

STR-DA1500ES

SERVICE MANUAL

Ver. 1.0 2009.05

US Model
Canadian Model
AEP Model
UK Model



Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

(Models of area code UC only)

With 8 ohms loads, both channels driven, from 20 – 20,000 Hz; rated 95 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 UC¹⁾

Minimum RMS Output Power

(8 ohms, 20 Hz – 20 kHz, THD 0.09%)

95 W + 95 W

Stereo Mode Output Power (8 ohms, 1 kHz, THD 0.7%)

105 W + 105 W

¹⁾Measured under the following conditions:

Area code	Power requirements
US, CND	120 V AC, 60 Hz
AEP, UK	230 V AC, 50 Hz

Frequency response

PHONO	RIAA equalization curve ±0.5 dB
Analog	10 Hz – 70 kHz +0.5/–2 dB (Bass: 0 dB, Treble: 0 dB)

Inputs

PHONO	Sensitivity: 2.5 mV Impedance: 50 kohms S/N ²⁾ : 90 dB (A, 20 kHz LPF) ³⁾
Analog	Sensitivity: 150 mV/ 50 kohms S/N ²⁾ : 96 dB (A, 150 mV ³⁾)

Outputs (Analog)

AUDIO OUT	Voltage: 150 mV/10 kohms
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Equalizer

Gain levels ±10 dB, 1 dB step

²⁾INPUT SHORT (Bass: 0 dB, Treble: 0 dB).

³⁾Weighted network.

FM tuner section

Tuning range	87.5 - 108.0 MHz
Antenna (aerial)	FM wire antenna (aerial)
Antenna (aerial) terminals	75 ohms, unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Area code	Tuning scale	
	10 kHz step	9 kHz step
US, CND	530 – 1,710 kHz	531 – 1,710 kHz
AEP, UK	–	531 – 1,602 kHz

Antenna (aerial)	Loop antenna (aerial)
Intermediate frequency	450 kHz

– Continued on next page –

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Sony Corporation
Audio & Video Business Group
Published by Sony EMCS (Malaysia) PG Tec

FM STEREO / FM-AM RECEIVER

SONY®

STR-DA1500ES

Video section

Inputs/Outputs
Video: 1 Vp-p/75 ohms

General

Power requirements	
Area code	Power requirements
US, CND	120 V AC, 60 Hz
AEP, UK	230 V AC, 50/60 Hz

Power output (DIGITAL MEDIA PORT)
DC OUT: 5 V, 0.7 A MAX

Power consumption	
Area code	Power requirements
US, CND, AEP, UK	210W

Power consumption (during standby mode)
0.3 W (when “RS232C” is set to “OFF”)

Dimensions (w/h/d) (Approx.)
17 × 6 1/4 × 15 3/8 inches
(US, CND)
(430 × 157.5 × 388 mm)
including projecting parts and controls

Mass (Approx.)
19 lb 14 oz (9.0 kg) (US, CND)
9.2 kg (AEP, UK)

Supplied accessories

- Operating Instructions (this manual)
- Quick Setup Guide (1)
- FM wire antenna (aerial) (1)
- AM loop antenna (aerial) (1)
- RM-AAU056 Remote Commander (1)
- R6 (size-AA) batteries (2)
- AC power cord (mains lead) (1)

For details on the area code of the component you are using, see page 3 (for AEP, UK) and page 4 (for US, CND) see page 4.

Design and specifications are subject to change without notice.

Halogenated flame retardants are not used in the certain printed wiring boards.

- Abbreviation
CND : Canadian Model

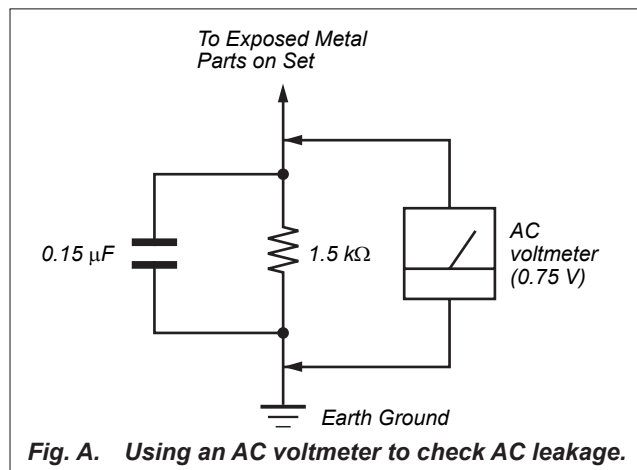
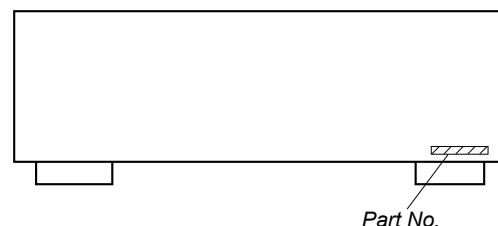
SAFETY CHECK-OUT (US MODEL)

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 microamperes.). 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)

**MODEL IDENTIFICATION****–BACK PANEL–**

Model	Part No.
US, Canadian	4-124-569-0□
AEP, UK	4-124-569-1□

Notes on chip component replacement

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

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350 °C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ 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 $\triangle$ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM- POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DON- NÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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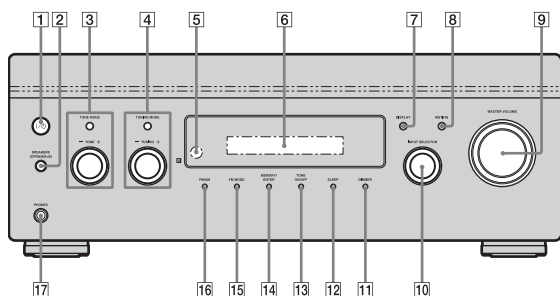
SECTION 1

GENERAL

This section is extracted from instruction manual.

Description and location of parts

Front panel



About the indicators on the display



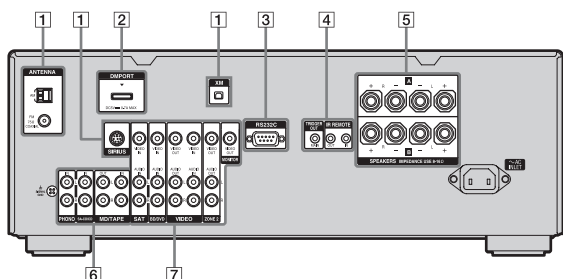
Name	Function
1 I/II (on/standby)	Press to turn the receiver on or off (page 20, 30).
2 SPEAKERS (OFF/A/B/A+B)	Switch to OFF, A, B, A+B of the front speakers (page 21).
3 TONE MODE TONE +/-	Adjust the bass and treble level of the speakers. Press TONE MODE repeatedly to select bass or treble, then turn TONE +/- to adjust the level (page 25).
4 TUNING MODE TUNING +/-	Press to operate a tuner (FM/AM) and satellite radio (XM/SIRIUS) (page 29, 36, 37).
5 Remote sensor	Receives signals from remote commander.
6 Display window	The current status of the selected component or a list of selectable items appears here (page 6).
7 DISPLAY	Press repeatedly to select information displayed on the display (page 46).
8 MUTING	Press to turn off the sound temporarily. Press MUTING again to restore the sound (page 23).
9 MASTER VOLUME	Turn to adjust the volume level of all speakers at the same time (page 22).
10 INPUT SELECTOR	Turn to select the input source to play back (page 22, 23, 46, 47, 48).
11 DIMMER	Press repeatedly to adjust the brightness of the display.
12 SLEEP	Press to activate the sleep timer function and the duration which the receiver turns off automatically (page 47).
13 TONE ON/OFF	Press to turn the bass and treble on or off.
14 MEMORY/ENTER	Press to store a station or enter the selection when selecting the settings (page 20, 31, 39).

Name	Function
15 FM MODE	Press to select the FM monaural or stereo reception (page 29).
16 FM/AM	Press to select FM or AM station.
17 PHONES jack	Connects to headphones (page 53).
18 SP A/SP B	Lights up according to the speaker system used (page 21). However, these indicators do not light up if the speaker output is turned off or if headphones are connected.
19 SLEEP	Lights up when the sleep timer is activated.
20 ZONE 2	Lights up when operation in zone 2 is being enabled.
21 Tuning indicators	Lights up when the receiver tunes in radio stations, or satellite radio stations.
CAT	Lights up when the category mode is set to "ONE CAT" during the satellite radio operation.
SAT	Lights up when the satellite radio is connected and "XM RADIO" or "SIRIUS" is selected.
MEMORY	Lights up when a memory function, such as Preset Memory (page 31), etc., is activated.
MONO ST	Monaural broadcast Stereo broadcast A preset station number appears when the preset radio station is selected. Note The preset station number will change accordingly to the preset station you select. For details on presetting radio station, see page 31.

6 US

7 US

Rear panel



1 ANTENNA section

	FM ANTENNA jack	Connects to the supplied FM wire antenna (aerial) (page 19).
	AM ANTENNA jack	Connects to the supplied AM loop antenna (aerial) (page 19).
	XM jack	Connects to the XM Mini-Tuner and Home Dock (not supplied) (page 34).
	SIRIUS jack	Connects to a SiriusConnect Home tuner (not supplied) (page 34).

2 DMPORT

	DMPORT jack	Connects to a DIGITAL MEDIA PORT adapter (page 45).
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3 RS232C port

		Used for maintenance and service.
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4 Control jacks for Sony equipment and other external components

	IR REMOTE IN/OUT jacks	Connect an IR repeater (page 48).
	TRIGGER OUT jack	Connects to an interlock on/off of the power supply of other 12V TRIGGER compliant components, or the amplifier/receiver of zone 2 (page 28).

5 SPEAKERS section

		Connects to the speakers (page 13).
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6 AUDIO INPUT/OUTPUT section

	White (L) AUDIO IN/OUT jacks	Connects to a tape deck or MD deck, etc. (page 14).
	Red (R) AUDIO IN/OUT jacks	

7 VIDEO/AUDIO INPUT/OUTPUT section

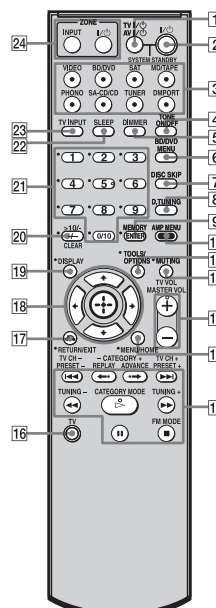
	White (L) AUDIO IN/OUT jacks	Connects to a VCR, DVD player, etc. (page 16-18).
	Red (R) AUDIO IN/OUT jacks	
	Yellow VIDEO IN/OUT* jacks	
	AUDIO OUT jacks	Connects to the component in zone 2 (page 49).
	VIDEO OUT jack	

* You can watch the selected input image when you connect the MONITOR OUT jack to a TV (page 16-18).

Remote commander

You can use the supplied RM-AAU056 Remote Commander to operate the receiver and to control the Sony audio/video components that the remote is assigned to operate (page 51).

RM-AAU056



continued 9 US

8 US

Name	Function
1 TV I/⏻ (on/standby)	Press TV I/⏻ and TV (16) at the same time to turn the TV on or off.
AV I/⏻ (on/standby)	Press to turn on or off the Sony audio/video components that the remote is assigned to operate (page 51). If you press I/⏻ (2) at the same time, it will turn off the receiver and other Sony components (SYSTEM STANDBY). Note The function of the AV I/⏻ switch changes automatically each time you press the input buttons (3).
2 I/⏻ (on/standby)	Press to turn the receiver on or off. If zone 2 is selected, only the main receiver is turned on or off with this button. To turn off all components including an amplifier in zone 2, press I/⏻ and AV I/⏻ (11) at the same time (SYSTEM STANDBY). Saving the power in standby mode. When "RS232C" (page 28) is set to "OFF".
3 Input buttons	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. You can change the button assignments following the steps in "Changing button assignments" on page 51.
4 TONE ON/OFF	Press to turn the bass and treble on or off.
5 DIMMER	Press repeatedly to adjust the brightness of the display.

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Name	Function
6 BD/DVD MENU	Press to display the menu of the DVD or Blu-ray disc on the TV screen. Then, use ♣, ♦, ♠, ♡ and ⊕ (18) to perform menu operations.
7 DISC SKIP	Press to skip a disc when using a multi-disc changer.
8 D.TUNING	Press to enter direct tuning mode.
9 ENTER	Press to enter the value after selecting a channel, disc or track using the numeric buttons of the TV, VCR, CD player, DVD player, DVD recorder or satellite tuner.
MEMORY	Press to store a station during tuner operation.
10 AMP MENU	Press to display the menu of the receiver. Then, use ♣, ♦, ♠, ♡ and ⊕ (18) to perform menu operations.
11 TOOLS/ OPTIONS	Press to display and select the options of the DVD player or Blu-ray disc player. Press TOOLS/OPTIONS and TV (16) at the same time to display the options applicable to the Sony TV.
12 MUTING	Press to turn off the sound temporarily. Press MUTING again to restore the sound. Press MUTING and TV (16) at the same time to activate the TV's muting function.
13 TV VOL +/–	Press TV VOL +/– and TV (16) at the same time to adjust the volume level of the TV.
MASTER VOL +/– ^{a)}	Press to adjust the volume level of all speakers at the same time.
14 MENU/HOME	Press to display the menu of the VCR, DVD player, satellite tuner or Blu-ray disc player on the TV screen. Press MENU/HOME and TV (16) at the same time to display the TV's menu. Then, use ♣, ♦, ♠, ♡ and ⊕ (18) to perform menu operations.

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

^{b)}This button is also available for DIGITAL MEDIA PORT adapter operation. For details on the function of the button, refer to the operating instructions supplied with the DIGITAL MEDIA PORT adapter.

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.

Name	Function
20 +/-	Press to select the channel entry mode, either one or two digit of the VCR, satellite tuner, etc. Press +/- and TV (16) at the same time to select the channel entry mode, either one or two digits of the TV.
>10/+	Press to select – track numbers over 10 of the VCR, satellite tuner, MD deck or CD player. – channel numbers of the Digital CATV terminal.
CLEAR	Press to clear a mistake when you press the incorrect numeric button.
21 Numeric buttons (number 5 ^{b)})	Press to – preset/tune to preset stations. – select track numbers of the CD player, DVD player, DVD recorder, MD deck 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 (16) at the same time to select the TV channels.
22 SLEEP	Press to activate the Sleep Timer function and the duration which the receiver turns off automatically.
23 TV INPUT	Press TV INPUT and TV (16) at the same time to select the input signal (TV input or video input).
24 ZONE I/⏻	Press ZONE I/⏻ to turn the zone 2 on or off.
ZONE INPUT	Press ZONE INPUT repeatedly to select the input source for zone 2.

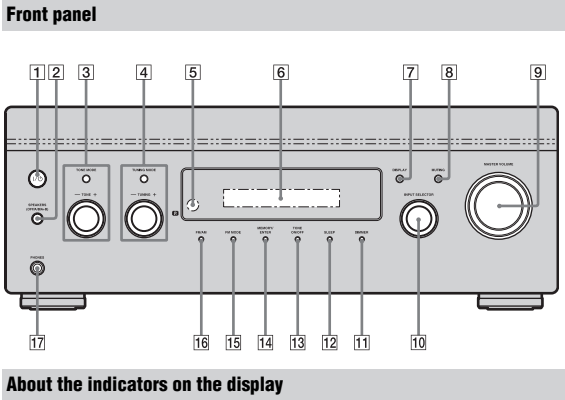
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Name	Function
15 ◀◀/▶▶ ^{b)}	Press to skip a track of the CD player, DVD player, DVD recorder, MD deck, tape deck or Blu-ray disc player.
REPLAY ◀-/ ADVANCE -▶	Press to replay the previous scene or fast forward the current scene of the VCR, DVD player or Blu-ray disc player.
◀◀/▶▶ ^{b)}	Press to – search tracks in the forward/ reverse direction of the DVD player. – start fast forward/rewind of the VCR, CD player, DVD recorder, MD deck, tape deck or Blu-ray disc player.
▷a/b)	Press to start playback of the VCR, CD player, DVD player, DVD recorder, MD deck or Blu-ray disc player.
II ^{b)}	Press to pause playback or recording of the VCR, CD player, DVD player, DVD recorder, MD deck, tape deck or Blu-ray disc player. (Also starts recording with components in recording standby.)
■ ^{b)}	Press to stop playback of the VCR, CD player, DVD player, DVD recorder, MD deck, tape deck or Blu-ray disc player.
TV CH +/-	Press TV CH +/- and TV (16) at the same time to select preset TV channels.
CATEGORY +/-	Press to select a category for satellite tuner (page 37).
PRESET +/-	Press to select – preset stations. – preset channels of the VCR or satellite tuner.
TUNING +/-	Press to scan a station.
CATEGORY MODE	Press to select the category mode for satellite tuner (page 37).
FM MODE	Press to select the FM monaural or stereo reception.

Name	Function
16 TV	Press TV and the button with orange printing at the same time to enable TV operation.
17 RETURN/ EXIT ↶	Press to – return to the previous menu. – exit the menu while the menu or on-screen guide of the DVD recorder, DVD player, satellite tuner or Blu-ray disc player is displayed on the TV screen. Press RETURN/EXIT ↶ and TV (16) 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.
18 ⊕ ♣/♦/♠/♡	After pressing BD/DVD MENU (6), AMP MENU (10), or MENU/HOME (14), press ♣, ♦, ♠ or ♡ to select the settings. Then, press ⊕ to enter the selection if you have pressed BD/DVD MENU or MENU/HOME previously. Press ⊕ also to enter the selection of the receiver, VCR, satellite tuner, CD player, DVD player, DVD recorder or Blu-ray disc player.
19 DISPLAY	Press to select information displayed on the TV screen of the VCR, satellite tuner, CD player, DVD player, DVD recorder, MD deck or Blu-ray disc player. Press DISPLAY and TV (16) at the same time to display TV's information on the TV screen.

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Description and location of parts



About the indicators on the display

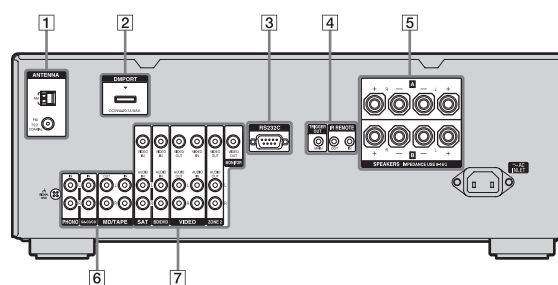


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Name	Function
1 I/⏻ (on/standby)	Press to turn the receiver on or off (page 19).
2 SPEAKERS (OFF/A/B/A+B)	Switch to OFF, A, B, A+B of the front speakers (page 20).
3 TONE MODE TONE +/-	Adjust the bass and treble level of the speakers. Press TONE MODE repeatedly to select bass or treble, then turn TONE +/- to adjust the level (page 24).
4 TUNING MODE TUNING +/-	Press to operate a tuner (FM/AM) (page 28).
5 Remote sensor	Receives signals from remote commander.
6 Display window	The current status of the selected component or a list of selectable items appears here (page 5).
7 DISPLAY	Press repeatedly to select information displayed on the display (page 35).
8 MUTING	Press to turn off the sound temporarily. Press MUTING again to restore the sound (page 21).
9 MASTER VOLUME	Turn to adjust the volume level of all speakers at the same time (page 21).
10 INPUT SELECTOR	Turn to select the input source to play back (page 21, 22, 35, 36, 37).
11 DIMMER	Press repeatedly to adjust the brightness of the display.
12 SLEEP	Press to activate the sleep timer function and the duration which the receiver turns off automatically (page 36).
13 TONE ON/OFF	Press to turn the bass and treble on or off.
14 MEMORY/ENTER	Press to store a station or enter the selection when selecting the settings (page 19, 29).

Name	Function
15 FM MODE	Press to select the FM monoaural or stereo reception (page 28).
16 FM/AM	Press to select FM or AM station.
17 PHONES jack	Connects to headphones (page 42).
18 SP A/SP B	Lights up according to the speaker system used (page 20). However, these indicators do not light up if the speaker output is turned off or if headphones are connected.
19 SLEEP	Lights up when the sleep timer is activated.
20 ZONE 2	Lights up when operation in zone 2 is being enabled.
21 Tuning indicators	Lights up when the receiver tunes in radio stations.
MEMORY	Lights up when a memory function, such as Preset Memory (page 29), etc., is activated.
RDS	Lights up when a station that provides RDS services is tuned in. Note "RDS" appears for models of area code CEL, CEK only. Monoaural broadcast
MONO ST	Stereo broadcast A preset station number appears when the preset radio station is selected. Note The preset station number will change accordingly to the preset station you select. For details on presetting radio station, see page 29.

Rear panel



1 ANTENNA section	FM ANTENNA jack Connects to the supplied FM wire antenna (aerial) (page 18). AM ANTENNA jack Connects to the supplied AM loop antenna (aerial) (page 18).
2 DMPORT	DMPORT jack Connects to a DIGITAL MEDIA PORT adapter (page 34).
3 RS232C port	Used for maintenance and service.
4 Control jacks for Sony equipment and other external components	IR REMOTE IN/OUT jacks Connect an IR repeater (page 37). TRIGGER OUT jack Connects to an interlock on/off of the power supply of other 12V TRIGGER compliant components, or the amplifier/receiver of zone 2 (page 26).
5 SPEAKERS section	Connects to the speakers (page 12).
6 AUDIO INPUT/OUTPUT section	AUDIO IN/OUT jacks Connects to a tape deck or MD deck, etc. (page 13). White (L) Red (R)

continued 7^{GS}

7 VIDEO/AUDIO INPUT/OUTPUT section

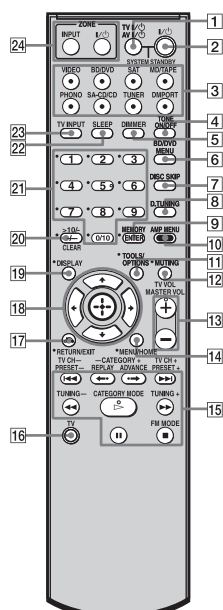
White (L)	AUDIO IN/OUT jacks	Connects to a VCR, DVD player, etc. (page 15-17).
Red (R)		
Yellow	VIDEO IN/OUT* jacks	
	AUDIO OUT jacks	Connects to the component in zone 2 (page 38).
	VIDEO OUT jack	

* You can watch the selected input image when you connect the MONITOR OUT jack to a TV (page 15-17).

Remote commander

You can use the supplied RM-AAU056 Remote Commander to operate the receiver and to control the Sony audio/video components that the remote is assigned to operate (page 40).

RM-AAU056



Name	Function
1 TV I/⏻ (on/standby)	Press TV I/⏻ and TV (16) at the same time to turn the TV on or off.
AV I/⏻ (on/standby)	Press to turn on or off the Sony audio/video components that the remote is assigned to operate (page 40). If you press I/⏻ (2) at the same time, it will turn off the receiver and other Sony components (SYSTEM STANDBY). Note The function of the AV I/⏻ switch changes automatically each time you press the input buttons (3).
2 I/⏻ (on/standby)	Press to turn the receiver on or off. If zone 2 is selected, only the main receiver is turned on or off with this button. To turn off all components including an amplifier in zone 2, press I/⏻ and AV I/⏻ (1) at the same time (SYSTEM STANDBY). Saving the power in standby mode. When "RS232C" (page 27) is set to "OFF".
3 Input buttons	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. You can change the button assignments following the steps in "Changing button assignments" on page 40.
4 TONE ON/OFF	Press to turn the bass and treble on or off.
5 DIMMER	Press repeatedly to adjust the brightness of the display.
6 BD/DVD MENU	Press to display the menu of the DVD or Blu-ray disc on the TV screen. Then, use ⬆, ⬇, ⬆, ⬇ and Ⓢ (18) to perform menu operations.

Name	Function
7 DISC SKIP	Press to skip a disc when using a multi-disc changer.
8 D.TUNING	Press to enter direct tuning mode.
9 ENTER	Press to enter the value after selecting a channel, disc or track using the numeric buttons of the TV, VCR, CD player, DVD player, DVD recorder or satellite tuner.
MEMORY	Press to store a station during tuner operation.
10 AMP MENU	Press to display the menu of the receiver. Then, use ⬆, ⬇, ⬆, ⬇ and Ⓢ (18) to perform menu operations.
11 TOOLS/OPTIONS	Press to display and select the options of the DVD player or Blu-ray disc player. Press TOOLS/OPTIONS and TV (16) at the same time to display the options applicable to the Sony TV.
12 MUTING	Press to turn off the sound temporarily. Press MUTING again to restore the sound. Press MUTING and TV (16) at the same time to activate the TV's muting function.
13 TV VOL +/-	Press TV VOL +/- and TV (16) at the same time to adjust the volume level of the TV.
MASTER VOL +/-	Press to adjust the volume level of all speakers at the same time.
14 MENU/HOME	Press to display the menu of the VCR, DVD player, satellite tuner or Blu-ray disc player on the TV screen. Press MENU/HOME and TV (16) at the same time to display the TV's menu. Then, use ⬆, ⬇, ⬆, ⬇ and Ⓢ (18) to perform menu operations.

continued 9^{GS}

Name	Function
15	Press to skip a track of the CD player, DVD player, DVD recorder, MD deck, tape deck or Blu-ray disc player.
REPLAY ADVANCE	Press to replay the previous scene or fast forward the current scene of the VCR, DVD player or Blu-ray disc player.
	Press to – search tracks in the forward/reverse direction of the DVD player. – start fast forward/rewind of the VCR, CD player, DVD recorder, MD deck, tape deck or Blu-ray disc player.
	Press to start playback of the VCR, CD player, DVD player, DVD recorder, MD deck or Blu-ray disc player.
	Press to pause playback or recording of the VCR, CD player, DVD player, DVD recorder, MD deck, tape deck or Blu-ray disc player. (Also starts recording with components in recording standby.)
	Press to stop playback of the VCR, CD player, DVD player, DVD recorder, MD deck, tape deck or Blu-ray disc player.
TV CH +/-	Press TV CH +/- and TV (16) at the same time to select preset TV channels.
PRESET +/-	Press to select – preset stations. – preset channels of the VCR or satellite tuner.
TUNING +/-	Press to scan a station.
FM MODE	Press to select the FM monaural or stereo reception.
16 TV	Press TV and the button with orange printing at the same time to enable TV operation.

10GB

Name	Function
17 RETURN/EXIT	Press to – return to the previous menu. – exit the menu while the menu or on-screen guide of the DVD recorder, DVD player, satellite tuner or Blu-ray disc player is displayed on the TV screen. Press RETURN/EXIT and TV (16) 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.
18	After pressing BD/DVD MENU (16), AMP MENU (10), or MENU/HOME (14), press , , , or to select the settings. Then, press to enter the selection if you have pressed BD/DVD MENU or MENU/HOME previously. Press also to enter the selection of the receiver, VCR, satellite tuner, CD player, DVD player, DVD recorder or Blu-ray disc player.
19 DISPLAY	Press to select information displayed on the TV screen of the VCR, satellite tuner, CD player, DVD player, DVD recorder, MD deck or Blu-ray disc player. Press DISPLAY and TV (16) at the same time to display TV's information on the TV screen.
20 -/-	Press to select the channel entry mode, either one or two digit of the VCR, satellite tuner, etc. Press -/- and TV (16) at the same time to select the channel entry mode, either one or two digits of the TV.
>10	Press to select – track numbers over 10 of the VCR, satellite tuner, MD deck or CD player. – channel numbers of the Digital CATV terminal.
CLEAR	Press to clear a mistake when you press the incorrect numeric button.

Name	Function
21 Numeric buttons (number 5^a)	Press to – preset/tune to preset stations. – select track numbers of the CD player, DVD player, DVD recorder, MD deck 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 (16) at the same time to select the TV channels.
22 SLEEP	Press to activate the Sleep Timer function and the duration which the receiver turns off automatically.
23 TV INPUT	Press TV INPUT and TV (16) at the same time to select the input signal (TV input or video input).
24 ZONE I/II	Press ZONE I/II to turn the zone 2 on or off.
ZONE INPUT	Press ZONE INPUT repeatedly to select the input source for zone 2.

^{a)}The number 5, MASTER VOL +, TV VOL +, and buttons have tactile dots. Use the tactile dots as references when operating the receiver.
^{b)}This button is also available for DIGITAL MEDIA PORT adapter operation. For details on the function of the button, refer to the operating instructions supplied with the DIGITAL MEDIA PORT adapter.

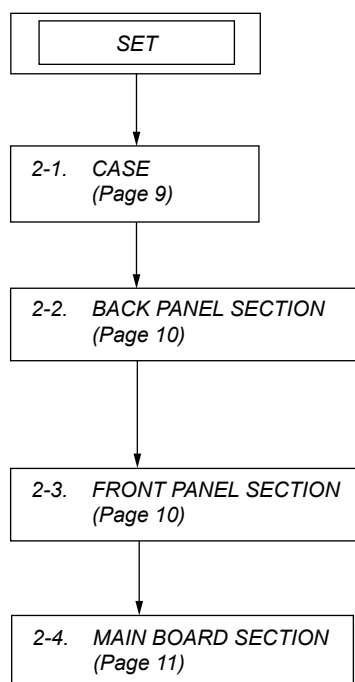
Notes

- 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 CATEGORY +/- and CATEGORY MODE buttons are not applicable for models of area code CEL and CEK.

11GB

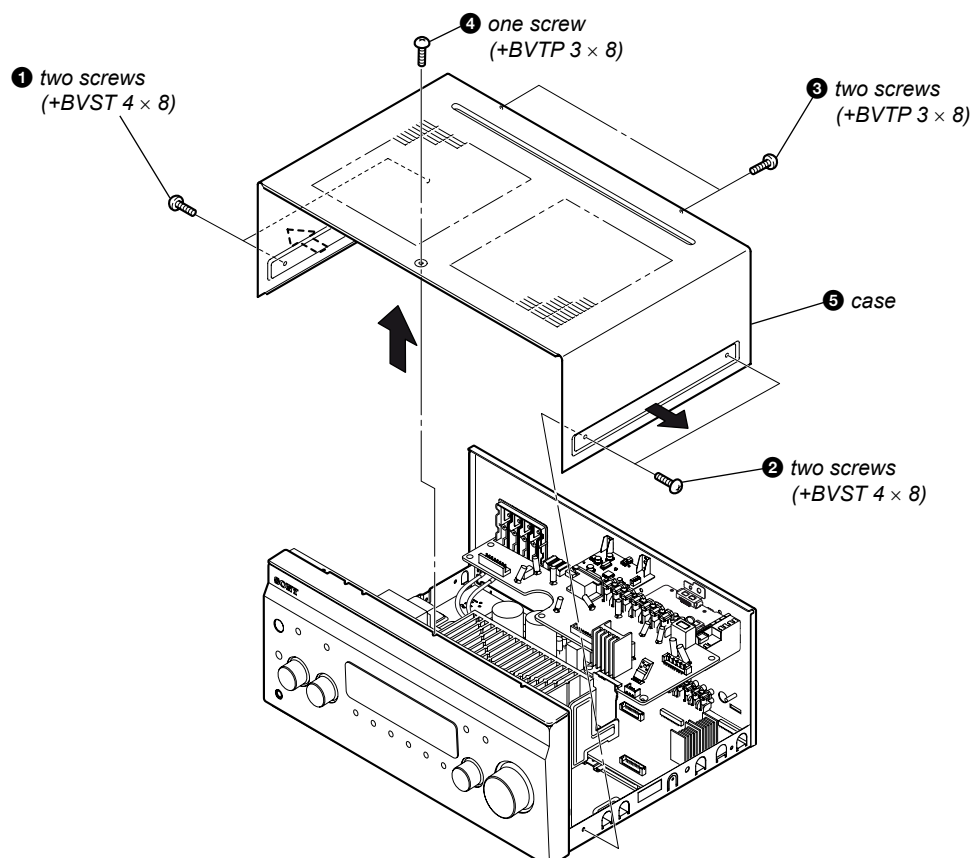
SECTION 2 DISASSEMBLY

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

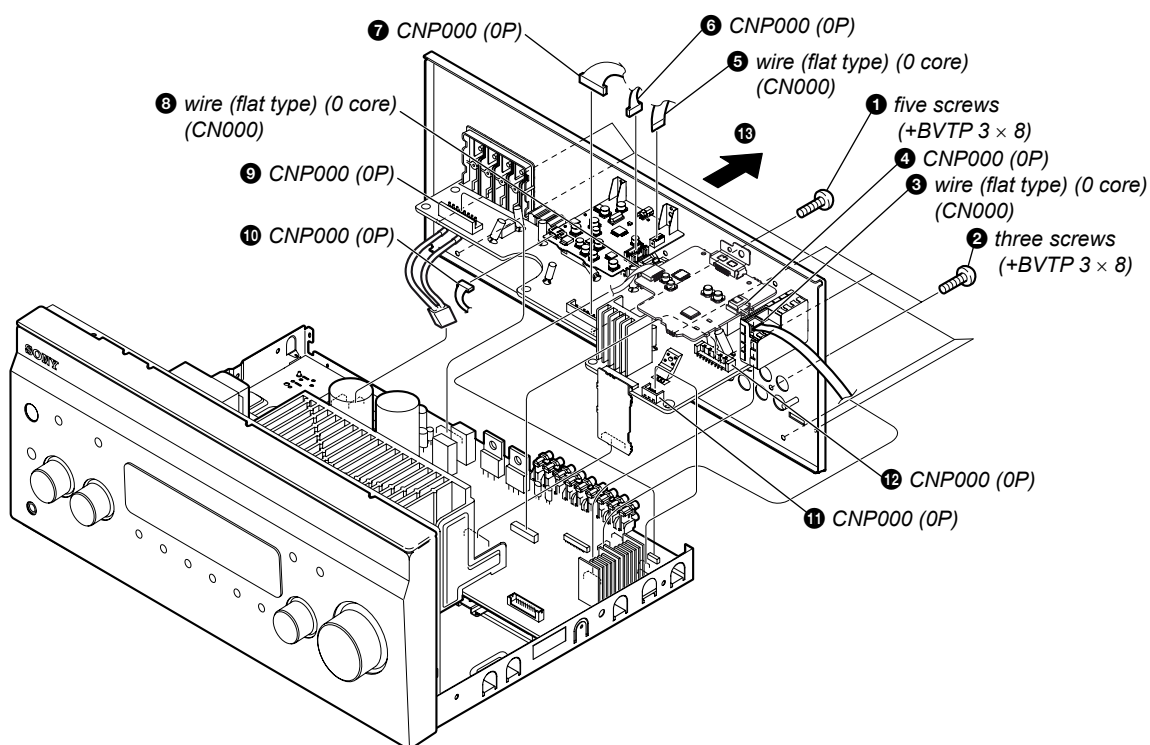


Note: Follow the disassembly procedure in the numerical order given.

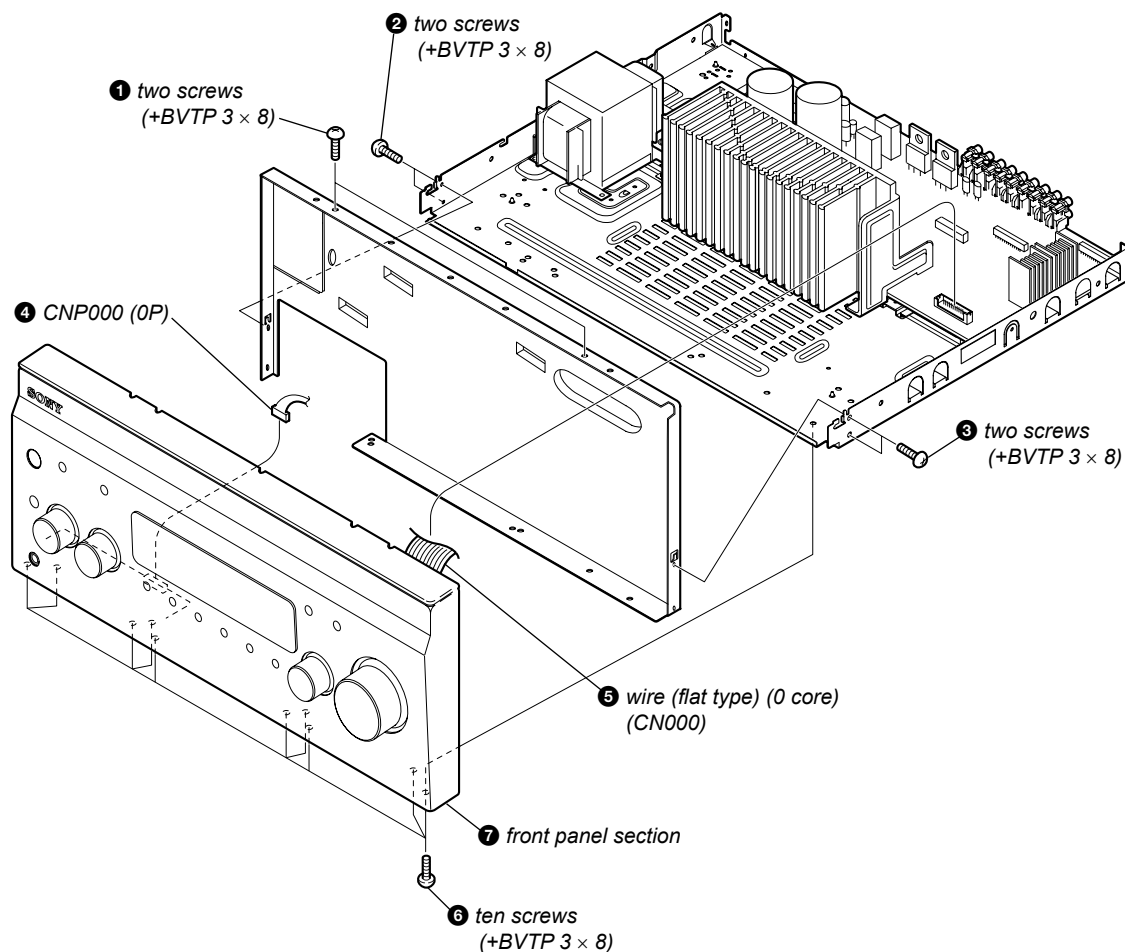
2-1. CASE



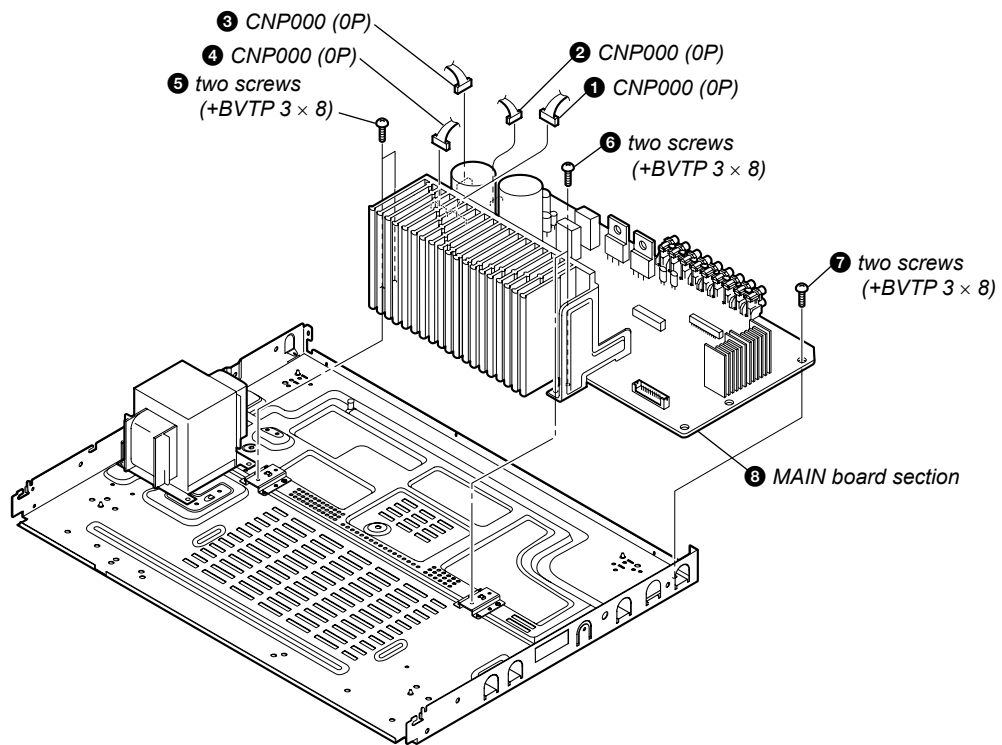
2-2. BACK PANEL SECTION



2-3. FRONT PANEL SECTION



2-4. MAIN BOARD SECTION



SECTION 3 TEST MODE

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

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

* Procedure:

1. While depressing the [FM/AM] button, press the [I/⏻] button to turn on the main power.
2. Either the message “9K STEP” or “10K STEP” appears for a moment and select the desired step.

VACUUM FLUORESCENT DISPLAY TEST MODE

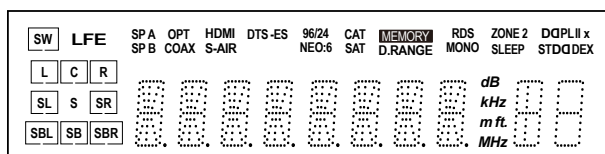
* All fluorescent segments are tested.

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

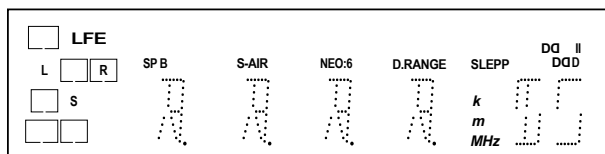
* Procedure:

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

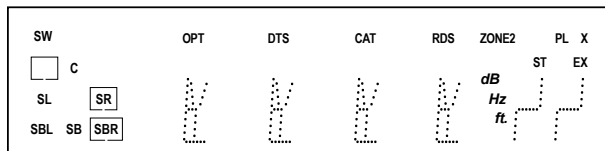
1. ALL segments light on.



2. Press the [DISPLAY] button, confirm display.



3. Press the [DISPLAY] button, confirm display.



4. Press the [DISPLAY] button, all segments light off.

SOFTWARE VERSION DISPLAY MODE

* The software version is displayed.

* Procedure:

1. While depressing the [FM MODE] and the [SLEEP] buttons simultaneously, press the [I/⏻] button to turn on the main power.
2. The model name, destination and the software version are displayed for a moment.

KEY CHECK MODE

* Button check

* Procedure:

1. While depressing the [FM/AM] and the [MUTING] buttons simultaneously, press the [I/⏻] button to turn on the main power.
2. Either the message “REST 11” appears.
3. 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.

SHIPMENT MODE

All preset contents are reset to the default setting.

* Procedure:

1. While depressing the [FM/AM] and the [SLEEP] buttons simultaneously, press the power [I/⏻] button to turn on the main power.
2. “CLEARING” appears for a while, “CLEARED” appears and switch off the set.

HISTORY MODE

The state that the set is used is memorized.

* Procedure:

1. While pressing the [MEMORY/ENTER] and [DIMMER] buttons, press the power [I/⏻] button to turn on the power and “HISTORY” is displayed.
2. Each time the [↑]/[↓] buttons on the remote commander is pressed, the item is switched in order as follows.

Item	Display
History	HISTORY
Count has many time protector happen	COUNT xx
Total single power on time	SxxxHxxM
Input function	FUNCTION
HP ON/OFF	HP xxx
Volume	VOLxxxxx
Bass	BASS xxx
Treble	TREB xxx
Level information	Fx xxx
Total power on time	TxxxHxxM
Muting	MUTE xxx
Power on counter (Rebox test mode)	RB xxxxx
Return to history	HISTORY

PROTECTOR AUTO OFF

* Procedure:

1. While pressing the [TONE ON/OFF] and [SPEAKERS (OFF/A/B/A+B)] buttons, press the power [I/⏻] button to turn on the main power.
2. “PROTECT” appears and switch off the set.

XM FACTORY TEST MODE

* Mode to confirm operation of XM. Doing display of ID of XM antenna and output of audio signal that XM antenna generates, it is confirmed that there are no problems in the communication of the XM antenna and the transmission of the audio signal.

* Procedure:

1. The XM antenna was connected, while pressing the [FM-MODE] and [DIMMER] buttons, press the [I/⏻] button to turn on the main power.
2. Whenever the [DISPLAY] button is pressed, the output of the audio signal of 1kHz L/R, 20 Hz L/R, 5kHz L/R, muting, 1 kHz L and 1kHz R are switched.

STR-DA1500ES

SECTION 4

FM TUNER CHECK

SIRIUS FACTORY TEST MODE

* Mode to confirm operation of SIRIUS. Doing display of ID of SIRIUS antenna and output of audio signal that SIRIUS antenna generates, it is confirmed that there are no problems in the communication of the SIRIUS antenna and the transmission of the audio signal.

* Procedure:

1. The SIRIUS antenna was connected, while pressing the [FM MODE] and [DISPLAY] buttons, press the [I/⏻] button to turn on the main power.
2. Whenever the [DISPLAY] button is pressed, the output of the audio signal of 1 kHz L/R, 20 Hz L/R, 10 kHz L/R, noise L, noise R and stop tone are switched.

INITIALIZE MODE

* All preset contents are cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

* Procedure:

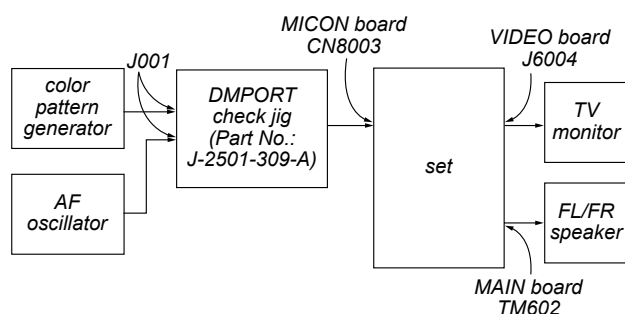
1. While pressing the [SPEAKER A/B/A+B] and [SLEEP] buttons press the [I/⏻] button to turn on the main power.
2. The message "CLEARING" appears and the memories are reset to the default values.
3. When done, the message "CLEARED" appears.

DMPORT MODE

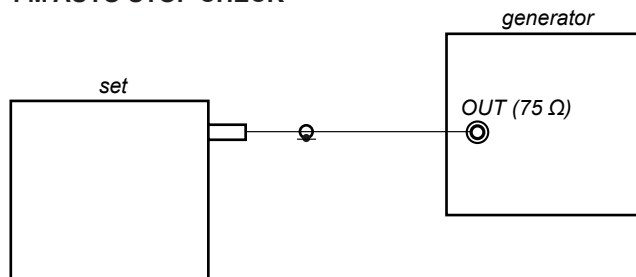
* All preset contents are cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

* Procedure:

1. Connect the DMPORT check jig (P/N: J-2501-309-A) with the DMPORT Jack (CN8003) on the MICON board.
2. While pressing the [MEMORY/ENTER] and [TONE ON/OFF] buttons, press the [I/⏻] button to turn on the main power.
3. The message "DMPORT T." and "DMPORT OK" appears on the fluorescent indicator tube and enter the digital media port test mode. (Confirmation of communication line). When "NO DETECT", "UART NG" and "UART TO" are displayed on the fluorescent indicator tube, confirm the connection of the DMPORT check jig, and enter the mode again. Each time the [▶▶▶] button on the remote commander is pressed, the connect check and adaptor version check are switched. Press the [◀◀◀] button on the remote commander, connected confirmation of the DMPORT check jig is done again.
4. To a pinjack of the DMPORT check jig input information relevant to audio signal (sine-wave 1.0V rms) and composite video signal (white 100% 1.0Vp-p, color bar, etc).
5. Confirm the output of speakers and monitor TV. (Confirmation of analog signal).
6. To release from this mode, press the [■] button on the remote commander.



FM AUTO STOP CHECK



Procedure:

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.

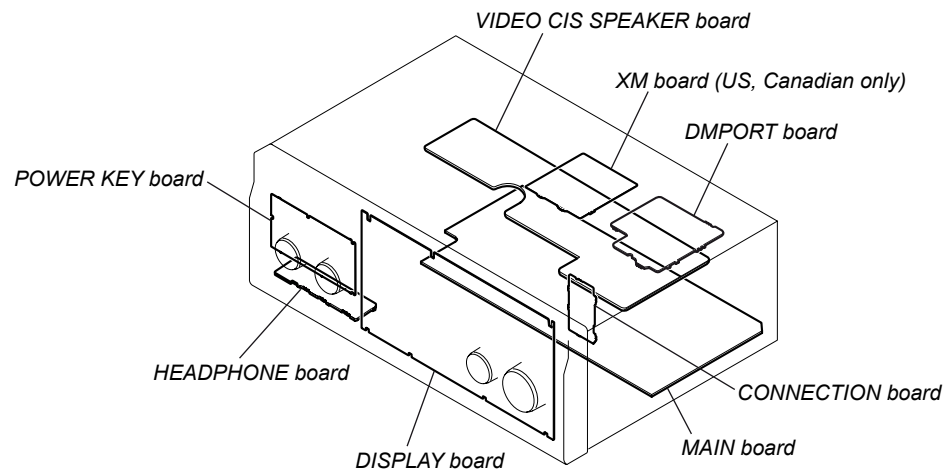
Please use SG whose output impedance is 75 ohm.

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.

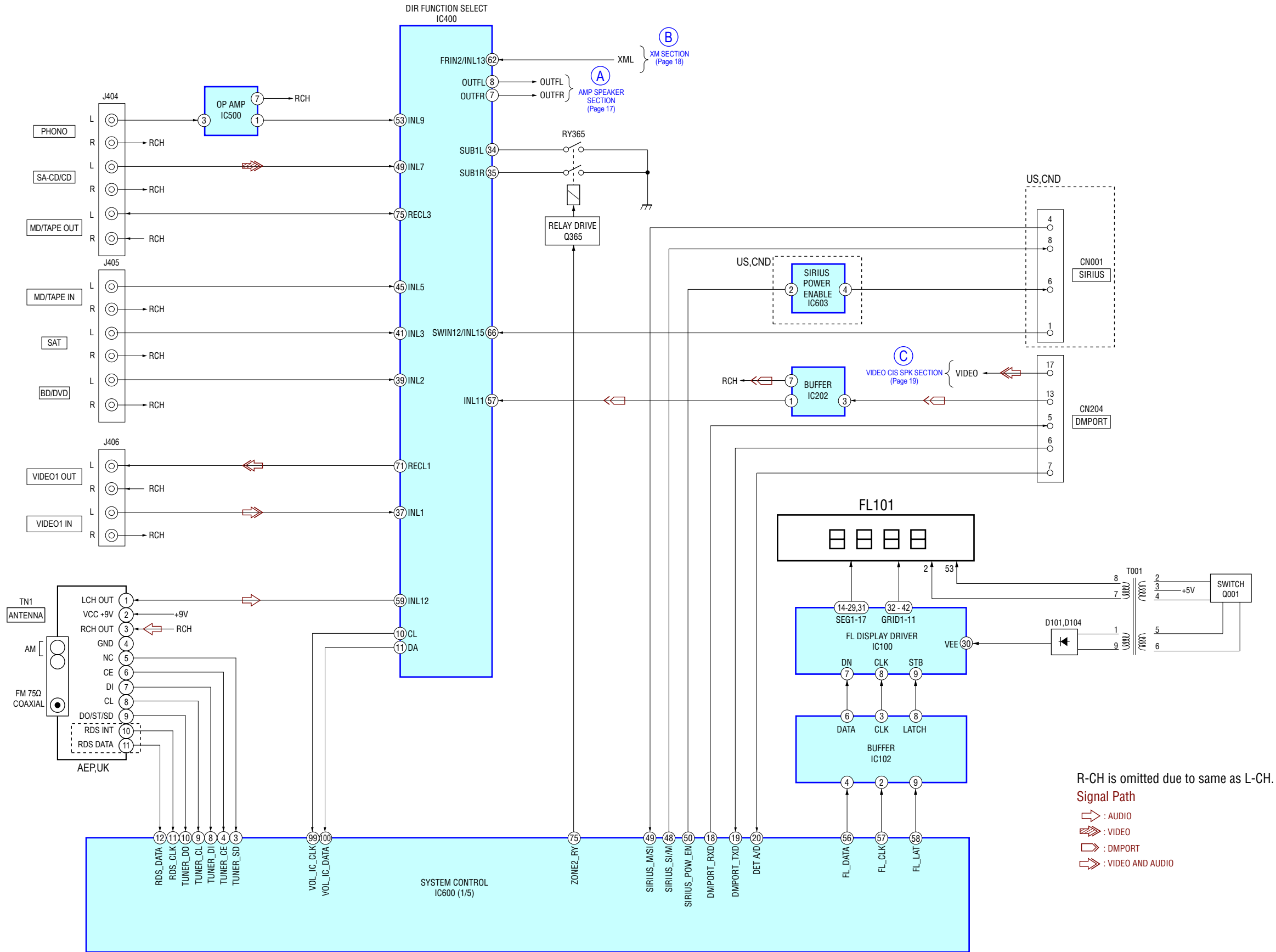
The stop of automatic scanning means "The station signal is received in good condition."

SECTION 5 DIAGRAMS

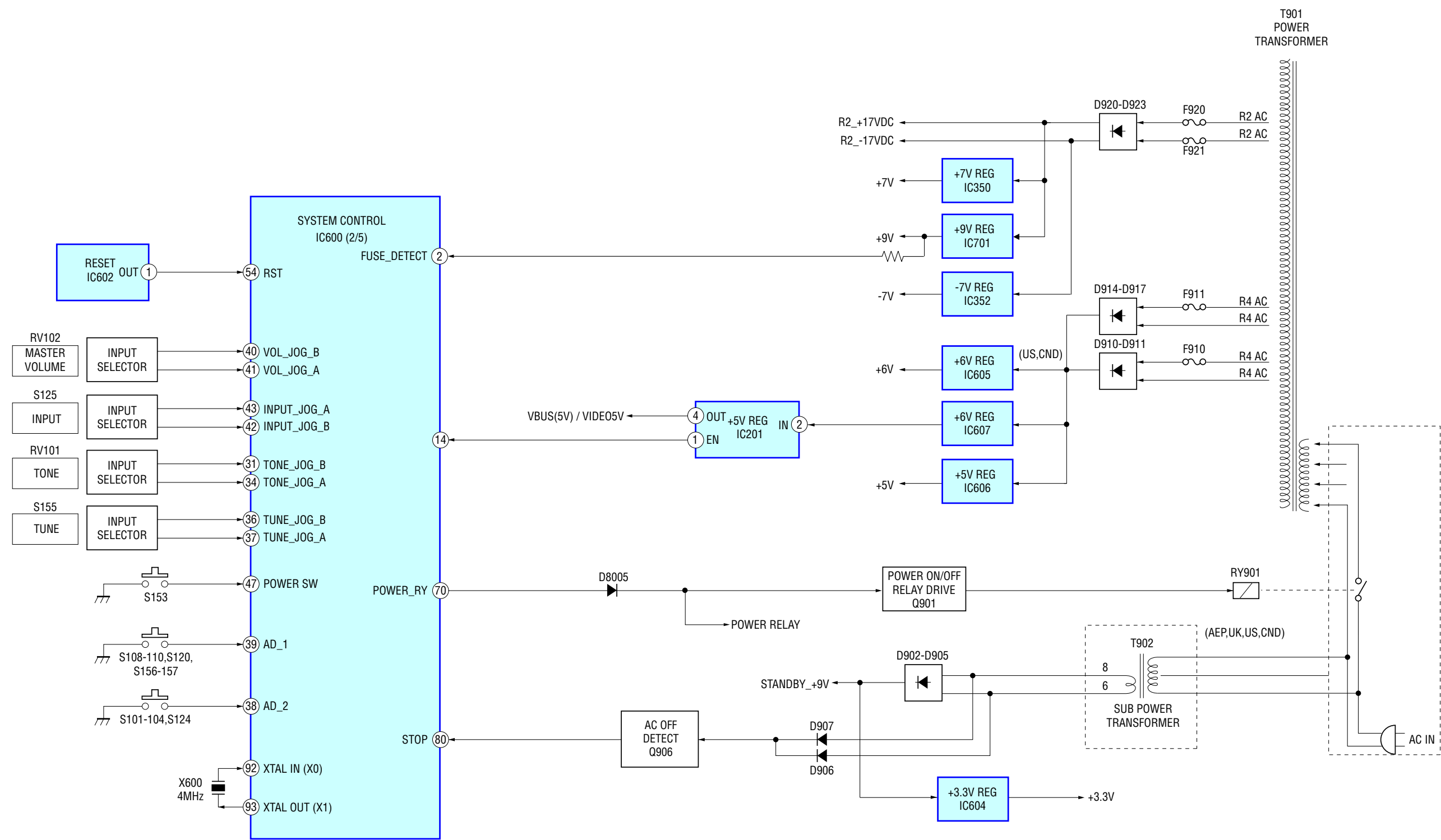
• Circuit Boards Location



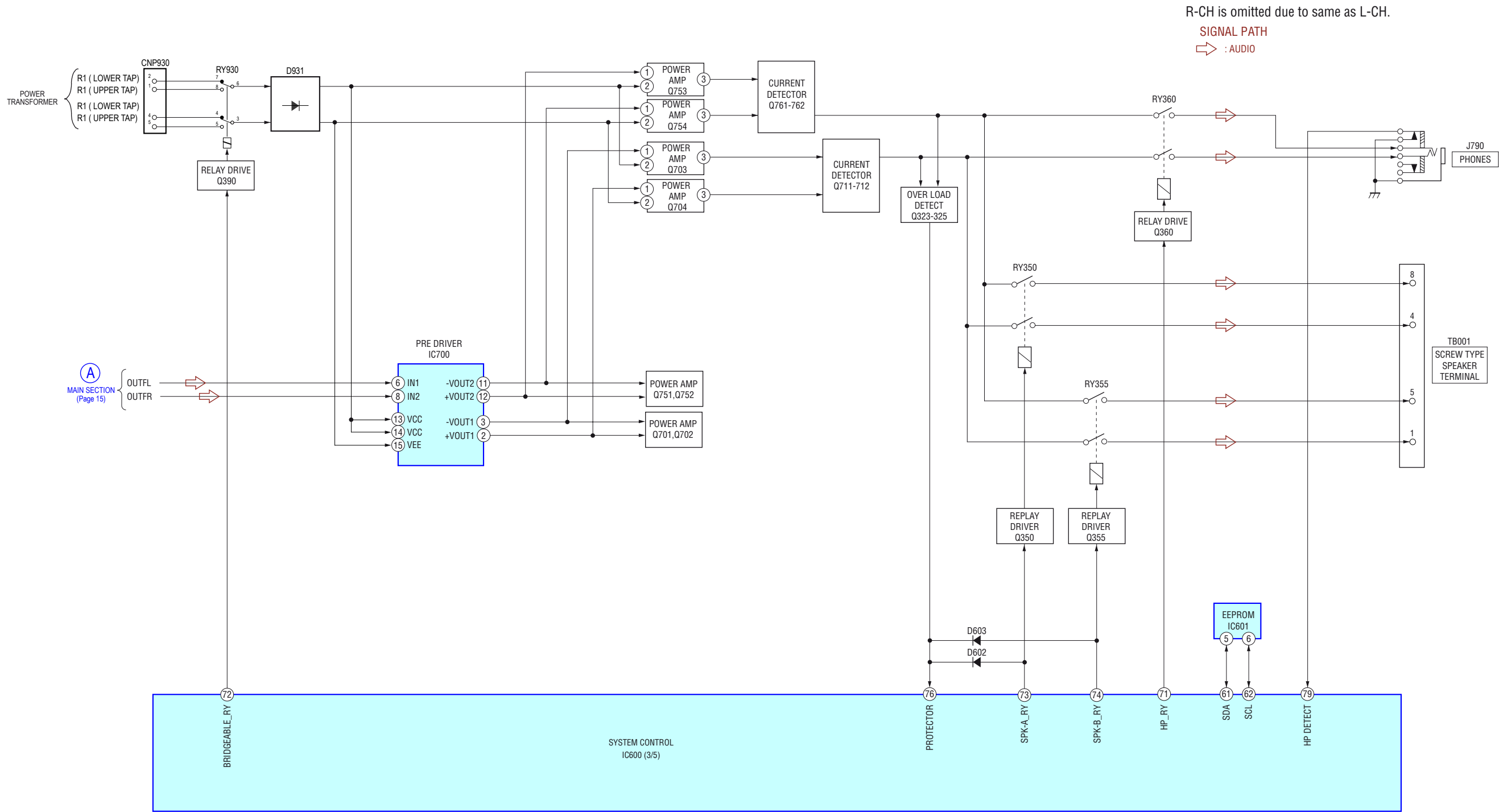
5-1. BLOCK DIAGRAM — MAIN SECTION —



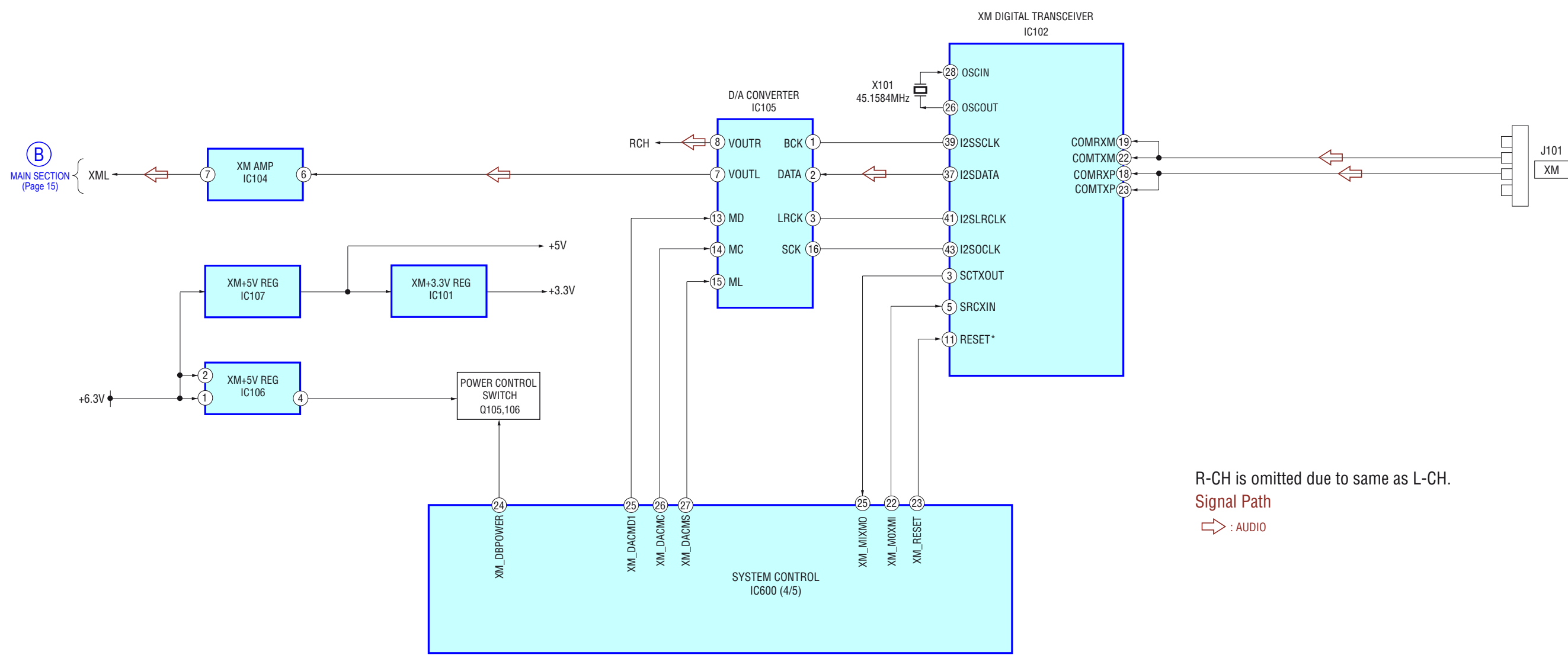
5-2. BLOCK DIAGRAM — DISPLAY/POWER SECTION —



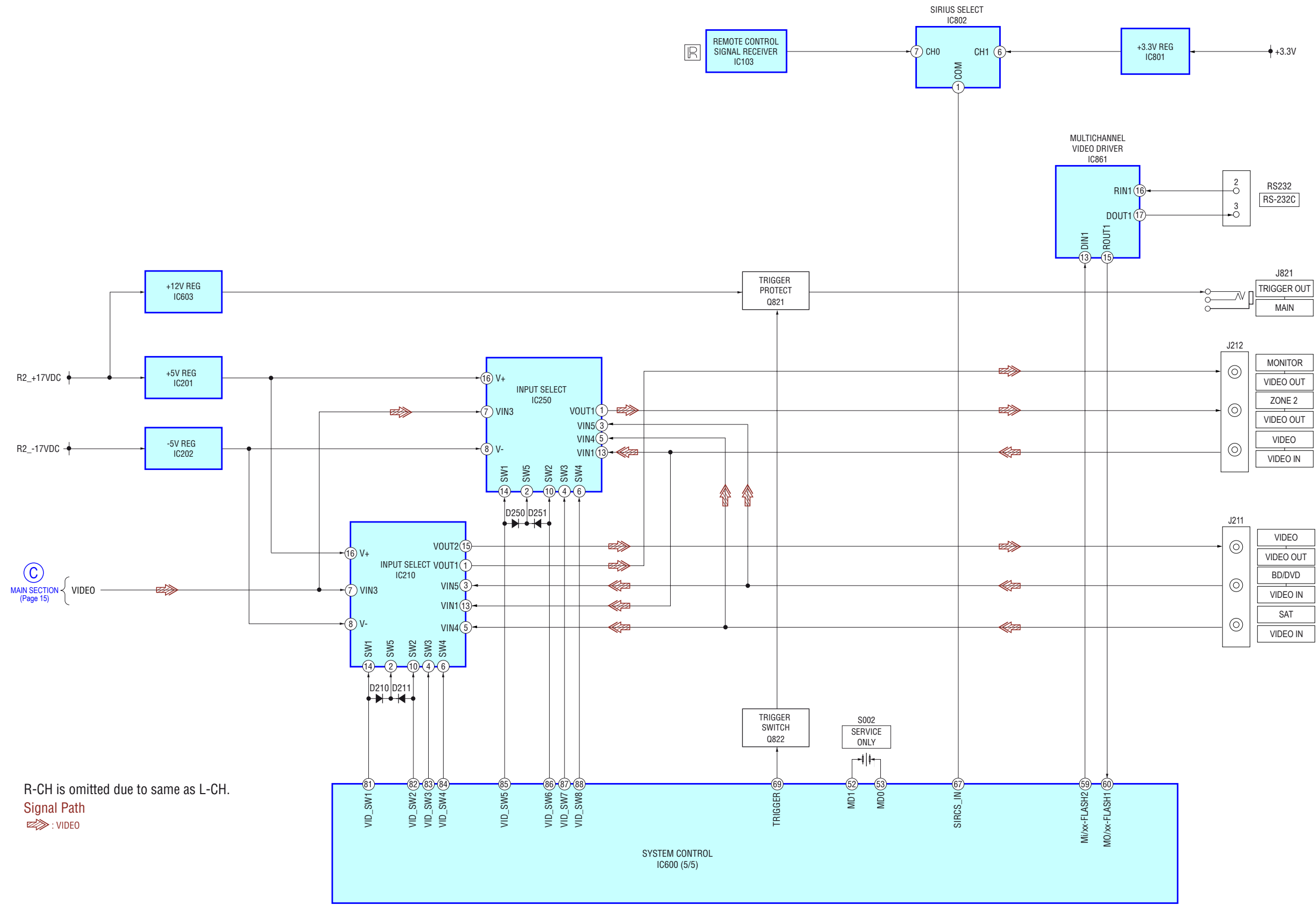
5-3. BLOCK DIAGRAM — AMP SPEAKER SECTION —



5-4. BLOCK DIAGRAM — XM SECTION —



5-5. BLOCK DIAGRAM — VIDEO CIS SPK 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 Printed Wiring Boards.

Note:

- — : Parts extracted from the component side.
- △ : internal component.
- : Pattern from the side which enables seeing.

Caution:

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

- Abbreviation
CND : Canadian model

For Schematic Diagrams.

Note:

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

Note:

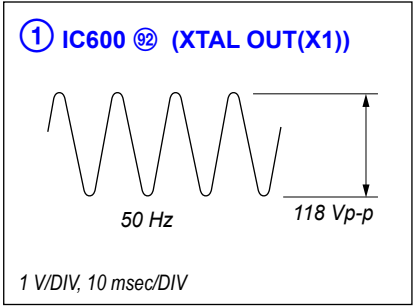
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note:

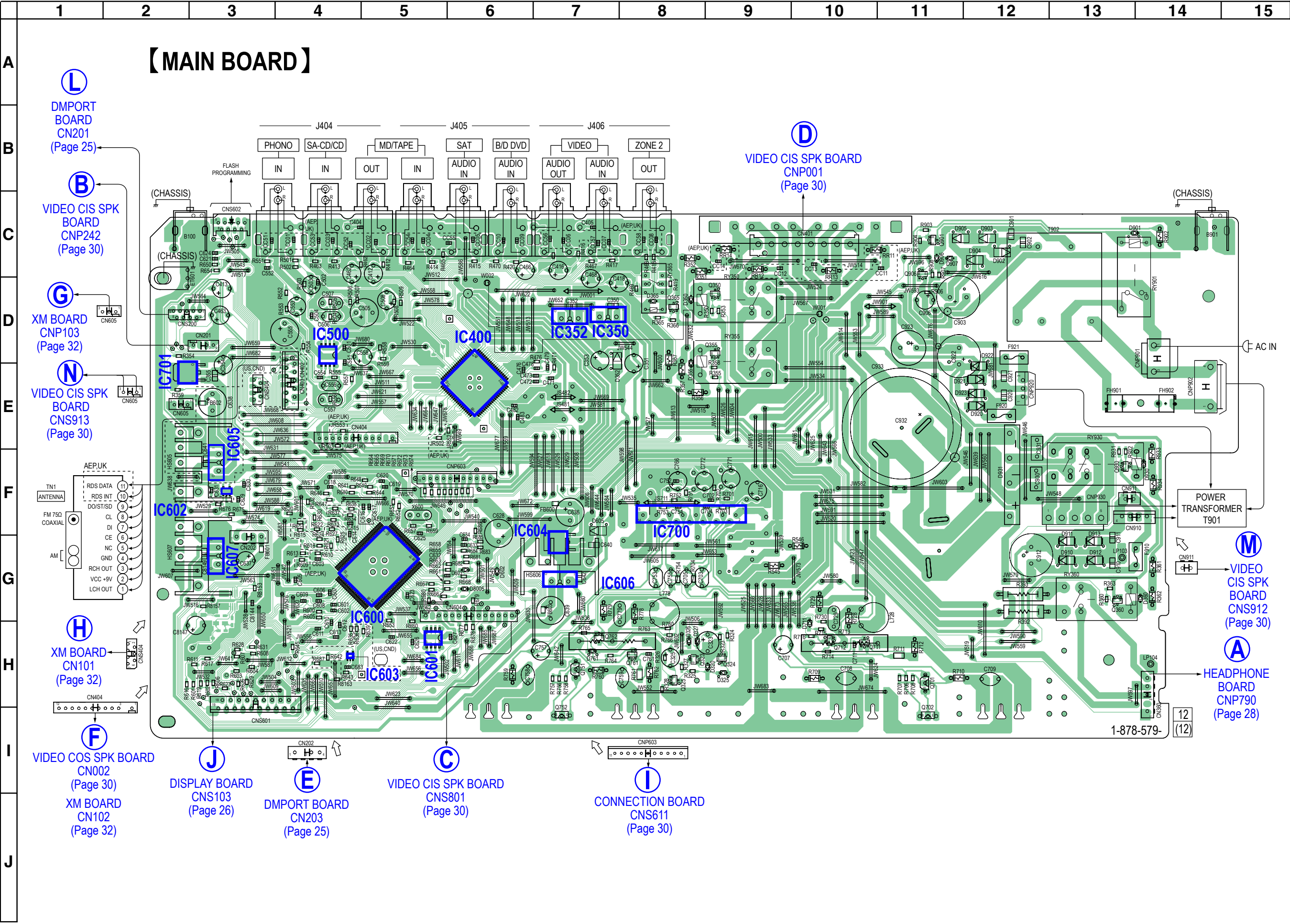
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- : B+ Line.
- - - : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark: FM
- Voltages are taken with VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a 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

- Waveforms
- MAIN Board –



5-6. PRINTED WIRING BOARD — MAIN BOARD — • See page 14 for Circuit Boards Location. : Uses unleaded solder.

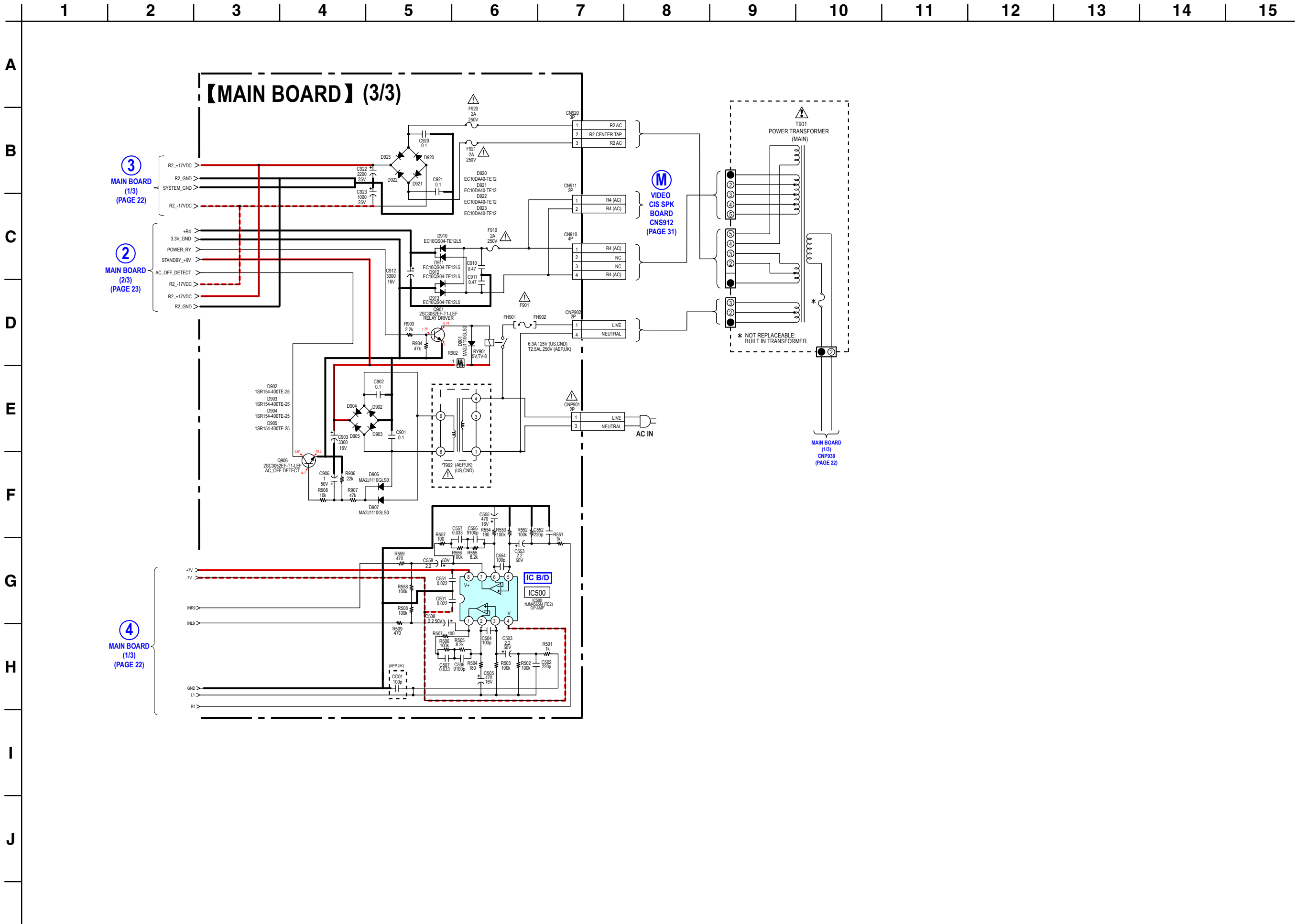


• See page 15 for Block Diagram • Refer to page 34 IC Block Diagrams.

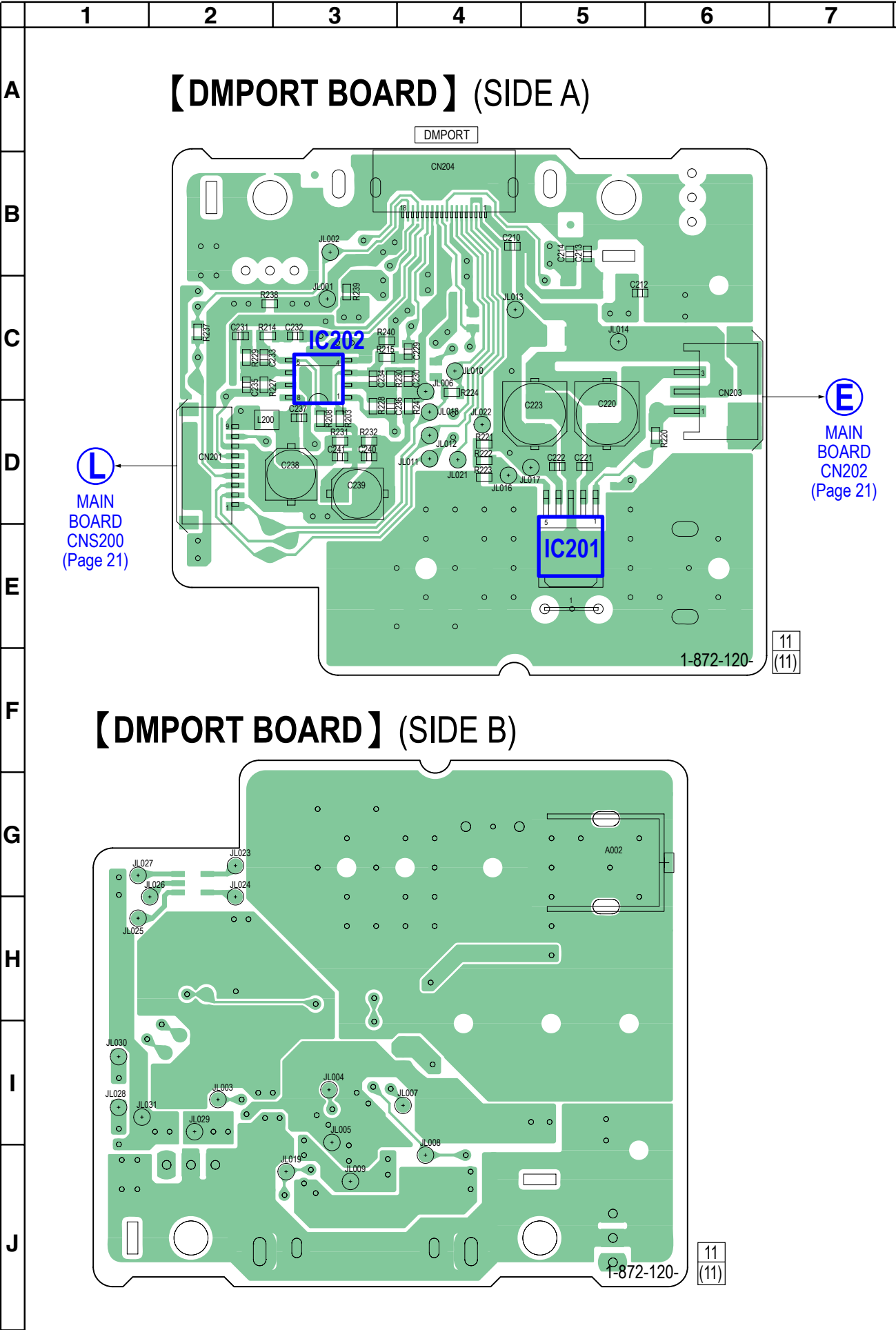




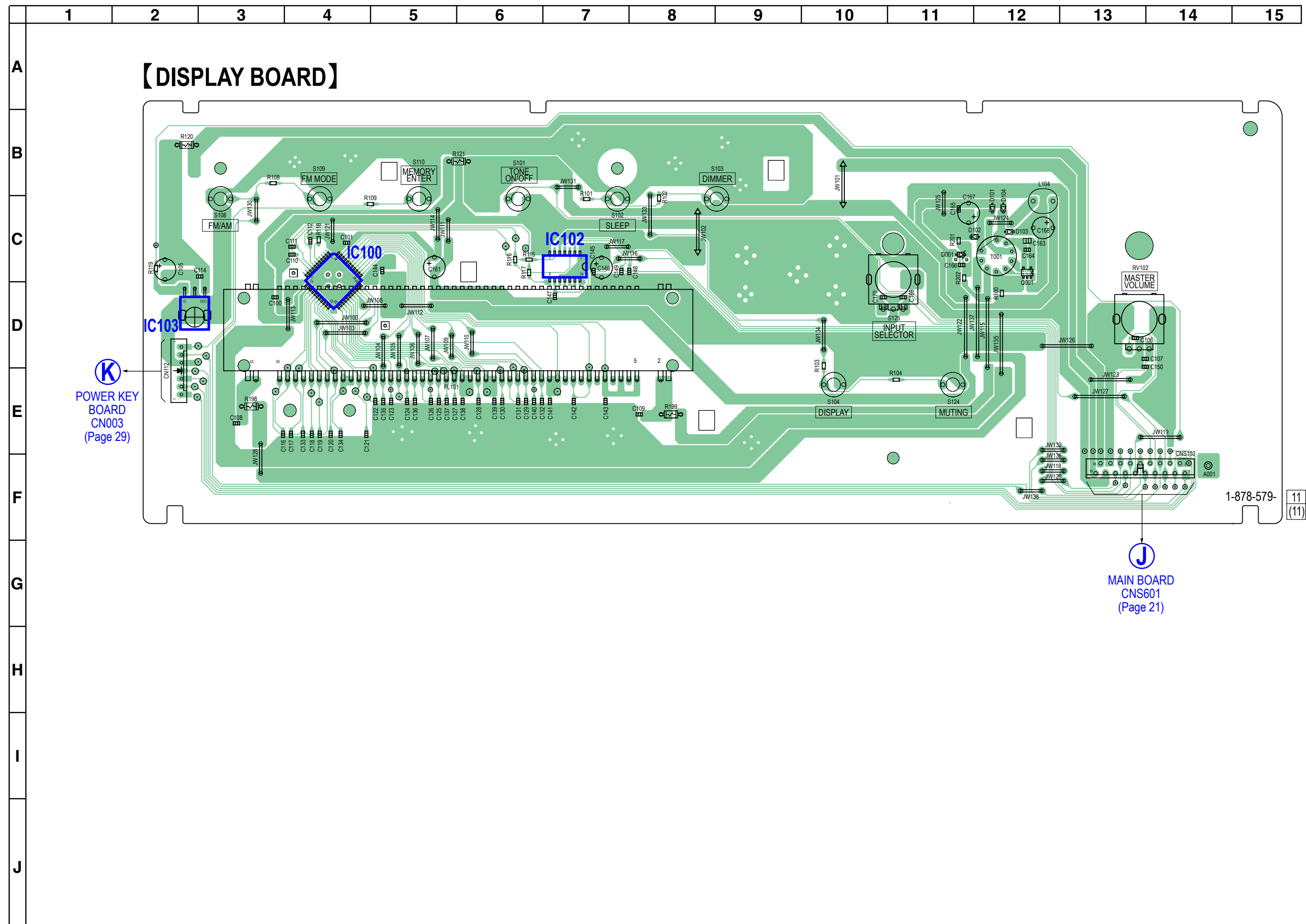
5-9. SCHEMATIC DIAGRAM — MAIN BOARD (3/3) • See page 15 for Block Diagram • Refer to page 34 IC Block Diagrams.



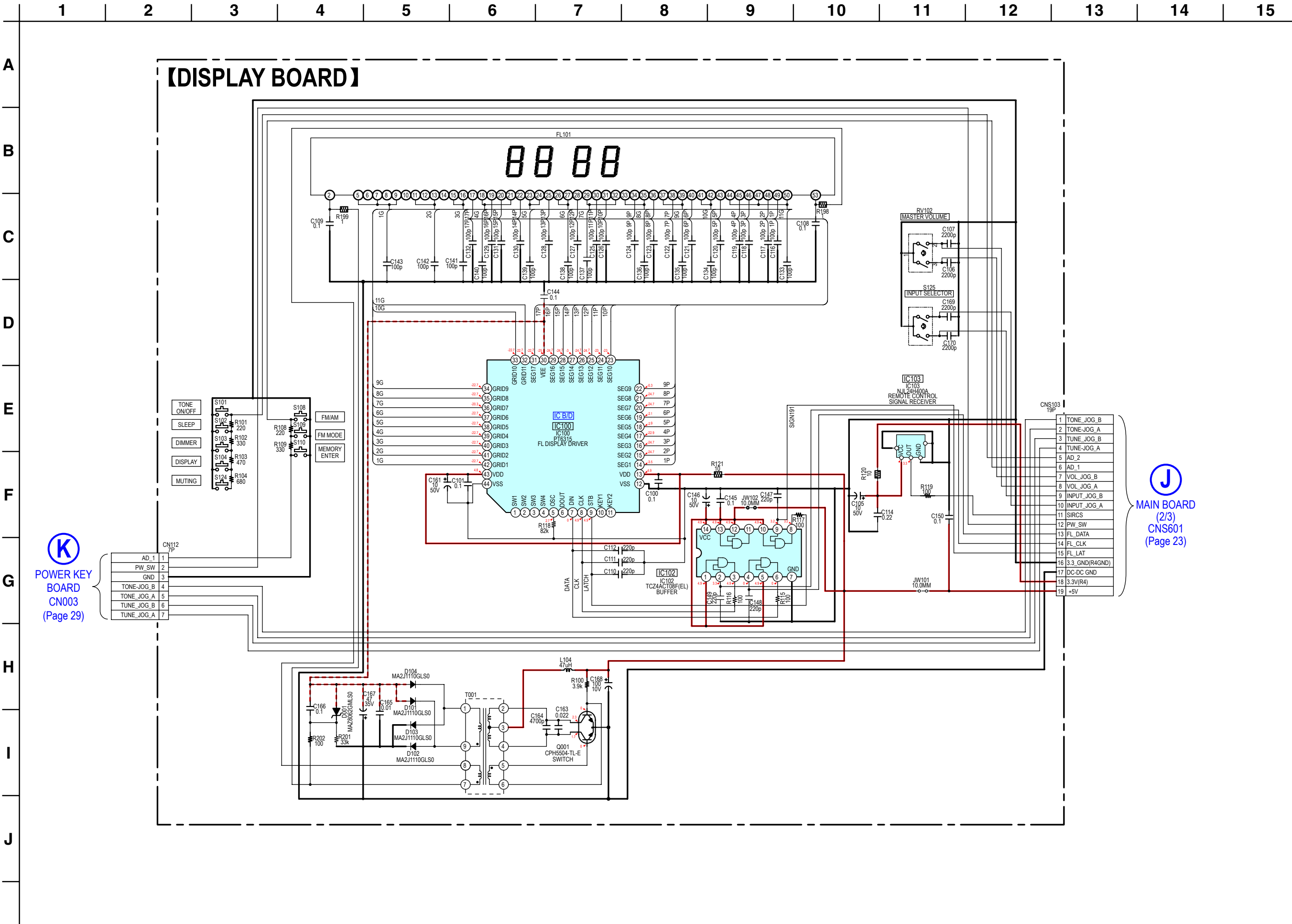
5-10. PRINTED WIRING BOARD — DMPORT BOARD — • See page 14for Circuit Boards Location.



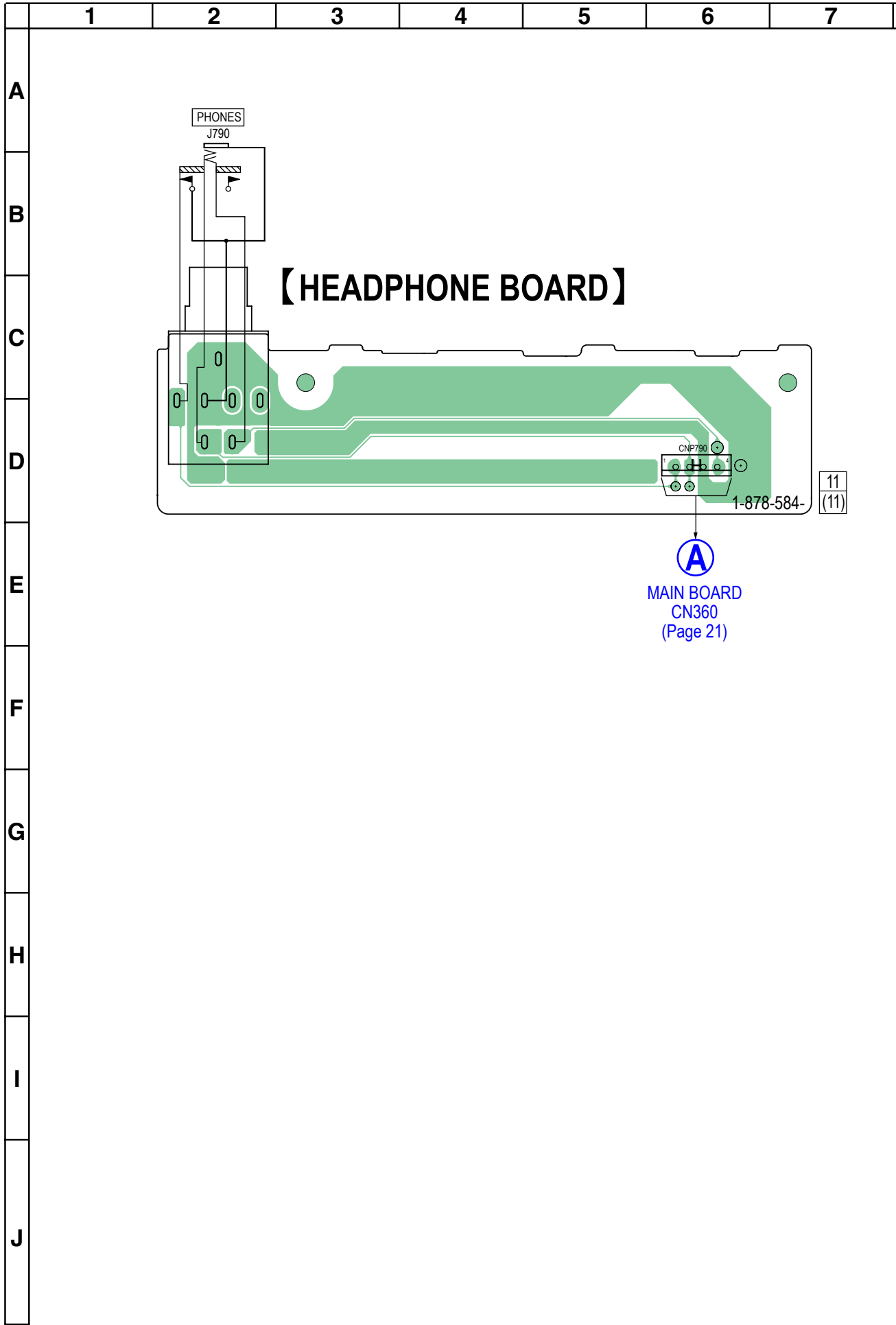
5-12. PRINTED WIRING BOARD — DISPLAY BOARD — • See page 14 for Circuit Boards Location.



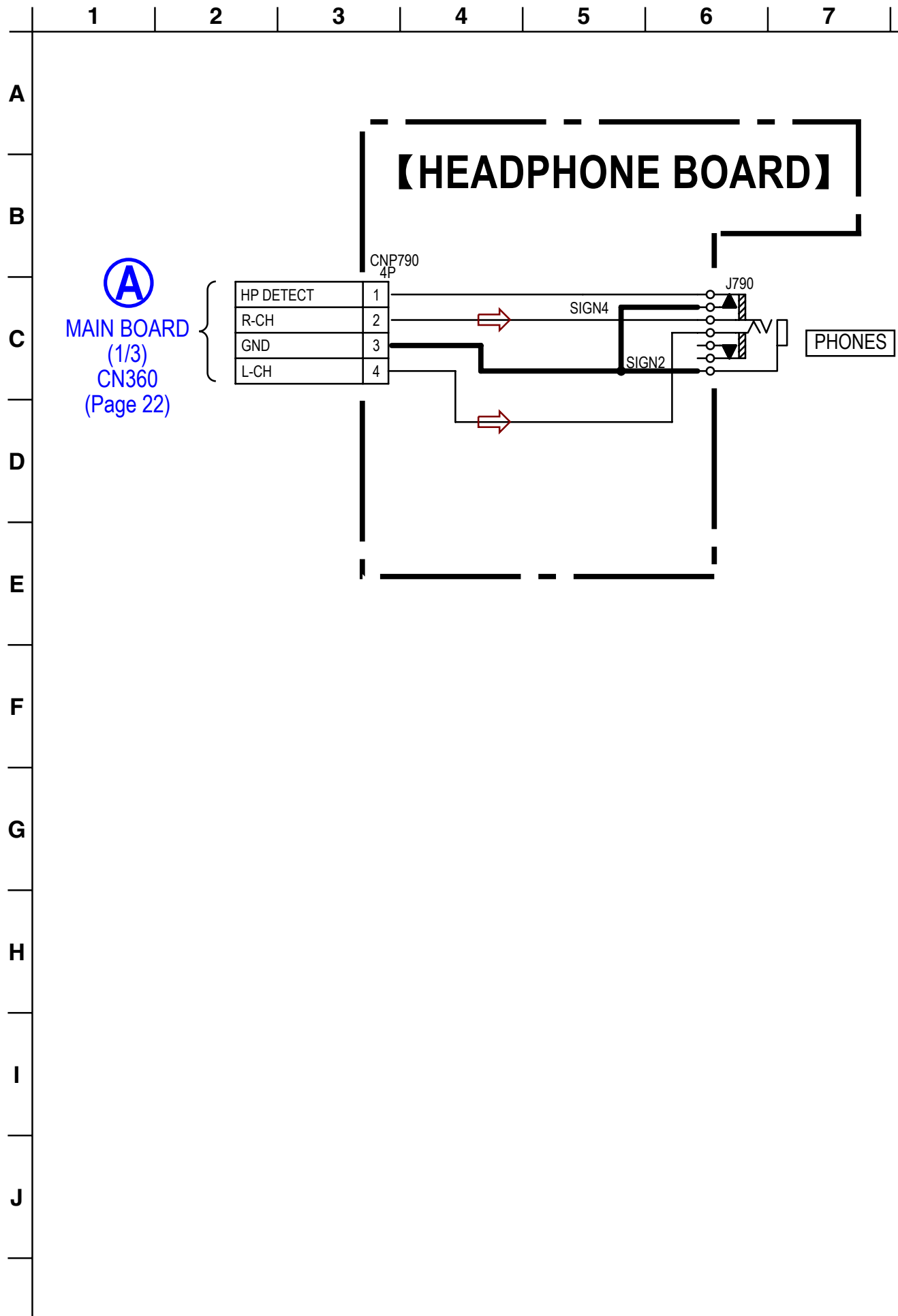
5-13. SCHEMATIC DIAGRAM — DISPLAY BOARD — • See page 15 for Block Diagram • Refer to page 34 IC Block Diagrams.



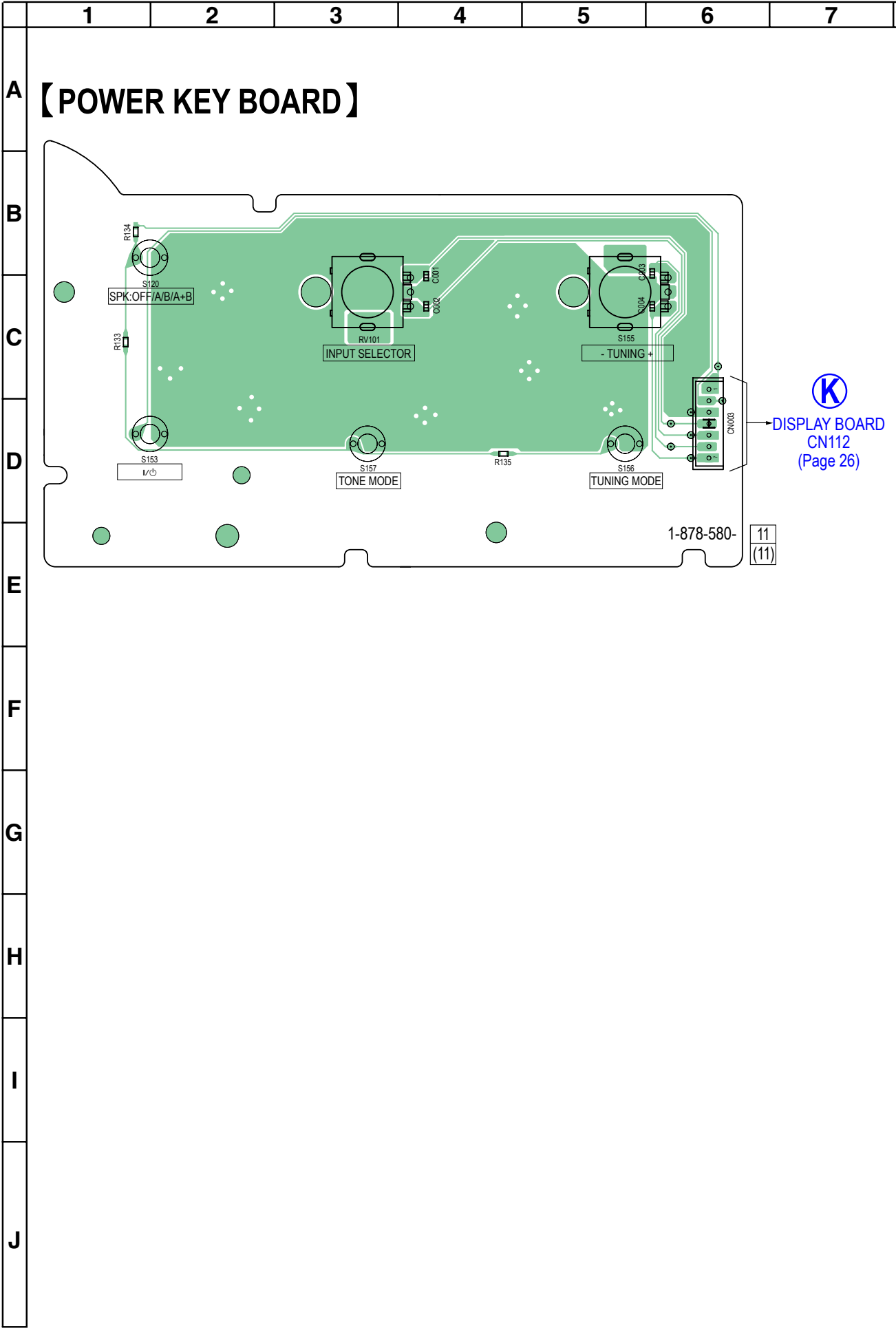
5-14. PRINTED WIRING BOARD — HEADPHONE BOARD — • Refer to page 14 for Circuit Boards Location.



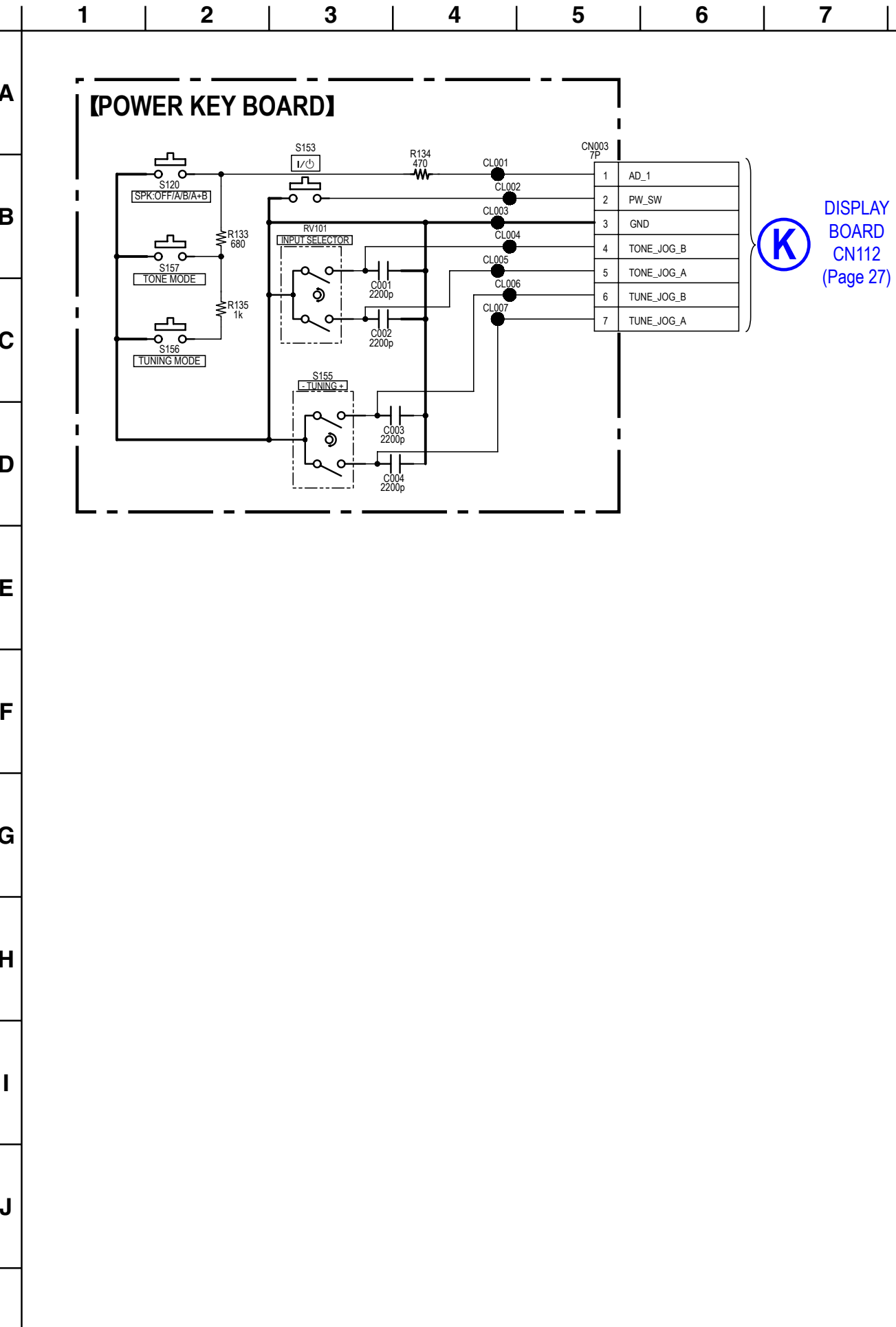
5-15. SCHEMATIC DIAGRAM — HEADPHONE BOARD —



5-16. PRINTED WIRING BOARD — POWER KEY BOARD — • See page 14 for Circuit Boards Location.



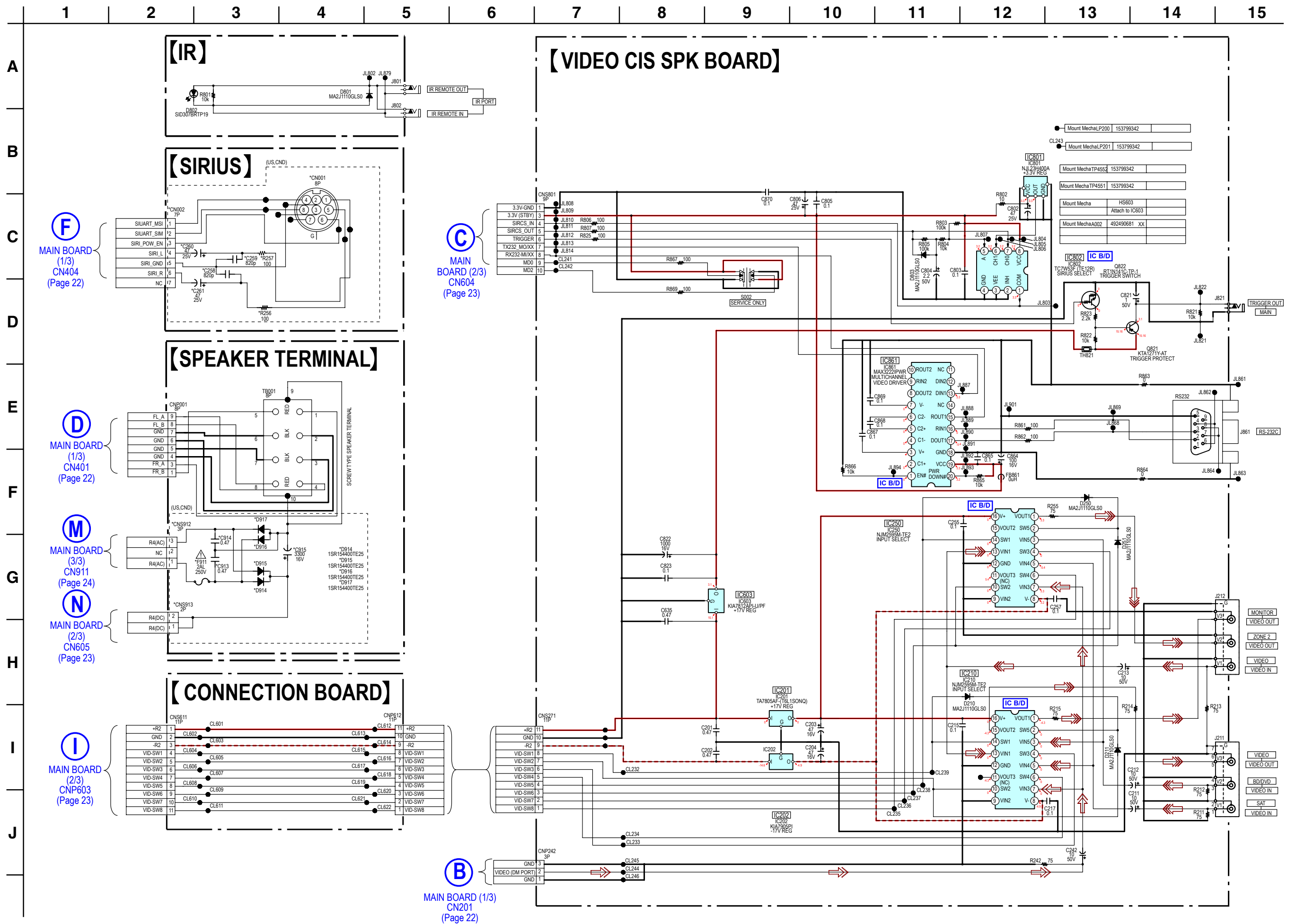
5-17. SCHEMATIC DIAGRAM — POWER KEY BOARD —

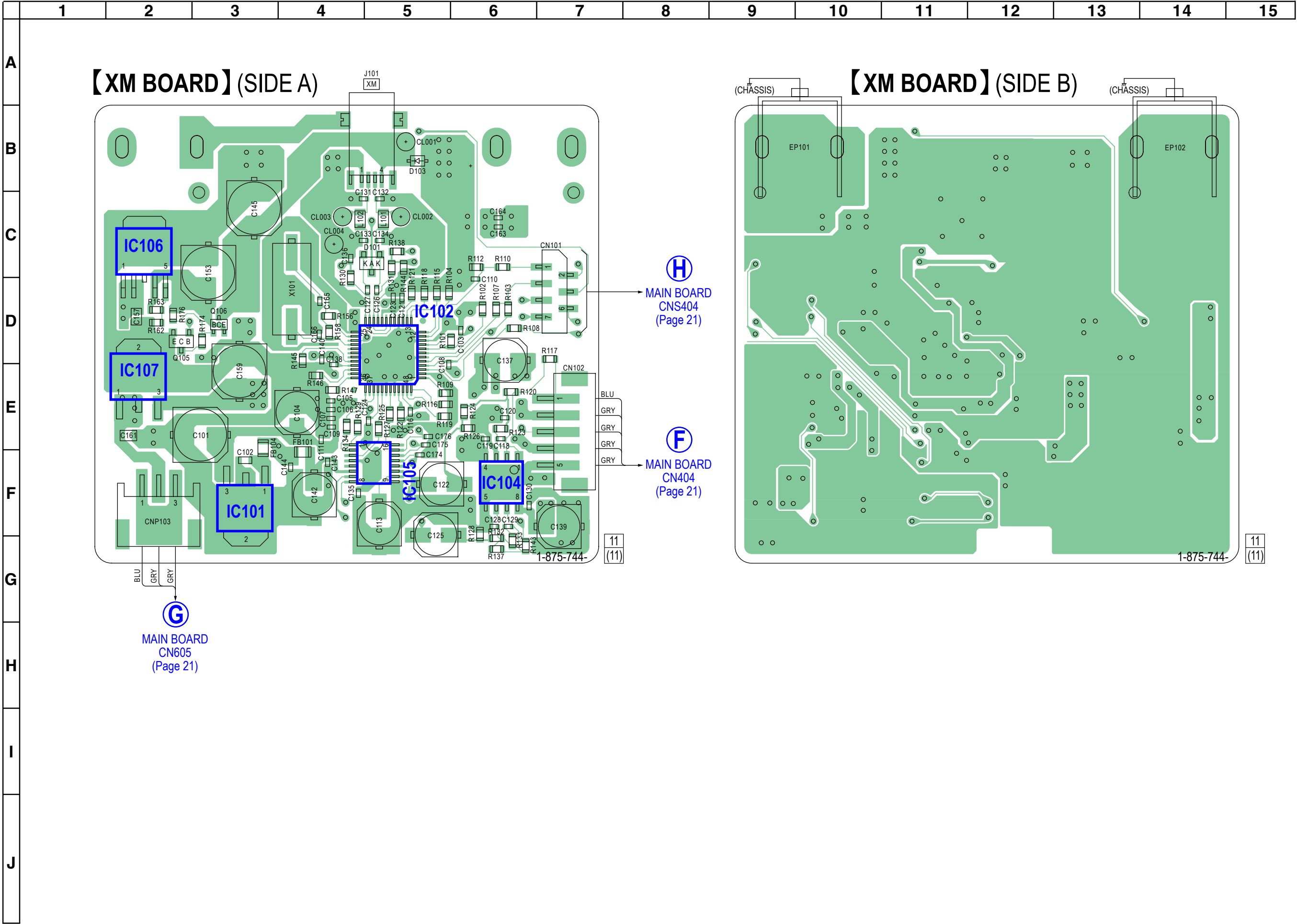


	30	30
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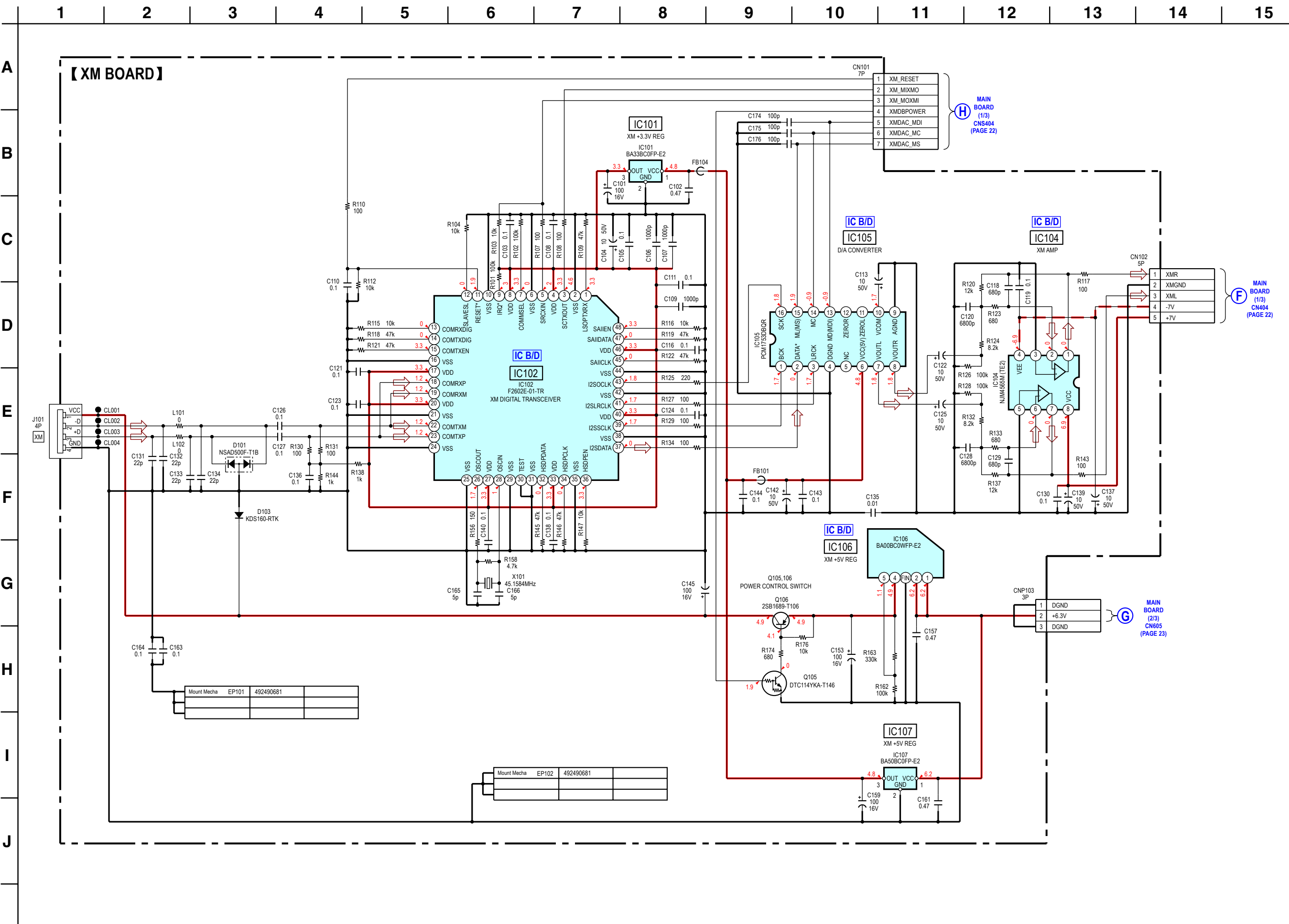


5-19. SCHEMATIC DIAGRAM — VIDEO CIS SPK BOARD — • See page 15 for Block Diagram



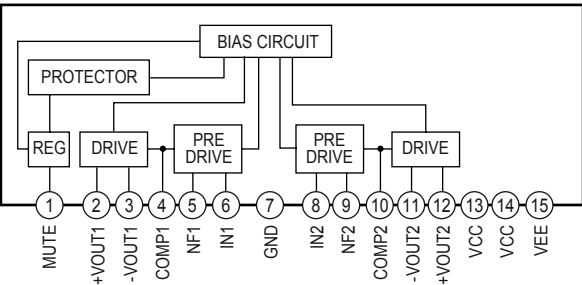


5-21. SCHEMATIC DIAGRAM — XM BOARD — • See page 15 for Block Diagram • Refer to page 34 IC Block Diagrams.

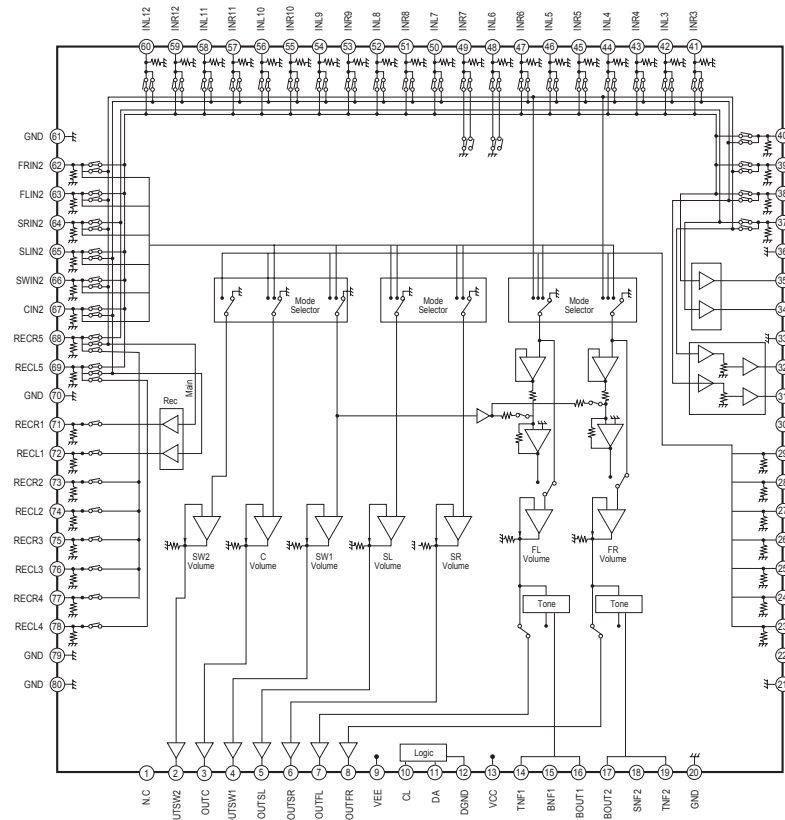


• IC Block Diagrams

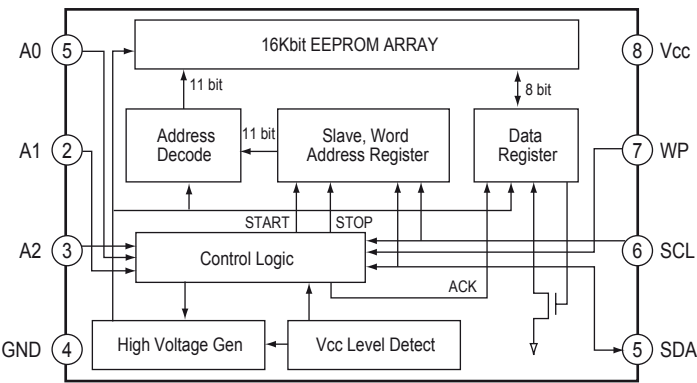
IC700 STK350-530T-E (MAIN BOARD) (1/3)



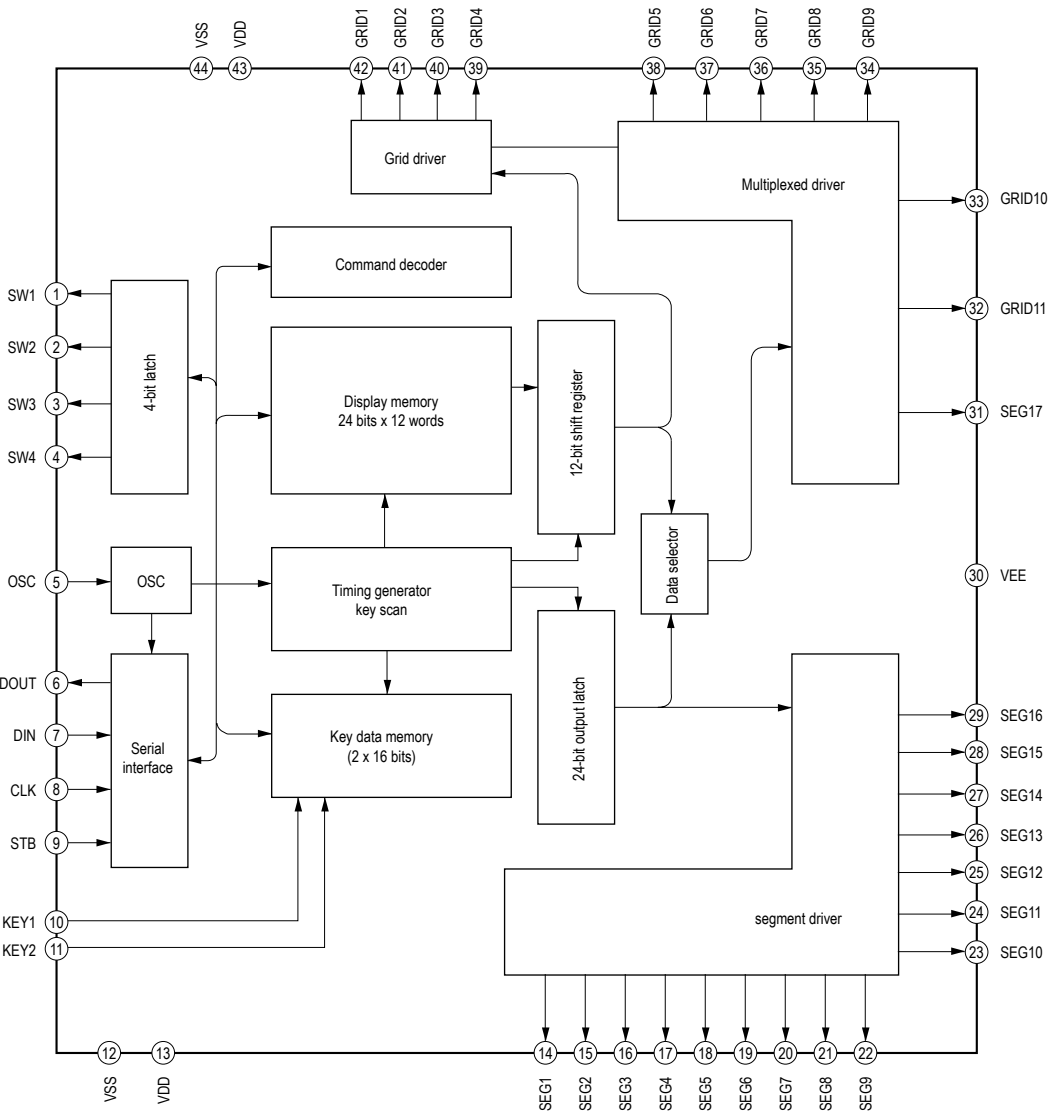
IC400 BD3474KS2 (MAIN BOARD) (1/3)

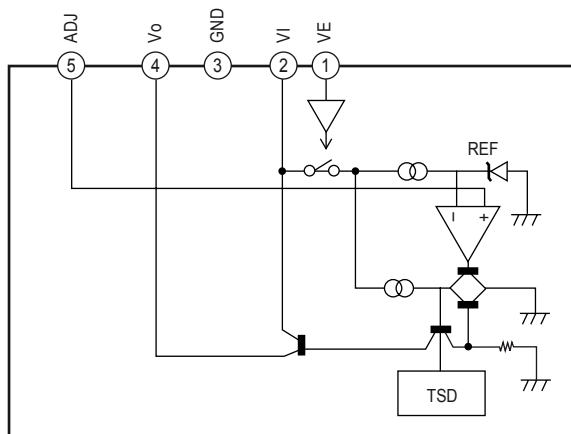
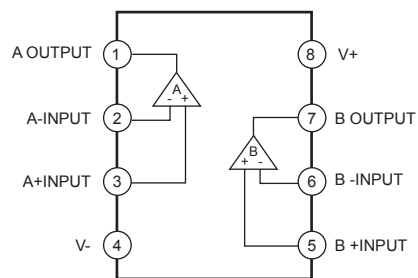
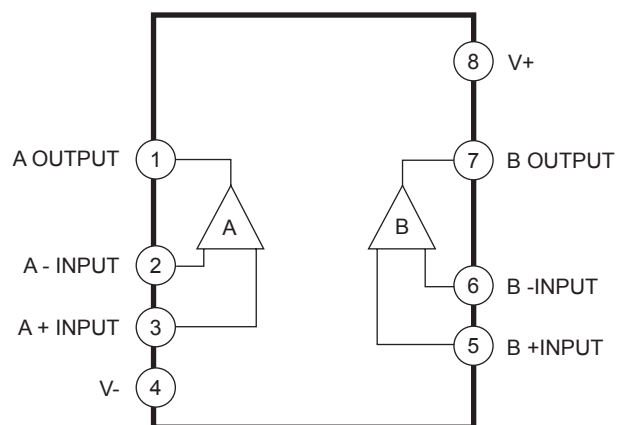


IC601 BR24S16FJ-WE2 (MAIN BOARD) (2/3)

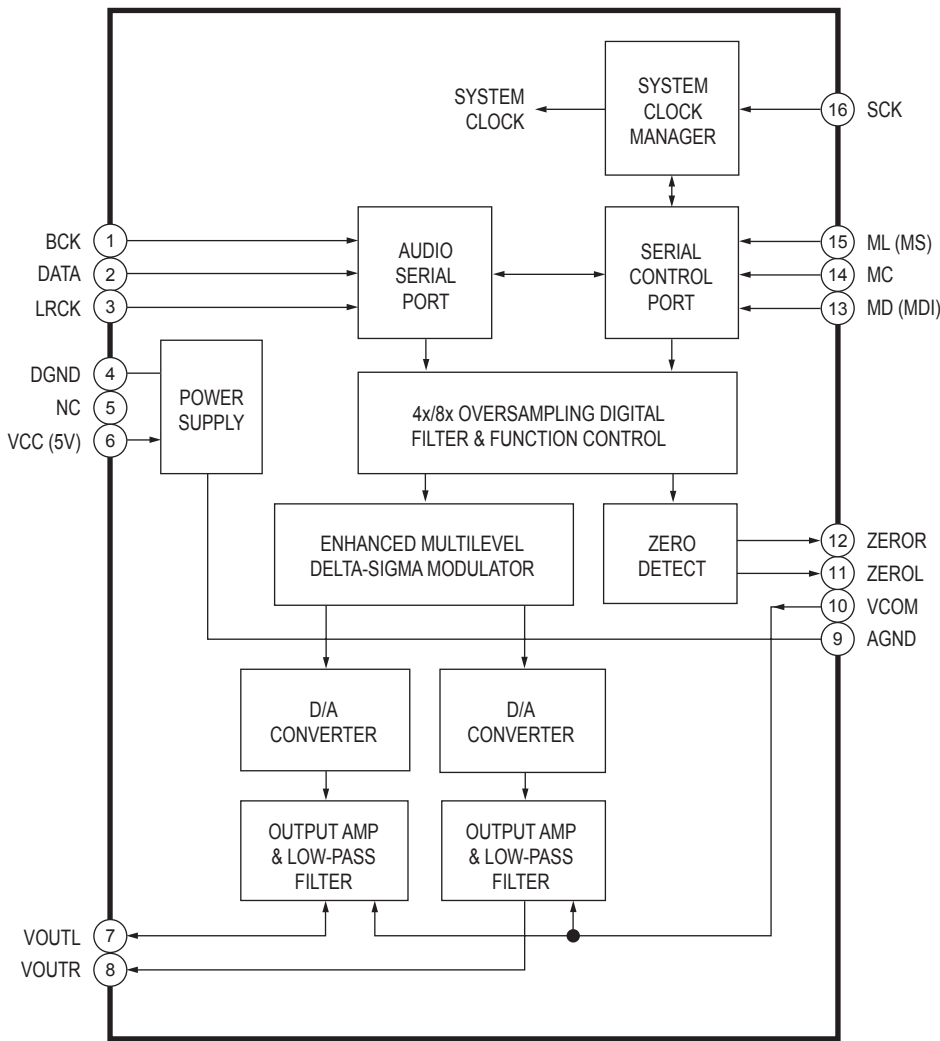


IC100 PT6315 (DISPLAY BOARD)

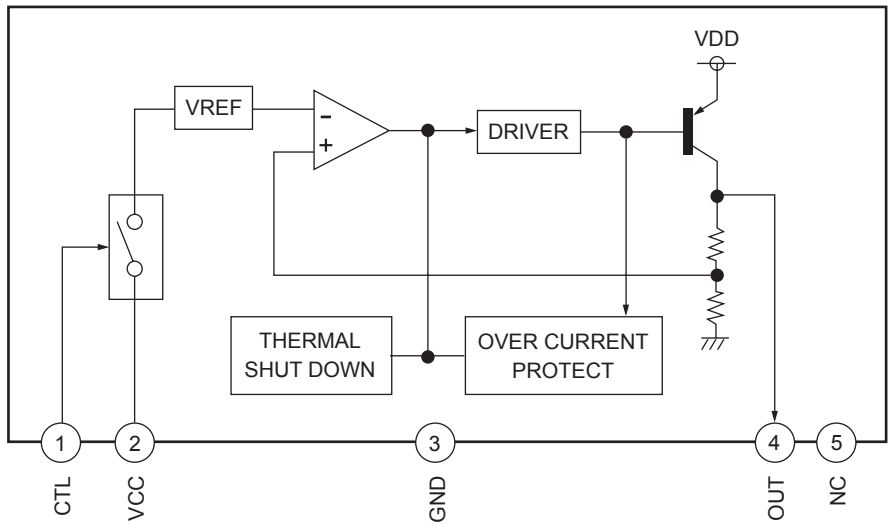


IC201 SI-3010KM-TLS (DMPORT BOARD)**IC202 NJM4558-TE2 (DMPORT BOARD)****IC104 NJM4558-TE2 (DMPORT BOARD)
IC500 NJM4558-TE2 (MAIN BOARD)**

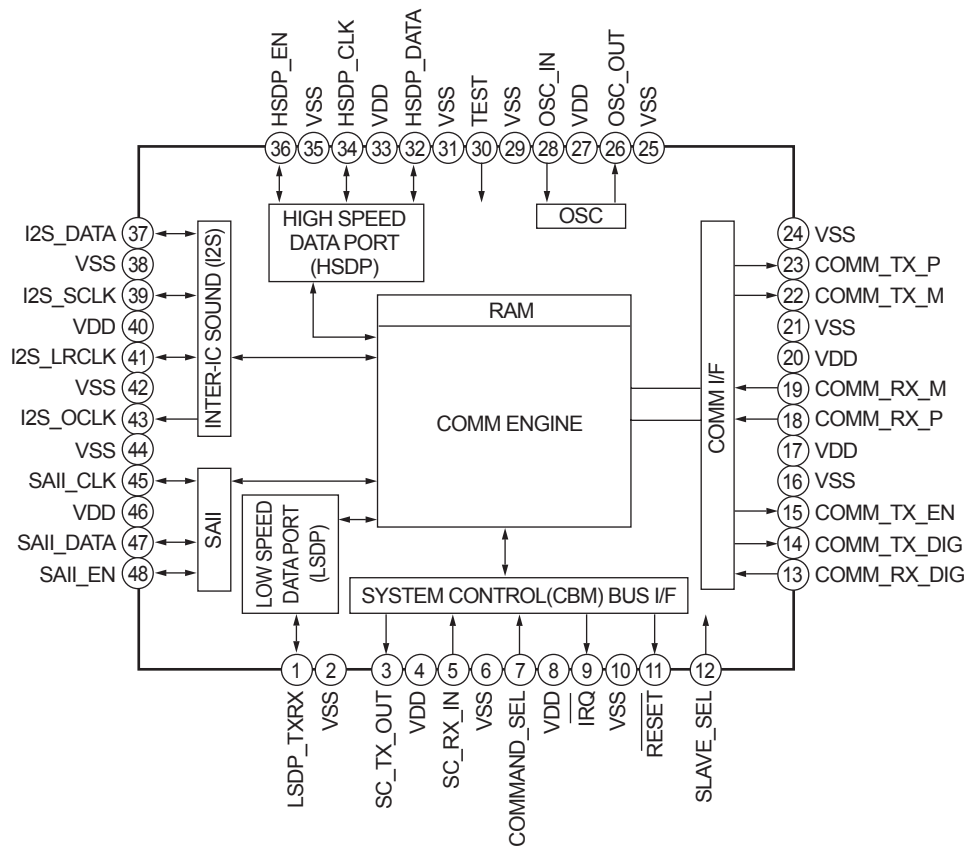
IC105 PCM1753DBQR (DMPORT BOARD)



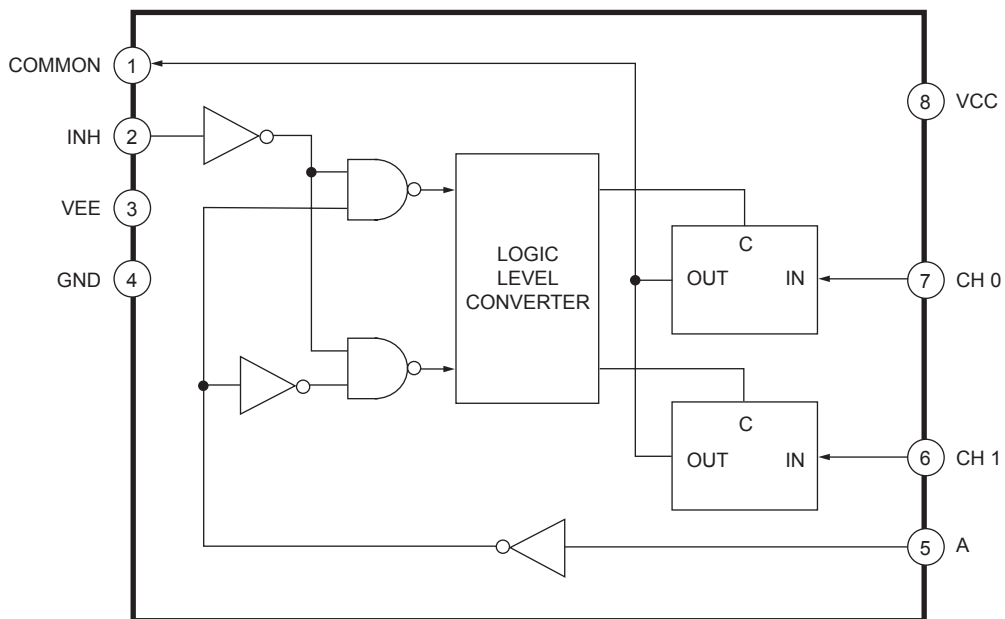
IC106 BA00BC0WFP-E2 (DMPORT BOARD)



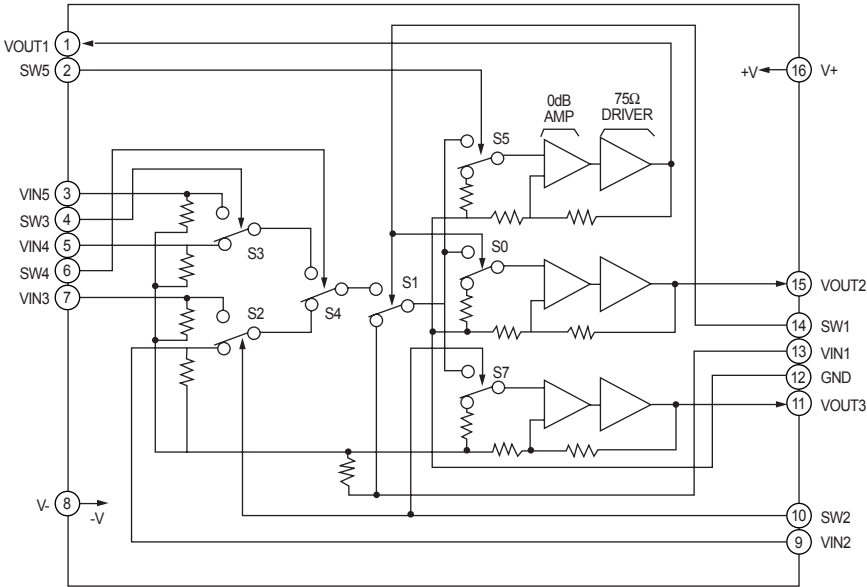
IC102 F2602E-01-TR (DMPORT BOARD)



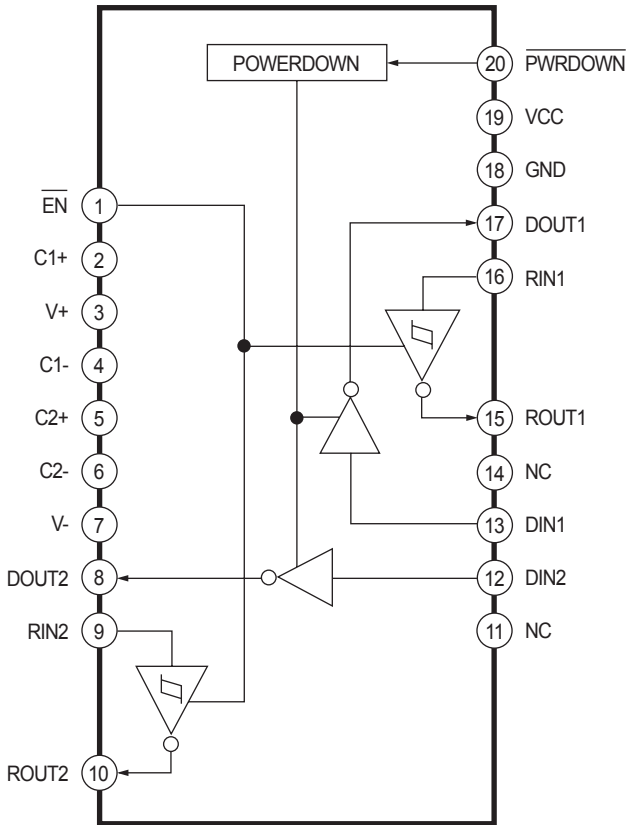
IC802 TC7W53F(TE12R) (VIDEO CIS SPEAKER BOARD)



IC210 NJM2595M-TE2 (VIDEO CIS SPEAKER BOARD)
IC250 NJM2595M-TE2 (VIDEO CIS SPEAKER BOARD)



IC861 MAX3222IPWR (VIDEO CIS SPEAKER BOARD)



• IC Pin Function Descriptions

MAIN BOARD (2/3) IC600 MB90F884BHPF-G-108E1

Pin No.	Pin Name	I/O	Description
1	NC	O	Not used
2	FUSE_DETECT	I	Fuse open detection signal input
3	TUNER_SD	I	RDS signal detection input
4	TUNER_CE	O	Latch signal output from tuner
5-7	NC	O	Not used
8	TUN_D1	O	Tuner data input for tuner pack
9	TUN_CL	O	Serial clock signal output for tuner pack
10	TUN_DO	I	Tuner data output for tuner pack
11	RDS_CLK	I	RDS data clock signal input (AEP,UK,ECE model)
12	RDS_DATA	I	RDS data input (AEP,UK,ECE model)
13-14	NC	O	Not used
15	VCC	—	Power supply pin (+3.3 V)
16	VSS	—	Ground
17	C	—	Regulator stabilization capacity
18	DMPORT_RXD	I	DMPORT receiver signal input
19	DMPORT_TXD	O	DMPORT transmitter signal output
20	DET_A/D	I	DMPORT detection signal input
21	XM_MIXMO	I	XMRADIO RECEIVE signal
22	XM_MOXMO	O	XMRADIO TRANSMIT signal
23	XM_RESET	O	XM RESET
24	XM_DBPOWER	O	XM POWER
25	XM_DACMDI	O	XM data output to DAC
26	XM_DACMC	O	XM data clock
27	XM_DACMS	O	XM data latch
28	NC	O	Not used
29	MODEL	I	MODEL signal input
30	VERSION	I	Destination detection signal input
31	TONE JOG B	I	TONE encoder (B) signal input
32	AVCC	—	Power supply pin (+3.3 V)
33	AVRH	—	Power supply pin (+3.3 V)
34	TONE JOG A	I	TONE encoder (A) signal input
35	AVSS/AVRL	—	Ground
36	TUNING_JOG_B	I	TUNING encoder (B) signal input
37	TUNING_JOG_A	I	TUNING encoder (A) signal input
38	AD_2	I	Key signal input (A/D port)
39	AD_1	I	Key signal input (A/D port)
40	VOL_JOG_B	I	MASTER VOLUME encoder (B) signal input
41	VOL_JOG_A	I	MASTER VOLUME encoder (A) signal input
42	INPUT_JOG_B	I	INPUT SELECTOR encoder (B) signal input
43	INPUT_JOG_A	I	INPUT SELECTOR encoder (A) signal input
44	VSS	—	Ground
45-46	NC	I	Thermal sensor temperature signal input
47	POWER_SW	I	Power key detection signal input
48	SIRIUS_SI/M	I	Sirius receive signal
49	SIRIUS_M/SI	O	Sirius transmit signal
50	SIRIUS_POW_EN	O	Sirius power enable
51	MD2	—	Mode setting terminal
52	MD1	—	Mode setting terminal
53	MD0	—	Mode setting terminal
54	RST	—	Reset input
55	NC	O	Not used
56	FL_DATA	O	Serial data output for tuner pack
57	FL_CLK	O	Serial clock signal output for tuner
58	FL_LAT	O	Latch signal output for FL DISPLAY DRIVER IC

STR-DA1500ES

Pin No.	Pin Name	I/O	Description
59	MI/XX - FLASH2/RX252	I	Flash 2
60	MO/XX - FLASH1/TX232	O	Flash 1
61	SDA	I/O	Serial data input and output from EEPROM IC
62	SCL	O	Clock signal output for EEPROM IC
63-64	NC	—	Not used
65	DVCC	—	Power supply pin
66	DVSS	—	Ground
67	SIRCS_IN	I	SIRCS signal input
68	NC	O	Not used
69	TRIGGER	O	12V Trigger
70	POW-RY	O	Power relay driver control signal output
71	HP_RY	O	Headphone relay driver control signal output
72	BRIDGEABLE_RY	O	Bridgeable relay driver control signal output
73	SP_A_RY	O	Front speaker A relay driver control signal output
74	SP_B_RY	O	Front speaker B relay driver control signal output
75	ZONE2_RY	O	ZONE2 relay driver control signal output
76	PROTECTOR	I	Protector detection signal input
77-78	NC	—	Not used
79	HP_DETECT	I	Headphone detection signal input
80	STOP	I	AC off detection signal input
81	VID_SW1	O	Video switching 1
82	VID_SW2	O	Video switching 2
83	VID_SW3	O	Video switching 3
84	VID_SW4	O	Video switching 4
85	VID_SW5	O	Video switching 5
86	VID_SW6	O	Video switching 6
87	VID_SW7	O	Video switching 7
88	VID_SW8	O	Video switching 8
89	NC	O	Not used
90	VCC	—	Power supply pin (+3.3 V)
91	VSS	—	Ground
92	X1	—	Clock signal output (24MHz)
93	X0	—	Clock signal input (24MHz)
94-98	NC	—	Not used
99	VOL_IC_DATA	O	Serial data output for DIR IC
100	VOL_IC_CLK	O	Clock signal output for DIR IC

SECTION 6 EXPLODED VIEWS

Note:

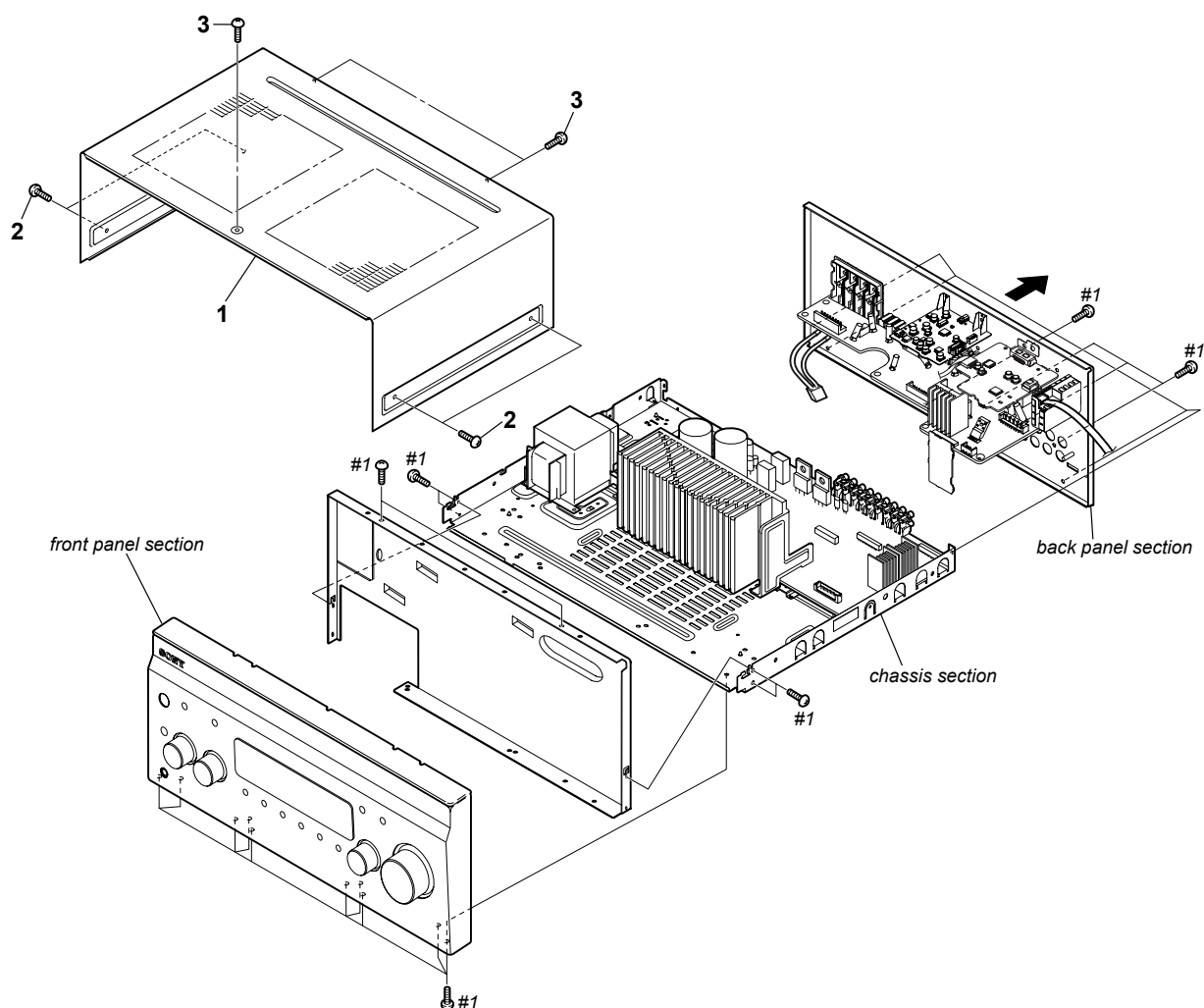
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
CND : Canadian model

- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE) . . . (RED)
Parts Color Cabinet's Color
- Accessories are given in the last of the electrical parts list.

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

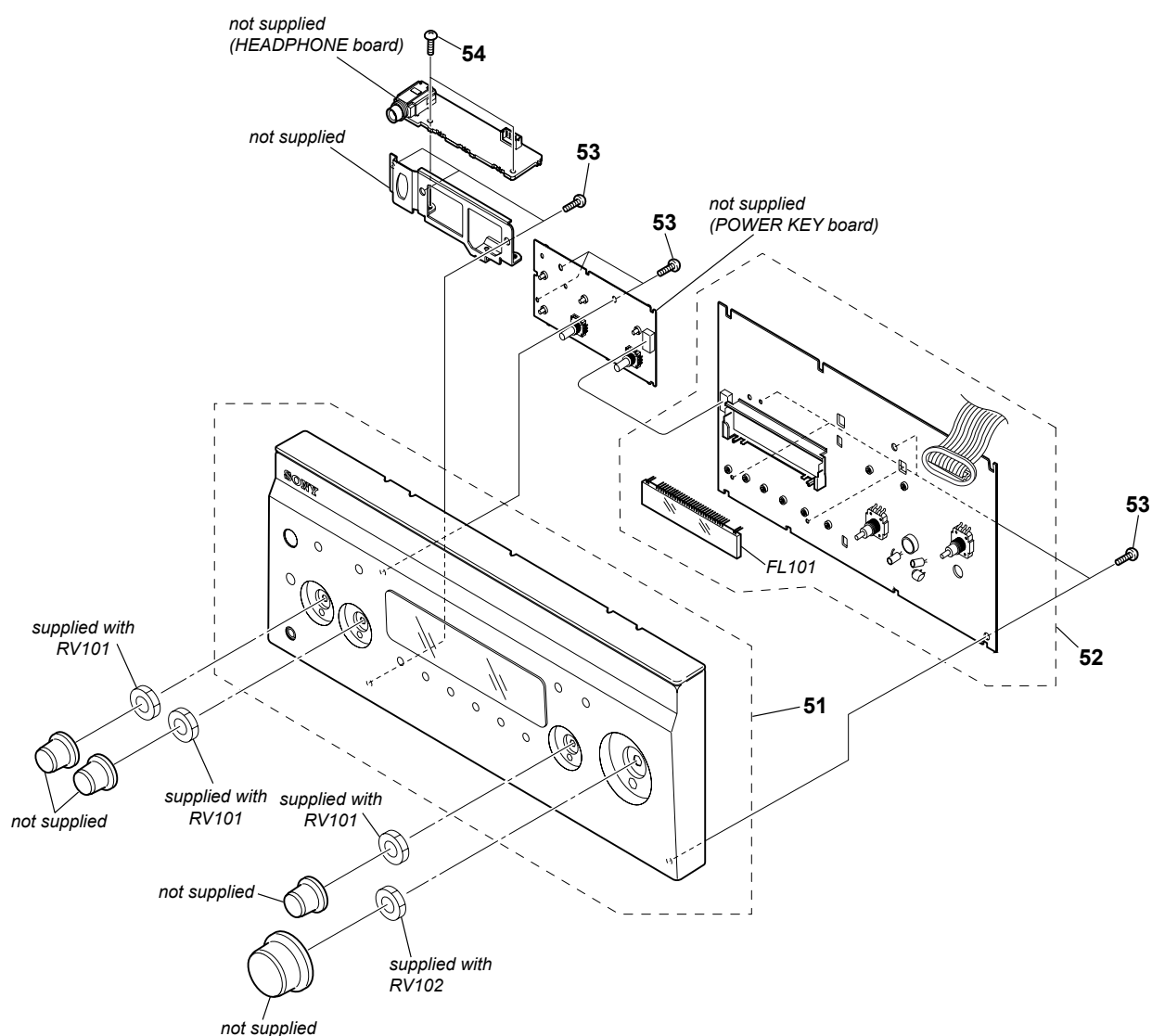
Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CASE SECTION



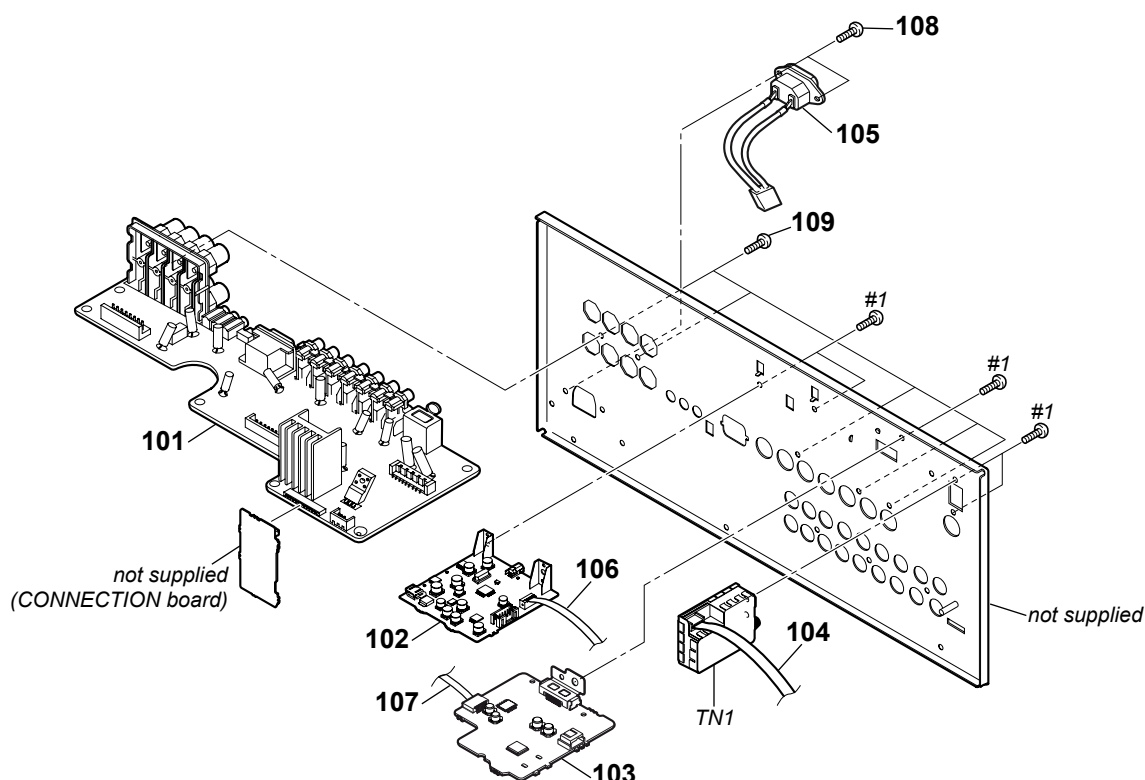
Ref. No.	Part No.	Description	Remark
1	3-286-852-71	CASE	
2	2-580-630-01	SCREW, +BVST 4X8	
3	4-227-843-03	SCREW (TP), FLAT HEAD	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

6-2. FRONT PANEL SECTION



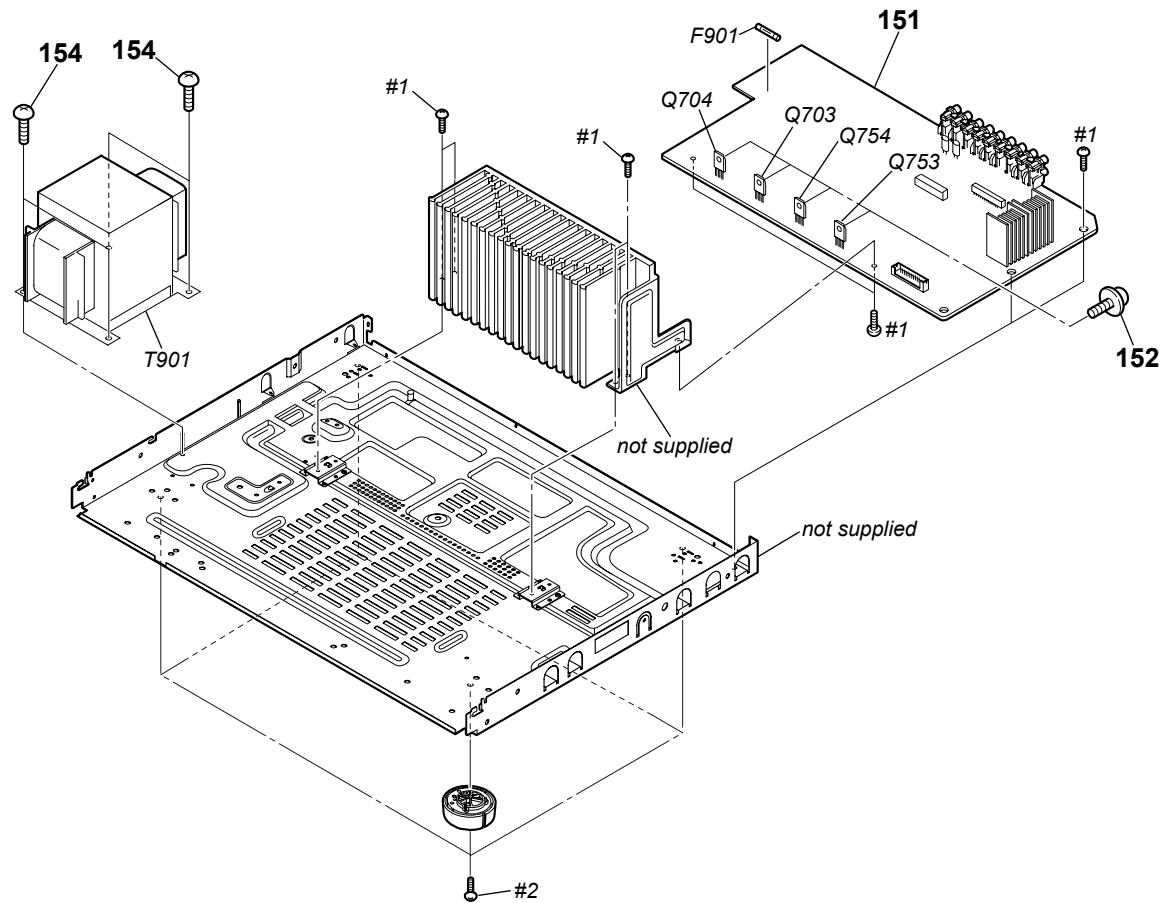
Ref. No.	Part No.	Description	Remark
51	A-1616-257-A	FRONT PANEL ASSY (US, CND)	
51	A-1616-280-A	FRONT PANEL ASSY (AEP, UK)	
52	A-1616-252-A	DISPLAY BOARD, COMPLETE	
53	3-087-053-11	+BVTP2.6 (3CR)	
54	3-077-331-21	+BV3 (3-CR)	
FL101	1-483-065-11	VACUUM FLUORESCENT DISPLAY	

6-3. BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark
101	A-1616-255-A	VIDEO-CIS-SPK BOARD, COMPLETE (US, CND)	
101	A-1616-279-A	VIDEO-CIS-SPK BOARD, COMPLETE (AEP, UK)	
102	A-1433-639-A	XM BOARD, COMPLETE (US, CND)	
103	A-1616-100-A	DMPORT BOARD, COMPLETE	
104	1-828-311-51	WIRE (FLAT TYPE) (9 CORE)	
105	1-824-964-13	CORD, POWER (US, CND)	
105	1-831-474-11	CORD, POWER (AEP)	
105	1-833-794-11	CORD, POWER (UK)	
106	1-828-301-51	WIRE (FLAT TYPE) (7 CORE) (US, CND)	
107	1-828-955-11	WIRE (FLAT TYPE) (9 CORE) (US, CND)	
107	1-827-720-11	WIRE (FLAT TYPE) (11 CORE) (AEP, UK)	
108	2-580-644-01	SCREW, +KTP2 3X8	
109	3-704-515-51	SCREW (BV/RING)	
TN1	1-693-728-31	TUNER (FM/AM) (US, CND)	
TN1	1-693-737-21	TUNER (FM/AM) (AEP, UK)	
#1	7-685-646-79	SCREW +BVTP 3 X 8 TYPE2 IT-3	

6-4. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	A-1616-250-A	MAIN BOARD, COMPLETE (US, CND)		△ T901	1-445-620-21	POWER TRANSFORMER (AEP, UK)	
151	A-1616-278-A	MAIN BOARD, COMPLETE (AEP, UK)		Q703	6-702-390-01	IC MN2488-OPY-MK	
152	3-905-609-13	SCREW (TRANSISTOR)		Q704	6-702-391-01	IC MP1620-OPY-MK	
153	X-4955-348-1	FOOT ASSY		Q753	6-702-390-01	IC MN2488-OPY-MK	
154	4-249-675-01	+BV SUMITITE S 4X6 ROUND		Q754	6-702-391-01	IC MP1620-OPY-MK	
△ F901	1-532-464-33	FUSE (T2.5AL/250V) (AEP, UK)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
△ F901	1-533-454-12	FUSE, GLASS TUBE (DIA. 5) (6.3A/125V) (US, CND)		#2	7-685-885-09	SCREW +BVTP 4X16 (S)	
△ T901	1-445-619-21	POWER TRANSFORMER (US, CND)					

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DISPLAY

DMPORT

HEADPHONE

MAIN

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
		< TRANSISTOR >					C235	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
Q001	6-550-065-01	TRANSISTOR	CPH5504-TL-E				C236	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
		< RESISTOR >					C237	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R100	1-216-828-11	METAL CHIP	3.9K	5%	1/10W		C238	1-126-395-11	ELECT CHIP	22uF	20%	16V	
R101	1-216-813-11	METAL CHIP	220	5%	1/10W		C239	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	
R102	1-216-815-11	METAL CHIP	330	5%	1/10W		C240	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R103	1-216-817-11	METAL CHIP	470	5%	1/10W		C241	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R104	1-216-819-11	METAL CHIP	680	5%	1/10W				< CONNECTOR >				
R108	1-216-813-11	METAL CHIP	220	5%	1/10W		CN201	1-784-861-51	CONNECTOR, FFC (LIF (NON-ZIF)) 9P				
R109	1-216-815-11	METAL CHIP	330	5%	1/10W		CN203	1-774-730-21	PIN, CONNECTOR (PC BOARD) 3P				
R115	1-216-809-11	METAL CHIP	100	5%	1/10W		CN204	1-817-615-21	CONNECTOR, SQUARE TYPE (RECE)				
R116	1-216-809-11	METAL CHIP	100	5%	1/10W				< IC >				
R117	1-216-809-11	METAL CHIP	100	5%	1/10W		IC201	6-712-613-01	IC SI-3010KM-TLS				
R118	1-216-844-11	METAL CHIP	82K	5%	1/10W		IC202	8-759-100-96	IC uPC4558G2				
R119	1-216-809-11	METAL CHIP	100	5%	1/10W				< COIL >				
R120	1-249-393-11	CARBON	10	5%	1/4W		L200	1-469-525-91	INDUCTOR	10uH			
R121	1-249-393-11	CARBON	10	5%	1/4W				< RESISTOR >				
R198	1-249-381-11	CARBON	1	5%	1/4W		R203	1-218-887-11	METAL CHIP	47K	0.5%	1/10W	
R199	1-249-381-11	CARBON	1	5%	1/4W		R208	1-218-887-11	METAL CHIP	47K	0.5%	1/10W	
R201	1-216-839-11	METAL CHIP	33K	5%	1/10W		R214	1-218-879-11	METAL CHIP	22K	0.5%	1/10W	
R202	1-216-809-11	METAL CHIP	100	5%	1/10W		R215	1-218-879-11	METAL CHIP	22K	0.5%	1/10W	
		< VARIABLE RESISTOR >					R220	1-216-821-11	METAL CHIP	1K	5%	1/10W	
RV102	1-418-725-41	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)					R221	1-216-821-11	METAL CHIP	1K	5%	1/10W	
		< SWITCH >					R222	1-216-840-11	METAL CHIP	39K	5%	1/10W	
S101	1-771-410-21	SWITCH, TACTILE (TONE ON/OFF)					R223	1-216-833-11	METAL CHIP	10K	5%	1/10W	
S102	1-771-410-21	SWITCH, TACTILE (SLEEP)					R224	1-216-864-11	SHORT CHIP	0			
S103	1-771-410-21	SWITCH, TACTILE (DIMMER)					R227	1-218-887-11	METAL CHIP	47K	0.5%	1/10W	
S104	1-771-410-21	SWITCH, TACTILE (DISPLAY)					R228	1-218-887-11	METAL CHIP	47K	0.5%	1/10W	
S108	1-771-410-21	SWITCH, TACTILE (FM/AM)					R229	1-218-879-11	METAL CHIP	22K	0.5%	1/10W	
S109	1-771-410-21	SWITCH, TACTILE (FM MODE)					R230	1-218-879-11	METAL CHIP	22K	0.5%	1/10W	
S110	1-771-410-21	SWITCH, TACTILE (MEMORY ENTER)					R231	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
S124	1-771-410-21	SWITCH, TACTILE (MUTING)					R232	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
S125	1-418-817-21	ENCODER, ROTARY (INPUT SELECTOR)					R237	1-216-864-11	SHORT CHIP	0			
		< TRANSFORMER >					R238	1-216-864-11	SHORT CHIP	0			
T001	1-445-231-11	TRANSFORMER, DC-DC CONVERTER					R239	1-216-864-11	SHORT CHIP	0			
*****							R240	1-216-809-11	METAL CHIP	100	5%	1/10W	
*****							R241	1-216-809-11	METAL CHIP	100	5%	1/10W	
*****							*****						
	A-1616-100-A	DMPORT BOARD, COMPLETE						A-1616-254-A	HEADPHONE BOARD, COMPLETE				
		*****							*****				
		< CAPACITOR >							< CONNECTOR >				
C210	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		* CNP790	1-564-507-11	PLUG, CONNECTOR 4P				
C212	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V				< JACK >				
C213	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		J790	1-822-554-21	JACK (PHONES)				
C214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		*****						
C220	1-128-995-21	ELECT CHIP	100uF	20%	10V		A-1616-250-A	MAIN BOARD, COMPLETE (US CND)					
C221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		A-1616-278-A	MAIN BOARD, COMPLETE (AEP, UK)					
C222	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V			*****					
C223	1-126-206-11	ELECT CHIP	100uF	20%	6.3V		7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3					
C229	1-165-908-11	CERAMIC CHIP	1uF	10%	10V		7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3					
C230	1-165-908-11	CERAMIC CHIP	1uF	10%	10V								
C231	1-165-908-11	CERAMIC CHIP	1uF	10%	10V								
C232	1-165-908-11	CERAMIC CHIP	1uF	10%	10V								
C233	1-162-927-11	CERAMIC CHIP	100PF	5%	50V								
C234	1-162-927-11	CERAMIC CHIP	100PF	5%	50V								

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
< CAPACITOR >							C619	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C323	1-126-924-11	ELECT	330uF	20%	10V		C620	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C325	1-126-964-11	ELECT	10uF	20%	50V		C621	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C350	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V		C622	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C351	1-112-084-11	ELECT	470uF	20%	16V		C623	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C352	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V		C624	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C353	1-112-084-11	ELECT	470uF	20%	16V		C625	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C354	1-126-947-11	ELECT	47uF	20%	35V		C626	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C355	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V		C627	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C404	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V		C628	1-104-661-91	ELECT	330uF	20%	16V	
C405	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V		C629	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C412	1-126-964-11	ELECT	10uF	20%	50V		C630	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C413	1-126-964-11	ELECT	10uF	20%	50V		C631	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C416	1-126-964-11	ELECT	10uF	20%	50V		C632	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C418	1-126-964-11	ELECT	10uF	20%	50V		C633	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C462	1-126-964-11	ELECT	10uF	20%	50V		C634	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C463	1-126-964-11	ELECT	10uF	20%	50V		C636	1-135-372-31	ELECT	470uF	20%	10V	
C466	1-126-964-11	ELECT	10uF	20%	50V		C637	1-126-923-91	ELECT	220uF	20%	10V	
C468	1-126-964-11	ELECT	10uF	20%	50V		C638	1-135-372-31	ELECT	470uF	20%	10V	
C471	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V							(US CND)	
C472	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C639	1-135-372-31	ELECT	470uF	20%	10V	
C473	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C640	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V	
C476	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V		C641	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V	
C478	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V							(US CND)	
C479	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C642	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V	
C482	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C683	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C483	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C702	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C501	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V		C703	1-101-810-00	CERAMIC	100PF	5%	500V	
C502	1-164-230-11	CERAMIC CHIP	220PF	5%	50V		C704	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C503	1-112-097-11	ELECT	2.2uF	20%	50V		C705	1-107-583-11	CERAMIC	3PF	0.25PF	500V	
C504	1-162-927-11	CERAMIC CHIP	100PF	5%	50V		C707	1-126-947-11	ELECT	47uF	20%	35V	
C505	1-112-084-11	ELECT	470uF	20%	16V		C708	1-162-815-11	CERAMIC	47PF	5%	500V	
C506	1-125-896-91	MYLAR	0.0091uF	5%	50V		C709	1-162-815-11	CERAMIC	47PF	5%	500V	
C507	1-136-159-00	MYLAR	0.033uF	5%	50V		C711	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C508	1-112-097-11	ELECT	2.2uF	20%	50V		C716	1-112-079-11	ELECT	220uF	20%	10V	
C551	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V		C729	1-136-157-00	FILM	0.022uF	5%	50V	
C552	1-164-230-11	CERAMIC CHIP	220PF	5%	50V		C752	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C553	1-112-097-11	ELECT	2.2uF	20%	50V		C753	1-101-810-00	CERAMIC	100PF	5%	500V	
C554	1-162-927-11	CERAMIC CHIP	100PF	5%	50V		C754	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C555	1-112-084-11	ELECT	470uF	20%	16V		C755	1-107-583-11	CERAMIC	3PF	0.25PF	500V	
C556	1-125-896-91	MYLAR	0.0091uF	5%	50V		C757	1-126-947-11	ELECT	47uF	20%	35V	
C557	1-136-159-00	MYLAR	0.033uF	5%	50V		C758	1-162-815-11	CERAMIC	47PF	5%	500V	
C558	1-112-097-11	ELECT	2.2uF	20%	50V		C759	1-162-815-11	CERAMIC	47PF	5%	500V	
C601	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C761	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C602	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C766	1-112-079-11	ELECT	220uF	20%	10V	
C603	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C771	1-112-100-11	ELECT	10uF	20%	50V	
C605	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C772	1-112-100-11	ELECT	10uF	20%	50V	
C606	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C779	1-136-157-00	FILM	0.022uF	5%	50V	
C607	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C901	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	
C608	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C902	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	
C609	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C903	1-126-936-11	ELECT	3300uF	20%	16V	
C610	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C906	1-126-960-11	ELECT	1uF	20%	50V	
C611	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C910	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V	
C612	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C911	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V	
C613	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C912	1-126-936-11	ELECT	3300uF	20%	16V	
C614	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C920	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	
C615	1-165-647-91	CERAMIC CHIP	0.47uF	10%	6.3V		C921	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	
C616	1-162-960-11	CERAMIC CHIP	220PF	10%	50V		C922	1-112-093-11	ELECT	2200uF	20%	25V	
C617	1-162-960-11	CERAMIC CHIP	220PF	10%	50V		C923	1-126-942-61	ELECT	1000uF	20%	25V	
C618	1-162-960-11	CERAMIC CHIP	220PF	10%	50V		C930	1-135-851-21	MYLAR	0.22uF		100V	

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C931	1-135-851-21	MYLAR	0.22uF		100V	CNS601	1-784-780-11	CONNECTOR, FFC 19P			
C932	1-109-932-15	ELECT (BLOCK)	10000uF	20%	71V	CNS602	1-779-546-11	CONNECTOR, FFC (LIF (NON-ZIF)) 9P			
C933	1-109-932-15	ELECT (BLOCK)	10000uF	20%	71V						
< DIODE >											
C8144	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D320	6-501-817-01	DIODE MA2J1110GLS0			
C8147	1-126-947-11	ELECT	47uF	20%	35V	D325	6-501-817-01	DIODE MA2J1110GLS0			
C8149	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V	D326	6-501-817-01	DIODE MA2J1110GLS0			
CC01	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D327	6-501-817-01	DIODE MA2J1110GLS0			
						D350	6-501-817-01	DIODE MA2J1110GLS0			
CC02	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D352	8-719-053-18	DIODE 1SR154-400TE-25			
						D355	6-501-817-01	DIODE MA2J1110GLS0			
CC03	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D360	6-501-817-01	DIODE MA2J1110GLS0			
						D365	6-501-817-01	DIODE MA2J1110GLS0			
CC04	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D602	6-501-817-01	DIODE MA2J1110GLS0			
CC05	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D603	6-501-817-01	DIODE MA2J1110GLS0			
CC06	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D605	8-719-053-18	DIODE 1SR154-400TE-25			
						D711	6-501-817-01	DIODE MA2J1110GLS0			
CC07	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D761	6-501-817-01	DIODE MA2J1110GLS0			
						D901	6-501-817-01	DIODE MA2J1110GLS0			
CC08	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D902	8-719-053-18	DIODE 1SR154-400TE-25			
						D903	8-719-053-18	DIODE 1SR154-400TE-25			
CC09	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D904	8-719-053-18	DIODE 1SR154-400TE-25			
CC10	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D905	8-719-053-18	DIODE 1SR154-400TE-25			
CC11	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D906	6-501-817-01	DIODE MA2J1110GLS0			
CC12	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D907	6-501-817-01	DIODE MA2J1110GLS0			
						D910	8-719-210-39	DIODE EC10QS-04			
CC13	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D911	8-719-210-39	DIODE EC10QS-04			
						D912	8-719-210-39	DIODE EC10QS-04			
CC14	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D913	8-719-210-39	DIODE EC10QS-04			
CC51	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D920	8-719-075-77	DIODE EC10DA40-TE12			
						D921	8-719-075-77	DIODE EC10DA40-TE12			
CC52	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D922	8-719-075-77	DIODE EC10DA40-TE12			
						D923	8-719-075-77	DIODE EC10DA40-TE12			
CC53	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D930	6-501-817-01	DIODE MA2J1110GLS0			
CC54	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D931	6-501-003-11	DIODE D5SBA20-4003			
						D8005	6-501-817-01	DIODE MA2J1110GLS0			
< EARTH TERMINAL >											
CC55	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	* ET601	1-537-738-21	TERMINAL, EARTH			
CC56	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	< FUSE >					
CC57	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	F910	1-523-084-11	FUSE	2A	250V	
						F920	1-523-084-11	FUSE	2A	250V	
CC58	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	F921	1-523-084-11	FUSE	2A	250V	
						< FERRITE BEAD >					
< CONNECTOR >											
CN402	1-784-770-11	CONNECTOR, FFC 9P (US CND)									
CN403	1-568-830-11	CONNECTOR, FFC 11P (AEP, UK)									
* CN910	1-564-507-11	PLUG, CONNECTOR 4P									
< CONNECTOR >											
< HOLDER, FUSE >											
CNP603	1-573-843-11	CONNECTOR, BOARD TO BOARD 11P									
CNP901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P									
* CNP902	1-565-792-11	PIN, CONNECTOR (3.96mm PITCH) 2P									
* CNP920	1-564-506-11	PLUG, CONNECTOR 3P									
CNP930	1-564-242-00	PIN, CONNECTOR (3.96mm PITCH) 5P									
< IC >											
< CONNECTOR >											
IC350	6-712-294-01	IC KIA7807API-U/PF									
IC352	6-712-295-01	IC KIA7907PI									
IC400	6-713-813-01	IC BD3474KS2									
IC500	8-759-710-97	IC NJM4565M-D									
CNS200	1-779-277-11	CONNECTOR, FFC (LIF (NON-ZIF)) 9P									
CNS404	1-779-275-11	CONNECTOR, FFC (LIF (NON-ZIF)) 7P (US CND)									

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
IC600	6-808-615-02	IC MB90F884BHPF-G-108E1					R355	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
IC601	6-713-627-01	IC BR24S16FJ -WE2					R356	1-249-402-11	CARBON	56	5%	1/4W	
IC602	6-702-913-01	IC S-80929CNMC-G8ZT2G					R357	1-249-401-11	CARBON	47	5%	1/4W	
IC603	6-706-478-01	IC TC7SET08FU (T5RSOJF) (US CND)					R358	1-216-841-11	METAL CHIP	47K	5%	1/10W	
IC604	6-705-468-01	IC BA33BC0FP-E2					R359	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
IC605	6-712-108-01	IC KIA7806API-U/PF (US CND)					R360	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
IC606	6-713-031-01	IC KIA7805API-U/PF					R361	1-249-402-11	CARBON	56	5%	1/4W	
IC607	6-712-108-01	IC KIA7806API-U/PF					R362	1-249-401-11	CARBON	47	5%	1/4W	
IC700	6-710-828-01	IC STK350-530T-E					R363	1-216-841-11	METAL CHIP	47K	5%	1/10W	
IC701	6-709-800-01	IC TA7809AF-(T6L1SONQ)					R365	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
		< JACK >					R366	1-216-841-11	METAL CHIP	47K	5%	1/10W	
J404	1-774-411-11	JACK, PIN 6P (PHONO IN, SA-CD/CD IN, MD/TAPE OUT)					R367	1-249-411-11	CARBON	330	5%	1/4W	
J405	1-774-411-11	JACK, PIN 6P (MD/TAPE IN, SAT AUDIO IN, B/D DVD AUDIO IN)					R392	1-215-891-11	METAL OXIDE	680	5%	2W	
J406	1-774-411-11	JACK, PIN 6P (VIDEO AUDIO IN, VIDEO AUDIO OUT, ZONE 2 OUT)					R393	1-215-891-11	METAL OXIDE	680	5%	2W	
		< JUMPER RESISTOR >					R412	1-216-821-11	METAL CHIP	1K	5%	1/10W	
JR502	1-216-864-11	SHORT CHIP 0 (AEP, UK)					R413	1-216-821-11	METAL CHIP	1K	5%	1/10W	
JR503	1-216-864-11	SHORT CHIP 0 (AEP, UK)					R414	1-216-821-11	METAL CHIP	1K	5%	1/10W	
JR552	1-216-864-11	SHORT CHIP 0 (AEP, UK)					R415	1-216-821-11	METAL CHIP	1K	5%	1/10W	
JR553	1-216-864-11	SHORT CHIP 0 (AEP, UK)					R416	1-216-821-11	METAL CHIP	1K	5%	1/10W	
		< COIL >					R417	1-216-821-11	METAL CHIP	1K	5%	1/10W	
L728	1-420-872-52	COIL, AIR-CORE					R418	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	
L778	1-420-872-52	COIL, AIR-CORE					R419	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	
		< TRANSISTOR >					R420	1-216-821-11	METAL CHIP	1K	5%	1/10W	
Q323	8-729-216-31	TRANSISTOR 2SA1163-G					R462	1-216-821-11	METAL CHIP	1K	5%	1/10W	
Q324	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF					R463	1-216-821-11	METAL CHIP	1K	5%	1/10W	
Q325	8-729-271-31	TRANSISTOR 2SC2713-G					R464	1-216-821-11	METAL CHIP	1K	5%	1/10W	
Q350	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF					R465	1-216-821-11	METAL CHIP	1K	5%	1/10W	
Q355	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF					R466	1-216-821-11	METAL CHIP	1K	5%	1/10W	
Q360	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF					R467	1-216-821-11	METAL CHIP	1K	5%	1/10W	
Q365	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF					R468	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE					R469	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	
Q702	8-729-922-39	TRANSISTOR 2SD2144S-V					R470	1-216-821-11	METAL CHIP	1K	5%	1/10W	
Q711	8-729-216-31	TRANSISTOR 2SA1163-G					R471	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
Q712	8-729-216-31	TRANSISTOR 2SA1163-G					R476	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
Q751	8-729-119-76	TRANSISTOR 2SA1175-HFE					R501	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	
Q752	8-729-922-39	TRANSISTOR 2SD2144S-V					R502	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	
Q761	8-729-216-31	TRANSISTOR 2SA1163-G					R503	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	
Q762	8-729-216-31	TRANSISTOR 2SA1163-G					R504	1-218-829-11	METAL CHIP	180	0.5%	1/10W	
Q901	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF					R505	1-218-869-11	METAL CHIP	8.2K	0.5%	1/10W	
Q906	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF					R506	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	
Q930	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF					R507	1-218-823-11	METAL CHIP	100	0.5%	1/10W	
		< RESISTOR >					R508	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	
R323	1-216-840-11	METAL CHIP 39K	5%	1/10W			R509	1-218-839-11	METAL CHIP	470	0.5%	1/10W	
R324	1-216-809-11	METAL CHIP 100	5%	1/10W			R545	1-249-377-11	CARBON	0.47	5%	1/4W	
R325	1-218-867-11	METAL CHIP 6.8K	0.5%	1/10W			R546	1-249-377-11	CARBON	0.47	5%	1/4W	
R326	1-216-840-11	METAL CHIP 39K	5%	1/10W			R551	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	
R327	1-216-833-11	METAL CHIP 10K	5%	1/10W			R552	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	
R328	1-216-821-11	METAL CHIP 1K	5%	1/10W			R553	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	
R350	1-216-825-11	METAL CHIP 2.2K	5%	1/10W			R554	1-218-829-11	METAL CHIP	180	0.5%	1/10W	
R351	1-249-402-11	CARBON 56	5%	1/4W			R555	1-218-869-11	METAL CHIP	8.2K	0.5%	1/10W	
R352	1-249-401-11	CARBON 47	5%	1/4W			R556	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	
R353	1-216-841-11	METAL CHIP 47K	5%	1/10W			R557	1-218-823-11	METAL CHIP	100	0.5%	1/10W	
R354	1-216-832-11	METAL CHIP 8.2K	5%	1/10W			R558	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	
							R559	1-218-839-11	METAL CHIP	470	0.5%	1/10W	
							R600	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
							R601	1-216-833-11	METAL CHIP	10K	5%	1/10W	
							R602	1-216-833-11	METAL CHIP	10K	5%	1/10W	
							R603	1-216-833-11	METAL CHIP	10K	5%	1/10W	
							R604	1-216-833-11	METAL CHIP	10K	5%	1/10W	
							R605	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	

STR-DA1500ES

MAIN

POWER KEY

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R606	1-216-833-11	METAL CHIP	10K	5%	1/10W	R654	1-216-839-11	METAL CHIP	33K	5%	1/10W
R607	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R608	1-216-833-11	METAL CHIP	10K	5%	1/10W	R655	1-216-833-11	METAL CHIP	10K	5%	1/10W
R609	1-216-841-11	METAL CHIP	47K	5%	1/10W (AEP, UK)	R657	1-216-857-11	METAL CHIP	1M	5%	1/10W
						R658	1-216-833-11	METAL CHIP	10K	5%	1/10W
R610	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (AEP, UK)	R659	1-216-819-11	METAL CHIP	680	5%	1/10W
						R660	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R610	1-216-864-11	SHORT CHIP	0 (US CND)			R661	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R611	1-216-833-11	METAL CHIP	10K	5%	1/10W	R662	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R613	1-216-864-11	SHORT CHIP	0			R663	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R614	1-216-833-11	METAL CHIP	10K	5%	1/10W (US CND)	R664	1-216-809-11	METAL CHIP	100	5%	1/10W
						R665	1-216-809-11	METAL CHIP	100	5%	1/10W
R615	1-216-809-11	METAL CHIP	100	5%	1/10W (US CND)	R666	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R616	1-216-833-11	METAL CHIP	10K	5%	1/10W	R667	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R617	1-216-833-11	METAL CHIP	10K	5%	1/10W	R668	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R618	1-216-809-11	METAL CHIP	100	5%	1/10W (US CND)	R669	1-216-809-11	METAL CHIP	100	5%	1/10W
R619	1-216-833-11	METAL CHIP	10K	5%	1/10W	R670	1-216-809-11	METAL CHIP	100	5%	1/10W
R620	1-216-833-11	METAL CHIP	10K	5%	1/10W	R671	1-216-809-11	METAL CHIP	100	5%	1/10W
R621	1-216-809-11	METAL CHIP	100	5%	1/10W (US CND)	R672	1-216-809-11	METAL CHIP	100	5%	1/10W
R622	1-216-809-11	METAL CHIP	100	5%	1/10W	R673	1-216-809-11	METAL CHIP	100	5%	1/10W
R623	1-216-833-11	METAL CHIP	10K	5%	1/10W	R674	1-216-809-11	METAL CHIP	100	5%	1/10W
R624	1-216-809-11	METAL CHIP	100	5%	1/10W (US CND)	R675	1-216-833-11	METAL CHIP	10K	5%	1/10W
R625	1-216-809-11	METAL CHIP	100	5%	1/10W (US CND)	R676	1-216-809-11	METAL CHIP	100	5%	1/10W
R626	1-216-833-11	METAL CHIP	10K	5%	1/10W	R677	1-216-809-11	METAL CHIP	100	5%	1/10W
R627	1-216-809-11	METAL CHIP	100	5%	1/10W (US CND)	R678	1-216-809-11	METAL CHIP	100	5%	1/10W
R628	1-216-833-11	METAL CHIP	10K	5%	1/10W	R679	1-216-833-11	METAL CHIP	10K	5%	1/10W
R629	1-216-833-11	METAL CHIP	10K	5%	1/10W	R680	1-216-809-11	METAL CHIP	100	5%	1/10W
R630	1-216-809-11	METAL CHIP	100	5%	1/10W	R681	1-216-833-11	METAL CHIP	10K	5%	1/10W
R631	1-216-833-11	METAL CHIP	10K	5%	1/10W	R682	1-216-809-11	METAL CHIP	100	5%	1/10W
R632	1-216-833-11	METAL CHIP	10K	5%	1/10W	R683	1-216-833-11	METAL CHIP	10K	5%	1/10W
R633	1-216-801-11	METAL CHIP	22	5%	1/10W	R684	1-216-809-11	METAL CHIP	100	5%	1/10W
R634	1-216-809-11	METAL CHIP	100	5%	1/10W	R685	1-216-833-11	METAL CHIP	10K	5%	1/10W
R635	1-216-809-11	METAL CHIP	100	5%	1/10W	R686	1-216-809-11	METAL CHIP	100	5%	1/10W
R636	1-216-809-11	METAL CHIP	100	5%	1/10W (US CND)	R687	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R637	1-216-813-11	METAL CHIP	220	5%	1/10W (AEP, UK)	R701	1-216-821-11	METAL CHIP	1K	5%	1/10W
R638	1-216-813-11	METAL CHIP	220	5%	1/10W (AEP, UK)	R702	1-216-843-11	METAL CHIP	68K	5%	1/10W
R639	1-216-809-11	METAL CHIP	100	5%	1/10W (US CND)	R703	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R640	1-216-821-11	METAL CHIP	1K	5%	1/10W	R704	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R641	1-216-821-11	METAL CHIP	1K	5%	1/10W	R706	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R642	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (US CND)	R707	1-216-844-11	METAL CHIP	82K	5%	1/10W
R643	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (US CND)	R708	1-216-818-11	METAL CHIP	560	5%	1/10W
R644	1-216-809-11	METAL CHIP	100	5%	1/10W	R709	1-249-405-11	CARBON	100	5%	1/4W
R645	1-216-833-11	METAL CHIP	10K	5%	1/10W	R710	1-249-405-11	CARBON	100	5%	1/4W
R646	1-216-833-11	METAL CHIP	10K	5%	1/10W	R711	1-216-214-00	RES-CHIP	4.7K	2%	1/8W
R647	1-216-809-11	METAL CHIP	100	5%	1/10W	R712	1-240-855-91	CARBON	6.2K	5%	1/4W
R648	1-216-841-11	METAL CHIP	47K	5%	1/10W	R713	1-234-182-11	ENCAPSULATED COMPONENT			
R649	1-216-821-11	METAL CHIP	1K	5%	1/10W	R714	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R650	1-216-839-11	METAL CHIP	33K	5%	1/10W	R715	1-216-835-11	METAL CHIP	15K	5%	1/10W
R651	1-216-809-11	METAL CHIP	100	5%	1/10W	R716	1-216-843-11	METAL CHIP	68K	5%	1/10W
R652	1-216-809-11	METAL CHIP	100	5%	1/10W	R728	1-249-389-11	CARBON	4.7	5%	1/4W
R653	1-216-839-11	METAL CHIP	33K	5%	1/10W	R729	1-249-393-11	CARBON	10	5%	1/4W
						R730	1-216-841-11	METAL CHIP	47K	5%	1/10W
						R751	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R752	1-216-843-11	METAL CHIP	68K	5%	1/10W
						R753	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
						R754	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
						R756	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
						R757	1-216-844-11	METAL CHIP	82K	5%	1/10W
						R758	1-216-818-11	METAL CHIP	560	5%	1/10W
						R759	1-249-405-11	CARBON	100	5%	1/4W
						R760	1-249-405-11	CARBON	100	5%	1/4W

MAIN

POWER KEY

VIDEO CIS SPK

Ref. No.	Part No.	Description	Remark		
R761	1-216-214-00	RES-CHIP	4.7K	2%	1/8W
R762	1-240-855-91	CARBON	6.2K	5%	1/4W
R763	1-234-182-11	ENCAPSULATED COMPONENT			
R764	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R765	1-216-835-11	METAL CHIP	15K	5%	1/10W
R766	1-216-843-11	METAL CHIP	68K	5%	1/10W
R778	1-249-389-11	CARBON	4.7	5%	1/4W
R779	1-249-393-11	CARBON	10	5%	1/4W
R780	1-216-841-11	METAL CHIP	47K	5%	1/10W
R902	1-249-381-11	CARBON	1	5%	1/4W
R903	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R904	1-216-841-11	METAL CHIP	47K	5%	1/10W
R906	1-216-837-11	METAL CHIP	22K	5%	1/10W
R907	1-216-841-11	METAL CHIP	47K	5%	1/10W
R908	1-216-833-11	METAL CHIP	10K	5%	1/10W
R931	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R932	1-216-841-11	METAL CHIP	47K	5%	1/10W
R933	1-249-399-11	CARBON	33	5%	1/4W
R934	1-249-401-11	CARBON	47	5%	1/4W
R8153	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8157	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8163	1-216-864-11	SHORT CHIP	0		
RR11	1-249-393-11	CARBON	10	5%	1/4W (AEP, UK)
RR12	1-249-393-11	CARBON	10	5%	1/4W (AEP, UK)
RR13	1-249-393-11	CARBON	10	5%	1/4W (AEP, UK)
RR14	1-249-393-11	CARBON	10	5%	1/4W (AEP, UK)
< RELAY >					
RY350	1-515-921-11	RELAY			
RY355	1-515-921-11	RELAY			
RY360	1-755-416-12	RELAY			
RY365	1-755-486-11	RELAY			
RY901	1-755-541-11	RELAY			
RY930	1-755-593-11	RELAY			
< TRANSFORMER >					
T902	1-443-517-11	POWER TRANSFORMER (SUB) (AEP, UK)			
T902	1-445-635-11	POWER TRANSFORMER (SUB) (US CND)			
< VIBRATOR >					
X600	1-781-282-51	VIBRATOR, CERAMIC (4MHz)			

	A-1616-253-A	POWER KEY BOARD, COMPLETE *****			
< CAPACITOR >					
C001	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C002	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C003	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C004	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
< CONNECTOR >					
* CN003	1-691-406-11	CONNECTOR. BOARD TO BOARD 7P			

Ref. No.	Part No.	Description	Remark		
< RESISTOR >					
R133	1-216-819-11	METAL CHIP	680	5%	1/10W
R134	1-216-817-11	METAL CHIP	470	5%	1/10W
R135	1-216-821-11	METAL CHIP	1K	5%	1/10W
< VARIABLE RESISTOR >					
RV101	1-418-817-21	ENCODER, ROTARY (- TONE +)			
< SWITCH >					
S120	1-771-410-21	SWITCH, TACTILE (SPEAKERS (OFF/A/B/A+B))			
S153	1-771-410-21	SWITCH, TACTILE (I/O)			
S155	1-418-817-21	ENCODER, ROTARY (- TUNING +)			
S156	1-771-410-21	SWITCH, TACTILE (TUNING MODE)			
S157	1-771-410-21	SWITCH, TACTILE (TONE MODE)			

	A-1616-255-A	VIDEO CIS SPK BOARD, COMPLETE (US CND)			
	A-1616-279-A	VIDEO CIS SPK BOARD, COMPLETE (AEP, UK) *****			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
< CAPACITOR >					
C201	1-100-385-91	CERAMIC CHIP	0.47uF		25V
C202	1-100-385-91	CERAMIC CHIP	0.47uF		25V
C203	1-126-947-11	ELECT	47uF	20%	35V
C204	1-126-947-11	ELECT	47uF	20%	35V
C211	1-126-964-11	ELECT	10uF	20%	50V
C212	1-126-964-11	ELECT	10uF	20%	50V
C213	1-126-964-11	ELECT	10uF	20%	50V
C215	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C217	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C242	1-126-964-11	ELECT	10uF	20%	50V
C255	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C257	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C258	1-164-733-11	CERAMIC CHIP	820PF	10%	50V (US CND)
C259	1-164-733-11	CERAMIC CHIP	820PF	10%	50V (US CND)
C260	1-126-947-11	ELECT	47uF	20%	35V (US CND)
C261	1-126-947-11	ELECT	47uF	20%	35V (US CND)
C635	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C802	1-126-947-11	ELECT	47uF	20%	35V
C803	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C804	1-126-961-11	ELECT	2.2uF	20%	50V
C805	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C806	1-126-947-11	ELECT	47uF	20%	35V
C821	1-126-960-11	ELECT	1uF	20%	50V
C822	1-126-767-11	ELECT	1000uF	20%	16V
C823	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C864	1-126-933-11	ELECT	100uF	20%	16V
C865	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C866	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C867	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C868	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C869	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C870	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C913	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V (US CND)

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark				
C914	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V			< TRANSISTOR >						
C915	1-126-936-11	ELECT	3300uF	20%	16V	(US CND)	Q821	8-729-037-13	TRANSISTOR	KTA1271Y				
					(US CND)		Q822	8-729-027-43	TRANSISTOR	DTC114EKA-T146				
		< CONNECTOR >							< RESISTOR >					
CN001	1-821-182-11	SOCKET, DIN 8P (US CND)					R211	1-211-990-11	METAL CHIP	75	0.5%	1/10W		
* CN002	1-564-510-11	PLUG, CONNECTOR 7P (US CND)					R212	1-211-990-11	METAL CHIP	75	0.5%	1/10W		
		< CONNECTOR >						R213	1-211-990-11	METAL CHIP	75	0.5%	1/10W	
							R214	1-211-990-11	METAL CHIP	75	0.5%	1/10W		
							R215	1-211-990-11	METAL CHIP	75	0.5%	1/10W		
CNP001	1-785-106-11	PIN, CONNECTOR (3.96mm PITCH) 8P					R242	1-211-990-11	METAL CHIP	75	0.5%	1/10W		
* CNP242	1-564-506-11	PLUG, CONNECTOR 3P					R255	1-211-990-11	METAL CHIP	75	0.5%	1/10W		
		< CONNECTOR >						R256	1-216-809-11	METAL CHIP	100	5%	1/10W	
												(US CND)		
CNS271	1-573-825-11	CONNECTOR, BOARD TO BOARD 11P					R257	1-216-809-11	METAL CHIP	100	5%	1/10W		
CNS801	1-691-771-11	PLUG (MICRO CONNECTOR) 9P											(US CND)	
* CNS912	1-564-506-11	PLUG, CONNECTOR 3P (US CND)					R801	1-216-833-11	METAL CHIP	10K	5%	1/10W		
CNS913	1-564-517-11	PLUG, CONNECTOR 2P (US CND)												
		< DIODE >						R802	1-216-797-11	METAL CHIP	10	5%	1/10W	
							R803	1-216-845-11	METAL CHIP	100K	5%	1/10W		
D210	6-501-817-01	DIODE	MA2J1110GLS0				R804	1-216-833-11	METAL CHIP	10K	5%	1/10W		
D211	6-501-817-01	DIODE	MA2J1110GLS0				R805	1-216-845-11	METAL CHIP	100K	5%	1/10W		
D250	6-501-817-01	DIODE	MA2J1110GLS0				R806	1-216-809-11	METAL CHIP	100	5%	1/10W		
D251	6-501-817-01	DIODE	MA2J1110GLS0											
D801	6-501-817-01	DIODE	MA2J1110GLS0				R807	1-216-809-11	METAL CHIP	100	5%	1/10W		
							R821	1-216-833-11	METAL CHIP	10K	5%	1/10W		
D802	8-719-075-86	DIODE	SID307BRTP19				R822	1-216-833-11	METAL CHIP	10K	5%	1/10W		
D803	6-501-817-01	DIODE	MA2J1110GLS0				R823	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		
D914	8-719-053-18	DIODE	1SR154-400TE-25 (US CND)				R825	1-216-809-11	METAL CHIP	100	5%	1/10W		
D915	8-719-053-18	DIODE	1SR154-400TE-25 (US CND)											
D916	8-719-053-18	DIODE	1SR154-400TE-25 (US CND)				R861	1-216-809-11	METAL CHIP	100	5%	1/10W		
							R862	1-216-809-11	METAL CHIP	100	5%	1/10W		
D917	8-719-053-18	DIODE	1SR154-400TE-25 (US CND)				R863	1-216-864-11	SHORT CHIP	0				
							R864	1-216-864-11	SHORT CHIP	0				
							R865	1-216-833-11	METAL CHIP	10K	5%	1/10W		
		< FERRITE BEAD >												
FB861	1-469-152-11	FERRITE, EMI (SMD) (2012)					R866	1-216-833-11	METAL CHIP	10K	5%	1/10W		
		< FUSE >						R867	1-216-809-11	METAL CHIP	100	5%	1/10W	
							R869	1-216-809-11	METAL CHIP	100	5%	1/10W		
F911	1-523-084-11	FUSE (2AL/250V) (US CND)						< SWITCH >						
		< IC >						S002	1-571-478-11	SWITCH, SLIDE (SERVICE ONLY)				
								< TERMINAL >						
IC201	6-709-797-01	IC	TA7805AF-(T6L1SONQ)				TB001	1-780-404-11	TERMINAL BOARD (SP) (8P) (SPEAKER)					
IC202	6-711-998-01	IC	KIA7905PI					< THERMISTOR >						
IC210	6-704-199-01	IC	NJM2595M-TE2					*****						
IC250	6-704-199-01	IC	NJM2595M-TE2				TH821	1-801-726-11	THERMISTOR, POSITIVE					
IC603	6-713-034-01	IC	KIA7812API-U/PF					< JACK >						
IC801	6-600-349-21	IC	NJL23H400A					< CAPACITOR >						
IC802	6-700-587-01	IC	TC7W53F (TE12R)				C101	1-112-791-11	ELECT CHIP	100uF	20%	16V		
IC861	6-705-514-01	IC	MAX3222IPWR				C102	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V		
							C103	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		
							C104	1-128-991-21	ELECT CHIP	10uF	20%	50V		
							C105	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		
J211	1-794-978-11	JACK, PIN 3P												
		(SAT VIDEO IN, BD/DVD VIDEO IN, VIDEO VIDEO OUT)												
J212	1-794-978-11	JACK, PIN 3P												
		(VIDEO VIDEO IN, ZONE 2 VIDEO OUT, MONITOR VIDEO OUT)												
J801	1-563-330-31	JACK (IR REMOTE OUT)												
J802	1-563-330-31	JACK (IR REMOTE IN)					C106	1-112-692-11	CERAMIC CHIP	1000PF	5%	50V		
J821	1-563-330-31	JACK (TRIGGER OUT MAIN)					C107	1-112-692-11	CERAMIC CHIP	1000PF	5%	50V		
							C108	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		
J861	1-815-737-11	CONNECTOR, (D) SUB 9P (RS-232C)					C109	1-112-692-11	CERAMIC CHIP	1000PF	5%	50V		
							C110	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
C111	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		IC102	6-709-251-01	IC F2602E-01-TR				
C113	1-128-991-21	ELECT CHIP	10uF	20%	50V		IC104	8-759-710-97	IC NJM4565M-D				
C116	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		IC105	6-707-111-01	IC PCM1753DBQR				
C118	1-164-936-11	CERAMIC CHIP	680PF	10%	50V		IC106	6-706-740-01	IC BA00BC0WFP-E2				
C119	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V								
							IC107	6-705-469-01	IC BA50BC0FP-E2				
C120	1-164-942-11	CERAMIC CHIP	0.0068uF	10%	16V								
C121	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V				< JACK >				
C122	1-128-991-21	ELECT CHIP	10uF	20%	50V								
C123	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		J101	1-793-642-21	CONNECTOR (USB) (4P), SQUARE (XM)				
C124	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V				< COIL >				
C125	1-128-991-21	ELECT CHIP	10uF	20%	50V								
C126	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		L101	1-216-295-91	SHORT CHIP	0			
C127	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		L102	1-216-295-91	SHORT CHIP	0			
C128	1-164-942-11	CERAMIC CHIP	0.0068uF	10%	16V								
C129	1-164-936-11	CERAMIC CHIP	680PF	10%	50V				< TRANSISTOR >				
C130	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		Q105	8-729-027-46	TRANSISTOR	DTC114YKA-T146			
C131	1-164-858-11	CERAMIC CHIP	22PF	5%	50V		Q106	6-550-044-01	TRANSISTOR	2SB1689-T106			
C132	1-164-858-11	CERAMIC CHIP	22PF	5%	50V								
C133	1-164-858-11	CERAMIC CHIP	22PF	5%	50V				< RESISTOR >				
C134	1-164-858-11	CERAMIC CHIP	22PF	5%	50V								
							R101	1-216-845-11	METAL CHIP	100K	5%	1/10W	
C135	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V		R102	1-216-845-11	METAL CHIP	100K	5%	1/10W	
C136	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		R103	1-216-833-11	METAL CHIP	10K	5%	1/10W	
C137	1-128-991-21	ELECT CHIP	10uF	20%	50V		R104	1-216-833-11	METAL CHIP	10K	5%	1/10W	
C138	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		R107	1-216-809-11	METAL CHIP	100	5%	1/10W	
C139	1-128-991-21	ELECT CHIP	10uF	20%	50V								
							R108	1-216-809-11	METAL CHIP	100	5%	1/10W	
C140	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		R109	1-216-841-11	METAL CHIP	47K	5%	1/10W	
C142	1-128-991-21	ELECT CHIP	10uF	20%	50V		R110	1-216-809-11	METAL CHIP	100	5%	1/10W	
C143	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		R112	1-216-833-11	METAL CHIP	10K	5%	1/10W	
C144	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		R115	1-216-833-11	METAL CHIP	10K	5%	1/10W	
C145	1-117-681-11	ELECT CHIP	100uF	20%	16V								
							R116	1-216-833-11	METAL CHIP	10K	5%	1/10W	
C153	1-117-681-11	ELECT CHIP	100uF	20%	16V		R117	1-216-809-11	METAL CHIP	100	5%	1/10W	
C157	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V		R118	1-216-841-11	METAL CHIP	47K	5%	1/10W	
C159	1-112-791-11	ELECT CHIP	100uF	20%	16V		R119	1-216-841-11	METAL CHIP	47K	5%	1/10W	
C161	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V		R120	1-216-834-11	METAL CHIP	12K	5%	1/10W	
C163	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V								
							R121	1-216-841-11	METAL CHIP	47K	5%	1/10W	
C164	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		R122	1-216-841-11	METAL CHIP	47K	5%	1/10W	
C165	1-164-845-11	CERAMIC CHIP	5PF	0.25PF	50V		R123	1-216-819-11	METAL CHIP	680	5%	1/10W	
C166	1-164-845-11	CERAMIC CHIP	5PF	0.25PF	50V		R124	1-216-832-11	METAL CHIP	8.2K	5%	1/10W	
C174	1-164-874-11	CERAMIC CHIP	100PF	5%	50V		R125	1-216-813-11	METAL CHIP	220	5%	1/10W	
C175	1-164-874-11	CERAMIC CHIP	100PF	5%	50V								
							R126	1-216-845-11	METAL CHIP	100K	5%	1/10W	
C176	1-164-874-11	CERAMIC CHIP	100PF	5%	50V		R127	1-216-809-11	METAL CHIP	100	5%	1/10W	
							R128	1-216-845-11	METAL CHIP	100K	5%	1/10W	
		< CONNECTOR >											
CN101	1-785-466-41	CONNECTOR, FFC/FPC 7P											
CN102	1-779-993-11	PIN, CONNECTOR (PWB) 5P											
							R129	1-216-809-11	METAL CHIP	100	5%	1/10W	
		< CONNECTOR >											
							R130	1-216-809-11	METAL CHIP	100	5%	1/10W	
CNP103	1-774-730-21	PIN, CONNECTOR (PC BOARD) 3P											
							R131	1-216-809-11	METAL CHIP	100	5%	1/10W	
		< DIODE >											
							R132	1-216-832-11	METAL CHIP	8.2K	5%	1/10W	
D101	6-500-462-01	DIODE NSAD500F-T1B											
D103	8-719-083-02	DIODE KDS160-RTK											
							R133	1-216-819-11	METAL CHIP	680	5%	1/10W	
		< FERRITE BEAD >											
							R134	1-216-809-11	METAL CHIP	100	5%	1/10W	
FB101	1-469-152-11	FERRITE, EMI (SMD) (2012)											
FB104	1-469-152-11	FERRITE, EMI (SMD) (2012)											
							R137	1-216-834-11	METAL CHIP	12K	5%	1/10W	
		< IC >											
							R138	1-216-821-11	METAL CHIP	1K	5%	1/10W	
IC101	6-705-468-01	IC BA33BC0FP-E2											
							R143	1-216-809-11	METAL CHIP	100	5%	1/10W	
							R144	1-216-821-11	METAL CHIP	1K	5%	1/10W	
							R145	1-216-841-11	METAL CHIP	47K	5%	1/10W	
							R146	1-216-841-11	METAL CHIP	47K	5%	1/10W	
							R147	1-216-833-11	METAL CHIP	10K	5%	1/10W	
							R156	1-216-811-11	METAL CHIP	150	5%	1/10W	
							R158	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
							R162	1-216-845-11	METAL CHIP	100K	5%	1/10W	
							R163	1-216-851-11	METAL CHIP	330K	5%	1/10W	
							R174	1-216-819-11	METAL CHIP	680	5%	1/10W	

STR-DA1500ES

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R176	1-216-833-11	METAL CHIP	10K 5% 1/10W				
		< VIBRATOR >					
X101	1-760-841-11	VIBRATOR, CRYSTAL (45.1584MHz)					

		MISCELLANEOUS					

104	1-828-311-51	WIRE (FLAT TYPE) (9 CORE)					
105	1-824-964-13	CORD, POWER (US, CND)					
105	1-831-474-11	CORD, POWER (AEP)					
105	1-833-794-11	CORD, POWER (UK)					
106	1-828-301-51	WIRE (FLAT TYPE) (7 CORE) (US, CND)					
107	1-828-955-11	WIRE (FLAT TYPE) (9 CORE) (US, CND)					
107	1-827-720-11	WIRE (FLAT TYPE) (11 CORE) (AEP, UK)					
FL101	1-483-065-11	VACUUM FLUORESCENT DISPLAY					
TN1	1-693-728-31	TUNER (FM/AM) (US, CND)					
TN1	1-693-737-21	TUNER (FM/AM) (AEP, UK)					
F901	1-532-464-33	FUSE (T2.5AL/250V) (AEP, UK)					
F901	1-533-454-12	FUSE, GLASS TUBE (DIA. 5) (6.3A/125V) (US, CND)					
T901	1-445-619-21	POWER TRANSFORMER (US, CND)					
T901	1-445-620-21	POWER TRANSFORMER (AEP, UK)					
Q703	6-702-390-01	IC MN2488-OPY-MK					
Q704	6-702-391-01	IC MP1620-OPY-MK					
Q753	6-702-390-01	IC MN2488-OPY-MK					
Q754	6-702-391-01	IC MP1620-OPY-MK					

		ACCESSORIES					

	1-487-348-11	REMOTE COMMANDER, RM-AAU056 (including BATTERT LID)					
	1-501-374-12	ANTENNA, LOOP (AM)					
	1-501-807-12	ANTENNA (FM) (AEP, UK)					
	1-793-184-23	CONNECTOR (F TYPE ADAPTOR) (US, CND)					
	4-129-743-11	INSTRUCTION MANUAL (ENGLISH) (US, CND)					
	4-129-743-21	INSTRUCTION MANUAL (FRENCH) (US, CND)					
	4-129-743-31	INSTRUCTION MANUAL (SPANISH) (US, CND)					
	4-129-743-41	INSTRUCTION MANUAL (ENGLISH) (AEP, UK)					
	4-129-743-51	INSTRUCTION MANUAL (FRENCH) (AEP)					
	4-129-743-61	INSTRUCTION MANUAL (SPANISH) (AEP)					
	4-129-743-71	INSTRUCTION MANUAL (GERMAN, DUTCH, SWEDISH) (AEP)					
	4-129-743-81	INSTRUCTION MANUAL (ITALIAN, POLISH) (AEP)					
	4-129-744-11	INSTRUCTION MANUAL (DANISH, FINNISH) (AEP)					
	4-129-744-21	INSTRUCTION MANUAL (PORTUGUESE) (AEP)					
	4-129-744-31	INSTRUCTION MANUAL (RUSSIAN) (AEP)					
	4-129-744-41	INSTRUCTION MANUAL (GREEK) (AEP)					
	4-129-744-51	INSTRUCTION MANUAL (TURKISH) (AEP)					
	4-129-744-61	INSTRUCTION MANUAL (HUNGARIAN, CZECH) (AEP)					
	4-129-744-71	INSTRUCTION MANUAL (SLOVAKIAN) (AEP)					

REVISION HISTORY

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