

AVD-S10

SERVICE MANUAL

Ver 1.0 2002.05



AEP Model
UK Model
E Model



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Model Name Using Similar Mechanism	HCD-S500
Mechanism Type	CDM55D-DVBU8
Base Unit Name	DVBU8
Optical Pick-up Name	KHM-240AAA

SPECIFICATIONS

Amplifier section

Stereo mode	50 W + 50 W (6 ohms at 1 kHz, THD 10 %)
Surround mode	Front: 50 W + 50 W Center*: 50 W Rear*: 50 W + 50 W (6 ohms at 1 kHz, THD 10 %)

* Depending on the sound field settings and the source, there may be no sound output.

Inputs (Analog)	ANALOG IN: Sensitivity: 150 mV Impedance: 50 kilohms
Inputs (Digital)	DIGITAL IN 1, 2 OPTICAL: Sensitivity: –
Outputs (Analog)	ANALOG OUT: Voltage: 2 V Impedance: 1 kilohms SUBWOOFER AUDIO OUT: Voltage: 3 V Impedance: 47 kilohms PHONES: Accepts low- and high-impedance headphones
Outputs (Digital)	DIGITAL OUT OPTICAL (CD) Sensitivity: –

Super Audio CD/DVD system

Laser	Semiconductor laser (Super Audio CD/DVD: $\lambda = 650$ nm) (CD: $\lambda = 780$ nm) Emission duration: continuous
Signal format system	NTSC/PAL
Frequency response (at 2 CH STEREO mode)	DVD (PCM): 2 Hz to 22 kHz (± 1.0 dB) CD: 2 Hz to 20 kHz (± 1.0 dB)
Signal-to-noise ratio	More than 80 dB (VIDEO 1 (AUDIO) connectors only)
Harmonic distortion	Less than 0.03 %

FM tuner section

System	PLL quartz-locked digital synthesizer system 87.5 – 108.0 MHz (50 kHz step)
Antenna	FM wire antenna
Antenna terminals	75 ohms, unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

System	Tuner section: PLL quartz-locked digital synthesizer system
Tuning range	531 – 1,602 kHz (with the interval set at 9 kHz)
Antenna	Loop antenna
Intermediate frequency	450 kHz

Video section (EURO AV) (AEP, UK model)

Inputs	Video: 1 V _{p-p} 75 ohms
Outputs	Video: 1 V _{p-p} 75 ohms

General

Power requirements	230 V AC, 50/60 Hz
Power consumption	105 W 1.5 W (in the standby mode)
Dimensions (approx.)	430 × 82.5 × 376 mm (17 × 3 (17 × 3 1/4 × 14 7/8 inches) (w/h/d) incl. projecting parts
Mass (approx.)	4.3 kg (9 lb 8 oz)
Operating temperature	5°C to 35°C (41°F to 95°F)
Operating humidity	5 % to 90 %
Supplied accessories	• AM loop antenna (1) • FM wire antenna (1) • SCART (EURO AV) cord (1) (AEP, UK model) • Remote Commander (remote) RM-SP10 (1) • R6 (size AA) batteries (2)

Design and specifications are subject to change without notice.

SUPER AUDIO CD/DVD RECEIVER

9-874-016-01
2002E1600-1
© 2002.05

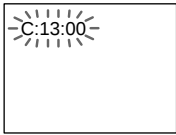
Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

SONY®

Self-diagnosis Function

(When letters/numbers appear on the front panel display)

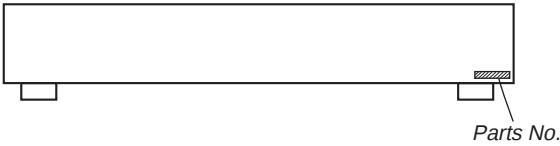
The self-diagnosis function is activated to prevent the receiver from malfunctioning. In this case a five-character service number (e.g., C 13 00) with a combination of a letter and digits appears on the screen and the front panel display. Refer to the following table.



First three characters of the service number	Cause and/or Corrective Action
C 13	The disc is dirty. ➡ Clean the disc with a soft cloth (page 8).
C 31	The disc is not inserted correctly. ➡ Re-insert the disc correctly.
E XX (xx is a number)	To prevent a malfunction, the receiver has performed the self-diagnosis function. ➡ Contact your nearest Sony dealer or local authorized Sony service facility and give the 5-character service number. Example: E 61 10

MODEL IDENTIFICATION

— BACK PANEL —

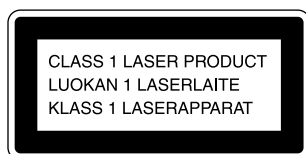


MODEL	PARTS No.
AEP, UK model	4-236-876-1□
Malaysia, Singapore model	4-236-876-2□

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Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the “S curve check” in “CD section adjustment” and check that the S curve waveform is output several times.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS 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.

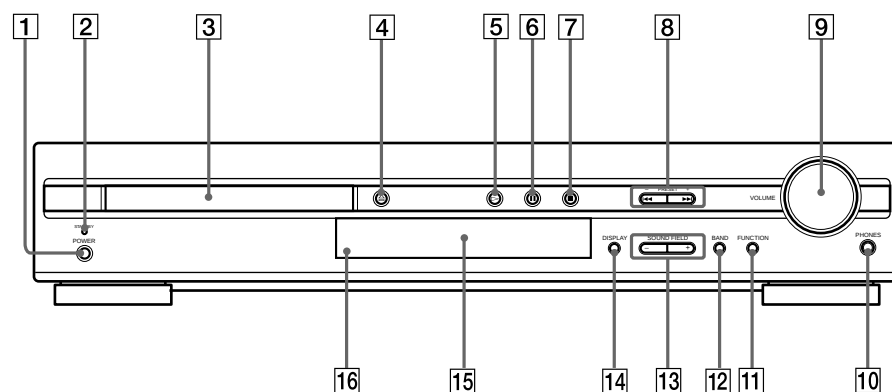
SECTION 1 GENERAL

This section is extracted
from instruction manual.

Index to Parts and Controls

For more information, refer to the pages indicated in parentheses.

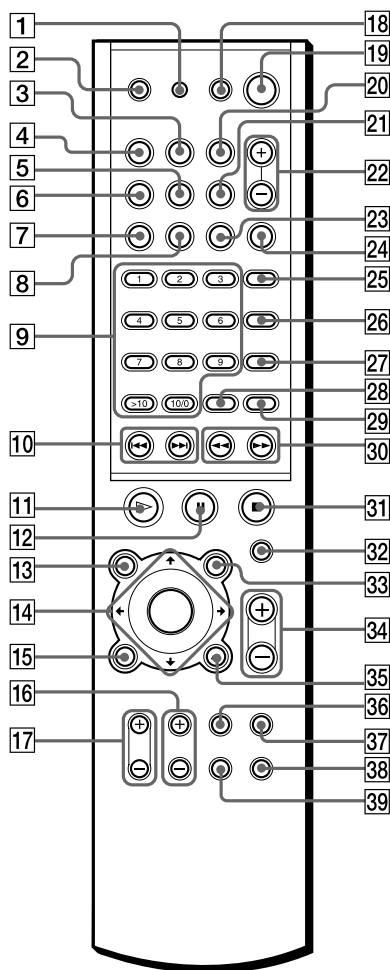
Front Panel



- 1** POWER switch (30)
- 2** STANDBY indicator (30)
- 3** Disc tray (30)
- 4** (open/close) (30)
- 5** (play) (30)
- 6** (pause) (31)
- 7** (stop) (30)
- 8** , PRESET +/- (28, 31)

- 9** VOLUME control (30)
- 10** PHONES jack (30)
- 11** FUNCTION (60)
- 12** BAND (28)
- 13** SOUND FIELD +/- (46)
- 14** DISPLAY (61)
- 15** Front panel display (10)
- 16** (remote sensor) (16)

Remote



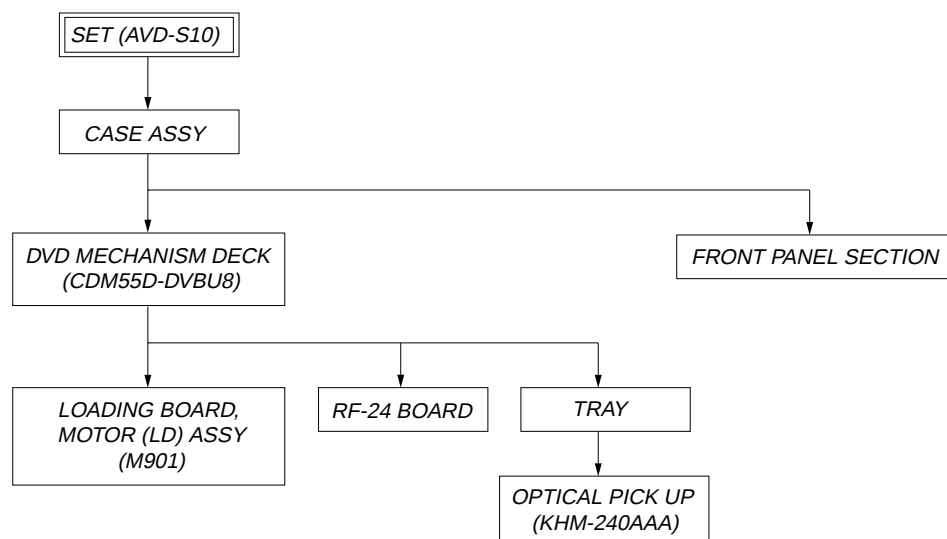
Note

This remote control glows in the dark. However, before glowing, the remote must be exposed to light for awhile.

- 1 RM SET UP (59)
- 2 OPEN/CLOSE (30)
- 3 BAND (28)
- 4 FUNCTION (60)
- 5 MEMORY (28)
- 6 NAME (63)
- 7 PLAY MODE (34)
- 8 REPEAT (37)
- 9 Number buttons (32)
- 10 ◀◀/▶▶, PRESET +/- (28, 31)
- 11 ▷ (play) (30)
- 12 || (pause) (31)
- 13 DVD TOP MENU (32)
- 14 ◀/▶/◂/▸/ENTER (24)
- 15 DVD DISPLAY (13, 36)
- 16 TV CH +/- (60)
- 17 TV VOL +/- (60)
- 18 TV I/⏻ (on/standby) (60)
- 19 I/⏻ (on/standby) (30)
- 20 STEREO/MONO (61)
- 21 DISPLAY (61)
- 22 SOUND FIELD +/- (46)
- 23 TIME (41)
- 24 DIMMER (27)
- 25 AUDIO (44)
- 26 ANGLE (51)
- 27 SUBTITLE (52)
- 28 ENTER
- 29 CLEAR (35)
- 30 ◀◀/▶▶ (28, 38)
- 31 ■ (stop) (30)
- 32 MUTING (31)
- 33 DVD MENU (32)
- 34 VOLUME +/- (30)
- 35 ↶ RETURN (33)
- 36 TV/VIDEO (60)
- 37 AMP MENU (24)
- 38 DVD SETUP (64)
- 39 WIDE (60)

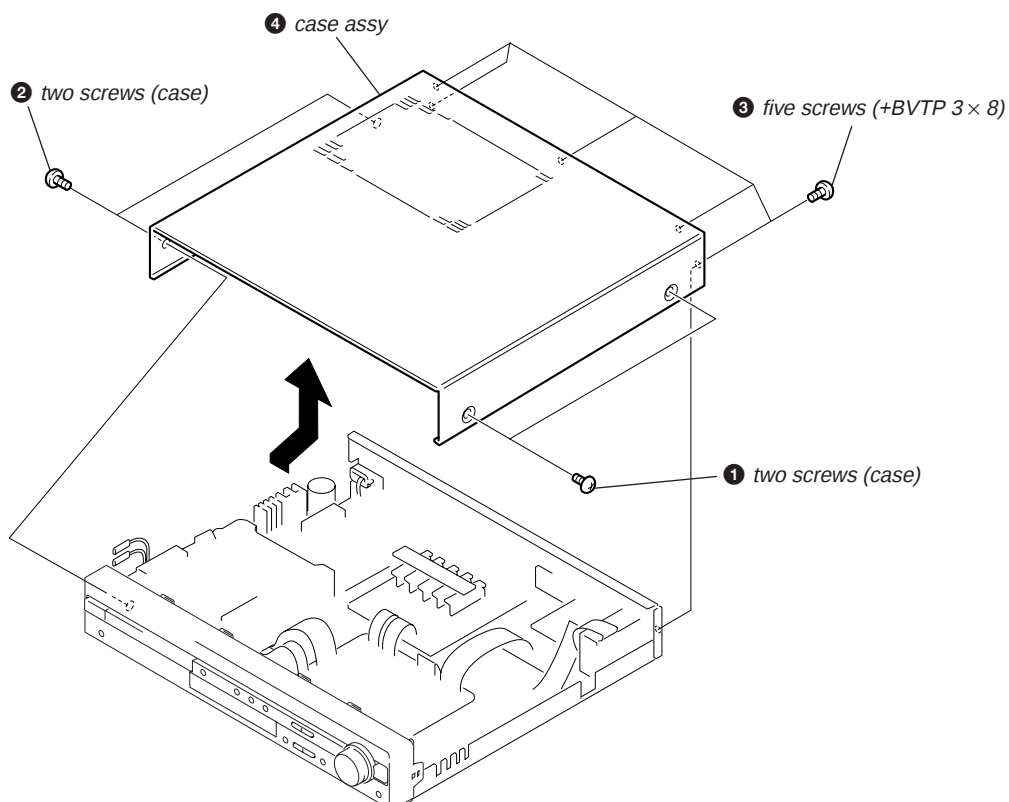
SECTION 2 DISASSEMBLY

- The equipment can be removed using the following procedure.

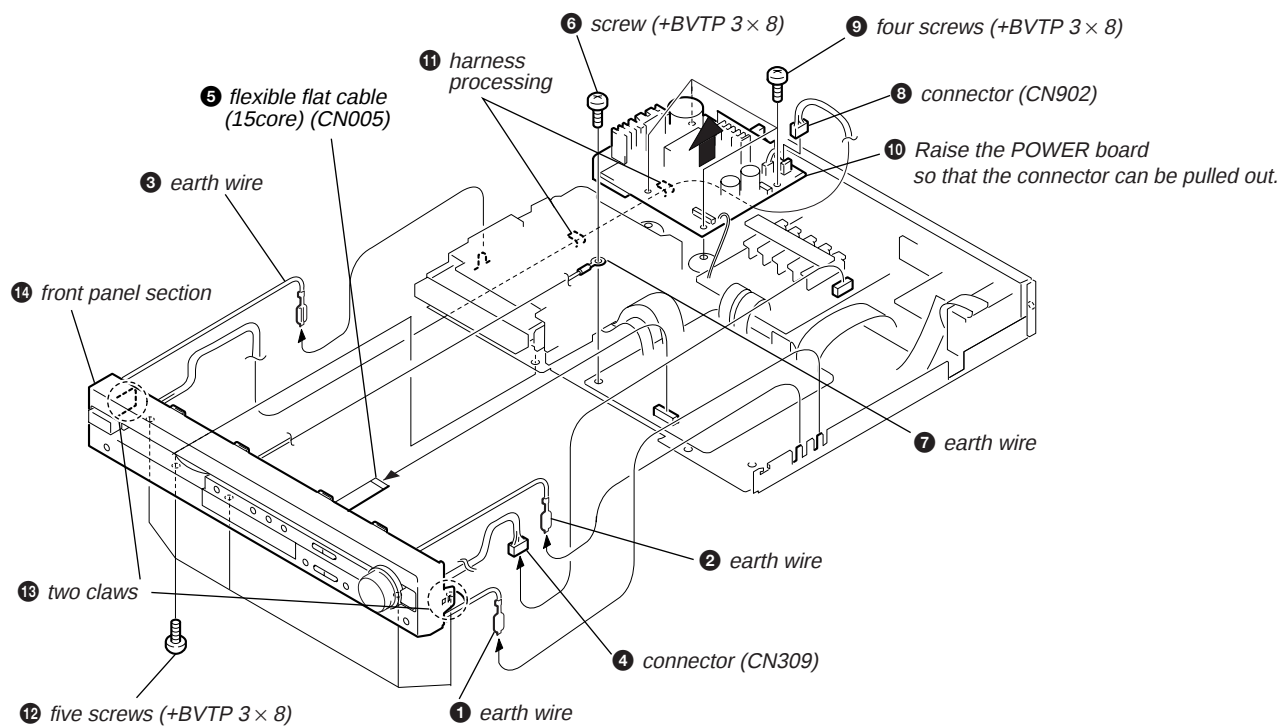


Note: Follow the disassembly procedure in the numerical order given.

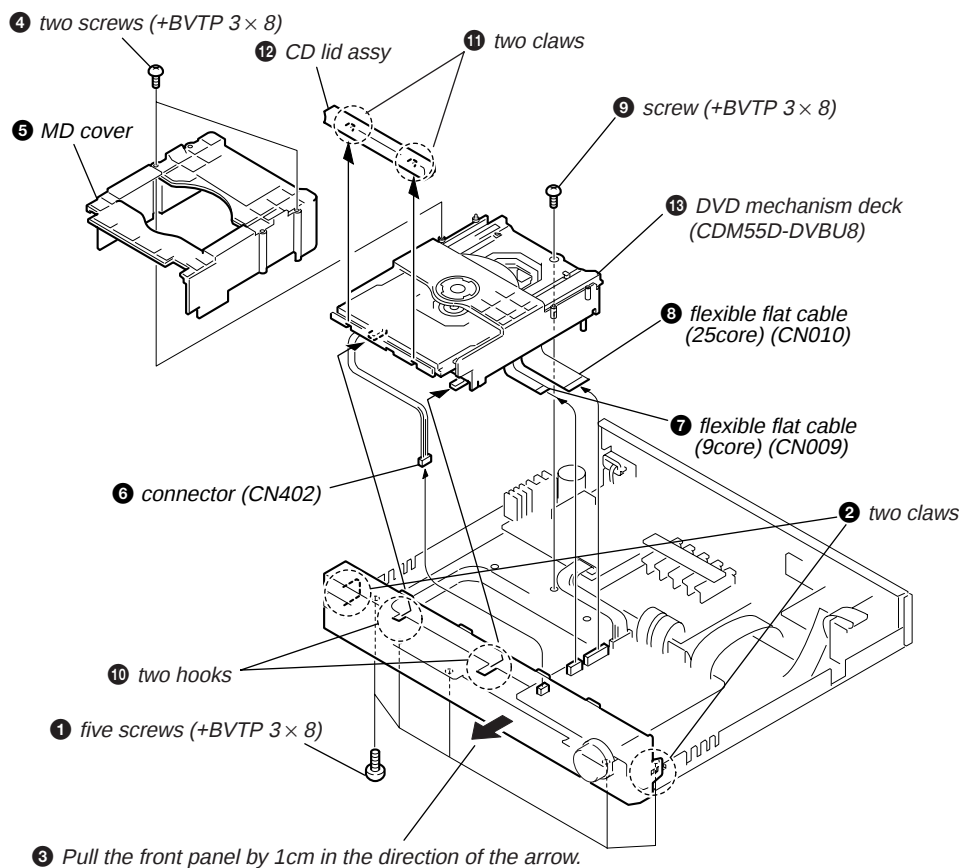
2-1. Case Assy



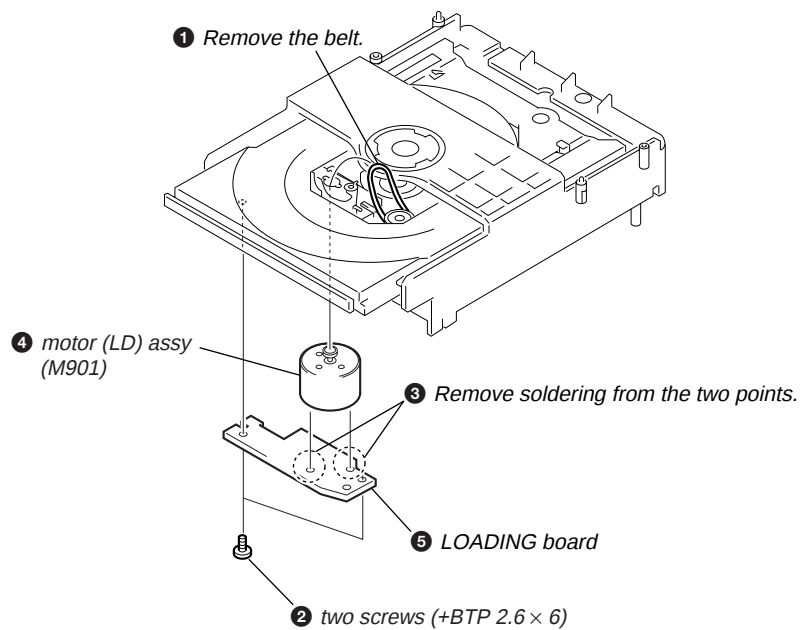
2-2. Front Panel Section



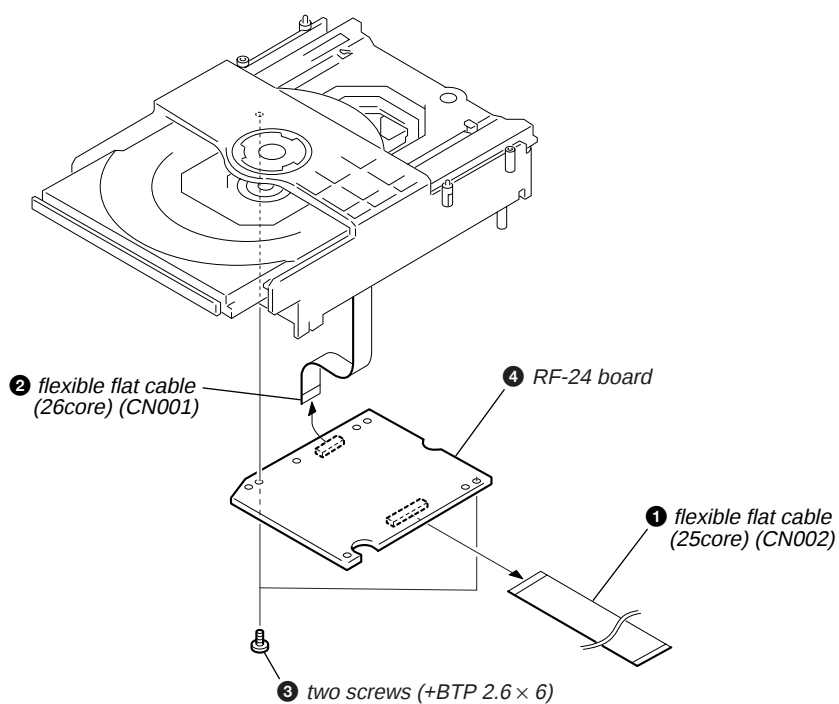
2-3. DVD Mechanism Deck (CDM55D-DVBU8)



2-4. LOADING Board, Motor (LD) Assy (M901)

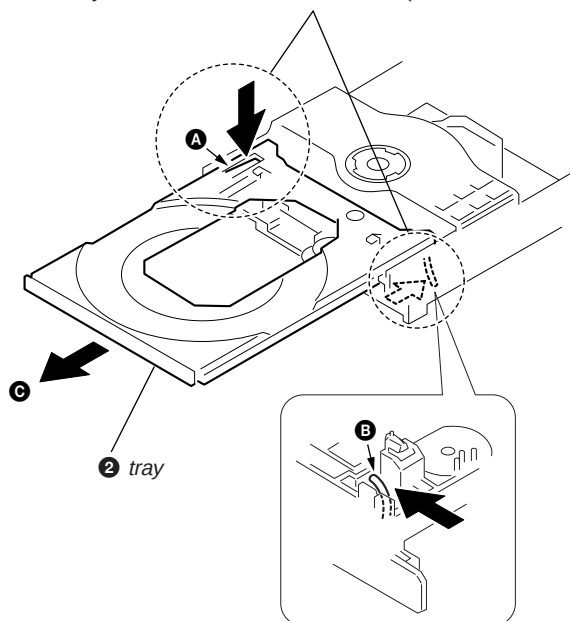


2-5. RF-240 Board

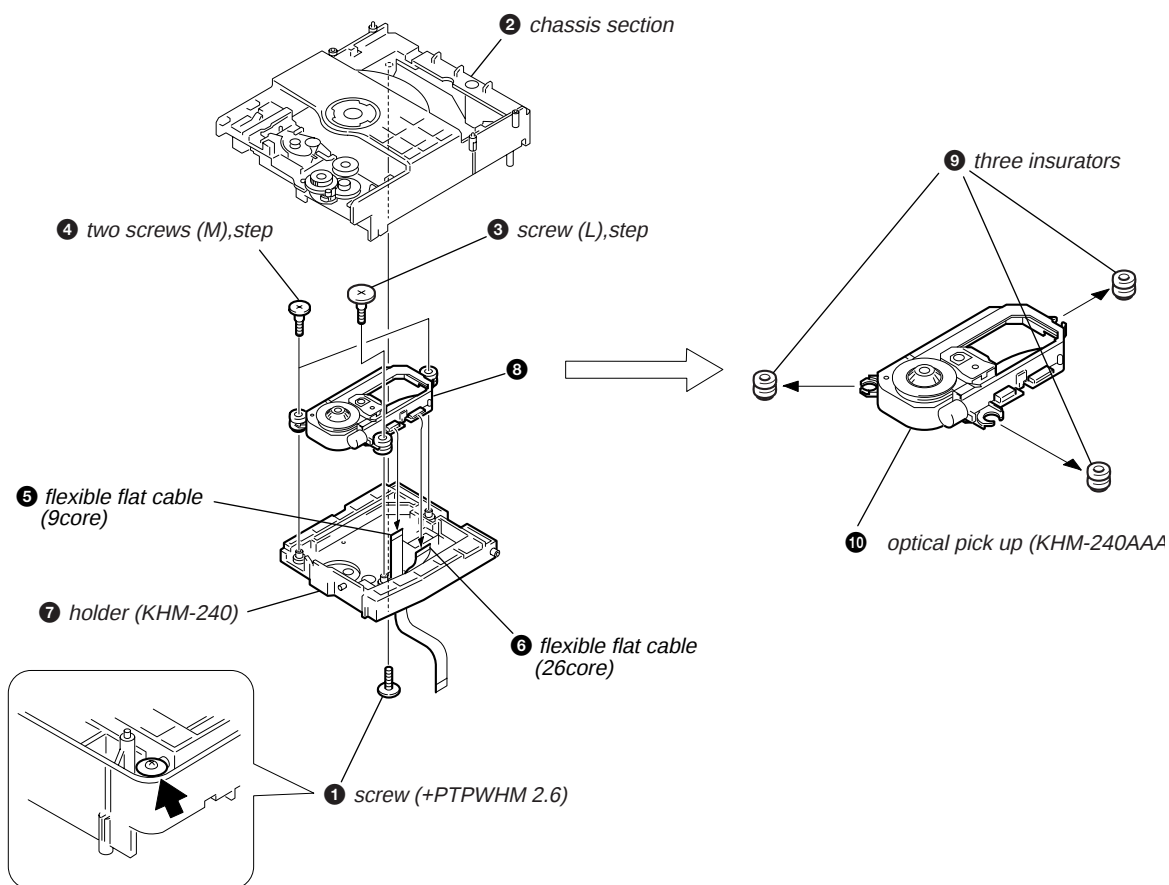


2-6. Tray

- ① While pressing the two protrusions **A** and **B** to unlock the two claws as shown, pull the tray in the direction of the arrow **C**. (Be careful of the claws.)



2-7. Optical Pick-up (KHM-240AAA)



SECTION 3

TEST MODE

Note 1: About "R"

As this unit has only a few buttons, some operations require the use of remote commander (RM-SP10/provided with unit: 1-477-322-11) buttons. These operations are indicated as "R" in this manual.

Example: **[ENTER "R"]** ...Press the **[ENTER]** button of the remote commander.

Note 2: Incorrect operations may be performed if the test mode is not entered properly.

In this case, press the **[POWER]** button to turn the power off, and retry to enter the test mode.

3-1. Version Display Mode

Procedure:

1. Press the **[]** button on the main unit or **[] "R"** button on the remote commander to turn the set on.
2. Press three buttons of **[FUNCTION]**, **[◀◀]** and **[]** simultaneously for two seconds.
3. The message "VER. 1. **" is displayed for a moment.

3-2. Jog Test Mode

Procedure:

1. Press the **[]** button on the main unit or **[] "R"** button on the remote commander to turn the set on.
2. Press three buttons of **[BAND]**, **[]** and **[]** simultaneously.
3. The fluorescent indicator displays "JOG 0". The value "JOG 0" increases like +1, +2, +3... if rotating the VOLUME knob clockwise, or it decreases like -1, -2, -3,... if rotating counter-clockwise.
4. To exit from this mode, press the **[POWER]** button to turn the set off.

3-3. Key Test Mode

Procedure:

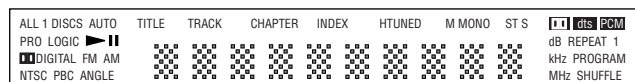
1. Press the **[]** button on the main unit or **[] "R"** button on the remote commander to turn the set on.
2. Press three buttons of **[DISPLAY]**, **[]** and **[]** simultaneously.
3. The message "KEY NUM 0" is displayed and "0" blinks.
4. Each time a button is pressed, "KEY NUM 0" value increases. However, once a button is pressed, it is no longer taken into account.
5. When all buttons are pressed, "KEY NUM 11" appears and the number blinking is stopped.
6. To exit from this mode, press the **[POWER]** button to turn the set off.

3-4. Display Test Mode

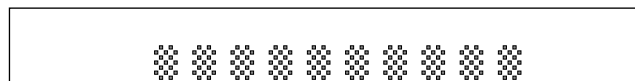
Procedure:

1. Press the **[]** button on the main unit or **[] "R"** button on the remote commander to turn the set on.
2. Press three buttons of **[BAND]**, **[]** and **[]** simultaneously.
3. All segments are turned on.

4. When the **[▶▶]** button is pressed, the display will light up as follows.



5. Press the **[▶▶]** button, confirm the display.



6. Press the **[▶▶]** button, all segments are turned off.
7. Every pressing of the **[▶▶]** button turns on each segments in the same order.
8. To exit from this mode, press the **[POWER]** button to turn the set off.

3-5. OSD Test Mode

Procedure:

1. Press the **[]** button on the main unit or **[] "R"** button on the remote commander to turn the set on.
2. Set the **[FUNCTION]** to DVD.
3. While pressing two buttons of **[DISPLAY]** and **[]** simultaneously, turn the VOLUME knob clockwise.
4. The Test Mode Menu is displayed on the TV screen.
5. To execute each function, select the number on the remote commander.
6. See the following section for explanation in detail.
7. To exit from this mode, press the **[POWER]** button to turn the set off.

3-6. Disc Tray Lock

Procedure:

1. Press the **[]** button on the main unit or **[] "R"** button on the remote commander to turn the set on.
2. Press two buttons of **[DISPLAY]** and **[◀◀]** simultaneously for two seconds.
3. The message "LOCKED" is displayed and the tray is locked. (Even if exiting from this mode, the tray is still locked.)
4. Press two buttons of **[DISPLAY]** and **[◀◀]** simultaneously for two seconds again.
5. The message "UNLOCKED" is displayed and the tray is unlocked.
6. To exit from this mode, press the **[POWER]** button to turn the set off.

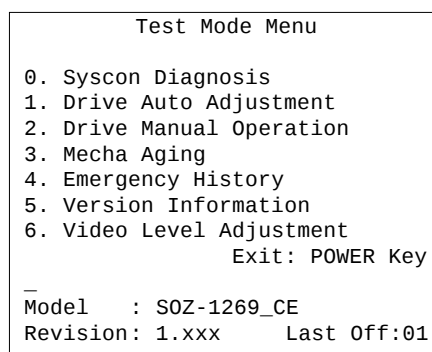
3-7. General Description

The Test Mode allows you to make diagnosis and adjustment easily using the remote commander and monitor TV. The instructions, diagnostic results, etc. are given on the on-screen display (OSD).

3-8. Starting Test Mode

Set the **[FUNCTION]** to DVD with the main unit power on. Next, while pushing the **[]** button and the **[DISPLAY]** button on the main unit at the same time, turn the **[VOLUME]** knob to the right to start Test Mode and display the menu shown below on the TV screen. At the bottom of the menu screen, the model name and revision number are displayed.

To execute each function, select the desired menu and press its number on the remote commander. To exit from Test Mode, press the **[POWER]** button.



3-9. Syscon Diagnosis

The same contents as board detail check by serial interface can be checked from the remote commander.

On the Test Mode Menu screen, press the **[0 "R"]** key on the remote commander, and the following check menu will be displayed.

```

    ### Syscon Diagnosis ###
          Check Menu
0. Quit
1. All
2. Version
3. Peripheral
4. Servo
5. Supply
6. AV Decoder
7. Video
8. Audio
9. DSD Decoder
—

```

0. Quit

Quit the Syscon Diagnosis and return to the Test Mode Menu.

1. All

All items continuous check

This menu checks all diagnostic items continuously. Normally, all items are checked successively one after another automatically unless an error is found, but at a certain item that requires judgment through a visual check to the result, the following screen is displayed for the key entry.

```

    ### Syscon Diagnosis ###

Diag All Check
No. 2 Version

    2-3. ROM Check Sum
Check Sum = 2005

Press NEXT Key to Continue
Press PREV Key to Repeat
—

```

For the ROM Check, the check sum calculated by the Syscon is output, and therefore you must compare it with the specified value for confirmation.

Following the message, press the **[▶▶ "R"]** key to go to the next item, or **[◀◀ "R"]** key to repeat the same check again. To quit the diagnosis and return to the Check Menu screen, press the **[■ "R"]** or **[ENTER "R"]** key. If an error occurred, the diagnosis is suspended and the error code is displayed as shown below.

```

    ### Syscon Diagnosis ###

    3-3. EEPROM Check
Error 03: EEPROM Write/Reed N
Address   : 00000001
Write Data : 2492
Read Data  : 2490
Press NEXT Key to Continue
Press PREV Key to Repeat
—

```

Press the **[■ "R"]** key to quit the diagnosis, or **[◀◀ "R"]** key to repeat the same item where an error occurred, or **[▶▶ "R"]** key to continue the check from the item next to faulty item.

Selecting 2 and subsequent items calls the submenu screen of each item.

For example, if "5. Supply" is selected, the following submenu will be displayed.

```

    ### Syscon Diagnosis ###
          Check Menu
          No. 5 Supply
0. Quit
1. All
2. ARP Register Check
3. ARP to RAM Data Bus
4. ARP to RAM Address Bus
5. ARP RAM Check
—

```

0. Quit

Quit the submenu and return to the main menu.

1. All

All submenu items continuous check

This menu checks 2 and subsequent items successively. At the item where visual check is required for judgment or an error occurred, the checking is suspended and the message is output for key entry. Normally, all items are checked successively one after another automatically unless an error is found.

Selecting 2 and subsequent items executes respective menus and outputs the results.

For the contents of each submenu, see "Check Items List".

General Description of Checking Method

2. Version

(2-2) Revision

ROM revision number is displayed.

Error: Not detected.

The revision number defined in the source file of ROM (IC108) is displayed with four digits.

(2-3) ROM Check Sum

Check sum is calculated.

Error: Not detected.

The 8-bit data are added at addresses 0x000F0000 ~ 0x002EFFFF of ROM (IC108) and the result is displayed with 4-digit hexadecimal number. Error is not detected. Compare the result with the specified value.

(2-4) Model Type

Model code is displayed.

Error: Not detected.

The model code read from EEPROM (IC101) is displayed with 2-digit hexadecimal number.

(2-5) Region

Region code is displayed.

Error: Not detected.

The region code determined from the model code is displayed.

3. Peripheral

(3-2) EEPROM Check

Data write → read, and accord check

Error 03: EEPROM write/read discord

Data 0x9249, 0x2942, 0x4294 are written to addresses 0x00~0xFF of EEPROM (IC101), then read and checked.

Before writing, the data are saved, then after checking, they are written to restore the contents of EEPROM.

4. Servo

(4-2) Servo DSP Check

Data write → read, and accord check

Error 12: Read data discord

Data 0x9249, 0x2942, 0x4294 are written to the address 0x602 of RAM in the Servo DSP (IC302), then read and checked.

(4-3) DSP Driver Test

Test signal data → DSP Driver

Error: Not detected.

Caution: Do not conduct this test with a mechanical deck connected.

The maximum voltage is applied to the Servo Driver IC (IC401, IC802). If mechanical deck is connected, the motor and optics could be damaged. Disconnect mechanical deck following the output message, then enter specified 4- or 5-digit number from the remote commander, and press the **ENTER "R"**. The test is conducted only when the input data accord. Check the output level, then press the **▶▶I "R"** to finish the test.

This test is skipped if "All" is selected.

Supplement: How to disconnect mechanical deck

Disconnect flat cables connected to the CN009 and CN010 of DVD board. Also, disconnect harness from the CN402.

5. Supply

Caution: Do not conduct this check with a mechanical deck connected.

An access is made to the stream supply and servo control IC (IC302) and external RAM (IC303) using check data. If mechanical deck is connected, the motor and optics could be damaged. This check is also executed by the "All" menu item.

Supplement: How to disconnect mechanical deck

Disconnect flat cables connected to the CN009 and CN010 of DVD board. Also, disconnect harness from the CN402.

(5-2) ARP Register Check

Data write → read, and accord check

Error 08: ARP register write, and read data discord

Data 0x00 to 0xFF are written to the TMAX register (address 0xC6) in ARP (IC302), then they are read and checked.

(5-3) ARP to RAM Data Bus

Data write → read, and accord check

Error 09: ARP ↔ RAM data bus error

Data 0x0001 to 0x8000 where one bit each is set to 1 are written to the address 0 of RAM (IC303) connected to the ARP (IC302) through the bus, then they are read and checked. In case of discord, written bit pattern and read data are displayed. If data where multiple bits are 1 are read, the bits concerned may touch each other. Further, if data where certain bit is always 1 or 0 regardless of written data, the line could be disconnected or shorted.

(5-4) ARP to RAM Address Bus

Data write → other address read discord check

Error 10: ARP → RAM address bus error

Caution: Address and data display in case of an error is different from the display of other diagnosis (described later).

Before starting the test, all addresses of RAM (IC303) are cleared to 0x0000.

First, 0xA55A is written to the address 0x00000, and the address data are read and checked from addresses 0x00001 to 0x80000 while shifting 1 bit each. Next, the data at that address is cleared, and it is written to the address 0x00001, and read and checked in the same manner. This check is repeated up to the address 0x80000 while shifting the address data by 1 bit each.

If data other than 0 is read at the addresses except written address, an error is given because all addresses were already cleared to 0. In this check, the error display pattern is different from that of other diagnosis; read data, written address, and read address are displayed in this order. However, the message uses same template, and accordingly exchange Address and Data when reading. The following display, for example,

```
### Syscon Diagnosis ###
```

```
5-4. ARP to RAM Address Bus
Error 10: ARP - RAM Address B
Address   : 0000A55A
Write Data: 00000000
Read Data : 00080000
Press NEXT Key to Continue
Press PREV Key to Repeat
—
```

shows the data 0xA55A was read from address 0x00080000 though it was written to the address 0x00000000. This implies that these addresses are in the form of shadow. Also, if the read data is not 0xA55A, another error will be present.

(5-5) ARP RAM Check

Data write → read, and accord check

Error 11: ARP RAM read data discord

The program code data stored in ROM are copied to all areas of RAM (IC303) connected to the ARP (IC302) through the bus, then they are read and checked if they accord. If the detail check was selected initially, the data are written to all areas and read, then the same test is conducted once again with the data where all bits are inverted between 1 and 0. If discord is detected, faulty address, written data, and read data are displayed following the error code 11, and the test is suspended.

6. AV Decoder

- (6-2) 1930 RAM
Data write → read, and accord check
Error 13: AVD RAM read data discord
The program code data stored in ROM (IC108) are copied to all areas of RAM (IC504, IC505) connected to the AVD (IC503) through the bus, then they are read and checked if they accord. Further, the same test is conducted once again with the data where all bits are inverted between 1 and 0. If discord is detected, faulty address, written data, and read data are displayed following the error code 13, and the test is suspended.
- (6-3) 1930 SP
ROM → AVD RAM → Video OUT
Error: Not detected.
The data including sub picture streams in ROM (IC108) are transferred to the RAM (IC504, IC505) connected to the AVD (IC503), and output as video signals from the AVD (IC503).
They are output from all video terminals (Composite, Y/C, Component).

7. Video

- (7-2) Color Bar
AVD color bar command write → Video OUT
Error: Not detected.
The command is transferred to the AVD, and the color bar signals are output from video terminals.
They are output from all video terminals (Composite, Y/C, Component).
- (7-3) Composite Out
- (7-4) Y/C Out
- (7-6) Component Out

8. Audio

- (8-2) ARP → 1930
Error 14 : ARP → 1930 video NG
15 : ARP → 1930 audio NG
- (8-3) Test Tone
All channels
2ch Left
2ch Right
Front Left
Front Right
Rear Left
Rear Right
Center
Sub Woofer

9. DSD Decoder

- (9-2) 2752 ID Chack
- (9-3) 2752 RAM Check

Check Items List

- 2) Version
(2-2) Revision
(2-3) ROM Check Sum
(2-4) Model Type
(2-5) Region
- 3) Peripheral
(3-2) EEPROM Check
- 4) Servo
(4-2) Servo DSP Check
(4-3) DSP Driver Test
- 5) Supply
(5-2) ARP Register Check
(5-3) ARP to RAM Data Bus
(5-4) ARP to RAM Address Bus
(5-5) ARP RAM Check
- 6) AV Decoder
(6-2) 1930 RAM
(6-3) 1930 SP
- 7) Video
(7-2) Color Bar
(7-3) Composit Out
(7-4) Y/C Out
(7-6) Component Out
- 8) Audio
(8-2) ARP → 1930
(8-3) Test Tone
- 9) DSD Decoder
(9-2) 2752 ID Check
(9-3) 2752 RAM Check

Error Codes List

- 00: Error not detected
01: RAM write/read data discord
02: Gate array NG
03: EEPROM NG
08: ARP register read data discord
09: ARP ↔ RAM data bus error
10: ARP ↔ RAM address bus error
11: ARP RAM read data discord
12: Servo DSP NG
13: 1930 SDRAM NG
14: ARP → 1930 video NG
15: ARP → 1930 audio NG
16: 1910 UCODE download NG
17: System call error (function not supported)
18: System call error (parameter error)
19: System call error (illegal ID number)
20: System call error (time out)
90: Error occurred
91: User verification NG
92: Diagnosis cancelled

3-10. Drive Auto Adjustment

On the Test Mode Menu screen, press the **[1 "R"]** key on the remote commander, and the drive auto adjustment menu will be displayed.

```

## Drive Auto Adjustment ##

      Adjustment Menu

0. ALL
1. DVD-SL
2. CD
3. DVD-DL
4. LCD

Exit: RETURN

```

Normally, **[0 "R"]** is selected to adjust DVD (single layer), CD, DVD (dual layer), and SACD in this order. But, individual items can be adjusted for the case where adjustment is suspended due to an error. In this mode, the adjustment can be made easily through the operation following the message displayed on the screen.

The disc used for adjustment must be the one specified for adjustment. However, for SACD disc, use the player with initial data if the disc is not available.

0. All

Select **[0 "R"]** and press the **[ENTER "R"]** key, and the servo set data in EEPROM will be initialized. Then, 1. DVD-SL disc, 2. CD disc, 3. DVD-DL disc, and 4. SACD disc are adjusted in this order. Each time one disc was adjusted, it is ejected. Replace it with the specified disc following the message. Though the message to confirm whether discs other than SACD disc are adjusted is not displayed, you can finish the adjustment if pressing the **[■ "R"]** button. During adjustment of each disc, the measurement for disc type judgment is made. As automatic adjustment does not judge the disc type unlike conventional models, take care not to insert wrong type discs. Also, do not give a shock during adjustment.

1. DVD-SL (single layer)

Select **[1 "R"]**, insert DVD single layer disc, and press the **[ENTER "R"]** key, and the adjustment will be made through the following steps, then adjusted values will be written to the EEPROM.

DVD Single Layer Disc Adjustment Steps

1. SLED TILT Reset
2. Disc Check Memory SL
3. Wait 500 msec
4. Set Disc Type SL
5. LD ON
6. Spdl Start
7. Wait 1 sec
8. Focus Servo ON 0
9. Auto Track Offset Adjust
10. CLVA ON
11. Wait 500 msec
12. Tracking ON
13. Wait 1 sec
14. Sled ON
15. Check CLV Lock
16. Auto LFO Adjust
17. Auto Focus Offset Adjust
18. Auto Tilt Position Adjust
19. Auto Focus Gain Adjust
20. Auto Focus Offset Adjust
21. EQ Boost Adjust
22. Auto LFO Adjust
23. Auto Track Gain Adjust
- Search Check
24. 32Tj Fwd
25. 32Tj Rev
26. 500Tj Fwd
27. 500Tj Rev
28. All Servo Stop
29. Eep Copy Loop Filter Offset

2. CD

Select [2 "R"] , insert CD disc, and press the [ENTER "R"] key, and the adjustment will be made through the following steps, then adjusted values will be written to the EEPROM.

CD Adjustment Steps

1. Sled Tilt Rest
2. Disc Check Memory CD
3. Wait 500 msec
4. Set Disc Type CD
5. LD ON
6. Spdl Start
7. Wait 500 msec
8. Focus Servo ON 0
9. Auto Track Offset Adjust
10. CLVA ON
11. Wait 500 msec
12. Tracking ON
13. (TC Display Start)
14. Wait 1 sec
15. Jitter Display Start
16. Sled ON
17. Check CLV ON
18. Auto LFO Adjust
19. Auto Focus Offset Adjust
- 20.
21. Auto Focus Gain Adjust
22. Auto Focus Offset Adjust
23. Eq Boost Adjust
24. Auto LFO Adjust
25. Auto Track Gain Adjust
- Search Check
26. 32Tj Fwd
27. 32Tj Rev
28. 500Tj Fwd
29. 500Tj Rev
30. All Servo Stop

3. DVD-DL (dual layer)

Select [3 "R"] , insert DVD dual layer disc, and press the [ENTER "R"] key, and the adjustment will be made through the following steps, then adjusted values will be written to the EEPROM.

DVD Dual Layer Disc Adjustment Steps

1. Sled Tilt Reset
2. Disc Check Memory DL
3. Wait 500 msec
4. Set Disc Type DL
5. LD ON
6. Spdl Start
7. Wait 1 sec
- Layer 1 Adjust
8. Focus Servo ON 0
9. Auto Track Offset Adjust
10. Clva ON
11. Wait 500 msec
12. Tracking ON
13. Wait 500 msec
14. Sled ON
15. Check CLV Lock
16. Auto Loop Filter Offset Auto Focus Adjust
- 17.
18. Auto Focus Gain Adjust
19. Auto Focus Offset Adjust
20. Eq Boost Adjust
21. Auto Loop Filter Offset
22. Auto Track Gain Adjust
- Search Check
23. 32Tj Fwd
24. 32Tj Rev
25. 500Tj Fwd
26. 500Tj Rev
- Layer 0 Adjust
27. Fj (L1 -> L0)
28. Auto Track Offset Adjust L0
29. Clva ON
30. Wait 500 msec
31. Tracking ON
32. Wait 500 msec
33. Sled ON
34. Check CLV Lock
35. Auto Focus Filter Offset
36. Auto Focus Adjust
- 37.
38. Auto Focus Gain Adjust
39. Auto Focus Offset Adjust
40. Eq Boost Adjust
41. Auto Loop Filter Offset
42. Auto Track Gain Adjust
- Search Check
43. 32Tj Fwd
44. 32Tj Rev
45. 500Tj fwd
46. 500Tj Rev
- Layer Jump Check
47. Lj (L0 -> L1)
48. Lj (L1 -> L0)
49. All Servo Stop

4. LCD

Select **4 "R"**, insert SACD disc, and press the **ENTER "R"** key, and the adjustment will be made through the following steps, then adjusted values will be written to the EEPROM. However, if SACD disc is not available, use the player with initial data, skipping the SACD adjustment. In this case, you can finish the adjustment if pressing the **■ "R"** button.

SACD Adjustment Steps

1. Sled Tilt Reset
2. Set Disc Type CD
3. LD ON
4. Spdl Start
5. Wait 500 msec
6. Focus Servo ON 0
7. Auto track Offset Adjust
- 8.
9. CLVA ON
10. Wait 500 msec
11. Tracking ON
12. Wait 1 sec
13. Sled ON
14. Check CLV ON
15. Auto LFO Adjust
16. Auto Focus Offset Adjust
- 17.
18. Auto Focus Gain Adjust
19. Auto Focus Offset Adjust
20. Eq Boost Adjust
21. Auto LFO Adjust
22. Auto Track Gain Adjust
23. 32Tj Fwd
24. 32Tj Rev
25. 500Tj Fwd
26. 500Tj Rev
27. All Servo Stop

3-11. Drive Manual Operation

On the Test Mode Menu screen, select **2 "R"**, and the manual operation menu will be displayed. For the manual operation, each servo on/off control and adjustment can be executed manually.

```

## Drive Manual Operation ##

                Operation Menu
1. Disc type
2. Servo Control
3. Track/Layer Jump
4. Manual Adjustment
5. Auto Adjustment
6. Memory Check
7. Sacd Water Mark

0. Disc Check Memory

-                               Exit: Return

```

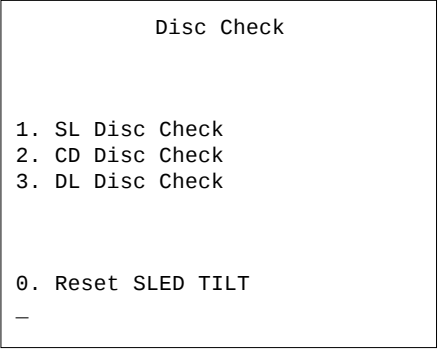
In using the manual operation menu, take care of the following points. These commands do not provide protection, thus requiring correct operation. The sector address or time code field is displayed when a disc is loaded.

1. Set correctly the disc type to be used on the Disc Type screen.
The disc type must be set after a disc was loaded.
The set disc type is cleared when the tray is opened.
2. After power ON, if the Drive Manual Operation was selected, first perform "Reset SLED TILT" by opening 1. Disc Type screen.
3. In case of an alarm, immediately press the **■** button to stop the servo operation, and turn the power OFF.

Basic operation (controllable from front panel or remote commander)

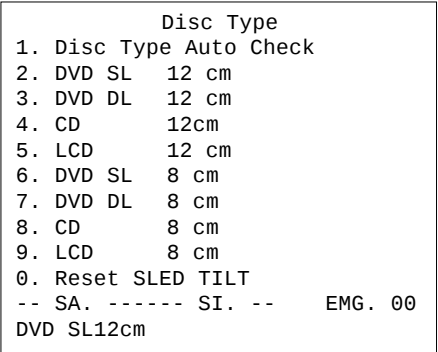
POWER	Power OFF
■ , ■ "R"	Servo stop
≡ , OPEN/CLOSE "R"	Stop+Eject/Loading
RETURN "R"	Return to Operation Menu or Test Mode Menu
⏮ , ⏮ "R" , ⏭ , ⏭ "R"	Transition between sub modes of menu
1 "R" to 9 "R" , 0 "R"	Selection of menu items
↑ "R" , ↓ "R"	Increase/Decrease in manually adjusted value

0. Disc Check Memory

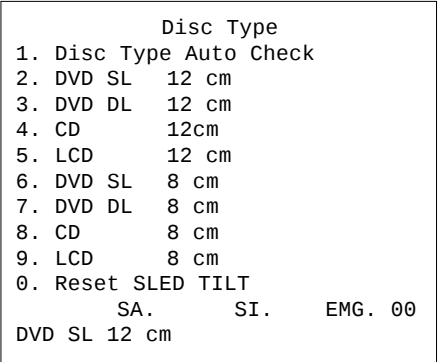


On this screen, the mirror time is measured to judge the disc and it is written to the EEPROM. First load DVD SL disc and press [1“R”], next load CD disc and press [2“R”], and finally load DVD DL disc and press [3“R”]. The adjustment must be executed more than once after default data were written. External vibration or shock to the player must not be given. Reference value for DVD is from 10 to 20, and for CD, from 28 to 4F. Check that the value of CD is larger than that of DVD. When those values are beyond a range perform this adjustment again. From this screen, you can go to another mode by pressing [▶▶“R”] or [◀◀“R”] key, but you cannot enter this mode from another mode. You can enter this mode from the Operation Menu screen only.

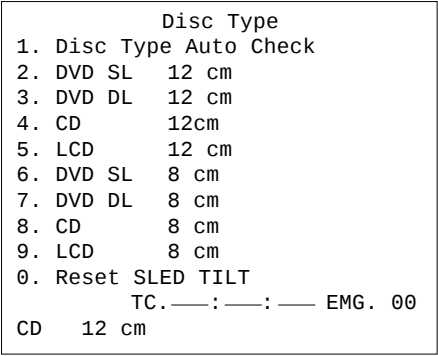
1. Disc Type



On this screen, select the disc type. To select the disc type, press the number of the loaded disc. The selected disc type is displayed at the bottom. Selecting [1“R”] automatically selects and displays the disc type. In case of wrong display, retry “Disc Check Memory”. Also, opening the tray causes the set disc type to be cleared. In this case, set the disc type again after loading. In performing manual operation, the disc type must be set. Once the disc type has been selected, the sector address or time code display field will appear as shown below. These values are displayed when PLL is locked.



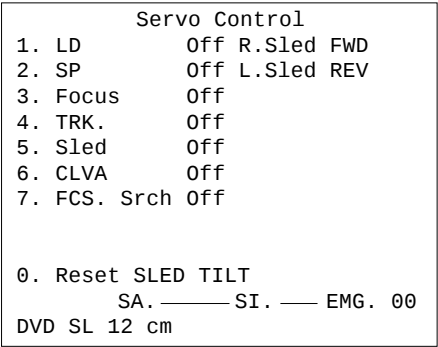
Display when DVD SL 12cm disc was selected



Display when CD 12cm disc was selected

- [0“R”] Reset SLED TILT Reset the Sled and Tilt to initial position.
- [1“R”] Disk Type Check Judge automatically the loaded disc. As the judged result is displayed at the bottom of screen, make sure that it is correct.
If Disc Check Memory menu has not been executed after EEPROM default setting, the disc type cannot be judged. In this case, return to the initial menu and make a check for three types of discs (SL, DL, CD).
- [2“R”] to [9“R”] Select the loaded disc. The adjusted value is written to the address of selected disc. No further entry is necessary if [1“R”] was selected.

2. Servo Control



On this screen, the servo on/off control necessary for replay is executed. Normally, turn on each servo from 1 sequentially and when CLVA is turned on, the usual trace mode becomes active. In the trace mode, DVD sector address or CD time code is displayed. This is not displayed where the spindle is not locked. The spindle could run overriding the control if the spindle system is faulty or RF is not present. In such a case, do not operate CLVA.

0 "R"	Reset SLED TILT	Reset the Sled and Tilt to initial position.
1 "R"	LD	Turn ON/OFF the laser.
2 "R"	SP	Turn ON/OFF the spindle.
3 "R"	Focus	Search the focus and turn on the focus.
4 "R"	TRK	Turn ON/OFF the tracking servo.
5 "R"	Sled	Turn ON/OFF the sled servo.
6 "R"	CLVA	Turn ON/OFF normal servo of spindle servo.
7 "R"	FCS. Srch	Apply same voltage as that of focus search to the focus drive to check the focus drive system.
→ "R"	Sled FWD	Move the sled outward. Perform this operation with the tracking servo turned off.
← "R"	Sled REV	Move the sled inward. Perform this operation with the tracking servo turned off.
↑ "R"	Tilt UP	Move the tilt upward.
↓ "R"	Tilt DOWN	Move the tilt downward.

The following menus are normally not used.

3. Track/Layer Jump

4. Manual Adjustment

5. Auto Adjustment

The persons who do not know well about these menus should not use them.

6. Memory Check

EEPROM Data1					
	CD	LCD	SL	L0	L1
Focus Gain	xx	xx	xx	xx	xx
TRK. Gain	xx	xx	xx	xx	xx
FCS Balance	xx	xx	xx	xx	xx
Focus Bias	xx	xx	xx	xx	xx
TRV. Offset	xx	xx	xx	xx	xx
L. F. Offset	xx	xx	xx	xx	xx
EQ Boost	xx	xx	xx	xx	xx
Mirror Time	xx	xx	xx	xx	xx
_DOWN: Next Data					
CLEAR: Default Set				page.1/2	

EEPROM Data1					
	CD	LCD	SL	L0	L1
RF Jitter	xx	--	xx	xx	xx
RF Level	xx	--	xx	--	--
FE Level	xx	--	xx	--	--
FE Balance	xx	--	xx	--	--
TRV. Level	xx	--	xx	--	--
Analog FRSW	xx	xx	xx	xx	xx
PLL DacGain	xx	xx	xx	xx	xx
—					
UP : Prev Data				page.2/2	
CLEAR: Default Set					

This screen displays current servo adjusted data stored in the EEPROM. Though adjusted data can be initialized with the **CREAR** "R" key, they cannot be restored after initialization.

So, before clearing, make a note of the adjusted data.

For reference, the drive has been designed so that the gain center value is 20 and offset value is 80. Other values will be in a range of 10 to 80. If extreme value such as 00 or FF is set, adjustment will be faulty. In such a case, check for disc scratch or cable disconnection, then perform adjustment again.

7. Sacd Water Mark

3-12. MECHA AGING

```

### Mecha Aging ###

Press OPEN Key

Abort: STOP key

```

On the Test Mode Menu Screen, selecting **3** "R" executes the aging of the mechanism. Start aging with **PLAY**. During aging, the repeat cycle is displayed. Aging can be aborted at any time by pressing the **■** "R" key. After the operation is stopped, press the **■** "R" key or **RETURN** "R" key again to return to the Test Mode Menu. **SEARCH** Aging is only for a CD.

3-13. EMERGENCY HISTORY

### EMG. History ###									
Laser Hours				CD		xxxxxxxh			
				DVD		xxxxxxxh			
1.	00	00	00	00	00	00	00	00	00
	00	00	00	00	00	00	00	00	00
2.	00	00	00	00	00	00	00	00	00
	00	00	00	00	00	00	00	00	00
Select: 1 - 9					Scroll: UP/DOWN				
(1: Last EMG.)					Exit: RETURN				

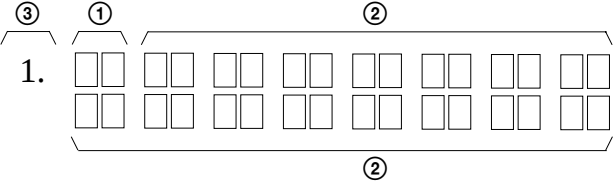
On the Test Mode Menu screen, selecting [4 “R”] displays the information such as servo emergency history. The history information from last 1 up to 10 can be scrolled with [↑ “R”] key or [↓ “R”] key. Also, specific information can be displayed by directly entering that number with ten keys.

The upper two lines display the laser ON total hours. Data below minutes are omitted.

Clearing History Information

- Clearing laser hours
Press the [DVD DISPLAY “R”] and [CREAR “R”] keys in this order.
Both CD and DVD data are cleared.
- Clearing emergency history
Press the [DVD TOP MENU “R”] and [CREAR “R”] keys in this order.
- Initializing set up data
Press the [DVD MENU “R”] and [CREAR “R”] keys in this order.
The data have been initialized when “Set Up Initialized” message is displayed. The EMG. History screen will be restored soon.

How to see Emergency History



- ① : Emergency Code
- ② : Dont Care
These codes are used for verification of software designing.
- ③ : Historical order 1 to 9

Emergency Codes List

- 10: Communication to IC001 (RF-240 board) failed.
- 11: Each servo for focus, tracking, and spindle is unlocked.
- 12: Communication to EEPROM, IC101 (DVD board) failed.
- 13: Writing of hours meter data to EEPROM, IC101 (DVD board) failed.
- 14: Communication to Servo DSP IC302 (DVD board) failed, or Servo DSP is faulty.
- 20: Initialization of tilt servo and sled servo failed. They are not placed in the initial position.
- 21: Tilt servo operation error
- 22: Syscon made a request to move the tilt servo to wrong position.
- 23: Sled servo operation error
- 24: Syscon made a request to move the sled servo to wrong position.
- 30: Tracking balance adjustment error
- 31: Tracking gain adjustment error
- 32: Focus balance adjustment error
- 33: Focus bias adjustment error
- 34: Focus gain adjustment error
- 35: Tilt servo adjustment error
- 36: RF equalizer adjustment error
- 37: RF group delay adjustment error

- 38: Jitter value after adaptive servo operation is too large.
- 40: Focus servo does not operate.
- 41: With a dual layer (DL) disc, focus jump failed.
- 50: CLV (spindle) servo does not operate.
- 51: Spindle does not stop.
- 60: With a DVD disc, Syscon made a request to seek nonexistent address.
- 61: With a CD disc, Syscon made a request to seek nonexistent address.
- 62: With a CD disc, Syscon made a request to seek nonexistent track No. and index No.
- 63: With a DVD disc, seeking of target address failed.
- 64: With a CD disc, seeking of target address failed.
- 65: With a CD disc, seeking of target index failed.
- 70: With a DVD disc, physical information data could not be read.
- 71: With a CD disc, TOC data could not be read.
- 80: Disc type judgment failed.
- 81: As disc type judgment failed, retry was repeated.
- 82: As disc type judgment failed, a measurement error occurred.
- 83: Disc type could not be judged within the specified time.
- 84: Illegal command code was received from Syscon.
- 85: Illegal command was received from Syscon.

3-14. VERSION INFORMATION

## Version Information ##	
IF con.	Ver: x. xxx (xxxx) Group 00
SYScon.	Ver: x. xxx (xxxx) Model xx Region 0x
Servo DSP Ver:X.XXX OPT Type:2 Laser	
Exit: RETURN	

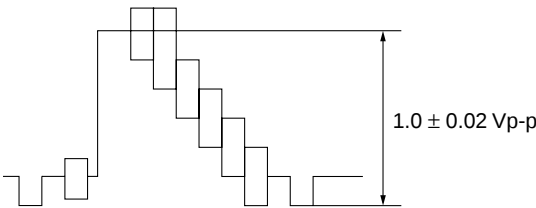
On the Test Mode Menu screen, selecting [5 “R”] displays the ROM version and region code.
The parenthesized hexadecimal number in version field is checksum value of ROM.

3-15. VIDEO LEVEL ADJUSTMENT

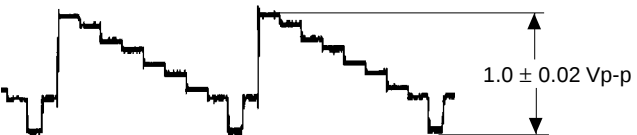
On the Test Mode Menu screen, selecting [6 “R”] displays color bars for video level adjustment. During display of color bars, OSD disappears but the menu screen will be restored if pressing any key.

- Measurement point : EURO AV, ⇨ OUTPUT (TO TV)
(AEP, UK)
: MONITOR OUT, S VIDEO
(Malaysia, Singapore)
(75 Ω terminating resistance)
- Measuring instrument : Oscilloscope
- Adjustment device : RV501 on DVD board
- Specified value : 1.0 ± 0.02 Vpp

Waveform : Composite (AEP, UK)



Waveform : S-VIDEO, Y (Malaysia, Singapore)



SECTION 4 ELECTRICAL ADJUSTMENT

In making adjustment, refer to 4-2. Adjustment Related Parts Arrangement.

Note: During diagnostic check, the characters and color bars can be seen only with the NTSC monitor. Therefore, for diagnostic check, use the monitor that supports both NTSC and PAL modes

This section describes procedures and instructions necessary for adjusting electrical circuits in this set.

Instruments required:

- 1) Color monitor TV
- 2) Oscilloscope 1 or 2 phenomena, band width over 100 MHz, with delay mode
- 3) Frequency counter (over 8 digits)
- 4) Digital voltmeter
- 5) Standard commander*
- 6) DVD reference disc
HLX-501 (J-6090-071-A) (dual layer)
HLX-503 (J-6090-069-A) (single layer)
HLX-504 (J-6090-088-A) (single layer)
HLX-505 (J-6090-089-A) (dual layer)
- 7) SACD reference disc
HLXA-509 (J-6090-090-A)

* Use only the designated remote control when adjusting this system component.

4-1. ADJUSTMENT OF VIDEO SYSTEM

1. Video Level Adjustment (DVD BOARD) (AEP, UK)

<Purpose>

This adjustment is made to satisfy the NTSC standard, and if not adjusted correctly, the brightness will be too large or small.

Mode	Video level adjustment in test mode
Signal	Color bars
Test point	EURO AV,  OUTPUT (TO TV) Connector pin ⑲ (75 Ω terminated)
Instrument	Oscilloscope
Adjusting element	RV501
Specification	1.0 ± 0.02 Vp-p

Adjusting method:

- 1) In the test mode initial menu "6" Video Level Adjustment, set so that color bars are generated.
- 2) Adjust the RV501 to attain 1.0 ± 0.02 Vp-p.



2. Video Level Adjustment [S VIDEO] (DVD BOARD) (Malaysia, Singapore)

<Purpose>

Check S-terminal video output. If it is incorrect, pictures will not be displayed correctly in spite of connection to the TV with a S-terminal cable.

Mode	Video level adjustment in test mode
Signal	Color bars
Test point	MONITOR OUT, S VIDEO (S-Y) connector (75 Ω terminated)
Instrument	Oscilloscope
Adjustment element	RV501
Specification	1.0 ± 0.02 Vp-p

Adjusting method:

- 1) In the test mode initial menu "6" Video Level Adjustment, set so that color bars are generated.
- 2) Adjust the RV501 to attain 1.0 ± 0.02 Vp-p.



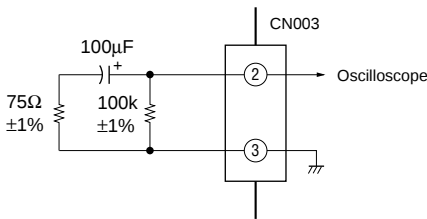
3. Checking S Video Output S-C (DVD BOARD)
(Malaysia,Singapore)

<Purpose>

This checks whether the S-C satisfies the NTSC Standard. If it is not correct, the colors will be too dark or light.

Mode	Video level adjustment in test mode
Signal	Color bars
Test point	CN003 pin ②
Instrument	Oscilloscope
Specification	286 ± 50 mVp-p

Connection:



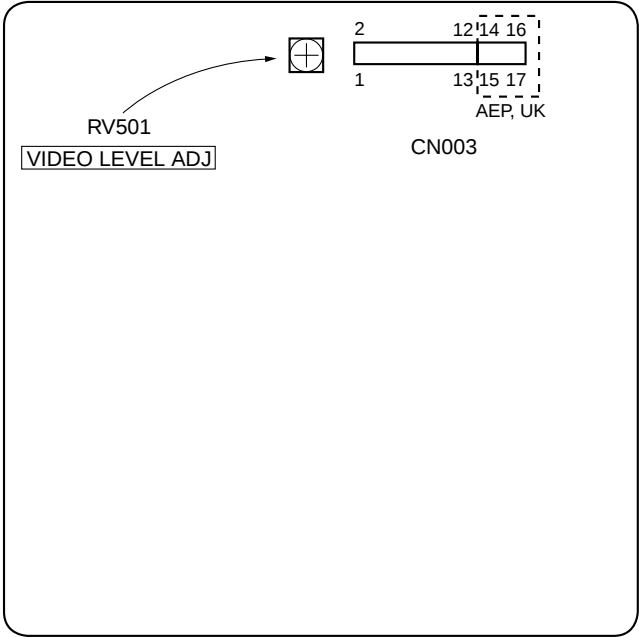
Checking method:

- 1) Confirm that the S-C burst is 286 ± 50 mVp-p.



4-2. ADJUSTMENT RELATED PARTS
ARRANGEMENT

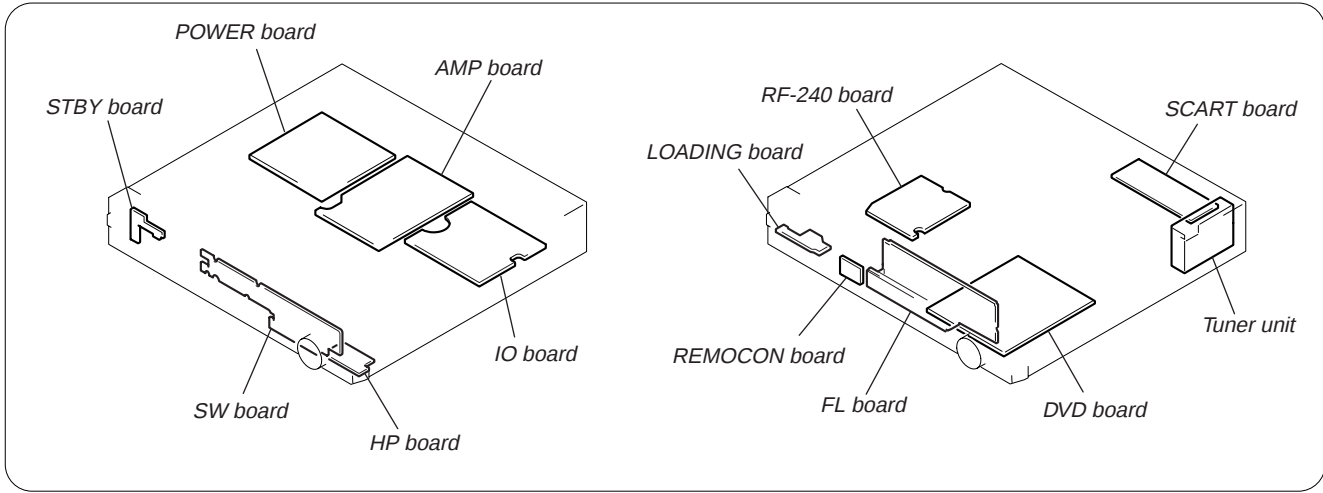
DVD BOARD (SIDE A)



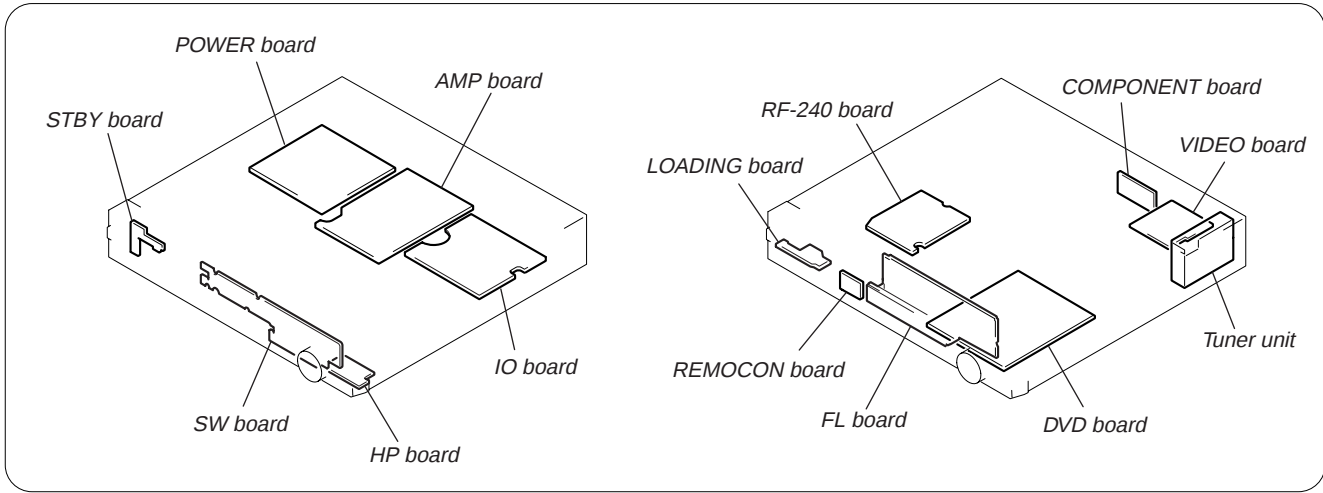
SECTION 5
DIAGRAMS

• Circuit Boards Location

(AEP,UK models)



(MY,SP models)



THIS NOTE IS COMMON FOR PRINTED WIRING
BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed
in each block.)

For schematic diagrams.

Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- $\square$: panel designation.

Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- — : B+ Line.
- --- : B- Line.

- $\square$: adjustment for repair.

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages and waveforms are dc with respect to ground in service mode.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- no mark : FM
- < : DVD
- Circled numbers refer to waveforms.

• Signal path.

- ➡ : FM
- ➡➡ : CD
- ➡➡➡ : DVD
- ➡➡➡➡ : VIDEO
- ➡➡➡➡➡ : Y
- ➡➡➡➡➡➡ : CHROMA
- ➡➡➡➡➡➡➡ : R-Y
- ➡➡➡➡➡➡➡➡ : G-Y
- ➡➡➡➡➡➡➡➡➡ : B-Y

• Abbreviation

- MY : Malaysia model
- SP : Singapole model

For printed wiring boards.

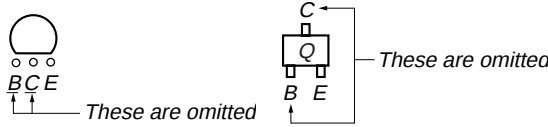
Note:

- $\circ$: parts extracted from the component side.
- $\circ$: Through hole.
- ••••• : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

Caution:

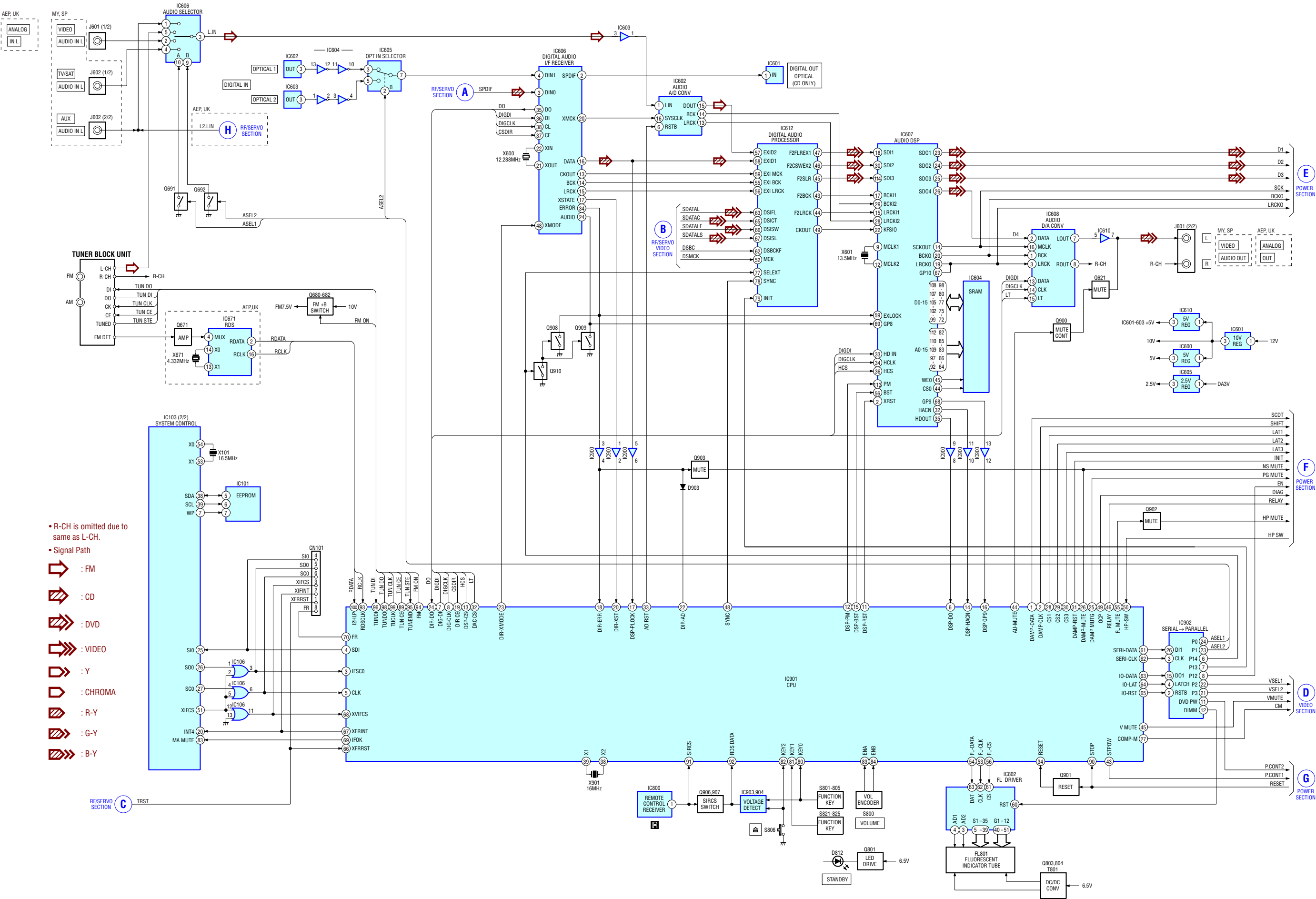
- | | |
|--------------------|--|
| Pattern face side: | Parts on the pattern face side seen from the pattern face are indicated. |
| Parts face side: | Parts on the parts face side seen from the parts face are indicated. |

• Indication of transistor



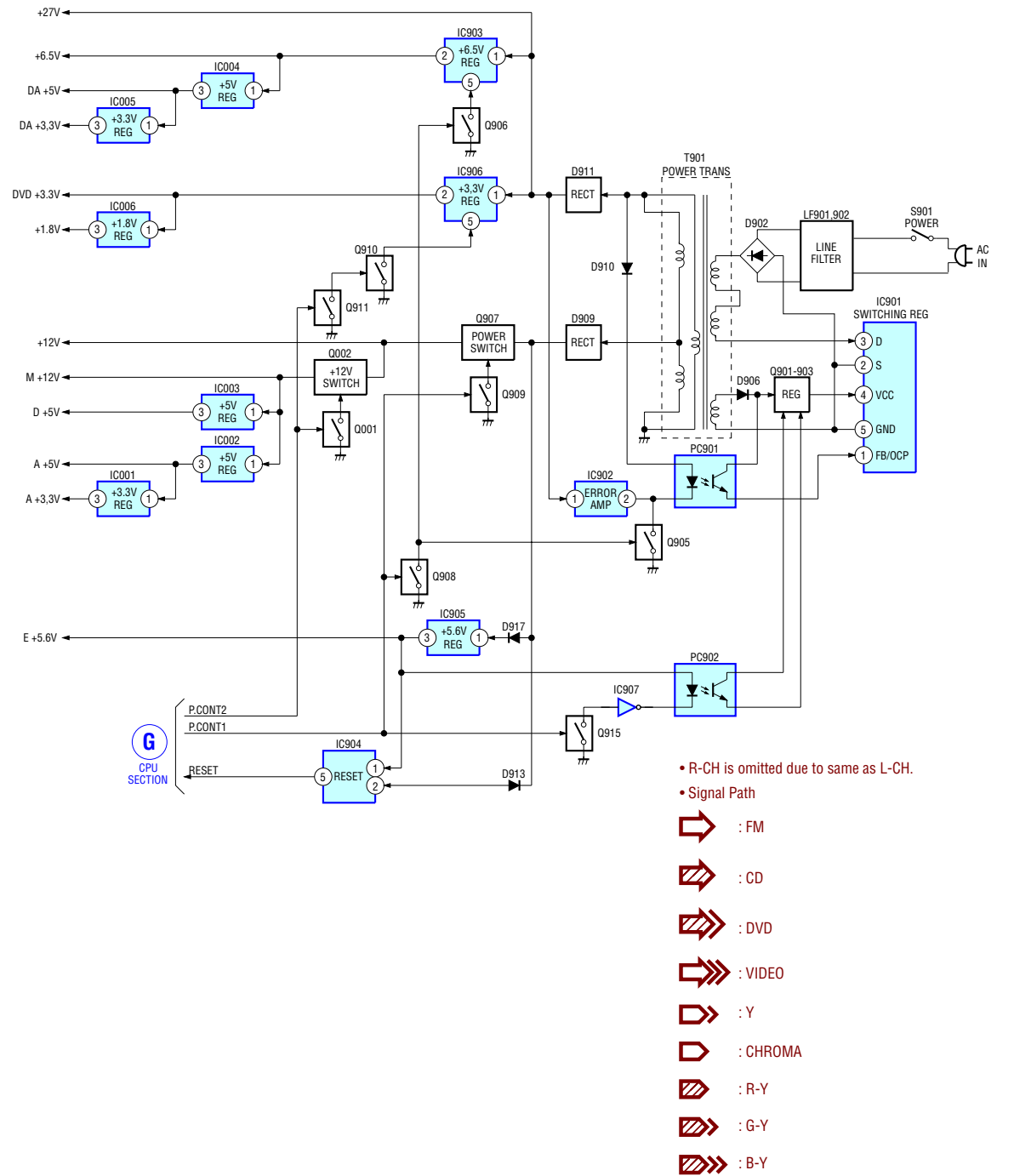
AVD-S10

5-1. Block Diagrams
- CPU Section -

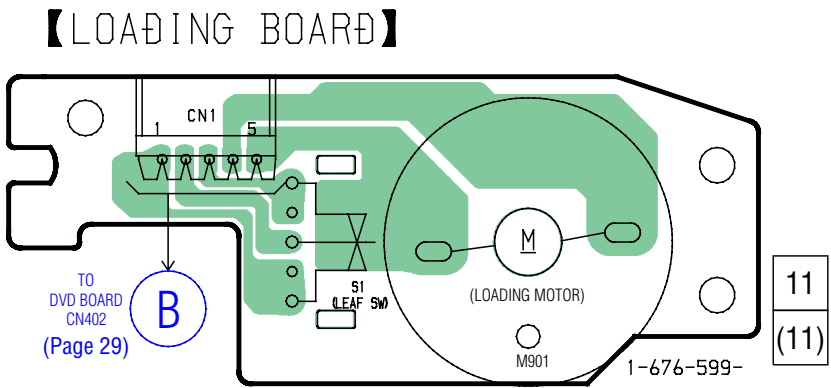
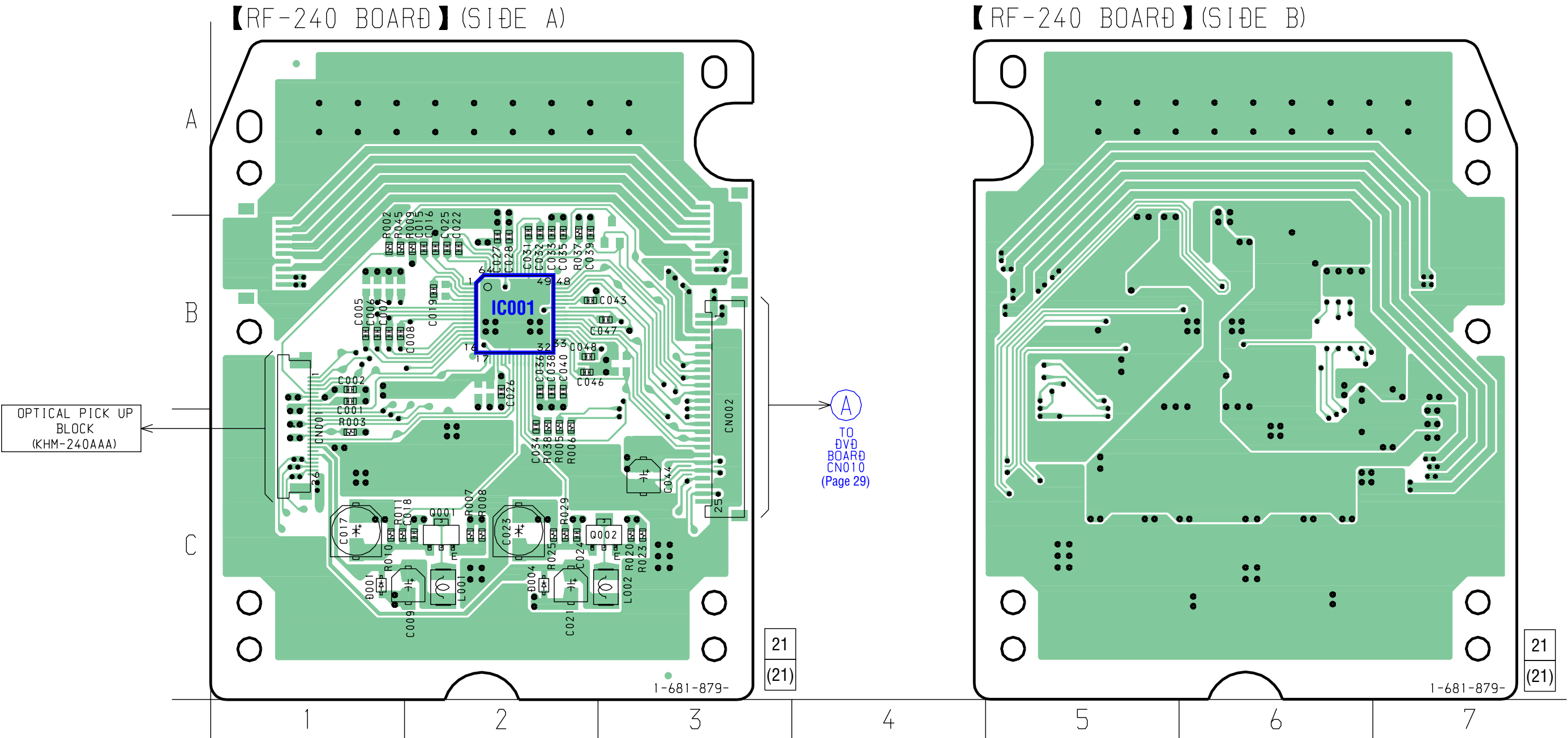




– POWER Section –



5-2. Printed Wiring Board – RF Section – • See page 23 for Circuit Boards Location.

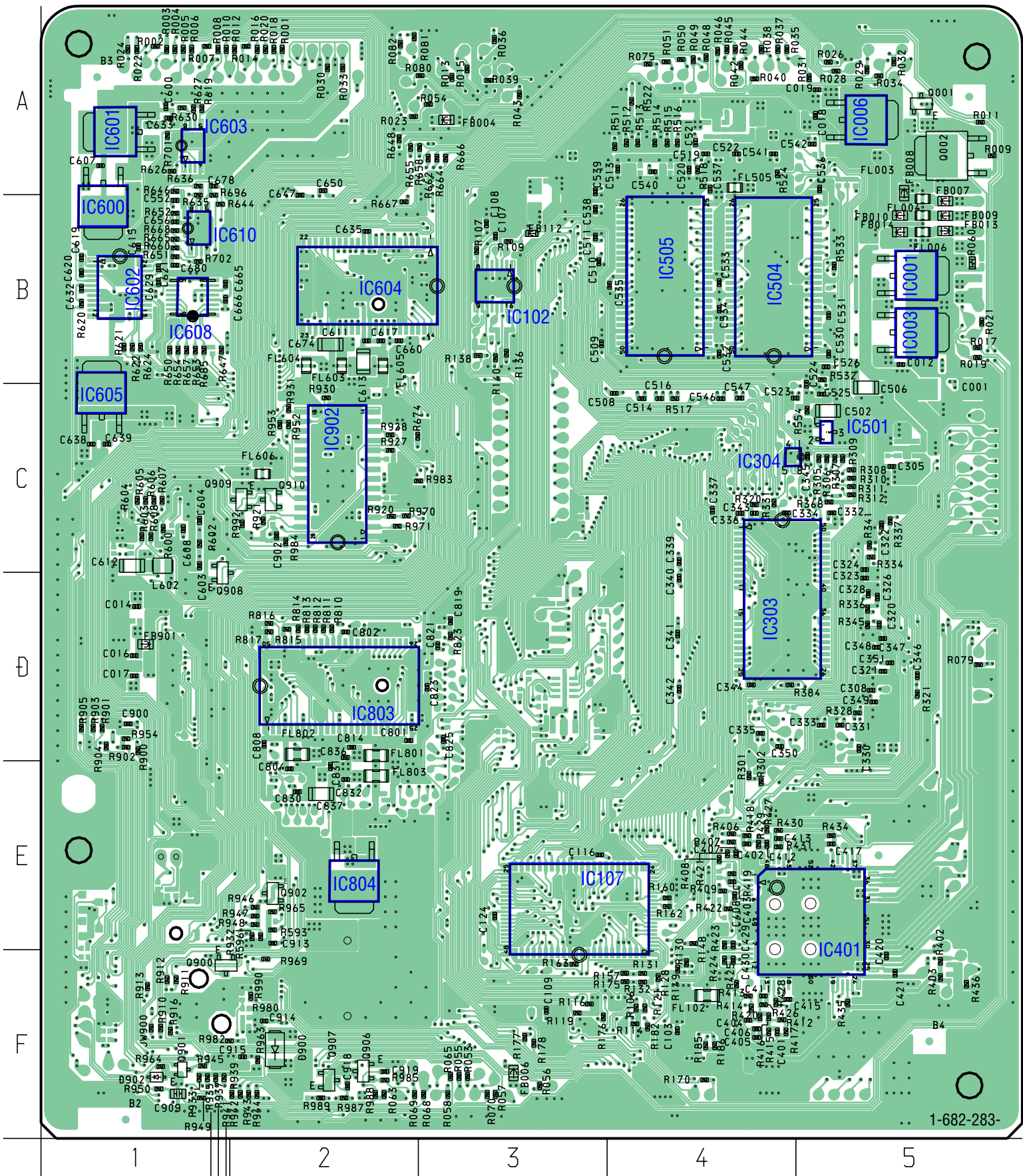






Ref. No.	Location
D901	E-5
D903	E-5
D904	F-4
IC002	B-1
IC004	D-5
IC005	D-5
IC101	F-2
IC103	E-3
IC106	F-2
IC302	D-2
IC503	B-2
IC606	C-5
IC607	B-4
IC612	C-4
IC801	D-4
IC802	D-5
IC900	D-5
IC901	F-5
IC903	F-4
IC904	F-4
Q903	E-5

【 DVD BOARD 】 (SIDE B)

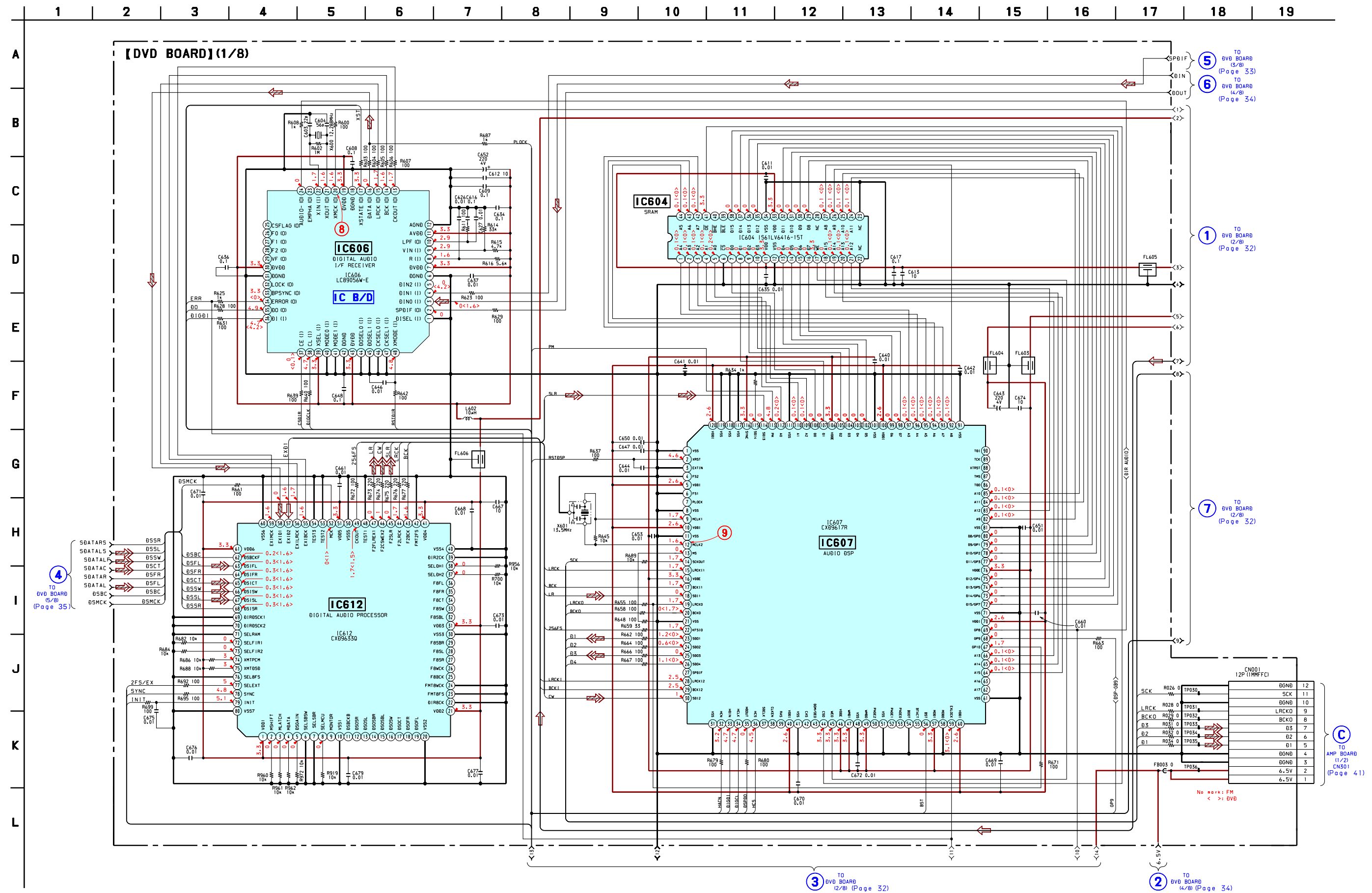


• Semiconductor Location

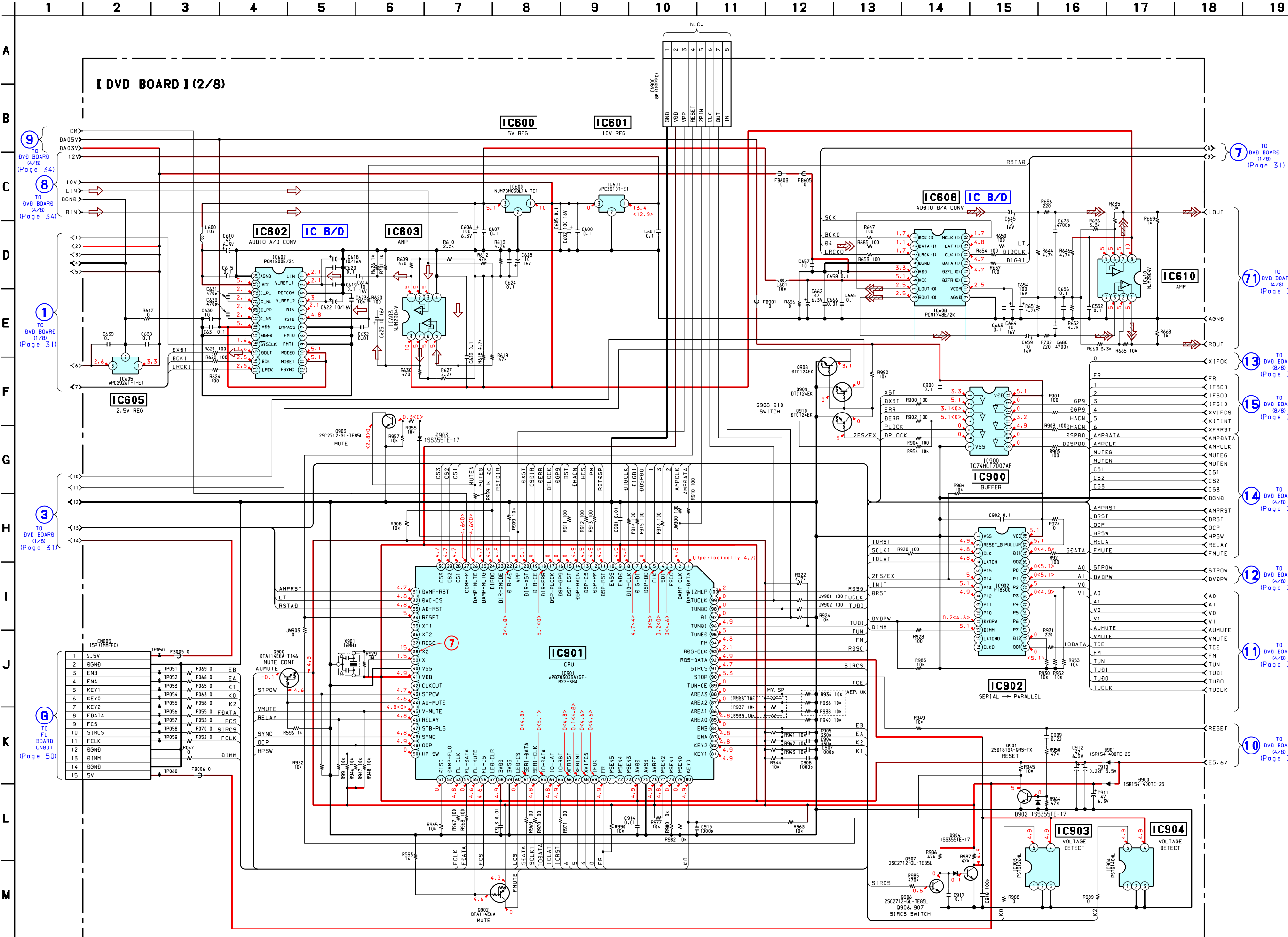
Ref. No.	Location
D900	F-2
D902	F-1
IC001	B-5
IC003	B-5
IC006	A-5
IC102	B-3
IC107	E-3
IC303	D-4
IC304	C-4
IC401	E-5
IC501	C-5
IC504	B-4
IC505	B-4
IC600	B-1
IC601	A-1
IC602	B-1
IC603	A-1
IC604	B-2
IC605	C-1
IC608	B-1
IC610	B-1
IC803	D-2
IC804	E-2
IC902	C-2
Q001	A-5
Q002	A-5
Q900	F-1
Q901	F-1
Q902	E-2
Q906	F-2
Q907	F-2
Q908	D-1
Q909	C-2
Q910	C-2

R935, 941 (MY, SP ONLY)
R937 (AEP, UK ONLY)

5-6. Schematic Diagram – DVD Section (1/8) – • See page 55 for IC Block Diagrams. • See page 53 for Waveforms.

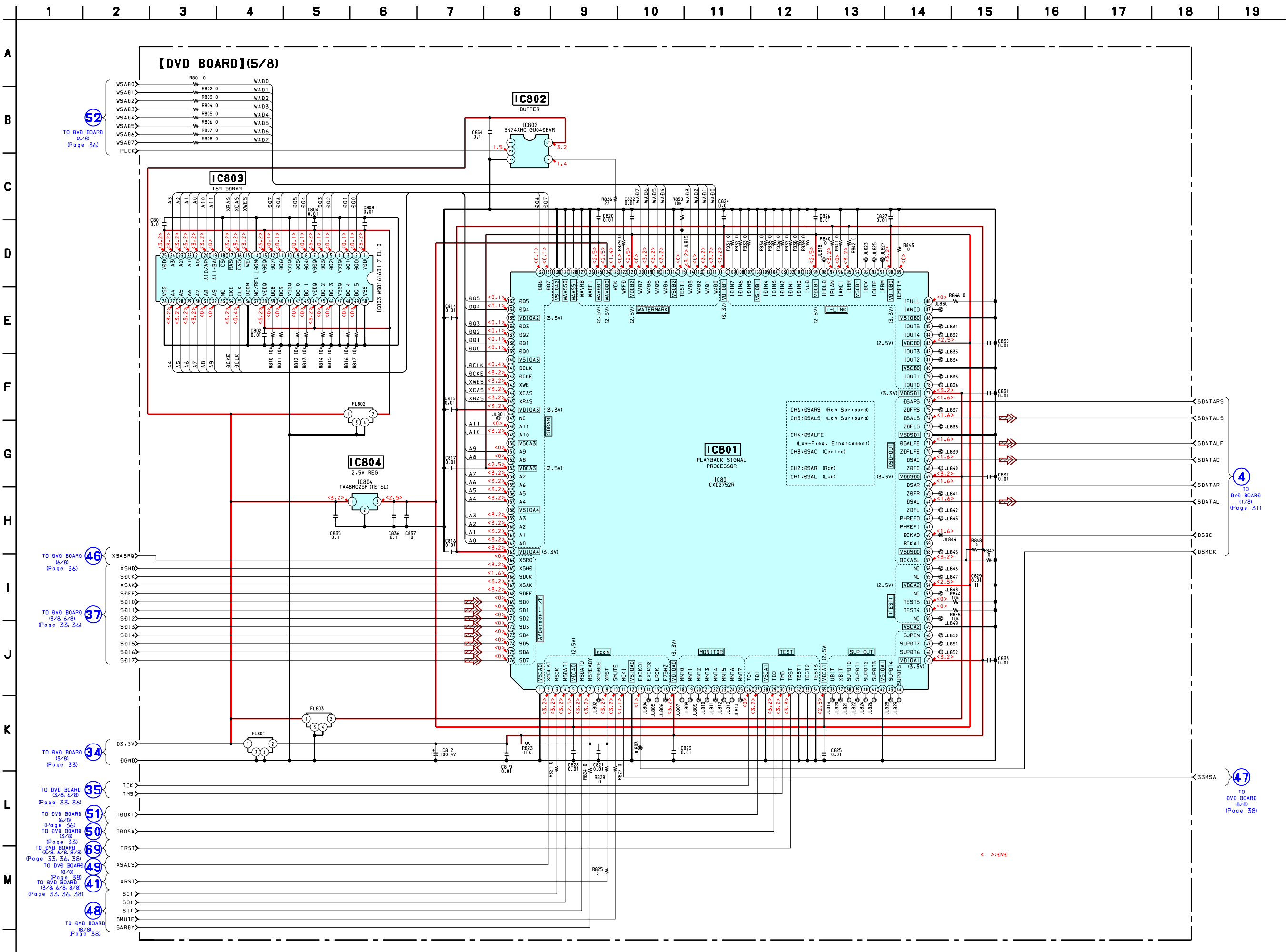


5-7. Schematic Diagram – DVD Section (2/8) – • See page 55, 56 for IC Block Diagrams. • See page 53 for Waveforms.



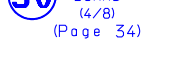


5-10. Schematic Diagram – DVD Section (5/8) – • See page 66 for IC Pin Function Descriptions.



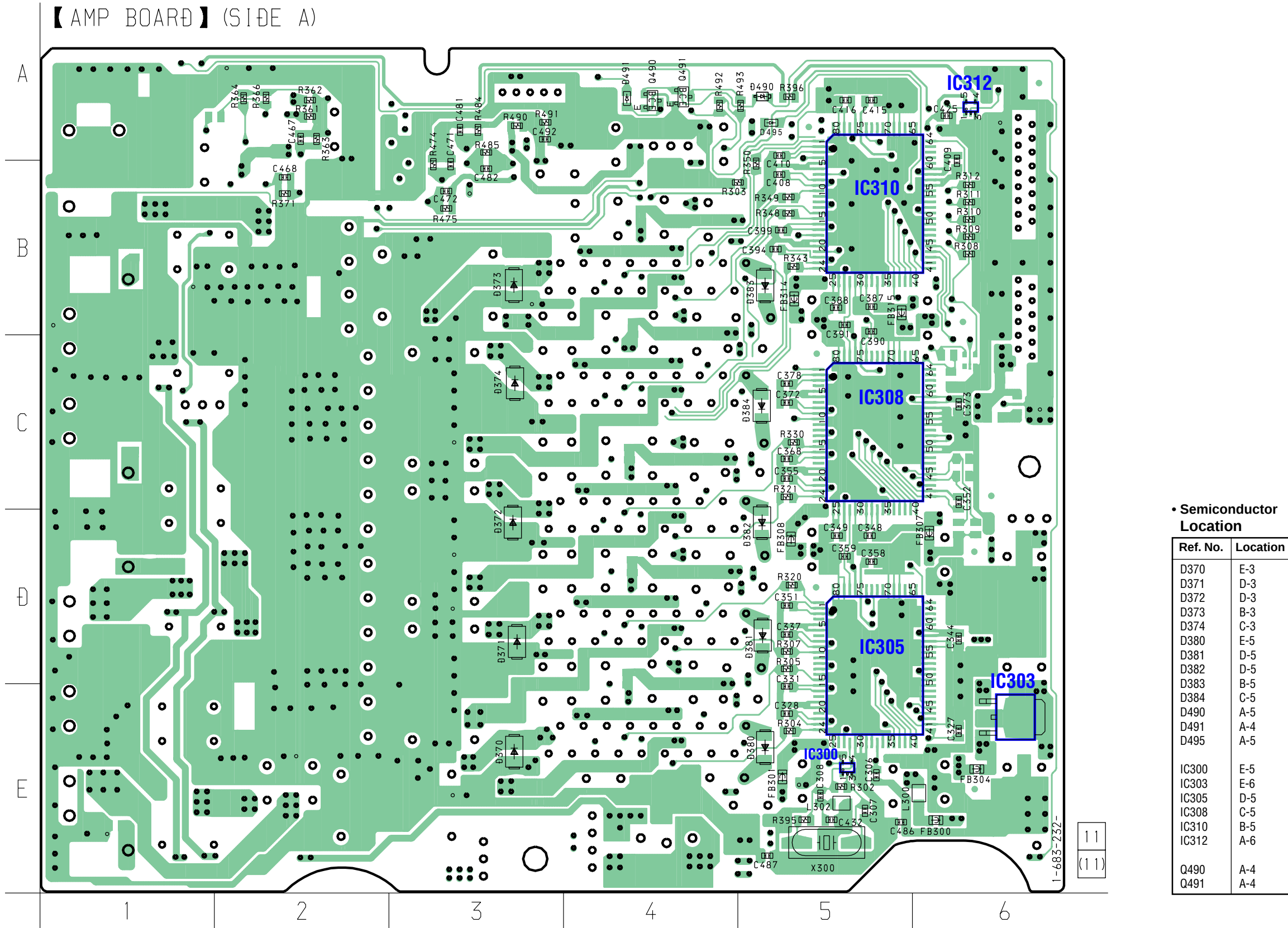


25
TO DVD
BOARD
(4/8)
(Page 34)

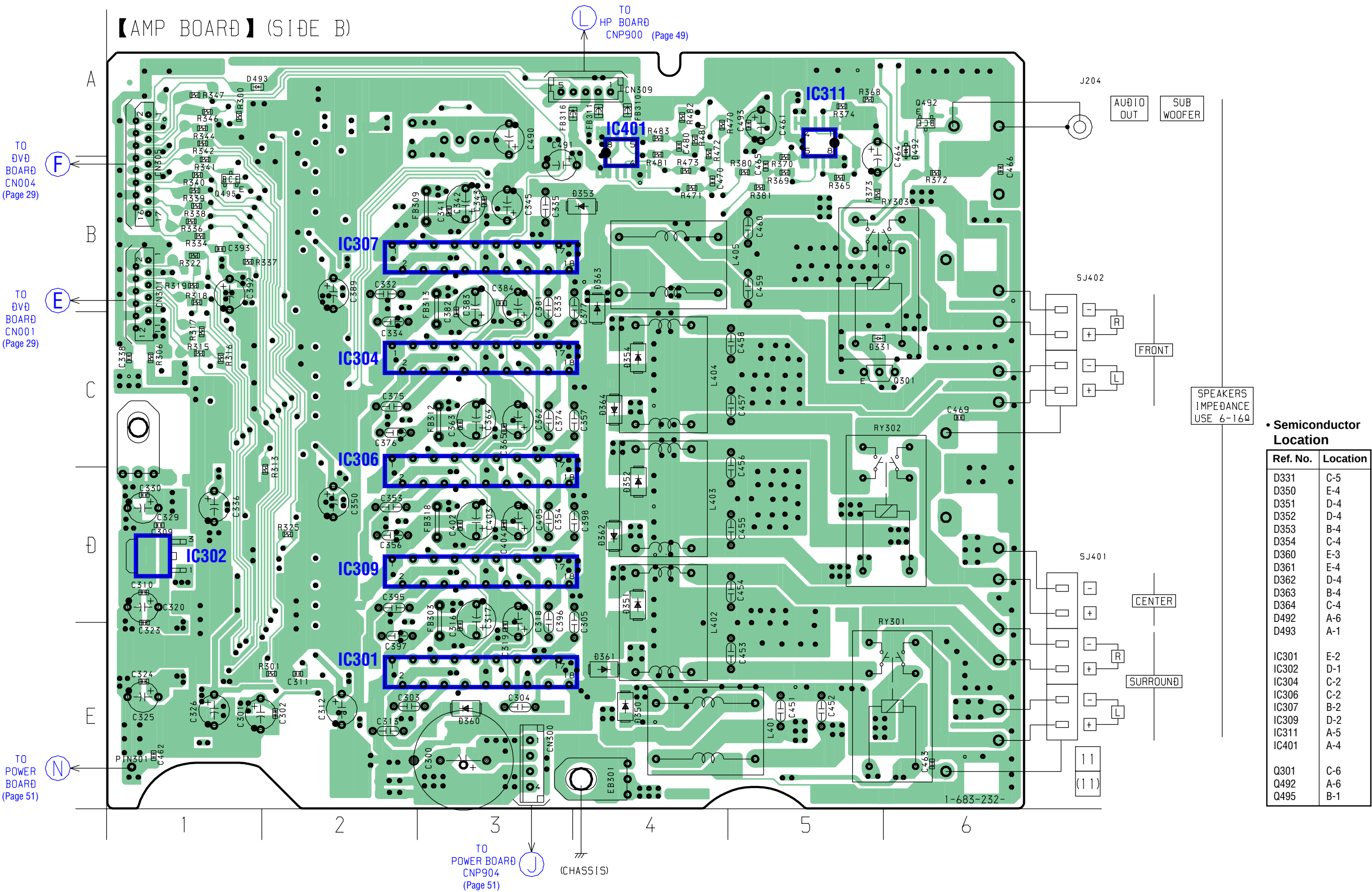




5-14. Printed Wiring Board – AMP Section (Side A) – • See page 23 for Circuit Boards Location.



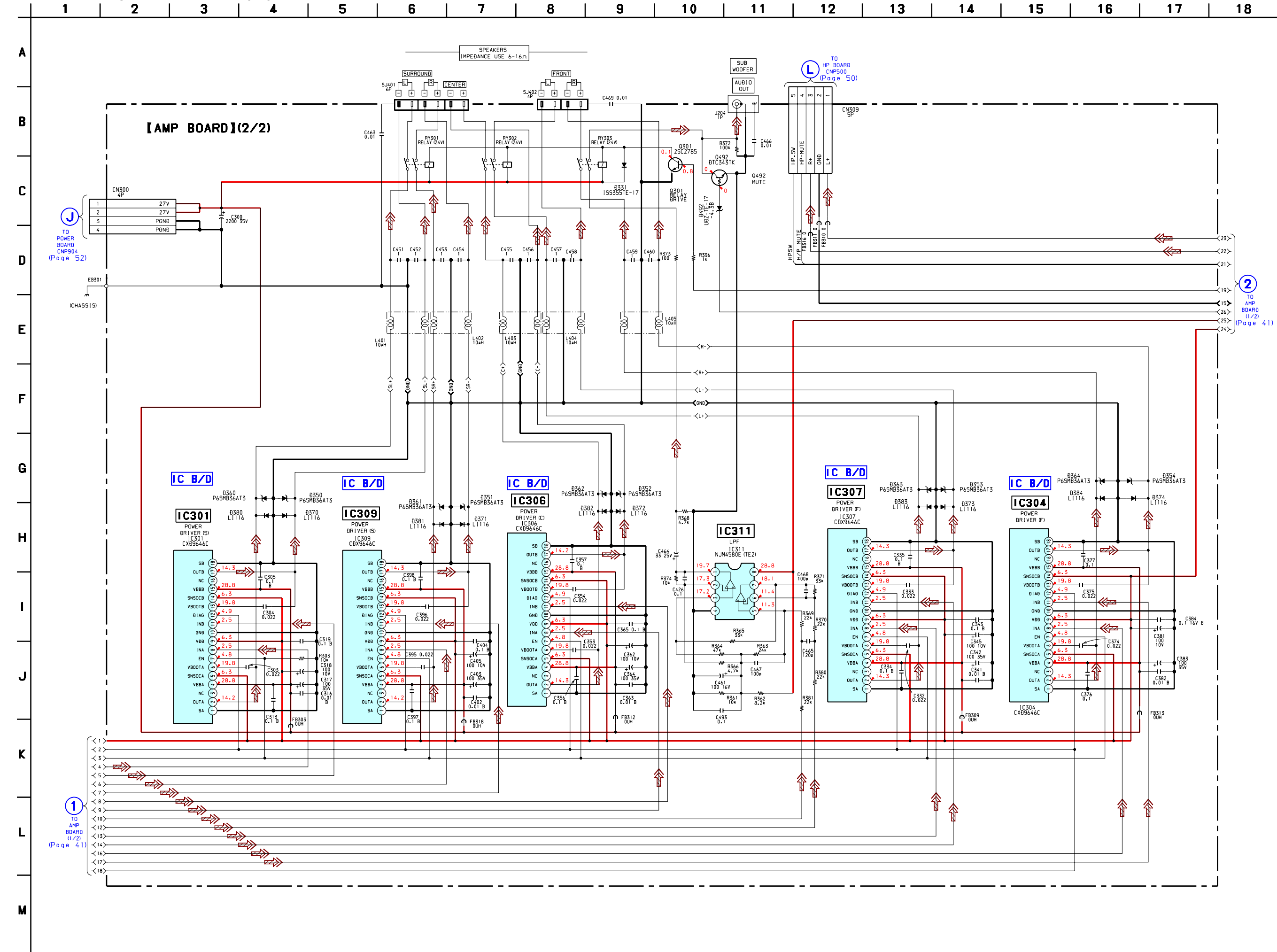
5-15. Printed Wiring Board – AMP Section (Side B) – • See page 23 for Circuit Boards Location.

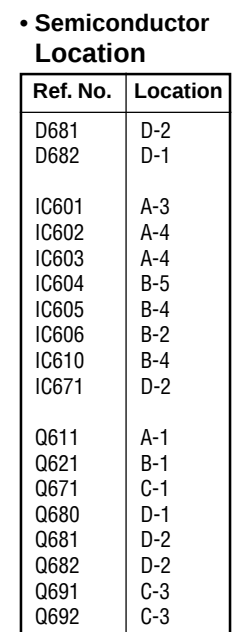


2
TO
AMP
BOARD (2/2)
(Page 42)



5-17. Schematic Diagram – AMP Section (2/2) – • See page 56 for IC Block Diagrams.



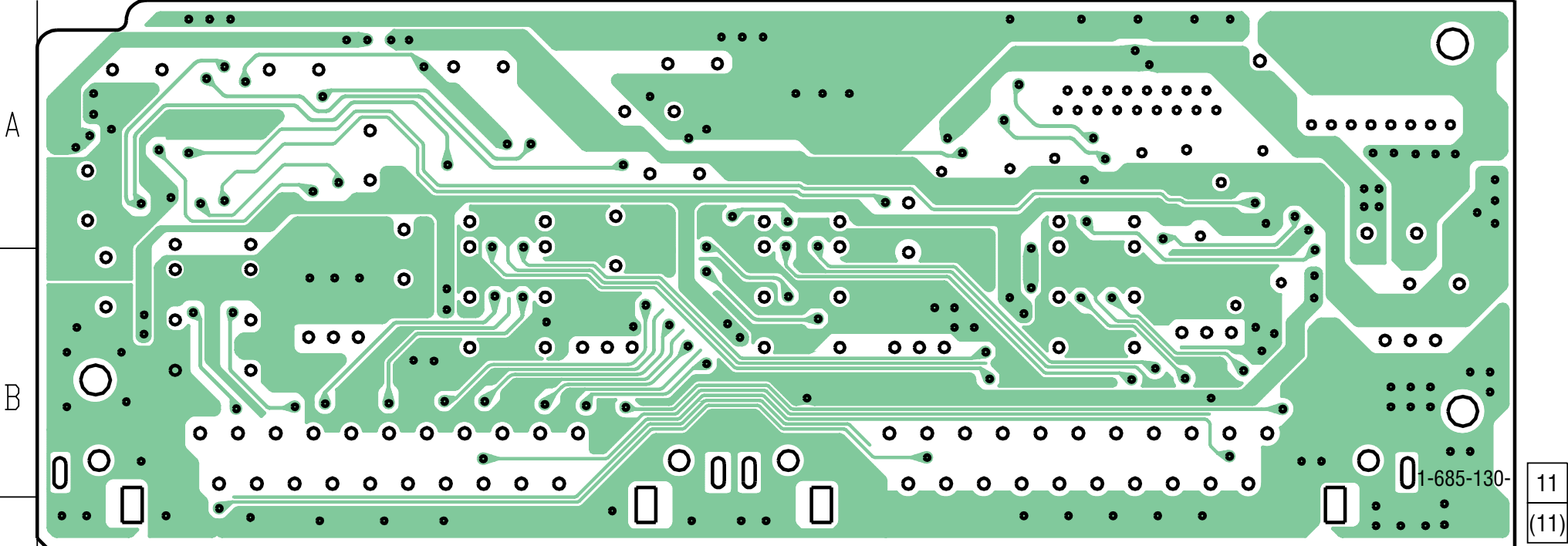




5-20. Printed Wiring Board – SCART Section – • See page 23 for Circuit Boards Location.

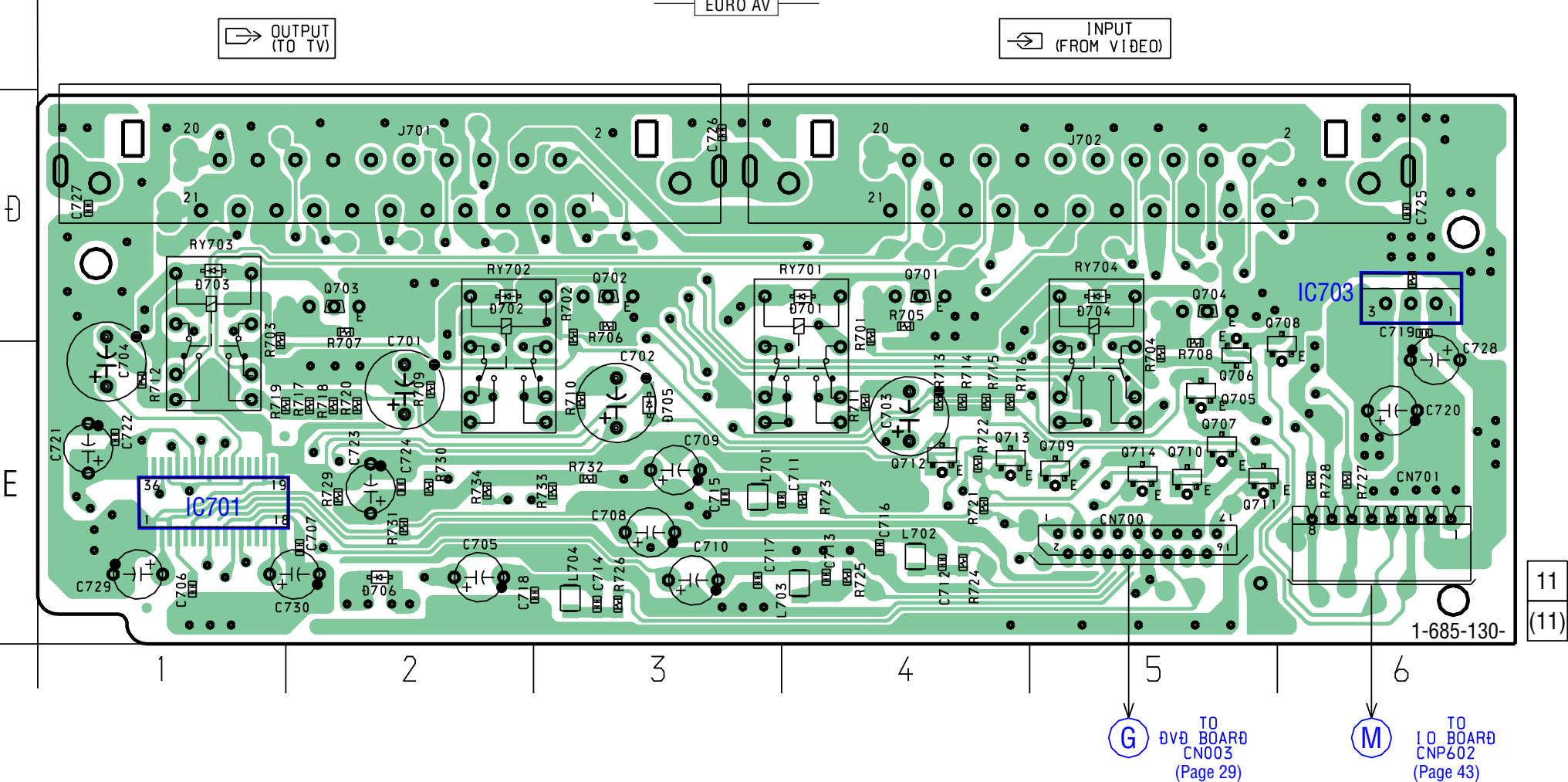
AEP,UK

【 SCART BOARD】 (SIDE A)



11
(11)

【 SCART BOARD】 (SIDE B)



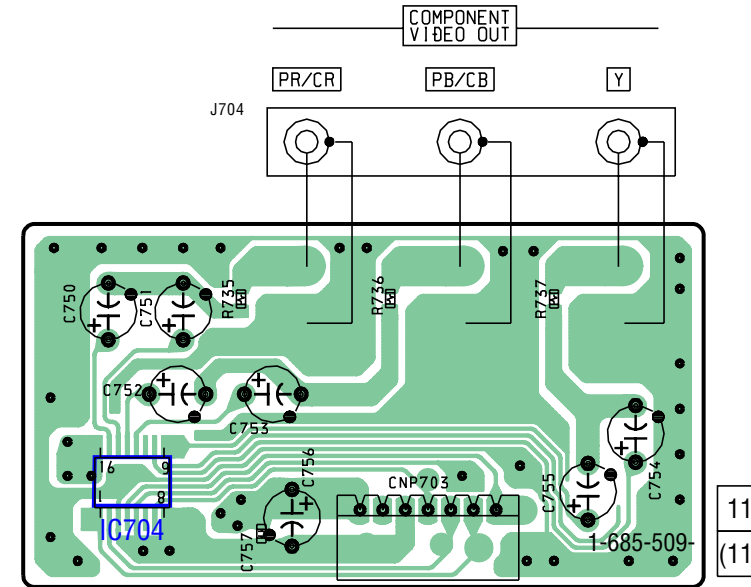
11
(11)

• Semiconductor Location

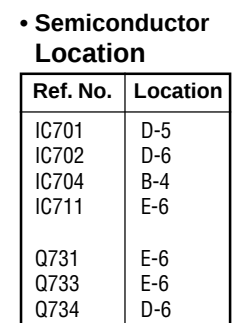
Ref. No.	Location
D701	D-4
D702	D-2
D703	D-1
D704	D-5
D705	E-3
D706	E-2
IC701	E-1
IC703	D-6
Q701	D-4
Q702	D-3
Q703	D-2
Q704	D-5
Q705	E-5
Q706	E-5
Q707	E-5
Q708	D-5
Q709	E-5
Q710	E-5
Q711	E-5
Q712	E-4
Q713	E-4
Q714	E-5



【COMPONENT BOARD】(SIDE B)

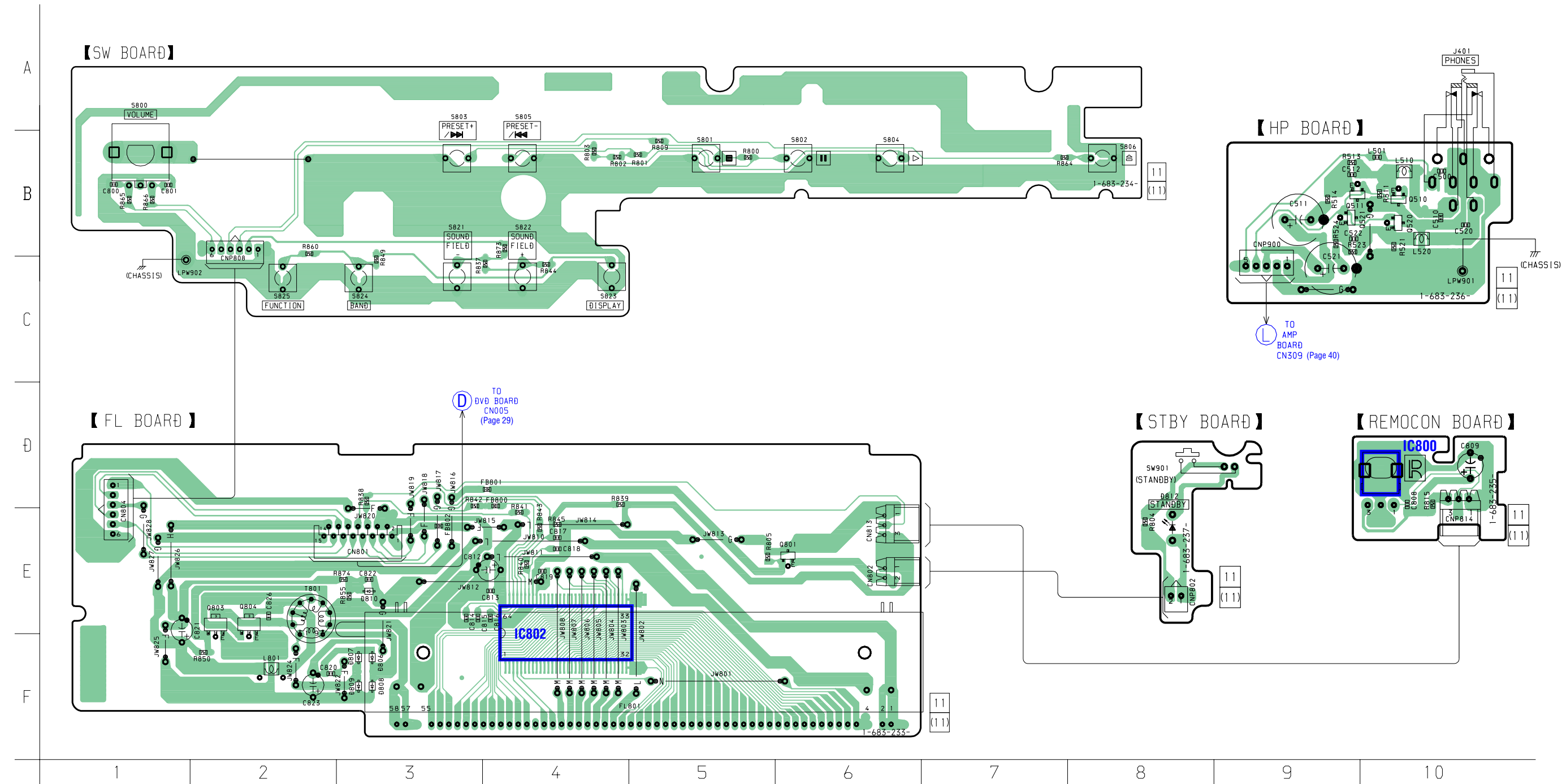


【 VIDEO BOARD 】 (SIDE A)





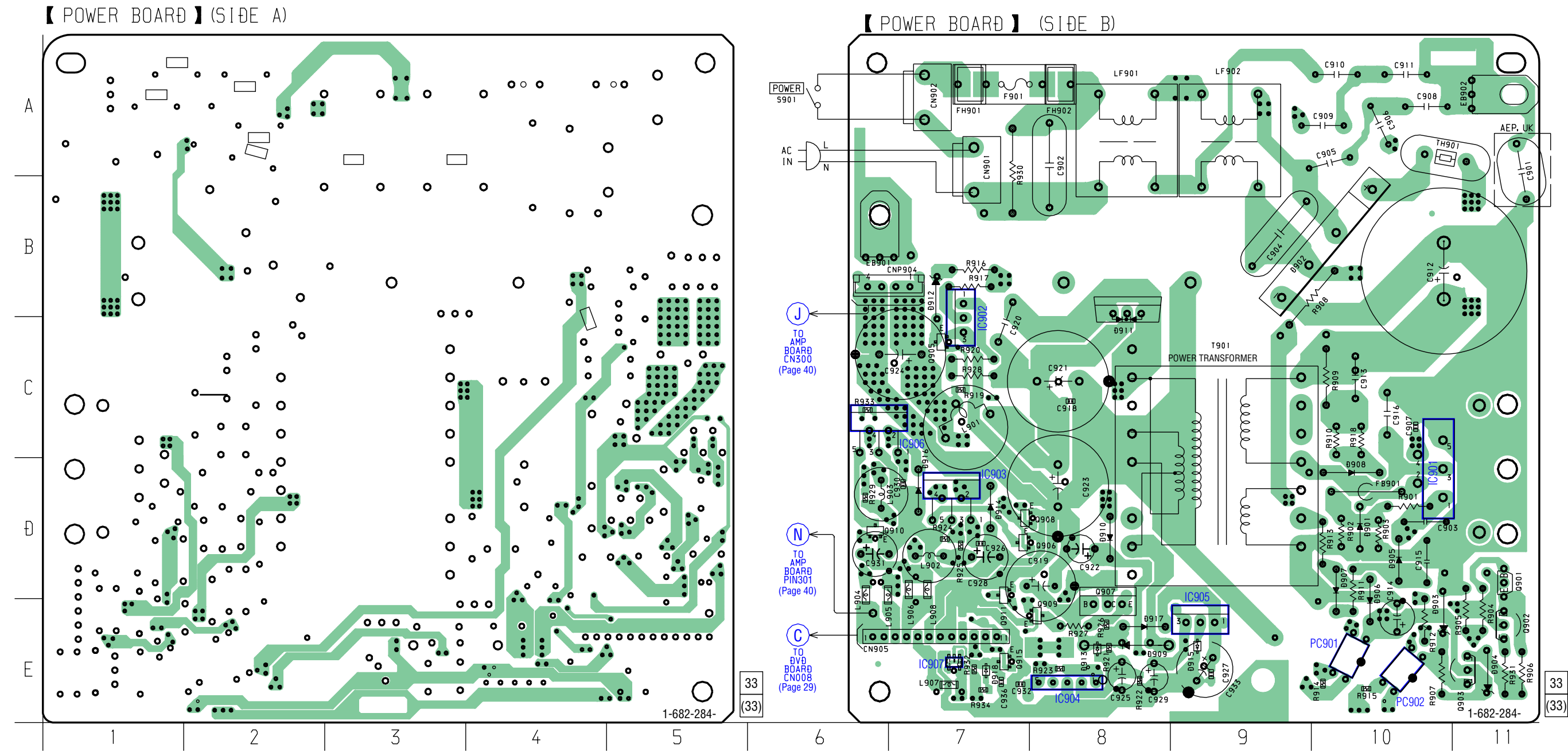
5-24. Printed Wiring Board – PANEL Section – • See page 23 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D806	F-3
D807	F-3
D808	F-3
D809	F-3
D810	E-3
IC802	E-4
Q801	E-6
Q803	E-2
Q804	E-2

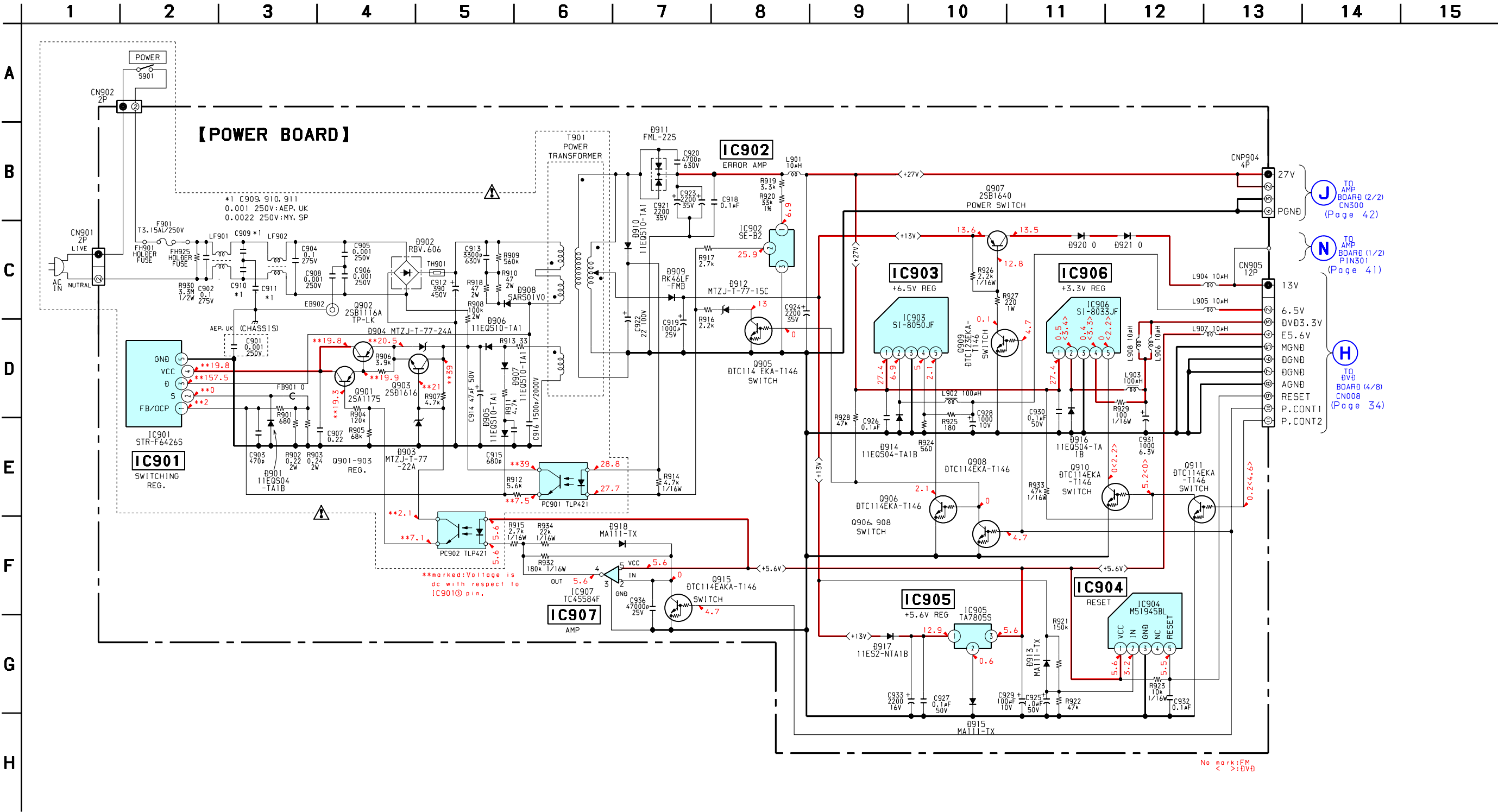




• Semiconductor Location

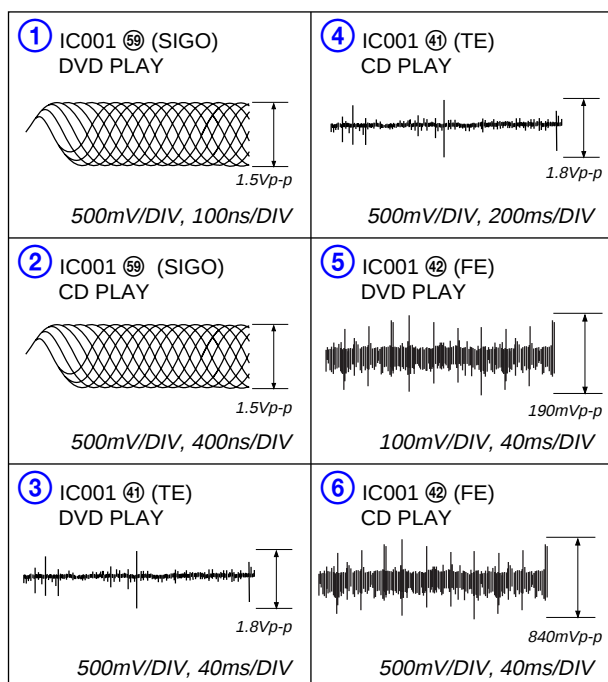
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D901	D-10	D912	B-6	IC901	D-10	Q901	D-11
D902	B-9	D913	E-8	IC902	C-7	Q902	E-11
D903	D-10	D914	D-7	IC903	D-7	Q903	E-11
D904	E-11	D915	E-9	IC904	E-8	Q905	C-7
D905	D-10	D916	D-7	IC905	D-9	Q906	D-8
D906	D-10	D917	E-8	IC906	C-7	Q907	D-8
D907	D-10	D918	E-7	IC907	E-7	Q908	D-8
D908	D-10					Q909	D-8
D909	E-8			PC901	E-10	Q910	D-6
D910	D-8			PC902	E-10	Q911	D-7
D911	C-8					Q915	E-7

5-27. Schematic Diagram – POWER Section –

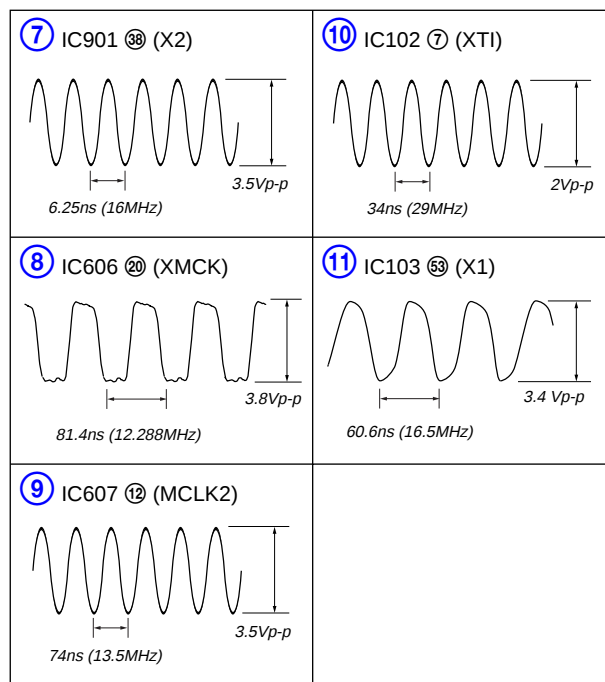


• Waveforms

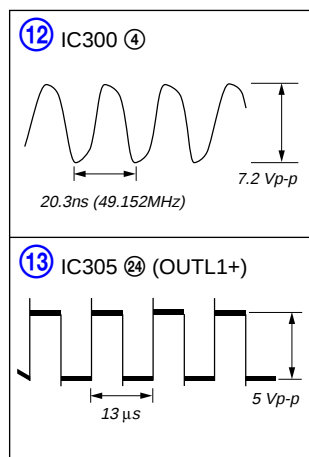
– RF-240 Board –



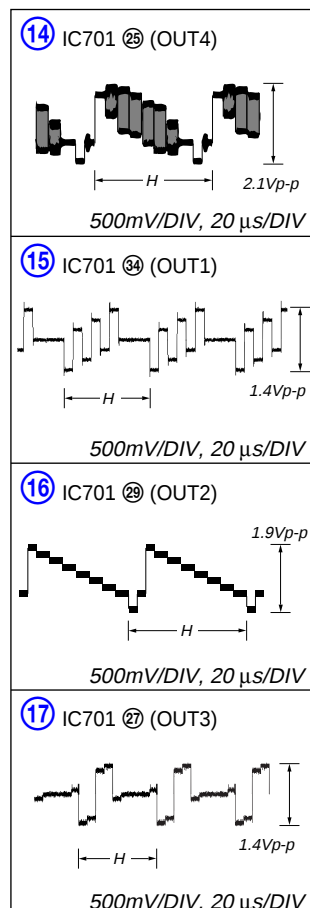
– DVD Board –



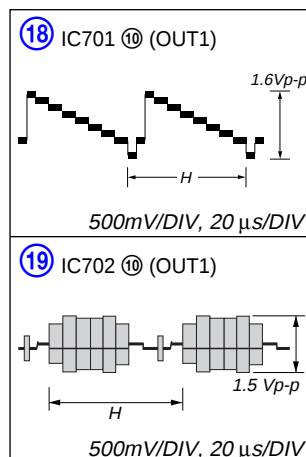
– AMP Board –



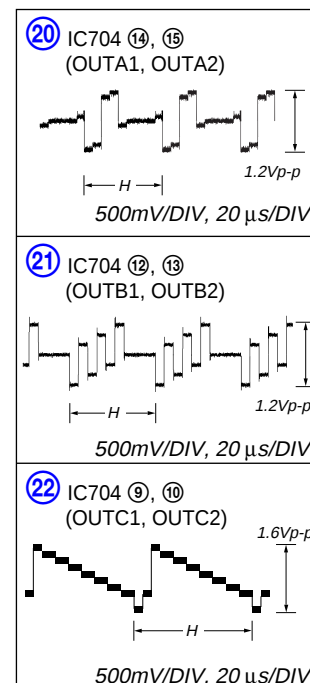
– SCART Board – (AEP,UK)
Test Mode (Video)



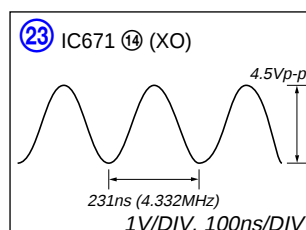
– VIDEO Board – (MY,SP)
Test Mode (Video)



– COMPONENT Board –
Test Mode (Video)

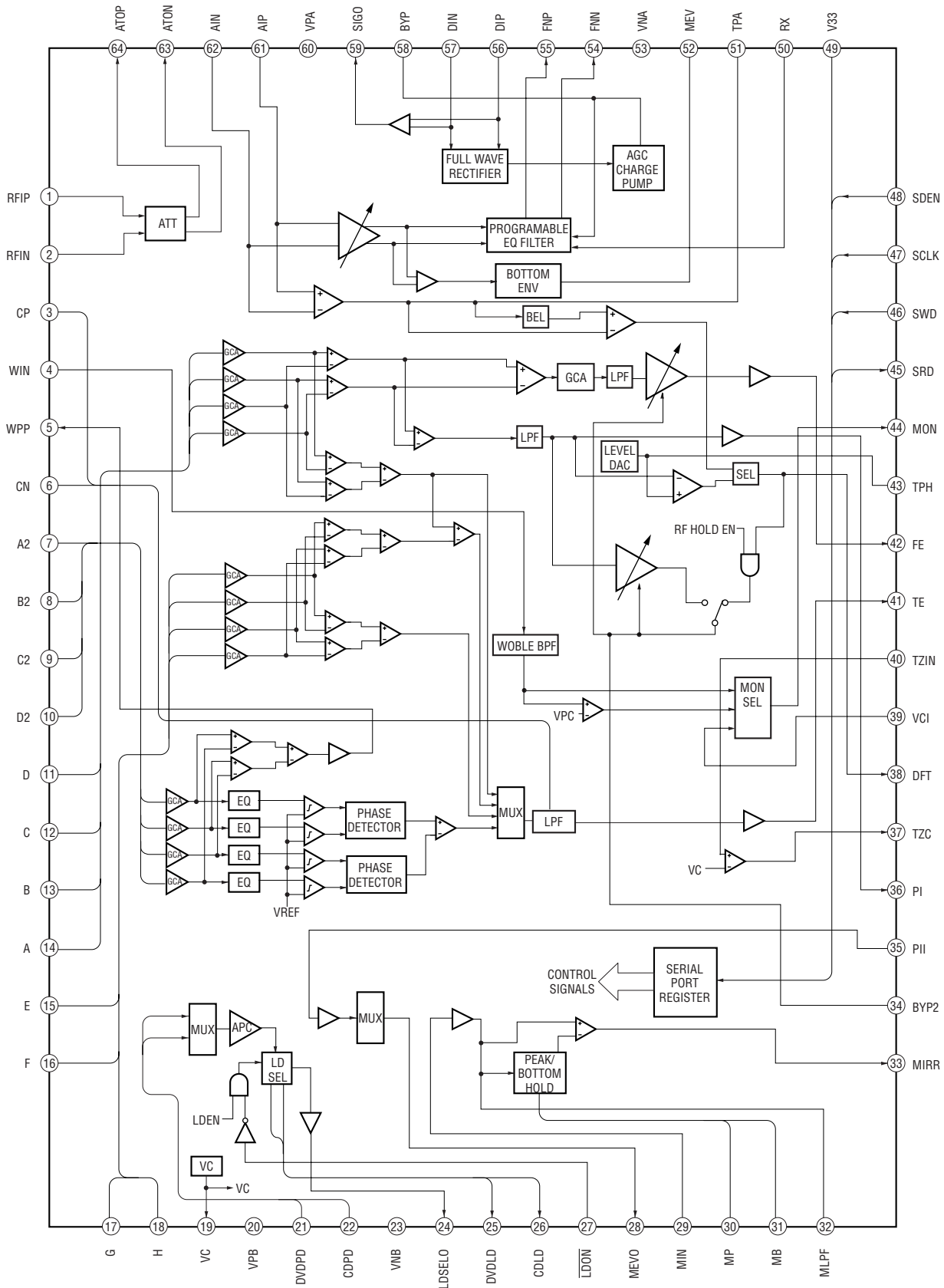


– IO Board –

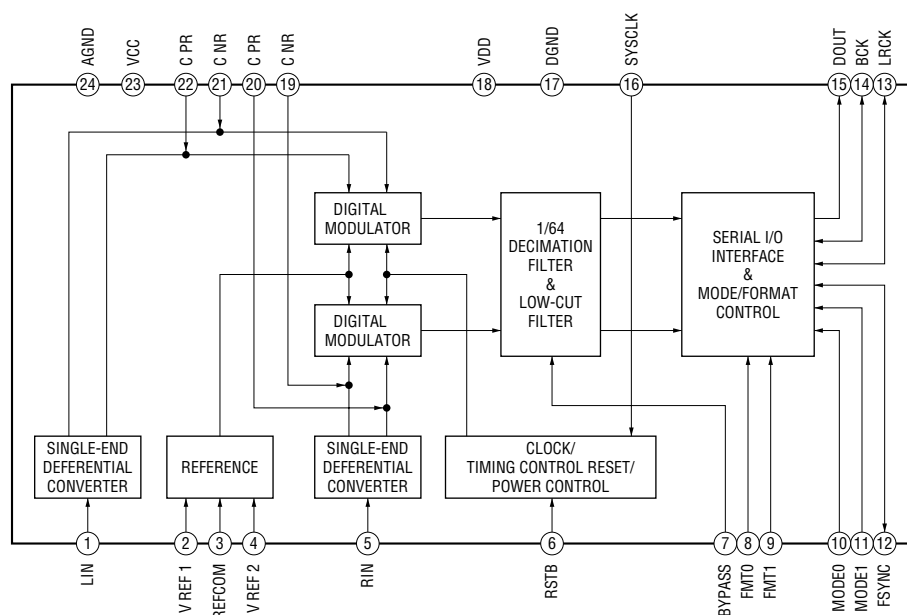


• IC Block Diagrams

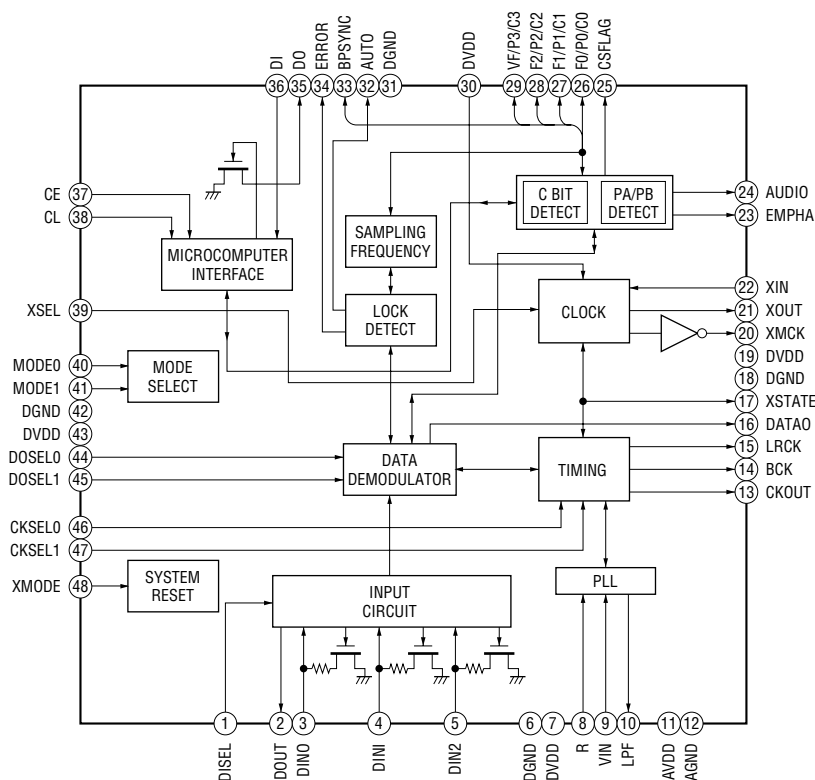
IC001 SP3728AC (RF-240 Board)



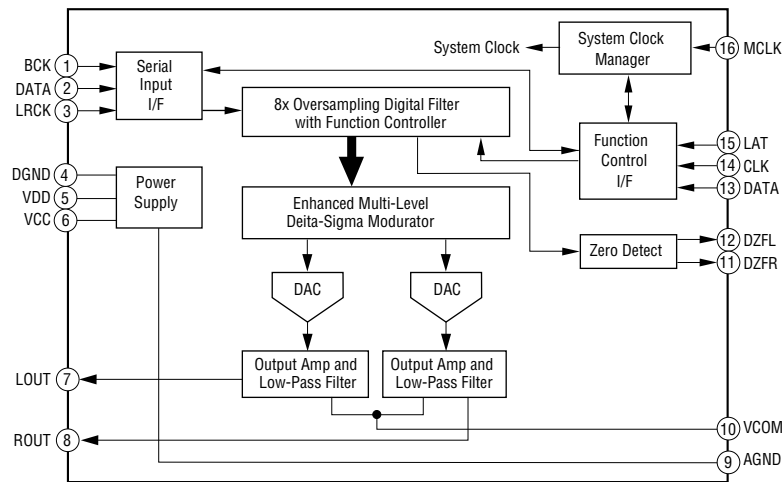
IC602 PCM1800E/2K (DVD Board)



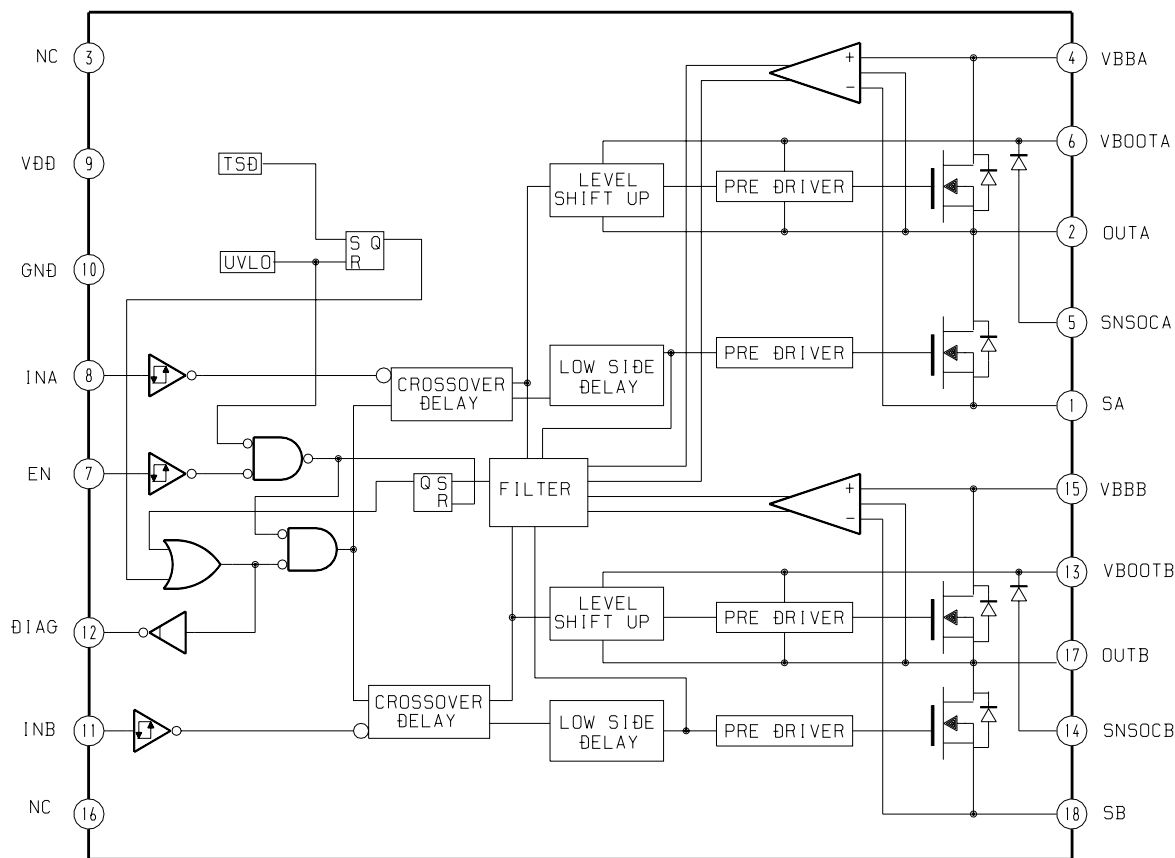
IC606 LC89056W-E (DVD Board)



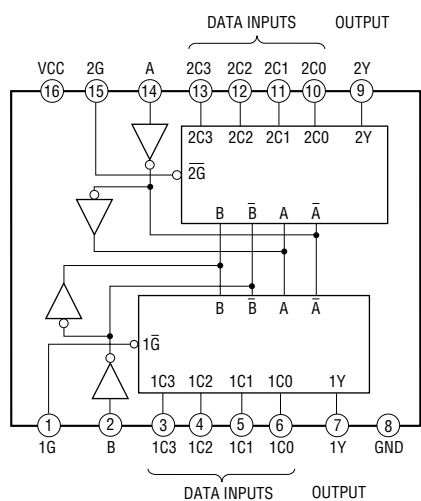
IC608 PCM1748E/2K (DVD Board)



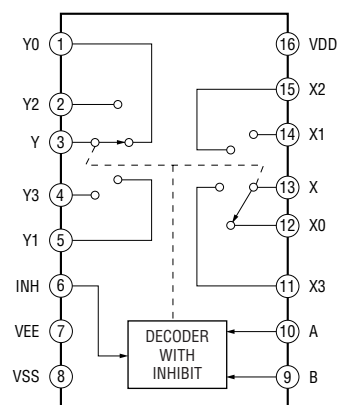
IC301, 304, 306, 307, 309 CXD9646C (AMP Board)



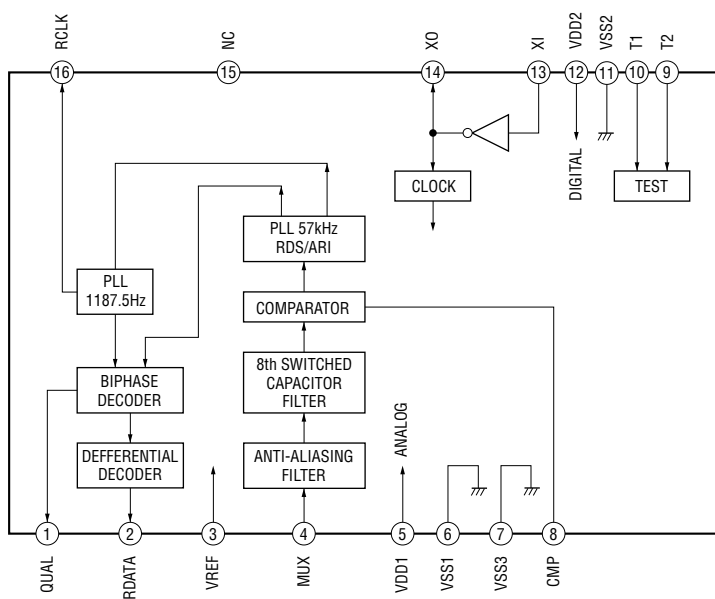
IC605 SN74HC153ANS (IO Board)



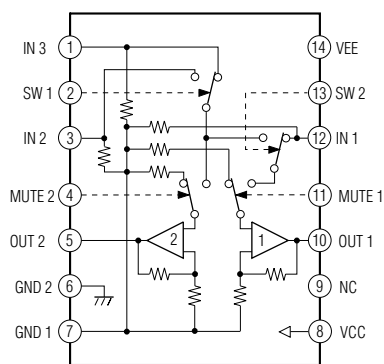
IC606 MC14052BDR2 (IO Board)



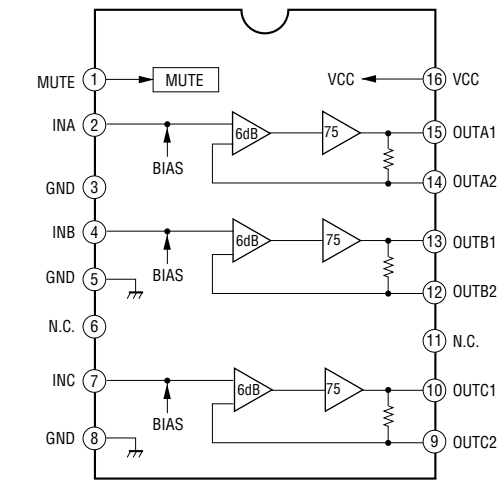
IC671 BU1924F-E2 (IO Board)



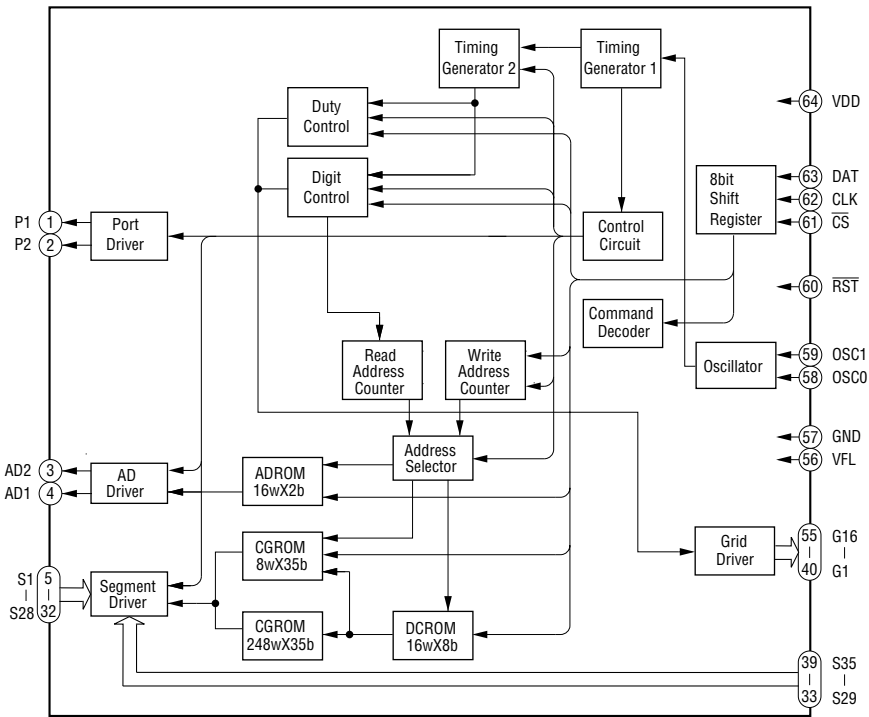
IC701, 702
NJM2279M-TE2 (VIDEO Board)



IC704 BA7660FS-E2 (COMPONENT Board)



IC802 MSM9202-05GS-KDR1 (FL Board)



5-28. IC Pin Function Descriptions**• IC103 MB91307APFV-G-BND-E1 (System Control) (DVD Board)**

Pin No.	Pin Name	I/O	Description
1 to 5	HA17 - 21	O	Address signal output
6	HA22	O	Address signal output (not used)
7	WP	O	I2C EEPROM write protect signal output
8	TRM/XKRCS	O	Chip select signal output to IC801(CXD2752R)
9	AVCC	–	Analog power supply
10	AVRH	–	A/D converter reference voltage supply
11	AVSS	–	Analog ground
12	AN0	I	Region setting input
13	AN1	I	Model setting input
14	AN2	I	Destination setting input
15	AN3	I	Not used (pull-up)
16	INT0	I	Interrupt signal input from IC503(AV Decoder)
17	INT1	I	Interrupt signal input from IC302(CXD9635R/ARP)
18	INT2	I	Interrupt signal input from IC302(CXD9635R/SDSP)
19	INT3	I	FGA interrupt signal input
20	INT4	I	Interrupt signal input from IC901(CPU)
21	INT5	I	Interrupt signal input from IC801(CXD2752R)
22	INT6	O	Soft mute control signal output to IC801(CXD2752R)
23	INT7	–	Not used
24	VCC	–	Power supply
25	SI0	I	Serial data input from IC901(CPU)
26	SO0	O	Serial data output to IC901(CPU)
27	SC0	O	Serial clock output to IC901(CPU)
28	SI1	I	Serial data input from IC801(CXD2752R)
29	SO1	O	Serial data output to IC801(CXD2752R)
30	SC1	O	Serial clock output to IC801(CXD2752R)
31	SI2	I	RS-232C data input for debugging
32	SO2	O	RS-232C data output for debugging
33	SC2	O	RS-232C clock input or output for debugging
34	VSS	–	Ground
35	XRST	O	System reset signal output
36	XARPRST	O	Reset signal output to IC302(CXD9635R/ARP)
37	RGBSEL/MICMUTE	–	Not used
38	SDA	I/O	I2C data input or output
39	SCL	O	I2C clock output
40	TRM+/XKRRST	O	Data request selection signal output (DVD : L, SACD : H)
41	EUROV/Y/CLPSW1	–	Not used
42	DISCEXT/CLPSW0	–	Not used
43	MD0	–	Operation mode setting (connected to Vcc)
44	MD1	–	Operation mode setting (connected to Ground)
45	MD2	–	Operation mode setting (connected to Ground)
46	DREQ0	I	DMA-REQ1 signal input
47	DACK0	O	DMA-ACK1 signal output
48	XDRVMUTE	O	Drive mute control signal output to IC401
49	DREQ1	I	DMA-REQ0 signal input
50	DACK1	O	DMA-ACK0 signal output
51	XIFCS	O	Chip select signal output to IC901(CPU)
52	VSS	–	Ground
53	X1	–	Clock (oscillator) output
54	X0	–	Clock (oscillator) input

Pin No.	Pin Name	I/O	Description
55	VCC	–	Power supply
56	CKSW1	I	Chucking switch (Tray SW1) signal input
57	OCSW1	I	Open/Close switch (Tray SW2) signal input
58	CS0X	O	Chip select signal output to external ROM
59	CS1X	–	Not used
60	CS2X	O	Chip select signal output to AVD SDRAM
61	CS3X	O	Chip select signal output to AVD R-BUS
62	CS4X	O	Chip select signal output to IC302(CXD8635R/ARP)
63	CS5X	O	Chip select signal output to IC302(CXD8635R/SDSP)
64	C	–	Terminal for built-in regulator bypass capacitor
65	CS6X	O	FGA CS output
66	CS7X	–	Not used
67	XWAIT	I	external WAIT signal input
68	BGRNTX	I	External bus open acknowledge signal input (pull-up)
69	BRQ	I	External bus open request signal input
70	XRD	O	External bus read enable signal output
71	XWRH	O	Write signal output for upper byte
72	XWRL	O	Write signal output for lower byte
73	XMIX	–	Not used
74	HSTX	–	Not used (pull-up)
75	VSS	–	Ground
76	XFRRST	I	Reset signal input
77	CPUCK	O	CPU clock output
78	OCSW2	I	Tray switch signal input
79	XDACK	–	Not used (pull-up)
80	VESCS/X39CS	–	Not used (pull-up)
81	48/44.1K	O	PLL IC control signal output
82	WIDE	O	Video wide offset control signal output
83	MAMUTE	I	IFOK signal input from IC901(CPU)
84	XLDON	O	Laser diode mute control signal output
85 to 100	HD0 -15	I/O	External data bus bits 0 - 15
101	VSS	–	Ground
102 to 109	HA0 - 7	O	Address signal output
110	VCC	–	Power supply
111 to 118	HA8 - 15	O	Address signal output
119	VSS	–	Ground
120	HA16	O	Address signal output

• IC302 CXD9635R (Servo DSP) (DVD Board)

Pin No.	Pin Name	I/O	Description
1	VSS	–	Digital Ground
2	D0	I/O	CPU data
3	D1	I/O	
4	D2	I/O	
5	D3	I/O	
6	D4	I/O	
7	D5	I/O	
8	D6	I/O	
9	D7	I/O	
10	VDD 3.3V	–	Digital power supply 3.3V
11	A0	I	CPU address
12	A1	I	
13	A2	I	
14	A3	I	
15	A4	I	
16	VDD	–	Digital Ground
17	A5	I	CPU address
18	A6	I	
19	A7	I	
20	VDD 1.8V	–	Digital power supply 1.8V
21	XINT	O	Interrupt
22	HINT	O	Host interrupt(DSP)
23	XCS	I	Tip select
24	HCS	I	Host servo tip select
25	XWAT	O	Wait
26	VSS	–	Digital Ground
27	MA0	O	DRAM address
28	MA1	O	
29	MA2	O	
30	MA3	O	
31	MA4	O	
32	MA5	O	
33	MA6	O	
34	MA7	O	
35	MA8	O	
36	MA9	O	
37	VDD 3.3V	–	Digital power supply 3.3V
38	XMWR	O	DRAM write enable
39	XCAS	O	DRAM CAS
40	VSS	–	Digital Ground
41	XRAS	O	DRAM RAS
42	XOE	O	DRAM output enable
43	VDD1 1.8V	–	Digital power supply 1.8V
44	MD0	I/O	DRAM data
45	MD1	I/O	
46	MD2	I/O	
47	MD3	I/O	
48	MD4	I/O	
49	MD5	I/O	
50	MD6	I/O	

Pin No.	Pin Name	I/O	Description
51	MD7	I/O	DRAM data
52	VSS	–	Digital Ground
53	MD8	I/O	DRAM data
54	MD9	I/O	
55	MD10	I/O	
56	MD11	I/O	
57	MD12	I/O	
58	MD13	I/O	
59	MD14	I/O	
60	MD15	I/O	
61	VDD 3.3V	–	Digital power supply 3.3V
62	DATA	O	CDDA data
63	BCLK	O	CDDA bit clock
64	VSS	–	Digital Ground
65	LRCK	O	CDDA LR clock
66	DOUT	O	Digital out
67	VDD 1.8V	–	Digital power supply 1.8V
68	SDCK	O	SD bus clock
69	XSHD	O	SD bus header
70	XSRQ	I/O	SD bus REQ
71	XSAK	O	SD bus ACK
72	SDEF	O	SD bus error flag
73	SD0	I/O	SD bus data
74	SD1	I/O	
75	SD2	I/O	
76	SD3	I/O	
77	VSS	–	Digital Ground
78	SD4	I/O	SD bus data
79	SD5	I/O	
80	SD6	I/O	
81	SD7	I/O	
82	VDD 3.3V	–	Digital power supply 3.3V
83	MNT0	I/O	Monitor bus
84	MNT1	I/O	
85	MNT2	I/O	
86	MNT3	I/O	
87	MNT4	I/O	
88	MNT5	I/O	
89	MNT6	I/O	
90	MNT7	I/O	
91	ESTB	O	Error storbe
92	VDD 1.8V	–	Digital power supply 1.8V
93	RFD	I/O	RF digital data in/out
94	VSS	–	Digital Ground
95	PLCKO	O	PLCK output
96	ADO0	O	ADC output
97	ADO1	O	
98	ADO2	O	
99	ADO3	O	
100	ADO4	O	

Pin No.	Pin Name	I/O	Description
101	ADO5	O	ADC output
102	ADO6	O	
103	ADO7	O	
104	VSS	–	Digital Ground
105	VSSA4	–	Analog Ground
106	VCO	I	VCO control input
107	R1	I	VCO outside resistance 1
108	R2	I	VCO outside resistance 2
109	VDDA4 3.3V	–	Analog power supply
110	VSSA3	–	Analog Ground
111	INP	I	OP amp positive input
112	INM	I	OP amp negative input
113	FR3	I	Feedback resistance 3
114	FR2	I	Feedback resistance 2
115	FR1	I	Feedback resistance 1
116	Y	O	OP amp output
117	VDDA3 3.3V	–	Analog power supply
118	VREF	I	DAC reference voltage
119	BIAS	I	DAC bias pin
120	VDDA2 3.3V	–	Analog power supply
121	VSSA2	–	Analog Ground
122	AOUT	O	DAC output
123	IREF	I	Reference current of DAC
124	VSSD2	–	Digital Ground(DAC)
125	VDDD2 3.3V	–	Digital power supply(DAC)
126	VRT	I	ADC reference
127	VDDA1 3.3V	–	Analog power supply
128	RFIN1	I	RF input
129	AIN	I	RF input
130	VSSA1	–	Analog Ground
131	RFIN1	I	RF input
132	VRB	I	ADC reference
133	VSSD1	–	Digital Ground(ADC)
134	VDDD1 3.3V	–	Digital power supply(ADC)
135	ADC0	I	ADC input
136	ADC1	I	
137	ADC2	I	
138	VDDA0 3.3V	–	ASW analog power supply
139	ADC3	I	ADC input
140	ADC4	I	
141	VSSA0	–	ASW analog ground
142	ADC5	I	ADC input
143	ADC6	I	
144	ADC7	I	
145	VDDD0 3.3V	–	ADC digital power supply(DSP)
146	VSSD0	–	ADC digital ground DSP
147	VRBA	I	ADC reference
148	VSSA0	–	Analog ground(ADC)
149	TESTAA	O	ASW output
150	VDDA0 3.3V	–	ADC analog power supply(DSP)

Pin No.	Pin Name	I/O	Description
151	VRTA	I	ADC reference
152	VSS	–	Digital Ground
153	TESTK0	I	Test terminal L
154	TESTK1	I	
155	TESTK2	I	
156	XDSPRST	I	DSP reset
157	XARPRST	I	Reset
158	VSS	–	Digital Ground
159	MDS0	O	CLV speed error
160	MON	O	Motor on
161	MDP0	O	CLV phase error
162	DFCT	I/O	Defect detection output
163	JITPWM	O	Jitter PWM output
164	LOCK	O	EFM lock detection
165	VDD1 1.8V	–	Digital power supply 1.8V
166	GIO0/INT2	I/O	GIO/external interruption
167	GIO1/INT3	I/O	
168	GIO2/INT4	I/O	
169	GIO3/INT5	I/O	
170	VDD 3.3V	–	Digital power supply 3.3V
171	GIO4/PGREF	I/O	GIO/PGREF input
172	GIO5/PGIN	I/O	GIO/PGIN input
173	GIO6/SDI	I/O	GIO/serial data in
174	GIO7/SDO	I/O	GIO/serial data out
175	GIO8/SCK	I/O	GIO/serial clock
176	GIO9/FGREF	I/O	GIO/FGREF input
177	GIO10/FGIN	I/O	GIO/FGIN input
178	GIO11/TMC2	I/O	GIO/Timer 2 clock input
179	GIO12	I/O	GIO(input and output)
180	GIO13	I/O	
181	VSS	–	Digital Ground
182	CLKIN	I	Clock input
183	VSSA5	–	Analog Ground
184	VDDA5 1.8V	–	Analog power supply
185	DFCTI	I	Defect input
186	VSS	–	Digital Ground
187	MCKI	I	Clock for ECC 33MHz
188	VDD 1.8V	–	Digital power supply 1.8V
189	SCKI	I	System clock
190	VSS	–	Digital Ground
191	TRST	I	JTAG Boundary scan
192	TMS	I	
193	TDI	I	
194	TCK	I	
195	TDO	O	
196	TZC	I	TZC input
197	MIRR	I	MIRR input
198	PWM0	O	PWM output
199	PWM1	O	
200	PWM2	O	

Pin No.	Pin Name	I/O	Description
201	VDD 3.3V	–	Digital power supply 3.3V
202	PDM0	O	PDM output
203	PDM1	O	
204	PDM2	O	
205	PDM3	O	
206	VSS	–	Digital Ground
207	XWR	I	CPU light
208	XRD	I	CPU lead

• IC801 CXD2752R (Playback Signal Processor) (DVD Board)

Pin No.	Pin Name	I/O	Description
1	VSCA0	–	Ground
2	XMSLAT	I	Latch signal input for micom serial communication
3	MSCK	I	Shift clock input for micom serial communication
4	MSDATI	I	Data input for micom serial communication
5	VDCA0	–	Power supply
6	MSDATO	O	Data output for micom serial communication
7	MSREADY	O	Output ready flag output for micom serial communication
8	XMSDOE	O	Output enable signal output for micom serial communication
9	XRST	I	Reset signal input
10	SMUTE	I	Soft mute signal input (H:soft mute, L:off)
11	MCKI	I	Master clock input (768Fs 33.8688MHz)
12	VSIOA0	–	Ground for I/O
13	EXCKO1	O	External clock output 1
14	EXCKO2	O	External clock output 2 (not used)
15	LRCK	O	Clock output (1Fs 44.1kHz)(not used)
16	F75HZ	O	Frame signal output
17	VDIOA0	–	Power supply for I/O
18 to 25	MNT0 - 7	O	Monitor signal output (not used)
26	TCK	I	Test clock input (connected to ground)
27	TDI	I	Input terminal for test
28	VSCA1	–	Ground
29	TDO	O	Output terminal for test (open)
30	TMS	I	Input terminal for test (open)
31	TRST	I	Reset terminal for test (open)
32 to 34	TEST1 - 3	I	Input terminal for test (connected to ground)
35	VDCA1	–	Power supply
36	UBIT	O	Output terminal for test (open)
37	XBIT	O	DST monitor terminal (open)
38 to 41	SUPDT0 - 3	O	Supplementary data output (open)
42	VSIOA1	–	Ground for I/O
43, 44	SUPDT4 - 5	O	Supplementary data output (open)
45	VDIOA1	–	Power supply for I/O
46, 47	SUPDT6 - 7	O	Supplementary data output (open)
48	SUPEN	O	Supplementary data acknowledge output (open)
49	VSCA2	–	Ground
50	NC	O	Output terminal for test (open)
51, 52	TEST4 - 5	I	Input terminal for test (connected to ground)
53	NC	O	Output terminal for test (open)
54	VDCA2	–	Power supply
55, 56	NC	O	Output terminal for test (open)
57	BCKASL	I	Bit clock I/O selection signal input for DSD data output (L:slave, H:master)
58	VXDSD0	–	Ground for DSD data output
59	BCKAI	I	Bit clock input for DSD data output (open)
60	BCKAO	O	Bit clock output for DSD data output
61	PHREFI	I	Phase reference signal input for DSD signal phase modulation (open)
62	PHREFO	O	Phase reference signal output for DSD signal phase modulation (open)
63	ZDFL	O	Lch zero data detection flag signal output (open)
64	DSAL	O	Lch DSD data output
65	ZDFR	O	Rch zero data detection flag signal output (open)
66	DSAR	O	Rch DSD data output

Pin No.	Pin Name	I/O	Description
67	VDDSD0	–	Power supply for DSD data output
68	ZDFC	O	Cch zero data detection flag signal output (open)
69	DSAC	O	Cch DSD data output
70	ZDFLFE	O	LFEch zero data detection flag signal output (open)
71	DSALFE	O	LFEch DSD data output
72	VSDSD1	–	Ground for DSD data output
73	ZDFLS	O	LSch zero data detection flag signal output (open)
74	DSALS	O	LSch DSD data output
75	ZDFRS	O	RSch zero data detection flag signal output (open)
76	DSARS	O	RSch DSD data output
77	VDDSD1	–	Power supply for DSD data output
78, 79	IOUT0 - 1	O	Output terminal for test (open)
80	VSCB0	–	Ground
81, 82	IOUT2 - 3	O	Output terminal for test (open)
83	VDCB0	–	Power supply
84, 85	IOUT4 - 5	O	Output terminal for test (open)
86	VSI0B0	–	Ground for I/O
87	IANCO	O	Output terminal for test (open)
88	IFULL	I	Input teminal for test (connected to ground)
89	IEMPTY	I	Input teminal for test (connected to ground)
90	VDIOB0	–	Power supply for I/O
91	IFRM	O	Output terminal for test (open)
92	IOUTE	O	Output terminal for test (open)
93	IBCK	O	Output terminal for test (open)
94	VSCB1	–	Ground
95	IERR	I	Input teminal for test (connected to Vdd)
96	IANCI	I	Input teminal for test (connected to ground)
97	IPLAN	I	Input teminal for test (connected to Vdd)
98	IHOLD	O	Output terminal for test (open)
99	VDCB1	–	Power supply
100	IVLD	I	Input teminal for test (connected to ground)
101 to 105	IDIN0 - 4	I	Input teminal for test (connected to ground)
106	VSI0B1	–	Ground for I/O
107 to 109	IDIN5 - 7	I	Input teminal for test (connected to ground)
110	VDIOB1	–	Power supply for I/O
111 to 114	WAD0 - 3	I	External A/D data input for PSP physical disc mark detection
115	TESTI	–	Input teminal for test (pull-down)
116	VSCB2	–	Ground
117 to 120	WAD4 - 7	I	External A/D data input for PSP physical disc mark detection
121	VDCB2	–	Power supply
122	WRFD	I	Input teminal for test (connected to ground)
123	WCK	I	Clock input for PSP physical disc mark detection
124 to 125	WAVDD0 - 1	–	A/D power supply for PSP physical disc mark detection (+2.5v)
126	WARFI	I	Analog RF signal input for PSP physical disc mark detection
127	WAVRB	I	A/D bottom reference input for PSP physical disc mark detection
128 to 129	WAVSS1 - 0	–	A/D ground for PSP physical disc mark detection
130	VSIOA2	–	Ground for I/O
131 to 134	DQ7 - 4	I/O	SDRAM data input/output terminal
135	VDIOA2	–	Power supply for I/O
136 to 139	DQ3 - 0	I/O	SDRAM data input/output terminal

Pin No.	Pin Name	I/O	Description
140	VSIOA3	–	Ground for I/O
141	DCLK	O	Clock output terminal for SDRAM
142	DCKE	O	Clock enable signal output for SDRAM
143	XWE	O	Write enable signal output for SDRAM
144	XCAS	O	Column address strobe signal output for SDRAM
145	XRAS	O	Row address strobe signal output for SDRAM
146	VDIOA3	–	Ground for I/O
147	NC	O	Output terminal for test (open)
148, 149	A11 -10	O	Address signal output for SDRAM
150	VSCA3	–	Ground
151, 152	A9 - 8	O	Address signal output for SDRAM
153	VDCA3	–	Power supply
154 to 157	A7 - 4	O	Address signal output for SDRAM
158	VSIOA4	–	Ground for I/O
159 to 162	A3 - 0	O	Address signal output for SDRAM
163	VDIOA4	–	Power supply for I/O
164	XSRQ	O	Data request output to the front end processor
165	XSHD	I	Header flag input from the front end processor
166	SDCK	I	Data transfer clock input from the front end processor
167	XSAK	I	Data effective flag input from the front end processor
168	SDEF	I	Error flag input from the front end processor
169 to 176	SD0 -7	I	Stream data input from the front end processor

SECTION 6
EXPLODED VIEWS

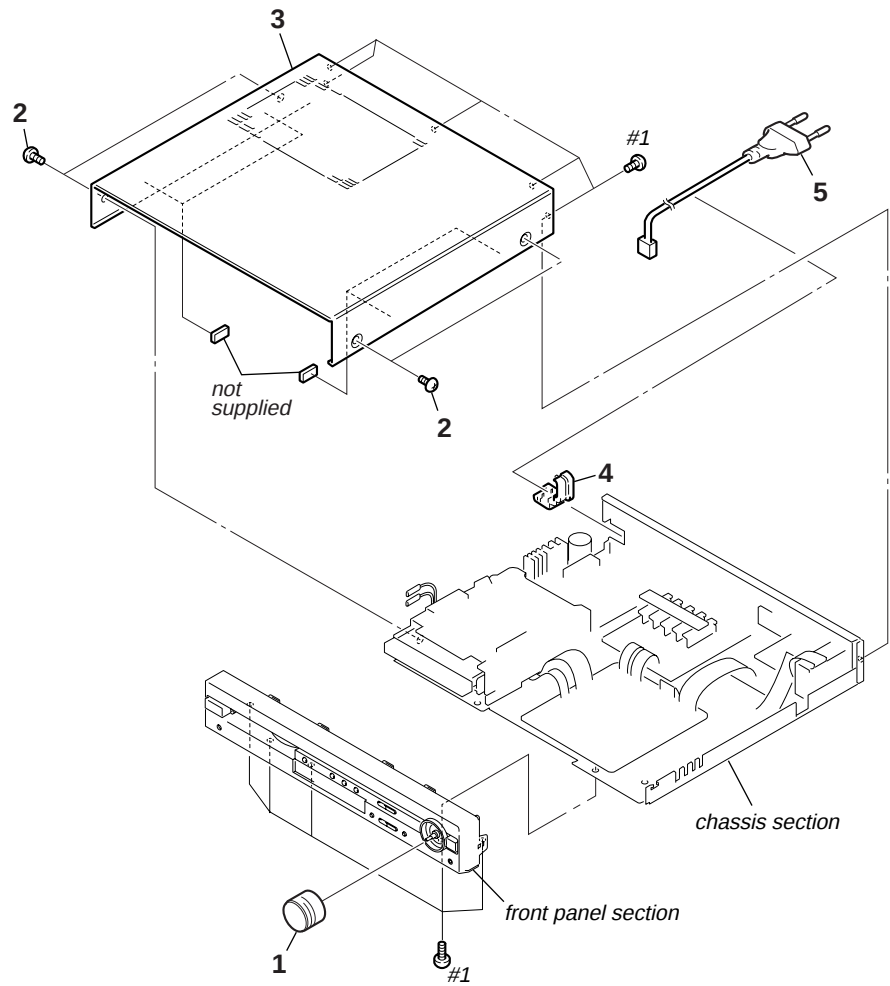
NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation
MY : Malaysia model
SP : Singapole model

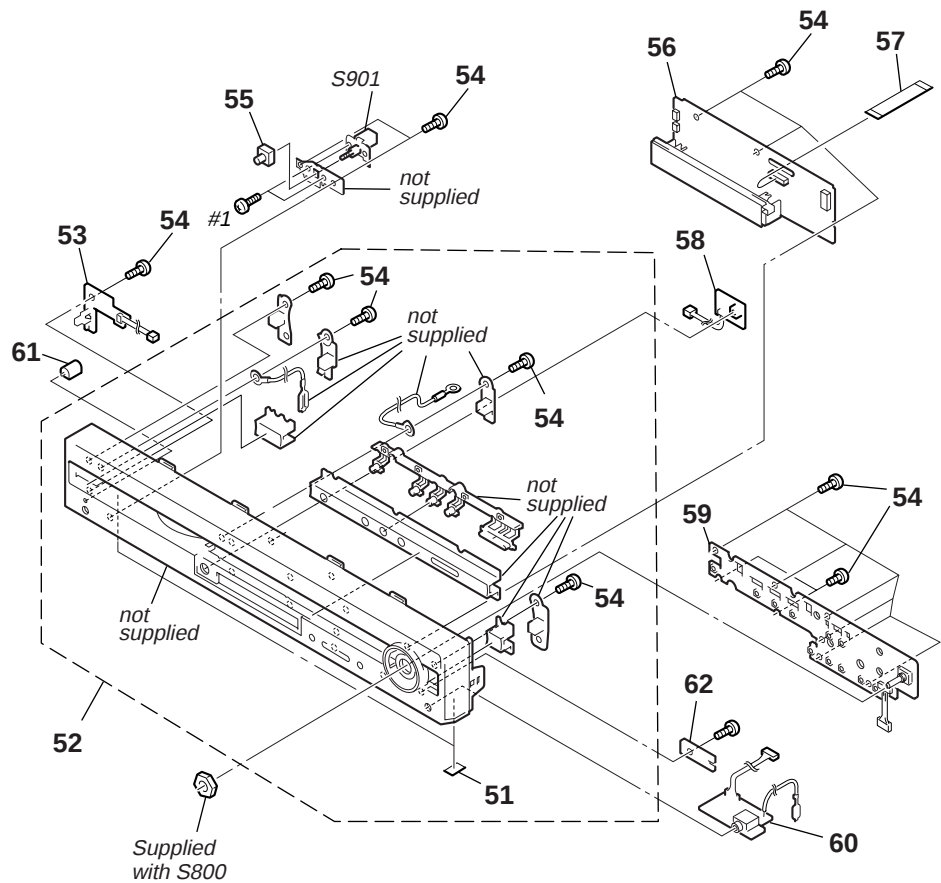
The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

6-1. Main Section



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-4954-258-1	KNOB SUB ASSY, VOL		4	4-217-350-11	STOPPER, CORD	
2	4-221-580-01	SCREW, CASE		$\triangle$ 5	1-696-169-11	CORD, POWER	
3	4-236-875-01	CASE, TOP		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	

6-2. Front Panel Section

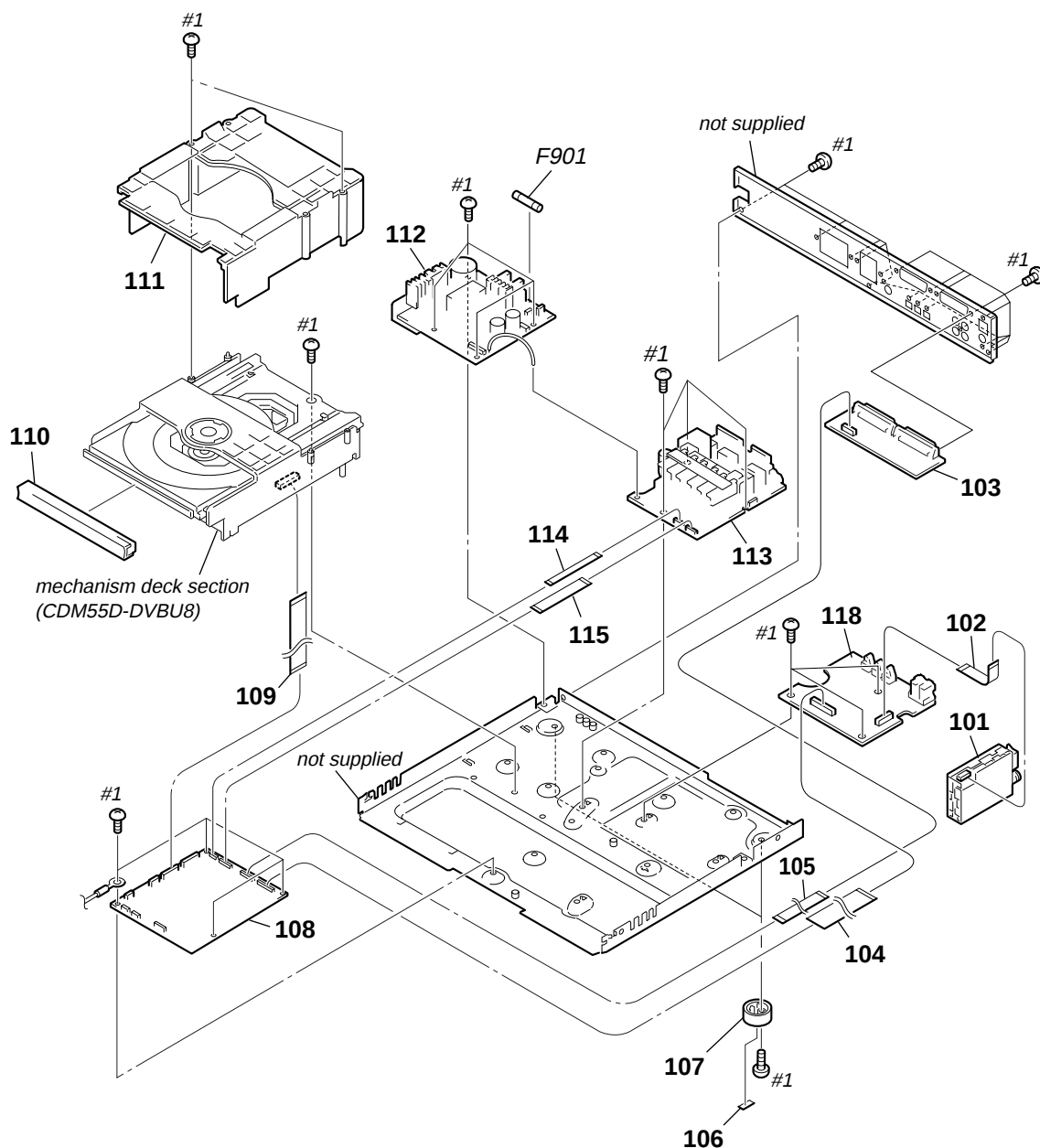


Ref. No.	Part No.	Description	Remark
51	4-234-924-01	FOOT	
52	X-4954-717-1	PANEL SUB ASSY, FRONT (AEP,UK)	
52	X-4954-989-1	PANEL SUB ASSY, FRONT (MY,SP)	
53	1-683-237-11	STBY BOARD	
54	4-931-757-31	SCREW(DIA.2.6X8)(IT3B),TAPPING	
55	4-236-882-01	BUTTON, POWER	
56	A-4676-597-A	FL BOARD, COMPLETE	
57	1-792-672-11	CABLE, FLEXIBLE FLAT (15 CORE)	

Ref. No.	Part No.	Description	Remark
58	1-683-235-11	REMOCON BOARD	
59	1-683-234-11	SW BOARD	
60	1-683-236-11	HP BOARD	
61	4-236-873-01	INDICATOR, STANDBY (MY,SP)	
62	1-683-239-11	HP RETAINER BOARD	
△ S901	1-786-303-11	SWITCH, POWER	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

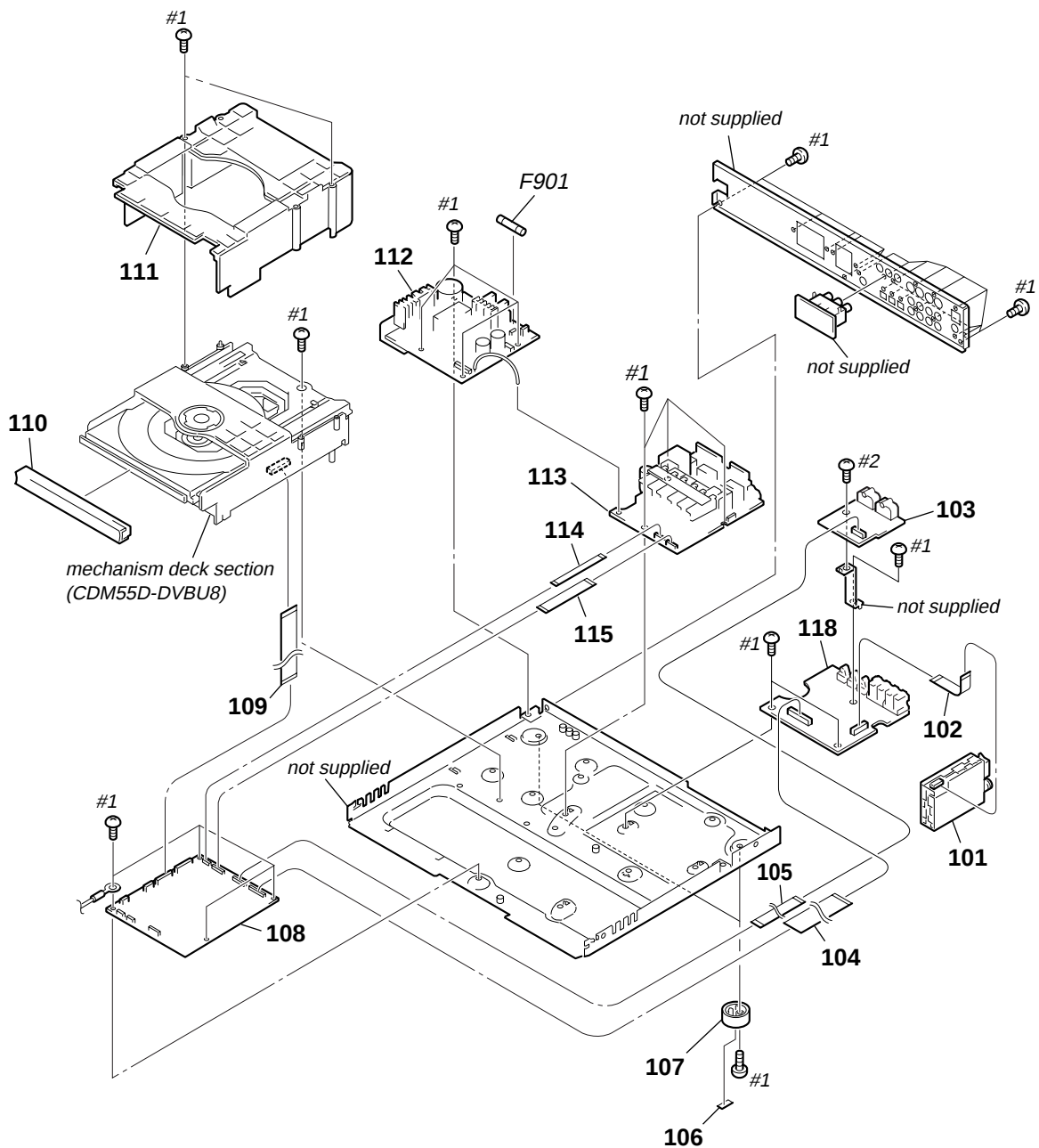
6-3. Chassis Section (AEP, UK model)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-4726-588-A	TUNER UNIT		110	X-4954-513-1	LID, CD ASSY	
102				111	4-234-906-02	COVER, MD	
103	A-4676-612-A	SCART BOARD, COMPLETE (AEP,UK)		112	A-4676-604-A	POWER BOARD, COMPLETE (AEP,UK)	
104				113	A-4676-606-A	AMP BOARD, COMPLETE	
105				114			
106	4-234-924-01	FOOT		115			
107	4-236-866-01	RING (DIA. 30), ORNAMENTAL		118	A-4676-601-A	IO BOARD, COMPLETE (AEP,UK)	
108	A-4676-609-A	DVD BOARD, COMPLETE (AEP,UK)		△F901	1-533-470-11	FUSE, GLASS TUBE (DIA. 5) T3.15AL/250V	
109				#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

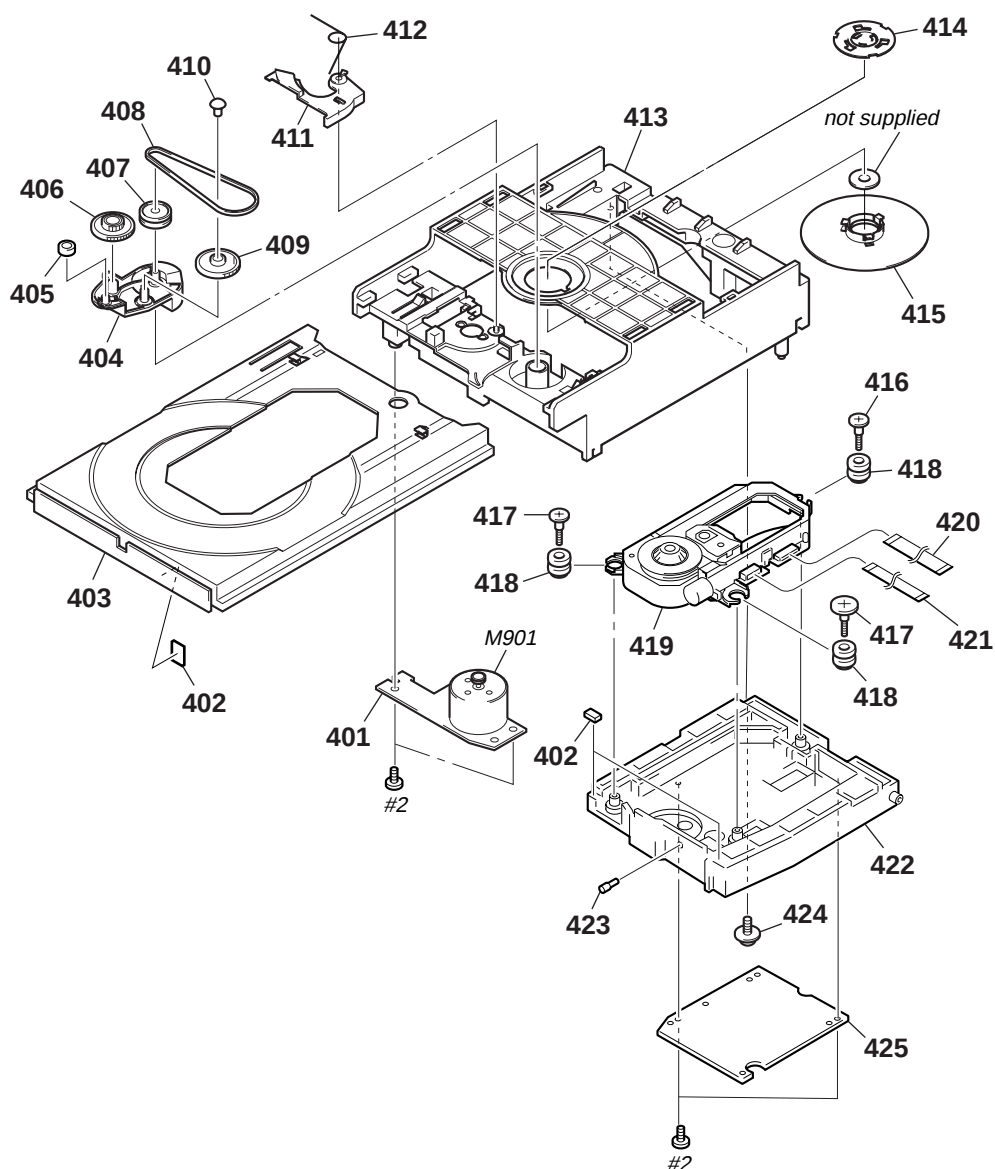
6-4. Chassis Section (MY, SP model)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-4726-905-A	TUNER UNIT		111	4-234-906-02	COVER, MD	
102				112	A-4729-929-A	POWER BOARD, COMPLETE (MY,SP)	
103	A-4729-934-A	VIDEO BOARD, COMPLETE (MY,SP)		113	A-4676-606-A	AMP BOARD, COMPLETE	
104				114			
105				115			
106	4-234-924-01	FOOT		118	A-4729-927-A	IO BOARD, COMPLETE (MY,SP)	
107	4-236-866-01	RING (DIA. 30), ORNAMENTAL		△F901	1-533-470-11	FUSE, GLASS TUBE (DIA. 5) T3.15A/250V	
108	A-4729-931-A	DVD BOARD, COMPLETE (MY,SP)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
109				#2	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S (MY,SP)	
110	X-4954-513-1	LID, CD ASSY					

The components identified by mark or dotted line with mark  are critical for safety.
Replace only with part number specified.

6-5. Mechanism Deck Section (CDM55D-DVBU8)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	1-676-599-11	LOADING BOARD		415	4-234-766-01	PULLEY (B-240)	
402	4-925-315-31	DAMPER		416	4-236-450-01	SCREW (L), STEP	
403	4-224-894-01	TRAY		417	4-981-923-01	SCREW (M), STEP	
404	4-220-233-01	CAM (CDM55)		418	3-053-847-31	INSULATOR	
405	4-221-815-01	ROLLER		△ 419	8-820-144-06	OPTICAL PICK-UP (KHM-240AAA)	
406	4-220-237-01	GEAR (A)		420	1-823-072-11	CABLE, FLEXIBLE FLAT 26P	
407	4-220-234-01	PULLEY (LDG)		421	1-823-073-11	CABLE, FLEXIBLE FLAT (9 CORE)	
408	4-221-816-01	BELT (CDM55)		422	4-234-374-01	HOLDER (KHM-240)	
409	4-220-238-01	GEAR (B)		423	4-221-817-02	SHAFT (BU)	
410	4-227-598-01	SPACER (55)		424	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
411	4-220-229-01	LEVER (SW)		425	A-4726-850-A	RF-240 BOARD, COMPLETE	
412	4-220-239-01	SPRING, TORSION		M901	A-2004-893-A	MOTOR (LD) ASSY (LOADING)	
413	4-225-884-02	CHASSIS (55D)		#2	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
414	4-235-116-01	PULLEY (A-240)					

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

SECTION 7 ELECTRICAL PARTS LIST

Note:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
uF : μ F

- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F : nonflammable
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,
uPC...: μ PC..., uPD...: μ PD...
- COILS
uH : μ H

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

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- Abbreviation
MY : Malaysia model
SP : Singapore model

Ref. No.	Part No.	Description	Remarks				Ref. No.	Part No.	Description	Remarks			
	A-4676-606-A	AMP BOARD, COMPLETE *****					C349	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
							C350	1-104-665-11	ELECT	100uF	20.00%	10V	
							C351	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S					C352	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
		< CAPACITOR >					C353	1-136-157-00	FILM	0.022uF	5%	50V	
C300	1-115-819-11	ELECT	2200uF	20.00%	35V		C354	1-136-157-00	FILM	0.022uF	5%	50V	
C301	1-126-965-91	ELECT	22uF	20.00%	50V		C355	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C302	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C356	1-136-165-00	FILM	0.1uF	5%	50V	
C303	1-136-157-00	FILM	0.022uF	5%	50V		C357	1-136-165-00	FILM	0.1uF	5%	50V	
C304	1-136-157-00	FILM	0.022uF	5%	50V		C358	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C305	1-136-165-00	FILM	0.1uF	5%	50V		C359	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C362	1-104-665-11	ELECT	100uF	20.00%	10V	
C307	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V		C363	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V	
C308	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		C364	1-126-948-11	ELECT	100uF	20.00%	35V	
C309	1-164-156-11	CERAMIC CHIP	0.1uF		25V		C365	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C310	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C368	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C311	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C372	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C312	1-104-665-11	ELECT	100uF	20.00%	10V		C373	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C313	1-136-165-00	FILM	0.1uF	5%	50V		C374	1-136-157-00	FILM	0.022uF	5%	50V	
C316	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V		C375	1-136-157-00	FILM	0.022uF	5%	50V	
C317	1-126-948-11	ELECT	100uF	20.00%	35V		C376	1-136-165-00	FILM	0.1uF	5%	50V	
C318	1-104-665-11	ELECT	100uF	20.00%	10V		C377	1-136-165-00	FILM	0.1uF	5%	50V	
C319	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V		C378	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C320	1-104-665-11	ELECT	100uF	20.00%	10V		C381	1-104-665-11	ELECT	100uF	20.00%	10V	
C323	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C382	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V	
C324	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C383	1-126-948-11	ELECT	100uF	20.00%	35V	
C325	1-104-665-11	ELECT	100uF	20.00%	10V		C384	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C326	1-126-947-11	ELECT	47uF	20.00%	10V		C387	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C327	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C388	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C328	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V		C389	1-104-665-11	ELECT	100uF	20.00%	10V	
C329	1-126-934-11	ELECT	220uF	20.00%	10V		C390	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C330	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C391	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C331	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V		C392	1-104-665-11	ELECT	100uF	20.00%	10V	
C332	1-136-157-00	FILM	0.022uF	5%	50V		C393	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C333	1-136-157-00	FILM	0.022uF	5%	50V		C394	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C334	1-136-165-00	FILM	0.1uF	5%	50V		C395	1-136-157-00	FILM	0.022uF	5%	50V	
C335	1-136-165-00	FILM	0.1uF	5%	50V		C396	1-136-157-00	FILM	0.022uF	5%	50V	
C336	1-104-665-11	ELECT	100uF	20.00%	10V		C397	1-136-165-00	FILM	0.1uF	5%	50V	
C337	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V		C398	1-136-165-00	FILM	0.1uF	5%	50V	
C338	1-216-295-91	SHORT CHIP	0				C399	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C341	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V		C402	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V	
C342	1-126-948-11	ELECT	100uF	20.00%	35V		C403	1-126-948-11	ELECT	100uF	20.00%	35V	
C343	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V		C404	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C344	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C405	1-104-665-11	ELECT	100uF	20.00%	10V	
C345	1-104-665-11	ELECT	100uF	20.00%	10V		C408	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
							C409	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C348	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C410	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C415	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D374	6-500-131-01	DIODE LI116	
C416	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D380	6-500-131-01	DIODE LI116	
C425	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D381	6-500-131-01	DIODE LI116	
C432	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V	D382	6-500-131-01	DIODE LI116	
C451	1-136-177-00	FILM	1uF 5.00% 50V	D383	6-500-131-01	DIODE LI116	
C452	1-136-177-00	FILM	1uF 5.00% 50V	D384	6-500-131-01	DIODE LI116	
C453	1-136-177-00	FILM	1uF 5.00% 50V	D490	8-719-977-22	DIODE UDZ-TE-17-9.1B	
C454	1-136-177-00	FILM	1uF 5.00% 50V	D491	8-719-988-61	DIODE 1SS355TE-17	
C455	1-136-177-00	FILM	1uF 5.00% 50V	D492	8-719-056-78	DIODE UDZ-TE-17-4.3B	
C456	1-136-177-00	FILM	1uF 5.00% 50V	D493	8-719-988-61	DIODE 1SS355TE-17	
C457	1-136-177-00	FILM	1uF 5.00% 50V	D495	8-719-988-61	DIODE 1SS355TE-17	
C458	1-136-177-00	FILM	1uF 5.00% 50V	< GROUND TERMINAL >			
C459	1-136-177-00	FILM	1uF 5.00% 50V	EB301	1-537-770-21	TERMINAL BOARD, GROUND	
C460	1-136-177-00	FILM	1uF 5.00% 50V	< FERRITE BEAD >			
C461	1-126-933-11	ELECT	100uF 20.00% 16V	FB300	1-469-760-21	INDUCTOR 0UH	
C462	1-164-156-11	CERAMIC CHIP	0.1uF 25V	FB301	1-469-760-21	INDUCTOR 0UH	
C463	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	FB303	1-400-160-51	INDUCTOR 0UH	
C464	1-104-663-11	ELECT	33uF 20.00% 25V	FB304	1-469-760-21	INDUCTOR 0UH	
C465	1-162-928-11	CERAMIC CHIP	120PF 5% 50V	FB307	1-469-760-21	INDUCTOR 0UH	
C466	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	FB308	1-469-760-21	INDUCTOR 0UH	
C467	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	FB309	1-400-160-51	INDUCTOR 0UH	
C468	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	FB310	1-216-295-91	SHORT CHIP 0	
C469	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	FB311	1-216-295-91	SHORT CHIP 0	
C470	1-162-928-11	CERAMIC CHIP	120PF 5% 50V	FB312	1-400-160-51	INDUCTOR 0UH	
C471	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	FB313	1-400-160-51	INDUCTOR 0UH	
C472	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	FB314	1-469-760-21	INDUCTOR 0UH	
C480	1-162-928-11	CERAMIC CHIP	120PF 5% 50V	FB315	1-469-760-21	INDUCTOR 0UH	
C481	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	FB316	1-216-295-91	SHORT CHIP 0	
C482	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	FB318	1-400-160-51	INDUCTOR 0UH	
C486	1-164-230-11	CERAMIC CHIP	220PF 5.00% 50V	< IC >			
C487	1-164-230-11	CERAMIC CHIP	220PF 5.00% 50V	IC300	8-759-834-29	IC MC74VHC1G04DFT1	
C490	1-126-947-11	ELECT	47uF 20.00% 35V	IC301	6-701-741-01	IC CXD9646C	
C491	1-126-933-11	ELECT	100uF 20.00% 16V	IC302	8-759-533-85	IC BA05FP-E2	
C492	1-164-156-11	CERAMIC CHIP	0.1uF 25V	IC303	8-759-460-72	IC BA033FP-E2	
C493	1-164-156-11	CERAMIC CHIP	0.1uF 25V	IC304	6-701-741-01	IC CXD9646C	
< CONNECTOR >				IC305	6-700-279-01	IC CXD9634Q	
CN301	1-779-280-11	CONNECTOR,FFC(LIF(NON-ZIF))12P		IC306	6-701-741-01	IC CXD9646C	
CN305	1-793-600-11	CONNECTOR, FFC/FPC (ZIF) 17P		IC307	6-701-741-01	IC CXD9646C	
* CN309	1-568-954-11	PIN, CONNECTOR 5P		IC308	6-700-279-01	IC CXD9634Q	
< DIODE >				IC309	6-701-741-01	IC CXD9646C	
D331	8-719-988-61	DIODE 1SS355TE-17		IC310	6-700-279-01	IC CXD9634Q	
D350	6-500-060-01	DIODE P6SMB36AT3		IC311	8-759-385-17	IC NJM4580E(TE2)	
D351	6-500-060-01	DIODE P6SMB36AT3		IC312	8-759-834-30	IC MC74VHC1G08DFT1	
D352	6-500-060-01	DIODE P6SMB36AT3		IC401	8-759-385-17	IC NJM4580E(TE2)	
D353	6-500-060-01	DIODE P6SMB36AT3		< JACK >			
D354	6-500-060-01	DIODE P6SMB36AT3		J204	1-794-034-11	JACK, PIN 1P (SUB WOOFER AUDIO OUT)	
D360	6-500-060-01	DIODE P6SMB36AT3		< COIL >			
D361	6-500-060-01	DIODE P6SMB36AT3		L300	1-469-525-91	INDUCTOR 10uH	
D362	6-500-060-01	DIODE P6SMB36AT3		L302	1-469-522-91	INDUCTOR 1uH	
D363	6-500-060-01	DIODE P6SMB36AT3		L401	1-424-777-11	INDUCTOR 10uH	
D364	6-500-060-01	DIODE P6SMB36AT3		L402	1-424-777-11	INDUCTOR 10uH	
D370	6-500-131-01	DIODE LI116		L403	1-424-777-11	INDUCTOR 10uH	
D371	6-500-131-01	DIODE LI116					
D372	6-500-131-01	DIODE LI116					
D373	6-500-131-01	DIODE LI116					

AVD-S10

AMP	COMPONENT
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Ref. No.	Part No.	Description	Remarks		
L404	1-424-777-11	INDUCTOR	10uH		
L405	1-424-777-11	INDUCTOR	10uH		
		< POST PIN >			
PIN301	1-536-354-00	POST PIN			
		< TRANSISTOR >			
Q301	8-729-119-79	TRANSISTOR	2SC2785TP-FEK		
Q490	8-729-901-00	TRANSISTOR	DTC124EKA-T146		
Q491	8-729-901-00	TRANSISTOR	DTC124EKA-T146		
Q492	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q495	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
		< RESISTOR >			
R300	1-216-833-11	METAL CHIP	10K	5%	1/16W
R301	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R302	1-216-857-11	METAL CHIP	1M	5%	1/16W
R303	1-216-833-11	METAL CHIP	10K	5%	1/16W
R304	1-216-809-11	METAL CHIP	100	5%	1/16W
R305	1-216-809-11	METAL CHIP	100	5%	1/16W
R306	1-216-295-91	SHORT CHIP	0		
R307	1-216-809-11	METAL CHIP	100	5%	1/16W
R308	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R309	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R310	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R311	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R312	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R313	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R315	1-216-809-11	METAL CHIP	100	5%	1/16W
R316	1-216-809-11	METAL CHIP	100	5%	1/16W
R317	1-216-809-11	METAL CHIP	100	5%	1/16W
R318	1-216-809-11	METAL CHIP	100	5%	1/16W
R319	1-216-809-11	METAL CHIP	100	5%	1/16W
R320	1-216-809-11	METAL CHIP	100	5%	1/16W
R321	1-216-809-11	METAL CHIP	100	5%	1/16W
R322	1-216-803-11	METAL CHIP	33	5%	1/16W
R325	1-216-801-11	METAL CHIP	22	5%	1/16W
R330	1-216-809-11	METAL CHIP	100	5%	1/16W
R334	1-216-820-11	METAL CHIP	820	5%	1/16W
R336	1-216-820-11	METAL CHIP	820	5%	1/16W
R337	1-216-833-11	METAL CHIP	10K	5%	1/16W
R338	1-216-295-91	SHORT CHIP	0		
R339	1-216-814-11	METAL CHIP	270	5%	1/16W
R340	1-216-814-11	METAL CHIP	270	5%	1/16W
R341	1-216-814-11	METAL CHIP	270	5%	1/16W
R342	1-216-814-11	METAL CHIP	270	5%	1/16W
R343	1-216-809-11	METAL CHIP	100	5%	1/16W
R344	1-216-814-11	METAL CHIP	270	5%	1/16W
R346	1-216-295-91	SHORT CHIP	0		
R347	1-216-295-91	SHORT CHIP	0		
R348	1-216-809-11	METAL CHIP	100	5%	1/16W
R349	1-216-809-11	METAL CHIP	100	5%	1/16W
R350	1-216-809-11	METAL CHIP	100	5%	1/16W
R361	1-216-073-91	RES-CHIP	10K	5%	1/10W
R362	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R363	1-216-082-00	RES-CHIP	24K	5%	1/10W
R364	1-216-089-91	RES-CHIP	47K	5%	1/10W
R365	1-216-839-11	METAL CHIP	33K	5%	1/16W

Ref. No.	Part No.	Description	Remarks		
R366	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R368	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R369	1-216-081-00	METAL CHIP	22K	5%	1/10W
R370	1-216-081-00	METAL CHIP	22K	5%	1/10W
R371	1-216-085-91	RES-CHIP	33K	5%	1/10W
R372	1-216-097-11	RES-CHIP	100K	5%	1/10W
R373	1-216-025-11	RES-CHIP	100	5%	1/10W
R374	1-216-833-11	METAL CHIP	10K	5%	1/16W
R380	1-216-081-00	METAL CHIP	22K	5%	1/10W
R381	1-216-081-00	METAL CHIP	22K	5%	1/10W
R395	1-216-046-00	METAL CHIP	750	5%	1/10W
R396	1-216-049-11	RES-CHIP	1K	5%	1/10W
R470	1-216-081-00	METAL CHIP	22K	5%	1/10W
R471	1-216-081-00	METAL CHIP	22K	5%	1/10W
R472	1-216-081-00	METAL CHIP	22K	5%	1/10W
R473	1-216-081-00	METAL CHIP	22K	5%	1/10W
R474	1-216-082-00	RES-CHIP	24K	5%	1/10W
R475	1-216-085-91	RES-CHIP	33K	5%	1/10W
R480	1-216-081-00	METAL CHIP	22K	5%	1/10W
R481	1-216-081-00	METAL CHIP	22K	5%	1/10W
R482	1-216-081-00	METAL CHIP	22K	5%	1/10W
R483	1-216-081-00	METAL CHIP	22K	5%	1/10W
R484	1-216-082-00	RES-CHIP	24K	5%	1/10W
R485	1-216-085-91	RES-CHIP	33K	5%	1/10W
R490	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R491	1-216-073-91	RES-CHIP	10K	5%	1/10W
R492	1-216-089-91	RES-CHIP	47K	5%	1/10W
R493	1-216-089-91	RES-CHIP	47K	5%	1/10W
		< RELAY >			
RY301	1-515-920-11	RELAY (24V)			
RY302	1-515-920-11	RELAY (24V)			
RY303	1-515-920-11	RELAY (24V)			
		< TERMINAL >			
SJ401	1-694-805-11	TERMINAL BOARD			
		(SPEAKERS CENTER,SURROUND)			
SJ402	1-694-785-11	TERMINAL BOARD (SPEAKERS FRONT)			
		< VIBRATOR >			
X300	1-795-286-21	VIBRATOR, CRYSTAL 49.152MHz			

		COMPONENT BOARD			

		< CONNECTOR >			
C750	1-126-933-11	ELECT	100uF	20.00%	16V (MY,SP)
C751	1-128-551-11	ELECT	22uF	20.00%	25V (MY,SP)
C752	1-126-933-11	ELECT	100uF	20.00%	16V (MY,SP)
C753	1-128-551-11	ELECT	22uF	20.00%	25V (MY,SP)
C754	1-126-933-11	ELECT	100uF	20.00%	16V (MY,SP)

COMPONENT

DVD

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C755	1-128-551-11	ELECT	22uF	20.00%	25V (MY,SP)	C305	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C756	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (MY,SP)	C306	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
C757	1-126-933-11	ELECT	100uF	20.00%	16V (MY,SP)	C307	1-164-947-11	CERAMIC CHIP	0.01uF		50V
		< IC >				C309	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
IC704	8-759-522-11	IC BA7660FS-E2 (MY,SP)				C310	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
		< JACK >				C311	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
J704	1-815-814-21	JACK, PIN 3P (COMPONENT VIDEO OUT) (MY,SP)				C312	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		< RESISTOR >				C313	1-127-772-81	CERAMIC CHIP	33000PF	10%	10V
R735	1-218-285-11	RES-CHIP	75	5%	1/10W (MY,SP)	C315	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
R736	1-218-285-11	RES-CHIP	75	5%	1/10W (MY,SP)	C317	1-164-947-11	CERAMIC CHIP	0.01uF		50V
R737	1-218-285-11	RES-CHIP	75	5%	1/10W (MY,SP)	C318	1-164-947-11	CERAMIC CHIP	0.01uF		50V
*****						C319	1-137-987-81	CERAMIC CHIP	0.068uF	10%	10V
A-4676-609-A	DVD BOARD, COMPLETE (AEP,UK)					C320	1-164-947-11	CERAMIC CHIP	0.01uF		50V
A-4729-931-A	DVD BOARD, COMPLETE (MY,SP)					C321	1-164-947-11	CERAMIC CHIP	0.01uF		50V
	*****					C322	1-164-947-11	CERAMIC CHIP	0.01uF		50V
	< CAPACITOR >					C323	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C001	1-165-798-21	ELECT CHIP	100uF	20%	6.3V (MY,SP)	C324	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C003	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	C325	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C004	1-126-204-11	ELECT CHIP	47uF	20%	16V	C326	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C005	1-126-246-11	ELECT CHIP	220uF	20%	4V	C327	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C006	1-126-204-11	ELECT CHIP	47uF	20%	16V	C328	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C008	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C331	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C010	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C332	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C011	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C333	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C012	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C334	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C013	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C335	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C014	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C336	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C016	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C337	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C017	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C338	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C018	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C339	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C019	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C340	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C103	1-164-947-11	CERAMIC CHIP	0.01uF		50V	C341	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C104	1-126-209-11	ELECT CHIP	100uF	20.00%	4V	C342	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C105	1-164-947-11	CERAMIC CHIP	0.01uF		50V	C343	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C106	1-164-947-11	CERAMIC CHIP	0.01uF		50V	C344	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C107	1-164-850-11	CERAMIC CHIP	10PF	0.50PF	50V	C345	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C108	1-164-854-11	CERAMIC CHIP	15PF	5.00%	50V	C346	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
C109	1-164-947-11	CERAMIC CHIP	0.01uF		50V	C347	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C110	1-126-209-11	ELECT CHIP	100uF	20.00%	4V	C348	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C111	1-164-947-11	CERAMIC CHIP	0.01uF		50V	C349	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C112	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C350	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C113	1-164-947-11	CERAMIC CHIP	0.01uF		50V	C351	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C114	1-164-947-11	CERAMIC CHIP	0.01uF		50V	C401	1-127-988-81	CERAMIC CHIP	15000PF	10%	16V
C116	1-164-947-11	CERAMIC CHIP	0.01uF		50V	C402	1-164-882-11	CERAMIC CHIP	220PF	5.00%	16V
C119	1-164-947-11	CERAMIC CHIP	0.01uF		50V	C403	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C124	1-164-947-11	CERAMIC CHIP	0.01uF		50V	C404	1-164-938-11	CERAMIC CHIP	0.0015uF	10.00%	50V
C304	1-126-246-11	ELECT CHIP	220uF	20%	4V	C405	1-107-820-11	CERAMIC CHIP	0.1uF		16V
						C406	1-107-820-11	CERAMIC CHIP	0.1uF		16V
						C407	1-164-882-11	CERAMIC CHIP	220PF	5.00%	16V
						C408	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
						C411	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
						C412	1-127-772-81	CERAMIC CHIP	33000PF	10%	10V
						C413	1-127-772-81	CERAMIC CHIP	33000PF	10%	10V
						C414	1-164-947-11	CERAMIC CHIP	0.01uF		50V
						C415	1-164-947-11	CERAMIC CHIP	0.01uF		50V
						C416	1-164-947-11	CERAMIC CHIP	0.01uF		50V
						C417	1-164-947-11	CERAMIC CHIP	0.01uF		50V
						C418	1-164-947-11	CERAMIC CHIP	0.01uF		50V

Ref. No.	Part No.	Description		Remarks	Ref. No.	Part No.	Description		Remarks
C419	1-117-681-11	ELECT CHIP	100uF	20.00% 16V	C614	1-124-779-00	ELECT CHIP	10uF	20% 16V
C420	1-107-820-11	CERAMIC CHIP	0.1uF	16V	C615	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C421	1-107-820-11	CERAMIC CHIP	0.1uF	16V	C616	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C429	1-164-937-11	CERAMIC CHIP	0.001uF	10.00% 50V	C617	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C430	1-164-937-11	CERAMIC CHIP	0.001uF	10.00% 50V	C618	1-124-779-00	ELECT CHIP	10uF	20% 16V
C501	1-126-193-11	ELECT	1uF	20% 50V	C619	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C502	1-117-370-11	CERAMIC CHIP	10uF	10V	C620	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C504	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C621	1-164-935-11	CERAMIC CHIP	470PF	10.00% 50V
C506	1-117-370-11	CERAMIC CHIP	10uF	10V	C622	1-124-779-00	ELECT CHIP	10uF	20% 16V
C508	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C623	1-164-850-11	CERAMIC CHIP	10PF	0.50PF 50V
C509	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C624	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C510	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C625	1-124-779-00	ELECT CHIP	10uF	20% 16V
C511	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C626	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C512	1-126-246-11	ELECT CHIP	220uF	20% 4V	C627	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C513	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C628	1-124-779-00	ELECT CHIP	10uF	20% 16V
C514	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C629	1-164-935-11	CERAMIC CHIP	470PF	10.00% 50V
C516	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C630	1-117-370-11	CERAMIC CHIP	10uF	10V
C518	1-107-820-11	CERAMIC CHIP	0.1uF	16V	C631	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C519	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C632	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C520	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C633	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C521	1-107-820-11	CERAMIC CHIP	0.1uF	16V	C634	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C522	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C635	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C523	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C635	1-162-974-11	CERAMIC CHIP	0.01uF	50V (MY,SP)
C524	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C636	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C525	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C637	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C526	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C638	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C529	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C639	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C530	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C640	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C531	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C641	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C532	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C642	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C533	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C643	1-126-246-11	ELECT CHIP	220uF	20% 4V
C534	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C644	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C535	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C645	1-124-779-00	ELECT CHIP	10uF	20% 16V
C536	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C646	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C537	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C647	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C538	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C648	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C539	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C650	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C540	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C651	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C541	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C652	1-126-246-11	ELECT CHIP	220uF	20% 4V
C542	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C653	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C545	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C654	1-117-681-11	ELECT CHIP	100uF	20.00% 16V
C546	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C656	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C547	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C657	1-117-370-11	CERAMIC CHIP	10uF	10V
C552	1-107-820-11	CERAMIC CHIP	0.1uF	16V	C658	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C600	1-107-820-11	CERAMIC CHIP	0.1uF	16V	C659	1-124-779-00	ELECT CHIP	10uF	20% 16V
C601	1-107-820-11	CERAMIC CHIP	0.1uF	16V	C660	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C602	1-117-681-11	ELECT CHIP	100uF	20.00% 16V	C661	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C603	1-164-858-11	CERAMIC CHIP	22PF	5.00% 50V	C662	1-126-205-11	ELECT CHIP	47uF	20% 6.3V
C604	1-164-868-11	CERAMIC CHIP	56PF	5.00% 50V	C663	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C606	1-126-206-11	ELECT CHIP	100uF	20% 6.3V	C664	1-124-779-00	ELECT CHIP	10uF	20% 16V
C607	1-107-820-11	CERAMIC CHIP	0.1uF	16V	C665	1-107-820-11	CERAMIC CHIP	0.1uF	16V
C608	1-107-820-11	CERAMIC CHIP	0.1uF	16V	C666	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C609	1-107-820-11	CERAMIC CHIP	0.1uF	16V	C667	1-117-370-11	CERAMIC CHIP	10uF	10V
C610	1-126-205-11	ELECT CHIP	47uF	20% 6.3V	C668	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C611	1-164-947-11	CERAMIC CHIP	0.01uF	50V	C669	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C612	1-117-370-11	CERAMIC CHIP	10uF	10V	C670	1-164-947-11	CERAMIC CHIP	0.01uF	50V
C613	1-117-370-11	CERAMIC CHIP	10uF	10V	C671	1-164-947-11	CERAMIC CHIP	0.01uF	50V

Ref. No.	Part No.	Description		Remarks	Ref. No.	Part No.	Description		Remarks
C672	1-164-947-11	CERAMIC CHIP	0.01uF	50V	CN003	1-784-376-31	CONNECTOR, FFC/FPC 17P (AEP,UK)		
C673	1-164-947-11	CERAMIC CHIP	0.01uF	50V	CN003	1-793-989-21	CONNECTOR, FFC/FPC 13P (MY,SP)		
					CN004	1-784-376-31	CONNECTOR, FFC/FPC 17P		
C674	1-117-370-11	CERAMIC CHIP	10uF	10V					
C675	1-164-947-11	CERAMIC CHIP	0.01uF	50V	CN005	1-784-374-31	CONNECTOR, FFC/FPC 15P		
C676	1-164-947-11	CERAMIC CHIP	0.01uF	50V	CN008	1-794-032-21	PIN, CONNECTOR (PC BOARD) 11P		
C677	1-164-947-11	CERAMIC CHIP	0.01uF	50V	CN009	1-784-368-31	CONNECTOR, FFC/FPC 9P		
C678	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00% 16V	CN010	1-784-382-31	CONNECTOR, FFC/FPC 25P		
					CN101	1-784-367-31	CONNECTOR, FFC/FPC 8P		
C679	1-164-947-11	CERAMIC CHIP	0.01uF	50V					
C680	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00% 16V	* CN103	1-573-768-21	PIN, CONNECTOR (1.5mm) (SMD)5P		
C801	1-164-947-11	CERAMIC CHIP	0.01uF	50V	* CN402	1-573-768-21	PIN, CONNECTOR (1.5mm) (SMD)5P		
C802	1-164-947-11	CERAMIC CHIP	0.01uF	50V	* CN404	1-573-768-21	PIN, CONNECTOR (1.5mm) (SMD)5P		
C804	1-164-947-11	CERAMIC CHIP	0.01uF	50V	CN900	1-784-367-31	CONNECTOR, FFC/FPC 8P		
C808	1-164-947-11	CERAMIC CHIP	0.01uF	50V			< DIODE >		
C812	1-126-209-11	ELECT CHIP	100uF	20.00% 4V					
C814	1-164-947-11	CERAMIC CHIP	0.01uF	50V	D900	8-719-053-18	DIODE 1SR154-400TE-25		
C815	1-164-947-11	CERAMIC CHIP	0.01uF	50V	D901	8-719-053-18	DIODE 1SR154-400TE-25		
C816	1-164-947-11	CERAMIC CHIP	0.01uF	50V	D902	8-719-988-61	DIODE 1SS355TE-17		
					D903	8-719-988-61	DIODE 1SS355TE-17		
C817	1-164-947-11	CERAMIC CHIP	0.01uF	50V	D904	8-719-988-61	DIODE 1SS355TE-17		
C819	1-164-947-11	CERAMIC CHIP	0.01uF	50V			< FERRITE BEAD >		
C820	1-164-947-11	CERAMIC CHIP	0.01uF	50V					
C821	1-164-947-11	CERAMIC CHIP	0.01uF	50V					
C822	1-164-947-11	CERAMIC CHIP	0.01uF	50V	FB001	1-469-324-21	FERRITE 0uH		
					FB003	1-469-324-21	FERRITE 0uH		
C823	1-164-947-11	CERAMIC CHIP	0.01uF	50V	FB005	1-469-324-21	FERRITE 0uH		
C824	1-164-947-11	CERAMIC CHIP	0.01uF	50V	FB006	1-469-324-21	FERRITE 0uH		
C825	1-164-947-11	CERAMIC CHIP	0.01uF	50V	FB007	1-469-324-21	FERRITE 0uH		
C826	1-164-947-11	CERAMIC CHIP	0.01uF	50V					
C827	1-164-947-11	CERAMIC CHIP	0.01uF	50V	FB008	1-469-324-21	FERRITE 0uH		
					FB009	1-469-324-21	FERRITE 0uH		
C828	1-164-947-11	CERAMIC CHIP	0.01uF	50V	FB010	1-469-324-21	FERRITE 0uH		
C829	1-164-947-11	CERAMIC CHIP	0.01uF	50V	FB011	1-469-324-21	FERRITE 0uH		
C830	1-164-947-11	CERAMIC CHIP	0.01uF	50V	FB012	1-469-324-21	FERRITE 0uH		
C831	1-164-947-11	CERAMIC CHIP	0.01uF	50V					
C832	1-164-947-11	CERAMIC CHIP	0.01uF	50V	FB013	1-469-324-21	FERRITE 0uH		
					FB014	1-469-324-21	FERRITE 0uH		
C833	1-164-947-11	CERAMIC CHIP	0.01uF	50V	FB112	1-469-681-21	INDUCTOR 0uH		
C834	1-107-820-11	CERAMIC CHIP	0.1uF	16V	FB603	1-469-324-21	FERRITE 0uH		
C835	1-107-820-11	CERAMIC CHIP	0.1uF	16V	FB605	1-469-324-21	FERRITE 0uH		
C836	1-107-820-11	CERAMIC CHIP	0.1uF	16V					
C837	1-117-370-11	CERAMIC CHIP	10uF	10V	FB901	1-469-324-21	FERRITE 0uH		
C900	1-107-820-11	CERAMIC CHIP	0.1uF	16V			< FILTER >		
C901	1-164-947-11	CERAMIC CHIP	0.01uF	50V					
C902	1-107-820-11	CERAMIC CHIP	0.1uF	16V	FL003	1-234-177-21	FERRITE 0uH		
C905	1-164-930-11	CERAMIC CHIP	330PF	5.00% 16V	FL004	1-234-177-21	FERRITE 0uH		
C906	1-164-930-11	CERAMIC CHIP	330PF	5.00% 16V	FL005	1-233-893-21	FILTER, CHIP EMI		
					FL006	1-234-177-21	FERRITE 0uH		
C907	1-164-937-11	CERAMIC CHIP	0.001uF	10.00% 50V	FL101	1-233-893-21	FILTER, CHIP EMI		
C908	1-164-937-11	CERAMIC CHIP	0.001uF	10.00% 50V					
C909	1-164-222-91	CERAMIC CHIP	0.22uF	25V	FL102	1-233-893-21	FILTER, CHIP EMI		
C910	1-104-905-11	CAPACITOR	0.22F	5.5V	FL103	1-233-893-21	FILTER, CHIP EMI		
C911	1-126-205-11	ELECT CHIP	47uF	20% 6.3V	FL501	1-233-893-21	FILTER, CHIP EMI		
					FL502	1-233-893-21	FILTER, CHIP EMI		
C912	1-126-205-11	ELECT CHIP	47uF	20% 6.3V	FL505	1-234-177-21	FERRITE 0uH		
C913	1-164-947-11	CERAMIC CHIP	0.01uF	50V					
C914	1-164-947-11	CERAMIC CHIP	0.01uF	50V	FL603	1-234-177-21	FERRITE 0uH		
C915	1-164-937-11	CERAMIC CHIP	0.001uF	10.00% 50V	FL604	1-234-177-21	FERRITE 0uH		
C917	1-107-820-11	CERAMIC CHIP	0.1uF	16V	FL605	1-234-177-21	FERRITE 0uH		
					FL606	1-234-177-21	FERRITE 0uH		
C918	1-164-874-11	CERAMIC CHIP	100PF	5.00% 50V	FL801	1-233-893-21	FILTER, CHIP EMI		
		< CONNECTOR >			FL802	1-233-893-21	FILTER, CHIP EMI		
CN001	1-784-371-31	CONNECTOR, FFC/FPC 12P			FL803	1-233-893-21	FILTER, CHIP EMI		
CN002	1-778-957-11	CONNECTOR, FFC/FPC 29P							

Ref. No.	Part No.	Description	Remarks
< IC >			
IC001	8-759-460-72	IC BA033FP-E2	
IC002	8-759-052-52	IC NJM78M05DL1A-TE1	
IC003	8-759-052-52	IC NJM78M05DL1A-TE1	
IC004	8-759-473-95	IC uPC2905T-E1	
IC005	8-759-460-72	IC BA033FP-E2	
IC006	6-700-398-01	IC uPC2918T-E1	
IC101	8-759-640-41	IC BR24C08F-E2	
IC102	6-701-877-01	IC SM8707EV-G-E2	
IC103	8-759-829-75	IC MB91307APFV-G-BND-E1	
IC106	6-700-785-01	IC SN74AHCT32PWR	
IC107	6-801-606-01	IC MR27V3202F-2ETPZ020	
IC302	8-759-828-01	IC CXD9635R	
IC303	8-759-643-10	IC GM71V18160CT-6TR	
IC303	8-759-683-75	IC MSM51V8160F-60TSKR1	
IC303	8-759-567-35	IC MT4LC1M16C3TG-6TR	
IC304	8-759-680-48	IC TC7WH157FK(TE85R)	
IC401	8-759-826-42	IC FAN8034	
IC501	8-759-832-30	IC TK71518ASCL	
IC503	8-752-399-55	IC CXD1932Q	
IC504	6-700-353-01	IC MT48LC1M16A1TG-6STR	
IC505	6-700-353-01	IC MT48LC1M16A1TG-6STR	
IC600	8-759-052-52	IC NJM78M05DL1A-TE1	
IC601	6-701-011-01	IC uPC2910T-E1	
IC602	8-759-560-56	IC PCM1800E/2K	
IC603	8-759-337-40	IC NJM2904V(TE2)	
IC604	6-700-983-01	IC IS61LV6416-15T(ICS1)	
IC605	6-700-798-11	IC uPC2926T-1-E1	
IC606	8-759-825-15	IC LC89056W-E	
IC607	8-759-698-76	IC CXD9617R	
IC608	8-759-825-13	IC PCM1748E/2K	
IC610	8-759-337-40	IC NJM2904V(TE2)	
IC612	6-700-278-01	IC CXD9633Q	
IC801	8-752-407-50	IC CXD2752R	
IC802	8-759-585-52	IC SN74AHC1GU04DBVR	
IC803	6-701-120-01	IC W981616BH-7-EL10	
IC804	8-759-637-50	IC TA48M025F(TE16L)	
IC900	8-759-238-47	IC TC74HCT7007AF(EL)	
IC901	6-801-859-01	IC uPD70F3033AYGF-M43-3BA	
IC902	8-759-828-32	IC PT8300	
IC903	8-759-427-92	IC PST9126NL	
IC904	8-759-326-78	IC PST9140NL	
< JUMPER RESISTOR >			
JW900	1-218-941-81	RES-CHIP 100 5% 1/16W	
JW901	1-218-941-81	RES-CHIP 100 5% 1/16W	
JW902	1-218-941-81	RES-CHIP 100 5% 1/16W	
JW903	1-218-941-11	SHORT 0	
< COIL >			
L600	1-414-754-11	INDUCTOR 10uH	
L601	1-414-754-11	INDUCTOR 10uH	
L602	1-414-754-11	INDUCTOR 10uH	
< TRANSISTOR >			
Q001	8-729-901-00	TRANSISTOR DTC124EKA-T146	
Q002	6-550-220-01	TRANSISTOR 2SB906(TE16L) (AEP,UK)	

Ref. No.	Part No.	Description	Remarks
Q002	8-729-230-27	TRANSISTOR	2SA1213Y-TE12L (MY,SP)
Q900	8-729-027-23	TRANSISTOR	DTA114EKA-T146
Q901	8-729-230-63	TRANSISTOR	2SD1819A-QRS-TX
Q902	8-729-027-23	TRANSISTOR	DTA114EKA-T146
Q903	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L
Q906	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L
Q907	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L
Q908	8-729-901-00	TRANSISTOR	DTC124EKA-T146
Q909	8-729-901-00	TRANSISTOR	DTC124EKA-T146
Q910	8-729-901-00	TRANSISTOR	DTC124EKA-T146
< RESISTOR >			
R001	1-218-990-11	SHORT	0
R002	1-218-990-11	SHORT	0
R003	1-218-990-11	SHORT	0
R004	1-218-990-11	SHORT	0
R005	1-218-990-11	SHORT	0
R006	1-218-990-11	SHORT	0
R007	1-218-990-11	SHORT	0
R008	1-218-990-11	SHORT	0
R009	1-218-953-11	RES-CHIP 1K 5% 1/16W	
R010	1-218-990-11	SHORT	0
R011	1-218-949-11	RES-CHIP 470 5% 1/16W (AEP,UK)	
R011	1-218-953-11	RES-CHIP 1K 5% 1/16W (MY,SP)	
R012	1-218-990-11	SHORT	0
R013	1-218-990-11	SHORT	0
R014	1-218-990-11	SHORT	0
R015	1-218-990-11	SHORT	0
R016	1-218-990-11	SHORT	0
R017	1-218-990-11	SHORT	0
R018	1-218-990-11	SHORT	0
R019	1-218-990-11	SHORT	0
R020	1-218-990-11	SHORT	0
R021	1-218-990-11	SHORT	0
R023	1-218-990-11	SHORT	0
R025	1-218-990-11	SHORT	0
R026	1-218-990-11	SHORT	0
R027	1-218-990-11	SHORT	0
R028	1-218-990-11	SHORT	0
R029	1-218-990-11	SHORT	0
R030	1-218-990-11	SHORT	0
R031	1-218-990-11	SHORT	0
R032	1-218-990-11	SHORT	0
R033	1-218-990-11	SHORT	0
R034	1-218-990-11	SHORT	0
R035	1-218-990-11	SHORT	0
R036	1-218-990-11	SHORT	0
R037	1-218-990-11	SHORT	0
R038	1-218-990-11	SHORT	0
R039	1-218-990-11	SHORT	0
R040	1-218-990-11	SHORT	0
R041	1-218-990-11	SHORT	0
R042	1-218-990-11	SHORT	0
R043	1-218-990-11	SHORT	0
R044	1-218-990-11	SHORT	0
R045	1-218-990-11	SHORT	0

Ref. No.	Part No.	Description	Remarks				Ref. No.	Part No.	Description	Remarks			
R046	1-218-990-11	SHORT	0				R147	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	
R047	1-218-990-11	SHORT	0				R149	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
R048	1-218-990-11	SHORT	0				R150	1-218-967-11	RES-CHIP	15K	5%	1/16W	
R049	1-218-990-11	SHORT	0										(AEP,UK)
R050	1-218-990-11	SHORT	0				R150	1-218-963-11	RES-CHIP	6.8K	5%	1/16W	
R051	1-218-990-11	SHORT	0										(MY,SP)
R052	1-218-990-11	SHORT	0				R151	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
R053	1-218-990-11	SHORT	0				R152	1-218-975-11	RES-CHIP	68K	5%	1/16W	
R055	1-218-990-11	SHORT	0										(AEP,UK)
R058	1-218-990-11	SHORT	0				R153	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
R060	1-216-864-11	METAL CHIP	0	5%	1/16W		R154	1-218-975-11	RES-CHIP	68K	5%	1/16W	
													(AEP,UK)
R063	1-218-990-11	SHORT	0				R154	1-218-971-11	RES-CHIP	33K	5%	1/16W	
R065	1-218-990-11	SHORT	0										(MY,SP)
R068	1-218-990-11	SHORT	0				R155	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
R069	1-218-990-11	SHORT	0				R156	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R070	1-218-990-11	SHORT	0				R157	1-218-990-11	SHORT	0			
							R160	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R075	1-218-990-11	SHORT	0				R161	1-218-990-11	SHORT	0			
R076	1-218-969-11	RES-CHIP	22K	5%	1/16W								
R077	1-218-947-11	RES-CHIP	330	5%	1/16W		R162	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R078	1-218-959-11	RES-CHIP	3.3K	5%	1/16W		R163	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R079	1-208-643-11	RES-CHIP	22	5%	1/16W		R164	1-218-941-81	RES-CHIP	100	5%	1/16W	
							R165	1-218-941-81	RES-CHIP	100	5%	1/16W	
R080	1-218-990-11	SHORT	0				R166	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
R081	1-218-990-11	SHORT	0										
R082	1-218-990-11	SHORT	0				R167	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R101	1-216-298-00	METAL CHIP	2.2	5%	1/10W		R168	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R105	1-218-965-11	RES-CHIP	10K	5%	1/16W		R170	1-218-953-11	RES-CHIP	1K	5%	1/16W	
							R172	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R106	1-218-965-11	RES-CHIP	10K	5%	1/16W		R174	1-208-635-11	METAL CHIP	10	0.5%	1/16W	
R107	1-218-941-81	RES-CHIP	100	5%	1/16W								
R109	1-208-635-11	METAL CHIP	10	0.5%	1/16W		R175	1-218-990-11	SHORT	0			
R111	1-218-949-11	RES-CHIP	470	5%	1/16W		R176	1-208-635-11	METAL CHIP	10	0.5%	1/16W	
R112	1-218-953-11	RES-CHIP	1K	5%	1/16W		R177	1-208-635-11	METAL CHIP	10	0.5%	1/16W	
							R178	1-208-635-11	METAL CHIP	10	0.5%	1/16W	
R113	1-218-965-11	RES-CHIP	10K	5%	1/16W		R179	1-208-635-11	METAL CHIP	10	0.5%	1/16W	
R114	1-208-935-11	METAL CHIP	100K	0.5%	1/16W								
R116	1-218-965-11	RES-CHIP	10K	5%	1/16W		R182	1-208-935-11	METAL CHIP	100K	0.5%	1/16W	
R117	1-218-953-11	RES-CHIP	1K	5%	1/16W		R183	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
R118	1-218-953-11	RES-CHIP	1K	5%	1/16W		R184	1-218-965-11	RES-CHIP	10K	5%	1/16W	
							R185	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R119	1-218-965-11	RES-CHIP	10K	5%	1/16W		R186	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R121	1-218-965-11	RES-CHIP	10K	5%	1/16W								
R122	1-218-965-11	RES-CHIP	10K	5%	1/16W		R187	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	
R123	1-218-965-11	RES-CHIP	10K	5%	1/16W		R188	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R124	1-218-990-11	SHORT CHIP	0 (MY,SP)				R199	1-218-958-11	RES-CHIP	2.7K	5%	1/16W	
							R299	1-218-979-11	RES-CHIP	150K	5%	1/16W	
R125	1-218-990-11	SHORT CHIP	0 (MY,SP)				R301	1-218-959-11	RES-CHIP	3.3K	5%	1/16W	
R126	1-218-990-11	SHORT CHIP	0 (MY,SP)										
R128	1-218-959-11	RES-CHIP	3.3K	5%	1/16W		R302	1-218-959-11	RES-CHIP	3.3K	5%	1/16W	
R129	1-218-965-11	RES-CHIP	10K	5%	1/16W		R305	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
R130	1-218-965-11	RES-CHIP	10K	5%	1/16W		R306	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
							R307	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
R131	1-218-965-11	RES-CHIP	10K	5%	1/16W		R308	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
R132	1-218-965-11	RES-CHIP	10K	5%	1/16W								
R133	1-218-965-11	RES-CHIP	10K	5%	1/16W		R309	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
R134	1-218-965-11	RES-CHIP	10K	5%	1/16W		R310	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
R136	1-208-635-11	METAL CHIP	10	0.5%	1/16W		R311	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
							R312	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
R137	1-208-635-11	METAL CHIP	10	0.5%	1/16W		R313	1-218-949-11	RES-CHIP	470	5%	1/16W	
R138	1-208-635-11	METAL CHIP	10	0.5%	1/16W								
R140	1-208-635-11	METAL CHIP	10	0.5%	1/16W		R314	1-218-949-11	RES-CHIP	470	5%	1/16W	
R143	1-218-965-11	RES-CHIP	10K	5%	1/16W		R315	1-218-949-11	RES-CHIP	470	5%	1/16W	
R145	1-218-965-11	RES-CHIP	10K	5%	1/16W		R316	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
							R317	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R146	1-218-965-11	RES-CHIP	10K	5%	1/16W		R318	1-218-990-11	SHORT	0			

AVD-S10

DVD

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R319	1-218-963-11	RES-CHIP	6.8K	5%	1/16W	R435	1-218-965-11	RES-CHIP	10K	5%	1/16W
R320	1-218-990-11	SHORT	0			R436	1-218-941-81	RES-CHIP	100	5%	1/16W
R321	1-218-949-11	RES-CHIP	470	5%	1/16W	R507	1-218-941-81	RES-CHIP	100	5%	1/16W
R328	1-218-965-11	RES-CHIP	10K	5%	1/16W	R510	1-218-965-11	RES-CHIP	10K	5%	1/16W
R330	1-218-990-11	SHORT	0			R511	1-218-945-11	RES-CHIP	220	5%	1/16W
R331	1-208-643-11	RES-CHIP	22	5%	1/16W	R512	1-218-945-11	RES-CHIP	220	5%	1/16W
R332	1-218-990-11	SHORT	0			R513	1-218-945-11	RES-CHIP	220	5%	1/16W
R334	1-208-707-11	METAL CHIP	10K	0.5%	1/16W	R514	1-218-945-11	RES-CHIP	220	5%	1/16W
R335	1-208-691-11	METAL CHIP	2.2K	0.5%	1/16W	R515	1-218-945-11	RES-CHIP	220	5%	1/16W
R336	1-218-965-11	RES-CHIP	10K	5%	1/16W	R516	1-218-945-11	RES-CHIP	220	5%	1/16W
R337	1-218-941-81	RES-CHIP	100	5%	1/16W	R517	1-218-965-11	RES-CHIP	10K	5%	1/16W
R338	1-208-715-11	METAL CHIP	22K	0.5%	1/16W	R518	1-218-954-11	RES-CHIP	1.2K	5%	1/16W
R341	1-208-707-11	METAL CHIP	10K	0.5%	1/16W	R522	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R342	1-208-719-11	METAL CHIP	33K	0.5%	1/16W	R524	1-218-965-11	RES-CHIP	10K	5%	1/16W
R343	1-218-945-11	METAL CHIP	220	0.5%	1/16W	R525	1-218-965-11	RES-CHIP	10K	5%	1/16W
R344	1-208-683-11	METAL CHIP	1K	0.5%	1/16W	R533	1-208-635-11	METAL CHIP	10	0.5%	1/16W
R345	1-218-965-11	RES-CHIP	10K	5%	1/16W	R554	1-208-635-11	METAL CHIP	10	0.5%	1/16W
R349	1-218-970-11	RES-CHIP	27K	5%	1/16W	R593	1-218-953-11	RES-CHIP	1K	5%	1/16W
R350	1-218-954-11	RES-CHIP	1.2K	5%	1/16W	R596	1-218-953-11	RES-CHIP	1K	5%	1/16W
R351	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	R600	1-218-941-81	RES-CHIP	100	5%	1/16W
R352	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	R602	1-218-989-11	RES-CHIP	1M	5%	1/16W
R356	1-208-689-11	METAL CHIP	1.8K	0.5%	1/16W	R603	1-218-941-81	RES-CHIP	100	5%	1/16W
R368	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R604	1-218-941-81	RES-CHIP	100	5%	1/16W
R384	1-208-635-11	METAL CHIP	10	0.5%	1/16W	R605	1-218-941-81	RES-CHIP	100	5%	1/16W
R385	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R606	1-218-941-81	RES-CHIP	100	5%	1/16W
R402	1-218-965-11	RES-CHIP	10K	5%	1/16W	R607	1-218-941-81	RES-CHIP	100	5%	1/16W
R403	1-218-965-11	RES-CHIP	10K	5%	1/16W	R608	1-218-953-11	RES-CHIP	1K	5%	1/16W
R404	1-218-953-11	RES-CHIP	1K	5%	1/16W	R609	1-218-949-11	RES-CHIP	470	5%	1/16W
R405	1-218-953-11	RES-CHIP	1K	5%	1/16W	R610	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R406	1-218-978-11	RES-CHIP	120K	5%	1/16W	R611	1-218-941-81	RES-CHIP	100	5%	1/16W
R407	1-218-978-11	RES-CHIP	120K	5%	1/16W	R612	1-218-973-11	RES-CHIP	47K	5%	1/16W
R408	1-218-979-11	RES-CHIP	150K	5%	1/16W	R613	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R409	1-218-979-11	RES-CHIP	150K	5%	1/16W	R614	1-218-971-11	RES-CHIP	33K	5%	1/16W
R410	1-218-974-11	RES-CHIP	56K	5%	1/16W	R615	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R411	1-218-974-11	RES-CHIP	56K	5%	1/16W	R616	1-218-962-11	RES-CHIP	5.6K	5%	1/16W
R412	1-218-982-11	RES-CHIP	270K	5%	1/16W	R617	1-218-990-11	SHORT	0		
R413	1-218-965-11	RES-CHIP	10K	5%	1/16W	R618	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R414	1-218-985-11	RES-CHIP	470K	5%	1/16W	R619	1-218-973-11	RES-CHIP	47K	5%	1/16W
R415	1-218-978-11	RES-CHIP	120K	5%	1/16W	R620	1-218-941-81	RES-CHIP	100	5%	1/16W
R416	1-218-987-11	RES-CHIP	680K	5%	1/16W	R621	1-218-941-81	RES-CHIP	100	5%	1/16W
R417	1-218-965-11	RES-CHIP	10K	5%	1/16W	R622	1-218-941-81	RES-CHIP	100	5%	1/16W
R418	1-218-971-11	RES-CHIP	33K	5%	1/16W	R623	1-218-941-81	RES-CHIP	100	5%	1/16W
R419	1-218-971-11	RES-CHIP	33K	5%	1/16W	R624	1-218-941-81	RES-CHIP	100	5%	1/16W
R420	1-218-985-11	RES-CHIP	470K	5%	1/16W	R625	1-218-953-11	RES-CHIP	1K	5%	1/16W
R421	1-218-971-11	RES-CHIP	33K	5%	1/16W	R626	1-218-953-11	RES-CHIP	1K	5%	1/16W
R422	1-218-971-11	RES-CHIP	33K	5%	1/16W	R627	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R423	1-208-719-11	METAL CHIP	33K	0.5%	1/16W	R628	1-218-941-81	RES-CHIP	100	5%	1/16W
R424	1-208-719-11	METAL CHIP	33K	0.5%	1/16W	R629	1-218-941-81	RES-CHIP	100	5%	1/16W
R425	1-208-943-11	METAL CHIP	220K	0.5%	1/16W	R630	1-218-949-11	RES-CHIP	470	5%	1/16W
R426	1-218-985-11	RES-CHIP	470K	5%	1/16W	R631	1-218-941-81	RES-CHIP	100	5%	1/16W
R427	1-208-935-11	METAL CHIP	100K	0.5%	1/16W	R634	1-218-953-11	RES-CHIP	1K	5%	1/16W
R428	1-218-971-11	RES-CHIP	33K	5%	1/16W	R635	1-218-965-11	RES-CHIP	10K	5%	1/16W
R429	1-218-974-11	METAL CHIP	56K	0.5%	1/16W	R636	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R430	1-208-935-11	METAL CHIP	100K	0.5%	1/16W	R637	1-218-941-81	RES-CHIP	100	5%	1/16W
R431	1-218-974-11	METAL CHIP	56K	0.5%	1/16W	R639	1-218-941-81	RES-CHIP	100	5%	1/16W
R432	1-218-965-11	RES-CHIP	10K	5%	1/16W	R640	1-218-941-81	RES-CHIP	100	5%	1/16W
R433	1-218-965-11	RES-CHIP	10K	5%	1/16W	R642	1-218-941-81	RES-CHIP	100	5%	1/16W
R434	1-218-947-11	RES-CHIP	330	5%	1/16W						

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R644	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R812	1-218-965-11	RES-CHIP	10K	5%	1/16W
R645	1-218-965-11	RES-CHIP	10K	5%	1/16W	R813	1-218-965-11	RES-CHIP	10K	5%	1/16W
R646	1-218-961-11	RES-CHIP	4.7K	5%	1/16W						
R647	1-218-941-81	RES-CHIP	100	5%	1/16W	R814	1-218-965-11	RES-CHIP	10K	5%	1/16W
R648	1-218-941-81	RES-CHIP	100	5%	1/16W	R815	1-218-965-11	RES-CHIP	10K	5%	1/16W
						R816	1-218-965-11	RES-CHIP	10K	5%	1/16W
R650	1-218-941-81	RES-CHIP	100	5%	1/16W	R817	1-218-965-11	RES-CHIP	10K	5%	1/16W
R651	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R821	1-218-990-11	SHORT	0		
R652	1-218-961-11	RES-CHIP	4.7K	5%	1/16W						
R653	1-218-941-81	RES-CHIP	100	5%	1/16W	R823	1-218-965-11	RES-CHIP	10K	5%	1/16W
R654	1-218-941-81	RES-CHIP	100	5%	1/16W	R824	1-218-990-11	SHORT	0		
						R825	1-218-990-11	SHORT	0		
R655	1-218-941-81	RES-CHIP	100	5%	1/16W	R826	1-208-643-11	RES-CHIP	22	5%	1/16W
R656	1-218-990-11	SHORT	0			R828	1-218-990-11	SHORT	0		
R657	1-218-941-81	RES-CHIP	100	5%	1/16W						
R658	1-218-941-81	RES-CHIP	100	5%	1/16W	R829	1-218-990-11	SHORT	0		
R659	1-218-935-11	RES-CHIP	33	5%	1/16W	R830	1-218-965-11	RES-CHIP	10K	5%	1/16W
						R831	1-218-990-11	SHORT	0		
R660	1-218-959-11	RES-CHIP	3.3K	5%	1/16W	R832	1-218-990-11	SHORT	0		
R661	1-218-941-81	RES-CHIP	100	5%	1/16W	R833	1-218-990-11	SHORT	0		
R662	1-218-941-81	RES-CHIP	100	5%	1/16W						
R663	1-218-941-81	RES-CHIP	100	5%	1/16W	R834	1-218-990-11	SHORT	0		
R664	1-218-941-81	RES-CHIP	100	5%	1/16W	R835	1-218-990-11	SHORT	0		
						R836	1-218-990-11	SHORT	0		
R665	1-218-965-11	RES-CHIP	10K	5%	1/16W	R837	1-218-990-11	SHORT	0		
R666	1-218-941-81	RES-CHIP	100	5%	1/16W	R838	1-218-990-11	SHORT	0		
R667	1-218-941-81	RES-CHIP	100	5%	1/16W						
R668	1-218-953-11	RES-CHIP	1K	5%	1/16W	R839	1-218-990-11	SHORT	0		
R669	1-218-953-11	RES-CHIP	1K	5%	1/16W	R840	1-218-990-11	SHORT	0		
						R841	1-218-990-11	SHORT	0		
R671	1-218-941-81	RES-CHIP	100	5%	1/16W	R842	1-218-990-11	SHORT	0		
R672	1-218-941-81	RES-CHIP	100	5%	1/16W	R843	1-218-990-11	SHORT	0		
R673	1-218-945-11	RES-CHIP	220	5%	1/16W						
R674	1-218-945-11	RES-CHIP	220	5%	1/16W	R844	1-218-965-11	RES-CHIP	10K	5%	1/16W
R675	1-218-945-11	RES-CHIP	220	5%	1/16W	R845	1-218-965-11	RES-CHIP	10K	5%	1/16W
						R846	1-218-990-11	SHORT	0		
R676	1-218-945-11	RES-CHIP	220	5%	1/16W	R847	1-218-990-11	SHORT	0		
R677	1-218-945-11	RES-CHIP	220	5%	1/16W	R848	1-218-990-11	SHORT	0		
R679	1-218-941-81	RES-CHIP	100	5%	1/16W						
R680	1-218-941-81	RES-CHIP	100	5%	1/16W	R900	1-218-941-81	RES-CHIP	100	5%	1/16W
R682	1-218-965-11	RES-CHIP	10K	5%	1/16W	R901	1-218-941-81	RES-CHIP	100	5%	1/16W
						R902	1-218-941-81	RES-CHIP	100	5%	1/16W
R684	1-218-965-11	RES-CHIP	10K	5%	1/16W	R903	1-218-941-81	RES-CHIP	100	5%	1/16W
R685	1-218-941-81	RES-CHIP	100	5%	1/16W	R904	1-218-941-81	RES-CHIP	100	5%	1/16W
R686	1-218-965-11	RES-CHIP	10K	5%	1/16W						
R687	1-218-953-11	RES-CHIP	1K	5%	1/16W	R905	1-218-941-81	RES-CHIP	100	5%	1/16W
R688	1-218-965-11	RES-CHIP	10K	5%	1/16W	R908	1-218-965-11	RES-CHIP	10K	5%	1/16W
						R909	1-218-965-11	RES-CHIP	10K	5%	1/16W
R689	1-218-965-11	RES-CHIP	10K	5%	1/16W	R910	1-218-941-81	RES-CHIP	100	5%	1/16W
R692	1-218-941-81	RES-CHIP	100	5%	1/16W	R911	1-218-941-81	RES-CHIP	100	5%	1/16W
R695	1-218-941-81	RES-CHIP	100	5%	1/16W						
R696	1-218-945-11	RES-CHIP	220	5%	1/16W	R912	1-218-941-81	RES-CHIP	100	5%	1/16W
R699	1-218-941-81	RES-CHIP	100	5%	1/16W	R913	1-218-941-81	RES-CHIP	100	5%	1/16W
						R914	1-218-941-81	RES-CHIP	100	5%	1/16W
R700	1-218-965-11	RES-CHIP	10K	5%	1/16W	R915	1-218-941-81	RES-CHIP	100	5%	1/16W
R701	1-218-953-11	RES-CHIP	1K	5%	1/16W	R916	1-218-941-81	RES-CHIP	100	5%	1/16W
R702	1-218-945-11	RES-CHIP	220	5%	1/16W						
R801	1-218-990-11	SHORT	0			R919	1-218-965-11	RES-CHIP	10K	5%	1/16W
R802	1-218-990-11	SHORT	0			R920	1-218-941-81	RES-CHIP	100	5%	1/16W
						R921	1-218-941-81	RES-CHIP	100	5%	1/16W
R803	1-218-990-11	SHORT	0			R922	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R804	1-218-990-11	SHORT	0			R924	1-218-965-11	RES-CHIP	10K	5%	1/16W
R805	1-218-990-11	SHORT	0								
R806	1-218-990-11	SHORT	0			R928	1-218-941-81	RES-CHIP	100	5%	1/16W
R807	1-218-990-11	SHORT	0			R929	1-218-989-11	RES-CHIP	1M	5%	1/16W
						R930	1-218-965-11	RES-CHIP	10K	5%	1/16W
R808	1-218-990-11	SHORT	0			R931	1-218-945-11	RES-CHIP	220	5%	1/16W
R810	1-218-965-11	RES-CHIP	10K	5%	1/16W	R932	1-218-965-11	RES-CHIP	10K	5%	1/16W
R811	1-218-965-11	RES-CHIP	10K	5%	1/16W						

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Ref. No.	Part No.	Description			Remarks
R934	1-218-965-11	RES-CHIP	10K	5%	1/16W
R935	1-218-965-11	RES-CHIP	10K	5%	1/16W (MY,SP)
R936	1-218-965-11	RES-CHIP	10K	5%	1/16W (AEP,UK)
R937	1-218-965-11	RES-CHIP	10K	5%	1/16W (AEP,UK)
R938	1-218-965-11	RES-CHIP	10K	5%	1/16W (MY,SP)
R939	1-218-965-11	RES-CHIP	10K	5%	1/16W (MY,SP)
R940	1-218-965-11	RES-CHIP	10K	5%	1/16W (AEP,UK)
R941	1-218-965-11	RES-CHIP	10K	5%	1/16W
R942	1-218-965-11	RES-CHIP	10K	5%	1/16W
R943	1-218-965-11	RES-CHIP	10K	5%	1/16W
R944	1-218-965-11	RES-CHIP	10K	5%	1/16W
R945	1-218-965-11	RES-CHIP	10K	5%	1/16W
R946	1-218-965-11	RES-CHIP	10K	5%	1/16W
R947	1-218-965-11	RES-CHIP	10K	5%	1/16W
R948	1-218-965-11	RES-CHIP	10K	5%	1/16W
R949	1-218-965-11	RES-CHIP	10K	5%	1/16W
R950	1-218-973-11	RES-CHIP	47K	5%	1/16W
R952	1-218-965-11	RES-CHIP	10K	5%	1/16W
R953	1-218-965-11	RES-CHIP	10K	5%	1/16W
R954	1-218-965-11	RES-CHIP	10K	5%	1/16W
R955	1-218-965-11	RES-CHIP	10K	5%	1/16W
R956	1-218-965-11	RES-CHIP	10K	5%	1/16W
R957	1-218-965-11	RES-CHIP	10K	5%	1/16W
R959	1-218-953-11	RES-CHIP	1K	5%	1/16W
R960	1-218-965-11	RES-CHIP	10K	5%	1/16W
R961	1-218-965-11	RES-CHIP	10K	5%	1/16W
R962	1-218-965-11	RES-CHIP	10K	5%	1/16W
R963	1-218-965-11	RES-CHIP	10K	5%	1/16W
R964	1-218-973-11	RES-CHIP	47K	5%	1/16W
R965	1-218-965-11	RES-CHIP	10K	5%	1/16W
R967	1-218-941-81	RES-CHIP	100	5%	1/16W
R968	1-218-941-81	RES-CHIP	100	5%	1/16W
R969	1-218-941-81	RES-CHIP	100	5%	1/16W
R970	1-218-941-81	RES-CHIP	100	5%	1/16W
R971	1-218-941-81	RES-CHIP	100	5%	1/16W
R972	1-218-965-11	RES-CHIP	10K	5%	1/16W
R974	1-218-990-11	SHORT	0		
R977	1-218-965-11	RES-CHIP	10K	5%	1/16W
R980	1-218-965-11	RES-CHIP	10K	5%	1/16W
R982	1-218-965-11	RES-CHIP	10K	5%	1/16W
R983	1-218-965-11	RES-CHIP	10K	5%	1/16W
R984	1-218-965-11	RES-CHIP	10K	5%	1/16W
R985	1-218-985-11	RES-CHIP	470K	5%	1/16W
R986	1-218-973-11	RES-CHIP	47K	5%	1/16W
R987	1-218-973-11	RES-CHIP	47K	5%	1/16W
R988	1-218-990-11	SHORT	0		
R989	1-218-990-11	SHORT	0		
R990	1-218-965-11	RES-CHIP	10K	5%	1/16W
R991	1-218-965-11	RES-CHIP	10K	5%	1/16W
R992	1-218-965-11	RES-CHIP	10K	5%	1/16W
< VARIABLE RESISTOR >					
RV501	1-223-583-11	RES, ADJ, CARBON 1K			

Ref. No.	Part No.	Description	Remarks		
< VIBRATOR >					
X101	1-795-174-11	VIBRATOR, CERAMIC 16.5MHz			
X102	1-795-630-11	VIBRATOR, CRYSTAL 29MHz			
X600	1-795-126-21	VIBRATOR, CRYSTAL 12.288MHz			
X601	1-795-363-21	VIBRATOR, CERAMIC 13.59MHz			
X901	1-767-922-11	VIBRATOR, CERAMIC 16MHz			

	A-4676-597-A	FL BOARD, COMPLETE			

	4-234-908-01	HOLDER (FL)			
< CAPACITOR >					
C812	1-128-551-11	ELECT	22uF	20.00%	25V
C813	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C814	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C815	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C816	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C817	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C818	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C819	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C820	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C821	1-126-964-11	ELECT	10uF	20.00%	50V
C822	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C823	1-126-964-11	ELECT	10uF	20.00%	50V
C826	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
< CONNECTOR >					
CN801	1-784-213-11	CONNECTOR,FFC(LIF(NON-ZIF))15P			
CN802	1-506-481-11	PIN, CONNECTOR 2P			
* CN804	1-568-944-11	PIN, CONNECTOR 6P			
* CN813	1-568-941-11	PIN, CONNECTOR 3P			
< DIODE >					
D806	8-719-988-61	DIODE 1SS355TE-17			
D807	8-719-988-61	DIODE 1SS355TE-17			
D808	8-719-988-61	DIODE 1SS355TE-17			
D809	8-719-988-61	DIODE 1SS355TE-17			
D810	8-719-069-56	DIODE UDZSTE-176.2B			
< FERRITE BEAD >					
FB800	1-414-813-11	FERRITE	0uH		
FB801	1-414-813-11	FERRITE	0uH		
FB802	1-414-813-11	FERRITE	0uH		
< FLUORESCENT INDICATOR TUBE >					
FL801	1-518-767-21	INDICATOR TUBE, FLUORESCENT			
< IC >					
IC802	6-700-112-01	IC MSM9202-05GS-KDR1			
< COIL >					
L801	1-412-959-11	INDUCTOR	47uH		
< TRANSISTOR >					
Q801	8-729-602-36	TRANSISTOR	2SA1602TP-1EF		
Q803	8-729-808-42	TRANSISTOR	2SD1624-T-TD		

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IO

LOADING

POWER

Ref. No.	Part No.	Description	Remarks
R696	1-216-813-11	METAL CHIP 220 5% 1/16W	
R697	1-216-813-11	METAL CHIP 220 5% 1/16W	
R698	1-216-813-11	METAL CHIP 220 5% 1/16W	
R699	1-216-813-11	METAL CHIP 220 5% 1/16W	
< VIBRATOR >			
X671	1-579-242-41	VIBRATOR, CRYSTAL 4.332MHz (AEP,UK)	

	1-676-599-11	LOADING BOARD	

< CONNECTOR >			
* CN1	1-568-943-11	PIN, CONNECTOR 5P	
< SWITCH >			
S1	1-771-799-11	SWITCH, LEVER SLIDE (LEAF SW)	

	A-4676-604-A	POWER BOARD, COMPLETE (AEP,UK)	
	A-4729-929-A	POWER BOARD, COMPLETE (MY,SP)	

	7-685-548-14	SCREW +BTP 3X12 TYPE2 N-S	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
< CAPACITOR >			
△ C901	1-117-699-11	CERAMIC 0.001uF 99% 250V (AEP,UK)	
△ C902	1-165-528-11	MYLAR 0.1uF 10% 275V	
△ C903	1-162-290-31	CERAMIC 470PF 10% 50V	
△ C904	1-165-528-11	MYLAR 0.1uF 10% 275V	
△ C905	1-113-915-11	CERAMIC 0.001uF 20.00% 250V	
△ C906	1-113-915-11	CERAMIC 0.001uF 20.00% 250V	
△ C907	1-115-340-11	CERAMIC CHIP 0.22uF 10.00% 25V	
△ C908	1-113-915-11	CERAMIC 0.001uF 20.00% 250V	
△ C909	1-113-915-11	CERAMIC 0.001uF 20.00% 250V (AEP,UK)	
△ C909	1-113-920-11	CERAMIC 0.0022uF 20.00% 250V (MY,SP)	
△ C910	1-113-915-11	CERAMIC 0.001uF 20.00% 250V (AEP,UK)	
△ C910	1-113-920-11	CERAMIC 0.0022uF 20.00% 250V (MY,SP)	
△ C911	1-113-915-11	CERAMIC 0.001uF 20.00% 250V (AEP,UK)	
△ C911	1-113-920-11	CERAMIC 0.0022uF 20.00% 250V (MY,SP)	
△ C912	1-165-911-21	ELECT 390uF 20% 450V	
△ C913	1-117-452-11	FILM 3300PF 5.00% 630V	
△ C914	1-126-967-11	ELECT 47uF 20.00% 50V	
△ C915	1-162-292-31	CERAMIC 680PF 10% 50V	
△ C916	1-125-772-51	CERAMIC 1500PF 10.00% 2KV	
C918	1-115-339-11	CERAMIC CHIP 0.1uF 10.00% 50V	
C919	1-115-789-11	ELECT 1000uF 20.00% 25V	
C920	1-117-454-11	FILM 4700PF 5.00% 630V	
C921	1-115-819-11	ELECT 2200uF 20.00% 35V	
C922	1-128-560-11	ELECT 22uF 20.00% 100V	
C923	1-115-819-11	ELECT 2200uF 20.00% 35V	
C924	1-126-953-11	ELECT 2200uF 20.00% 35V	

Ref. No.	Part No.	Description	Remarks
C925	1-126-160-11	ELECT 1uF 20% 50V	
C926	1-115-339-11	CERAMIC CHIP 0.1uF 10.00% 50V	
C927	1-115-339-11	CERAMIC CHIP 0.1uF 10.00% 50V	
C928	1-126-926-11	ELECT 1000uF 20.00% 10V	
C929	1-124-584-00	ELECT 100uF 20% 10V	
C930	1-115-339-11	CERAMIC CHIP 0.1uF 10.00% 50V	
C931	1-126-916-11	ELECT 1000uF 20.00% 6.3V	
C932	1-115-339-11	CERAMIC CHIP 0.1uF 10.00% 50V	
C933	1-126-768-11	ELECT 2200uF 20.00% 16V	
C936	1-163-809-11	CERAMIC CHIP 0.047uF 10% 25V	
< CONNECTOR >			
CN901	1-564-321-00	PIN, CONNECTOR(3.96MM PITCH)2P	
* CN902	1-564-321-21	PIN, CONNECTOR(3.96MM PITCH)2P	
* CN904	1-564-778-11	PLUG, CONNECTOR (2.5MM) 4P	
< DIODE >			
△ D901	8-719-210-21	DIODE 11EQS04-TA1B	
△ D902	8-719-312-05	DIODE RBV-606	
△ D903	8-719-010-98	DIODE MTZJ-T-77-22A	
△ D904	8-719-110-61	DIODE MTZJ-T-77-24A	
△ D905	8-719-200-91	DIODE 11EQS10-TA1	
△ D906	8-719-200-91	DIODE 11EQS10-TA1	
△ D907	8-719-200-91	DIODE 11EQS10-TA1	
D908	8-719-080-26	DIODE SARS01V0	
D909	8-719-079-46	DIODE FMB-G16L	
D910	8-719-200-91	DIODE 11EQS10-TA1	
D911	8-719-313-14	DIODE FML-22S	
D912	8-719-110-42	DIODE MTZJ-T-77-15C	
D913	8-719-404-50	DIODE MA111-TX	
D914	8-719-210-21	DIODE 11EQS04-TA1B	
D915	8-719-404-50	DIODE MA111-TX	
D916	8-719-210-21	DIODE 11EQS04-TA1B	
D917	8-719-200-82	DIODE 11ES2-NTA1B	
D918	8-719-404-50	DIODE MA111-TX	
< GROUND TERMINAL >			
EB901	1-537-770-21	TERMINAL BOARD, GROUND	
EB902	1-537-770-21	TERMINAL BOARD, GROUND	
< FERRITE BEAD >			
△ FB901	1-412-473-21	INDUCTOR 0UH	
< FUSE HOLDER >			
FH901	1-533-313-11	HOLDER, FUSE	
FH902	1-533-313-11	HOLDER, FUSE	
< IC >			
△ IC901	8-749-017-79	IC STR-F6676	
IC902	6-700-388-01	IC SE-B2	
IC903	6-700-812-01	IC SI-8050JF	
IC904	8-759-332-29	IC M51945BL	
IC905	8-759-231-53	IC TA7805S	
IC906	6-700-813-01	IC SI-8033JF	
IC907	8-759-390-72	IC TC4S584F(TE85R)	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

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POWER

REMOCON

RF-240

Ref. No.	Part No.	Description	Remarks
< COIL >			
L901	1-424-860-11	INDUCTOR 10uH	
L902	1-419-253-11	INDUCTOR 100uH	
L903	1-419-253-11	INDUCTOR 100uH	
L904	1-414-398-11	INDUCTOR 10uH	
L905	1-414-398-11	INDUCTOR 10uH	
L906	1-414-398-11	INDUCTOR 10uH	
L907	1-414-398-11	INDUCTOR 10uH	
L908	1-414-398-11	INDUCTOR 10uH	
< LINE FILTER >			
△ LF901	1-424-930-11	COIL, LINE FILTER	
△ LF902	1-424-930-11	COIL, LINE FILTER	
< IC >			
△ PC901	8-749-019-04	IC TLP421	
△ PC902	8-749-019-04	IC TLP421	
< TRANSISTOR >			
Q901	8-729-119-76	TRANSISTOR 2SA1175TP-HFE	
Q902	8-729-140-04	TRANSISTOR 2SB1116A-TP-LK	
Q903	8-729-111-29	TRANSISTOR 2SD1616A-TP-LK	
Q905	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q906	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q907	8-729-030-19	TRANSISTOR 2SB1640(TP)	
Q908	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q909	8-729-027-49	TRANSISTOR DTC123EKA-T146	
Q910	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q911	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q915	8-729-900-53	TRANSISTOR DTC114EKA-T146	
< RESISTOR >			
△ R901	1-249-415-11	CARBON 680 5% 1/4W F	
△ R902	1-216-361-31	METAL OXIDE 0.22 5% 2W	
△ R903	1-245-266-31	METAL OXIDE 0.24 5% 2W	
△ R904	1-247-881-00	CARBON 120K 5% 1/4W	
△ R905	1-249-439-11	CARBON 68K 5% 1/4W	
△ R906	1-249-424-11	CARBON 3.9K 5% 1/4W F	
△ R907	1-249-425-11	CARBON 4.7K 5% 1/4W F	
△ R908	1-215-904-11	METAL OXIDE 100K 5% 2W	
△ R909	1-260-132-11	CARBON 560K 5% 1/2W	
△ R910	1-215-884-31	METAL OXIDE 47 5% 2W	
△ R911	1-249-425-11	CARBON 4.7K 5% 1/4W F	
△ R912	1-249-426-11	CARBON 5.6K 5% 1/4W	
△ R913	1-249-399-11	CARBON 33 5% 1/4W F	
R914	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
R915	1-216-826-11	METAL CHIP 2.7K 5% 1/16W	
R916	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R917	1-249-422-11	CARBON 2.7K 5% 1/4W F	
△ R918	1-215-884-31	METAL OXIDE 47 5% 2W	
R919	1-215-433-00	METAL 3.3K 1% 1/4W	
R920	1-215-457-00	METAL 33K 1% 1/4W	
R921	1-216-847-11	METAL CHIP 150K 5% 1/16W	
R922	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R923	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R924	1-216-818-11	METAL CHIP 560 5% 1/16W	
R925	1-216-812-11	METAL CHIP 180 5% 1/16W	

Ref. No.	Part No.	Description			Remarks
R926	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R927	1-215-865-31	METAL OXIDE	220	5%	1W
R928	1-216-841-11	METAL CHIP	47K	5%	1/16W
R929	1-216-809-11	METAL CHIP	100	5%	1/16W
R930	1-219-237-11	SOLID	3.3M	20%	1/2W
R931	1-247-791-91	CARBON	22	5%	1/4W
R932	1-216-848-11	METAL CHIP	180K	5%	1/16W
R933	1-216-841-11	METAL CHIP	47K	5%	1/16W
R934	1-216-837-11	METAL CHIP	22K	5%	1/16W
< TRANSFORMER >					
△ T901	1-437-415-11	TRANSFORMER, POWER			
< THERMISTOR >					
△ TH901	1-803-916-11	THERMISTOR, NTC			

	1-683-235-11	REMOCON BOARD			

< CAPACITOR >					
C808	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C809	1-126-153-11	ELECT	22uF	20%	6.3V
< IC >					
IC800	8-759-827-69	IC NJL63H400A-1 (B)			
< RESISTOR >					
R815	1-216-805-11	METAL CHIP	47	5%	1/16W

A-4726-850-A	RF-240 BOARD, COMPLETE				

< CAPACITOR >					
C001	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C002	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C005	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C006	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C007	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C008	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C009	1-124-779-00	ELECT CHIP	10uF	20%	16V
C015	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C016	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C017	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C018	1-115-416-11	CERAMIC CHIP	0.001uF	5.00%	25V
C019	1-164-739-11	CERAMIC CHIP	560PF	5.00%	50V
C021	1-124-779-00	ELECT CHIP	10uF	20%	16V
C022	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C023	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C024	1-115-416-11	CERAMIC CHIP	0.001uF	5.00%	25V
C025	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C026	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C027	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C028	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C031	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C032	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C033	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C034	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C702	1-126-926-11	ELECT	1000uF	20.00%	10V
C035	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V						(AEP,UK)
C036	1-165-176-11	CERAMIC CHIP	0.047uF	10.00%	16V	C703	1-126-926-11	ELECT	1000uF	20.00%	10V
C038	1-165-176-11	CERAMIC CHIP	0.047uF	10.00%	16V						(AEP,UK)
C039	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C704	1-126-926-11	ELECT	1000uF	20.00%	10V
C040	1-164-217-11	CERAMIC CHIP	150PF	5.00%	50V						(AEP,UK)
C043	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	C705	1-126-964-11	ELECT	10uF	20.00%	50V
											(AEP,UK)
C044	1-124-779-00	ELECT CHIP	10uF	20%	16V	C706	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V
C046	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						(AEP,UK)
C047	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	C707	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V
C048	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						(AEP,UK)
< CONNECTOR >						C708	1-126-964-11	ELECT	10uF	20.00%	50V
CN001	1-766-835-21	CONNECTOR, FFC/FPC (ZIF) 26P									(AEP,UK)
CN002	1-784-875-21	CONNECTOR,FFC(LIF(NON-ZIF))25P				C709	1-126-964-11	ELECT	10uF	20.00%	50V
											(AEP,UK)
< DIODE >						C710	1-126-964-11	ELECT	10uF	20.00%	50V
D001	8-719-988-61	DIODE 1SS355TE-17									(AEP,UK)
D004	8-719-988-61	DIODE 1SS355TE-17				C711	1-162-918-11	CERAMIC CHIP	18PF	5.00%	50V
											(AEP,UK)
< IC >						C712	1-162-918-11	CERAMIC CHIP	18PF	5.00%	50V
IC001	8-759-828-02	IC SP3728AC									(AEP,UK)
						C713	1-162-918-11	CERAMIC CHIP	18PF	5.00%	50V
< COIL >											(AEP,UK)
L001	1-412-031-11	INDUCTOR CHIP	47uH			C714	1-162-918-11	CERAMIC CHIP	18PF	5.00%	50V
L002	1-412-031-11	INDUCTOR CHIP	47uH								(AEP,UK)
						C715	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
< TRANSISTOR >											(AEP,UK)
Q001	8-729-903-46	TRANSISTOR	2SB1132-T100-QR			C716	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
Q002	8-729-903-46	TRANSISTOR	2SB1132-T100-QR								(AEP,UK)
						C717	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
< RESISTOR >											(AEP,UK)
R002	1-216-809-11	METAL CHIP	100	5%	1/16W	C718	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
R003	1-216-809-11	METAL CHIP	100	5%	1/16W						(AEP,UK)
R005	1-216-845-11	METAL CHIP	100K	5%	1/16W	C719	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R006	1-216-838-11	METAL CHIP	27K	5%	1/16W						(AEP,UK)
R007	1-216-803-11	METAL CHIP	33	5%	1/16W	C720	1-126-933-11	ELECT	100uF	20.00%	16V
											(AEP,UK)
R008	1-216-803-11	METAL CHIP	33	5%	1/16W	C721	1-126-933-11	ELECT	100uF	20.00%	16V
R009	1-216-821-11	METAL CHIP	1K	5%	1/16W						(AEP,UK)
R010	1-216-841-11	METAL CHIP	47K	5%	1/16W	C722	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R011	1-216-809-11	METAL CHIP	100	5%	1/16W						(AEP,UK)
R020	1-216-803-11	METAL CHIP	33	5%	1/16W	C723	1-126-933-11	ELECT	100uF	20.00%	16V
											(AEP,UK)
R023	1-216-803-11	METAL CHIP	33	5%	1/16W	C724	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R025	1-216-841-11	METAL CHIP	47K	5%	1/16W						(AEP,UK)
R029	1-216-809-11	METAL CHIP	100	5%	1/16W	C725	1-162-971-11	CERAMIC CHIP	0.001uF	10.00%	50V
R037	1-216-834-11	METAL CHIP	12K	5%	1/16W						(AEP,UK)
R038	1-216-861-11	METAL CHIP	2.2M	5%	1/16W	C726	1-162-971-11	CERAMIC CHIP	0.001uF	10.00%	50V
											(AEP,UK)
R045	1-216-809-11	METAL CHIP	100	5%	1/16W	C727	1-162-971-11	CERAMIC CHIP	0.001uF	10.00%	50V
*****											(AEP,UK)
A-4676-612-A SCART BOARD, COMPLETE (AEP,UK)						C728	1-126-933-11	ELECT	100uF	20.00%	16V
*****											(AEP,UK)
< CAPACITOR >						C729	1-126-960-11	ELECT	1uF	20.00%	50V
C701	1-126-926-11	ELECT	1000uF	20.00%	10V						(AEP,UK)
					(AEP,UK)	C730	1-126-960-11	ELECT	1uF	20.00%	50V
											(AEP,UK)
< CONNECTOR >						< CONNECTOR >					
CN700	1-793-600-11	CONNECTOR, FFC/FPC (ZIF) 17P (AEP,UK)									
* CN701	1-568-946-11	PIN, CONNECTOR 8P (AEP,UK)									

SCART

Ref. No.	Part No.	Description	Remarks
< DIODE >			
D701	8-719-404-50	DIODE MA111-TX (AEP,UK)	
D702	8-719-404-50	DIODE MA111-TX (AEP,UK)	
D703	8-719-404-50	DIODE MA111-TX (AEP,UK)	
D704	8-719-404-50	DIODE MA111-TX (AEP,UK)	
D705	8-719-404-50	DIODE MA111-TX (AEP,UK)	
D706	8-719-404-50	DIODE MA111-TX (AEP,UK)	
< IC >			
IC701	8-759-826-47	IC LA73052-TLM (AEP,UK)	
IC703	8-759-646-52	IC KIA7805API (AEP,UK)	
< JACK >			
J701	1-816-044-11	CONNECTOR, SQUARE TYPE 21P (OUTPUT (TO TV)) (AEP,UK)	
J702	1-816-044-11	CONNECTOR, SQUARE TYPE 21P (INPUT (FROM VIDEO)) (AEP,UK)	
< COIL >			
L701	1-412-953-11	INDUCTOR 15uH (AEP,UK)	
L702	1-412-953-11	INDUCTOR 15uH (AEP,UK)	
L703	1-412-953-11	INDUCTOR 15uH (AEP,UK)	
L704	1-412-953-11	INDUCTOR 15uH (AEP,UK)	
< TRANSISTOR >			
Q701	8-729-119-78	TRANSISTOR 2SC2785TP-HFE (AEP,UK)	
Q702	8-729-119-78	TRANSISTOR 2SC2785TP-HFE (AEP,UK)	
Q703	8-729-119-78	TRANSISTOR 2SC2785TP-HFE (AEP,UK)	
Q704	8-729-119-78	TRANSISTOR 2SC2785TP-HFE (AEP,UK)	
Q705	8-729-027-23	TRANSISTOR DTA114EKA-T146 (AEP,UK)	
Q706	8-729-027-23	TRANSISTOR DTA114EKA-T146 (AEP,UK)	
Q707	1-801-806-11	TRANSISTOR DTC144EKA-T146 (AEP,UK)	
Q708	1-801-806-11	TRANSISTOR DTC144EKA-T146 (AEP,UK)	
Q709	8-729-027-23	TRANSISTOR DTA114EKA-T146 (AEP,UK)	
Q710	1-801-806-11	TRANSISTOR DTC144EKA-T146 (AEP,UK)	
Q711	1-801-806-11	TRANSISTOR DTC144EKA-T146 (AEP,UK)	
Q712	8-729-027-23	TRANSISTOR DTA114EKA-T146 (AEP,UK)	
Q713	8-729-422-29	TRANSISTOR 2SD601A-R-TX (AEP,UK)	
Q714	1-801-806-11	TRANSISTOR DTC144EKA-T146 (AEP,UK)	
< RESISTOR >			
R701	1-216-829-11	METAL CHIP 4.7K 5%	1/16W (AEP,UK)
R702	1-216-829-11	METAL CHIP 4.7K 5%	1/16W (AEP,UK)
R703	1-216-829-11	METAL CHIP 4.7K 5%	1/16W (AEP,UK)
R704	1-216-829-11	METAL CHIP 4.7K 5%	1/16W (AEP,UK)
R705	1-216-833-11	METAL CHIP 10K 5%	1/16W (AEP,UK)
R706	1-216-833-11	METAL CHIP 10K 5%	1/16W (AEP,UK)
R707	1-216-833-11	METAL CHIP 10K 5%	1/16W (AEP,UK)
R708	1-216-833-11	METAL CHIP 10K 5%	1/16W (AEP,UK)
R709	1-218-285-11	RES-CHIP 75 5%	1/10W (AEP,UK)

Ref. No.	Part No.	Description			Remarks
R710	1-218-285-11	RES-CHIP	75	5%	1/10W (AEP,UK)
R711	1-218-285-11	RES-CHIP	75	5%	1/10W (AEP,UK)
R712	1-218-285-11	RES-CHIP	75	5%	1/10W (AEP,UK)
R713	1-216-825-11	METAL CHIP	2.2K	5%	1/16W (AEP,UK)
R714	1-216-825-11	METAL CHIP	2.2K	5%	1/16W (AEP,UK)
R715	1-216-825-11	METAL CHIP	2.2K	5%	1/16W (AEP,UK)
R716	1-216-821-11	METAL CHIP	1K	5%	1/16W (AEP,UK)
R717	1-216-815-11	METAL CHIP	330	5%	1/16W (AEP,UK)
R718	1-216-815-11	METAL CHIP	330	5%	1/16W (AEP,UK)
R719	1-216-815-11	METAL CHIP	330	5%	1/16W (AEP,UK)
R720	1-216-815-11	METAL CHIP	330	5%	1/16W (AEP,UK)
R721	1-216-841-11	METAL CHIP	47K	5%	1/16W (AEP,UK)
R722	1-216-849-11	METAL CHIP	220K	5%	1/16W (AEP,UK)
R723	1-218-289-11	RES-CHIP	510	5%	1/10W (AEP,UK)
R724	1-218-289-11	RES-CHIP	510	5%	1/10W (AEP,UK)
R725	1-218-289-11	RES-CHIP	510	5%	1/10W (AEP,UK)
R726	1-218-289-11	RES-CHIP	510	5%	1/10W (AEP,UK)
R727	1-218-867-11	RES-CHIP	6.8K	5%	1/10W (AEP,UK)
R728	1-218-867-11	RES-CHIP	6.8K	5%	1/10W (AEP,UK)
R730	1-216-833-11	METAL CHIP	10K	5%	1/16W (AEP,UK)
R731	1-216-841-11	METAL CHIP	47K	5%	1/16W (AEP,UK)
R732	1-216-841-11	METAL CHIP	47K	5%	1/16W (AEP,UK)
R733	1-216-841-11	METAL CHIP	47K	5%	1/16W (AEP,UK)
R734	1-216-841-11	METAL CHIP	47K	5%	1/16W (AEP,UK)
< RELAY >					
RY701	1-515-614-11	RELAY (AEP,UK)			
RY702	1-515-614-11	RELAY (AEP,UK)			
RY703	1-515-614-11	RELAY (AEP,UK)			
RY704	1-515-614-11	RELAY (AEP,UK)			

STBY

SW

VIDEO

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
	1-683-237-11	STBY BOARD *****				C703	1-162-923-11	CERAMIC CHIP	47PF	5%	50V (MY,SP)
		< DIODE >				C704	1-162-923-11	CERAMIC CHIP	47PF	5%	50V (MY,SP)
D812	8-719-059-98	DIODE SLR-342VCTB7 (STANDBY)				C705	1-126-933-11	ELECT	100uF	20.00%	16V (MY,SP)
		< RESISTOR >				C706	1-126-933-11	ELECT	100uF	20.00%	16V (MY,SP)
R804	1-216-820-11	METAL CHIP 820 5% 1/16W				C707	1-164-156-11	CERAMIC CHIP	0.1uF		25V (MY,SP)
		< SWITCH >				C709	1-164-156-11	CERAMIC CHIP	0.1uF		25V (MY,SP)
SW901	1-786-303-11	SWITCH, PUSH (1 KEY) (STANDBY)				C711	1-164-156-11	CERAMIC CHIP	0.1uF		25V (MY,SP)

	1-683-234-11	SW BOARD *****				C712	1-126-933-11	ELECT	100uF	20.00%	16V (MY,SP)
		< CAPACITOR >				C713	1-126-933-11	ELECT	100uF	20.00%	16V (MY,SP)
C800	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V				C714	1-164-156-11	CERAMIC CHIP	0.1uF		25V (MY,SP)
C801	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V				C715	1-164-156-11	CERAMIC CHIP	0.1uF		25V (MY,SP)
		< RESISTOR >				C716	1-164-156-11	CERAMIC CHIP	0.1uF		25V (MY,SP)
R800	1-216-825-11	METAL CHIP 2.2K 5% 1/16W				C717	1-126-964-11	ELECT	10uF	20.00%	50V (MY,SP)
R801	1-216-825-11	METAL CHIP 2.2K 5% 1/16W									
R802	1-216-829-11	METAL CHIP 4.7K 5% 1/16W				C718	1-126-964-11	ELECT	10uF	20.00%	50V (MY,SP)
R803	1-216-833-11	METAL CHIP 10K 5% 1/16W				C721	1-162-921-11	CERAMIC CHIP	33PF	5%	50V (MY,SP)
R809	1-216-821-11	METAL CHIP 1K 5% 1/16W				C722	1-162-918-11	CERAMIC CHIP	18PF	5.00%	50V (MY,SP)
R837	1-216-825-11	METAL CHIP 2.2K 5% 1/16W				C723	1-162-921-11	CERAMIC CHIP	33PF	5%	50V (MY,SP)
R844	1-216-825-11	METAL CHIP 2.2K 5% 1/16W				C724	1-162-918-11	CERAMIC CHIP	18PF	5.00%	50V (MY,SP)
R849	1-216-829-11	METAL CHIP 4.7K 5% 1/16W									
R860	1-216-833-11	METAL CHIP 10K 5% 1/16W				C725	1-162-921-11	CERAMIC CHIP	33PF	5%	50V (MY,SP)
R864	1-216-833-11	METAL CHIP 10K 5% 1/16W				C726	1-162-918-11	CERAMIC CHIP	18PF	5.00%	50V (MY,SP)
R865	1-216-829-11	METAL CHIP 4.7K 5% 1/16W				C727	1-162-921-11	CERAMIC CHIP	33PF	5%	50V (MY,SP)
R866	1-216-829-11	METAL CHIP 4.7K 5% 1/16W				C728	1-162-918-11	CERAMIC CHIP	18PF	5.00%	50V (MY,SP)
R873	1-216-821-11	METAL CHIP 1K 5% 1/16W				C729	1-126-964-11	ELECT	10uF	20.00%	50V (MY,SP)
		< SWITCH >									
S800	1-418-632-11	ENCODER, ROTARY (VOLUME)				C730	1-164-156-11	CERAMIC CHIP	0.1uF		25V (MY,SP)
S801	1-786-220-11	SWITCH, KEY BOARD (■)				C731	1-164-156-11	CERAMIC CHIP	0.1uF		25V (MY,SP)
S802	1-786-220-11	SWITCH, KEY BOARD (■)				C732	1-126-933-11	ELECT	100uF	20.00%	16V (MY,SP)
S803	1-786-220-11	SWITCH, KEY BOARD (PRESET+ ▶▶)				C733	1-128-551-11	ELECT	22uF	20.00%	25V (MY,SP)
S804	1-786-220-11	SWITCH, KEY BOARD (▶)				C734	1-128-551-11	ELECT	22uF	20.00%	25V (MY,SP)
S805	1-786-220-11	SWITCH, KEY BOARD (PRESET- ◀◀)									
S806	1-786-220-11	SWITCH, KEY BOARD (≡)									
S821	1-786-220-11	SWITCH, KEY BOARD (SOUNDFIELD+)									
S822	1-786-220-11	SWITCH, KEY BOARD (SOUNDFIELD-)									
S823	1-786-220-11	SWITCH, KEY BOARD (DISPLAY)									
S824	1-786-220-11	SWITCH, KEY BOARD (BAND)									
S825	1-786-220-11	SWITCH, KEY BOARD (FUNCTION)									

A-4729-934-A	VIDEO BOARD, COMPLETE (MY,SP)	*****									
		< CAPACITOR >									
C701	1-162-923-11	CERAMIC CHIP 47PF 5% 50V (MY,SP)									
C702	1-162-923-11	CERAMIC CHIP 47PF 5% 50V (MY,SP)									
		< CONNECTOR >									
						CN700	1-779-281-11	CONNECTOR,FFC(LIF(NON-ZIF))13P (MY,SP)			
						* CN701	1-568-943-11	PIN, CONNECTOR 5P (MY,SP)			
						* CN702	1-506-486-11	PIN, CONNECTOR 7P (MY,SP)			

VIDEO

Ref. No.	Part No.	Description	Remarks
< IC >			
IC701	8-759-474-37	IC NJM2279M-TE2 (MY,SP)	
IC702	8-759-474-37	IC NJM2279M-TE2 (MY,SP)	
IC711	8-759-646-52	IC KIA7805API (MY,SP)	
< JACK >			
J701	1-794-334-11	JACK,(S)VIDEO CONNECTOR(2GANG) (VIDEO S VIDEO OUT,S VIDEO IN) (MY,SP)	
J702	1-794-334-11	JACK,(S)VIDEO CONNECTOR(2GANG) (TV/SAT S VIDEO IN,MONITOR OUT S VIDEO) (MY,SP)	
< COIL >			
L705	1-216-295-91	SHORT CHIP 0 (MY,SP)	
L721	1-412-953-11	INDUCTOR 15uH (MY,SP)	
L722	1-412-953-11	INDUCTOR 15uH (MY,SP)	
L723	1-412-953-11	INDUCTOR 15uH (MY,SP)	
L724	1-412-953-11	INDUCTOR 15uH (MY,SP)	
< TRANSISTOR >			
Q731	1-801-806-11	TRANSISTOR DTC144EKA-T146 (MY,SP)	
Q733	8-729-027-23	TRANSISTOR DTA114EKA-T146 (MY,SP)	
Q734	8-729-027-23	TRANSISTOR DTA114EKA-T146 (MY,SP)	
< RESISTOR >			
R701	1-218-285-11	RES-CHIP 75 5% 1/10W (MY,SP)	
R702	1-218-285-11	RES-CHIP 75 5% 1/10W (MY,SP)	
R703	1-218-285-11	RES-CHIP 75 5% 1/10W (MY,SP)	
R704	1-218-285-11	RES-CHIP 75 5% 1/10W (MY,SP)	
R705	1-218-285-11	RES-CHIP 75 5% 1/10W (MY,SP)	
R706	1-218-285-11	RES-CHIP 75 5% 1/10W (MY,SP)	
R707	1-218-285-11	RES-CHIP 75 5% 1/10W (MY,SP)	
R708	1-218-285-11	RES-CHIP 75 5% 1/10W (MY,SP)	
R711	1-216-833-11	METAL CHIP 10K 5% 1/16W (MY,SP)	
R712	1-216-833-11	METAL CHIP 10K 5% 1/16W (MY,SP)	
R713	1-216-833-11	METAL CHIP 10K 5% 1/16W (MY,SP)	
R714	1-216-833-11	METAL CHIP 10K 5% 1/16W (MY,SP)	
R715	1-216-864-11	METAL CHIP 0 5% 1/16W (MY,SP)	
R721	1-218-289-11	RES-CHIP 510 5% 1/10W (MY,SP)	
R722	1-218-289-11	RES-CHIP 510 5% 1/10W (MY,SP)	
R727	1-216-833-11	METAL CHIP 10K 5% 1/16W (MY,SP)	
R728	1-216-833-11	METAL CHIP 10K 5% 1/16W (MY,SP)	
R729	1-216-833-11	METAL CHIP 10K 5% 1/16W (MY,SP)	

Ref. No.	Part No.	Description	Remarks
MISCELLANEOUS *****			
△ 5	1-696-169-11	CORD, POWER	
57	1-792-672-11	CABLE, FLEXIBLE FLAT (15 CORE)	
62	1-683-239-11	HP RETAINER BOARD	
△ 419	8-820-144-06	OPTICAL PICK-UP (KHM-240AAA)	
420	1-823-072-11	CABLE, FLEXIBLE FLAT 26P	
421	1-823-073-11	CABLE, FLEXIBLE FLAT (9 CORE)	
△ F901	1-533-470-11	FUSE, GLASS TUBE (DIA. 5) T3.15AL/250V	
M901	A-2004-893-A	MOTOR (LD) ASSY (LOADING)	
△ S901	1-786-210-11	SWITCH, POWER	

ACCESSORIES *****			
	1-477-322-11	REMOTE COMMANDER (RM-SP10)	
	1-573-291-11	CONNECTOR, CONVERSION	
	1-754-060-12	ANTENNA (FM)	
	1-754-149-11	LOOP ANT (AM)	
	1-769-108-11	CORD, CONNECTION (UK)	
△	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
	1-824-180-11	CORD, CONNECTION (AEP,MY,SP)	
	3-071-119-21	COVER, BATTERY (FOR RM-SP10)	
	4-240-874-11	MANUAL, INSTRUCTION (ENGLISH) (AEP,UK)	
	4-240-874-21	MANUAL, INSTRUCTION (FRENCH,SPANISH) (AEP)	
	4-240-874-31	MANUAL, INSTRUCTION (GERMAN,DUTCH,ITALIAN) (AEP)	
	4-240-874-41	MANUAL, INSTRUCTION (SWEDISH,POLISH) (AEP)	
	4-240-874-51	MANUAL, INSTRUCTION (DANISH,FINNISH) (AEP)	
	4-240-874-61	MANUAL, INSTRUCTION (ENGLISH,CHINESE) (MY,SP)	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

MEMO

REVISION HISTORY

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