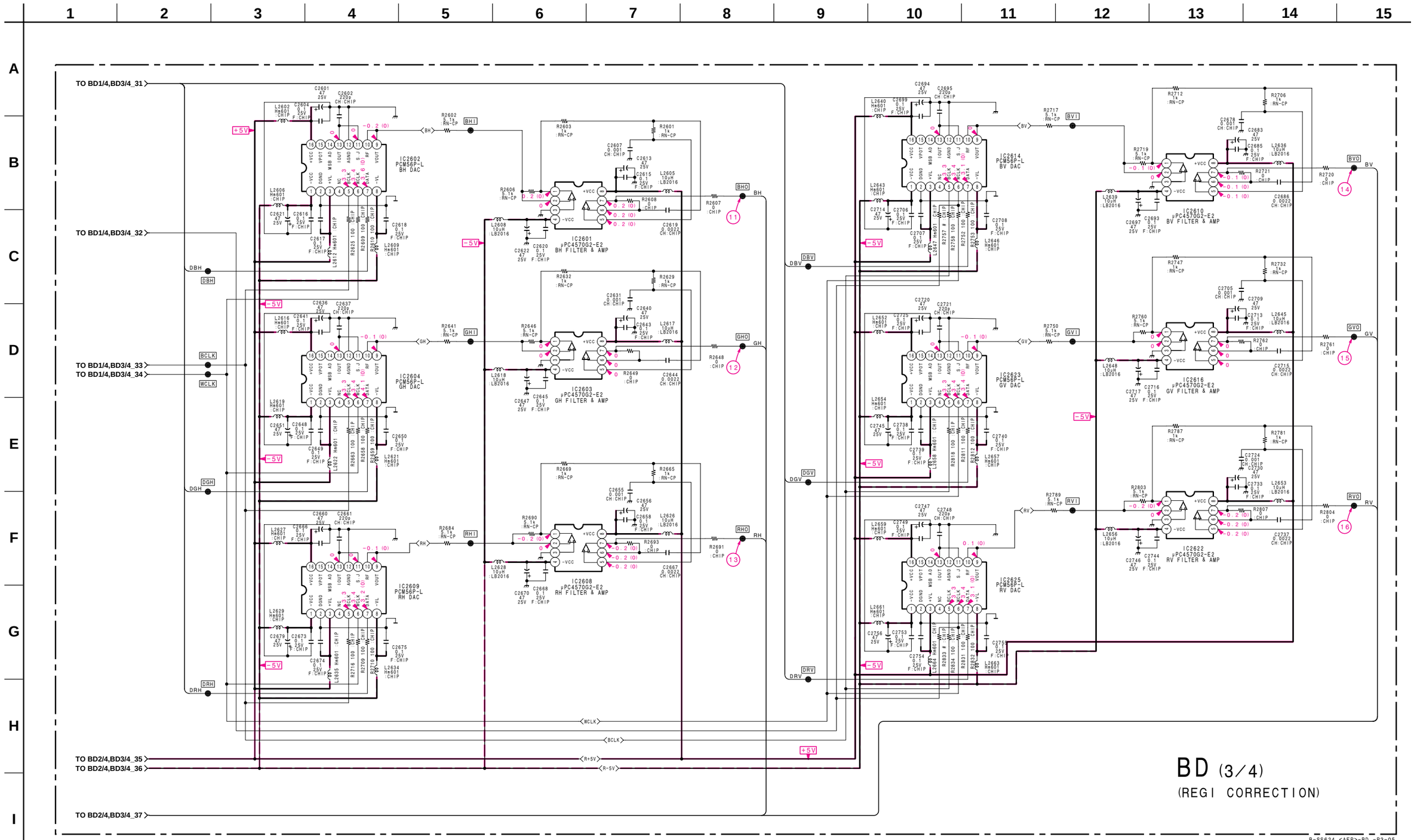



TO BD1/4,BD3/4_31
TO BD1/4,BD3/4_32
TO BD1/4,BD3/4_33
TO BD1/4,BD3/4_34
D+5V
D 5V
IC2605
CM0006CF
DIGITAL-REGI
8Ch
IC2606
TC7SET08FU
INV
IC2607
SN74HC32ANSR
OSD MIX
IC2611
TC7W66FU
I2C BUS SW
Q2601
2SC2412K
BUFF
Q2602
2SA1037AK
BUFF
Q2603
DTC144EKA
INV
Q2604
2SA1037AK
BUFF
Q2605
2SC2412K
ATT
Q2606
2SC2412K
ATT
Q2607
2SA1037AK
BUFF
D2601
1SS355
D2602
1SS355
D2603 1SS355
D2604
1SS355
YS
YM
YSPJ
YSO
YMPJ
RPJ
GPJ
BPJ
RO
GO
BO
RO6
GO6
BO6
O/E
V.BLK
H.BLK
TO BD1/4,BD2/4_1
TO BD1/4,BD2/4_2
TO BD1/4,BD2/4_3
TO BD1/4,BD2/4_4
TO BD1/4,BD2/4_5
TO BD1/4,BD2/4_6
TO BD1/4,BD2/4_7
TO BD1/4,BD2/4_8
TO BD1/4,BD2/4_9
TO BD1/4,BD2/4_10
TO BD1/4,BD2/4_11
TO BD1/4,BD2/4_12
TO BD1/4,BD2/4_13
TO BD1/4,BD2/4_14
TO BD1/4,BD2/4_15
TO BD1/4,BD2/4_16
TO BD1/4,BD2/4_17
TO BD1/4,BD2/4_18
TO BD1/4,BD2/4_19
TO BD1/4,BD2/4_20
TO BD1/4,BD2/4_21
TO BD1/4,BD2/4_22
TO BD1/4,BD2/4_23
TO BD1/4,BD2/4_24
TO BD1/4,BD2/4_25
TO BD1/4,BD2/4_26
TO BD1/4,BD2/4_27
TO BD1/4,BD2/4_28
TO BD1/4,BD2/4_29
TO BD1/4,BD2/4_30
BD (1/4)
(DIGITAL REGI)
B-SS624:<AEP>-BD.-P1-05

(10) Schematic Diagram of BD (2/4) Board



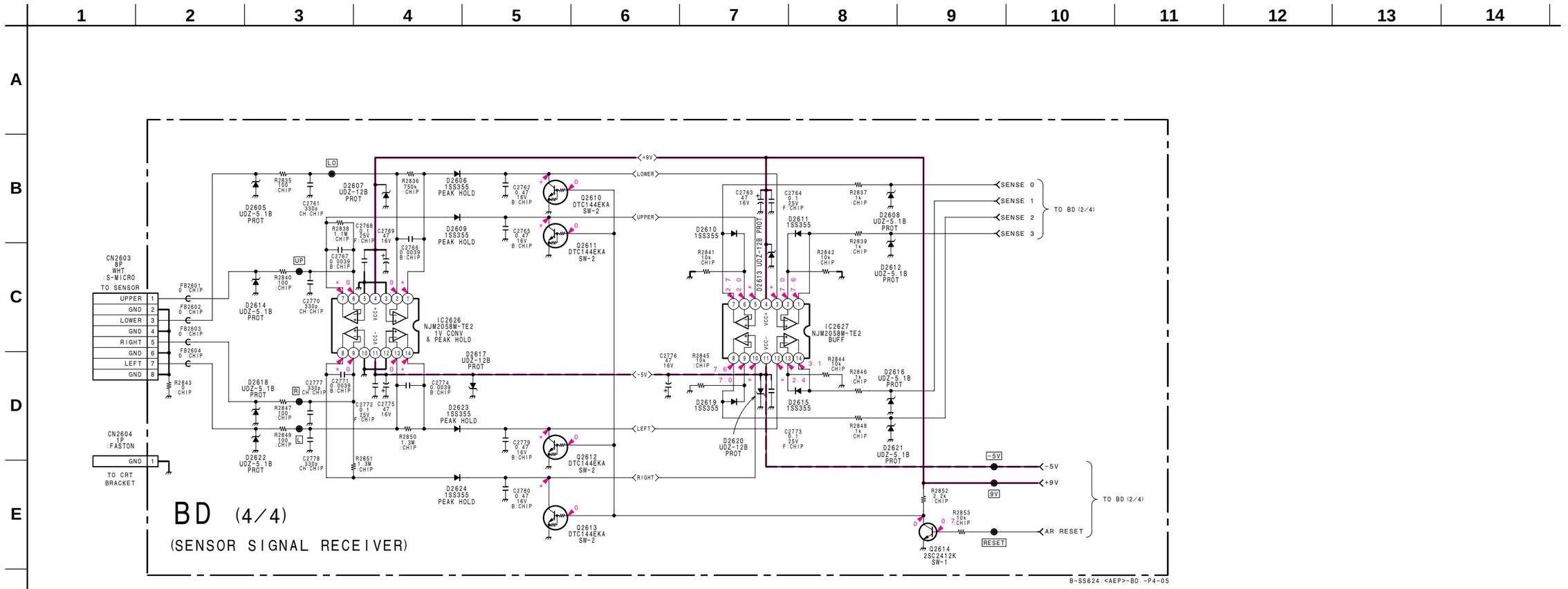
(11) Schematic Diagram of BD (3/4) Board



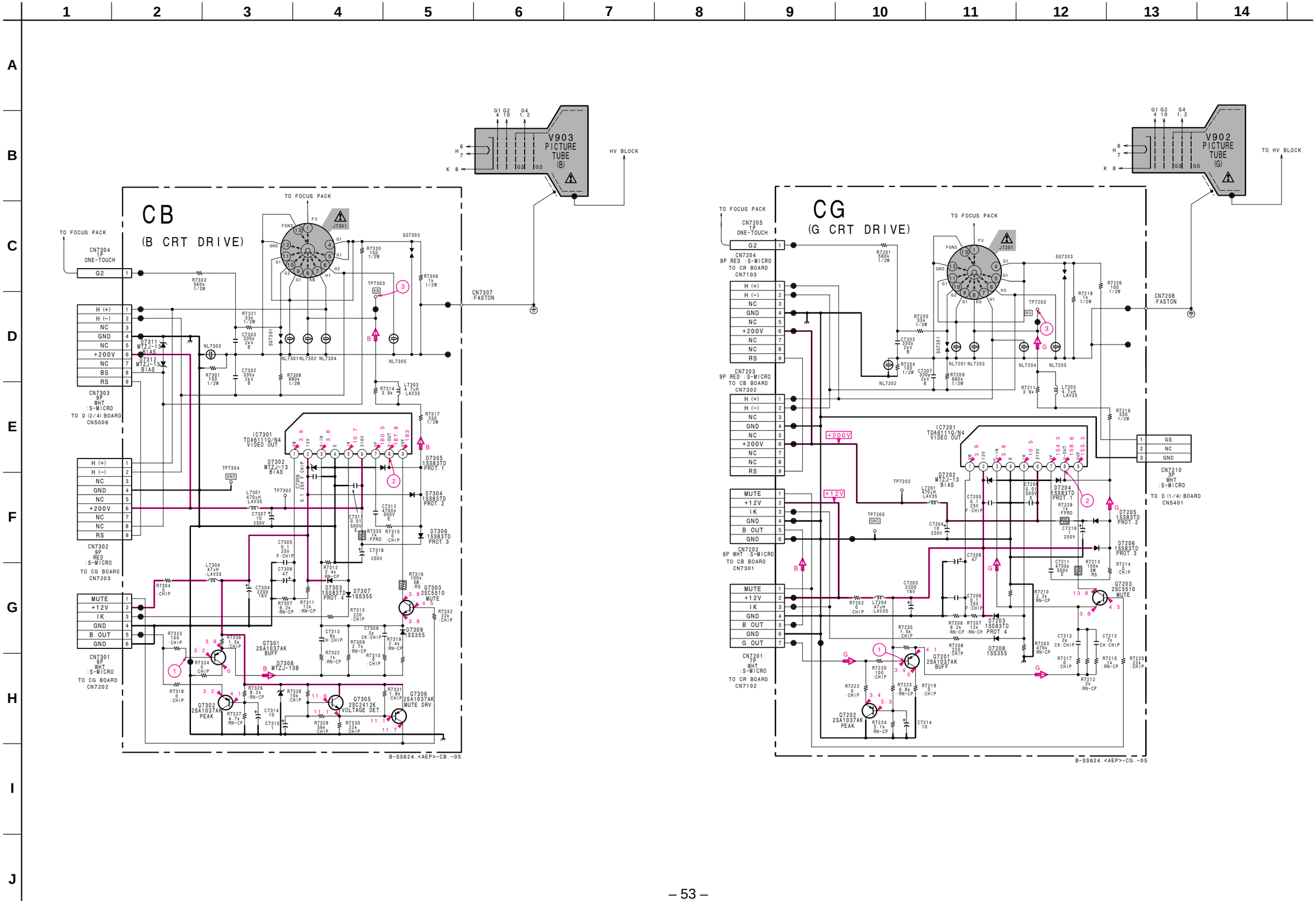
BD (3/4)

(REGI CORRECTION)

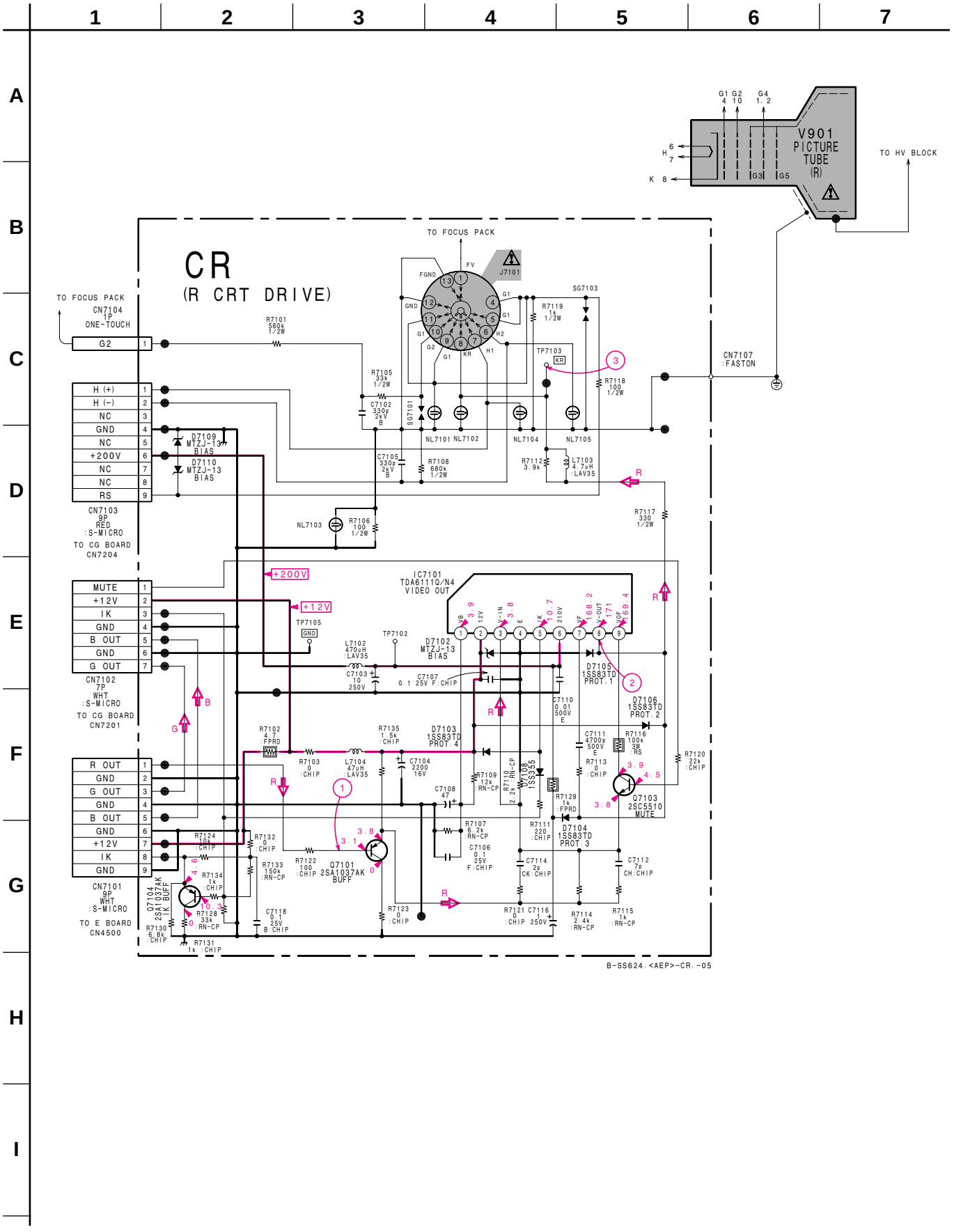
B-SS624.<AEP>-BD.-P3-05


BD (4/4)
(SENSOR SIGNAL RECEIVER)
CN2603
8P
WHT
:S-MICRO
TO SENSOR
UPPER
GND
LOWER
GND
RIGHT
GND
LEFT
GND
CN2604
1P
:FASTON
GND
TO CRT
BRACKET
IC2626
NJM2058M-TE2
1V CONV
& PEAK HOLD
IC2627
NJM2058M-TE2
BUFF
Q2610
DTC144EKA
SW-2
Q2611
DTC144EKA
SW-2
Q2612
DTC144EKA
SW-2
Q2613
DTC144EKA
SW-2
Q2614
2SC2412K
SW-1
+9V
LOWER
UPPER
-5V
LEFT
RIGHT
SENSE 0
SENSE 1
SENSE 2
SENSE 3
TO BD (2/4)
-5V
+9V
9V
AR RESET
RESET
TO BD (2/4)
B-SS624.<AEP>-BD.-P4-05

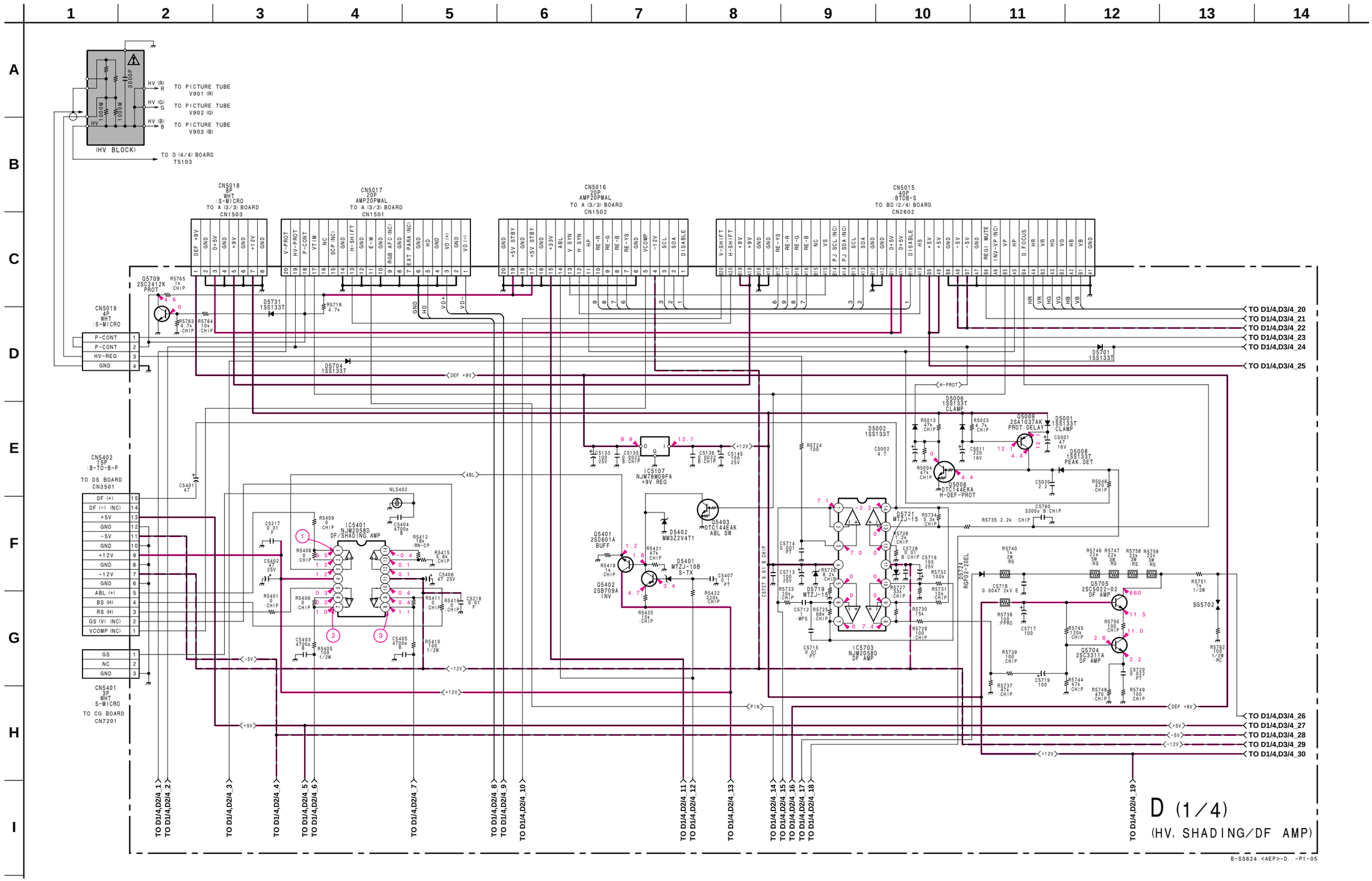
(13) Schematic Diagrams of CB and CG Board

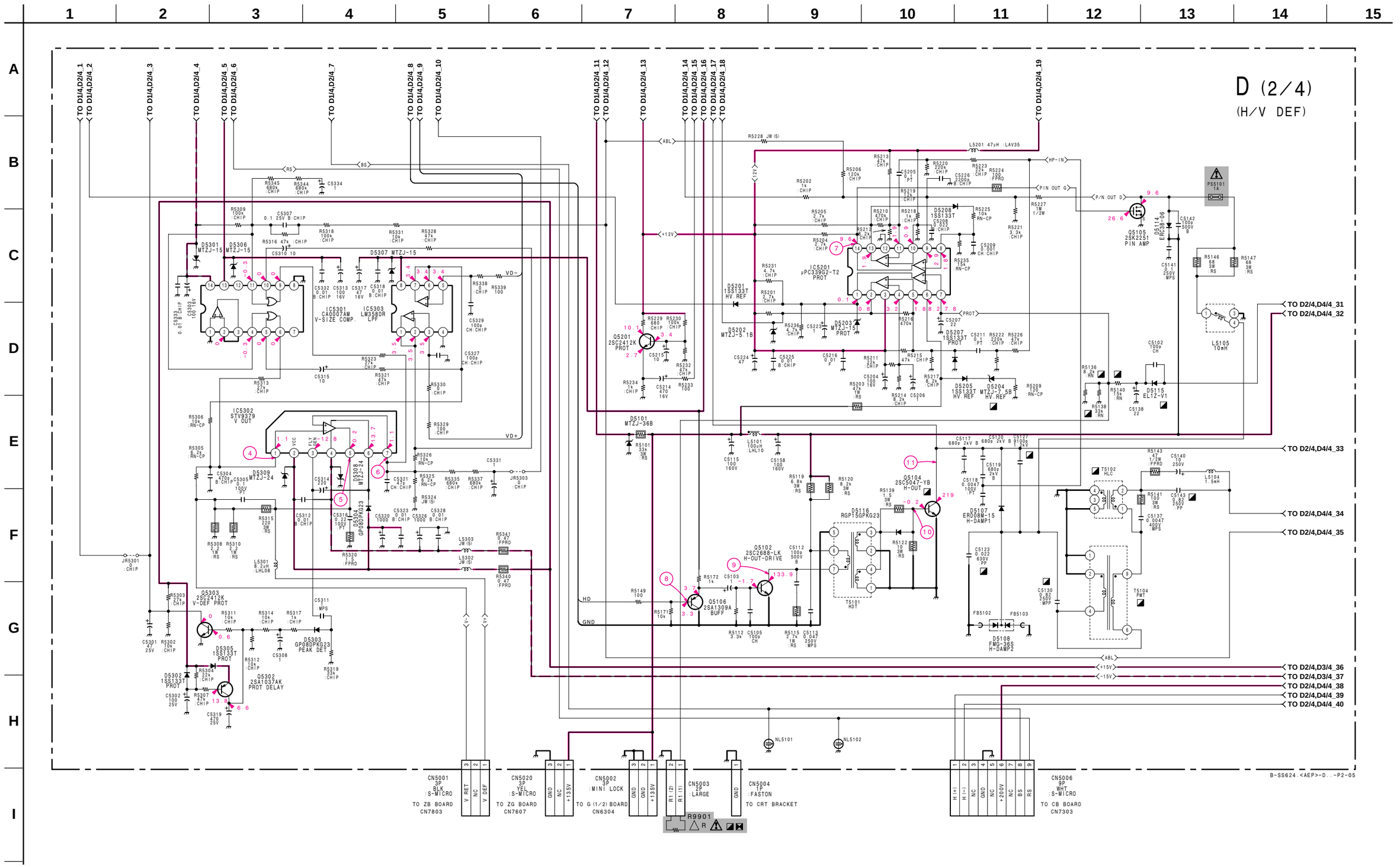


(14) Schematic Diagram of CR Board

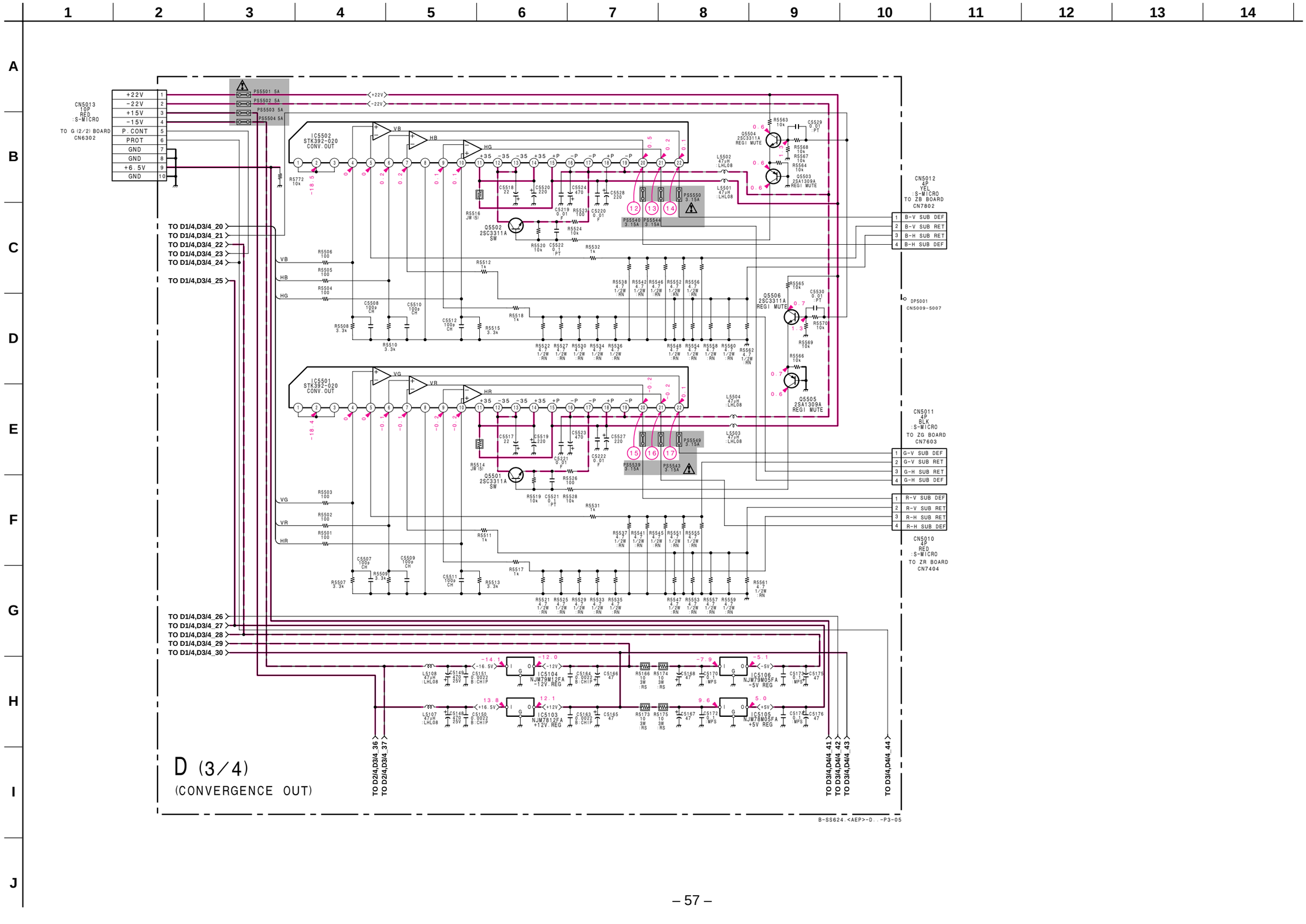


(15) Schematic Diagram of D (1/4) Board

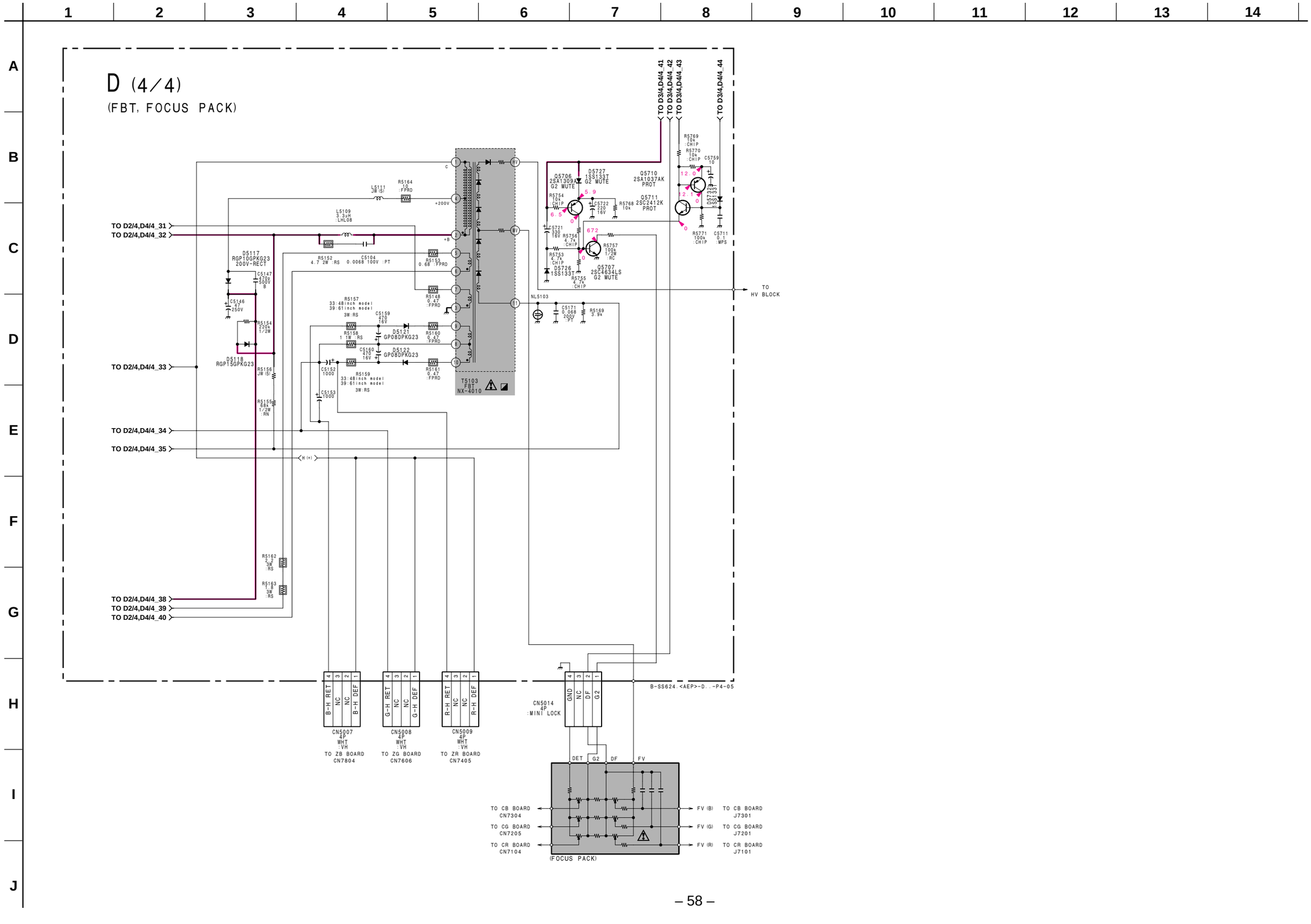



D (2/4)
(H/V DEF)
TO D1/4,D2/4_1
TO D1/4,D2/4_2
TO D1/4,D2/4_3
TO D1/4,D2/4_4
TO D1/4,D2/4_5
TO D1/4,D2/4_6
TO D1/4,D2/4_7
TO D1/4,D2/4_8
TO D1/4,D2/4_9
TO D1/4,D2/4_10
TO D1/4,D2/4_11
TO D1/4,D2/4_12
TO D1/4,D2/4_13
TO D1/4,D2/4_14
TO D1/4,D2/4_15
TO D1/4,D2/4_16
TO D1/4,D2/4_17
TO D1/4,D2/4_18
TO D1/4,D2/4_19
TO D2/4,D4/4_31
TO D2/4,D4/4_32
TO D2/4,D4/4_33
TO D2/4,D4/4_34
TO D2/4,D4/4_35
TO D2/4,D3/4_36
TO D2/4,D3/4_37
TO D2/4,D4/4_38
TO D2/4,D4/4_39
TO D2/4,D4/4_40
IC5301 CA0007AM V-SIZE COMP.
IC5303 LM358DR LPF
IC5302 STV9379 V OUT
IC5201 μPC339G2-T2 PROT
Q5105 2SK2251 PIN AMP
Q5104 2SC5047-YB H-OUT
Q5102 2SC2688-LK H-OUT-DRIVE
Q5106 2SA1309A BUFF
Q5303 2SC2412K V-DEF PROT
Q5305 1SS133T PROT
Q5302 2SA1037AK PROT DELAY
Q5201 2SC2412K PROT
D5101 MTZJ-36B
D5301 MTZJ-15
D5306 MTZJ-15
D5307 MTZJ-15
D5309 MTZJ-24
D5308 MTZJ-24
D5310 GP08DPKG23
D5303 GP08DPKG23 PEAK DET
D5201 1SS133T HV.REF
D5202 MTZJ-5.1B
D5203 MTZJ-15 PROT
D5204 MTZJ-7.5B HV.REF
D5205 1SS133T HV.REF
D5207 1SS133T PROT
D5208 1SS133T
D5107 ERD06M-15 H-DAMP1
D5108 FMG-36S H-DAMP2
D5116 RGP15GPKG23
T5101 HDT
T5102 HLC
T5104 FMT
L5301 47μH :LAV35
L5101 100μH :LHL10
L5105 10mH
L5104 1.5mH
PS5101 1A
CN5001 9P BLK :S-MICRO TO ZB BOARD CN7803
CN5020 3P YEL :S-MICRO TO ZG BOARD CN7607
CN5002 9P :MINI LOCK TO G (1/2) BOARD CN6304
CN5003 2P :LARGE
CN5004 1P :FASTON TO CRT BRACKET
CN5006 9P WHT :S-MICRO TO CB BOARD CN7303
R9901
NL5101
NL5102
ABL
+12V
+15V
-15V
HD
GND
HP-IN
PIN OUT G
P/N OUT D
PROT
B-SS624-<AEP>-D--P2-05

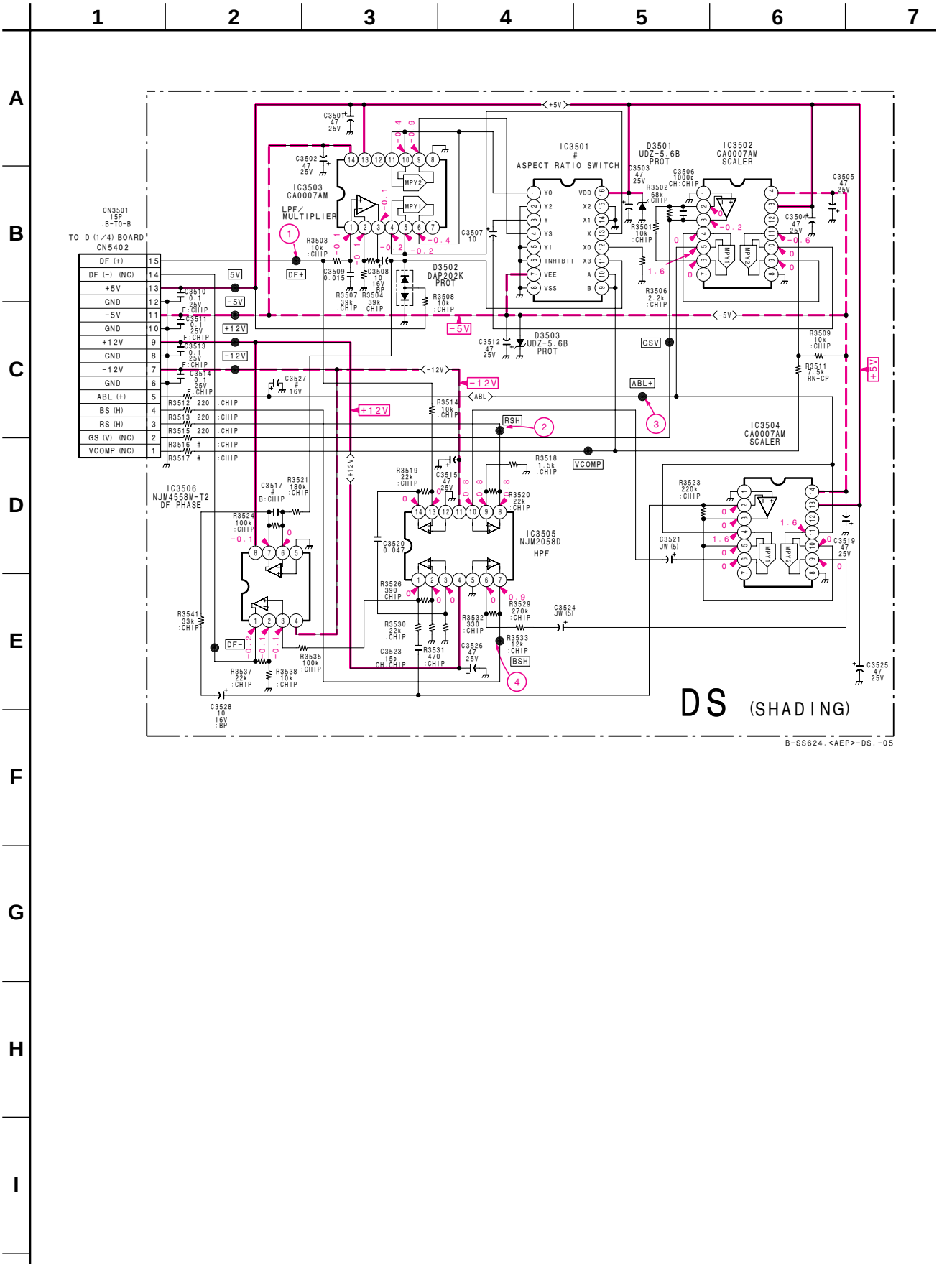
(17) Schematic Diagram of D (3/4) Board



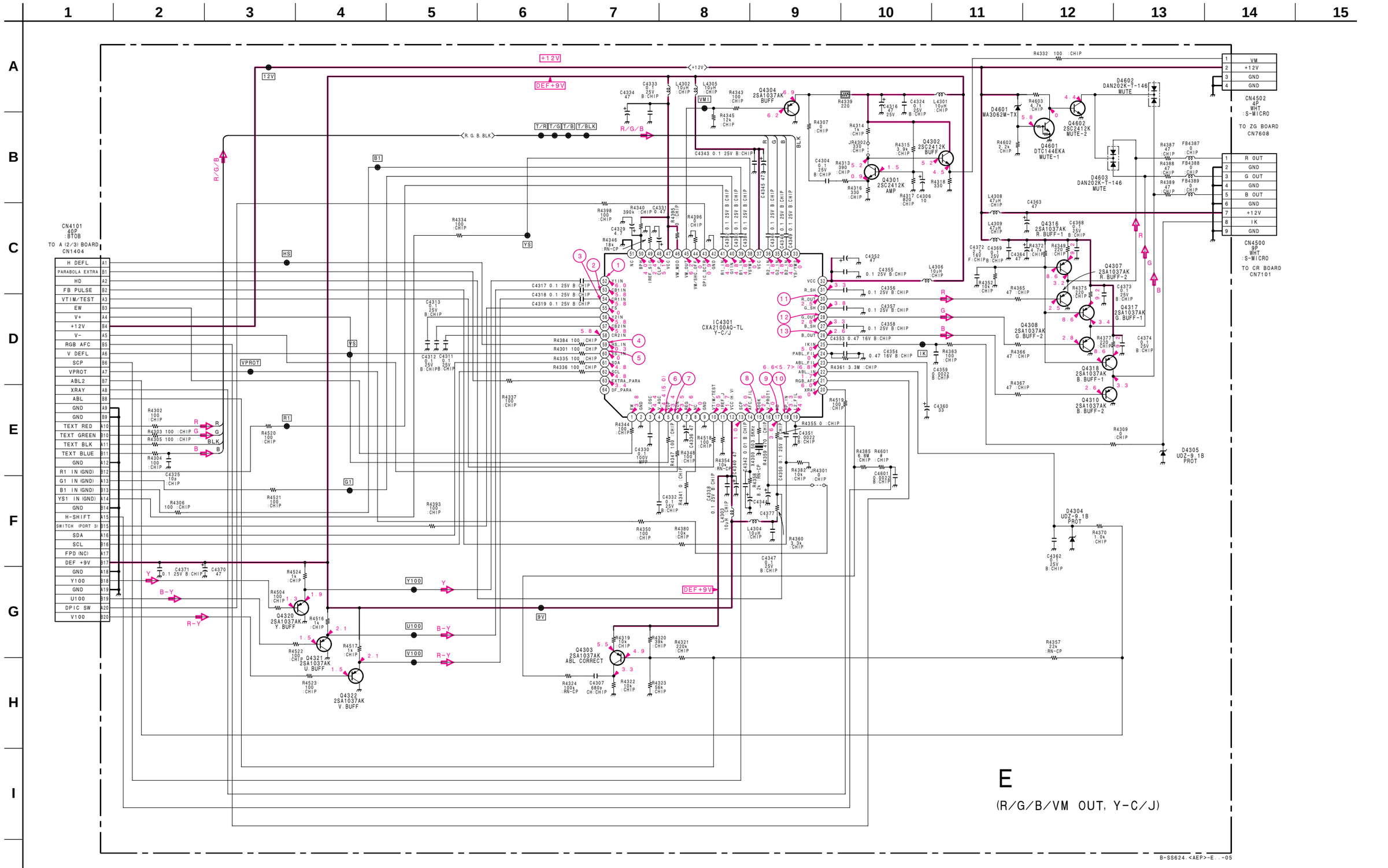
(18) Schematic Diagram of D (4/4) Board

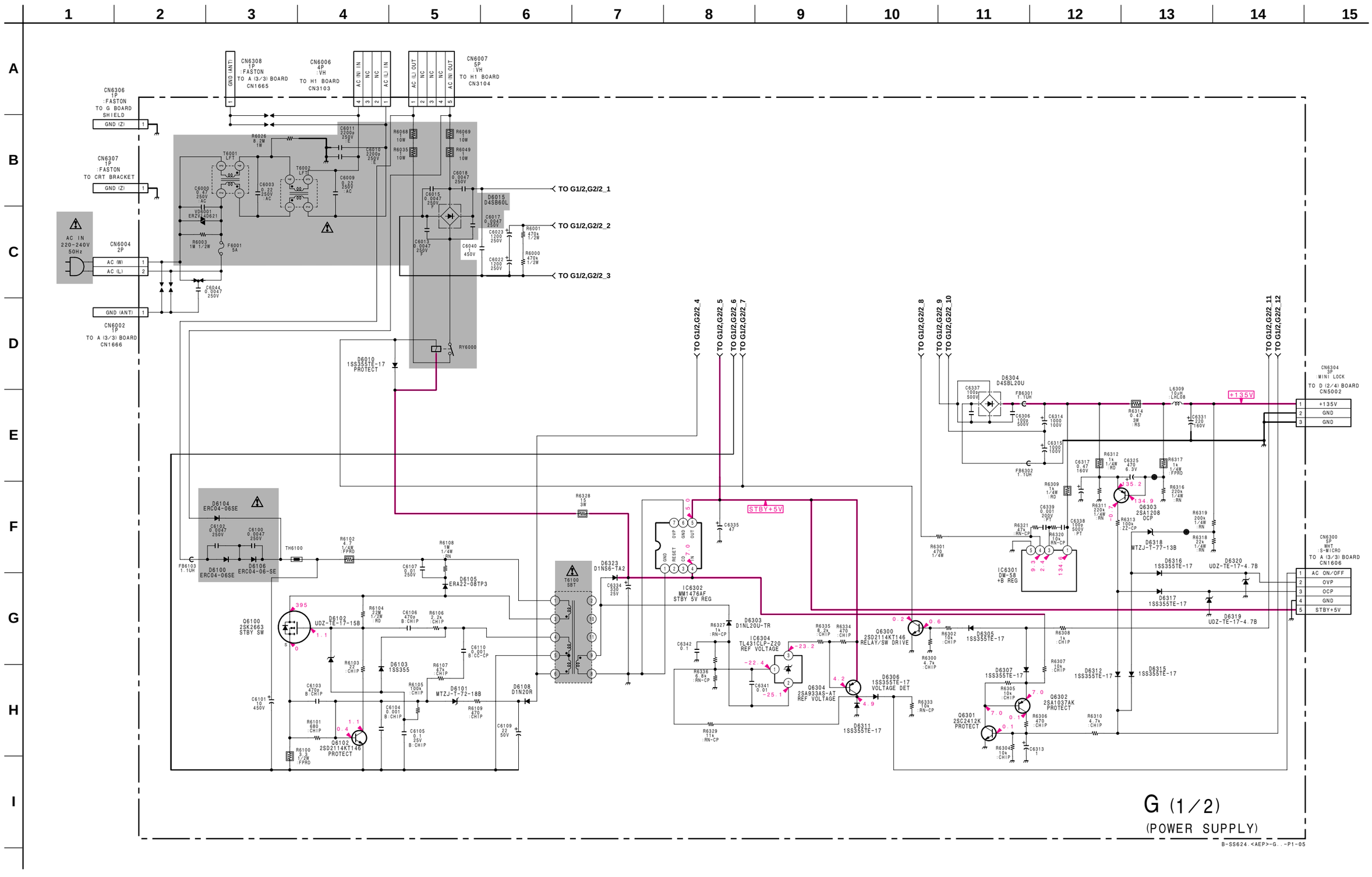


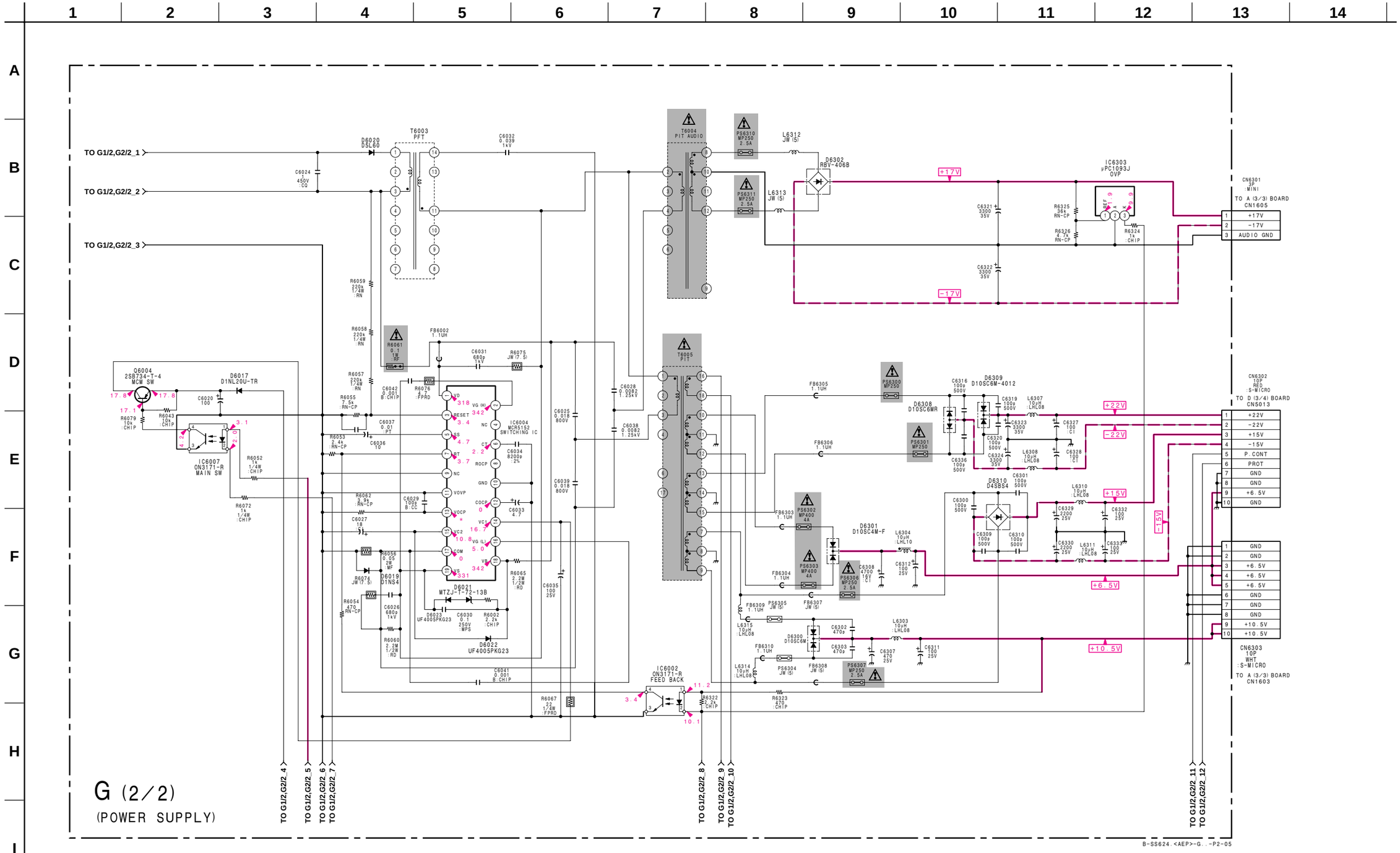
(19) Schematic Diagram of DS Board



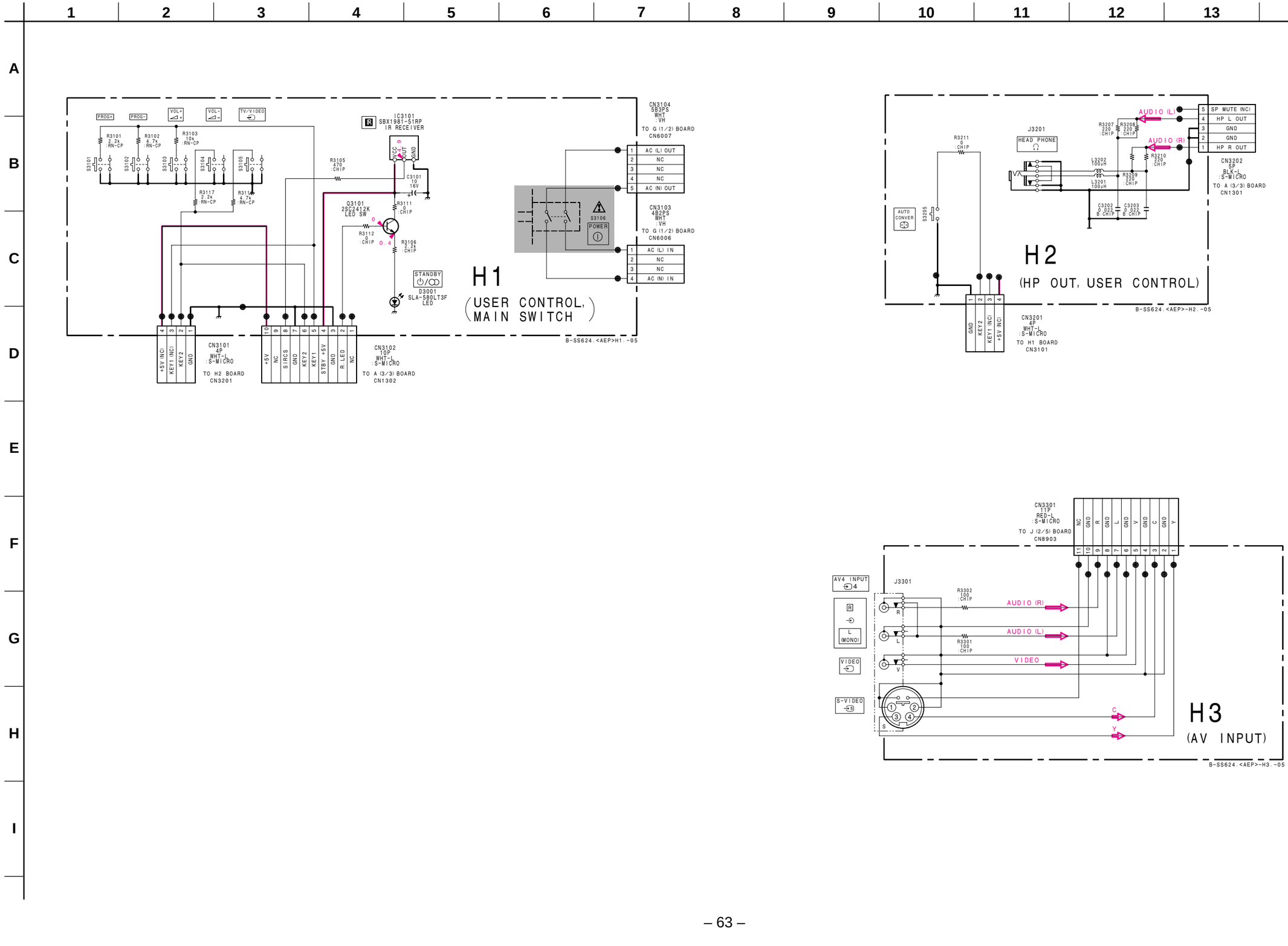
(20) Schematic Diagram of E Board

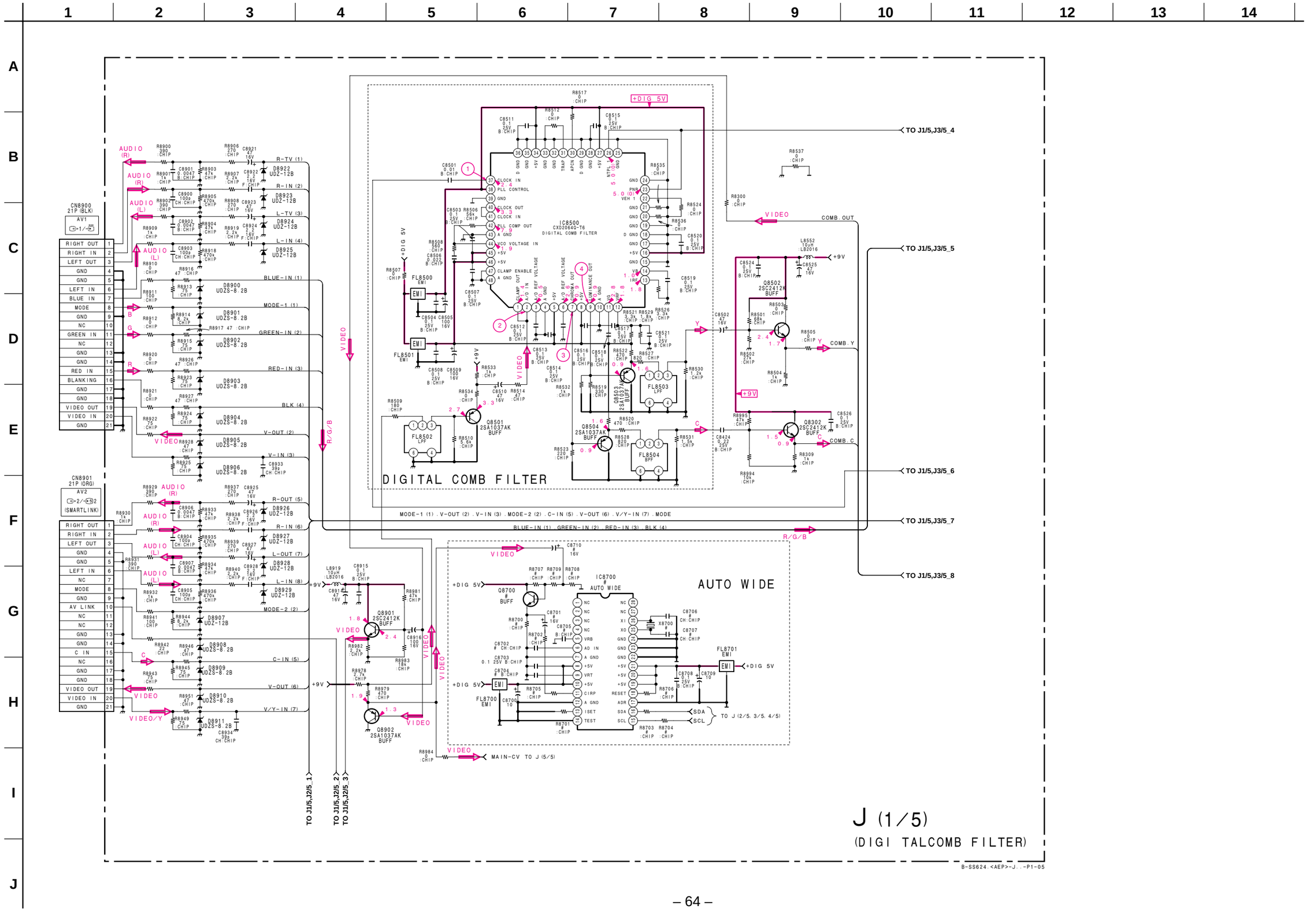


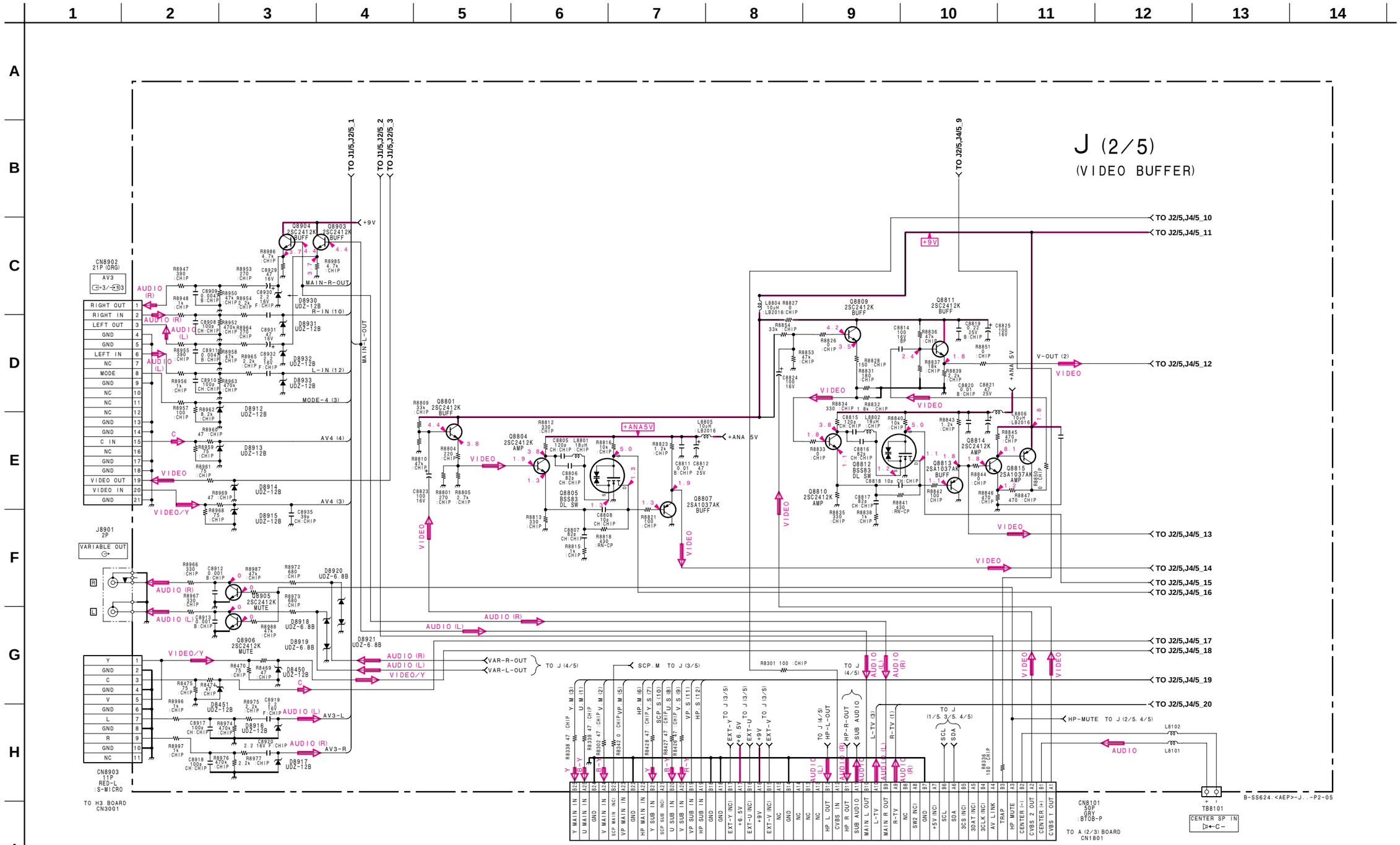

CN6308 1P :FASTON TO A (3/3) BOARD CN1665
CN6006 4P :VH TO H1 BOARD CN3103
CN6007 5P :VH TO H1 BOARD CN3104
CN6306 1P :FASTON TO G BOARD SHIELD
CN6307 1P :FASTON TO CRT BRACKET
CN6004 2P
AC IN 220-240V 50Hz
CN6002 1P TO A (3/3) BOARD CN1666
TO G1/2,G2/2_1
TO G1/2,G2/2_2
TO G1/2,G2/2_3
TO G1/2,G2/2_4
TO G1/2,G2/2_5
TO G1/2,G2/2_6
TO G1/2,G2/2_7
TO G1/2,G2/2_8
TO G1/2,G2/2_9
TO G1/2,G2/2_10
TO G1/2,G2/2_11
TO G1/2,G2/2_12
D6015 D4SB60L
RY6000
D6010 1SS355TE-17 PROTECT
D6304 D4SBL20U
+135V
STBY+5V
CN6304 3P :MINI LOCK TO D (2/4) BOARD CN5002
CN6300 5P :S-MICRO TO A (3/3) BOARD CN1606
AC ON/OFF
OVP
OCP
GND
STBY+5V
D6104 ERC04-06SE
D6100 ERC04-06SE
D6106 ERC04-06-SE
D6102 UDZ-TE-17-15B
D6103 1SS355
D6101 MTZJ-T-72-18B
D6108 D1N20R
D6105 ERA22-08TP3
D6107 1SS355TE-17 VOLTAGE DET
D6323 D1NS6-TA2
D6303 D1NL20U-TR
D6305 1SS355TE-17
D6307 1SS355TE-17
D6312 1SS355TE-17
D6315 1SS355TE-17
D6316 1SS355TE-17
D6317 1SS355TE-17
D6318 MTZJ-T-77-13B
D6319 UDZ-TE-17-4.7B
D6320 UDZ-TE-17-4.7B
D6311 1SS355TE-17
Q6100 2SK2663 STBY SW
Q6102 2SD2114KT146 PROTECT
Q6300 2SD2114KT146 RELAY/SW DRIVE
Q6304 2SA933AS-AT REF VOLTAGE
Q6301 2SC2412K PROTECT
Q6302 2SA1037AK PROTECT
Q6303 2SA1208 OCP
IC6301 DM-58 +B REG
IC6302 MM1476AF STBY 5V REG
IC6304 TL431CLP-Z20 REF VOLTAGE
T6001 LFT
T6002 LFT
T6100 SBT
F6001 5A
F6103 1.1UH
FB6301 1.1UH
FB6302 1.1UH
TH6100
L6309 10uH :LHL08
G (1/2)
(POWER SUPPLY)
B-SS624.<AEP>-G. .-P1-05

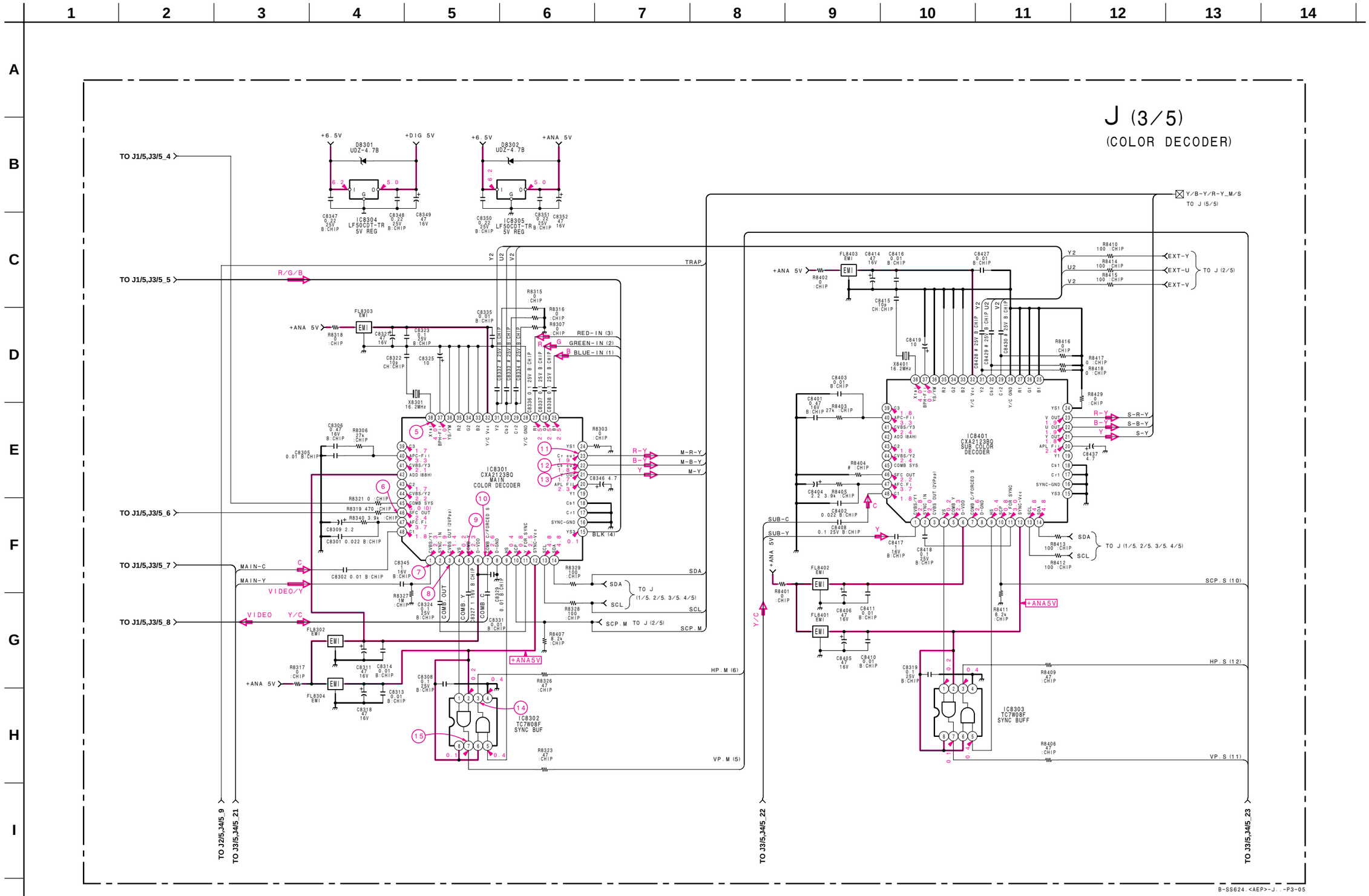

1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I
TO G1/2,G2/2_1
TO G1/2,G2/2_2
TO G1/2,G2/2_3
D6020 D5L60
T6003 PFT
C6032 0.039 1kV
C6024 1 450V :CQ
T6004 PIT AUDIO
PS6310 MP250 2.5A
PS6311 MP250 2.5A
L6312 JW (5)
L6313 JW (5)
D6302 RBV-406B
+17V
-17V
IC6303 μPC1093J OVP
C6321 3300 35V
C6322 3300 35V
R6325 36k RN-CP
R6326 4.7k RN-CP
R6324 1k :CHIP
CN6301 3P :MINI
TO A (3/3) BOARD CN1605
1 +17V
2 -17V
3 AUDIO GND
R6059 220k 1/4W :RN
R6058 220k 1/4W :RN
R6057 220k 1/4W :RN
R6055 7.5k :RN-CP
R6053 2.4k RN-CP
R6062 3.9k :RN-CP
R6056 0.05 2W MF
R6054 470 RN-CP
R6060 2.2M 1/2W :RD
R6061 0.1 1W RF
FB6002 1.1UH
C6031 680p 1kV
R6075 JW (7.5)
R6076 4.7 :FPRD
C6042 0.001 B:CHIP
C6037 0.01 :PT
C6036 10
C6029 100p B:CC
C6027 18
R6074 JW (7.5)
D6019 D1NS4
C6026 680p 1kV
D6023 UF4005PKG23
C6030 0.1 250V :MPS
R6002 2.2k :CHIP
D6022 UF4005PKG23
C6041 0.001 B:CHIP
R6067 22 1/4W :FPRD
Q6004 2SB734-T-4 MCM SW
17.8
17.1
D6017 D1NL20U-TR
C6020 100
R6079 10k :CHIP
R6043 10k :CHIP
3.1
IC6007 ON3171-R MAIN SW
R6052 1k 1/4W :CHIP
R6072 1k 1/4W :CHIP
T6005 PIT
C6028 0.0082 1.25kV
C6038 0.0082 1.25kV
C6025 0.018 800V
C6039 0.018 800V
C6035 100 25V
C6033 4.7
C6034 8200p 2%
IC6004 MCR5152 SWITCHING IC
VD
VG (H)
RESET
NC
SS
CT
RT
ROCP
NC
GND
COCP
VOVP
VCT
VOCP
VG (L)
VC2
VB
COM
VS
318
342
3.4
4.7
2.2
3.7
0
*
16.7
10.8
5.0
342
331
R6065 2.2M 1/2W :RD
IC6002 ON3171-R FEED BACK
3.4
11.2
10.1
R6322 2.2k :CHIP
R6323 470 :CHIP
FB6305 1.1UH
FB6306 1.1UH
FB6303 1.1UH
FB6304 1.1UH
FB6309 1.1UH
FB6310 1.1UH
PS6300 MP250
PS6301 MP250
PS6302 MP400 4A
PS6303 MP400 4A
PS6306 MP250 2.5A
PS6307 MP250 2.5A
PS6305 JW (5)
PS6304 JW (5)
FB6307 JW (5)
FB6308 JW (5)
D6308 D10SC6MR
D6309 D10SC6M-4012
D6310 D4SBS4
D6301 D10SC4M-F
D6300 D10SC6M
C6316 100p 500V
C6319 100p 500V
C6323 3300 35V
C6320 100p 1.0kV
C6324 3300 35V
C6336 100p 500V
C6327 100 :CI
C6328 100 :CI
L6307 10uH :LHC08
L6308 10uH :LHC08
C6301 100p 500V
C6300 100p 500V
C6309 100p 500V
C6310 100p 500V
C6329 2200 25V
C6330 2200 25V
C6332 100 25V
C6333 100 25V
L6310 10uH :LHL08
L6311 10uH :LHC08
L6304 10uH :LHL10
C6308 4700 16V :CI
C6312 100 25V
L6303 10uH :LHL08
C6302 470p
C6303 470p
C6307 470 25V
C6311 100 25V
L6315 10uH :LHL08
L6314 10uH :LHL08
+22V
-22V
+15V
-15V
+6.5V
+10.5V
CN6302 10P RED :S-MICRO
TO D (3/4) BOARD CN5013
1 +22V
2 -22V
3 +15V
4 -15V
5 P.CONT
6 PROT
7 GND
8 GND
9 +6.5V
10 GND
CN6303 10P WHT :S-MICRO
TO A (3/3) BOARD CN1603
1 GND
2 GND
3 +6.5V
4 +6.5V
5 +6.5V
6 GND
7 GND
8 GND
9 +10.5V
10 +10.5V
TO G1/2,G2/2_4
TO G1/2,G2/2_5
TO G1/2,G2/2_6
TO G1/2,G2/2_7
TO G1/2,G2/2_8
TO G1/2,G2/2_9
TO G1/2,G2/2_10
TO G1/2,G2/2_11
TO G1/2,G2/2_12
G (2/2)
(POWER SUPPLY)
B-SS624-<AEP>-G--P2-05

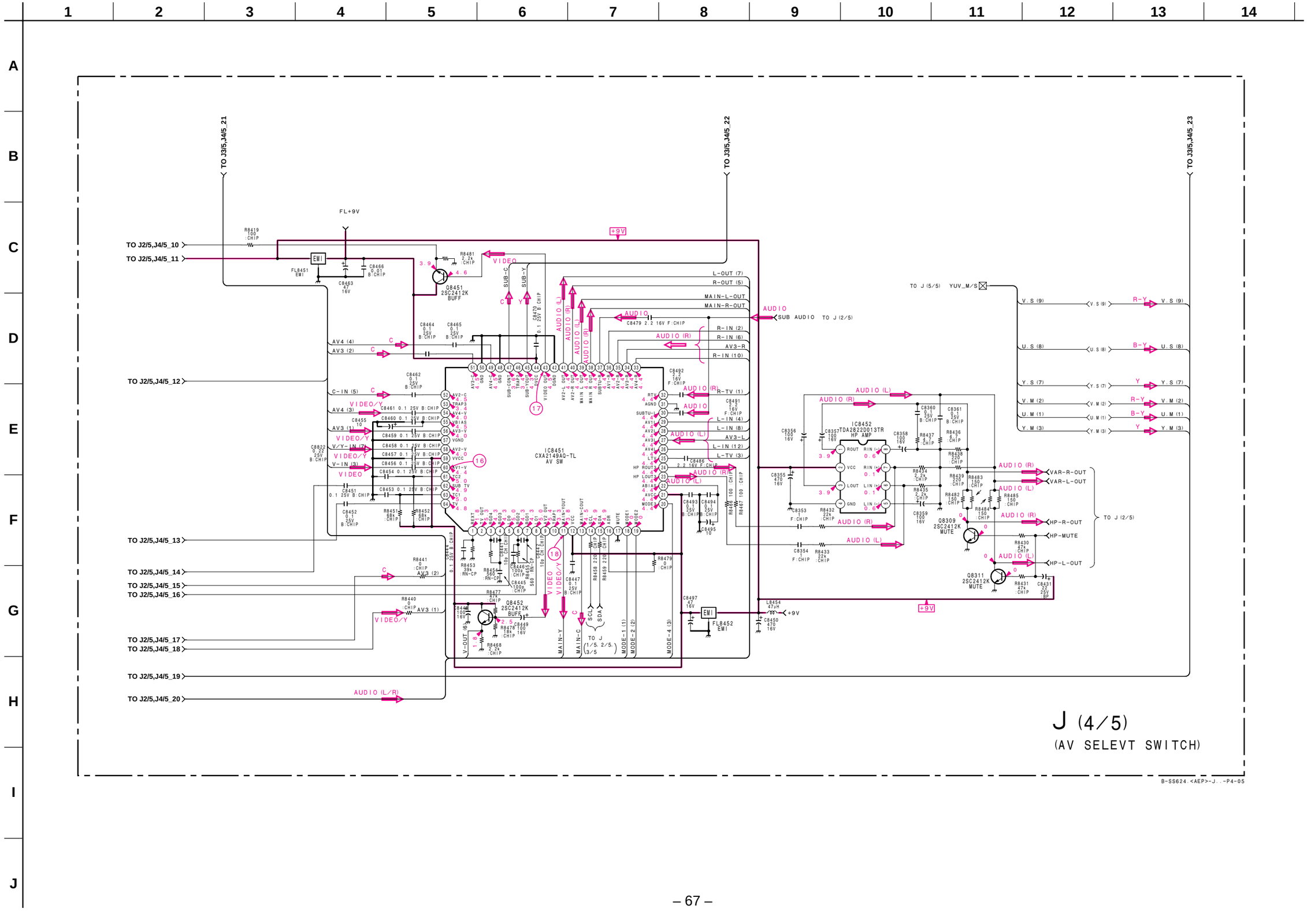
(23) Schematic Diagrams of H1, H2 and H3 Boards

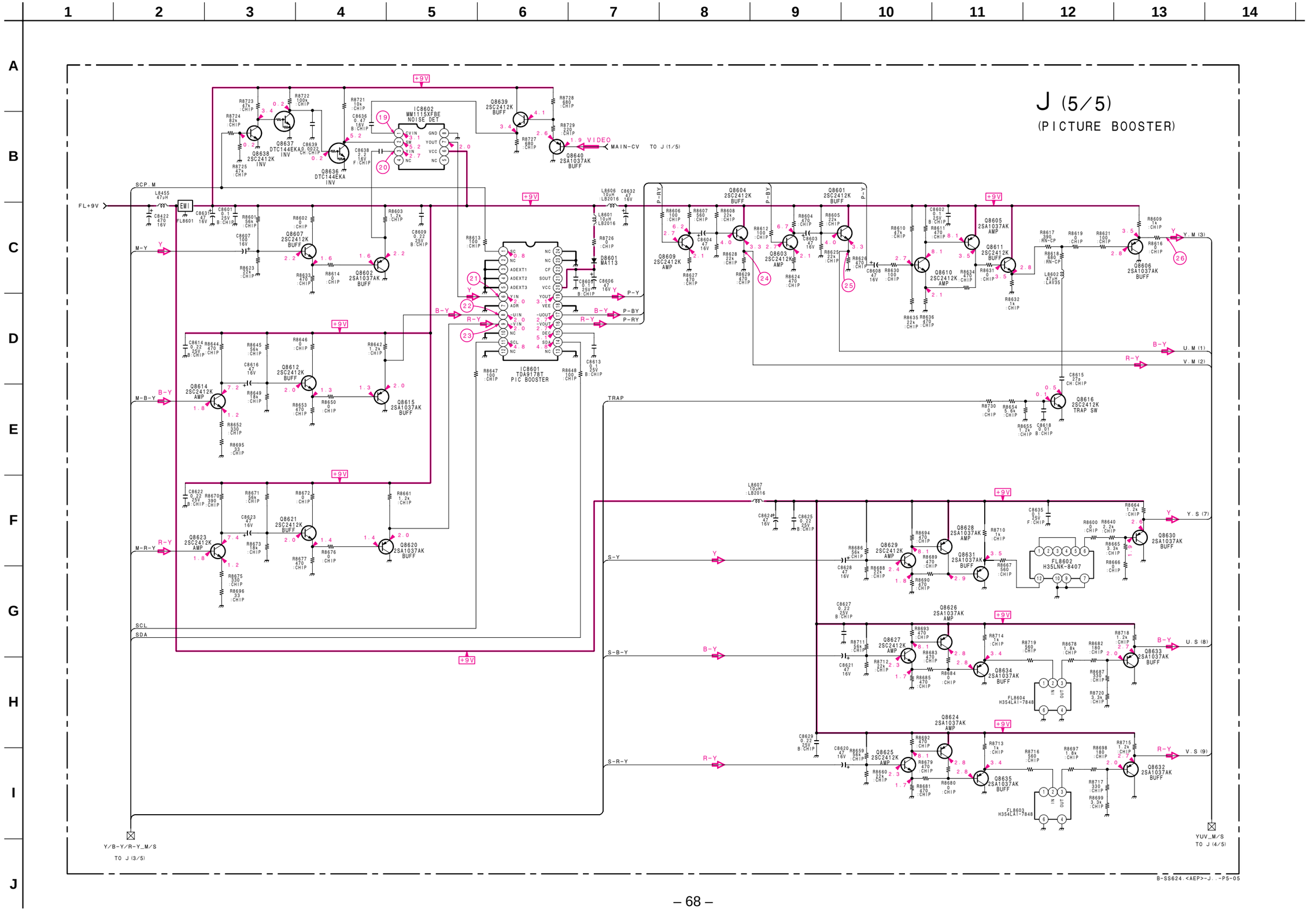


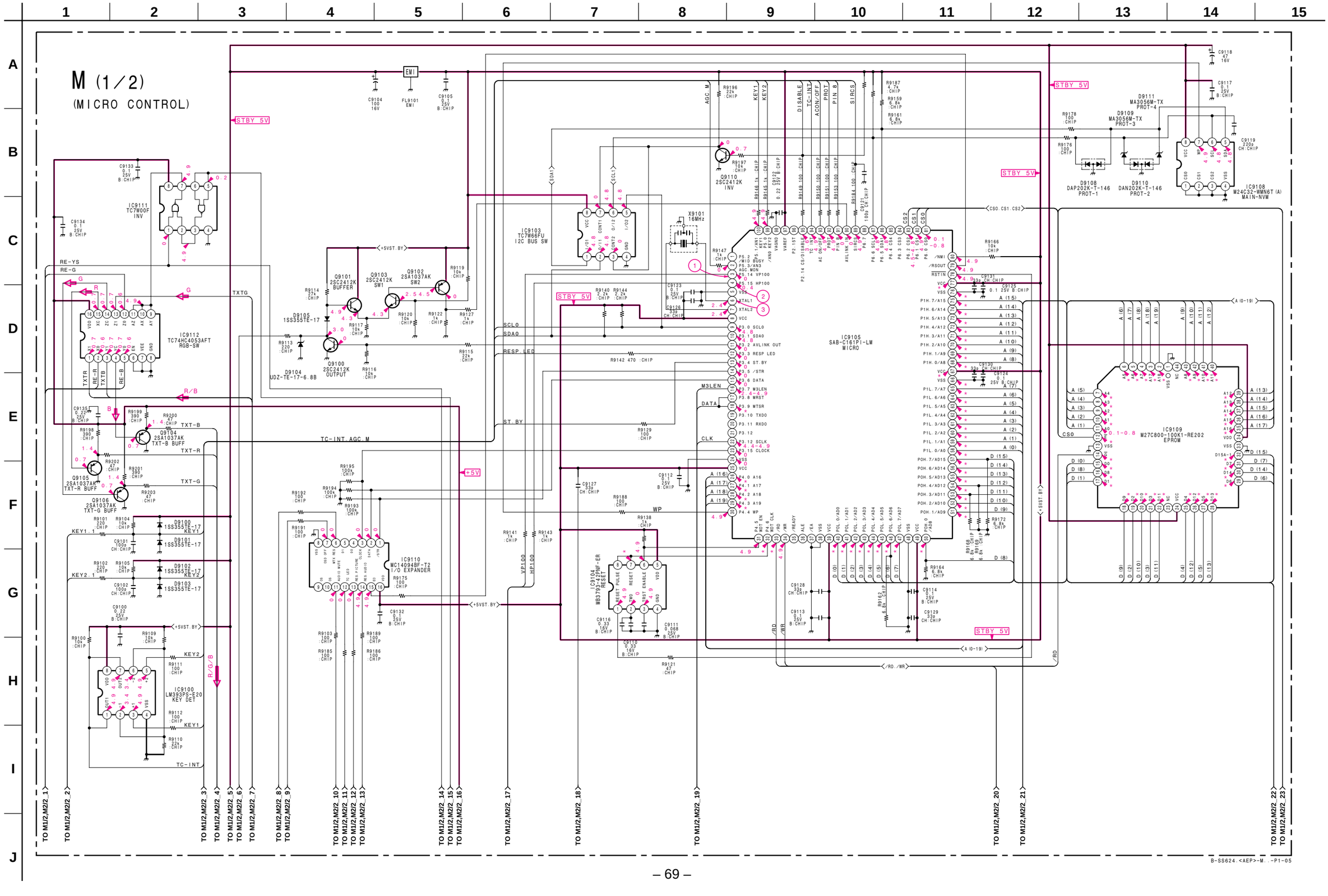

DIGITAL COMB FILTER
AUTO WIDE
J (1/5)
(DIGI TALCOMB FILTER)
B-SS624.<AEP>-J.-P1-05
IC8500 CXD2064Q-T6 DIGITAL COMB FILTER
IC8700 AUTO WIDE
CN8900 21P (BLK) AV1
CN8901 21P (ORG) AV2 (SMARTLINK)
RIGHT OUT
RIGHT IN
LEFT OUT
LEFT IN
BLUE IN
MODE
GREEN IN
RED IN
BLANKING
VIDEO OUT
VIDEO IN
AV LINK
C IN
AUDIO (R)
AUDIO (L)
VIDEO
VIDEO/Y
R/G/B
+DIG 5V
+9V
R-TV (1)
R-IN (2)
L-TV (3)
L-IN (4)
BLUE-IN (1)
MODE-1 (1)
GREEN-IN (2)
RED-IN (3)
BLK (4)
V-OUT (2)
V-IN (3)
R-OUT (5)
R-IN (6)
L-OUT (7)
L-IN (8)
MODE-2 (2)
C-IN (5)
V-OUT (6)
V/Y-IN (7)
TO J1/5,J3/5_4
TO J1/5,J3/5_5
TO J1/5,J3/5_6
TO J1/5,J3/5_7
TO J1/5,J3/5_8
TO J1/5,J2/5_1
TO J1/5,J2/5_2
TO J1/5,J2/5_3
MODE-1 (1) , V-OUT (2) , V-IN (3) , MODE-2 (2) , C-IN (5) , V-OUT (6) , V/Y-IN (7) , MODE
BLUE-IN (1) , GREEN-IN (2) , RED-IN (3) , BLK (4)
MAIN-CV TO J (5/5)
TO J (2/5, 3/5, 4/5)
SDA
SCL
COMB. OUT
COMB. Y
COMB. C

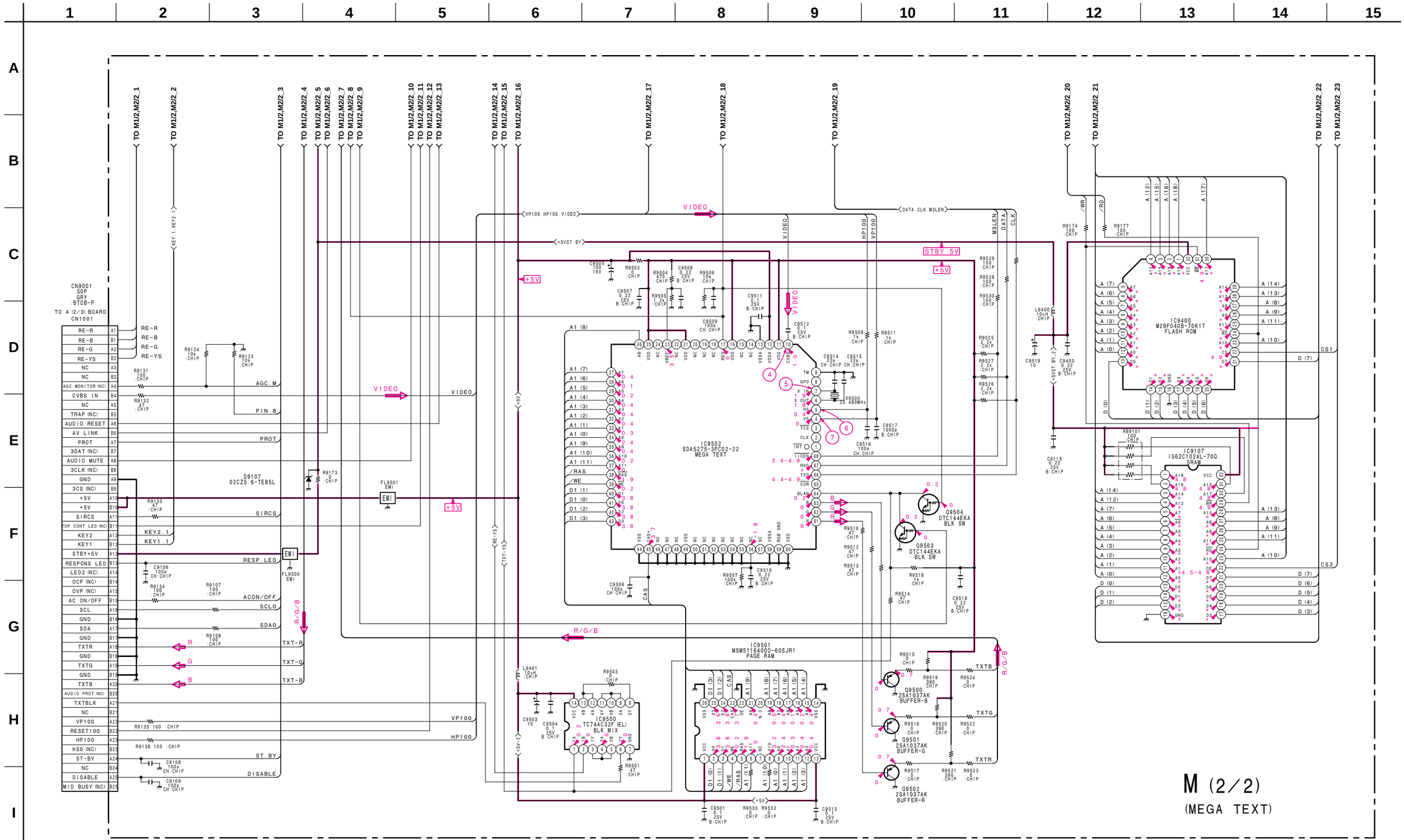

J (2/5)
(VIDEO BUFFER)
TO J1/5,J2/5_1
TO J1/5,J2/5_2
TO J1/5,J2/5_3
TO J2/5,J4/5_9
TO J2/5,J4/5_10
TO J2/5,J4/5_11
TO J2/5,J4/5_12
TO J2/5,J4/5_13
TO J2/5,J4/5_14
TO J2/5,J4/5_15
TO J2/5,J4/5_16
TO J2/5,J4/5_17
TO J2/5,J4/5_18
TO J2/5,J4/5_19
TO J2/5,J4/5_20
CN8902 21P (ORG) AV3
RIGHT OUT
RIGHT IN
LEFT OUT
LEFT IN
MODE
VIDEO OUT
VIDEO IN
MAIN-R-OUT
MAIN-L-OUT
R-IN (10)
L-IN (12)
MODE-4 (3)
AV4 (4)
AV4 (3)
VIDEO/Y
J8901 2P VARIABLE OUT
AV3-L
AV3-R
CN8903 11P RED-L :S-MICRO
TO H3 BOARD CN3001
+9V
+ANA 5V
+ANA5V
VIDEO
AUDIO (R)
AUDIO (L)
VAR-R-OUT
VAR-L-OUT
TO J (4/5)
SCP. M TO J (3/5)
V-OUT (2)
HP-MUTE TO J (2/5, 4/5)
AUDIO
L8102
L8101
TB8101
CENTER SP IN
B-SS624.<AEP>-J..-P2-05
CN8101 50P GRY :BTOB-P
TO A (2/3) BOARD CN1801

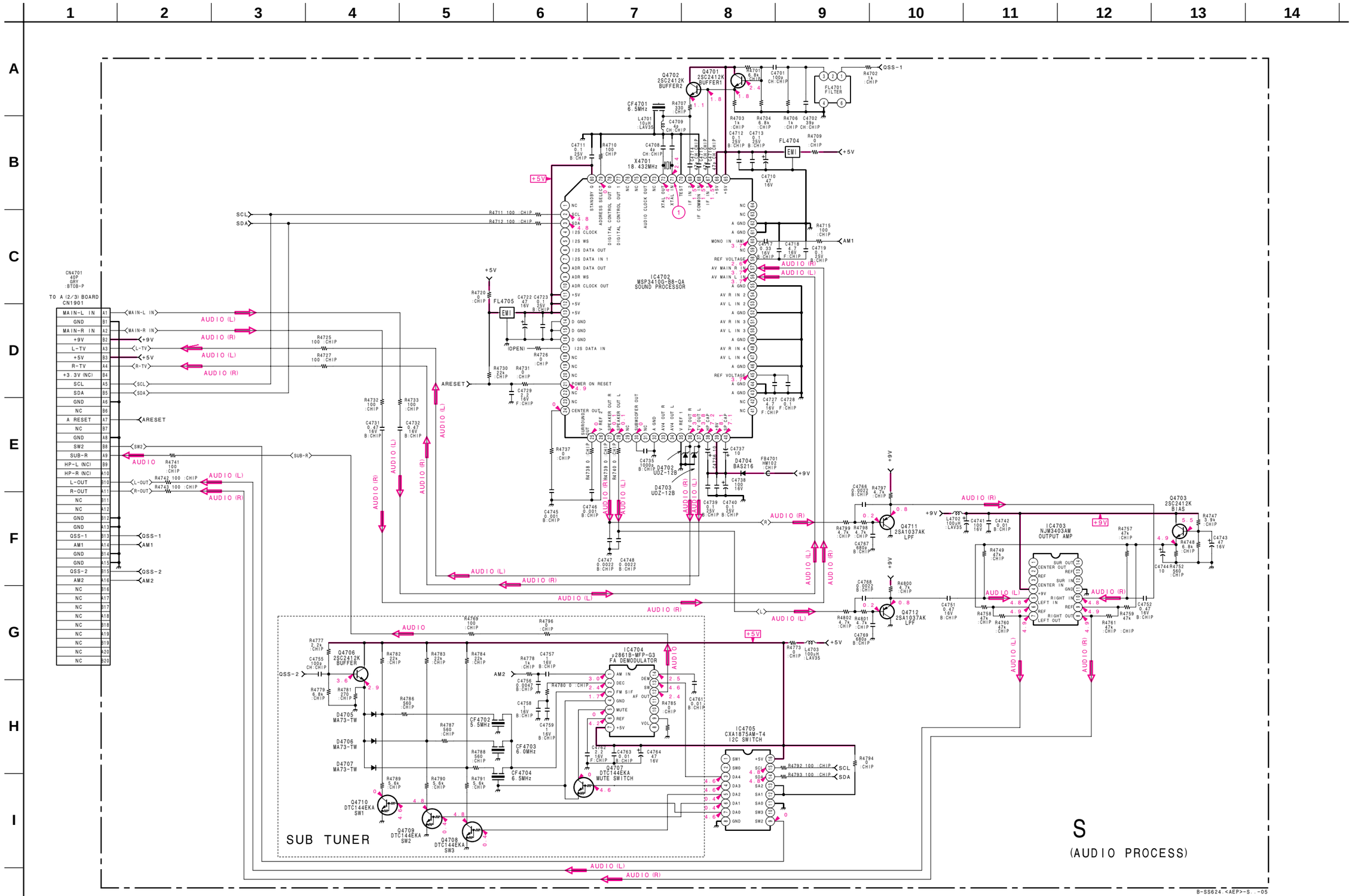

J (3/5)
(COLOR DECODER)
TO J1/5,J3/5_4
TO J1/5,J3/5_5
TO J1/5,J3/5_6
TO J1/5,J3/5_7
TO J1/5,J3/5_8
TO J2/5,J4/5_9
TO J3/5,J4/5_21
TO J3/5,J4/5_22
TO J3/5,J4/5_23
D8301 UDZ-4.7B
D8302 UDZ-4.7B
+6.5V
+DIG 5V
+ANA 5V
IC8304 LF50CDT-TR 5V REG
IC8305 LF50CDT-TR 5V REG
IC8301 CXA2123BQ MAIN COLOR DECODER
IC8401 CXA2123BQ SUB COLOR DECODER
IC8302 TC7W08F SYNC BUF
IC8303 TC7W08F SYNC BUFF
R/G/B
RED-IN (3)
GREEN-IN (2)
BLUE-IN (1)
TRAP
MAIN-C
MAIN-Y
VIDEO/Y
VIDEO
Y/C
COMB OUT
COMB Y
COMB C
BLK (4)
SDA
SCL
SCP.M
HP.M (6)
VP.M (5)
M-R-Y
M-B-Y
M-Y
R-Y
B-Y
Y
SUB-C
SUB-Y
+ANA5V
SCP.S (10)
HP.S (12)
VP.S (11)
S-R-Y
S-B-Y
S-Y
EXT-Y
EXT-U
EXT-V
Y/B-Y/R-Y_M/S
TO J (5/5)
TO J (2/5)
TO J (1/5, 2/5, 3/5, 4/5)
X8301 16.2MHz
X8401 16.2MHz
B-SS624.<AEP>-J.-P3-05

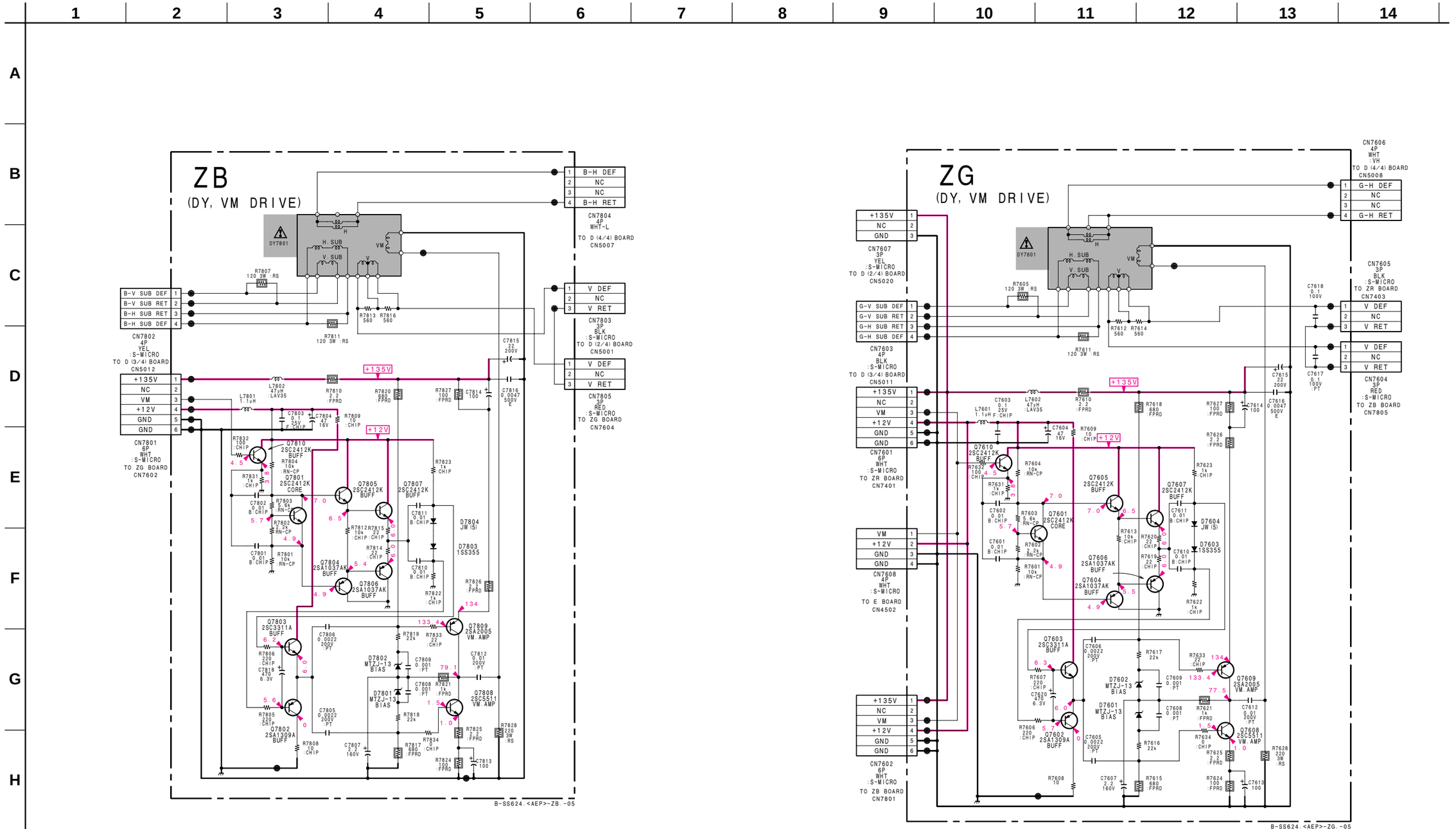

TO J3/5,J4/5_21
TO J3/5,J4/5_22
TO J3/5,J4/5_23
TO J2/5,J4/5_10
TO J2/5,J4/5_11
TO J2/5,J4/5_12
TO J2/5,J4/5_13
TO J2/5,J4/5_14
TO J2/5,J4/5_15
TO J2/5,J4/5_16
TO J2/5,J4/5_17
TO J2/5,J4/5_18
TO J2/5,J4/5_19
TO J2/5,J4/5_20
FL+9V
+9V
VIDEO
AUDIO
SUB AUDIO TO J (2/5)
IC8451
CXA2149AQ-TL
AV SW
IC8452
TDA2822D013TR
HP AMP
Q8451
2SC2412K
BUFF
Q8452
2SC2412K
BUF5
Q8309
2SC2412K
MUTE
Q8311
2SC2412K
MUTE
FL8451
EMI
FL8452
EMI
TO J (5/5) YUV_M/S
TO J (2/5)
VAR-R-OUT
VAR-L-OUT
HP-R-OUT
HP-MUTE
HP-L-OUT
J (4/5)
(AV SELEVT SWITCH)
B-SS624..<AEP>-J..-P4-05


J (5/5)
(PICTURE BOOSTER)
+9V
IC8602 MM1115XFBE NOISE DET
IC8601 TDA9178T PIC BOOSTER
Q8637 DTC144EKA INV
Q8638 2SC2412K INV
Q8636 DTC144EKA INV
Q8639 2SC2412K BUFF
Q8640 2SA1037AK BUFF
MAIN-CV
TO J (1/5)
VIDEO
SCP.M
FL+9V
EMI
FL8601
L8455 47uH
L8606 10uH LB2016
L8601 10uH LB2016
L8607 10uH LB2016
D8601 MA113
Q8607 2SC2412K BUFF
Q8602 2SA1037AK BUFF
Q8604 2SC2412K BUFF
Q8601 2SC2412K BUFF
Q8609 2SC2412K AMP
Q8603 2SC2412K AMP
Q8605 2SA1037AK AMP
Q8610 2SC2412K AMP
Q8611 2SC2412K BUFF
Q8606 2SA1037AK BUFF
Q8612 2SC2412K BUFF
Q8614 2SC2412K AMP
Q8615 2SA1037AK BUFF
Q8621 2SC2412K BUFF
Q8623 2SC2412K AMP
Q8620 2SA1037AK BUFF
TRAP
Q8616 2SC2412K TRAP SW
Q8628 2SA1037AK AMP
Q8629 2SC2412K AMP
Q8631 2SA1037AK BUFF
Q8630 2SA1037AK BUFF
FL8602 H35LNK-8407
Q8626 2SA1037AK AMP
Q8627 2SC2412K AMP
Q8634 2SA1037AK BUFF
Q8633 2SA1037AK BUFF
FL8604 H354LAI-7848
Q8624 2SA1037AK AMP
Q8625 2SC2412K AMP
Q8635 2SA1037AK BUFF
Q8632 2SA1037AK BUFF
FL8603 H354LAI-7848
Y/B-Y/R-Y_M/S
TO J (3/5)
YUV_M/S
TO J (4/5)
Y.M (3)
U.M (1)
V.M (2)
Y.S (7)
U.S (8)
V.S (9)
SCL
SDA
B-SS624.<AEP>-J..-P5-05


M (1/2)
(MICRO CONTROL)
STBY 5V
+5VST.BY
+5V
IC9111 TC7W00F INV
IC9112 TC74HC4053AFT RGB-SW
IC9103 TC7W66FU I2C BUS SW
IC9105 SAB-C161P-LM MICRO
IC9108 M24C32-WMN6T (A) MAIN-NVM
IC9109 M27C800-100K1-RE202 EPROM
IC9110 MC14094BF-T2 I/O EXPANDER
IC9100 LM393PS-E20 KEY DET
IC9104 MB3793-42PNF-ER RESET
X9101 16MHz
Q9101 2SC2412K BUFFER
Q9103 2SC2412K SW1
Q9102 2SA1037AK SW2
Q9100 2SC2412K OUTPUT
Q9110 2SC2412K INV
Q9104 2SA1037AK TXT-B BUFF
Q9105 2SA1037AK TXT-R BUFF
Q9106 2SA1037AK TXT-G BUFF
D9104 UDZ-TE-17-6.8B
D9105 1SS355TE-17
D9100 1SS355TE-17 KEY1
D9101 1SS355TE-17
D9102 1SS355TE-17 KEY2
D9103 1SS355TE-17
D9108 DAP202K-T-146 PROT-1
D9110 DAN202K-T-146 PROT-2
D9109 MA3056M-TX PROT-3
D9111 MA3056M-TX PROT-4
EMI
FL9101 EMI
SCL0
SDA0
RESP LED
ST BY
M3LEN
DATA
CLK
WP
TXTG
TXT-R
TXT-G
TXT-B
R/G/B
TC-INT
TC-INT AGC M
KEY1
KEY2
RE-YS
RE-G
RE-R
RE-B
TXTR
TXTB
AGC M
KEY1
KEY2
DISABLE
TC-INT
ACON/OFF
PROT
PIN 8
SIRCS
CSO. CS1. CS2
A (0-19)
D (15)
/RD
/WR
/RD. /WR
VP100
HP100
TO M1/2,M2/2_1
TO M1/2,M2/2_2
TO M1/2,M2/2_3
TO M1/2,M2/2_4
TO M1/2,M2/2_5
TO M1/2,M2/2_6
TO M1/2,M2/2_7
TO M1/2,M2/2_8
TO M1/2,M2/2_9
TO M1/2,M2/2_10
TO M1/2,M2/2_11
TO M1/2,M2/2_12
TO M1/2,M2/2_13
TO M1/2,M2/2_14
TO M1/2,M2/2_15
TO M1/2,M2/2_16
TO M1/2,M2/2_17
TO M1/2,M2/2_18
TO M1/2,M2/2_19
TO M1/2,M2/2_20
TO M1/2,M2/2_21
TO M1/2,M2/2_22
TO M1/2,M2/2_23
B-SS624.<AEP>-M..-P1-05

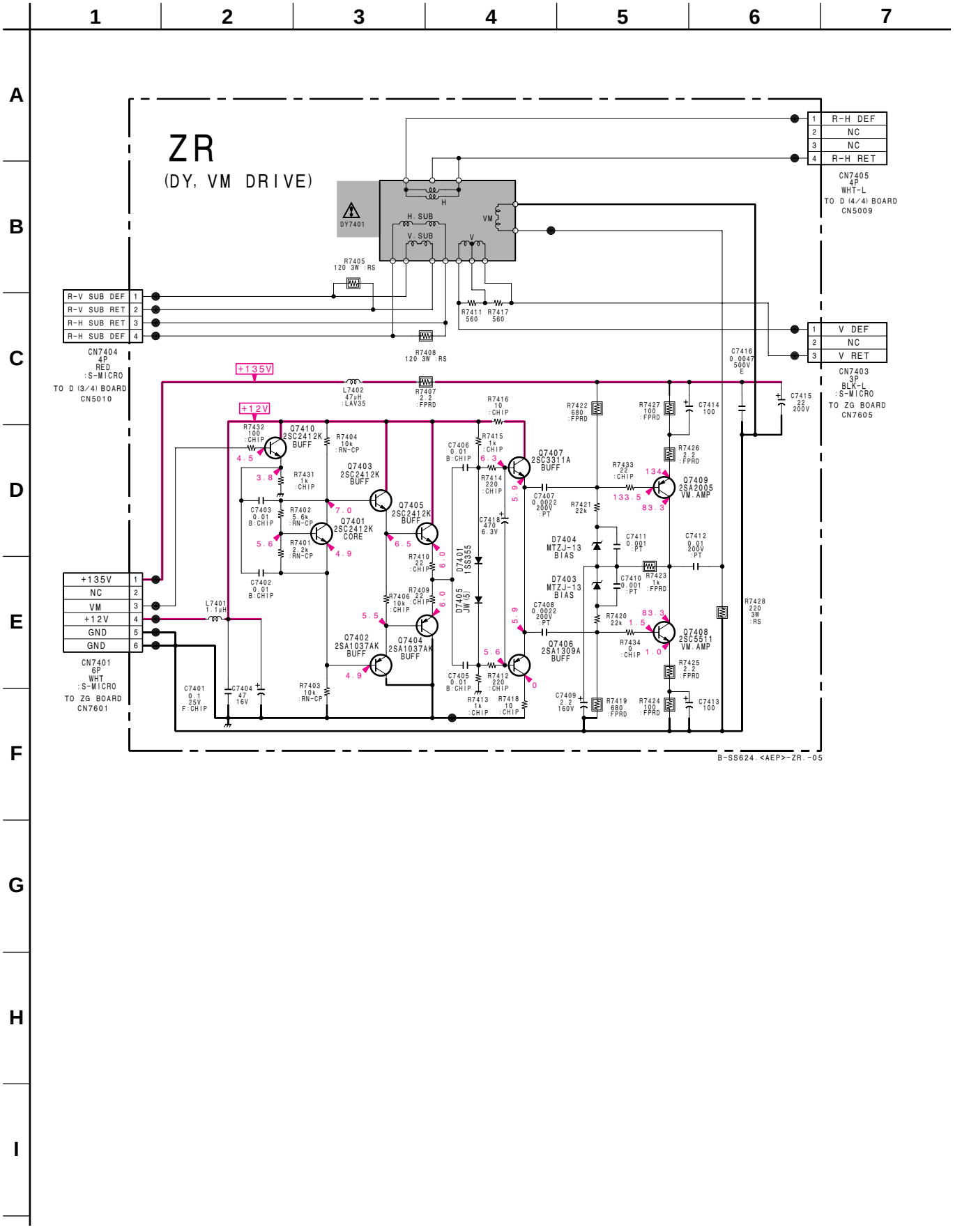

CN9001
50P
GRY
:BTOB-P
TO A (2/3) BOARD
CN1001
RE-R
RE-B
RE-G
RE-YS
NC
NC
AGC MONITOR (NC)
CVBS IN
NC
TRAP (NC)
AUDIO RESET
AV LINK
PROT
3DAT (NC)
AUDIO MUTE
3CLK (NC)
GND
3CS (NC)
+5V
+5V
SIRCS
TOP CONT LED (NC)
KEY2
KEY1
STBY+5V
RESPONS LED
LED2 (NC)
OCP (NC)
OVP (NC)
AC ON/OFF
SCL
GND
SDA
GND
TXTR
GND
TXTG
GND
TXTB
AUDIO PROT (NC)
TXTBLK
NC
VP100
RESET100
HP100
HSO (NC)
ST-BY
NC
DISABLE
MID BUSY (NC)
TO M1/2,M2/2_1
TO M1/2,M2/2_2
TO M1/2,M2/2_3
TO M1/2,M2/2_4
TO M1/2,M2/2_5
TO M1/2,M2/2_6
TO M1/2,M2/2_7
TO M1/2,M2/2_8
TO M1/2,M2/2_9
TO M1/2,M2/2_10
TO M1/2,M2/2_11
TO M1/2,M2/2_12
TO M1/2,M2/2_13
TO M1/2,M2/2_14
TO M1/2,M2/2_15
TO M1/2,M2/2_16
TO M1/2,M2/2_17
TO M1/2,M2/2_18
TO M1/2,M2/2_19
TO M1/2,M2/2_20
TO M1/2,M2/2_21
TO M1/2,M2/2_22
TO M1/2,M2/2_23
KEY 1, KEY2 1
VP100.HP100.VIDEO
DATA.CLK.M3LEN
+5VST.BY
STBY 5V
+5V
VIDEO
M3LEN
DATA
CLK
HP100
VP100
RE-YS
TXT-YS
R/G/B
/WR
/RD
CS1
CS2
D (7)
A (14)
A (13)
A (8)
A (9)
A (11)
A (10)
D (0)
D (1)
D (2)
D (3)
D (4)
D (5)
D (6)
IC9400
M29F040B-70K1T
FLASH ROM
IC9107
IS62C1024L-70Q
SRAM
IC9502
SDA5275-3PC02-22
MEGA TEXT
IC9501
MSM51164OD-60SJR1
PAGE RAM
IC9500
TC74AC32F (EL)
BLK MIX
X9500
20.480MHz
Q9500
2SA1037AK
BUFFER-B
Q9501
2SA1037AK
BUFFER-G
Q9502
2SA1037AK
BUFFER-R
Q9503
DTC144EKA
BLK SW
Q9504
DTC144EKA
BLK SW
D9107
02CZ5.6-TE85L
FL9501
EMI
FL9500
EMI
AGC.M
PIN 8
PROT
SIRCS
KEY2.1
KEY1.1
RESP.LED
ACON/OFF
SCLO
SDAO
TXT-R
TXT-G
TXT-B
ST.BY
DISABLE
M (2/2)
(MEGA TEXT)
B-SS624.<AEP>-M..-P2-05

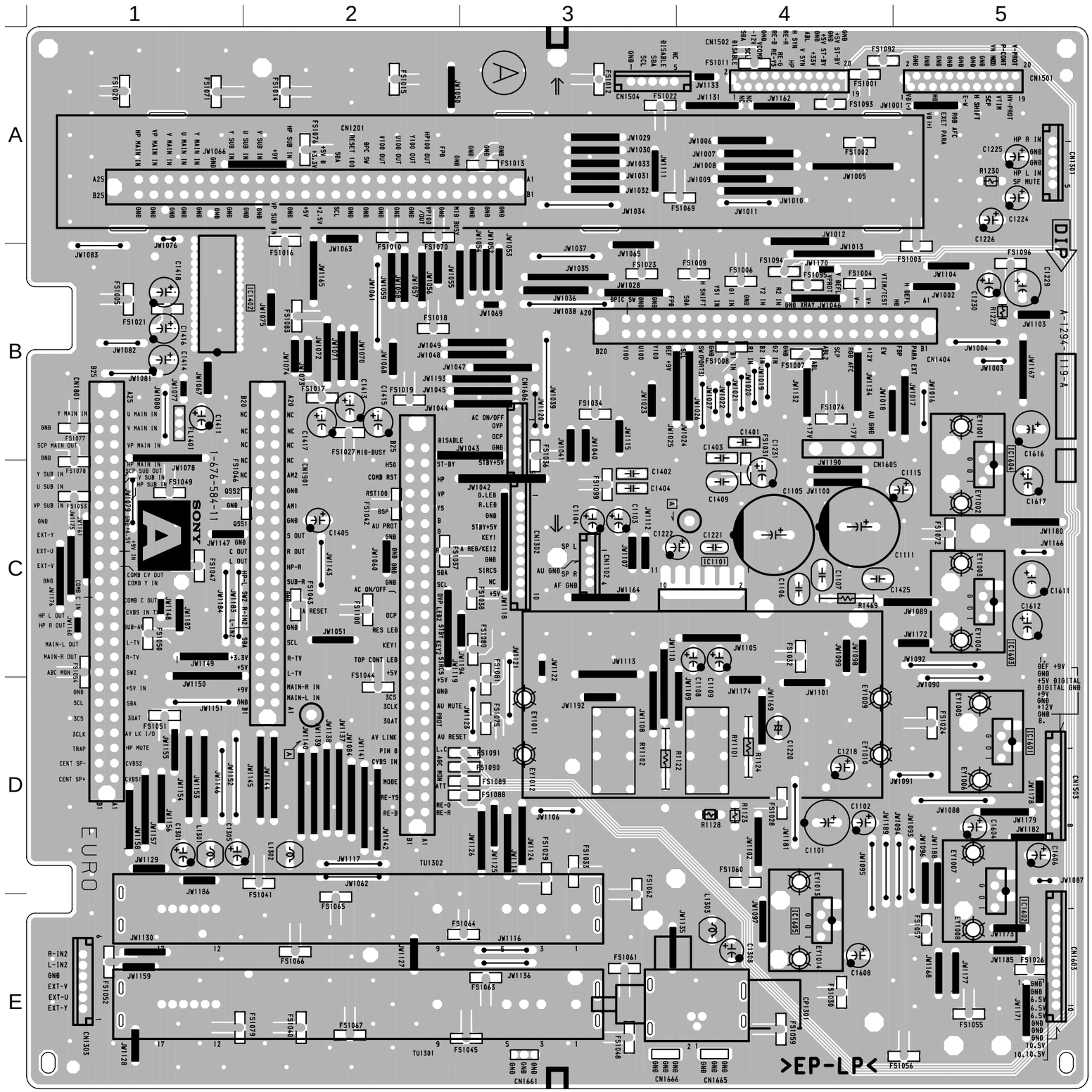

CN4701 40P GRY :BT08-P
TO A (2/3) BOARD CN1901
MAIN-L IN A1
GND B1
MAIN-R IN A2
+9V B2
L-TV A3
+5V B3
R-TV A4
+3.3V (NC) B4
SCL A5
SDA B5
GND A6
A RESET A7
NC B7
GND A8
SW2 B8
SUB-R A9
HP-L (NC) B9
HP-R (NC) B10
L-OUT A10
R-OUT A11
NC B11
NC A12
GND B12
GND A13
QSS-1 B13
AM1 A14
GND B14
GND A15
QSS-2 B15
AM2 A16
NC B16
NC A17
NC B17
NC A18
NC B18
NC A19
NC B19
NC A20
NC B20
IC4702 MSP3410G-B8-QA SOUND PROCESSOR
IC4704 μ2861B-MFP-G3 FA DEMODULATOR
IC4705 CXA1875AM-T4 I2C SWITCH
IC4703 NJM3403AM OUTPUT AMP
Q4702 2SC2412K BUFFER2
Q4701 2SC2412K BUFFER1
Q4703 2SC2412K BIAS
Q4706 2SC2412K BUFFER
Q4711 2SA1037AK LPF
Q4712 2SA1037AK LPF
Q4707 DTC144EKA MUTE SWITCH
Q4710 DTC144EKA SW1
Q4709 DTC144EKA SW2
Q4708 DTC144EKA SW3
D4702 UDZ-12B
D4703 UDZ-12B
D4704 BAS216
D4705 MA73-TW
D4706 MA73-TW
D4707 MA73-TW
FL4701 FILTER
FL4704 EMI
FL4705 EMI
X4701 18.432MHz
CF4701 6.5MHz
CF4702 5.5MHz
CF4703 6.0MHz
CF4704 6.5MHz
L4701 10μH :LAV3S
L4702 100μH :LAV3S
L4703 100μH :LAV3S
SUB TUNER
S
(AUDIO PROCESS)
B-SS624 <AEP>-S...-05


ZB
(DY, VM DRIVE)
B-H DEF
NC
NC
B-H RET
CN7804 4P WHT-L TO D (4/4) BOARD CN5007
V DEF
NC
V RET
CN7803 3P BLK :S-MICRO TO D (2/4) BOARD CN5001
V DEF
NC
V RET
CN7805 3P RED :S-MICRO TO ZG BOARD CN7604
B-V SUB DEF
B-V SUB RET
B-H SUB RET
B-H SUB DEF
CN7802 4P YEL :S-MICRO TO D (3/4) BOARD CN5012
+135V
NC
VM
+12V
GND
GND
CN7801 6P WHT :S-MICRO TO ZG BOARD CN7602
DY7801
H
H SUB
V SUB
V
VM
R7807 120 3W :RS
R7811 120 3W :RS
R7813 560
R7816 560
C7815 22 200V
+135V
L7802 47uH :LAV35
L7801 1.1uH
R7810 2.2 :FPRD
R7820 680 :FPRD
R7827 100 :FPRD
C7814 100
C7816 0.0047 500V E
C7803 0.1 25V F:CHIP
C7804 47 16V
R7809 10 :CHIP
+12V
R7832 100 :CHIP
Q7810 2SC2412K BUFF
R7804 10k :RN-CP
R7831 1k :CHIP
Q7801 2SC2412K CORE
Q7805 2SC2412K BUFF
Q7807 2SC2412K BUFF
R7823 1k :CHIP
C7802 0.01 B:CHIP
R7803 5.6k :RN-CP
R7802 2.2k :RN-CP
C7801 0.01 B:CHIP
R7801 10k :RN-CP
R7812 10k :CHIP
R7815 22 :CHIP
C7811 0.01 B:CHIP
D7804 JW (5)
D7803 1SS355
R7814 22 :CHIP
C7810 0.01 B:CHIP
Q7804 2SA1037AK BUFF
Q7806 2SA1037AK BUFF
R7822 1k :CHIP
R7826 2.2 :FPRD
Q7803 2SC3311A BUFF
C7806 0.0022 200V :PT
R7819 22k
R7833 22 :CHIP
R7806 220 :CHIP
C7818 470 6.3V
D7802 MTZJ-13 BIAS
C7809 0.001 :PT
D7801 MTZJ-13 BIAS
C7808 0.001 :PT
R7821 1k :FPRD
Q7809 2SA2005 VM AMP
C7812 0.01 200V :PT
R7805 220 :CHIP
C7805 0.0022 200V :PT
R7818 22k
Q7808 2SC5511 VM AMP
Q7802 2SA1309A BUFF
R7808 10 :CHIP
C7807 2.2 160V
R7817 680 :FPRD
R7834 0 :CHIP
R7824 100 :FPRD
C7813 100
R7825 2.2 :FPRD
R7828 220 3W :RS
4.5
5.7
4.9
7.0
6.5
5.4
4.9
6.2
5.6
0
134
133.4
79.1
1.5
1.0
B-SS624.<AEP>-ZB.-05

ZG
(DY, VM DRIVE)
CN7606 4P WHT :VH TO D (4/4) BOARD CN5008
G-H DEF
NC
NC
G-H RET
CN7605 3P BLK :S-MICRO TO ZR BOARD CN7403
V DEF
NC
V RET
CN7604 3P RED :S-MICRO TO ZB BOARD CN7805
V DEF
NC
V RET
+135V
NC
GND
CN7607 3P YEL :S-MICRO TO D (2/4) BOARD CN5020
G-V SUB DEF
G-V SUB RET
G-H SUB RET
G-H SUB DEF
CN7603 4P BLK :S-MICRO TO D (3/4) BOARD CN5011
+135V
NC
VM
+12V
GND
GND
CN7601 6P WHT :S-MICRO TO ZR BOARD CN7401
VM
+12V
GND
GND
CN7608 4P WHT :S-MICRO TO E BOARD CN4502
+135V
NC
VM
+12V
GND
GND
CN7602 6P WHT :S-MICRO TO ZB BOARD CN7801
DY7601
H
H SUB
V SUB
V
VM
R7605 120 3W :RS
R7611 120 3W :RS
R7612 560
R7614 560
C7618 0.1 100V
C7617 0.1 100V :PT
C7615 22 200V
+135V
C7603 0.1 25V L7601 1.1uH F:CHIP
L7602 47uH :LAV35
R7610 2.2 :FPRD
R7618 680 :FPRD
R7627 100 :FPRD
C7614 100
C7616 0.0047 500V E
C7604 47 16V
R7609 10 :CHIP
+12V
R7626 2.2 :FPRD
Q7610 2SC2412K BUFF
R7632 100 :CHIP
R7604 10k :RN-CP
R7631 1k :CHIP
Q7605 2SC2412K BUFF
Q7607 2SC2412K BUFF
R7623 1k :CHIP
C7602 0.01 B:CHIP
R7603 5.6k :RN-CP
Q7601 2SC2412K CORE
R7613 10k :CHIP
D7604 JW (5)
C7601 0.01 B:CHIP
R7602 2.2k :RN-CP
R7620 22 :CHIP
D7603 1SS355
C7611 0.01 B:CHIP
C7610 0.01 B:CHIP
R7619 22 :CHIP
Q7606 2SA1037AK BUFF
Q7604 2SA1037AK BUFF
R7601 10k :RN-CP
R7622 1k :CHIP
Q7603 2SC3311A BUFF
C7606 0.0022 200V :PT
R7617 22k
R7633 22 :CHIP
R7607 220 :CHIP
C7620 470 6.3V
D7602 MTZJ-13 BIAS
C7609 0.001 :PT
D7601 MTZJ-13 BIAS
C7608 0.001 :PT
R7606 220 :CHIP
Q7602 2SA1309A BUFF
C7605 0.0022 200V :PT
R7621 1k :FPRD
C7612 0.01 200V :PT
R7634 0 :CHIP
R7616 22k
Q7608 2SC5511 VM AMP
R7625 2.2 :FPRD
R7608 10
R7615 680 :FPRD
R7624 100 :FPRD
C7613 100
R7628 220 3W :RS
7.0
6.5
5.7
4.9
6.3
6.0
5.7
0
134
133.4
77.5
1.5
1.0
B-SS624.<AEP>-ZG.-05

(33) Schematic Diagram of ZR Board



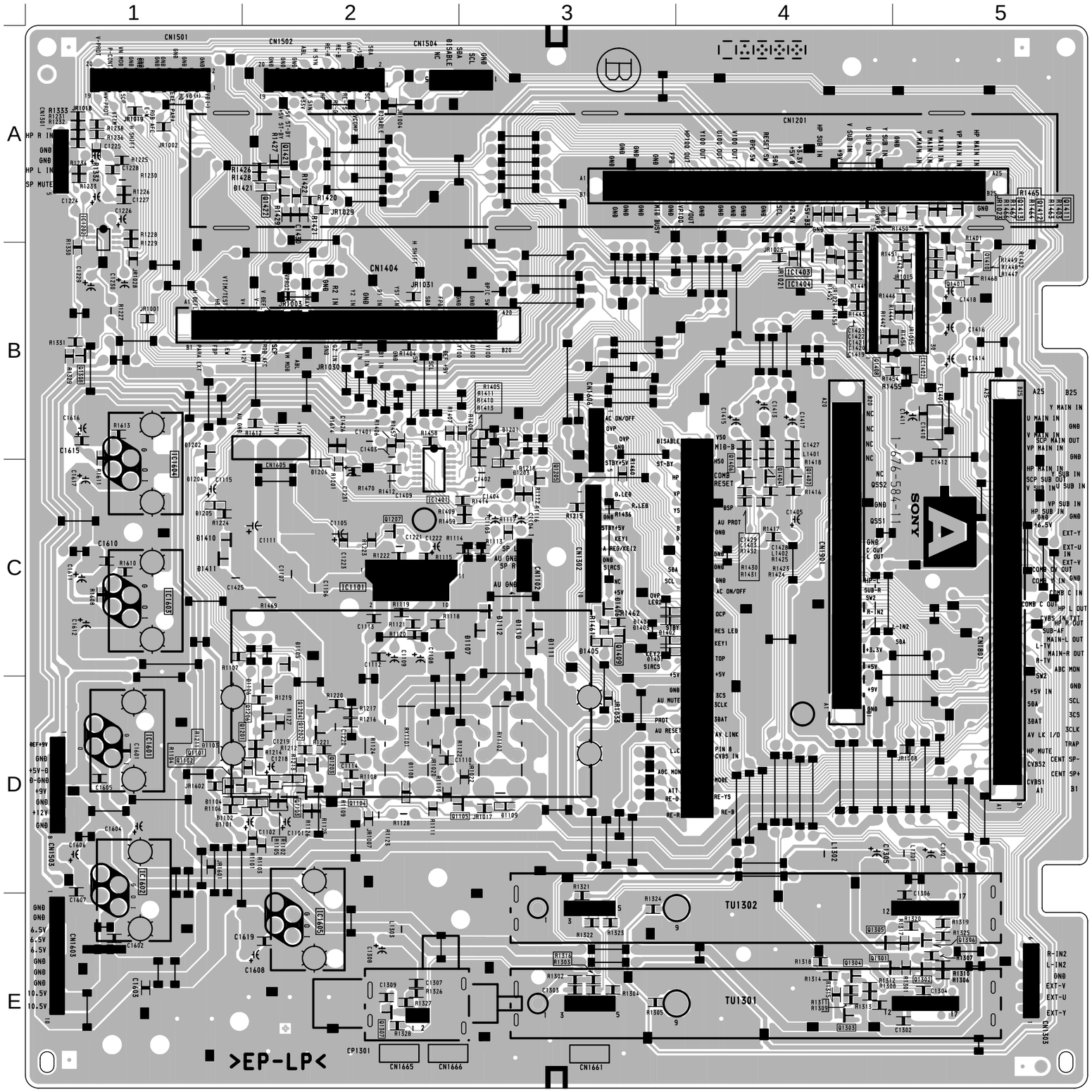


A AUDIO OUT, AUDIO PROTECT, TUNER

- **A BOARD SEMICONDUCTOR LOCATION (Component Side)**

IC	
IC1101	C-4
IC1402	B-1
IC1601	D-5
IC1602	E-5
IC1603	C-5
IC1604	C-5
IC1605	E-4

— A BOARD (Conductor Side) —



A [AUDIO OUT, AUDIO PROTECT, TUNER]

- **A BOARD SEMICONDUCTOR LOCATION (Conductor Side)**

IC		
IC1101	C-2	
IC1401	C-2	
IC1402	B-5	
IC1601	D-1	
IC1602	E-1	
IC1603	C-1	
IC1604	C-1	
IC1605	E-2	

TRANSISTOR		
		✱
Q1101	D-2	①
Q1102	D-2	①
Q1103	D-2	①
Q1104	D-2	①
Q1105	D-2	①
Q1201	D-2	①
Q1202	D-2	①
Q1203	D-2	①
Q1204	D-2	①
Q1205	C-3	①
Q1206	D-2	①
Q1207	C-2	①
Q1301	E-4	①
Q1302	E-5	①
Q1303	E-4	①
Q1304	E-4	①
Q1305	E-4	①
Q1306	E-5	①
Q1307	E-2	①
Q1308	B-1	①
Q1401	B-5	①
Q1402	C-4	①
Q1404	C-4	①
Q1406	C-4	①
Q1408	B-4	①
Q1409	C-3	①
Q1410	B-5	①
Q1411	A-5	①
Q1412	A-5	①
Q1413	A-4	①
Q1421	A-2	①
Q1422	A-2	①

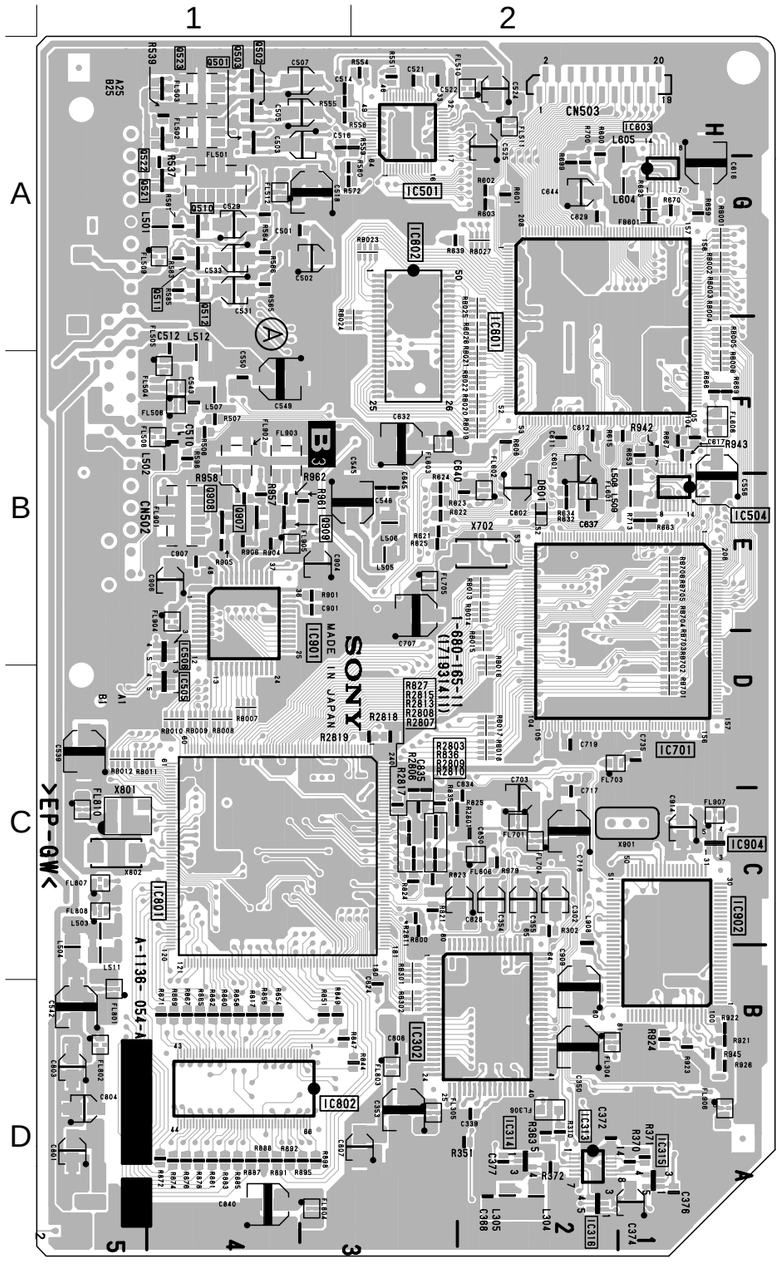
DIODE		
		✱
D1101	D-2	③
D1102	D-2	③
D1103	D-2	③
D1104	D-1	③
D1105	C-2	⑥
D1106	D-2	⑥
D1107	C-3	④
D1108	D-2	③
D1109	D-3	③
D1110	C-3	④
D1111	C-3	④
D1112	C-3	④
D1201	B-3	⑧
D1202	B-1	④
D1203	C-3	③
D1204	C-1	⑧
D1205	C-1	③
D1206	C-2	③
D1401	C-3	③
D1402	C-3	③
D1403	C-3	③
D1404	C-3	③
D1405	C-3	③
D1406	C-3	⑧
D1410	C-1	④
D1411	C-1	④
D1421	A-2	③

✱: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)

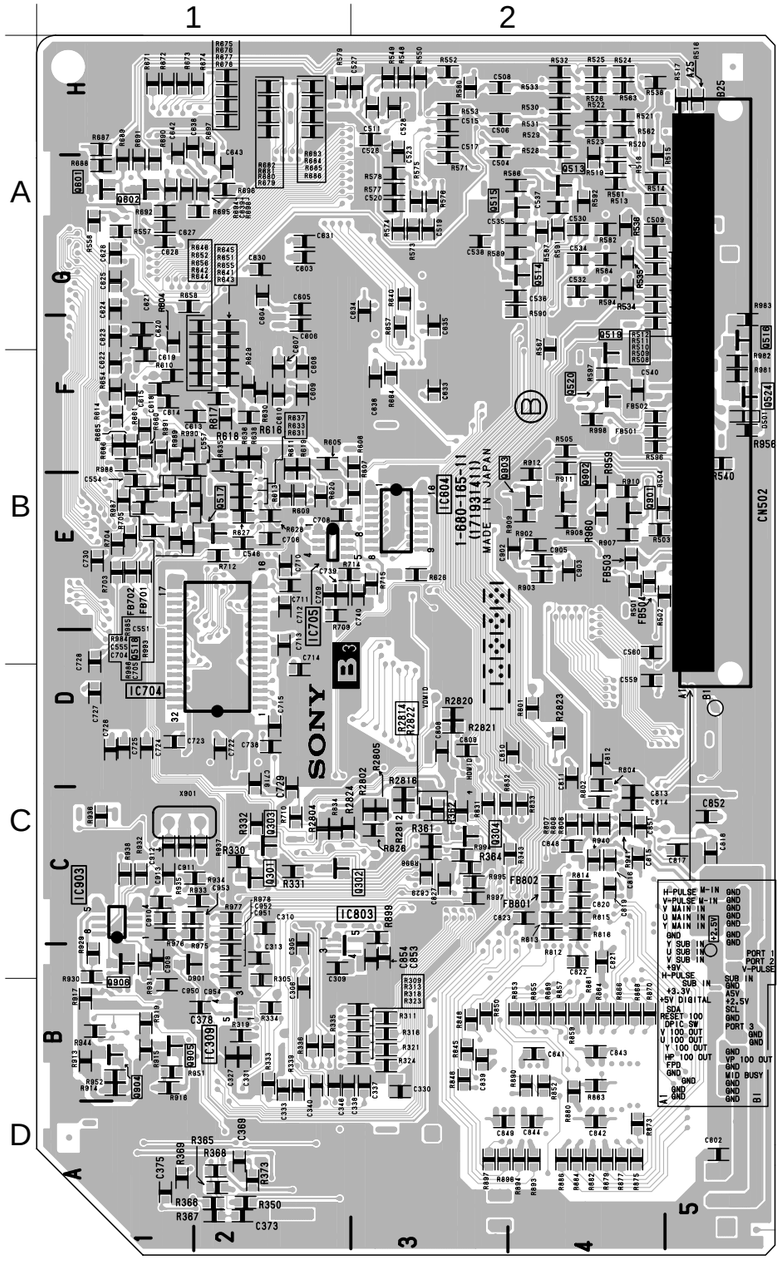
B3

DRC, MID-X, VIDEO PROCESS

— B3 BOARD (Component Side) —



— B3 BOARD (Conductor Side) —



• B3 BOARD SEMICONDUCTOR LOCATION

IC	(Component Side)	(Conductor Side)
IC313	D-2	
IC314	D-2	
IC315	D-2	
IC316	D-2	
IC501	A-2	
IC504	B-2	
IC505	C-1	
IC506	B-1	
IC601	A-2	
IC602	A-2	
IC603	A-2	
IC604		B-2
IC801	C-1	
IC802	D-1	
IC901	B-1	

TRANSISTOR	(Component Side)	(Conductor Side)	✱
Q304		C-2	①
Q501	A-1		②
Q502	A-1		②
Q503	A-1		②
Q510	A-1		②
Q511	A-1		②
Q512	A-1		②
Q513		A-2	①
Q514		A-2	①
Q515		A-2	①
Q516		A-2	①
Q517		B-1	①
Q518		B-1	①
Q519		B-2	①
Q521	A-1		②
Q522	A-1		②
Q523	A-1		②
Q524		B-2	①
Q601		A-1	①
Q602		A-1	①
Q901		B-2	①
Q902		B-2	①
Q903		B-2	①
Q904		D-1	⑯
Q905		D-1	⑯
Q907	B-1		②
Q908	B-1		②
Q909	B-1		②

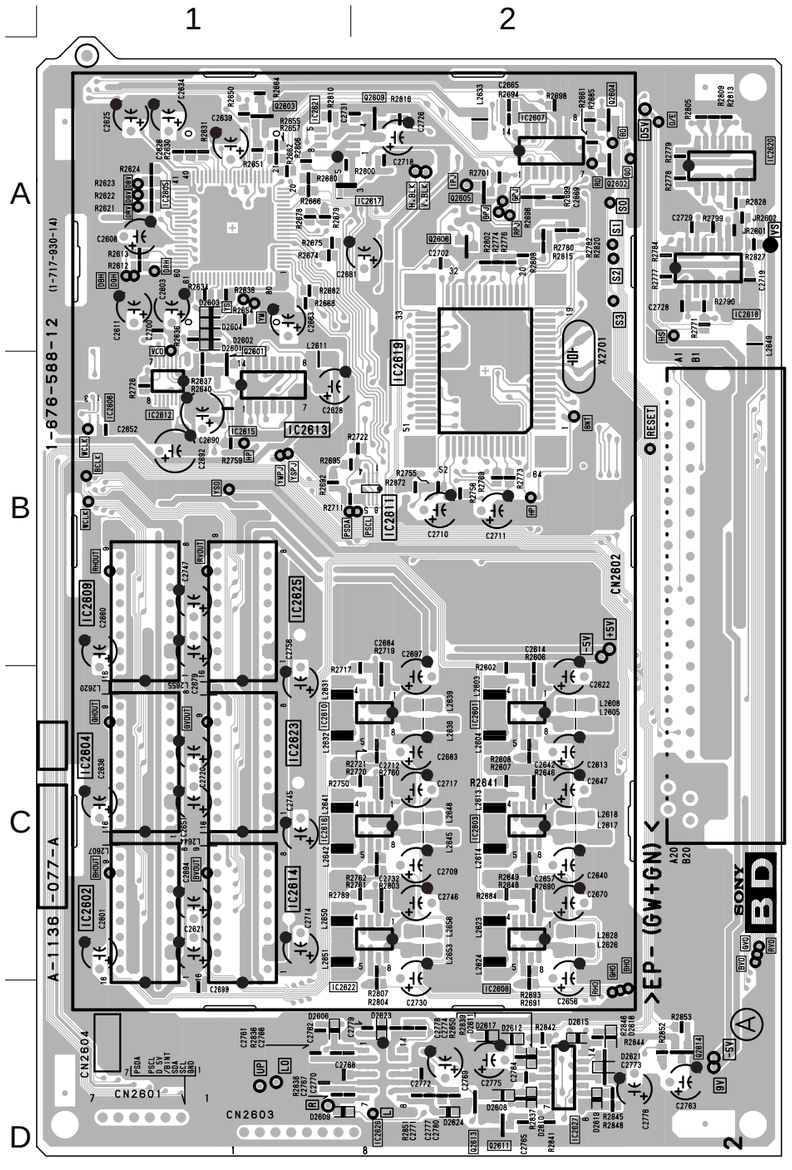
DIODE	(Component Side)	(Conductor Side)	✱
D501		B-2	③

CRYSTAL	(Component Side)	(Conductor Side)
X802	C-1	

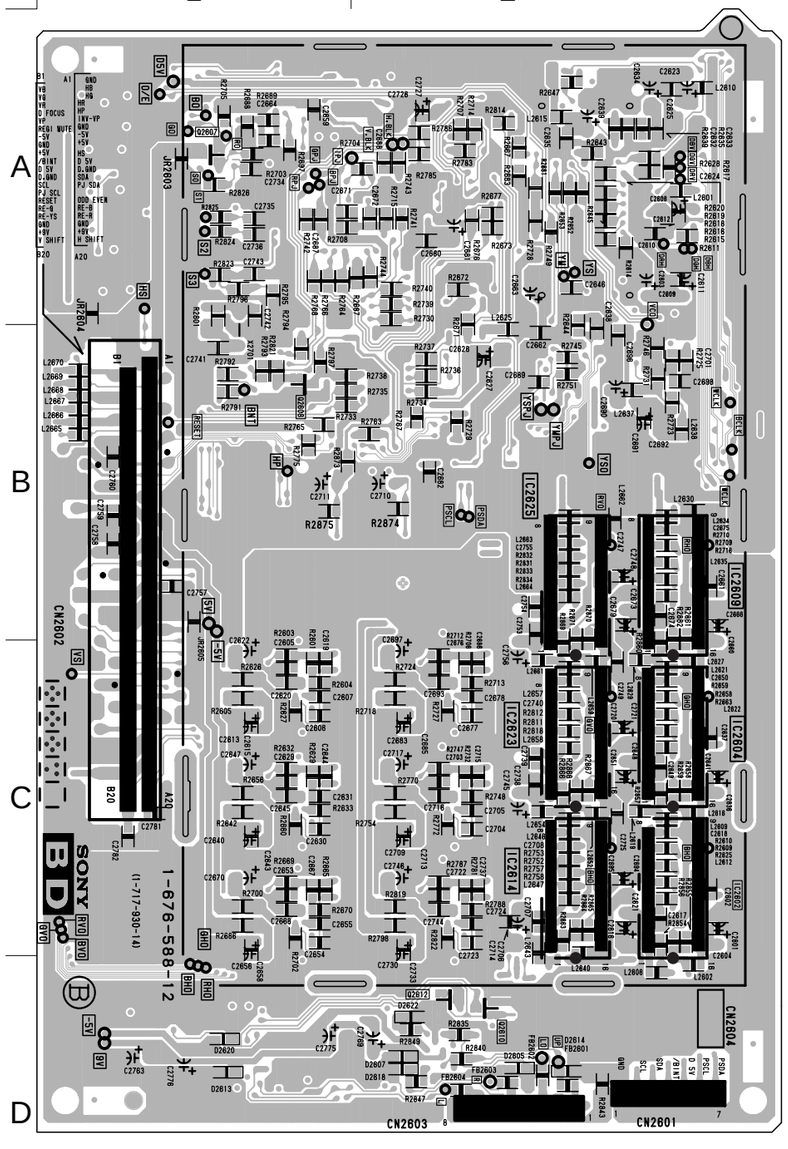
✱: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)

BD PJED, REGI CORRECTION

— BD BOARD (Component Side) —



— BD BOARD (Conductor Side) —



• BD BOARD SEMICONDUCTOR LOCATION

IC	(Component Side)	(Conductor Side)
IC2601	C-2	
IC2602	C-1	C-2
IC2603	C-2	
IC2604	C-1	C-2
IC2605	A-1	
IC2606	B-1	
IC2607	A-2	
IC2608	C-2	
IC2609	B-1	B-2
IC2610	C-2	
IC2611	B-2	
IC2612	B-1	
IC2613	B-1	
IC2614	C-1	C-2
IC2615	B-1	
IC2616	C-2	
IC2617	A-1	
IC2618	A-2	
IC2619	B-2	
IC2620	A-2	
IC2621	A-1	
IC2622	C-2	
IC2623	C-1	C-2
IC2625	B-1	B-2
IC2626	D-2	
IC2627	D-2	

TRANSISTOR	(Component Side)	(Conductor Side)	✱
Q2601	B-1		②
Q2602	A-2		②
Q2603	A-1		②
Q2604	A-2		②
Q2605	A-2		②
Q2606	A-2		②
Q2607		A-1	①
Q2608		B-1	①
Q2610		D-2	①
Q2611	D-2		②
Q2612		D-2	①
Q2613	D-2		②
Q2614	D-2		②

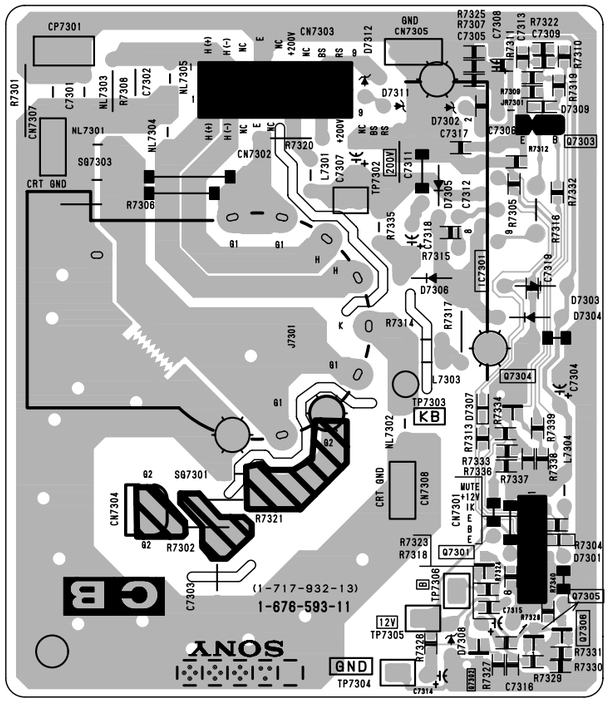
DIODE	(Component Side)	(Conductor Side)	✱
D2601	A-1		③
D2602	A-1		③
D2603	A-1		③
D2604	A-1		③
D2605		D-2	③
D2606	D-1		③
D2607		D-2	③
D2608	D-2		③
D2609	D-1		③
D2610	D-2		③
D2611	D-2		③
D2612	D-2		③
D2613		D-1	③
D2614		D-2	③
D2615	D-2		③
D2616	D-2		③
D2617	D-2		③
D2618		D-2	③
D2619	D-2		③
D2620		D-1	③
D2621	D-2		③
D2622		D-2	③
D2623	D-2		③
D2624	D-2		③

CRYSTAL	(Component Side)	(Conductor Side)
X2701	B-2	

✱: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)

CB [B CRT DRIVE]

— CB BOARD —



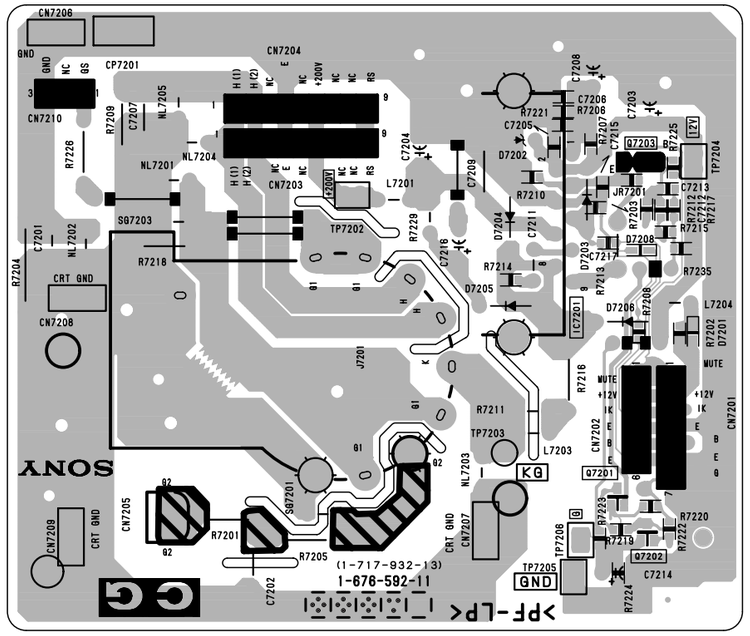
CB BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D7304, 7307, 7309	③
D7301, 7302, 7305, 7306	①

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)

CG [G CRT DRIVE]

— CG BOARD —



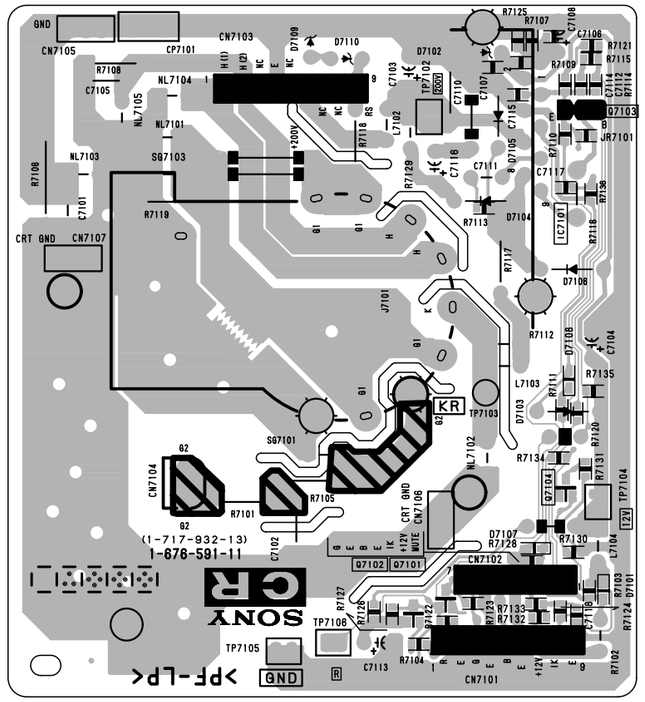
CG BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D7208	③
D7201, 7202	①

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)

CR [R CRT DRIVE]

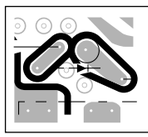
— CR BOARD —



CR BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D7108	③
D7101, 7104	①

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)

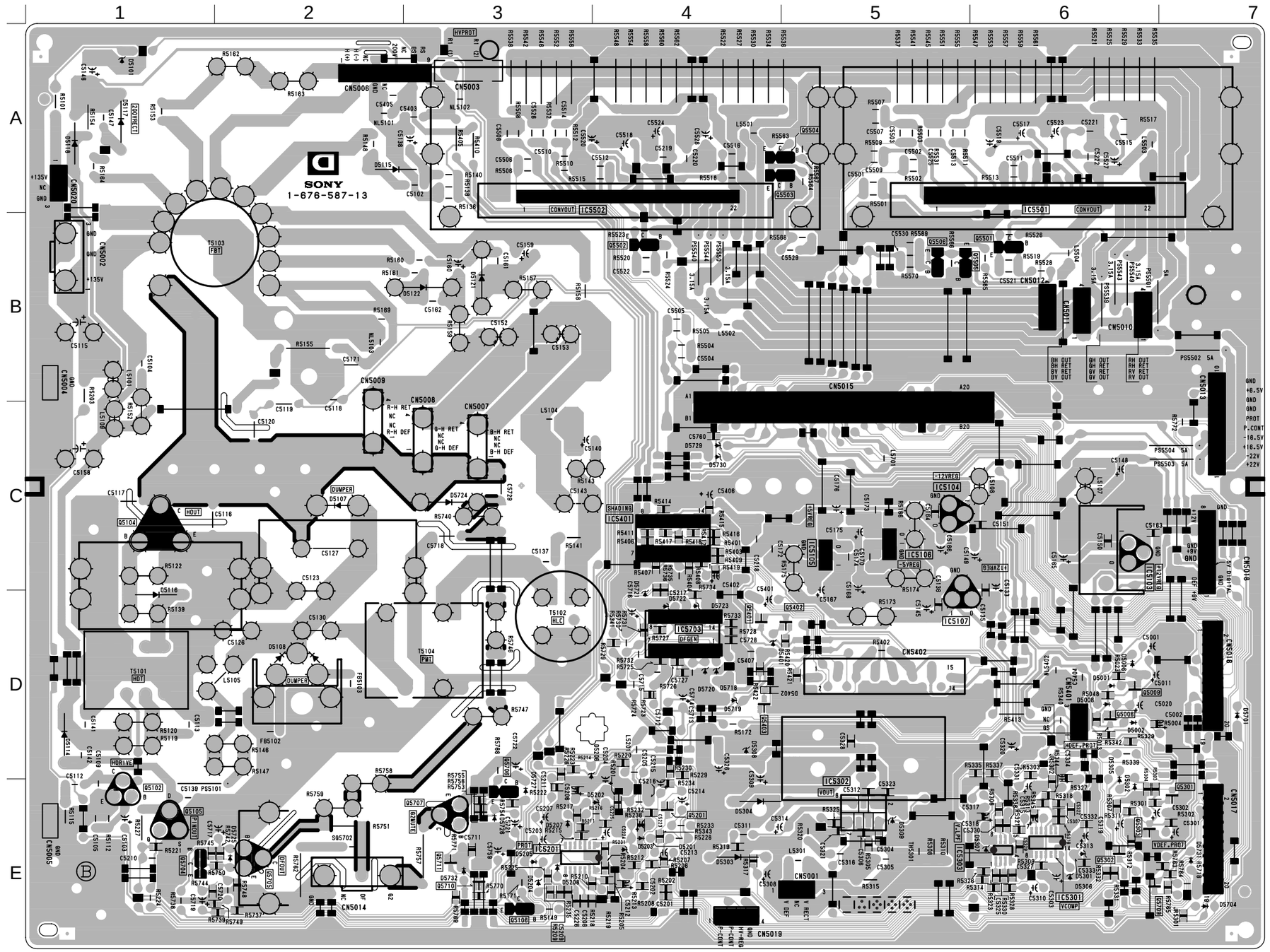


NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

D [H/V-DEF, HV, DY DRIVE]

NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

— D BOARD —



• D BOARD SEMICONDUCTOR LOCATION

IC		
IC5103	C-6	
IC5104	C-5	
IC5105	C-5	
IC5106	C-5	
IC5107	C-6	
IC5201	E-3	
IC5301	E-6	
IC5302	E-5	
IC5303	E-6	
IC5401	C-4	
IC5501	A-6	
IC5502	A-4	
IC5703	D-4	

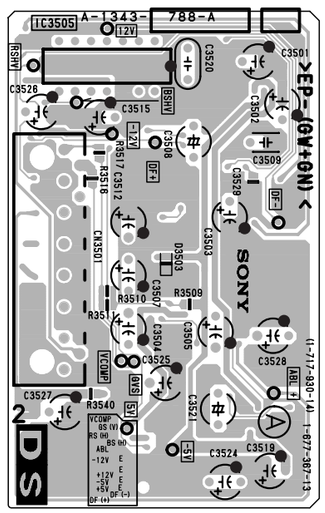
TRANSISTOR		*
Q5006	D-6	①
Q5009	D-6	①
Q5102	E-1	–
Q5104	C-5	–
Q5105	E-1	–
Q5106	E-3	–
Q5201	E-4	①
Q5302	E-6	①
Q5303	E-6	①
Q5401	D-4	①
Q5402	D-5	①
Q5403		
Q5501	B-6	–
Q5502	B-4	–
Q5503	A-5	–
Q5504	A-5	–
Q5505	B-5	–
Q5506	B-5	–
Q5704	E-1	–
Q5705	E-2	–
Q5706	E-3	–
Q5707	E-3	–
Q5709	E-7	①
Q5710	E-3	①
Q5711	E-3	①

DIODE		*
D5001	D-6	–
D5002	D-6	–
D5006	D-6	–
D5008	D-6	–
D5101	A-1	–
D5107	C-2	–
D5108	D-2	–
D5114	D-1	–
D5115	A-2	–
D5116	D-1	–
D5117	A-1	–
D5118	A-1	–
D5121	B-3	–
D5122	B-3	–
D5201	E-4	–
D5202	E-4	–
D5203	E-4	–
D5204	E-3	–
D5205	E-3	–
D5207	E-3	–
D5208	E-3	–
D5301	E-6	–
D5302	E-6	–
D5303	E-4	–
D5304	E-4	–
D5305		–
D5306	E-6	–
D5307	E-6	–
D5308	D-4	–
D5309	E-5	–
D5401	D-4	–
D5402	D-4	③
D5701	D-7	–
D5704	E-7	–
D5719	D-4	–
D5721	D-4	–
D5724	C-3	–
D5726	E-3	–
D5727	E-3	–
D5731	E-7	–
D5732	E-3	–

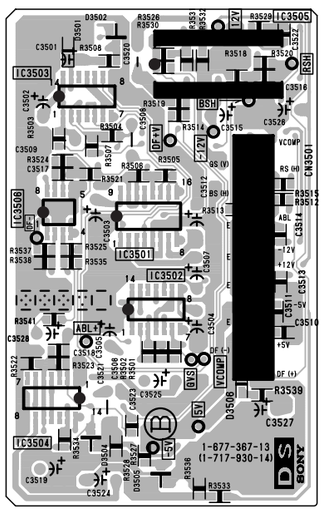
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)

DS ［SHADING］

— DS BOARD (Component Side) —



— DS BOARD (Conductor Side) —



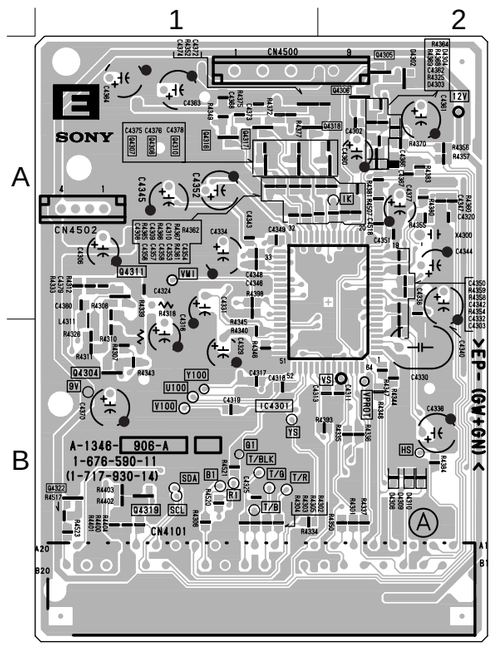
DS BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D3501, D3503	③
D3502	⑩

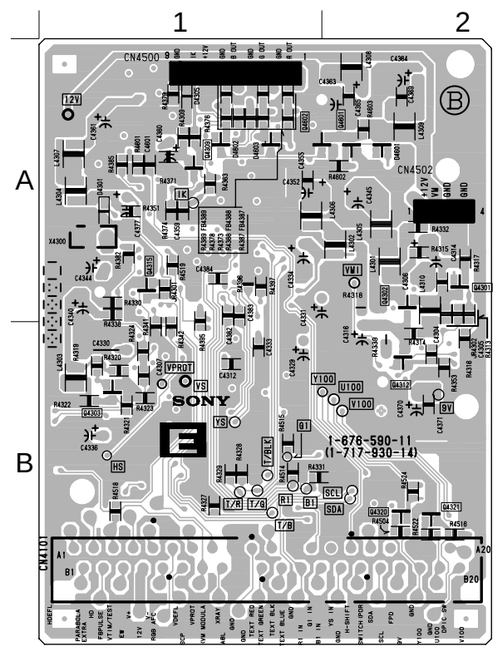
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)

E ［R/G/B/VM OUT, Y-C/J］

— E BOARD (Component Side) —



— E BOARD (Conductor Side) —



• E BOARD SEMICONDUCTOR LOCATION

IC

	(Component Side)	(Conductor Side)
IC4301	B-1	

TRANSISTOR

	(Component Side)	(Conductor Side)	∗
Q4301		A-2	①
Q4302		A-2	①
Q4303		B-1	①
Q4304	B-1		②
Q4307	A-1		②
Q4308	A-1		②
Q4310	A-1		②
Q4316	A-1		②
Q4317	A-1		②
Q4318	A-2		②
Q4320		B-2	①
Q4321		B-2	①
Q4322	B-1		②
Q4601		B-2	①
Q4602		A-1	①

DIODE

	(Component Side)	(Conductor Side)	∗
D4304	A-2		③
D4305		A-1	③
D4601		A-2	④
D4602		A-1	⑧
D4603		A-1	⑧

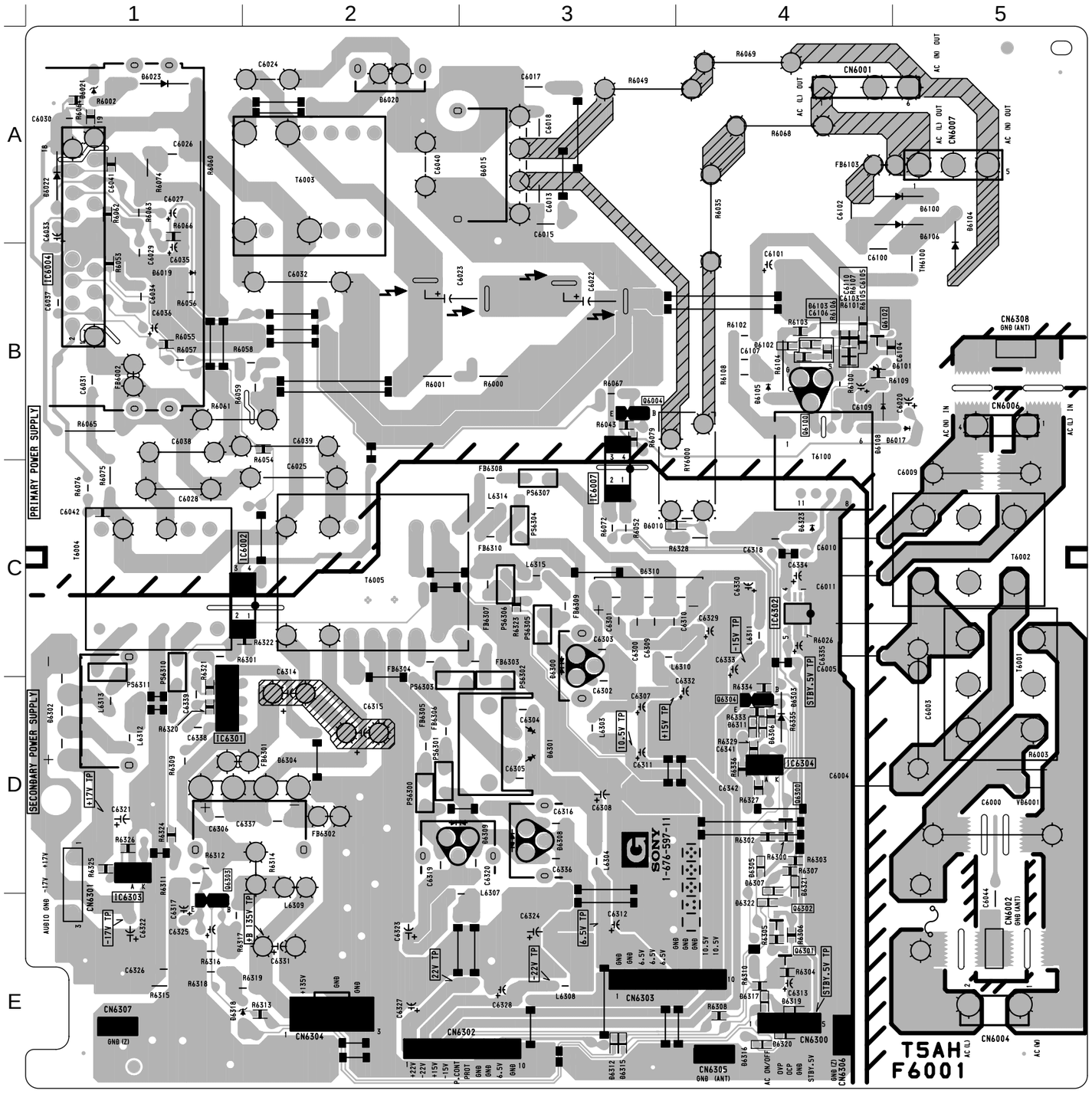
CRYSTAL

	(Component Side)	(Conductor Side)
X4300		A-1

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)

G [POWER SUPPLY]

— G BOARD —



• G BOARD SEMICONDUCTOR LOCATION

IC		
IC6002	C-1	
IC6004	A-1	
IC6007	C-3	
IC6301	D-1	
IC6302	C-4	
IC6303	D-1	
IC6304	D-4	

TRANSISTOR		
		*
Q6004	B-3	–
Q6100	B-4	–
Q6102	B-4	①
Q6300	D-4	①
Q6301	E-4	①
Q6302	E-4	①
Q6303	E-1	–
Q6304	D-4	–

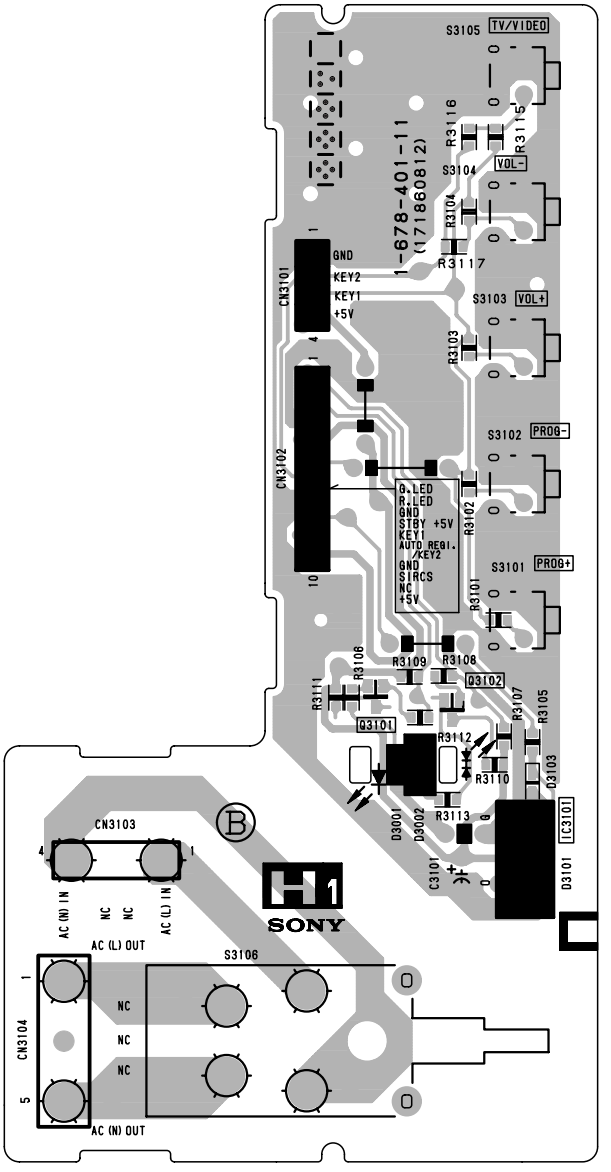
DIODE		
		*
D6010	C-3	③
D6015	A-3	–
D6017	B-5	–
D6019	B-1	–
D6020	A-2	–
D6021	A-1	–
D6022	A-1	–
D6023	A-1	–
D6100	A-5	–
D6101	B-4	–
D6102	B-4	③
D6103	B-4	③
D6104	B-5	–
D6105	B-4	–
D6106	A-5	–
D6108	B-4	–
D6300	C-3	–
D6301	D-3	–
D6302	D-1	–
D6303	D-4	–
D6304	D-2	–
D6305	D-4	③
D6306	D-4	③
D6307	D-4	③
D6308	D-3	–
D6309	D-2	–
D6310	C-3	–
D6311	D-4	③
D6312	E-3	③
D6315	E-3	③
D6316	E-4	③
D6317	E-4	③
D6318	E-1	–
D6319	E-4	③
D6320	E-4	③
D6323	C-4	–

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)

NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

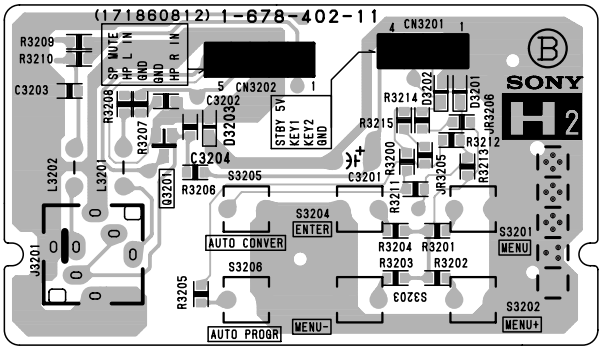
H1 [USER CONTROL, MAIN SWITCH]

— H1 BOARD —



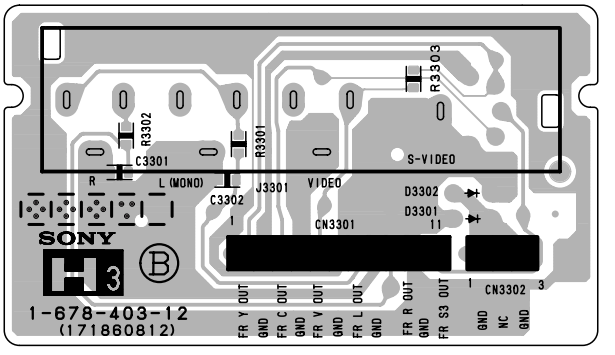
H2 [HP OUT, USER CONT]

— H2 BOARD —



H3 [AV INPUT]

— H3 BOARD —



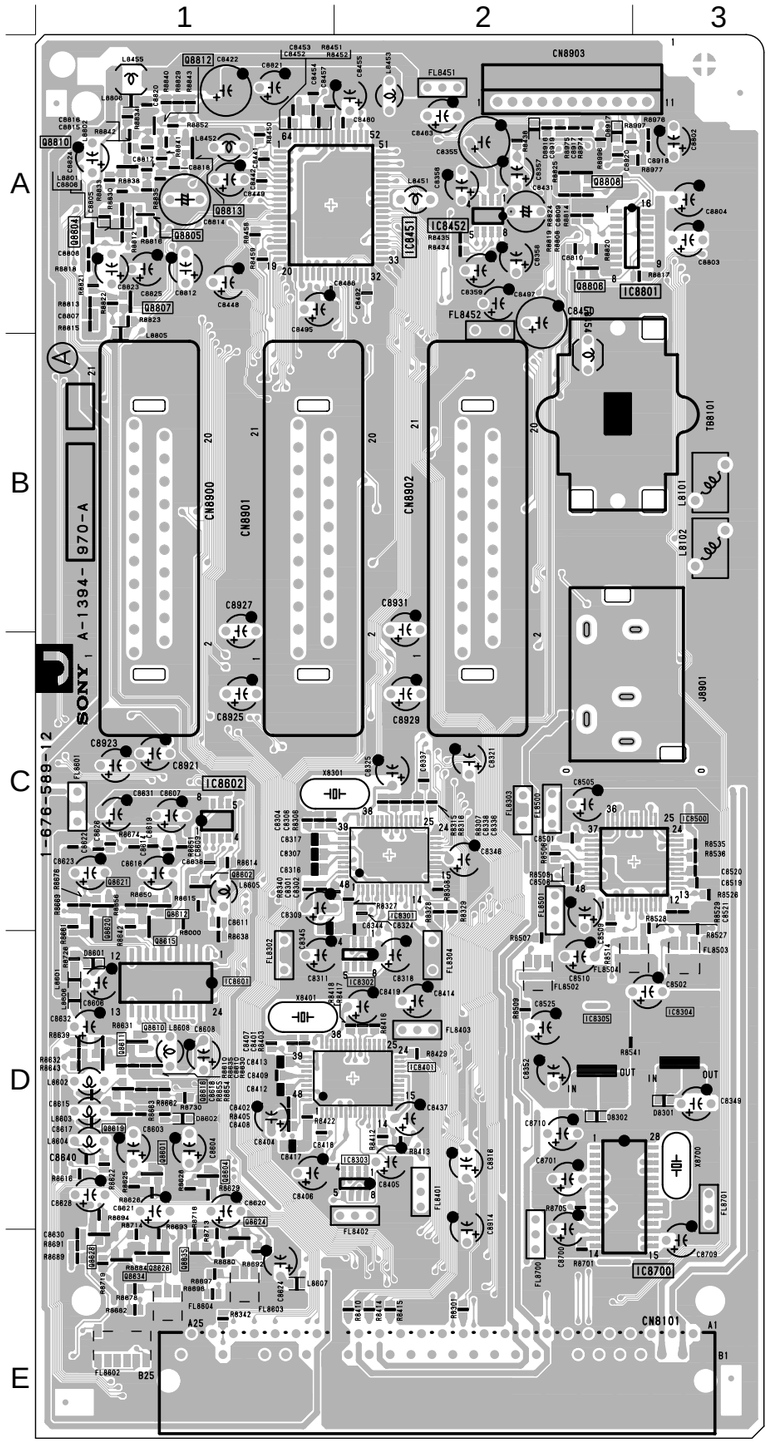
H1 BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
Q3101	①

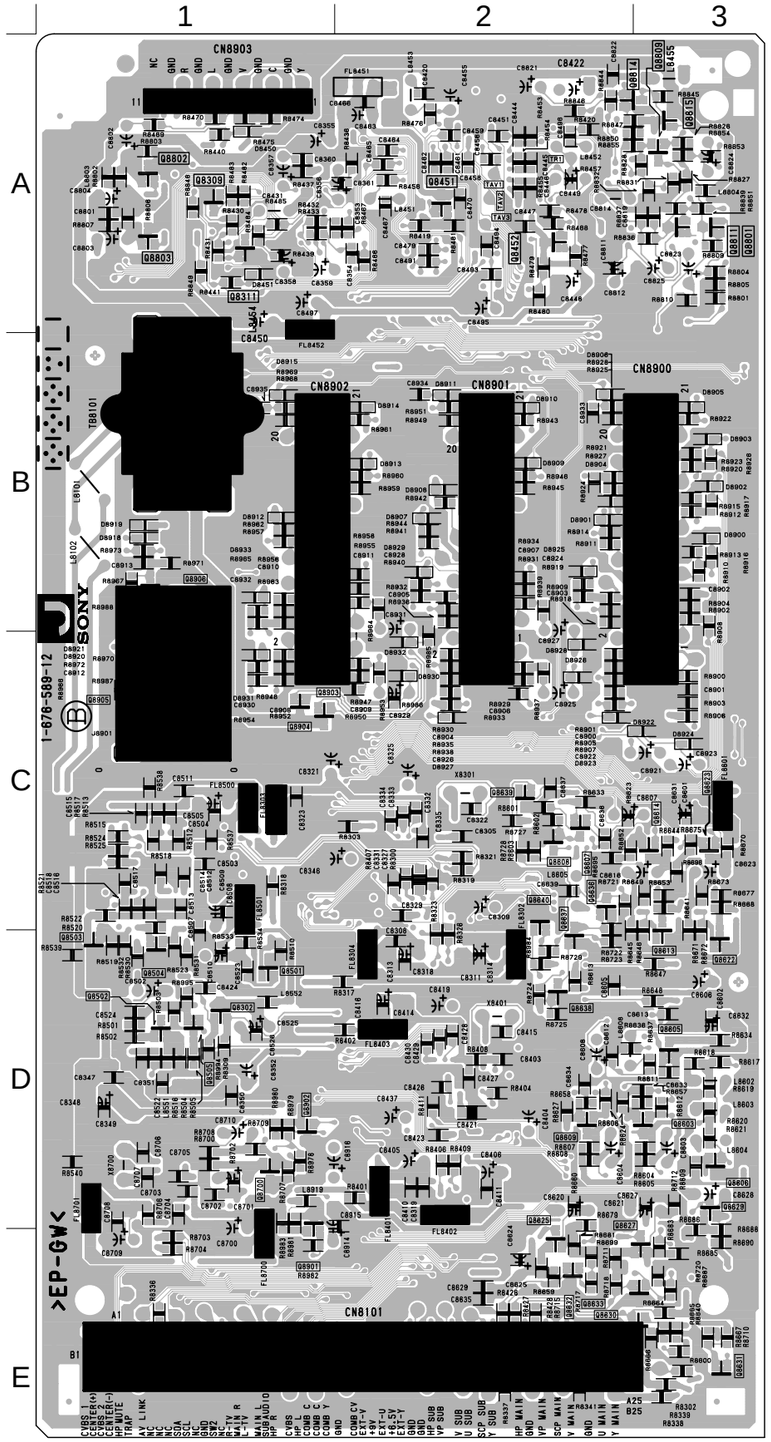
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)

J [AV SELECT SW VIDEO PROCESS]

— J BOARD (Component Side) —



— J BOARD (Conductor Side) —



• J BOARD SEMICONDUCTOR LOCATION

IC

	(Component Side)	*
IC8301	C-2	
IC8302	D-2	
IC8303	D-2	
IC8304	D-3	
IC8305	D-2	
IC8401	D-2	
IC8451	A-2	
IC8452	A-2	
IC8500	C-3	
IC8601	D-1	
IC8602	C-1	

TRANSISTOR

	(Component Side)	(Conductor Side)	*
Q8302		A-1	①
Q8309		A-1	①
Q8311		A-1	①
Q8451		A-2	①
Q8452		A-2	①
Q8501		D-1	①
Q8502		D-1	①
Q8503		D-1	①
Q8504		D-1	①
Q8601	D-1		②
Q8602	C-1		②
Q8603		D-3	①
Q8604	D-1		②
Q8605		D-3	①
Q8606		D-3	①
Q8607		C-2	①
Q8609		D-2	①
Q8610	D-1		②
Q8611	D-1		②
Q8612	C-1		②
Q8614		A-2	①
Q8615	D-1		②
Q8616	D-1		②
Q8620	C-1		②
Q8621	C-1		②
Q8623		C-3	①
Q8624	D-1		②
Q8625		D-2	①
Q8626	E-1		②
Q8627		E-3	①
Q8628	E-1		②
Q8629		D-3	①
Q8630		E-2	①
Q8631		E-3	①
Q8632		E-2	①
Q8633		E-2	①
Q8634	E-1		②
Q8635	E-1		②
Q8636		C-2	①
Q8637		C-2	①
Q8638		D-2	①
Q8639		C-2	①
Q8640		C-2	①
Q8801		A-3	①
Q8804	A-1		②
Q8805	A-1		⑮
Q8807	A-1		②
Q8809		A-3	①
Q8810	A-1		②
Q8811		A-3	①
Q8812	A-1		②
Q8813	A-1		②
Q8814		A-3	①
Q8815		A-3	①
Q8901		E-1	①
Q8902		D-1	①
Q8903		C-1	①
Q8904		C-1	①
Q8905		C-1	①
Q8906		B-1	①

DIODE

	(Component Side)	(Conductor Side)	*
D8301	D-3		③
D8302	D-2		③
D8450		A-1	③
D8451		A-1	③
D8601	D-1		③
D8900		B-3	③
D8901		B-2	③
D8902		B-3	③
D8903		B-3	③
D8904		B-2	③
D8905		B-3	③
D8906		B-2	③
D8907		B-2	③
D8908		B-2	③
D8909		B-2	③
D8910		B-2	③
D8911		B-2	③
D8912		B-1	③
D8913		B-2	③
D8914		B-2	③
D8915		B-1	③
D8916	A-2		③
D8917	A-2		③
D8918		B-1	③
D8919		B-1	③
D8920		C-1	③
D8921		C-1	③
D8922		C-3	③
D8923		C-2	③
D8924		C-3	③
D8925		B-2	③
D8926		C-2	③
D8927		C-2	③
D8928		C-2	③
D8929		B-2	③
D8930		C-2	③
D8931		C-1	③
D8932		C-2	③
D8933		B-1	③

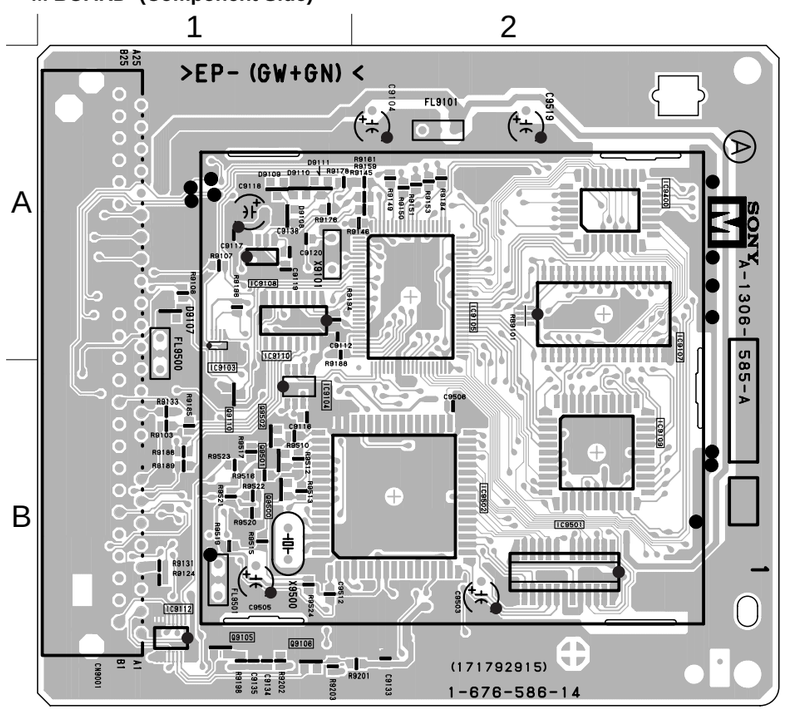
CRYSTAL

	(Component Side)	(Conductor Side)
X8301	C-1	
X8401	D-1	

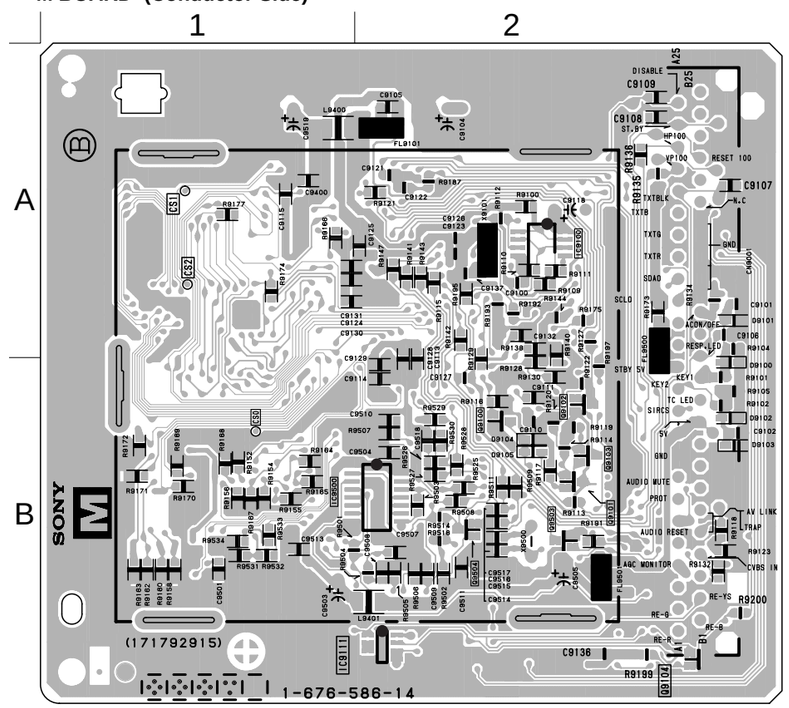
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)

M [MICRO CONTROL TEXT]

— M BOARD (Component Side) —



— M BOARD (Conductor Side) —



• M BOARD SEMICONDUCTOR LOCATION

IC	(Component Side)	(Conductor Side)
IC9100		A-2
IC9103	A-1	
IC9104	B-1	
IC9105	A-2	
IC9107	A-2	
IC9108	A-1	
IC9109	B-2	
IC9110	A-1	
IC9111		B-2
IC9112	B-1	
IC9400	A-2	
IC9500		B-2
IC9501	B-2	
IC9502	B-2	

TRANSISTOR	(Component Side)	(Conductor Side)	✻
Q9100		B-2	①
Q9101		B-2	①
Q9102		B-2	①
Q9103		B-2	①
Q9104		B-2	①
Q9105	B-1		②
Q9106	B-1		②
Q9110	B-1		②
Q9500	B-1		②
Q9501	B-1		②
Q9502	B-1		②
Q9503		B-2	①
Q9504		B-2	①

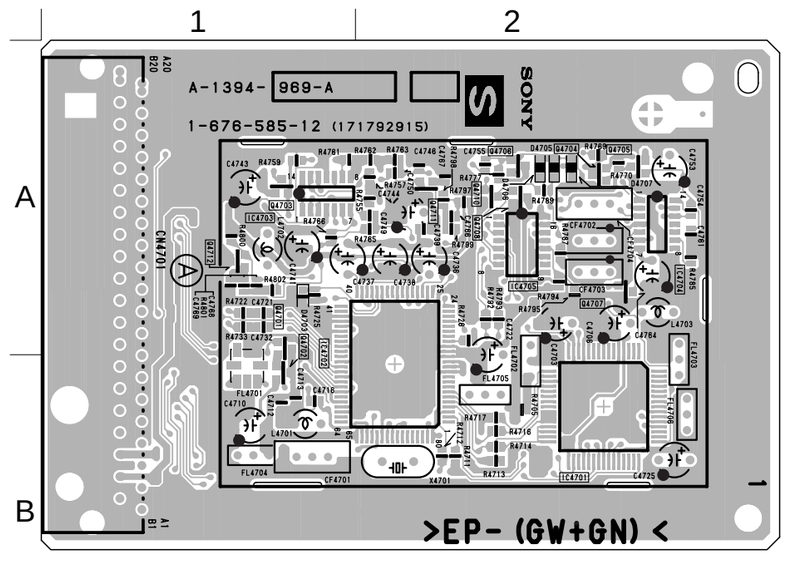
DIODE	(Component Side)	(Conductor Side)	✻
D9100		B-2	③
D9101		A-2	③
D9102		B-2	③
D9103		B-2	③
D9104		B-2	③
D9105		B-2	③
D9107	A-1		⑤
D9108	A-1		⑨
D9109	A-1		⑤
D9110	A-1		⑨
D9111	A-1		⑤

CRYSTAL	(Component Side)	(Conductor Side)
X9101	A-1	
X9500	B-1	

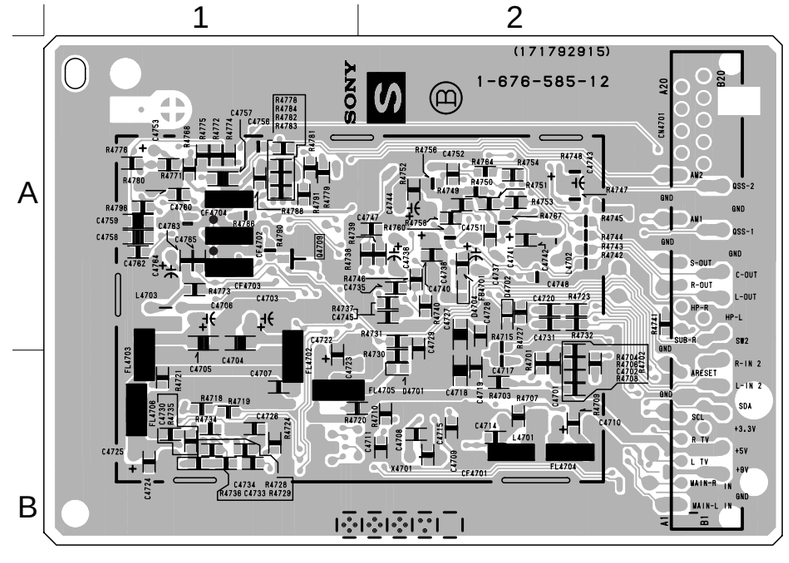
✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)

S [AUDIO PROCESS]

— S BOARD (Component Side) —



— S BOARD (Conductor Side) —



• S BOARD SEMICONDUCTOR LOCATION

IC	(Component Side)	(Conductor Side)
IC4702	B-2	
IC4703	A-1	
IC4704	A-2	
IC4705	A-2	

TRANSISTOR	(Component Side)	(Conductor Side)	✻
Q4701	A-1		2
Q4702	B-1		2
Q4703	A-1		2
Q4706	A-2		2
Q4707	A-2		2
Q4708	A-2		2
Q4709		A-1	1
Q4710	A-2		2
Q4711	A-2		2
Q4712	A-1		2

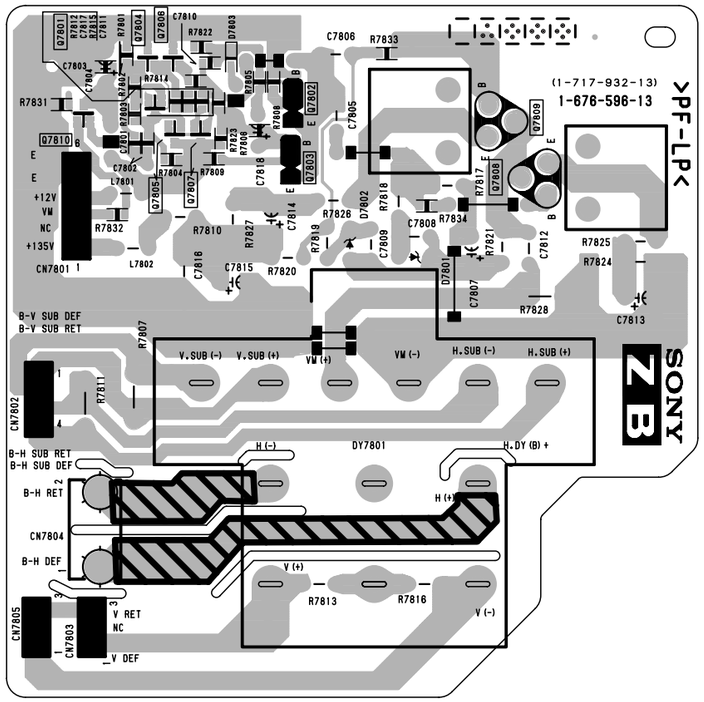
DIODE	(Component Side)	(Conductor Side)	✻
D4702		A-2	3
D4703	A-1		3
D4704		A-2	3
D4705	A-2		3
D4706	A-2		3
D4707	A-2		3

CRYSTAL	(Component Side)	(Conductor Side)
X4701	B-2	

✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)

ZB [DY, VM DRIVE]

— ZB BOARD —



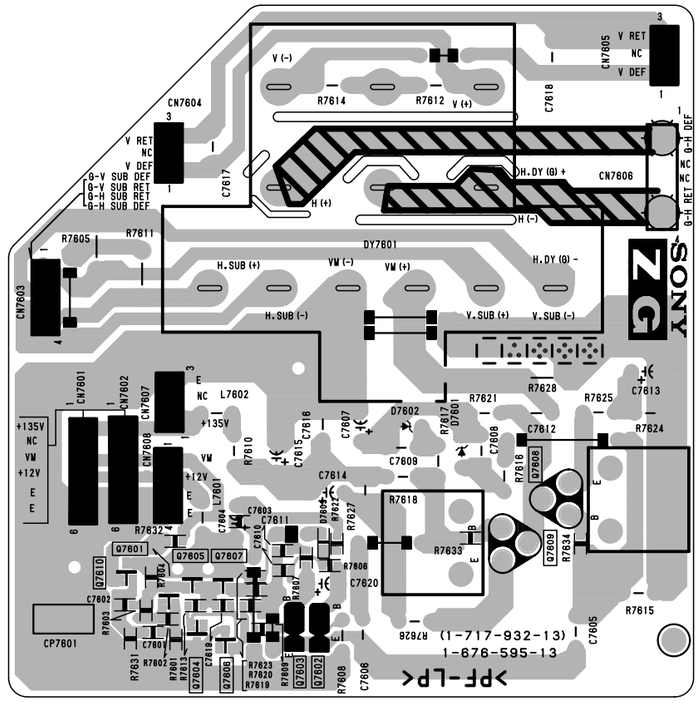
ZB BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D7803	③
Q7801, 7804 – 7807, Q7810	①

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)

ZG [DY, VM DRIVE]

— ZG BOARD —



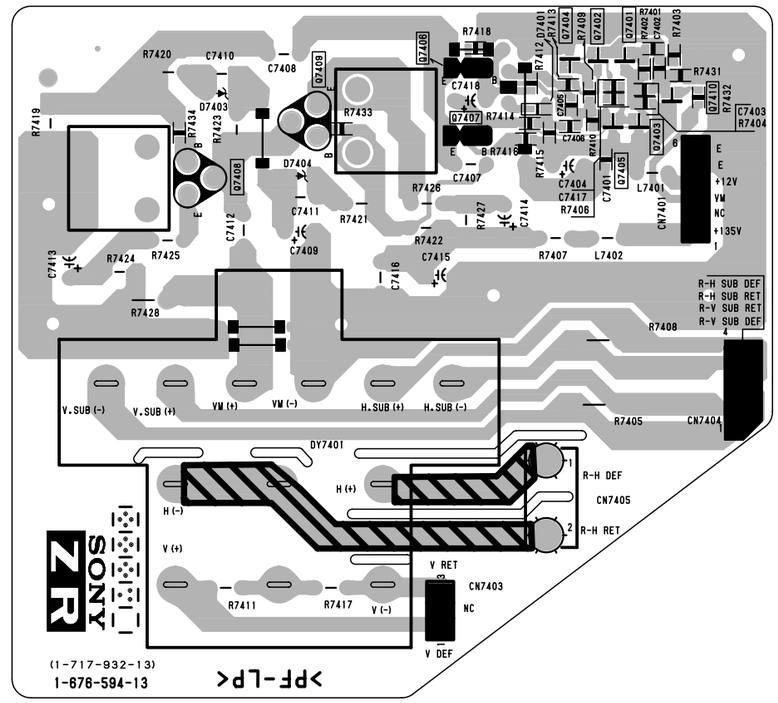
ZG BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D7603	③
Q7601, 7604 – 7607, Q7610	①

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)

ZR [DY, VM DRIVE]

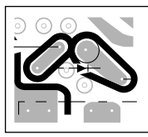
— ZR BOARD —



ZR BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D7401	③
Q7401 – 7405, 7410	①

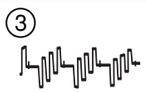
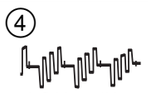
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 40)



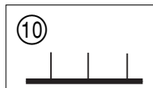
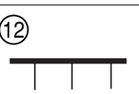
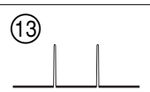
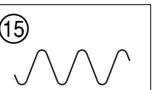
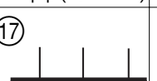
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

6-5. WAVEFORMS

• B3 (1/5) BOARD WAVEFORMS

①  1.1Vp-p (H)	②  1.1 Vp-p (H)	③  1.1 Vp-p (H)	④  1.2 Vp-p (H)	⑤  1.2 Vp-p (H)	⑥  1.2 Vp-p (H)
⑦  4.9 Vp-p (H)	⑧  4.9 Vp-p (V)	⑨  1.4 Vp-p (53.7 MHz)			

• B3 (2/5) BOARD WAVEFORMS

⑩  3.1 Vp-p (V)	⑪  3.9 Vp-p (13.4 MHz)	⑫  3.6 Vp-p (H)	⑬  3.4 Vp-p (H)	⑭  3.2 Vp-p (H)	⑮  1.3 Vp-p (53.7 MHz)
⑯  1.4 Vp-p (53.7 MHz)	⑰  3.5 Vp-p (V)	⑱  3.4Vp-p (H)			

• B3 (4/5) BOARD WAVEFORMS

⑲  3.2 Vp-p (23 MHz)	⑳  4.5 Vp-p (36 MHz)	㉑  1.9 Vp-p (V)	㉒  1.5 Vp-p (17.28 MHz)	㉓  1.1 Vp-p (54 MHz)	㉔  3.4 Vp-p (V)
㉕  3.4 Vp-p (H)					

• B3 (5/5) BOARD WAVEFORMS

㉖  3.2 Vp-p (H)	㉗  3.4 Vp-p (23 MHz)	㉘  4.6 Vp-p (36 MHz)

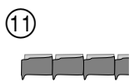
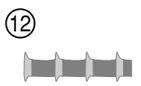
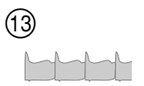
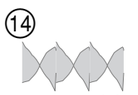
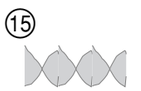
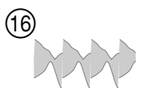
• BD (1/4) BOARD WAVEFORMS

①  6.0 Vp-p (8 MHz)	②  5.1 Vp-p (500 kHz)	③  4.6 Vp-p (V)	④  4.8 Vp-p (H)

• BD (2/4) BOARD WAVEFORMS

⑤  4.9 Vp-p (V)	⑥  5.5 Vp-p (16 MHz)	⑦  5.1 Vp-p (H)	⑧  4.5 Vp-p (V)	⑨  3.5 Vp-p (12 MHz)	⑩  6.6 Vp-p (32 MHz)

• BD (3/4) BOARD WAVEFORMS

⑪  1.0 Vp-p (V)	⑫  0.9 Vp-p (V)	⑬  1.3 Vp-p (V)	⑭  1.9 Vp-p (V)	⑮  1.4 Vp-p (V)	⑯  2.1 Vp-p (V)

• CB BOARD WAVEFORMS

①  4.6 Vp-p (H)	②  126 Vp-p (H)	③  128 Vp-p (H)

• CG BOARD WAVEFORMS

①  4.7 Vp-p (H)	②  114 Vp-p (H)	③  114 Vp-p (H)

• CR BOARD WAVEFORMS

①  4.8 Vp-p	②  86 Vp-p (H)	③  88 Vp-p (H)

• **D (1/4) BOARD WAVEFORMS**

①	②	③
0.6 Vp-p (V)	2.6 Vp-p (H)	3.6 Vp-p (H)

• **D (2/4) BOARD WAVEFORMS**

④	⑤	⑥	⑦	⑧	⑨
0.5 Vp-p (V)	59.0 Vp-p (V)	0.5 Vp-p (V)	12.5 Vp-p (H)	5.2 Vp-p (H)	229.5 Vp-p (H)
⑩	⑪				
8.4 Vp-p (H)	1260 Vp-p (H)				

• **D (3/4) BOARD WAVEFORMS**

⑫	⑬	⑭	⑮	⑯	⑰
22.8 Vp-p (V)	17.8 Vp-p (V)	38.3 Vp-p (V)	31.3 Vp-p (V)	22.3 Vp-p (V)	22.3 Vp-p (V)

• **DS BOARD WAVEFORMS**

①	②	③	④
0.8 Vp-p (H)	1.8 Vp-p (H)	0.2 Vp-p (V)	2.3 Vp-p (H)

• **E BOARD WAVEFORMS**

①	②	③	④	⑤	⑥
0.5 Vp-p (H)	0.6 Vp-p (H)	0.6 Vp-p (H)	5.0 Vp-p (H)	4.9 Vp-p (V)	1.5 Vp-p (V)
⑦	⑧	⑨	⑩	⑪	⑫
1.5 Vp-p (V)	0.1 Vp-p (503.5 kHz)	5.7 Vp-p (H)	2.3 Vp-p (H)	2.3 Vp-p (H)	2.2 Vp-p (H)
⑬					
2.3 Vp-p (H)					

• **J (1/5) BOARD WAVEFORMS**

①	② PAL/NTSC	② SECAM	③ PAL/NTSC	③ SECAM	④
PAL : 0.8 Vp-p (4.43 MHz) SECAM : 0.8 Vp-p (4.43 MHz) NTSC : 0.9 Vp-p (3.58 MHz)	1.6 Vp-p (H)	1.8 Vp-p (H)	1.0 Vp-p (H)	0.7 Vp-p (H)	1.4 Vp-p (H)

• **J (3/5) BOARD WAVEFORMS**

⑤	⑥	⑦ PAL/NTSC	⑦ SECAM	⑧ PAL/NTSC	⑧ SECAM
0.3 Vp-p (16.2 MHz)	PAL : 0.8 Vp-p (4.43 MHz) SECAM : 0.8 Vp-p (4.43 MHz) NTSC : 0.9 Vp-p (3.58 MHz)	1.1 Vp-p (H)	1.1 Vp-p (H)	2.2 Vp-p (H)	2.4Vp-p (H)
⑨	⑩ PAL/NTSC	⑩ SECAM	⑪	⑫	⑬
0.8 Vp-p (H)	0.5 Vp-p (H)	0.3 Vp-p (H)	1.1 Vp-p (H)	1.1 Vp-p (H)	0.8 Vp-p (H)
⑭	⑮				
5.1 Vp-p (H)	5.0 Vp-p (V)				

• **J (4/5) BOARD WAVEFORMS**

⑯ PAL/NTSC	⑯ SECAM	⑰ PAL/NTSC	⑰ SECAM	⑱ PAL/NTSC	⑱ SECAM
1.1 Vp-p (H)	1.2 Vp-p (H)	2.0 Vp-p (H)	2.2 Vp-p (H)	1.1 Vp-p (H)	1.2 Vp-p (H)

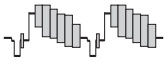
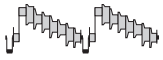
• **J (5/5) BOARD WAVEFORMS**

⑲ PAL/NTSC	⑲ SECAM	⑳	㉑	㉒	㉓
1.6 Vp-p (H)	1.7 Vp-p (H)	0.8 Vp-p (H)	0.8 Vp-p (H)	1.3 Vp-p (H)	1.1 Vp-p (H)
㉔	㉕	㉖			
1.3 Vp-p (H)	1.3 Vp-p (H)	1.6 Vp-p (H)			

• **M (1/2) BOARD WAVEFORMS**

①	②	③
		
5.1 Vp-p (V)	5.1 Vp-p (H)	1.0 Vp-p (16 MHz)

• **M (2/2) BOARD WAVEFORMS**

④ PAL/NTSC	④ SECAM	⑤	⑥	⑦
				
2.1 Vp-p (H)	2.3 Vp-p (H)	1.5 Vp-p (20.48 MHz)	5.1 Vp-p (H)	5.1 Vp-p (V)

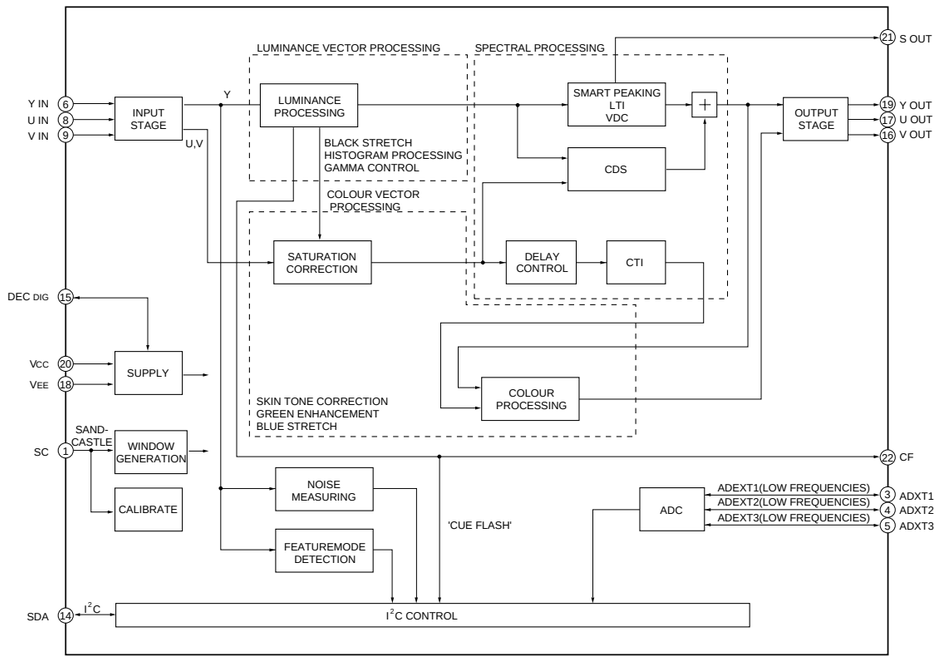
• **S BOARD WAVEFORM**

①

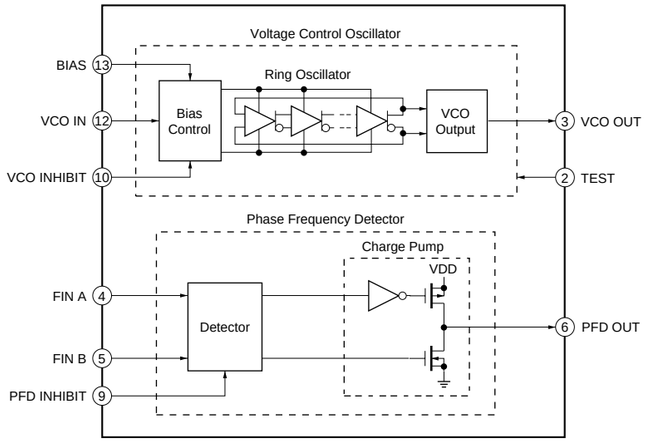
1.6 Vp-p (18.432 MHz)

6-6. IC BLOCK DIAGRAMS

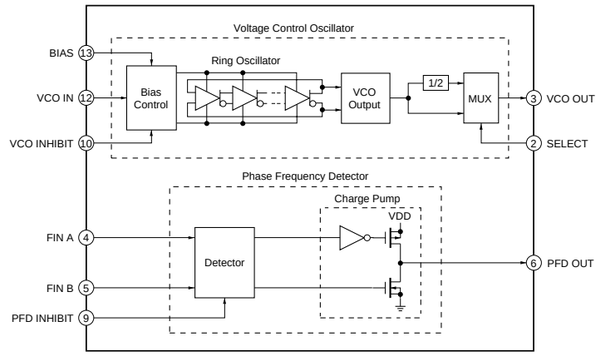
- **J (5/5) BOARD IC8601**
  TDA9178T



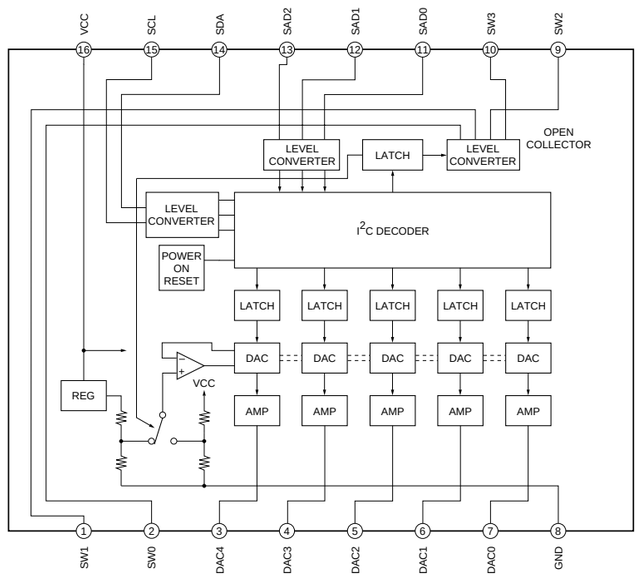
- **B3 (1/5) BOARD IC504**
  TLC2933IPWR



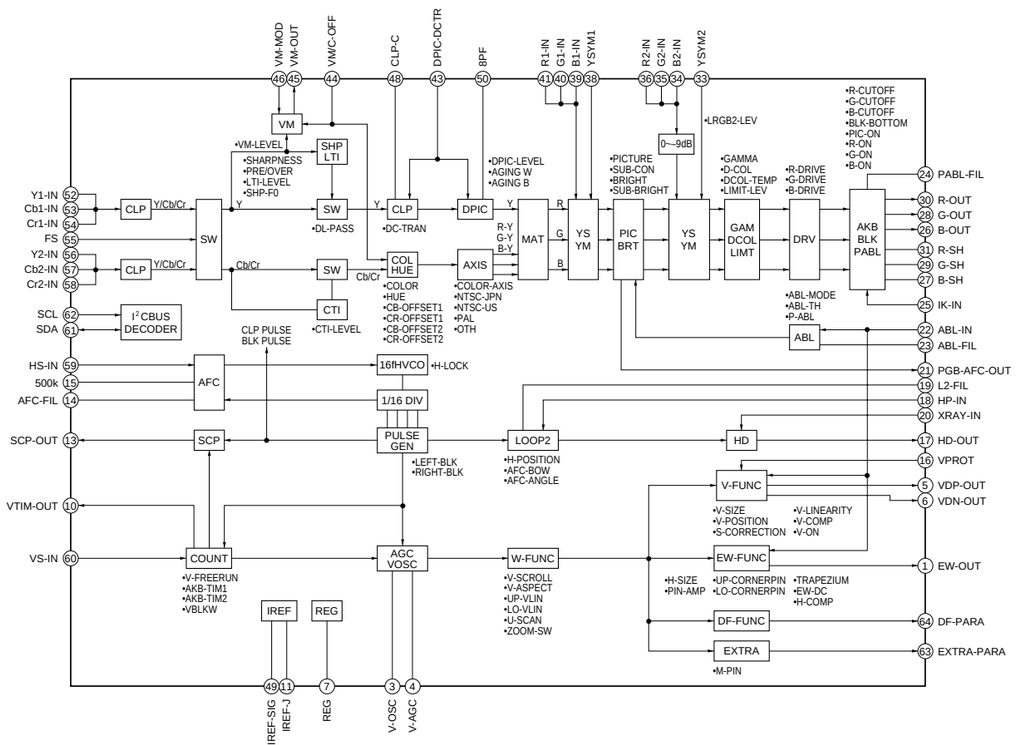
- **B3 (2/5) BOARD IC603**
- **B3 (5/5) BOARD IC313**
- **BD (2/4) BOARD IC2612**
  TLC2932IPW



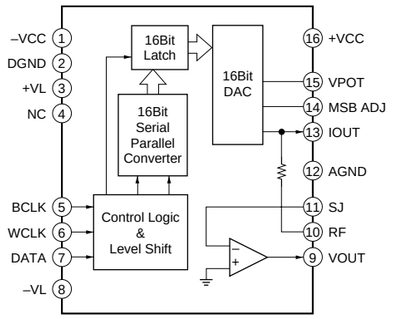
- **A (1/3) BOARD IC1401**
- **B3 (2/5) BOARD IC604**
- **S BOARD IC4705**
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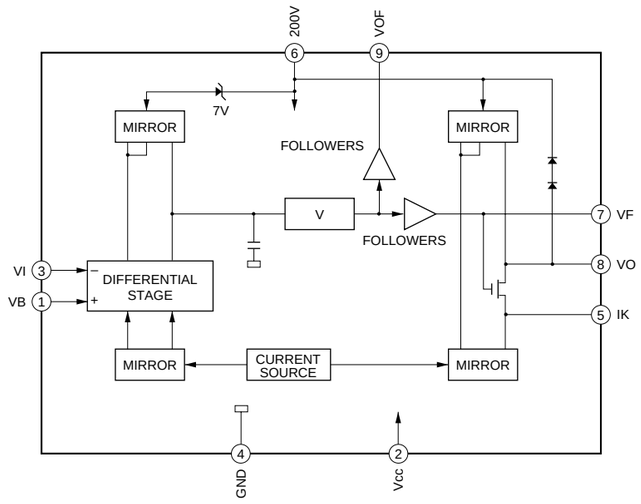
- **E BOARD IC4301**
  CXA2100AQ



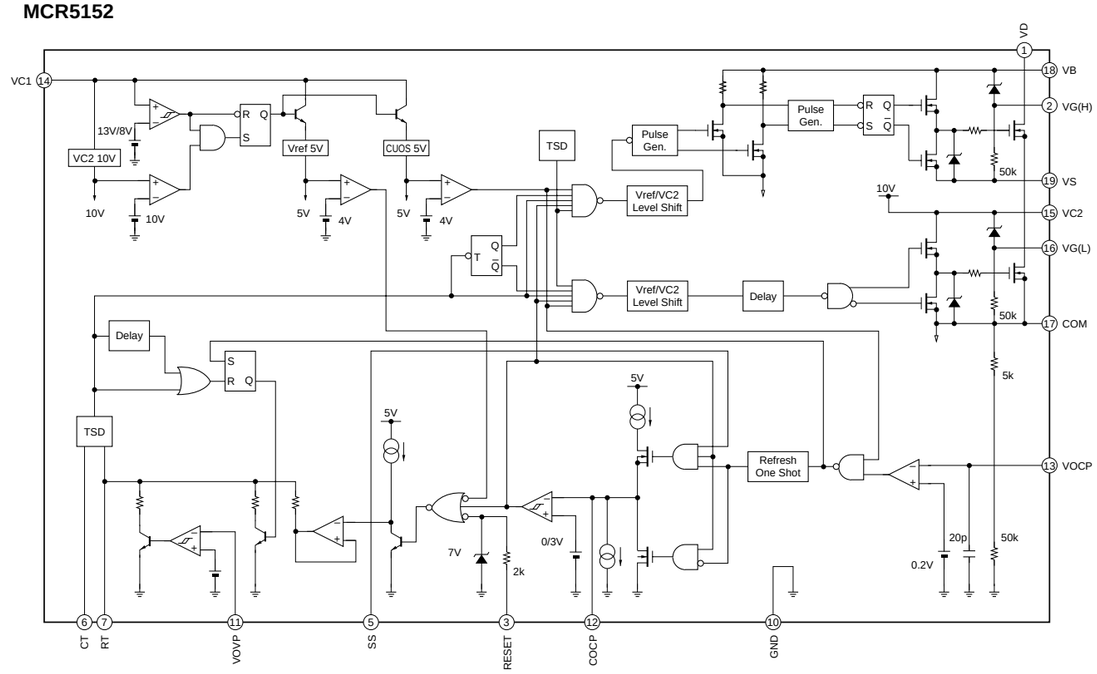
- **BD (3/4) BOARD IC2602, 2604, 2609, 2614, 2623, 2625 PCM56P**



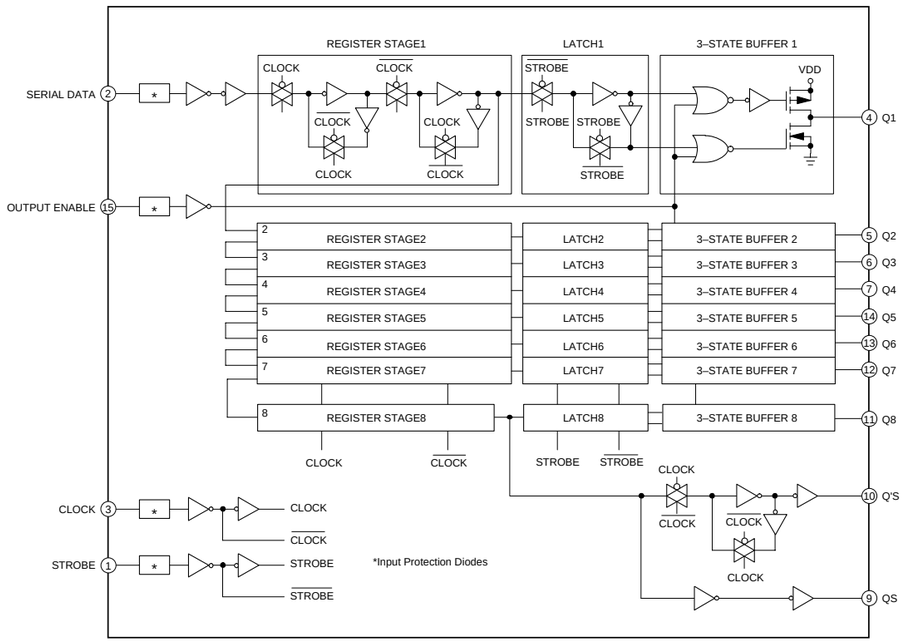
- **CR BOARD IC7101**
- **CG BOARD IC7201**
- **CB BOARD IC7301**
  TDA6111Q



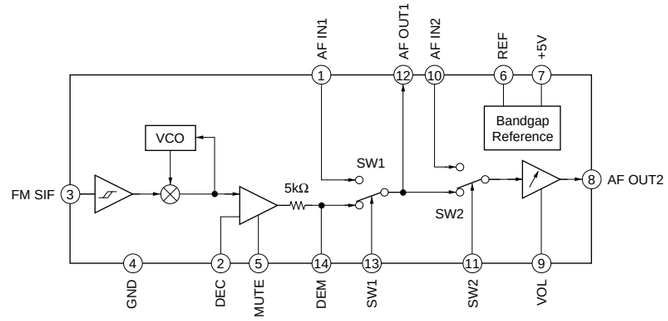
- **G (2/2) BOARD IC6004**
  MCR5152



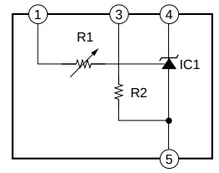
- **M (1/2) BOARD IC9110**
  MC14094BF



- **S BOARD IC4704**
  U2861B

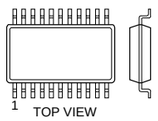


- **G (1/2) BOARD IC6301**
  DM-58



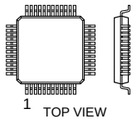
6-7. SEMICONDUCTORS

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MM74HC32SJX
NJM2058M-TE2
NJM3403AM
SN74HC74ANS
TC74AC32F
TLC2932IPW-E20
TLC2932IPWR
TLC2933IPW-E20
TLC2933IPWR-12
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UPC339G2-E2



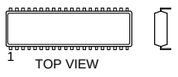
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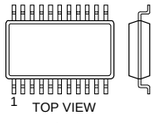
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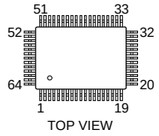
36pin DIP

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MC14094BFEL
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PCM56P
TC74HC4053AFT(EL)

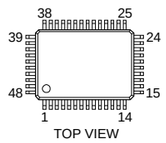


16pin SOP

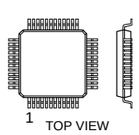
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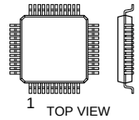


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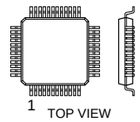
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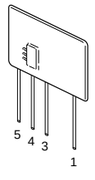
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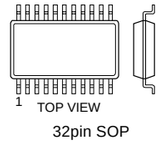


240pin QFP

DM-58

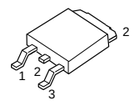


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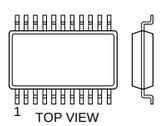


32pin SOP

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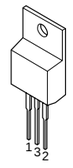


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MB3793-42PNF
MB3793-42PNF-ER
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TC7W00F(TE12R)
TC7W08F
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TC7W66FU(TE12R)
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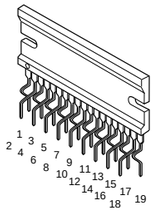


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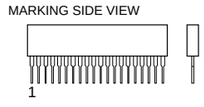
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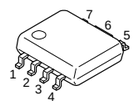


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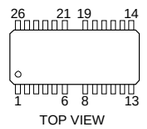


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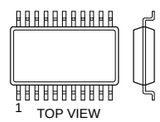
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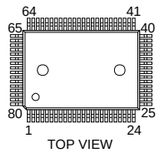


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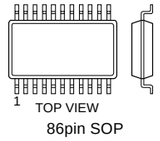


50pin SOP

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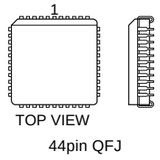


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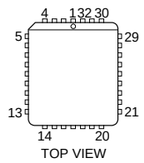
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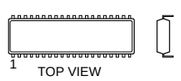


44pin QFJ

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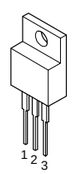


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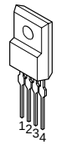


14pin DIP

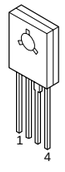
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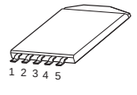
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PQ09RA1
PQ09RF11



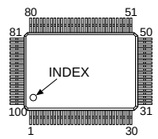
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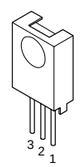
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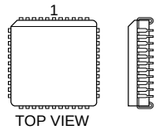
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SBX1981-51RP

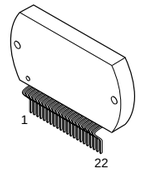


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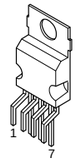
68pin QFJ

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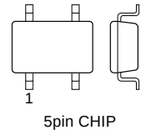


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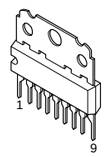


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TC7SET08F(TE85L)
TC7SET08FU(TE85L

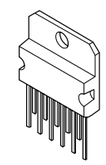


5pin CHIP

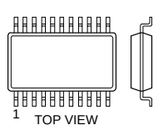
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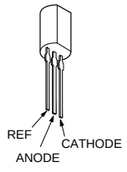


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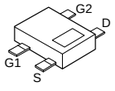


24pin SOP

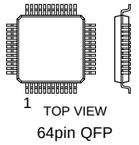
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BSS83

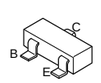


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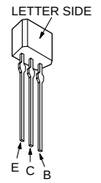


64pin QFP

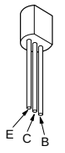
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2SA1037AK-T146-QR
2SA1037AK-T146-R
2SA1162-G
2SB709A-QRS-TX
2SC1623-L5L6
2SC2412K-T-146-R
2SD2114K
2SD2114KT146
2SD601A-Q



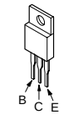
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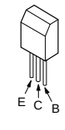
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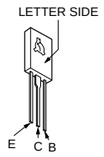
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2SC4634LS-CB11
2SC5022-02
2SC5511



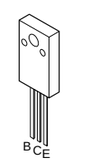
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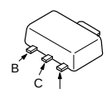
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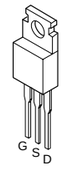
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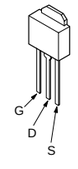
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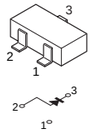
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2SK2663

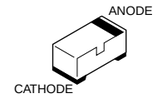


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MA3220M-TX
RD5.6M-B2

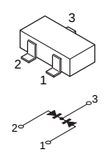


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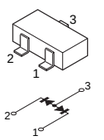
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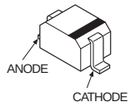
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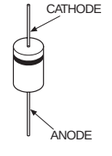
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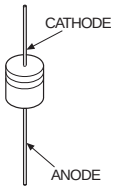
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MA113-(TX)
UDZ-TE-17- 8.2B
UDZS-TE17-12B
UDZS-TE17-15B
UDZSTE-173.9B
UDZSTE-174.7B
UDZSTE-175.1B
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UDZSTE-176.2B
UDZSTE-176.8B
UDZSTE-178.2B
UDZSTE-179.1B
1SS355TE-17



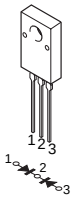
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GP08D
RGP02-20EL-6394
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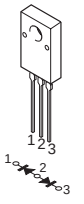
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MTZJ-7.5B
MTZJ-T-72-18B
MTZJ-T-77-15
MTZJ-T-77-24
MTZJ-T-77-36B
MTZJ-T-77-7.5B
RD10ESB2
RD13ES-B2
RD5.1ESB2
1SS133T-77



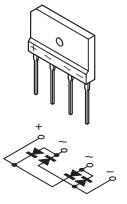
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D10SC6M-4012



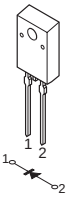
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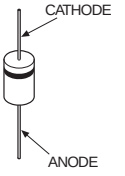
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D4SBS4-F
RBA-406B



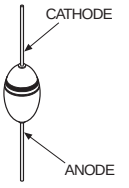
D5L60



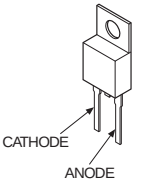
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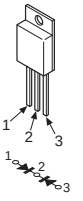
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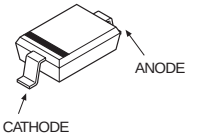
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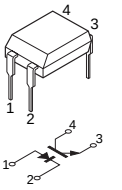
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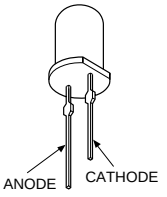
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MM3Z2V4T1



ON3171-R



SLA-580LT3F



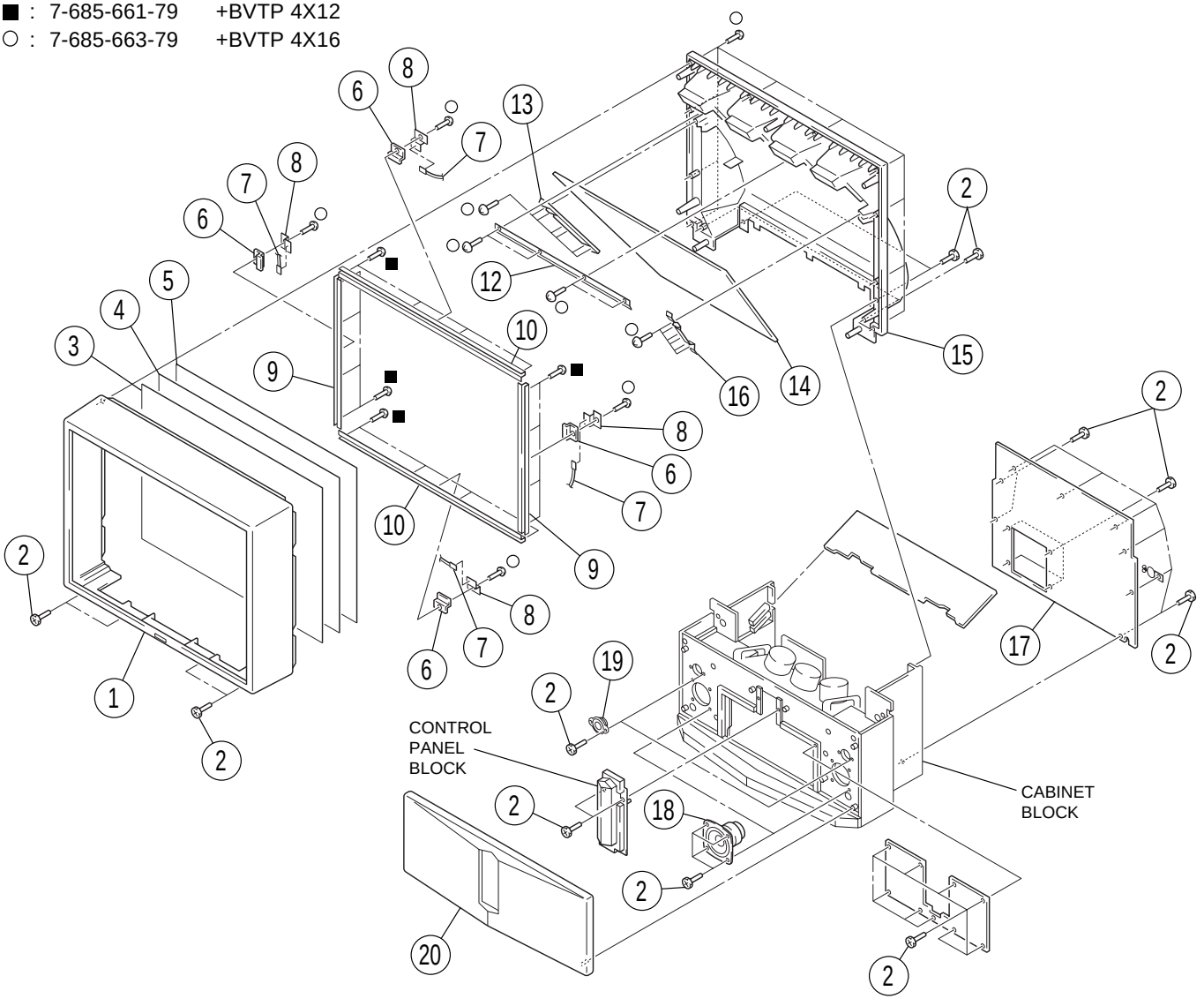
SECTION 7
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. SCREEN AND COVER BLOCK (KP-48)

■ : 7-685-661-79 +BVTP 4X12
○ : 7-685-663-79 +BVTP 4X16

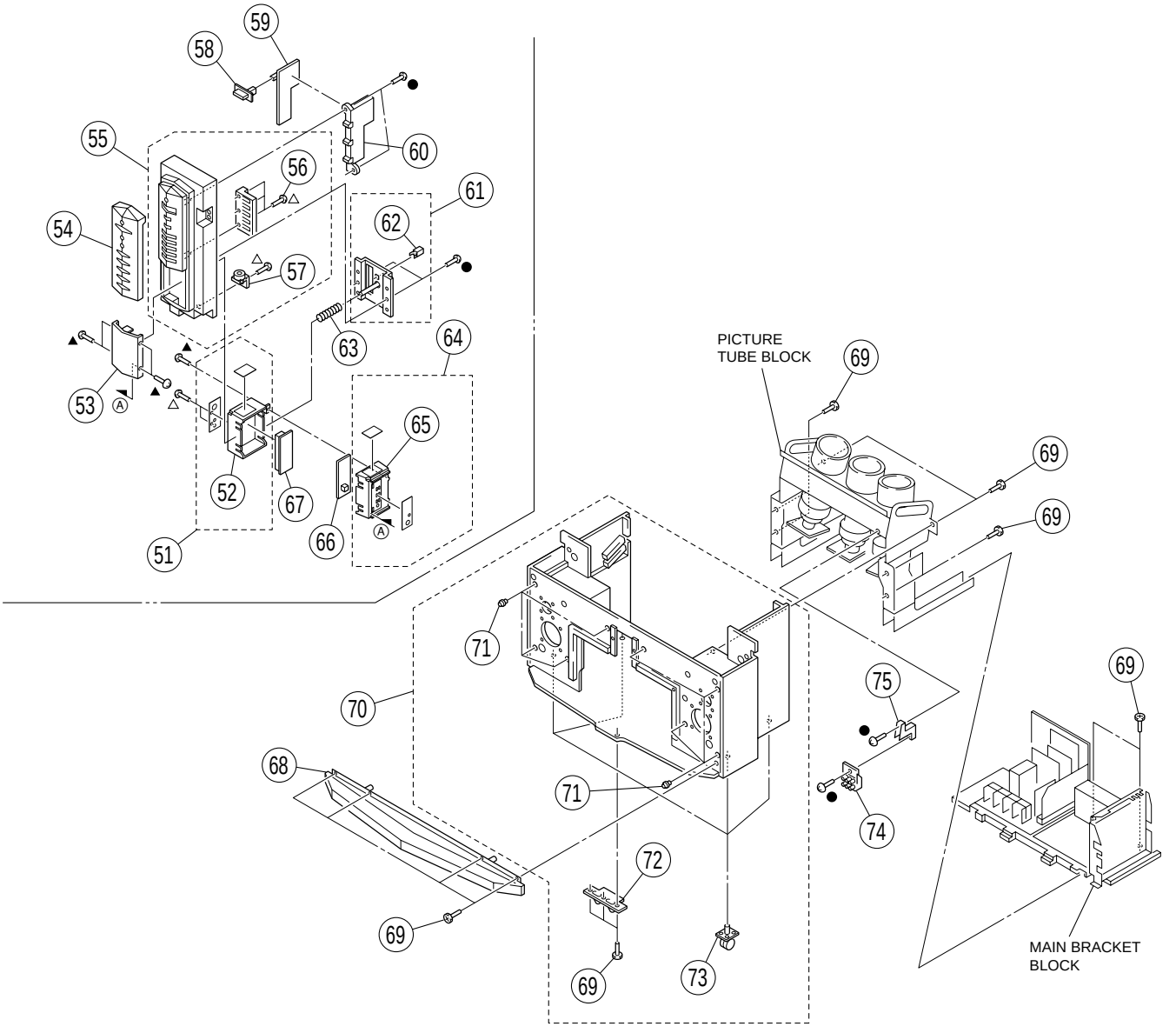


REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4200-771-1	BEZNET ASSY	
2	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	
3	4-084-650-11	SCREEN (48), CONTRAST	
4	4-075-440-11	PLATE (48L), DIFFUSION	
5	4-075-504-11	PLATE (48F), DIFFUSION	
6	*4-205-155-01	COVER, SENSOR	
7	1-528-864-11	BATTERY, SOLAR	
8	*4-066-132-01	HOLDER, SENSOR	
9	*4-076-698-11	HOLDER, SCREEN	
10	*4-076-698-01	HOLDER, SCREEN	
12	*4-075-234-01	HOLDER (TOP), MIRROR	
13	*4-076-705-01	HOLDER (SL), MIRROR	
14	4-206-446-01	MIRROR	
15	*4-206-451-01	COVER PAINTED, MIRROR	
16	*4-076-706-01	HOLDER (SR), MIRROR	
17	*4-206-453-01	BOARD, REAR (48)	
18	1-529-643-11	SPEAKER (13 CM)	
19	1-529-403-11	SPEAKER (6.6 CM)	
20	X-4200-773-1	GRILLE ASSY, SPEAKER	

7-2. CONTROL PANEL AND CABINET BLOCK (KP-48)

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

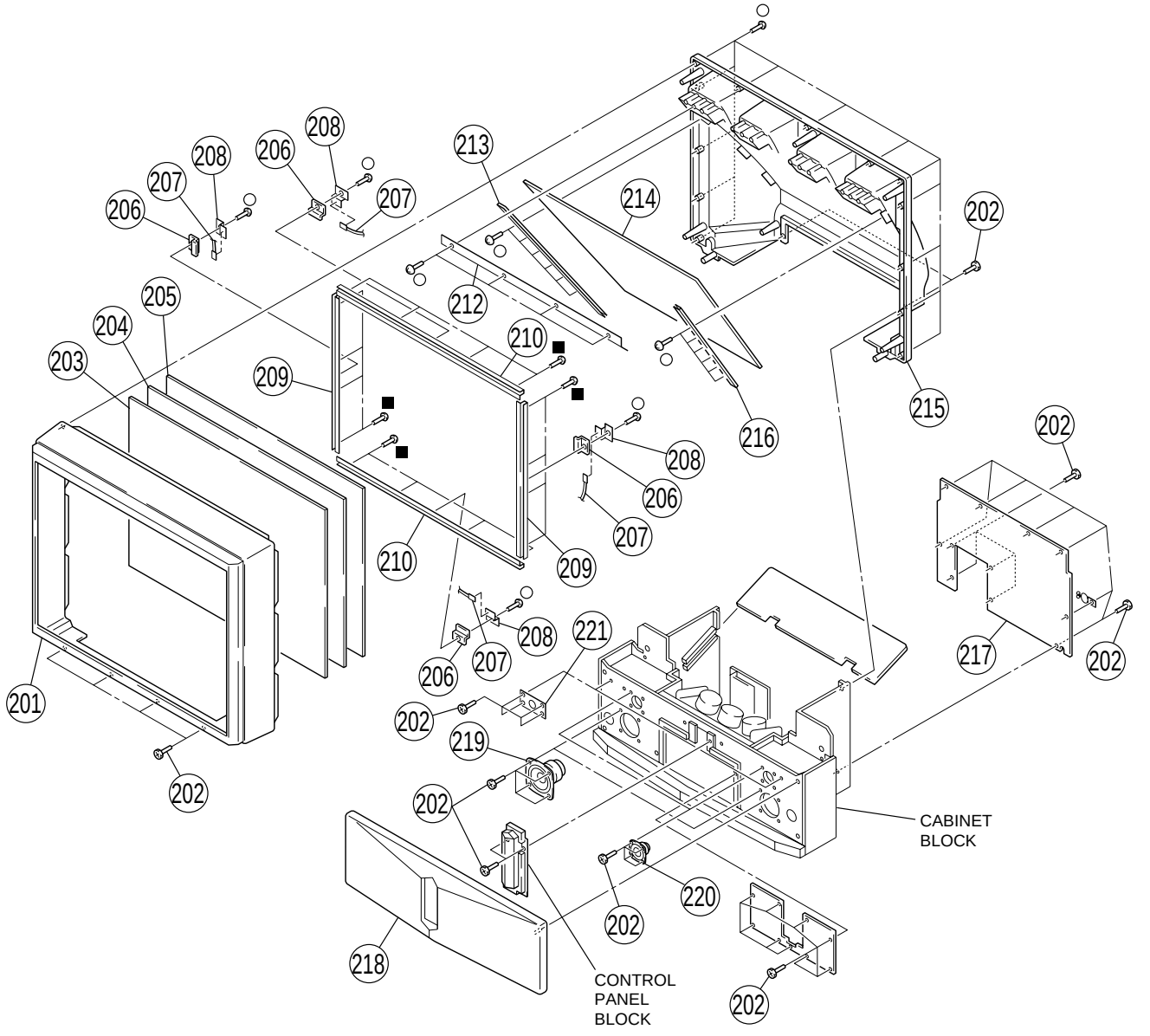
▲ : 7-685-534-19 +BVTP 2.6X8
△ : 7-685-648-79 +BVTP 3X12
● : 7-685-663-71 +BVTP 4X16



REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4037-626-2	TRAY (L) ASSY	52
52	4-072-001-03	TRAY (L)	
53	4-071-999-31	PANEL (T)	
54	4-072-007-31	PANEL (C)	
55	X-4200-783-1	PANEL ASSY, CONTROL	56, 57
56	4-071-997-11	BUTTON, MULTI	
57	4-919-393-01	DAMPER	
58	4-071-995-11	BUTTON, POWER	
59	* A-1372-757-A	H1 BOARD, COMPLETE	
60	* 4-071-998-02	BRACKET (HA)	
61	X-4037-221-2	HOLDER ASSY, TRAY	62
62	4-047-464-01	CATCHER, PUSH	
63	4-075-242-01	SPRING (T)	
64	X-4037-625-2	TRAY (R) ASSY	65
65	4-072-000-12	TRAY (R)	
66	* A-1372-758-A	H2 BOARD, COMPLETE	
67	* A-1372-759-A	H3 BOARD, COMPLETE	
68	* 4-206-444-01	SKIRT PAINTED, FRONT	
69	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	
70	* X-4200-770-1	CABINET (48) ASSY	69, 71-73
71	4-063-421-02	LATCH (K)	
72	4-075-874-01	FOOT, PLASTIC	
73	4-075-244-01	CASTER (DIA. 30)	
74	⚠ 1-223-925-71	RESISTOR ASSY (HIGH-VOLTAGE) (FOCUS PACK)	
75	* 4-054-825-01	BRACKET, FOCUS PACK	

7-3. SCREEN AND COVER BLOCK (KP-61)

■ : 7-685-661-79 +BVTP 4X12
○ : 7-685-663-79 +BVTP 4X16

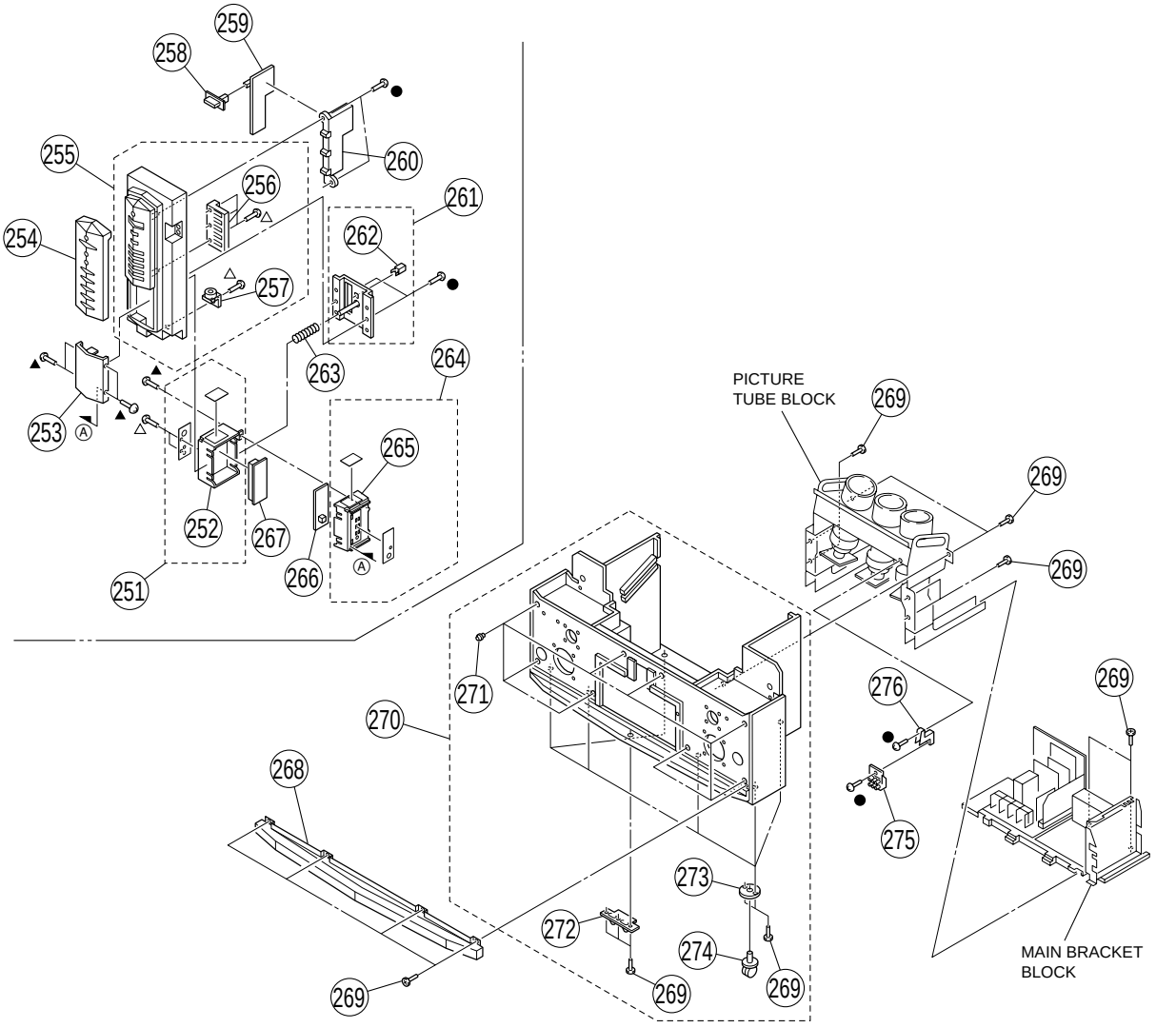


REF.NO.	PART NO.	DESCRIPTION	REMARK
201	X-4200-785-1	BEZNET (61) ASSY	
202	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	
203	4-084-652-11	SCREEN (61), CONTRAST	
204	4-070-283-11	PLATE (L), DIFFUSION	
205	4-084-704-11	PLATE (FV), DIFFUSION	
206	* 4-205-155-01	COVER, SENSOR	
207	1-528-864-11	BATTERY, SOLAR	
208	* 4-066-132-01	HOLDER, SENSOR	
209	4-072-006-01	HOLDER (V61), SCREEN	
210	4-072-005-01	HOLDER (H61), SCREEN	
212	4-075-234-11	HOLDER (TOP), MIRROR	
213	* 4-069-689-01	HOLDER (L), MIRROR	
214	4-070-922-01	MIRROR, REFLECTION	
215	* X-4200-786-1	COVER (61), ASSY MIRROR	
216	* 4-069-690-01	HOLDER (R), MIRROR	
217	* 4-075-248-02	BOARD (61), REAR	
218	X-4200-787-1	GRILLE (61), ASSY SPEAKER	
219	1-529-759-11	SPEAKER (16 CM)	
220	1-529-758-11	SPEAKER (8 CM)	
221	1-529-757-11	SPEAKER (2.7 CM)	

7-4. CONTROL PANEL AND CABINET BLOCK (KP-61)

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

▲ : 7-685-534-19 +BTP 2.6X8
△ : 7-685-648-79 +BVTP 3X12
● : 7-685-663-71 +BVTP 4X16

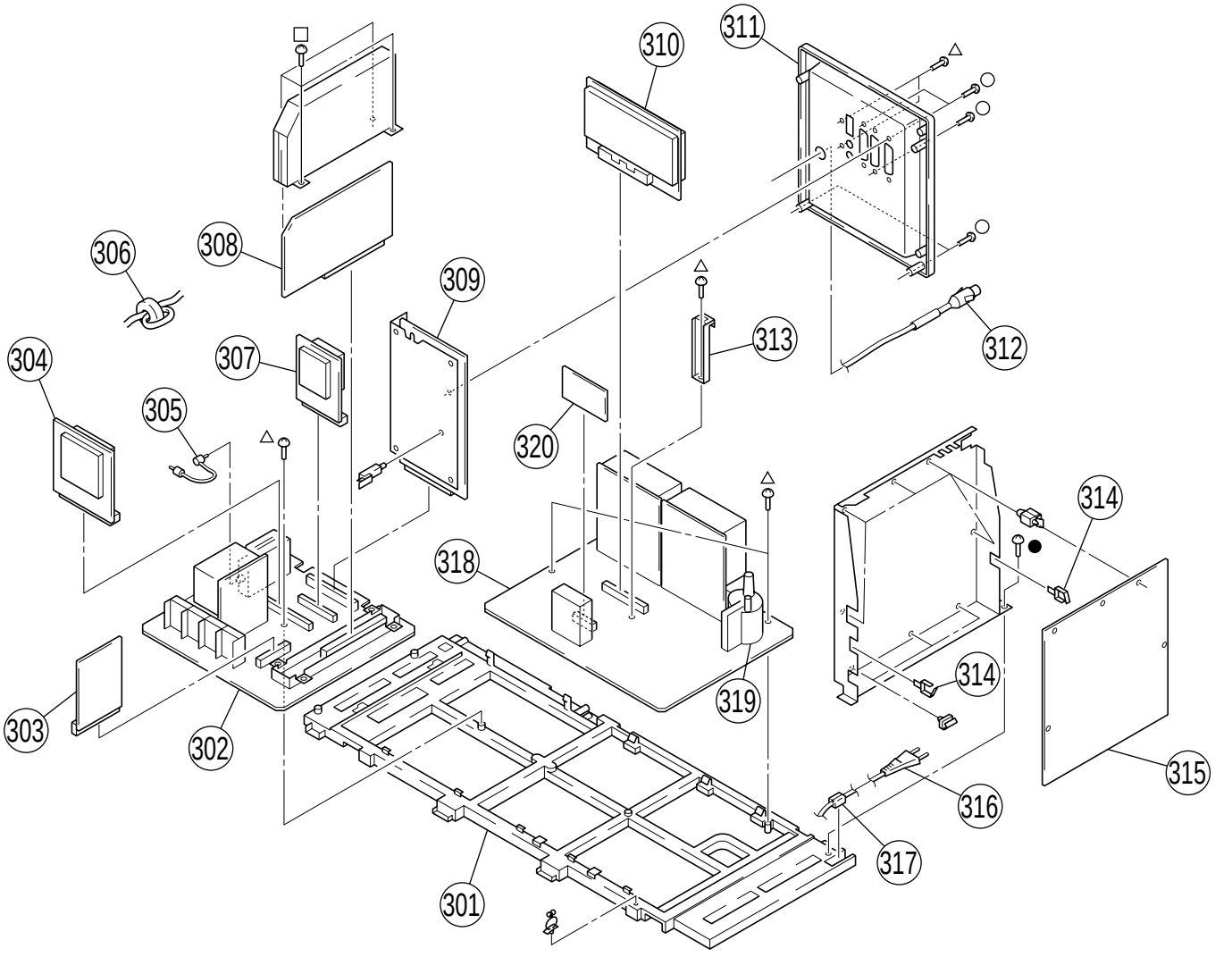


REF.NO.	PART NO.	DESCRIPTION	REMARK
251	X-4037-626-2	TRAY (L) ASSY	252
252	4-072-001-03	TRAY (L)	
253	4-071-999-31	PANEL (T)	
254	4-072-007-31	PANEL (C)	
255	X-4200-783-1	PANEL ASSY, CONTROL	256, 257
256	4-071-997-11	BUTTON, MULTI	
257	4-919-393-01	DAMPER	
258	4-071-995-11	BUTTON, POWER	
259	* A-1372-757-A	H1 BOARD, COMPLETE	
260	* 4-071-998-02	BRACKET (HA)	
261	X-4037-221-2	HOLDER ASSY, TRAY	262
262	4-047-464-01	CATCHER, PUSH	
263	4-075-242-01	SPRING (T)	
264	X-4037-625-2	TRAY (R) ASSY	265
265	4-072-000-12	TRAY (R)	
266	* A-1372-758-A	H2 BOARD, COMPLETE	
267	* A-1372-759-A	H3 BOARD, COMPLETE	
268	4-206-508-01	SKIRT PAINTED, FRONT	
269	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	
270	* X-4200-784-1	CABINET (61) ASSY	269, 271-273
271	4-063-421-02	LATCH (K)	
272	4-075-874-01	FOOT, PLASTIC	
273	4-030-850-01	SOCKET, CASTER	
274	4-075-244-01	CASTER (30 DIA.)	
275	⚠ 1-223-925-71	RESISTOR ASSY (HIGH-VOLTAGE) (FOCUS PACK)	
276	* 4-054-825-01	BRACKET, FOCUS PACK	

7-5. MAIN BRACKET BLOCK

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

△ : 7-685-648-79 +BVTP 3X12
● : 7-685-663-71 +BVTP 4X16
○ : 7-685-663-79 +BVTP 4X16
□ : 7-685-872-09 +BVTT 3X8

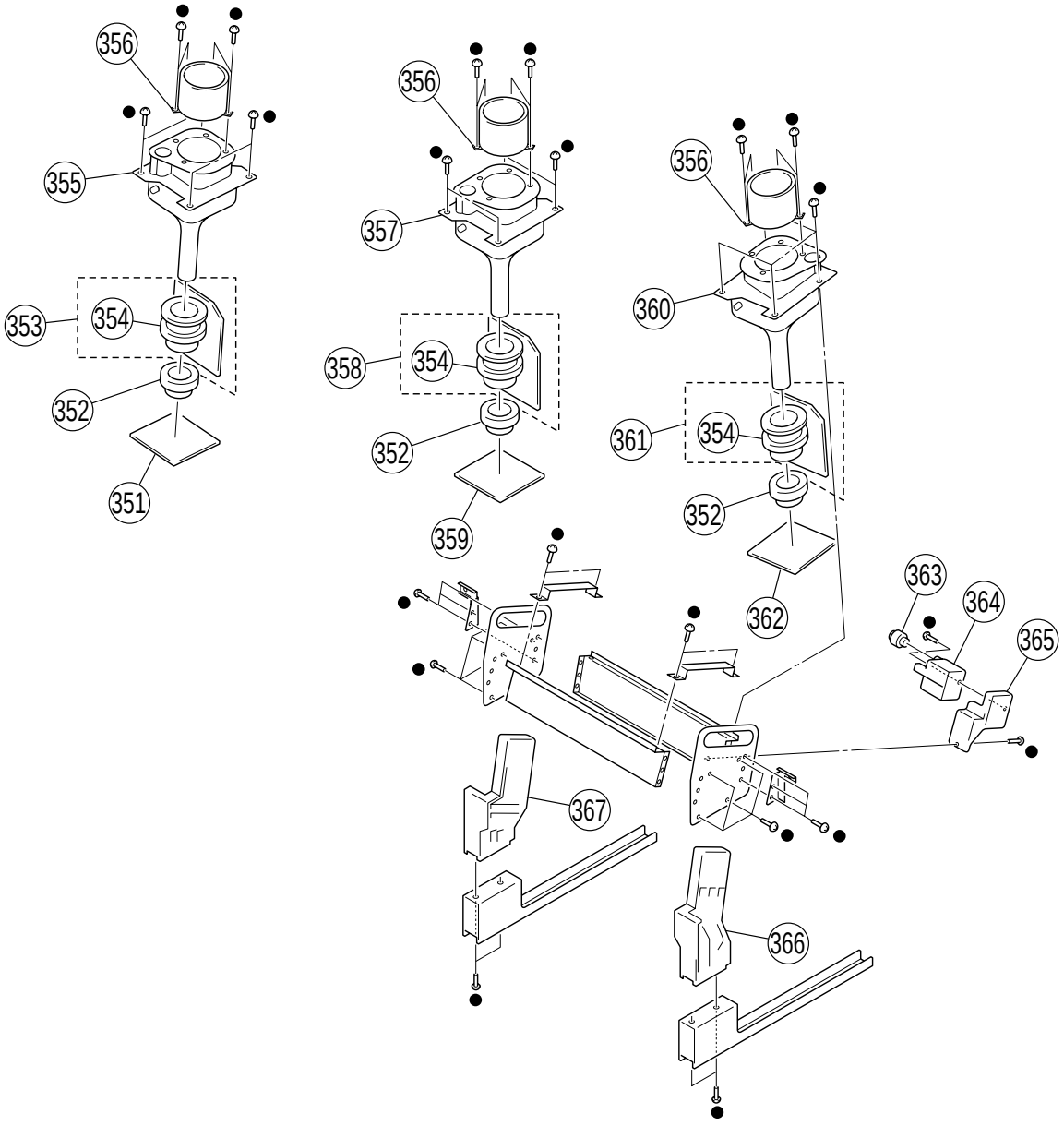


REF.NO.	PART NO.	DESCRIPTION	REMARK
301	*4-062-537-01	BRACKET, MAIN	
302	*A-1299-119-A	A BOARD, COMPLETE	
303	*A-1346-906-A	E BOARD, COMPLETE	
304	*A-1306-599-A	M BOARD, COMPLETE	
305	*1-555-110-00	CABLE, PIN	
306	1-543-982-11	CORE, FERRITE	
307	*A-1394-969-A	S BOARD, COMPLETE	
308	*A-1620-144-A	B3 BOARD, COMPLETE	
309	*A-1394-970-A	J BOARD, COMPLETE	
310	*A-1136-077-A	BD BOARD, COMPLETE	
311	4-075-243-03	TERMINAL BOARD	
312	1-790-082-11	CABLE, RF	
313	*3-657-516-11	SUPPORT, PRINTED CIRCUIT BOARD	
314	*4-316-015-00	HOLDER, WIRE	
315	*A-1316-512-A	G BOARD, COMPLETE	
316	⚠1-765-286-11	CORD, POWER	
317	4-022-115-00	HOLDER, AC CORD	
318	*A-1346-907-A	D BOARD, COMPLETE	319, 320 (KP-48)
318	*A-1346-909-A	D BOARD, COMPLETE	319, 320 (KP-61)
319	⚠1-453-335-11	TRANSFORMER ASSY, FLYBACK	NX-4010//M3P4 (KP-48)
319	⚠1-453-354-11	TRANSFORMER ASSY, FLYBACK	NX-4010//M3Q4 (KP-61)
320	*A-1343-788-A	DS BOARD, COMPLETE	

7-6. PICTURE TUBE BLOCK

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

● : 7-685-663-71 +BVTP 4X16



REF.NO.	PART NO.	DESCRIPTION	REMARK
351	* A-1332-020-A	CR BOARD, COMPLETE	
352	⚠ 1-452-790-41	NECK ASSY (NA-295)	
353	* A-1390-999-A	ZR BOARD, COMPLETE	354
354	⚠ 1-451-465-21	DEFLECTION YOKE	
355	⚠ 8-733-572-35	PICTURE TUBE 07MXC3 (R) (NEW GUN) (KP-48)	
355	⚠ 8-733-573-35	PICTURE TUBE 07MXC4 (R) (NEW GUN) (KP-61)	
356	4-040-131-21	LENS (LINNIT POINT 6) (KP-61)	
356	4-056-258-11	LENS (DELTA 78) (48PS2)	
357	⚠ A-1501-273-A	SEAL (G) ASSY, MECHANICAL	
358	* A-1391-000-A	ZG BOARD, COMPLETE	354
359	* A-1332-021-A	CG BOARD, COMPLETE	
360	⚠ 8-733-575-15	PICTURE TUBE 07MAC3 (B) (C/D CPL) (KP-48)	
360	⚠ 8-733-576-15	PICTURE TUBE 07MAC4 (B) (C/D CPL) (KP-61)	
361	* A-1391-001-A	ZB BOARD, COMPLETE	354
362	* A-1332-022-A	CB BOARD, COMPLETE	
363	4-373-137-01	CAP (Z), RUBBER	
364	⚠ 8-598-955-13	BLOCK ASSY, HIGH-VOLTAGE	
365	* 4-063-176-01	HOLDER, HVR	
366	* 4-066-135-01	STAY (R), SIDE	
367	* 4-066-134-01	STAY (L), SIDE	

SECTION 8
ELECTRICAL PARTS LIST

BD

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
  PF : μμF
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1136-077-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C2601	1-126-947-11	ELECT	47μF	20%	25V
C2602	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C2603	1-126-947-11	ELECT	47μF	20%	25V
C2604	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2607	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V
C2608	1-126-947-11	ELECT	47μF	20%	25V
C2609	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2610	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2611	1-126-947-11	ELECT	47μF	20%	25V
C2612	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2613	1-126-947-11	ELECT	47μF	20%	25V
C2615	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2616	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2617	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2618	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2619	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V
C2620	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2621	1-126-947-11	ELECT	47μF	20%	25V
C2622	1-126-947-11	ELECT	47μF	20%	25V
C2623	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2624	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C2625	1-126-947-11	ELECT	47μF	20%	25V
C2626	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C2627	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2628	1-126-947-11	ELECT	47μF	20%	25V
C2631	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V
C2633	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C2635	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2636	1-126-947-11	ELECT	47μF	20%	25V
C2637	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C2639	1-126-947-11	ELECT	47μF	20%	25V
C2640	1-126-947-11	ELECT	47μF	20%	25V
C2641	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2643	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2644	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V
C2645	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2647	1-126-947-11	ELECT	47μF	20%	25V
C2648	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2649	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2650	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2651	1-126-947-11	ELECT	47μF	20%	25V
C2652	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2655	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V
C2656	1-126-947-11	ELECT	47μF	20%	25V
C2658	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2659	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2660	1-126-947-11	ELECT	47μF	20%	25V
C2661	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C2662	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2663	1-126-947-11	ELECT	47μF	20%	25V
C2666	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2667	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V
C2668	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2670	1-126-947-11	ELECT	47μF	20%	25V
C2673	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2674	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2675	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2678	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V
C2679	1-126-947-11	ELECT	47μF	20%	25V
C2680	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2681	1-126-947-11	ELECT	47μF	20%	25V
C2683	1-126-947-11	ELECT	47μF	20%	25V
C2685	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2686	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V
C2689	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2690	1-126-967-11	ELECT	47μF	20%	50V
C2691	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2692	1-126-967-11	ELECT	47μF	20%	50V
C2693	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2694	1-126-947-11	ELECT	47μF	20%	25V
C2695	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C2696	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2697	1-126-947-11	ELECT	47μF	20%	25V
C2698	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2699	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2700	1-163-001-11	CERAMIC CHIP	220pF	10%	50V
C2701	1-164-346-11	CERAMIC CHIP	1μF	16V	
C2705	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V
C2706	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C2707	1-163-038-91	CERAMIC CHIP	0.1μF		25V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C2708	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2709	1-126-947-11	ELECT	47µF	20%	25V
C2710	1-126-961-11	ELECT	2.2µF	20%	50V
C2711	1-126-961-11	ELECT	2.2µF	20%	50V
C2713	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2714	1-126-947-11	ELECT	47µF	20%	25V
C2715	1-164-690-91	CERAMIC CHIP	0.0022µF	5%	50V
C2716	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2717	1-126-947-11	ELECT	47µF	20%	25V
C2718	1-164-346-11	CERAMIC CHIP	1µF	16V	
C2719	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2720	1-126-947-11	ELECT	47µF	20%	25V
C2721	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C2724	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V
C2725	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2726	1-126-964-11	ELECT	10µF	20%	50V
C2727	1-164-346-11	CERAMIC CHIP	1µF	16V	
C2728	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C2729	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C2730	1-126-947-11	ELECT	47µF	20%	25V
C2731	1-164-346-11	CERAMIC CHIP	1µF	16V	
C2733	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2737	1-164-690-91	CERAMIC CHIP	0.0022µF	5%	50V
C2738	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2739	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2740	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2741	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
C2742	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C2744	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2745	1-126-947-11	ELECT	47µF	20%	25V
C2746	1-126-947-11	ELECT	47µF	20%	25V
C2747	1-126-947-11	ELECT	47µF	20%	25V
C2748	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C2749	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2753	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2754	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2755	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2756	1-126-947-11	ELECT	47µF	20%	25V
C2757	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2758	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2759	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2760	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C2761	1-163-263-11	CERAMIC CHIP	330pF	5%	50V
C2762	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C2763	1-126-947-11	ELECT	47µF	20%	16V
C2764	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2765	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C2766	1-163-016-00	CERAMIC CHIP	0.0039µF	10%	50V
C2767	1-163-016-00	CERAMIC CHIP	0.0039µF	10%	50V
C2768	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2769	1-126-947-11	ELECT	47µF	20%	16V
C2770	1-163-263-11	CERAMIC CHIP	330pF	5%	50V
C2771	1-163-016-00	CERAMIC CHIP	0.0039µF	10%	50V
C2772	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2773	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2774	1-163-016-00	CERAMIC CHIP	0.0039µF	10%	50V
C2775	1-126-947-11	ELECT	47µF	20%	16V
C2776	1-126-947-11	ELECT	47µF	20%	16V
C2777	1-163-263-11	CERAMIC CHIP	330pF	5%	50V
C2778	1-163-263-11	CERAMIC CHIP	330pF	5%	50V
C2779	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C2780	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C2781	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C2782	1-163-038-91	CERAMIC CHIP	0.1µF		25V

< CONNECTOR >

CN2601 *	1-564-522-11	PLUG, CONNECTOR 7P	
CN2602	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
CN2603 *	1-564-511-11	PLUG, CONNECTOR 8P	
CN2604	1-695-915-11	TAB (CONTACT)	

< DIODE >

D2601	8-719-988-61	DIODE	1SS355TE-17
D2602	8-719-988-61	DIODE	1SS355TE-17
D2603	8-719-988-61	DIODE	1SS355TE-17
D2604	8-719-988-61	DIODE	1SS355TE-17
D2605	8-719-069-54	DIODE	UDZSTE-175.1B
D2606	8-719-988-61	DIODE	1SS355TE-17
D2607	8-719-083-82	DIODE	UDZS-TE17-12B
D2608	8-719-069-54	DIODE	UDZSTE-175.1B
D2609	8-719-988-61	DIODE	1SS355TE-17
D2610	8-719-988-61	DIODE	1SS355TE-17
D2611	8-719-988-61	DIODE	1SS355TE-17
D2612	8-719-069-54	DIODE	UDZSTE-175.1B
D2613	8-719-083-82	DIODE	UDZS-TE17-12B
D2614	8-719-069-54	DIODE	UDZSTE-175.1B
D2615	8-719-988-61	DIODE	1SS355TE-17
D2616	8-719-069-54	DIODE	UDZSTE-175.1B
D2617	8-719-083-82	DIODE	UDZS-TE17-12B
D2618	8-719-069-54	DIODE	UDZSTE-175.1B
D2619	8-719-988-61	DIODE	1SS355TE-17
D2620	8-719-083-82	DIODE	UDZS-TE17-12B
D2621	8-719-069-54	DIODE	UDZSTE-175.1B
D2622	8-719-069-54	DIODE	UDZSTE-175.1B
D2623	8-719-988-61	DIODE	1SS355TE-17
D2624	8-719-988-61	DIODE	1SS355TE-17

< FERRITE BEAD >

FB2601	1-216-295-91	SHORT	0
FB2602	1-216-295-91	SHORT	0
FB2603	1-216-295-91	SHORT	0
FB2604	1-216-295-91	SHORT	0

< IC >

IC2601	8-759-106-02	IC	µPC4570G2
IC2602	8-759-998-22	IC	PCM56P
IC2603	8-759-106-02	IC	µPC4570G2
IC2604	8-759-998-22	IC	PCM56P

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC2605	8-759-589-66	IC CM0006CF	
IC2606	8-759-485-79	IC TC7SET08FU(TE85L	
IC2607	8-759-673-51	IC MM74HC32SJX	
IC2608	8-759-106-02	IC µPC4570G2	
IC2609	8-759-998-22	IC PCM56P	
IC2610	8-759-106-02	IC µPC4570G2	
IC2611	8-759-488-29	IC TC7W66FU(TE12R)	
IC2612	8-759-669-75	IC TLC2932IPWR	
IC2613	8-759-925-90	IC SN74HC74ANS	
IC2614	8-759-998-22	IC PCM56P	
IC2615	8-759-485-79	IC TC7SET08FU(TE85L	
IC2616	8-759-106-02	IC µPC4570G2	
IC2617	8-759-352-91	IC PST9143NL	
IC2618	8-759-038-15	IC MC74HC4538AF	
IC2619	8-752-914-81	IC CXP86324-027Q	
IC2620	8-759-367-69	IC MC74HC74AFEL	
IC2621	8-759-682-41	IC M24C32-WMN6T(A)	
IC2622	8-759-106-02	IC µPC4570G2	
IC2623	8-759-998-22	IC PCM56P	
IC2625	8-759-998-22	IC PCM56P	
IC2626	8-759-394-80	IC NJM2058M-TE2	
IC2627	8-759-394-80	IC NJM2058M-TE2	
		< CHIP CONDUCTOR >	
JR2605	1-216-295-91	SHORT 0	
		< COIL >	
L2601	1-414-234-22	FERRITE 0µH	
L2602	1-414-234-22	FERRITE 0µH	
L2605	1-469-555-21	INDUCTOR 10µH	
L2606	1-414-234-22	FERRITE 0µH	
L2608	1-469-555-21	INDUCTOR 10µH	
L2609	1-414-234-22	FERRITE 0µH	
L2610	1-414-234-22	FERRITE 0µH	
L2611	1-412-029-11	INDUCTOR 10µH	
L2612	1-414-234-22	FERRITE 0µH	
L2615	1-414-234-22	FERRITE 0µH	
L2616	1-414-234-22	FERRITE 0µH	
L2617	1-469-555-21	INDUCTOR 10µH	
L2618	1-469-555-21	INDUCTOR 10µH	
L2619	1-414-234-22	FERRITE 0µH	
L2621	1-414-234-22	FERRITE 0µH	
L2622	1-414-234-22	FERRITE 0µH	
L2625	1-414-234-22	FERRITE 0µH	
L2626	1-469-555-21	INDUCTOR 10µH	
L2627	1-414-234-22	FERRITE 0µH	
L2628	1-469-555-21	INDUCTOR 10µH	
L2629	1-414-234-22	FERRITE 0µH	
L2633	1-412-029-11	INDUCTOR 10µH	
L2634	1-414-234-22	FERRITE 0µH	
L2635	1-414-234-22	FERRITE 0µH	
L2636	1-469-555-21	INDUCTOR 10µH	
L2637	1-414-234-22	FERRITE 0µH	
L2638	1-414-234-22	FERRITE 0µH	
L2639	1-469-555-21	INDUCTOR 10µH	
L2640	1-414-234-22	FERRITE 0µH	
L2643	1-414-234-22	FERRITE 0µH	
L2645	1-469-555-21	INDUCTOR 10µH	
L2646	1-414-234-22	FERRITE 0µH	
L2647	1-414-234-22	FERRITE 0µH	
L2648	1-469-555-21	INDUCTOR 10µH	
L2649	1-412-029-11	INDUCTOR 10µH	
L2652	1-414-234-22	FERRITE 0µH	
L2653	1-469-555-21	INDUCTOR 10µH	
L2654	1-414-234-22	FERRITE 0µH	
L2656	1-469-555-21	INDUCTOR 10µH	
L2657	1-414-234-22	FERRITE 0µH	
L2658	1-414-234-22	FERRITE 0µH	
L2659	1-414-234-22	FERRITE 0µH	
L2661	1-414-234-22	FERRITE 0µH	
L2663	1-414-234-22	FERRITE 0µH	
L2664	1-414-234-22	FERRITE 0µH	
L2665	1-216-295-91	SHORT 0	
L2666	1-216-295-91	SHORT 0	
L2667	1-216-295-91	SHORT 0	
L2668	1-216-295-91	SHORT 0	
L2669	1-216-295-91	SHORT 0	
L2670	1-216-295-91	SHORT 0	
		< TRANSISTOR >	
Q2601	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2602	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q2603	1-801-806-11	TRANSISTOR TR DTC144EKA	
Q2604	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q2605	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2606	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2607	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q2608	1-801-806-11	TRANSISTOR TR DTC144EKA	
Q2610	1-801-806-11	TRANSISTOR TR DTC144EKA	
Q2611	1-801-806-11	TRANSISTOR TR DTC144EKA	
Q2612	1-801-806-11	TRANSISTOR TR DTC144EKA	
Q2613	1-801-806-11	TRANSISTOR TR DTC144EKA	
Q2614	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		< RESISTOR >	
R2601	1-208-782-11	METAL CHIP 1K 0.5% 1/10W	
R2602	1-208-799-11	METAL CHIP 5.1K 0.5% 1/10W	
R2603	1-208-782-11	METAL CHIP 1K 0.5% 1/10W	
R2606	1-208-799-11	METAL CHIP 5.1K 0.5% 1/10W	
R2607	1-216-295-91	SHORT 0	
R2608	1-216-295-91	SHORT 0	
R2609	1-216-025-11	RES-CHIP 100 5% 1/10W	
R2610	1-216-025-11	RES-CHIP 100 5% 1/10W	
R2611	1-216-025-11	RES-CHIP 100 5% 1/10W	
R2612	1-216-025-11	RES-CHIP 100 5% 1/10W	
R2613	1-216-025-11	RES-CHIP 100 5% 1/10W	
R2621	1-216-025-11	RES-CHIP 100 5% 1/10W	
R2622	1-216-025-11	RES-CHIP 100 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION			REMARK
R2623	1-216-025-11	RES-CHIP	100	5%	1/10W
R2624	1-216-081-00	RES-CHIP	22K	5%	1/10W
R2625	1-216-025-11	RES-CHIP	100	5%	1/10W
R2628	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2629	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2630	1-208-816-11	METAL CHIP	27K	0.5%	1/10W
R2631	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2632	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2634	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2635	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R2636	1-216-295-91	SHORT	0		
R2637	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R2638	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2639	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R2640	1-216-033-00	RES-CHIP	220	5%	1/10W
R2641	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2643	1-216-033-00	RES-CHIP	220	5%	1/10W
R2644	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R2645	1-216-033-00	RES-CHIP	220	5%	1/10W
R2646	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2647	1-216-025-11	RES-CHIP	100	5%	1/10W
R2648	1-216-295-91	SHORT	0		
R2649	1-216-295-91	SHORT	0		
R2650	1-216-025-11	RES-CHIP	100	5%	1/10W
R2651	1-216-025-11	RES-CHIP	100	5%	1/10W
R2652	1-216-025-11	RES-CHIP	100	5%	1/10W
R2653	1-216-025-11	RES-CHIP	100	5%	1/10W
R2654	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R2655	1-216-025-11	RES-CHIP	100	5%	1/10W
R2657	1-216-025-11	RES-CHIP	100	5%	1/10W
R2658	1-216-025-11	RES-CHIP	100	5%	1/10W
R2659	1-216-025-11	RES-CHIP	100	5%	1/10W
R2661	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2662	1-216-025-11	RES-CHIP	100	5%	1/10W
R2663	1-216-025-11	RES-CHIP	100	5%	1/10W
R2664	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2665	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2666	1-216-033-00	RES-CHIP	220	5%	1/10W
R2667	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2668	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2669	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2671	1-216-025-11	RES-CHIP	100	5%	1/10W
R2672	1-216-025-11	RES-CHIP	100	5%	1/10W
R2673	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2674	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2675	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2676	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2677	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2678	1-216-025-11	RES-CHIP	100	5%	1/10W
R2679	1-216-025-11	RES-CHIP	100	5%	1/10W
R2680	1-216-033-00	RES-CHIP	220	5%	1/10W
R2681	1-216-025-11	RES-CHIP	100	5%	1/10W
R2682	1-216-025-11	RES-CHIP	100	5%	1/10W
R2683	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2684	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2685	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2688	1-216-037-00	RES-CHIP	330	5%	1/10W
R2689	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2690	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2691	1-216-295-91	SHORT	0		
R2692	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2693	1-216-295-91	SHORT	0		
R2694	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2695	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2698	1-216-037-00	RES-CHIP	330	5%	1/10W
R2699	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2701	1-216-041-00	RES-CHIP	470	5%	1/10W
R2703	1-216-037-00	RES-CHIP	330	5%	1/10W
R2704	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2705	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2706	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2707	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2708	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2709	1-216-025-11	RES-CHIP	100	5%	1/10W
R2710	1-216-025-11	RES-CHIP	100	5%	1/10W
R2712	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2714	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2715	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2716	1-216-025-11	RES-CHIP	100	5%	1/10W
R2717	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2719	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2720	1-216-295-91	SHORT	0		
R2721	1-216-295-91	SHORT	0		
R2723	1-208-793-11	METAL CHIP	3K	0.5%	1/10W
R2725	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R2726	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R2728	1-216-025-11	RES-CHIP	100	5%	1/10W
R2729	1-216-033-00	RES-CHIP	220	5%	1/10W
R2730	1-216-025-11	RES-CHIP	100	5%	1/10W
R2731	1-208-850-11	METAL CHIP	680K	0.5%	1/10W
R2732	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2733	1-216-025-11	RES-CHIP	100	5%	1/10W
R2734	1-216-025-11	RES-CHIP	100	5%	1/10W
R2735	1-216-025-11	RES-CHIP	100	5%	1/10W
R2736	1-216-025-11	RES-CHIP	100	5%	1/10W
R2737	1-216-025-11	RES-CHIP	100	5%	1/10W
R2738	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2739	1-216-025-11	RES-CHIP	100	5%	1/10W
R2740	1-216-025-11	RES-CHIP	100	5%	1/10W
R2741	1-216-033-00	RES-CHIP	220	5%	1/10W
R2742	1-216-025-11	RES-CHIP	100	5%	1/10W
R2743	1-216-025-11	RES-CHIP	100	5%	1/10W
R2744	1-216-025-11	RES-CHIP	100	5%	1/10W
R2745	1-216-025-11	RES-CHIP	100	5%	1/10W
R2746	1-208-850-11	METAL CHIP	680K	0.5%	1/10W
R2747	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2750	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2751	1-216-025-11	RES-CHIP	100	5%	1/10W
R2752	1-216-025-11	RES-CHIP	100	5%	1/10W
R2753	1-216-025-11	RES-CHIP	100	5%	1/10W
R2755	1-216-025-11	RES-CHIP	100	5%	1/10W
R2756	1-216-025-11	RES-CHIP	100	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R2758	1-216-025-11	RES-CHIP	100	5%	1/10W
R2759	1-216-033-00	RES-CHIP	220	5%	1/10W
R2760	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2761	1-216-295-91	SHORT	0		
R2762	1-216-295-91	SHORT	0		
R2763	1-216-025-11	RES-CHIP	100	5%	1/10W
R2764	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2765	1-216-025-11	RES-CHIP	100	5%	1/10W
R2766	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2767	1-216-033-00	RES-CHIP	220	5%	1/10W
R2768	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2769	1-216-025-11	RES-CHIP	100	5%	1/10W
R2771	1-216-033-00	RES-CHIP	220	5%	1/10W
R2773	1-216-025-11	RES-CHIP	100	5%	1/10W
R2774	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2775	1-216-025-11	RES-CHIP	100	5%	1/10W
R2777	1-216-025-11	RES-CHIP	100	5%	1/10W
R2778	1-216-025-11	RES-CHIP	100	5%	1/10W
R2779	1-216-025-11	RES-CHIP	100	5%	1/10W
R2781	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2782	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2783	1-216-295-91	SHORT	0		
R2784	1-216-025-11	RES-CHIP	100	5%	1/10W
R2785	1-216-041-00	RES-CHIP	470	5%	1/10W
R2786	1-216-041-00	RES-CHIP	470	5%	1/10W
R2787	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2789	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2790	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R2791	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2792	1-216-033-00	RES-CHIP	220	5%	1/10W
R2793	1-216-033-00	RES-CHIP	220	5%	1/10W
R2794	1-216-025-11	RES-CHIP	100	5%	1/10W
R2796	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2797	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2799	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R2800	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2803	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2804	1-216-295-91	SHORT	0		
R2805	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2806	1-216-025-11	RES-CHIP	100	5%	1/10W
R2807	1-216-295-91	SHORT	0		
R2808	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2809	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2810	1-216-025-11	RES-CHIP	100	5%	1/10W
R2811	1-216-025-11	RES-CHIP	100	5%	1/10W
R2812	1-216-025-11	RES-CHIP	100	5%	1/10W
R2813	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2814	1-216-025-11	RES-CHIP	100	5%	1/10W
R2815	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2818	1-216-025-11	RES-CHIP	100	5%	1/10W
R2821	1-216-025-11	RES-CHIP	100	5%	1/10W
R2823	1-216-033-00	RES-CHIP	220	5%	1/10W
R2824	1-216-033-00	RES-CHIP	220	5%	1/10W
R2825	1-216-033-00	RES-CHIP	220	5%	1/10W
R2826	1-216-033-00	RES-CHIP	220	5%	1/10W
R2827	1-216-033-00	RES-CHIP	220	5%	1/10W
R2831	1-216-025-11	RES-CHIP	100	5%	1/10W
R2832	1-216-025-11	RES-CHIP	100	5%	1/10W
R2834	1-216-025-11	RES-CHIP	100	5%	1/10W
R2835	1-216-025-11	RES-CHIP	100	5%	1/10W
R2836	1-216-118-00	RES-CHIP	750K	5%	1/10W
R2837	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2838	1-216-122-11	RES-CHIP	1.1M	5%	1/10W
R2839	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2840	1-216-025-11	RES-CHIP	100	5%	1/10W
R2841	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2842	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2843	1-216-295-91	SHORT	0		
R2844	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2845	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2846	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2847	1-216-025-11	RES-CHIP	100	5%	1/10W
R2848	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2849	1-216-025-11	RES-CHIP	100	5%	1/10W
R2850	1-216-124-11	RES-CHIP	1.3M	5%	1/10W
R2851	1-216-124-11	RES-CHIP	1.3M	5%	1/10W
R2852	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2853	1-216-073-91	RES-CHIP	10K	5%	1/10W

< CRYSTAL >

X2701	1-767-925-21	VIBRATOR, CRYSTAL (12MHz)			

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*	A-1299-119-A	A BOARD, COMPLETE			
		**********			
	4-202-373-01	SPRING, IC			
	4-363-414-11	SPACER, MICA			
	4-382-854-11	SCREW (M3X10), P, SW (+)			

< CAPACITOR >

C1101	1-126-767-11	ELECT	1000µF	20%	16V
C1102	1-126-964-11	ELECT	10µF	20%	50V
C1103	1-126-964-11	ELECT	10µF	20%	50V
C1104	1-126-964-11	ELECT	10µF	20%	50V
C1105	1-126-041-11	ELECT	2200µF	20%	35V
C1106	1-136-165-00	FILM	0.1µF	5%	50V
C1107	1-136-165-00	FILM	0.1µF	5%	50V
C1108	1-126-947-11	ELECT	47µF	20%	16V
C1109	1-126-947-11	ELECT	47µF	20%	16V
C1110	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1111	1-126-041-11	ELECT	2200µF	20%	35V
C1114	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1115	1-126-959-11	ELECT	0.47µF	20%	50V
C1116	1-126-933-11	ELECT	100µF	20%	16V
C1219	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1220	1-107-715-11	ELECT	22µF	20%	16V
C1221	1-137-150-11	MYLAR	0.01µF	5%	50V
C1222	1-126-961-11	ELECT	2.2µF	20%	50V
C1223	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1301	1-126-934-11	ELECT	220µF	20%	10V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C1302	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1304	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1305	1-126-934-11	ELECT	220µF	20%	10V
C1306	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1307	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1308	1-126-933-11	ELECT	100µF	20%	16V
C1401	1-130-777-00	MYLAR	0.1µF	5%	63V
C1402	1-130-777-00	MYLAR	0.1µF	5%	63V
C1403	1-130-777-00	MYLAR	0.1µF	5%	63V
C1404	1-130-777-00	MYLAR	0.1µF	5%	63V
C1405	1-126-947-11	ELECT	47µF	20%	16V
C1409	1-136-165-00	FILM	0.1µF	5%	50V
C1410	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1411	1-126-933-11	ELECT	100µF	20%	16V
C1412	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1413	1-126-967-11	ELECT	47µF	20%	50V
C1414	1-126-967-11	ELECT	47µF	20%	50V
C1415	1-126-967-11	ELECT	47µF	20%	50V
C1416	1-126-967-11	ELECT	47µF	20%	50V
C1417	1-126-967-11	ELECT	47µF	20%	50V
C1418	1-126-967-11	ELECT	47µF	20%	50V
C1419	1-164-222-91	CERAMIC CHIP	0.22µF		25V
C1420	1-164-222-91	CERAMIC CHIP	0.22µF		25V
C1421	1-164-222-91	CERAMIC CHIP	0.22µF		25V
C1422	1-164-222-91	CERAMIC CHIP	0.22µF		25V
C1423	1-164-222-91	CERAMIC CHIP	0.22µF		25V
C1424	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1426	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1427	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C1428	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C1429	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C1430	1-164-346-11	CERAMIC CHIP	1µF	16V	
C1601	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1602	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1603	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1604	1-126-933-11	ELECT	100µF	20%	16V
C1605	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1606	1-126-933-11	ELECT	100µF	20%	16V
C1607	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1608	1-126-933-11	ELECT	100µF	20%	16V
C1610	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1611	1-126-916-11	ELECT	1000µF	20%	6.3V
C1612	1-126-935-11	ELECT	470µF	20%	10V
C1615	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1616	1-126-916-11	ELECT	1000µF	20%	6.3V
C1617	1-126-935-11	ELECT	470µF	20%	10V
C1619	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V

< CONNECTOR >

CN1001	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P
CN1102 *	1-564-507-11	PLUG, CONNECTOR 4P
CN1201	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P
CN1301 *	1-564-508-11	PLUG, CONNECTOR 5P
CN1302 *	1-764-333-11	PLUG, CONNECTOR 10P
CN1404	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P
CN1501	1-785-802-11	PIN, CONNECTOR (WITH PWB) 20P
CN1502	1-785-802-11	PIN, CONNECTOR (WITH PWB) 20P
CN1503 *	1-564-511-11	PLUG, CONNECTOR 8P
CN1504 *	1-564-508-11	PLUG, CONNECTOR 5P
CN1603 *	1-764-333-11	PLUG, CONNECTOR 10P
CN1605	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P
CN1606 *	1-564-508-11	PLUG, CONNECTOR 5P
CN1661	1-695-915-11	TAB (CONTACT)
CN1665	1-695-915-11	TAB (CONTACT)
CN1666	1-695-915-11	TAB (CONTACT)
CN1801	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P
CN1901	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P

< COMPOSITION CIRCUIT BLOCK >

CP1301	1-251-658-11	SPLITTER RF

< DIODE >

D1101	8-719-988-61	DIODE 1SS355TE-17
D1102	8-719-988-61	DIODE 1SS355TE-17
D1103	8-719-988-61	DIODE 1SS355TE-17
D1104	8-719-988-61	DIODE 1SS355TE-17
D1105	8-719-914-43	DIODE DAN202K
D1106	8-719-914-43	DIODE DAN202K
D1107	8-719-402-92	DIODE MA3220M-TX
D1108	8-719-988-61	DIODE 1SS355TE-17
D1109	8-719-988-61	DIODE 1SS355TE-17
D1110	8-719-402-92	DIODE MA3220M-TX
D1111	8-719-402-92	DIODE MA3220M-TX
D1112	8-719-402-92	DIODE MA3220M-TX
D1201	8-719-914-43	DIODE DAN202K
D1202	8-719-914-43	DIODE DAN202K
D1203	8-719-988-61	DIODE 1SS355TE-17
D1204	8-719-914-43	DIODE DAN202K
D1205	8-719-988-61	DIODE 1SS355TE-17
D1206	8-719-988-61	DIODE 1SS355TE-17
D1401	8-719-069-56	DIODE UDZSTE-176.2B
D1402	8-719-069-56	DIODE UDZSTE-176.2B
D1403	8-719-069-56	DIODE UDZSTE-176.2B
D1404	8-719-069-56	DIODE UDZSTE-176.2B
D1405	8-719-978-33	DIODE DTZ-TT11-6.8B
D1406	8-719-914-43	DIODE DAN202K
D1410	8-719-402-92	DIODE MA3220M-TX
D1411	8-719-402-92	DIODE MA3220M-TX
D1421	8-719-083-58	DIODE UDZSTE-173.9B

< FILTER >

FL1401	1-236-071-11	ENCAPSULATED COMPONENT

< IC >

IC1101	8-759-190-89	IC TDA7265
IC1401	8-752-072-94	IC CXA1875AM-T4

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1402	8-752-067-36	IC CXA1815S	
IC1601	8-759-069-28	IC PQ05RF11	
IC1602	8-759-054-12	IC PQ09RA1	
IC1603	8-759-520-49	IC PQ30RV21	
IC1604	8-759-520-49	IC PQ30RV21	
IC1605	8-759-069-28	IC PQ05RF11	
		< CHIP CONDUCTOR >	
JR1001	1-216-295-91	SHORT	0
JR1002	1-216-295-91	SHORT	0
JR1003	1-216-295-91	SHORT	0
JR1004	1-216-295-91	SHORT	0
JR1005	1-216-295-91	SHORT	0
JR1007	1-216-295-91	SHORT	0
JR1008	1-216-295-91	SHORT	0
JR1015	1-216-295-91	SHORT	0
JR1017	1-216-295-91	SHORT	0
JR1018	1-216-295-91	SHORT	0
JR1019	1-216-295-91	SHORT	0
JR1021	1-216-295-91	SHORT	0
JR1023	1-216-295-91	SHORT	0
JR1024	1-216-295-91	SHORT	0
JR1025	1-216-295-91	SHORT	0
JR1027	1-216-295-91	SHORT	0
JR1028	1-216-295-91	SHORT	0
JR1029	1-216-295-91	SHORT	0
JR1030	1-216-295-91	SHORT	0
JR1031	1-216-295-91	SHORT	0
JR1033	1-216-295-91	SHORT	0
JR1601	1-216-295-91	SHORT	0
		< COIL >	
L1301	1-408-603-31	INDUCTOR	10µH
L1302	1-408-603-31	INDUCTOR	10µH
L1303	1-408-603-31	INDUCTOR	10µH
L1401	1-412-004-31	INDUCTOR	6.8µH
L1402	1-412-004-31	INDUCTOR	6.8µH
L1403	1-412-004-31	INDUCTOR	6.8µH
		< TRANSISTOR >	
Q1101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1102	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1103	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1104	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1105	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1106	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1203	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1204	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1205	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1206	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1207	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1301	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1303	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1304	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1305	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1306	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1307	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1308	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1401	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1402	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1404	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1406	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1408	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1409	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1410	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1411	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1412	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1413	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1421	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1422	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		< RESISTOR >	
R1102	1-216-097-11	RES-CHIP 100K	5% 1/10W
R1103	1-216-025-11	RES-CHIP 100	5% 1/10W
R1104	1-216-097-11	RES-CHIP 100K	5% 1/10W
R1105	1-216-089-91	RES-CHIP 47K	5% 1/10W
R1106	1-216-089-91	RES-CHIP 47K	5% 1/10W
R1107	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
R1108	1-216-073-91	RES-CHIP 10K	5% 1/10W
R1109	1-216-041-00	RES-CHIP 470	5% 1/10W
R1110	1-216-073-91	RES-CHIP 10K	5% 1/10W
R1111	1-216-041-00	RES-CHIP 470	5% 1/10W
R1112	1-216-295-91	SHORT 0	
R1113	1-216-049-11	RES-CHIP 1K	5% 1/10W
R1114	1-216-089-91	RES-CHIP 47K	5% 1/10W
R1115	1-216-089-91	RES-CHIP 47K	5% 1/10W
R1116	1-216-295-91	SHORT 0	
R1117	1-216-049-11	RES-CHIP 1K	5% 1/10W
R1118	1-216-079-00	RES-CHIP 18K	5% 1/10W
R1119	1-216-079-00	RES-CHIP 18K	5% 1/10W
R1120	1-216-043-91	RES-CHIP 560	5% 1/10W
R1121	1-216-043-91	RES-CHIP 560	5% 1/10W
R1122	1-216-357-00	METAL OXIDE 4.7	5% 1W
R1123	1-249-381-11	CARBON 1	5% 1/4W
R1124	1-216-357-00	METAL OXIDE 4.7	5% 1W
R1125	1-216-089-91	RES-CHIP 47K	5% 1/10W
R1127	1-216-073-91	RES-CHIP 10K	5% 1/10W
R1128	1-249-417-11	CARBON 1K	5% 1/4W
R1131	1-216-089-91	RES-CHIP 47K	5% 1/10W
R1201	1-216-081-00	RES-CHIP 22K	5% 1/10W
R1211	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R1212	1-216-089-91	RES-CHIP 47K	5% 1/10W
R1213	1-216-089-91	RES-CHIP 47K	5% 1/10W
R1214	1-216-073-91	RES-CHIP 10K	5% 1/10W
R1215	1-216-089-91	RES-CHIP 47K	5% 1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1216	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1217	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1218	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1219	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1220	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1221	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1222	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1223	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1224	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1231	1-216-295-91	SHORT	0		
R1232	1-216-295-91	SHORT	0		
R1233	1-216-295-91	SHORT	0		
R1234	1-216-295-91	SHORT	0		
R1301	1-216-041-00	RES-CHIP	470	5%	1/10W
R1303	1-216-025-11	RES-CHIP	100	5%	1/10W
R1304	1-216-025-11	RES-CHIP	100	5%	1/10W
R1305	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1306	1-216-025-11	RES-CHIP	100	5%	1/10W
R1307	1-216-041-00	RES-CHIP	470	5%	1/10W
R1308	1-216-075-00	RES-CHIP	12K	5%	1/10W
R1309	1-216-041-00	RES-CHIP	470	5%	1/10W
R1310	1-216-041-00	RES-CHIP	470	5%	1/10W
R1311	1-216-001-00	RES-CHIP	10	5%	1/10W
R1312	1-216-025-11	RES-CHIP	100	5%	1/10W
R1313	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R1314	1-216-041-00	RES-CHIP	470	5%	1/10W
R1315	1-216-041-00	RES-CHIP	470	5%	1/10W
R1317	1-216-041-00	RES-CHIP	470	5%	1/10W
R1318	1-216-043-91	RES-CHIP	560	5%	1/10W
R1319	1-216-025-11	RES-CHIP	100	5%	1/10W
R1320	1-216-041-00	RES-CHIP	470	5%	1/10W
R1321	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1322	1-216-025-11	RES-CHIP	100	5%	1/10W
R1323	1-216-025-11	RES-CHIP	100	5%	1/10W
R1324	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1325	1-216-041-00	RES-CHIP	470	5%	1/10W
R1326	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1327	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1328	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1329	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1330	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1331	1-216-043-91	RES-CHIP	560	5%	1/10W
R1332	1-216-295-91	SHORT	0		
R1333	1-216-295-91	SHORT	0		
R1401	1-216-029-00	RES-CHIP	150	5%	1/10W
R1402	1-216-039-00	RES-CHIP	390	5%	1/10W
R1403	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1404	1-216-025-11	RES-CHIP	100	5%	1/10W
R1405	1-216-025-11	RES-CHIP	100	5%	1/10W
R1406	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1407	1-216-025-11	RES-CHIP	100	5%	1/10W
R1408	1-216-025-11	RES-CHIP	100	5%	1/10W
R1409	1-216-025-11	RES-CHIP	100	5%	1/10W
R1410	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1411	1-216-025-11	RES-CHIP	100	5%	1/10W
R1412	1-216-025-11	RES-CHIP	100	5%	1/10W
R1413	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1414	1-216-025-11	RES-CHIP	100	5%	1/10W
R1416	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1417	1-216-017-91	RES-CHIP	47	5%	1/10W
R1418	1-216-041-00	RES-CHIP	470	5%	1/10W
R1420	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1422	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1423	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1424	1-216-017-91	RES-CHIP	47	5%	1/10W
R1425	1-216-041-00	RES-CHIP	470	5%	1/10W
R1426	1-216-093-91	RES-CHIP	68K	5%	1/10W
R1427	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1428	1-208-817-11	METAL CHIP	30K	0.5%	1/10W
R1429	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R1430	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1431	1-216-017-91	RES-CHIP	47	5%	1/10W
R1432	1-216-041-00	RES-CHIP	470	5%	1/10W
R1442	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1443	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1444	1-216-025-11	RES-CHIP	100	5%	1/10W
R1445	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1446	1-216-025-11	RES-CHIP	100	5%	1/10W
R1447	1-216-025-11	RES-CHIP	100	5%	1/10W
R1448	1-216-025-11	RES-CHIP	100	5%	1/10W
R1449	1-216-025-11	RES-CHIP	100	5%	1/10W
R1450	1-216-017-91	RES-CHIP	47	5%	1/10W
R1451	1-216-017-91	RES-CHIP	47	5%	1/10W
R1452	1-216-295-91	SHORT	0		
R1453	1-216-295-91	SHORT	0		
R1454	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1456	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1457	1-216-025-11	RES-CHIP	100	5%	1/10W
R1458	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1459	1-216-025-11	RES-CHIP	100	5%	1/10W
R1460	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1461	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1462	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1463	1-216-017-91	RES-CHIP	47	5%	1/10W
R1464	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1465	1-216-017-91	RES-CHIP	47	5%	1/10W
R1466	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1467	1-216-017-91	RES-CHIP	47	5%	1/10W
R1468	1-216-041-00	RES-CHIP	470	5%	1/10W
R1469	1-216-358-11	METAL OXIDE	5.6	5%	1W
R1608	1-208-778-11	METAL CHIP	680	0.5%	1/10W
R1610	1-208-772-11	METAL CHIP	390	0.5%	1/10W
R1611	1-208-772-11	METAL CHIP	390	0.5%	1/10W
R1612	1-216-025-11	RES-CHIP	100	5%	1/10W
R1613	1-208-772-11	METAL CHIP	390	0.5%	1/10W
R1614	1-216-073-91	RES-CHIP	10K	5%	1/10W

< RELAY >

RY1101	1-755-028-11	RELAY
RY1102	1-755-028-11	RELAY

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
		< TUNER >	
TU1301 ⚠	1-693-340-23	TUNER/VIF	
TU1302 ⚠	1-693-340-23	TUNER/VIF	
		**********	
		* A-1306-599-A M BOARD, COMPLETE	
		**********	
		< CAPACITOR >	
C9100	1-115-340-11	CERAMIC CHIP 0.22µF 10% 25V	
C9101	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C9102	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C9104	1-126-933-11	ELECT 100µF 20% 16V	
C9105	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C9106	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C9108	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C9109	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C9110	1-110-501-11	CERAMIC CHIP 0.33µF 10% 16V	
C9111	1-164-344-11	CERAMIC CHIP 0.068µF 10% 25V	
C9112	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C9113	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C9114	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C9115	1-115-340-11	CERAMIC CHIP 0.22µF 10% 25V	
C9116	1-110-501-11	CERAMIC CHIP 0.33µF 10% 16V	
C9117	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C9118	1-126-947-11	ELECT 47µF 20% 16V	
C9119	1-163-259-91	CERAMIC CHIP 220pF 5% 50V	
C9121	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C9122	1-115-340-11	CERAMIC CHIP 0.22µF 10% 25V	
C9123	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C9124	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C9125	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C9126	1-163-239-11	CERAMIC CHIP 33pF 5% 50V	
C9127	1-163-239-11	CERAMIC CHIP 33pF 5% 50V	
C9128	1-163-239-11	CERAMIC CHIP 33pF 5% 50V	
C9129	1-163-239-11	CERAMIC CHIP 33pF 5% 50V	
C9130	1-163-239-11	CERAMIC CHIP 33pF 5% 50V	
C9131	1-163-239-11	CERAMIC CHIP 33pF 5% 50V	
C9132	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C9133	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C9134	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C9135	1-115-340-11	CERAMIC CHIP 0.22µF 10% 25V	
C9400	1-115-340-11	CERAMIC CHIP 0.22µF 10% 25V	
C9501	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C9503	1-126-964-11	ELECT 10µF 20% 50V	
C9504	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C9505	1-126-933-11	ELECT 100µF 20% 16V	
C9506	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C9507	1-115-340-11	CERAMIC CHIP 0.22µF 10% 25V	
C9508	1-115-340-11	CERAMIC CHIP 0.22µF 10% 25V	
C9509	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C9510	1-115-340-11	CERAMIC CHIP 0.22µF 10% 25V	
C9511	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C9512	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C9513	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C9514	1-163-235-11	CERAMIC CHIP 22pF 5% 50V	
C9515	1-163-235-11	CERAMIC CHIP 22pF 5% 50V	
C9516	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C9517	1-163-009-91	CERAMIC CHIP 0.001µF 10% 50V	
C9518	1-115-340-11	CERAMIC CHIP 0.22µF 10% 25V	
C9519	1-126-964-11	ELECT 10µF 20% 50V	
		< CONNECTOR >	
CN9001	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
		< DIODE >	
D9100	8-719-988-61	DIODE 1SS355TE-17	
D9101	8-719-988-61	DIODE 1SS355TE-17	
D9102	8-719-988-61	DIODE 1SS355TE-17	
D9103	8-719-988-61	DIODE 1SS355TE-17	
D9104	8-719-978-33	DIODE DTZ-TT11-6.8B	
D9105	8-719-988-61	DIODE 1SS355TE-17	
D9107	8-719-025-31	DIODE 02CZ5.6-TE85L	
D9108	8-719-914-44	DIODE DAP202K	
D9109	8-719-105-91	DIODE RD5.6M-B2	
D9110	8-719-914-43	DIODE DAN202K	
D9111	8-719-105-91	DIODE RD5.6M-B2	
		< FILTER >	
FL9101	1-236-071-11	ENCAPSULATED COMPONENT	
FL9500	1-236-071-11	ENCAPSULATED COMPONENT	
FL9501	1-236-071-11	ENCAPSULATED COMPONENT	
		< IC >	
IC9100	8-759-988-13	IC LM393PS	
IC9103	8-759-488-29	IC TC7W66FU(TE12R)	
IC9104	8-759-259-18	IC MB3793-42PNF	
IC9105	8-759-686-50	IC SAB-C161PI-LM	
IC9107	8-759-826-53	IC IS62C1024L-70Q	
IC9108	8-759-682-41	IC M24C32-WMN6T(A)	
IC9109	8-759-829-48	IC M27C800-100K1-RE202	
IC9110	8-759-009-22	IC MC14094BF	
IC9111	8-759-242-72	IC TC7W00F	
IC9112	8-759-523-02	IC TC74HC4053AFT(EL)	
IC9400	8-759-692-18	IC M29F040B-70K1T	
IC9500	8-759-243-62	IC TC74AC32F	
IC9501	8-759-666-17	IC MSM5116400D-60S	
IC9502	8-759-665-84	IC SDA5275-3PC02-2	
		< COIL >	
L9400	1-412-029-11	INDUCTOR 10µH	
L9401	1-412-029-11	INDUCTOR 10µH	

REF.NO.	PART NO.	DESCRIPTION			REMARK
	< TRANSISTOR >				
Q9100	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q9101	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q9102	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q9103	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q9104	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q9105	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q9106	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q9110	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q9500	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q9501	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q9502	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q9503	1-801-806-11	TRANSISTOR DTC144EKA			
Q9504	1-801-806-11	TRANSISTOR DTC144EKA			
	< RESISTOR >				
R9100	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9101	1-216-033-00	RES-CHIP	220	5%	1/10W
R9102	1-216-033-00	RES-CHIP	220	5%	1/10W
R9103	1-216-025-11	RES-CHIP	100	5%	1/10W
R9104	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9105	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9107	1-216-025-11	RES-CHIP	100	5%	1/10W
R9108	1-216-025-11	RES-CHIP	100	5%	1/10W
R9109	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9110	1-216-081-00	RES-CHIP	22K	5%	1/10W
R9111	1-216-025-11	RES-CHIP	100	5%	1/10W
R9112	1-216-025-11	RES-CHIP	100	5%	1/10W
R9113	1-216-033-00	RES-CHIP	220	5%	1/10W
R9114	1-216-083-00	RES-CHIP	27K	5%	1/10W
R9115	1-216-081-00	RES-CHIP	22K	5%	1/10W
R9116	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9117	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9119	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9120	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9121	1-216-017-91	RES-CHIP	47	5%	1/10W
R9122	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9123	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9124	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9127	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9129	1-216-025-11	RES-CHIP	100	5%	1/10W
R9131	1-216-025-11	RES-CHIP	100	5%	1/10W
R9132	1-216-017-91	RES-CHIP	47	5%	1/10W
R9133	1-216-017-91	RES-CHIP	47	5%	1/10W
R9134	1-216-025-11	RES-CHIP	100	5%	1/10W
R9135	1-216-025-11	RES-CHIP	100	5%	1/10W
R9136	1-216-025-11	RES-CHIP	100	5%	1/10W
R9138	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9140	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9141	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9142	1-216-041-00	RES-CHIP	470	5%	1/10W
R9143	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9144	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9145	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9146	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9147	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9149	1-216-025-11	RES-CHIP	100	5%	1/10W
R9150	1-216-025-11	RES-CHIP	100	5%	1/10W
R9151	1-216-025-11	RES-CHIP	100	5%	1/10W
R9153	1-216-025-11	RES-CHIP	100	5%	1/10W
R9159	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9161	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9162	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9164	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9166	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9168	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9169	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9172	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9173	1-216-295-91	SHORT	0		
R9174	1-216-025-11	RES-CHIP	100	5%	1/10W
R9175	1-216-025-11	RES-CHIP	100	5%	1/10W
R9176	1-216-025-11	RES-CHIP	100	5%	1/10W
R9177	1-216-025-11	RES-CHIP	100	5%	1/10W
R9178	1-216-025-11	RES-CHIP	100	5%	1/10W
R9184	1-216-025-11	RES-CHIP	100	5%	1/10W
R9185	1-216-025-11	RES-CHIP	100	5%	1/10W
R9186	1-216-025-11	RES-CHIP	100	5%	1/10W
R9187	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R9188	1-216-025-11	RES-CHIP	100	5%	1/10W
R9189	1-216-025-11	RES-CHIP	100	5%	1/10W
R9191	1-216-025-11	RES-CHIP	100	5%	1/10W
R9192	1-216-025-11	RES-CHIP	100	5%	1/10W
R9193	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9194	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9195	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9196	1-216-081-00	RES-CHIP	22K	5%	1/10W
R9197	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9198	1-216-039-00	RES-CHIP	390	5%	1/10W
R9199	1-216-039-00	RES-CHIP	390	5%	1/10W
R9200	1-216-017-91	RES-CHIP	47	5%	1/10W
R9201	1-216-039-00	RES-CHIP	390	5%	1/10W
R9202	1-216-017-91	RES-CHIP	47	5%	1/10W
R9203	1-216-017-91	RES-CHIP	47	5%	1/10W
R9501	1-216-017-91	RES-CHIP	47	5%	1/10W
R9502	1-216-295-91	SHORT	0		
R9503	1-216-295-91	SHORT	0		
R9504	1-216-041-00	RES-CHIP	470	5%	1/10W
R9505	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R9506	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9507	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9509	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9510	1-216-017-91	RES-CHIP	47	5%	1/10W
R9511	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9512	1-216-017-91	RES-CHIP	47	5%	1/10W
R9513	1-216-017-91	RES-CHIP	47	5%	1/10W
R9514	1-216-017-91	RES-CHIP	47	5%	1/10W
R9515	1-216-295-91	SHORT	0		
R9516	1-216-295-91	SHORT	0		
R9517	1-216-295-91	SHORT	0		
R9518	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9519	1-216-039-00	RES-CHIP	390	5%	1/10W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

M G

REF.NO.	PART NO.	DESCRIPTION			REMARK
R9520	1-216-039-00	RES-CHIP	390	5%	1/10W
R9521	1-216-039-00	RES-CHIP	390	5%	1/10W
R9522	1-216-295-91	SHORT	0		
R9523	1-216-295-91	SHORT	0		
R9524	1-216-295-91	SHORT	0		
R9525	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9526	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9527	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9528	1-216-025-11	RES-CHIP	100	5%	1/10W
R9529	1-216-025-11	RES-CHIP	100	5%	1/10W
R9530	1-216-025-11	RES-CHIP	100	5%	1/10W
R9532	1-216-295-91	SHORT	0		
R9533	1-216-295-91	SHORT	0		
		< NETWORK RESISTOR >			
RB9101	1-239-412-11	NETWORK RESISTOR (CHIP)	100		
		< CRYSTAL >			
X9101	1-781-107-21	VIBRATOR, CERAMIC (16MHz)			
X9500	1-760-551-21	VIBRATOR, CERAMIC (20.480MHz)			
**********					
	* A-1316-512-A	G BOARD, COMPLETE			
		**********			
	* 1-533-725-11	HOLDER, FUSE			
	* 4-374-846-01	COVER, CAPACITOR, CAP TYPE			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		< CAPACITOR >			
C6000	⚠ 1-104-708-51	MYLAR	0.47µF	20%	250V
C6003	⚠ 1-104-706-51	MYLAR	0.22µF	20%	250V
C6009	⚠ 1-104-706-51	MYLAR	0.22µF	20%	250V
C6010	⚠ 1-119-894-51	CERAMIC	2200pF	20%	250V
C6011	⚠ 1-119-894-51	CERAMIC	2200pF	20%	250V
C6013	⚠ 1-161-964-91	CERAMIC	0.0047µF		250V
C6015	⚠ 1-161-964-91	CERAMIC	0.0047µF		250V
C6017	⚠ 1-161-964-51	CERAMIC	0.0047µF		250V
C6018	⚠ 1-161-964-51	CERAMIC	0.0047µF		250V
C6020	1-126-968-11	ELECT	100µF	20%	50V
C6022	1-131-940-11	ELECT	1200µF	20%	250V
C6023	1-131-940-11	ELECT	1200µF	20%	250V
C6024	1-117-227-11	MYLAR	1µF	10%	450V
C6025	1-115-389-11	FILM	0.018µF	3%	800V
C6026	1-125-969-91	CERAMIC	680pF	10%	1KV
C6027	1-115-824-11	ELECT	18µF	20%	50V
C6028	1-104-588-11	FILM	0.0082µF	2.50%	1.25KV
C6029	1-102-106-00	CERAMIC	100pF	10%	50V
C6030	1-136-189-00	MYLAR	0.1µF	10%	250V
C6031	1-125-969-91	CERAMIC	680pF	10%	1KV
C6032	1-115-405-11	FILM	0.039µF	3%	1KV
C6033	1-126-963-11	ELECT	4.7µF	20%	50V
C6034	1-130-029-00	FILM	8200pF	2%	50V
C6035	1-104-665-11	ELECT	100µF	20%	25V
C6036	1-107-906-11	ELECT	10µF	20%	50V
C6037	1-137-150-11	MYLAR	0.01µF	5%	50V
C6038	1-104-588-11	FILM	0.0082µF	2.50%	1.25KV
C6039	1-115-389-11	FILM	0.018µF	3%	800V
C6040	1-117-227-11	MYLAR	1µF	10%	450V
C6041	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C6042	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C6044	1-117-703-11	CERAMIC	0.0047µF	99%	250V
C6100	⚠ 1-161-964-51	CERAMIC	0.0047µF		250V
C6101	1-107-679-91	ELECT	10µF	20%	450V
C6102	⚠ 1-161-964-51	CERAMIC	0.0047µF		250V
C6103	1-163-005-91	CERAMIC CHIP	470pF	10%	50V
C6104	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C6105	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C6106	1-163-005-91	CERAMIC CHIP	470pF	10%	50V
C6107	1-137-605-11	MYLAR	0.01µF	10%	250V
C6109	1-126-965-91	ELECT	22µF	20%	50V
C6110	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C6300	1-101-810-00	CERAMIC	100pF	5%	500V
C6301	1-101-810-00	CERAMIC	100pF	5%	500V
C6302	1-102-114-00	CERAMIC	470pF	10%	50V
C6303	1-102-114-00	CERAMIC	470pF	10%	50V
C6306	1-101-810-00	CERAMIC	100pF	5%	500V
C6307	1-126-941-11	ELECT	470µF	20%	25V
C6308	1-126-937-11	ELECT	4700µF	20%	16V
C6309	1-101-810-00	CERAMIC	100pF	5%	500V
C6310	1-101-810-00	CERAMIC	100pF	5%	500V
C6311	1-104-665-11	ELECT	100µF	20%	25V
C6312	1-104-665-11	ELECT	100µF	20%	25V
C6313	1-126-960-11	ELECT	1µF	20%	50V
C6314	1-128-567-51	ELECT	1000µF	20%	100V
C6315	1-128-567-51	ELECT	1000µF	20%	100V
C6316	1-101-810-00	CERAMIC	100pF	5%	500V
C6317	1-109-954-11	ELECT	0.47µF	20%	160V
C6319	1-101-810-00	CERAMIC	100pF	5%	500V
C6320	1-101-810-00	CERAMIC	100pF	5%	500V
C6321	1-128-549-11	ELECT	3300µF	20%	35V
C6322	1-128-549-11	ELECT	3300µF	20%	35V
C6323	1-128-549-11	ELECT	3300µF	20%	35V
C6324	1-128-549-11	ELECT	3300µF	20%	35V
C6325	1-126-935-11	ELECT	470µF	20%	6.3V
C6327	1-126-968-11	ELECT	100µF	20%	50V
C6328	1-126-968-11	ELECT	100µF	20%	50V
C6329	1-126-943-11	ELECT	2200µF	20%	25V
C6330	1-126-943-11	ELECT	2200µF	20%	25V
C6331	1-107-641-11	ELECT	220µF	20%	160V
C6332	1-104-665-11	ELECT	100µF	20%	25V
C6333	1-104-665-11	ELECT	100µF	20%	25V
C6334	1-126-940-11	ELECT	330µF	20%	25V
C6335	1-126-967-11	ELECT	47µF	20%	50V
C6336	1-101-810-00	CERAMIC	100pF	5%	500V
C6337	1-101-810-00	CERAMIC	100pF	5%	500V
C6338	1-162-117-00	CERAMIC	100pF	10%	500V
C6339	1-104-987-11	MYLAR	0.001µF	10%	200V
C6341	1-137-150-11	MYLAR	0.01µF	5%	50V
C6342	1-136-165-00	FILM	0.1µF	5%	50V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
		< CONNECTOR >	
CN6002	1-695-915-11	TAB (CONTACT)	
CN6004	1-580-843-11	PIN, CONNECTOR (POWER)	
CN6006	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN6007	* 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
CN6300	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN6301	* 1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN6302	* 1-764-333-11	PLUG, CONNECTOR 10P	
CN6303	* 1-764-333-11	PLUG, CONNECTOR 10P	
CN6304	* 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
CN6306	1-695-915-11	TAB (CONTACT)	
CN6307	1-695-915-11	TAB (CONTACT)	
CN6308	1-695-915-11	TAB (CONTACT)	
		< DIODE >	
D6010	8-719-988-61	DIODE 1SS355TE-17	
D6015	⚠ 8-719-510-53	DIODE D4SB60L	
D6017	8-719-063-73	DIODE D1NL20U-TR	
D6019	8-719-510-02	DIODE D1NS4	
D6020	8-719-029-04	DIODE D5L60	
D6021	8-719-110-36	DIODE RD13ES-B2	
D6022	8-719-979-64	DIODE UF4005PKG23	
D6023	8-719-979-64	DIODE UF4005PKG23	
D6100	⚠ 8-719-068-00	DIODE ERC04-06SE	
D6101	8-719-947-69	DIODE MTZJ-T-72-18B	
D6102	8-719-083-83	DIODE UDZS-TE17-15B	
D6103	8-719-988-61	DIODE 1SS355TE-17	
D6104	⚠ 8-719-068-00	DIODE ERC04-06SE	
D6105	8-719-948-45	DIODE ERA22-08	
D6106	⚠ 8-719-068-00	DIODE ERC04-06SE	
D6108	8-719-510-48	DIODE D1N20R	
D6300	8-719-057-96	DIODE D10SC6M-4012	
D6301	8-719-510-12	DIODE D10SC4M	
D6302	8-719-312-47	DIODE RBA-406B	
D6303	8-719-063-73	DIODE D1NL20U-TR	
D6304	8-719-050-18	DIODE D4SBL20U	
D6305	8-719-988-61	DIODE 1SS355TE-17	
D6306	8-719-988-61	DIODE 1SS355TE-17	
D6307	8-719-988-61	DIODE 1SS355TE-17	
D6308	8-719-988-31	DIODE D10SC6MR	
D6309	8-719-057-96	DIODE D10SC6M-4012	
D6310	8-719-052-91	DIODE D4SBS4-F	
D6311	8-719-988-61	DIODE 1SS355TE-17	
D6312	8-719-988-61	DIODE 1SS355TE-17	
D6315	8-719-988-61	DIODE 1SS355TE-17	
D6316	8-719-988-61	DIODE 1SS355TE-17	
D6317	8-719-988-61	DIODE 1SS355TE-17	
D6318	8-719-921-88	DIODE MTZJ-13B	
D6319	8-719-083-60	DIODE UDZSTE-174.7B	
D6320	8-719-083-60	DIODE UDZSTE-174.7B	
D6323	8-719-032-12	DIODE D1NS6	
		< FUSE >	
F6001	⚠ 1-576-232-11	FUSE (H.B.C.) (5A/250V)	
		< FERRITE BEAD >	
FB6002	1-412-911-11	FERRITE 0μH	
FB6103	1-412-911-11	FERRITE 0μH	
FB6301	1-412-911-11	FERRITE 0μH	
FB6302	1-412-911-11	FERRITE 0μH	
FB6303	1-412-911-11	FERRITE 0μH	
FB6304	1-412-911-11	FERRITE 0μH	
FB6305	1-412-911-11	FERRITE 0μH	
FB6306	1-412-911-11	FERRITE 0μH	
FB6309	1-412-911-11	FERRITE 0μH	
FB6310	1-412-911-11	FERRITE 0μH	
		< IC >	
IC6002	8-749-924-35	IC ON3171-R	
IC6004	8-749-016-66	IC MCR5152	
IC6007	8-749-924-35	IC ON3171-R	
IC6301	8-749-012-13	IC DM-58	
IC6302	8-759-663-29	IC MM1476AF(TP)	
IC6303	8-759-198-31	IC μPC1093J-1-T	
IC6304	8-759-908-15	IC TL431CLP	
		< COIL >	
L6303	1-412-525-31	INDUCTOR 10μH	
L6304	1-406-659-11	INDUCTOR 10μH	
L6307	1-412-525-31	INDUCTOR 10μH	
L6308	1-412-525-31	INDUCTOR 10μH	
L6309	1-412-525-31	INDUCTOR 10μH	
L6310	1-412-525-31	INDUCTOR 10μH	
L6311	1-412-525-31	INDUCTOR 10μH	
L6314	1-412-525-31	INDUCTOR 10μH	
L6315	1-412-525-31	INDUCTOR 10μH	
		< IC LINK >	
PS6300	⚠ 1-801-549-21	PROTECTOR, MODULE (4.0A)	
PS6301	⚠ 1-801-549-21	PROTECTOR, MODULE (4.0A)	
PS6302	⚠ 1-801-549-21	PROTECTOR, MODULE (4.0A)	
PS6303	⚠ 1-801-549-21	PROTECTOR, MODULE (4.0A)	
PS6306	⚠ 1-801-550-21	PROTECTOR, MODULE (2.5A)	
PS6307	⚠ 1-801-550-21	PROTECTOR, MODULE (2.5A)	
PS6310	⚠ 1-801-550-21	PROTECTOR, MODULE (2.5A)	
PS6311	⚠ 1-801-550-21	PROTECTOR, MODULE (2.5A)	
		< TRANSISTOR >	
Q6004	8-729-140-93	TRANSISTOR 2SB733-34	
Q6100	8-729-046-40	TRANSISTOR 2SK2663	
Q6102	8-729-023-22	TRANSISTOR 2SD2114K	
Q6300	8-729-023-22	TRANSISTOR 2SD2114K	
Q6301	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

G CR

REF.NO.	PART NO.	DESCRIPTION			REMARK
Q6302	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q6303	8-729-820-82	TRANSISTOR 2SA1208			
Q6304	8-729-026-39	TRANSISTOR 2SA933AS-QT			
		< RESISTOR >			
R6000	1-260-131-11	CARBON	470K	5%	1/2W
R6001	1-260-131-11	CARBON	470K	5%	1/2W
R6002	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6003 ⚠	1-219-759-91	CARBON	1M	5%	1/2W
R6026 ⚠	1-218-265-21	METAL	8.2M	5%	1W
R6035 ⚠	1-205-998-11	CEMENTED	1	5%	10W
R6043	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6049 ⚠	1-205-998-11	CEMENTED	1	5%	10W
R6052	1-249-417-11	CARBON	1K	5%	1/4W
R6053	1-216-660-11	METAL CHIP	2.4K	0.5%	1/10W
R6054	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R6055	1-208-803-11	METAL CHIP	7.5K	0.5%	1/10W
R6056	1-217-625-00	METAL	0.05	10%	2W
R6057	1-215-477-00	METAL	220K	1%	1/4W
R6058	1-215-477-00	METAL	220K	1%	1/4W
R6059	1-215-477-00	METAL	220K	1%	1/4W
R6060	1-219-512-11	CARBON	2.2M	5%	1/2W
R6061 ⚠	1-220-886-11	FUSIBLE	0.1	10%	1W
R6062	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R6065	1-219-512-11	CARBON	2.2M	5%	1/2W
R6067	1-249-397-11	CARBON	22	5%	1/4W
R6068 ⚠	1-205-998-11	CEMENTED	1	5%	10W
R6069 ⚠	1-205-998-11	CEMENTED	1	5%	10W
R6072	1-249-417-11	CARBON	1K	5%	1/4W
R6076	1-249-389-11	CARBON	4.7	5%	1/4W
R6079	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6100	1-260-298-51	CARBON	3.3	5%	1/2W
R6101	1-216-045-00	RES-CHIP	680	5%	1/10W
R6102	1-249-389-11	CARBON	4.7	5%	1/4W
R6103	1-216-009-91	RES-CHIP	22	5%	1/10W
R6104	1-240-205-11	CARBON	22M	5%	1/2W
R6105	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6106	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6107	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6108	1-215-493-00	METAL	1M	1%	1/4W
R6109	1-216-041-00	RES-CHIP	470	5%	1/10W
R6300	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6301	1-249-413-11	CARBON	470	5%	1/4W
R6302	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6304	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6305	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6306	1-216-041-00	RES-CHIP	470	5%	1/10W
R6307	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6308	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6309	1-249-417-11	CARBON	1K	5%	1/4W
R6310	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6311	1-215-477-00	METAL	220K	1%	1/4W
R6312	1-249-417-11	CARBON	1K	5%	1/4W
R6313	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6314	1-216-385-11	METAL OXIDE	0.47	5%	3W
R6316	1-215-477-00	METAL	220K	1%	1/4W
R6317	1-249-417-11	CARBON	1K	5%	1/4W
R6318	1-215-453-00	METAL	22K	1%	1/4W
R6319	1-215-476-00	METAL	200K	1%	1/4W
R6320	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6321	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R6322	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6323	1-216-041-00	RES-CHIP	470	5%	1/10W
R6324	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6325	1-208-819-11	METAL CHIP	36K	0.5%	1/10W
R6326	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R6327	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R6328	1-215-906-11	METAL OXIDE	15	5%	3W
R6329	1-208-807-11	METAL CHIP	11K	0.5%	1/10W
R6333	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6334	1-216-041-00	RES-CHIP	470	5%	1/10W
R6335	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R6336	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
		< RELAY >			
RY6000 ⚠	1-755-352-11	RELAY, AC POWER			
		< TRANSFORMER >			
T6001 ⚠	1-424-436-11	TRANSFORMER, LINE FILTER			
T6002 ⚠	1-424-436-11	TRANSFORMER, LINE FILTER			
T6003	1-431-445-11	TRANSFORMER, CONVERTER (PFT)			
T6004 ⚠	1-435-443-11	TRANSFORMER, CONVERTER (PIT)			
T6005 ⚠	1-435-445-11	TRANSFORMER, CONVERTER (PIT)			
T6100 ⚠	1-433-844-11	TRANSFORMER, CONVERTER			
		< THERMISTOR >			
TH6100	1-803-586-41	THERMISTOR			
		< VARISTOR >			
VD6001 ⚠	1-803-830-31	VARISTOR (ERZV14D621)			
		**********			
	* A-1332-020-A	CR BOARD, COMPLETE			
		**********			
	4-382-854-01	SCREW (M3X8), P, SW (+)			
		< CAPACITOR >			
C7102	1-162-115-00	CERAMIC	330pF	10%	2KV
C7103	1-107-652-11	ELECT	10µF	20%	250V
C7104	1-126-768-11	ELECT	2200µF	20%	16V
C7105	1-162-115-00	CERAMIC	330pF	10%	2KV
C7106	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C7107	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C7108	1-126-967-11	ELECT	47µF	20%	50V
C7110	1-102-050-00	CERAMIC	0.01µF	99%	500V
C7111	1-161-830-00	CERAMIC	0.0047µF		500V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

CR **CG**

REF.NO.	PART NO.	DESCRIPTION	REMARK
C7112	1-163-224-11	CERAMIC CHIP 7pF	0.25pF 50V
C7114	1-163-085-00	CERAMIC CHIP 2pF	0.25pF 50V
C7116	1-107-957-11	ELECT 1µF	20% 250V
C7118	1-164-004-11	CERAMIC CHIP 0.1µF	10% 25V
		< CONNECTOR >	
CN7101	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN7102	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN7103	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN7104	1-785-879-11	CONNECTOR, ONE TOUCH	
CN7107	1-695-915-11	TAB (CONTACT)	
		< DIODE >	
D7102	8-719-921-86	DIODE MTZJ-13	
D7103	8-719-901-83	DIODE 1SS83	
D7104	8-719-901-83	DIODE 1SS83	
D7105	8-719-901-83	DIODE 1SS83	
D7106	8-719-901-83	DIODE 1SS83	
D7108	8-719-988-61	DIODE 1SS355TE-17	
D7109	8-719-921-86	DIODE MTZJ-13	
D7110	8-719-921-86	DIODE MTZJ-13	
		< IC >	
IC7101	8-759-360-83	IC TDA6111Q/N4	
		< SOCKET >	
J7101	⚠ 1-251-182-41	SOCKET, PICTURE TUBE	
		< COIL >	
L7102	1-414-223-11	INDUCTOR 470µH	
L7103	1-414-181-11	INDUCTOR 4.7µH	
L7104	1-414-187-11	INDUCTOR 47µH	
		< NEON LAMP >	
NL7101	1-576-354-21	GAP, SPARK	
NL7102	1-517-729-31	GAP, SPARK	
NL7103	1-576-354-21	GAP, SPARK	
NL7104	1-576-354-21	GAP, SPARK	
NL7105	1-576-354-21	GAP, SPARK	
		< TRANSISTOR >	
Q7101	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q7103	8-729-255-12	TRANSISTOR 2SC2551-O	
Q7104	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
		< RESISTOR >	
R7101	1-260-132-11	CARBON 560K	5% 1/2W
R7102	1-249-389-11	CARBON 4.7	5% 1/4W
R7103	1-216-295-91	SHORT 0	
R7105	1-260-117-11	CARBON 33K	5% 1/2W
R7106	1-219-743-11	CARBON 100	5% 1/2W
R7107	1-208-801-11	METAL CHIP 6.2K	0.5% 1/10W
R7108	1-260-133-11	CARBON 680K	5% 1/2W
R7109	1-208-808-11	METAL CHIP 12K	0.5% 1/10W
R7110	1-208-790-11	METAL CHIP 2.2K	0.5% 1/10W
R7111	1-216-033-00	RES-CHIP 220	5% 1/10W
R7112	1-249-424-11	CARBON 3.9K	5% 1/4W
R7113	1-216-295-91	SHORT 0	
R7114	1-216-660-11	METAL CHIP 2.4K	0.5% 1/10W
R7115	1-208-782-11	METAL CHIP 1K	0.5% 1/10W
R7116	1-215-929-11	METAL OXIDE 100K	5% 3W
R7117	1-260-093-11	CARBON 330	5% 1/2W
R7118	1-260-087-11	CARBON 100	5% 1/2W
R7119	1-260-328-11	CARBON 1K	5% 1/2W
R7120	1-216-081-00	RES-CHIP 22K	5% 1/10W
R7121	1-216-295-91	SHORT 0	
R7122	1-216-025-11	RES-CHIP 100	5% 1/10W
R7123	1-216-295-91	SHORT 0	
R7124	1-216-073-91	RES-CHIP 10K	5% 1/10W
R7128	1-208-818-11	METAL CHIP 33K	0.5% 1/10W
R7129	1-249-417-11	CARBON 1K	5% 1/4W
R7130	1-216-069-00	RES-CHIP 6.8K	5% 1/10W
R7131	1-216-049-11	RES-CHIP 1K	5% 1/10W
R7132	1-216-295-91	SHORT 0	
R7133	1-208-834-11	METAL CHIP 150K	0.5% 1/10W
R7134	1-216-049-11	RES-CHIP 1K	5% 1/10W
R7135	1-216-053-00	RES-CHIP 1.5K	5% 1/10W
		< SPARK GAP >	
SG7101	1-519-422-11	GAP, SPARK	
SG7103	1-519-422-11	GAP, SPARK	
		**********	
	* A-1332-021-A	CG BOARD, COMPLETE	
		**********	
	4-382-854-01	SCREW (M3X8), P, SW (+)	
		< CAPACITOR >	
C7202	1-162-115-00	CERAMIC 330pF	10% 2KV
C7203	1-126-768-11	ELECT 2200µF	20% 16V
C7204	1-107-652-11	ELECT 10µF	20% 250V
C7205	1-163-038-91	CERAMIC CHIP 0.1µF	25V
C7206	1-163-038-91	CERAMIC CHIP 0.1µF	25V
C7207	1-162-115-00	CERAMIC 330pF	10% 2KV
C7208	1-126-967-11	ELECT 47µF	20% 50V
C7209	1-102-050-00	CERAMIC 0.01µF	99% 500V
C7211	1-161-830-00	CERAMIC 0.0047µF	500V
C7212	1-163-224-11	CERAMIC CHIP 7pF	0.25pF 50V
C7213	1-163-085-00	CERAMIC CHIP 2pF	0.25pF 50V
C7214	1-126-964-11	ELECT 10µF	20% 50V
C7216	1-107-957-11	ELECT 1µF	20% 250V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

CG **CB**

REF.NO.	PART NO.	DESCRIPTION			REMARK
		< CONNECTOR >			
CN7201	* 1-564-510-11	PLUG, CONNECTOR 7P			
CN7202	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN7203	* 1-564-512-11	PLUG, CONNECTOR 9P			
CN7204	* 1-564-512-11	PLUG, CONNECTOR 9P			
CN7205	1-785-879-11	CONNECTOR, ONE TOUCH			
CN7208	1-695-915-11	TAB (CONTACT)			
CN7210	* 1-564-506-11	PLUG, CONNECTOR 3P			
		< DIODE >			
D7202	8-719-921-86	DIODE MTZJ-13			
D7203	8-719-901-83	DIODE 1SS83			
D7204	8-719-901-83	DIODE 1SS83			
D7205	8-719-901-83	DIODE 1SS83			
D7206	8-719-901-83	DIODE 1SS83			
D7208	8-719-988-61	DIODE 1SS355TE-17			
		< IC >			
IC7201	8-759-360-83	IC TDA6111Q/N4			
		< SOCKET >			
J7201	⚠ 1-251-182-41	SOCKET, PICTURE TUBE			
		< COIL >			
L7201	1-414-223-11	INDUCTOR	470µH		
L7203	1-414-181-11	INDUCTOR	4.7µH		
L7204	1-414-187-11	INDUCTOR	47µH		
		< NEON LAMP >			
NL7201	1-576-354-21	GAP, SPARK			
NL7202	1-576-354-21	GAP, SPARK			
NL7203	1-517-729-31	GAP, SPARK			
NL7204	1-576-354-21	GAP, SPARK			
NL7205	1-576-354-21	GAP, SPARK			
		< TRANSISTOR >			
Q7201	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7202	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7203	8-729-255-12	TRANSISTOR 2SC2551-O			
		< RESISTOR >			
R7201	1-260-132-11	CARBON	560K	5%	1/2W
R7202	1-216-295-91	SHORT	0		
R7203	1-208-846-11	METAL CHIP	470K	0.5%	1/10W
R7204	1-219-743-11	CARBON	100	5%	1/2W
R7205	1-260-117-11	CARBON	33K	5%	1/2W
R7206	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R7207	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R7208	1-216-033-00	RES-CHIP	220	5%	1/10W
R7209	1-260-133-11	CARBON	680K	5%	1/2W
R7210	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R7211	1-249-424-11	CARBON	3.9K	5%	1/4W
R7212	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R7213	1-215-929-11	METAL OXIDE	100K	5%	3W
R7214	1-216-295-91	SHORT	0		
R7215	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R7216	1-260-093-11	CARBON	330	5%	1/2W
R7217	1-216-295-91	SHORT	0		
R7218	1-260-328-11	CARBON	1K	5%	1/2W
R7219	1-216-295-91	SHORT	0		
R7220	1-216-025-11	RES-CHIP	100	5%	1/10W
R7222	1-216-295-91	SHORT	0		
R7223	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R7224	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R7225	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7226	1-260-087-11	CARBON	100	5%	1/2W
R7229	1-249-417-11	CARBON	1K	5%	1/4W
R7235	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
		< SPARK GAP >			
SG7201	1-519-422-11	GAP, SPARK			
SG7203	1-519-422-11	GAP, SPARK			
**********					
	* A-1332-022-A	CB BOARD, COMPLETE			
		**********			
	4-382-854-01	SCREW (M3X8), P, SW (+)			
		< CAPACITOR >			
C7302	1-162-115-00	CERAMIC	330pF	10%	2KV
C7303	1-162-115-00	CERAMIC	330pF	10%	2KV
C7304	1-126-768-11	ELECT	2200µF	20%	16V
C7305	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C7306	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C7307	1-107-652-11	ELECT	10µF	20%	250V
C7308	1-126-967-11	ELECT	47µF	20%	50V
C7309	1-163-085-00	CERAMIC CHIP	2pF	0.25pF	50V
C7311	1-102-050-00	CERAMIC	0.01µF	99%	500V
C7312	1-161-830-00	CERAMIC	0.0047µF		500V
C7313	1-163-091-00	CERAMIC CHIP	8pF	0.25pF	50V
C7314	1-126-964-11	ELECT	10µF	20%	50V
C7315	1-126-960-11	ELECT	1µF	20%	50V
C7318	1-107-957-11	ELECT	1µF	20%	250V
		< CONNECTOR >			
CN7301	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN7302	* 1-564-512-11	PLUG, CONNECTOR 9P			
CN7303	* 1-564-512-11	PLUG, CONNECTOR 9P			
CN7304	1-785-879-11	CONNECTOR, ONE TOUCH			
CN7307	1-695-915-11	TAB (CONTACT)			

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

CB **DS**

REF.NO.	PART NO.	DESCRIPTION			REMARK
		< DIODE >			
D7302	8-719-921-86	DIODE MTZJ-13			
D7303	8-719-901-83	DIODE 1SS83			
D7304	8-719-901-83	DIODE 1SS83			
D7305	8-719-901-83	DIODE 1SS83			
D7306	8-719-901-83	DIODE 1SS83			
D7307	8-719-988-61	DIODE 1SS355TE-17			
D7308	8-719-921-88	DIODE MTZJ-13B			
D7309	8-719-988-61	DIODE 1SS355TE-17			
D7311	8-719-921-86	DIODE MTZJ-13			
D7312	8-719-921-86	DIODE MTZJ-13			
		< IC >			
IC7301	8-759-360-83	IC TDA6111Q/N4			
		< SOCKET >			
J7301	⚠ 1-251-182-41	SOCKET, PICTURE TUBE			
		< COIL >			
L7301	1-414-223-11	INDUCTOR	470µH		
L7303	1-414-181-11	INDUCTOR	4.7µH		
L7304	1-414-187-11	INDUCTOR	47µH		
		< NEON LAMP >			
NL7301	1-576-354-21	GAP, SPARK			
NL7302	1-517-729-31	GAP, SPARK			
NL7303	1-576-354-21	GAP, SPARK			
NL7304	1-576-354-21	GAP, SPARK			
NL7305	1-576-354-21	GAP, SPARK			
		< TRANSISTOR >			
Q7301	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7302	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7303	8-729-255-12	TRANSISTOR 2SC2551-O			
Q7305	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7306	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
		< RESISTOR >			
R7301	1-219-743-11	CARBON	100	5%	1/2W
R7302	1-260-132-11	CARBON	560K	5%	1/2W
R7304	1-216-295-91	SHORT	0		
R7306	1-260-328-11	CARBON	1K	5%	1/2W
R7307	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R7308	1-260-133-11	CARBON	680K	5%	1/2W
R7309	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
R7310	1-216-295-91	SHORT	0		
R7311	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R7312	1-216-660-11	METAL CHIP	2.4K	0.5%	1/10W
R7313	1-216-033-00	RES-CHIP	220	5%	1/10W
R7314	1-249-424-11	CARBON	3.9K	5%	1/4W
R7315	1-216-295-91	SHORT	0		
R7316	1-215-929-11	METAL OXIDE	100K	5%	3W
R7317	1-260-093-11	CARBON	330	5%	1/2W
R7318	1-216-295-91	SHORT	0		
R7319	1-216-660-11	METAL CHIP	2.4K	0.5%	1/10W
R7320	1-260-087-11	CARBON	100	5%	1/2W
R7321	1-260-117-11	CARBON	33K	5%	1/2W
R7322	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R7323	1-216-025-11	RES-CHIP	100	5%	1/10W
R7324	1-216-295-91	SHORT	0		
R7326	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W
R7327	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R7328	1-216-073-91	RES-CHIP	10K	5%	1/10W
R7329	1-216-091-00	RES-CHIP	56K	5%	1/10W
R7330	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7331	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R7332	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7335	1-249-417-11	CARBON	1K	5%	1/4W
R7336	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
		< SPARK GAP >			
SG7301	1-519-422-11	GAP, SPARK			
SG7303	1-519-422-11	GAP, SPARK			
**********					
	* A-1343-788-A	DS BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C3501	1-126-947-11	ELECT	47µF	20%	25V
C3502	1-126-947-11	ELECT	47µF	20%	25V
C3503	1-126-947-11	ELECT	47µF	20%	25V
C3504	1-126-947-11	ELECT	47µF	20%	25V
C3505	1-126-947-11	ELECT	47µF	20%	25V
C3506	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V
C3507	1-126-964-11	ELECT	10µF	20%	50V
C3508	1-107-714-11	ELECT	10µF	20%	16V
C3509	1-137-350-11	MYLAR	0.015µF	5%	50V
C3510	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C3511	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C3512	1-126-947-11	ELECT	47µF	20%	25V
C3513	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C3514	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C3515	1-126-947-11	ELECT	47µF	20%	25V
C3519	1-126-947-11	ELECT	47µF	20%	25V
C3520	1-137-374-11	MYLAR	0.047µF	5%	50V
C3523	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C3525	1-126-947-11	ELECT	47µF	20%	25V
C3526	1-126-947-11	ELECT	47µF	20%	25V
C3528	1-107-714-11	ELECT	10µF	20%	16V
		< CONNECTOR >			
CN3501	* 1-691-632-21	CONNECTOR, BOARD TO BOARD 15P			

REF.NO.	PART NO.	DESCRIPTION			REMARK
		< DIODE >			
D3501	8-719-069-55	DIODE UDZSTE-175.6B			
D3502	8-719-914-44	DIODE DAP202K			
D3503	8-719-069-55	DIODE UDZSTE-175.6B			
		< IC >			
IC3502	8-759-251-31	IC CA0007AM			
IC3503	8-759-251-31	IC CA0007AM			
IC3504	8-759-251-31	IC CA0007AM			
IC3505	8-759-711-28	IC NJM2058D			
IC3506	8-759-100-96	IC µPC4558G2			
		< RESISTOR >			
R3501	1-216-073-91	RES-CHIP	10K	5%	1/10W
R3502	1-216-093-91	RES-CHIP	68K	5%	1/10W
R3503	1-216-073-91	RES-CHIP	10K	5%	1/10W
R3504	1-216-689-11	RES-CHIP	39K	5%	1/10W
R3506	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3507	1-216-689-11	RES-CHIP	39K	5%	1/10W
R3508	1-216-073-91	RES-CHIP	10K	5%	1/10W
R3509	1-216-073-91	RES-CHIP	10K	5%	1/10W
R3511	1-208-803-11	METAL CHIP	7.5K	0.5%	1/10W
R3512	1-216-033-00	RES-CHIP	220	5%	1/10W
R3513	1-216-033-00	RES-CHIP	220	5%	1/10W
R3514	1-216-073-91	RES-CHIP	10K	5%	1/10W
R3515	1-216-033-00	RES-CHIP	220	5%	1/10W
R3518	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R3519	1-216-081-00	RES-CHIP	22K	5%	1/10W
R3520	1-216-081-00	RES-CHIP	22K	5%	1/10W
R3521	1-216-103-00	RES-CHIP	180K	5%	1/10W
R3523	1-216-105-91	RES-CHIP	220K	5%	1/10W
R3524	1-216-097-11	RES-CHIP	100K	5%	1/10W
R3526	1-216-039-00	RES-CHIP	390	5%	1/10W
R3529	1-216-107-00	RES-CHIP	270K	5%	1/10W
R3530	1-216-081-00	RES-CHIP	22K	5%	1/10W
R3531	1-216-041-00	RES-CHIP	470	5%	1/10W
R3532	1-216-037-00	RES-CHIP	330	5%	1/10W
R3533	1-216-075-00	RES-CHIP	12K	5%	1/10W
R3535	1-216-097-11	RES-CHIP	100K	5%	1/10W
R3537	1-216-081-00	RES-CHIP	22K	5%	1/10W
R3538	1-216-073-91	RES-CHIP	10K	5%	1/10W
R3541	1-216-085-91	RES-CHIP	33K	5%	1/10W
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	* A-1346-906-A	E BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C4304	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4306	1-126-964-11	ELECT	10µF	20%	50V
C4307	1-163-137-00	CERAMIC CHIP	680pF	5%	50V
C4311	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4312	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4313	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4316	1-126-947-11	ELECT	47µF	20%	25V
C4317	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4318	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4319	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4324	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4325	1-163-093-00	CERAMIC CHIP	10pF	5%	50V
C4329	1-126-963-11	ELECT	4.7µF	20%	50V
C4330	1-137-581-11	FILM	0.1µF	5%	100V
C4331	1-126-959-11	ELECT	0.47µF	20%	50V
C4332	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4333	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4334	1-126-967-11	ELECT	47µF	20%	50V
C4336	1-126-967-11	ELECT	47µF	20%	50V
C4338	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4340	1-126-967-11	ELECT	47µF	20%	50V
C4342	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C4343	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4344	1-126-960-11	ELECT	1µF	20%	50V
C4345	1-126-967-11	ELECT	47µF	20%	50V
C4346	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4347	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4348	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4349	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4350	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4351	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C4352	1-126-967-11	ELECT	47µF	20%	50V
C4353	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C4354	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C4355	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4356	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4357	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4358	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4359	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C4360	1-126-966-11	ELECT	33µF	20%	50V
C4362	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4363	1-126-967-11	ELECT	47µF	20%	50V
C4364	1-126-967-11	ELECT	47µF	20%	50V
C4368	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4369	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4370	1-126-967-11	ELECT	47µF	20%	50V
C4371	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4372	1-164-505-11	CERAMIC CHIP	2.2µF	16V	
C4373	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4374	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4377	1-126-960-11	ELECT	1µF	20%	50V
C4382	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4383	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4384	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4601	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
		< CONNECTOR >			
CN4101	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P			
CN4500	* 1-564-512-11	PLUG, CONNECTOR 9P			

E

REF.NO.	PART NO.	DESCRIPTION			REMARK
CN4502 *	1-564-507-11	PLUG, CONNECTOR 4P			
		< DIODE >			
D4304	8-719-069-60	DIODE UDZSTE-179.1B			
D4305	8-719-069-60	DIODE UDZSTE-179.1B			
D4601	8-719-401-63	DIODE MA3062M-TX			
D4602	8-719-914-43	DIODE DAN202K			
D4603	8-719-914-43	DIODE DAN202K			
		< FERRITE BEAD >			
FB4387	1-216-295-91	SHORT	0		
FB4388	1-216-295-91	SHORT	0		
FB4389	1-216-295-91	SHORT	0		
		< IC >			
IC4301	8-752-090-88	IC CXA2100AQ-TL			
		< CHIP CONDUCTOR >			
JR4301	1-216-295-91	SHORT	0		
JR4302	1-216-037-00	RES-CHIP	330	5%	1/10W
		< COIL >			
L4301	1-412-029-11	INDUCTOR	10µH		
L4302	1-412-029-11	INDUCTOR	10µH		
L4303	1-412-029-11	INDUCTOR	10µH		
L4304	1-412-029-11	INDUCTOR	10µH		
L4305	1-412-029-11	INDUCTOR	10µH		
L4306	1-412-029-11	INDUCTOR	10µH		
L4308	1-412-031-11	INDUCTOR	47µH		
L4309	1-412-031-11	INDUCTOR	47µH		
		< TRANSISTOR >			
Q4301	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q4302	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q4303	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q4304	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q4307	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q4308	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q4310	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q4316	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q4317	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q4318	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q4320	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q4321	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q4322	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q4601	1-801-806-11	TRANSISTOR TR DTC144EKA			
Q4602	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		< RESISTOR >			
R4301	1-216-025-11	RES-CHIP	100	5%	1/10W
R4302	1-216-025-11	RES-CHIP	100	5%	1/10W
R4303	1-216-025-11	RES-CHIP	100	5%	1/10W
R4304	1-216-025-11	RES-CHIP	100	5%	1/10W
R4305	1-216-025-11	RES-CHIP	100	5%	1/10W
R4306	1-216-025-11	RES-CHIP	100	5%	1/10W
R4307	1-216-295-91	SHORT	0		
R4309	1-216-295-91	SHORT	0		
R4313	1-216-039-00	RES-CHIP	390	5%	1/10W
R4314	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4315	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R4316	1-216-037-00	RES-CHIP	330	5%	1/10W
R4317	1-216-047-91	RES-CHIP	820	5%	1/10W
R4318	1-249-411-11	CARBON	330	5%	1/4W
R4319	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4320	1-216-689-11	RES-CHIP	39K	5%	1/10W
R4321	1-216-105-91	RES-CHIP	220K	5%	1/10W
R4322	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4323	1-216-091-00	RES-CHIP	56K	5%	1/10W
R4324	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R4332	1-216-025-11	RES-CHIP	100	5%	1/10W
R4334	1-216-025-11	RES-CHIP	100	5%	1/10W
R4335	1-216-025-11	RES-CHIP	100	5%	1/10W
R4336	1-216-025-11	RES-CHIP	100	5%	1/10W
R4337	1-216-025-11	RES-CHIP	100	5%	1/10W
R4339	1-249-409-11	CARBON	220	5%	1/4W
R4340	1-216-111-00	RES-CHIP	390K	5%	1/10W
R4341	1-216-295-91	SHORT	0		
R4343	1-216-025-11	RES-CHIP	100	5%	1/10W
R4344	1-216-025-11	RES-CHIP	100	5%	1/10W
R4345	1-216-075-00	RES-CHIP	12K	5%	1/10W
R4346	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
R4347	1-216-025-11	RES-CHIP	100	5%	1/10W
R4348	1-216-025-11	RES-CHIP	100	5%	1/10W
R4349	1-216-033-00	RES-CHIP	220	5%	1/10W
R4350	1-216-025-11	RES-CHIP	100	5%	1/10W
R4352	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4354	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R4355	1-216-295-91	SHORT	0		
R4357	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4358	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W
R4359	1-216-041-00	RES-CHIP	470	5%	1/10W
R4360	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R4361	1-216-133-91	RES-CHIP	3.3M	5%	1/10W
R4363	1-216-025-11	RES-CHIP	100	5%	1/10W
R4365	1-216-017-91	RES-CHIP	47	5%	1/10W
R4366	1-216-017-91	RES-CHIP	47	5%	1/10W
R4367	1-216-017-91	RES-CHIP	47	5%	1/10W
R4370	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4372	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4375	1-216-033-00	RES-CHIP	220	5%	1/10W
R4377	1-216-033-00	RES-CHIP	220	5%	1/10W
R4380	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4382	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4384	1-216-025-11	RES-CHIP	100	5%	1/10W
R4385	1-216-129-00	RES-CHIP	2.2M	5%	1/10W
R4387	1-216-017-91	RES-CHIP	47	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R4388	1-216-017-91	RES-CHIP	47	5%	1/10W
R4389	1-216-017-91	RES-CHIP	47	5%	1/10W
R4393	1-216-025-11	RES-CHIP	100	5%	1/10W
R4395	1-216-295-91	SHORT	0		
R4396	1-216-295-91	SHORT	0		
R4398	1-216-025-11	RES-CHIP	100	5%	1/10W
R4504	1-216-025-11	RES-CHIP	100	5%	1/10W
R4516	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4517	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4518	1-216-025-11	RES-CHIP	100	5%	1/10W
R4519	1-216-025-11	RES-CHIP	100	5%	1/10W
R4520	1-216-025-11	RES-CHIP	100	5%	1/10W
R4521	1-216-025-11	RES-CHIP	100	5%	1/10W
R4522	1-216-025-11	RES-CHIP	100	5%	1/10W
R4523	1-216-025-11	RES-CHIP	100	5%	1/10W
R4524	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4602	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4603	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
		< CRYSTAL >			
X4300	1-767-127-11	VIBRATOR, CERAMIC (503.5MHz)			
**********					
	* A-1346-907-A	D BOARD, COMPLETE (KP-48)			
	* A-1346-909-A	D BOARD, COMPLETE (KP-61)			
	**********				
	1-500-048-11	FERRITE	0µH		
	4-363-414-00	SPACER, MICA			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	* 4-393-506-01	RETAINER, TR			
	7-682-952-09	SCREW +PSW 3X16			
		< CAPACITOR >			
C5001	1-126-947-11	ELECT	47µF	20%	16V
C5002	1-126-963-11	ELECT	4.7µF	20%	50V
C5011	1-126-934-11	ELECT	220µF	20%	16V
C5020	1-126-961-11	ELECT	2.2µF	20%	50V
C5102	1-102-973-00	CERAMIC	100pF	5%	50V
C5103	1-126-960-11	ELECT	1µF	20%	50V
C5104	1-137-415-11	MYLAR	0.0068µF	10%	100V
C5105	1-102-973-00	CERAMIC	100pF	5%	50V
C5112	1-162-117-00	CERAMIC	100pF	10%	500V
C5113	1-136-207-11	MYLAR	0.047µF	10%	250V
C5115	1-124-347-51	ELECT	100µF	20%	160V
C5117	1-162-116-00	CERAMIC	680pF	10%	2KV
C5118	1-137-391-11	MYLAR	0.0047µF	5%	100V
C5119	1-162-116-00	CERAMIC	680pF	10%	2KV
C5120	1-162-116-00	CERAMIC	680pF	10%	2KV
C5123	1-129-718-00	FILM	0.022µF	5%	630V
C5127	1-117-643-11	FILM	9100pF	3%	1.2KV
C5130	1-115-521-11	FILM	0.82µF	5%	250V
C5133	1-104-665-11	ELECT	100µF	20%	25V
C5135	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C5136	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C5137	1-137-043-11	MYLAR	0.0047µF	10%	400V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C5138	1-126-965-91	ELECT	22µF	20%	50V
C5140	1-107-652-11	ELECT	10µF	20%	250V
C5141	1-136-189-00	MYLAR	0.1µF	10%	250V
C5142	1-162-117-00	CERAMIC	100pF	10%	500V
C5143	1-115-521-11	FILM	0.82µF	5%	250V
C5145	1-104-665-11	ELECT	100µF	20%	25V
C5146	1-107-655-11	ELECT	47µF	20%	250V
C5147	1-102-228-00	CERAMIC	470pF	10%	500V
C5148	1-126-941-11	ELECT	470µF	20%	25V
C5149	1-126-941-11	ELECT	470µF	20%	25V
C5150	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C5151	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C5152	1-126-972-11	ELECT	1000µF	20%	50V
C5153	1-126-972-11	ELECT	1000µF	20%	50V
C5158	1-124-347-51	ELECT	100µF	20%	160V
C5159	1-126-935-11	ELECT	470µF	20%	16V
C5160	1-126-935-11	ELECT	470µF	20%	16V
C5163	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C5164	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C5165	1-126-967-11	ELECT	47µF	20%	50V
C5166	1-126-967-11	ELECT	47µF	20%	50V
C5167	1-126-967-11	ELECT	47µF	20%	50V
C5168	1-126-967-11	ELECT	47µF	20%	50V
C5170	1-136-165-00	FILM	0.1µF	5%	50V
C5171	1-106-387-00	MYLAR	0.068µF	10%	200V
C5172	1-136-165-00	FILM	0.1µF	5%	50V
C5173	1-136-165-00	FILM	0.1µF	5%	50V
C5174	1-136-165-00	FILM	0.1µF	5%	50V
C5175	1-126-967-11	ELECT	47µF	20%	50V
C5176	1-126-967-11	ELECT	47µF	20%	50V
C5204	1-126-933-11	ELECT	100µF	20%	16V
C5205	1-130-495-00	MYLAR	0.1µF	5%	50V
C5206	1-126-960-11	ELECT	1µF	20%	50V
C5207	1-126-965-91	ELECT	22µF	20%	50V
C5208	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C5209	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V
C5211	1-130-495-00	MYLAR	0.1µF	5%	50V
C5214	1-126-935-11	ELECT	470µF	20%	16V
C5215	1-126-964-11	ELECT	10µF	20%	50V
C5216	1-164-096-11	CERAMIC	0.01µF		50V
C5217	1-164-096-11	CERAMIC	0.01µF		50V
C5218	1-164-096-11	CERAMIC	0.01µF		50V
C5219	1-164-096-11	CERAMIC	0.01µF		50V
C5220	1-164-096-11	CERAMIC	0.01µF		50V
C5221	1-164-096-11	CERAMIC	0.01µF		50V
C5222	1-164-096-11	CERAMIC	0.01µF		50V
C5223	1-126-960-11	ELECT	1µF	20%	50V
C5224	1-126-967-11	ELECT	47µF	20%	50V
C5225	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C5226	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C5301	1-126-947-11	ELECT	47µF	20%	25V
C5302	1-104-665-11	ELECT	100µF	20%	25V
C5303	1-126-933-11	ELECT	100µF	20%	16V
C5304	1-163-005-91	CERAMIC CHIP	470pF	10%	50V
C5305	1-137-399-11	MYLAR	0.1µF	5%	100V
C5307	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V

REF.NO.	PART NO.	DESCRIPTION				REMARK
C5308	1-126-960-11	ELECT	1µF	20%	50V	
C5310	1-126-964-11	ELECT	10µF	20%	50V	
C5311	1-136-177-00	FILM	1µF	5%	50V	
C5312	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5313	1-126-933-11	ELECT	100µF	20%	16V	
C5314	1-126-969-11	ELECT	220µF	20%	50V	
C5315	1-126-964-11	ELECT	10µF	20%	50V	
C5316	1-137-401-11	MYLAR	0.22µF	10%	100V	
C5317	1-126-947-11	ELECT	47µF	20%	16V	
C5318	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5319	1-126-941-11	ELECT	470µF	20%	25V	
C5320	1-126-972-11	ELECT	1000µF	20%	50V	
C5321	1-163-243-11	CERAMIC CHIP	47pF	5%	50V	
C5323	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5326	1-126-972-11	ELECT	1000µF	20%	50V	
C5327	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	
C5328	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5329	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	
C5331	1-126-960-11	ELECT	1µF	20%	50V	
C5332	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5333	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5334	1-126-960-11	ELECT	1µF	20%	50V	
C5401	1-126-967-11	ELECT	47µF	20%	50V	
C5402	1-126-947-11	ELECT	47µF	20%	25V	
C5403	1-102-125-00	CERAMIC	0.0047µF	10%	50V	
C5404	1-102-125-00	CERAMIC	0.0047µF	10%	50V	
C5405	1-102-125-00	CERAMIC	0.0047µF	10%	50V	
C5406	1-126-947-11	ELECT	47µF	20%	25V	
C5407	1-130-495-00	MYLAR	0.1µF	5%	50V	
C5507	1-102-973-00	CERAMIC	100pF	5%	50V	
C5508	1-102-973-00	CERAMIC	100pF	5%	50V	
C5509	1-102-973-00	CERAMIC	100pF	5%	50V	
C5510	1-102-973-00	CERAMIC	100pF	5%	50V	
C5511	1-102-973-00	CERAMIC	100pF	5%	50V	
C5512	1-102-973-00	CERAMIC	100pF	5%	50V	
C5517	1-126-965-91	ELECT	22µF	20%	50V	
C5518	1-126-965-91	ELECT	22µF	20%	50V	
C5519	1-126-969-11	ELECT	220µF	20%	50V	
C5520	1-126-969-11	ELECT	220µF	20%	50V	
C5521	1-130-495-00	MYLAR	0.1µF	5%	50V	
C5522	1-130-495-00	MYLAR	0.1µF	5%	50V	
C5523	1-126-971-11	ELECT	470µF	20%	50V	
C5524	1-126-971-11	ELECT	470µF	20%	50V	
C5527	1-126-969-11	ELECT	220µF	20%	50V	
C5528	1-126-969-11	ELECT	220µF	20%	50V	
C5529	1-137-150-11	MYLAR	0.01µF	5%	50V	
C5530	1-137-150-11	MYLAR	0.01µF	5%	50V	
C5711	1-136-165-00	FILM	0.1µF	5%	50V	
C5712	1-136-177-00	FILM	1µF	5%	50V	
C5713	1-104-665-11	ELECT	100µF	20%	25V	
C5714	1-130-471-00	MYLAR	0.001µF	5%	50V	
C5715	1-137-150-11	MYLAR	0.01µF	5%	50V	
C5716	1-104-665-11	ELECT	100µF	20%	25V	
C5717	1-126-968-11	ELECT	100µF	20%	50V	
C5718	1-162-114-00	CERAMIC	0.0047µF		2KV	
C5719	1-126-968-11	ELECT	100µF	20%	50V	
C5720	1-137-372-11	MYLAR	0.022µF	5%	50V	
C5721	1-104-661-91	ELECT	330µF	20%	16V	
C5722	1-126-934-11	ELECT	220µF	20%	16V	
C5727	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5728	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5759	1-126-964-11	ELECT	10µF	20%	50V	
C5760	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V	
		< CONNECTOR >				
CN5001	* 1-564-506-11	PLUG, CONNECTOR 3P				
CN5002	* 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P				
CN5003	* 1-506-371-00	PIN, CONNECTOR 2P				
CN5004	1-695-915-11	TAB (CONTACT)				
CN5006	* 1-564-512-11	PLUG, CONNECTOR 9P				
CN5007	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P				
CN5008	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P				
CN5009	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P				
CN5010	* 1-564-507-11	PLUG, CONNECTOR 4P				
CN5011	* 1-564-507-11	PLUG, CONNECTOR 4P				
CN5012	* 1-564-507-11	PLUG, CONNECTOR 4P				
CN5013	* 1-764-333-11	PLUG, CONNECTOR 10P				
CN5014	* 1-691-135-11	PIN, CONNECTOR (PC BOARD) 4P				
CN5015	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P				
CN5016	1-900-903-64	CONNECTOR ASSY	20P			
CN5017	1-900-903-64	CONNECTOR ASSY	20P			
CN5018	* 1-564-511-11	PLUG, CONNECTOR 8P				
CN5019	* 1-564-507-11	PLUG, CONNECTOR 4P				
CN5020	* 1-564-506-11	PLUG, CONNECTOR 3P				
CN5401	* 1-564-506-11	PLUG, CONNECTOR 3P				
CN5402	* 1-691-616-21	CONNECTOR, BOARD TO BOARD 15P				
		< DIODE >				
D5001	8-719-991-33	DIODE 1SS133T-77				
D5002	8-719-991-33	DIODE 1SS133T-77				
D5006	8-719-991-33	DIODE 1SS133T-77				
D5008	8-719-991-33	DIODE 1SS133T-77				
D5101	8-719-983-38	DIODE MTZJ-T-77-36B				
D5107	8-719-979-99	DIODE ERD08M-15				
D5108	8-719-052-09	DIODE FMG-36S-LF024-104				
D5114	8-719-971-20	DIODE ERC38-06				
D5115	8-719-302-43	DIODE EL1Z				
D5116	8-719-979-85	DIODE EGP20G				
D5117	8-719-302-43	DIODE EL1Z				
D5118	8-719-979-85	DIODE EGP20G				
D5121	8-719-908-03	DIODE GP08D				
D5122	8-719-908-03	DIODE GP08D				
D5201	8-719-991-33	DIODE 1SS133T-77				
D5202	8-719-109-85	DIODE RD5.1ESB2				
D5203	8-719-923-86	DIODE MTZJ-T-77-15				
D5204	8-719-921-63	DIODE MTZJ-7.5B				
D5205	8-719-991-33	DIODE 1SS133T-77				
D5207	8-719-991-33	DIODE 1SS133T-77				
D5208	8-719-991-33	DIODE 1SS133T-77				

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
D5301	8-719-923-86	DIODE MTZJ-T-77-15	
D5302	8-719-991-33	DIODE 1SS133T-77	
D5303	8-719-908-03	DIODE GP08D	
D5304	8-719-908-03	DIODE GP08D	
D5305	8-719-991-33	DIODE 1SS133T-77	
D5306	8-719-923-86	DIODE MTZJ-T-77-15	
D5307	8-719-923-86	DIODE MTZJ-T-77-15	
D5308	8-719-924-16	DIODE MTZJ-T-77-24	
D5309	8-719-924-16	DIODE MTZJ-T-77-24	
D5401	8-719-110-17	DIODE RD10ESB2	
D5402	8-719-085-31	DIODE MM3Z2V4T1	
D5701	8-719-991-33	DIODE 1SS133T-77	
D5704	8-719-991-33	DIODE 1SS133T-77	
D5719	8-719-923-86	DIODE MTZJ-T-77-15	
D5721	8-719-923-86	DIODE MTZJ-T-77-15	
D5724	8-719-018-82	DIODE RGP02-20EL-6394	
D5726	8-719-991-33	DIODE 1SS133T-77	
D5727	8-719-991-33	DIODE 1SS133T-77	
D5731	8-719-991-33	DIODE 1SS133T-77	
D5732	8-719-991-33	DIODE 1SS133T-77	
		< FERRITE BEAD >	
FB5102	1-412-911-11	FERRITE 0µH	
FB5103	1-412-911-11	FERRITE 0µH	
		< IC >	
IC5103	8-759-701-79	IC NJM7812FA	
IC5104	8-759-929-65	IC LM7912CT	
IC5105	8-759-701-56	IC NJM78M05FA	
IC5106	8-759-701-65	IC NJM79M05FA	
IC5107	8-759-701-59	IC NJM78M09FA	
IC5201	8-759-085-67	IC LM339NS	
IC5301	8-759-251-31	IC CA0007AM	
IC5302	8-759-192-71	IC STV9379	
IC5303	8-759-998-98	IC LM358D	
IC5401	8-759-711-28	IC NJM2058D	
IC5501	8-749-014-67	IC STK392-020	
IC5502	8-749-014-67	IC STK392-020	
IC5703	8-759-711-28	IC NJM2058D	
		< CHIP CONDUCTOR >	
JR5301	1-216-295-91	SHORT 0	
JR5303	1-216-295-91	SHORT 0	
		< COIL >	
L5101	1-406-665-11	INDUCTOR 100µH	
L5104	1-412-551-31	INDUCTOR 1.5mH	
L5105	1-459-111-00	INDUCTOR 10mH	
L5107	1-412-533-21	INDUCTOR 47µH	
L5108	1-412-533-21	INDUCTOR 47µH	
L5109	1-412-519-11	INDUCTOR 3.3µH	
L5201	1-414-187-11	INDUCTOR 47µH	

REF.NO.	PART NO.	DESCRIPTION	REMARK
L5301	1-412-524-11	INDUCTOR 8.2µH	
L5501	1-412-533-21	INDUCTOR 47µH	
L5502	1-412-533-21	INDUCTOR 47µH	
L5503	1-412-533-21	INDUCTOR 47µH	
L5504	1-412-533-21	INDUCTOR 47µH	
		< NEON LAMP >	
NL5101	1-517-778-21	LAMP, NEON	
NL5102	1-517-778-21	LAMP, NEON	
NL5103	1-517-778-21	LAMP, NEON	
NL5402	1-517-778-21	LAMP, NEON	
		< IC LINK >	
PS5101	⚠ 1-533-590-31	LINK, IC (1A/90V AC, 60V DC)	
PS5501	⚠ 1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	
PS5502	⚠ 1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	
PS5503	⚠ 1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	
PS5504	⚠ 1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	
PS5539	⚠ 1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)	
PS5540	⚠ 1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)	
PS5543	⚠ 1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)	
PS5544	⚠ 1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)	
PS5549	⚠ 1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)	
PS5550	⚠ 1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)	
		< TRANSISTOR >	
Q5006	1-801-806-11	TRANSISTOR TR DTC144EKA	
Q5009	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q5102	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q5104	8-729-051-81	TRANSISTOR 2SC5047-YB	
Q5105	8-729-038-83	TRANSISTOR 2SK2251-01-F19	
Q5106	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q5302	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q5303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q5401	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5402	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q5403	1-801-806-11	TRANSISTOR TR DTC144EKA	
Q5501	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q5502	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q5503	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5504	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q5505	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5506	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q5704	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q5705	8-729-032-61	TRANSISTOR 2SC5022-02	
Q5706	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5707	8-729-046-80	TRANSISTOR 2SC4634LS-CB11	
Q5709	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q5710	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q5711	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

REF.NO.	PART NO.	DESCRIPTION			REMARK
	< RESISTOR >				
R5004	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5013	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5023	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5048	1-216-041-00	RES-CHIP	470	5%	1/10W
R5101	1-215-926-00	METAL OXIDE	33K	5%	3W
R5112	1-247-843-11	CARBON	3.3K	5%	1/4W
R5115	1-216-435-11	METAL OXIDE	2.7K	5%	1W
R5119	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R5120	1-216-486-00	METAL OXIDE	8.2K	5%	3W
R5122	1-215-905-11	METAL OXIDE	10	5%	3W
R5136	1-215-443-00	METAL	8.2K	1%	1/4W
R5138	1-215-457-00	METAL	33K	1%	1/4W
R5139	1-216-391-11	METAL OXIDE	1.5	5%	3W
R5140	1-215-449-00	METAL	15K	1%	1/4W
R5141	1-215-911-11	METAL OXIDE	100	5%	3W
R5143	1-247-735-11	CARBON	47	5%	1/2W
R5146	1-215-910-00	METAL OXIDE	68	5%	3W
R5147	1-215-910-00	METAL OXIDE	68	5%	3W
R5148	1-249-377-11	CARBON	0.47	5%	1/4W
R5149	1-247-807-31	CARBON	100	5%	1/4W
R5152	1-216-377-11	METAL OXIDE	4.7	5%	2W
R5153	1-249-379-11	CARBON	0.68	5%	1/4W
R5154	1-260-127-11	CARBON	220K	5%	1/2W
R5155	1-214-909-00	METAL	68K	1%	1/2W
R5157	1-215-908-00	METAL OXIDE	33	5%	3W (KP-48)
R5157	1-216-472-00	METAL OXIDE	39	5%	3W (KP-61)
R5158	1-216-349-00	METAL OXIDE	1	5%	1W
R5159	1-215-908-00	METAL OXIDE	33	5%	3W (KP-48)
R5159	1-216-472-00	METAL OXIDE	39	5%	3W (KP-61)
R5160	1-249-377-11	CARBON	0.47	5%	1/4W
R5161	1-249-377-11	CARBON	0.47	5%	1/4W
R5162	1-216-393-00	METAL OXIDE	2.2	5%	3W
R5163	1-216-392-11	METAL OXIDE	1.8	5%	3W
R5164	1-249-393-11	CARBON	10	5%	1/4W
R5166	1-215-905-11	METAL OXIDE	10	5%	3W
R5169	1-249-424-11	CARBON	3.9K	5%	1/4W
R5171	1-249-429-11	CARBON	10K	5%	1/4W
R5172	1-249-417-11	CARBON	1K	5%	1/4W
R5173	1-215-905-11	METAL OXIDE	10	5%	3W
R5174	1-215-905-11	METAL OXIDE	10	5%	3W
R5175	1-215-905-11	METAL OXIDE	10	5%	3W
R5201	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R5202	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5203	1-215-879-11	METAL OXIDE	47K	5%	1W
R5204	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R5205	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R5206	1-216-099-00	RES-CHIP	120K	5%	1/10W
R5209	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R5210	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5211	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5212	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R5213	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5214	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R5215	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5216	1-247-895-91	CARBON	470K	5%	1/4W
R5217	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R5218	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5219	1-216-075-00	RES-CHIP	12K	5%	1/10W
R5220	1-216-105-91	RES-CHIP	220K	5%	1/10W
R5221	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R5222	1-216-105-91	RES-CHIP	220K	5%	1/10W
R5223	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5224	1-249-405-11	CARBON	100	5%	1/4W
R5225	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5226	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5227	1-260-135-11	CARBON	1M	5%	1/2W
R5229	1-216-045-00	RES-CHIP	680	5%	1/10W
R5230	1-216-097-11	RES-CHIP	100K	5%	1/10W
R5231	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5232	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5233	1-247-807-31	CARBON	100	5%	1/4W
R5234	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5235	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R5236	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5302	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5303	1-216-083-00	RES-CHIP	27K	5%	1/10W
R5304	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5305	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R5306	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5307	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5308	1-216-353-00	METAL OXIDE	2.2	5%	1W
R5309	1-216-097-11	RES-CHIP	100K	5%	1/10W
R5310	1-216-353-00	METAL OXIDE	2.2	5%	1W
R5311	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5312	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5313	1-216-083-00	RES-CHIP	27K	5%	1/10W
R5314	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5315	1-215-913-11	METAL OXIDE	220	5%	3W
R5316	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5317	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5318	1-216-097-11	RES-CHIP	100K	5%	1/10W
R5319	1-216-085-91	RES-CHIP	33K	5%	1/10W
R5320	1-249-383-11	CARBON	1.5	5%	1/4W
R5321	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5323	1-216-083-00	RES-CHIP	27K	5%	1/10W
R5325	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R5326	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5328	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5329	1-216-025-11	RES-CHIP	100	5%	1/10W
R5330	1-216-295-91	SHORT	0		
R5331	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5335	1-216-117-00	RES-CHIP	680K	5%	1/10W
R5337	1-216-117-00	RES-CHIP	680K	5%	1/10W
R5338	1-216-295-91	SHORT	0		
R5339	1-247-807-31	CARBON	100	5%	1/4W
R5340	1-249-377-11	CARBON	0.47	5%	1/4W
R5341	1-249-377-11	CARBON	0.47	5%	1/4W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R5344	1-216-117-00	RES-CHIP	680K	5%	1/10W
R5345	1-216-117-00	RES-CHIP	680K	5%	1/10W
R5401	1-216-295-91	SHORT	0		
R5405	1-260-087-11	CARBON	100	5%	1/2W
R5406	1-216-295-91	SHORT	0		
R5408	1-216-295-91	SHORT	0		
R5409	1-216-295-91	SHORT	0		
R5410	1-260-087-11	CARBON	100	5%	1/2W
R5411	1-216-295-91	SHORT	0		
R5412	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
R5415	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R5416	1-216-295-91	SHORT	0		
R5419	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5420	1-216-077-91	RES-CHIP	15K	5%	1/10W
R5421	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5422	1-216-105-91	RES-CHIP	220K	5%	1/10W
R5501	1-247-807-31	CARBON	100	5%	1/4W
R5502	1-247-807-31	CARBON	100	5%	1/4W
R5503	1-247-807-31	CARBON	100	5%	1/4W
R5504	1-247-807-31	CARBON	100	5%	1/4W
R5505	1-247-807-31	CARBON	100	5%	1/4W
R5506	1-247-807-31	CARBON	100	5%	1/4W
R5507	1-247-843-11	CARBON	3.3K	5%	1/4W
R5508	1-247-843-11	CARBON	3.3K	5%	1/4W
R5509	1-247-843-11	CARBON	3.3K	5%	1/4W
R5510	1-247-843-11	CARBON	3.3K	5%	1/4W
R5511	1-249-417-11	CARBON	1K	5%	1/4W
R5512	1-249-417-11	CARBON	1K	5%	1/4W
R5513	1-247-843-11	CARBON	3.3K	5%	1/4W
R5515	1-247-843-11	CARBON	3.3K	5%	1/4W
R5517	1-249-417-11	CARBON	1K	5%	1/4W
R5518	1-249-417-11	CARBON	1K	5%	1/4W
R5519	1-249-429-11	CARBON	10K	5%	1/4W
R5520	1-249-429-11	CARBON	10K	5%	1/4W
R5521	1-214-808-11	METAL	4.7	1%	1/2W
R5522	1-214-808-11	METAL	4.7	1%	1/2W
R5523	1-247-807-31	CARBON	100	5%	1/4W
R5524	1-249-429-11	CARBON	10K	5%	1/4W
R5525	1-214-808-11	METAL	4.7	1%	1/2W
R5526	1-247-807-31	CARBON	100	5%	1/4W
R5527	1-214-808-11	METAL	4.7	1%	1/2W
R5528	1-249-429-11	CARBON	10K	5%	1/4W
R5529	1-214-808-11	METAL	4.7	1%	1/2W
R5530	1-214-808-11	METAL	4.7	1%	1/2W
R5531	1-249-417-11	CARBON	1K	5%	1/4W
R5532	1-249-417-11	CARBON	1K	5%	1/4W
R5533	1-214-808-11	METAL	4.7	1%	1/2W
R5534	1-214-808-11	METAL	4.7	1%	1/2W
R5535	1-214-808-11	METAL	4.7	1%	1/2W
R5536	1-214-808-11	METAL	4.7	1%	1/2W
R5537	1-214-808-11	METAL	4.7	1%	1/2W
R5538	1-214-808-11	METAL	4.7	1%	1/2W
R5541	1-214-808-11	METAL	4.7	1%	1/2W
R5542	1-214-808-11	METAL	4.7	1%	1/2W
R5545	1-214-808-11	METAL	4.7	1%	1/2W
R5546	1-214-808-11	METAL	4.7	1%	1/2W
R5547	1-214-808-11	METAL	4.7	1%	1/2W
R5548	1-214-808-11	METAL	4.7	1%	1/2W
R5551	1-214-808-11	METAL	4.7	1%	1/2W
R5552	1-214-808-11	METAL	4.7	1%	1/2W
R5553	1-214-808-11	METAL	4.7	1%	1/2W
R5554	1-214-808-11	METAL	4.7	1%	1/2W
R5555	1-214-808-11	METAL	4.7	1%	1/2W
R5556	1-214-808-11	METAL	4.7	1%	1/2W
R5557	1-214-808-11	METAL	4.7	1%	1/2W
R5558	1-214-808-11	METAL	4.7	1%	1/2W
R5559	1-214-808-11	METAL	4.7	1%	1/2W
R5560	1-214-808-11	METAL	4.7	1%	1/2W
R5561	1-214-808-11	METAL	4.7	1%	1/2W
R5562	1-214-808-11	METAL	4.7	1%	1/2W
R5563	1-249-429-11	CARBON	10K	5%	1/4W
R5564	1-249-429-11	CARBON	10K	5%	1/4W
R5565	1-249-429-11	CARBON	10K	5%	1/4W
R5566	1-249-429-11	CARBON	10K	5%	1/4W
R5567	1-249-429-11	CARBON	10K	5%	1/4W
R5568	1-249-429-11	CARBON	10K	5%	1/4W
R5569	1-249-429-11	CARBON	10K	5%	1/4W
R5570	1-249-429-11	CARBON	10K	5%	1/4W
R5718	1-249-425-11	CARBON	4.7K	5%	1/4W
R5723	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5724	1-247-807-31	CARBON	100	5%	1/4W
R5725	1-216-093-91	RES-CHIP	68K	5%	1/10W
R5726	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R5727	1-216-085-91	RES-CHIP	33K	5%	1/10W
R5728	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R5729	1-216-025-11	RES-CHIP	100	5%	1/10W
R5730	1-249-431-11	CARBON	15K	5%	1/4W
R5731	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5732	1-249-441-11	CARBON	100K	5%	1/4W
R5734	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R5735	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5737	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5738	1-249-405-11	CARBON	100	5%	1/4W
R5739	1-216-025-11	RES-CHIP	100	5%	1/10W
R5740	1-215-892-11	METAL OXIDE	1K	5%	2W
R5744	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5745	1-216-099-00	RES-CHIP	120K	5%	1/10W
R5746	1-215-925-11	METAL OXIDE	22K	5%	3W
R5747	1-215-925-11	METAL OXIDE	22K	5%	3W
R5748	1-216-041-00	RES-CHIP	470	5%	1/10W
R5749	1-216-025-11	RES-CHIP	100	5%	1/10W
R5750	1-216-025-11	RES-CHIP	100	5%	1/10W
R5751	1-260-328-11	CARBON	1K	5%	1/2W
R5753	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5754	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5755	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5756	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5757	1-219-752-11	CARBON	100K	5%	1/2W
R5758	1-215-925-11	METAL OXIDE	22K	5%	3W
R5759	1-215-925-11	METAL OXIDE	22K	5%	3W
R5762	1-219-743-11	CARBON	100	5%	1/2W
R5763	1-216-065-91	RES-CHIP	4.7K	5%	1/10W

D H1 H2

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

• The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R5764	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5765	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5768	1-249-429-11	CARBON	10K	5%	1/4W
R5769	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5770	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5771	1-216-097-11	RES-CHIP	100K	5%	1/10W
R5772	1-249-429-11	CARBON	10K	5%	1/4W
⧓ R9901 ⚠		METAL			1/4W
		< SPARK GAP >			
SG5702	1-519-466-11	GAP, SPARK			
		< TRANSFORMER >			
T5101	1-437-209-11	TRANSFORMER, HORIZONTAL DRIVE			
T5102	1-419-553-11	COIL,HORIZONTAL LINEARITY(HLC)			
T5103 ⚠	1-453-335-11	TRANSFORMER ASSY, FLY BACK (NX4010//M3P4) (KP-48)			
T5103 ⚠	1-453-354-11	TRANSFORMER ASSY, FLY BACK (NX4010//M3Q4) (KP-61)			
T5104	1-435-439-11	TRANSFORMER, FERRITE (PMT)			
**********					
*	A-1372-757-A	H1 BOARD, COMPLETE **********			
*	4-072-004-01	HOLDER, LED			
		< CAPACITOR >			
C3101	1-126-157-11	ELECT	10µF	20%	16V
		< CONNECTOR >			
CN3101 *	1-564-519-11	PLUG, CONNECTOR 4P			
CN3102 *	1-564-525-11	PLUG, CONNECTOR 10P			
CN3103 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P			
CN3104 *	1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P			
		< DIODE >			
D3001	8-719-992-06	DIODE SLA-580LT3F (STANDBY)			
		< IC >			
IC3101	8-742-134-01	HYB IC SBX1981-51RP			
		< TRANSISTOR >			
Q3101	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		< RESISTOR >			
R3101	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R3102	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R3103	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R3105	1-216-041-00	RES-CHIP	470	5%	1/10W
R3106	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3111	1-216-295-91	SHORT	0		
R3112	1-216-295-91	SHORT	0		
R3116	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R3117	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
		< SWITCH >			
S3101	1-571-532-21	SWITCH, TACTIL (PROG+)			
S3102	1-571-532-21	SWITCH, TACTIL (PROG–)			
S3103	1-571-532-21	SWITCH, TACTIL (VOL+)			
S3104	1-571-532-21	SWITCH, TACTIL (VOL–)			
S3105	1-571-532-21	SWITCH, TACTIL (TV/VIDEO)			
S3106 ⚠	1-571-433-31	SWITCH, PUSH (AC POWER) (POWER)			
**********					
*	A-1372-758-A	H2 BOARD, COMPLETE **********			
		< CAPACITOR >			
C3202	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C3203	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
		< CONNECTOR >			
CN3201 *	1-564-519-11	PLUG, CONNECTOR 4P			
CN3202 *	1-564-520-11	PLUG, CONNECTOR 5P			
		< JACK >			
J3201	1-691-293-11	JACK (HEAD PHONE)			
		< COIL >			
L3201	1-414-189-31	INDUCTOR	100µH		
L3202	1-414-189-31	INDUCTOR	100µH		
		< RESISTOR >			
R3207	1-216-033-00	RES-CHIP	220	5%	1/10W
R3208	1-216-033-00	RES-CHIP	220	5%	1/10W
R3209	1-216-033-00	RES-CHIP	220	5%	1/10W
R3210	1-216-033-00	RES-CHIP	220	5%	1/10W
R3211	1-216-295-91	SHORT	0		
		< SWITCH >			
S3205	1-572-198-11	SWITCH, KEYBOARD (AUTO CONVER)			
**********					

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

H3 ZR

REF.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1372-759-A	H3 BOARD, COMPLETE			
		**********			
		< CONNECTOR >			
CN3301	* 1-564-526-31	PLUG, CONNECTOR 11P			
		< JACK >			
J3301	1-568-807-21	TERMINAL BLOCK, (S) 4P (AV4)			
		< RESISTOR >			
R3301	1-216-025-00	RES-CHIP	100	5%	1/10W
R3302	1-216-025-00	RES-CHIP	100	5%	1/10W
**********					
	* A-1390-999-A	ZR BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		< CAPACITOR >			
C7401	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C7402	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C7403	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C7404	1-126-947-11	ELECT	47µF	20%	16V
C7405	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C7406	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C7407	1-104-989-91	MYLAR	0.0022µF	10%	200V
C7408	1-104-989-91	MYLAR	0.0022µF	10%	200V
C7409	1-107-667-11	ELECT	2.2µF	20%	160V
C7410	1-130-471-00	MYLAR	0.001µF	5%	50V
C7411	1-130-471-00	MYLAR	0.001µF	5%	50V
C7412	1-107-364-11	MYLAR	0.01µF	10%	200V
C7413	1-126-968-11	ELECT	100µF	20%	50V
C7414	1-126-968-11	ELECT	100µF	20%	50V
C7415	1-107-645-11	ELECT	22µF	20%	200V
C7416	1-161-830-00	CERAMIC	0.0047µF		500V
C7418	1-126-935-11	ELECT	470µF	20%	6.3V
		< CONNECTOR >			
CN7401	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN7403	* 1-564-518-11	PLUG, CONNECTOR 3P			
CN7404	* 1-564-507-11	PLUG, CONNECTOR 4P			
CN7405	* 1-580-844-11	PIN, CONNECTOR (POWER)			
		< DIODE >			
D7401	8-719-988-61	DIODE 1SS355TE-17			
D7403	8-719-921-86	DIODE MTZJ-13			
D7404	8-719-921-86	DIODE MTZJ-13			

REF.NO.	PART NO.	DESCRIPTION			REMARK
		< DEFLECTION YOKE >			
DY7401	⚠ 1-451-465-21	DEFLECTION YOKE			
		< COIL >			
L7401	1-412-911-11	FERRITE	0µH		
L7402	1-414-187-11	INDUCTOR	47µH		
		< TRANSISTOR >			
Q7401	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7402	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7403	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7404	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7405	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7406	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q7407	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q7408	8-729-045-04	TRANSISTOR 2SC5511			
Q7409	8-729-045-05	TRANSISTOR 2SA2005			
Q7410	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		< RESISTOR >			
R7401	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R7402	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R7403	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R7404	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R7405	1-216-475-11	METAL OXIDE	120	5%	3W
R7406	1-216-073-91	RES-CHIP	10K	5%	1/10W
R7407	1-249-385-11	CARBON	2.2	5%	1/4W
R7408	1-216-475-11	METAL OXIDE	120	5%	3W
R7409	1-216-009-91	RES-CHIP	22	5%	1/10W
R7410	1-216-009-91	RES-CHIP	22	5%	1/10W
R7411	1-249-414-11	CARBON	560	5%	1/4W
R7412	1-216-033-00	RES-CHIP	220	5%	1/10W
R7413	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7414	1-216-033-00	RES-CHIP	220	5%	1/10W
R7415	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7416	1-216-001-00	RES-CHIP	10	5%	1/10W
R7417	1-249-414-11	CARBON	560	5%	1/4W
R7418	1-216-001-00	RES-CHIP	10	5%	1/10W
R7419	1-249-415-11	CARBON	680	5%	1/4W
R7420	1-249-433-11	CARBON	22K	5%	1/4W
R7421	1-249-433-11	CARBON	22K	5%	1/4W
R7422	1-249-415-11	CARBON	680	5%	1/4W
R7423	1-249-417-11	CARBON	1K	5%	1/4W
R7424	1-249-405-11	CARBON	100	5%	1/4W
R7425	1-249-385-11	CARBON	2.2	5%	1/4W
R7426	1-249-385-11	CARBON	2.2	5%	1/4W
R7427	1-249-405-11	CARBON	100	5%	1/4W
R7428	1-215-913-11	METAL OXIDE	220	5%	3W
R7431	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7432	1-216-025-11	RES-CHIP	100	5%	1/10W
R7433	1-216-009-91	RES-CHIP	22	5%	1/10W
R7434	1-216-295-91	SHORT	0		
**********					

ZG ZB

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1391-000-A	ZG BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		< CAPACITOR >			
C7601	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C7602	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C7603	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C7604	1-126-947-11	ELECT	47µF	20%	16V
C7605	1-104-989-91	MYLAR	0.0022µF	10%	200V
C7606	1-104-989-91	MYLAR	0.0022µF	10%	200V
C7607	1-107-667-11	ELECT	2.2µF	20%	160V
C7608	1-130-471-00	MYLAR	0.001µF	5%	50V
C7609	1-130-471-00	MYLAR	0.001µF	5%	50V
C7610	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C7611	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C7612	1-107-364-11	MYLAR	0.01µF	10%	200V
C7613	1-126-968-11	ELECT	100µF	20%	50V
C7614	1-126-968-11	ELECT	100µF	20%	50V
C7615	1-107-645-11	ELECT	22µF	20%	200V
C7616	1-161-830-00	CERAMIC	0.0047µF		500V
C7617	1-106-220-00	MYLAR	0.1µF	10%	100V
C7618	1-106-220-00	MYLAR	0.1µF	10%	100V
C7620	1-126-935-11	ELECT	470µF	20%	6.3V
		< CONNECTOR >			
CN7601	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN7602	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN7603	* 1-564-507-11	PLUG, CONNECTOR 4P			
CN7604	* 1-564-506-11	PLUG, CONNECTOR 3P			
CN7605	* 1-564-506-11	PLUG, CONNECTOR 3P			
CN7606	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P			
CN7607	* 1-564-506-11	PLUG, CONNECTOR 3P			
CN7608	* 1-564-507-11	PLUG, CONNECTOR 4P			
		< DIODE >			
D7601	8-719-921-86	DIODE MTZJ-13			
D7602	8-719-921-86	DIODE MTZJ-13			
D7603	8-719-988-61	DIODE 1SS355TE-17			
		< DEFLECTION YOKE >			
DY7601 ⚠	1-451-465-21	DEFLECTION YOKE			
		< COIL >			
L7601	1-412-911-11	FERRITE	0µH		
L7602	1-414-187-11	INDUCTOR	47µH		
		< TRANSISTOR >			
Q7601	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7602	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q7603	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q7604	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7605	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7606	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7607	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7608	8-729-045-04	TRANSISTOR 2SC5511			
Q7609	8-729-045-05	TRANSISTOR 2SA2005			
Q7610	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		< RESISTOR >			
R7601	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R7602	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R7603	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R7604	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R7605	1-216-475-11	METAL OXIDE	120	5%	3W
R7606	1-216-033-00	RES-CHIP	220	5%	1/10W
R7607	1-216-033-00	RES-CHIP	220	5%	1/10W
R7608	1-249-393-11	CARBON	10	5%	1/4W
R7609	1-216-001-00	RES-CHIP	10	5%	1/10W
R7610	1-249-385-11	CARBON	2.2	5%	1/4W
R7611	1-216-475-11	METAL OXIDE	120	5%	3W
R7612	1-249-414-11	CARBON	560	5%	1/4W
R7613	1-216-073-91	RES-CHIP	10K	5%	1/10W
R7614	1-249-414-11	CARBON	560	5%	1/4W
R7615	1-249-415-11	CARBON	680	5%	1/4W
R7616	1-249-433-11	CARBON	22K	5%	1/4W
R7617	1-249-433-11	CARBON	22K	5%	1/4W
R7618	1-249-415-11	CARBON	680	5%	1/4W
R7619	1-216-009-91	RES-CHIP	22	5%	1/10W
R7620	1-216-009-91	RES-CHIP	22	5%	1/10W
R7621	1-249-417-11	CARBON	1K	5%	1/4W
R7622	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7623	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7624	1-249-405-11	CARBON	100	5%	1/4W
R7625	1-249-385-11	CARBON	2.2	5%	1/4W
R7626	1-249-385-11	CARBON	2.2	5%	1/4W
R7627	1-249-405-11	CARBON	100	5%	1/4W
R7628	1-215-913-11	METAL OXIDE	220	5%	3W
R7631	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7632	1-216-025-11	RES-CHIP	100	5%	1/10W
R7633	1-216-009-91	RES-CHIP	22	5%	1/10W
R7634	1-216-295-91	SHORT	0		
	* A-1391-001-A	ZB BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		< CAPACITOR >			
C7801	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C7802	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C7803	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C7804	1-126-947-11	ELECT	47µF	20%	16V
C7805	1-104-989-91	MYLAR	0.0022µF	10%	200V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
C7806	1-104-989-91	MYLAR	0.0022µF	10%	200V
C7807	1-107-667-11	ELECT	2.2µF	20%	160V
C7808	1-130-471-00	MYLAR	0.001µF	5%	50V
C7809	1-130-471-00	MYLAR	0.001µF	5%	50V
C7810	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C7811	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C7812	1-107-364-11	MYLAR	0.01µF	10%	200V
C7813	1-126-968-11	ELECT	100µF	20%	50V
C7814	1-126-968-11	ELECT	100µF	20%	50V
C7815	1-107-645-11	ELECT	22µF	20%	200V
C7816	1-161-830-00	CERAMIC	0.0047µF		500V
C7818	1-126-935-11	ELECT	470µF	20%	6.3V
		< CONNECTOR >			
CN7801	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN7802	* 1-564-507-11	PLUG, CONNECTOR 4P			
CN7803	* 1-564-506-11	PLUG, CONNECTOR 3P			
CN7804	* 1-580-844-11	PIN, CONNECTOR (POWER)			
CN7805	* 1-564-506-11	PLUG, CONNECTOR 3P			
		< DIODE >			
D7801	8-719-921-86	DIODE MTZJ-13			
D7802	8-719-921-86	DIODE MTZJ-13			
D7803	8-719-988-61	DIODE 1SS355TE-17			
		< DEFLECTION YOKE >			
DY7801	⚠ 1-451-465-21	DEFLECTION YOKE			
		< COIL >			
L7801	1-412-911-11	FERRITE	0µH		
L7802	1-414-187-11	INDUCTOR	47µH		
		< TRANSISTOR >			
Q7801	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7802	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q7803	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q7804	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7805	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7806	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7807	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7808	8-729-045-04	TRANSISTOR 2SC5511			
Q7809	8-729-045-05	TRANSISTOR 2SA2005			
Q7810	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		< RESISTOR >			
R7801	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R7802	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R7803	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R7804	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R7805	1-216-033-00	RES-CHIP	220	5%	1/10W
R7806	1-216-033-00	RES-CHIP	220	5%	1/10W
R7807	1-216-475-11	METAL OXIDE	120	5%	3W
R7808	1-216-001-00	RES-CHIP	10	5%	1/10W
R7809	1-216-001-00	RES-CHIP	10	5%	1/10W
R7810	1-249-385-11	CARBON	2.2	5%	1/4W
R7811	1-216-475-11	METAL OXIDE	120	5%	3W
R7812	1-216-073-91	RES-CHIP	10K	5%	1/10W
R7813	1-249-414-11	CARBON	560	5%	1/4W
R7814	1-216-009-91	RES-CHIP	22	5%	1/10W
R7815	1-216-009-91	RES-CHIP	22	5%	1/10W
R7816	1-249-414-11	CARBON	560	5%	1/4W
R7817	1-249-415-11	CARBON	680	5%	1/4W
R7818	1-249-433-11	CARBON	22K	5%	1/4W
R7819	1-249-433-11	CARBON	22K	5%	1/4W
R7820	1-249-415-11	CARBON	680	5%	1/4W
R7821	1-249-417-11	CARBON	1K	5%	1/4W
R7822	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7823	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7824	1-249-405-11	CARBON	100	5%	1/4W
R7825	1-249-385-11	CARBON	2.2	5%	1/4W
R7826	1-249-385-11	CARBON	2.2	5%	1/4W
R7827	1-249-405-11	CARBON	100	5%	1/4W
R7828	1-215-913-11	METAL OXIDE	220	5%	3W
R7831	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7832	1-216-025-11	RES-CHIP	100	5%	1/10W
R7833	1-216-009-91	RES-CHIP	22	5%	1/10W
R7834	1-216-295-91	SHORT	0		

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* A-1394-969-A S BOARD, COMPLETE
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< CAPACITOR >

C4701	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C4702	1-163-241-11	CERAMIC CHIP	39pF	5%	50V
C4708	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V
C4709	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V
C4710	1-126-947-11	ELECT	47µF	20%	16V
C4711	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4712	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4713	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4714	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C4715	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C4716	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C4717	1-110-501-11	CERAMIC CHIP	0.33µF	10%	16V
C4718	1-164-506-11	CERAMIC CHIP	4.7µF	16V	
C4719	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4722	1-126-947-11	ELECT	47µF	20%	16V
C4723	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4727	1-164-506-11	CERAMIC CHIP	4.7µF	16V	
C4728	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C4729	1-164-505-11	CERAMIC CHIP	2.2µF	16V	
C4731	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C4732	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C4735	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C4736	1-126-964-11	ELECT	10µF	20%	50V

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REF.NO.	PART NO.	DESCRIPTION				REMARK
C4737	1-126-964-11	ELECT	10µF	20%	50V	
C4738	1-126-933-11	ELECT	100µF	20%	16V	
C4739	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C4740	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C4741	1-126-933-11	ELECT	100µF	20%	16V	
C4742	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C4743	1-126-947-11	ELECT	47µF	20%	16V	
C4744	1-126-964-11	ELECT	10µF	20%	50V	
C4745	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V	
C4746	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V	
C4747	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V	
C4748	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V	
C4751	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V	
C4752	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V	
C4755	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	
C4756	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V	
C4757	1-107-682-11	CERAMIC CHIP	1µF	10%	16V	
C4758	1-107-682-11	CERAMIC CHIP	1µF	10%	16V	
C4759	1-107-682-11	CERAMIC CHIP	1µF	10%	16V	
C4761	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C4762	1-164-505-11	CERAMIC CHIP	2.2µF	16V		
C4763	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C4764	1-126-947-11	ELECT	47µF	20%	16V	
C4766	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V	
C4767	1-163-007-11	CERAMIC CHIP	680pF	10%	50V	
C4768	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V	
C4769	1-163-007-11	CERAMIC CHIP	680pF	10%	50V	
		< FILTER >				
CF4701	1-781-328-21	TRAP, CERAMIC (6.5MHz)				
CF4702	1-760-106-11	FILTER, CERAMIC (5.5MHz)				
CF4703	1-567-100-00	FILTER, CERAMIC (6.0MHz)				
CF4704	1-760-450-21	FILTER, CERAMIC (6.5MHz)				
		< CONNECTOR >				
CN4701	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P				
		< DIODE >				
D4702	8-719-083-82	DIODE UDZS-TE17-12B				
D4703	8-719-083-82	DIODE UDZS-TE17-12B				
D4704	8-719-047-16	DIODE BAS216				
D4705	8-719-421-57	DIODE MA73-TX				
D4706	8-719-421-57	DIODE MA73-TX				
D4707	8-719-421-57	DIODE MA73-TX				
		< FERRITE BEAD >				
FB4701	1-414-235-22	FERRITE	0µH			
		< FILTER >				
FL4701	1-233-764-21	FILTER				
FL4704	1-236-071-11	ENCAPSULATED COMPONENT				
FL4705	1-236-071-11	ENCAPSULATED COMPONENT				
		< IC >				
IC4702	8-759-830-05	IC MSP3410G-B8-QA				
IC4703	8-759-701-36	IC NJM3403AM				
IC4704	8-759-478-90	IC U2861B-MFP-G3				
IC4705	8-752-072-94	IC CXA1875AM-T4				
		< COIL >				
L4701	1-414-183-41	INDUCTOR	10µH			
L4702	1-414-189-31	INDUCTOR	100µH			
L4703	1-414-189-31	INDUCTOR	100µH			
		< TRANSISTOR >				
Q4701	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q4702	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q4703	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q4706	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q4707	1-801-806-11	TRANSISTOR TR DTC144EKA				
Q4708	1-801-806-11	TRANSISTOR TR DTC144EKA				
Q4709	1-801-806-11	TRANSISTOR TR DTC144EKA				
Q4710	1-801-806-11	TRANSISTOR TR DTC144EKA				
Q4711	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				
Q4712	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				
		< RESISTOR >				
R4701	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	
R4702	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R4703	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R4704	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	
R4706	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R4707	1-216-037-00	RES-CHIP	330	5%	1/10W	
R4709	1-216-295-91	SHORT	0			
R4710	1-216-025-11	RES-CHIP	100	5%	1/10W	
R4711	1-216-025-11	RES-CHIP	100	5%	1/10W	
R4712	1-216-025-11	RES-CHIP	100	5%	1/10W	
R4715	1-216-025-11	RES-CHIP	100	5%	1/10W	
R4720	1-216-295-91	SHORT	0			
R4725	1-216-025-11	RES-CHIP	100	5%	1/10W	
R4726	1-216-295-91	SHORT	0			
R4727	1-216-025-11	RES-CHIP	100	5%	1/10W	
R4730	1-216-081-00	RES-CHIP	22K	5%	1/10W	
R4731	1-216-295-91	SHORT	0			
R4732	1-216-025-11	RES-CHIP	100	5%	1/10W	
R4733	1-216-025-11	RES-CHIP	100	5%	1/10W	
R4734	1-216-067-00	RES-CHIP	5.6K	5%	1/10W	
R4737	1-216-295-91	SHORT	0			
R4738	1-216-295-91	SHORT	0			
R4739	1-216-295-91	SHORT	0			
R4740	1-216-295-91	SHORT	0			
R4741	1-216-025-11	RES-CHIP	100	5%	1/10W	
R4742	1-216-025-11	RES-CHIP	100	5%	1/10W	
R4743	1-216-025-11	RES-CHIP	100	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION			REMARK
R4747	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R4748	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R4749	1-216-089-91	RES-CHIP	47K	5%	1/10W
R4752	1-216-043-91	RES-CHIP	560	5%	1/10W
R4757	1-216-089-91	RES-CHIP	47K	5%	1/10W
R4758	1-216-089-91	RES-CHIP	47K	5%	1/10W
R4759	1-216-089-91	RES-CHIP	47K	5%	1/10W
R4760	1-216-089-91	RES-CHIP	47K	5%	1/10W
R4761	1-216-089-91	RES-CHIP	47K	5%	1/10W
R4769	1-216-025-11	RES-CHIP	100	5%	1/10W
R4773	1-216-295-91	SHORT	0		
R4777	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4778	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4779	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R4780	1-216-295-91	SHORT	0		
R4781	1-216-035-00	RES-CHIP	270	5%	1/10W
R4782	1-216-081-00	RES-CHIP	22K	5%	1/10W
R4783	1-216-081-00	RES-CHIP	22K	5%	1/10W
R4784	1-216-081-00	RES-CHIP	22K	5%	1/10W
R4785	1-216-295-91	SHORT	0		
R4786	1-216-043-91	RES-CHIP	560	5%	1/10W
R4787	1-216-043-91	RES-CHIP	560	5%	1/10W
R4788	1-216-043-91	RES-CHIP	560	5%	1/10W
R4789	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R4790	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R4791	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R4792	1-216-025-11	RES-CHIP	100	5%	1/10W
R4793	1-216-025-11	RES-CHIP	100	5%	1/10W
R4794	1-216-295-91	SHORT	0		
R4796	1-216-295-91	SHORT	0		
R4797	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4798	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4799	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4800	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4801	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4802	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
		< CRYSTAL >			
X4701	1-781-148-21	VIBRATOR, CRYSTAL (18.432MHz)			
**********					
		* A-1394-970-A J BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C8301	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C8302	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8305	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8306	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C8308	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8309	1-126-961-11	ELECT	2.2µF	20%	50V
C8311	1-126-947-11	ELECT	47µF	20%	16V
C8313	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8314	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C8318	1-126-947-11	ELECT	47µF	20%	16V
C8319	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8321	1-126-947-11	ELECT	47µF	20%	16V
C8322	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V
C8323	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8324	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8325	1-126-964-11	ELECT	10µF	20%	50V
C8327	1-107-682-11	CERAMIC CHIP	1µF	10%	16V
C8329	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8331	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8335	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8336	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8337	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8338	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8345	1-107-682-11	CERAMIC CHIP	1µF	10%	16V
C8346	1-126-963-11	ELECT	4.7µF	20%	50V
C8347	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8348	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8349	1-126-947-11	ELECT	47µF	20%	16V
C8350	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8351	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8352	1-126-947-11	ELECT	47µF	20%	16V
C8353	1-164-346-11	CERAMIC CHIP	1µF	16V	
C8354	1-164-346-11	CERAMIC CHIP	1µF	16V	
C8355	1-126-935-11	ELECT	470µF	20%	16V
C8356	1-126-933-11	ELECT	100µF	20%	16V
C8357	1-126-933-11	ELECT	100µF	20%	16V
C8358	1-126-933-11	ELECT	100µF	20%	16V
C8359	1-126-933-11	ELECT	100µF	20%	16V
C8360	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8361	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8401	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C8402	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C8403	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8404	1-126-961-11	ELECT	2.2µF	20%	50V
C8405	1-126-947-11	ELECT	47µF	20%	16V
C8406	1-126-947-11	ELECT	47µF	20%	16V
C8408	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8410	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8411	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8414	1-126-947-11	ELECT	47µF	20%	16V
C8415	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V
C8416	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8417	1-107-682-11	CERAMIC CHIP	1µF	10%	16V
C8418	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8419	1-126-964-11	ELECT	10µF	20%	50V
C8422	1-126-935-11	ELECT	470µF	20%	16V
C8423	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8424	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8427	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8431	1-107-715-11	ELECT	22µF	20%	25V
C8437	1-126-963-11	ELECT	4.7µF	20%	50V
C8441	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V
C8442	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V
C8444	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8445	1-163-117-00	CERAMIC CHIP	100pF	5%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C8446	1-163-117-00	CERAMIC CHIP	100pF	5%	50V
C8447	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8448	1-126-933-11	ELECT	100µF	20%	16V
C8449	1-126-933-11	ELECT	100µF	20%	16V
C8450	1-126-935-11	ELECT	470µF	20%	16V
C8451	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8452	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8453	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8454	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8455	1-126-964-11	ELECT	10µF	20%	50V
C8456	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8457	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8458	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8459	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8460	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8461	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8462	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8463	1-126-947-11	ELECT	47µF	20%	16V
C8464	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8465	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8466	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8470	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8479	1-164-505-11	CERAMIC CHIP	2.2µF	16V	
C8486	1-164-505-11	CERAMIC CHIP	2.2µF	16V	
C8491	1-164-505-11	CERAMIC CHIP	2.2µF	16V	
C8492	1-164-505-11	CERAMIC CHIP	2.2µF	16V	
C8493	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8494	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8495	1-126-964-11	ELECT	10µF	20%	50V
C8497	1-126-947-11	ELECT	47µF	20%	16V
C8501	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8502	1-126-947-11	ELECT	47µF	20%	16V
C8503	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8504	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8505	1-126-933-11	ELECT	100µF	20%	16V
C8506	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C8507	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8508	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8509	1-126-933-11	ELECT	100µF	20%	16V
C8510	1-126-947-11	ELECT	47µF	20%	16V
C8511	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8512	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8513	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8514	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8515	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8516	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8517	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8518	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8519	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8520	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8521	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8524	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8525	1-126-947-11	ELECT	47µF	20%	16V
C8526	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8601	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8602	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8603	1-126-947-11	ELECT	47µF	20%	16V
C8604	1-126-947-11	ELECT	47µF	20%	16V
C8605	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8606	1-126-947-11	ELECT	47µF	20%	16V
C8607	1-126-933-11	ELECT	100µF	20%	16V
C8608	1-126-947-11	ELECT	47µF	20%	16V
C8609	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8613	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8614	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8615	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
C8616	1-126-947-11	ELECT	47µF	20%	16V
C8618	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8620	1-126-947-11	ELECT	47µF	20%	16V
C8621	1-126-947-11	ELECT	47µF	20%	16V
C8622	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8623	1-126-947-11	ELECT	47µF	20%	16V
C8624	1-126-947-11	ELECT	47µF	20%	16V
C8625	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8627	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8628	1-126-947-11	ELECT	47µF	20%	16V
C8629	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8631	1-126-947-11	ELECT	47µF	20%	16V
C8632	1-126-947-11	ELECT	47µF	20%	16V
C8635	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C8636	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C8638	1-164-505-11	CERAMIC CHIP	2.2µF	16V	
C8639	1-164-690-91	CERAMIC CHIP	0.0022µF	5%	50V
C8700	1-126-964-11	ELECT	10µF	20%	50V
C8703	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8708	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8709	1-126-964-11	ELECT	10µF	20%	50V
C8805	1-163-253-11	CERAMIC CHIP	120pF	5%	50V
C8806	1-163-249-11	CERAMIC CHIP	82pF	5%	50V
C8807	1-163-249-11	CERAMIC CHIP	82pF	5%	50V
C8808	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V
C8811	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8812	1-126-947-11	ELECT	47µF	20%	25V
C8814	1-126-235-11	ELECT	100µF	20%	16V
C8815	1-163-253-11	CERAMIC CHIP	120pF	5%	50V
C8816	1-163-249-11	CERAMIC CHIP	82pF	5%	50V
C8817	1-163-249-11	CERAMIC CHIP	82pF	5%	50V
C8818	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V
C8819	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8820	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8821	1-126-947-11	ELECT	47µF	20%	25V
C8822	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8823	1-126-933-11	ELECT	100µF	20%	16V
C8824	1-126-933-11	ELECT	100µF	20%	16V
C8825	1-126-933-11	ELECT	100µF	20%	16V
C8900	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C8901	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C8902	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C8903	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C8904	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C8905	1-163-251-11	CERAMIC CHIP	100pF	5%	50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C8906	1-163-017-00	CERAMIC CHIP 0.0047µF 10% 50V	
C8907	1-163-017-00	CERAMIC CHIP 0.0047µF 10% 50V	
C8908	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C8909	1-163-017-00	CERAMIC CHIP 0.0047µF 10% 50V	
C8910	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C8911	1-163-017-00	CERAMIC CHIP 0.0047µF 10% 50V	
C8912	1-163-009-91	CERAMIC CHIP 0.001µF 10% 50V	
C8913	1-163-009-91	CERAMIC CHIP 0.001µF 10% 50V	
C8914	1-126-947-11	ELECT 47µF 20% 16V	
C8915	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C8916	1-126-933-11	ELECT 100µF 20% 16V	
C8917	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C8918	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C8919	1-164-505-11	CERAMIC CHIP 2.2µF 16V	
C8920	1-164-505-11	CERAMIC CHIP 2.2µF 16V	
C8921	1-126-947-11	ELECT 47µF 20% 16V	
C8922	1-164-505-11	CERAMIC CHIP 2.2µF 16V	
C8923	1-126-947-11	ELECT 47µF 20% 16V	
C8924	1-164-505-11	CERAMIC CHIP 2.2µF 16V	
C8925	1-126-947-11	ELECT 47µF 20% 16V	
C8926	1-164-505-11	CERAMIC CHIP 2.2µF 16V	
C8927	1-126-947-11	ELECT 47µF 20% 16V	
C8928	1-164-505-11	CERAMIC CHIP 2.2µF 16V	
C8929	1-126-947-11	ELECT 47µF 20% 16V	
C8930	1-164-505-11	CERAMIC CHIP 2.2µF 16V	
C8931	1-126-947-11	ELECT 47µF 20% 16V	
C8932	1-164-505-11	CERAMIC CHIP 2.2µF 16V	
C8933	1-163-241-11	CERAMIC CHIP 39pF 5% 50V	
C8934	1-163-241-11	CERAMIC CHIP 39pF 5% 50V	
C8935	1-163-241-11	CERAMIC CHIP 39pF 5% 50V	
		< CONNECTOR >	
CN8101	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
CN8900	1-695-549-11	SOCKET, PIN 21P (AV1)	
CN8901	1-695-549-11	SOCKET, PIN 21P (AV2)	
CN8902	1-695-549-11	SOCKET, PIN 21P (AV3)	
CN8903 *	1-564-526-31	PLUG, CONNECTOR 11P	
		< DIODE >	
D8301	8-719-083-60	DIODE UDZSTE-174.7B	
D8302	8-719-083-60	DIODE UDZSTE-174.7B	
D8450	8-719-083-82	DIODE UDZS-TE17-12B	
D8451	8-719-083-82	DIODE UDZS-TE17-12B	
D8601	8-719-041-97	DIODE MA113-(TX)	
D8900	8-719-056-85	DIODE UDZ-TE-17- 8.2B	
D8901	8-719-056-85	DIODE UDZ-TE-17- 8.2B	
D8902	8-719-056-85	DIODE UDZ-TE-17- 8.2B	
D8903	8-719-056-85	DIODE UDZ-TE-17- 8.2B	
D8904	8-719-056-85	DIODE UDZ-TE-17- 8.2B	
D8905	8-719-056-85	DIODE UDZ-TE-17- 8.2B	
D8906	8-719-056-85	DIODE UDZ-TE-17- 8.2B	
D8907	8-719-083-82	DIODE UDZS-TE17-12B	
D8908	8-719-056-85	DIODE UDZ-TE-17- 8.2B	
D8909	8-719-056-85	DIODE UDZ-TE-17- 8.2B	
D8910	8-719-056-85	DIODE UDZ-TE-17- 8.2B	
D8911	8-719-056-85	DIODE UDZ-TE-17- 8.2B	
D8912	8-719-083-82	DIODE UDZS-TE17-12B	
D8913	8-719-083-82	DIODE UDZS-TE17-12B	
D8914	8-719-083-82	DIODE UDZS-TE17-12B	
D8915	8-719-083-82	DIODE UDZS-TE17-12B	
D8916	8-719-083-82	DIODE UDZS-TE17-12B	
D8917	8-719-083-82	DIODE UDZS-TE17-12B	
D8918	8-719-978-33	DIODE DTZ-TT11-6.8B	
D8919	8-719-978-33	DIODE DTZ-TT11-6.8B	
D8920	8-719-978-33	DIODE DTZ-TT11-6.8B	
D8921	8-719-978-33	DIODE DTZ-TT11-6.8B	
D8922	8-719-083-82	DIODE UDZS-TE17-12B	
D8923	8-719-083-82	DIODE UDZS-TE17-12B	
D8924	8-719-083-82	DIODE UDZS-TE17-12B	
D8925	8-719-083-82	DIODE UDZS-TE17-12B	
D8926	8-719-083-82	DIODE UDZS-TE17-12B	
D8927	8-719-083-82	DIODE UDZS-TE17-12B	
D8928	8-719-083-82	DIODE UDZS-TE17-12B	
D8929	8-719-083-82	DIODE UDZS-TE17-12B	
D8930	8-719-083-82	DIODE UDZS-TE17-12B	
D8931	8-719-083-82	DIODE UDZS-TE17-12B	
D8932	8-719-083-82	DIODE UDZS-TE17-12B	
D8933	8-719-083-82	DIODE UDZS-TE17-12B	
		< FILTER >	
FL8302	1-236-071-11	ENCAPSULATED COMPONENT	
FL8303	1-236-071-11	ENCAPSULATED COMPONENT	
FL8304	1-236-071-11	ENCAPSULATED COMPONENT	
FL8401	1-236-071-11	ENCAPSULATED COMPONENT	
FL8402	1-236-071-11	ENCAPSULATED COMPONENT	
FL8403	1-236-071-11	ENCAPSULATED COMPONENT	
FL8451	1-236-071-11	ENCAPSULATED COMPONENT	
FL8452	1-236-071-11	ENCAPSULATED COMPONENT	
FL8500	1-236-071-11	ENCAPSULATED COMPONENT	
FL8501	1-236-071-11	ENCAPSULATED COMPONENT	
FL8502	1-233-765-21	FILTER	
FL8503	1-233-768-21	FILTER	
FL8504	1-233-766-21	FILTER	
FL8601	1-236-071-11	ENCAPSULATED COMPONENT	
FL8602	1-233-877-11	FILTER, LOW PASS	
FL8603	1-233-504-21	FILTER, LOW PASS	
FL8604	1-233-504-21	FILTER, LOW PASS	
FL8700	1-236-071-11	ENCAPSULATED COMPONENT	
FL8701	1-236-071-11	ENCAPSULATED COMPONENT	
		< IC >	
IC8301	8-752-096-08	IC CXA2123BQ-T6	
IC8302	8-759-242-76	IC TC7W08F	
IC8303	8-759-242-76	IC TC7W08F	
IC8304	8-759-576-72	IC LF50CDT-TR	
IC8305	8-759-576-72	IC LF50CDT-TR	
IC8401	8-752-096-08	IC CXA2123BQ-T6	
IC8451	8-752-096-83	IC CXA2149AQ-TL	
IC8452	8-759-576-76	IC TDA2822D013TR	

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC8500	8-752-390-37	IC CXD2064Q-T6	
IC8601	8-759-572-04	IC TDA9178T/N1.118	
IC8602	8-759-337-26	IC MM1115XFBE	
		< JACK >	
J8901	1-565-838-11	JACK BLOCK, PIN 2P (VARIABLE OUT)	
		< COIL >	
L8101	1-402-711-11	INDUCTOR 0µH	
L8102	1-402-711-11	INDUCTOR 0µH	
L8454	1-410-478-11	INDUCTOR 47µH	
L8455	1-410-478-11	INDUCTOR 47µH	
L8552	1-414-234-22	FERRITE 0µH	
L8601	1-414-234-22	FERRITE 0µH	
L8602	1-414-187-11	INDUCTOR 47µH	
L8606	1-414-234-22	FERRITE 0µH	
L8607	1-414-234-22	FERRITE 0µH	
L8801	1-412-954-11	INDUCTOR 18µH	
L8802	1-412-954-11	INDUCTOR 18µH	
L8804	1-414-234-22	FERRITE 0µH	
L8805	1-414-234-22	FERRITE 0µH	
L8806	1-414-234-22	FERRITE 0µH	
L8919	1-414-234-22	FERRITE 0µH	
		< TRANSISTOR >	
Q8302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8309	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8311	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8451	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8452	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8501	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8502	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8503	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8504	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8601	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8602	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8603	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8604	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8605	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8606	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8607	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8609	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8610	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8611	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8612	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8614	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8615	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8616	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8620	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8621	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8623	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8624	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8625	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8626	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8627	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8628	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8629	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8630	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8631	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8632	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8633	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8634	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8635	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8636	1-801-806-11	TRANSISTOR TR DTC144EKA	
Q8637	1-801-806-11	TRANSISTOR TR DTC144EKA	
Q8638	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8639	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8640	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8804	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8805	8-729-039-67	TRANSISTOR BSS83	
Q8807	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8809	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8810	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8811	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8812	8-729-039-67	TRANSISTOR BSS83	
Q8813	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8814	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8815	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8901	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8902	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8903	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8904	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8905	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8906	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		< RESISTOR >	
R8300	1-216-295-91	SHORT 0	
R8301	1-216-025-11	RES-CHIP 100 5% 1/10W	
R8302	1-216-017-91	RES-CHIP 47 5% 1/10W	
R8303	1-216-295-91	SHORT 0	
R8306	1-216-083-00	RES-CHIP 27K 5% 1/10W	
R8307	1-216-295-91	SHORT 0	
R8309	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R8315	1-216-295-91	SHORT 0	
R8316	1-216-295-91	SHORT 0	
R8317	1-216-295-91	SHORT 0	
R8318	1-216-295-91	SHORT 0	
R8319	1-216-041-00	RES-CHIP 470 5% 1/10W	
R8321	1-216-295-91	SHORT 0	
R8323	1-216-017-91	RES-CHIP 47 5% 1/10W	
R8326	1-216-017-91	RES-CHIP 47 5% 1/10W	
R8327	1-216-121-11	RES-CHIP 1M 5% 1/10W	
R8328	1-216-025-11	RES-CHIP 100 5% 1/10W	
R8329	1-216-025-11	RES-CHIP 100 5% 1/10W	
R8336	1-216-025-11	RES-CHIP 100 5% 1/10W	
R8338	1-216-017-91	RES-CHIP 47 5% 1/10W	
R8339	1-216-017-91	RES-CHIP 47 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION			REMARK
R8340	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R8342	1-216-295-91	SHORT	0		
R8401	1-216-295-91	SHORT	0		
R8402	1-216-295-91	SHORT	0		
R8403	1-216-083-00	RES-CHIP	27K	5%	1/10W
R8405	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R8406	1-216-017-91	RES-CHIP	47	5%	1/10W
R8407	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R8409	1-216-017-91	RES-CHIP	47	5%	1/10W
R8410	1-216-025-11	RES-CHIP	100	5%	1/10W
R8411	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R8412	1-216-025-11	RES-CHIP	100	5%	1/10W
R8413	1-216-025-11	RES-CHIP	100	5%	1/10W
R8414	1-216-025-11	RES-CHIP	100	5%	1/10W
R8415	1-216-025-11	RES-CHIP	100	5%	1/10W
R8416	1-216-295-91	SHORT	0		
R8417	1-216-295-91	SHORT	0		
R8418	1-216-295-91	SHORT	0		
R8419	1-216-025-11	RES-CHIP	100	5%	1/10W
R8426	1-216-017-91	RES-CHIP	47	5%	1/10W
R8427	1-216-017-91	RES-CHIP	47	5%	1/10W
R8428	1-216-017-91	RES-CHIP	47	5%	1/10W
R8429	1-216-295-91	SHORT	0		
R8430	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8431	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8432	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8433	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8434	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8435	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8436	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R8437	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R8438	1-216-033-00	RES-CHIP	220	5%	1/10W
R8439	1-216-033-00	RES-CHIP	220	5%	1/10W
R8440	1-216-295-91	SHORT	0		
R8441	1-216-295-91	SHORT	0		
R8451	1-216-093-91	RES-CHIP	68K	5%	1/10W
R8452	1-216-093-91	RES-CHIP	68K	5%	1/10W
R8453	1-208-820-11	METAL CHIP	39K	0.5%	1/10W
R8454	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R8455	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R8458	1-216-033-00	RES-CHIP	220	5%	1/10W
R8459	1-216-033-00	RES-CHIP	220	5%	1/10W
R8466	1-216-025-11	RES-CHIP	100	5%	1/10W
R8467	1-216-025-11	RES-CHIP	100	5%	1/10W
R8468	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8469	1-216-017-91	RES-CHIP	47	5%	1/10W
R8470	1-216-022-00	RES-CHIP	75	5%	1/10W
R8474	1-216-017-91	RES-CHIP	47	5%	1/10W
R8475	1-216-022-00	RES-CHIP	75	5%	1/10W
R8477	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8478	1-216-079-00	RES-CHIP	18K	5%	1/10W
R8479	1-216-295-91	SHORT	0		
R8481	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8482	1-216-029-00	RES-CHIP	150	5%	1/10W
R8483	1-216-029-00	RES-CHIP	150	5%	1/10W
R8484	1-216-029-00	RES-CHIP	150	5%	1/10W
R8485	1-216-029-00	RES-CHIP	150	5%	1/10W
R8501	1-216-093-91	RES-CHIP	68K	5%	1/10W
R8502	1-216-083-00	RES-CHIP	27K	5%	1/10W
R8503	1-216-295-91	SHORT	0		
R8504	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8505	1-216-295-91	SHORT	0		
R8506	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8507	1-216-295-91	SHORT	0		
R8508	1-216-043-91	RES-CHIP	560	5%	1/10W
R8509	1-216-031-00	RES-CHIP	180	5%	1/10W
R8510	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R8512	1-216-295-91	SHORT	0		
R8514	1-216-017-91	RES-CHIP	47	5%	1/10W
R8517	1-216-295-91	SHORT	0		
R8519	1-216-037-00	RES-CHIP	330	5%	1/10W
R8520	1-216-041-00	RES-CHIP	470	5%	1/10W
R8521	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R8522	1-216-041-00	RES-CHIP	470	5%	1/10W
R8523	1-216-033-00	RES-CHIP	220	5%	1/10W
R8524	1-216-295-91	SHORT	0		
R8526	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R8527	1-216-047-91	RES-CHIP	820	5%	1/10W
R8528	1-216-047-91	RES-CHIP	820	5%	1/10W
R8529	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R8530	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8531	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R8532	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8533	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8534	1-216-295-91	SHORT	0		
R8535	1-216-295-91	SHORT	0		
R8536	1-216-295-91	SHORT	0		
R8537	1-216-295-91	SHORT	0		
R8600	1-216-295-91	SHORT	0		
R8601	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8602	1-216-295-91	SHORT	0		
R8603	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8604	1-216-041-00	RES-CHIP	470	5%	1/10W
R8605	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8606	1-216-025-11	RES-CHIP	100	5%	1/10W
R8607	1-216-043-91	RES-CHIP	560	5%	1/10W
R8608	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8609	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8610	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8611	1-216-041-00	RES-CHIP	470	5%	1/10W
R8612	1-216-025-11	RES-CHIP	100	5%	1/10W
R8613	1-216-025-11	RES-CHIP	100	5%	1/10W
R8614	1-216-295-91	SHORT	0		
R8616	1-216-295-91	SHORT	0		
R8617	1-208-772-11	METAL CHIP	390	0.5%	1/10W
R8618	1-208-778-11	METAL CHIP	680	0.5%	1/10W
R8619	1-216-295-91	SHORT	0		
R8621	1-216-025-11	RES-CHIP	100	5%	1/10W
R8623	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8624	1-216-041-00	RES-CHIP	470	5%	1/10W
R8625	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8626	1-216-041-00	RES-CHIP	470	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R8627	1-216-041-00	RES-CHIP	470	5%	1/10W
R8628	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8629	1-216-041-00	RES-CHIP	470	5%	1/10W
R8630	1-216-025-11	RES-CHIP	100	5%	1/10W
R8631	1-216-295-91	SHORT	0		
R8632	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8633	1-216-041-00	RES-CHIP	470	5%	1/10W
R8634	1-216-041-00	RES-CHIP	470	5%	1/10W
R8635	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8636	1-216-041-00	RES-CHIP	470	5%	1/10W
R8640	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8642	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8644	1-216-041-00	RES-CHIP	470	5%	1/10W
R8645	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8646	1-216-295-91	SHORT	0		
R8647	1-216-025-11	RES-CHIP	100	5%	1/10W
R8648	1-216-025-11	RES-CHIP	100	5%	1/10W
R8649	1-216-079-00	RES-CHIP	18K	5%	1/10W
R8650	1-216-295-91	SHORT	0		
R8652	1-216-037-00	RES-CHIP	330	5%	1/10W
R8653	1-216-041-00	RES-CHIP	470	5%	1/10W
R8654	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R8655	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8659	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8660	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8661	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8664	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8665	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R8666	1-216-295-91	SHORT	0		
R8667	1-216-043-91	RES-CHIP	560	5%	1/10W
R8670	1-216-039-00	RES-CHIP	390	5%	1/10W
R8671	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8672	1-216-295-91	SHORT	0		
R8673	1-216-079-00	RES-CHIP	18K	5%	1/10W
R8675	1-216-037-00	RES-CHIP	330	5%	1/10W
R8676	1-216-295-91	SHORT	0		
R8677	1-216-041-00	RES-CHIP	470	5%	1/10W
R8678	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R8679	1-216-041-00	RES-CHIP	470	5%	1/10W
R8680	1-216-295-91	SHORT	0		
R8681	1-216-041-00	RES-CHIP	470	5%	1/10W
R8682	1-216-031-00	RES-CHIP	180	5%	1/10W
R8683	1-216-041-00	RES-CHIP	470	5%	1/10W
R8684	1-216-295-91	SHORT	0		
R8685	1-216-041-00	RES-CHIP	470	5%	1/10W
R8686	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8687	1-216-037-00	RES-CHIP	330	5%	1/10W
R8688	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8689	1-216-041-00	RES-CHIP	470	5%	1/10W
R8690	1-216-041-00	RES-CHIP	470	5%	1/10W
R8692	1-216-041-00	RES-CHIP	470	5%	1/10W
R8693	1-216-041-00	RES-CHIP	470	5%	1/10W
R8694	1-216-041-00	RES-CHIP	470	5%	1/10W
R8695	1-216-013-00	RES-CHIP	33	5%	1/10W
R8696	1-216-013-00	RES-CHIP	33	5%	1/10W
R8697	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R8698	1-216-031-00	RES-CHIP	180	5%	1/10W
R8699	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R8710	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8711	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8712	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8713	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8714	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8715	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8716	1-216-043-91	RES-CHIP	560	5%	1/10W
R8717	1-216-037-00	RES-CHIP	330	5%	1/10W
R8718	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8719	1-216-043-91	RES-CHIP	560	5%	1/10W
R8720	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R8721	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8722	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8723	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8724	1-216-095-00	RES-CHIP	82K	5%	1/10W
R8725	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8726	1-216-295-91	SHORT	0		
R8727	1-216-045-00	RES-CHIP	680	5%	1/10W
R8728	1-216-045-00	RES-CHIP	680	5%	1/10W
R8729	1-216-033-00	RES-CHIP	220	5%	1/10W
R8730	1-216-295-91	SHORT	0		
R8801	1-216-035-00	RES-CHIP	270	5%	1/10W
R8804	1-216-033-00	RES-CHIP	220	5%	1/10W
R8805	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R8809	1-216-085-91	RES-CHIP	33K	5%	1/10W
R8810	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8812	1-216-037-00	RES-CHIP	330	5%	1/10W
R8813	1-216-037-00	RES-CHIP	330	5%	1/10W
R8815	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8816	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8818	1-216-642-11	METAL CHIP	430	0.5%	1/10W
R8821	1-216-025-11	RES-CHIP	100	5%	1/10W
R8823	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8826	1-216-295-91	SHORT	0		
R8827	1-216-295-91	SHORT	0		
R8828	1-216-029-00	RES-CHIP	150	5%	1/10W
R8831	1-216-031-00	RES-CHIP	180	5%	1/10W
R8832	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R8833	1-216-295-91	SHORT	0		
R8834	1-216-037-00	RES-CHIP	330	5%	1/10W
R8835	1-216-037-00	RES-CHIP	330	5%	1/10W
R8836	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8837	1-216-079-00	RES-CHIP	18K	5%	1/10W
R8838	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8839	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8840	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8841	1-216-642-11	METAL CHIP	430	0.5%	1/10W
R8842	1-216-025-11	RES-CHIP	100	5%	1/10W
R8843	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8844	1-216-295-91	SHORT	0		
R8845	1-216-041-00	RES-CHIP	470	5%	1/10W
R8846	1-216-041-00	RES-CHIP	470	5%	1/10W
R8847	1-216-041-00	RES-CHIP	470	5%	1/10W
R8850	1-216-295-91	SHORT	0		

REF.NO.	PART NO.	DESCRIPTION			REMARK
R8851	1-216-295-91	SHORT	0		
R8853	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8854	1-216-085-91	RES-CHIP	33K	5%	1/10W
R8900	1-216-039-00	RES-CHIP	390	5%	1/10W
R8901	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8902	1-216-039-00	RES-CHIP	390	5%	1/10W
R8903	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8904	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8905	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8906	1-216-035-00	RES-CHIP	270	5%	1/10W
R8907	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8908	1-216-035-00	RES-CHIP	270	5%	1/10W
R8909	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8910	1-216-295-91	SHORT	0		
R8911	1-216-025-11	RES-CHIP	100	5%	1/10W
R8912	1-216-295-91	SHORT	0		
R8913	1-216-022-00	RES-CHIP	75	5%	1/10W
R8914	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R8915	1-216-022-00	RES-CHIP	75	5%	1/10W
R8916	1-216-017-91	RES-CHIP	47	5%	1/10W
R8917	1-216-017-91	RES-CHIP	47	5%	1/10W
R8918	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8919	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8920	1-216-295-91	SHORT	0		
R8921	1-216-295-91	SHORT	0		
R8922	1-216-022-00	RES-CHIP	75	5%	1/10W
R8923	1-216-022-00	RES-CHIP	75	5%	1/10W
R8924	1-216-022-00	RES-CHIP	75	5%	1/10W
R8925	1-216-022-00	RES-CHIP	75	5%	1/10W
R8926	1-216-017-91	RES-CHIP	47	5%	1/10W
R8927	1-216-017-91	RES-CHIP	47	5%	1/10W
R8928	1-216-017-91	RES-CHIP	47	5%	1/10W
R8929	1-216-039-00	RES-CHIP	390	5%	1/10W
R8930	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8931	1-216-039-00	RES-CHIP	390	5%	1/10W
R8932	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8933	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8934	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8935	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8936	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8937	1-216-035-00	RES-CHIP	270	5%	1/10W
R8938	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8939	1-216-035-00	RES-CHIP	270	5%	1/10W
R8940	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8941	1-216-025-11	RES-CHIP	100	5%	1/10W
R8942	1-216-009-91	RES-CHIP	22	5%	1/10W
R8943	1-216-022-00	RES-CHIP	75	5%	1/10W
R8944	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R8945	1-216-022-00	RES-CHIP	75	5%	1/10W
R8946	1-216-017-91	RES-CHIP	47	5%	1/10W
R8947	1-216-039-00	RES-CHIP	390	5%	1/10W
R8948	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8949	1-216-022-00	RES-CHIP	75	5%	1/10W
R8950	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8951	1-216-017-91	RES-CHIP	47	5%	1/10W
R8952	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8953	1-216-035-00	RES-CHIP	270	5%	1/10W
R8954	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8955	1-216-039-00	RES-CHIP	390	5%	1/10W
R8956	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8957	1-216-025-11	RES-CHIP	100	5%	1/10W
R8958	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8959	1-216-022-00	RES-CHIP	75	5%	1/10W
R8960	1-216-017-91	RES-CHIP	47	5%	1/10W
R8961	1-216-022-00	RES-CHIP	75	5%	1/10W
R8962	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R8963	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8964	1-216-035-00	RES-CHIP	270	5%	1/10W
R8965	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8966	1-216-037-00	RES-CHIP	330	5%	1/10W
R8967	1-216-037-00	RES-CHIP	330	5%	1/10W
R8968	1-216-022-00	RES-CHIP	75	5%	1/10W
R8969	1-216-017-91	RES-CHIP	47	5%	1/10W
R8972	1-216-045-00	RES-CHIP	680	5%	1/10W
R8973	1-216-045-00	RES-CHIP	680	5%	1/10W
R8974	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8975	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8976	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8977	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8978	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R8979	1-216-041-00	RES-CHIP	470	5%	1/10W
R8981	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8982	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8983	1-216-079-00	RES-CHIP	18K	5%	1/10W
R8984	1-216-295-91	SHORT	0		
R8985	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8986	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8987	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8988	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8994	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8995	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8996	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8997	1-216-049-11	RES-CHIP	1K	5%	1/10W
		< TERMINAL BOARD >			
TB8101	1-537-712-11	TERMINAL, PUSH (CENTER SP IN)			
		< CRYSTAL >			
X8301	1-781-612-11	VIBRATOR, CRYSTAL (16.2MHz)			
X8401	1-781-612-11	VIBRATOR, CRYSTAL (16.2MHz)			
**********					
	* A-1620-144-A	B3 BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C333	1-216-295-91	SHORT	0		
C368	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C369	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C372	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C373	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C374	1-126-603-11	ELECT CHIP	4.7µF	20%	35V
C375	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C376	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C377	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C378	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C501	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C502	1-124-779-00	ELECT CHIP	10µF	20%	16V
C503	1-124-779-00	ELECT CHIP	10µF	20%	16V
C505	1-124-779-00	ELECT CHIP	10µF	20%	16V
C507	1-124-779-00	ELECT CHIP	10µF	20%	16V
C509	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C510	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C511	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C512	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C514	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C515	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C516	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C517	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C518	1-126-204-11	ELECT CHIP	47µF	20%	16V
C519	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C520	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C521	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C522	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C523	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C524	1-124-779-00	ELECT CHIP	10µF	20%	16V
C525	1-124-779-00	ELECT CHIP	10µF	20%	16V
C526	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C527	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C528	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C529	1-124-779-00	ELECT CHIP	10µF	20%	16V
C531	1-124-779-00	ELECT CHIP	10µF	20%	16V
C533	1-124-779-00	ELECT CHIP	10µF	20%	16V
C535	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C536	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C537	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C538	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C539	1-126-204-11	ELECT CHIP	47µF	20%	16V
C540	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C542	1-126-204-11	ELECT CHIP	47µF	20%	16V
C543	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C545	1-126-396-11	ELECT CHIP	47µF	20%	16V
C546	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C548	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C549	1-126-204-11	ELECT CHIP	47µF	20%	16V
C550	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C551	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C554	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C555	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C556	1-126-392-11	ELECT CHIP	100µF	20%	6.3V
C557	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C559	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C560	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C601	1-124-779-00	ELECT CHIP	10µF	20%	16V
C602	1-126-394-11	ELECT CHIP	10µF	20%	16V
C603	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C604	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C605	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C606	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C607	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C608	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C609	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C610	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C611	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C612	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C613	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C614	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C615	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C616	1-126-396-11	ELECT CHIP	47µF	20%	16V
C617	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C618	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C619	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C620	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C621	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C622	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C623	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C624	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C625	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C626	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C627	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C628	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C629	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C630	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C631	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C632	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C633	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C634	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C635	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C636	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C637	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C638	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C639	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C640	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C642	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C643	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C644	1-126-603-11	ELECT CHIP	4.7µF	20%	35V
C645	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C801	1-124-779-00	ELECT CHIP	10µF	20%	16V
C802	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C803	1-124-779-00	ELECT CHIP	10µF	20%	16V
C804	1-124-779-00	ELECT CHIP	10µF	20%	16V
C806	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C807	1-124-779-00	ELECT CHIP	10µF	20%	16V
C808	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C809	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C810	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C811	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C812	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C813	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C814	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C815	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C816	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C817	1-163-229-11	CERAMIC CHIP 12pF 5% 50V	
C818	1-163-229-11	CERAMIC CHIP 12pF 5% 50V	
C819	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C820	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C821	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C822	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C823	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C824	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C827	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C829	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C834	1-163-038-91	CERAMIC CHIP 0.1µF 25V	
C835	1-163-038-91	CERAMIC CHIP 0.1µF 25V	
C839	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C840	1-126-206-11	ELECT CHIP 100µF 20% 6.3V	
C841	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C842	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C843	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C844	1-163-038-91	CERAMIC CHIP 0.1µF 25V	
C848	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C849	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C850	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C851	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C901	1-163-038-91	CERAMIC CHIP 0.1µF 25V	
C902	1-163-038-91	CERAMIC CHIP 0.1µF 25V	
C903	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C904	1-124-779-00	ELECT CHIP 10µF 20% 16V	
C905	1-109-982-11	CERAMIC CHIP 1µF 10% 10V	
C906	1-124-779-00	ELECT CHIP 10µF 20% 16V	
C907	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
		< CONNECTOR >	
CN502	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
		< DIODE >	
D501	8-719-083-58	DIODE UDZSTE-173.9B	
		< FERRITE BEAD >	
FB501	1-414-235-11	FERRITE 0µH	
FB502	1-414-235-11	FERRITE 0µH	
FB503	1-414-235-11	FERRITE 0µH	
FB504	1-414-235-11	FERRITE 0µH	
FB601	1-414-766-21	FERRITE 0µH	
FB801	1-414-766-21	FERRITE 0µH	
FB802	1-414-766-21	FERRITE 0µH	
		< FILTER >	
FL306	1-239-558-11	FILTER, CHIP EMI	
FL501	1-233-877-11	FILTER, LOW PASS	
FL502	1-233-504-21	FILTER, LOW PASS	
FL503	1-233-504-21	FILTER, LOW PASS	
FL504	1-234-177-21	FILTER, CHIP EMI	
FL505	1-234-177-21	FILTER, CHIP EMI	
FL506	1-234-177-21	FILTER, CHIP EMI	
FL508	1-234-177-21	FILTER, CHIP EMI	
FL509	1-234-177-21	FILTER, CHIP EMI	
FL510	1-234-177-21	FILTER, CHIP EMI	
FL511	1-234-177-21	FILTER, CHIP EMI	
FL512	1-234-177-21	FILTER, CHIP EMI	
FL601	1-234-177-21	FILTER, CHIP EMI	
FL602	1-234-177-21	FILTER, CHIP EMI	
FL603	1-234-177-21	FILTER, CHIP EMI	
FL606	1-239-560-11	FILTER, CHIP EMI	
FL801	1-234-177-21	FILTER, CHIP EMI	
FL802	1-234-177-21	FILTER, CHIP EMI	
FL803	1-234-177-21	FILTER, CHIP EMI	
FL804	1-234-177-21	FILTER, CHIP EMI	
FL806	1-234-177-21	FILTER, CHIP EMI	
FL807	1-234-177-21	FILTER, CHIP EMI	
FL808	1-234-177-21	FILTER, CHIP EMI	
FL901	1-234-509-21	FILTER, LOW PASS	
FL902	1-233-876-11	FILTER, LOW PASS	
FL903	1-233-876-11	FILTER, LOW PASS	
FL904	1-234-177-21	FILTER, CHIP EMI	
FL905	1-234-177-21	FILTER, CHIP EMI	
		< IC >	
IC313	8-759-669-75	IC TLC2932IPWR	
IC314	8-759-525-10	IC TC7SET08F(TE85L)	
IC315	8-759-525-10	IC TC7SET08F(TE85L)	
IC316	8-759-525-10	IC TC7SET08F(TE85L)	
IC501	8-759-447-90	IC TLC5733AIPM	
IC504	8-759-669-78	IC TLC2933IPWR-12	
IC505	8-759-640-16	IC TC7SET04F(TE85R)	
IC506	8-759-640-16	IC TC7SET04F(TE85R)	
IC601	8-752-398-47	IC CXD2090Q	
IC602	8-759-573-19	IC MSM56V16160D-10	
IC603	8-759-669-75	IC TLC2932IPWR	
IC604	8-752-072-94	IC CXA1875AM-T4	
IC801	8-759-672-57	IC CXD9509AQ	
IC802	8-759-677-37	IC MT48LC2M32B2TG-7	
IC901	8-752-369-84	IC CXD2309Q-T6	
		< COIL >	
L304	1-412-029-11	INDUCTOR 10µH	
L305	1-412-029-11	INDUCTOR 10µH	
L501	1-412-026-11	INDUCTOR 1µH	
L502	1-412-026-11	INDUCTOR 1µH	
L503	1-412-026-11	INDUCTOR 1µH	
L504	1-412-026-11	INDUCTOR 1µH	
L505	1-412-029-11	INDUCTOR 10µH	
L506	1-412-026-11	INDUCTOR 1µH	
L508	1-412-029-11	INDUCTOR 10µH	
L509	1-412-029-11	INDUCTOR 10µH	
L511	1-412-026-11	INDUCTOR 1µH	
L512	1-412-026-11	INDUCTOR 1µH	
L604	1-412-029-11	INDUCTOR 10µH	

REF.NO.	PART NO.	DESCRIPTION			REMARK
L605	1-412-029-11	INDUCTOR	10µH		
		< TRANSISTOR >			
Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q501	8-729-216-22	TRANSISTOR 2SA1162-G			
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q503	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q510	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q511	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q512	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q513	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q514	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q515	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q516	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q517	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q518	8-729-216-22	TRANSISTOR 2SA1162-G			
Q519	1-801-806-11	TRANSISTOR TR DTC144EKA			
Q521	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q522	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q523	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q524	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q601	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q602	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q901	8-729-216-22	TRANSISTOR 2SA1162-G			
Q902	8-729-216-22	TRANSISTOR 2SA1162-G			
Q903	8-729-216-22	TRANSISTOR 2SA1162-G			
Q904	8-729-028-28	TRANSISTOR 2SK2036(TE85L)			
Q905	8-729-028-28	TRANSISTOR 2SK2036(TE85L)			
Q907	8-729-216-22	TRANSISTOR 2SA1162-G			
Q908	8-729-216-22	TRANSISTOR 2SA1162-G			
Q909	8-729-216-22	TRANSISTOR 2SA1162-G			
		< RESISTOR >			
R310	1-216-009-91	RES-CHIP	22	5%	1/10W
R334	1-216-295-91	SHORT	0		
R339	1-216-295-91	SHORT	0		
R350	1-216-295-91	SHORT	0		
R361	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R362	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R363	1-216-037-00	RES-CHIP	330	5%	1/10W
R364	1-216-295-91	SHORT	0		
R365	1-216-047-91	RES-CHIP	820	5%	1/10W
R366	1-216-049-11	RES-CHIP	1K	5%	1/10W
R367	1-216-117-00	RES-CHIP	680K	5%	1/10W
R368	1-216-117-00	RES-CHIP	680K	5%	1/10W
R369	1-216-295-91	SHORT	0		
R371	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R372	1-216-009-91	RES-CHIP	22	5%	1/10W
R373	1-216-066-00	RES-CHIP	5.1K	5%	1/10W
R501	1-216-025-11	RES-CHIP	100	5%	1/10W
R502	1-216-025-11	RES-CHIP	100	5%	1/10W
R503	1-216-295-91	SHORT	0		
R504	1-216-295-91	SHORT	0		
R505	1-216-295-91	SHORT	0		

REF.NO.	PART NO.	DESCRIPTION			REMARK
R506	1-216-025-11	RES-CHIP	100	5%	1/10W
R507	1-216-025-11	RES-CHIP	100	5%	1/10W
R508	1-216-025-11	RES-CHIP	100	5%	1/10W
R509	1-216-025-11	RES-CHIP	100	5%	1/10W
R510	1-216-043-91	RES-CHIP	560	5%	1/10W
R511	1-216-043-91	RES-CHIP	560	5%	1/10W
R512	1-216-043-91	RES-CHIP	560	5%	1/10W
R513	1-216-043-91	RES-CHIP	560	5%	1/10W
R514	1-216-043-91	RES-CHIP	560	5%	1/10W
R515	1-216-043-91	RES-CHIP	560	5%	1/10W
R516	1-216-049-11	RES-CHIP	1K	5%	1/10W
R517	1-216-049-11	RES-CHIP	1K	5%	1/10W
R518	1-216-295-91	SHORT	0		
R520	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R521	1-216-295-91	SHORT	0		
R523	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R524	1-216-295-91	SHORT	0		
R526	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R528	1-216-037-00	RES-CHIP	330	5%	1/10W
R529	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R530	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R531	1-216-031-00	RES-CHIP	180	5%	1/10W
R532	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R533	1-216-031-00	RES-CHIP	180	5%	1/10W
R534	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R535	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R536	1-216-049-11	RES-CHIP	1K	5%	1/10W
R537	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R540	1-216-049-11	RES-CHIP	1K	5%	1/10W
R548	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R549	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R550	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R551	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R552	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R553	1-216-295-91	SHORT	0		
R554	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R555	1-216-077-91	RES-CHIP	15K	5%	1/10W
R557	1-216-049-11	RES-CHIP	1K	5%	1/10W
R558	1-216-025-11	RES-CHIP	100	5%	1/10W
R559	1-216-077-91	RES-CHIP	15K	5%	1/10W
R560	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R561	1-216-043-91	RES-CHIP	560	5%	1/10W
R562	1-216-043-91	RES-CHIP	560	5%	1/10W
R563	1-216-043-91	RES-CHIP	560	5%	1/10W
R564	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R565	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R566	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R571	1-216-295-91	SHORT	0		
R572	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R575	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R576	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R577	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R578	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R579	1-216-077-91	RES-CHIP	15K	5%	1/10W
R580	1-216-295-91	SHORT	0		
R582	1-216-041-00	RES-CHIP	470	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R584	1-216-041-00	RES-CHIP	470	5%	1/10W
R586	1-216-049-11	RES-CHIP	1K	5%	1/10W
R587	1-216-049-11	RES-CHIP	1K	5%	1/10W
R589	1-216-049-11	RES-CHIP	1K	5%	1/10W
R590	1-216-049-11	RES-CHIP	1K	5%	1/10W
R591	1-216-049-11	RES-CHIP	1K	5%	1/10W
R592	1-216-049-11	RES-CHIP	1K	5%	1/10W
R594	1-216-041-00	RES-CHIP	470	5%	1/10W
R596	1-216-049-11	RES-CHIP	1K	5%	1/10W
R597	1-216-073-91	RES-CHIP	10K	5%	1/10W
R600	1-216-066-00	RES-CHIP	5.1K	5%	1/10W
R601	1-216-073-91	RES-CHIP	10K	5%	1/10W
R602	1-216-073-91	RES-CHIP	10K	5%	1/10W
R603	1-216-073-91	RES-CHIP	10K	5%	1/10W
R604	1-216-033-00	RES-CHIP	220	5%	1/10W
R605	1-216-295-91	SHORT	0		
R608	1-216-295-91	SHORT	0		
R609	1-216-073-91	RES-CHIP	10K	5%	1/10W
R610	1-216-033-00	RES-CHIP	220	5%	1/10W
R611	1-216-073-91	RES-CHIP	10K	5%	1/10W
R613	1-216-073-91	RES-CHIP	10K	5%	1/10W
R616	1-216-073-91	RES-CHIP	10K	5%	1/10W
R617	1-216-295-91	SHORT	0		
R618	1-216-295-91	SHORT	0		
R619	1-216-073-91	RES-CHIP	10K	5%	1/10W
R621	1-216-295-91	SHORT	0		
R622	1-216-295-91	SHORT	0		
R623	1-216-295-91	SHORT	0		
R625	1-216-295-91	SHORT	0		
R626	1-216-073-91	RES-CHIP	10K	5%	1/10W
R628	1-216-295-91	SHORT	0		
R629	1-216-073-91	RES-CHIP	10K	5%	1/10W
R631	1-216-295-91	SHORT	0		
R634	1-216-295-91	SHORT	0		
R635	1-216-295-91	SHORT	0		
R638	1-216-295-91	SHORT	0		
R639	1-216-019-00	RES-CHIP	56	5%	1/10W
R640	1-216-009-91	RES-CHIP	22	5%	1/10W
R642	1-216-295-91	SHORT	0		
R643	1-216-295-91	SHORT	0		
R645	1-216-295-91	SHORT	0		
R651	1-216-295-91	SHORT	0		
R653	1-216-025-11	RES-CHIP	100	5%	1/10W
R654	1-216-033-00	RES-CHIP	220	5%	1/10W
R655	1-216-295-91	SHORT	0		
R657	1-216-009-91	RES-CHIP	22	5%	1/10W
R658	1-216-049-11	RES-CHIP	1K	5%	1/10W
R659	1-216-025-11	RES-CHIP	100	5%	1/10W
R660	1-216-025-11	RES-CHIP	100	5%	1/10W
R661	1-216-025-11	RES-CHIP	100	5%	1/10W
R664	1-216-009-91	RES-CHIP	22	5%	1/10W
R665	1-216-035-00	RES-CHIP	270	5%	1/10W
R666	1-216-646-11	METAL CHIP	620	0.5%	1/10W
R667	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R668	1-216-009-91	RES-CHIP	22	5%	1/10W
R670	1-216-295-91	SHORT	0		
R671	1-216-073-91	RES-CHIP	10K	5%	1/10W
R672	1-216-073-91	RES-CHIP	10K	5%	1/10W
R673	1-216-073-91	RES-CHIP	10K	5%	1/10W
R674	1-216-073-91	RES-CHIP	10K	5%	1/10W
R675	1-216-073-91	RES-CHIP	10K	5%	1/10W
R676	1-216-073-91	RES-CHIP	10K	5%	1/10W
R677	1-216-073-91	RES-CHIP	10K	5%	1/10W
R678	1-216-073-91	RES-CHIP	10K	5%	1/10W
R679	1-216-073-91	RES-CHIP	10K	5%	1/10W
R680	1-216-073-91	RES-CHIP	10K	5%	1/10W
R681	1-216-073-91	RES-CHIP	10K	5%	1/10W
R682	1-216-073-91	RES-CHIP	10K	5%	1/10W
R683	1-216-073-91	RES-CHIP	10K	5%	1/10W
R684	1-216-073-91	RES-CHIP	10K	5%	1/10W
R685	1-216-073-91	RES-CHIP	10K	5%	1/10W
R686	1-216-073-91	RES-CHIP	10K	5%	1/10W
R687	1-216-295-91	SHORT	0		
R688	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R689	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R690	1-216-295-91	SHORT	0		
R691	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R692	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R693	1-216-009-91	RES-CHIP	22	5%	1/10W
R694	1-216-295-91	SHORT	0		
R695	1-216-047-91	RES-CHIP	820	5%	1/10W
R696	1-216-049-11	RES-CHIP	1K	5%	1/10W
R697	1-216-117-00	RES-CHIP	680K	5%	1/10W
R698	1-216-117-00	RES-CHIP	680K	5%	1/10W
R699	1-216-295-91	SHORT	0		
R801	1-216-009-91	RES-CHIP	22	5%	1/10W
R802	1-216-009-91	RES-CHIP	22	5%	1/10W
R804	1-216-073-91	RES-CHIP	10K	5%	1/10W
R806	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R807	1-208-778-11	METAL CHIP	680	0.5%	1/10W
R813	1-216-295-91	SHORT	0		
R814	1-216-073-91	RES-CHIP	10K	5%	1/10W
R815	1-216-073-91	RES-CHIP	10K	5%	1/10W
R816	1-216-073-91	RES-CHIP	10K	5%	1/10W
R817	1-216-017-91	RES-CHIP	47	5%	1/10W
R823	1-216-073-91	RES-CHIP	10K	5%	1/10W
R824	1-216-073-91	RES-CHIP	10K	5%	1/10W
R825	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R826	1-208-758-11	METAL CHIP	100	0.5%	1/10W
R827	1-216-607-11	METAL CHIP	15	0.5%	1/10W
R831	1-216-295-91	SHORT	0		
R832	1-216-295-91	SHORT	0		
R833	1-216-295-91	SHORT	0		
R834	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R835	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R836	1-211-960-11	METAL CHIP	22	0.5%	1/10W
R844	1-216-017-91	RES-CHIP	47	5%	1/10W
R845	1-216-017-91	RES-CHIP	47	5%	1/10W
R846	1-216-017-91	RES-CHIP	47	5%	1/10W
R847	1-216-017-91	RES-CHIP	47	5%	1/10W
R848	1-216-017-91	RES-CHIP	47	5%	1/10W
R849	1-216-017-91	RES-CHIP	47	5%	1/10W

B3

REF.NO.	PART NO.	DESCRIPTION			REMARK
R850	1-216-017-91	RES-CHIP	47	5%	1/10W
R851	1-216-017-91	RES-CHIP	47	5%	1/10W
R852	1-216-009-91	RES-CHIP	22	5%	1/10W
R853	1-216-009-91	RES-CHIP	22	5%	1/10W
R854	1-216-009-91	RES-CHIP	22	5%	1/10W
R855	1-216-009-91	RES-CHIP	22	5%	1/10W
R856	1-216-009-91	RES-CHIP	22	5%	1/10W
R857	1-216-009-91	RES-CHIP	22	5%	1/10W
R858	1-216-009-91	RES-CHIP	22	5%	1/10W
R859	1-216-009-91	RES-CHIP	22	5%	1/10W
R860	1-216-009-91	RES-CHIP	22	5%	1/10W
R861	1-216-009-91	RES-CHIP	22	5%	1/10W
R862	1-216-009-91	RES-CHIP	22	5%	1/10W
R863	1-216-009-91	RES-CHIP	22	5%	1/10W
R864	1-216-017-91	RES-CHIP	47	5%	1/10W
R865	1-216-017-91	RES-CHIP	47	5%	1/10W
R866	1-216-017-91	RES-CHIP	47	5%	1/10W
R867	1-216-017-91	RES-CHIP	47	5%	1/10W
R868	1-216-017-91	RES-CHIP	47	5%	1/10W
R869	1-216-017-91	RES-CHIP	47	5%	1/10W
R870	1-216-017-91	RES-CHIP	47	5%	1/10W
R871	1-216-017-91	RES-CHIP	47	5%	1/10W
R872	1-216-017-91	RES-CHIP	47	5%	1/10W
R873	1-216-017-91	RES-CHIP	47	5%	1/10W
R874	1-216-017-91	RES-CHIP	47	5%	1/10W
R875	1-216-017-91	RES-CHIP	47	5%	1/10W
R876	1-216-017-91	RES-CHIP	47	5%	1/10W
R877	1-216-017-91	RES-CHIP	47	5%	1/10W
R878	1-216-017-91	RES-CHIP	47	5%	1/10W
R879	1-216-017-91	RES-CHIP	47	5%	1/10W
R880	1-216-009-91	RES-CHIP	22	5%	1/10W
R881	1-216-009-91	RES-CHIP	22	5%	1/10W
R882	1-216-009-91	RES-CHIP	22	5%	1/10W
R883	1-216-009-91	RES-CHIP	22	5%	1/10W
R884	1-216-009-91	RES-CHIP	22	5%	1/10W
R885	1-216-009-91	RES-CHIP	22	5%	1/10W
R886	1-216-009-91	RES-CHIP	22	5%	1/10W
R887	1-216-009-91	RES-CHIP	22	5%	1/10W
R888	1-216-009-91	RES-CHIP	22	5%	1/10W
R889	1-216-295-91	SHORT	0		
R890	1-216-009-91	RES-CHIP	22	5%	1/10W
R891	1-216-017-91	RES-CHIP	47	5%	1/10W
R892	1-216-017-91	RES-CHIP	47	5%	1/10W
R893	1-216-017-91	RES-CHIP	47	5%	1/10W
R894	1-216-017-91	RES-CHIP	47	5%	1/10W
R895	1-216-017-91	RES-CHIP	47	5%	1/10W
R896	1-216-017-91	RES-CHIP	47	5%	1/10W
R897	1-216-017-91	RES-CHIP	47	5%	1/10W
R898	1-216-017-91	RES-CHIP	47	5%	1/10W
R901	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R902	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R903	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R904	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R905	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R906	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R907	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R908	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R909	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R910	1-216-049-11	RES-CHIP	1K	5%	1/10W
R911	1-216-049-11	RES-CHIP	1K	5%	1/10W
R912	1-216-049-11	RES-CHIP	1K	5%	1/10W
R914	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R916	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R917	1-216-295-91	SHORT	0		
R919	1-216-295-91	SHORT	0		
R940	1-216-295-91	SHORT	0		
R941	1-216-295-91	SHORT	0		
R942	1-216-037-00	RES-CHIP	330	5%	1/10W
R943	1-216-033-00	RES-CHIP	220	5%	1/10W
R951	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R952	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R956	1-216-089-91	RES-CHIP	47K	5%	1/10W
R957	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R958	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R959	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R960	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R961	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R962	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R979	1-216-295-91	SHORT	0		
R981	1-216-037-00	RES-CHIP	330	5%	1/10W
R982	1-216-037-00	RES-CHIP	330	5%	1/10W
R983	1-216-089-91	RES-CHIP	47K	5%	1/10W
R984	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R985	1-216-113-00	RES-CHIP	470K	5%	1/10W
R986	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R987	1-216-049-11	RES-CHIP	1K	5%	1/10W
R988	1-216-033-00	RES-CHIP	220	5%	1/10W
R989	1-216-081-00	RES-CHIP	22K	5%	1/10W
R990	1-216-113-00	RES-CHIP	470K	5%	1/10W
R991	1-216-295-91	SHORT	0		
R993	1-216-089-91	RES-CHIP	47K	5%	1/10W
R994	1-216-033-00	RES-CHIP	220	5%	1/10W
R995	1-216-033-00	RES-CHIP	220	5%	1/10W
R996	1-216-037-00	RES-CHIP	330	5%	1/10W
R2801	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R2802	1-208-754-11	METAL CHIP	68	0.5%	1/10W
R2803	1-216-603-11	METAL CHIP	10	0.5%	1/10W
R2804	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R2805	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R2806	1-211-960-11	METAL CHIP	22	0.5%	1/10W
R2807	1-216-295-91	SHORT	0		
R2808	1-216-295-91	SHORT	0		
R2813	1-216-295-91	SHORT	0		
R2815	1-216-295-91	SHORT	0		
R2817	1-216-295-91	SHORT	0		
R2818	1-216-295-91	SHORT	0		
R2822	1-216-295-91	SHORT	0		
		< NETWORK RESISTOR >			
RB001	1-239-409-11	NETWORK RESISTOR (CHIP)	47		

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
RB002	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB003	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB004	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB005	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB006	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB007	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB008	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB009	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB010	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB011	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB012	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB013	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB014	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB015	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB016	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB017	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB018	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB019	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB020	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB021	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB022	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB023	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB024	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB025	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB026	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB027	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB701	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB702	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB703	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB704	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB705	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB706	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
		< CRYSTAL >	
X802	1-795-112-21	VIBRATOR, CRYSTAL (17.28MHz)	

****

MISCELLANEOUS
****

⚠	1-223-925-71	RESISTOR ASSY (HIGH-VOLTAGE) (FOCUS PACK)	
⚠	1-452-790-41	NECK ASSY (NA-295)	
	1-528-864-11	BATTERY, SOLAR	
	1-529-403-11	SPEAKER (6.6 CM) (KP-48)	
	1-529-643-11	SPEAKER (13 CM) (KP-48)	
	1-529-757-11	SPEAKER (2.7 CM) (KP-61)	
	1-529-758-11	SPEAKER (8 CM) (KP-61)	
	1-529-759-11	SPEAKER (16 CM) (KP-61)	
	1-543-982-11	CORE, FERRITE	
*	1-555-110-00	CABLE, PIN	
⚠	1-765-286-11	CORD, POWER	
⚠	8-598-955-13	BLOCK ASSY, HIGH-VOLTAGE	
⚠	8-733-572-35	PICTURE TUBE 07MXC3 (R) (NEW GUN) (KP-48)	
⚠	8-733-573-35	PICTURE TUBE 07MXC4 (R) (NEW GUN) (KP-61)	
⚠	8-733-575-15	PICTURE TUBE 07MAC3 (B) (C/D CPL) (KP-48)	
⚠	8-733-576-15	PICTURE TUBE 07MAC4 (B) (C/D CPL) (KP-61)	
⚠	A-1501-273-A	SEAL (G) ASSY, MECHANICAL	

****

ACCESSORIES AND PACKING MATERIALS
****

*	4-030-895-01	JOINT
*	4-041-423-11	SHEET, PROTECTION (KP-48)
*	4-055-672-01	BAG, PROTCTION (KP-48)
*	4-055-673-01	SHEET, PROTECTION (KP-61)
*	4-059-461-01	BAG, PROTECTION (KP-61)
	4-075-410-12	MANUAL, INSTRUCTION (ENGLISH, GERMAN, ITALIAN, FRENCH, DUTCH, GREEK, TURKISH)
	4-075-410-22	MANUAL, INSTRUCTION (SPANISH, PORTUGUESE, DANISH, NORWEGIAN, SWEDISH, FINNISH)
	4-075-410-41	MANUAL, INSTRUCTION (ENGLISH, CZECH, POLISH, HUNGARIAN, RUSSIAN, BULGARIAN)
*	4-076-594-11	INDIVIDUAL CARTON (KP-61)
*	4-076-595-01	TRAY (KP-61)
*	4-076-598-01	CUSHION (UPPER) (ASSY) (KP-61)
*	4-076-599-01	CUSHION (LOWER) (ASSY) (KP-61)
*	4-079-299-01	SHEET, OVER PROTECTION (KP-61)
*	4-206-447-01	TRAY (KP-48)
*	4-206-450-01	CUSHION UPPER (KP-48)
*	4-206-454-01	CUSHION LOWER (KP-48)
*	4-206-456-01	INDIVIDUAL CARTON (KP-48)

****

REMOTE COMMANDER
****

	1-476-360-11	COMMANDER, STANDARD (RM-903)

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SONY

4-075-410-**12**(1)

407541012

100 HZ Projection TV

Instruction Manual GB

Mode d'emploi FR

Bedienungsanleitung DE

Manuale d'Istruzioni IT

Gebruiksaanwijzing NL

Οδηγίες Χρήσης GR

Kullanım Kılavuzu TR

KP-61PS1
KP-61PS2
KP-53PS1
KP-48PS1
KP-48PS2

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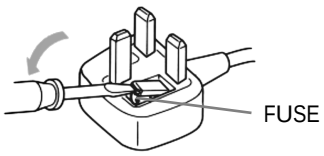
NOTICE FOR CUSTOMERS IN THE UNITED KINGDOM

A moulded plug complying with BS1363 is fitted to this equipment for your safety and convenience.

Should the fuse in the plug supplied need to be replaced, a 5 AMP fuse approved by ASTA or BSI to BS 1362 (i.e. marked with ⓐ or ⓑ must be used.

When an alternative type of plug is used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.

If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service centre.



How to replace the fuse

Open the fuse compartment with a blade screwdriver, and replace the fuse.

- **IMPORTANT**

  If the plug supplied is not suitable for the socket outlets in your home, it should be cut off and an appropriate plug fitted in accordance with the following instructions:

  The wires in this mains lead are coloured in accordance with the following code:

  Blue Neutral

  Brown Live

  As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

  The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. Do not connect either wire to the earth terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green and yellow.

WARNING

- To prevent shock hazard, do not insert the plug cut off from the mains lead into a socket outlet. This plug cannot be used and should be destroyed.
- To prevent fire or shock hazard, do not expose the unit to rain or moisture.
- Dangerously high voltages are present inside the set. Do not open the cabinet. Refer servicing to qualified personnel only.

Introduction

Thank you for choosing this Sony 100Hz Projection TV.
Before operating the projection TV, please read this manual thoroughly and retain it for future reference.

• Symbols used in the manual:
- Informs you of possible hazards.
- Important information.
- Information on a feature.
- **1,2...** Sequence of instructions.
- Shaded buttons on the remote control show the buttons you have to press to follow the sequence of instructions.
- Informs you of the result of the instructions.

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Optional Connections

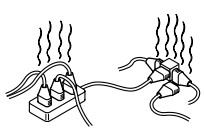
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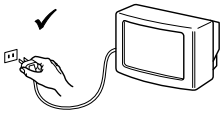
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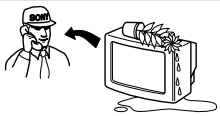
Safety Information



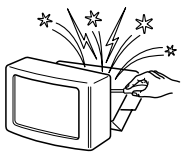
This set is to operate on a 220-240V AC supply only. Take care not to connect too many appliances to the same power socket as this could result in fire or electric shock.



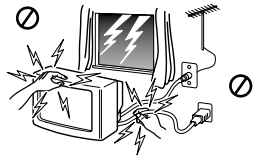
For environmental and safety reasons, it is recommended that the TV set is not left in standby mode when not in use. Disconnect from the mains.



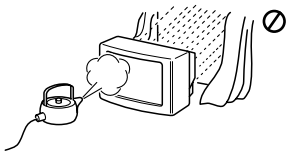
Never push objects of any kind into the set as this could result in a fire or electric shock. Never spill liquid of any kind on the set. If any liquid or solid object does fall through, do not operate the TV. Have it checked immediately by qualified personnel.



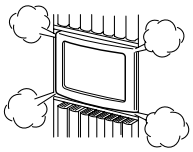
Do not open the cabinet and the rear cover of the TV. Refer to qualified service personnel only.



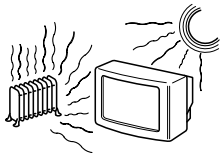
For your own safety, do not touch any part of the TV, power lead or aerial lead during lightning storms.



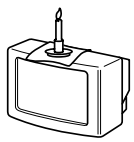
To prevent fire or shock hazard, do not expose the TV to rain or moisture.



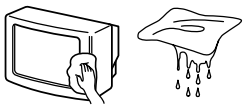
Do not cover the ventilation openings of the TV For ventilation, leave a space of at least 10cm all around the set.



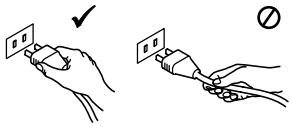
Never place the TV in hot, humid or excessively dusty places. Do not install the TV where it may be exposed to mechanical vibrations.



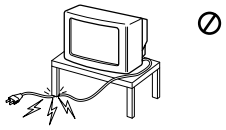
To prevent fire, keep inflammable objects or naked lights (eg candles) away from the TV.



Clean the TV with a soft, lightly dampened cloth. Do not use benzine, thinner or any other chemicals to clean the TV. Do not scratch the TV screen. As a safety precaution, unplug the TV before cleaning it.



Pull out the power lead by the plug. Do not pull on the power lead itself.



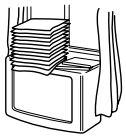
Take care not to place heavy objects on the power lead as this could result in damage.
We recommend you wind any excess lead around the holders provided on the rear of the TV.



Place the TV on a secure stable stand. Do not allow children to climb on to it. Do not place the TV on its side or face up.



Unplug the power lead before moving the TV. Avoid uneven surfaces, quick steps or excessive force. If the set has been dropped or damaged, have it checked immediately by qualified service personnel.

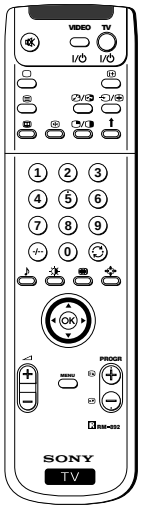


Do not cover the ventilation openings of the TV with items such as curtains or newspapers etc.

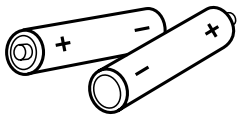
Additional Safety Information

- After transporting the projection TV directly from a cold to a warm location, or if the room temperature has changed suddenly, pictures may be blurred or show poor colour over portions of the picture. This is because moisture has condensed on the mirrors or lenses inside the projection TV. Let the moisture evaporate before using the projection TV.
- To obtain a clear picture, do not expose the screen to direct illumination or direct sunlight. If possible, use spot lighting directed down from the ceiling.
- Displaying a still picture for long periods of time, for instance, when operating a video game or personal computer and viewing a programme in 16:9 mode, may damage the picture tube. To avoid this, keep the picture contrast level low.
- Avoid touching the screen, and take care not to scratch the surface with hard objects.

Checking the Accessories Supplied



One Remote Control
(RM-892 or RM-903)

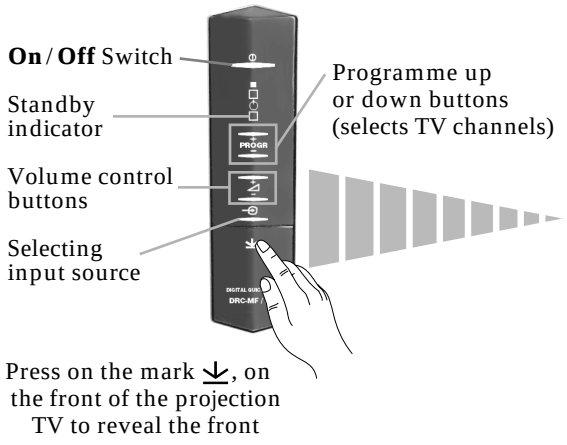


Two batteries (R6 type)

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Overview of Projection TV Buttons





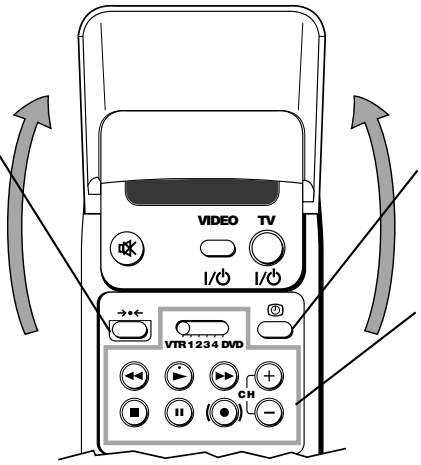
(left side connectors)



(right side connectors)



Overview of Remote Control Buttons



Resetting to factory set levels
Press not only to return picture and sound settings to factory-set levels, but also to re-install the projection TV as the first time it was switched on.
After the "Language / Country" menu appeared on the screen, proceed in the same way as described in the section "Switching on the Projection TV and automatically Tuning" of this instruction manual.

Displaying the time
Press to switch the time on or off (available only when teletext is broadcast).

VCR operation
For more details, please refer to the section "Remote Control of other Sony Equipment".

VCR on/off
Press to switch your VCR on or off.

Muting the Sound
Press to mute TV sound.
Press again to restore the sound.

Selecting TV mode
Press to switch off Teletext or video input.

PAP (Picture And Picture)
For more details, please refer to the section "Using PAP (Picture And Picture)".

Selecting Teletext
Press to switch on Teletext.

Displaying EPG
Press to display the Electronic Programme Guide (EPG). Press again to switch off EPG.

Freezing the picture
Press to freeze the picture. Press again to return to the normal picture.

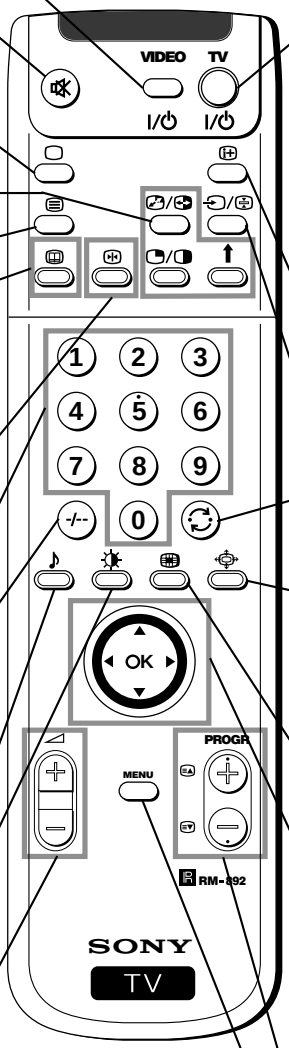
Selecting channels
Press to select channels.

For double-digit programme numbers, e.g. 23, press -/-- first, then the buttons 2 and 3. If you enter an incorrect first digit, this should be corrected by entering another digit (0-9) and then selecting -/-- button again to enter the programme number of your choice.

Selecting Sound mode
Press repeatedly to change the sound mode.

Selecting Picture mode
Press repeatedly to change the picture mode.

Adjusting TV Volume
Press to adjust the volume of the TV.



To Temporarily Switch Off projection TV
Press to temporarily switch off TV (the standby indicator ⏻ on projection TV lights up). Press again to switch on TV from standby mode.
To save energy we recommend switching off completely when TV is not in use.

⚠ After 15-30 minutes without a signal and without any button being pressed, the projection TV switches automatically into standby mode.

Displaying On Screen Information
Press to display all on-screen indications.
Press again to cancel.

Selecting Input source
Press repeatedly until the desired input symbol of the source appears on the screen.

Back to the channel last watched
Press to watch the last channel selected (watched for at least 5 seconds).

Selecting Screen format
Press repeteadly to change the format of the screen 4:3 for a conventional 4:3 picture or 16:9 for a imitation of wide screen effect. 16:9 picture is available only if you have selected Digital Mode DRC 100 (PAL mode) in the Picture Adjustment menu.

Displaying Multi PIP (Picture In Picture)
Press to display Multi PIP mode. Press again to cancel.

Joystick for menu selection
- *When MENU is switched on:*
  - ▲ Scroll Up
  - ▼ Scroll Down
  - ◄ Previous menu or selection
  - ► Next menu or selection
  - **OK** Confirms your selection
- *When MENU is switched off:*
  - ◄ Return to the last menu screen.
  - **OK** Shows a channel overview

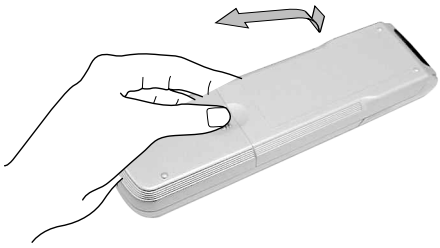
Selecting channels
Press to select the next or previous channel.

Displaying the menu system
Press to display the menu on the screen. Press again to remove the menu display from the screen.

ⓘ Besides TV functions, all coloured buttons as well as green symbols are also used for Teletext operation. For more details, please refer to the "Teletext" section of this instruction manual.

Inserting Batteries into the Remote Control

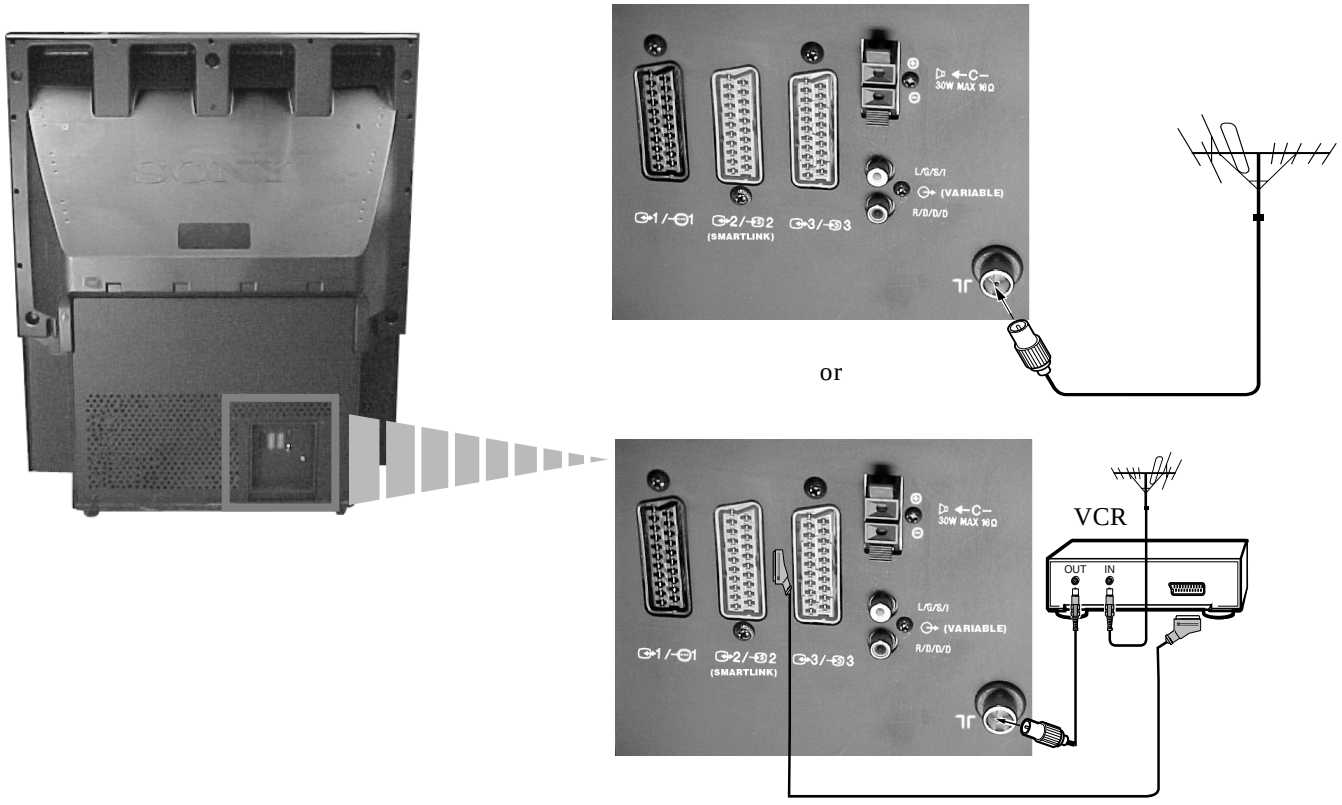
⚠ Make sure you insert the batteries using the correct polarities.
Always remember to dispose of used batteries in an environmental friendly way.





Connecting the Aerial and VCR

ⓘ Connecting cables are not supplied.



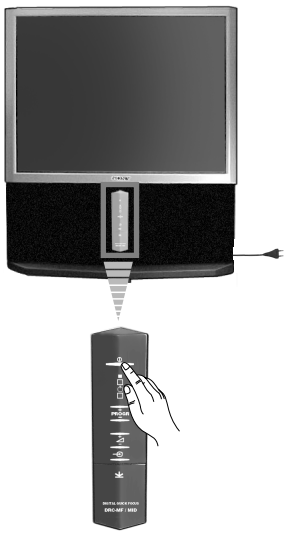
ⓘ The Scart lead is optional.
If you use this optional connection it can improve picture and sound quality when using a VCR.

⚠ If you do not use a SCART lead, after automatically tuning the projection TV refer to the "Manually Tuning the TV" section of this instruction manual, to tune in the projection TV to the output of your VCR. Also refer to your VCR instruction manual to find out how to find the output channel of your VCR.

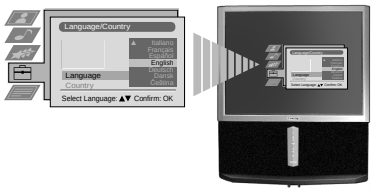
GB

Switching on the Projection TV and Automatically Tuning

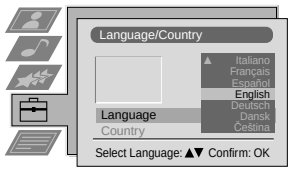
The first time you switch on your TV, a sequence of menu screen appear on the TV enabling you to 1) choose the language of the menu screen, 2) choose the country in which you wish to operate the projection TV, 3) search and stores all available channels (TV Broadcast) and 4) change the order in which the channels (TV Broadcast) appear on the screen.
However, if you need to change the language menu, change the country, change or repeat the tuning (e.g. when you move house) or rearrange again the order of the channels at a later date, you can do that by selecting the appropriate menu in the (Set Up).



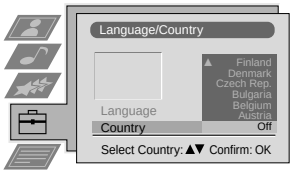
1 Connect the Projection TV plug to the mains socket (220-240V AC, 50 Hz). Press the ⏻ **on** / **off** button on your projection TV set to switch on. The first time you press this button the **Language** / **Country** menu displays automatically on the screen.



2 Push the joystick on the remote control to ▼ or ▲ to select the language, then press **OK** to confirm your selection. From now on all the menus will appear in the selected language.

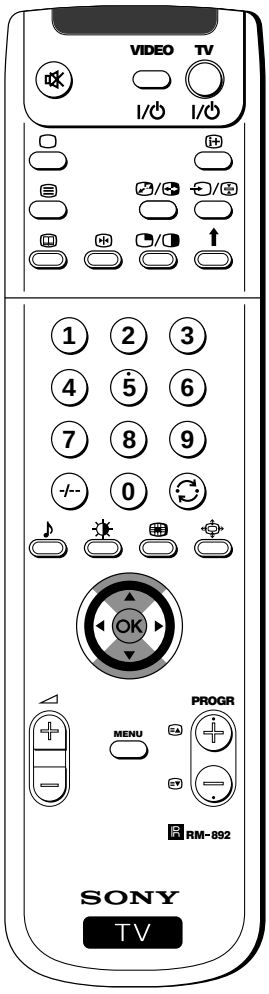


3 Push the joystick to ▼ or ▲ to select the country in which you will operate the projection TV set, then press **OK** to confirm your selection.

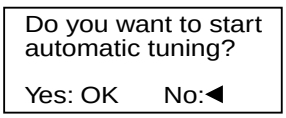


Select "Off" instead of a country if you do not want your channels (TV Broadcasts) stored in a given channel sequence starting from programme position 1.

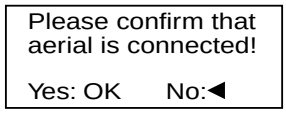
If you are operating the projection TV in the UK, we reccommend you not to select "Off". Otherwise the On Screen clock will not show the correct UK time.



4 The Auto Tuning menu appears on the screen in the selected language, then press the **OK** button on the remote control to select **YES**.

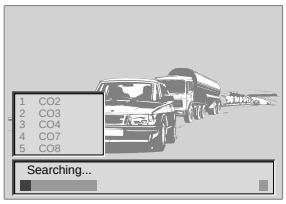


5 A new menu appears automatically on the screen asking you to check that the aerial is connected. Confirm that the aerial is connected and then press the **OK** button to start the automatic tuning.

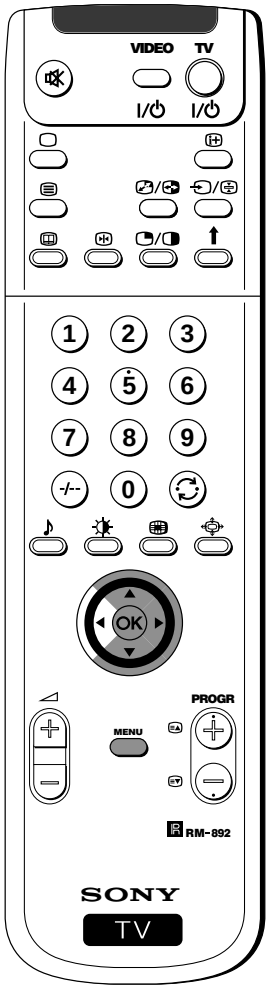


The TV starts to automatically search and store all available channels (TV Broadcast) for you.

This procedure could take some minutes. Please, be patient and do not press any buttons, otherwise the automatic tuning will not be completed.



continued...

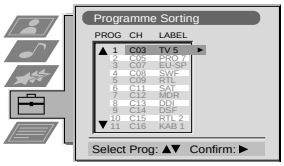


6 After all available channels are captured and stored, the Programme Sorting menu appears automatically on the screen enabling you to change the order in which the channels appear on the screen.

a) If you do not wish to change the channel order, go to step 7.

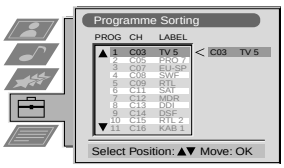
b) If you wish to change the channel order:

1 Push the joystick on the remote control to ▼ or ▲ to select the programme number with the channel (TV Broadcast) you wish to rearrange, then push to ►.



2 Push the joystick to ▼ or ▲ to select the new programme number position for your selected channel (TV Broadcast), then press **OK**.

The selected channel now moves to its new programme position and the other channels move accordingly.



3 Repeat steps b1) and b2) if you wish to change the order of the other channels.

7 Press the **MENU** button to exit and return to the normal TV screen.

Your projection TV is now ready for use.

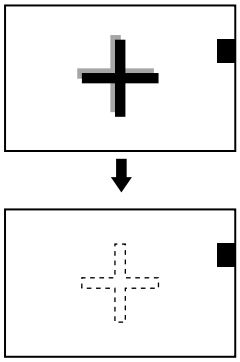
GB

Adjusting Colour Registration (Convergence)

Due to the earth's magnetism, the picture might become undefined and you could see different colours on the outlines of the images. In that case, proceed as follows.



Auto converge the Red, Green, and Blue Lines



1 Press on the mark ⇓, on the front of the projection TV to reveal the front connectors.

2 Press ⊕ button placed on the right side of front connectors.

The Auto Convergence function works for about 10 seconds. When the white cross disappears from the screen, your projection TV is ready for use.

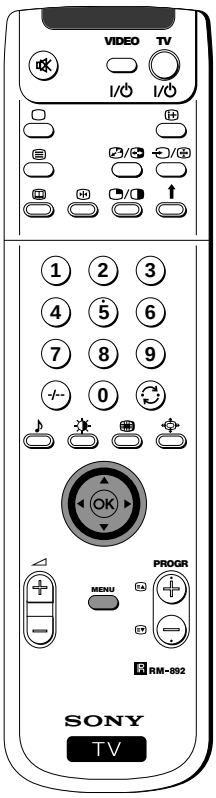
Notes:

The Auto Convergence function does not work when:

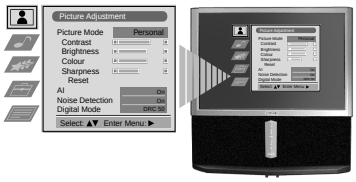
- no signal is input.
- the input signal is weak.
- the screen is exposed to spotlights or direct sunlight.
- you watch the teletext broadcast.
- you watch NexTView.

Introducing the Menu system

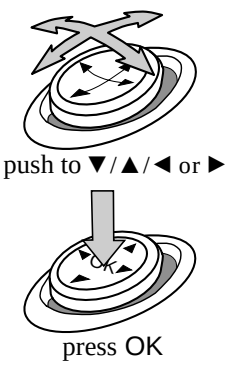
Your projection TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:



1 Press the **MENU** button to switch the first level menu on.

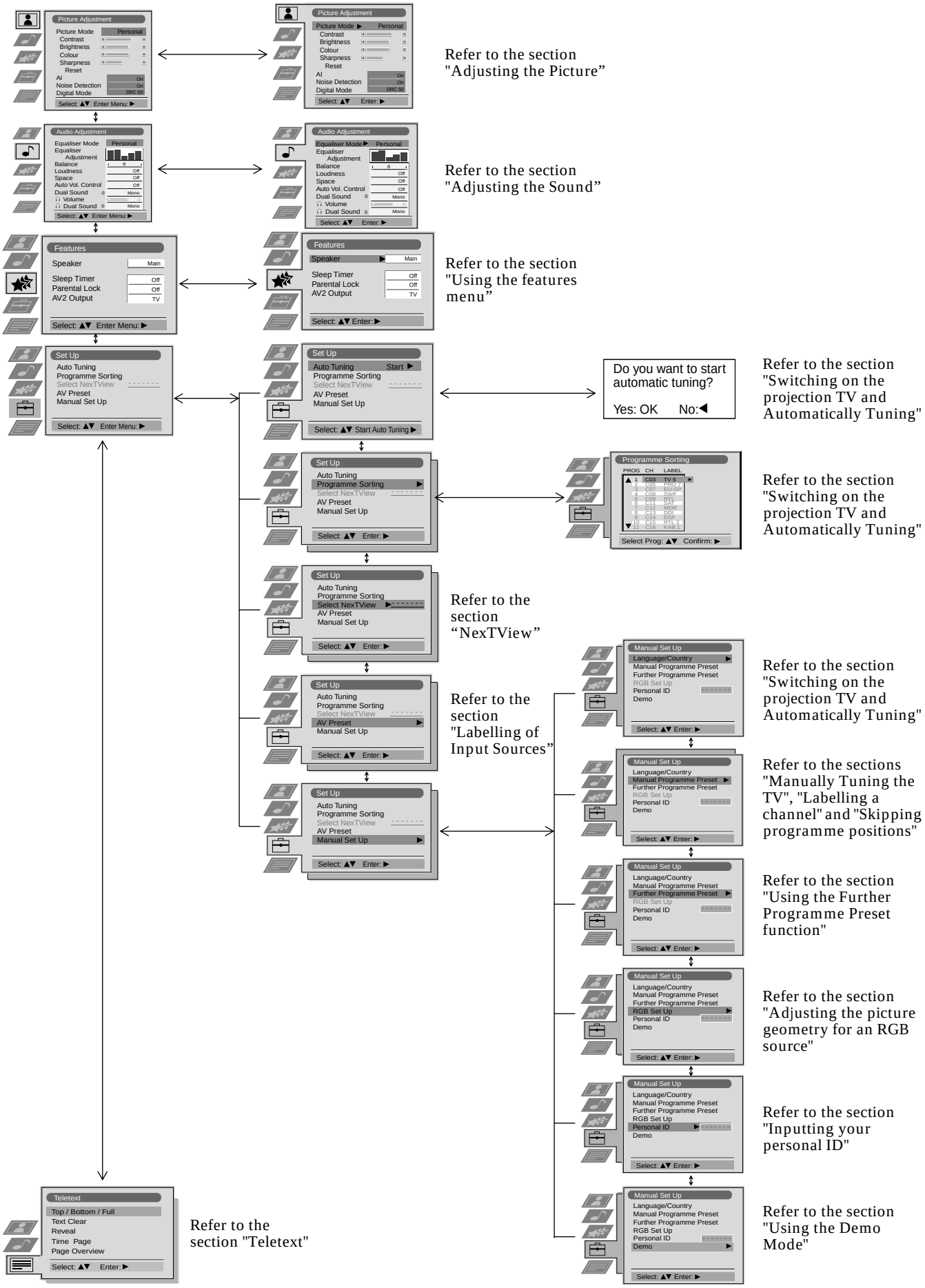


2
- To higlight the desired menu or option, push the joystick to ▲ or ▼.
- To enter to the selected menu or option, push to ►
- To return to the last menu or option, push to ◄.
- To alter settings of your selected option, push to ▼/▲/◄ or ►.
- To confirm and store your selection, press **OK**.



3 Press the **MENU** button to remove the menu from the screen.

On Screen display Menus Guide



Refer to the section "Adjusting the Picture"

Refer to the section "Adjusting the Sound"

Refer to the section "Using the features menu"

Refer to the section "Switching on the projection TV and Automatically Tuning"

Refer to the section "Switching on the projection TV and Automatically Tuning"

Refer to the section "NexTView"

Refer to the section "Labelling of Input Sources"

Refer to the section "Switching on the projection TV and Automatically Tuning"

Refer to the sections "Manually Tuning the TV", "Labelling a channel" and "Skipping programme positions"

Refer to the section "Using the Further Programme Preset function"

Refer to the section "Adjusting the picture geometry for an RGB source"

Refer to the section "Inputting your personal ID"

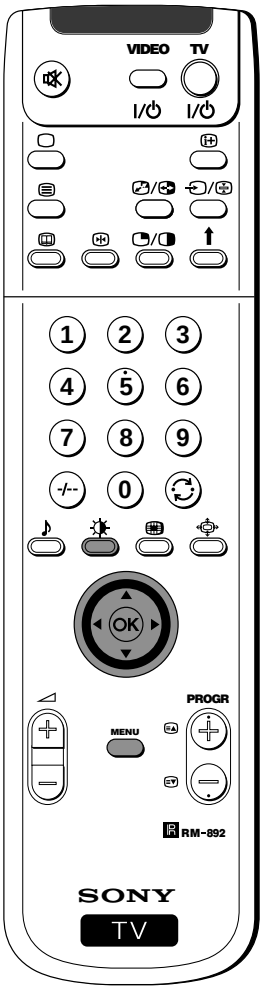
Refer to the section "Using the Demo Mode"

Refer to the section "Teletext"

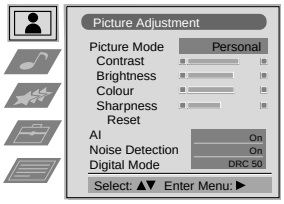
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Adjusting the Picture

Although the picture is adjusted at the factory, you can modify it to suit your own taste.

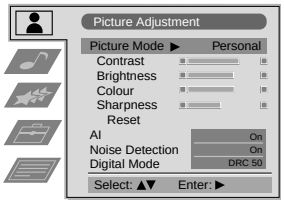


1 Press the **MENU** button on the remote control to display the menu on the screen.



2 Push the joystick to ▶ to enter the **Picture Adjustment** menu.

3 Push the joystick to ▼ or ▲ to select the item you wish to change, then push to ▶.
Refer to the table below to chose the item and for the effect of each control:



Picture Mode	▼ **Live** (for live broadcast programmes) **Personal** (for individual settings) **Movie** (for films) ▲ **Game** (for computer games)
Contrast	◀ Less ▶ More
Brightness*	◀ Darker ▶ Brighter
Colour*	◀ Less ▶ More
Sharpness*	◀ Softer ▶ Sharper
Hue**	◀ Reddish ▶ Greenish
Reset	Resets picture to the factory preset levels.
AI (Artificial Intelligence)	▲ **Off**: Normal ▼ **On:** Automatic optimization of contrast level according to the TV signal
Noise Detection	▲ **Off:** Normal ▼ **On:** Reduces picture noise in the case of a weak/noisy broadcast signal.
Digital Mode	▲ **DRC 50:** improves picture resolution and is optimal for viewing scrolling characters. ▼ **DRC 100:** improves picture resolution creating flicker-free pictures.











* Can only be altered if Personal Picture Mode is selected.
** Only avalaible for NTSC colour signal (e.g: USA video tapes).

4 Push the joystick to ▲, ▼, ◀ or ▶ to alter the selected item, then press the **OK** button to store the new adjustment.

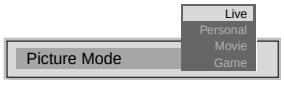
5 Repeat steps 3 and 4 to alter the other items.

6 Press the **MENU** button to exit and return to the normal TV screen.

Changing the Picture Mode Quickly

You can quickly change the Picture Mode without entering the Picture Control menu screen.

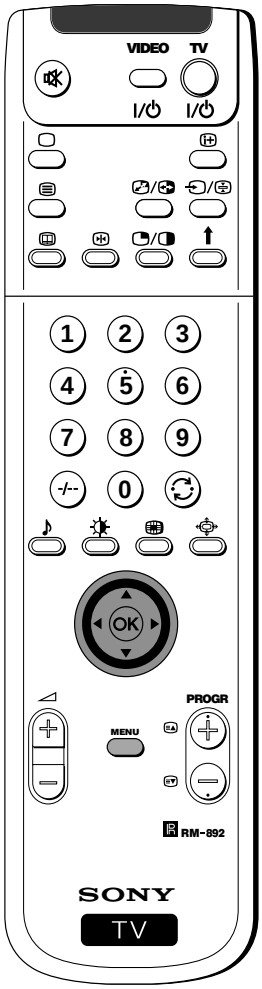
1 Press the ☼ button on the remote control repeatedly to directly access and select your desired picture mode (**Live**, **Personal**, **Movie**, or **Game**).



2 Press the **OK** button to remove the display from the screen.

Adjusting the Sound

Although the sound is adjusted at the factory, you can modify it to suit your own taste.



1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to ▼ to select the ♪ symbol, then push to ► to enter to the **Audio Adjustmen**t menu.

3 Push the joystick to ▼ or ▲ to select the item you wish to change, then push to ►.
Refer to the table below to chose the item and for the effect of each control:

Equaliser Mode
▼ **Personal** (for individual settings)
Vocal
Jazz
Rock
Pop
▲ **Flat** (fixed setting, cannot be adjusted)

***Equaliser Adjustment**
Push to ► or ◄ to select the frequency band you want to alter and push to ▼ or ▲ to adjust. Finally, press the OK button to store the new adjustment.

Balance
◄ Left ► Right

Loudness
▼ **Off:** normal
▲ **On:** for music broadcasts

Space
▼ **Off:** normal
▲ **On:** acoustic sound effect

Auto Vol. Control
▼ **Off:** volume level changes according to the broadcast signal
▲ **On:** volume level of the channels will stay the same independent of the broadcast signal (e.g. in case of advertisement)

Dual Sound
• For a stereo broadcast:
▼ **Mono**
▲ **Stereo**

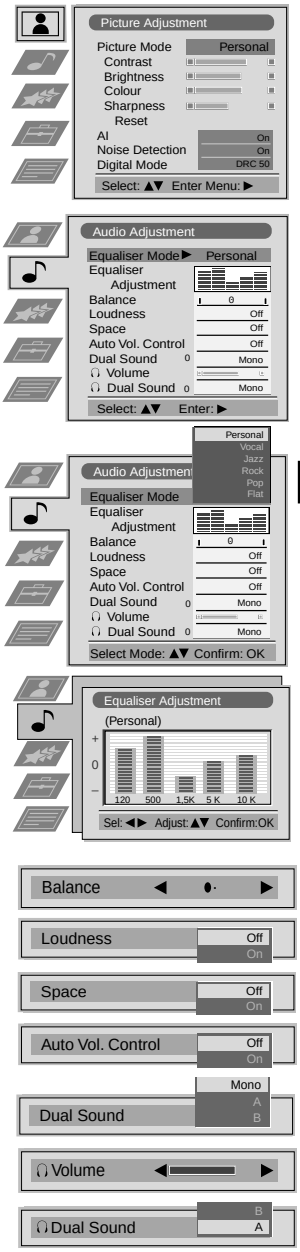
• For a bilingual broadcast:
▼ **Mono** (for mono channel if available)
A (for channel 1)
▲ **B** (for channel 2)

Headphones:
∩ **Volume**
◄ Less ► More

∩ **Dual Sound**
• For a stereo broadcast:
▼ **Mono**
▲ **Stereo**

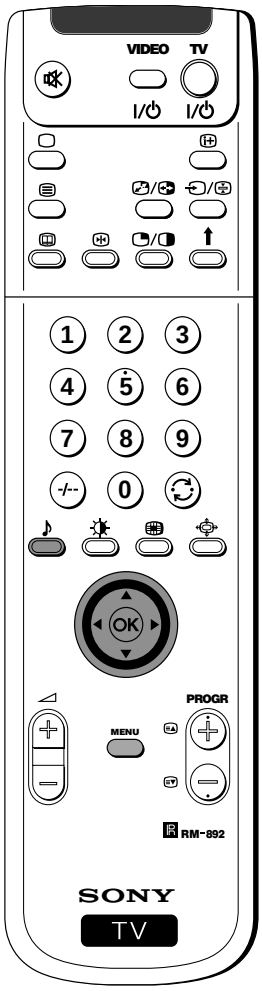
• For a bilingual broadcast:
▼ **Mono** (for mono channel if available)
A (for channel 1)
B (for channel 2)
▲ **PAP** (only when PAP is switched on)

* Can only be permanently stored if Personal Equaliser Mode is selected, the other modes (Vocal, Jazz, Rock or Pop) store until the next mode change.



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continued...



4 Push the joystick to ▼, ▲, ◀ or ▶ to alter the selected item, then press the **OK** button to store the new adjustment.

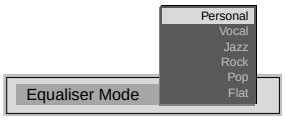
5 Repeat steps 3 and 4 to alter the other items.

6 Press the **MENU** button to exit and return to the normal TV screen.

Changing Sound Mode Quickly

You can quickly change Sound mode without entering the Sound Control menu screen.

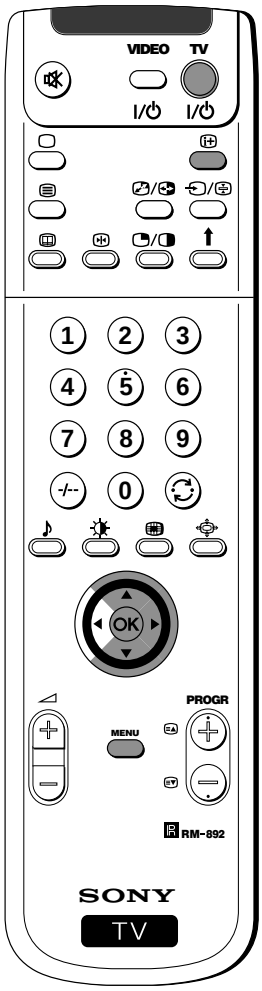
1 Press the ♪ button on the remote control repeatedly to directly access and select your desired sound mode (**Personal**, **Vocal**, **Jazz**, **Rock**, **Pop** or **Flat**).



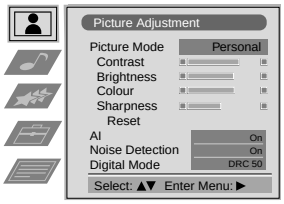
2 Press the **OK** button to remove the display from the screen.

Using the Features Menu

Using the Features menu you can:
a) Select if you want to listen to the sound from the projection TV directly or through an external amplifier.
b) Select a time period after which the projection TV switches itself into standby mode.
c) Lock the buttons on the projection TV set. In this way, the projection TV only works by using the remote control buttons.
d) Select the source to be output from the Scart connector ⇨2/⇨S2 (SMARTLINK). In this way you can record from this scart connector while watching another source. If your VCR supports Smartlink, this procedure is not necessary.

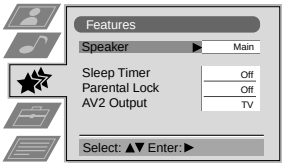


1 Press the **MENU** button on the remote control to display the menu on the screen.



2 Push the joystick to ▼ to select the ✱ symbol, then push to ▶ to enter to the **Features** menu.

3 Push the joystick to ▼ or ▲ to select the desired menu item, then push to ▶ (see the table below for the effect of each menu item).



4 Push to ▼ or ▲ to select the desired setting and press the **OK** button to store.

5 Press the **MENU** button to exit and return to the normal TV screen.

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Features	Effect / Operation
Speaker	▼ **Main** (sound from projection TV set) ▲ **Centre In** (sound from external amplifier)
Sleep Timer	▲ **Off** **10 min.** **20 min.** ... ▼ **90 min.** • One minute before the projection TV switches into standby mode, the time remaining is displayed on the screen automatically. • When watching the TV, press the ⓘ button on the remote control to display the time remaining. • To return to normal operation from standby mode, press the TV I/⏻ button on the remote control.
Parental lock	▼ **Off** (Normal mode) ▲ **On** (The projection TV can only be switched on using the remote control, the buttons on the TV do not work)
AV2 Output	▼ **TV** (audio/video signal from the aerial) **AV1** (audio/video signal from the Scart connector ⇨1/⇢). **AV2** (audio/video signal from the Scart connector ⇨2/⇨S2 (SMARTLINK). **AV3** (audio/video signal from the Scart connector ⇨3/⇨S3). ▲ **AV4** (audio/video signal from the connector ⇨ 4 placed in the front of the Projection TV). ⚠ If you have connected a decoder, please remember to change back the AV2 Output to "TV" for correct unscrambling.







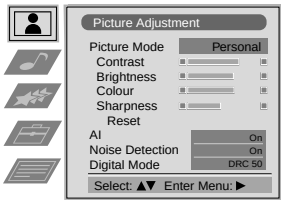


Manually Tuning the TV

Use this function to preset channels (TV Broadcast) or a video input source one by one to the programme order of your choice.

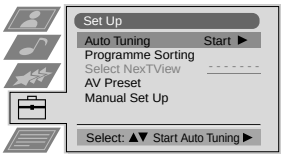


1 Press the **MENU** button on the remote control to display the menu on the screen.



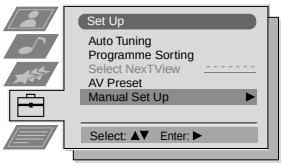
2 Push the joystick to ▼ to select the symbol, then push to ▶ to enter the **Set Up** menu.

3 Push the joystick to ▼ or ▲ to select **Manual Set Up**, then push to ▶.

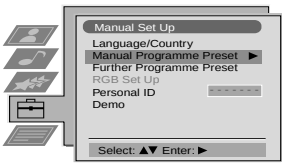


4 Push the joystick to ▼ or ▲ to select **Manual Programme Preset**, then push to ▶.

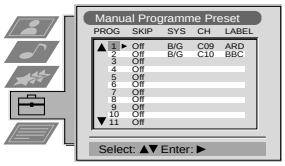
5 Push the joystick to ▼ or ▲ to select on which programme number you want to preset a channel (for VCR select programme number "0"), then push twice to ▶. The column **SYS** is highlighted.



6 Push the joystick to ▼ or ▲ to select the system for TV Broadcast and VCR channel (**B** / **G** for western european countries, **L** for France, **I** for Great Britain or **D** / **K** for eastern european countries) or a external input source (**EXT**), then push to ▶. The column **CH** is highlighted.



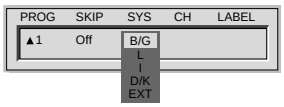
7 Push the joystick to ▼ or ▲ to select the channel tuning, "**C**" for terrestrial channels (for TV Broadcast or VCR channel), "**S**" for cable channels or **F** for, direct frequency input then push to ▶.

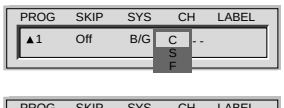


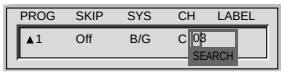
8 a) If you know the channel number of the TV Broadcast, the VCR test signal channel or the frequency, press the number buttons to enter directly the channel number. Then press the **OK** button to store.

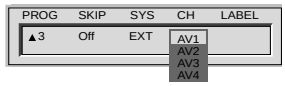
b) If you do not know the channel number, push the joystyck to ▼ to select **SEARCH** and the projection TV starts automatically to search for the next available TV Broadcast channel or the channel of the VCR signal. Then press the **OK** button to store or press ▼ to continue searching the desired channel.

c) For external input sources (EXT), push to ▼ to select the input source where you have connected your equipment (AV1, AV2, AV3 or AV4). Then press the **OK** button to store.









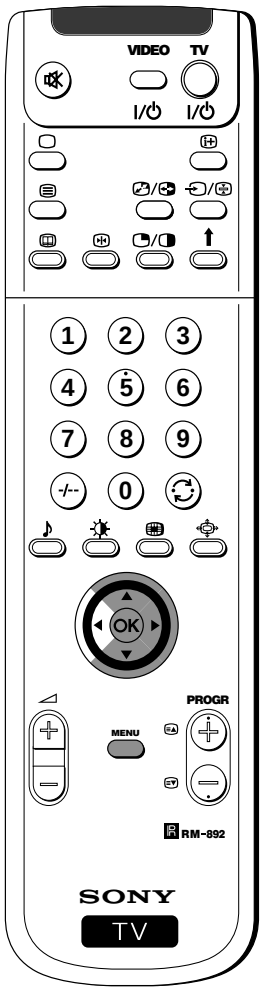
9 Repeat steps 4 to 8 a), b) or c) if you wish to store more channels.

10 Press the **MENU** button to exit and return to the normal TV screen.

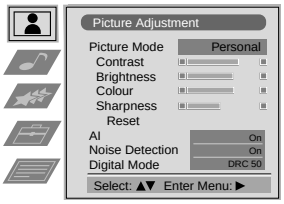
Your projection TV is now ready for use.

Labelling a channel

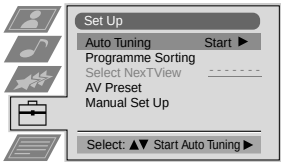
Names for channels (TV Broadcasts) are usually taken automatically from Teletext if available. You can however name a channel or an input video source using up to five characters (letters or numbers). Using this function, you can easily identify which channel (TV Broadcasts) or video source you are watching.



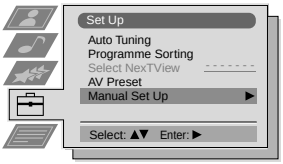
1 Press the **MENU** button on the remote control to display the menu on the screen.



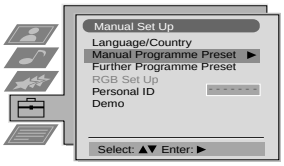
2 Push the joystick to ▼ to select the 🧰 symbol, then push to ▶ to enter the **Set Up** menu.



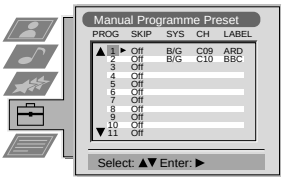
3 Push the joystick to ▼ or ▲ to select **Manual Set Up**, then push to ▶.



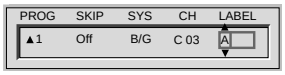
4 Push the joystick to ▼ or ▲ to select **Manual Programme Preset**, then push to ▶.



5 Push the joystick to ▼ or ▲ to select the programme number with the channel you wish to name.



6 Push the joystick to ▶ repeatedly until the first element of the **LABEL** column is highlighted.



7 Push the joystick to ▼ or ▲ to select a letter, number, "+" or a blank, then push to ▶ to confirm this character. Select the other four characters in the same way.

8 After selecting all the characters, press the **OK** button.

9 Repeat steps 5 to 8 if you wish to label other channels.

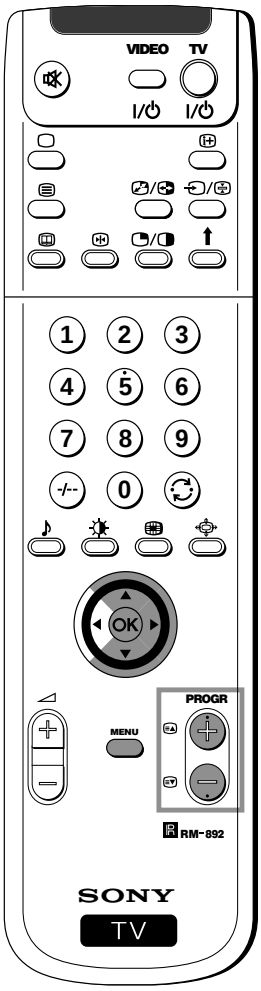
10 Press the **MENU** button to exit and return to the normal TV screen.

When you select a named channel, the name appears for a few seconds on the screen.

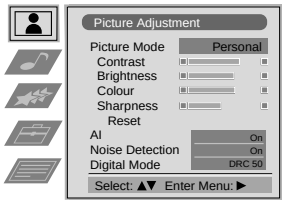
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Skipping Programme positions

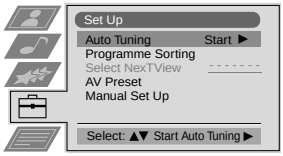
You can programme this projection TV to skip any unwanted programme numbers when they are selected with the PROGR + / - buttons. To cancel this function afterwards, proceed in the same way as described below by selecting Off instead of On in step 6.



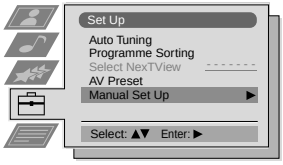
1 Press the **MENU** button on the remote control to display the menu on the screen.



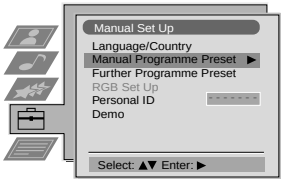
2 Push the joystick to ▼ to select the symbol, then push to ▶ to enter the **Set Up** menu.



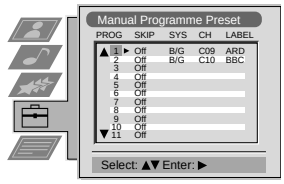
3 Push the joystick to ▼ or ▲ to select **Manual Set Up**, then push to ▶.



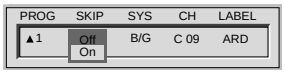
4 Push the joystick to ▼ or ▲ to select **Manual Programme Preset**, then push to ▶.



5 Push the joystick to ▼ or ▲ to select the programme position you want to skip, then push to ▶ to enter the **SKIP** column.



6 Push the joystick to ▼ to select **On**, then press the **OK** button to store.



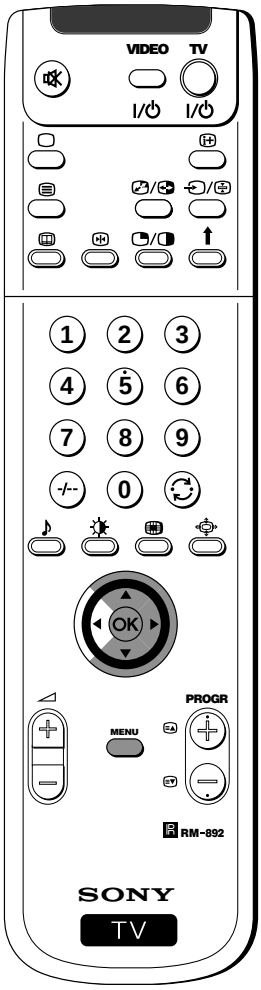
7 Repeat steps 5 and 6 to skip other unused programme positions.

8 Press the **MENU** button to exit and return to the normal TV screen.

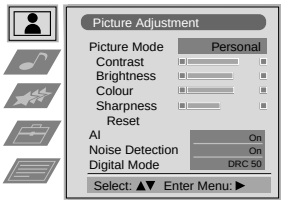
*When changing channels (TV Broadcasts) with the **PROGR +/-** buttons, the skipped programme positions do not appear. You can, however, still select them using the number buttons.*

Using the "Further Programme Preset" function

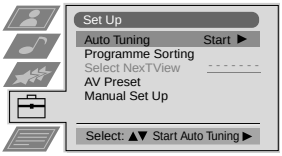
With this feature you can:
a) Individually attenuate the strength of a channel signal in case of a strong local aerial signal (striped picture).
b) Individually adjust the volume level of each channel.
c) Even normally the automatic fine tuning (AFT) is operating, however you can manually fine-tune the TV to obtain a better picture reception if the picture is distorted.
d) Preset the AV output for the programme positions of channels with scrambled signals (eg from a pay TV decoder). In this way a connected VCR records the unscrambled signal.



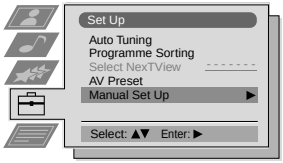
1 Press the **MENU** button on the remote control to display the menu on the screen.



2 Push the joystick to ▼ to select the 🧰 symbol, then push to ▶ to enter the **Set Up** menu.



3 Push the joystick to ▼ or ▲ to select **Manual Set Up** then push to ▶ to enter.



4 Push the joystick to ▼ or ▲ to select **Further Programme Preset**, then push to ▶.

5 Push the joystick to ▼ or ▲ to select the relevant programme number, then push to ▶ repeatedly to select:

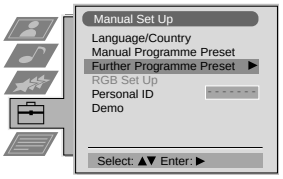
a) **ATT** (RF attenuator)

b) **VOL** (Volume Offset)

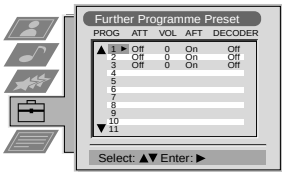
c) **AFT** (Automatic Fine Tuning) or

d) **DECODER**

The selected item changes colour.



6 a) **ATT**
Push the joystick to ▼ to select **On**, then press the **OK** button.
Repeat steps 5 and 6 a) to attenuate other channels.



b) **VOL**
Push the joystick to ▼ or ▲ to adjust the volume level of the channel over a range of -7 to +7, then press the **OK** button. Repeat steps 5 and 6b) to adjust the volume level of the other channels.

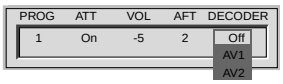


c) **AFT**
Push the joystick to ▼ or ▲ to fine tune the channel frequency over a range of -15 to +15, then press the **OK** button. Repeat steps 5 and 6c) if you wish to fine tune other channels.





d) **DECODER**
Push the joystick to ▼ or ▲ to select **AV1** (for a decoder connected to the Scart ⇨1/⇦) or **AV2** (for a decoder connected to the Scart ⇨2/⇦S 2 (SMARTLINK)), then press the **OK** button.
Repeat steps 5 and 6d) to select the AV1 or AV2 output for other programme positions.



The picture from the decoder connected to the Scart connector ⇨1/⇦ or ⇨2/⇦S 2 (SMARTLINK) on the back of the projection TV will appear on this programme number.

7 Press the **MENU** button to exit and return to the normal TV screen.

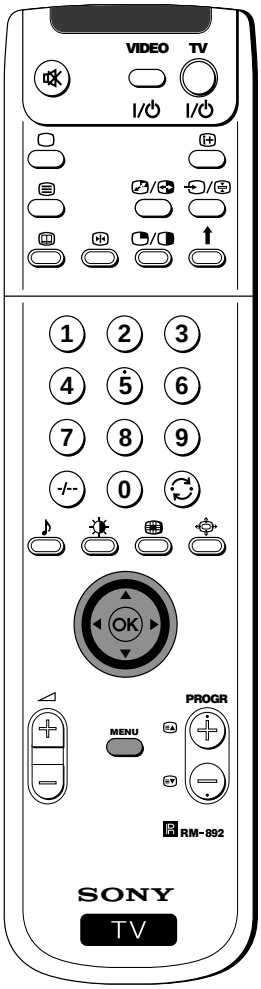
Your projection TV is now ready for use.

GB

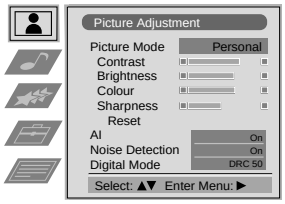
Inputting Your Personal ID

You can programme this projection TV with a personal code, using up to eleven characters (letters and numbers). Then using this fuction it will be possible to identify your projection TV if it was ever stolen.

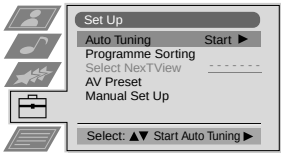
This code can only be input once!
Make sure to write it down in this instruction manual.



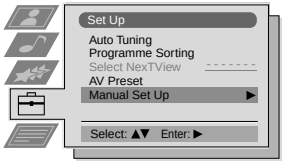
1 Press the **MENU** button on the remote control to display the menu on the screen.



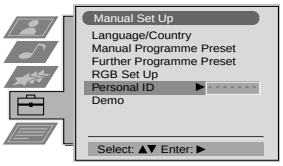
2 Push the joystick to ▼ to select the 🧰 symbol, then push to ▶ to enter the **Set Up** menu.



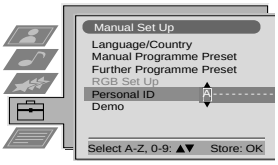
3 Push the joystick to ▼ or ▲ to select **Manual Set Up**, then push to ▶.



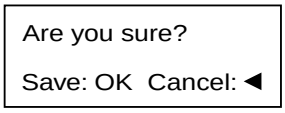
4 Push to ▼ or ▲ to select **Personal ID**, then push to ▶.



5 Push the joystick to ▼ or ▲ to select a letter, number, + or a blank; then push to ▶ to confirm this character. Select the other ten characters in the same way.



6 After selecting all the characters, press the **OK** button. A new menu appears automatically on the screen asking you to be sure that you want to save this ID.



7 a) If you do not wish to store this ID, push the joystick to ◀ and repeat steps 4 to 6 to enter a new ID.

b) If you wish to store this ID, press the **OK** button.

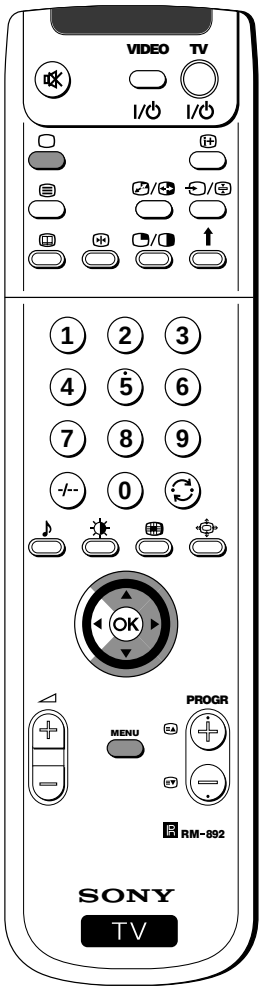
Remember that this code can only be input once.

8 Press the **MENU** button to return to the normal TV screen.

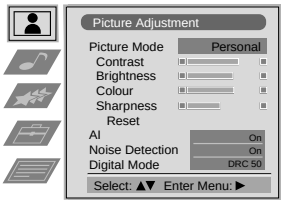
When you enter the Manual Set Up menu, in the "Personal ID" option the code you entered above will be displayed. You will not be able to select and change this option.

Using the Demo Mode

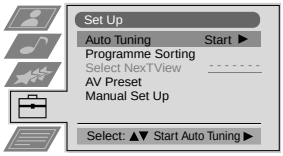
This function provides an overview of some of the features available on your projection TV.



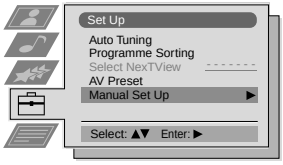
1 Press the **MENU** button on the remote control to display the menu on the screen.



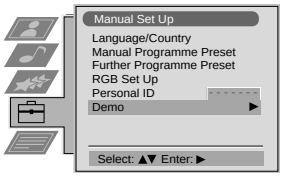
2 Push the joystick to ▼ to select the 🧰 symbol, then push to ▶ to enter the **Set Up** menu.



3 Push the joystick to ▼ or ▲ to select **Manual Set Up**, then push to ▶.



4 Push to ▼ or ▲ to select **Demo**, then push to ▶ to enter and start the demonstration.



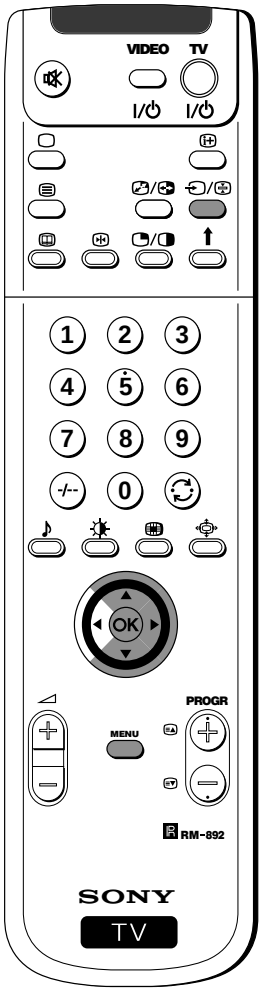
The projection TV starts the demonstration and shows most of the available picture functions.

Note:
Press the 🖵 button on the remote control to stop the Demo mode and return to the normal TV screen.

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Adjusting the picture geometry for an RGB source

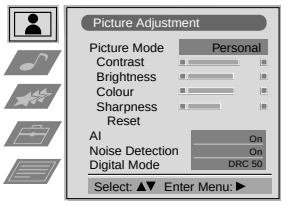
When connecting an RGB source, such as a DVD player, to the Scart connector ⇨1/⇦ you may need to readjust the geometry of the picture.



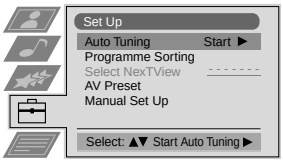
1 Press the ⇨ button repeatedly on the remote control until the symbol ⇨1 appears on the screen.



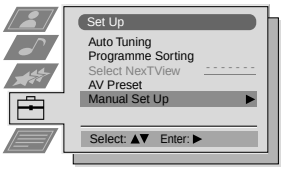
2 Push the **MENU** button to display the menu on the screen.



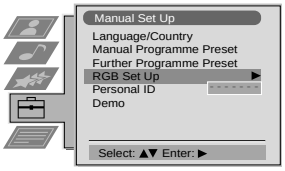
3 Push the joystick to ▼ to select the 🧰 symbol, then push to ▶ to enter the **Set Up** menu.



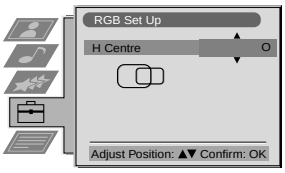
4 Push to ▼ or ▲ to select **Manual Set Up** then push to ▶ to enter.



5 Push the joystick to ▼ or ▲ to select **RGB Set Up** then push to ▶.



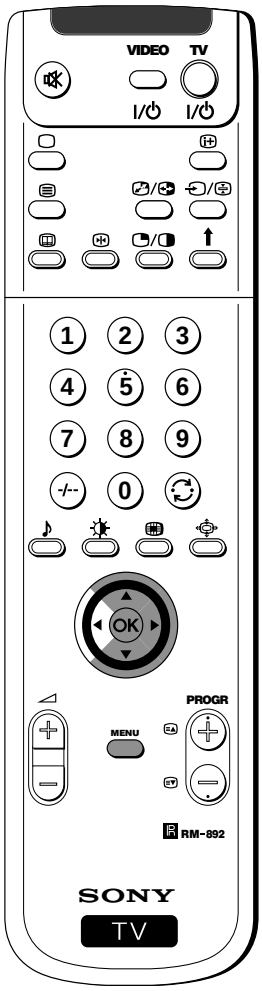
6 Push the joystick to ▶ to enter **H Centre**, then push to ▼ or ▲ to adjust the centre of the picture over a range of -10 to +10. Press the **OK** button to store.



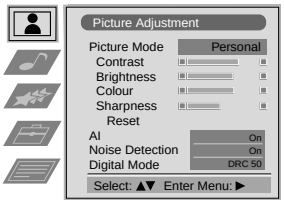
7 Press the **MENU** button to exit and return to the normal TV screen.

Labelling of Input Sources

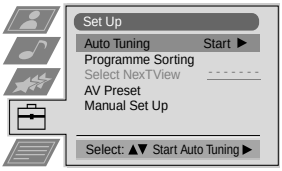
This function enables you to designate a name to the optional equipment you have connected to the sockets of this projection TV. This name can contain up to 5 characters (letters or numbers).



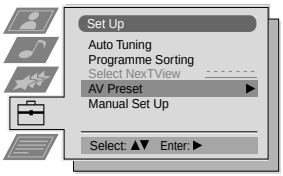
1 Press the **MENU** button on the remote control to display the menu on the screen.



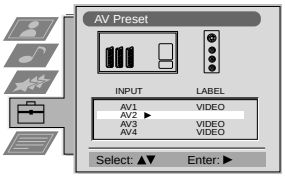
2 Push the joystick to ▼ to select the 🧰 symbol, then push to ▶ to enter the **Set Up** menu.



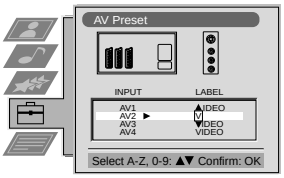
3 Push the joystick to ▼ or ▲ to select **AV Preset**, then push to ▶.



4 Push the joystick to ▼ or ▲ to select the input source you wish to name (eg AV2), then push to ▶ to highlight the first element of the **Label** column.



5 Push the joystick to ▼ or ▲ to select a letter, number, "+" or blank; then push to ▶ to confirm this character. Select the other four characters in the same way.



6 After selecting all the characters, press the **OK** button.

7 Repeat steps 4 to 6 if you wish to label other input sources.

8 Press the **MENU** button to exit and return to the normal TV screen.

Whenever the equipment with the labeled input is selected for use, the name appears for a few seconds on the screen.

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Using Multi PIP (Picture In Picture)

Multi PIP (Picture in Picture) mode displays a succession of 12 still pictures and a 13th that is live. You can manually select which channel you wish to watch, either full-screen or in the PIP.

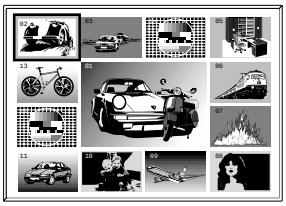


1 Press the ⊞ button on the remote control to select the PIP mode. Now 13 programme positions appear on the screen, with the current channel in the centre.

2 Push the joystick to ▼, ▲, ◀ or ▶ to move within the 13 displayed channels.

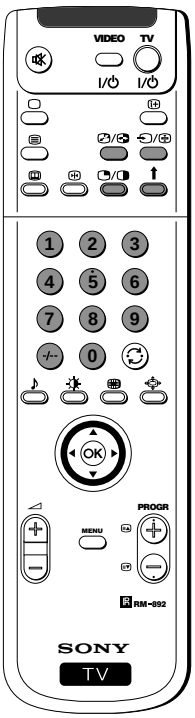
3 Press the **OK** button to select the framed channel. The selected channel moves to the centre.

4 Press ⊞ to return to the normal TV mode.



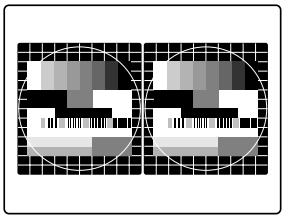
Using PAP (Picture And Picture)

PAP divides the screen into two for watching two channels simultaneously. One of the pictures can be selected to come from a video source.
The sound of the left screen comes through projection TV loudspeakers, the sound of the right screen is selectable via headphones.



Switching PAP on and off

Press the button ◔/◑ on the remote control to display the two screens in format 4:3. Press ◔/◑ again to switch PAP off.



Selecting PAP source

1 To change the source of the left screen:
With PAP switched on, press the number buttons (to select a TV channel) or press ⊡ (to select a video source).

2 To change the source of the right screen:
With PAP switched on, press the button ⬆ on the remote control. When the symbol ⬆ appears at the bottom of the right screen, press the number buttons (to select a TV channel) or press ⊡ (to select a video source).

Swapping screens

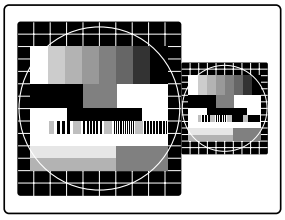
With PAP switched on, press the ⇄ button on the remote control to swap the two screens.

Zooming the screens

With PAP switched on, push the joystick repeatedly to ◀ or ▶ to change the size of the two screens.

Selecting the sound of the right screen

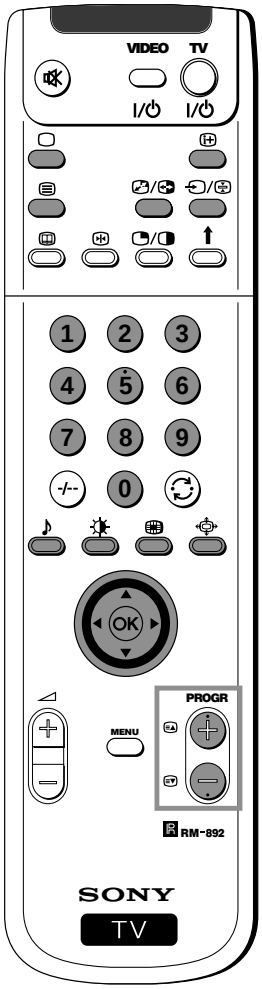
You can select the sound of the right screen via headphones. With PAP switched on, refer to the "Adjusting the Sound" section of this instruction manual and set the option "∩ Dual Sound" to "PAP".



Teletext

Most TV channels broadcast information via Teletext. The index page of the teletext service (usually page 100) gives you information on how to use the service.

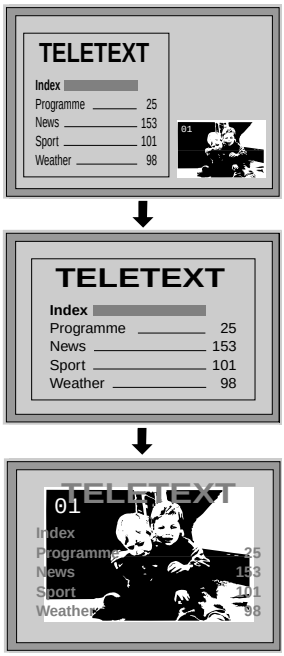
Please use a TV channel with a strong signal, otherwise there may be Teletext errors.



Switching Teletext on and off

1. Select the TV channel which carries the teletext service you want to view.
2. Press the button once for Picture and Teletext (P&T). The screen is divided in two, with the TV channel in the right corner and the Teletext display on the left.

   P&T mode: Press / then press PROGR +/- to change the channel of the TV screen. Push the joystick to ◄ or ► to change the size of the TV screen then press / again to resume normal teletext reception.
3. Press twice to get Teletext only.
4. Press three times for Mix mode.
5. Press a fourth time or press to switch off Teletext.



Selecting a Teletext page

Input three digits for the page number using the numbered buttons on the control. If you make a mistake, type in any three digits then re-enter the correct page number.

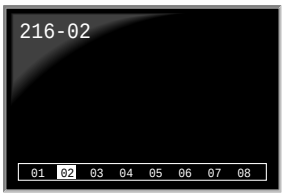
Using Other Teletext Functions

Selecting the next or preceding page

Press the (PROG+) or (PROGR-) buttons on the remote control to select the previous or next page.

Selecting a sub page

A teletext page may consist of several sub pages. In this case, after a few seconds, an information line is displayed showing the number of subpages.
Select the sub page by pressing ▲ or ▼.



To freeze a Teletext page

Press the button to freeze the page. Press again to cancel the freeze.

Revealing the index page

Press the button to reveal the index page (normally page 100).

Fastext

(only available if the TV station broadcasts Fastext signals)

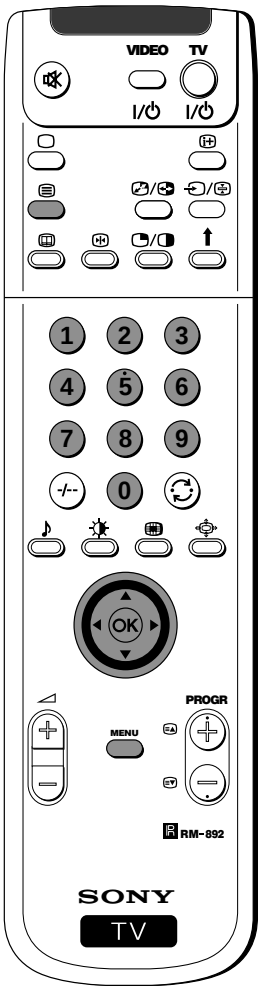
When the colour coded menu appears at the bottom of a teletext page, press a coloured button on the remote control (red, green, yellow or blue) to access the corresponding page.

Using the feature "Page Catching"

1. Press the numbered buttons on the remote control to select a teletext page which has several page numbers on it (eg the index page).
2. Press the **OK** button.
3. Push the joystick to ▲ or ▼ to select the desired page number then press the **OK** buttons. The requested page is displayed after some seconds.

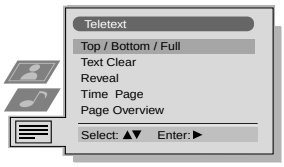
continued...

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Using the Teletext menu

1 With Teletext switched on, press the **MENU** button on the remote control to display the teletext menu on the TV screen.
2 Push the joystick to ▲ or ▼ to select your chosen item, then push to ▶ to display the relevant sub menu.
3 To remove the teletext menu from the screen, press the **MENU** button.



Top / Bottom / Full

The Top / Bottom / Full sub menu allows you to enlarge different sections of the Teletext page. Push the joystick ▲ to enlarge the upper half of the screen, push to ▼ to enlarge the lower half. Press the **OK** button to restore the page to normal size.



Text Clear

After having selected this function, you can watch a TV channel while waiting for a requested Teletext page. As soon as the page is available, the symbol ☰ changes colour. To view the page, press ☰.

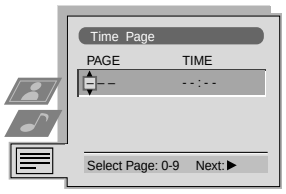
Reveal

Some teletext pages contain hidden information (eg for a quiz), which you can reveal. The hidden information appears on screen.

Time Page

(depending on availability of teletext service)

You can call up a time-coded page such as an alarm page at a time specified by you. After you have displayed the Time Page sub menu:



1 Press the numbered buttons on the remote control to enter the three digits of the desired page.
2 Press the numbered buttons again to enter the four digits of the desired time.
3 Press the **OK** button to store the desired time. The time is displayed in the top left corner of the screen. At the requested time the page is displayed.

Page Overview

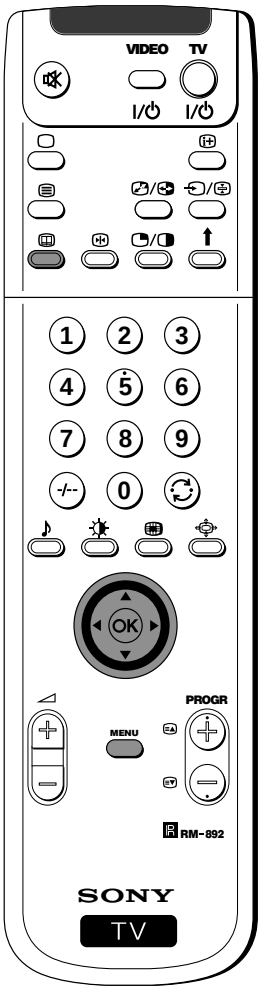
(depending on availability of teletext service)

In the Page Overview menu the block and group pages of TOP- Text are sorted into two columns, so that the customer can easily select this page. For each block page in the first column, the corresponding group pages are shown in the second column. Push the joystick ▲ or ▼ to select the desired block page, then push to ▶ to enter to the group pages column. Push to ▲ or ▼ to select the desired group page . Finally, press the **OK** button to display the page.

NexTView *

* (depending on availability of service)

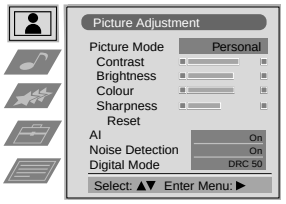
NexTView is an on-screen electronic programme guide (EPG), providing you with programme information for different broadcasters.

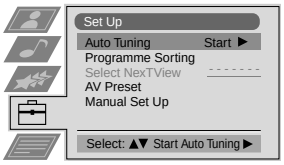


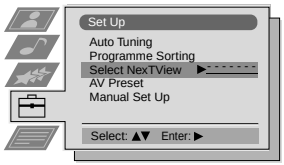
Selecting your NexTView provider

Your projection TV automatically selects the best NexTView provider for you. This provider is available about 30 minutes after the channel tuning. You can however change this selection of provider if you wish.

1. Press the **MENU** button on the remote control to display the menu on the screen.
2. Push the joystick to ▲ or ▼ to select the symbol, then push to ► to enter the **Set Up** menu.
3. Push to ▲ or ▼ to highlight **Select NexTView** then push to ►. A list is displayed containing all available NexTView providers.
4. Push to ▲ or ▼ to select the desired provider then press the **OK** button to store.
5. Press the **MENU** button to remove the menu from the screen.



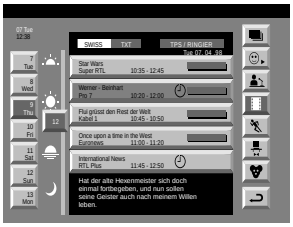




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Displaying NexTView

1. Press the button repeatedly on the remote control to switch NexTView on and off.
   * In some cases, you may also need to push the joystick to ◄ to display the Sony electronic programme guide.
2. Push the joystick to ▲, ▼, ◄ or ► buttons to move the cursor around the screen.
3. Press the **OK** button to confirm a selection.
   a) If you press the **OK** button in the date, time or icon (themes) columns, you change the programme list according to the selection.
   b) If you press the **OK** button in the programme list, you directly display the channel if the broadcast is currently running, or, you display the "Long Info" menu if the broadcast is running at some future time.



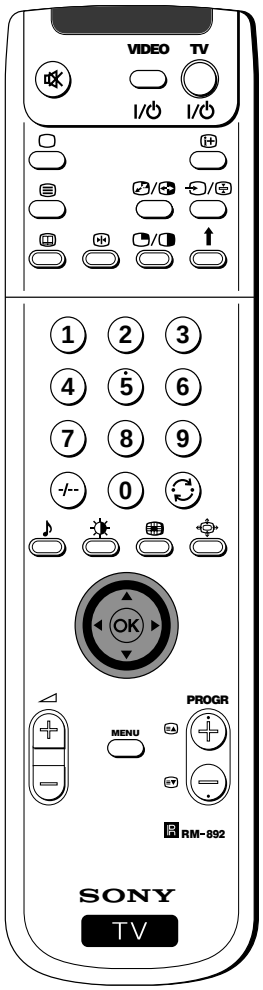
Index
- full selection list
- personal selection
- news broadcasts
- movies
- sports
- entertainment
- children
- return to last menu

Using the "Individual Setting" menu

You can make a personal list of the types of programmes you wish to view on the programme guide.

1. Push the joystick ▲ or ▼ to select the icon then push to ► to display the "Individual Setting" menu.
2. Push the joystick ▲ or ▼ to select your chosen item on the screen then press the **OK** button to confirm your choice.
3. Repeat step 2 for all the items you wish to have in your list.
4. When you have finished the list, push to ► to select the icon.
5. Press the **OK** button to return to the previous menu.
6. Push the joystick ▲ or ▼ to select the icon then press the **OK** button again to activate your "Individual Setting" filter.

continued...



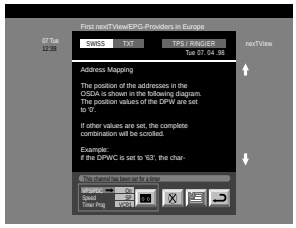
Using the Long Info menu

With this menu screen, you can set timers or record selected programmes.

1 Push ▲ or ▼ to select a future programme in the programme list column.
2 Press the **OK** button to display the **Long Info** menu on the TV screen.

To set the timer

Push the joystick ▲ or ▼ to highlight the ⏲ icon then press the **OK** button repeatedly to "set the timer" or "cancel the timer". If you choose to set the timer, the programme is marked with a clock symbol and a message appears on the screen shortly before the programme is due to start asking whether you wish to still view this programme.



To view the timer table

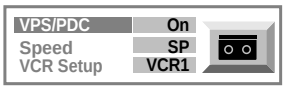
Push the joystick ◀ or ▶ to highlight the icon then press the **OK** button repeatedly to switch on / off the timer table. This table shows the programmes on which you have already set a timer. (You can set a timer on up to 5 programmes).

To record programmes

(only with Smartlink VCRs)

1 Connect your Smartlink VCR.
2 Push the joystick to ◀ or ▶ to select then press the **OK** button to download the information to your VCR.
3 To set up the VCR:

VPS/PDC
Push the joystick ◀ or ▶ to select **VPS** / **PDC** then press the **OK** button repeatedly to select **On** or **Off**. With this setting on you have the guaranteed recording of the whole broadcast should there be a change in the TV programme. This only works if the selected channel broadcasts a VPS / PDC signal.



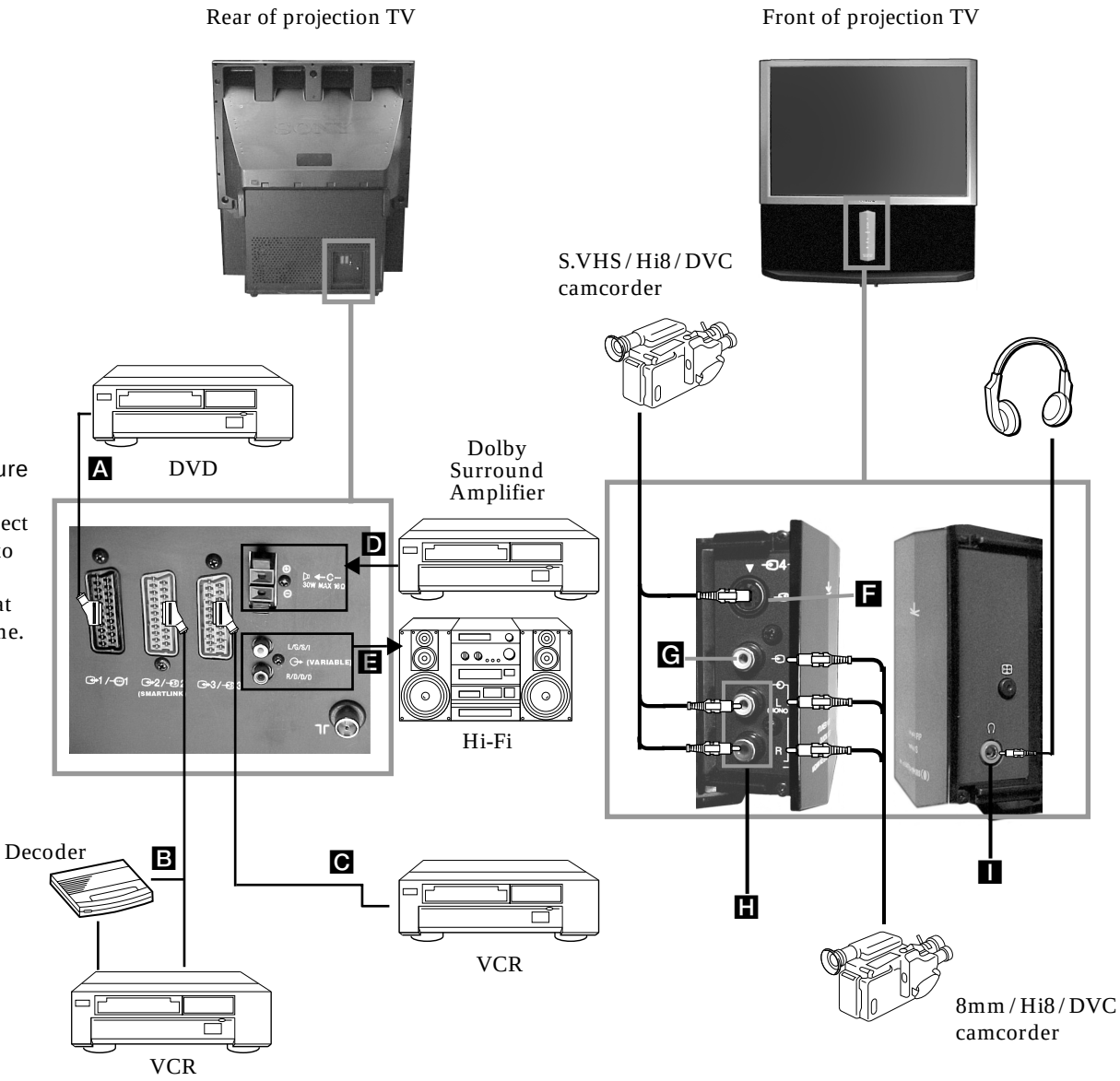
Speed
Push the joystick to ▼ to select **Speed** then press the **OK** button repeatedly to select between **SP** for standardplay or **LP** for longplay. With longplay you can record twice as much on a videotape. The picture quality however may suffer.

VCR Setup
Push the joystick to ▼ to select **VCR Setup** then press the **OK** button repeatedly to select which **VCR** you wish to programme, namely **VCR1** or **VCR2**.

4 Finally, push the joystick to ▶ to select the ⮌ icon then press the **OK** button to remove the menu from the TV screen.

Connecting Optional Equipment

Using the following instructions, you can connect a wide range of optional equipment to your projection TV.



To avoid picture distortion:

- Do not connect equipment to **F** and **G** connectors at the same time.

Acceptable input signal	Available output signal
A Audio / video and RGB signal	Video / audio from TV tuner.
B Audio / video and S video signal	Video / audio from selected source.
C Audio / video and S video signal	Video / audio displayed on TV screen (monitor out).
D Centre speaker input Set “Speaker” on the Features menu to “Centre in”.	No outputs.
E No inputs	Audio signal.
F S Video signal	No output.
G Video signal	No output.
H Audio signal	No output.
I No input	Audio signal to headphones.

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Using Optional Equipment

Additional Information when connecting equipment

Connecting a VCR

We recommend you connect your VCR to the **B** or **C** socket using a scart lead. If you do not have a scart lead, use the “Manually Tuning the TV” section of this instruction manual to tune in the channel of the VCR test signal to TV programme number “0”. Also refer to your VCR instruction manual to get the VCR test signal.
If your video supports Smartlink please refer to the "Smartlink" section of this instruction manual.

Connecting to External Audio Equipment

1 To listen to the audio of your projection TV on the Hi-Fi equipment:

Plug in your Hi-Fi equipment to the **E** sockets on the rear of the projection TV if you wish to amplify the audio output from the TV.
The output level from **E** sockets can be varied by adjusting the volume of the headphones. Refer to the “Adjusting the sound” section of this instruction manual to adjust the volume of the headphones.

2 To listen to the Dolby Prologic system sound on the projection TV speakers:

Plug in your Dolby Prologic system decoder amplifier to the **D** socket on the rear of the projection TV if you wish to listen to the audio output from your equipment on the projection TV speaker. If you have a Dolby amplifier, connect the centre output from your amplifier to the **D** socket to use the projection TV as a centre speaker. Refer to the “Using the Features menu” section of this instruction manual and set the option “Speaker” to “Centre in”.

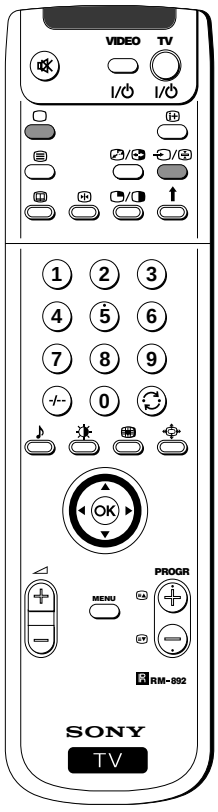
⚠ Remember that the maximum input level of this input is 30 W. Be careful never to over this limit.

For mono equipment

Connect the phono plug to the L / G / S / I socket on the front of the TV and select the 4 input signal using the instructions on this page below.

Select and View the Input Signal

ⓘ In order to get the input signal of a connected equipment onto the TV screen, you need to select the symbol of the connector to which you have connected the device.
e. g. : Your VCR is connected to the connector with the symbol 1 / 1. Press the button on the remote control repeatedly until you see the symbol 1 on the screen.



1 Connect your equipment to the designated projection TV socket, as it is indicated on the previous page.

2 Switch on the connected equipment.

3 Press the button repeatedly on your remote control until the correct input symbol appears on the screen.

Symbol	Input signals
1	• Audio / video input signal through the Scart connector **A** or * RGB through Scart connector **A**.
2	• Audio / Video input signal through the Scart connector **B** or * S Video through Scart connector **B**.
3	• Audio / Video input signal through the Scart connector **C** or * S Video through Scart connector **C**.
4	• S Video input signal through the 4-pin DIN connector **F** or * video input signal through phono jack **G** and audio input signal through phono jacks **H**.

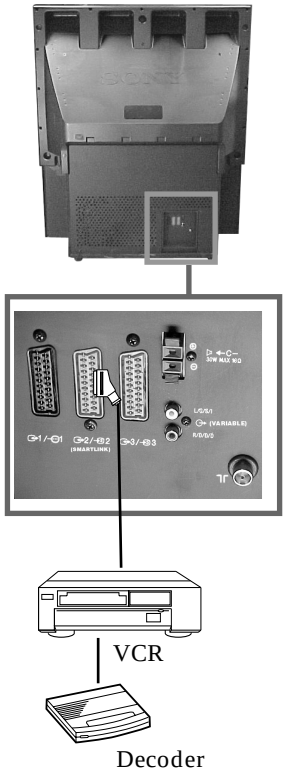
* (automatic detection of the signal according to the connected equipment)

4 To return to the normal TV picture, press the button on the remote control.

Smartlink

Smartlink is a direct link between your projection TV set and a VCR.

Rear of projection TV



For Smartlink you need:

- A VCR which supports Smartlink, NextView Link, Easy Link or Megalogic.

  Megalogic is a trademark of Grundig Corporation.
  EasyLink is a trademark of Philips Corporation.

- A fully-wired 21 pin SCART cable to connect your VCR to the Scart connector ⇨2 / ⇦2 (SMARTLINK) on the rear of the Projection TV.

The features of Smartlink are:

- Tuning information such as the channel overview are downloaded from the projection TV set to the VCR.
- Direct projection TV recording: While watching TV you need to press just one button on the VCR to record this programme.
- Automatically switching on: With the projection TV in standby mode, pressing the "Play ▶" button on your VCR automatically switches the TV on.

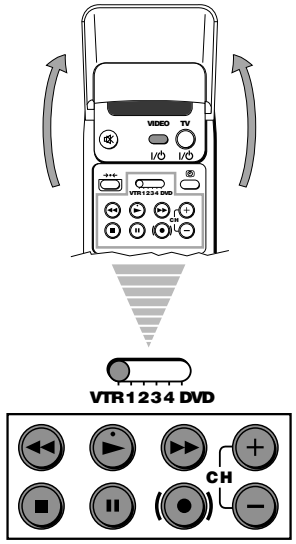
If you have connected a decoder to a VCR which supports Smartlink feature, select the menu Further Programme Preset in the (Manual Set Up) menu and select **DECODER AV2** to each coded channel. For more details, please refer to the section "Using the Further Programme Preset function" of this instruction manual.

For more information on Smartlink, please refer to the Instruction Manual of your VCR.

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Remote Control of other Sony Equipment

Using the buttons underneath the cover of the remote control you can control other Sony equipment.



1 Open the cover of the Remote Control.

2 Set the selector VTR 1234 DVD according to the equipment you want to control:

VTR 1	Beta VCR
VTR 2	8 mm VCR
VTR 3	VHS VCR
VTR 4	Digital Video (DCR-VX 1000 / 9000 E, VHR-1000)
DVD	Digital Video Disk

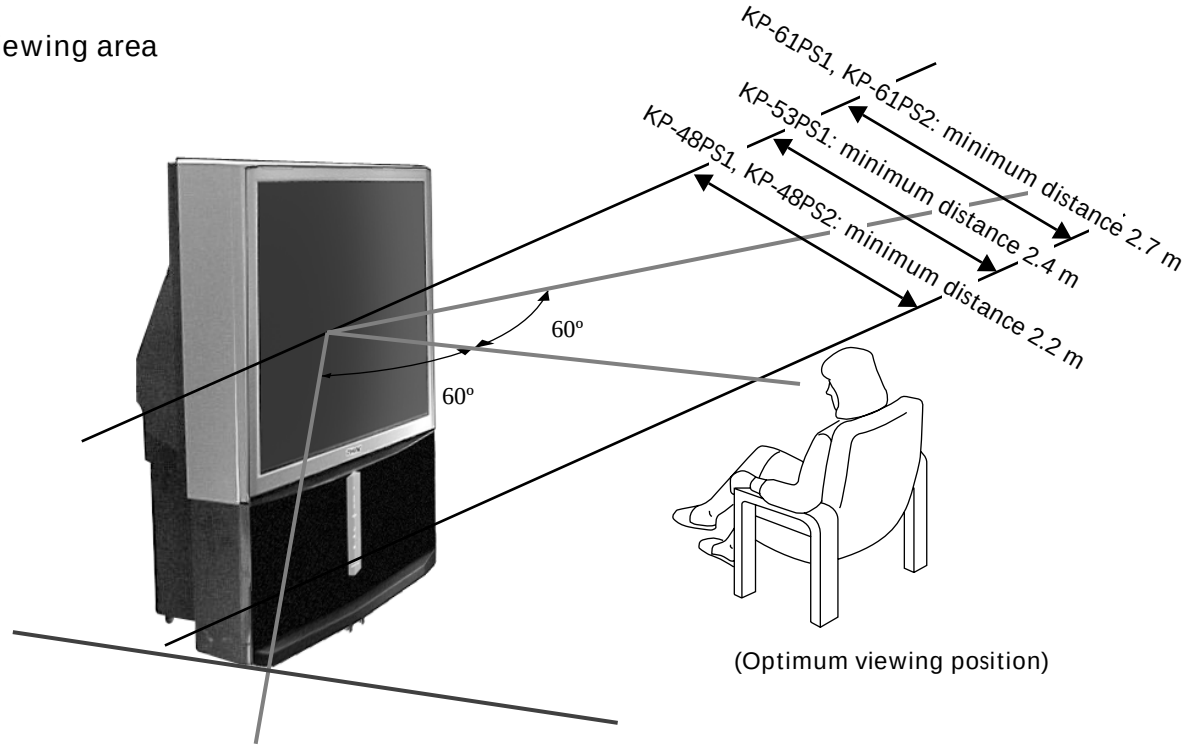
3 Use the buttons underneath the cover on the remote control to operate the equipment.

- If your equipment has a COMMAND MODE selector, set this selector to the same position as the VTR 1234 DVD selector on the projection TV Remote Control.
- If the equipment does not have a certain function, the corresponding button on the remote control will not work.

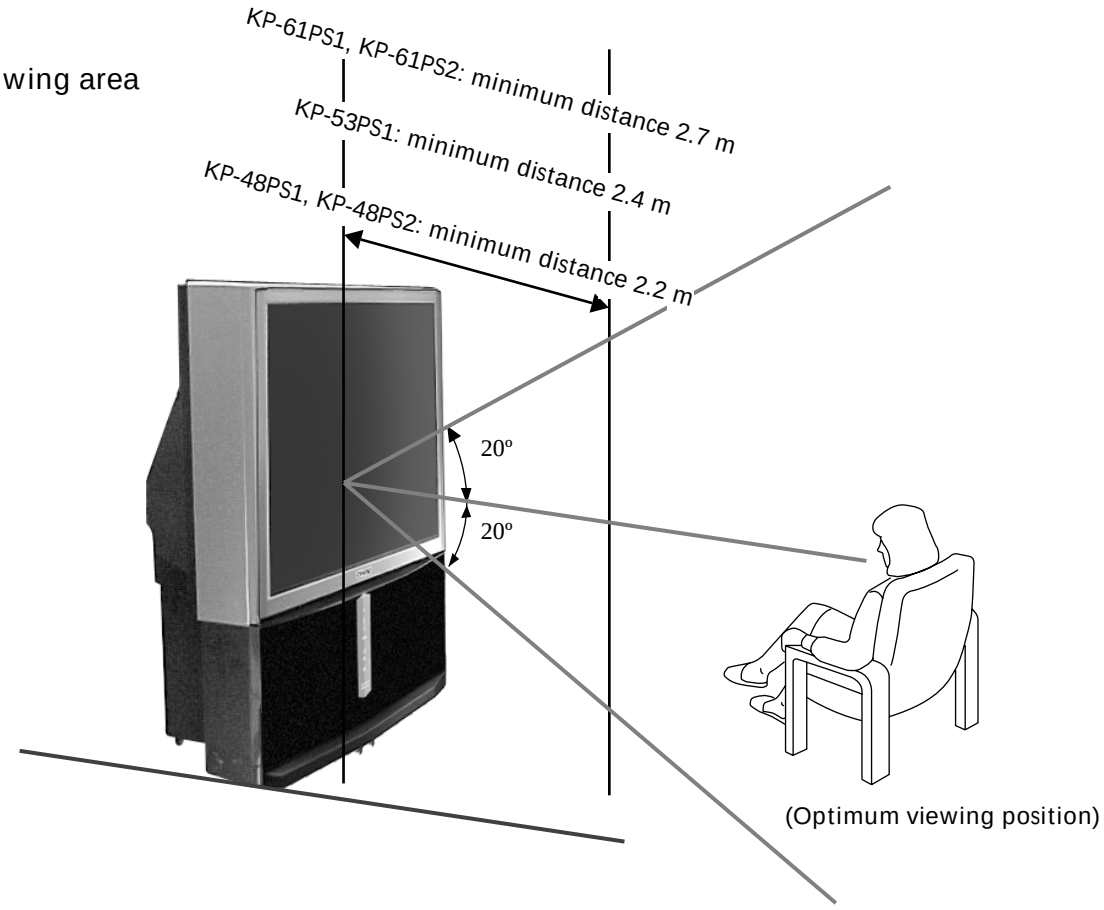
Optimum Viewing Area

For the best picture quality, try to position the projection TV so that you can view the screen from within the areas shown below.

Horizontal viewing area



Vertical viewing area



Specifications

TV system
B / G / H, D / K, I, L

Colour system
PAL, SECAM
NTSC 3.58, 4.43 (only Video In)

Channel coverage
VHF: E2-E12
UHF: E21-E69
CATV: S1-S20
HYPER: S21-S41
D / K: R1-R12, R21-R69
I: UHF B21-B69
L: F2-F10, B-Q, F21-F69

Projected picture size
KP-61PS1, KP-61PS2:
61 inches (approx. 154 cm measured diagonally)
KP-53PS1:
53 inches (approx. 134 cm measured diagonally)
KP-48PS1, KP-48PS2:
48 inches (approx. 121 cm measured diagonally)

Rear Terminals
- ◀C– Centre speaker input terminals (2 terminals)
- (L, R) audio outputs (phono jacks)
- 1 / 21-pin Euro connector (CENELEC standard) including audio / video input, RGB input, TV audio / video output.
- 2 / S 2 (SMARTLINK) 21-pin Euro connector (CENELEC standard) including audio / video input, S video input, selectable audio / video output.
- 3 / S 3 21-pin Euro connector (CENELEC standard) including audio / video input, S video input, audio / video output (monitor out).

Front Terminals
AV4 inputs:
S video input - 4 pin DIN
video input - phono jack
audio inputs - phono jacks
Headphones jack - minijack stereo

Sound output
2 x 30 W (music power)
2 x 15 W (RMS)

Centre SP input
30 W (RMS) (using as the centre speaker)

Power consumption
225 W

Standby Power consumption
< 0.7 W

Dimensions (w x h x d)
KP-61PS1, KP-61PS2: Approx. 1372 x 1528 x 658 mm
KP-53PS1: Approx. 1218 x 1419 x 606 mm
KP-48PS1: Approx. 1106 x 1336 x 562 mm
KP-48PS2: Approx. 1091 x 1335 x 580 mm

Weight
KP-61PS1, KP-61PS2: Approx. 92 kg
KP-53PS1: Approx. 76 kg
KP-48PS1, KP-48PS2: Approx. 68 kg

Accessories supplied
1 Remote Control (RM-892 or RM-903)
2 Batteries (IEC designated)

Other features
100 Hz picture
Digital Comb filter (High resolution)
TELETEXT, Fastext, TOPtext
NexTView
NICAM
Sleep Timer
Smartlink
Digital Noise detection
Graphic Equaliser
Personal ID

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Design and specifications are subject to change without notice.

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Troubleshooting

Here are some simple solutions to the problems which may affect the picture and sound.

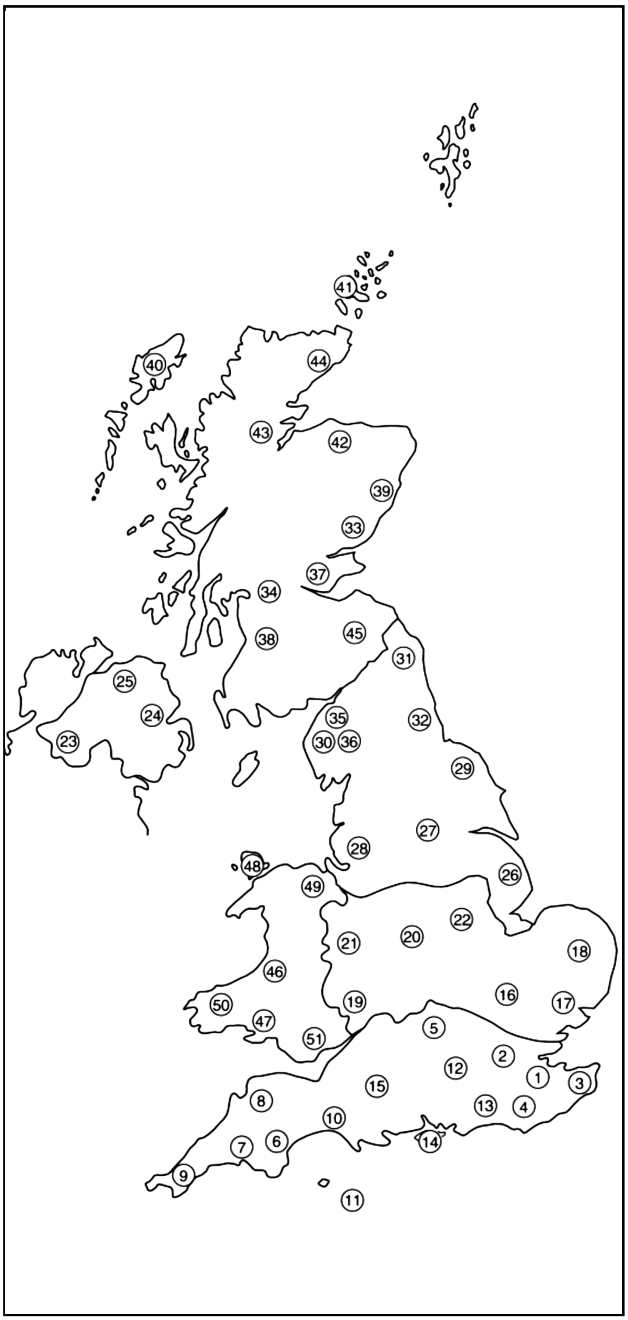
Problem	Solution
No picture (screen is dark), no sound.	• Plug the projection TV in. • Press the ⏻ button on the front of the projection TV. • If the ⏻ indicator is on, press **TV I/⏻** button on the remote control. • Check the aerial connection. • Check that the selected video source is on. • Turn the projection TV off for 3 or 4 seconds and then turn it on again using the ⏻ button on the front of the projection TV.
Poor or no picture (screen is dark), but good sound.	• Using the MENU system, select the Picture Adjustment menu. Adjust the brightness, contrast and colour balance levels.
Poor picture quality when watching a RGB video source.	• Press the ⏎ button repeatedly on the remote control until the RGB symbol ⏎ 1 is displayed on the screen.
Good picture, no sound	• Press the ◿ +/- button on the remote control. • Check that "Main" speaker is selected in the "Features" menu.
No colour on colour programmes	• Using the MENU system, select the Picture Adjustment menu. Adjust the colour balance.
Distorted picture when changing programmes or selecting teletext	• Turn off any equipment connected to the Scart connectors on the rear of the projection TV.
Wrong characters appear when viewing teletext	• Using the menu system, enter to the “Language/Country” menu and select the country in which you operate the TV set.
Striped picture	• Adjust the RF Atenuator (ATT). For details, please refer to the section "Using the Further Programme Preset function".
Noisy picture when viewing TV channel	• Adjust Fine Tuning (AFT) to obtain better picture reception. For details, please refer to the section "Using the Further Programme Preset function"
Remote control does not function	• Replace the batteries.
The standby indicator ⏻ on the TV flashes.	• Contact your nearest Sony service centre.

⚠ • If you continue to have these problems, have your TV serviced by qualified personnel.
• NEVER open the casing yourself.

Television Channel Number Guide for United Kingdom

Only the main transmitters are listed. Information regarding the regional sub-relay channel numbers can be obtain by connecting The BBC Engineering Information Dept. (0181) 752 5040.

MAIN TRANSMITTERS	BBC1	BBC2	ITV	CH4	CH5
London & South East					
(1) Bluebell Hill	40	46	43	65	-
(2) Crystal Palace	26	33	23	30	-
(3) Dover	50	56	66	53	-
(4) Heathfield	49	52	64	67	-
(5) Oxford	57	63	60	53	49
South-West					
(6) Beacon Hill	57	63	60	53	-
(7) Caradon Hill	22	28	25	32	-
(8) Huntshaw Cross	55	62	59	65	67
(9) Redruth	51	44	41	47	37
(10) Stockland Hill	33	26	23	29	-
Channel Islands					
(11) Fremont Point	51	44	41	47	-
South					
(12) Hannington	39	45	42	66	-
(13) Midhurst	61	55	58	68	-
(14) Rowridge	31	24	27	21	-
West					
(15) Mendip	58	64	61	54	37
East					
(16) Sandy Heath	31	27	24	21	39
(17) Sudbury	51	44	41	47	-
(18) Tacolneston	62	55	59	65	52
Midlands (West)					
(19) Ridge Hill	22	28	25	32	-
(20) Sutton Coldfield	46	40	43	50	-
(21) The Wrekin	26	33	23	29	-
Midlands (East)					
(22) Waltham	58	64	61	54	-
Northern Ireland					
(23) Brougher Mountain	22	28	25	32	-
(24) Divis	31	27	24	21	-
(25) Limavady	55	62	59	65	-
North					
(26) Belmont	22	28	25	32	56
(27) Emley Moor	44	51	47	41	37
North-West					
(28) Winter Hill	55	62	59	65	48
North-East					
(29) Bilsdale West Moor	33	26	29	23	-
(30) Caldbeck	30	34	28	32	56
(31) Chatton	39	45	49	42	-
(32) Pontop Pike	58	64	61	54	-
Scotland					
(33) Angus	57	63	60	53	-
(34) Black Hill	40	46	43	50	37
(35) Sandale	22	67	-	-	-
(36) Caldbeck	-	-	28	32	56
(37) Craigkelly	31	27	24	21	48
(38) Darvel	33	26	23	29	-
(39) Durris	22	28	25	32	67
(40) Eitshal (Lewis)	33	26	23	29	-
(41) Keelylang Hill	40	46	43	50	-
(42) Knock More	33	26	23	29	-
(43) Rosemarkie	39	45	49	42	-
(44) Rumster Forest	31	27	24	21	-
(45) Selkirk	55	62	59	65	52
Wales					
(46) Blaenplwyf	31	27	24	21	56
(47) Carmel	57	63	60	53	-
(48) Llanddona	57	63	60	53	-
(49) Moel-y-Parc	52	45	49	42	-
(50) Presely	46	40	43	50	37
(51) Wenvoe	44	51	41	47	-



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