STR-DH100

SERVICE MANUAL

Ver. 1.0 2009.02

US Model
Canadian Model
AEP Model
UK Model

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
(Models of area code US only)

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

Amplifier section

Models of area code US, CND, AEP, UK[1])
Minimum RMS Output Power (8 ohms, 20 Hz – 20 kHz, THD 0.09%)
90 W + 90 W
Stereo Mode Output Power (8 ohms, 1 kHz, THD 1%)
100 W + 100 W

[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 (Analog)
10 Hz – 70 kHz
+0.5/–2 dB (with BASS = 0 dB, TREBLE = 0 dB)
Inputs (Analog) Sensitivity: 500 mV/ 50 kohms
S/N[2]): 96 dB (A, 500 mV3))
Outputs (Analog)
AUDIO OUT Voltage: 500 mV/10 kohms
Tone
Gain levels ±10 dB, 1 dB step
2)INPUT SHORT (with BASS = 0 dB, TREBLE = 0 dB).
3)Weighted network, input level.

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

– Continued on next page –

FM STEREO / FM-AM RECEIVER

9-890-511-01
2009B08-1

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

SONY®

AM tuner section

Tuning range

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

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 consumption
US, CND, AEP, UK	200 W

Dimensions (w/h/d) (Approx.) 430 × 132.5 × 279 mm (17 × 5 1/4 × 11 inches) including projecting parts and controls

Mass (Approx.) 6.6 kg (14 lb 9 oz)

Supplied accessories

Operating Instruction (1)
Quick Setup Guide (1)
FM wire antenna (aerial) (1)
AM loop antenna (aerial) (1)
Remote commander (RM-AAU055) (1)
R6 (size-AA) batteries (2)

Design and specifications are subject to change without notice.

- Standby power consumption: 0.3 W
- 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-63T rd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

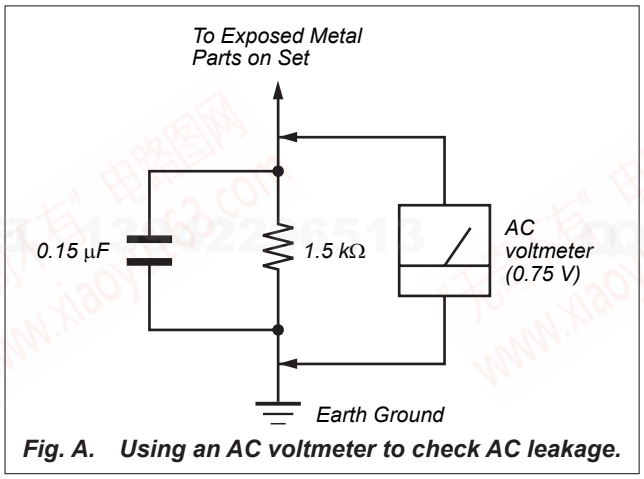

Fig. A. Using an AC voltmeter to check AC leakage.

MODEL IDENTIFICATION –BACK PANEL–

Model	Part No.
US	4-124-568-0□
Canadian	4-124-568-1□
AEP, UK	4-124-568-2□

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)

: 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 COMPONET WARNING!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY P ARTS WHOSE P ART 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 ⚠ SUR LES DIAGRAMMES SCHÉMA TIQUES 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 DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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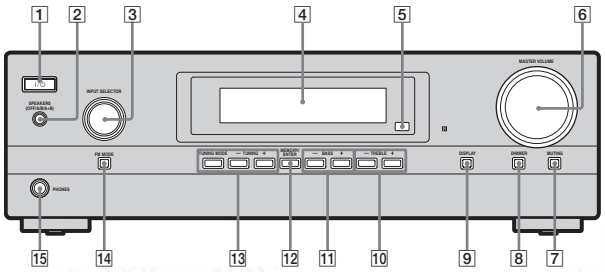
SECTION 1
GENERAL

This section is extracted from instruction manual.

Description and location of parts

Front panel

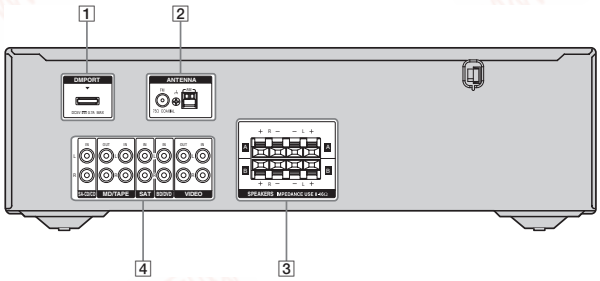


About the indicators on the display

	Name	Function
1	**I/⏻ (on/standby)**	Press to turn the receiver on or off (page 16).
2	**SPEAKERS (OFF/A/B/A+B)**	Switch to OFF, A, B, A+B of the speakers (page 17).
3	**INPUT SELECTOR**	Turn to select the input source to play back (page 18, 19, 22, 24, 28).
4	**Display**	The current status of the selected component or a list of selectable items appears here (page 6).
5	**Remote sensor**	Receives signals from remote commander.
6	**MASTER VOLUME**	Turn to adjust the volume level of all speakers at the same time (page 18).
7	**MUTING**	Press to turn off the sound temporarily. Press MUTING again to restore the sound (page 19).
8	**DIMMER**	Press repeatedly to adjust the brightness of the display.
9	**DISPLAY**	Press repeatedly to select information displayed on the display (page 26, 27).
10	**TREBLE +/–**	Press repeatedly to adjust the treble level of the speakers (page 21).
11	**BASS +/–**	Press repeatedly to adjust the bass level of the speakers (page 21).
12	**MEMORY/ ENTER**	Press to store a station or enter the selection when selecting the settings (page 22, 24).
13	**TUNING MODE**	Press to operate the tuner (FM/AM) (page 21).
	TUNING +/–	
14	**FM MODE**	Press to select the FM monaural or stereo reception (page 22).
15	**PHONES jack**	Connects to headphones (page 31).

	Name	Function
16	**SP A/SP B**	Lights up according to the speaker system used (page 17). However, these indicators do not light up if the speaker output is turned off or if headphones are connected.
17	**SLEEP**	Lights up when the sleep timer is activated (page 27).
18	**Tuning indicators**	Lights up when using the receiver to tune in radio stations (page 21), etc.
	MEMORY	A memory function, such as Preset Memory (page 23), etc., is activated.
	RDS	A station that provides RDS service is tuned in. **Note** "RDS" appears for models of area code AEP, UK only.
	MONO	Monaural broadcast
	ST	Stereo broadcast
	[ ]	A preset station number appears when the preset radio station is selected. **Note** The preset station number will change according to the preset station you select. For details on presetting radio stations, see page 23.

Rear panel



1 DMPORT

▼	DMPORT jack	Connects to a DIGITAL MEDIA PORT adapter (page 13).

2 ANTENNA section

	FM ANTENNA jack	Connects to the FM wire antenna (aerial) supplied with this receiver (page 15).
	AM ANTENNA terminals	Connects to the AM loop antenna (aerial) supplied with this receiver (page 15).

3 SPEAKERS section

– +		Connects to speakers (page 12).

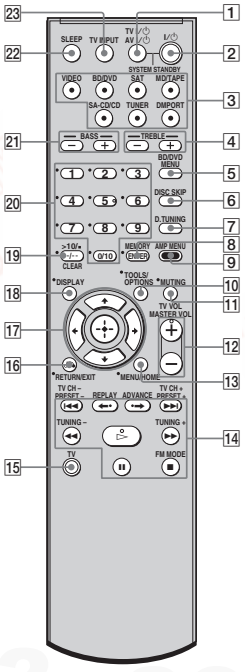
4 AUDIO INPUT/OUTPUT section

White (L)	AUDIO IN/ OUT jacks	Connects to a Super Audio CD player, CD player, etc. (page 13).
Red (R)		

Remote commander

You can use the supplied remote to operate the receiver and to control the Sony audio/video components that the remote is assigned to operate (page 28).

RM-AAU055



	Name	Function
1	**TV I/⏻ (on/standby)**	Press TV **I/⏻** and TV (15) 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 28). If you press **I/⏻** (2) at the same time, it will turn off the receiver and other 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. To turn off all components, press **I/⏻** and AV **I/⏻** (1) at the same time (SYSTEM STANDBY).
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 28.
4	**TREBLE +/–**	Press repeatedly to adjust the treble level of the speakers.
5	**BD/DVD MENU**	Press to display the menu of the DVD or Blu-ray disc on the TV screen. Then, use ↑, ↓, ←, → and ⊕ (17) to perform menu operations.
6	**DISC SKIP**	Press to skip a disc when using a multi-disc changer.
7	**D.TUNING**	Press to enter direct tuning mode.

continued

Name	Function
8 **MEMORY**	Press to store a station during tuner operation.
ENTER	Press to enter the value after selecting a channel, disc or track using the numeric buttons of the TV, VCR, CD player, DVD recorder, DVD player or satellite tuner.
9 **AMP MENU**	Press to display the menu of the receiver. Then, use ↑, ↓, ←, → and ⊕ (17) to perform menu operations.
10 **TOOLS/ OPTIONS**	Press to display and select items from option menus of the DVD player or Blu-ray disc player. Press TOOLS/OPTIONS and TV (15) at the same time to display options applicable to the Sony TV.
11 **MUTING**	Press to turn off the sound temporarily. Press MUTING again to restore the sound. Press MUTING and TV (15) at the same time to activate the TV's muting function.
12 **TV VOL +[a)]/–**	Press TV VOL +/– and TV (15) at the same time to adjust the TV volume level.
MASTER VOL +[a)]/–	Press to adjust the volume level of all speakers at the same time.
13 **MENU/HOME**	Press to display the menu used to operate audio/video components. Press MENU/HOME and TV (15) at the same time to display the TV's menu. Then, use ↑, ↓, ←, → and ⊕ (17) to perform menu operations.
14 **I◄◄ /►►I[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.

Name	Function
◄◄/►►[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.
❚❚[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.
FM MODE	Press to select the FM monaural or stereo reception.
TV CH +/–	Press TV CH +/– and TV (15) 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.
15 **TV**	Press TV and the button with orange printing at the same time to enable TV operation.

Name	Function
16 **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 (15) 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.
17 **⊕, ↑/↓/←/→**	After pressing BD/DVD MENU (5), AMP MENU (9) or MENU/HOME (13), 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.
18 **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 (15) at the same time to display TV's information on the TV screen.
19 **-/--**	Press to select the channel entry mode, either one or two digit of the VCR. Press -/-- and TV (15) 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
20 **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 (15) at the same time to select the TV channels.
21 **BASS +/–**	Press repeatedly to adjust the bass level of the speakers.
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 (15) at the same time to select the input signal (TV input or video input).

[a)] The number 5, MASTER VOL +, TV VOL +, and ▻ buttons have tactile dots. Use the tactile dots as references when operating the receiver.

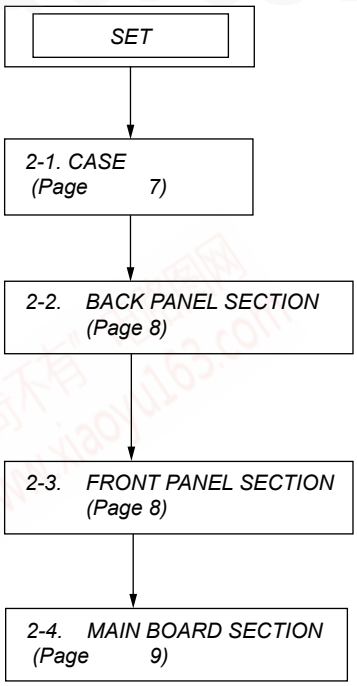
[b)] This button is also available for DIGITAL MEDIA PORT adapter operation. For details on the function of the button, see the operating instructions supplied with the DIGITAL MEDIA PORT adapter.

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.

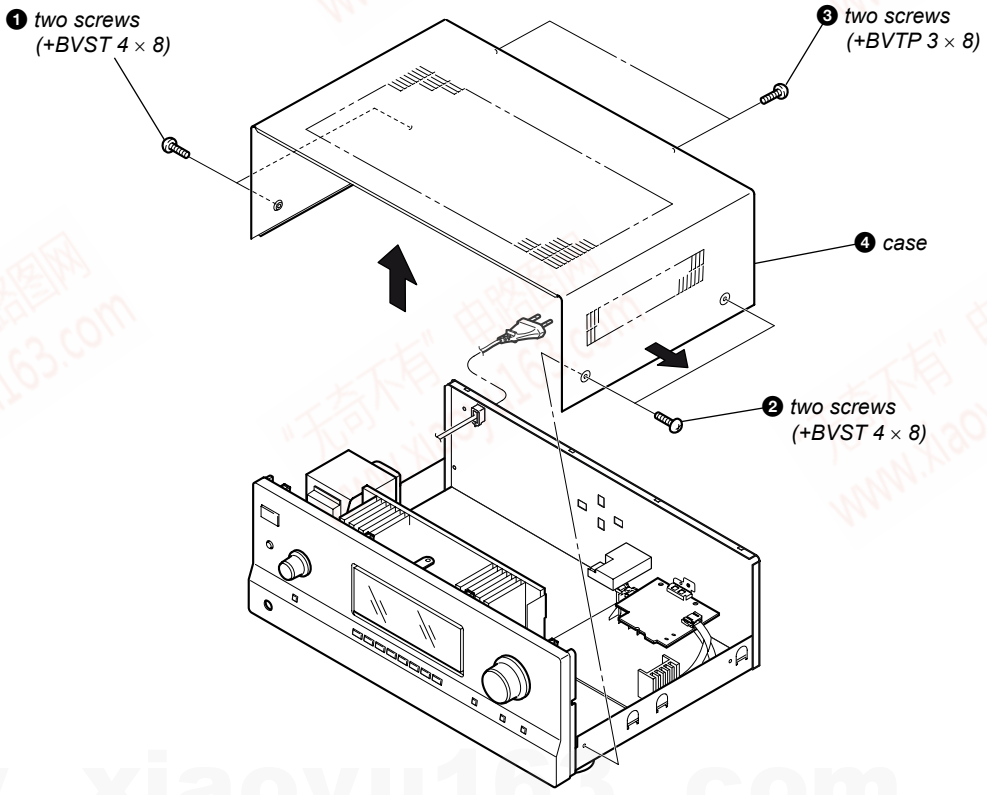
SECTION 2
DISASSEMBLY

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

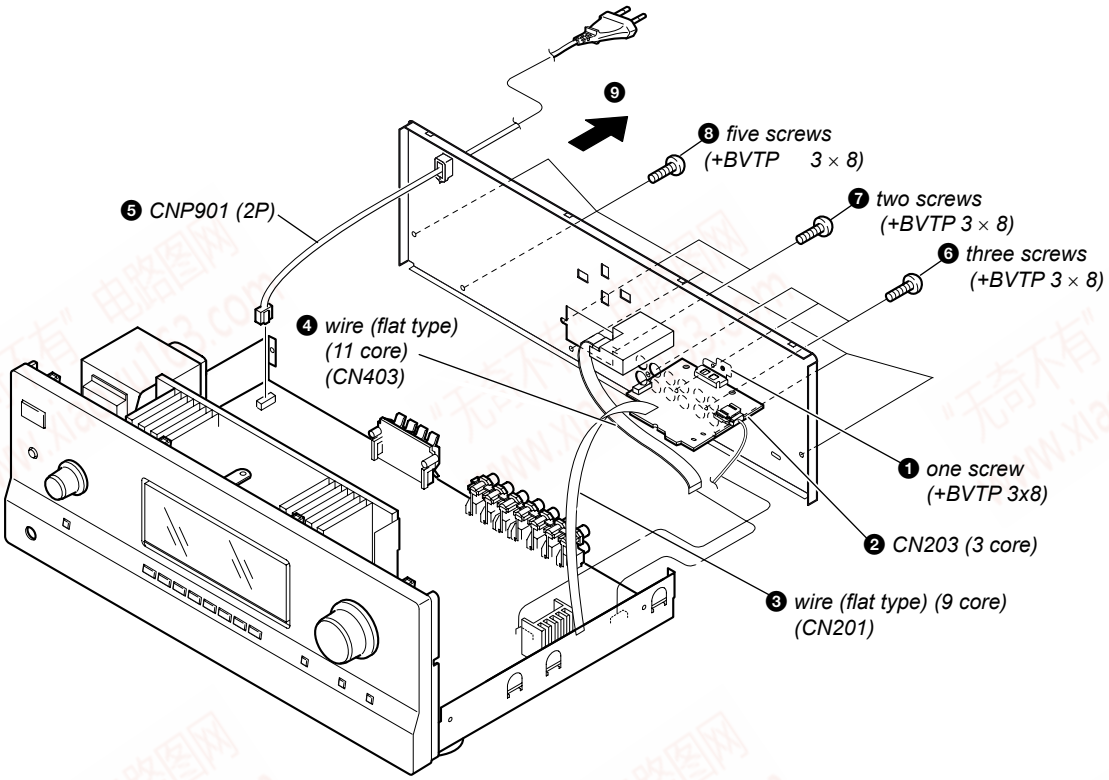


Note: Follow the disassembly procedure in the numerical order given.

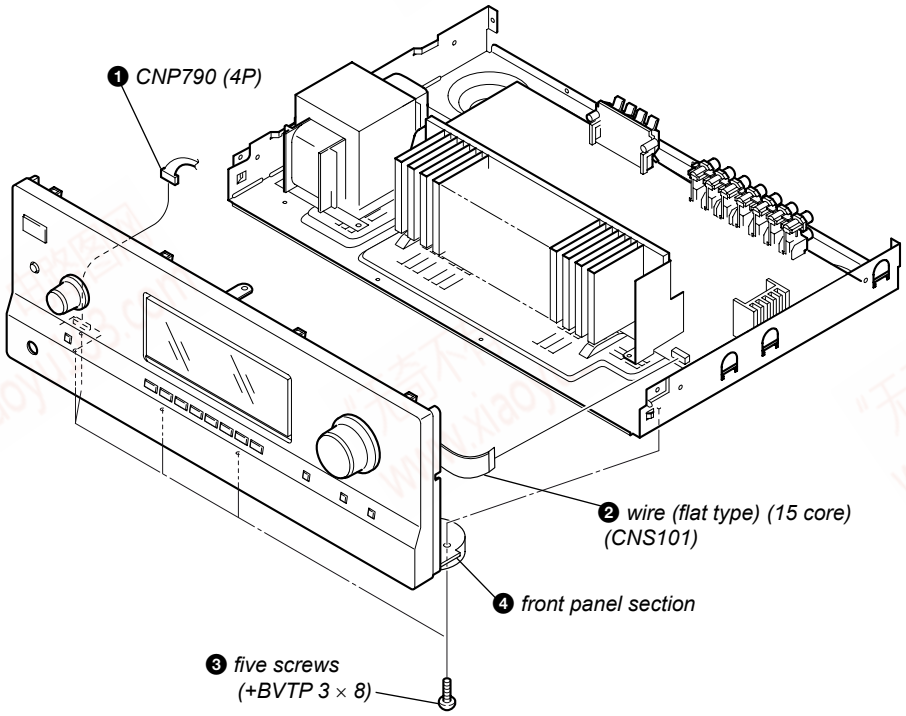
2-1. CASE



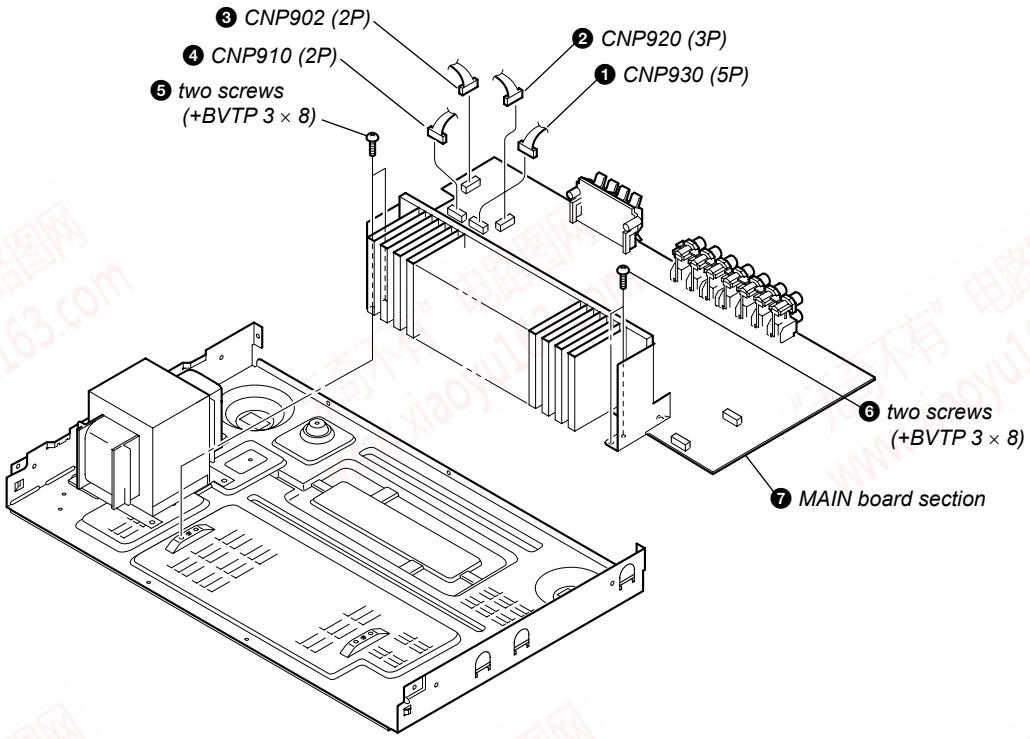
2-2. BACK PANEL SECTION



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)

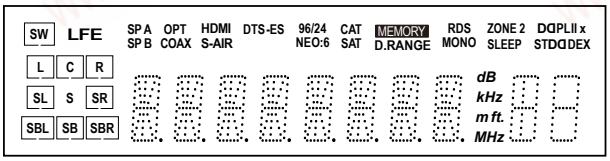
* Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.
* Procedure:

1. While depressing the [TUNING MODE] 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.

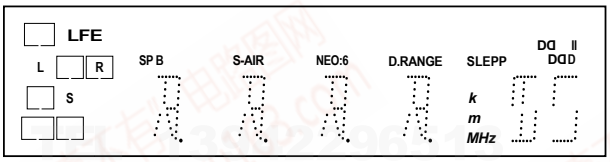
VACUUM FLUORESCENT DISPLAY TEST MODE

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

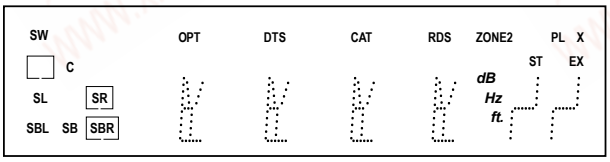
1. ALL segments light on.



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



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



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

SOFTWARE VERSION DISPLAY MODE

* The software version is displayed.
* Procedure:

1. While depressing the [SPEAKERS (OFF/A/B/A+B)] and the [MUTING] buttons simultaneously, press the [I/⏻] button to turn on the main power.
2. The model name, destination and the software version are dis played for a moment.

KEY CHECK MODE

* Button check
* Procedure:

1. While depressing the [SPEAKERS (OFF/A/B/A+B)] and the [DIMMER] buttons simultaneously, press the [I/⏻] button to turn on the main power.
2. Either the message “REST 13” 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 [TUNING MODE] and the [MUTING] buttons simultaneously, press the power [I/⏻] button to turn on the main power.
2. “CLEARED” appears and switch off the set.

RE-BOX CLASSIFICATION TEST MODE

* Procedure:

1. While pressing the [FM MODE] and the [DISPLA Y] buttons simultaneously, press the power [I/⏻] button to turn on the main power.
2. “R.Bxx” appears.
3. xx indicates number of times set powered on.
4. Press any button or power off the set to release test mode.

HISTORY MODE

The state that the set is used is memorized.

* Procedure:

1. While pressing the [TREBLE +] and [SPEAKERS (OFF/A/B/A+B)] 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 swithed 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
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
HP ON/OFF	HP xxx

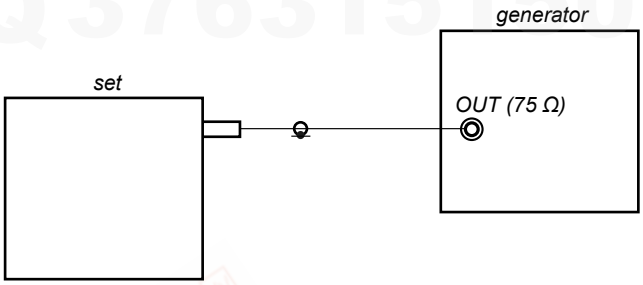
PROTECTOR AUTO OF

* Procedure:

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

SECTION 4
FM TUNER CHECK

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)

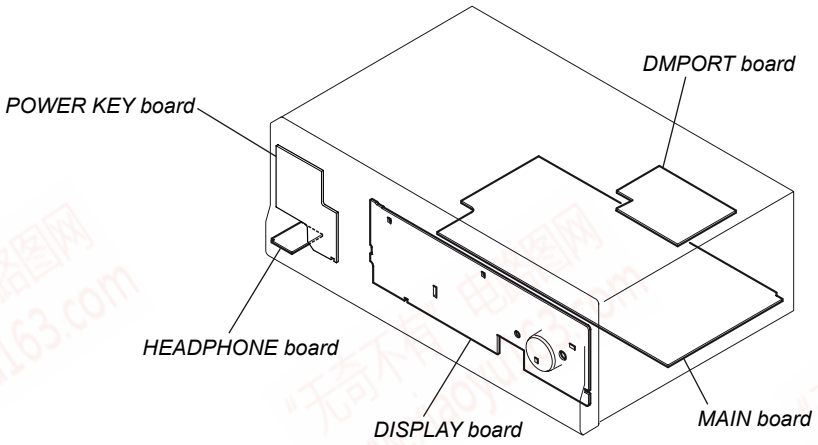
Note:
Please use 75 ohm “coaxial cable” to connect SG and the set. You cannot use video cable for checking.
Please use SG whose output impedance is 75 ohm.

3. Set to FM tuner function and scan the input FM signal with automatic scanning.
4. Con firm 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.”

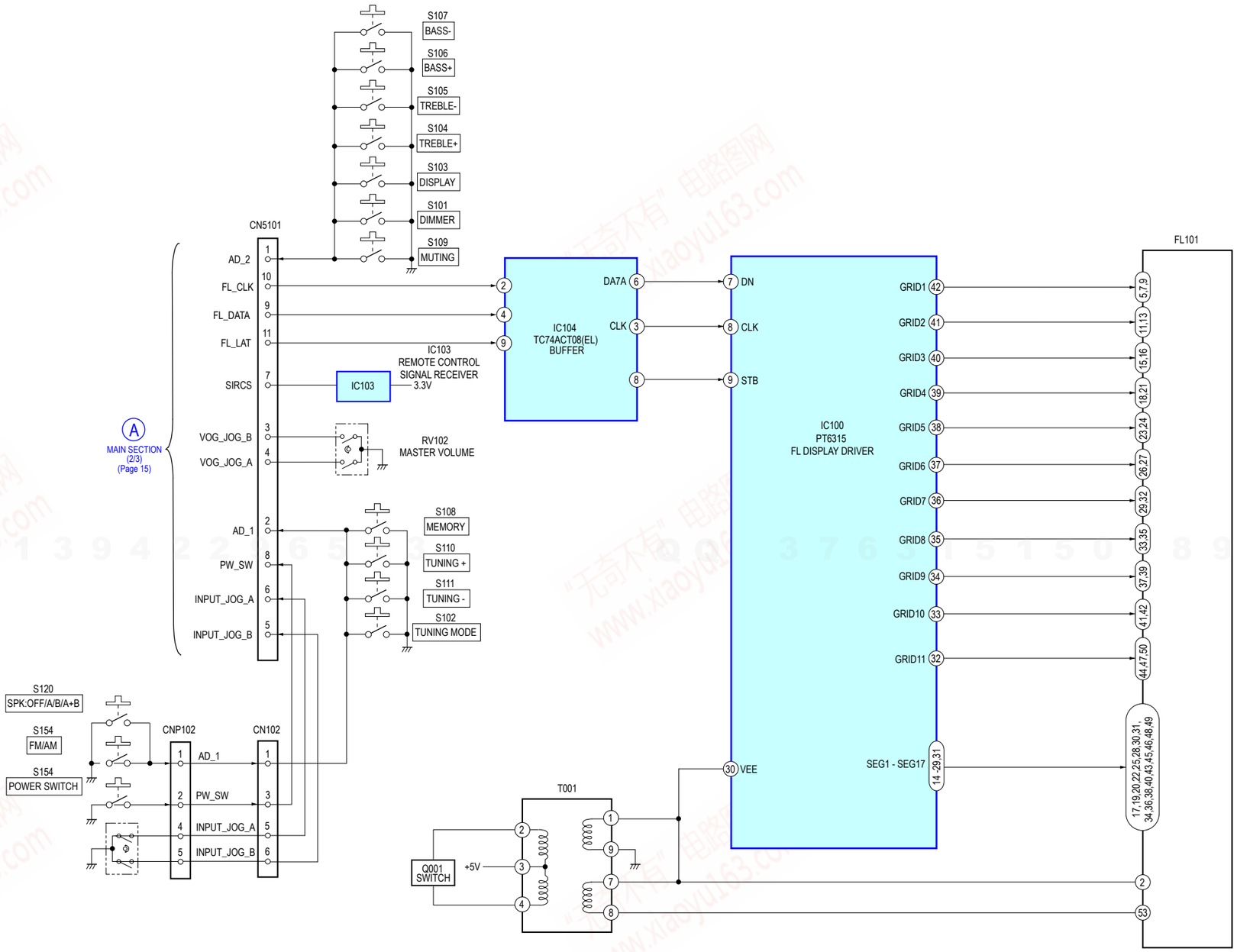
SECTION 5
DIAGRAMS

• **Circuit Boards Location**

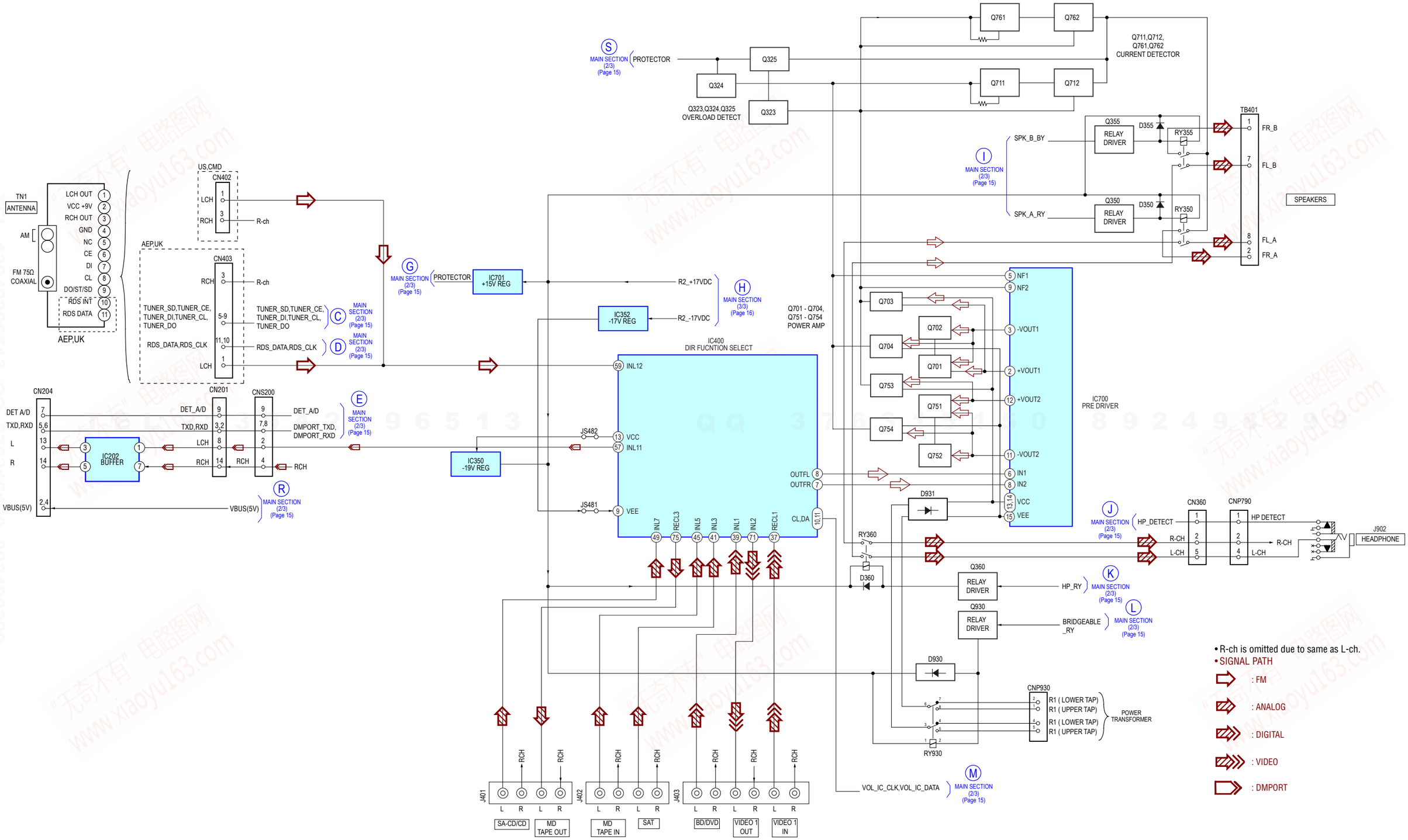


SECTION 5
DIAGRAMS

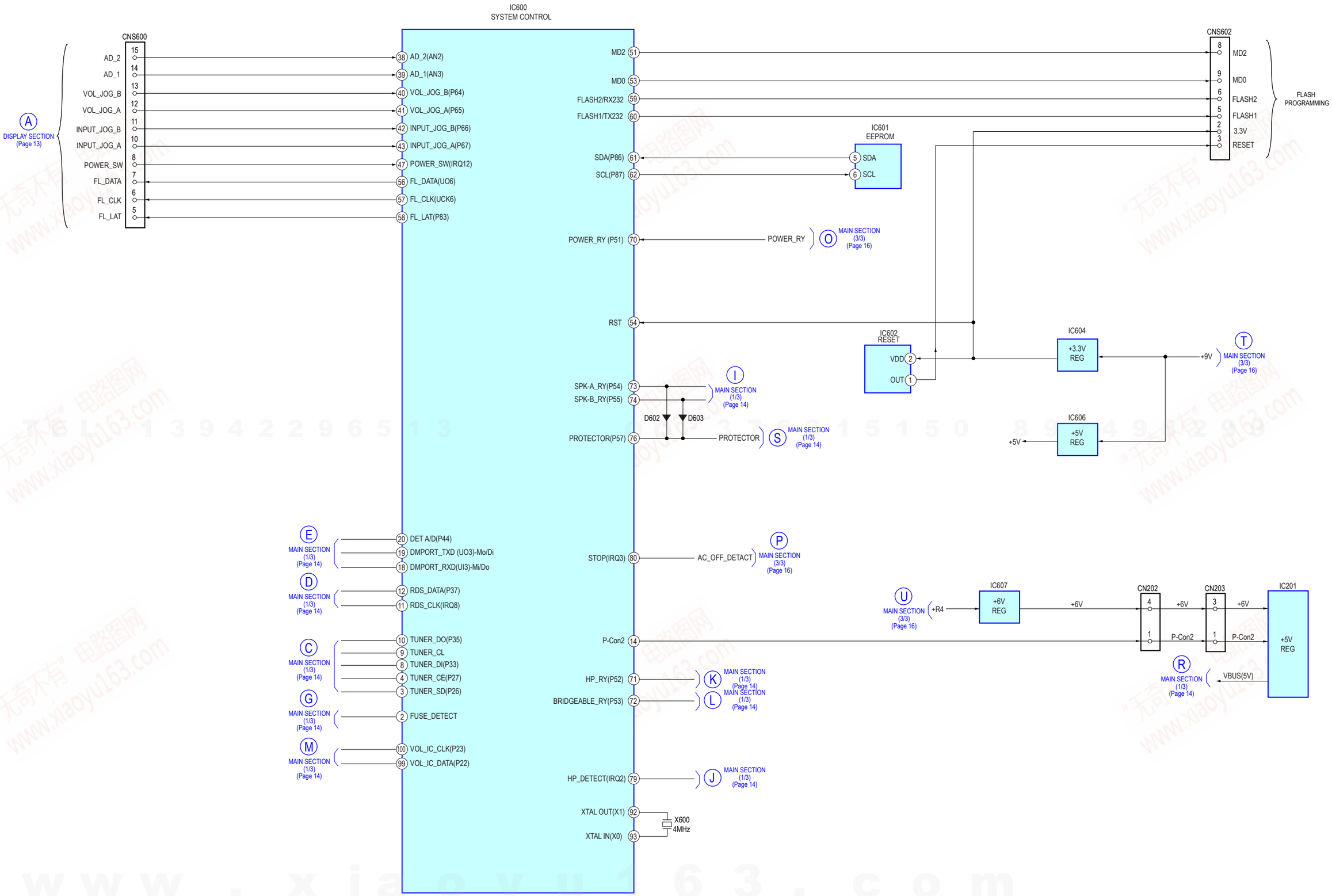
5-1. BLOCK DIAGRAM — DISPLAY SECTION —



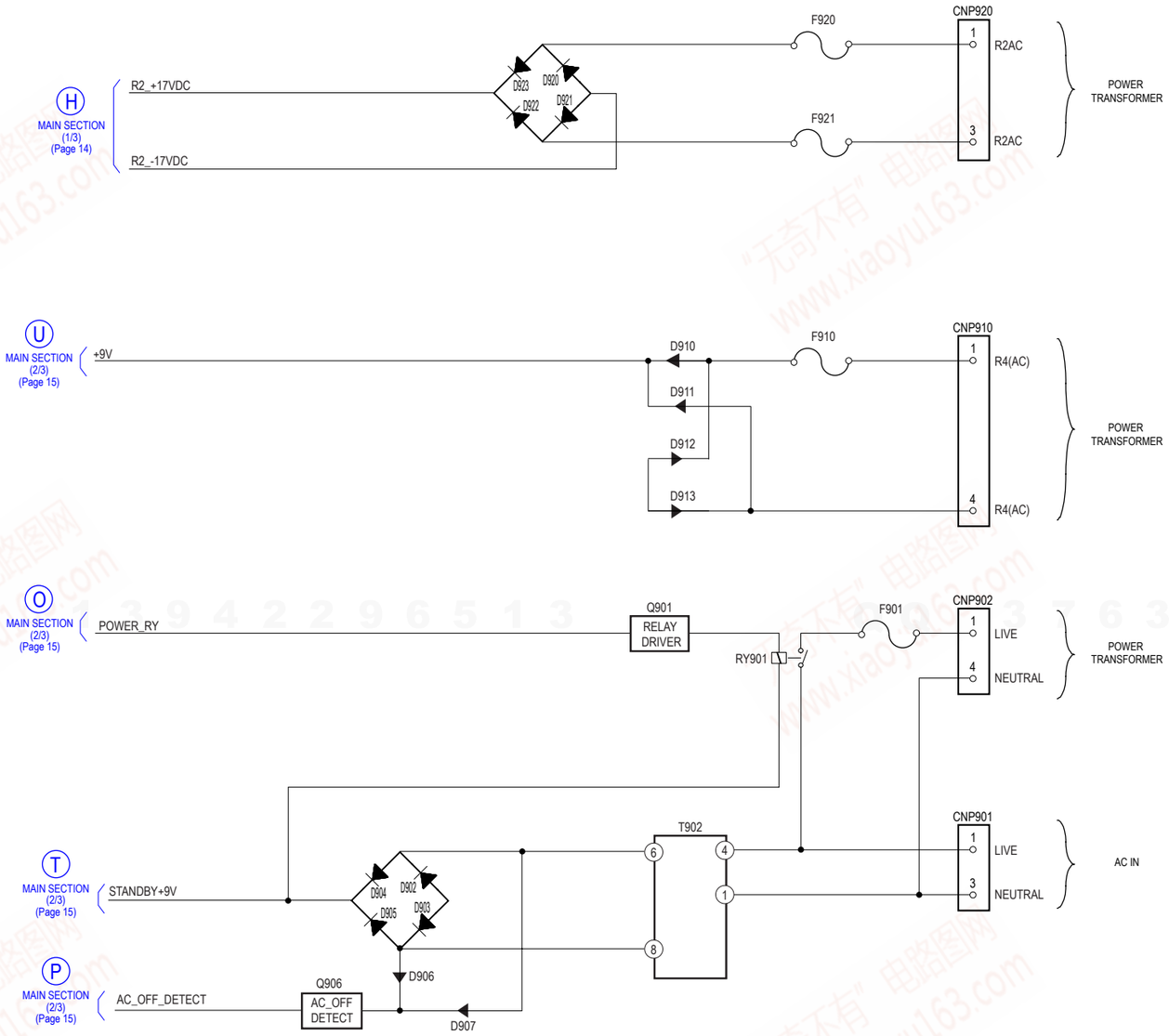
5-2. BLOCK DIAGRAM — MAIN (1/2) SECTION —



5-3. BLOCK DIAGRAM — MAIN (2/3) SECTION —



5-4. BLOCK DIAGRAM — MAIN (3/3) 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:

- o——— : 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 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

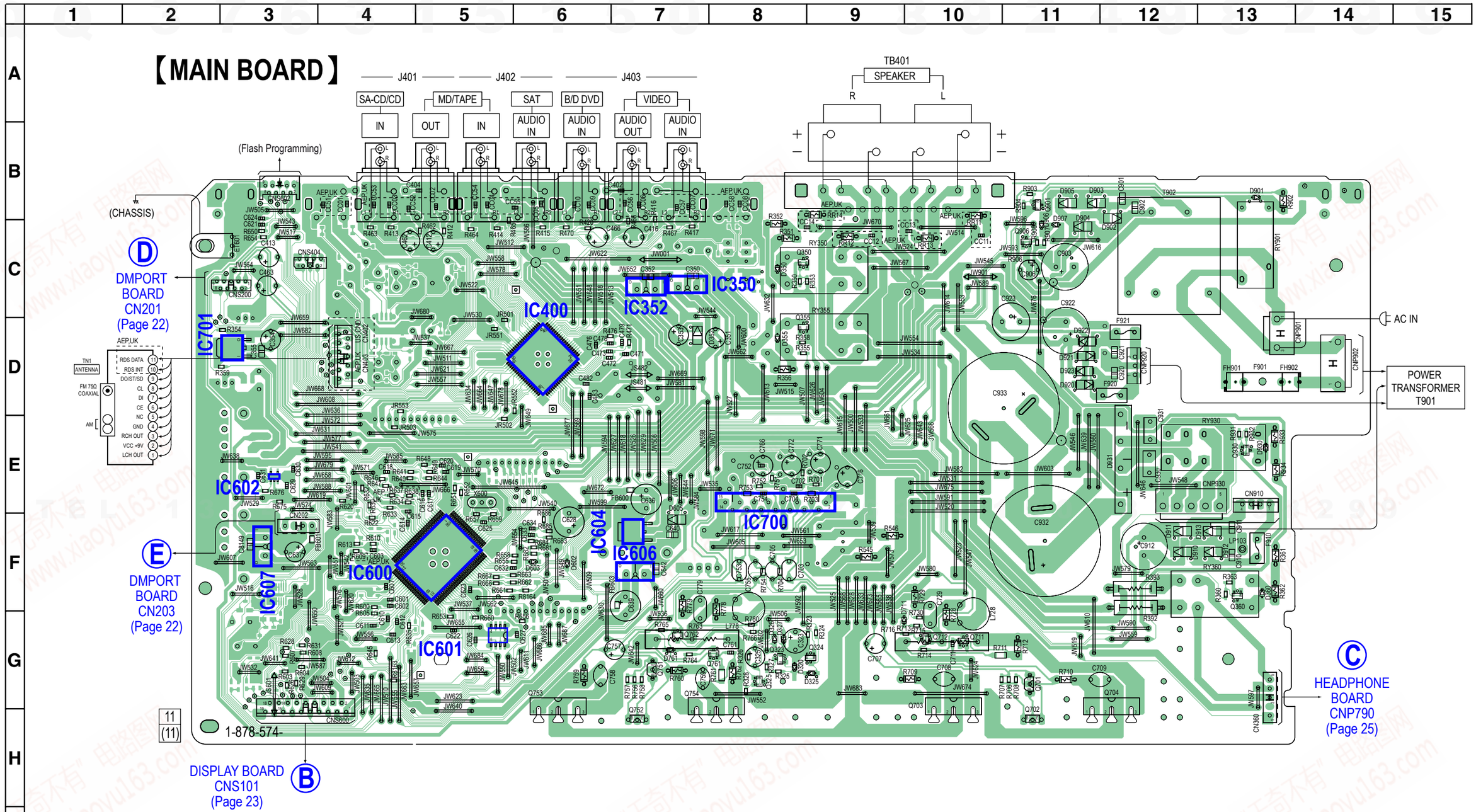
Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- : 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 MΩ). 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

5-5. PRINTED WIRING BOARD — MAIN BOARD —

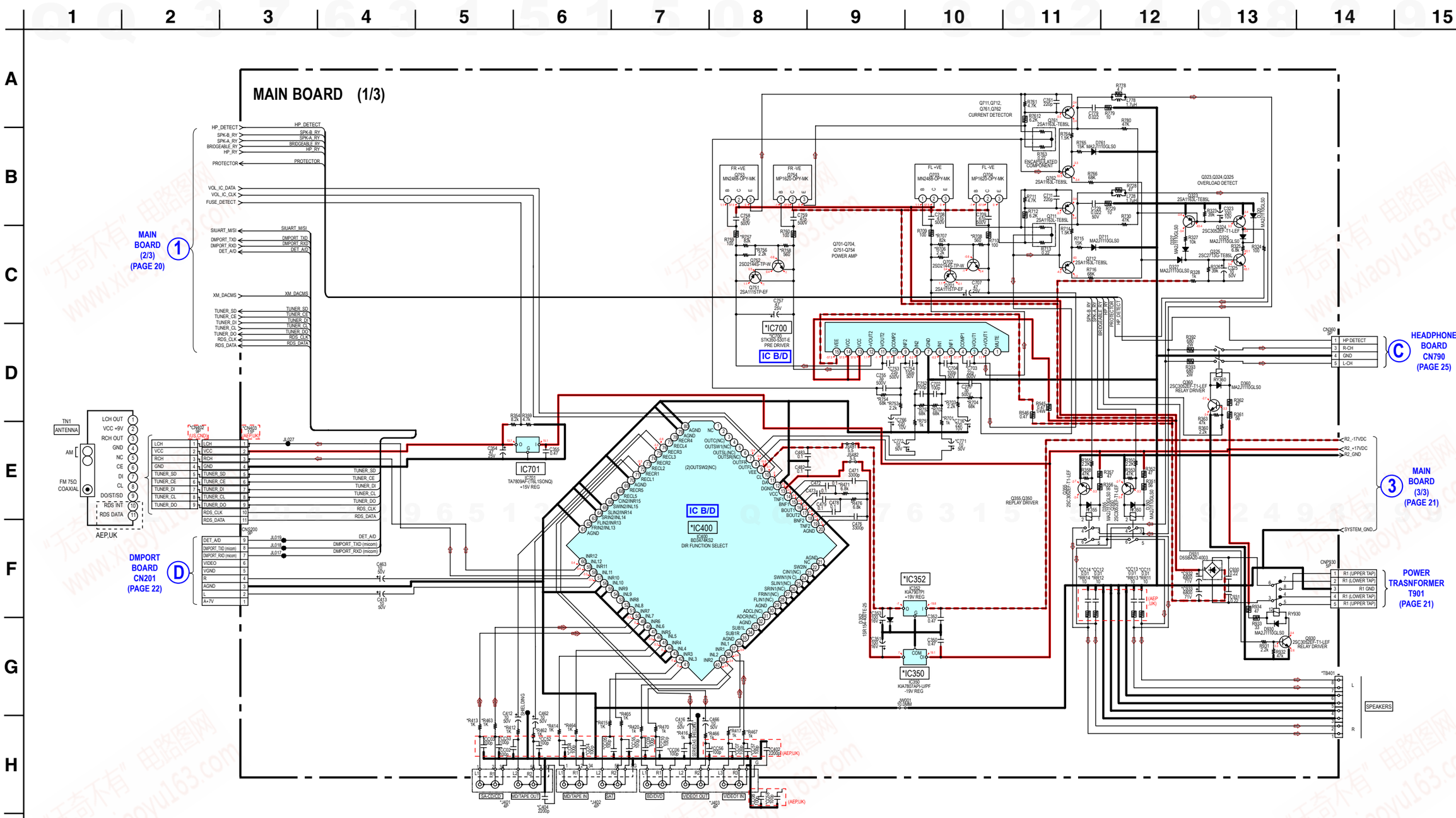
• Refer to page 12 for Circuit Boards Location. : Uses unleaded solder.



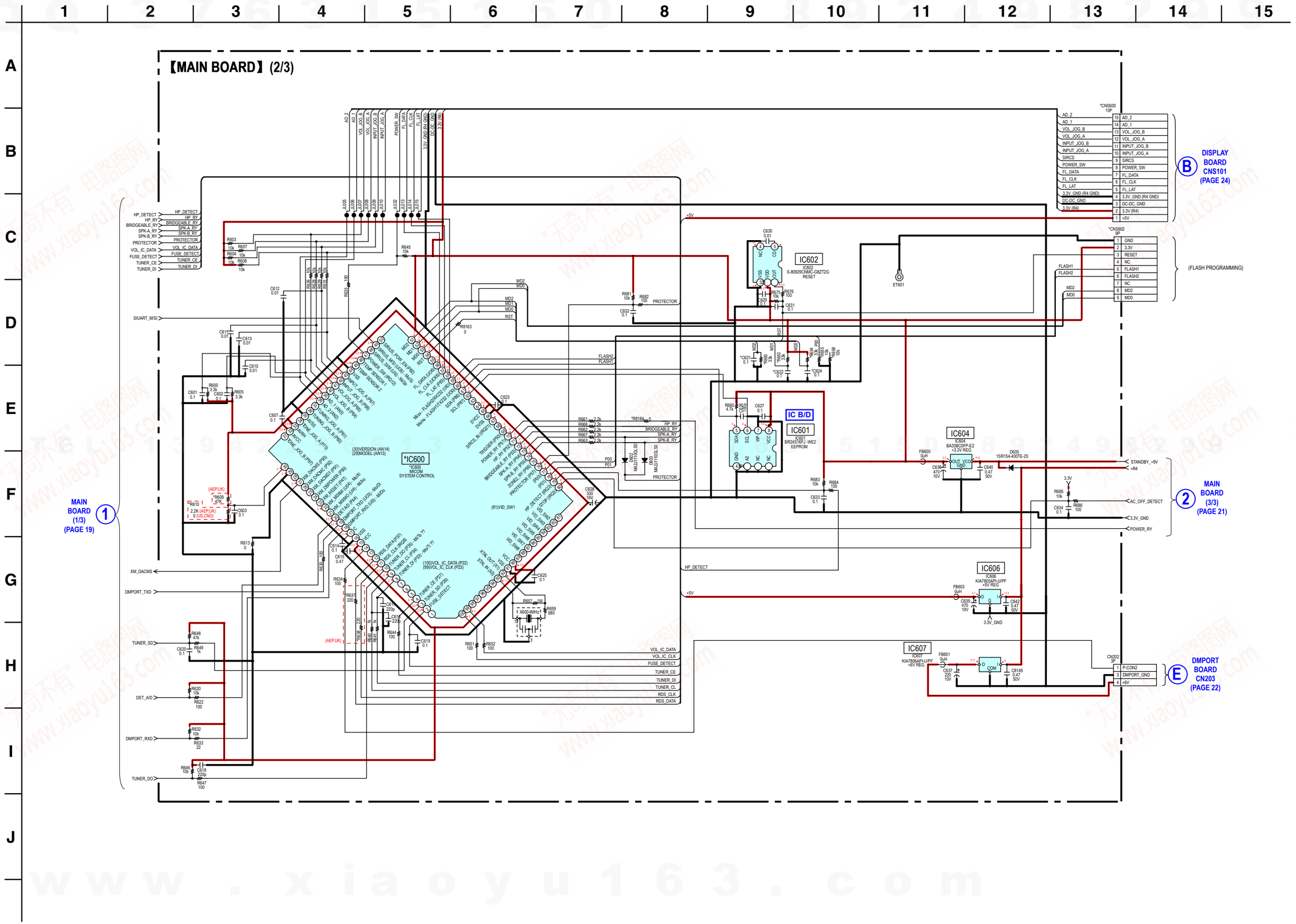
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D320 G-8		D603 F-6		D907 C-11		D930 E-13		IC604 F-6		Q350 C-8		Q712 G-10		Q930 E-13	
D325 G-8		D605 F-7		D910 F-12		D931 E-12		IC606 F-7		Q355 D-8		Q751 G-7			
D326 G-8		D761 G-7		D911 F-12				IC607 F-3		Q360 G-13		Q752 H-6			
D327 G-8		D901 C-13		D912 F-12		IC350 C-7		IC700 F-8		Q701 G-11		Q753 H-6			
D350 C-8		D902 C-12		D913 F-12		IC352 C-7		IC701 D-2		Q702 H-11		Q754 G-7			
D352 D-7		D903 C-12		D920 D-11		IC400 D-6				Q703 H-9		Q761 G-7			
D355 D-8		D904 C-11		D921 D-11		IC600 F-4		Q323 G-8		Q704 H-12		Q762 G-7			
D360 F-13		D905 C-11		D922 D-11		IC601 G-5		Q324 G-8		Q706 H-6		Q901 C-11			
D602 F-6		D906 C-11		D923 D-11		IC602 E-3		Q325	G-8	Q711 G-10		Q906 C-11			

5-6. SCHEMATIC DIAGRAM — MAIN BOARD 1/3 — • Refer to page 30 IC Block Diagrams.

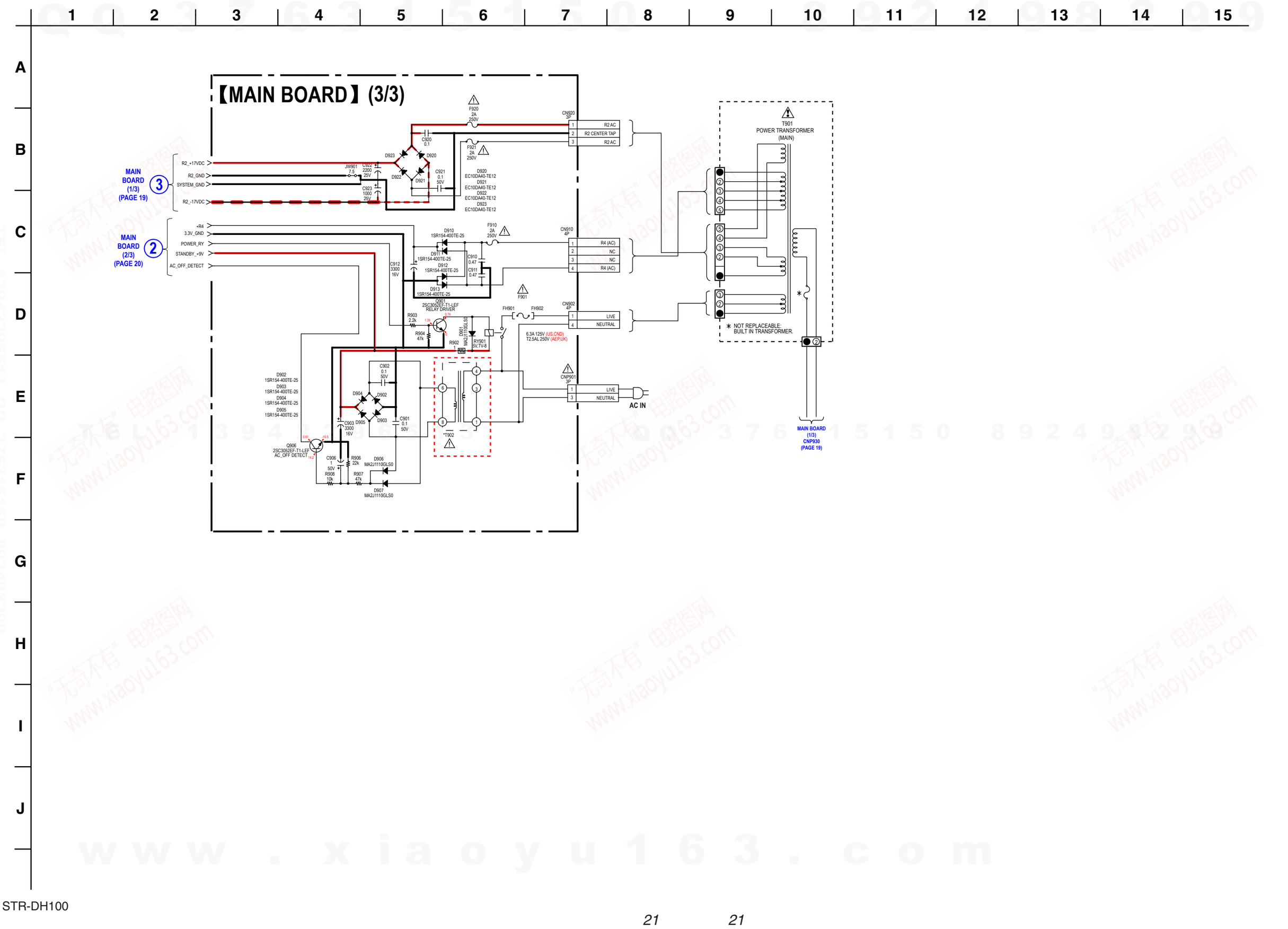


5-7. SCHEMATIC DIAGRAM — MAIN BOARD 2/3 • Refer to page 30 IC Block Diagrams.

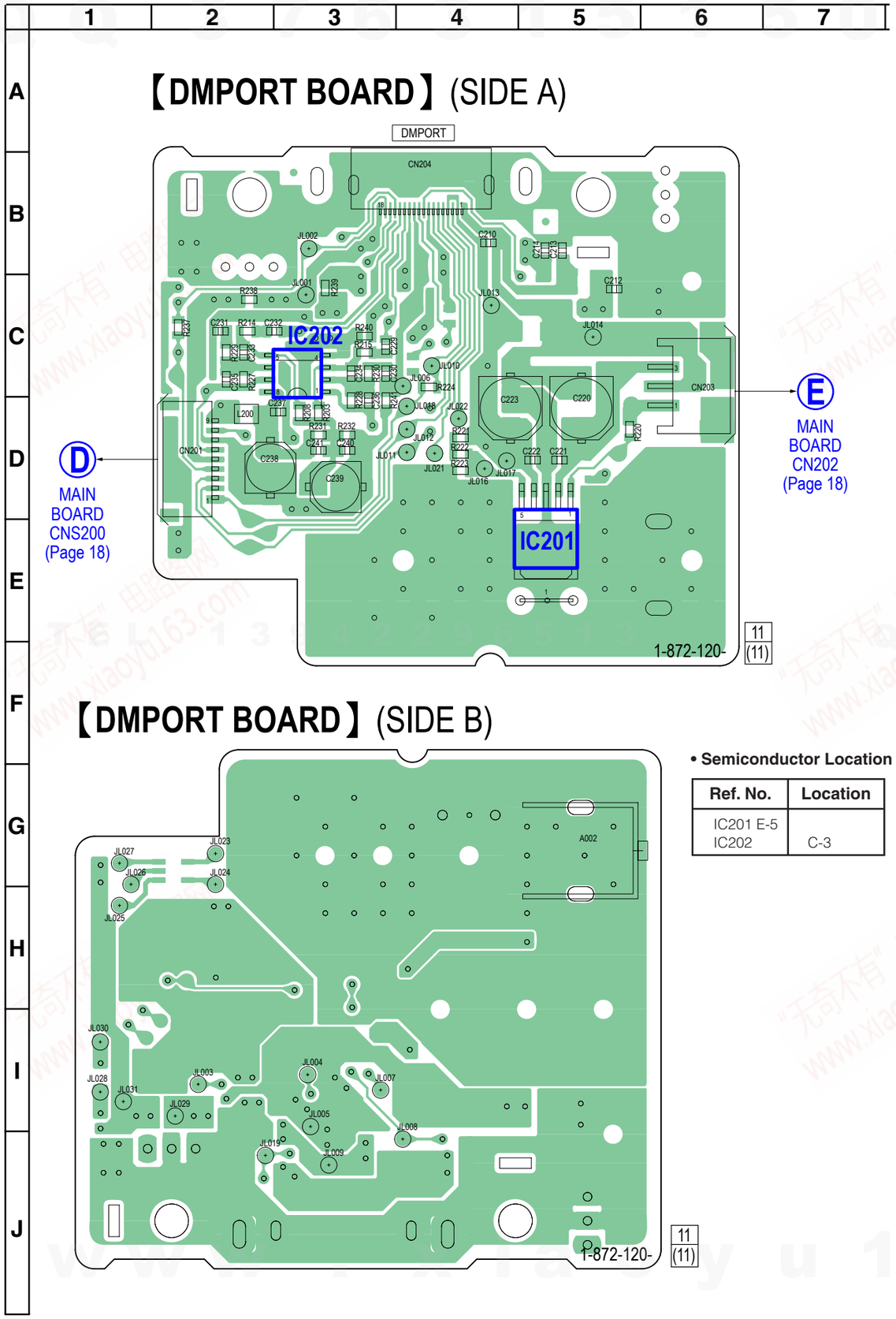


5-8. SCHEMATIC DIAGRAM — MAIN BOARD 3/3

• Refer to page 30 IC Block Diagrams.



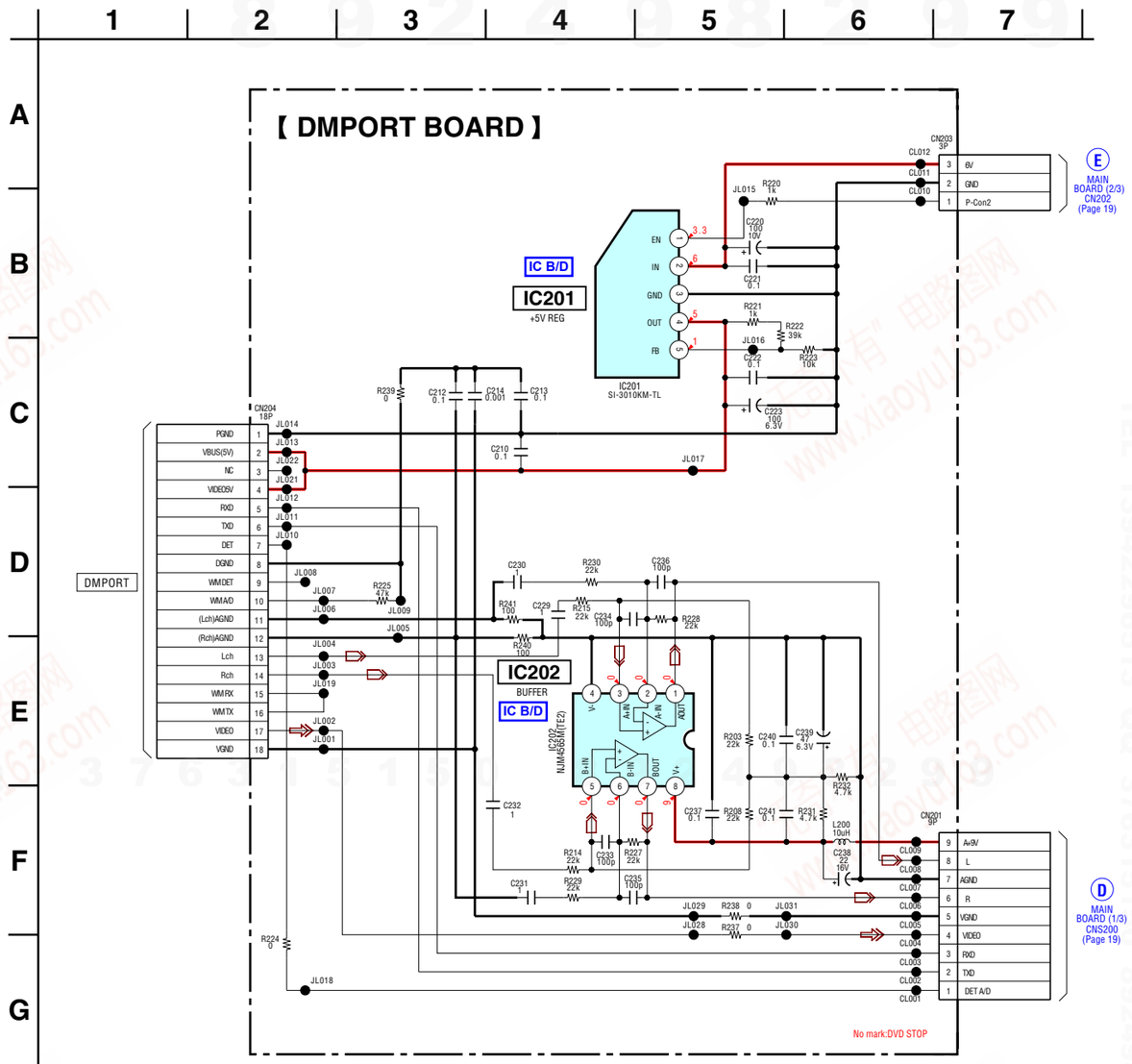
5-9. PRINTED WIRING BOARD — DMPORT BOARD — Refer to page 12 for Circuit Boards Location.



• Semiconductor Location

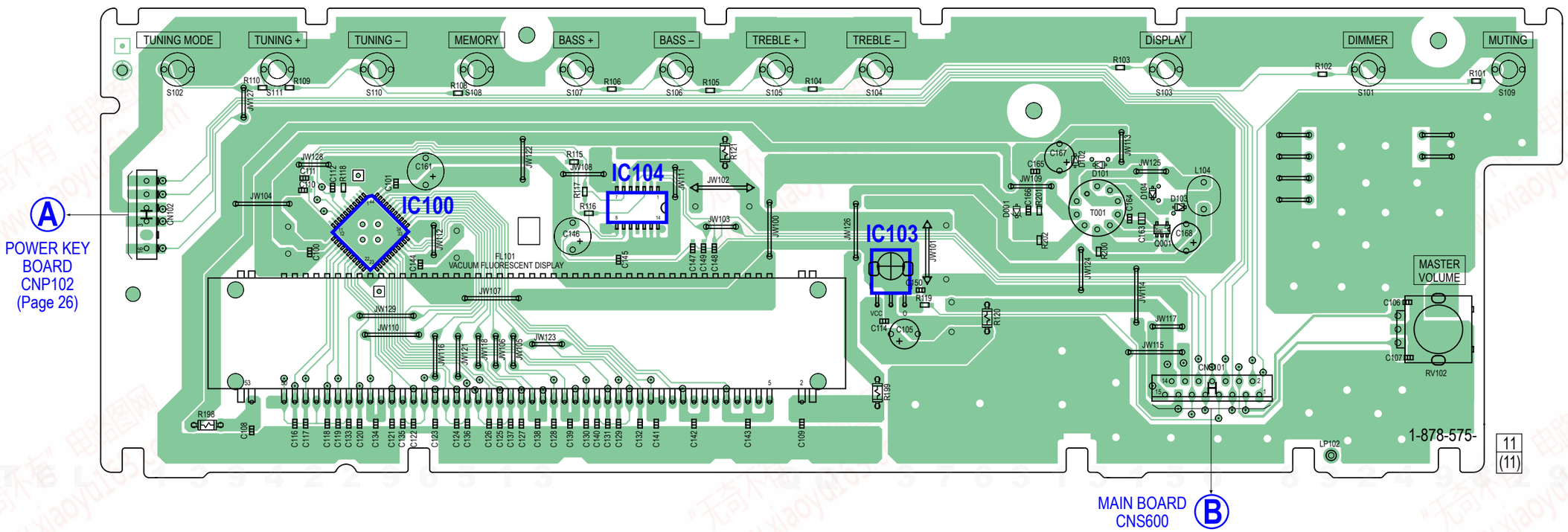
Ref. No.	Location
IC201 E-5	
IC202	C-3

5-10. SCHEMATIC DIAGRAM — DMPORT BOARD • Refer to page 30 IC Block Diagrams.



5-11. PRINTED WIRING BOARD — DISPLAY BOARD — • Refer to page 12 for Circuit Boards Location.

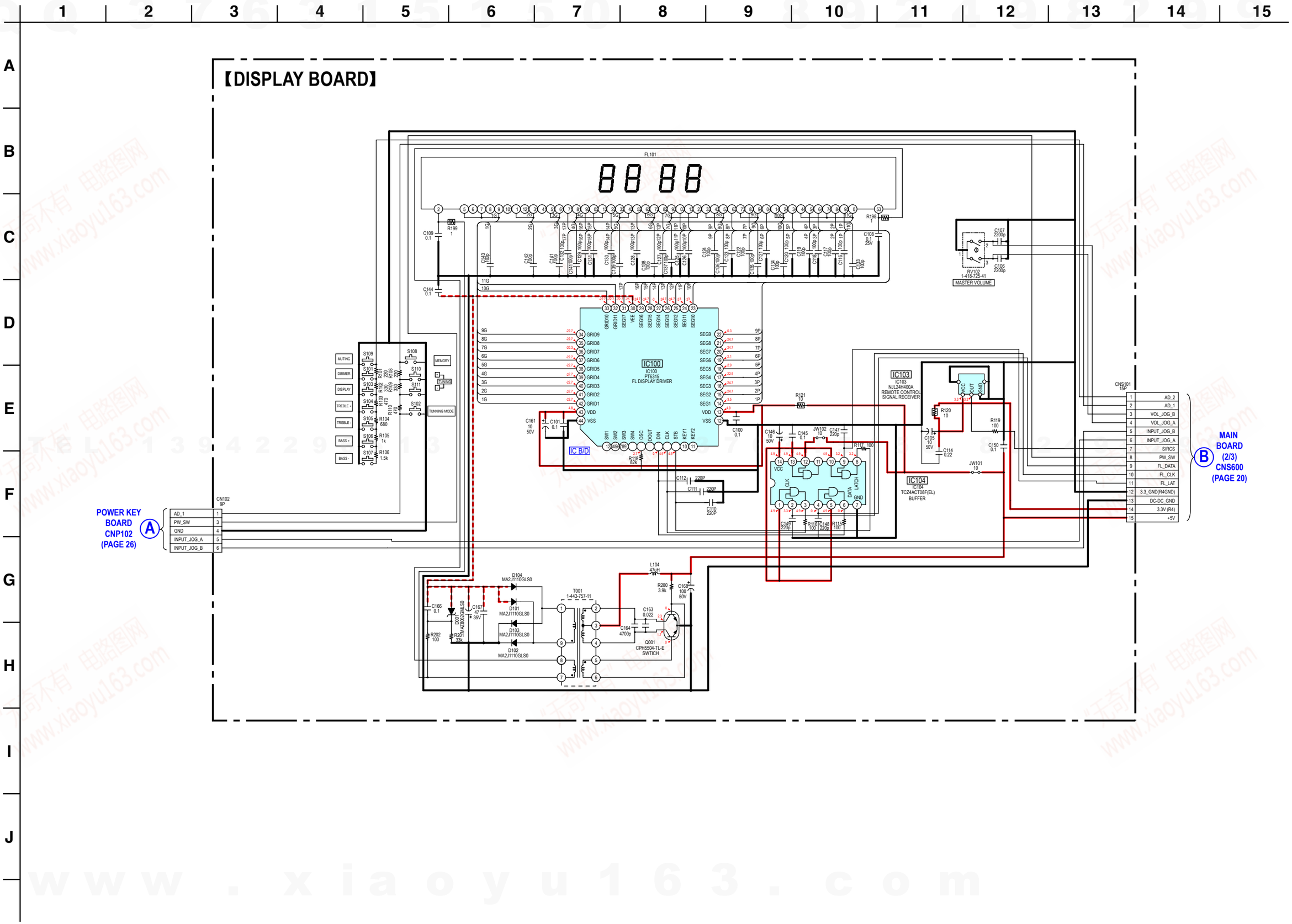
【DISPLAY BOARD】



• Semiconductor Location

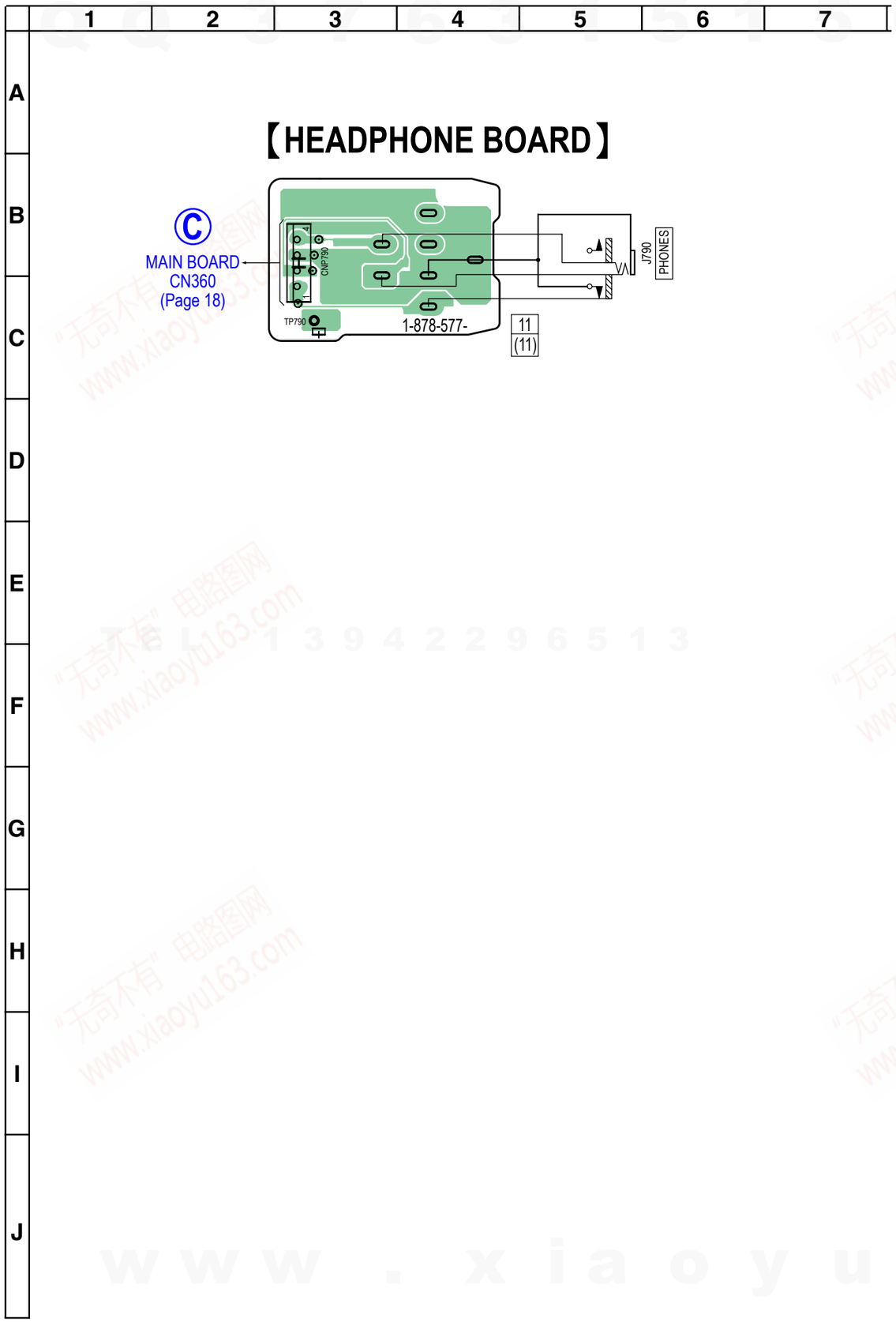
Ref. No.	Location
D001	C-10
D101	C-11
D102	C-10
D103	C-11
D104	C-11
IC100	C-4
IC103	D-9
IC104	C-6
Q001	C-11

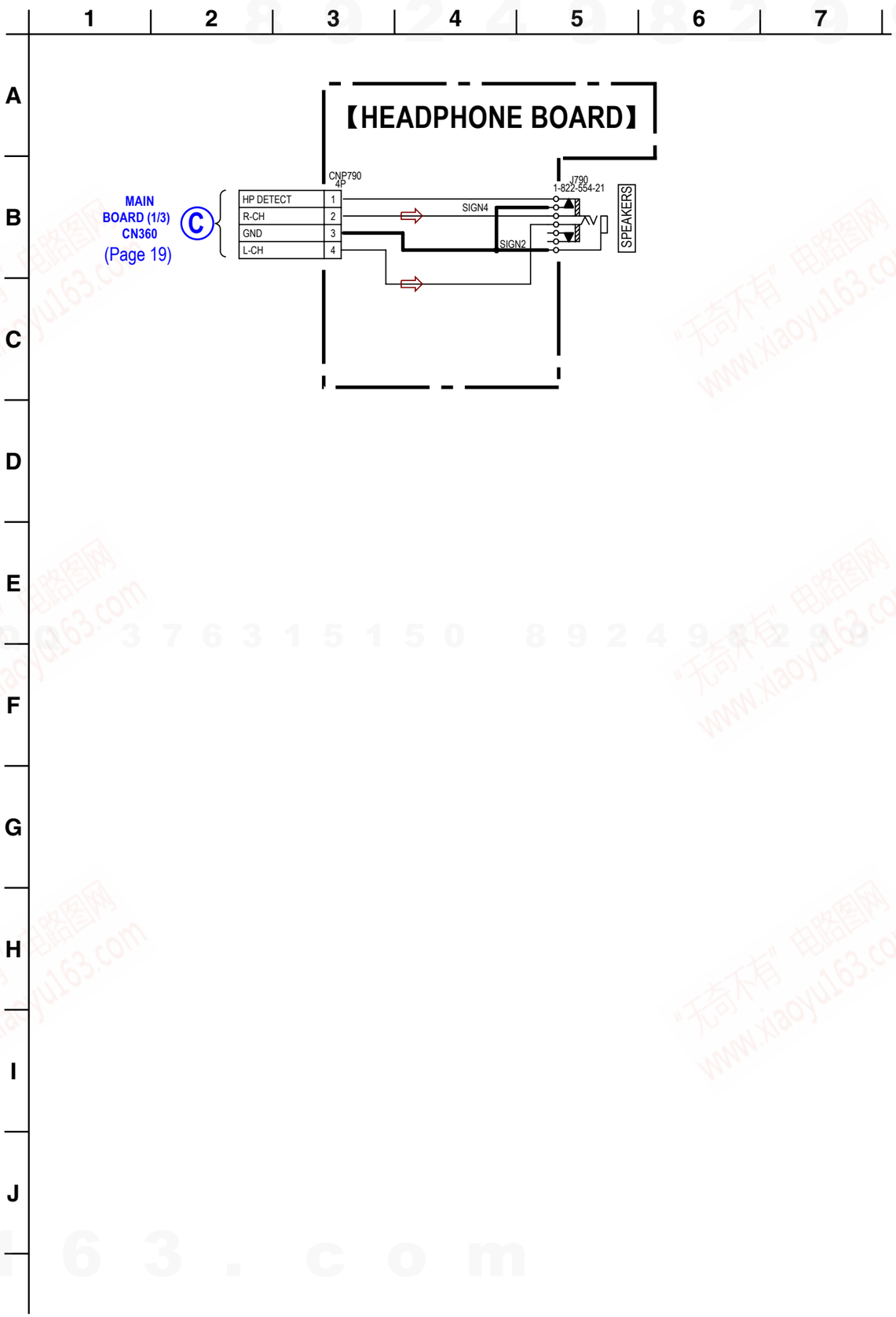
5-12. SCHEMATIC DIAGRAM — DISPLAY BOARD — • Refer to page 30 IC Block Diagrams.



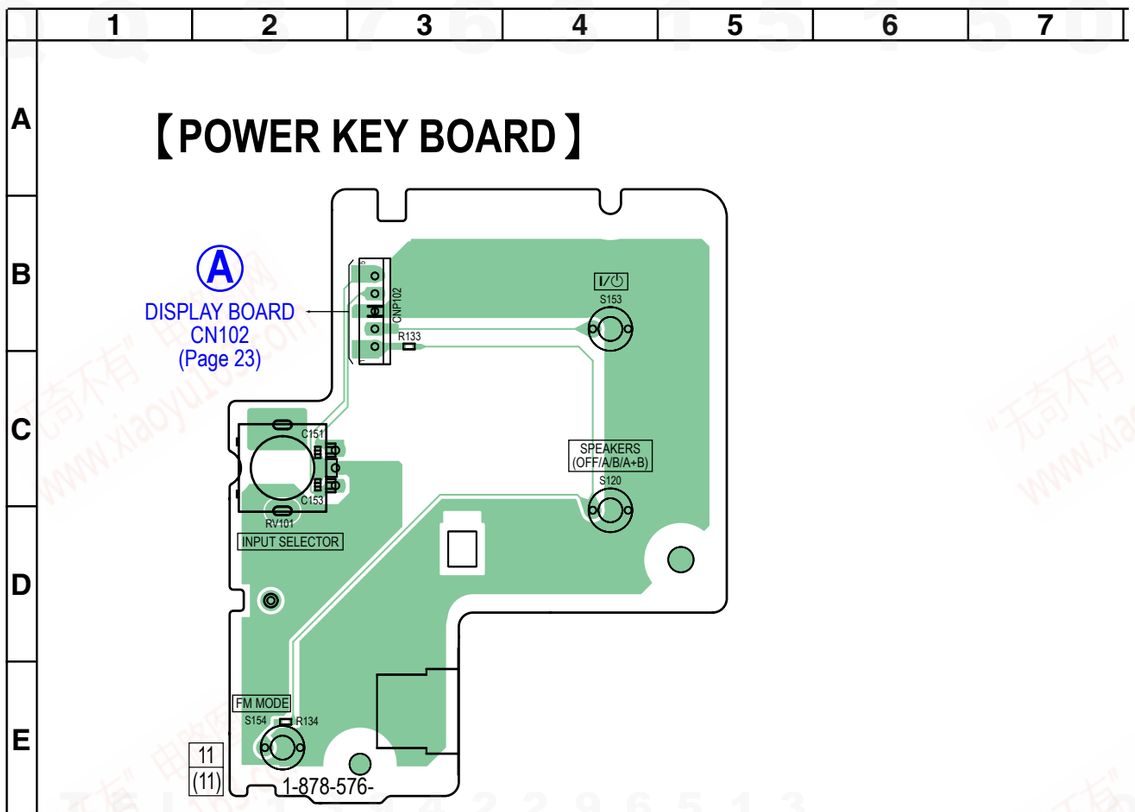
5-13. PRINTED WIRING BOARD — HEADPHONE BOARD — • Refer to page 12 for Circuit Boards Location.

5-14. SCHEMATIC DIAGRAM — HEADPHONE BOARD — • Refer to page 30 IC Block Diagrams.

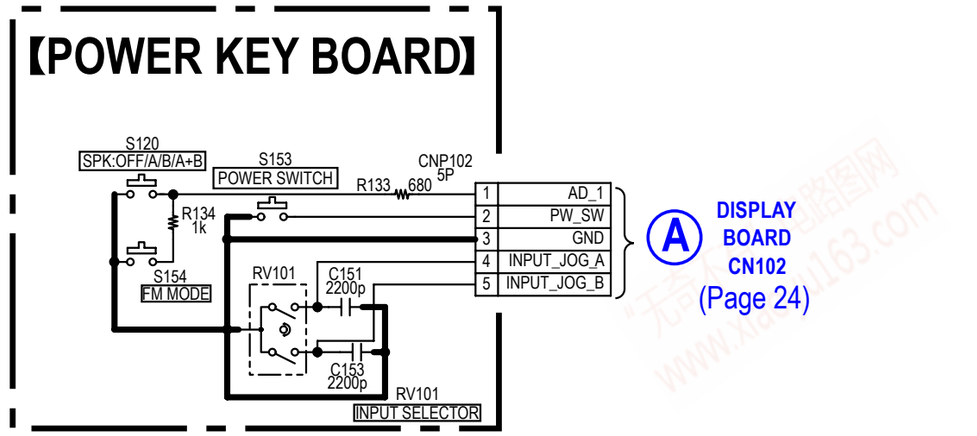




5-15. PRINTED WIRING BOARD — POWER KEY BOARD — • Refer to page 12 for Circuit Boards Location.

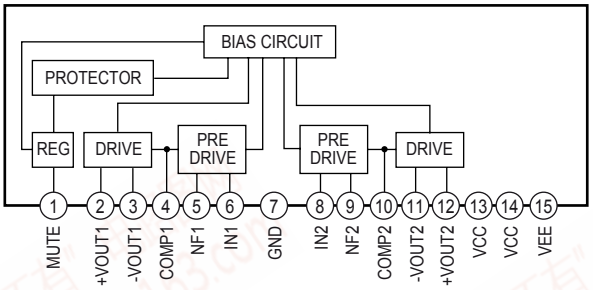


5-16. SCHEMATIC DIAGRAM — POWER KEY BOARD — • Refer to page 30 IC Block Diagrams.

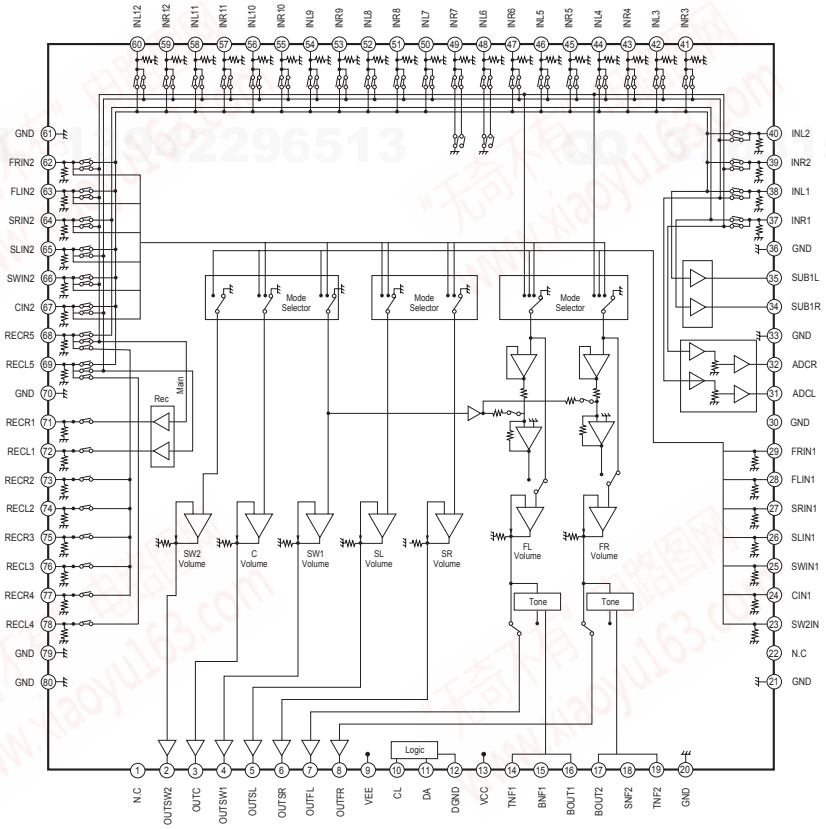


- **IC Block Diagrams**

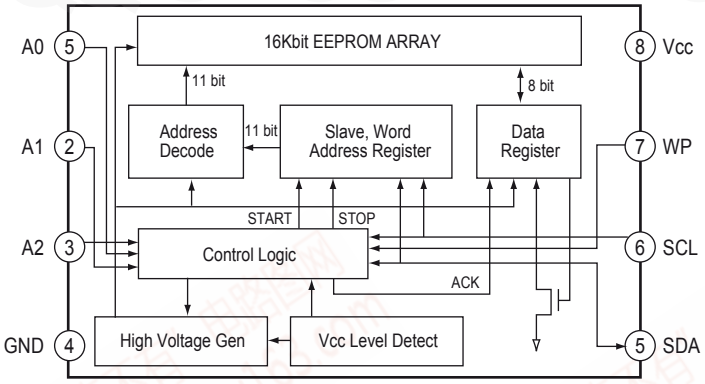
IC700 STK350-530T-E (MAIN BOARD) (1/3)



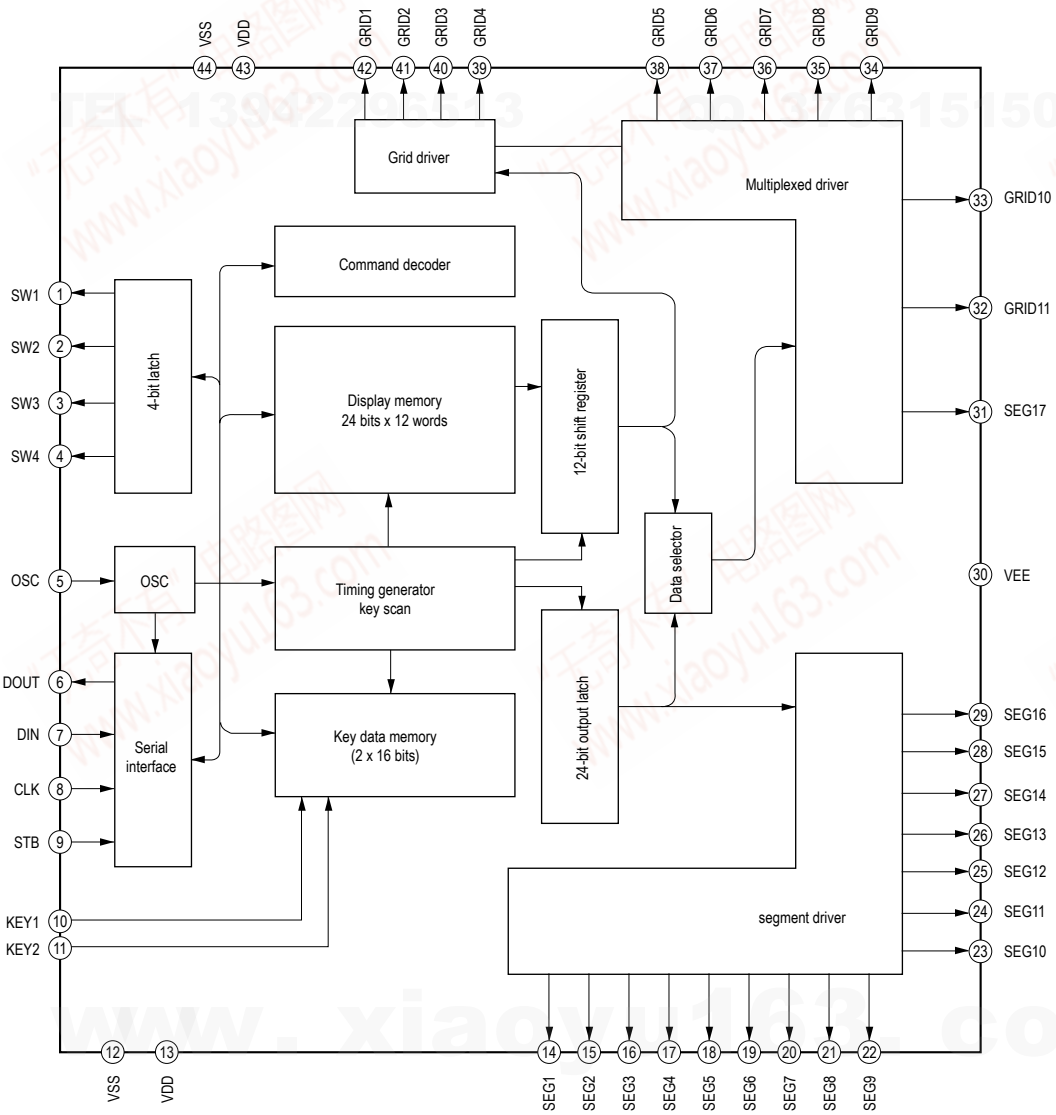
IC400 BD3474KS2 (MAIN BOARD) (1/3)



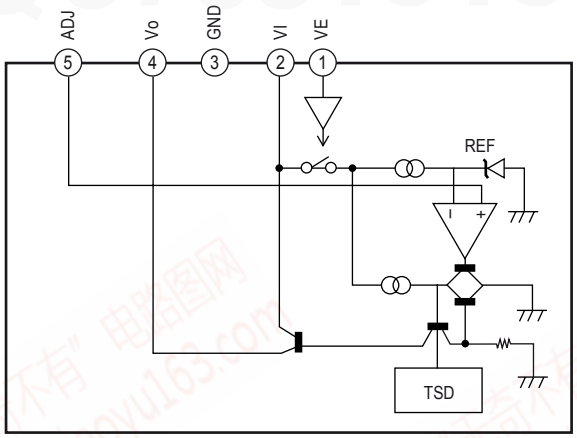
IC601 BR24S16FJ-WE2 (MAIN BOARD) (2/3)



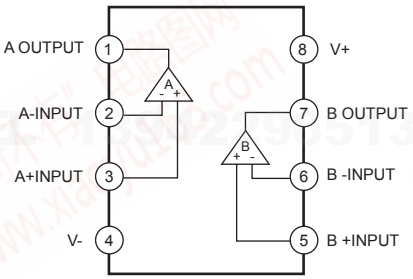
IC100 PT6315 (DISPLAY BOARD)



IC201 SI-3010KM-TLS (DMPORT BOARD)



IC202 NJM4558-TE2 (DMPORT BOARD)



• **IC Pin Function Descriptions**

MAIN BOARD (2/3) IC600 MB90882APF-G-104E1

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
21-29	NC	O	Not used
30	VERSION	I	Destination detection signal input
31	NC	O	Not used
32	AVCC	—	Power supply pin (+3.3 V)
33	AVRH	—	Power supply pin (+3.3 V)
34	NC	I	Not used
35	AVSS/AVRL	—	Ground
36-37	NC	I	Not used
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
42-43	INPUT_JOG_A	O	INPUT SELECTOR encoder (A) signal input
44	$\overline{\text{VSS}}$	—	Ground
45-46	NC	I	Thermal sensor tempreture signal input
47	POWER_SW	I	Power key detection signal input
48-50	NC	O	Not used
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
59-60	NC	O	Not used
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
68-69	NC	O	Not used
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

Pin No.	Pin Name	I/O	Description
74	SP_B_RY	O	Front speaker B relay driver control signal output
75	NC	O	Front speaker B 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
81-89	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	I	Serial data output for DIR IC
100	VOL_IC_CLK	O	Clock signal output for DIR IC

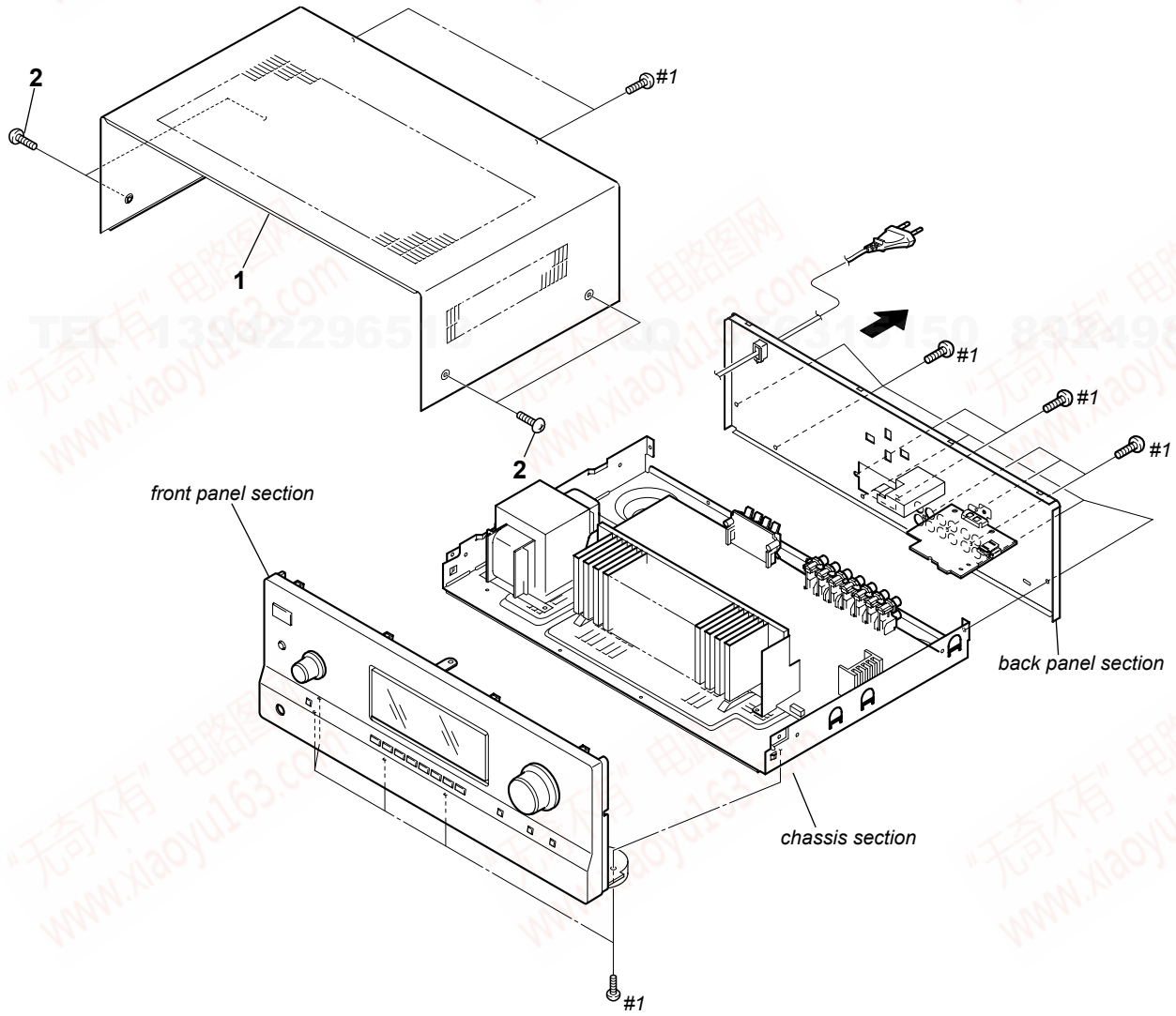
SECTION 6
EXPLODED VIEWS

Note:
- -XX and -X mean standardized parts, so they may have some dif ference 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 identi fied by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

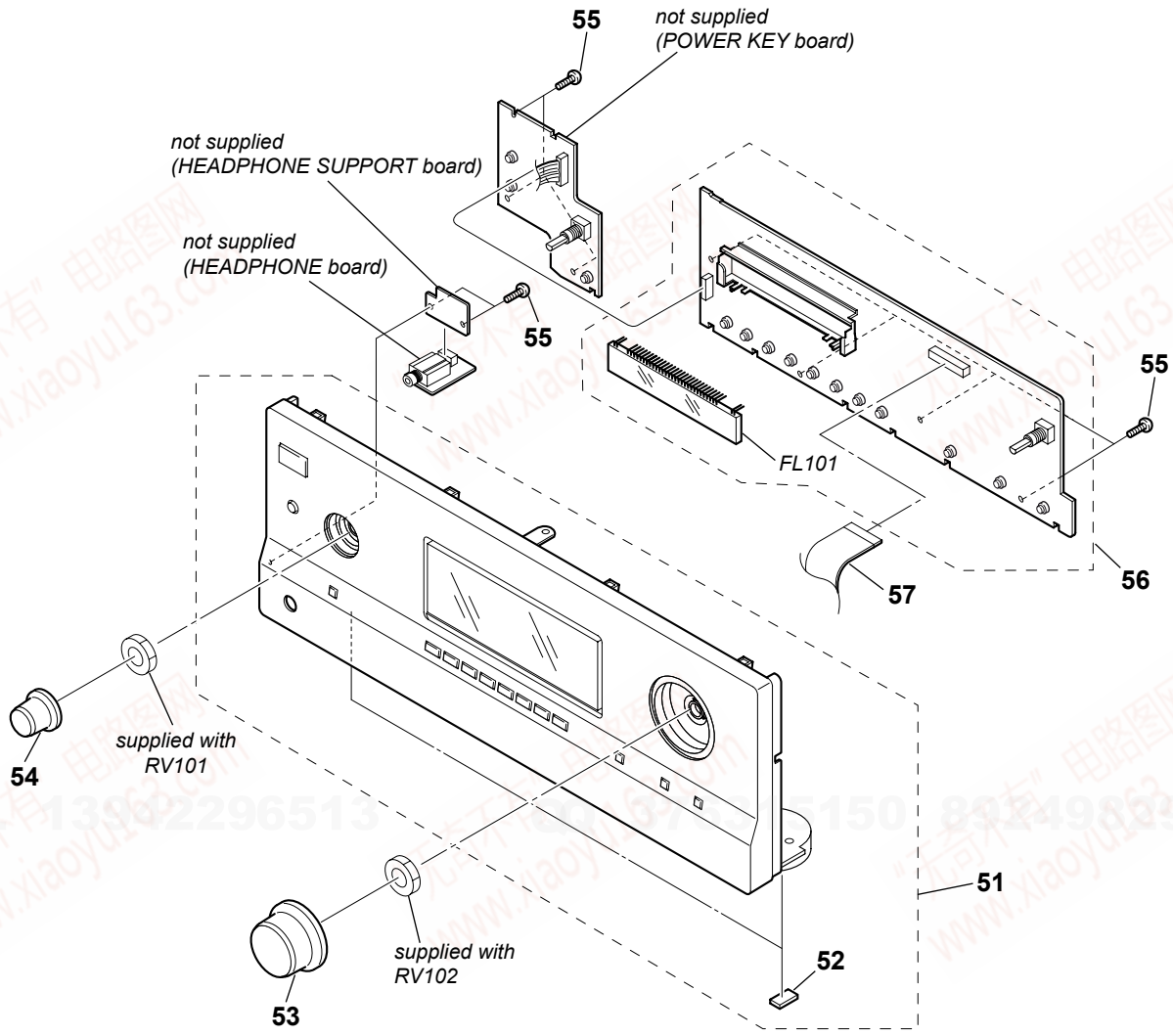
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CASE SECTION



Ref. No.	Part No.	Description	Remark
1	4-124-567-01	CASE (G2)	
2	2-580-630-01	SCREW, +BVST 4X8	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

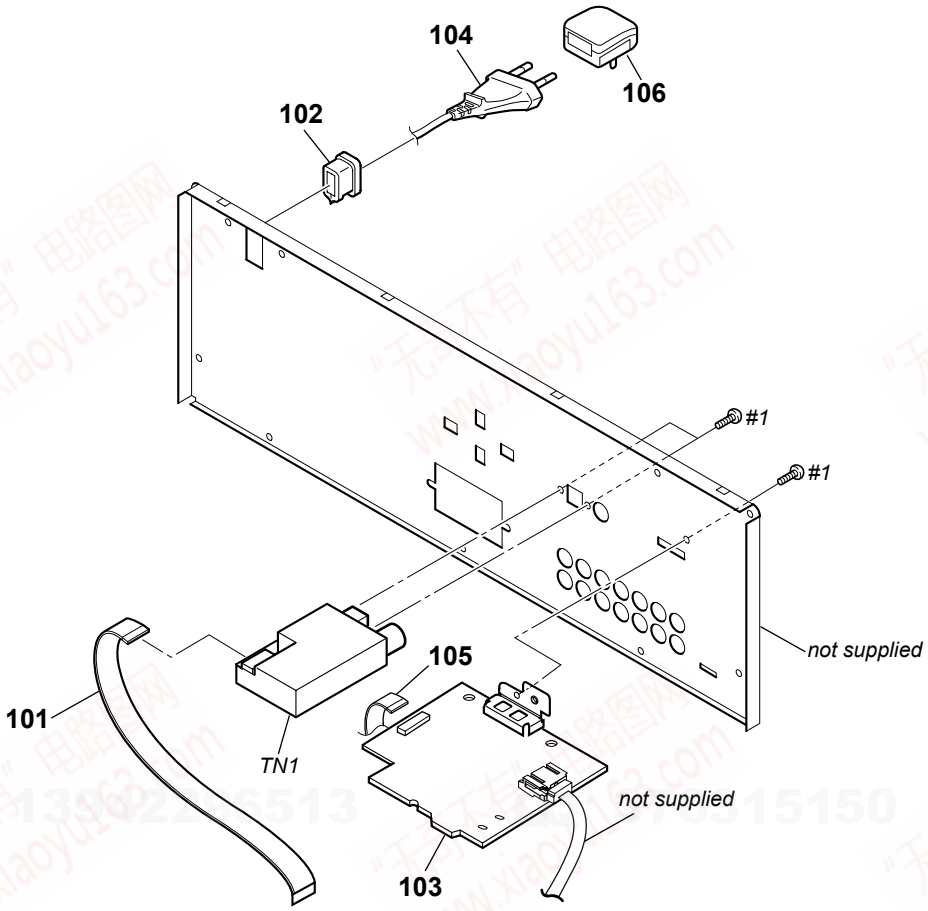
6-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-2342-431-1	FRONT PANEL ASSY (US)	
51	X-2342-432-1	FRONT PANEL ASSY (CND)	
51	X-2342-433-1	FRONT PANEL ASSY (AEP, UK)	
52	4-977-358-11	CUSHION	
53	4-124-321-01	KNOB, VOLUME (G53)	
54	4-124-322-01	KNOB, INPUT (G53)	
55	3-087-053-01	+BVTP2.6 (3CR)	

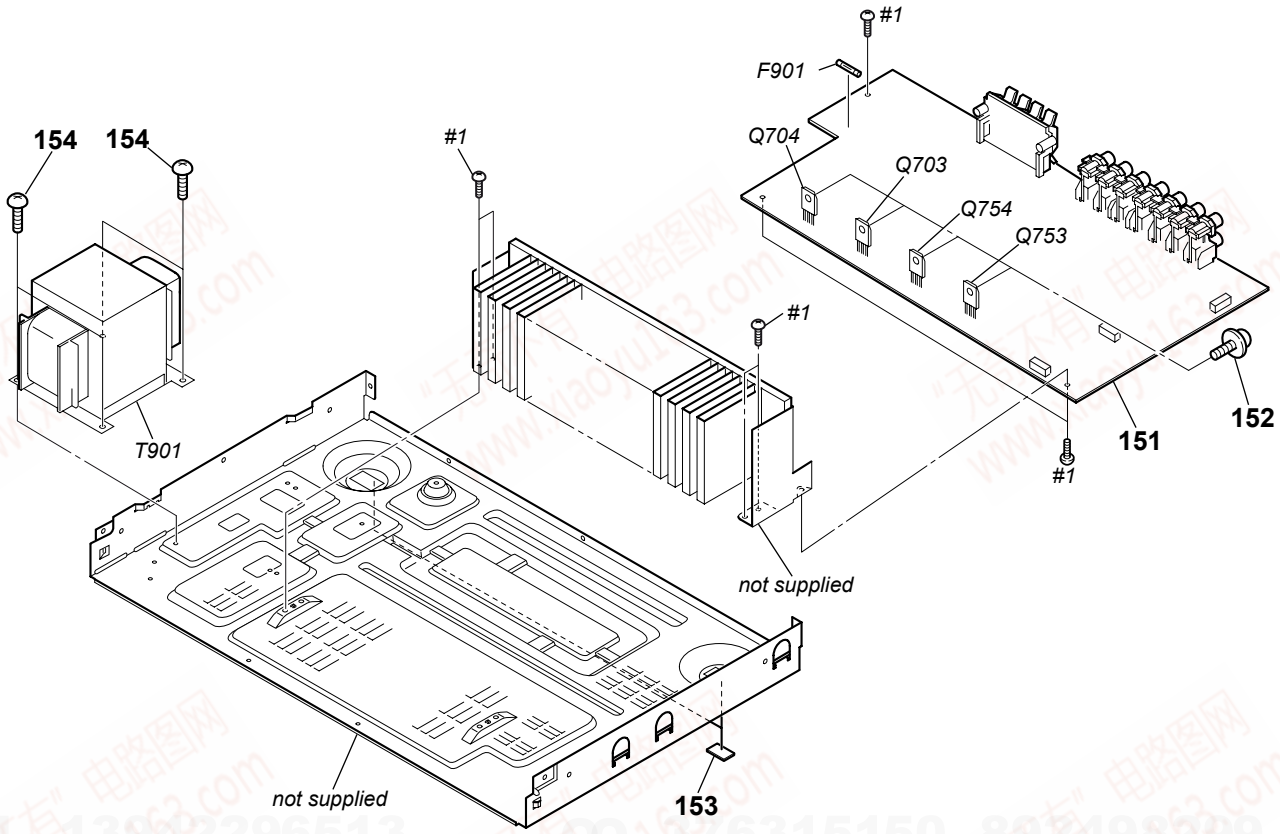
Ref. No.	Part No.	Description	Remark
56	A-1616-096-A	DISPLAY BOARD, COMPLETE	
57	1-921-220-31	WIRE (FLAT TYPE) (15 CORE)	
FL101	1-483-065-11	VACUUM FLUORESCENT DISPLAY	

6-3. BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark
101	1-823-669-11	WIRE (FLAT TYPE) (11 CORE) (AEP, UK)	
101	1-828-956-11	WIRE (FLAT TYPE) (9 CORE) (US, CND)	
102	3-113-062-01	CORD BUSH (2104)	
103	A-1616-100-A	DMPORT BOARD, COMPLETE	
104	1-834-270-11	CORD, POWER (US, CND)	
104	1-777-071-83	CORD, POWER (AEP, UK)	
105	1-828-309-51	WIRE (FLAT TYPE) (9 CORE)	
106	1-770-019-71	ADAPTOR, CONVERSION PLUG 3P (UK)	
TN1	1-693-728-31	TUNER (FM/AM) (US, CND)	
TN1	1-693-737-21	TUNER (FM/AM) (AEP, UK)	

6-4. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
151	A-1616-094-A	MAIN BOARD, COMPLETE (US, CND)	
151	A-1616-121-A	MAIN BOARD, COMPLETE (AEP, UK)	
152	3-905-609-01	SCREW (TRANSISTOR)	
153	4-977-358-11	CUSHION	
154	4-249-675-01	+BV SUMITITE S 4X6 ROUND	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
⚠ 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)	

Ref. No.	Part No.	Description	Remark
⚠ T901	1-445-619-11	POWER TRANSFORMER (US, CND)	
⚠ T901	1-445-620-11	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	

DISPLAY

SECTION 7
ELECTRICAL PARTS LIST

Note:

- Due to standardization, replacements in the parts list may be dif ferent from the parts specified in the diagrams or the components used on the set.
- Items marked " *" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- RESIST ORS
  All resistors are in ohms.
  MET AL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- CAP ACITORS
  uF: µF
- COILS
  uH: µH
- SEMICONDUCT ORS
  In each case, u: µ, for example:
  uA. . : µA. . , uPA. . , µPA. . ,
  uPB. . : µPB. . , uPC. . , µPC. . ,
  uPD. . : µPD. .
- Abbreviation
  CND : Canadian model

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

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

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

Ref. No.	Part No.	Description			Remark
	A-1616-096-A	DISPLAY BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C100	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C101	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C105	1-126-964-11	ELECT	10uF	20%	50V
C106	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C107	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C108	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C109	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1 10	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1 11	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1 12	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1 14	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C116	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C1 17	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C1 18	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C119	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C120	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C121	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C122	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C123	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C124	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C125	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C126	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C127	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C128	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C129	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C130	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C131	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C132	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C133	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C134	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C135	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C136	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C137	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C138	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C139	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C140	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C141	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C142	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C143	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C144	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C145	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C146	1-124-261-00	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C147	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C148	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C149	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C150	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C161	1-124-261-00	ELECT	10uF	20%	50V
C163	1-163-037-11	CERAMIC CHIP	0.022uF	10%	50V
C164	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C165	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C166	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C167	1-126-947-11	ELECT	47uF	20%	35V
C168	1-165-722-11	ELECT	100uF	20%	10V
		< CONNECTOR >			
CNS101	1-784-776-11	CONNECTOR, FFC 15P			
		< DIODE >			
D001	6-501-738-01	DIODE MAZ8062GMLS0			
D101	6-501-817-01	DIODE MA2J1110GLS0			
D102	6-501-817-01	DIODE MA2J1110GLS0			
D103	6-501-817-01	DIODE MA2J1110GLS0			
D104	6-501-817-01	DIODE MA2J1110GLS0			
		< FLUORESCENT INDICATOR TUBE >			
FL101	1-483-065-11	VACUMM FLOURESCENT DISPLAYS			
		< IC >			
IC100	6-701-729-01	IC PT6315			
IC103	6-600-349-31	IC NJL24H400A			
IC104	8-759-157-94	IC TC74ACT08F (EL)			
		< COIL >			
L104	1-410-671-31	INDUCTOR	47uH		
		< TRANSISTOR >			
Q001	6-550-065-01	TRANSISTOR	CPH5504-TL-E		
		< RESISTOR >			
R101	1-216-813-11	METAL CHIP	220	5%	1/10W
R102	1-216-815-11	METAL CHIP	330	5%	1/10W
R103	1-216-817-11	METAL CHIP	470	5%	1/10W
R104	1-216-819-11	METAL CHIP	680	5%	1/10W
R105	1-216-821-11	METAL CHIP	1K	5%	1/10W
R106	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R108	1-216-813-11	METAL CHIP	220	5%	1/10W

Ref. No.	Part No.	Description			Remark
R109	1-216-815-11	METAL CHIP	330	5%	1/10W
R1 10	1-216-817-11	METAL CHIP	470	5%	1/10W
R1 15	1-216-809-11	METAL CHIP	100	5%	1/10W
R1 16	1-216-809-11	METAL CHIP	100	5%	1/10W
R1 17	1-216-809-11	METAL CHIP	100	5%	1/10W
R1 18	1-216-844-11	METAL CHIP	82K	5%	1/10W
R1 19	1-216-809-11	METAL CHIP	100	5%	1/10W
R120	1-249-393-11	CARBON	10	5%	1/4W
R121	1-249-393-11	CARBON	10	5%	1/4W
R198	1-249-381-11	CARBON	1	5%	1/4W
R199	1-249-381-11	CARBON	1	5%	1/4W
R200	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R201	1-216-839-11	METAL CHIP	33K	5%	1/10W
R202	1-216-809-11	METAL CHIP	100	5%	1/10W
		< VARIABLE RESISTOR >			
R V102	1-418-725-41	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)			
		< SWITCH >			
S101	1-771-410-21	SWITCH, TACTILE (DIMMER)			
S102	1-771-410-21	SWITCH, TACTILE (TUNING MODE)			
S103	1-771-410-21	SWITCH, TACTILE (DISPLAY)			
S104	1-771-410-21	SWITCH, TACTILE (TREBLE -)			
S105	1-771-410-21	SWITCH, TACTILE (TREBLE +)			
S106	1-771-410-21	SWITCH, TACTILE (BASS -)			
S107	1-771-410-21	SWITCH, TACTILE (BASS +)			
S108	1-771-410-21	SWITCH, TACTILE (MEMORY)			
S109	1-771-410-21	SWITCH, TACTILE (MUTING)			
S110	1-771-410-21	SWITCH, TACTILE (TUNING -)			
S111	1-771-410-21	SWITCH, TACTILE (TUNING +)			
		< TRANSFORMER >			
T001	1-445-231-11	TRANSFORMER, DC-DC CONVERTER			
	A-1616-100-A	DMPORT BOARD, COMPLETE			
		< CAPACITOR >			
C210	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C212	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C213	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C220	1-128-995-21	ELECT CHIP	100uF	20%	10V
C221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C222	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C223	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C229	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
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
C235	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C236	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C237	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C238	1-126-395-11	ELECT CHIP	22uF	20%	16V
C239	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C240	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark
C241	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN201	1-784-861-51	CONNECTOR, FFC (LIF (NON-ZIF)) 9P			
CN203	1-774-730-21	PIN, CONNECTOR (PC BOARD) 3P			
CN204	1-817-615-21	CONNECTOR, SQUARE TYPE (RECE)			
		< IC >			
IC201	6-712-613-01	IC SI-3010KM-TLS			
IC202	8-759-100-96	IC uPC4558G2			
		< COIL >			
L200	1-469-525-91	INDUCTOR	10uH		
		< RESISTOR >			
R203	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R208	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R214	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R215	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R220	1-216-821-11	METAL CHIP	1K	5%	1/10W
R221	1-216-821-11	METAL CHIP	1K	5%	1/10W
R222	1-216-840-11	METAL CHIP	39K	5%	1/10W
R223	1-216-833-11	METAL CHIP	10K	5%	1/10W
R224	1-216-864-11	SHORT CHIP	0		
R227	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R228	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R229	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R230	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R231	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R232	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R237	1-216-864-11	SHORT CHIP	0		
R238	1-216-864-11	SHORT CHIP	0		
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
		HEADPHONE BOARD			
		< CONNECTOR >			
* CNP790	1-564-507-11	PLUG, CONNECTOR 4P			
		< JACK >			
J790	1-822-554-21	JACK (PHONES)			
	A-1616-094-A	MAIN BOARD, COMPLETE (US, CND)			
	A-1616-121-A	MAIN BOARD, COMPLETE (AEP, UK)			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C323	1-126-924-11	ELECT	330uF	20%	10V
C325	1-126-964-11	ELECT	10uF	20%	50V
C350	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C351	1-126-933-11	ELECT	100uF	20%	16V
C352	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C353	1-126-933-11	ELECT	100uF	20%	16V
C354	1-126-947-11	ELECT	47uF	20%	35V

MAIN

Ref. No.	Part No.	Description			Remark
C355	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C402	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C404	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C412	1-126-964-11	ELECT	10uF	20%	50V
C413	1-126-964-11	ELECT	10uF	20%	50V
C416	1-126-964-11	ELECT	10uF	20%	50V
C462	1-126-964-11	ELECT	10uF	20%	50V
C463	1-126-964-11	ELECT	10uF	20%	50V
C466	1-126-964-11	ELECT	10uF	20%	50V
C471	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C472	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C473	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C476	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C478	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C479	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C482	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C483	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C601	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C602	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C603	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C607	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C610	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C61 1	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C612	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C613	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C614	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C615	1-165-647-91	CERAMIC CHIP	0.47uF	10%	6.3V
C616	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C617	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C618	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C619	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C620	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C621	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C622	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C623	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C624	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C625	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C626	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C627	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C628	1-104-661-91	ELECT	330uF	20%	16V
C629	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C630	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C631	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C632	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C633	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C634	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C636	1-135-372-31	ELECT	470uF	20%	10V
C637	1-126-923-91	ELECT	220uF	20%	10V
C639	1-135-372-31	ELECT	470uF	20%	10V
C640	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C642	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C702	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C703	1-101-810-00	CERAMIC	100PF	5%	500V
C704	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C705	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C707	1-126-947-11	ELECT	47uF	20%	35V
C708	1-162-815-11	CERAMIC	47PF	5%	500V
C709	1-162-815-11	CERAMIC	47PF	5%	500V
C71 1	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C716	1-126-923-91	ELECT	220uF	20%	10V

Ref. No.	Part No.	Description			Remark
C729	1-136-157-00	FILM	0.022uF	5%	50V
C752	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C753	1-101-810-00	CERAMIC	100PF	5%	500V
C754	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C755	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C757	1-126-947-11	ELECT	47uF	20%	35V
C758	1-162-815-11	CERAMIC	47PF	5%	500V
C759	1-162-815-11	CERAMIC	47PF	5%	500V
C761	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C766	1-126-923-91	ELECT	220uF	20%	10V
C771	1-126-964-11	ELECT	10uF	20%	50V
C772	1-126-964-11	ELECT	10uF	20%	50V
C779	1-136-157-00	FILM	0.022uF	5%	50V
C901	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C902	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C903	1-126-936-11	ELECT	3300uF	20%	16V
C906	1-126-960-11	ELECT	1uF	20%	50V
C910	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C91 1	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C912	1-126-936-11	ELECT	3300uF	20%	16V
C920	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C921	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C922	1-126-943-11	ELECT	2200uF	20%	25V
C923	1-126-942-61	ELECT	1000uF	20%	25V
C930	1-135-851-21	MYLAR	0.22uF		100V
C931	1-135-851-21	MYLAR	0.22uF		100V
C932	1-165-946-11	ELECT (BLOCK)	6800uF	20%	71V
C933	1-165-946-11	ELECT (BLOCK)	6800uF	20%	71V
C8144	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C8147	1-126-947-91	ELECT	47uF	20%	10V
C8149	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
CC01 (AEP	1-162-927-11	CERAMIC CHIP	100PF	5%	50V , UK)
CC02 (AEP	1-162-927-11	CERAMIC CHIP	100PF	5%	50V , UK)
CC03 (AEP	1-162-927-11	CERAMIC CHIP	100PF	5%	50V , UK)
CC04 (AEP	1-162-927-11	CERAMIC CHIP	100PF	5%	50V , UK)
CC05 (AEP	1-162-927-11	CERAMIC CHIP	100PF	5%	50V , UK)
CC06 (AEP	1-162-927-11	CERAMIC CHIP	100PF	5%	50V , UK)
CC07 (AEP	1-162-927-11	CERAMIC CHIP	100PF	5%	50V , UK)
CC08 (AEP	1-162-927-11	CERAMIC CHIP	100PF	5%	50V , UK)
CC09	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
CC10	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
CC1 1 (AEP	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V , UK)
CC12 (AEP	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V , UK)
CC13 (AEP	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V , UK)
CC14 (AEP	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V , UK)
CC51 (AEP	1-162-927-11	CERAMIC CHIP	100PF	5%	50V , UK)
CC52 (AEP	1-162-927-11	CERAMIC CHIP	100PF	5%	50V , UK)
CC53 (AEP	1-162-927-11	CERAMIC CHIP	100PF	5%	50V , UK)

Ref. No.	Part No.	Description	Remark
CC54	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
(AEP		, UK)	
CC55	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
(AEP		, UK)	
CC56	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
(AEP		, UK)	
CC57	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
(AEP		, UK)	
CC58	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
(AEP		, UK)	
		< 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 >	
⚠ 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	
		< CONNECTOR >	
CNS200	1-779-277-11	CONNECTOR, FFC (LIF (NON-ZIF)) 9P	
CNS404	1-779-275-11	CONNECTOR, FFC (LIF (NON-ZIF)) 7P	
CNS600	1-784-776-11	CONNECTOR, FFC 15P	
CNS602	1-779-546-11	CONNECTOR, FFC (LIF (NON-ZIF)) 9P	
		< DIODE >	
D320	6-501-817-01	DIODE MA2J1110GLS0	
D325	6-501-817-01	DIODE MA2J1110GLS0	
D326	6-501-817-01	DIODE MA2J1110GLS0	
D327	6-501-817-01	DIODE MA2J1110GLS0	
D350	6-501-817-01	DIODE MA2J1110GLS0	
D352	8-719-053-18	DIODE 1SR154-400TE-25	
D355	6-501-817-01	DIODE MA2J1110GLS0	
D360	6-501-817-01	DIODE MA2J1110GLS0	
D602	6-501-817-01	DIODE MA2J1110GLS0	
D603	6-501-817-01	DIODE MA2J1110GLS0	
D605	8-719-053-18	DIODE 1SR154-400TE-25	
D711	6-501-817-01	DIODE MA2J1110GLS0	
D761	6-501-817-01	DIODE MA2J1110GLS0	
D901	6-501-817-01	DIODE MA2J1110GLS0	
D902	8-719-053-18	DIODE 1SR154-400TE-25	
D903	8-719-053-18	DIODE 1SR154-400TE-25	
D904	8-719-053-18	DIODE 1SR154-400TE-25	
D905	8-719-053-18	DIODE 1SR154-400TE-25	
D906	6-501-817-01	DIODE MA2J1110GLS0	
D907	6-501-817-01	DIODE MA2J1110GLS0	
D910	8-719-210-39	DIODE EC10QS04-TE12L5	
D911	8-719-210-39	DIODE EC10QS04-TE12L5	
D912	8-719-210-39	DIODE EC10QS04-TE12L5	
D913	8-719-210-39	DIODE EC10QS04-TE12L5	
D920	8-719-075-77	DIODE EC10DA40-TE12	
D921	8-719-075-77	DIODE EC10DA40-TE12	
D922	8-719-075-77	DIODE EC10DA40-TE12	
D923	8-719-075-77	DIODE EC10DA40-TE12	
D930	6-501-817-01	DIODE MA2J1110GLS0	
D931	8-719-081-52	DIODE D5SBA20-4003	
		< EARTH TERMINAL >	
* ET601	1-537-738-21	TERMINAL, EARTH	

Ref. No.	Part No.	Description	Remark
		< FUSE >	
⚠ F910	1-523-084-11	FUSE 2A	250V
⚠ F920	1-523-084-11	FUSE 2A	250V
⚠ F921	1-523-084-11	FUSE 2A	250V
		< FERRITE BEAD >	
FB600	1-400-862-11	BEAD, FERRITE	
FB601	1-400-862-11	BEAD, FERRITE	
FB603	1-400-862-11	BEAD, FERRITE	
		< FUSE HOLDER >	
FH901	1-533-217-41	HOLDER, FUSE	
FH902	1-533-217-41	HOLDER, FUSE	
		< IC >	
IC350	6-712-294-01	IC KIA7807API-U/PF	
IC352	6-712-295-01	IC KIA7907PI	
IC400	6-713-813-01	IC BD3474KS2	
IC600	6-808-585-01	IC MB90F1882APF-G-104E1	
IC601	6-713-627-01	IC BR24S16FJ -WE2	
IC602	6-702-913-01	IC S-80929CNMC-G8ZT2G	
IC604	6-705-468-01	IC BA33BC0FP-E2	
IC606	6-713-031-01	IC KIA7805API-U/PF	
IC607	6-712-108-01	IC KIA7806API-U/PF	
IC700	6-710-828-01	IC STK350-530T-E	
IC701	6-709-800-01	IC TA7809AF-(T6L1SONQ	
		< JACK >	
J401	1-794-981-11	JACK, PIN 4P (SA-CD/CD IN, MD/TAPE OUT)	
J402	1-794-981-11	JACK, PIN 4P (MD/TAPE IN, SAT IN)	
J403	1-774-411-11	JACK, PIN 6P (BD DVD IN, VIDEO1 IN/OUT)	
		< JUMPER RESISTOR >	
JR501	1-216-864-11	SHORT CHIP 0	
JR502	1-216-864-11	SHORT CHIP 0	
JR503	1-216-864-11	SHORT CHIP 0	
JR551	1-216-864-11	SHORT CHIP 0	
JR552	1-216-864-11	SHORT CHIP 0	
JR553	1-216-864-11	SHORT CHIP 0	
		< COIL >	
L728	1-420-872-52	COIL, AIR-CORE	
L778	1-420-872-52	COIL, AIR-CORE	
		< TRANSISTOR >	
Q323	8-729-216-31	TRANSISTOR 2SA1163-G	
Q324	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q325	8-729-271-31	TRANSISTOR 2SC2713-G	
Q350	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q355	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q360	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q702	8-729-230-91	TRANSISTOR 2SC3113-B-TP	
Q71 1	8-729-216-31	TRANSISTOR 2SA1163-G	
Q712	8-729-216-31	TRANSISTOR 2SA1163-G	
Q751	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q752	8-729-230-91	TRANSISTOR 2SC3113-B-TP	
Q761	8-729-216-31	TRANSISTOR 2SA1163-G	
Q762	8-729-216-31	TRANSISTOR 2SA1163-G	

MAIN

Ref. No.	Part No.	Description			Remark
Q901	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q906	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q930	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR >			
R323	1-216-840-11	METAL CHIP	39K	5%	1/10W
R324	1-216-809-11	METAL CHIP	100	5%	1/10W
R325	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R326	1-216-840-11	METAL CHIP	39K	5%	1/10W
R327	1-216-833-11	METAL CHIP	10K	5%	1/10W
R328	1-216-821-11	METAL CHIP	1K	5%	1/10W
R350	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R351	1-249-402-11	CARBON	56	5%	1/4W
R352	1-249-401-11	CARBON	47	5%	1/4W
R353	1-216-841-11	METAL CHIP	47K	5%	1/10W
R354	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R355	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R356	1-249-402-11	CARBON	56	5%	1/4W
R357	1-249-401-11	CARBON	47	5%	1/4W
R358	1-216-841-11	METAL CHIP	47K	5%	1/10W
R359	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R360	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R361	1-249-402-11	CARBON	56	5%	1/4W
R362	1-249-401-11	CARBON	47	5%	1/4W
R363	1-216-841-11	METAL CHIP	47K	5%	1/10W
R392	1-215-891-11	METAL OXIDE	680	5%	2W
R393	1-215-891-11	METAL OXIDE	680	5%	2W
R412	1-216-821-11	METAL CHIP	1K	5%	1/10W
R413	1-216-821-11	METAL CHIP	1K	5%	1/10W
R414	1-216-821-11	METAL CHIP	1K	5%	1/10W
R415	1-216-821-11	METAL CHIP	1K	5%	1/10W
R416	1-216-821-11	METAL CHIP	1K	5%	1/10W
R417	1-216-821-11	METAL CHIP	1K	5%	1/10W
R420	1-216-821-11	METAL CHIP	1K	5%	1/10W
R462	1-216-821-11	METAL CHIP	1K	5%	1/10W
R463	1-216-821-11	METAL CHIP	1K	5%	1/10W
R464	1-216-821-11	METAL CHIP	1K	5%	1/10W
R465	1-216-821-11	METAL CHIP	1K	5%	1/10W
R466	1-216-821-11	METAL CHIP	1K	5%	1/10W
R467	1-216-821-11	METAL CHIP	1K	5%	1/10W
R470	1-216-821-11	METAL CHIP	1K	5%	1/10W
R471	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R476	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R545	1-249-377-11	CARBON	0.47	5%	1/4W
R546	1-249-377-11	CARBON	0.47	5%	1/4W
R600	1-216-827-11	METAL CHIP	3.3K	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
R607	1-216-833-11	METAL CHIP	10K	5%	1/10W
R608	1-216-833-11	METAL CHIP	10K	5%	1/10W
R609	1-216-841-11	METAL CHIP	47K	5%	1/10W
(AEP					, UK)
R610	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
(AEP					, UK)
R610	1-216-864-11	SHORT CHIP	0 (US, CND)		
R613	1-216-864-11	SHORT CHIP	0		
R620	1-216-833-11	METAL CHIP	10K	5%	1/10W
R622	1-216-809-11	METAL CHIP	100	5%	1/10W
R626	1-216-833-11	METAL CHIP	10K	5%	1/10W
R628	1-216-833-11	METAL CHIP	10K	5%	1/10W
R629	1-216-833-11	METAL CHIP	10K	5%	1/10W
R630	1-216-809-11	METAL CHIP	100	5%	1/10W
R631	1-216-833-11	METAL CHIP	10K	5%	1/10W
R632	1-216-833-11	METAL CHIP	10K	5%	1/10W
R633	1-216-801-11	METAL CHIP	22	5%	1/10W
R634	1-216-809-11	METAL CHIP	100	5%	1/10W
R635	1-216-809-11	METAL CHIP	100	5%	1/10W
R637	1-216-813-11	METAL CHIP	220	5%	1/10W
(AEP					, UK)
R638	1-216-813-11	METAL CHIP	220	5%	1/10W
(AEP					, UK)
R640	1-216-821-11	METAL CHIP	1K	5%	1/10W
R641	1-216-821-11	METAL CHIP	1K	5%	1/10W
R644	1-216-809-11	METAL CHIP	100	5%	1/10W
R645	1-216-833-11	METAL CHIP	10K	5%	1/10W
R646	1-216-833-11	METAL CHIP	10K	5%	1/10W
R647	1-216-809-11	METAL CHIP	100	5%	1/10W
R648	1-216-841-11	METAL CHIP	47K	5%	1/10W
R649	1-216-821-11	METAL CHIP	1K	5%	1/10W
R650	1-216-839-11	METAL CHIP	33K	5%	1/10W
R651	1-216-809-11	METAL CHIP	100	5%	1/10W
R652	1-216-809-11	METAL CHIP	100	5%	1/10W
R653	1-216-839-11	METAL CHIP	33K	5%	1/10W
R654	1-216-839-11	METAL CHIP	33K	5%	1/10W
R655	1-216-833-11	METAL CHIP	10K	5%	1/10W
R656	1-216-864-11	SHORT CHIP	0		
R657	1-216-857-11	METAL CHIP	1M	5%	1/10W
R658	1-216-833-11	METAL CHIP	10K	5%	1/10W
R659	1-216-819-11	METAL CHIP	680	5%	1/10W
R660	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R661	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R662	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R663	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R666	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R667	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R675	1-216-833-11	METAL CHIP	10K	5%	1/10W
R676	1-216-809-11	METAL CHIP	100	5%	1/10W
R681	1-216-833-11	METAL CHIP	10K	5%	1/10W
R682	1-216-809-11	METAL CHIP	100	5%	1/10W
R683	1-216-833-11	METAL CHIP	10K	5%	1/10W
R684	1-216-809-11	METAL CHIP	100	5%	1/10W
R685	1-216-833-11	METAL CHIP	10K	5%	1/10W
R686	1-216-809-11	METAL CHIP	100	5%	1/10W
R701	1-216-821-11	METAL CHIP	1K	5%	1/10W
R702	1-216-843-11	METAL CHIP	68K	5%	1/10W
R703	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R704	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R706	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R707	1-216-844-11	METAL CHIP	82K	5%	1/10W
R708	1-216-818-11	METAL CHIP	560	5%	1/10W
R709	1-249-405-11	CARBON	100	5%	1/4W
R710	1-249-405-11	CARBON	100	5%	1/4W
R71 1	1-216-214-00	RES-CHIP	4.7K	2%	1/8W
R712	1-240-855-91	CARBON	6.2K	5%	1/4W
R713	1-234-182-11	ENCAPSULATED COMPONENT			
R714	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R715	1-216-835-11	METAL CHIP	15K	5%	1/10W
R716	1-216-843-11	METAL CHIP	68K	5%	1/10W
R728	1-249-389-11	CARBON	4.7	5%	1/4W

Ref. No.	Part No.	Description			Remark
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
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	100	5%	1/10W
R8157	1-216-833-11	METAL CHIP	10	5%	1/10W
R8163	1-216-864-11	SHORT CHIP	0		
R8164	1-216-864-11	SHORT CHIP	0		
RR1 1 (AEP	1-249-393-11	CARBON	10	5%	1/4W , UK)
RR12 (AEP	1-249-393-11	CARBON	10	5%	1/4W , UK)
RR13 (AEP	1-249-393-11	CARBON	10	5%	1/4W , UK)
RR14 (AEP	1-249-393-11	CARBON	10	5%	1/4W , UK)
		< RELAY >			
R Y350	1-755-416-12	RELAY			
R Y355	1-755-416-12	RELAY			
R Y360	1-755-416-12	RELAY			
⚠ RY901	1-755-541-11	RELAY			
R Y930	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)			
		< TERMINAL >			
TB401	1-537-376-11	TERMINAL BOARD (SP) (SPEAKER)			
		< VIBRATOR >			
X600	1-781-282-51	VIBRATOR, CERAMIC (4MHz)			

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Ref. No.	Part No.	Description			Remark
		POWER KEY BOARD			
		**********			
		< CAPACITOR >			
C151	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C153	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
		< CONNECTOR >			
* CNP102	1-564-508-11	PLUG, CONNECTOR 5P			
		< RESISTOR >			
R133	1-216-819-11	METAL CHIP	680	5%	1/10W
R134	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< VARIABLE RESISTOR >			
RV101	1-418-817-21	ENCODER, ROTARY (INPUT SELECTOR)			
		< SWITCH >			
S120	1-771-410-21	SWITCH, TACTILE (SPEAKERS OFF/A/B/A+B)			
S153	1-771-410-21	SWITCH, TACTILE (I/⏻)			
S154	1-771-410-21	SWITCH, TACTILE (FM MODE)			

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		MISCELLANEOUS
		**********
57	1-921-220-31	WIRE (FLAT TYPE) (15 CORE)
101	1-823-669-11	WIRE (FLAT TYPE) (11 CORE) (AEP, UK)
101	1-828-956-11	WIRE (FLAT TYPE) (9 CORE) (US, CND)
104	1-834-270-11	CORD, POWER (US, CND)
104	1-777-071-83	CORD, POWER (AEP, UK)
105	1-828-309-51	WIRE (FLAT TYPE) (9 CORE)
106	1-770-019-71	ADAPTOR, CONVERSION PLUG 3P (UK)
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	1-445-619-11	POWER TRANSFORMER (US, CND)
⚠ T901	1-445-620-11	POWER TRANSFORMER (AEP, UK)
Q703	6-702-390-01	IC MN2488-OPY-MK
Q704	6-702-391-01	IC MP1620-OPY-MK
Q705	6-702-390-01	IC MN2488-OPY-MK
Q706	6-702-391-01	IC MP1620-OPY-MK

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		ACCESSORIES
		**********
	1-487-352-11	REMOTE COMMANDER, RM-AAU055 (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) (FM) (US, CND)
	4-129-741-12	MANUAL, INSTRUCTION (ENGLISH)
	4-129-741-21	MANUAL, INSTRUCTION (FRENCH) (CND, AEP)
	4-129-741-32	MANUAL, INSTRUCTION (SPANISH) (US/AEP)
	4-129-741-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH) (AEP)
	4-129-741-51	MANUAL, INSTRUCTION (ITALIAN, POLISH) (AEP)
	4-129-741-61	MANUAL, INSTRUCTION (DANISH, FINNISH) (AEP)

Ref. No.	Part No.	Description	Remark
	4-129-741-71	MANUAL, INSTRUCTION (PORTUGUESE) (AEP)	
	4-129-741-81	MANUAL, INSTRUCTION (RUSSIAN) (AEP)	
	4-140-548-11	MANUAL, INSTRUCTION (GREEK) (AEP)	
	4-140-548-21	MANUAL, INSTRUCTION (TURKISH) (AEP)	
	4-140-548-31	MANUAL, INSTRUCTION (HUNGARIAN, CZECH) (AEP)	
	4-140-548-41	MANUAL, INSTRUCTION (SLOVAKIAN) (AEP)	

Ref. No.	Part No.	Description	Remark

REVISION HISTORY

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Ver.	Date	Description of Revision
1.0	2009.02	New