

# STR-DG510

## SERVICE MANUAL

Ver. 1.2 2007. 05

*US Model  
Canadian Model  
AEP Model  
UK Model  
E Model  
Australian Model*



Photo: Black type

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### SPECIFICATIONS

#### AUDIO POWER SPECIFICATIONS

##### POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

###### (Models of area code US only)

With 8 ohm loads, both channels driven, from 20 – 20,000 Hz; rated 90 watts per channel minimum RMS power, with no more than 0.09 % total harmonic distortion from 250 milliwatts to rated output.

##### Amplifier section

Models of area code US, CND <sup>1)</sup>

Minimum RMS Output Power (8 ohms, 20 Hz – 20 kHz, THD 0.09%)

90 W + 90 W

Stereo Mode Output Power (8 ohms, 1 kHz, THD 1%)

100 W + 100 W

Surround Mode Output Power <sup>2)</sup> (8 ohms 1 kHz, THD 10%)

130 W/ch

Models of area code AEP, UK <sup>1)</sup>

Minimum RMS Output Power (8 ohms, 20 Hz – 20 kHz, THD 0.09%)

85 W + 85 W

Stereo Mode Output Power (8 ohms, 1 kHz, THD 1%)

100 W + 100 W

Surround Mode Output Power <sup>2)</sup> (8 ohms, 1 kHz, THD 10%)

130 W/ch

Models of area code E2, AUS, KR, TW <sup>1)</sup>

Minimum RMS Output Power (8 ohms, 20 Hz – 20 kHz, THD 0.09%)

70 W + 70 W

Stereo Mode Output Power (8 ohms, 1 kHz, THD 1%)

90 W + 90 W

Surround Mode Output Power <sup>2)</sup> (8 ohms, 1 kHz, THD 10%)

120 W/ch

– Continued on next page –

## MULTI CHANNEL AV RECEIVER

9-887-536-03

2007E04-1

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**Sony Corporation**

Home Audio Division

Published by Sony Techno Create Corporation

# SONY®

# STR-DG510

## Ver. 1.2

Models of area code MY, SP, TH <sup>1)</sup>

Minimum RMS Output Power (8 ohms, 20 Hz – 20 kHz, THD 0.09%)

60 W + 60 W

Stereo Mode Output Power (8 ohms, 1 kHz, THD 1%)

80 W + 80 W

Surround Mode Output Power <sup>2)</sup> (8 ohms, 1 kHz, THD 10%)

120 W/ch

1) Measured under the following conditions:

Area code	Power requirements
US, CND	120 V AC, 60 Hz
AEP, UK, MY, SP, TH	230 V AC, 50 Hz
E2, AUS	240 V AC, 50 Hz
TW	110 V AC, 60 Hz
KR	220 V AC, 60 Hz

2) Reference power output for front, center and surround speakers. Depending on the sound field settings and the source, there may be no sound output.

Frequency response

Analog 10 Hz – 70 kHz  
+0.5/-2 dB (with sound field and tone bypassed)

Inputs

Analog Sensitivity: 500 mV/  
50 kohms  
S/N <sup>3)</sup>: 96 dB  
(A, 500 mV <sup>4)</sup>)

Digital (Coaxial) Impedance: 75 ohms  
S/N: 100 dB  
(A, 20 kHz LPF)

Digital (Optical) S/N: 100 dB  
(A, 20 kHz LPF)

Output (Analog)

AUDIO OUT Voltage: 500 mV/10 kohms  
SUB WOOFER Voltage: 2 V/1 kohm

Tone

Gain levels ±6 dB, 1 dB step

3) INPUT SHORT (with sound field and tone bypassed).

4) Weighted network, input level.

### FM tuner section

Tuning range 87.5 – 108.0 MHz  
Antenna FM wire antenna  
Antenna terminals 75 ohms, unbalanced  
Intermediate frequency 10.7 MHz

### AM tuner section

Tuning range  
Models of area code US, CND  
With 10-kHz tuning scale: 530 – 1,710 kHz <sup>5)</sup>  
With 9-kHz tuning scale: 531 – 1,710 kHz <sup>5)</sup>  
Models of area code AEP, UK, AUS, KR, MY, SP, TH, TW  
With 9-kHz tuning scale: 531 – 1,602 kHz  
Models of area code E2  
With 10-kHz tuning scale: 530 – 1,610 kHz <sup>5)</sup>  
With 9-kHz tuning scale: 531 – 1,602 kHz <sup>5)</sup>  
Antenna Loop antenna  
Intermediate frequency 450 kHz

5) You can change the AM tuning scale to 9 kHz or 10 kHz. After tuning in any AM station, turn off the receiver. While holding down TUNING MODE, press I/⏪. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat the procedure.

### Video section

Inputs/Outputs

Video: 1 Vp-p/75 ohms  
COMPONENT VIDEO: Y: 1 Vp-p/75 ohms  
Pb/Cb: 0.7 Vp-p/  
75 ohms  
Pr/Cr: 0.7 Vp-p/  
75 ohms  
80 MHz HD Pass Through

### General

Power requirements

Area code	Power requirements
US, CND	120 V AC, 60 Hz
AEP, UK	230 V AC, 50/60 Hz
E2	120/220/240 V AC, 50/60 Hz
AUS	240 V AC, 50 Hz
MY, SP, TH	230 – 240 V AC, 50/60 Hz
KR	220 – 230 V AC, 50/60 Hz
TW	110 V AC, 60 Hz

Power consumption

Area code	Power consumption
US, AEP, UK, E2, AUS, KR	220 W
CND	300 VA
MY, SP, TH	200 W
TW	500 W

Power consumption (during standby mode)

0.3 W

Dimensions (w/h/d) (Approx.)

430 × 157.5 × 310 mm  
(16 <sup>7/8</sup> × 6 <sup>2/8</sup> × 12 <sup>2/8</sup> inches) including projecting parts and controls

Mass (Approx.)

7.7 kg (16 lb 16 oz)

Supplied accessories

- FM wire antenna (aerial) (1)
- AM loop antenna (aerial) (1)
- Remote commander RM-AAU013 (1)
- R6 (size-AA) batteries (2)
- Optimizer microphone ECM-AC2 (1)

Design and specifications are subject to change without notice.

• Abbreviation

- CND : Canadian model
- AUS : Australian model
- E2 : 120 V AC area in E model
- KR : Korea model
- MY : Malaysia model
- SP : Singapore model
- TH : Thai model
- TW : Taiwan model

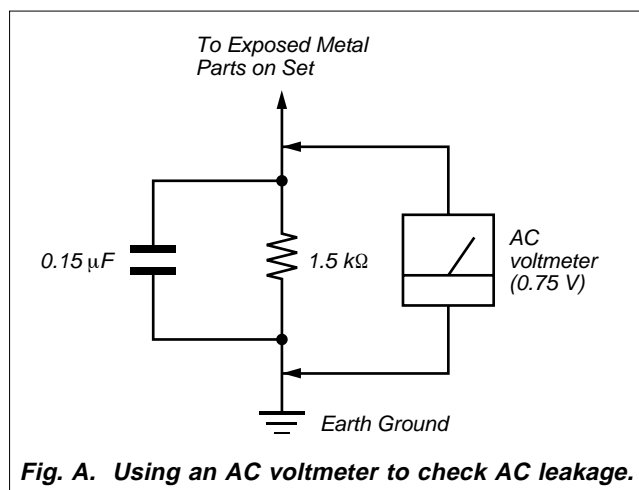
**SAFETY CHECK-OUT (US MODEL)**

After correcting the original service problem, perform the following safety check before releasing the set to the customer:  
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage.  
Check leakage as described below.

**LEAKAGE TEST**

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers.). Leakage current can be measured by any one of three methods.

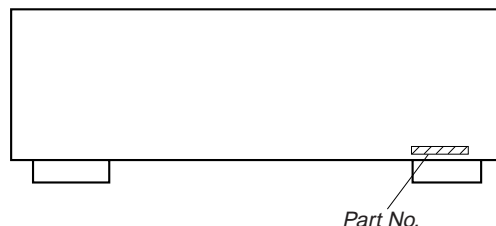
1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



**Fig. A. Using an AC voltmeter to check AC leakage.**

**MODEL IDENTIFICATION**

— BACK PANEL —



MODEL	PART No.
US	2-896-346-0□
CND	2-896-346-1□
AEP, UK	2-896-346-2□
MY, SP	2-896-346-3□
TH	2-896-346-4□
AUS	2-896-346-5□
TW	2-896-346-6□
KR	2-896-346-7□
E2	2-896-346-8□

- Abbreviation  
 CND: Canadian model  
 AUS : Australian model  
 E2 : 120 V AC area in E model  
 KR : Korea model  
 MY : Malaysia model  
 SP : Singapore model  
 TH : Thai model  
 TW : Taiwan model

**SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY MARK  $\Delta$  OR DOTTED LINE WITH MARK  $\Delta$  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.

**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!**

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  $\Delta$  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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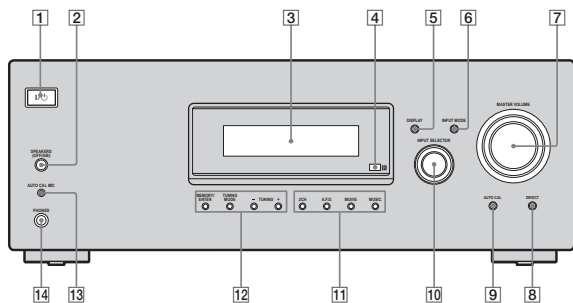
# SECTION 1 GENERAL

This section is extracted from instruction manual.

## Getting Started

### Description and location of parts

#### Front panel



Name	Function
1 <b>M/C (on/standby)</b>	Press to turn the receiver on or off (page 26, 34, 35, 52, 69).
2 <b>SPEAKERS (OFF/A/B)</b>	Press to select the front speaker system (page 27).
3 <b>Display</b>	The current status of the selected component or a list of selectable items appears here (page 8).
4 <b>Remote sensor</b>	Receives signals from remote commander.
5 <b>DISPLAY</b>	Press to select information displayed on the display (page 37, 59).
6 <b>INPUT MODE</b>	Press to select the input mode when the same components are connected to both digital and analog jacks (page 58).

Name	Function
7 <b>MASTER VOLUME</b>	Turn to adjust the volume level of all speakers at the same time (page 32, 33, 34, 35).
8 <b>DIRECT</b>	Press to listen to high quality analog sound (page 51).
9 <b>AUTO CAL</b>	Press to activate the Auto Calibration function (page 29).
10 <b>INPUT SELECTOR</b>	Turn to select the input source to play back (page 32, 34, 35, 51, 53, 55, 56, 58, 59, 60).
11 <b>2CH A.F.D. MOVIE MUSIC</b>	Press to select a sound field (page 46).

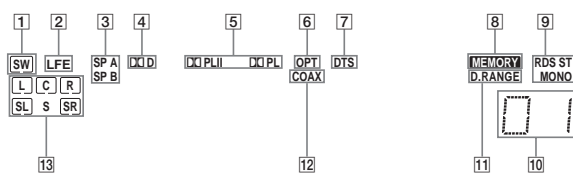
Name	Function
12 <b>MEMORY/ENTER</b>	Press to operate the tuner (FM/AM) (page 52).
<b>TUNING MODE</b>	
<b>TUNING +/-</b>	
13 <b>AUTO CAL MIC jack</b>	Connects to the supplied optimizer microphone for the Auto Calibration function (page 28).
14 <b>PHONES jack</b>	Connects to headphones (page 64).

Getting Started

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7<sup>08</sup>

#### About the indicators on the display



Name	Function
1 <b>SW</b>	Lights up when sub woofer selection is set to "YES" (page 42) and the audio signal is output from the SUB WOOFER jack.
2 <b>LFE</b>	Lights up when the disc being played back contains an LFE (Low Frequency Effect) channel and the LFE channel signal is actually being reproduced.
3 <b>SP A/SP B</b>	Lights up according to the speaker system used. However, these indicators do not light up if the speaker output is turned off or if headphones are connected.
4 <b>DD D</b>	Lights up when the receiver is decoding Dolby Digital signals. <b>Note</b> When playing a Dolby Digital format disc, be sure that you have made digital connections and that INPUT MODE is not set to "ANALOG" (page 58).

Name	Function
5 <b>PL/PLII</b>	" <b>PL</b> " lights up when the receiver applies Pro Logic processing to 2 channel signals in order to output the center and surround channel signals. "PLII" lights up when the Pro Logic II Movie/Music decoder is activated. However, these indicators do not light up if both the center and surround speakers are set to "NO" (page 38) and you select a sound field using the A.F.D. button.
6 <b>OPT</b>	Lights up when VIDEO 2 input is selected. However, "UNLOCK" appears on the display if no digital signal is input through the OPTICAL jack. "OPT" also lights up when SAT input is selected if - INPUT MODE is set to "AUTO IN" and the source signal is a digital signal being input through the OPTICAL jack. - INPUT MODE is set to "OPT IN" (page 58).
7 <b>DTS</b>	Lights up when the receiver is decoding DTS signals. <b>Note</b> When playing a DTS format disc, be sure that you have made digital connections and that INPUT MODE is not set to "ANALOG" (page 58).

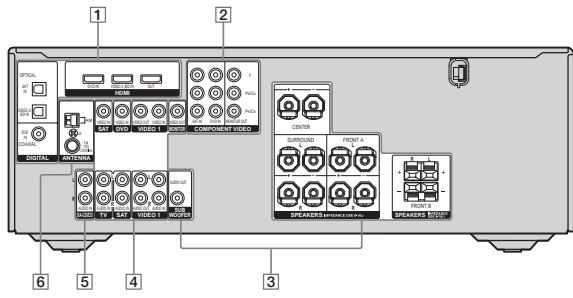
Name	Function
8 <b>MEMORY</b>	Lights up when a memory function, such as Preset Memory (page 55), etc., is activated.
9 <b>Tuner indicators</b>	Lights up when using the receiver to tune in radio stations (page 52), etc. <b>Note</b> "RDS" appears for models of area code CEL, CEK only.
10 <b>Preset station indicators</b>	Lights up when using the receiver to tune in radio stations you have preset. For details on presetting radio stations, see page 54.
11 <b>D.RANGE</b>	Lights up when dynamic range compression is activated (page 37).
12 <b>COAX</b>	Lights up when DVD input is selected. However, "UNLOCK" appears on the display if no digital signal is input through the COAXIAL jack.
13 <b>Playback channel indicators</b>	The letters (L, C, R, etc.) indicate the channels being played back. The boxes around the letters vary to show how the receiver downmixes the source sound (based on the speaker settings). <b>L</b> Front Left <b>R</b> Front Right <b>C</b> Center (monaural) <b>SL</b> Surround Left <b>SR</b> Surround Right Surround (monaural or the surround components obtained by Pro Logic processing) <b>Example:</b> Recording format (Front/Surround): 3/2.1 Output channel: When surround speakers are set to "NO" (page 38) Sound Field: A.F.D. AUTO

Getting Started

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9<sup>08</sup>

Rear panel



1 DIGITAL INPUT/OUTPUT section

- OPTICAL IN jacks** Connects to a DVD player, etc. The COAXIAL jack provides a better quality of loud sound (page 18, 21, 23).
- COAXIAL IN jack**
- HDMI IN/OUT jacks\*** Connects to a DVD player, etc. The image and the sound are output to a TV or a projector (page 18).

2 COMPONENT VIDEO INPUT/OUTPUT section

- Green (Y) COMPONENT VIDEO INPUT/OUTPUT jacks\*** Connects to a DVD player, TV, or a satellite tuner. You can enjoy high quality image (page 20, 21, 23).
- Blue (Pb/Cb)**
- Red (Pr/Cr)**

3 SPEAKERS section

- SPEAKERS FRONT A** Connects to speakers (page 15).
- SPEAKERS FRONT B**
- SPEAKERS SUBWOOFER** Connects to a sub woofer (page 15).

4 VIDEO/AUDIO INPUT/OUTPUT section

- White (L) AUDIO IN/OUT jacks** Connects to a VCR, a DVD player, etc. (page 20-24).
- Red (R)**
- Yellow VIDEO IN/OUT jacks\***

5 AUDIO INPUT section

- White (L) AUDIO IN jacks** Connects to a CD player, etc. (page 16).
- Red (R)**

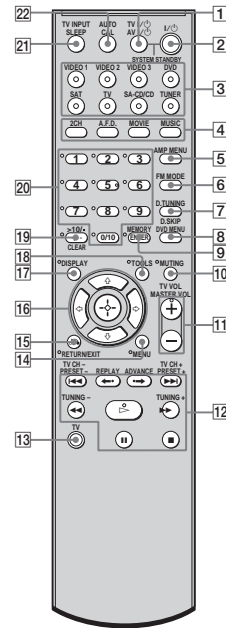
6 ANTENNA section

- FM ANTENNA jack** Connects to the FM wire antenna (aerial) supplied with this receiver (page 25).
- AM ANTENNA terminals** Connects to the AM loop antenna (aerial) supplied with this receiver (page 25).

\* You can watch the selected input image when you connect the MONITOR OUT or HDMI OUT jack to a TV or projector (page 18, 20).

Remote commander

You can use the supplied remote RM-AAU013 to operate the receiver and to control the Sony audio/video components that the remote is assigned to operate (page 61).



Getting Started

10<sup>08</sup>

continued

11<sup>08</sup>

Name	Function
<b>1 TV I/⏻ (on/standby)</b>	Press TV I/⏻ and TV (13) at the same time to turn the TV on or off.
<b>AV I/⏻ (on/standby)</b>	Press to turn on or off the Sony audio/video components that the remote is assigned to operate (page 61). If you press I/⏻ (2) at the same time, it will turn off the receiver and other components (SYSTEM STANDBY). <b>Note</b> The function of the AV I/⏻ switch changes automatically each time you press the input buttons (3).
<b>2 I/⏻ (on/standby)</b>	Press to turn the receiver on or off. To turn off all components, press I/⏻ and AV I/⏻ (1) at the same time (SYSTEM STANDBY).
<b>3 Input buttons</b>	Press one of the buttons to select the component you want to use. When you press any of the input buttons, the receiver turns on. The buttons are factory assigned to control Sony components as follows. You can change the button assignments following the steps in "Changing button assignments" on page 61.
<b>Button</b>	<b>Assigned Sony component</b>
VIDEO 1	VCR (VTR mode 3)
VIDEO 2	VCR (VTR mode 2)
VIDEO 3	Not assigned
DVD	DVD player
SAT	Digital Satellite Receiver
TV	TV
SA-CD/CD	Super Audio CD/CD player
TUNER	Built-in tuner

Name	Function
<b>4 2CH</b>	Press to select a sound field.
<b>A.F.D.</b>	
<b>MOVIE</b>	
<b>MUSIC</b>	
<b>5 AMP MENU</b>	Press to display the menu of the receiver. Then, use ♣, ♠, ♠, ♠ and Ⓢ (16) to perform menu operations.
<b>6 FM MODE</b>	Press to select the FM monaural or stereo reception.
<b>7 D.TUNING</b>	Press to enter direct tuning mode.
<b>D.SKIP</b>	Press to skip a disc when using a multi-disc changer.
<b>8 DVD MENU</b>	Press to display the menu of the DVD player on the TV screen. Then, use ♣, ♠, ♠, ♠ and Ⓢ (16) to perform menu operations.
<b>9 ENTER</b>	Press to enter the value after selecting a channel, disc or track using the numeric buttons of the TV, VCR or satellite tuner.
<b>MEMORY</b>	Press to store a station.
<b>10 MUTING</b>	Press to activate the muting function. Press MUTING and TV (13) at the same time to activate the TV's muting function.
<b>11 TV VOL +/Ⓢ/-</b>	Press TV VOL +/- and TV (13) at the same time to adjust the TV volume level.
<b>MASTER VOL +/Ⓢ/-</b>	Press to adjust the volume level of all speakers at the same time.
<b>12 ⏮⏪⏩⏭</b>	Press to skip a track of the CD player, DVD player or blu-ray disc player.
<b>REPLAY ⏮/ADVANCE ⏭</b>	Press to replay the previous scene or fast forward the current scene of the VCR, DVD player or blu-ray disc player.

Name	Function
<b>⏪⏩</b>	Press to - search tracks in the forward/reverse direction of the DVD player. - start fast forward/rewind of the VCR, CD player or blu-ray disc player.
<b>▶a)</b>	Press to start playback of the VCR, CD player, DVD player, or blu-ray disc player.
<b>⏸</b>	Press to pause playback or recording of the VCR, CD player, DVD player or blu-ray disc player. (Also starts recording with components in recording standby.)
<b>■</b>	Press to stop playback of the VCR, CD player, DVD player or blu-ray disc player.
<b>TV CH +/-</b>	Press TV CH +/- and TV (13) at the same time to select preset TV channels.
<b>PRESET +/-</b>	Press to select - preset stations. - preset channels of the VCR or satellite tuner.
<b>TUNING +/-</b>	Press to scan a station.
<b>13 TV</b>	Press TV and the button you want at the same time to activate the buttons with orange printing.
<b>14 MENU</b>	Press to display the menu of the VCR, DVD player, satellite tuner or blu-ray disc player on the TV screen. Press MENU and TV (13) at the same time to display the TV's menu. Then, use ♣, ♠, ♠, ♠ and Ⓢ (16) to perform menu operations.

Name	Function
<b>15 RETURN/EXIT ⏪</b>	Press to - return to the previous menu. - exit the menu while the menu or on-screen guide of the VCR, DVD player, satellite tuner or blu-ray disc player is displayed on the TV screen. Press RETURN/EXIT and TV (13) at the same time to return to the previous menu or exit the TV's menu while the menu is displayed on the TV screen.
<b>16 Ⓢ</b>	After pressing AMP MENU (5), DVD MENU (8), or MENU (14), press ♣, ♠, ♠, ♠ or Ⓢ to select the settings. Then, press Ⓢ to enter the selection for DVD MENU or MENU. Press Ⓢ also to enter the selection of the receiver, VCR, satellite tuner, CD player, DVD player or blu-ray disc player.
<b>17 DISPLAY</b>	Press to select information displayed on the TV screen of the VCR, satellite tuner, CD player, DVD player or blu-ray disc player. Press DISPLAY and TV (13) at the same time to display TV's information on the TV screen.
<b>18 TOOLS</b>	Press to display options applicable to the entire disc (e.g. disc protection), recorder (e.g. audio settings during recording), or multiple items on a list menu (e.g. erasing multiple titles). Press TOOLS and TV (13) at the same time to display options applicable to the TV.

Getting Started

12<sup>08</sup>

continued

13<sup>08</sup>

Name	Function
<b>19</b> <b>-/-</b>	Press <b>-/-</b> and TV ( <b>13</b> ) at the same time to select the channel entry mode, either one or two digits of the TV.
<b>&gt;10/</b>	Press to select – track numbers over 10 of the VCR, satellite tuner or CD player. – channel numbers of the Digital CATV terminal.
<b>CLEAR</b>	Press to clear a mistake when you press the incorrect numeric button.
<b>20</b> <b>Numeric buttons (number 5<sup>a)</sup>)</b>	Press to – preset/tune to preset stations. – select track numbers of the CD player, DVD player or blu-ray disc player. Press 0/10 to select track number 10. – select channel numbers of the VCR or satellite tuner. Press the numeric buttons and TV ( <b>13</b> ) at the same time to select the TV channels.
<b>21</b> <b>TV INPUT</b>	Press TV INPUT and TV ( <b>13</b> ) at the same time to select the input signal (TV input or video input).
<b>SLEEP</b>	Press to activate the Sleep Timer function and the duration which the receiver turns off automatically.
<b>22</b> <b>AUTO CAL</b>	Press to activate the Auto Calibration function.

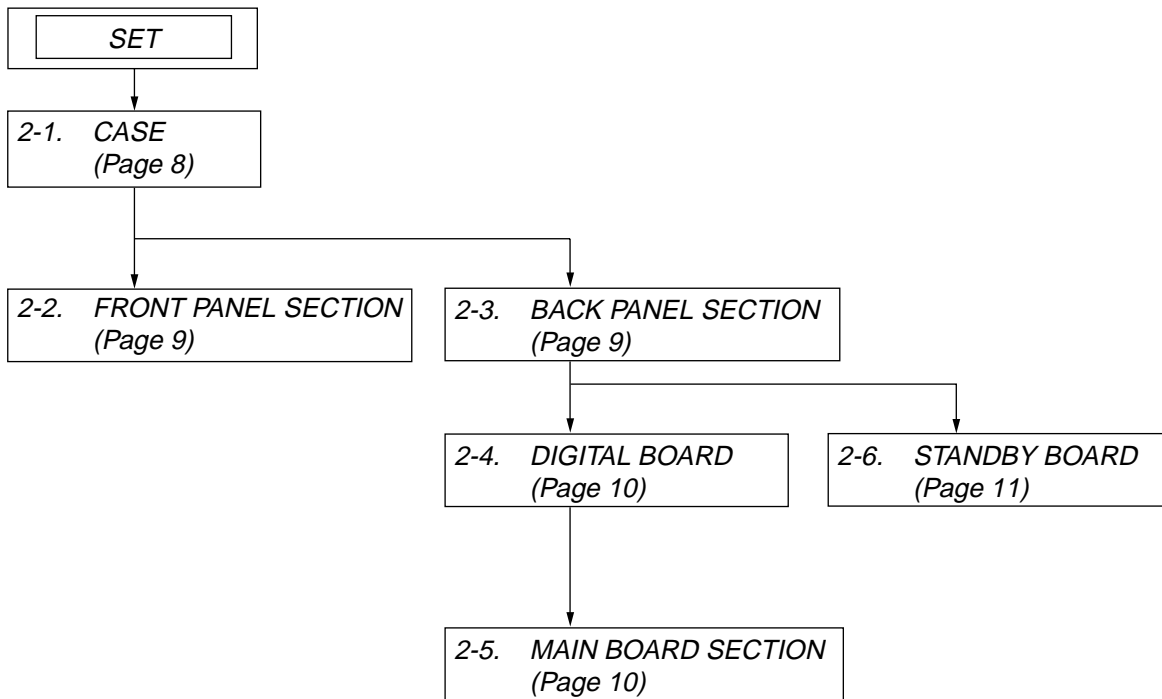
<sup>a)</sup>The number 5, MASTER VOL +, TV VOL +, and > buttons have tactile dots. Use the tactile dots as references when operating the receiver.

#### Notes

- Some functions explained in this section may not work depending on the model.
- The above explanation is intended to serve as an example only. Therefore, depending on the component, the above operation may not be possible or may operate differently than described.
- The VIDEO 3 button on the remote is not available for receiver operation.

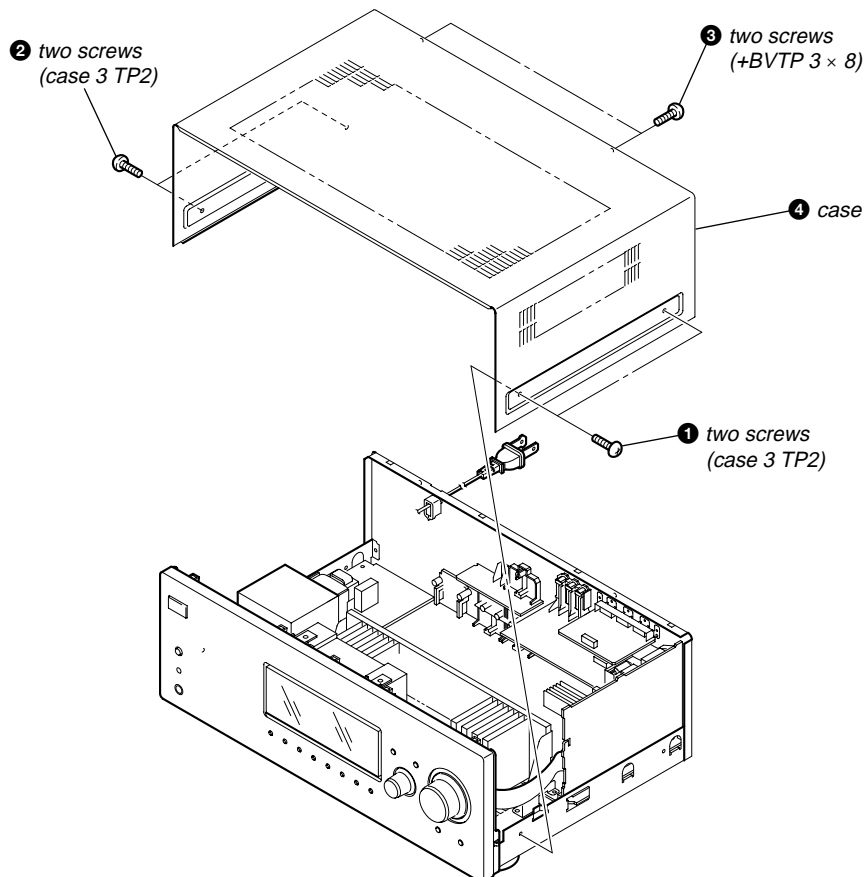
## SECTION 2 DISASSEMBLY

**Note :** This set can be disassemble according to the following sequence.



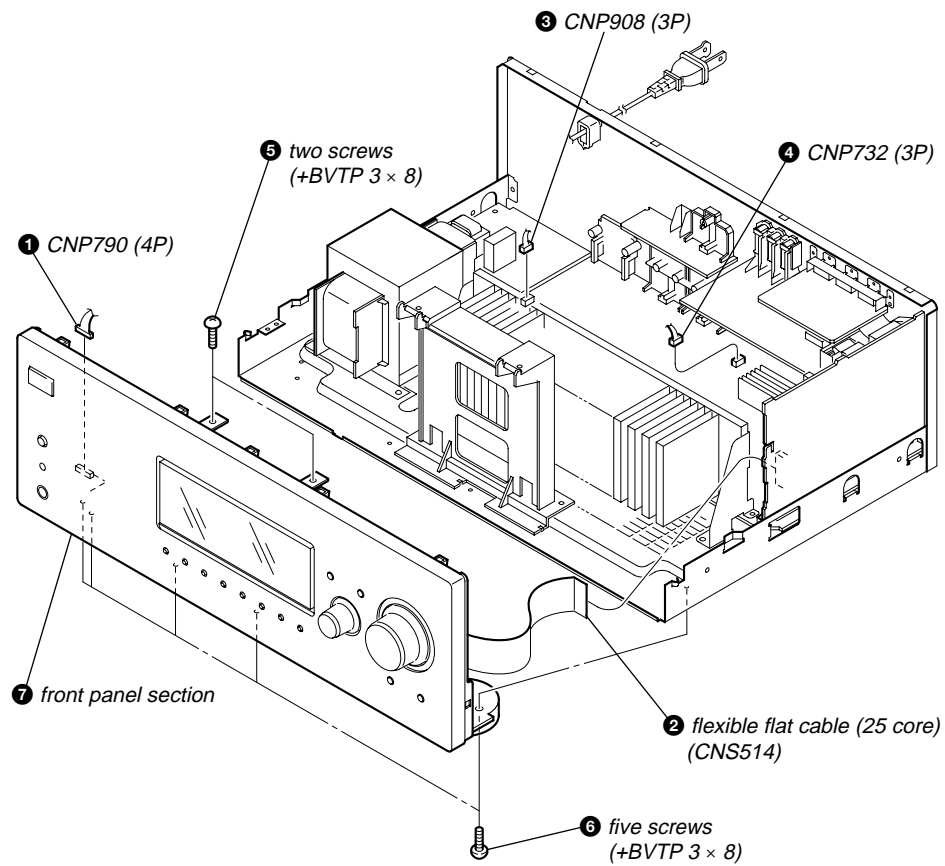
**Note :** Follow the disassembly procedure in the numerical order given.

### 2-1. CASE

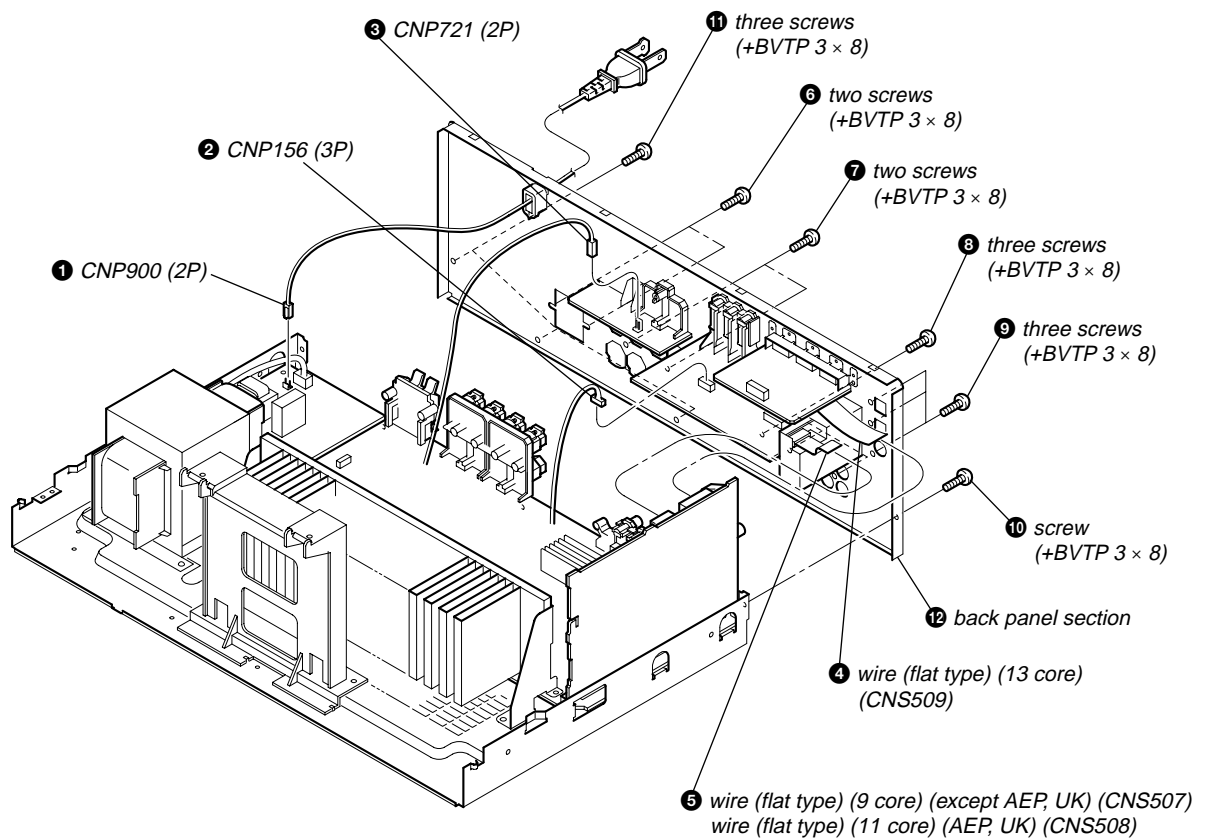




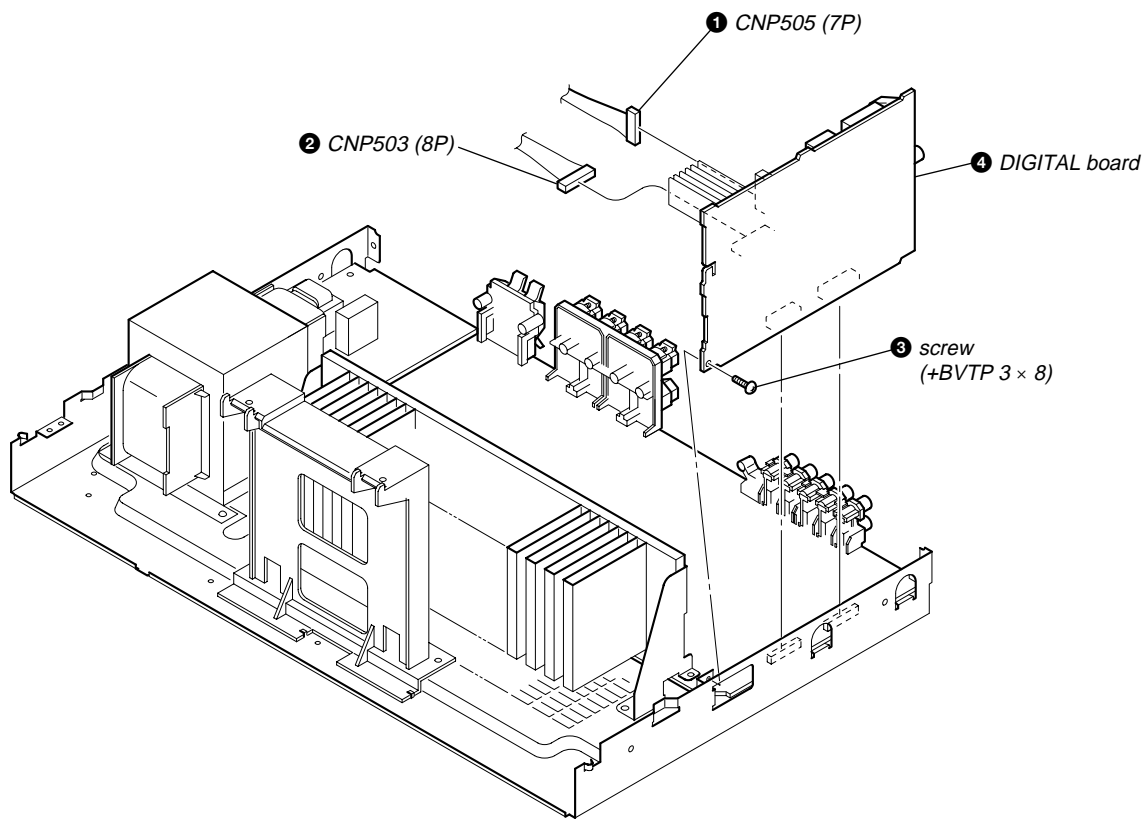
**2-2. FRONT PANEL SECTION**



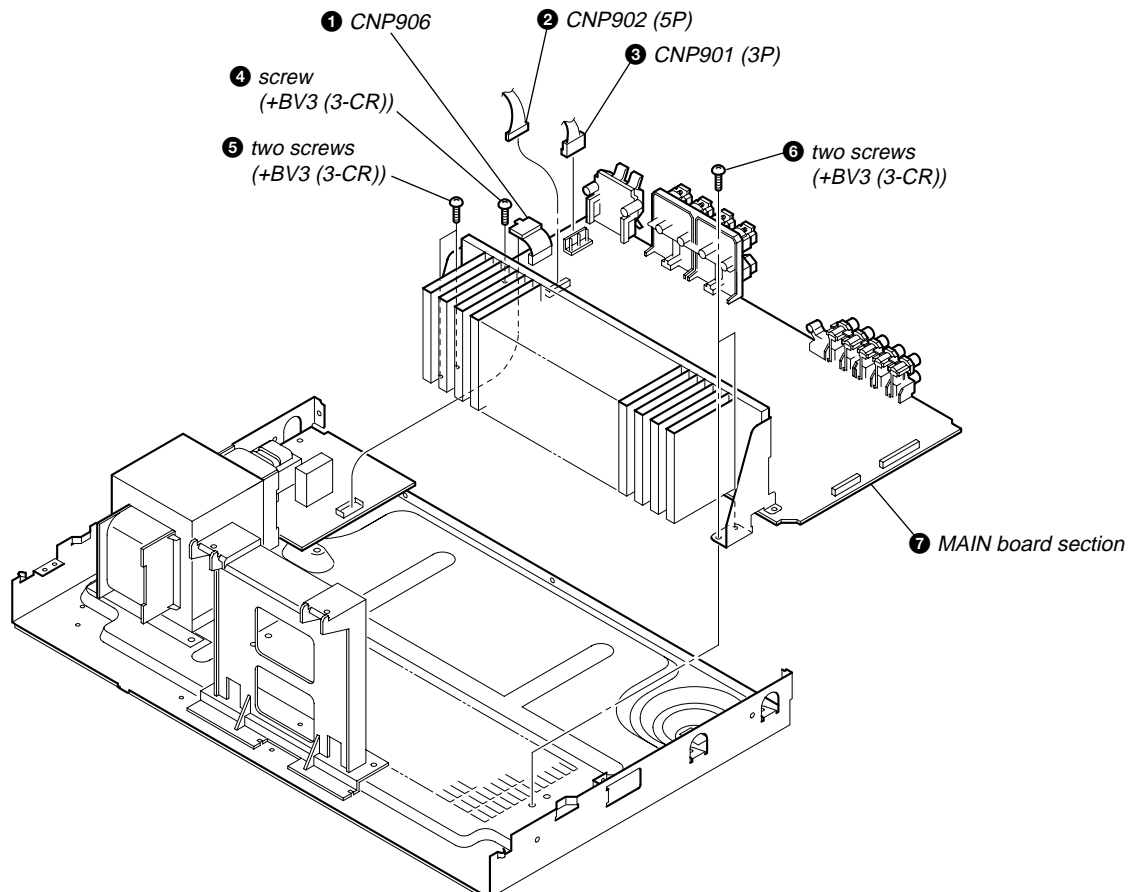
**2-3. BACK PANEL SECTION**



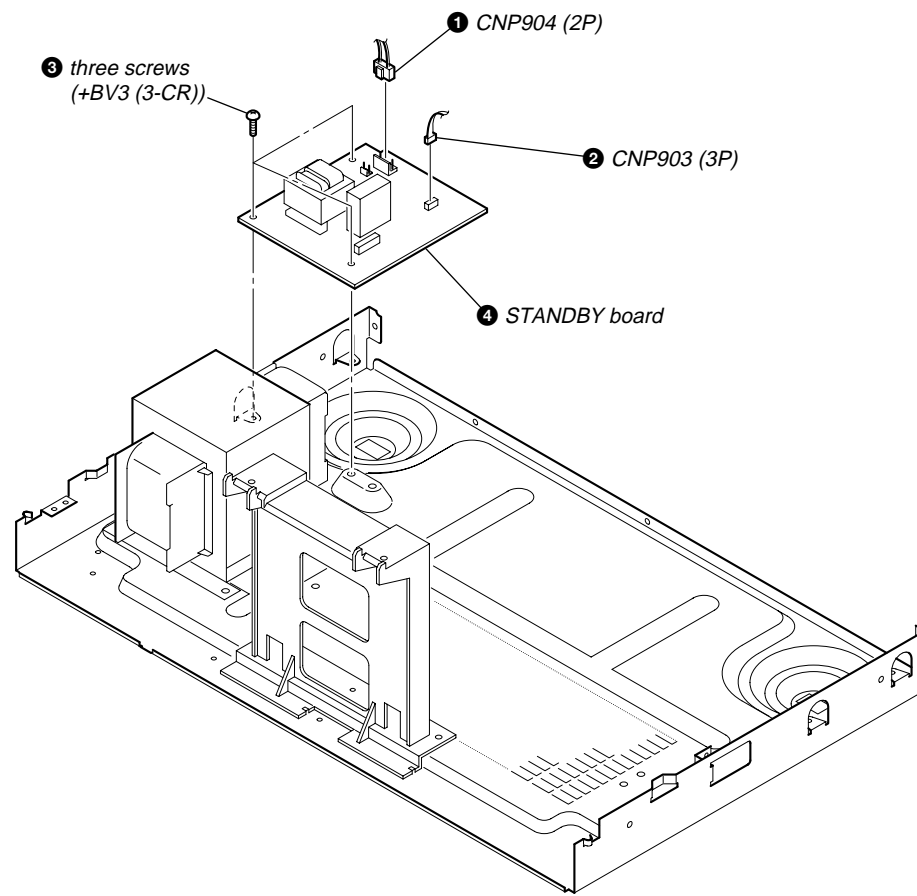
## 2-4. DIGITAL BOARD



## 2-5. MAIN BOARD SECTION



## 2-6. STANDBY BOARD



## SECTION 3 TEST MODE

### AM CHANNEL STEP 9 kHz/10 kHz SELECTION MODE (US, Canadian, E2 model only)

\* Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.

\* Procedure:

Turn the **[INPUT SELECTOR]** control to set AM and press the **[I/⏻]** button to turn off the main power.

While depressing the **[TUNING MODE]** button, press the **[I/⏻]** button to turn on the main power.

Either the message “9k STEP” or “10k STEP” appears for a moment and select the desired step.

### VACUUM FLUORESCENT DISPLAY TEST MODE

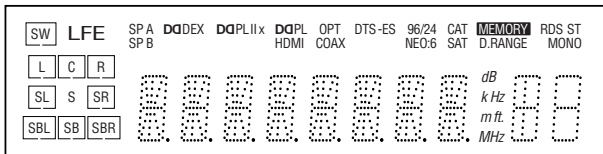
\* All fluorescent segments are tested.

When this test is activated, all segments light on at the same time, then each segment lights on one after another.

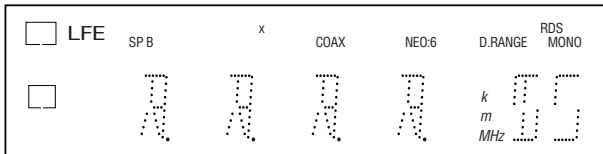
\* Procedure:

While depressing the **[TUNING MODE]** and the **[DISPLAY]** buttons simultaneously, press the **[I/⏻]** button to turn on the main power.

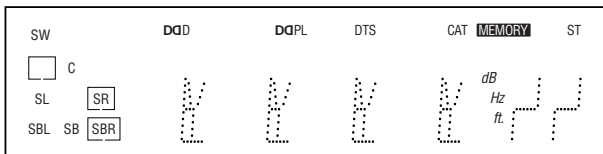
1. ALL segments light on.



2. Turn the **[INPUT SELECTOR]** control, confirm display.



3. Turn the **[INPUT SELECTOR]** control, confirm display.



4. Turn the **[INPUT SELECTOR]** control, all segments light off.

### SOUND FIELD CLEAR MODE

\* The preset sound field is cleared when this mode is activated.

Use this mode before returning the product to clients upon completion of repair.

\* Procedure:

While depressing the **[2CH]** button, press the **[I/⏻]** button to turn on the main power.

The message “S.F. CLR.” appears for a moment and initialization is performed.

### SOFTWARE VERSION DISPLAY MODE

\* The software version is displayed.

\* Procedure:

While depressing the **[SPEAKERS (OFF/A/B)]** and the **[DISPLAY]** buttons simultaneously, press the **[I/⏻]** button to turn on the main power.

The model name, destination and the software version are displayed for a moment.

### KEY CHECK MODE

\* Button check

\* Procedure:

While depressing the **[SPEAKERS (OFF/A/B)]** and the **[2CH]** buttons simultaneously, press the **[I/⏻]** button to turn on the main power.

Either the message “REST 13” appears.

Every pressing of any button other than the **[I/⏻]** counts down the buttons. The buttons which are already counted once are not counted again. When all buttons are pressed “REST 00” appears.

### SWAP ALL MODE

\* The signal will be swap to all channel so that all speaker will have sound output.

\* Procedure:

1. While depressing the **[SPEAKERS (OFF/A/B)]** and the **[A.F.D.]** buttons simultaneously, press the power **[I/⏻]** button to turn on the main power.
2. “SWP. ALL” appears. (No change while displayed.)

### SHIPMENT MODE

All preset contents are reset to the default setting.

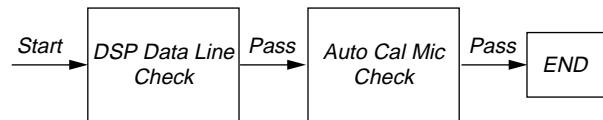
\* Procedure:

1. While depressing the **[SPEAKERS (OFF/A/B)]** and the **[MUSIC]** buttons simultaneously, press the power **[I/⏻]** button to turn on the main power.
2. “CLEARED” appears and switch off the set.

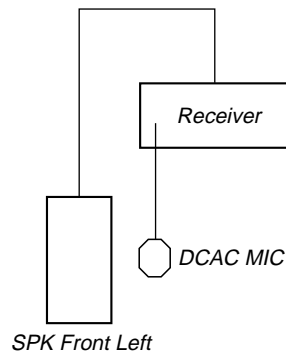
### DCAC FACTORY TEST MODE

DCAC Factory Test mode have two stages:

1. DCAC DSP Data Line Checking
2. DCAC board Checking



### Factory Test System Setup



1. When power off:  
Press the three buttons **[MEMORY/ENTER]** + **[MOVIE]** + **[I/⏻]**.  
“DCAC□FTM” appears.  
Afterward, press the **[TUNING MODE]** to start DCAC factory test mode.

## SECTION 4

### FM TUNER CHECK

#### 1. DCAC DSP Data Line Checking

After press the **[TUNING MODE]**, DCAC Factory test mode will start, below display will show:

“DCAC□□□x” x=1, 2, 3

If there is error happen, below display will show:

“ERR□SD0x” x=1 → D1501 or R1530 problem  
 x=2 → D1502 problem  
 x=3 → D1503 problem

#### 2. DCAC board Checking

Connect front left speaker of the receiver and AUTO CAL microphone. Turn **[MASTER VOLUME]** jog, there will be test tone sound output from front left speaker, and the display will change accordingly.

“AD□-□xxx” xxx=0 to 255 (depends on loudness of test tone)

#### FM AUTO STOP CHECK

- (1) Turn on the set.
- (2) Input the following signal from Signal Generator to FM antenna input directly.

\* Carrier Frequency: A=87.5 MHz, B=98 MHz, C=108 MHz  
 Deviation : 75 kHz  
 Modulation : 1 kHz  
 ANT input : 35 dBu (EMF)

#### (Note)

Please use 75 ohm “coaxial cable” to connect SG and the set. You cannot use video cable for checking.

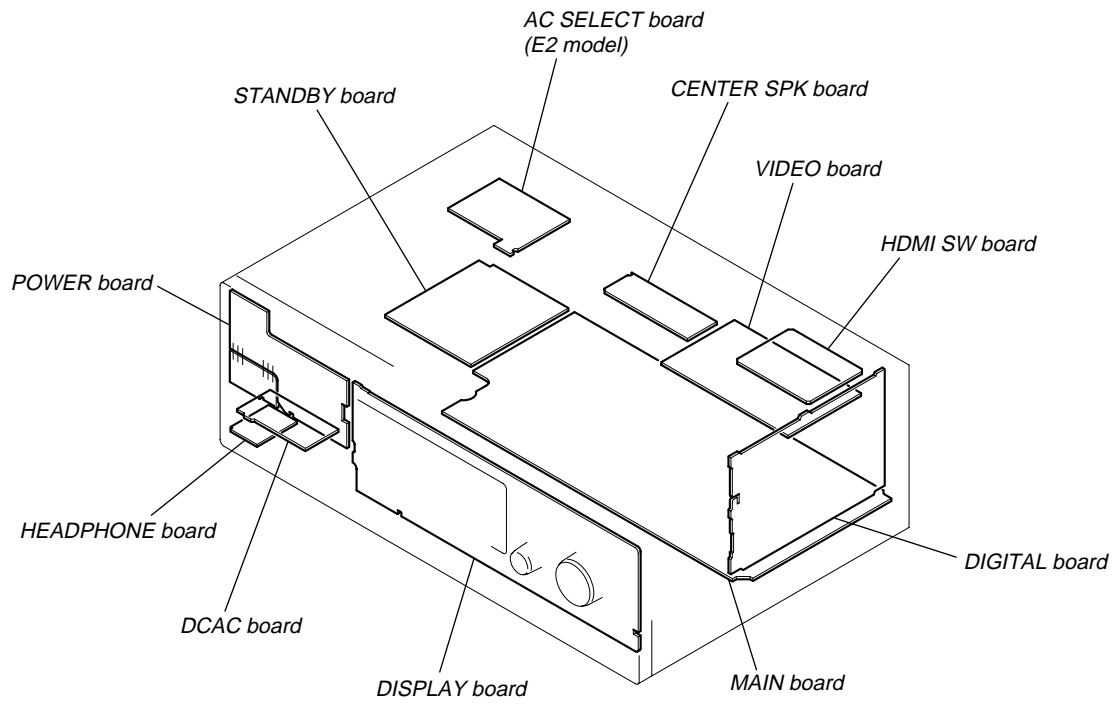
Please use SG whose output impedance is 75 ohm.

- (3) Set to FM tuner function and scan the input FM signal with automatic scanning.
- (4) Confirm that input Frequency of A, B and C are detected and automatic scanning stops.

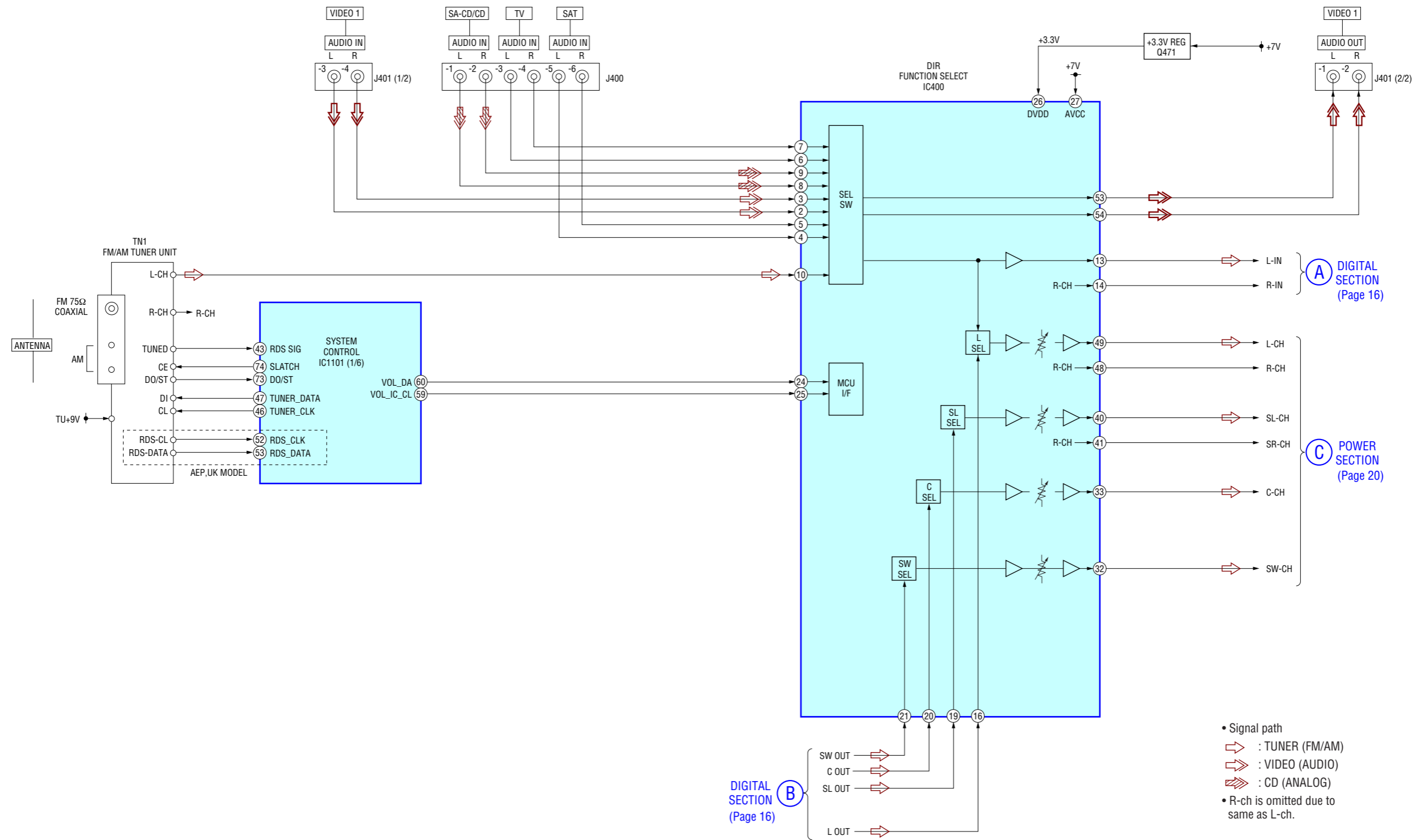
The stop of automatic scanning means “The station signal is received in good condition.”

## SECTION 5 DIAGRAMS

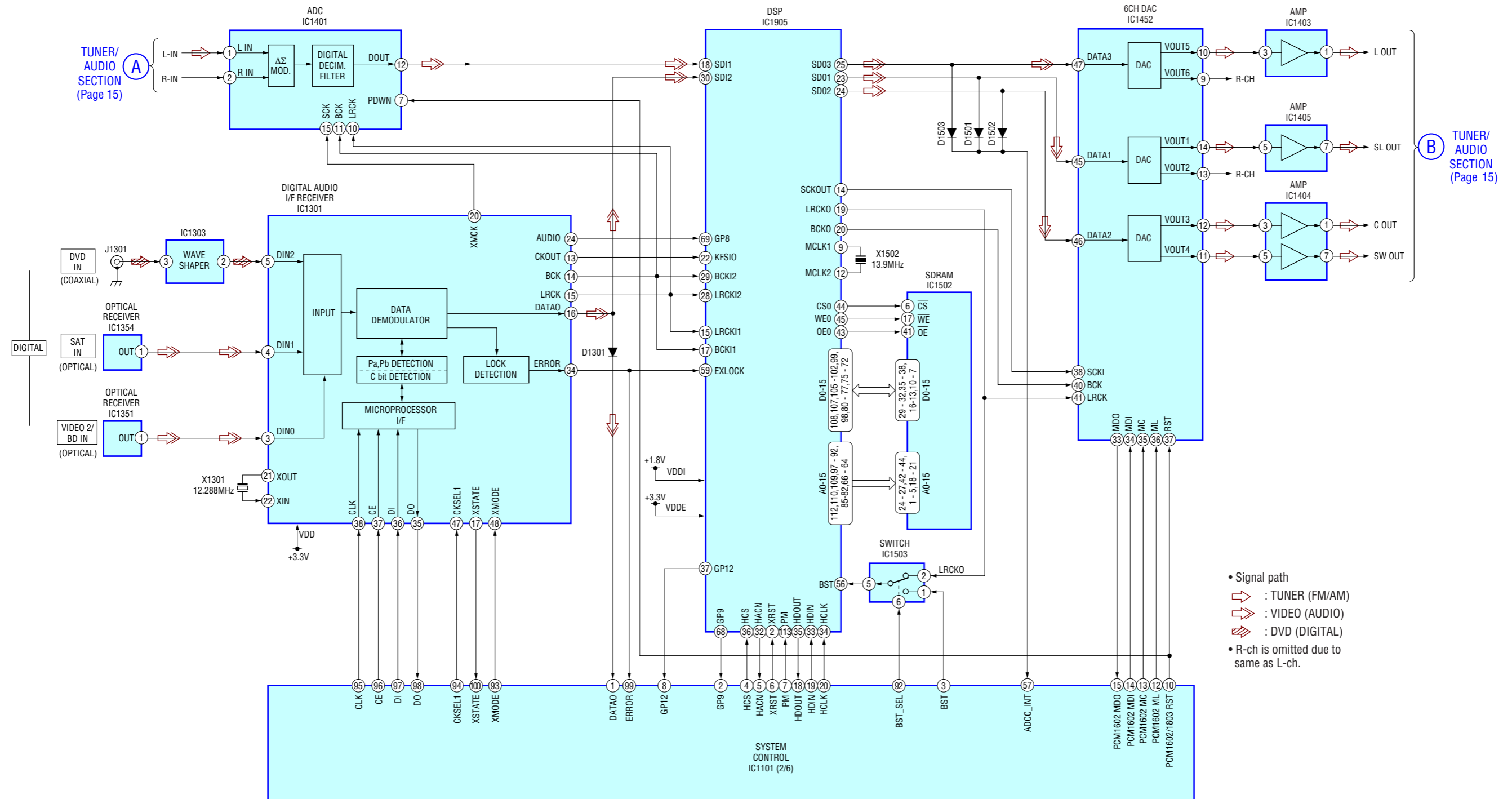
### • Circuit Boards Location



5-1. BLOCK DIAGRAM — TUNER/AUDIO SECTION —

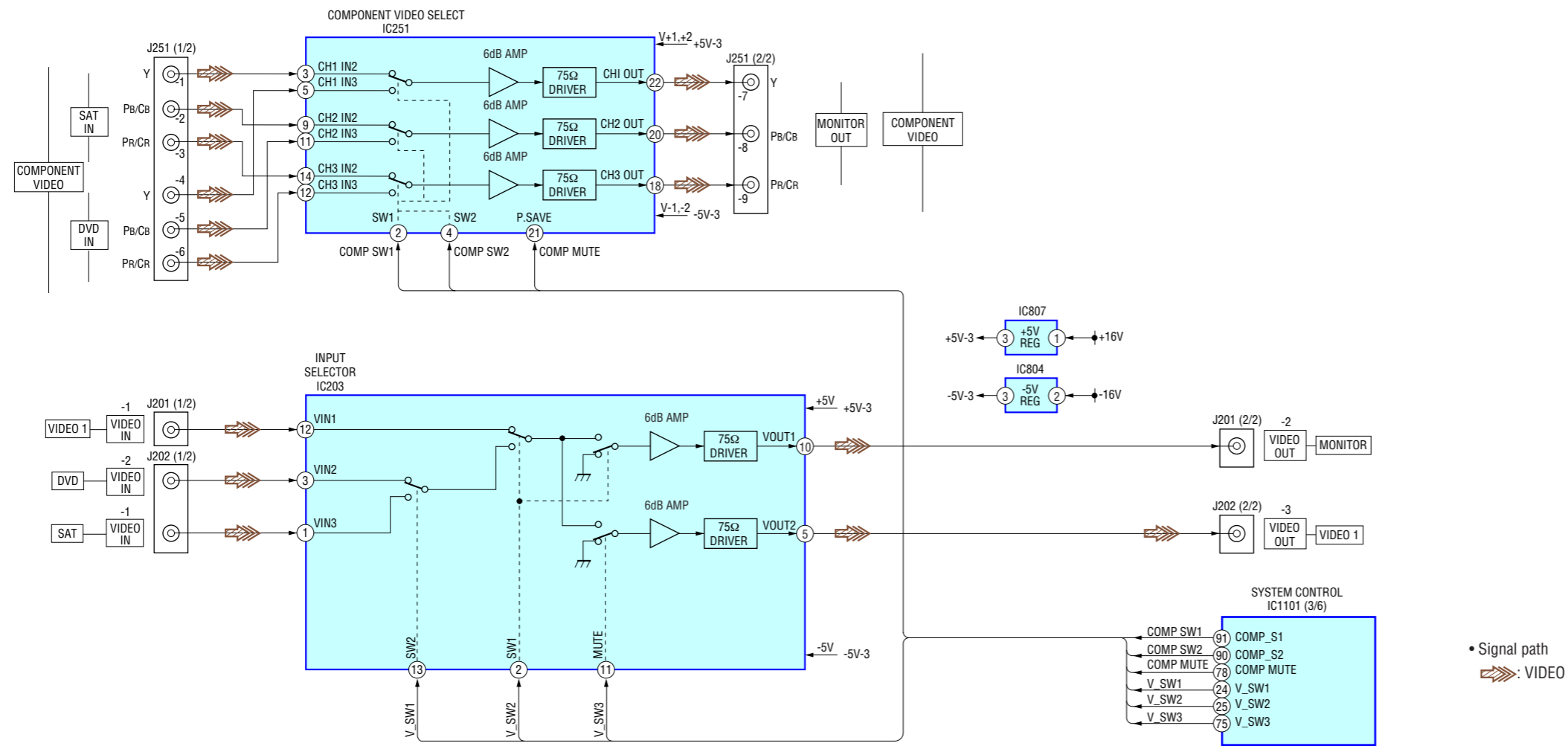


5-2. BLOCK DIAGRAM — DIGITAL SECTION —

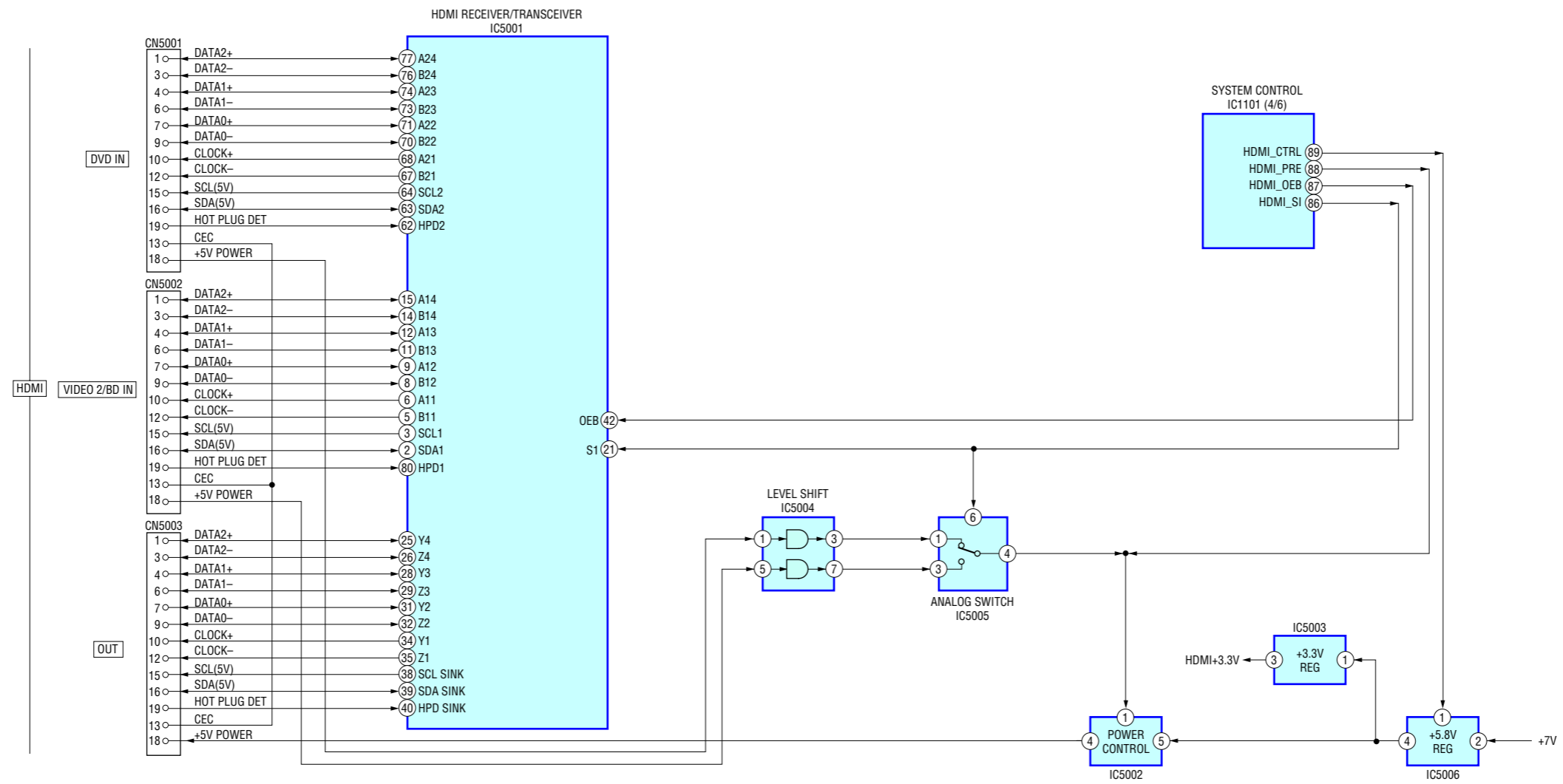




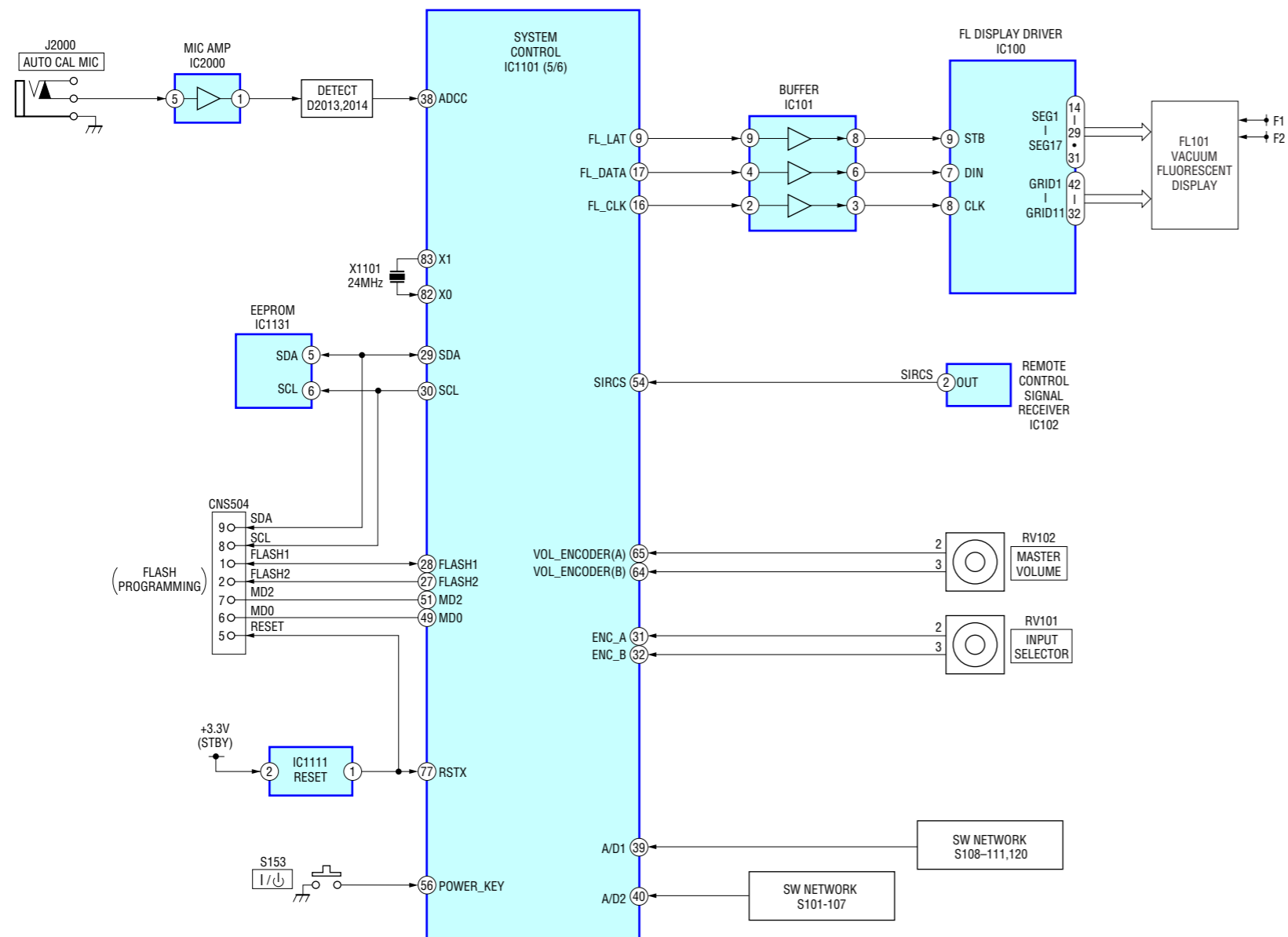
5-3. BLOCK DIAGRAM — VIDEO SECTION —



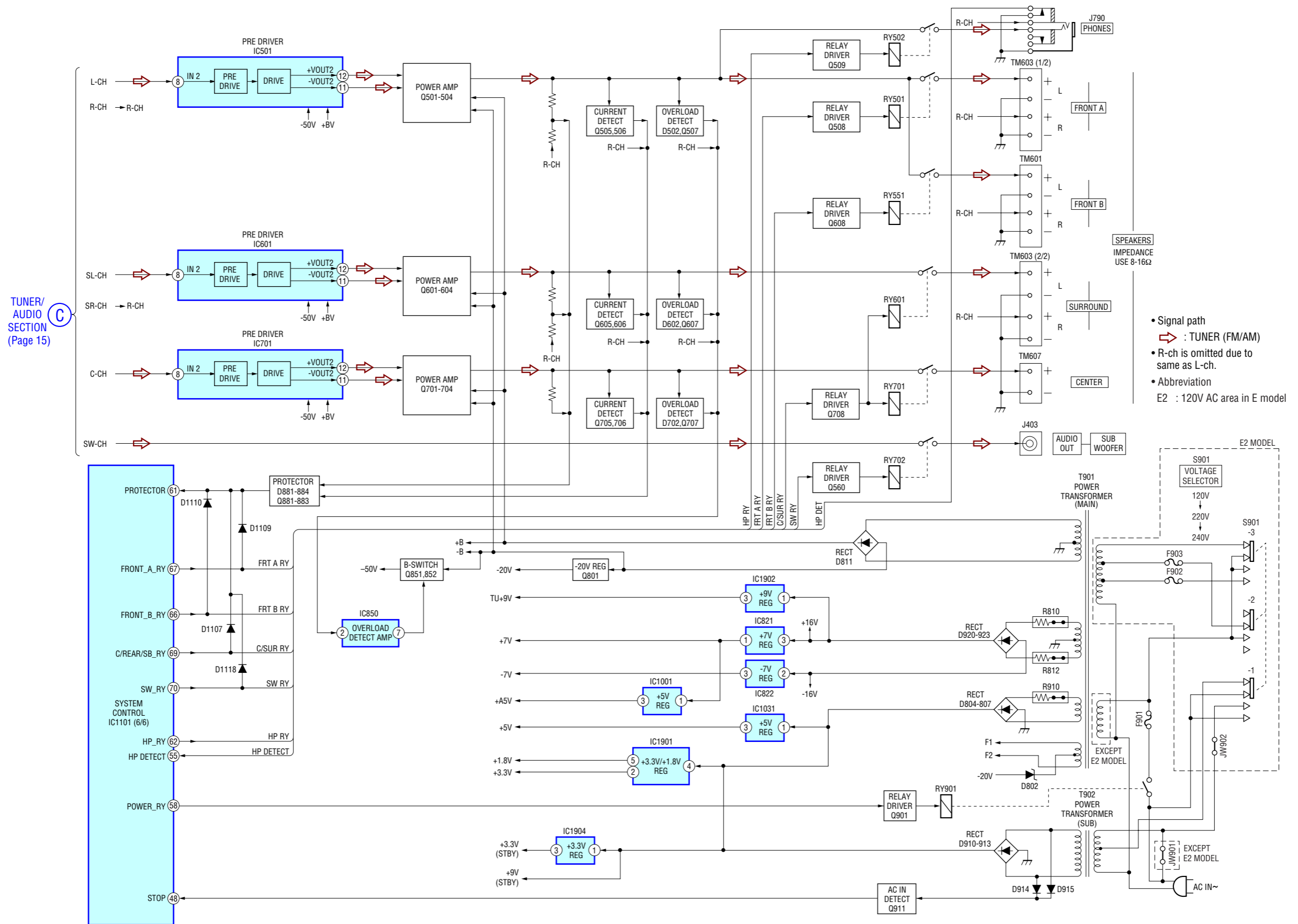
5-4. BLOCK DIAGRAM — HDMI SW SECTION —



5-5. BLOCK DIAGRAM — KEY/DISPLAY SECTION —






5-6. BLOCK DIAGRAM — POWER SECTION —










**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 diagram:**



- All capacitors are in  $\mu\text{F}$  unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.
- $\Delta$  : internal component.
-  : nonflammable resistor.
-  : fusible resistor.
-  : panel designation.

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

**Note:**  
Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

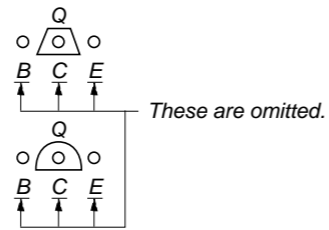
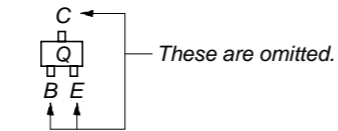
-  : B+ Line.
-  : B- Line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions. no mark : FM
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  -  : TUNER (FM/AM)
  -  : VIDEO (AUDIO)
  -  : VIDEO
  -  : DVD (DIGITAL)
  -  : CD (ANALOG)
- Abbreviation
  - CND : Canadian model
  - AUS : Australian model
  - E2 : 120 V AC area in E model
  - KR : Korea model
  - MY : Malaysia model
  - SP : Singapore model
  - TH : Thai model
  - TW : Taiwan model

**for printed wiring boards:**

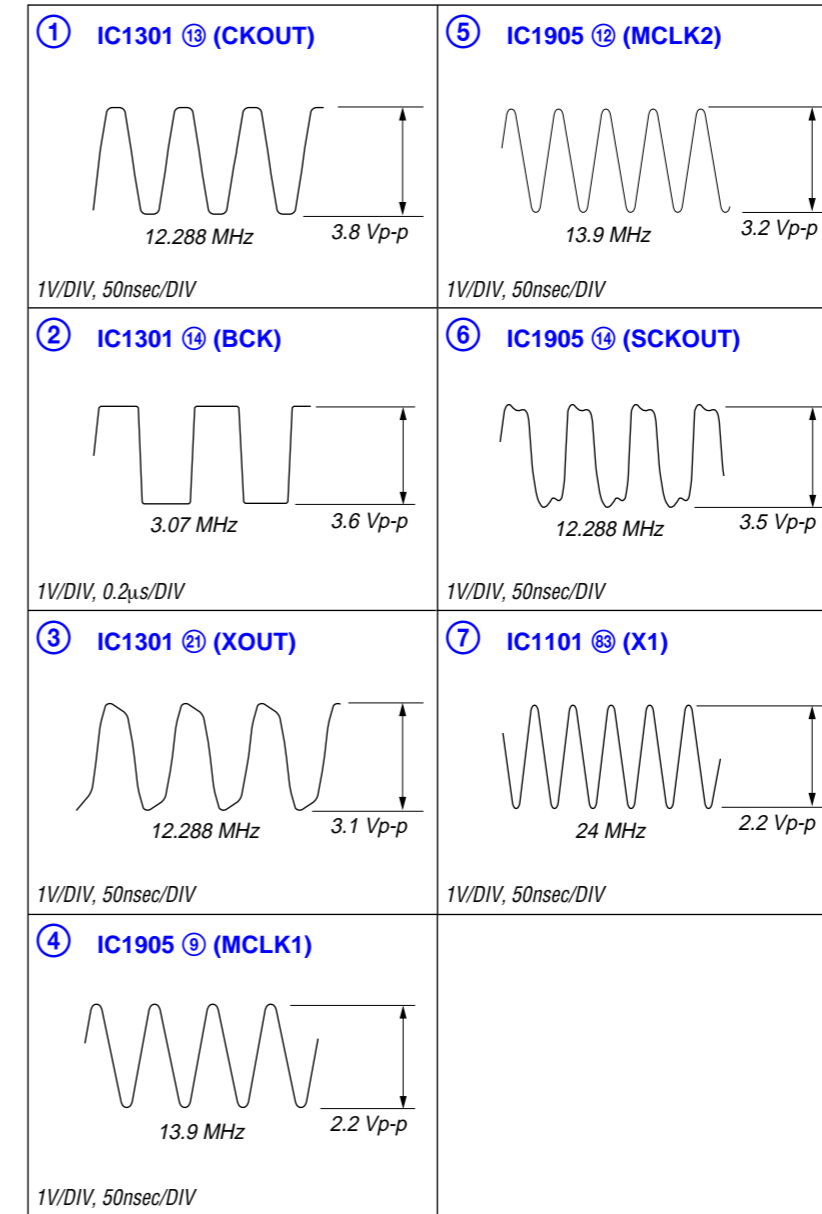
-  : parts extracted from the component side.
- $\Delta$  : internal component.
-  : Pattern from the side which enables seeing.

**Caution:**  
Pattern face side: Parts on the pattern face side seen from the (Side B) pattern face are indicated.  
Parts face side: Parts on the parts face side seen from the (Side A) parts face are indicated.

- Abbreviation
  - CND : Canadian model
  - AUS : Australian model
  - E2 : 120 V AC area in E model
  - KR : Korea model
  - MY : Malaysia model
  - SP : Singapore model
  - TH : Thai model
  - TW : Taiwan model



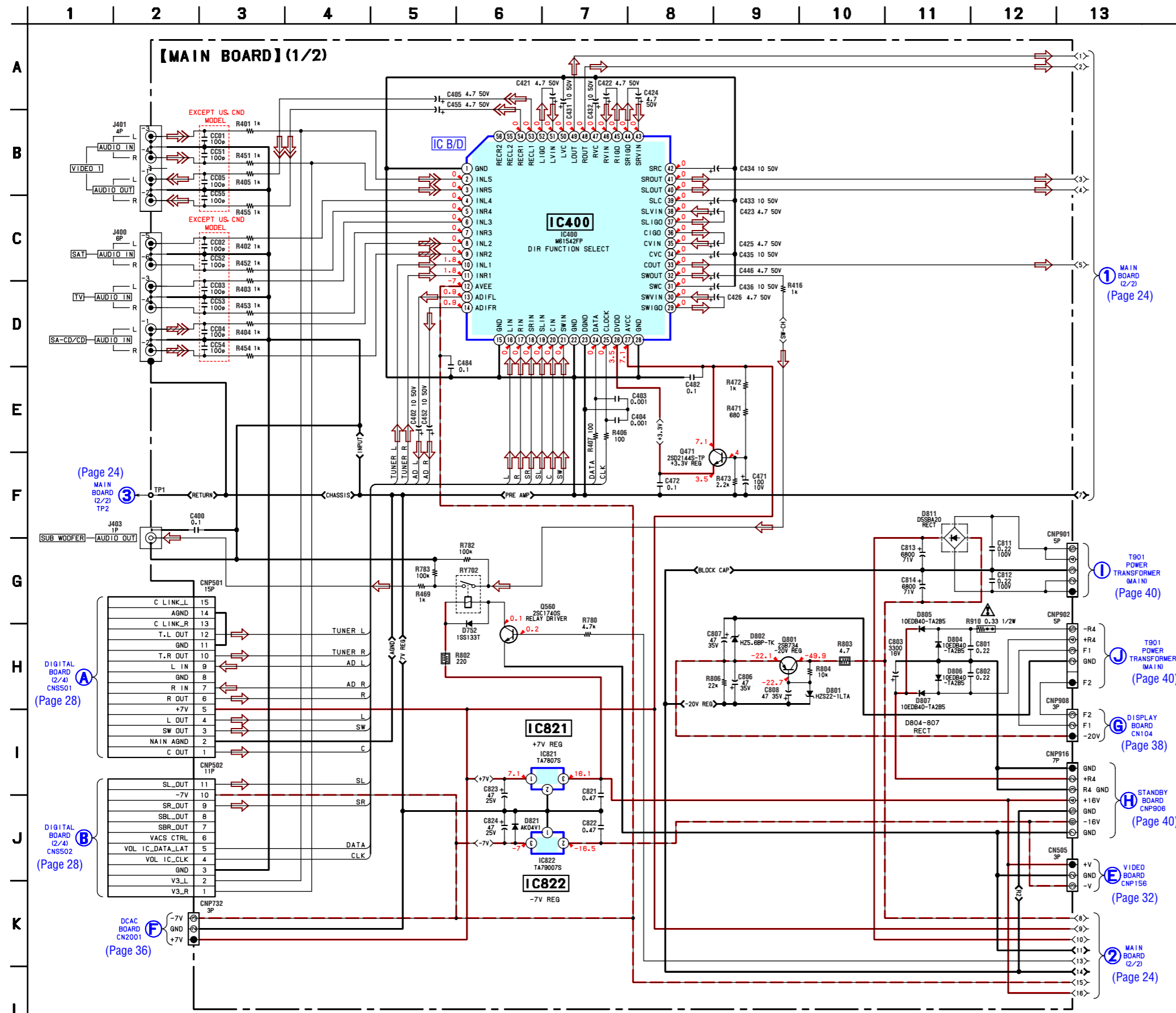
**• Waveforms**  
— DIGITAL Board —





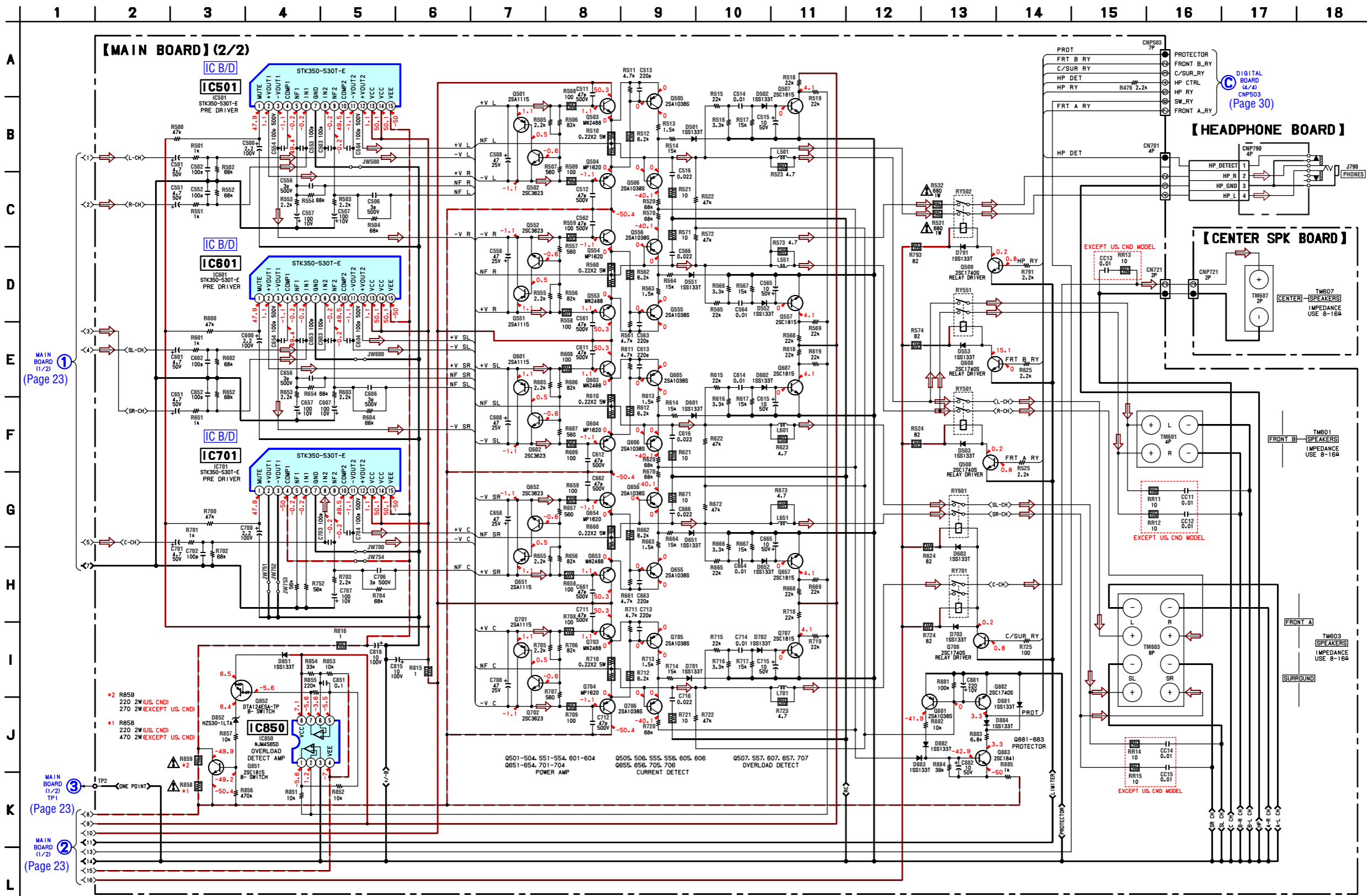


5-8. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — • Refer to page 41 for IC Block Diagrams.





5-9. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 41 for IC Block Diagrams.



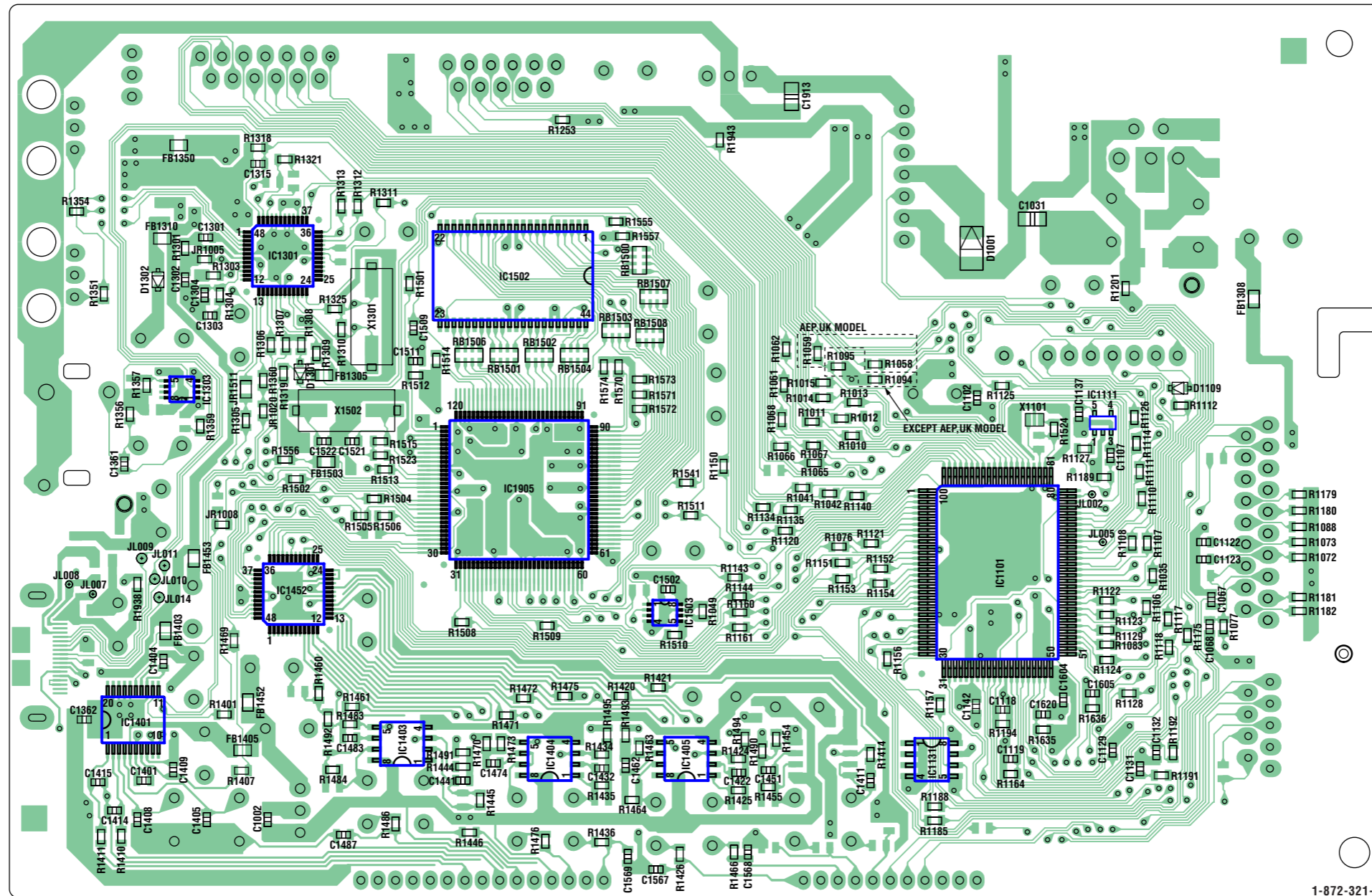


5-10. PRINTED WIRING BOARD — DIGITAL SECTION (1/2) — • Refer to page 14 for Circuit Boards Location.  : Uses unleaded solder.

14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

A  
B  
C  
D  
E  
F  
G  
H  
I


【DIGITAL BOARD】(SIDE A)

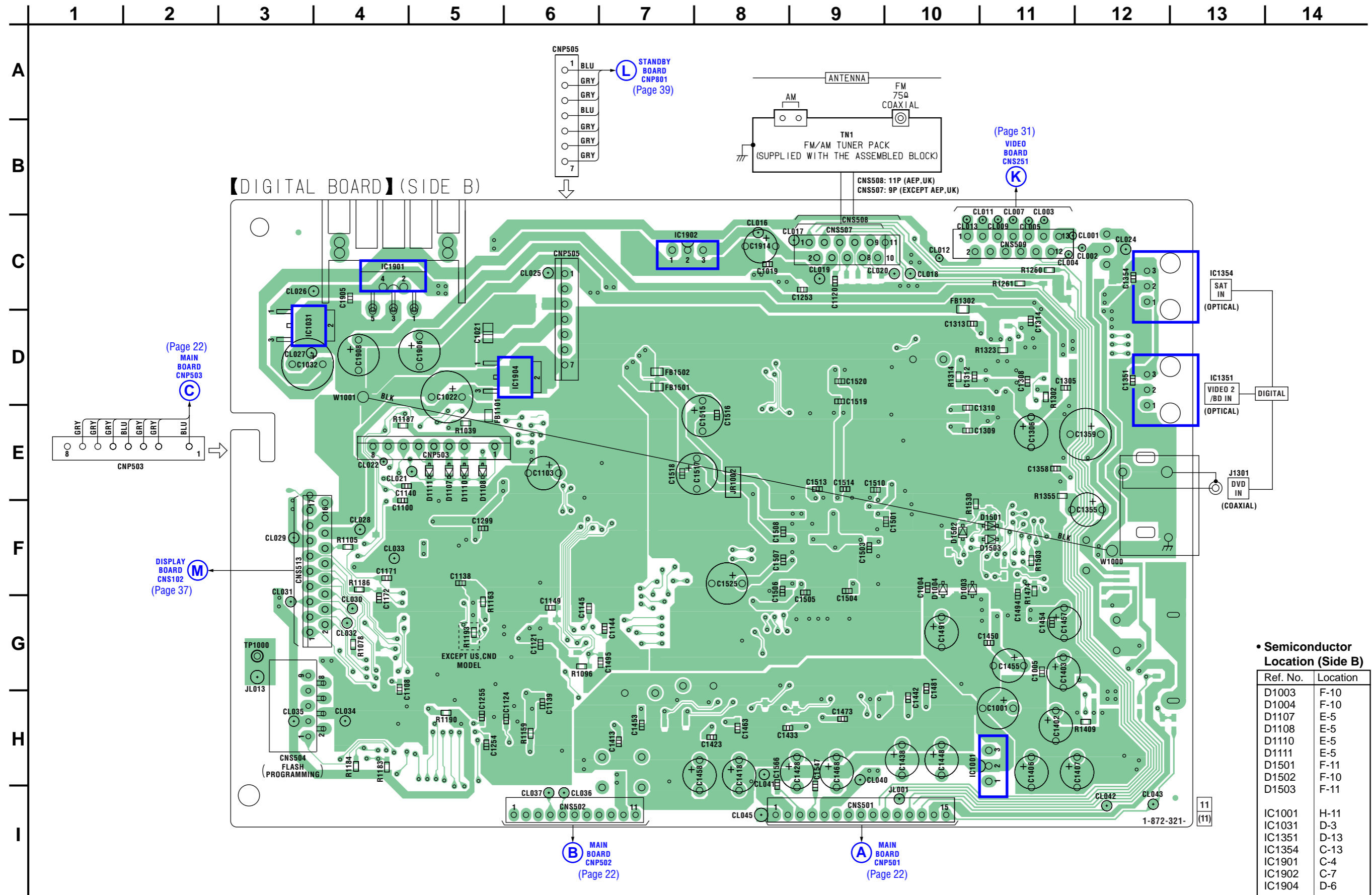


• Semiconductor Location (Side A)

Ref. No.	Location
D1001	D-6
D1109	E-4
D1301	E-11
D1302	D-12
IC1101	G-5
IC1111	E-5
IC1131	H-6
IC1301	D-11
IC1303	E-11
IC1401	H-12
IC1403	H-10
IC1404	H-9
IC1405	H-8
IC1452	G-11
IC1502	D-9
IC1503	G-8
IC1905	F-9

1-872-321- (11)

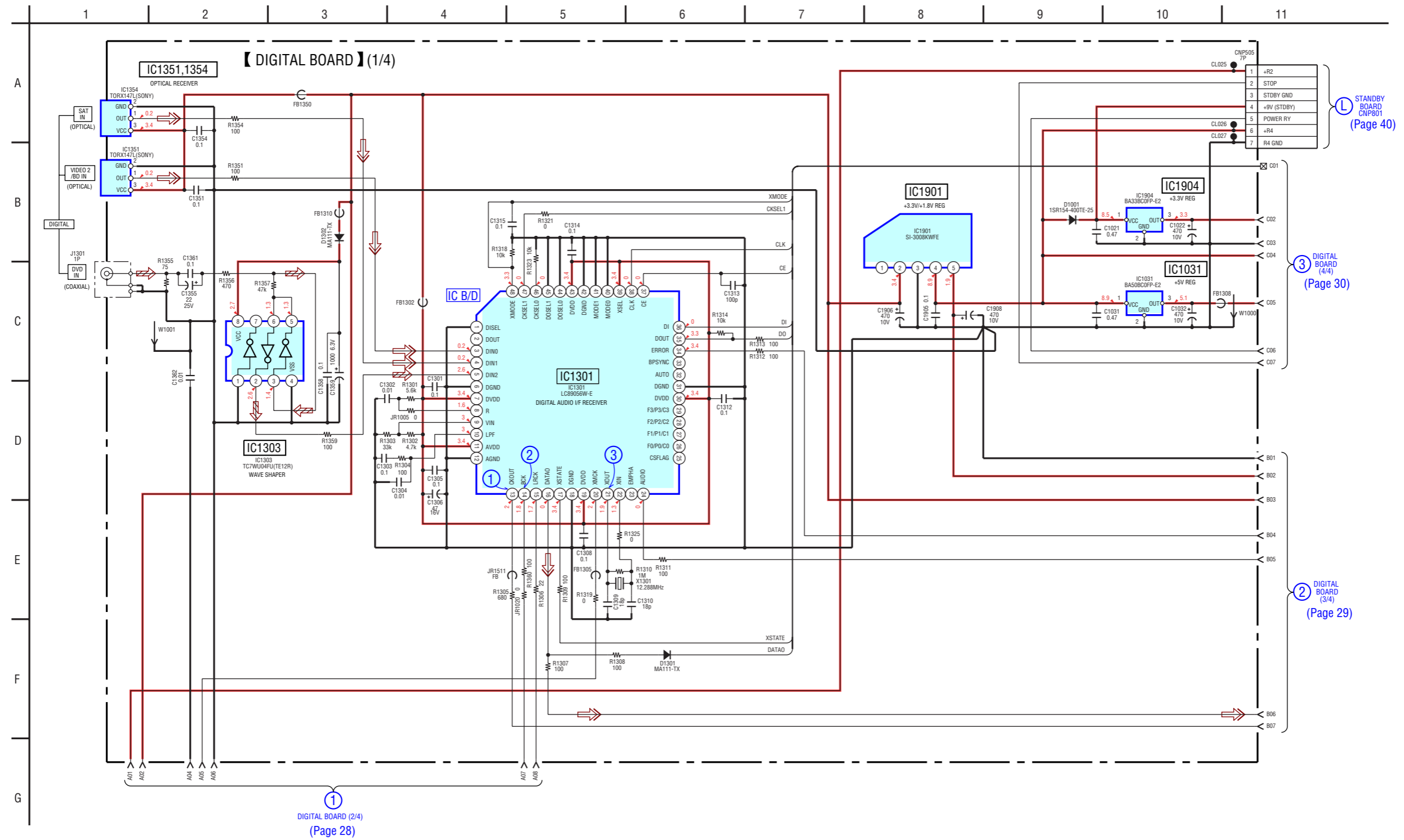
5-11. PRINTED WIRING BOARD — DIGITAL SECTION (2/2) — • Refer to page 14 for Circuit Boards Location.  : Uses unleaded solder.



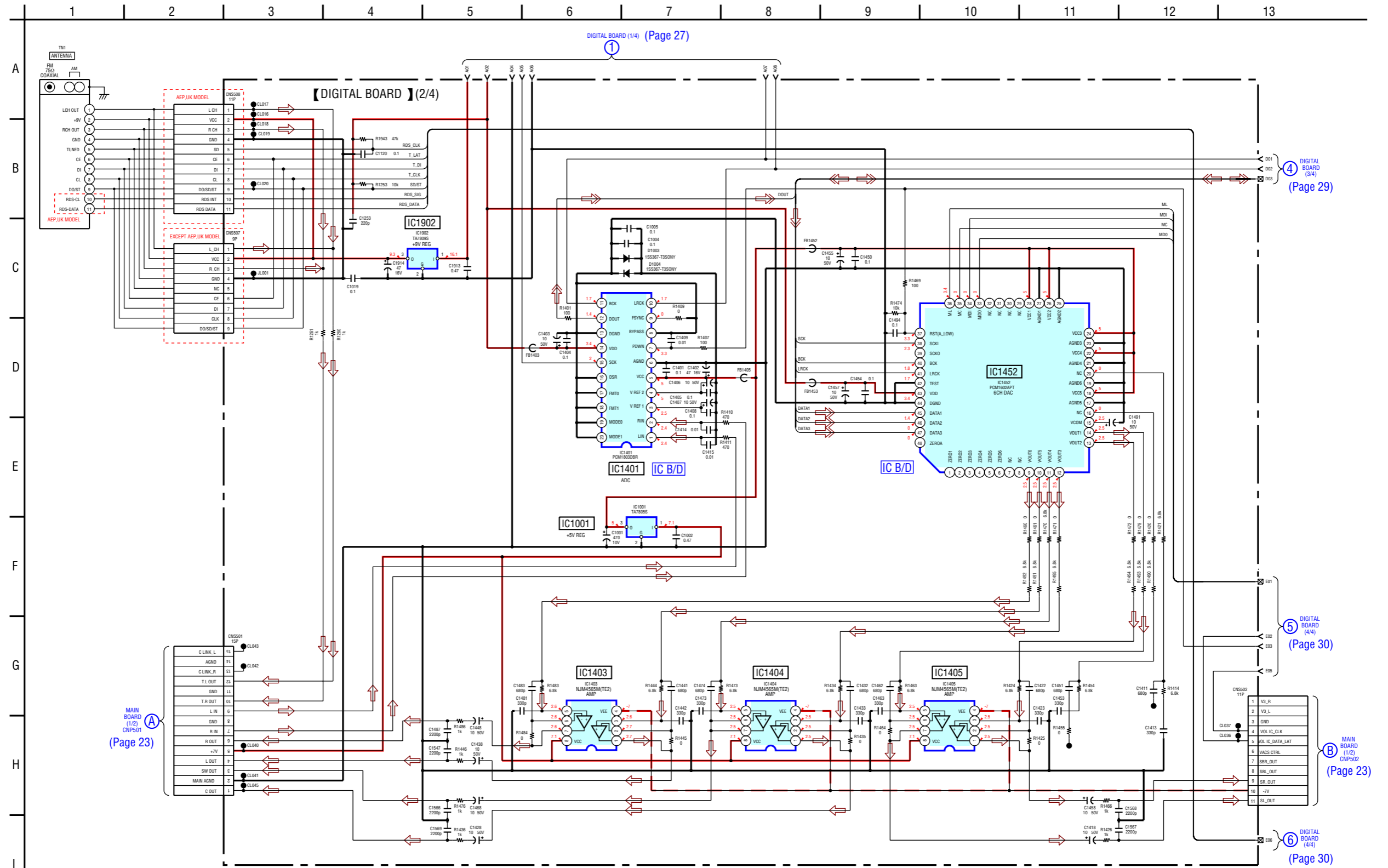
• Semiconductor Location (Side B)

Ref. No.	Location
D1003	F-10
D1004	F-10
D1107	E-5
D1108	E-5
D1110	E-5
D1111	E-5
D1501	F-11
D1502	F-10
D1503	F-11
IC1001	H-11
IC1031	D-3
IC1351	D-13
IC1354	C-13
IC1901	C-4
IC1902	C-7
IC1904	D-6

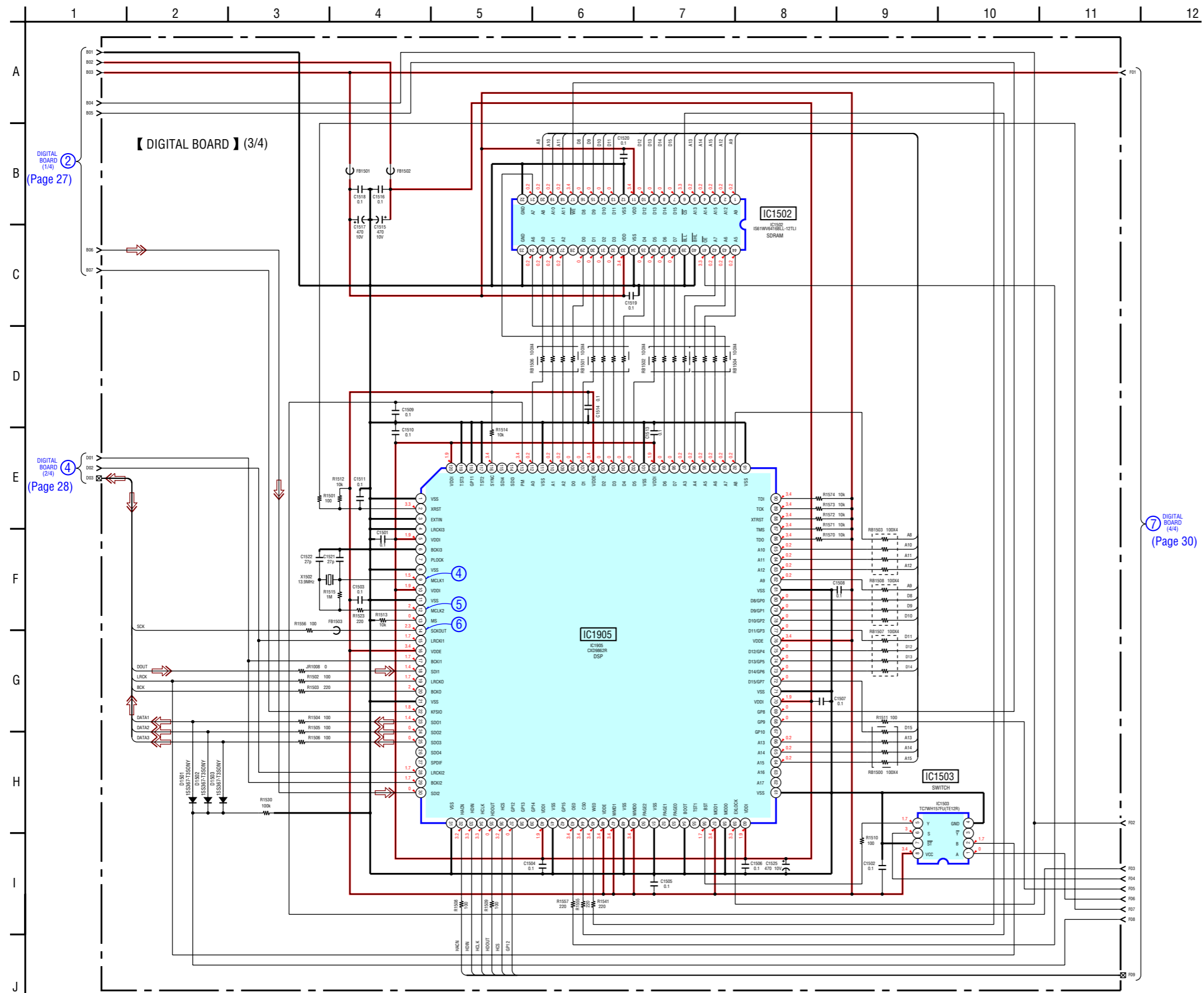
5-12. SCHEMATIC DIAGRAM — DIGITAL SECTION (1/4) — • Refer to page 21 for Waveforms and page 42 for IC Block Diagrams.



5-13. SCHEMATIC DIAGRAM — DIGITAL SECTION (2/4) — • Refer to page 42 for IC Block Diagrams.

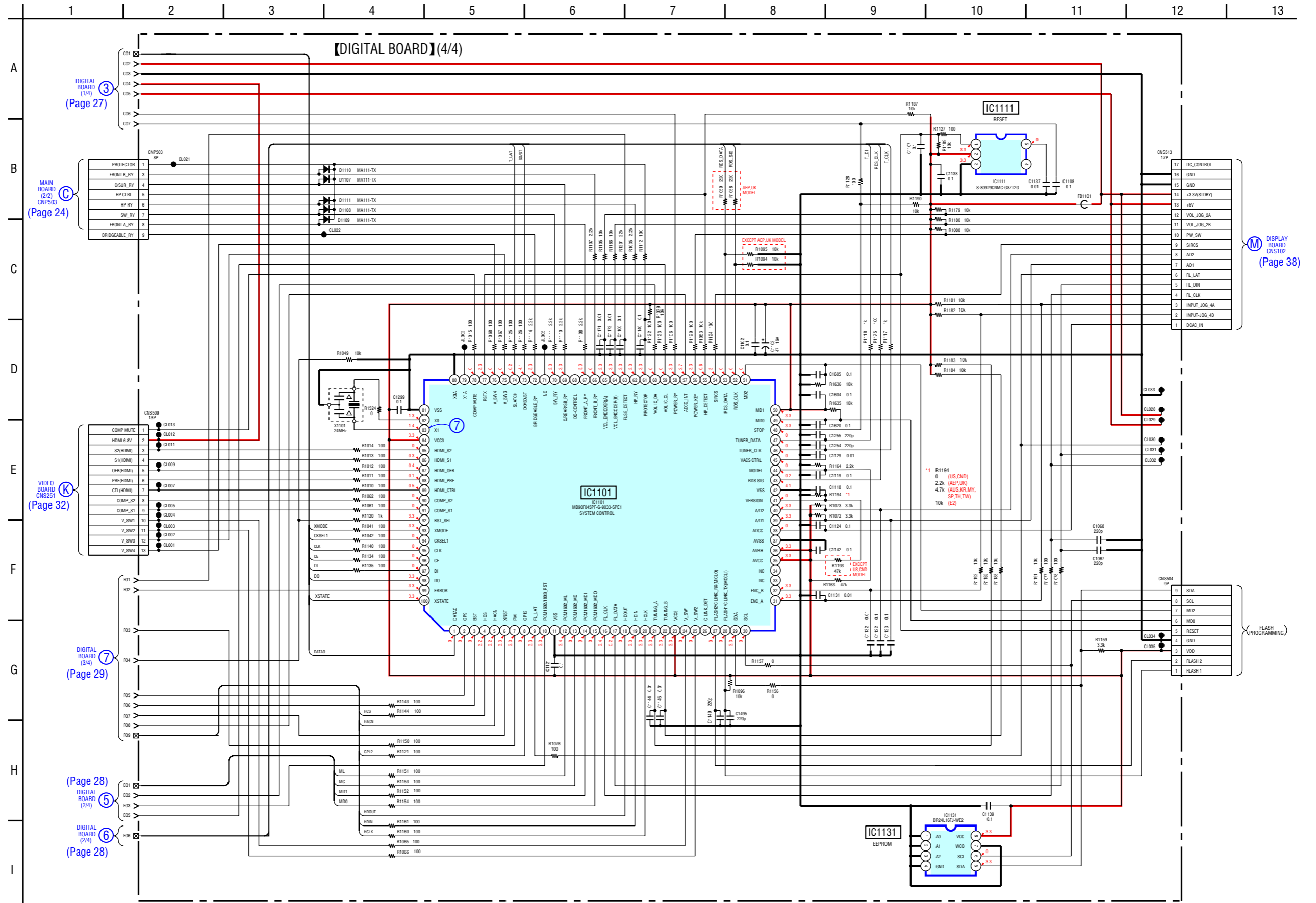



5-14. SCHEMATIC DIAGRAM — DIGITAL SECTION (3/4) — • Refer to page 21 for Waveforms and page 45 IC Pin Descriptions.

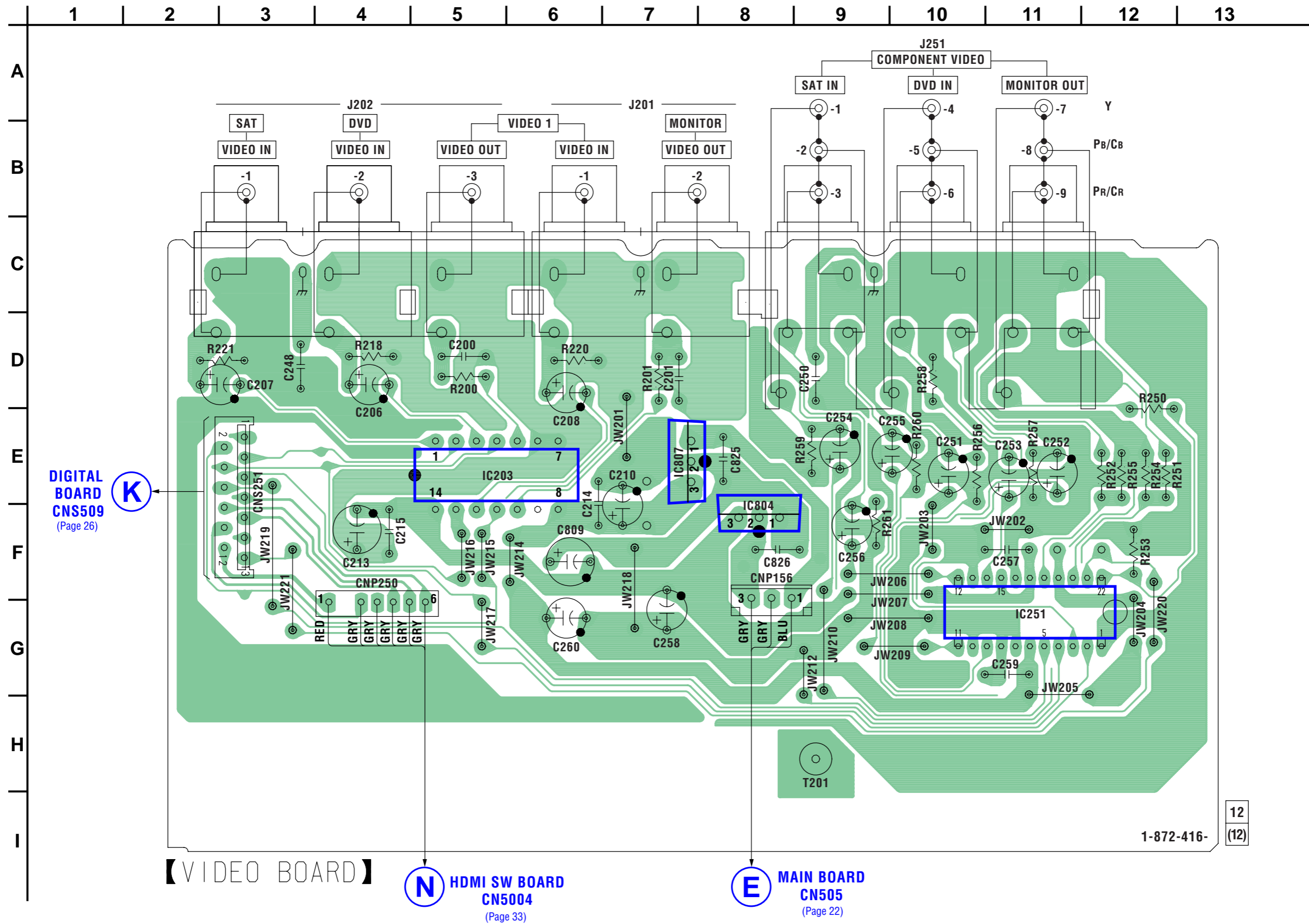




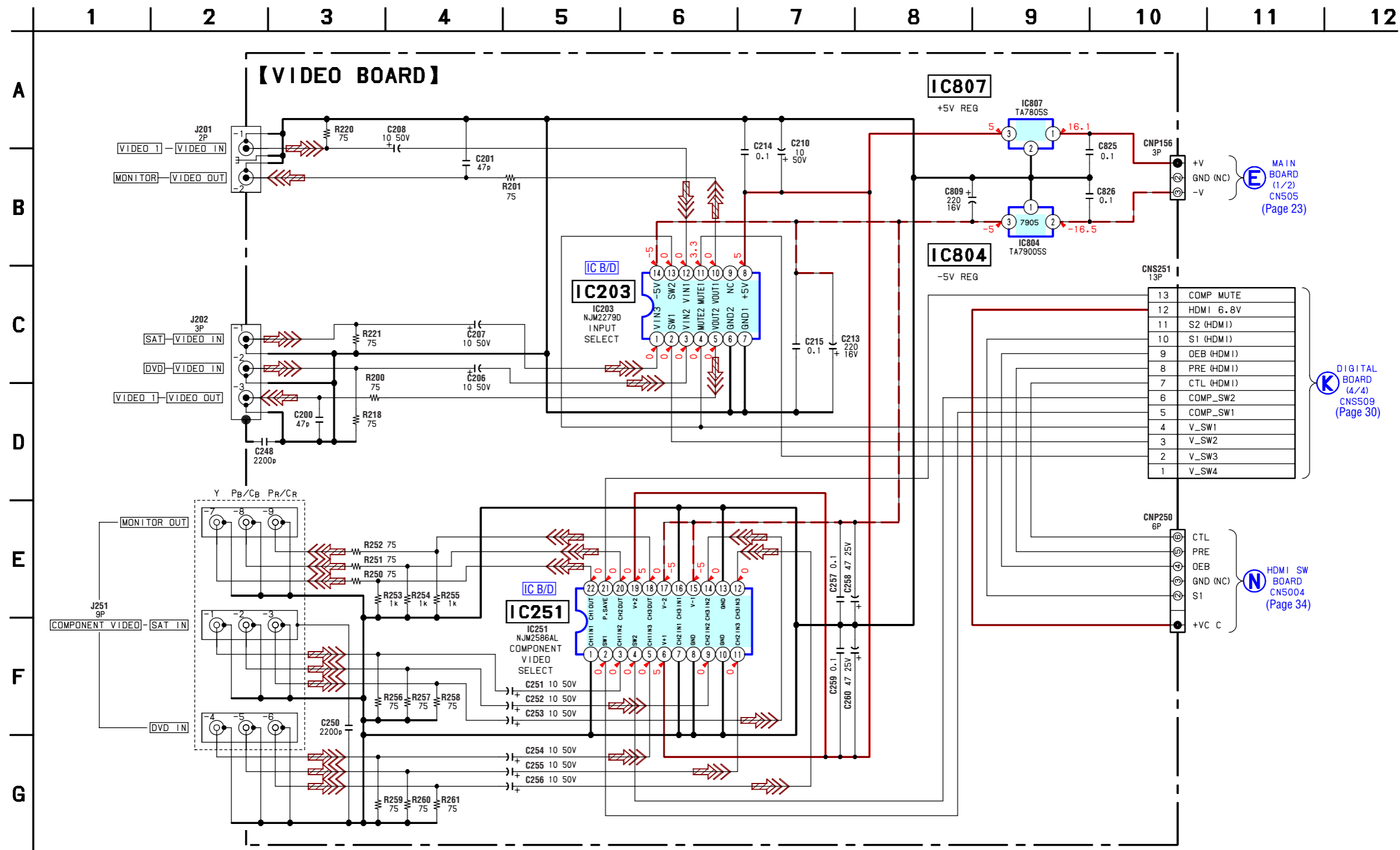
5-15. SCHEMATIC DIAGRAM — DIGITAL SECTION (4/4) — • Refer to page 21 for Waveforms and page 47 for IC Pin Descriptions.




5-16. PRINTED WIRING BOARD — VIDEO SECTION — • Refer to page 14 for Circuit Boards Location.  : Uses unleaded solder.

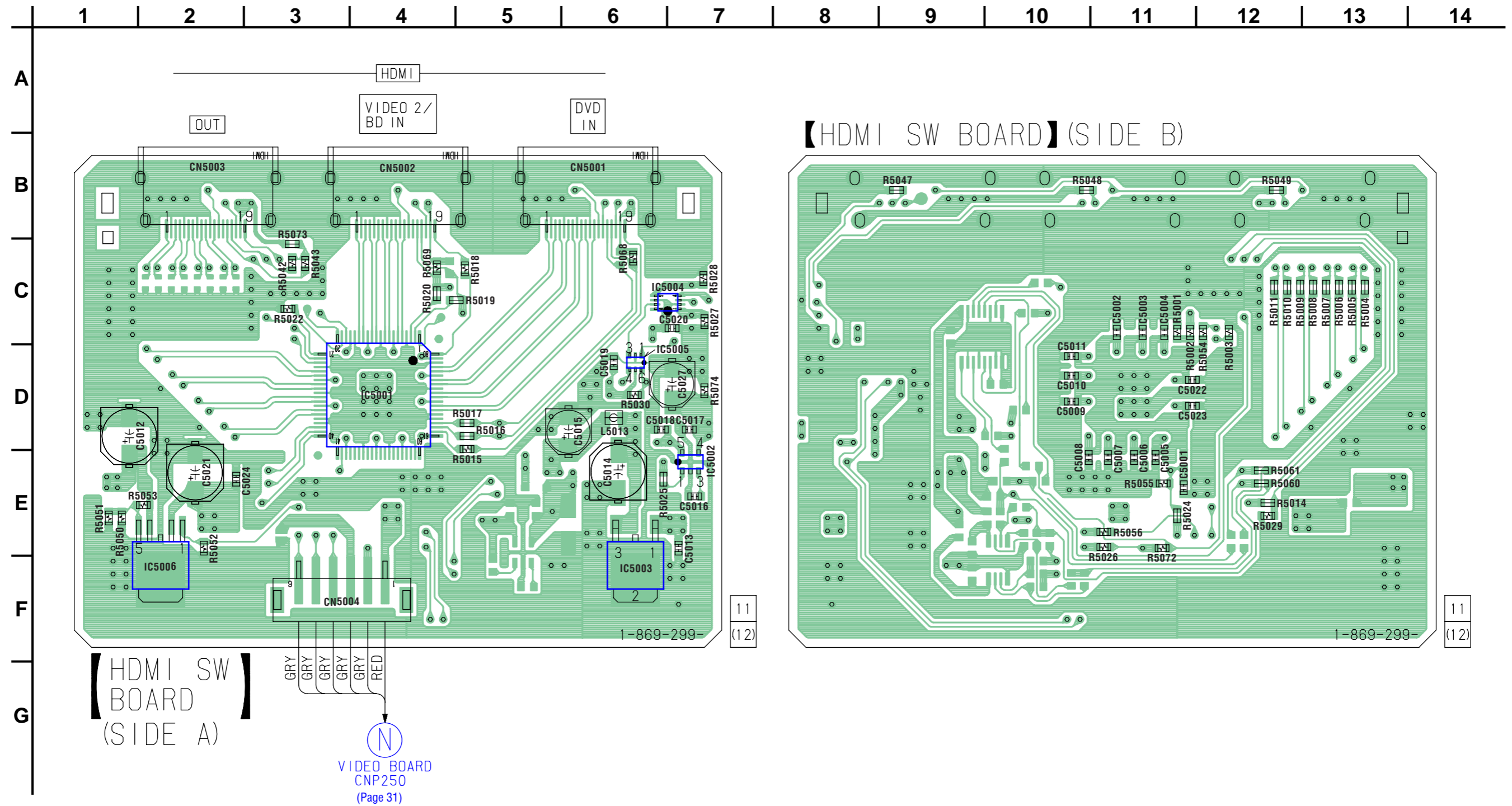


5-17. SCHEMATIC DIAGRAM — VIDEO SECTION — • Refer to page 43 for IC Block Diagrams.





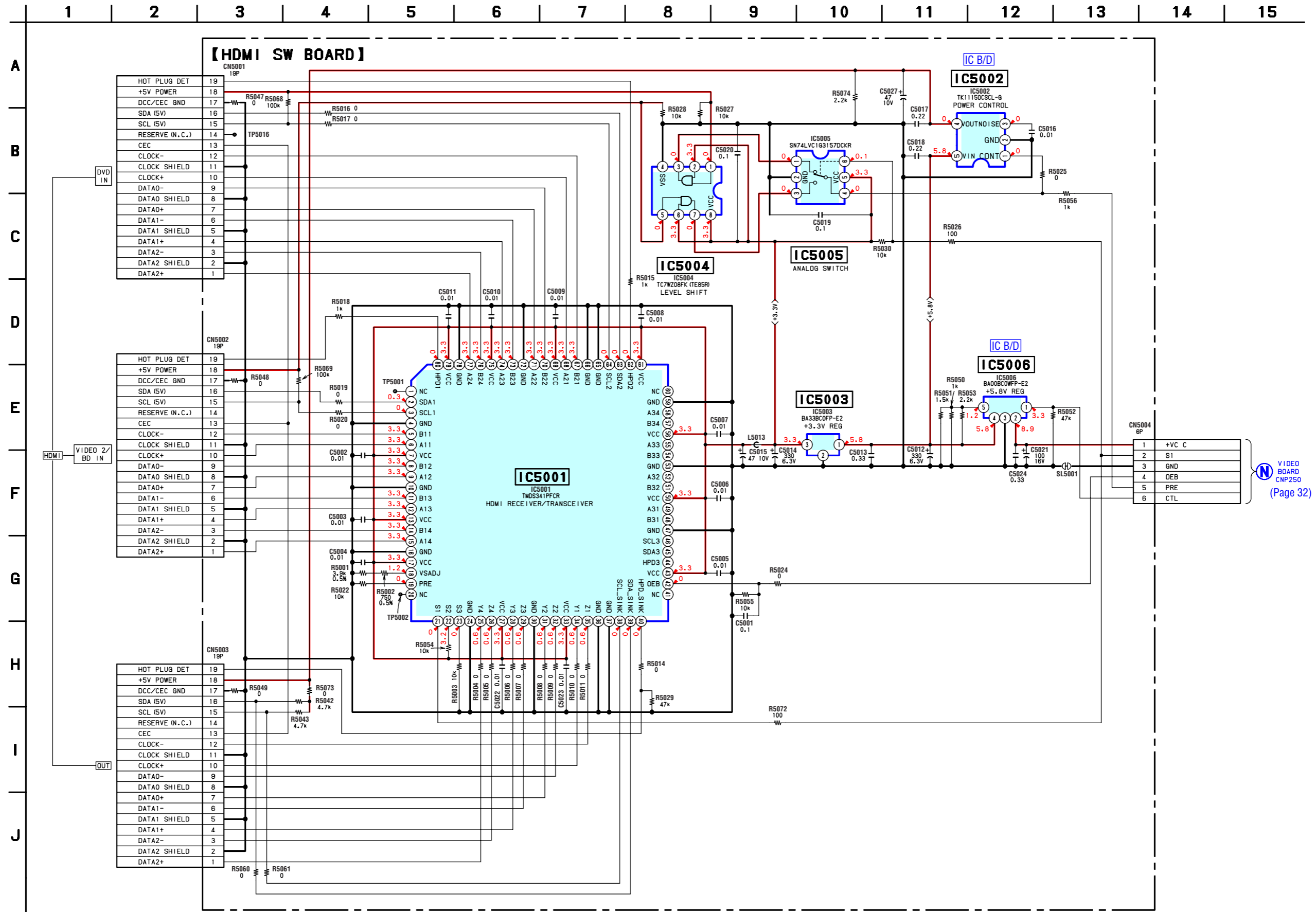
5-18. PRINTED WIRING BOARD — HDMI SW SECTION — • Refer to page 14 for Circuit Boards Location.  : Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
IC5001	D-4
IC5002	E-7
IC5003	F-6
IC5004	C-7
IC5005	D-6
IC5006	F-2

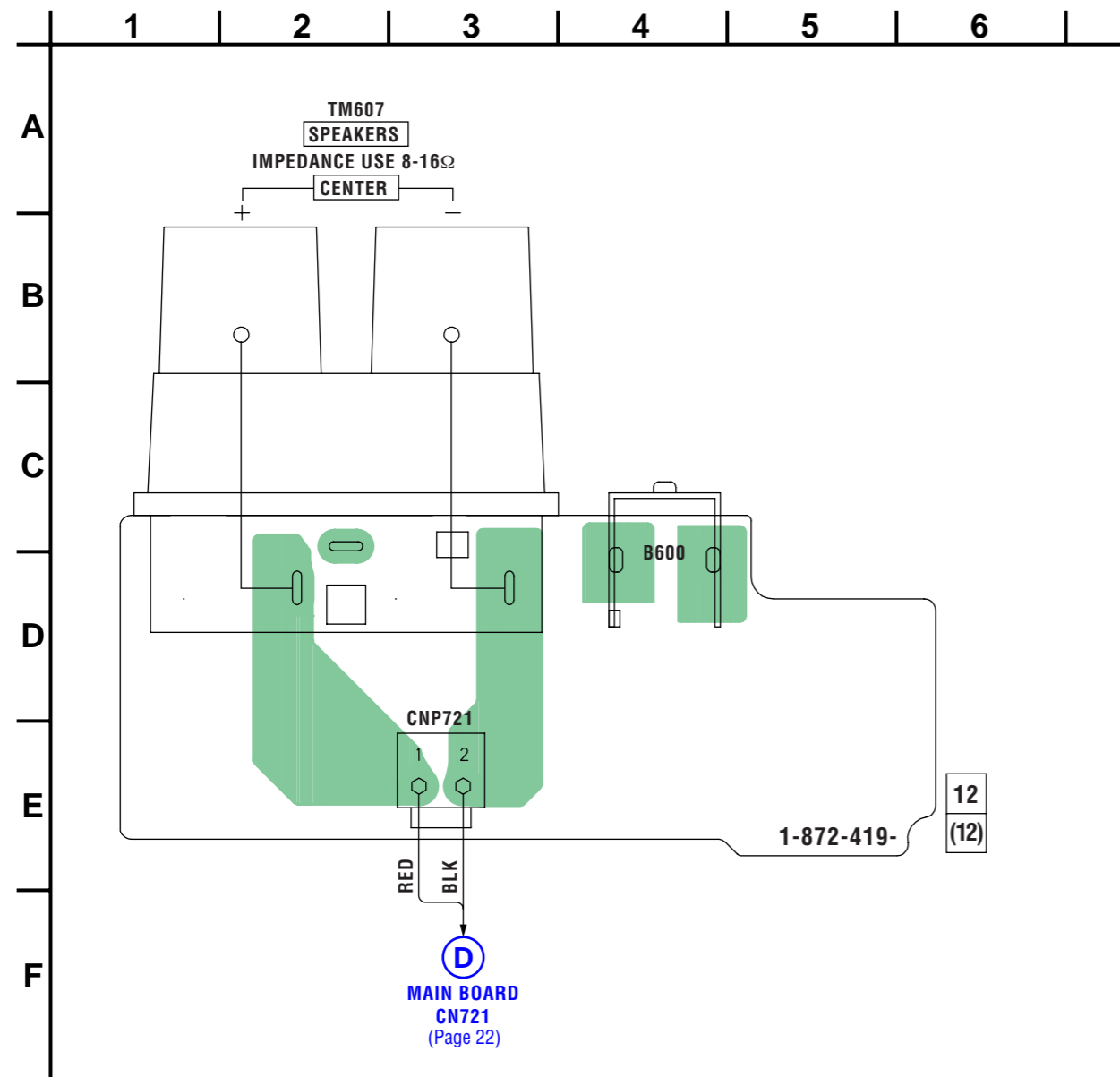
5-19. SCHEMATIC DIAGRAM — HDMI SW SECTION — • Refer to page 44 for IC Block Diagrams.



VIDEO BOARD CNP250 (Page 32)

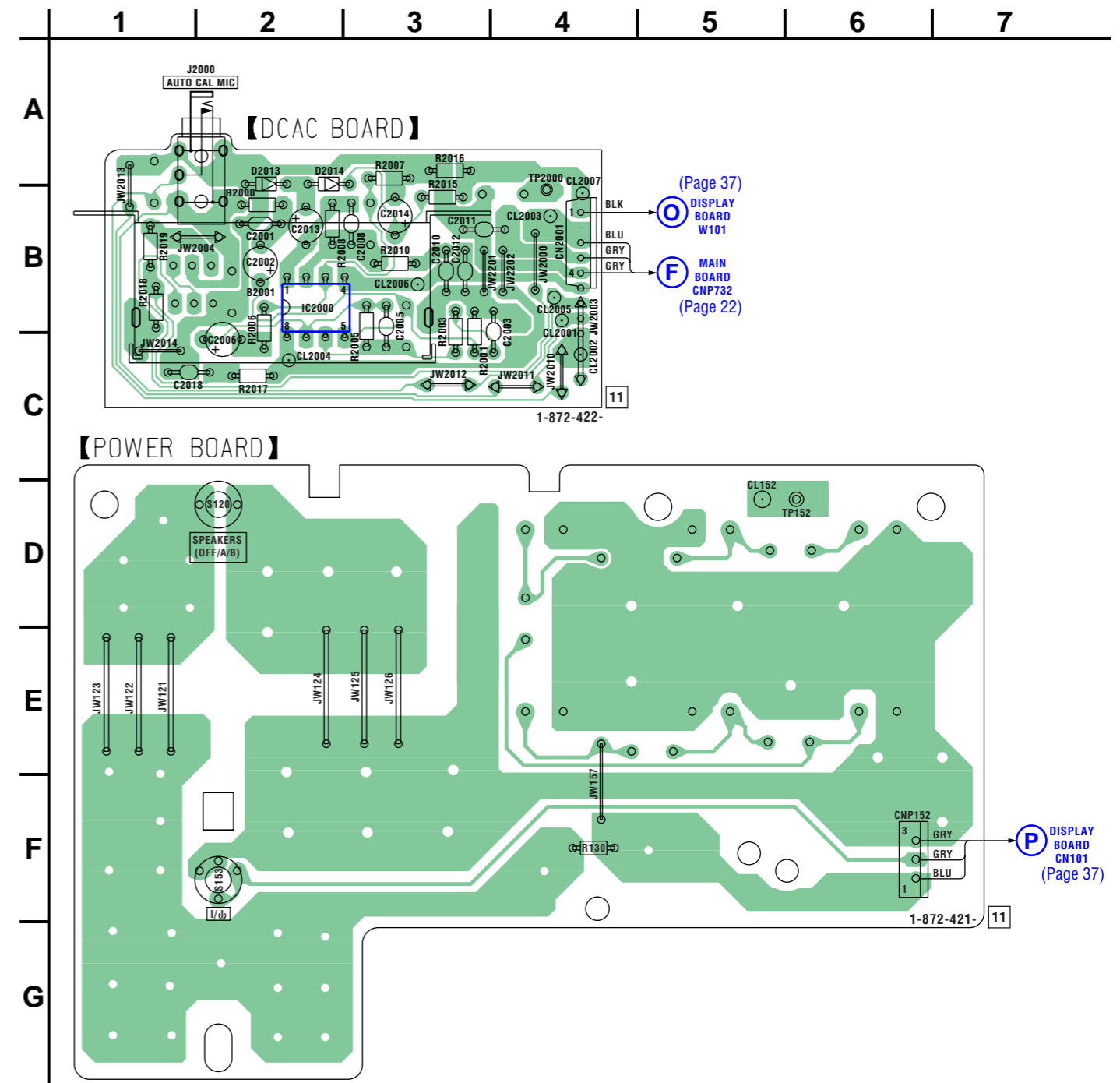
5-20. PRINTED WIRING BOARD — CENTER SPEAKER SECTION —

• Refer to page 14 for Circuit Boards Location. **LF** : Uses unleaded solder.

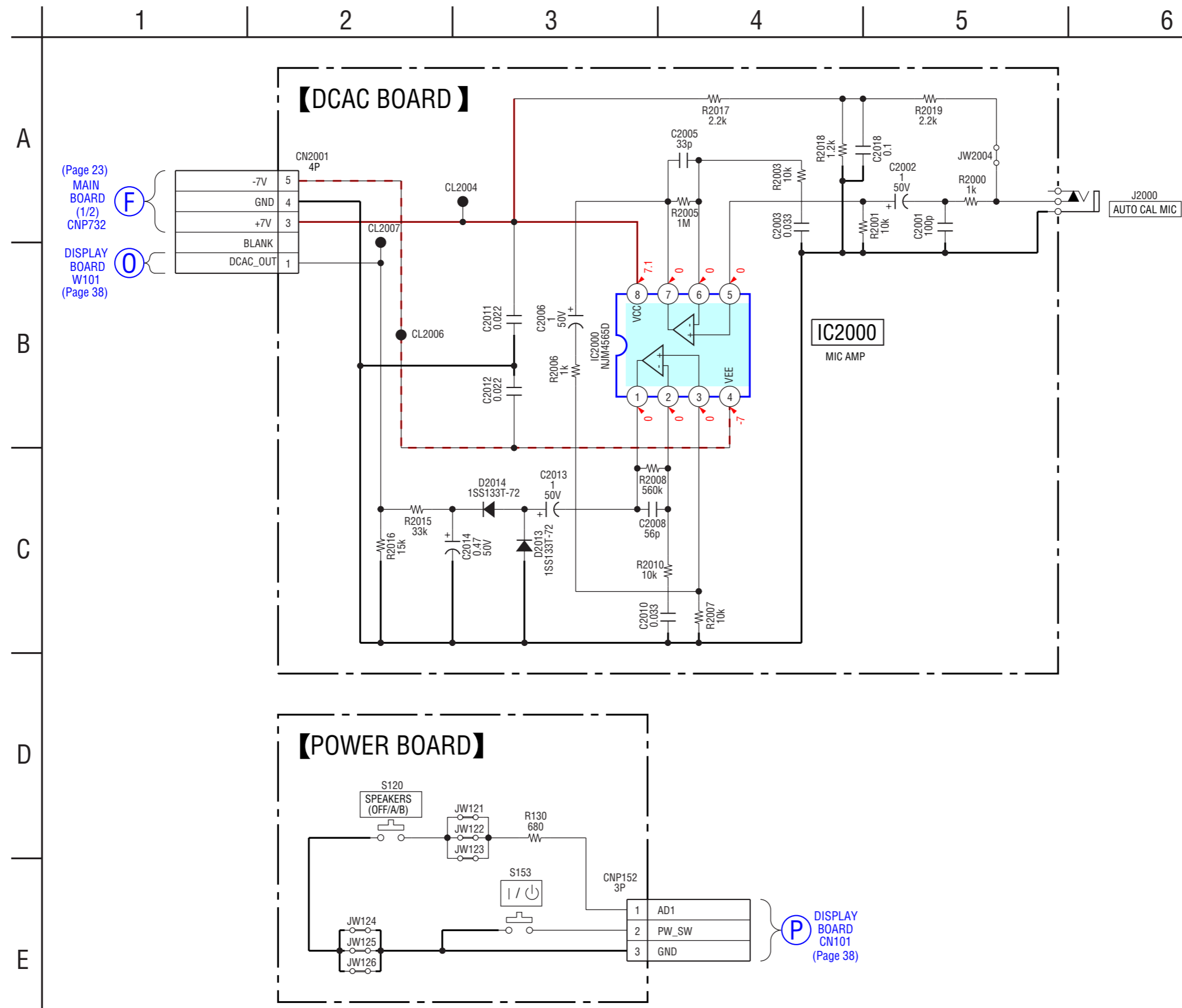


5-21. PRINTED WIRING BOARDS — DCAC, POWER KEY SECTION —

• Refer to page 14 for Circuit Boards Location. **LF** : Uses unleaded solder.



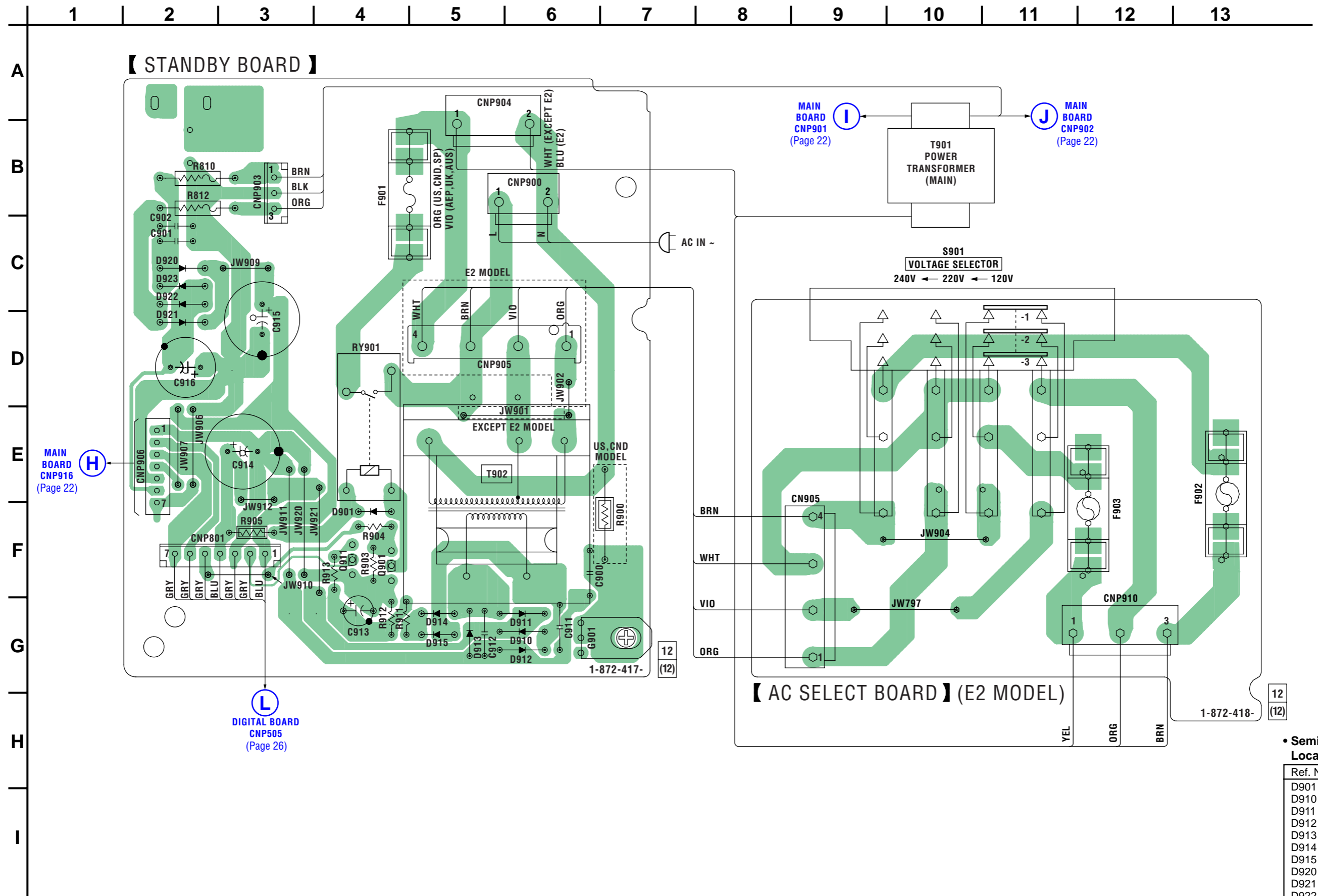
5-22. SCHEMATIC DIAGRAM — DCAC, POWER KEY SECTION —







5-25. PRINTED WIRING BOARD — POWER SECTION — • Refer to page 14 for Circuit Boards Location.  : Uses unleaded solder.

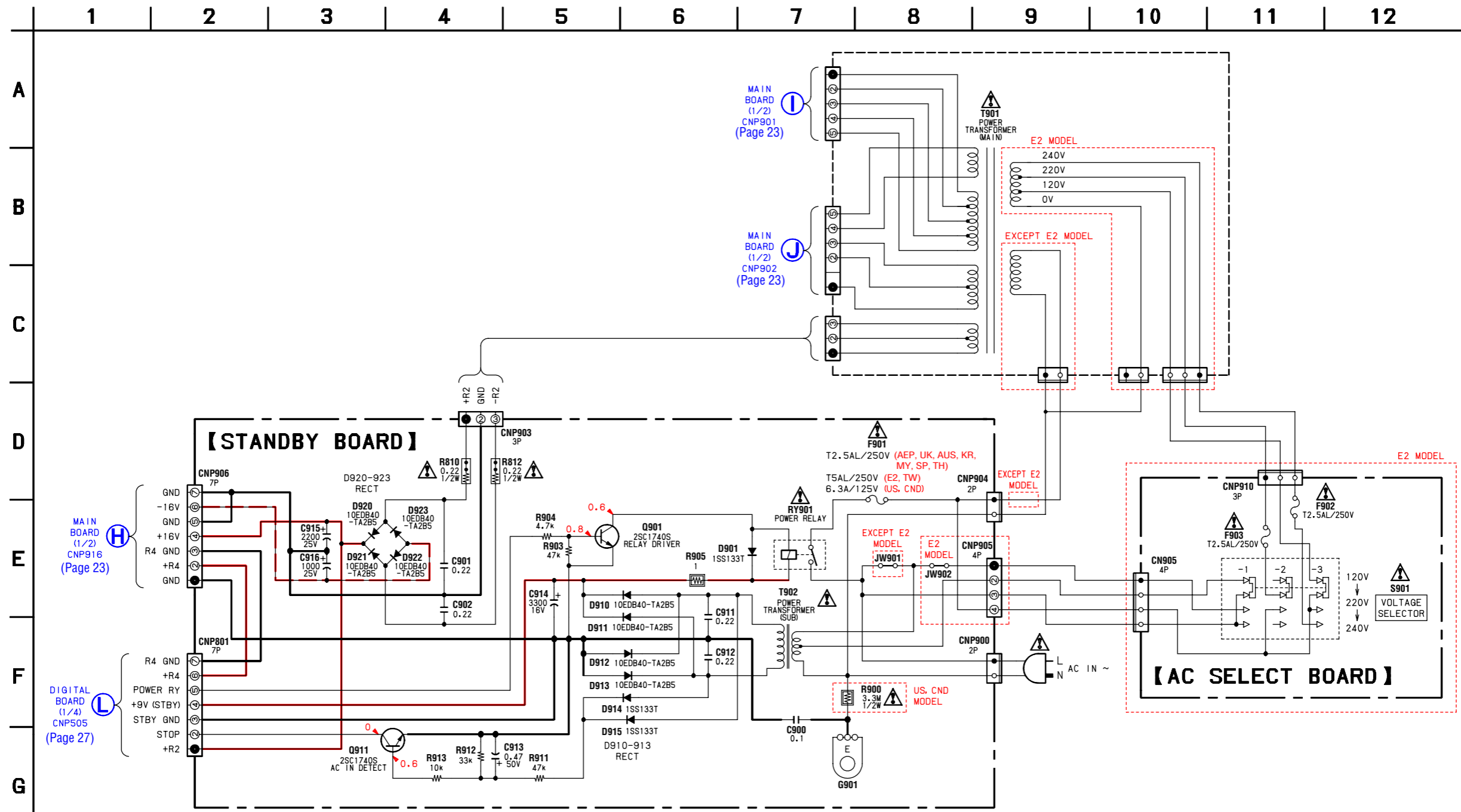


• Semiconductor Location

Ref. No.	Location
D901	F-4
D910	G-6
D911	G-6
D912	G-6
D913	G-5
D914	G-5
D915	G-5
D920	C-2
D921	D-2
D922	C-2
D923	C-2
Q901	F-4
Q911	F-4



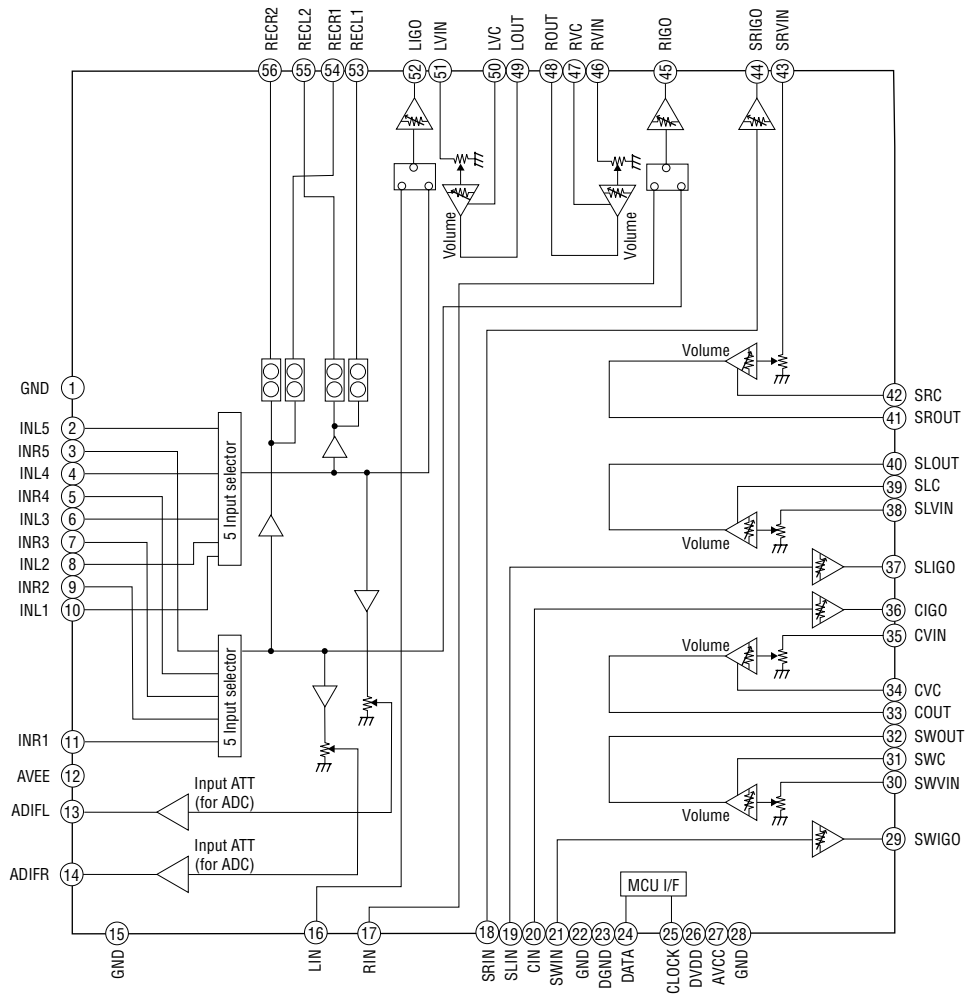
5-26. SCHEMATIC DIAGRAM — POWER SECTION —





• IC Block Diagrams

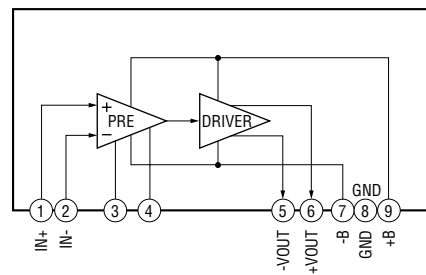
IC400 M61542FP (MAIN BOARD (1/2))



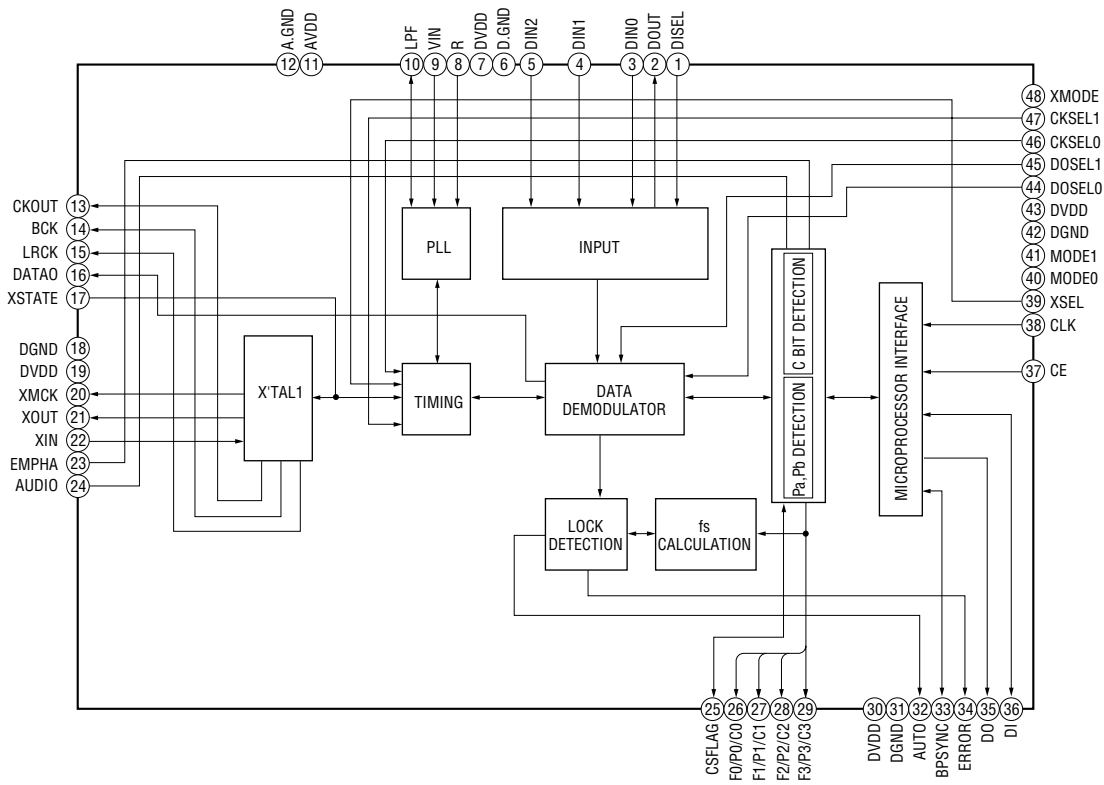
IC501 STK350-530T-E (MAIN BOARD (2/2))

IC601 STK350-530T-E (MAIN BOARD (2/2))

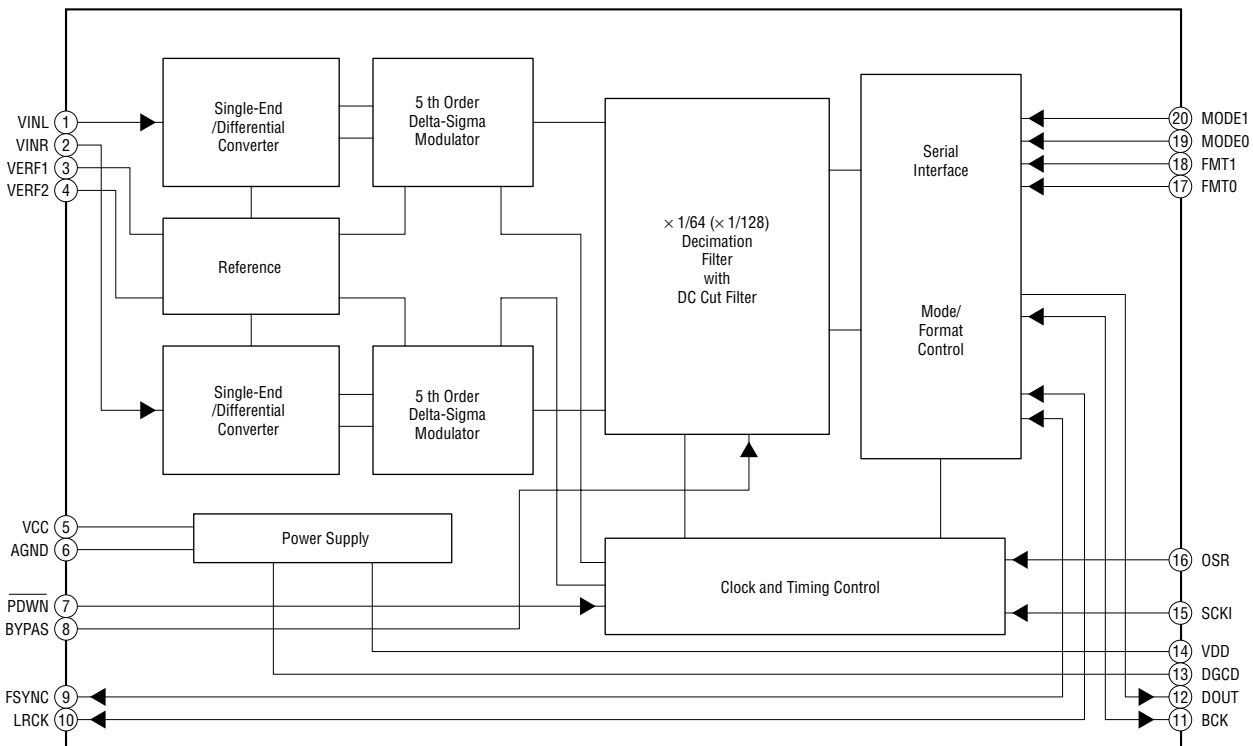
IC701 STK350-530T-E (MAIN BOARD (2/2))



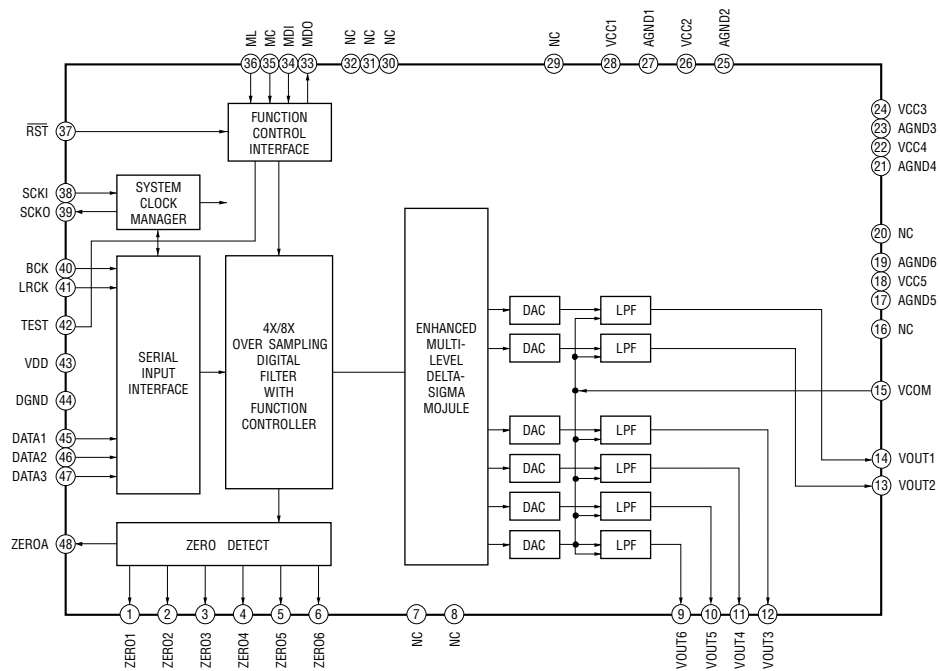
IC1301 LC89056W-E (DIGITAL BOARD (1/4))



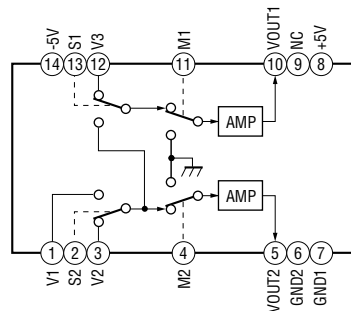
IC1401 PCM1803DBR (DIGITAL BOARD (2/4))



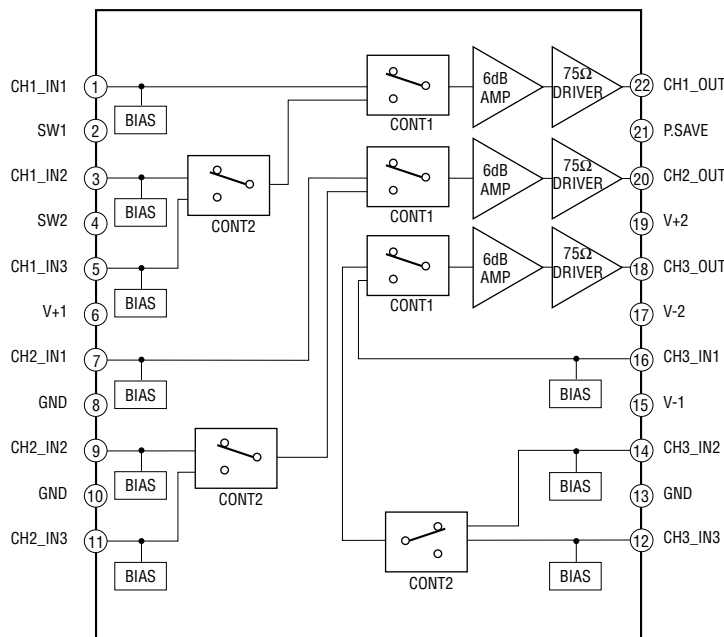
IC1452 PCM1602APT (DIGITAL BOARD (2/4))



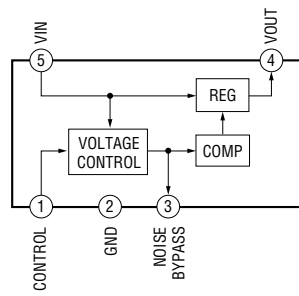
IC203 NJM2279D (VIDEO BOARD)



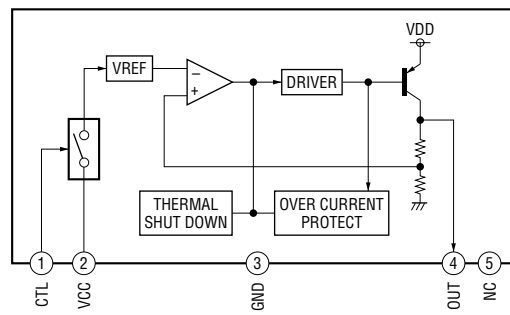
IC251 NJM2586AL (VIDEO BOARD)



IC5002 TK11150CSCL-G (HDMI SW BOARD)



IC5006 BA00BC0WFP-E2 (HDMI SW BOARD)



## • IC Pin Descriptions

## IC1905 CXD9862R (DSP) (DIGITAL BOARD (3/4))

Pin No.	Pin Name	I/O	Pin Description
1	VSS	—	Ground
2	XRST	I	Reset signal input from SYSTEM CONTROL IC
3	EXTIN	I	Not used (Connect to ground)
4	LRCKI3	I	Not used (Connect to ground)
5	VDDI	I	Power supply pin (+1.9 V)
6	BCKI3	I	Not used (Connect to ground)
7	PLOCK	O	Not used (Open)
8	VSS	—	Ground
9	MCLK1	I	Clock signal input (13.9 MHz)
10	VDDI	I	Power supply pin (+1.9 V)
11	VSS	—	Ground
12	MCLK2	O	Clock signal output (13.9 MHz)
13	MS	I	Not used (Fixed at L)
14	SCKOUT	O	Internal system clock signal output for 6CH DAC IC
15	LRCKI1	I	Sampling clock signal input from ADC IC
16	VDDE	I	Power supply pin (+3.4 V)
17	BCKI1	I	Bit clock signal input from ADC IC
18	SDI1	I	Audio IF data input from ADC IC
19	LRCKO	O	Sampling clock signal output for 6CH DAC IC
20	BCKO	O	Bit clock signal output for 6CH DAC IC
21	VSS	—	Ground
22	KFSIO	I/O	Audio clock signal (384fs/256fs) input/output for DIR IC
23 to 25	SDO1 to SDO3	O	Digital audio serial data output for 6CH DAC IC
26	SDO4	O	Not used (Open)
27	SPDIF	O	Not used (Open)
28	LRCKI2	I	Sampling clock signal input from ADC IC
29	BCKI2	I	Bit clock signal input from ADC IC
30	SDI2	I	Digital audio serial data input from DIR IC
31	VSS	—	Ground
32	HACN	O	Acknowledge signal output for SYSTEM CONTROL IC
33	HDIN	I	Serial data input from SYSTEM CONTROL IC
34	HCLK	I	Clock signal input from SYSTEM CONTROL IC
35	HDOUT	O	Serial data output for SYSTEM CONTROL IC
36	HCS	I	Chip select signal input from SYSTEM CONTROL IC
37	GP12	I	GP12 signal input from SYSTEM CONTROL IC
38, 39	GP13, GP14	O	Not used (Open)
40	VDDI	I	Power supply pin (+1.9 V)
41	VSS	—	Ground
42	GP15	O	Not used (Open)
43	OE0	O	SDRAM output enable signal output for D/A converter IC (SDRAM)
44	CS0	O	External memory chip select signal output for D/A converter IC (SDRAM)
45	WE0	O	SDRAM write enable signal output for D/A converter IC (SDRAM)
46	VDDE	I	Power supply pin (+3.4 V)
47	WMD1	I	Not used (Fixed at H)
48	VSS	—	Ground
49	WMD0	I	Not used (Fixed at H)
50	PAGE2	O	Not used (Open)
51	VSS	—	Ground
52, 53	PAGE1, PAGE0	O	Not used (Open)
54	BOOT	I	Not used (Connect to ground)
55	TST1	O	Not used (Open)

Pin No.	Pin Name	I/O	Pin Description
56	BST	I	Boot stop signal input from SYSTEM CONTROL IC
57	MOD1	I	Operation mode signal input (L: 386fs, H: 256fs) (Fixed at H)
58	MOD0	I	Operation mode signal input (L: single chip mode, H: use prohibited) (Fixed at L)
59	EXLOCK	I	Error detection signal input from DIR IC
60	VDDI	I	Power supply pin (+1.9 V)
61	VSS	—	Ground
62, 63	A17, A16	O	Not used (Open)
64 to 66	A15 to A13	O	External memory address signal output for D/A converter IC (SDRAM)
67	GP10	O	Not used (Open)
68	GP9	O	GP9 signal output for SYSTEM CONTROL IC
69	GP8	I	Audio signal input from DIR IC
70	VDDI	I	Power supply pin (+1.9 V)
71	VSS	—	Ground
72 to 75	D15/GP7 to D12/GP4	I/O	External memory data input/output for D/A converter IC (general port)
76	VDDE	I	Power supply pin (+3.4 V)
77 to 80	D11/GP3 to D8/GP0	I/O	External memory data input/output for D/A converter IC (general port)
81	VSS	—	Ground
82	A9	O	External memory address signal output for D/A converter IC (SDRAM)
83 to 85	A12 to A10	O	External memory address signal output for D/A converter IC (SDRAM)
86	TDO	O	Not used (Fixed at H)
87	TMS	I	Not used (Fixed at H)
88	XTRST	I	Not used (Fixed at H)
89	TCK	I	Not used (Fixed at H)
90	TDI	I	Not used (Fixed at H)
91	VSS	—	Ground
92 to 97	A8 to A3	O	External memory address signal output for D/A converter IC (SDRAM)
98, 99	D7, D6	I/O	External memory data input/output for D/A converter IC (SDRAM)
100	VDDI	I	Power supply pin (+1.9 V)
101	VSS	—	Ground
102 to 105	D5 to D2	I/O	External memory data input/output for D/A converter IC (SDRAM)
106	VDDE	I	Power supply pin (+3.4 V)
107, 108	D1, D0	I/O	External memory data input/output for D/A converter IC (SDRAM)
109, 110	A2, A1	O	External memory address signal output for D/A converter IC (SDRAM)
111	VSS	—	Ground
112	A0	O	External memory address signal output for D/A converter IC (SDRAM)
113	PM	I	PLL initialization signal input from SYSTEM CONTROL IC
114, 115	SDI3, SDI4	I	Not used (Open)
116	SYNC	I	Sync/async select signal input (L: sync, H: async) (Fixed at H)
117	TST2	I	Not used (Connect to ground)
118	GP11	I	Not used (Connect to ground)
119	TST3	I	Not used (Connect to ground)
120	VDDI	I	Power supply pin (+1.9 V)

**IC1101 MB90F045PF-G-9033-SPE1 (SYSTEM CONTROL) (DIGITAL BOARD (4/4))**

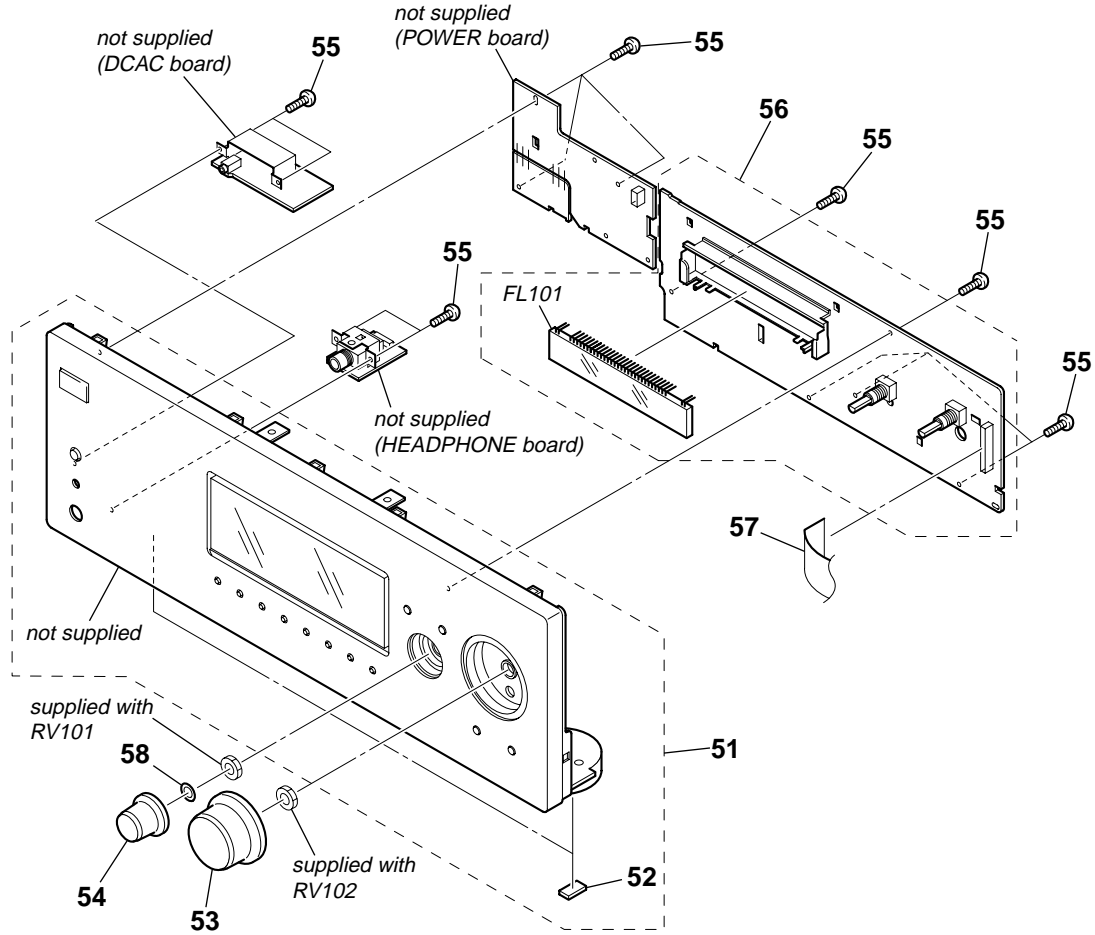
Pin No.	Pin Name	I/O	Pin Description
1	DATAO	I	Serial data line signal input from DIR IC
2	GP9	I	GP9 signal input from DSP IC
3	BST	O	Boot stop control signal output for DSP IC
4	HCS	O	Chip select signal output for DSP IC
5	HACN	I	Acknowledge signal input from DSP IC
6	XRST	O	Reset signal output for DSP IC
7	PM	O	PLL control signal output for DSP IC
8	GP12	O	GP12 signal output for DSP IC
9	FL_LAT	O	Latch signal output for FL driver IC
10	PCM1602/1803_RST	O	Reset signal output for 6CH DAC IC/ADC IC
11	VSS	—	Ground
12	PCM1602_ML	O	Serial latch signal output for 6CH DAC IC
13	PCM1602_MC	O	Serial clock signal output for 6CH DAC IC
14	PCM1602_MDI	O	Serial data output for 6CH DAC IC
15	PCM1602_MDO	I	Serial data input from 6CH DAC IC
16	FL_CLK	O	Clock signal output for FL driver IC
17	FL_DATA	O	Serial data output for FL driver IC
18	HDOUT	I	Serial data input from DSP IC
19	HDIN	O	Serial data output for DSP IC
20	HCLK	O	Serial data clock signal output for DSP IC
21	TUNING_A	I	TUNING +/- encoder (A) signal input (Not used in this set)
22	TUNING_B	I	TUNING +/- encoder (B) signal input (Not used in this set)
23	VCC5	—	Power supply pin (+3.3 V)
24	V_SW1	O	Video SW1 signal output for INPUT SELECT IC
25	V_SW2	O	Video SW2 signal output for INPUT SELECT IC
26	C LINK_DET	I	C Link detect signal input (Not used in this set)
27	FLASH2/ C LINK_RX(MICLO)	O	Flash programming signal output 2
28	FLASH1/ C LINK_TX(MOCLI)	O	Flash programming signal output 1
29	SDA	I/O	Serial data input/output for EEPROM IC
30	SCL	O	Clock signal output for EEPROM IC
31	ENC_A	I	INPUT SELECTOR encoder (A) signal input
32	ENC_B	I	INPUT SELECTOR encoder (B) signal input
33, 34	NC	O	Not used (Open)
35	AVCC	—	Power supply pin (+3.3 V)
36	AVRH	—	Power supply pin (+3.3 V)
37	AVSS	—	Ground
38	ADCC	I	AUTO CAL MIC analog signal input
39, 40	A/D1, A/D2	I	Key signal input (A/D port)
41	VERSION	I	Destination detection signal input (L: Except AEP, UK model, H: AEP, UK model)
42	VSS	—	Ground
43	RDS_SIG	I	RDS signal level input (AEP, UK model)
44	MODEL	I	Model detection signal input
45	VACS CTRL	I	VACS control signal input (Not used in this set)
46	TUNER_CLK	O	Serial clock signal output for tuner pack
47	TUNER_DATA	O	Serial data output for tuner pack
48	STOP	I	AC off detection signal input
49	MOD0	—	Selection of micon operation mode
50	MOD1	—	Not used (Connect to AVCC)
51	MOD2	—	Selection of micon operation mode
52	RDS_CLK	I	RDS data clock signal input (AEP, UK model)

Pin No.	Pin Name	I/O	Pin Description
53	RDS_DATA	I	RDS data input (AEP, UK model)
54	SIRCS	I	SIRCS signal input
55	HP_DETECT	I	Headphones detection signal input
56	POWER_KEY	I	Power key detection signal input
57	ADCC_INT	I	ADCC data input from DSP IC
58	POWER_RY	O	Power relay driver control signal output
59	VOL_IC_CL	O	Clock signal output for DIR IC
60	VOL_IC_DA	O	Serial data and latch output for DIR IC
61	PROTECTOR	I	Protector detection signal input
62	HP_RY	O	Headphone relay driver control signal output
63	FUSE_DETECT	I	Fuse open detection signal input
64	VOL_ENCODER(B)	I	MASTER VOLUME encoder (B) signal input
65	VOL_ENCODER(A)	I	MASTER VOLUME encoder (A) signal input
66	FRONT_B_RY	O	Front B speaker relay driver control signal output
67	FRONT_A_RY	O	Front A speaker relay driver control signal output
68	DC-CONTROL	O	DCAC DC-BIAS switch control signal output (Not used in this set)
69	C/REAR/SB_RY	O	Center/surround speaker relay driver control signal output
70	SW_RY	O	Sub woofer relay driver control signal output
71	NC	O	Not used (Open)
72	BRIDGEABLE_RY	O	Bridgeable relay driver control signal output (Not used in this set)
73	DO/SD/ST	I	Tuner serial data input
74	SLATCH	O	Tuner latch signal output
75	V_SW3	O	Video SW3 signal output for INPUT SELECT IC (Not used in this set)
76	V_SW4	O	Video SW4 signal output for INPUT SELECT IC (Not used in this set)
77	RSTX	I	Reset signal input
78	COMP MUTE	O	COMPONENT VIDEO mute signal output
79	X1A	—	Not used (Open)
80	X0A	—	Not used (Connect to VSS)
81	VSS	—	Ground
82	X0	—	Clock signal input (24 MHz)
83	X1	—	Clock signal output (24 MHz)
84	VCC3	—	Power supply pin (+3.3 V)
85	HDMI_S2	O	HDMI S2 signal output (Not used in this set)
86	HDMI_S1	O	HDMI S1 signal output
87	HDMI_OEB	O	HDMI OEB signal output
88	HDMI_PRE	O	HDMI PRE signal output
89	HDMI_CTRL	O	HDMI control signal output
90	COMP_S2	O	COMPONENT VIDEO assign SW2 signal output
91	COMP_S1	O	COMPONENT VIDEO assign SW1 signal output
92	BST_SEL	O	96/24 signal output for DSP IC
93	XMODE	O	Xmode signal output for DIR IC
94	CKSEL1	O	Clock select signal output for DIR IC
95	CLK	O	Data clock signal output for DIR IC
96	CE	O	Latch signal output for DIR IC
97	DI	O	Data output for DIR IC
98	DO	I	Data input from DIR IC
99	ERROR	I	Error detection signal input from DIR IC
100	XSTATE	I	Xstate signal input from DIR IC



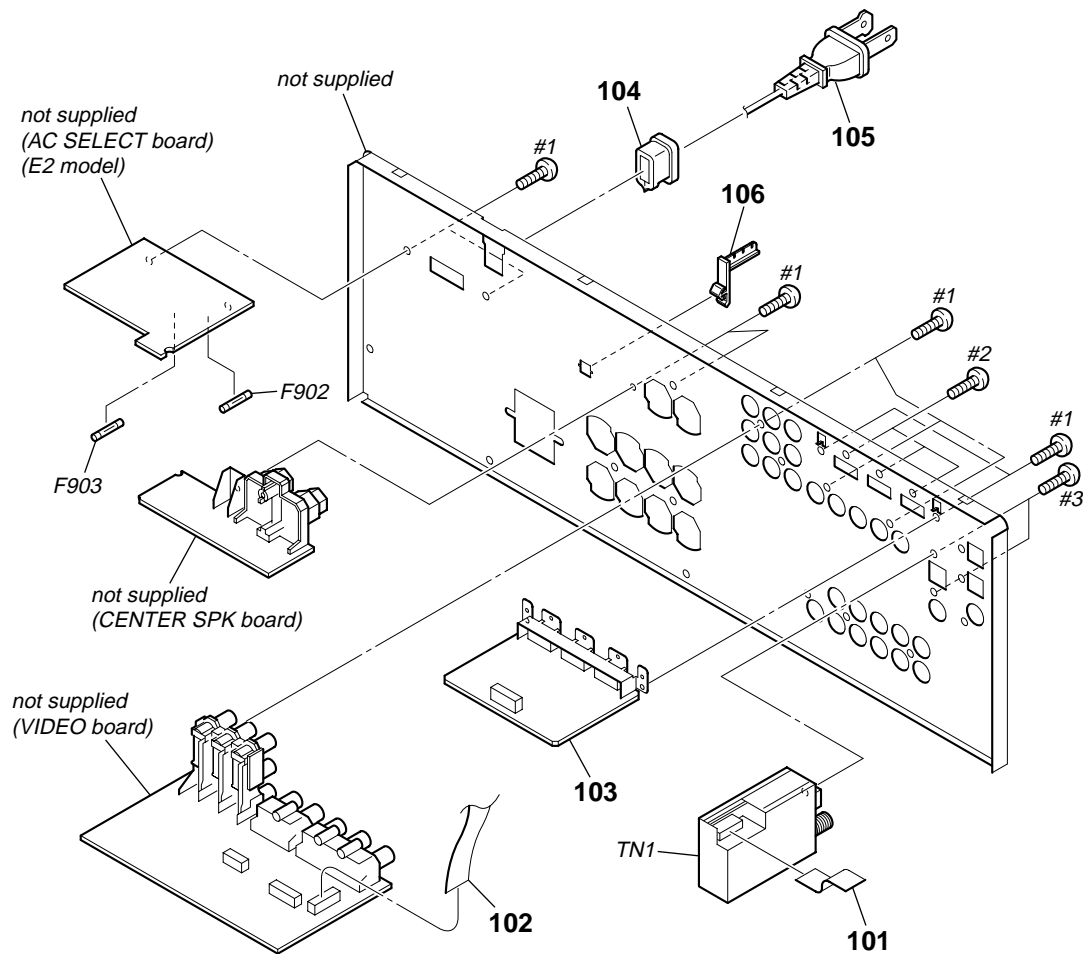


**6-2. FRONT PANEL SECTION**



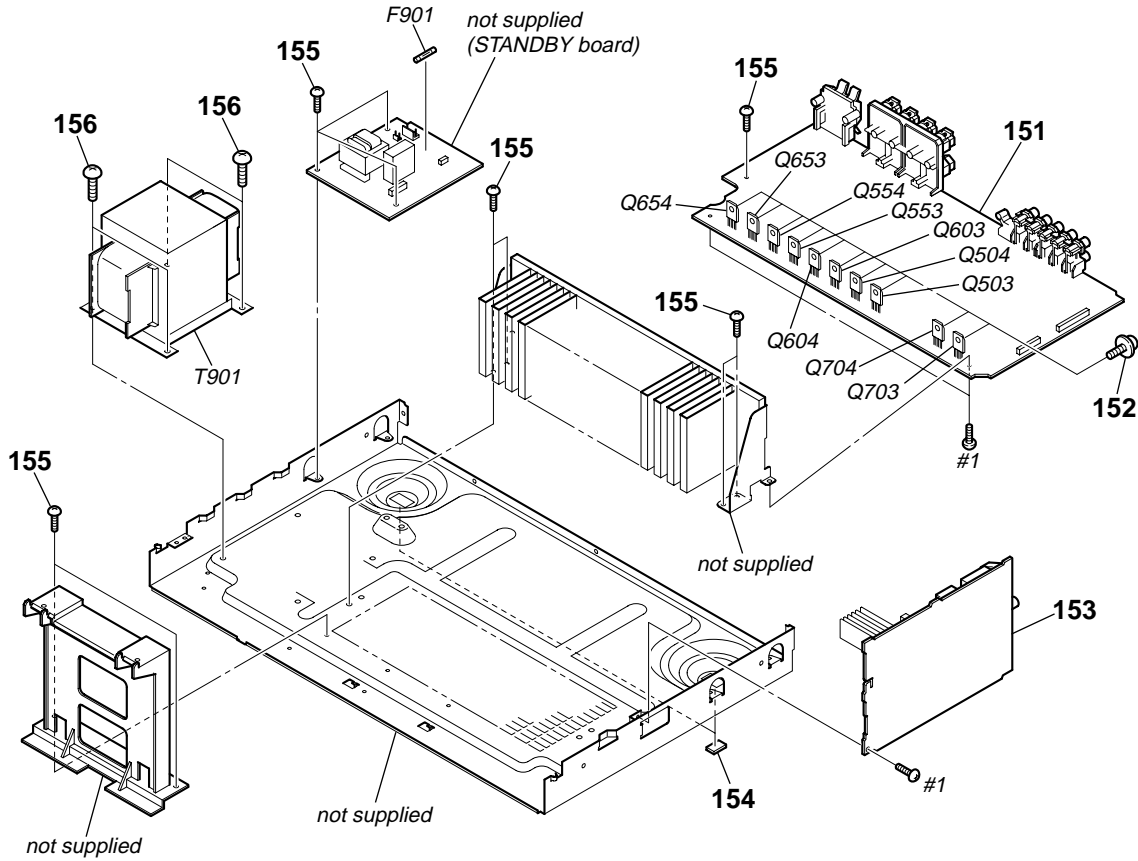
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-2159-962-A	FRONT PANEL ASSY (BLACK)...(BLACK) (US)		54	2-661-141-11	KNOB (MENU) (SILVER)...(SILVER)	
51	X-2159-963-1	FRONT PANEL ASSY (BLACK)...(BLACK) (CND)		55	3-087-053-01	+BVTP 2.6 (3CR)	
51	X-2159-964-1	FRONT PANEL ASSY (BLACK)...(BLACK)	(AEP,UK)	56	A-1221-600-A	DISPLAY BOARD, COMPLETE (US,CND)	
51	X-2176-137-1	FRONT PANEL ASSY (SILVER)...(SILVER)	(AEP,UK)	56	A-1221-612-A	DISPLAY BOARD, COMPLETE (AEP,UK,AUS,KR)	
51	X-2176-971-1	FRONT PANEL ASSY (SILVER)...(SILVER)	(E2,AUS,KR,MY,SP,TH,TW)	56	A-1243-255-A	DISPLAY BOARD, COMPLETE (MY,SP,TH)	
52	4-977-358-01	CUSHION		56	A-1243-256-A	DISPLAY BOARD, COMPLETE (TW)	
53	2-661-142-01	KNOB (VOLUME) (BLACK)...(BLACK)		56	A-1243-257-A	DISPLAY BOARD, COMPLETE (E2)	
53	2-661-142-11	KNOB (VOLUME) (SILVER)...(SILVER)		57	1-828-994-11	WIRE (FLAT TYPE) (17 CORE)	
54	2-661-141-01	KNOB (MENU) (BLACK)...(BLACK)		58	3-354-981-11	SPRING (SUS), RING	
				FL101	1-519-927-11	VACUUM FLUORESCENT DISPLAY	

6-3. BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	1-828-953-11	WIRE (FLAT TYPE) (9 CORE) (EXCEPT AEP,UK)		106	4-956-370-12	BAND, PLUG FIXED (UK)	
101	1-828-963-11	WIRE (FLAT TYPE) (11 CORE) (AEP,UK)		△ F902	1-532-464-33	FUSE (T2.5AL/250V) (E2)	
102	1-828-971-11	WIRE (FLAT TYPE) (13 CORE)		△ F903	1-532-464-33	FUSE (T2.5AL/250V) (E2)	
103	A-1158-394-A	HDMI SW BOARD, COMPLETE		TN1	1-693-728-11	TUNER (FM/AM) (ANTENNA) (US,CND,E2)	
104	3-703-244-21	BUSHING (2104), CORD		TN1	1-693-735-11	TUNER (FM/AM) (ANTENNA)	(AUS,KR,MY,SP,TH,TW)
△ 105	1-696-848-81	CORD, POWER (AUS)		TN1	1-693-737-11	TUNER (FM/AM) (ANTENNA) (AEP,UK)	
△ 105	1-769-079-23	CORD, POWER (KR)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
△ 105	1-777-071-23	CORD, POWER (E2)		#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
△ 105	1-777-071-83	CORD, POWER (AEP,UK,MY,SP,TH)		#3	7-685-862-09	SCREW +BVTT 2.6X6 (S)	
△ 105	1-783-820-11	CORD, POWER (US,CND)					
△ 105	1-827-597-41	CORD, POWER (TW)					

**6-4. CHASSIS SECTION**



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	A-1221-595-A	MAIN BOARD, COMPLETE (US,CND)		Q503	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
151	A-1221-608-A	MAIN BOARD, COMPLETE (AEP,UK,AUS,KR)		Q504	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
151	A-1243-246-A	MAIN BOARD, COMPLETE (MY,SP,TH)		Q553	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
151	A-1243-247-A	MAIN BOARD, COMPLETE (TW)		Q554	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
151	A-1243-248-A	MAIN BOARD, COMPLETE (E2)		Q603	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
152	3-905-609-01	SCREW (TRANSISTOR)		Q604	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
153	A-1221-603-A	DIGITAL BOARD, COMPLETE (US,CND)		Q653	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
153	A-1221-613-A	DIGITAL BOARD, COMPLETE (AEP,UK)		Q654	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
153	A-1243-258-A	DIGITAL BOARD, COMPLETE (AUS,KR,MY,SP,TH,TW)		Q703	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
153	A-1243-259-A	DIGITAL BOARD, COMPLETE (E2)		Q704	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
153	4-249-675-01	+BV SUMITITE S 4X6 ROUND		△ T901	1-439-550-21	TRANSFORMER, POWER (MAIN) (AEP,UK,AUS,KR)	
154	4-977-358-01	CUSHION		△ T901	1-439-552-21	TRANSFORMER, POWER (MAIN) (TW)	
155	3-077-331-21	+BV 3 (3-CR)		△ T901	1-439-553-31	TRANSFORMER, POWER (MAIN) (E2)	
△ F901	1-532-464-33	FUSE (T2.5AL/250V) (AEP,UK,AUS,KR,MY,SP,TH)		△ T901	1-439-583-11	TRANSFORMER, POWER (MAIN) (US,CND)	
△ F901	1-532-505-33	FUSE (T5AL/250V) (E2,TW)		△ T901	1-445-019-11	TRANSFORMER, POWER (MAIN) (MY,SP,TH)	
△ F901	1-533-454-12	FUSE, GLASS TUBE (DIA. 5) (6.3A/125V) (US,CND)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

# SECTION 7 ELECTRICAL PARTS LIST

AC SELECT

CENTER SPK

DCAC

DIGITAL

**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.
- RESISTORS  
All resistors are in ohms.  
METAL: Metal-film resistor.  
METAL OXIDE: Metal oxide-film resistor.  
F: nonflammable
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- SEMICONDUCTORS  
In each case, u :  $\mu$ , for example:  
uA.. :  $\mu$ A.. uPA.. :  $\mu$ PA..  
uPB.. :  $\mu$ PB.. uPC.. :  $\mu$ PC.. uPD.. :  $\mu$ PD..
- CAPACITORS  
uF :  $\mu$ F
- COILS  
uH :  $\mu$ H
- Abbreviation  
CND : Canadian model  
AUS : Australian model  
E2 : 120 V AC area in E model  
KR : Korea model  
MY : Malaysia model  
SP : Singapore model  
TH : Thai model  
TW : Taiwan model

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

Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		AC SELECT BOARD (E2) *****				< DIODE >	
	1-533-217-41	HOLDER, FUSE		D2013	8-719-991-33	DIODE 1SS133T-77	
		< CONNECTOR >		D2014	8-719-991-33	DIODE 1SS133T-77	
CN905	1-568-106-11	PIN, CONNECTOR (3.96mm PITCH) 4P				< IC >	
* CNP910	1-564-687-11	PIN, CONNECTOR (3.96mm PITCH) 3P		IC2000	8-759-167-88	IC NJM4565D	
		< SWITCH >				< JACK >	
$\Delta$ S901	1-571-437-21	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)		J2000	1-820-056-11	JACK (SMALL TYPE) (AUTO CAL MIC)	
		*****				< RESISTOR >	
		CENTER SPK BOARD *****		R2000	1-247-831-11	CARBON 1K 5% 1/4W	
		< CONNECTOR >		R2001	1-249-429-11	CARBON 10K 5% 1/4W	
CNP721	1-564-320-00	PIN, CONNECTOR (3.96mm PITCH) 2P		R2003	1-249-429-11	CARBON 10K 5% 1/4W	
		< TERMINAL BOARD >		R2005	1-247-903-00	CARBON 1M 5% 1/4W	
TM607	1-780-450-11	BANANA-PUSH TERMINAL BOARD (2P) (SPEAKERS CENTER) (EXCEPT US,CND)		R2006	1-247-831-11	CARBON 1K 5% 1/4W	
TM607	1-780-500-11	BANANA-PUSH TERMINAL BOARD (2P) (SPEAKERS CENTER) (US,CND)		R2007	1-249-429-11	CARBON 10K 5% 1/4W	
		*****		R2008	1-247-897-11	CARBON 560K 5% 1/4W	
		DCAC BOARD *****		R2010	1-249-429-11	CARBON 10K 5% 1/4W	
		< CAPACITOR >		R2015	1-249-435-11	CARBON 33K 5% 1/4W	
C2001	1-162-282-31	CERAMIC 100PF 10% 50V		R2016	1-249-431-11	CARBON 15K 5% 1/4W	
C2002	1-126-160-11	ELECT 1uF 20% 50V		R2017	1-249-421-11	CARBON 2.2K 5% 1/4W	
C2003	1-127-882-31	CERAMIC 0.033uF 10% 50V		R2018	1-249-418-11	CARBON 1.2K 5% 1/4W	
C2005	1-128-803-11	CERAMIC 33PF 5% 50V		R2019	1-249-421-11	CARBON 2.2K 5% 1/4W	
C2006	1-126-160-11	ELECT 1uF 20% 50V				*****	
C2008	1-128-806-11	CERAMIC 56PF 5% 50V		A-1221-603-A		DIGITAL BOARD, COMPLETE (US,CND)	
C2010	1-127-882-31	CERAMIC 0.033uF 10% 50V		A-1221-613-A		DIGITAL BOARD, COMPLETE (AEP,UK)	
C2011	1-127-880-11	CERAMIC 0.022uF 10% 50V		A-1243-258-A		DIGITAL BOARD, COMPLETE (AUS,KR,MY,SP,TH,TW)	
C2012	1-127-880-11	CERAMIC 0.022uF 10% 50V		A-1243-259-A		DIGITAL BOARD, COMPLETE (E2) *****	
C2013	1-126-160-11	ELECT 1uF 20% 50V		7-685-646-79		SCREW +BVTP 3X8 TYPE2 IT-3	
C2014	1-124-465-00	ELECT 0.47uF 20% 50V				< CAPACITOR >	
C2018	1-127-888-11	CERAMIC 0.1uF 10% 50V		C1001	1-126-925-11	ELECT 470uF 20% 10V	
				C1002	1-125-891-11	CERAMIC CHIP 0.47uF 10% 10V	
				C1004	1-100-566-11	CERAMIC CHIP 0.1uF 10% 25V	
				C1005	1-100-566-11	CERAMIC CHIP 0.1uF 10% 25V	
				C1019	1-100-566-11	CERAMIC CHIP 0.1uF 10% 25V	
				C1021	1-137-980-11	CERAMIC CHIP 0.47uF 10% 50V	
				C1022	1-135-372-31	ELECT 470uF 20% 10V	
				C1031	1-137-980-11	CERAMIC CHIP 0.47uF 10% 50V	
				C1032	1-135-372-31	ELECT 470uF 20% 10V	
				C1067	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	

# STR-DG510

Ver. 1.1

DIGITAL

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark		
C1068	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C1409	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1100	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1411	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1102	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1413	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1103	1-126-947-11	ELECT	47uF	20%	35V	C1414	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1107	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1415	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1108	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1418	1-126-964-11	ELECT	10uF	20%	50V
C1118	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1422	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1119	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1423	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1120	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1428	1-126-964-11	ELECT	10uF	20%	50V
C1121	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1432	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1122	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1433	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1123	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1438	1-126-964-11	ELECT	10uF	20%	50V
C1124	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1441	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1129	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1442	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1131	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1448	1-126-964-11	ELECT	10uF	20%	50V
C1132	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1450	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1137	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C1451	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1138	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1453	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1139	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1454	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1140	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1455	1-126-964-11	ELECT	10uF	20%	50V
C1142	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1457	1-126-964-11	ELECT	10uF	20%	50V
C1144	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1458	1-126-964-11	ELECT	10uF	20%	50V
C1145	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1462	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1149	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C1463	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1171	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1468	1-126-964-11	ELECT	10uF	20%	50V
C1172	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1473	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1253	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C1474	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1254	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C1481	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1255	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C1483	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1299	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1487	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1301	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1491	1-126-964-11	ELECT	10uF	20%	50V
C1302	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1494	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1303	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1495	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1304	1-107-726-11	CERAMIC CHIP	0.01uF	10%	16V	C1501	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1305	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1502	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1306	1-126-947-11	ELECT	47uF	20%	35V	C1503	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1308	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1504	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1309	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	C1505	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1310	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	C1506	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1312	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1507	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1313	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C1508	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1314	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1509	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1315	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1510	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1351	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1511	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1354	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1513	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1355	1-104-662-11	ELECT	22uF	20%	25V	C1514	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1358	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1515	1-126-925-11	ELECT	470uF	20%	10V
C1359	1-126-916-11	ELECT	1000uF	20%	6.3V	C1516	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1361	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1517	1-126-925-11	ELECT	470uF	20%	10V
C1362	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1518	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1401	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1519	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1402	1-126-947-11	ELECT	47uF	20%	35V	C1520	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1403	1-126-964-11	ELECT	10uF	20%	50V	C1521	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C1404	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1522	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C1405	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1525	1-126-925-11	ELECT	470uF	20%	10V
C1406	1-126-964-11	ELECT	10uF	20%	50V	C1547	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1407	1-126-964-11	ELECT	10uF	20%	50V	C1566	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1408	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1567	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C1568	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	IC1301	8-759-825-15	IC LC89056W-E	
C1569	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	IC1303	8-759-096-87	IC TC7WU04FU(TE12R)	
C1604	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V	IC1351	6-600-466-01	IC TORX147L(SONY) (DIGITAL	
C1605	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V			VIDEO 2/BD IN (OPTICAL))	
C1620	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V	IC1354	6-600-466-01	IC TORX147L(SONY) (DIGITAL	
						SAT IN (OPTICAL))	
C1905	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V	IC1401	6-707-608-01	IC PCM1803DBR	
C1906	1-126-925-11	ELECT	470uF 20% 10V	IC1403	8-759-710-97	IC NJM4565M-D	
C1908	1-126-925-11	ELECT	470uF 20% 10V	IC1404	8-759-710-97	IC NJM4565M-D	
C1913	1-137-980-11	CERAMIC CHIP	0.47uF 10% 50V	IC1405	8-759-710-97	IC NJM4565M-D	
C1914	1-126-947-11	ELECT	47uF 20% 35V	IC1452	6-708-784-01	IC PCM1602APT	
		< CONNECTOR >		IC1502	6-709-278-01	IC IS61WV6416BLL-12TLI	
CNP503	1-691-770-11	PLUG (MICRO CONNECTOR) 8P		IC1503	8-759-546-74	IC TC7WH157FU(TE12R)	
* CNP505	1-564-510-11	PLUG, CONNECTOR 7P		IC1901	6-707-168-01	IC SI-3008KWFE	
CNS501	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P		IC1902	8-759-231-56	IC TA7809S	
CNS502	1-573-825-11	CONNECTOR, BOARD TO BOARD 11P		IC1904	6-705-468-01	IC BA33BC0FP-E2	
CNS504	1-784-731-11	CONNECTOR, FFC 9P		IC1905	6-707-754-01	IC CXD9862R	
CNS507	1-568-828-11	CONNECTOR, FFC 9P (EXCEPT AEP,UK)				< JACK >	
CNS508	1-568-830-11	CONNECTOR, FFC 11P (AEP,UK)		J1301	1-793-446-21	JACK, PIN 1P (DIGITAL DVD IN (COAXIAL))	
CNS509	1-784-774-11	CONNECTOR, FFC 13P				< JUMPER RESISTOR >	
CNS513	1-784-778-11	CONNECTOR, FFC 17P		JR1002	1-211-950-11	SHORT CHIP 0	
		< DIODE >		JR1005	1-216-864-11	SHORT CHIP 0	
D1001	8-719-053-18	DIODE 1SR154-400TE-25		JR1008	1-216-864-11	SHORT CHIP 0	
D1003	8-719-049-09	DIODE 1SS367-T3SONY		JR1020	1-216-864-11	SHORT CHIP 0	
D1004	8-719-049-09	DIODE 1SS367-T3SONY		JR1511	1-400-862-11	BEAD, FERRITE	
D1107	8-719-404-50	DIODE MA111-TX				< RESISTOR >	
D1108	8-719-404-50	DIODE MA111-TX		R1010	1-216-809-11	METAL CHIP 100 5% 1/10W	
D1109	8-719-404-50	DIODE MA111-TX		R1011	1-216-809-11	METAL CHIP 100 5% 1/10W	
D1110	8-719-404-50	DIODE MA111-TX		R1012	1-216-809-11	METAL CHIP 100 5% 1/10W	
D1111	8-719-404-50	DIODE MA111-TX		R1013	1-216-809-11	METAL CHIP 100 5% 1/10W	
D1301	8-719-404-50	DIODE MA111-TX		R1014	1-216-809-11	METAL CHIP 100 5% 1/10W	
D1302	8-719-404-50	DIODE MA111-TX		R1015	1-216-809-11	METAL CHIP 100 5% 1/10W	
D1501	8-719-049-09	DIODE 1SS367-T3SONY		R1035	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
D1502	8-719-049-09	DIODE 1SS367-T3SONY		R1039	1-216-833-11	METAL CHIP 10K 5% 1/10W	
D1503	8-719-049-09	DIODE 1SS367-T3SONY		R1041	1-216-809-11	METAL CHIP 100 5% 1/10W	
		< FERRITE BEAD >		R1042	1-216-809-11	METAL CHIP 100 5% 1/10W	
FB1101	1-400-862-11	BEAD, FERRITE		R1049	1-216-833-11	METAL CHIP 10K 5% 1/10W	
FB1302	1-400-862-11	BEAD, FERRITE		R1058	1-216-813-11	METAL CHIP 220 5% 1/10W	
FB1305	1-400-862-11	BEAD, FERRITE				(AEP,UK)	
FB1308	1-400-862-11	BEAD, FERRITE		R1059	1-216-813-11	METAL CHIP 220 5% 1/10W	
FB1310	1-400-862-11	BEAD, FERRITE				(AEP,UK)	
FB1350	1-400-862-11	BEAD, FERRITE		R1061	1-216-809-11	METAL CHIP 100 5% 1/10W	
FB1403	1-400-862-11	BEAD, FERRITE		R1062	1-216-809-11	METAL CHIP 100 5% 1/10W	
FB1405	1-400-862-11	BEAD, FERRITE		R1065	1-216-809-11	METAL CHIP 100 5% 1/10W	
FB1452	1-400-862-11	BEAD, FERRITE		R1066	1-216-809-11	METAL CHIP 100 5% 1/10W	
FB1453	1-400-862-11	BEAD, FERRITE		R1067	1-216-809-11	METAL CHIP 100 5% 1/10W	
FB1501	1-400-862-11	BEAD, FERRITE		R1068	1-216-809-11	METAL CHIP 100 5% 1/10W	
FB1502	1-400-862-11	BEAD, FERRITE		R1072	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
FB1503	1-400-862-11	BEAD, FERRITE		R1073	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
		< IC >		R1076	1-216-809-11	METAL CHIP 100 5% 1/10W	
IC1001	8-759-231-53	IC TA7805S		R1077	1-216-809-11	METAL CHIP 100 5% 1/10W	
IC1031	6-705-469-01	IC BA50BC0FP-E2		R1078	1-216-809-11	METAL CHIP 100 5% 1/10W	
IC1101	6-807-154-01	IC MB90F045PF-G-9033-SPE1		R1083	1-216-833-11	METAL CHIP 10K 5% 1/10W	
IC1111	6-702-913-01	IC S-80929CNMC-G8ZT2G		R1088	1-216-833-11	METAL CHIP 10K 5% 1/10W	
IC1131	6-705-866-01	IC BR24L16FJ-WE2		R1094	1-216-833-11	METAL CHIP 10K 5% 1/10W	
						(EXCEPT AEP,UK)	

# STR-DG510

Ver. 1.2

**DIGITAL**

Ref. No.	Part No.	Description	Quantity	Unit	Remark
R1095	1-216-833-11	METAL CHIP	10K	5%	1/10W (EXCEPT AEP,UK)
R1096	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1106	1-216-809-11	METAL CHIP	100	5%	1/10W
R1107	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1108	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1110	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1111	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1112	1-216-809-11	METAL CHIP	100	5%	1/10W
R1114	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1117	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1118	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1120	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1121	1-216-809-11	METAL CHIP	100	5%	1/10W
R1122	1-216-809-11	METAL CHIP	100	5%	1/10W
R1123	1-216-809-11	METAL CHIP	100	5%	1/10W
R1124	1-216-809-11	METAL CHIP	100	5%	1/10W
R1125	1-216-809-11	METAL CHIP	100	5%	1/10W
R1126	1-216-809-11	METAL CHIP	100	5%	1/10W
R1127	1-216-809-11	METAL CHIP	100	5%	1/10W
R1128	1-216-809-11	METAL CHIP	100	5%	1/10W
R1129	1-216-809-11	METAL CHIP	100	5%	1/10W
R1134	1-216-809-11	METAL CHIP	100	5%	1/10W
R1135	1-216-809-11	METAL CHIP	100	5%	1/10W
R1140	1-216-809-11	METAL CHIP	100	5%	1/10W
R1143	1-216-809-11	METAL CHIP	100	5%	1/10W
R1144	1-216-809-11	METAL CHIP	100	5%	1/10W
R1150	1-216-809-11	METAL CHIP	100	5%	1/10W
R1151	1-216-809-11	METAL CHIP	100	5%	1/10W
R1152	1-216-809-11	METAL CHIP	100	5%	1/10W
R1153	1-216-809-11	METAL CHIP	100	5%	1/10W
R1154	1-216-809-11	METAL CHIP	100	5%	1/10W
R1156	1-216-864-11	SHORT CHIP	0		
R1157	1-216-864-11	SHORT CHIP	0		
R1159	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1160	1-216-809-11	METAL CHIP	100	5%	1/10W
R1161	1-216-809-11	METAL CHIP	100	5%	1/10W
R1163	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1164	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1175	1-216-809-11	METAL CHIP	100	5%	1/10W
R1179	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1180	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1181	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1182	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1183	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1184	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1185	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1186	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1187	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1188	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1189	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1190	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1191	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1192	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1193	1-216-841-11	METAL CHIP	47K	5%	1/10W (EXCEPT US,CND)

Ref. No.	Part No.	Description	Quantity	Unit	Remark
R1194	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (AEP,UK)
R1194	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (AUS,KR,MY,SP,TH,TW)
R1194	1-216-833-11	METAL CHIP	10K	5%	1/10W (E2)
R1194	1-216-864-11	SHORT CHIP	0		(US,CND)
R1201	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1253	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1260	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1261	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1301	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1303	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1304	1-216-809-11	METAL CHIP	100	5%	1/10W
R1305	1-216-819-11	METAL CHIP	680	5%	1/10W
R1306	1-216-801-11	METAL CHIP	22	5%	1/10W
R1307	1-216-809-11	METAL CHIP	100	5%	1/10W
R1308	1-216-809-11	METAL CHIP	100	5%	1/10W
R1309	1-216-809-11	METAL CHIP	100	5%	1/10W
R1310	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1311	1-216-809-11	METAL CHIP	100	5%	1/10W
R1312	1-216-809-11	METAL CHIP	100	5%	1/10W
R1313	1-216-809-11	METAL CHIP	100	5%	1/10W
R1314	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1318	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1319	1-216-864-11	SHORT CHIP	0		
R1321	1-216-864-11	SHORT CHIP	0		
R1323	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1325	1-216-864-11	SHORT CHIP	0		
R1351	1-216-809-11	METAL CHIP	100	5%	1/10W
R1354	1-216-809-11	METAL CHIP	100	5%	1/10W
R1355	1-218-285-11	METAL CHIP	75	5%	1/10W
R1356	1-216-817-11	METAL CHIP	470	5%	1/10W
R1357	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1359	1-216-809-11	METAL CHIP	100	5%	1/10W
R1360	1-216-809-11	METAL CHIP	100	5%	1/10W
R1401	1-216-809-11	METAL CHIP	100	5%	1/10W
R1407	1-216-809-11	METAL CHIP	100	5%	1/10W
R1409	1-216-864-11	SHORT CHIP	0		
R1410	1-216-817-11	METAL CHIP	470	5%	1/10W
R1411	1-216-817-11	METAL CHIP	470	5%	1/10W
R1414	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1420	1-216-864-11	SHORT CHIP	0		
R1421	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1424	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1425	1-216-864-11	SHORT CHIP	0		
R1426	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1434	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1435	1-216-864-11	SHORT CHIP	0		
R1436	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1444	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1445	1-216-864-11	SHORT CHIP	0		
R1446	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1454	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1455	1-216-864-11	SHORT CHIP	0		
R1460	1-216-864-11	SHORT CHIP	0		
R1461	1-216-864-11	SHORT CHIP	0		



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R1463	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	RB1508	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)	
R1464	1-216-864-11	SHORT CHIP	0			< VIBRATOR >	
R1466	1-216-821-11	METAL CHIP	1K 5% 1/10W	X1101	1-813-448-21	PIEZOELECTRIC OSCILLATOR (24MHz)	
R1469	1-216-809-11	METAL CHIP	100 5% 1/10W	X1301	1-795-126-21	VIBRATOR, CRYSTAL (12.288MHz)	
R1470	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	X1502	1-813-276-21	QUARTZ, CRYSTAL (13.9MHz)	
R1471	1-216-864-11	SHORT CHIP	0	*****			
R1472	1-216-864-11	SHORT CHIP	0	A-1221-600-A	DISPLAY BOARD, COMPLETE (US,CND)		
R1473	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	A-1221-612-A	DISPLAY BOARD, COMPLETE (AEP,UK,AUS,KR)		
R1474	1-216-833-11	METAL CHIP	10K 5% 1/10W	A-1243-255-A	DISPLAY BOARD, COMPLETE (MY,SP,TH)		
R1475	1-216-864-11	SHORT CHIP	0	A-1243-256-A	DISPLAY BOARD, COMPLETE (TW)		
R1476	1-216-821-11	METAL CHIP	1K 5% 1/10W	A-1243-257-A	DISPLAY BOARD, COMPLETE (E2)		
R1483	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	*****			
R1484	1-216-864-11	SHORT CHIP	0	< CAPACITOR >			
R1486	1-216-821-11	METAL CHIP	1K 5% 1/10W	C100	1-127-888-11	CERAMIC 0.1uF 10% 50V	
R1490	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	C101	1-127-888-11	CERAMIC 0.1uF 10% 50V	
R1491	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	C106	1-127-868-11	CERAMIC 0.0022uF 10% 50V	
R1492	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	C107	1-127-868-11	CERAMIC 0.0022uF 10% 50V	
R1493	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	C110	1-162-286-31	CERAMIC 220PF 10% 50V	
R1494	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	C111	1-162-286-31	CERAMIC 220PF 10% 50V	
R1495	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	C112	1-162-286-31	CERAMIC 220PF 10% 50V	
R1501	1-216-809-11	METAL CHIP	100 5% 1/10W	C144	1-127-888-11	CERAMIC 0.1uF 10% 50V	
R1502	1-216-809-11	METAL CHIP	100 5% 1/10W	C145	1-127-888-11	CERAMIC 0.1uF 10% 50V	
R1503	1-216-813-11	METAL CHIP	220 5% 1/10W	C146	1-126-964-11	ELECT 10uF 20% 50V	
R1504	1-216-809-11	METAL CHIP	100 5% 1/10W	C147	1-162-286-31	CERAMIC 220PF 10% 50V	
R1505	1-216-809-11	METAL CHIP	100 5% 1/10W	C148	1-162-286-31	CERAMIC 220PF 10% 50V	
R1506	1-216-809-11	METAL CHIP	100 5% 1/10W	C149	1-162-286-31	CERAMIC 220PF 10% 50V	
R1508	1-216-809-11	METAL CHIP	100 5% 1/10W	C150	1-127-888-11	CERAMIC 0.1uF 10% 50V	
R1509	1-216-809-11	METAL CHIP	100 5% 1/10W	C151	1-127-888-11	CERAMIC 0.1uF 10% 50V	
R1510	1-216-809-11	METAL CHIP	100 5% 1/10W	C161	1-126-964-11	ELECT 10uF 20% 50V	
R1511	1-216-809-11	METAL CHIP	100 5% 1/10W	< CONNECTOR >			
R1512	1-216-833-11	METAL CHIP	10K 5% 1/10W	CNS102	1-784-778-11	CONNECTOR, FFC 17P	
R1513	1-216-833-11	METAL CHIP	10K 5% 1/10W	< VACUUM FLUORESCENT DISPLAY >			
R1514	1-216-833-11	METAL CHIP	10K 5% 1/10W	FL101	1-519-927-11	VACUUM FLUORESCENT DISPLAY	
R1515	1-216-857-11	METAL CHIP	1M 5% 1/10W	< IC >			
R1515	1-216-813-11	METAL CHIP	220 5% 1/10W	IC100	8-759-643-83	IC uPD16315GB-3BS	
R1523	1-216-813-11	METAL CHIP	220 5% 1/10W	IC101	8-759-243-51	IC TC74ACT08P	
R1524	1-216-864-11	SHORT CHIP	0	IC102	6-600-174-01	IC RPM7240-H4 (IR)	
R1530	1-216-845-11	METAL CHIP	100K 5% 1/10W	< RESISTOR >			
R1541	1-216-813-11	METAL CHIP	220 5% 1/10W	R101	1-249-409-11	CARBON 220 5% 1/4W	
R1555	1-216-813-11	METAL CHIP	220 5% 1/10W	R102	1-249-411-11	CARBON 330 5% 1/4W	
R1556	1-216-809-11	METAL CHIP	100 5% 1/10W	R103	1-249-413-11	CARBON 470 5% 1/4W	
R1557	1-216-813-11	METAL CHIP	220 5% 1/10W	R104	1-249-415-11	CARBON 680 5% 1/4W	
R1570	1-216-833-11	METAL CHIP	10K 5% 1/10W	R105	1-247-831-11	CARBON 1K 5% 1/4W	
R1571	1-216-833-11	METAL CHIP	10K 5% 1/10W	R106	1-249-419-11	CARBON 1.5K 5% 1/4W	
R1572	1-216-833-11	METAL CHIP	10K 5% 1/10W	R107	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1573	1-216-833-11	METAL CHIP	10K 5% 1/10W	R108	1-249-409-11	CARBON 220 5% 1/4W	
R1574	1-216-833-11	METAL CHIP	10K 5% 1/10W	R109	1-249-411-11	CARBON 330 5% 1/4W	
R1635	1-216-833-11	METAL CHIP	10K 5% 1/10W	R110	1-249-413-11	CARBON 470 5% 1/4W	
R1636	1-216-833-11	METAL CHIP	10K 5% 1/10W	R115	1-247-807-31	CARBON 100 5% 1/4W	
R1943	1-216-841-11	METAL CHIP	47K 5% 1/10W	R116	1-247-807-31	CARBON 100 5% 1/4W	
< NETWORK RESISTOR >				R117	1-247-807-31	CARBON 100 5% 1/4W	
RB1500	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)		R118	1-249-440-11	CARBON 82K 5% 1/4W	
RB1501	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)					
RB1502	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)					
RB1503	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)					
RB1504	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)					
RB1506	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)					
RB1507	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)					

# STR-DG510

Ver. 1.1

**DISPLAY**   **HDMI SW**

Ref. No.	Part No.	Description	Remark
R119	1-247-807-31	CARBON	100 5% 1/4W
R121	1-249-393-11	CARBON	10 5% 1/4W F
R198	1-249-385-11	CARBON	2.2 5% 1/4W F (EXCEPT US,CND)
R198	1-249-387-81	CARBON	3.3 5% 1/4W F (US,CND)
R199	1-249-385-11	CARBON	2.2 5% 1/4W F (EXCEPT US,CND)
R199	1-249-387-81	CARBON	3.3 5% 1/4W F (US,CND)
< ROTARY ENCODER >			
RV101	1-418-817-11	ENCODER, ROTARY (INPUT SELECTOR)	
RV102	1-418-725-41	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)	
< SWITCH >			
S101	1-771-410-21	SWITCH, TACTILE (DIRECT)	
S102	1-771-410-21	SWITCH, TACTILE (AUTO CAL)	
S103	1-771-410-21	SWITCH, TACTILE (INPUT MODE)	
S104	1-771-410-21	SWITCH, TACTILE (DISPLAY)	
S105	1-771-410-21	SWITCH, TACTILE (MOVIE)	
S106	1-771-410-21	SWITCH, TACTILE (A.F.D.)	
S107	1-771-410-21	SWITCH, TACTILE (2CH)	
S108	1-771-410-21	SWITCH, TACTILE (MEMORY/ENTER)	
S109	1-771-410-21	SWITCH, TACTILE (TUNING MODE)	
S110	1-771-410-21	SWITCH, TACTILE (TUNING -)	
S111	1-771-410-21	SWITCH, TACTILE (TUNING +)	
S124	1-771-410-21	SWITCH, TACTILE (MUSIC)	
*****			
A-1158-394-A	HDMI SW BOARD, COMPLETE *****		
< CAPACITOR >			
C5001	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C5002	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C5003	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C5004	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C5005	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C5006	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C5007	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C5008	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C5009	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C5010	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C5011	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C5012	1-112-788-11	ELECT CHIP	330uF 20% 6.3V
C5013	1-128-934-11	CERAMIC CHIP	0.33uF 20% 10V
C5014	1-112-788-11	ELECT CHIP	330uF 20% 6.3V
C5015	1-128-994-21	ELECT CHIP	47uF 20% 10V
C5016	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C5017	1-115-467-11	CERAMIC CHIP	0.22uF 10% 10V
C5018	1-115-467-11	CERAMIC CHIP	0.22uF 10% 10V
C5019	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C5020	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C5021	1-117-681-11	ELECT CHIP	100uF 20% 16V
C5022	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C5023	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C5024	1-128-934-11	CERAMIC CHIP	0.33uF 20% 10V

Ref. No.	Part No.	Description	Remark
C5027	1-128-994-21	ELECT CHIP	47uF 20% 10V
< CONNECTOR >			
CN5001	1-820-735-11	CONNECTOR, HDMI 19P (HDMI DVD IN)	
CN5002	1-820-735-11	CONNECTOR, HDMI 19P (HDMI VIDEO 2/BD IN)	
CN5003	1-820-735-11	CONNECTOR, HDMI 19P (HDMI OUT)	
* CN5004	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P	
< IC >			
IC5001	6-709-221-01	IC TMD5341PFCR	
IC5002	6-705-337-01	IC TK11150CSCL-G	
IC5003	6-705-468-01	IC BA33BC0FP-E2	
IC5004	6-704-099-01	IC TC7WZ08FK(TE85R)	
IC5005	6-707-207-01	IC SN74LVC1G3157DCKR	
IC5006	6-706-740-01	IC BA00BC0WFP-E2	
< FERRITE BEAD >			
L5013	1-400-862-11	BEAD, FERRITE	
< RESISTOR >			
R5001	1-218-861-11	METAL CHIP	3.9K 0.5% 1/10W
R5002	1-218-844-11	METAL CHIP	750 0.5% 1/10W
R5003	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5004	1-216-864-11	SHORT CHIP	0
R5005	1-216-864-11	SHORT CHIP	0
R5006	1-216-864-11	SHORT CHIP	0
R5007	1-216-864-11	SHORT CHIP	0
R5008	1-216-864-11	SHORT CHIP	0
R5009	1-216-864-11	SHORT CHIP	0
R5010	1-216-864-11	SHORT CHIP	0
R5011	1-216-864-11	SHORT CHIP	0
R5014	1-216-864-11	SHORT CHIP	0
R5015	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5016	1-216-864-11	SHORT CHIP	0
R5017	1-216-864-11	SHORT CHIP	0
R5018	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5019	1-216-864-11	SHORT CHIP	0
R5020	1-216-864-11	SHORT CHIP	0
R5022	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5024	1-216-864-11	SHORT CHIP	0
R5025	1-216-864-11	SHORT CHIP	0
R5026	1-216-809-11	METAL CHIP	100 5% 1/10W
R5027	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5028	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5029	1-216-841-11	METAL CHIP	47K 5% 1/10W
R5030	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5042	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5043	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5047	1-216-864-11	SHORT CHIP	0
R5048	1-216-864-11	SHORT CHIP	0
R5049	1-216-864-11	SHORT CHIP	0
R5050	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5051	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
R5052	1-216-841-11	METAL CHIP	47K 5% 1/10W
R5053	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R5054	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5055	1-216-833-11	METAL CHIP	10K 5% 1/10W

HDMI SW

HEADPHONE

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R5056	1-216-821-11	METAL CHIP	1K	5%	1/10W	C507	1-104-658-11	ELECT	100uF	20%	10V
R5060	1-216-864-11	SHORT CHIP	0			C508	1-126-947-11	ELECT	47uF	20%	35V
R5061	1-216-864-11	SHORT CHIP	0			C511	1-162-815-11	CERAMIC	47PF	5%	500V
R5068	1-216-845-11	METAL CHIP	100K	5%	1/10W	C512	1-162-815-11	CERAMIC	47PF	5%	500V
R5069	1-216-845-11	METAL CHIP	100K	5%	1/10W	C513	1-128-813-11	CERAMIC	220PF	5%	50V
R5072	1-216-809-11	METAL CHIP	100	5%	1/10W	C514	1-127-876-11	CERAMIC	0.01uF	10%	50V
R5073	1-216-864-11	SHORT CHIP	0			C515	1-126-964-11	ELECT	10uF	20%	50V
R5074	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C516	1-136-157-00	FILM	0.022uF	5%	50V
*****											
HEADPHONE BOARD											
*****											
< CONNECTOR >											
* CNP790	1-564-507-11	PLUG, CONNECTOR 4P									
< JACK >											
J790	1-815-314-21	JACK (PHONES)									
*****											
A-1221-595-A	MAIN BOARD, COMPLETE (US,CND)										
A-1221-608-A	MAIN BOARD, COMPLETE (AEP,UK,AUS,KR)										
A-1243-246-A	MAIN BOARD, COMPLETE (MY,SP,TH)										
A-1243-247-A	MAIN BOARD, COMPLETE (TW)										
A-1243-248-A	MAIN BOARD, COMPLETE (E2)										
*****											
7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3										
< CAPACITOR >											
C400	1-127-888-11	CERAMIC	0.1uF	10%	50V	C566	1-136-157-00	FILM	0.022uF	5%	50V
C402	1-126-964-11	ELECT	10uF	20%	50V	C600	1-128-579-11	ELECT	2.2uF	20%	100V
C403	1-162-294-31	CERAMIC	0.001uF	10%	50V	C601	1-126-963-11	ELECT	4.7uF	20%	50V
C404	1-162-294-31	CERAMIC	0.001uF	10%	50V	C602	1-128-809-11	CERAMIC	100PF	5%	50V
C405	1-126-963-11	ELECT	4.7uF	20%	50V	C603	1-128-809-11	CERAMIC	100PF	5%	50V
C421	1-126-963-11	ELECT	4.7uF	20%	50V	C604	1-101-810-00	CERAMIC	100PF	5%	500V
C422	1-126-963-11	ELECT	4.7uF	20%	50V	C606	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C423	1-126-963-11	ELECT	4.7uF	20%	50V	C607	1-104-658-11	ELECT	100uF	20%	10V
C424	1-126-963-11	ELECT	4.7uF	20%	50V	C608	1-126-947-11	ELECT	47uF	20%	35V
C425	1-126-963-11	ELECT	4.7uF	20%	50V	C611	1-162-815-11	CERAMIC	47PF	5%	500V
C426	1-126-963-11	ELECT	4.7uF	20%	50V	C612	1-162-815-11	CERAMIC	47PF	5%	500V
C431	1-126-964-11	ELECT	10uF	20%	50V	C613	1-128-813-11	CERAMIC	220PF	5%	50V
C432	1-126-964-11	ELECT	10uF	20%	50V	C614	1-127-876-11	CERAMIC	0.01uF	10%	50V
C433	1-126-964-11	ELECT	10uF	20%	50V	C615	1-126-964-11	ELECT	10uF	20%	50V
C434	1-126-964-11	ELECT	10uF	20%	50V	C616	1-136-157-00	FILM	0.022uF	5%	50V
C435	1-126-964-11	ELECT	10uF	20%	50V	C651	1-126-963-11	ELECT	4.7uF	20%	50V
C436	1-126-964-11	ELECT	10uF	20%	50V	C652	1-128-809-11	CERAMIC	100PF	5%	50V
C446	1-126-963-11	ELECT	4.7uF	20%	50V	C653	1-128-809-11	CERAMIC	100PF	5%	50V
C452	1-126-964-11	ELECT	10uF	20%	50V	C654	1-101-810-00	CERAMIC	100PF	5%	500V
C455	1-126-963-11	ELECT	4.7uF	20%	50V	C656	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C471	1-104-658-11	ELECT	100uF	20%	10V	C657	1-104-658-11	ELECT	100uF	20%	10V
C472	1-127-888-11	CERAMIC	0.1uF	10%	50V	C658	1-126-947-11	ELECT	47uF	20%	35V
C482	1-127-888-11	CERAMIC	0.1uF	10%	50V	C661	1-162-815-11	CERAMIC	47PF	5%	500V
C484	1-127-888-11	CERAMIC	0.1uF	10%	50V	C662	1-162-815-11	CERAMIC	47PF	5%	500V
C500	1-128-579-11	ELECT	2.2uF	20%	100V	C663	1-128-813-11	CERAMIC	220PF	5%	50V
C501	1-126-963-11	ELECT	4.7uF	20%	50V	C664	1-127-876-11	CERAMIC	0.01uF	10%	50V
C502	1-128-809-11	CERAMIC	100PF	5%	50V	C665	1-126-964-11	ELECT	10uF	20%	50V
C503	1-128-809-11	CERAMIC	100PF	5%	50V	C666	1-136-157-00	FILM	0.022uF	5%	50V
C504	1-101-810-00	CERAMIC	100PF	5%	500V	C700	1-128-579-11	ELECT	2.2uF	20%	100V
C506	1-107-583-11	CERAMIC	3PF	0.25PF	500V	C701	1-126-963-11	ELECT	4.7uF	20%	50V
C507	1-104-658-11	ELECT	100uF	20%	10V	C702	1-128-809-11	CERAMIC	100PF	5%	50V
C508	1-126-947-11	ELECT	47uF	20%	35V	C703	1-128-809-11	CERAMIC	100PF	5%	50V
C511	1-162-815-11	CERAMIC	47PF	5%	500V	C704	1-101-810-00	CERAMIC	100PF	5%	500V
C512	1-162-815-11	CERAMIC	47PF	5%	500V	C706	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C513	1-128-813-11	CERAMIC	220PF	5%	50V	C707	1-104-658-11	ELECT	100uF	20%	10V
C514	1-127-876-11	CERAMIC	0.01uF	10%	50V	C708	1-126-947-11	ELECT	47uF	20%	35V
C515	1-126-964-11	ELECT	10uF	20%	50V	C711	1-162-815-11	CERAMIC	47PF	5%	500V
C516	1-136-157-00	FILM	0.022uF	5%	50V	C712	1-162-815-11	CERAMIC	47PF	5%	500V
C551	1-126-963-11	ELECT	4.7uF	20%	50V						
C552	1-128-809-11	CERAMIC	100PF	5%	50V						
C553	1-128-809-11	CERAMIC	100PF	5%	50V						
C554	1-101-810-00	CERAMIC	100PF	5%	500V						
C556	1-107-583-11	CERAMIC	3PF	0.25PF	500V						
C557	1-104-658-11	ELECT	100uF	20%	10V						
C558	1-126-947-11	ELECT	47uF	20%	35V						
C561	1-162-815-11	CERAMIC	47PF	5%	500V						
C562	1-162-815-11	CERAMIC	47PF	5%	500V						
C563	1-128-813-11	CERAMIC	220PF	5%	50V						
C564	1-127-876-11	CERAMIC	0.01uF	10%	50V						
C565	1-126-964-11	ELECT	10uF	20%	50V						
C601	1-126-963-11	ELECT	4.7uF	20%	50V						
C602	1-128-809-11	CERAMIC	100PF	5%	50V						
C603	1-128-809-11	CERAMIC	100PF	5%	50V						
C604	1-101-810-00	CERAMIC	100PF	5%	500V						
C606	1-107-583-11	CERAMIC	3PF	0.25PF	500V						
C607	1-104-658-11	ELECT	100uF	20%	10V						
C608	1-126-947-11	ELECT	47uF	20%	35V						
C611	1-162-815-11	CERAMIC	47PF	5%	500V						
C612	1-162-815-11	CERAMIC	47PF	5%	500V						
C613	1-128-813-11	CERAMIC	220PF	5%	50V						
C614	1-127-876-11	CERAMIC	0.01uF	10%	50V						
C615	1-126-964-11	ELECT	10uF	20%	50V						
C616	1-136-157-00	FILM	0.022uF	5%	50V						
C651	1-126-963-11	ELECT	4.7uF	20%	50V						
C652	1-128-809-11	CERAMIC	100PF	5%	50V						
C653	1-128-809-11	CERAMIC	100PF	5%	50V						
C654	1-101-810-00	CERAMIC	100PF	5%	500V						
C656	1-107-583-11	CERAMIC	3PF	0.25PF	500V						
C657	1-104-658-11	ELECT	100uF	20%	10V						
C658	1-126-947-11	ELECT	47uF	20%	35V						
C661	1-162-815-11	CERAMIC	47PF	5%	500V						
C662	1-162-815-11	CERAMIC	47PF	5%	500V						
C663	1-128-813-11	CERAMIC	220PF	5%	50V						
C664	1-127-876-11	CERAMIC	0.01uF	10%	50V						
C665	1-126-964-11	ELECT	10uF	20%	50V						
C666	1-136-157-00	FILM	0.022uF	5%	50V						
C700	1-128-579-11	ELECT	2.2uF	20%	100V						
C701	1-126-963-11	ELECT	4.7uF	20%	50V						
C702	1-128-809-11	CERAMIC	100PF	5%	50V						
C703	1-128-809-11	CERAMIC	100PF	5%	50V						
C704	1-101-810-00	CERAMIC	100PF	5%	500V						
C706	1-107-583-11	CERAMIC	3PF	0.25PF	500V						
C707	1-104-658-11	ELECT	100uF	20%	10V						
C708	1-126-947-11	ELECT	47uF	20%	35V						
C711	1-162-815-11	CERAMIC	47PF	5%	500V						
C712	1-162-815-11	CERAMIC	47PF	5%	500V						

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Ref. No.	Part No.	Description	Remark
C713	1-128-813-11	CERAMIC	220PF 5% 50V
C714	1-127-876-11	CERAMIC	0.01uF 10% 50V
C715	1-126-964-11	ELECT	10uF 20% 50V
C716	1-136-157-00	FILM	0.022uF 5% 50V
C801	1-135-798-11	CERAMIC	0.22uF 50V
C802	1-135-798-11	CERAMIC	0.22uF 50V
C803	1-126-936-11	ELECT	3300uF 20% 16V
C806	1-126-947-11	ELECT	47uF 20% 35V
C807	1-126-947-11	ELECT	47uF 20% 35V
C808	1-126-947-11	ELECT	47uF 20% 35V
C811	1-135-851-21	MYLAR	0.22uF 100V
C812	1-135-851-21	MYLAR	0.22uF 100V
C813	1-165-960-11	ELECT(BLOCK)	6800uF 20% 71V
C814	1-165-960-11	ELECT(BLOCK)	6800uF 20% 71V
C815	1-128-582-11	ELECT	10uF 20% 100V
C816	1-128-582-11	ELECT	10uF 20% 100V
C821	1-137-194-81	FILM	0.47uF 5% 50V
C822	1-137-194-81	FILM	0.47uF 5% 50V
C823	1-126-947-11	ELECT	47uF 20% 35V
C824	1-126-947-11	ELECT	47uF 20% 35V
C851	1-127-888-11	CERAMIC	0.1uF 10% 50V
C881	1-126-923-11	ELECT	220uF 20% 10V
C882	1-126-964-11	ELECT	10uF 20% 50V
CC01	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND)
CC02	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND)
CC03	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND)
CC04	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND)
CC05	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND)
CC11	1-127-876-11	CERAMIC	0.01uF 10% 50V (EXCEPT US,CND)
CC12	1-127-876-11	CERAMIC	0.01uF 10% 50V (EXCEPT US,CND)
CC13	1-127-876-11	CERAMIC	0.01uF 10% 50V (EXCEPT US,CND)
CC14	1-127-876-11	CERAMIC	0.01uF 10% 50V (EXCEPT US,CND)
CC15	1-127-876-11	CERAMIC	0.01uF 10% 50V (EXCEPT US,CND)
CC51	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND)
CC52	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND)
CC53	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND)
CC54	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND)
CC55	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND)
< CONNECTOR >			
CNP501	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P	
CNP502	1-573-843-11	CONNECTOR, BOARD TO BOARD 11P	
* CNP503	1-564-510-11	PLUG, CONNECTOR 7P	
* CNP732	1-564-506-11	PLUG, CONNECTOR 3P	
* CNP901	1-564-687-11	PIN, CONNECTOR (3.96mm PITCH) 3P	

Ref. No.	Part No.	Description	Remark
CNP902	1-691-767-11	PLUG (MICRO CONNECTOR) 5P	
* CNP908	1-564-506-11	PLUG, CONNECTOR 3P	
* CNP916	1-691-406-11	CONNECTOR, BOARD TO BOARD 7P	
< DIODE >			
D501	8-719-991-33	DIODE 1SS133T-77	
D502	8-719-991-33	DIODE 1SS133T-77	
D503	8-719-991-33	DIODE 1SS133T-77	
D551	8-719-991-33	DIODE 1SS133T-77	
D552	8-719-991-33	DIODE 1SS133T-77	
D553	8-719-991-33	DIODE 1SS133T-77	
D601	8-719-991-33	DIODE 1SS133T-77	
D602	8-719-991-33	DIODE 1SS133T-77	
D603	8-719-991-33	DIODE 1SS133T-77	
D651	8-719-991-33	DIODE 1SS133T-77	
D652	8-719-991-33	DIODE 1SS133T-77	
D701	8-719-991-33	DIODE 1SS133T-77	
D702	8-719-991-33	DIODE 1SS133T-77	
D703	8-719-991-33	DIODE 1SS133T-77	
D752	8-719-991-33	DIODE 1SS133T-77	
D791	8-719-991-33	DIODE 1SS133T-77	
D801	8-719-986-50	DIODE HZS22-1LTA	
D802	8-719-068-24	DIODE HZ5.6BP-TK	
D804	6-500-522-11	DIODE 10EDB40-TA2B5	
D805	6-500-522-11	DIODE 10EDB40-TA2B5	
D806	6-500-522-11	DIODE 10EDB40-TA2B5	
D807	6-500-522-11	DIODE 10EDB40-TA2B5	
D811	8-719-081-52	DIODE D5SBA20-4003	
D821	8-719-043-76	DIODE AK04V0	
D851	8-719-991-33	DIODE 1SS133T-77	
D852	8-719-934-21	DIODE HZS30-1L	
D881	8-719-991-33	DIODE 1SS133T-77	
D882	8-719-991-33	DIODE 1SS133T-77	
D883	8-719-991-33	DIODE 1SS133T-77	
D884	8-719-991-33	DIODE 1SS133T-77	
< IC >			
IC400	6-707-169-01	IC M61542FP	
IC501	6-710-828-01	IC STK350-530T-E	
IC601	6-710-828-01	IC STK350-530T-E	
IC701	6-710-828-01	IC STK350-530T-E	
IC821	8-759-071-48	IC TA7807S	
IC822	8-759-071-47	IC TA79007S	
IC850	8-759-167-88	IC NJM4565D	
< JACK >			
J400	1-774-411-11	JACK, PIN 6P (SA-CD/CD AUDIO IN, TV AUDIO IN,SAT AUDIO IN)	
J401	1-794-981-11	JACK, PIN 4P (VIDEO 1 AUDIO OUT/AUDIO IN)	
J403	1-770-377-21	JACK, PIN 1P (SUB WOOFER AUDIO OUT)	
< RESISTOR >			
JW753	1-247-873-11	CARBON 56K 5% 1/4W	
< COIL >			
L501	1-420-872-52	COIL, AIR-CORE	
L551	1-420-872-52	COIL, AIR-CORE	
L601	1-420-872-52	COIL, AIR-CORE	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
L651	1-420-872-52	COIL, AIR-CORE		R472	1-247-831-11	CARBON 1K 5%	1/4W
L701	1-420-872-52	COIL, AIR-CORE		R473	1-249-421-11	CARBON 2.2K 5%	1/4W
		< TRANSISTOR >		R479	1-249-421-11	CARBON 2.2K 5%	1/4W
Q471	8-729-922-37	TRANSISTOR 2SD2144S-UVW		R500	1-247-871-11	CARBON 47K 5%	1/4W
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE		R501	1-247-831-11	CARBON 1K 5%	1/4W
Q502	8-729-141-30	TRANSISTOR 2SC3623A-LK		R502	1-249-439-11	CARBON 68K 5%	1/4W
Q505	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP		R503	1-249-421-11	CARBON 2.2K 5%	1/4W
Q506	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP		R504	1-249-439-11	CARBON 68K 5%	1/4W
Q507	8-729-281-53	TRANSISTOR 2SC1815-GR		R505	1-249-421-11	CARBON 2.2K 5%	1/4W
Q508	8-729-119-78	TRANSISTOR 2SC2785-HFE		R506	1-249-440-11	CARBON 82K 5%	1/4W
Q509	8-729-119-78	TRANSISTOR 2SC2785-HFE		R507	1-249-414-11	CARBON 560 5%	1/4W
Q551	8-729-119-76	TRANSISTOR 2SA1175-HFE		R508	1-249-405-11	CARBON 100 5%	1/4W F
Q552	8-729-141-30	TRANSISTOR 2SC3623A-LK		R509	1-249-405-11	CARBON 100 5%	1/4W F
Q555	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP		R510	1-234-182-11	ENCAPSULATED COMPONENT 0.22X2 5W	
Q556	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP		R511	1-247-847-11	CARBON 4.7K 5%	1/4W
Q557	8-729-281-53	TRANSISTOR 2SC1815-GR		R512	1-240-855-81	CARBON 6.2K 5%	1/4W F
Q560	8-729-119-78	TRANSISTOR 2SC2785-HFE		R513	1-249-419-11	CARBON 1.5K 5%	1/4W
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE		R514	1-249-431-11	CARBON 15K 5%	1/4W
Q602	8-729-141-30	TRANSISTOR 2SC3623A-LK		R515	1-247-863-11	CARBON 22K 5%	1/4W
Q605	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP		R516	1-247-843-11	CARBON 3.3K 5%	1/4W
Q606	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP		R517	1-249-431-11	CARBON 15K 5%	1/4W
Q607	8-729-281-53	TRANSISTOR 2SC1815-GR		R518	1-247-863-11	CARBON 22K 5%	1/4W
Q608	8-729-119-78	TRANSISTOR 2SC2785-HFE		R519	1-247-863-11	CARBON 22K 5%	1/4W
Q651	8-729-119-76	TRANSISTOR 2SA1175-HFE		R520	1-249-439-11	CARBON 68K 5%	1/4W
Q652	8-729-141-30	TRANSISTOR 2SC3623A-LK		R521	1-249-393-11	CARBON 10 5%	1/4W F
Q655	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP		R522	1-247-871-11	CARBON 47K 5%	1/4W
Q656	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP		R523	1-249-389-11	CARBON 4.7 5%	1/4W F
Q657	8-729-281-53	TRANSISTOR 2SC1815-GR		R524	1-249-404-00	CARBON 82 5%	1/4W F
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE		R525	1-249-421-11	CARBON 2.2K 5%	1/4W
Q702	8-729-141-30	TRANSISTOR 2SC3623A-LK		△ R531	1-215-868-00	METAL OXIDE 680 5%	1W F
Q705	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP		△ R532	1-215-868-00	METAL OXIDE 680 5%	1W F
Q706	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP		R551	1-247-831-11	CARBON 1K 5%	1/4W
Q707	8-729-281-53	TRANSISTOR 2SC1815-GR		R552	1-249-439-11	CARBON 68K 5%	1/4W
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE		R553	1-249-421-11	CARBON 2.2K 5%	1/4W
Q801	8-729-140-97	TRANSISTOR 2SB734-34		R554	1-249-439-11	CARBON 68K 5%	1/4W
Q851	8-729-281-53	TRANSISTOR 2SC1815-GR		R555	1-249-421-11	CARBON 2.2K 5%	1/4W
Q852	8-729-029-40	TRANSISTOR DTA124ESA		R556	1-249-440-11	CARBON 82K 5%	1/4W
Q881	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP		R557	1-249-414-11	CARBON 560 5%	1/4W
Q882	8-729-119-78	TRANSISTOR 2SC2785-HFE		R558	1-249-405-11	CARBON 100 5%	1/4W F
Q883	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R559	1-249-405-11	CARBON 100 5%	1/4W F
		< RESISTOR >		R560	1-234-182-11	ENCAPSULATED COMPONENT 0.22X2 5W	
R401	1-247-831-11	CARBON 1K 5%	1/4W	R561	1-247-847-11	CARBON 4.7K 5%	1/4W
R402	1-247-831-11	CARBON 1K 5%	1/4W	R562	1-240-855-81	CARBON 6.2K 5%	1/4W F
R403	1-247-831-11	CARBON 1K 5%	1/4W	R563	1-249-419-11	CARBON 1.5K 5%	1/4W
R404	1-247-831-11	CARBON 1K 5%	1/4W	R564	1-249-431-11	CARBON 15K 5%	1/4W
R405	1-247-831-11	CARBON 1K 5%	1/4W	R565	1-247-863-11	CARBON 22K 5%	1/4W
R406	1-247-807-31	CARBON 100 5%	1/4W	R566	1-247-843-11	CARBON 3.3K 5%	1/4W
R407	1-247-807-31	CARBON 100 5%	1/4W	R567	1-249-431-11	CARBON 15K 5%	1/4W
R416	1-247-831-11	CARBON 1K 5%	1/4W	R568	1-247-863-11	CARBON 22K 5%	1/4W
R451	1-247-831-11	CARBON 1K 5%	1/4W	R569	1-247-863-11	CARBON 22K 5%	1/4W
R452	1-247-831-11	CARBON 1K 5%	1/4W	R570	1-249-439-11	CARBON 68K 5%	1/4W
R453	1-247-831-11	CARBON 1K 5%	1/4W	R571	1-249-393-11	CARBON 10 5%	1/4W F
R454	1-247-831-11	CARBON 1K 5%	1/4W	R572	1-247-871-11	CARBON 47K 5%	1/4W
R455	1-247-831-11	CARBON 1K 5%	1/4W	R573	1-249-389-11	CARBON 4.7 5%	1/4W F
R469	1-247-831-11	CARBON 1K 5%	1/4W	R574	1-249-404-00	CARBON 82 5%	1/4W F
R471	1-249-415-11	CARBON 680 5%	1/4W	R600	1-247-871-11	CARBON 47K 5%	1/4W
				R601	1-247-831-11	CARBON 1K 5%	1/4W
				R602	1-249-439-11	CARBON 68K 5%	1/4W



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Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R603	1-249-421-11	CARBON	2.2K	5%	1/4W	R712	1-240-855-81	CARBON	6.2K	5%	1/4W F
R604	1-249-439-11	CARBON	68K	5%	1/4W	R713	1-249-419-11	CARBON	1.5K	5%	1/4W
R605	1-249-421-11	CARBON	2.2K	5%	1/4W	R714	1-249-431-11	CARBON	15K	5%	1/4W
R606	1-249-440-11	CARBON	82K	5%	1/4W	R715	1-247-863-11	CARBON	22K	5%	1/4W
R607	1-249-414-11	CARBON	560	5%	1/4W	R716	1-247-843-11	CARBON	3.3K	5%	1/4W
R608	1-249-405-11	CARBON	100	5%	1/4W F	R717	1-249-431-11	CARBON	15K	5%	1/4W
R609	1-249-405-11	CARBON	100	5%	1/4W F	R718	1-247-863-11	CARBON	22K	5%	1/4W
R610	1-234-182-11	ENCAPSULATED COMPONENT	0.22X2	5W		R719	1-247-863-11	CARBON	22K	5%	1/4W
R611	1-247-847-11	CARBON	4.7K	5%	1/4W	R720	1-249-439-11	CARBON	68K	5%	1/4W
R612	1-240-855-81	CARBON	6.2K	5%	1/4W F	R721	1-249-393-11	CARBON	10	5%	1/4W F
R613	1-249-419-11	CARBON	1.5K	5%	1/4W	R722	1-247-871-11	CARBON	47K	5%	1/4W
R614	1-249-431-11	CARBON	15K	5%	1/4W	R723	1-249-389-11	CARBON	4.7	5%	1/4W F
R615	1-247-863-11	CARBON	22K	5%	1/4W	R724	1-249-404-00	CARBON	82	5%	1/4W F
R616	1-247-843-11	CARBON	3.3K	5%	1/4W	R725	1-247-807-31	CARBON	100	5%	1/4W
R617	1-249-431-11	CARBON	15K	5%	1/4W	R752	1-247-873-11	CARBON	56K	5%	1/4W
R618	1-247-863-11	CARBON	22K	5%	1/4W	R773	1-249-389-11	CARBON	4.7	5%	1/4W F
R619	1-247-863-11	CARBON	22K	5%	1/4W	R780	1-247-847-11	CARBON	4.7K	5%	1/4W
R620	1-249-439-11	CARBON	68K	5%	1/4W	R782	1-247-879-11	CARBON	100K	5%	1/4W
R621	1-249-393-11	CARBON	10	5%	1/4W F	R783	1-247-879-11	CARBON	100K	5%	1/4W
R622	1-247-871-11	CARBON	47K	5%	1/4W	R791	1-249-421-11	CARBON	2.2K	5%	1/4W
R623	1-249-389-11	CARBON	4.7	5%	1/4W F	R793	1-249-404-00	CARBON	82	5%	1/4W F
R624	1-249-404-00	CARBON	82	5%	1/4W F	R802	1-249-409-11	CARBON	220	5%	1/4W F
R625	1-249-421-11	CARBON	2.2K	5%	1/4W	R803	1-249-389-11	CARBON	4.7	5%	1/4W F
R651	1-247-831-11	CARBON	1K	5%	1/4W	R804	1-249-429-11	CARBON	10K	5%	1/4W
R652	1-249-439-11	CARBON	68K	5%	1/4W	R806	1-247-863-11	CARBON	22K	5%	1/4W
R653	1-249-421-11	CARBON	2.2K	5%	1/4W	R815	1-249-381-11	CARBON	1	5%	1/4W F
R654	1-249-439-11	CARBON	68K	5%	1/4W	R816	1-249-381-11	CARBON	1	5%	1/4W F
R655	1-249-421-11	CARBON	2.2K	5%	1/4W	R851	1-249-429-11	CARBON	10K	5%	1/4W
R656	1-249-440-11	CARBON	82K	5%	1/4W	R852	1-249-429-11	CARBON	10K	5%	1/4W
R657	1-249-414-11	CARBON	560	5%	1/4W	R853	1-249-429-11	CARBON	10K	5%	1/4W
R658	1-249-405-11	CARBON	100	5%	1/4W F	R854	1-249-435-11	CARBON	33K	5%	1/4W
R659	1-249-405-11	CARBON	100	5%	1/4W F	R855	1-247-887-00	CARBON	220K	5%	1/4W
R660	1-234-182-11	ENCAPSULATED COMPONENT	0.22X2	5W		R856	1-247-895-00	CARBON	470K	5%	1/4W
R661	1-247-847-11	CARBON	4.7K	5%	1/4W	R857	1-249-429-11	CARBON	10K	5%	1/4W
R662	1-240-855-81	CARBON	6.2K	5%	1/4W F	△R858	1-215-888-00	METAL OXIDE	220	5%	2W F (US,CND)
R663	1-249-419-11	CARBON	1.5K	5%	1/4W	△R858	1-215-890-11	METAL OXIDE	470	5%	2W F (EXCEPT US,CND)
R664	1-249-431-11	CARBON	15K	5%	1/4W	△R859	1-215-888-00	METAL OXIDE	220	5%	2W F (US,CND)
R665	1-247-863-11	CARBON	22K	5%	1/4W	△R859	1-216-453-00	METAL OXIDE	270	5%	2W F (EXCEPT US,CND)
R666	1-247-843-11	CARBON	3.3K	5%	1/4W	R881	1-247-879-11	CARBON	100K	5%	1/4W
R667	1-249-431-11	CARBON	15K	5%	1/4W	R882	1-249-429-11	CARBON	10K	5%	1/4W
R668	1-247-863-11	CARBON	22K	5%	1/4W	R883	1-249-427-11	CARBON	6.8K	5%	1/4W
R669	1-247-863-11	CARBON	22K	5%	1/4W	R884	1-249-436-11	CARBON	39K	5%	1/4W
R670	1-249-439-11	CARBON	68K	5%	1/4W	R885	1-247-831-11	CARBON	1K	5%	1/4W
R671	1-249-393-11	CARBON	10	5%	1/4W F	△R910	1-243-635-11	FUSIBLE	0.33	5%	1/2W F
R672	1-247-871-11	CARBON	47K	5%	1/4W	RR11	1-249-393-11	CARBON	10	5%	1/4W F (EXCEPT US,CND)
R673	1-249-389-11	CARBON	4.7	5%	1/4W F	RR12	1-249-393-11	CARBON	10	5%	1/4W F (EXCEPT US,CND)
R700	1-247-871-11	CARBON	47K	5%	1/4W	RR13	1-249-393-11	CARBON	10	5%	1/4W F (EXCEPT US,CND)
R701	1-247-831-11	CARBON	1K	5%	1/4W	RR14	1-249-393-11	CARBON	10	5%	1/4W F (EXCEPT US,CND)
R702	1-249-439-11	CARBON	68K	5%	1/4W	RR15	1-249-393-11	CARBON	10	5%	1/4W F (EXCEPT US,CND)
R703	1-249-421-11	CARBON	2.2K	5%	1/4W						
R704	1-249-439-11	CARBON	68K	5%	1/4W						
R705	1-249-421-11	CARBON	2.2K	5%	1/4W						
R706	1-249-440-11	CARBON	82K	5%	1/4W						
R707	1-249-414-11	CARBON	560	5%	1/4W						
R708	1-249-405-11	CARBON	100	5%	1/4W F						
R709	1-249-405-11	CARBON	100	5%	1/4W F						
R710	1-234-182-11	ENCAPSULATED COMPONENT	0.22X2	5W							
R711	1-247-847-11	CARBON	4.7K	5%	1/4W						

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< RELAY >		D913	6-500-522-11	DIODE 10EDB40-TA2B5	
RY501	1-755-421-11	RELAY		D914	8-719-991-33	DIODE 1SS133T-77	
RY502	1-755-421-11	RELAY		D915	8-719-991-33	DIODE 1SS133T-77	
RY551	1-755-421-11	RELAY		D920	6-500-522-11	DIODE 10EDB40-TA2B5	
RY601	1-755-421-11	RELAY		D921	6-500-522-11	DIODE 10EDB40-TA2B5	
RY701	1-755-421-11	RELAY		D922	6-500-522-11	DIODE 10EDB40-TA2B5	
RY702	1-755-267-11	RELAY		D923	6-500-522-11	DIODE 10EDB40-TA2B5	
		< TERMINAL BOARD >				< GROUND TERMINAL >	
TM601	1-694-785-11	TERMINAL BOARD (4P) (SPEAKERS FRONT B)		G901	1-537-738-21	TERMINAL, GROUND	
TM603	1-780-449-11	BANANA-PUSH TERMINAL BOARD (8P) (SPEAKERS SURROUND,FRONT A)				< TRANSISTOR >	
TM603	1-780-498-11	BANANA-PUSH TERMINAL BOARD (8P) (EXCEPT US,CND) (SPEAKERS SURROUND,FRONT A) (US,CND)		Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		*****		Q911	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		POWER BOARD				< RESISTOR >	
		*****		△ R810	1-243-634-91	FUSIBLE 0.22 5% 1/2W F	
		< CONNECTOR >		△ R812	1-243-634-91	FUSIBLE 0.22 5% 1/2W F	
* CNP152	1-564-506-11	PLUG, CONNECTOR 3P		△ R900	1-219-237-91	SOLID 3.3M 20% 1/2W F (US,CND)	
		< RESISTOR >		R903	1-247-871-11	CARBON 47K 5% 1/4W	
R130	1-249-415-11	CARBON 680 5% 1/4W		R904	1-247-847-11	CARBON 4.7K 5% 1/4W	
		< SWITCH >		R905	1-249-381-11	CARBON 1 5% 1/4W F	
S120	1-771-410-21	SWITCH, TACTILE (SPEAKERS (OFF/A/B))		R911	1-247-871-11	CARBON 47K 5% 1/4W	
S153	1-771-410-21	SWITCH, TACTILE (I/⏻)		R912	1-249-435-11	CARBON 33K 5% 1/4W	
		*****		R913	1-249-429-11	CARBON 10K 5% 1/4W	
		STANDBY BOARD				< RELAY >	
		*****		△ RY901	1-755-439-11	RELAY	
1-533-217-41		HOLDER, FUSE				< TRANSFORMER >	
		< CAPACITOR >		△ T902	1-443-516-11	TRANSFORMER, POWER (SUB) (US,CND)	
C900	1-127-888-11	CERAMIC 0.1uF 10% 50V		△ T902	1-443-517-11	TRANSFORMER, POWER (SUB) (AEP,UK,AUS,KR,MY,SP,TH)	
C901	1-135-798-11	CERAMIC 0.22uF 50V		△ T902	1-443-519-11	TRANSFORMER, POWER (SUB) (TW)	
C902	1-135-798-11	CERAMIC 0.22uF 50V		△ T902	1-443-520-11	TRANSFORMER, POWER (SUB) (E2)	
C911	1-135-798-11	CERAMIC 0.22uF 50V				*****	
C912	1-135-798-11	CERAMIC 0.22uF 50V				VIDEO BOARD	
		< CONNECTOR >				*****	
* CNP801	1-564-510-11	PLUG, CONNECTOR 7P		C200	1-128-805-11	CERAMIC 47PF 5% 50V	
CNP900	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P		C201	1-128-805-11	CERAMIC 47PF 5% 50V	
* CNP903	1-564-506-11	PLUG, CONNECTOR 3P		C206	1-126-964-11	ELECT 10uF 20% 50V	
* CNP904	1-565-792-11	PIN, CONNECTOR (3.96mm PITCH) 2P		C207	1-126-964-11	ELECT 10uF 20% 50V	
* CNP906	1-691-408-11	CONNECTOR, BOARD TO BOARD 7P		C208	1-126-964-11	ELECT 10uF 20% 50V	
		< DIODE >		C210	1-126-964-11	ELECT 10uF 20% 50V	
D901	8-719-991-33	DIODE 1SS133T-77		C213	1-126-934-11	ELECT 220uF 20% 16V	
D910	6-500-522-11	DIODE 10EDB40-TA2B5		C214	1-164-159-11	CERAMIC 0.1uF 50V	
D911	6-500-522-11	DIODE 10EDB40-TA2B5		C215	1-164-159-11	CERAMIC 0.1uF 50V	
D912	6-500-522-11	DIODE 10EDB40-TA2B5		C248	1-128-825-11	CERAMIC 0.0022uF 5% 50V	
				C250	1-128-825-11	CERAMIC 0.0022uF 5% 50V	
				C251	1-126-964-11	ELECT 10uF 20% 50V	
				C252	1-126-964-11	ELECT 10uF 20% 50V	
				C253	1-126-964-11	ELECT 10uF 20% 50V	
				C254	1-126-964-11	ELECT 10uF 20% 50V	
				C255	1-126-964-11	ELECT 10uF 20% 50V	
				C256	1-126-964-11	ELECT 10uF 20% 50V	

# STR-DG510

Ver. 1.2

## VIDEO

Ref. No.	Part No.	Description	Remark
C257	1-127-888-11	CERAMIC 0.1uF 10%	50V
C258	1-126-947-11	ELECT 47uF 20%	35V
C259	1-127-888-11	CERAMIC 0.1uF 10%	50V
C260	1-126-947-11	ELECT 47uF 20%	35V
C809	1-126-934-11	ELECT 220uF 20%	16V
C825	1-164-159-11	CERAMIC 0.1uF	50V
C826	1-164-159-11	CERAMIC 0.1uF	50V
< CONNECTOR >			
* CNP156	1-564-506-11	PLUG, CONNECTOR 3P	
CNS251	1-784-774-11	CONNECTOR, FFC 13P	
< IC >			
IC203	8-759-333-84	IC NJM2279D	
IC251	6-707-363-01	IC NJM2586AL	
IC804	8-759-245-79	IC TA79005S	
IC807	8-759-231-53	IC TA7805S	
< JACK >			
J201	1-815-043-11	JACK, PIN 2P (VIDEO 1 VIDEO IN, MONITOR VIDEO OUT)	
J203	1-794-978-11	JACK, PIN 3P (SAT VIDEO IN,DVD VIDEO IN, VIDEO 1 VIDEO OUT)	
J251	1-816-592-11	JACK, PIN 9P (COMPONENT VIDEO SAT IN,DVD IN,MONITOR OUT)	
< RESISTOR >			
R200	1-247-804-11	CARBON 75 5%	1/4W
R201	1-247-804-11	CARBON 75 5%	1/4W
R218	1-247-804-11	CARBON 75 5%	1/4W
R220	1-247-804-11	CARBON 75 5%	1/4W
R221	1-247-804-11	CARBON 75 5%	1/4W
R250	1-247-804-11	CARBON 75 5%	1/4W
R251	1-247-804-11	CARBON 75 5%	1/4W
R252	1-247-804-11	CARBON 75 5%	1/4W
R253	1-247-831-11	CARBON 1K 5%	1/4W
R254	1-247-831-11	CARBON 1K 5%	1/4W
R255	1-247-831-11	CARBON 1K 5%	1/4W
R256	1-247-804-11	CARBON 75 5%	1/4W
R257	1-247-804-11	CARBON 75 5%	1/4W
R258	1-247-804-11	CARBON 75 5%	1/4W
R259	1-247-804-11	CARBON 75 5%	1/4W
R260	1-247-804-11	CARBON 75 5%	1/4W
R261	1-247-804-11	CARBON 75 5%	1/4W

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Ref. No.	Part No.	Description	Remark
MISCELLANEOUS *****			
57	1-828-994-11	WIRE (FLAT TYPE) (17 CORE)	
101	1-828-953-11	WIRE (FLAT TYPE) (9 CORE) (EXCEPT AEP,UK)	
101	1-828-963-11	WIRE (FLAT TYPE) (11 CORE) (AEP,UK)	
102	1-828-971-11	WIRE (FLAT TYPE) (13 CORE)	
△105	1-696-848-81	CORD, POWER (AUS)	
△105	1-769-079-23	CORD, POWER (KR)	
△105	1-777-071-23	CORD, POWER (E2)	
△105	1-777-071-83	CORD, POWER (AEP,UK,MY,SP,TH)	
△105	1-783-820-11	CORD, POWER (US,CND)	
△105	1-827-597-41	CORD, POWER (TW)	
△F901	1-532-464-33	FUSE (T2.5AL/250V) (AEP,UK,AUS,KR,MY,SP,TH)	
△F901	1-532-505-33	FUSE (T5AL/250V) (E2,TW)	
△F901	1-533-454-12	FUSE, GLASS TUBE (DIA. 5) (6.3A/125V) (US,CND)	
△F902	1-532-464-33	FUSE (T2.5AL/250V) (E2)	
△F903	1-532-464-33	FUSE (T2.5AL/250V) (E2)	
Q503	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
Q504	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
Q553	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
Q554	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
Q603	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
Q604	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
Q653	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
Q654	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
Q703	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
Q704	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
△T901	1-439-550-21	TRANSFORMER, POWER (MAIN) (AEP,UK,AUS,KR)	
△T901	1-439-552-21	TRANSFORMER, POWER (MAIN) (TW)	
△T901	1-439-553-31	TRANSFORMER, POWER (MAIN) (E2)	
△T901	1-439-583-11	TRANSFORMER, POWER (MAIN) (US,CND)	
△T901	1-445-019-11	TRANSFORMER, POWER (MAIN) (MY,SP,TH)	
TN1	1-693-728-11	TUNER (FM/AM) (ANTENNA) (US,CND,E2)	
TN1	1-693-735-11	TUNER (FM/AM) (ANTENNA) (AUS,KR,MY,SP,TH,TW)	
TN1	1-693-737-11	TUNER (FM/AM) (ANTENNA) (AEP,UK)	

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Ref. No.	Part No.	Description	Remark
		ACCESSORIES *****	
	1-480-097-11	STANDARD COMMANDER (RM-AAU013) (including BATTERY LID)	
	1-501-374-12	ANTENNA, LOOP (AM)	
	1-501-807-12	ANTENNA (FM) (EXCEPT US,CND,E2)	
△	1-542-710-11	MEASUREMENT MIC (MONO) (ECM-AC2)	
	1-569-008-22	ADAPTOR, CONVERSION 2P (E2)	
△	1-770-019-61	ADAPTOR, CONVERSION PLUG (UK)	
	1-793-184-23	CONNECTOR (F TYPE ADAPTOR) (FM) (US,CND,E2)	
	2-898-429-11	MANUAL, INSTRUCTION (ENGLISH) (EXCEPT KR)	
	2-898-429-21	MANUAL, INSTRUCTION (FRENCH) (CND,AEP,E2,MY,SP,TH)	
	2-898-429-31	MANUAL, INSTRUCTION (SPANISH) (AEP,E2,MY,SP,TH)	
	2-898-429-41	MANUAL, INSTRUCTION (GERMAN,DUTCH, SWEDISH) (AEP)	
	2-898-429-51	MANUAL, INSTRUCTION (ITALIAN,POLISH) (AEP)	
	2-898-429-61	MANUAL, INSTRUCTION (DANISH,FINNISH) (AEP)	
	2-898-429-71	MANUAL, INSTRUCTION (PORTUGUESE) (AEP)	
	2-898-429-81	MANUAL, INSTRUCTION (RUSSIAN) (AEP)	
	3-097-046-11	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (MY,SP,TH,TW)	
	3-097-046-21	MANUAL, INSTRUCTION (KOREAN) (KR)	
	3-097-046-41	MANUAL, INSTRUCTION (GREEK) (AEP)	
	3-097-046-51	MANUAL, INSTRUCTION (TURKISH) (AEP)	
	3-097-046-61	MANUAL, INSTRUCTION (HUNGARIAN,CZECH) (AEP)	
	3-097-046-71	MANUAL, INSTRUCTION (SLOVAKIAN) (AEP)	

