

STR-K990

SERVICE MANUAL

Ver. 1.1 2008.08

US Model
Canadian Model



- STR-K990 is the tuner and the amplifier section in HT-DDW990.

This receiver incorporates Dolby* Digital and Pro Logic Surround and the DTS** Digital Surround System.

* Manufactured under license from Dolby Laboratories.

“Dolby”, “Pro Logic” and the double-D symbol are trademarks of Dolby Laboratories.

** “DTS” and “DTS Digital Surround” are registered trademarks of DTS, Inc.

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

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

With 6 ohm loads, both channels driven, from 120 – 20,000 Hz; rated 90 watts per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Power Output¹⁾

Stereo mode (6 ohms, 1 kHz, THD 1%)
90 W + 90 W

Surround mode²⁾ (reference) (6 ohms, 1 kHz, THD 10%)

RMS output
FRONT: 140 W per channel
CENTER: 140 W
SURROUND: 140 W per channel

¹⁾ Measured under the following conditions:

Area code	Power requirements
US, Canadian	120 V AC, 60 Hz

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

Inputs

Analog Sensitivity: 800 mV/
50 kohms

Digital (Coaxial) Impedance: 75 ohms

Outputs (Analog)

AUDIO OUT Voltage: 800 mV/
10 kohms

SUB WOOFER Voltage: 2 V/1 kohm

Tone

Gain levels ±6 dB, 1 dB step

Reproduction frequency range:

28 – 20,000 Hz

FM tuner section

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

AM tuner section

Tuning range

With 10-kHz tuning scale:
530 – 1,710 kHz³⁾

With 9-kHz tuning scale:
531 – 1,710 kHz³⁾

Antenna Loop antenna

Intermediate frequency
450 kHz

³⁾ You can change the AM tuning scale to 9 kHz or 10 kHz. After tuning in any AM station, turn off the receiver. While holding down TUNING MODE, press I/⏻. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat the procedure.

— Continued on next page —

MULTI CHANNEL AV RECEIVER

Video section

Inputs/Outputs

- Video:1 Vp-p, 75 ohms
- COMPONENT VIDEO:
- Y: 1 Vp-p, 75 ohms
- P_B/C_B: 0.7 Vp-p, 75 ohms
- P_R/C_R: 0.7 Vp-p, 75 ohms
- 80 MHz HD Pass Through

General

Power requirements

Area code	Power requirements
US, Canadian	120 V AC, 60 Hz

Power output (DIGITAL MEDIA PORT)

- DC OUT:5V, 700 mA

Power consumption

Area code	Power consumption
US	200 W
Canadian	270 VA

Power consumption (during standby mode)

0.3 W

Dimensions (width/height/depth) (Approx.)

17 × 6 1/4 × 12 1/4 inches
(430 × 157.5 × 310 mm)
including projecting parts
and controls

Mass (Approx.)

17 lb 4 oz (7.8 kg)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

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)

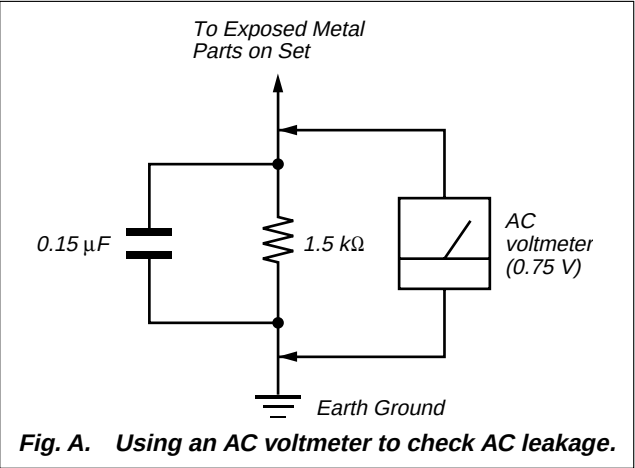


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT
À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  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 DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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

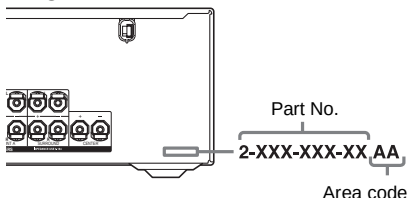
Unleaded solder has the following characteristics.

- 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.

About area codes

The area code of the receiver you purchased is shown on the lower right portion of the rear panel (see the illustration below).

BACK PANEL



Any differences in operation, according to the area code, are clearly indicated in the text, for example, "Models of area code AA only".

Moreover, it is possible to distinguish the model by Part No..

Model	Part No.
US Model	2-897-800-7□
Canadian Model	2-897-800-8□

TABLE OF CONTENTS

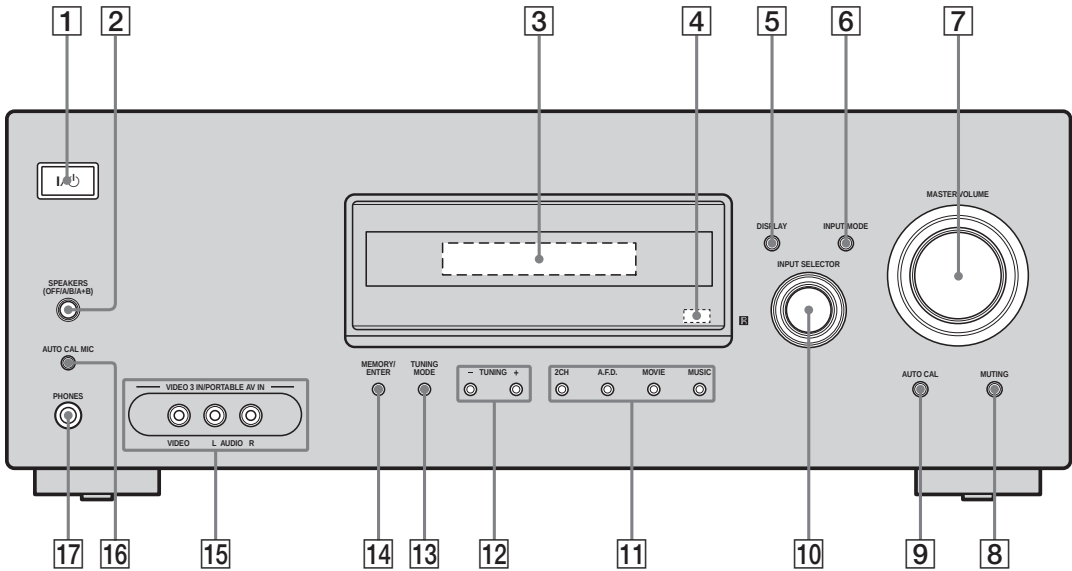
1. GENERAL	4
2. TEST MODE	11
3. ELECTRICAL ADJUSTMENT	13
4. DIAGRAMS	14
4-1. Block Diagram – MAIN Section –	15
4-2. Block Diagram – DISPLAY/POWER Section –	16
4-3. Printed Wiring Board – DIGITAL Board (Side A) –	17
4-4. Printed Wiring Board – DIGITAL Board (Side B) –	18
4-5. Schematic Diagram – DIGITAL Board (1/5) –	19
4-6. Schematic Diagram – DIGITAL Board (2/5) –	20
4-7. Schematic Diagram – DIGITAL Board (3/5) –	21
4-8. Schematic Diagram – DIGITAL Board (4/5) –	22
4-9. Schematic Diagram – DIGITAL Board (5/5) –	23
4-10. Printed Wiring Board – MAIN Board –	24
4-11. Schematic Diagram – MAIN Board (1/4) –	25
4-12. Schematic Diagram – MAIN Board (2/4) –	26
4-13. Schematic Diagram – MAIN Board (3/4) –	27
4-14. Schematic Diagram – MAIN Board (4/4) –	28
4-15. Printed Wiring Boards – DISPLAY Board, POWER KEY Board –	29
4-16. Schematic Diagram – DISPLAY Board, POWER KEY Board –	30
4-17. Printed Wiring Boards – STANDBY Board, DCDC Board –	31
4-18. Schematic Diagram – STANDBY Board, DCDC Board –	32
4-19. Printed Wiring Boards – DCAC Board, VIDEO3 Board –	33
4-20. Schematic Diagram – DCAC Board, VIDEO3 Board –	34
4-21. Printed Wiring Boards – VIDEO Board, HEADPHONE Board –	35
4-22. Schematic Diagram – VIDEO Board, HEADPHONE Board –	36
4-23. Printed Wiring Board – HDMI SW Board –	37
4-24. Schematic Diagram – HDMI SW Board –	38
5. EXPLODED VIEWS	
5-1. Front Panel Section	47
5-2. Chassis Section	48
6. ELECTRICAL PARTS LIST	49

SECTION 1
GENERAL

This section is extracted
from instruction manual.

Receiver

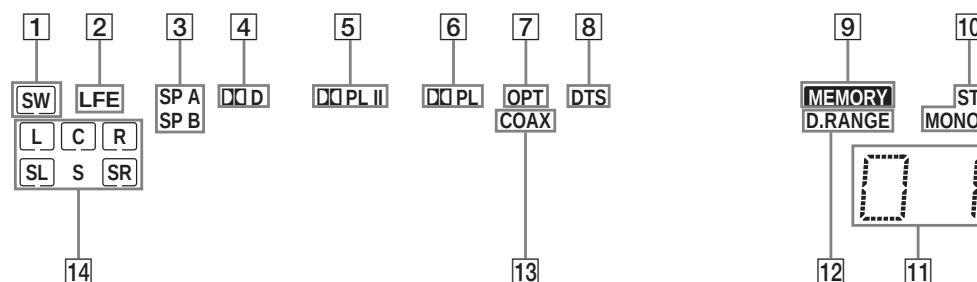
Front panel



Name	Function
1 I/⏻ (on/standby)	Press to turn the receiver on or off (page 29, 38, 39, 54).
2 SPEAKERS (OFF/A/B/A+B)	Press to select the speaker system (page 30).
3 Display	The current status of the selected component or a list of selectable items appears here (page 7).
4 Remote sensor	Receives signals from remote commander.
5 DISPLAY	Press to select information displayed on the display (page 63).
6 INPUT MODE	Press to select the input mode when the same components are connected to both digital and analog jacks (page 59).
7 MASTER VOLUME	Turn to adjust the volume level of all speakers at the same time (page 35, 36, 38, 39).
8 MUTING	Press to mute the sound (page 36).
9 AUTO CAL	Press to activate the Auto Calibration function (page 32).
10 INPUT SELECTOR	Turn to select the input source to playback (page 36).

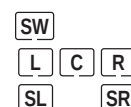
Name	Function
11 2CH A.F.D. MOVIE MUSIC	Press to select a sound field (page 49, 51, 54).
12 TUNING +/-	Press to scan a station (page 55, 58).
13 TUNING MODE	Press to select the tuning mode (page 55, 58).
14 MEMORY/ ENTER	Press to store a station or enter the selection when selecting the settings (page 29, 57).
15 VIDEO 3 IN/ PORTABLE AV IN jacks	Connects to a camcorder or video game (page 27, 36).
16 AUTO CAL MIC jack	Connects to the supplied optimizer microphone for the Auto Calibration function (page 31).
17 PHONES jack	Connects to headphones (page 73).

About the indicators on the display

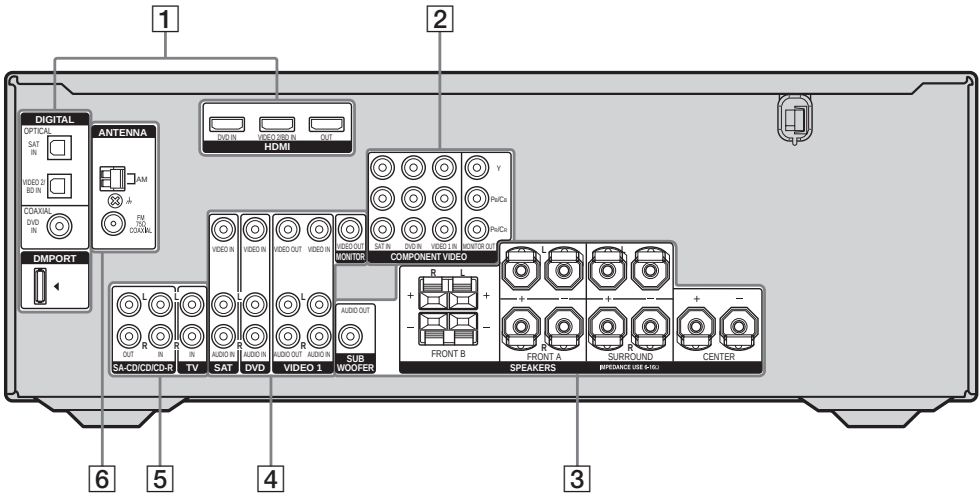


Name	Function
1 SW	Lights up when the audio signal is output from the SUB WOOFER jack.
2 LFE	Lights up when the disc being played back contains an LFE (Low Frequency Effect) channel and the LFE channel signal is actually being reproduced.
3 SP A/SP B	Lights up according to the speaker system used (page 30). However, these indicators do not light up if the speaker output is turned off or if headphones are connected.
4 DDD	Lights up when the receiver is decoding Dolby Digital signals. Note When playing a Dolby Digital format disc, be sure that you have made digital connections and that INPUT MODE is not set to "ANALOG" (page 59).
5 DPL II	Lights up when the Pro Logic II Movie/Music decoder is activated.
6 DPL	Lights up when the receiver applies Pro Logic processing to 2 channel signals in order to output the center and surround channel signals.
7 OPT	Lights up when VIDEO 2 input is selected. However, "UNLOCK" appears on the display if no digital signal is input through the OPTICAL jack. "OPT" also lights up when SAT input is selected if – INPUT MODE is set to "AUTO IN" and the source signal is a digital signal being input through the OPTICAL jack. – INPUT MODE is set to "OPT IN" (page 59).
8 DTS	Lights up when the receiver is decoding DTS signals. Note When playing a DTS format disc, be sure that you have made digital connections and that INPUT MODE is not set to "ANALOG" (page 59).

Name	Function
9 MEMORY	Lights up when a memory function, such as Preset Memory (page 56), etc., is activated.
10 Tuner indicators	Lights up when using the receiver to tune in radio stations (page 55), etc.
11 Preset station indicators	Lights up when using the receiver to tune in preset radio stations. For details on presetting radio stations, see page 56.
12 D.RANGE	Lights up when dynamic range compression is activated (page 41).
13 COAX	Lights up when INPUT MODE is set to "AUTO IN" and the source signal is a digital signal being input through the COAXIAL jack, or when INPUT MODE is set to "COAX IN" (page 59).
14 Playback channel indicators	The letters (L, C, R, etc.) indicate the channels being played back. The boxes around the letters vary to show how the receiver downmixes the source sound. L Front Left R Front Right C Center (monaural) SL Surround Left SR Surround Right S Surround (monaural or the surround components obtained by Pro Logic processing) Example: Recording format (Front/Surround): 3/2.1 Sound Field: A.F.D. AUTO



Rear panel



1 DIGITAL INPUT/OUTPUT section		
	OPTICAL IN jacks	Connects to a DVD player, etc. The COAXIAL jack provides a better quality of loud sound (page 21, 24, 26).
	COAXIAL IN jack	
	HDMI IN/OUT jacks*	Connects to a DVD player or a Blu-ray disc player. The image and the sound are output to a TV or a projector (page 21).
	DMPort jack	Connects to a DIGITAL MEDIA PORT adapter (page 61).

2 COMPONENT VIDEO INPUT/OUTPUT section		
	COMPONENT VIDEO INPUT/OUTPUT jacks*	Connects to a DVD player, TV, satellite tuner, etc. You can enjoy high quality image (page 23–26).

3 SPEAKERS section	
	Connects to speakers (page 17).
	Connects to sub woofer (page 17).

4 VIDEO/AUDIO INPUT/OUTPUT section		
	AUDIO IN/OUT jacks	Connects to the video and audio jacks of a VCR, DVD player, etc. (page 23–27).
	VIDEO IN/OUT jacks*	

5 AUDIO INPUT/OUTPUT section		
	AUDIO IN/OUT jacks	Connects to a Super Audio CD player, CD recorder, etc. (page 19, 23).

6 ANTENNA section		
	FM ANTENNA jack	Connects to the FM wire antenna supplied with this receiver (page 28).
	AM ANTENNA terminals	Connects to the AM loop antenna supplied with this receiver (page 28).

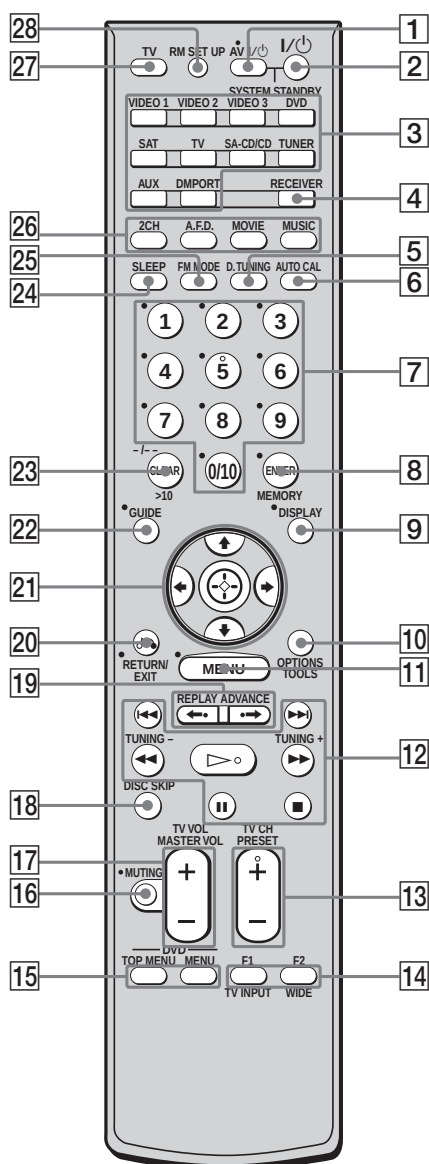
* You can watch the selected input image when you connect the HDMI OUT or MONITOR OUT jack to a TV (page 23).

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.

You can also program the remote to control non-Sony audio/video components. For details, see “Programming the remote” (page 65).

RM-AAP017



Name	Function
1 AV I/⏻ (on/standby)	Press to turn on or off the audio/video components that the remote is programmed to operate. To turn the TV on or off, press TV (27) and then press AV I/⏻. 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 as follows. You can program the remote to control non-Sony components following the steps in “Programming the remote” on page 65.
Button	Assigned Sony component
VIDEO 1	VCR (VTR mode 3)
VIDEO 2	VCR (VTR mode 2)
VIDEO 3	VCR (VTR mode 1)
DVD	DVD player
SAT	Satellite tuner
TV	TV
SA-CD/CD	Super Audio CD/CD player
TUNER	Built-in tuner
AUX	Not assigned
DMPORT	DIGITAL MEDIA PORT adapter

Name	Function
4 RECEIVER	Press to activate the receiver operation (page 40).
5 D.TUNING	Press to enter direct tuning mode.
6 AUTO CAL	Press to activate the Auto Calibration function.
7 Numeric buttons (number 5^a)	Press to – preset/tune to preset stations. – select track numbers of the CD player, VCD player, LD player, DVD player, MD deck, DAT deck, or tape deck. Press 0/10 to select track number 10. – select channel numbers of the VCR, satellite tuner, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or DVD/HDD COMBO. Press TV (27) and then press the numeric buttons to select the TV channels.
8 ENTER	Press to enter the value after selecting a channel, disc or track using the numeric buttons of the VCR, CD player, VCD player, LD player, MD deck, DAT deck, tape deck, satellite tuner, Blu-ray disc recorder, or PSX. To enter the value of Sony TV, press TV (27) and then press ENTER.
MEMORY	Press to store a station during tuner operation.
9 DISPLAY	Press to select information displayed on the TV screen of the VCR, VCD player, LD player, DVD player, CD player, MD deck, Blu-ray disc recorder, PSX, satellite tuner, DVD/VHS COMBO, or DVD/HDD COMBO. To select information of Sony TV, press TV (27) and then press DISPLAY.

Name	Function
10 OPTIONS TOOLS	Press to display and select items from the option menus for DVD player or DVD/VHS COMBO. To display the options of Sony TV, press TV (27) and then press OPTIONS TOOLS.
11 MENU	Press to display the menus of the receiver, VCR, DVD player, satellite tuner, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or DVD/HDD COMBO on the TV screen. Then, use  /  /  /  and  to perform menu operations. To display the menus of Sony TV, press TV (27) and then press MENU.
12 /  ^{b)}	Press to skip tracks of the VCR, CD player, VCD player, LD player, DVD player, MD deck, DAT deck, tape deck, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or DVD/HDD COMBO.
/  ^{b)}	Press to – search tracks in the forward/backward direction of the CD player, VCD player, DVD player, LD player, MD deck, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or DVD/HDD COMBO. – fast forward/rewind of the VCR, DAT deck, or tape deck.
 ^{a)b)}	Press to start playback of the VCR, CD player, VCD player, LD player, DVD player, MD deck, DAT deck, tape deck, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or DVD/HDD COMBO.

Name	Function
■^{b)}	Press to pause playback or recording of the VCR, CD player, VCD player, LD player, DVD player, MD deck, DAT deck, tape deck, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or DVD/HDD COMBO. (Also starts recording with components in recording standby.)
■^{b)}	Press to stop playback of the VCR, CD player, VCD player, LD player, DVD player, MD deck, DAT deck, tape deck, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or DVD/HDD COMBO.
TUNING +/-	Press to scan a station.
13 TV CH +^{a)}/-	Press TV (27) and then press TV CH +/- to select preset TV channels.
PRESET +^{a)}/-	Press to – select preset stations. – select preset channels of the VCR, satellite tuner, Blu-ray disc recorder, DVD player, DVD/VHS COMBO, or DVD/HDD COMBO.
14 F1, F2	Press F1 or F2 to select a component. • DVD/HDD COMBO F1: HDD mode F2: DVD mode • DVD/VHS COMBO F1: DVD mode F2: VHS mode
TV INPUT	Press TV (27) and then press TV INPUT to select the input signal (TV input or video input).
WIDE	Press TV (27) and then press WIDE to select the wide picture mode.

Name	Function
15 DVD TOP MENU	Press to display the menu or on-screen guide of the DVD player on the TV screen. Then, use $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ and $\oplus$ to perform menu operations.
DVD MENU	Press to display the menu of the DVD player on the TV screen. Then, use $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ and $\oplus$ to perform menu operations.
16 MUTING	Press to mute the sound (page 36). To mute the sound of the TV, press TV (27) and then press MUTING.
17 TV VOL +/-	Press TV (27) and then press TV VOL +/- to adjust the TV volume level.
MASTER VOL +/-	Press to adjust the volume level of all speakers at the same time.
18 DISC SKIP	Press to skip disc of the CD player, VCD player, DVD player, or MD deck (multi-disc changer only).
19 REPLAY $\blacktriangleleft$/ ADVANCE $\blacktriangleright$	Press to replay the previous scene or fast forward the current scene of the DVD player, Blu-ray disc recorder, DVD/VHS COMBO, or DVD/HDD COMBO.
20 RETURN/ EXIT $\curvearrowright$	Press to – return to the previous menu. – exit the menu while the menu or on-screen guide of the VCD player, LD player, DVD player, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or satellite tuner is displayed on the TV screen. To return to the previous menu of Sony TV, press TV (27) and then press RETURN/EXIT $\curvearrowright$.

Name	Function
21  , 	After pressing RECEIVER (4), press MENU (11) for receiver operation, then press  to select the settings. After pressing DVD TOP MENU (15) or DVD MENU (15), press  to select the settings, and then press  to enter the selection. Press  also to enter the selection of the receiver, VCR, satellite tuner, DVD player, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or DVD/HDD COMBO.
22 GUIDE	Press to display the EPG (Electronic Program Guide) of the TV, DVD player, satellite tuner, Blu-ray disc recorder, PSX, or DVD/HDD COMBO.
23 CLEAR	Press to clear a mistake when you press the incorrect numeric button of the DVD player, Blu-ray disc recorder, PSX, satellite tuner, DVD/VHS COMBO, or DVD/HDD COMBO.
-/--	Press to select the channel entry mode, either one or two digit of the VCR or satellite tuner. To select the channel entry mode of the TV, press TV (27) and then press -/--.
>10	Press to select track numbers over 10 of the CD player, VCD player, LD player, MD deck, tape deck, TV, VCR, or satellite tuner.
24 SLEEP	Press to activate the Sleep Timer function and the duration which the receiver turns off automatically.
25 FM MODE	Press to select FM monaural or stereo reception.
26 2CH	Press to select a sound field (page 49, 51, 54)
A.F.D.	
MOVIE	
MUSIC	

Name	Function
27 TV	Press to light up the button. It changes the remote key function to activate the buttons with orange printing. It also activate the DISPLAY (9), OPTIONS TOOLS (10), MENU (11), RETURN/EXIT  (20),  (21), and  (21) buttons to perform menu operations for Sony TVs only.
28 RM SET UP	Press to set up the remote.

a) The number 5, TV CH +, PRESET + 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.
- The AUX button on the remote is not available for receiver operation.

SECTION 2 TEST MODE

SOUND FIELD CLEAR MODE

The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

Procedure:

1. While depressing the **[2CH]** button, press the power **[I/⏻]** button to turn on the main power.
2. The message "S.F. CLR." appears and initialization is performed. (3 second)

SOFTWARE VERSION DISPLAY MODE

The software version is displayed.

Procedure:

1. While depressing the **[SPEAKERS (OFF/A/B/A+B)]** and the **[DISPLAY]** buttons simultaneously, press the power **[I/⏻]** button to turn on the main power.
2. The model name, destination and the software version are displayed. (8 second)

KEY CHECK MODE

Button check

Procedure:

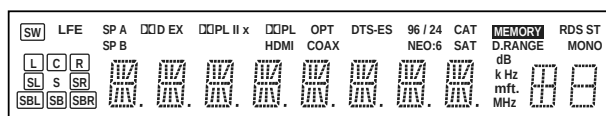
1. While depressing the **[SPEAKERS (OFF/A/B/A+B)]** and the **[2CH]** buttons simultaneously, press the power **[I/⏻]** button to turn on the main power.
"REST 13" appears.
2. Every pressing of any button other than **[I/⏻]** counts down the buttons. The buttons which are already counted once are not counted again.
3. When all buttons are pressed "REST 00" appears.

FLUORESCENT INDICATOR TUBE TEST MODE

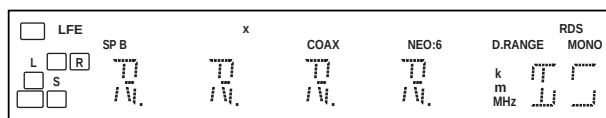
All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.

Procedure:

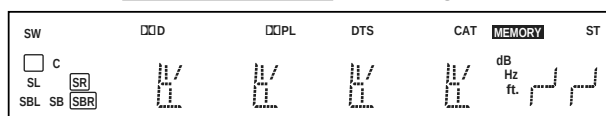
1. While depressing the **[TUNING MODE]** and the **[DISPLAY]** buttons simultaneously, press the power **[I/⏻]** button to turn on the main power.
2. All segments turn on.



3. Turn the **[INPUT SELECTOR]** dial.



4. Turn the **[INPUT SELECTOR]** dial once again.



5. Turn the **[INPUT SELECTOR]** dial once again. All segments turn off.
6. Every turning of the **[INPUT SELECTOR]** dial turns on each segment one after another in the same order.

SWAP ALL MODE

The signal will be swapped to all channels so that all speakers will have sound output.

Procedure:

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

SHIPMENT MODE

All preset contents are reset to the default setting.

Procedure:

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

PROTECTOR

If an error occurs, the "Protector Display" will flash for a while and the power is turned OFF.

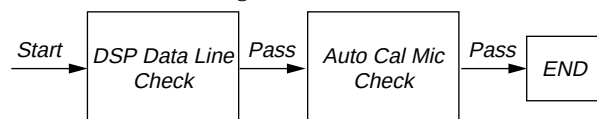
Procedure:

1. While depressing the **[TUNING MODE]** and the **[A.F.D.]** buttons simultaneously, press the power **[I/⏻]** button to turn on the main power.
2. "PROT. EVER" appears (3 seconds).

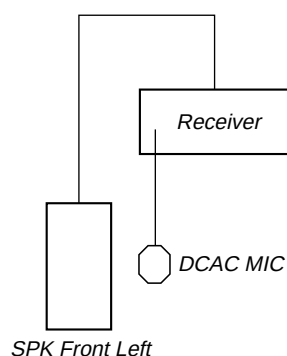
DCAC FACTORY TEST MODE

DCAC Factory Test mode have two stages:

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



Factory Test System Setup



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

1. DCAC DSP Data Line Checking

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

“DCAC□□□x” x = 1, 2, 3

If there is error happen, below display will show:

“ERR□SD0x” x = 1 → D1501 or R1530

 x = 2 → D1502 problem

 x = 3 → D1503 problem

2. DCAC board Checking

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

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

VACS CONTROL

The VACS feature of the amplifier is turned off purposely.

Procedure:

1. While depressing the **MEMORY/ENTER** and the **2CH** buttons simultaneously, press the power **I/⏻** button to turn on the main power.
2. “VACS OFF” appears. (8 second)

AM CHANNEL STEP 9 kHz/10 kHz

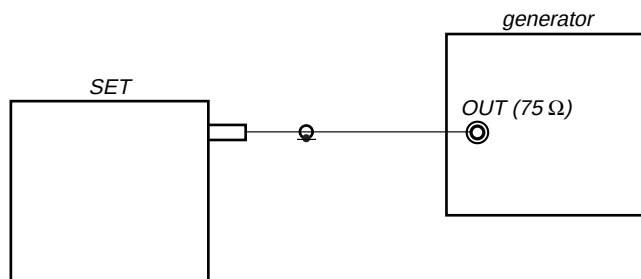
SELECTION MODE

- Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.
- Procedure:
Set the FUNCTION to AM. Turn off the main power.
While depressing the **TUNING MODE** button, press the power **I/⏻** button to turn on the main power. Either the message “9 k STEP” or “10 k STEP” appears. Select the desired step.

SECTION 3 ELECTRICAL ADJUSTMENT

TUNER SECTION

[FM Auto Stop Check]



Procedure:

1. Turn the power on.
2. Input the following signal from Signal Generator to FM antenna input directly.

* Carrier Freq : 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 4 DIAGRAMS

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

For Schematic Diagrams.

Note:

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

Note:

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

Note:

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

For Printed Wiring Boards.

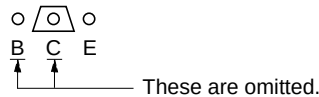
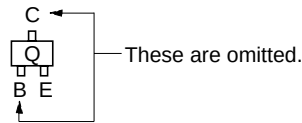
Note:

-  : parts extracted from the component side.
- $\circ$: Through hole.
- Δ : internal component.
-  : Pattern from the side which enables seeing.

Caution:

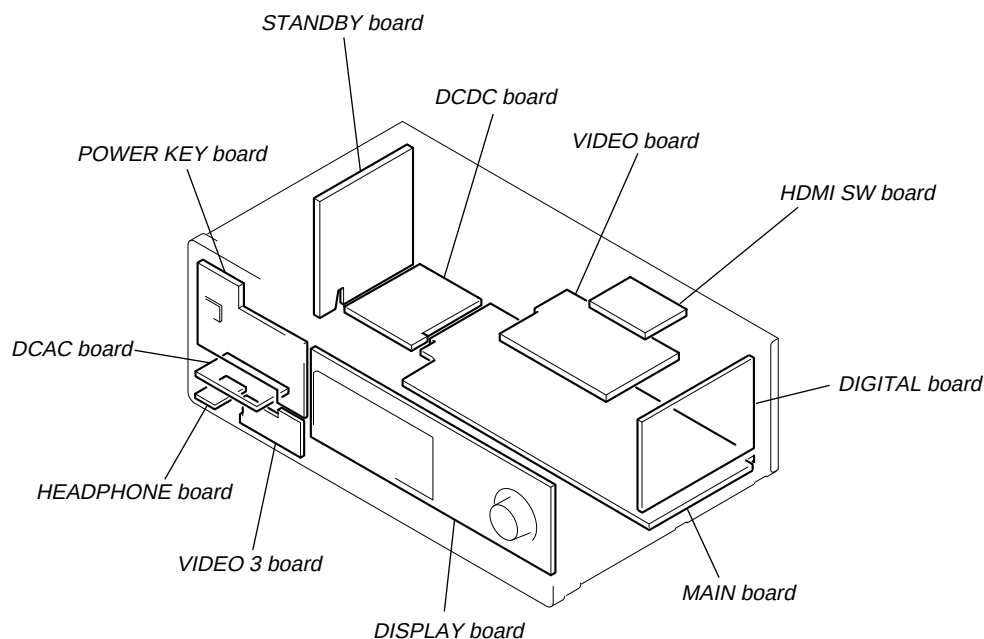
Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.
(Side B)
Parts face side: Parts on the parts face side seen from the parts face are indicated.
(Side A)

- Indication of transistor.

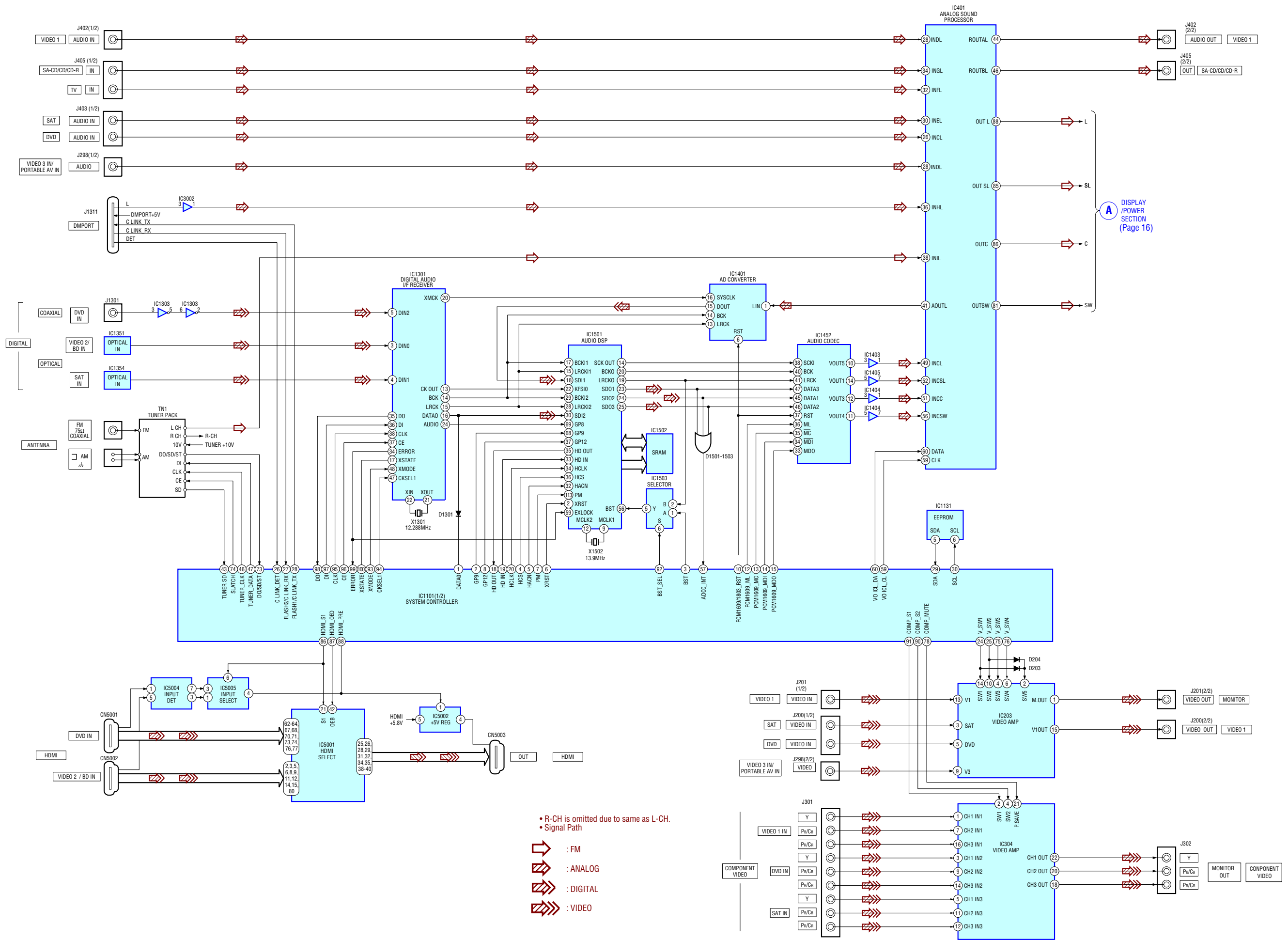


-  : B+ Line.
-  : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
No mark : FM
- Voltages are taken with a VOM (Input impedance 10 M Ω).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
-  : FM
-  : ANALOG
-  : DIGITAL
-  : VIDEO

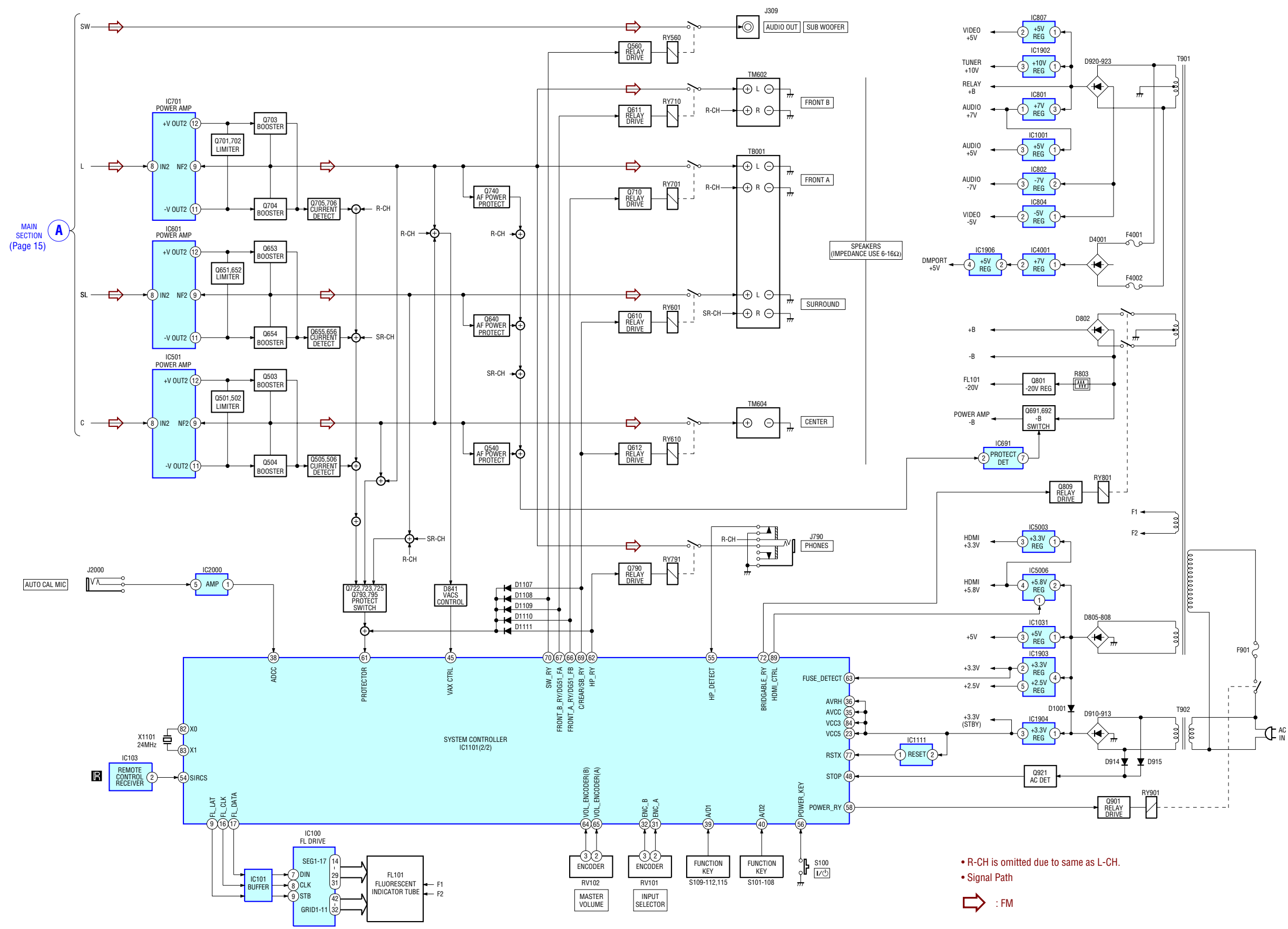
• Circuit Boards Location



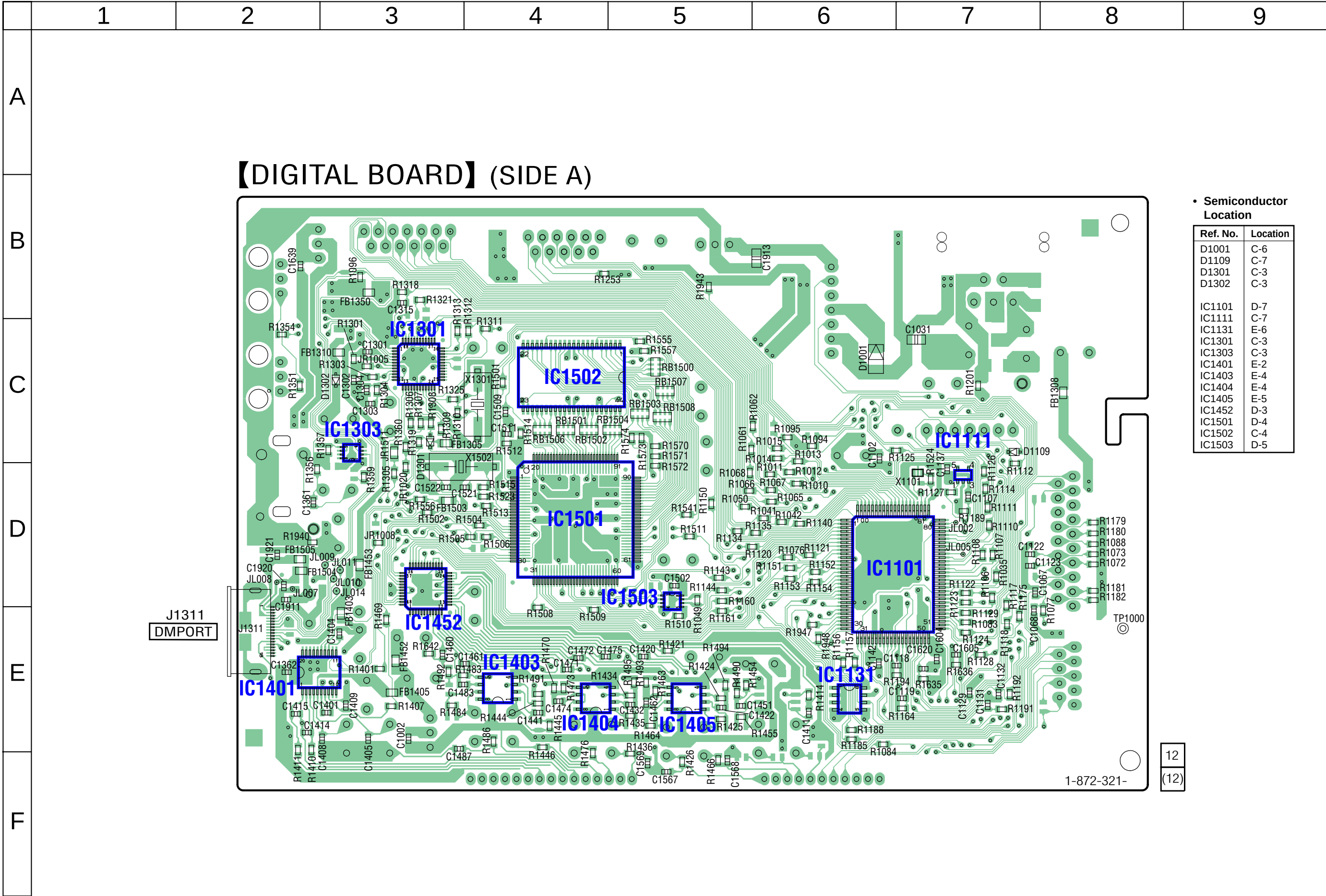
4-1. BLOCK DIAGRAM – MAIN SECTION –



4-2. BLOCK DIAGRAM – DISPLAY/POWER SECTION –

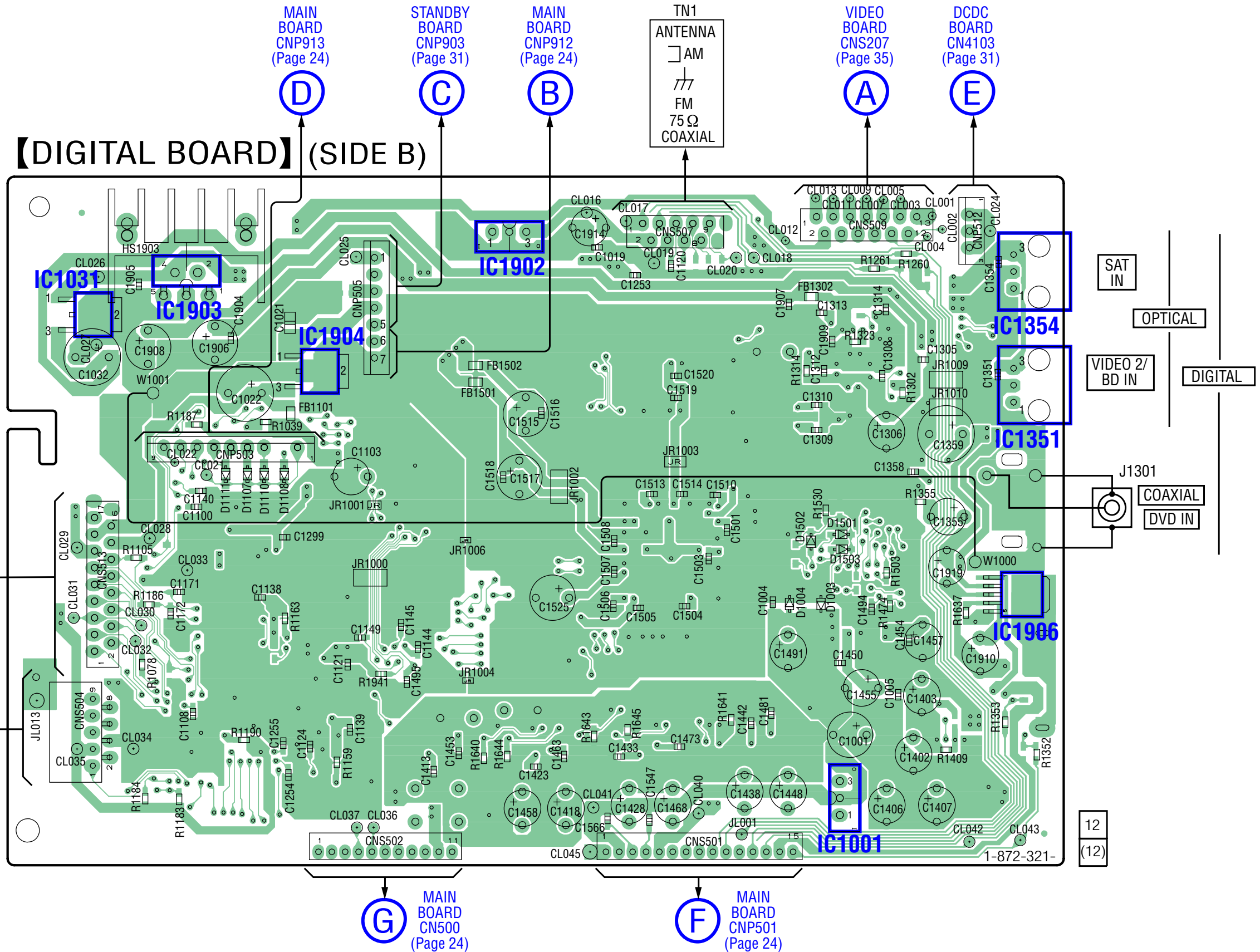
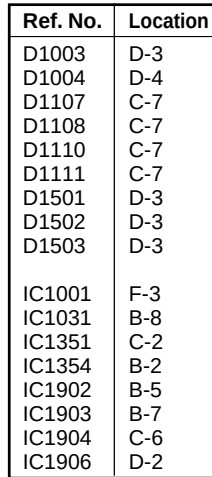


4-3. PRINTED WIRING BOARD – DIGITAL BOARD (SIDE A) – • See page 14 for Circuit Boards Location. :Uses unleaded solder.



- See page 14 for Circuit Boards Location.

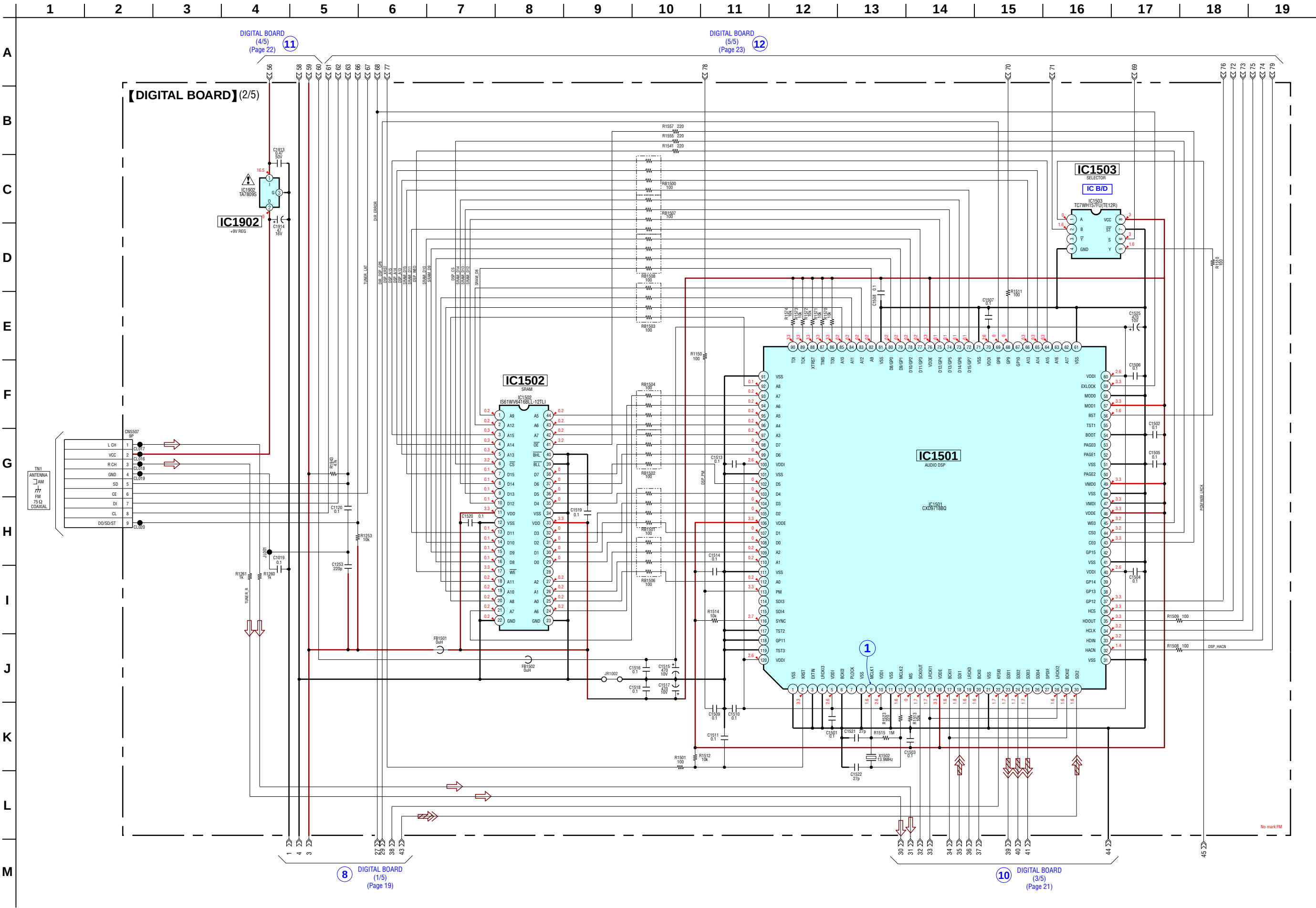
4 :Uses unleaded solder.



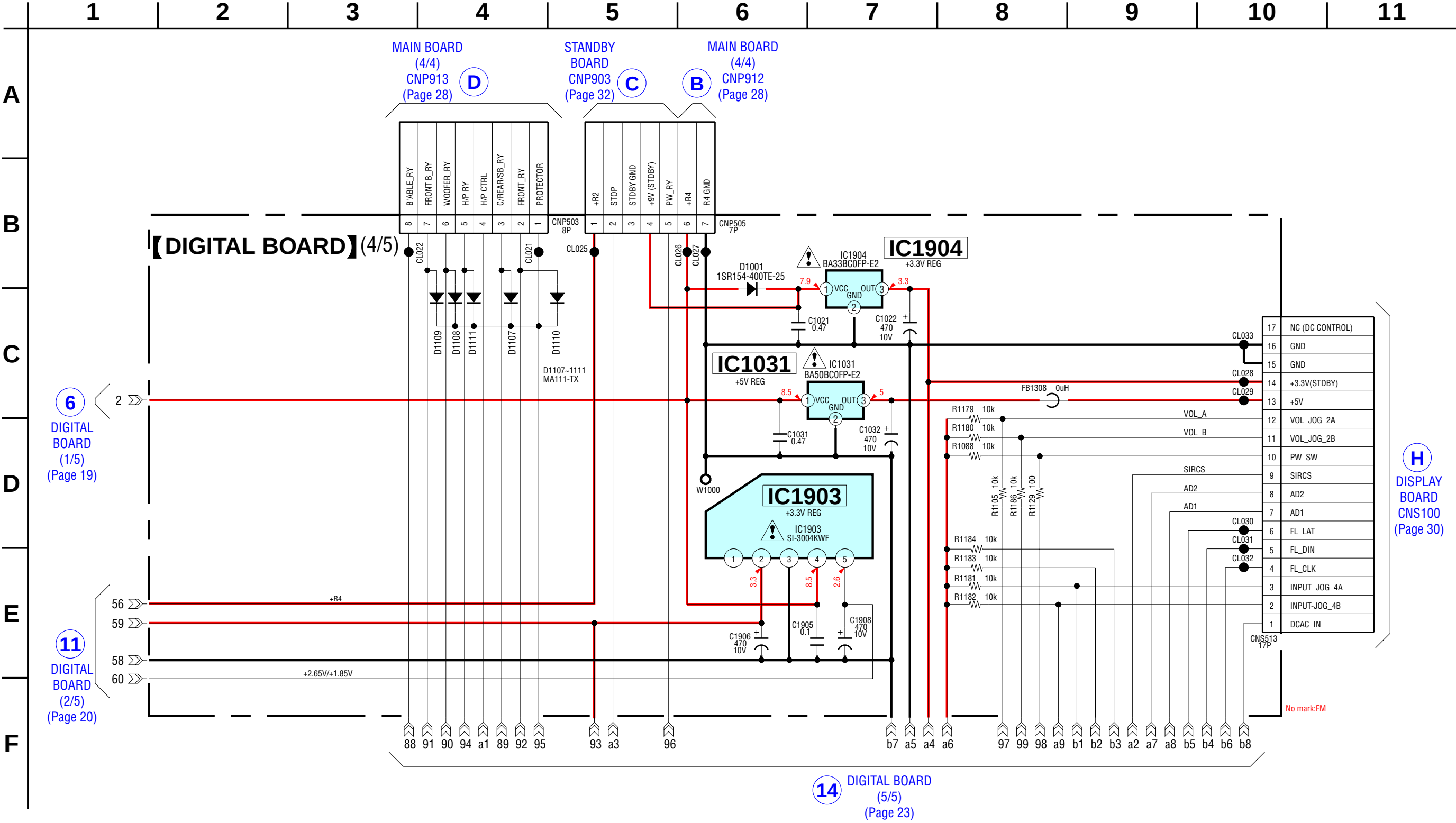
19



4-6. SCHEMATIC DIAGRAM – DIGITAL BOARD (2/5) – • See page 39 for Waveform. • See page 39 for IC Block Diagram.



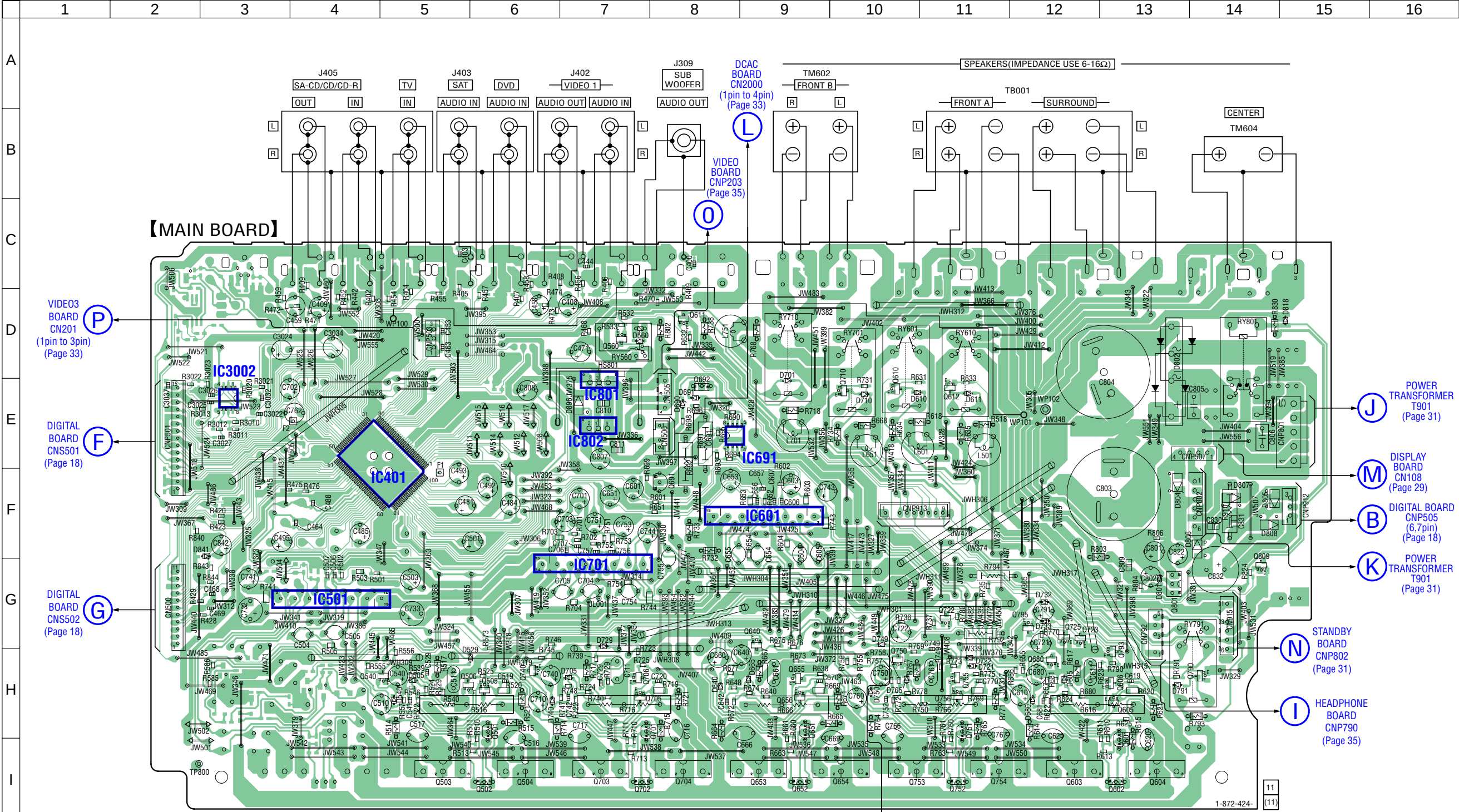
4-8. SCHEMATIC DIAGRAM – DIGITAL BOARD (4/5) –



23



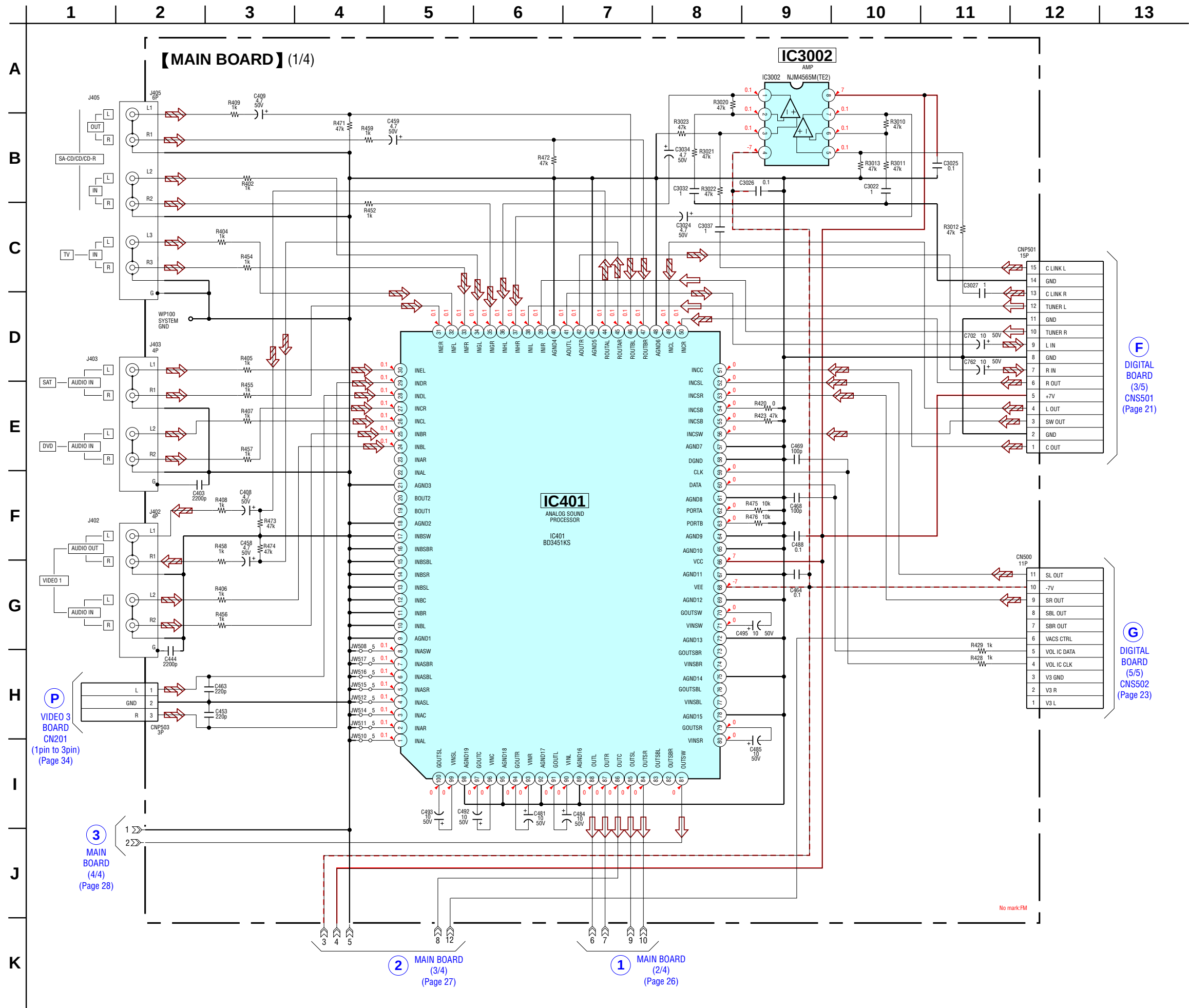
G
MAIN
BOARD
(1/4)
CN500
(Page 25)

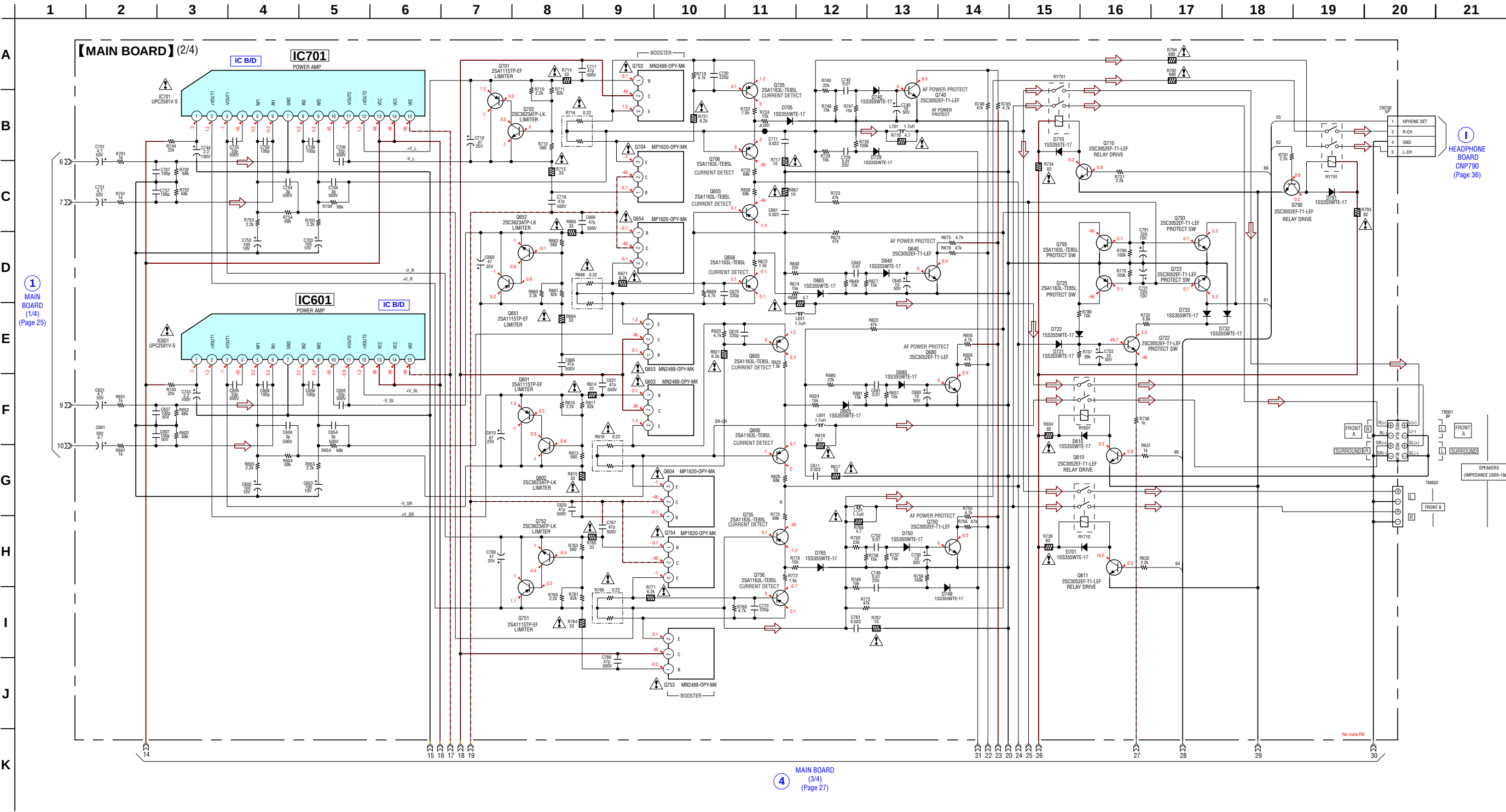


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D505	H-5	D701	D-9	D802	D-13	IC701	G-7	Q601	H-13	Q655	H-9
D529	H-6	D705	H-7	D804	F-13	IC801	E-7	Q602	I-13	Q656	H-9
D540	H-5	D710	E-10	D805	F-14	IC802	E-7	Q603	I-12	Q680	H-12
D560	D-7	D721	H-11	D806	F-14	IC3002	D-3	Q604	I-13	Q691	F-8
D580	H-3	D722	H-11	D807	F-14			Q605	H-13	Q692	E-8
D585	H-3	D729	G-7	D808	F-14	Q501	H-6	Q606	H-13	Q701	H-7
D605	H-12	D732	G-12	D818	D-15	Q502	I-6	Q610	D-10	Q702	I-7
D610	E-10	D733	G-12	D841	F-3	Q503	I-5	Q611	D-8	Q703	I-7
D611	E-11	D740	H-6	D896	E-7	Q504	I-6	Q612	E-11	Q704	I-8
D640	H-8	D749	G-10			Q505	H-6	Q640	G-9	Q705	H-8
D665	H-9	D750	H-10	IC401	F-5	Q506	H-6	Q651	H-9	Q706	H-7
D680	H-12	D765	H-10	IC501	G-4	Q540	H-4	Q652	I-9	Q710	D-10
D690	E-8	D791	H-13	IC601	F-9	Q560	D-7	Q653	I-9	Q722	G-11
D691	E-8	D801	G-13	IC691	E-9	Q571	H-4	Q654	I-10	Q723	G-12
										Q725	G-12
										Q740	H-6
										Q750	H-10
										Q751	H-11
										Q752	I-11
										Q753	I-10
										Q754	I-11
										Q755	H-11
										Q756	H-11
										Q790	H-14
										Q793	H-13
										Q795	G-12
										Q801	G-13
										Q809	F-14

4-11. SCHEMATIC DIAGRAM – MAIN BOARD (1/4) –



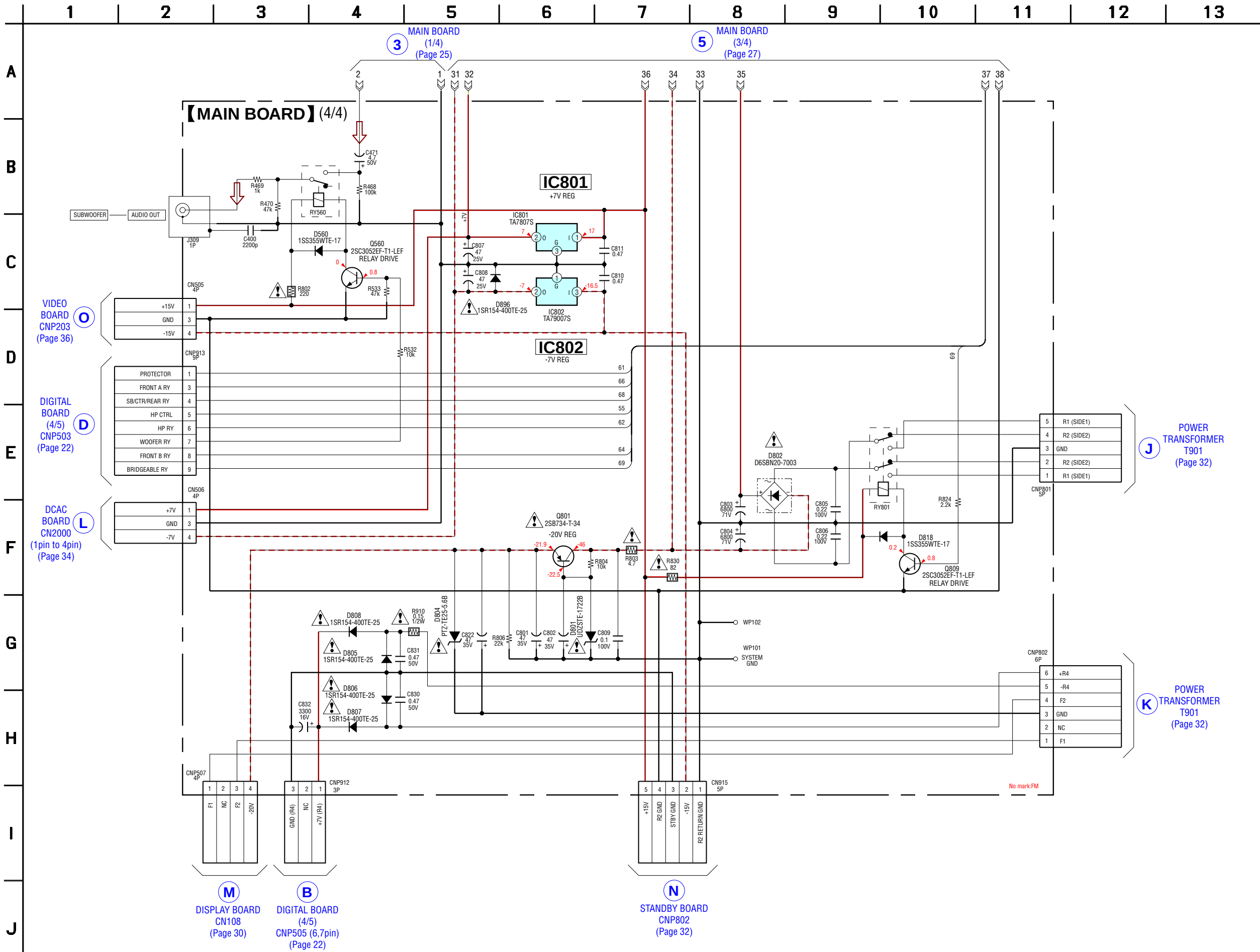


27

27



4-14. SCHEMATIC DIAGRAM – MAIN BOARD (4/4) –



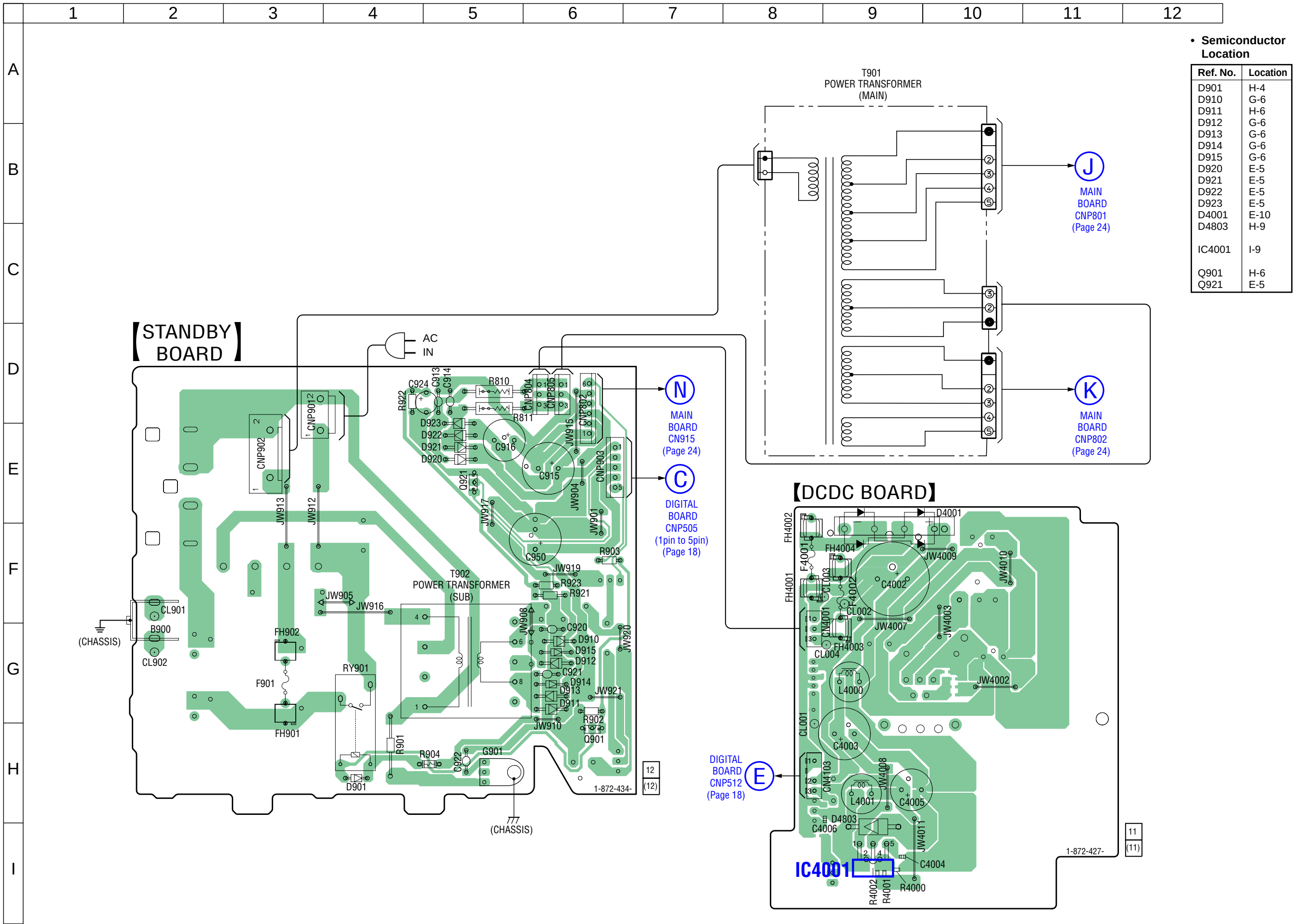
- See page 14 for Circuit Boards Location.

4 :Uses unleaded solder.

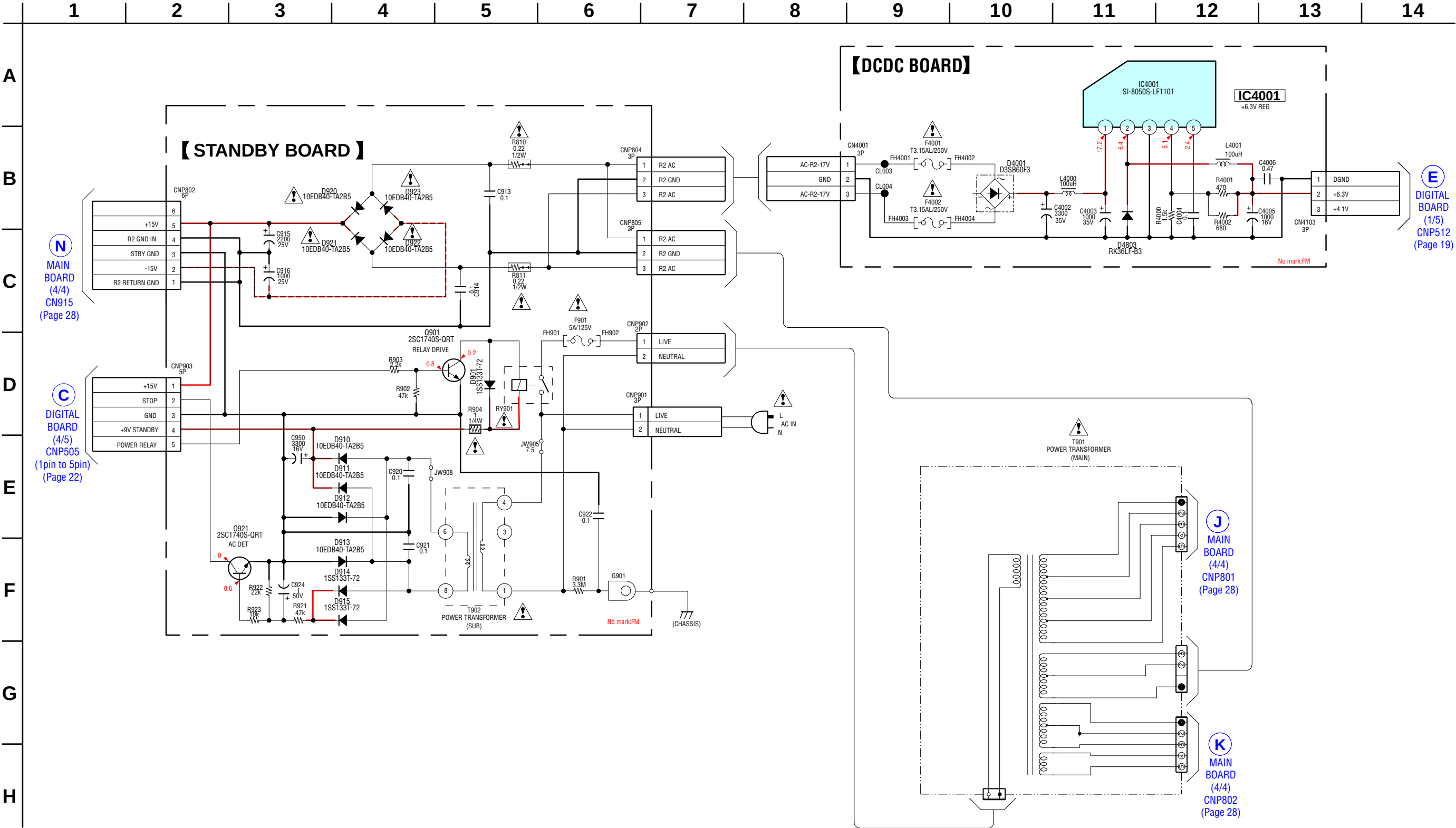




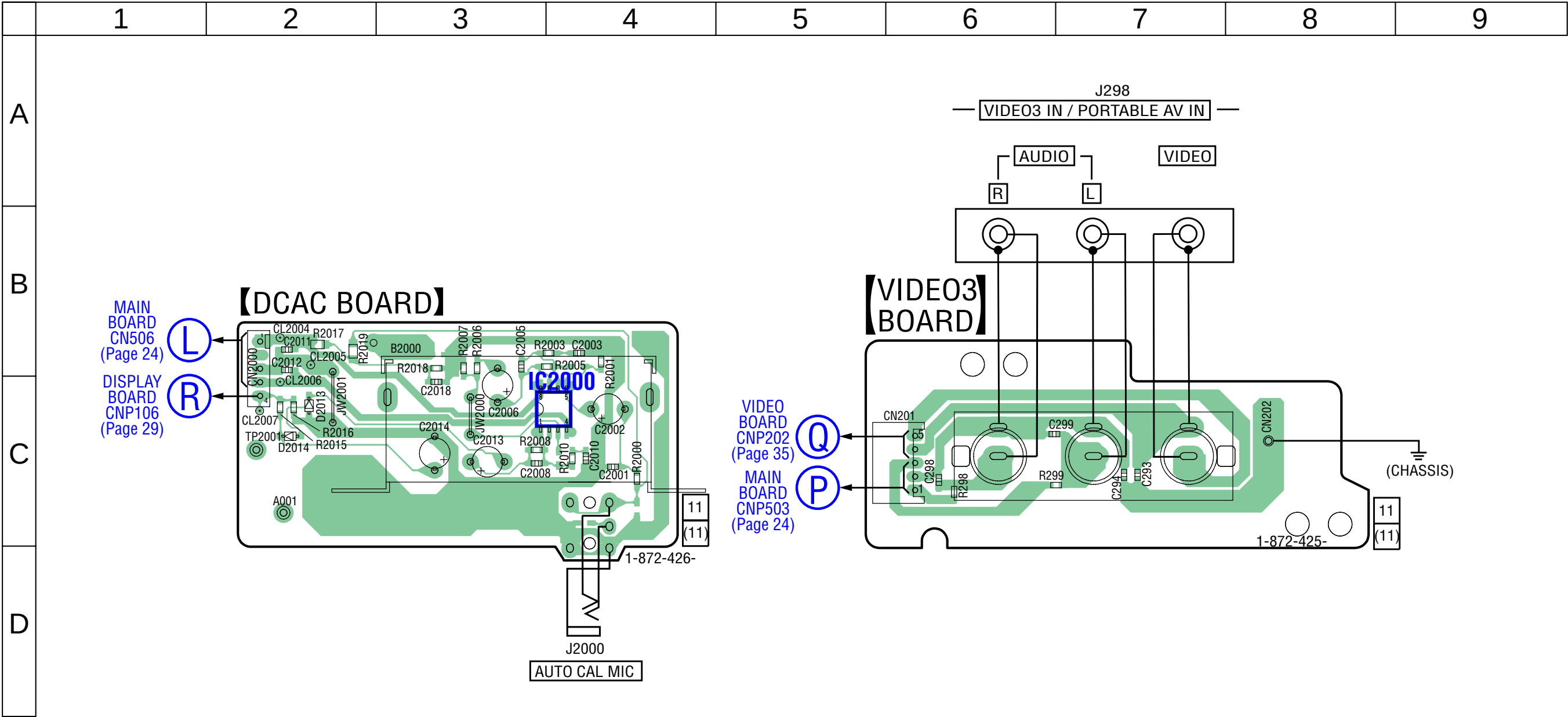
4-17. PRINTED WIRING BOARDS – STANDBY BOARD, DCDC BOARD – • See page 14 for Circuit Boards Location. :Uses unleaded solder.

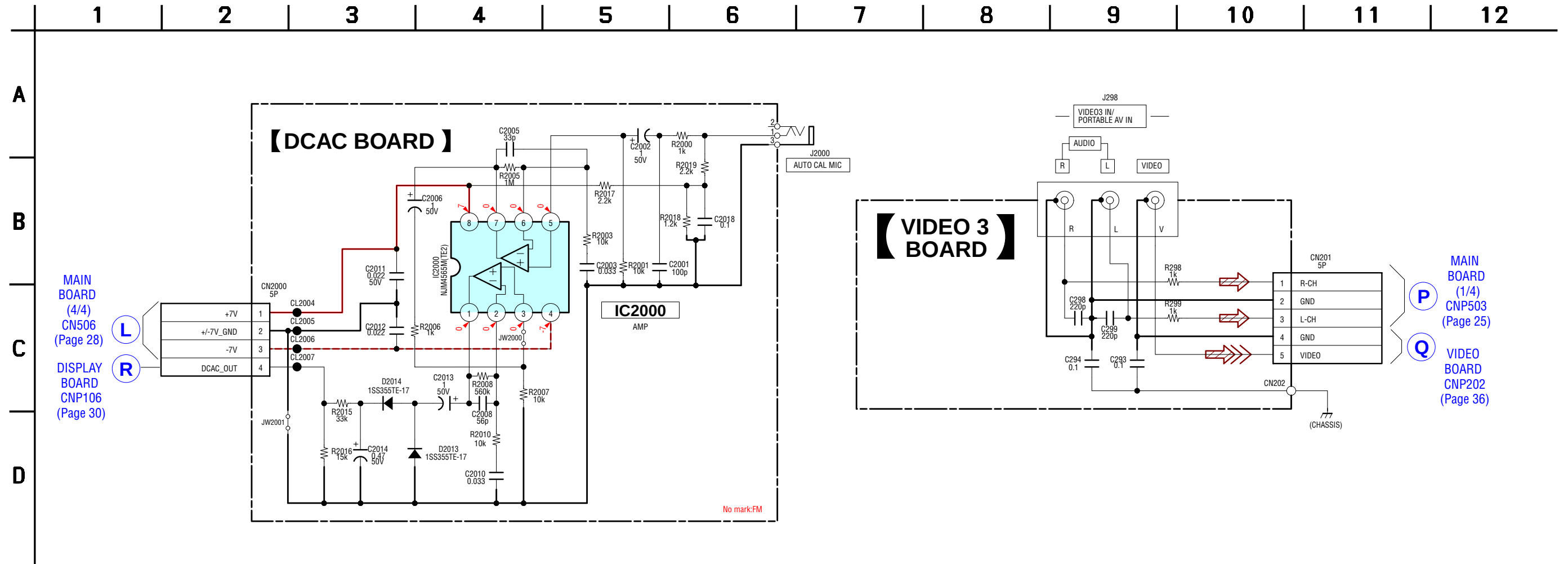


4-18. SCHEMATIC DIAGRAM – STANDBY BOARD, DCDC BOARD –

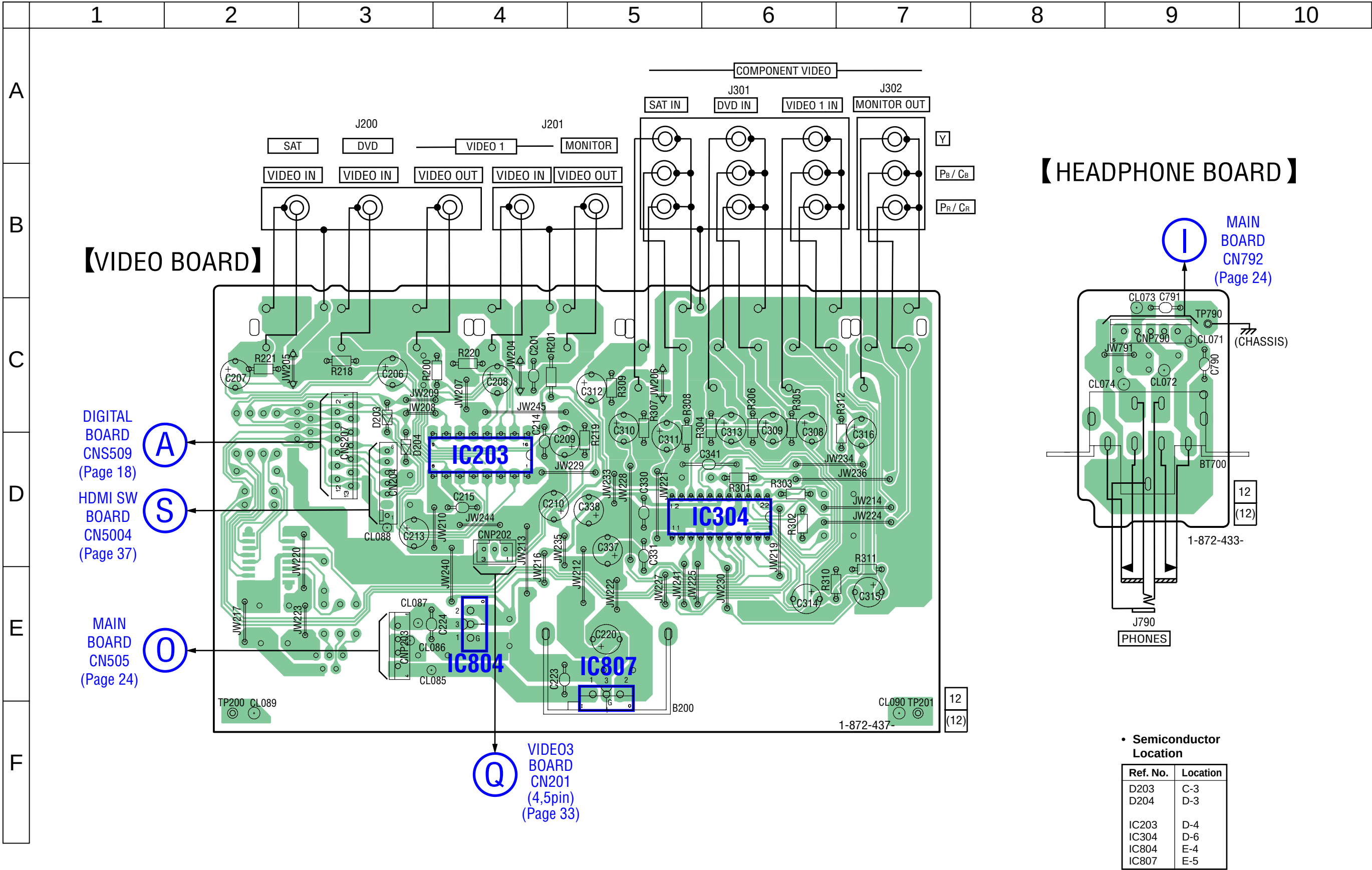


4-19. PRINTED WIRING BOARDS – DCAC BOARD, VIDEO3 BOARD – • See page 14 for Circuit Boards Location. :Uses unleaded solder.

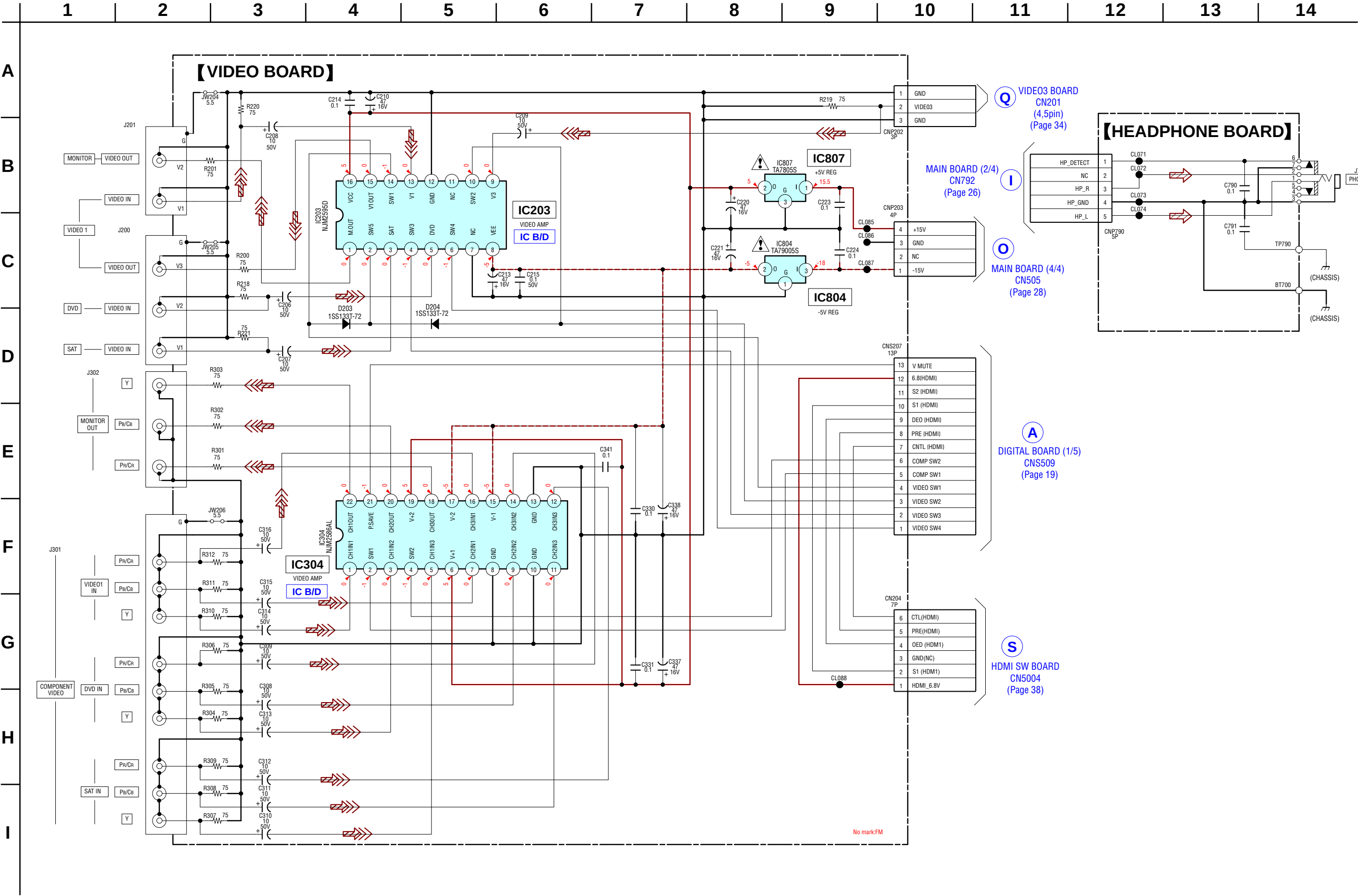




4-21. PRINTED WIRING BOARDS – VIDEO BOARD, HEADPHONE BOARD – • See page 14 for Circuit Boards Location.  :Uses unleaded solder.



4-22. SCHEMATIC DIAGRAM – VIDEO BOARD, HEADPHONE BOARD – • See page 42 for IC Block Diagrams.



	1	2	3	4	5	6	7	8
A								
B								
C								
D								

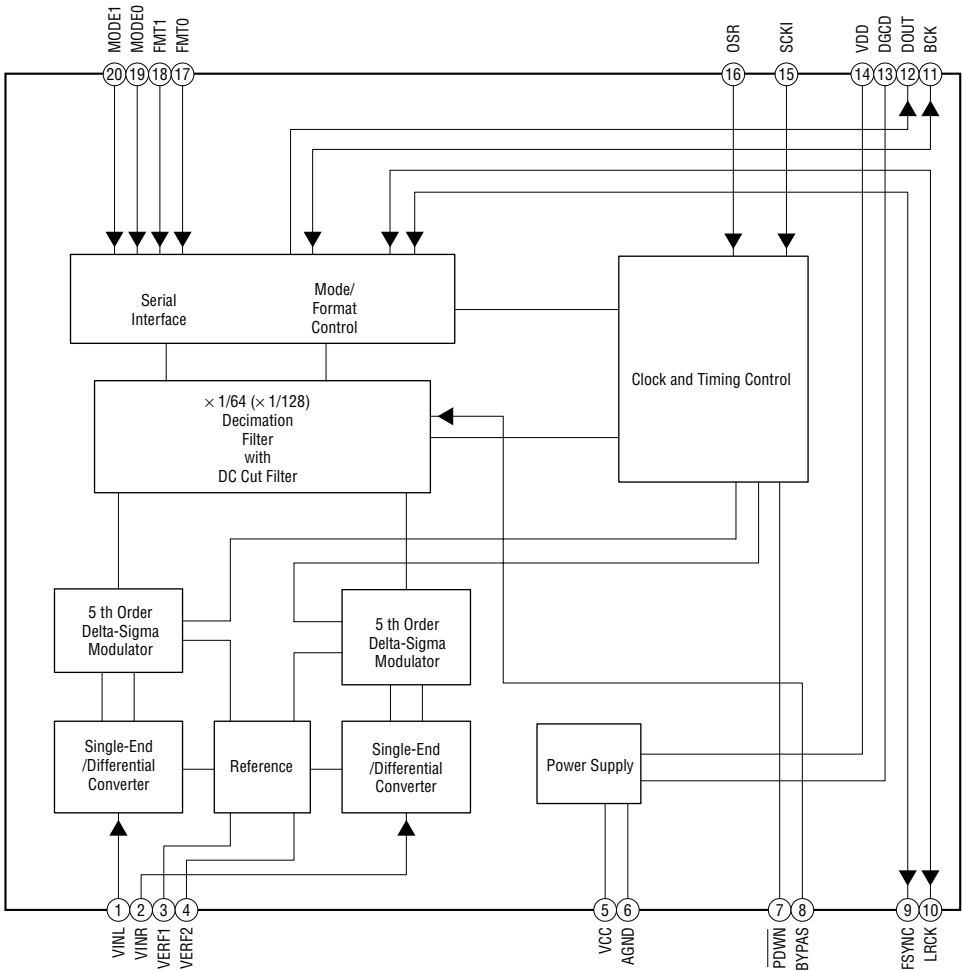
- **Semiconductor Location**

Ref. No.	Location
IC5001	C-3
IC5002	C-4
IC5003	D-4
IC5004	B-4
IC5005	C-4
IC5006	D-2

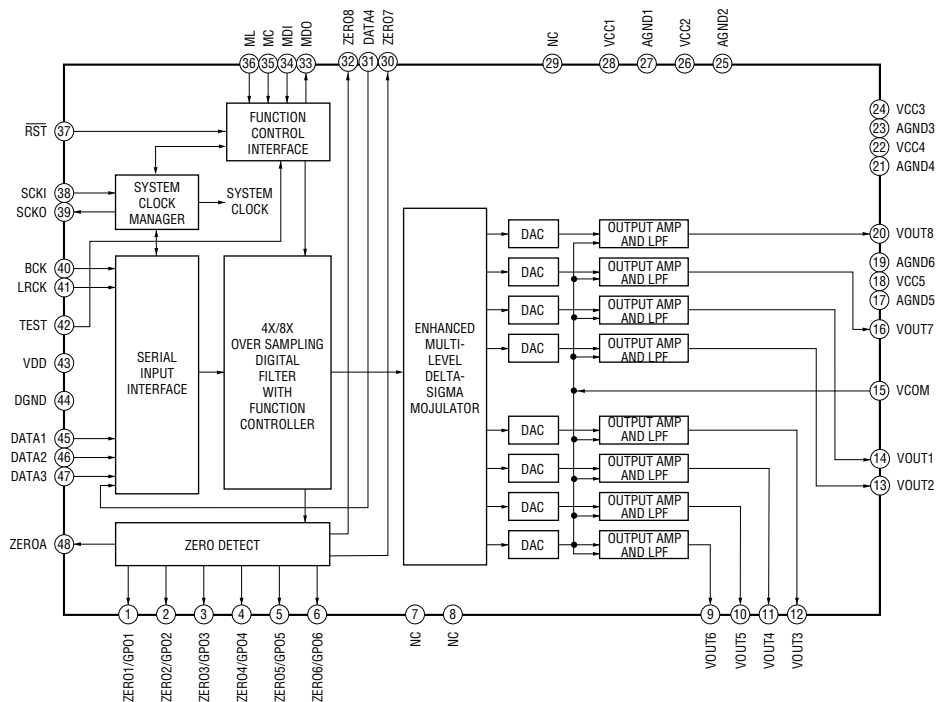


– DIGITAL Board –

IC1401 PCM1803DBR

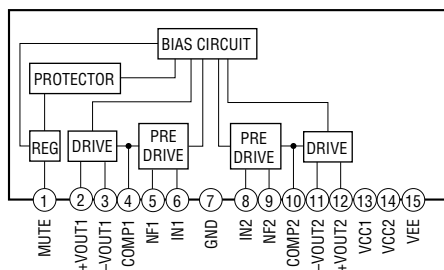


IC1452 PCM1602APT



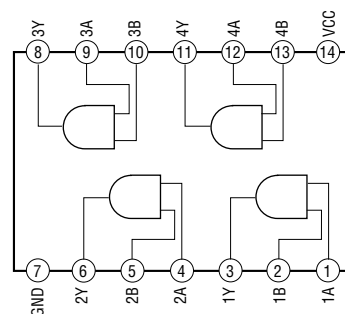
– MAIN Board –

IC501, IC601, IC701 uPC2581V-S



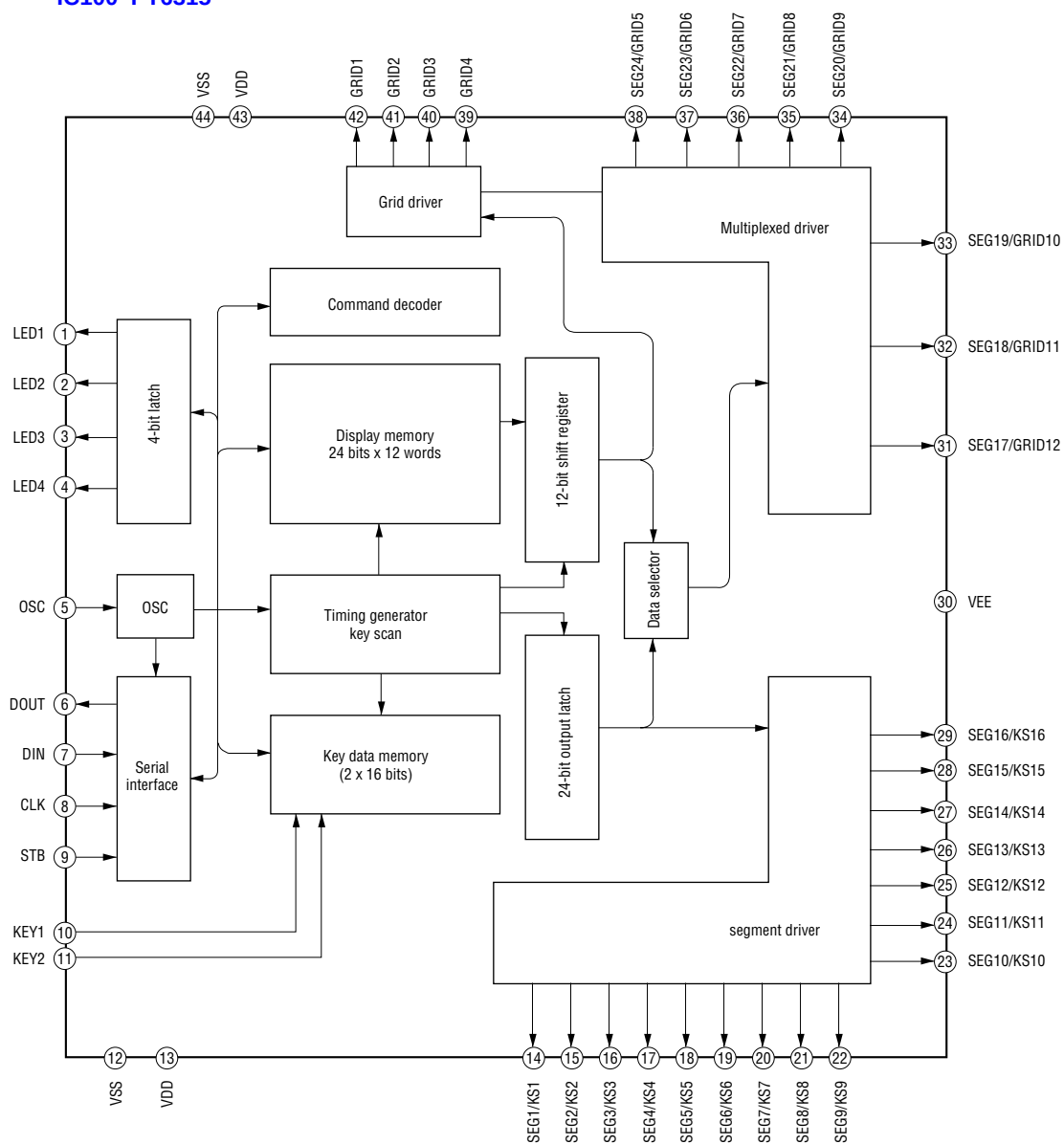
– DISPLAY Board –

IC101 TC74ACT08P



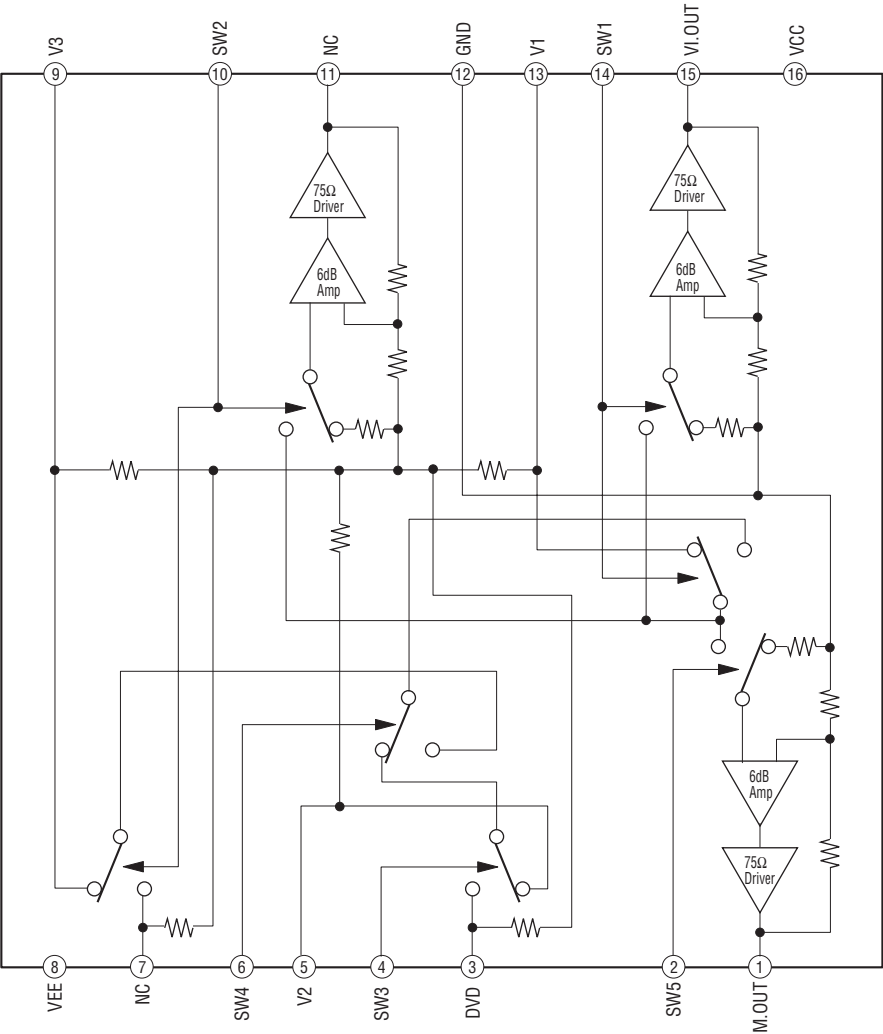
– DISPLAY Board –

IC100 PT6315

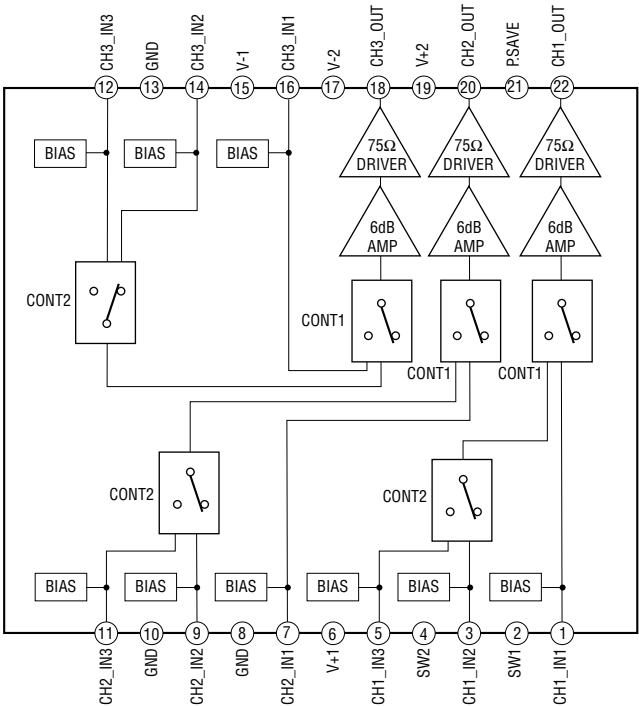


– VIDEO Board –

IC203 NJM2595D



IC304 NJM2586AL



• IC Pin Function Description

DIGITAL BOARD IC1101 MB90F045PF-G-9034-SPE1 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	DATAO	I	Audio data signal input from DIR
2	GP9	I	GP9 signal input from DSP
3	BST	O	BST signal output to DSP
4	HCS	O	HCS signal output to DSP
5	HACN	I	HACN signal input from DSP
6	XRST	O	Reset signal output to DSP
7	PM	O	PM signal output to DSP
8	GP12	O	GP12 signal output to DSP
9	FL_LAT	O	FL driver latch signal output
10	PCM1609/1803_RST	O	IC reset signal output to DAC and ADC
11	VSS	—	Ground terminal
12	PCM1609_ML	O	Latch signal output to DAC
13	PCM1609_MC	O	Clock signal output to DAC
14	PCM1609_MDI	O	IC data output to DAC
15	PCM1609_MDO	I	IC data input from DAC
16	FL_CLK	O	FL driver clock signal output terminal
17	FL_DATA	O	FL driver data signal output terminal
18	HDOUT	I	HDOUT signal input from DSP
19	HDIN	O	HDIN signal output to DSP
20	HCLK	O	Clock signal output to DSP
21	TUNING_A	I	Tuning encoder input (not used)
22	TUNING_B	I	Tuning encoder input (not used)
23	VCC5	—	Power supply (+3.3V)
24	V_SW1	O	Composite video signal select 1
25	V_SW2	O	Composite video signal select 2
26	C LINK_DET	I	C link detect input
27	FLASH2/C LINK_RX (MICLO)	I	C link Rx data input
28	FLASH1/C LINK_TX (MDCLI)	O	C link Tx data output
29	SDA	I	EEPROM data signal input terminal
30	SCL	O	EEPROM clock signal output terminal
31	ENC_A	I	Input selector Encoder (A) signal input
32	ENC_B	I	Input selector Encoder (B) signal input
33	NC	—	Not used (Open)
34	NC	—	Not used (Open)
35	AVCC	—	Analog power supply (+3.3V)
36	AVRH	I	Analog reference voltage input (+3.3V)
37	AVSS	—	Analog ground terminal
38	ADCC	I	ADCC signal input
39	A/D1	I	Function key push signal input
40	A/D2	I	Function key push signal input
41	VERSION	I	Version setting input terminal (DESTINATION)
42	VSS	—	Ground terminal
43	TUNER SD	I	RDS signal detect input
44	MODEL	I	MODEL select input
45	VAX CTRL	I	Vacs control input

Pin No.	Pin Name	I/O	Description
46	TUNER CLK	O	Tuner clock signal output
47	TUNER DATA	O	Tuner data signal output
48	STOP	I	AC off detect signal input
49	MD0	I	Operation mode setting input
50	MD1	I	Operation mode setting input
51	MD2	I	Operation mode setting input
52	RDS_CLK	I	RDS clock signal input (not used (Fixed to “L”))
53	RDS_DATA	I	RDS data signal input (not used (Fixed to “L”))
54	SIRCS	I	Data signal input from the remote control sensor
55	HP_DETECT	I	Headphone signal input
56	POWER_KEY	I	Power switch key detect signal input
57	ADCC_INT	I	ADCC interrupt input
58	POWER_RY	O	Power relay control signal output
59	VOL_IC_CL	O	Volume IC clock signal output
60	VOL_IC_DA	O	Volume IC data and latch signal output
61	PROTECTOR	I	Protector status detect signal input
62	HP_RY	O	Headphone relay control signal output
63	FUSE_DETECT	I	Fuse detect signal input
64	VOL_ENCODER (B)	I	Volume signal input from rotary encoder
65	VOL_ENCODER (A)	I	Volume signal input from rotary encoder
66	FRONT_RY/DG51_FB	O	Front A speaker relay control signal output
67	FRONT_B_RY/DG51_FA	O	Front B speaker control signal output
68	DC-CONTROL	O	Center speaker relay control signal output
69	C/REAR/SB_RY	O	Center, rear, surround back speaker control signal output
70	SW_RY	O	Sub woofer control signal output
71	NC	O	Not used (Open)
72	BRIDGABLE_RY	O	Bridgeable relay control output
73	DO/SD/ST	I	Frequency data signal input from the tuner
74	SLATCH	O	Latch signal output to the tuner
75	V_SW3	O	Composite video signal select 3
76	V_SW4	O	Composite video signal select 4
77	RSTX	I	System reset input
78	COMP MUTE	O	Composite video muting signal output
79	XIA	—	Not used (Open)
80	XOA	—	Ground terminal
81	VSS	—	Ground terminal
82	X0	—	Connection for a crystal resonator
83	X1	—	Connection for a crystal resonator
84	VCC3	—	Power supply (+3.3V)
85	HDMI_S2	O	HDMI select 2 (not used)
86	HDMI_S1	O	HDMI select 1 (not used)
87	HDMI_OED	O	HDMI output enable
88	HDMI_PRE	O	HDMI PRE
89	HDMI_CTRL	O	HDMI board control
90	COMP_S2	O	Composite video select 2
91	COMP_S1	O	Composite video select 1
92	BST_SEL	O	BST signal output terminal
93	XMODE	O	Reset signal output to DIR
94	CKSEL 1	O	CKSEL control signal output to DIR

Pin No.	Pin Name	I/O	Description
95	CLK	O	Clock signal output to DIR
96	CE	O	Chip enable signal output to DIR
97	DI	O	Data signal output to DIR
98	DO	I	Data signal input from DIR
99	ERROR	I	PLL error muting signal input from DIR
100	XSTATE	I	XSTATE data signal input from DIR

SECTION 5
EXPLODED VIEWS

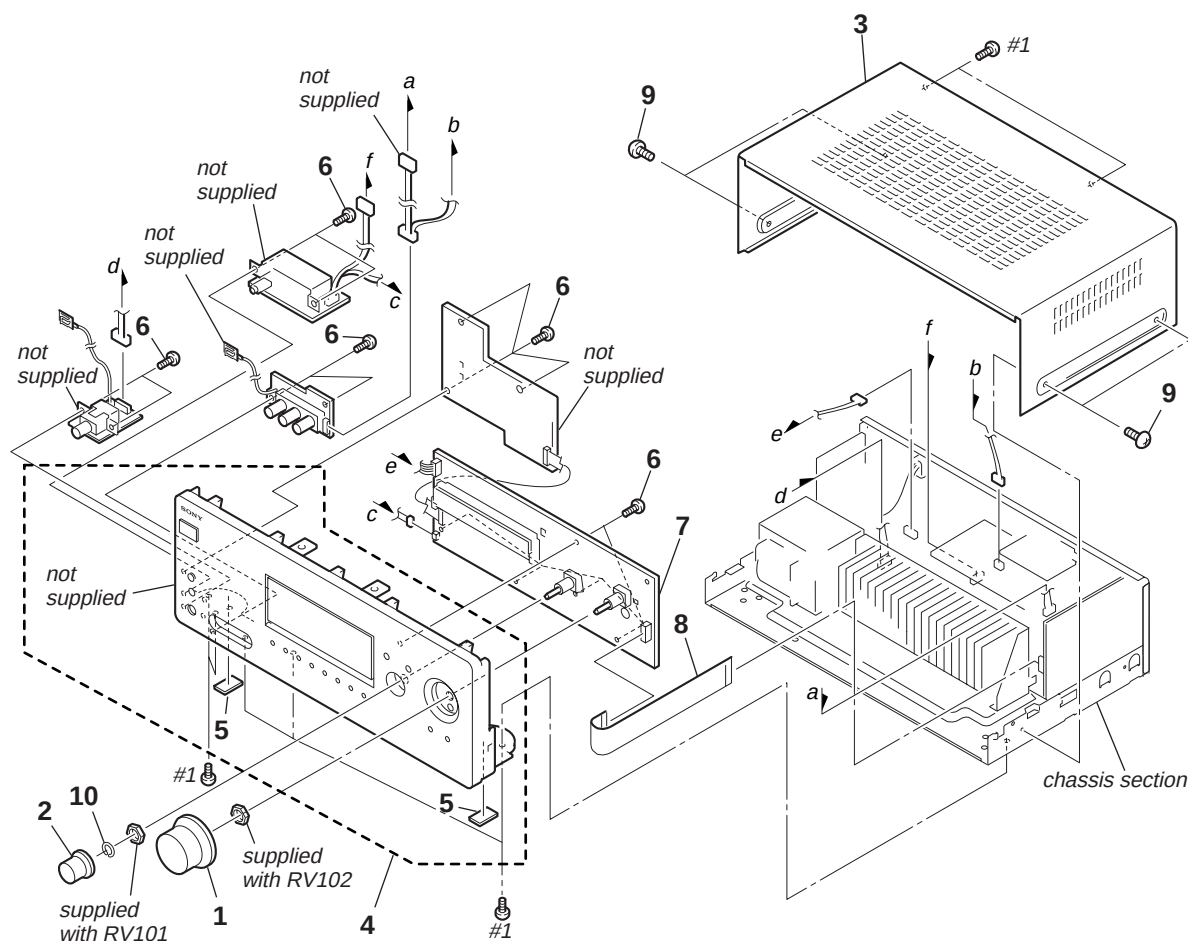
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- The mechanical parts with no reference number in the exploded views are not supplied.
- 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 components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

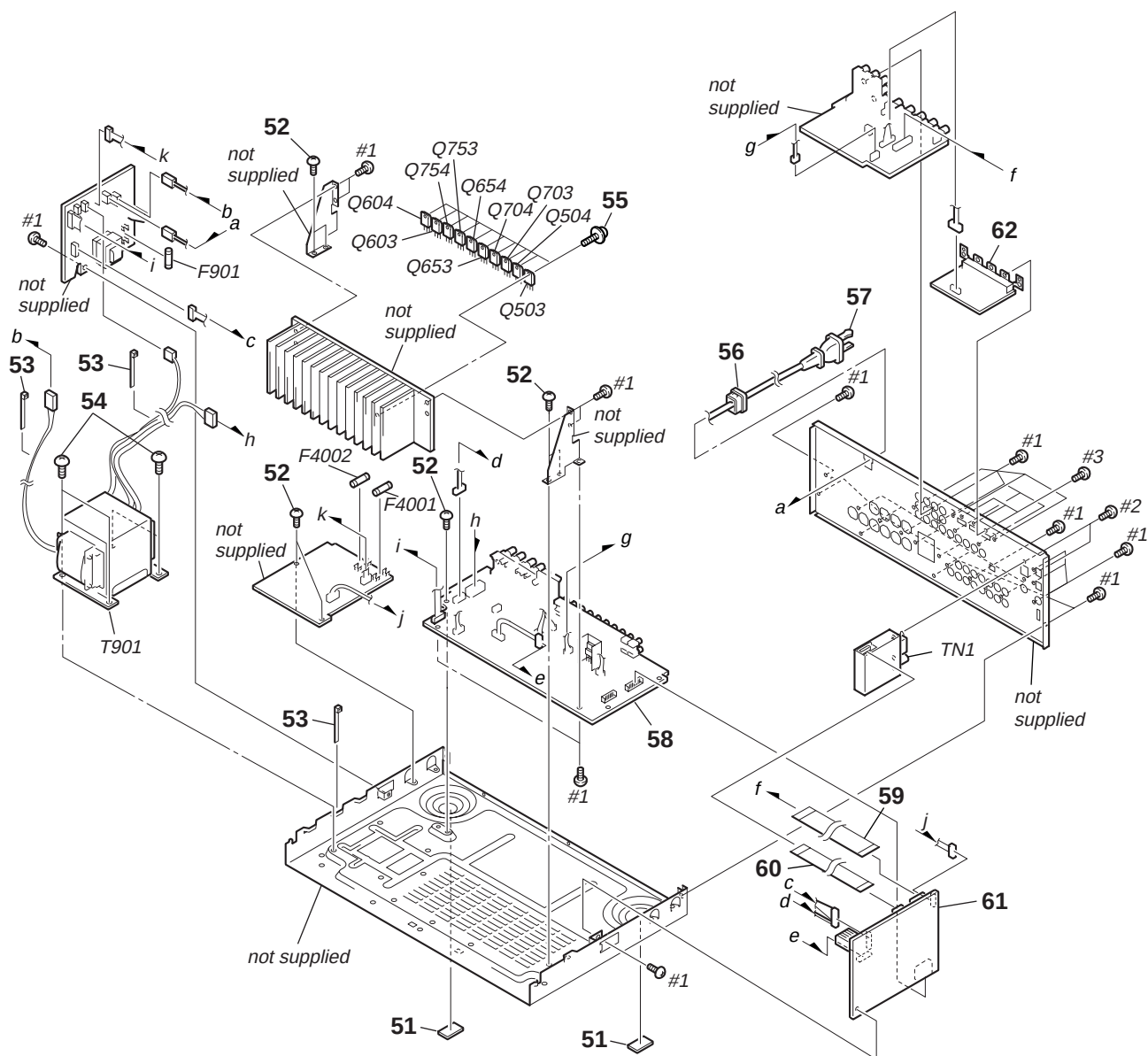
Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	2-661-142-01	VOLUME KNOB		6	3-087-053-01	+BVTP2.6 (3CR)	
2	2-661-141-01	MENU KNOB		7	A-1242-877-A	DISPLAY BOARD, COMPLETE	
3	2-661-145-11	CASE		8	1-828-994-11	WIRE (FLAT TYPE) (17 CORE)	
4	X-2176-942-1	FRONT PANEL ASSY (US)		9	3-363-099-02	SCREW (CASE 3 TP2)	
4	X-2176-943-1	FRONT PANEL ASSY (CND)					
5	4-977-358-01	CUSHION		10	3-354-981-11	SPRING (SUS), RING	
				#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

5-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-977-358-01	CUSHION		△ Q503	6-702-390-01	IC MN2488-OPY-MK	
52	3-077-331-21	+BV3 (3-CR)		△ Q504	6-702-391-01	IC MP1620-OPY-MK	
53	3-701-748-00	CLAMP		△ Q603	6-702-390-01	IC MN2488-OPY-MK	
54	4-249-675-01	+BV SUMITITE S 4X6 ROUND		△ Q604	6-702-391-01	IC MP1620-OPY-MK	
55	3-905-609-01	SCREW (TRANSISTOR)		△ Q653	6-702-390-01	IC MN2488-OPY-MK	
56	3-703-244-21	CORD BUSH (2104)		△ Q654	6-702-391-01	IC MP1620-OPY-MK	
△ 57	1-783-820-11	CORD, POWER		△ Q703	6-702-390-01	IC MN2488-OPY-MK	
58	A-1242-875-A	MAIN BOARD, COMPLETE		△ Q704	6-702-391-01	IC MP1620-OPY-MK	
59	1-828-972-11	WIRE (FLAT TYPE) (13 CORE)		△ Q753	6-702-390-01	IC MN2488-OPY-MK	
60	1-828-953-11	WIRE (FLAT TYPE) (9 CORE)		△ Q754	6-702-391-01	IC MP1620-OPY-MK	
61	A-1242-878-A	DIGITAL BOARD, COMPLETE		△ T901	1-443-524-11	POWER TRANSFORMER	
62	A-1158-394-A	HDMI SW BOARD, COMPLETE		TN1	1-693-733-11	TUNER (FM/AM)	
△ F4001	1-532-465-33	FUSE(T3.15AL/250V)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
△ F4002	1-532-465-33	FUSE(T3.15AL/250V)		#2	7-685-862-09	SCREW +BVTT 2.6X6 (S)	
△ F901	1-533-453-12	FUSE, GLASS TUBE (DIA. 5)(5A/125V)		#3	7-685-871-01	SCREW +BVTT 3X6 (S)	

SECTION 6 ELECTRICAL PARTS LIST

DCAC

DCDC

DIGITAL

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- COILS
uH: μ H

- CAPACITORS
uF: μ F
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . : μ A. . uPA. . : μ PA. .
uPB. . : μ PB. . uPC. . : μ PC. .
uPD. . : μ PD. .
- Abbreviation
CND : Canadian model

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

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.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		DCAC BOARD *****				DCDC BOARD *****	
		< CAPACITOR >				< CAPACITOR >	
C2001	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	C4002	1-128-549-11	ELECT	3300uF 20% 35V
C2002	1-126-160-11	ELECT	1uF 20% 50V	C4003	1-115-814-11	ELECT	0.001F 20% 35V
C2003	1-164-373-11	CERAMIC CHIP	0.033uF 25V	C4004	1-100-566-91	CERAMIC CHIP	0.1uF 10% 25V
C2005	1-162-921-11	CERAMIC CHIP	33PF 5% 50V	C4005	1-128-950-21	ELECT	1000uF 20% 16V
C2006	1-126-160-11	ELECT	1uF 20% 50V	C4006	1-125-891-11	CERAMIC CHIP	0.47uF 10% 10V
						< DIODE >	
C2008	1-162-924-11	CERAMIC CHIP	56PF 5% 50V	D4001	8-719-077-77	DIODE D3SB60F3	
C2010	1-164-373-11	CERAMIC CHIP	0.033uF 25V	D4803	8-719-080-53	DIODE RK36LF-B3	
C2011	1-162-995-11	CERAMIC CHIP	0.022uF 50V			< FUSE HOLDER >	
C2012	1-162-995-11	CERAMIC CHIP	0.022uF 50V				
C2013	1-126-160-11	ELECT	1uF 20% 50V				
						< IC >	
C2014	1-124-465-00	ELECT	0.47uF 20% 50V	IC4001	8-759-474-09	IC SI-8050S-LF1101	
C2018	1-164-156-11	CERAMIC CHIP	0.1uF 25V			< COIL >	
		< DIODE >					
D2013	8-719-988-61	DIODE 1SS355TE-17		L4000	1-456-545-11	INDUCTOR	100uH
D2014	8-719-988-61	DIODE 1SS355TE-17		L4001	1-456-545-11	INDUCTOR	100uH
		< IC >				< RESISTOR >	
IC2000	8-759-710-97	IC NJM4565M-D					
		< JACK >					
J2000	1-820-056-11	SMALL TYPE JACK (AUTO CAL MIC)					
		< RESISTOR >					
R2000	1-216-821-11	METAL CHIP	1K 5% 1/10W	R4000	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
R2001	1-216-833-11	METAL CHIP	10K 5% 1/10W	R4001	1-216-817-11	METAL CHIP	470 5% 1/10W
R2003	1-216-833-11	METAL CHIP	10K 5% 1/10W	R4002	1-216-819-11	METAL CHIP	680 5% 1/10W
R2005	1-216-857-11	METAL CHIP	1M 5% 1/10W			*****	
R2006	1-216-821-11	METAL CHIP	1K 5% 1/10W			A-1242-878-A	DIGITAL BOARD, COMPLETE

R2007	1-216-833-11	METAL CHIP	10K 5% 1/10W			7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3
R2008	1-216-854-11	METAL CHIP	560K 5% 1/10W			< CAPACITOR >	
R2010	1-216-833-11	METAL CHIP	10K 5% 1/10W				
R2015	1-216-839-11	METAL CHIP	33K 5% 1/10W	C1001	1-126-925-91	ELECT	470uF 20% 10V
R2016	1-216-835-11	METAL CHIP	15K 5% 1/10W	C1002	1-125-891-11	CERAMIC CHIP	0.47uF 10% 10V
				C1004	1-100-566-91	CERAMIC CHIP	0.1uF 10% 25V
R2017	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	C1005	1-100-566-91	CERAMIC CHIP	0.1uF 10% 25V
R2018	1-216-822-11	METAL CHIP	1.2K 5% 1/10W	C1019	1-100-566-91	CERAMIC CHIP	0.1uF 10% 25V
R2019	1-216-825-11	METAL CHIP	2.2K 5% 1/10W				
		*****		C1021	1-137-980-91	CERAMIC CHIP	0.47uF 10% 50V
				C1022	1-135-372-31	ELECT	470uF 20% 10V
				C1031	1-137-980-91	CERAMIC CHIP	0.47uF 10% 50V

STR-K990

DIGITAL

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C1032	1-135-372-31	ELECT	470uF	20%	10V	C1406	1-126-964-11	ELECT	10uF	20%	50V
C1067	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C1407	1-126-964-11	ELECT	10uF	20%	50V
C1068	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C1408	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1100	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1409	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1102	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1413	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1103	1-126-947-11	ELECT	47uF	20%	35V	C1414	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1107	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1415	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1108	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1418	1-126-964-11	ELECT	10uF	20%	50V
C1118	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1420	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1119	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1422	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1120	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1423	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1121	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1428	1-126-964-11	ELECT	10uF	20%	50V
C1122	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1432	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1123	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1433	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1124	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1438	1-126-964-11	ELECT	10uF	20%	50V
C1129	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1441	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1131	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1442	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1132	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1448	1-126-964-11	ELECT	10uF	20%	50V
C1137	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C1450	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1138	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1453	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1139	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1454	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1140	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1455	1-126-964-11	ELECT	10uF	20%	50V
C1142	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1457	1-126-964-11	ELECT	10uF	20%	50V
C1144	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1458	1-126-964-11	ELECT	10uF	20%	50V
C1145	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1460	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1149	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C1461	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1171	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1462	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1172	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1463	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1253	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C1468	1-126-964-11	ELECT	10uF	20%	50V
C1254	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C1471	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1255	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C1472	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1299	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1473	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1301	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1474	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1302	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1475	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1303	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1481	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1304	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V	C1483	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1305	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1487	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1306	1-126-947-11	ELECT	47uF	20%	35V	C1491	1-126-964-11	ELECT	10uF	20%	50V
C1308	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1494	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1309	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	C1495	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1310	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	C1501	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1312	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1502	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1313	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C1503	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1314	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1504	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1315	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1505	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1351	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1506	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1354	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1507	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1355	1-104-662-91	ELECT	22uF	20%	25V	C1508	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1358	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1509	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1359	1-126-916-11	ELECT	1000uF	20%	6.3V	C1510	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1361	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1511	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1362	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C1513	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1401	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1514	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1402	1-126-947-11	ELECT	47uF	20%	35V	C1515	1-126-925-91	ELECT	470uF	20%	10V
C1403	1-126-964-11	ELECT	10uF	20%	50V	C1516	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1404	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1517	1-126-925-91	ELECT	470uF	20%	10V
C1405	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C1518	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
						C1519	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C1520	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	FB1310	1-400-862-11	BEAD, FERRITE			
C1521	1-162-920-11	CERAMIC CHIP	27PF	5%	50V						
C1522	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	FB1350	1-400-862-11	BEAD, FERRITE			
C1525	1-126-925-91	ELECT	470uF	20%	10V	FB1403	1-400-862-11	BEAD, FERRITE			
C1547	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	FB1405	1-400-862-11	BEAD, FERRITE			
C1566	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	FB1452	1-400-862-11	BEAD, FERRITE			
C1567	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	FB1453	1-400-862-11	BEAD, FERRITE			
C1568	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	FB1501	1-400-862-11	BEAD, FERRITE			
C1569	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	FB1502	1-400-862-11	BEAD, FERRITE			
C1604	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	FB1503	1-400-862-11	BEAD, FERRITE			
C1605	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	FB1504	1-469-670-21	FERRITE, EMI (SMD) (2012)			
C1620	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	FB1505	1-400-862-11	BEAD, FERRITE			
C1639	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	< IC >					
C1904	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	IC1001	8-759-231-53	IC TA7805S			
C1905	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	△IC1031	6-705-469-01	IC BA50BC0FP-E2			
C1906	1-126-925-91	ELECT	470uF	20%	10V	IC1101	6-807-153-01	IC MB90F045PF-G-9034-SPE1			
C1907	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	IC1111	6-702-913-01	IC S-80929CNMC-G8ZT2G			
						IC1131	6-705-866-01	IC BR24L16FJ-WE2			
C1908	1-126-925-91	ELECT	470uF	20%	10V						
C1909	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	IC1301	8-759-825-15	IC LC89056W-E			
C1910	1-165-722-11	ELECT	100uF	20%	10V	IC1303	8-759-096-87	IC TC7WU04FU (TE12R)			
C1911	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	IC1351	6-600-466-01	IC TORX147L (SONY) (VIDEO 2/BD IN)			
C1913	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V	IC1354	6-600-466-01	IC TORX147L (SONY) (SAT IN)			
						IC1401	6-707-608-01	IC PCM1803DBR			
C1914	1-126-947-11	ELECT	47uF	20%	35V						
C1919	1-126-965-11	ELECT	22uF	20%	50V	IC1403	8-759-710-97	IC NJM4565M-D			
C1920	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	IC1404	8-759-710-97	IC NJM4565M-D			
C1921	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	IC1405	8-759-710-97	IC NJM4565M-D			
< CONNECTOR >						IC1452	6-708-784-01	IC PCM1602APT			
CNP503	1-691-770-11	PLUG (MICRO CONNECTOR) 8P									
* CNP505	1-564-510-11	PLUG, CONNECTOR 7P									
* CNP512	1-564-506-11	PLUG, CONNECTOR 3P									
CNS501	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P									
CNS502	1-573-825-11	CONNECTOR, BOARD TO BOARD 11P									
CNS504	1-784-731-11	CONNECTOR, FFC 9P									
CNS507	1-568-828-11	CONNECTOR, FFC 9P									
CNS509	1-784-774-11	CONNECTOR, FFC 13P									
CNS513	1-784-778-11	CONNECTOR, FFC 17P									
< DIODE >						IC1501	6-705-900-01	IC CXD9718BQ			
D1001	8-719-053-18	DIODE 1SR154-400TE-25									
D1003	8-719-049-09	DIODE 1SS367-T3SONY									
D1004	8-719-049-09	DIODE 1SS367-T3SONY									
D1107	8-719-404-50	DIODE MA111-TX									
D1108	8-719-404-50	DIODE MA111-TX									
D1109	8-719-404-50	DIODE MA111-TX									
D1110	8-719-404-50	DIODE MA111-TX									
D1111	8-719-404-50	DIODE MA111-TX									
D1301	8-719-404-50	DIODE MA111-TX									
D1302	8-719-404-50	DIODE MA111-TX									
D1501	8-719-049-09	DIODE 1SS367-T3SONY									
D1502	8-719-049-09	DIODE 1SS367-T3SONY									
D1503	8-719-049-09	DIODE 1SS367-T3SONY									
< FERRITE BEAD >											
FB1101	1-400-862-11	BEAD, FERRITE									
FB1302	1-400-862-11	BEAD, FERRITE									
FB1305	1-400-862-11	BEAD, FERRITE									
FB1308	1-400-862-11	BEAD, FERRITE									
< JUMPER RESISTOR >											
JR1002	1-211-950-11	SHORT CHIP	0								
JR1005	1-216-864-11	SHORT CHIP	0								
JR1008	1-216-864-11	SHORT CHIP	0								
JR1009	1-211-950-11	SHORT CHIP	0								
JR1010	1-211-950-11	SHORT CHIP	0								
JR1020	1-216-864-11	SHORT CHIP	0								
JR1511	1-400-862-11	BEAD, FERRITE									
< RESISTOR >											
R1010	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1011	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1012	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1013	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1014	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1015	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1035	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						

STR-K990

DIGITAL

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R1039	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1164	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1041	1-216-809-11	METAL CHIP	100	5%	1/10W	R1175	1-216-809-11	METAL CHIP	100	5%	1/10W
R1042	1-216-809-11	METAL CHIP	100	5%	1/10W	R1179	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1049	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1180	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1050	1-216-809-11	METAL CHIP	100	5%	1/10W	R1181	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1061	1-216-809-11	METAL CHIP	100	5%	1/10W	R1182	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1062	1-216-809-11	METAL CHIP	100	5%	1/10W	R1183	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1065	1-216-809-11	METAL CHIP	100	5%	1/10W	R1184	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1066	1-216-809-11	METAL CHIP	100	5%	1/10W	R1185	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1067	1-216-809-11	METAL CHIP	100	5%	1/10W	R1186	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1068	1-216-809-11	METAL CHIP	100	5%	1/10W	R1187	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1072	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R1188	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1073	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R1189	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1076	1-216-809-11	METAL CHIP	100	5%	1/10W	R1190	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1077	1-216-809-11	METAL CHIP	100	5%	1/10W	R1191	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1078	1-216-809-11	METAL CHIP	100	5%	1/10W	R1192	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1083	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1194	1-216-864-11	SHORT CHIP	0		
R1084	1-216-809-11	METAL CHIP	100	5%	1/10W	R1201	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1088	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1253	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1094	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1260	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1095	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1261	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1096	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1301	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1106	1-216-809-11	METAL CHIP	100	5%	1/10W	R1303	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1107	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R1304	1-216-809-11	METAL CHIP	100	5%	1/10W
R1108	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R1305	1-216-819-11	METAL CHIP	680	5%	1/10W
R1110	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R1306	1-216-801-11	METAL CHIP	22	5%	1/10W
R1111	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R1307	1-216-809-11	METAL CHIP	100	5%	1/10W
R1112	1-216-809-11	METAL CHIP	100	5%	1/10W	R1308	1-216-809-11	METAL CHIP	100	5%	1/10W
R1114	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R1309	1-216-809-11	METAL CHIP	100	5%	1/10W
R1117	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1310	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1118	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1311	1-216-809-11	METAL CHIP	100	5%	1/10W
R1120	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1312	1-216-809-11	METAL CHIP	100	5%	1/10W
R1121	1-216-809-11	METAL CHIP	100	5%	1/10W	R1313	1-216-809-11	METAL CHIP	100	5%	1/10W
R1122	1-216-809-11	METAL CHIP	100	5%	1/10W	R1314	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1123	1-216-809-11	METAL CHIP	100	5%	1/10W	R1318	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1124	1-216-809-11	METAL CHIP	100	5%	1/10W	R1319	1-216-864-11	SHORT CHIP	0		
R1125	1-216-809-11	METAL CHIP	100	5%	1/10W	R1321	1-216-864-11	SHORT CHIP	0		
R1126	1-216-809-11	METAL CHIP	100	5%	1/10W	R1323	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1127	1-216-809-11	METAL CHIP	100	5%	1/10W	R1325	1-216-864-11	SHORT CHIP	0		
R1128	1-216-809-11	METAL CHIP	100	5%	1/10W	R1351	1-216-809-11	METAL CHIP	100	5%	1/10W
R1129	1-216-809-11	METAL CHIP	100	5%	1/10W	R1352	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1134	1-216-809-11	METAL CHIP	100	5%	1/10W	R1353	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1135	1-216-809-11	METAL CHIP	100	5%	1/10W	R1354	1-216-809-11	METAL CHIP	100	5%	1/10W
R1140	1-216-809-11	METAL CHIP	100	5%	1/10W	R1355	1-218-285-11	METAL CHIP	75	5%	1/10W
R1143	1-216-809-11	METAL CHIP	100	5%	1/10W	R1356	1-216-817-11	METAL CHIP	470	5%	1/10W
R1144	1-216-809-11	METAL CHIP	100	5%	1/10W	R1357	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1150	1-216-809-11	METAL CHIP	100	5%	1/10W	R1359	1-216-809-11	METAL CHIP	100	5%	1/10W
R1151	1-216-809-11	METAL CHIP	100	5%	1/10W	R1360	1-216-809-11	METAL CHIP	100	5%	1/10W
R1152	1-216-809-11	METAL CHIP	100	5%	1/10W	R1401	1-216-809-11	METAL CHIP	100	5%	1/10W
R1153	1-216-809-11	METAL CHIP	100	5%	1/10W	R1407	1-216-809-11	METAL CHIP	100	5%	1/10W
R1154	1-216-809-11	METAL CHIP	100	5%	1/10W	R1409	1-216-864-11	SHORT CHIP	0		
R1156	1-216-864-11	SHORT CHIP	0			R1410	1-216-817-11	METAL CHIP	470	5%	1/10W
R1157	1-216-864-11	SHORT CHIP	0			R1411	1-216-817-11	METAL CHIP	470	5%	1/10W
R1159	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R1414	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1160	1-216-809-11	METAL CHIP	100	5%	1/10W	R1421	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1161	1-216-809-11	METAL CHIP	100	5%	1/10W	R1424	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1163	1-216-841-11	METAL CHIP	47K	5%	1/10W						

DIGITAL

DISPLAY

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R1425	1-216-864-11	SHORT CHIP	0			R1643	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1426	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1644	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1434	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	R1645	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1435	1-216-864-11	SHORT CHIP	0			R1940	1-216-864-11	SHORT CHIP	0		
R1436	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1941	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1444	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W						
R1445	1-216-864-11	SHORT CHIP	0			R1943	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1446	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1947	1-216-801-11	METAL CHIP	22	5%	1/10W
						R1948	1-216-809-11	METAL CHIP	100	5%	1/10W
R1454	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W						
R1463	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W			< NETWORK RESISTOR >			
R1464	1-216-864-11	SHORT CHIP	0			RB1500	1-233-576-11	RES, CHIP NETWORK		100 (3216)	
R1466	1-216-821-11	METAL CHIP	1K	5%	1/10W	RB1501	1-233-576-11	RES, CHIP NETWORK		100 (3216)	
R1469	1-216-809-11	METAL CHIP	100	5%	1/10W	RB1502	1-233-576-11	RES, CHIP NETWORK		100 (3216)	
						RB1503	1-233-576-11	RES, CHIP NETWORK		100 (3216)	
R1470	1-216-832-11	METAL CHIP	8.2K	5%	1/10W	RB1504	1-233-576-11	RES, CHIP NETWORK		100 (3216)	
R1473	1-216-832-11	METAL CHIP	8.2K	5%	1/10W						
R1474	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB1506	1-233-576-11	RES, CHIP NETWORK		100 (3216)	
R1476	1-216-821-11	METAL CHIP	1K	5%	1/10W	RB1507	1-233-576-11	RES, CHIP NETWORK		100 (3216)	
R1483	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	RB1508	1-233-576-11	RES, CHIP NETWORK		100 (3216)	
R1484	1-216-864-11	SHORT CHIP	0					< VIBRATOR >			
R1486	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R1490	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	X1101	1-813-448-21	PIEZOELECTRIC OSCILLATOR (24MHz)			
R1491	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	X1301	1-795-126-21	VIBRATOR, CRYSTAL (12.288MHz)			
R1492	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	X1502	1-813-276-21	QUARTZ CRYSTAL (13.9MHz)			

R1493	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W						
R1494	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W						
R1495	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	A-1242-877-A	DISPLAY BOARD, COMPLETE				
R1501	1-216-809-11	METAL CHIP	100	5%	1/10W			*****			
R1502	1-216-809-11	METAL CHIP	100	5%	1/10W			< CAPACITOR >			
R1503	1-216-813-11	METAL CHIP	220	5%	1/10W	C110	1-162-286-31	CERAMIC	220PF	10%	50V
R1504	1-216-809-11	METAL CHIP	100	5%	1/10W	C111	1-162-286-31	CERAMIC	220PF	10%	50V
R1505	1-216-809-11	METAL CHIP	100	5%	1/10W	C112	1-162-286-31	CERAMIC	220PF	10%	50V
R1506	1-216-809-11	METAL CHIP	100	5%	1/10W	C114	1-127-888-11	CERAMIC	0.1uF	10%	50V
R1508	1-216-809-11	METAL CHIP	100	5%	1/10W	C115	1-126-964-11	ELECT	10uF	20%	50V
R1509	1-216-809-11	METAL CHIP	100	5%	1/10W	C144	1-127-888-11	CERAMIC	0.1uF	10%	50V
R1510	1-216-809-11	METAL CHIP	100	5%	1/10W	C145	1-127-888-11	CERAMIC	0.1uF	10%	50V
R1511	1-216-809-11	METAL CHIP	100	5%	1/10W	C147	1-162-286-31	CERAMIC	220PF	10%	50V
R1512	1-216-833-11	METAL CHIP	10K	5%	1/10W	C148	1-126-964-11	ELECT	10uF	20%	50V
R1513	1-216-833-11	METAL CHIP	10K	5%	1/10W	C149	1-162-286-31	CERAMIC	220PF	10%	50V
R1514	1-216-833-11	METAL CHIP	10K	5%	1/10W	C160	1-127-888-11	CERAMIC	0.1uF	10%	50V
R1515	1-216-857-11	METAL CHIP	1M	5%	1/10W	C162	1-127-888-11	CERAMIC	0.1uF	10%	50V
R1523	1-216-813-11	METAL CHIP	220	5%	1/10W	C164	1-162-286-31	CERAMIC	220PF	10%	50V
R1524	1-216-864-11	SHORT CHIP	0			C165	1-126-964-11	ELECT	10uF	20%	50V
R1530	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R1541	1-216-813-11	METAL CHIP	220	5%	1/10W			< CONNECTOR >			
R1555	1-216-813-11	METAL CHIP	220	5%	1/10W						
R1556	1-216-809-11	METAL CHIP	100	5%	1/10W	* CN104	1-691-746-11	CONNECTOR, BOARD TO BOARD 5P			
R1557	1-216-813-11	METAL CHIP	220	5%	1/10W	CNP106	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
R1570	1-216-833-11	METAL CHIP	10K	5%	1/10W	CNS100	1-784-778-11	CONNECTOR, FFC 17P			
R1571	1-216-833-11	METAL CHIP	10K	5%	1/10W			< FLUORESCENT INDICATOR TUBE >			
R1572	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R1573	1-216-833-11	METAL CHIP	10K	5%	1/10W	FL101	1-519-927-11	VACUUM FLOURESCENT DISPLAY			
R1574	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R1635	1-216-833-11	METAL CHIP	10K	5%	1/10W			< IC >			
R1636	1-216-833-11	METAL CHIP	10K	5%	1/10W	IC100	8-759-643-83	IC uPD16315GB-3BS			
R1637	1-216-864-11	SHORT CHIP	0			IC101	8-759-243-51	IC TC74ACT08P			
R1640	1-216-833-11	METAL CHIP	10K	5%	1/10W	IC103	6-600-349-31	IC NJL24H400A			
R1641	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R1642	1-216-833-11	METAL CHIP	10K	5%	1/10W						

Ref. No.	Part No.	Description	Remark		
< RESISTOR >					
R101	1-249-409-11	CARBON	220	5%	1/4W
R102	1-249-411-11	CARBON	330	5%	1/4W
R103	1-249-413-11	CARBON	470	5%	1/4W
R104	1-249-415-11	CARBON	680	5%	1/4W
R105	1-247-831-91	CARBON	1K	5%	1/4W
R106	1-249-419-11	CARBON	1.5K	5%	1/4W
R107	1-249-421-11	CARBON	2.2K	5%	1/4W
R108	1-249-409-11	CARBON	220	5%	1/4W
R109	1-249-411-11	CARBON	330	5%	1/4W
R110	1-249-413-11	CARBON	470	5%	1/4W
R115	1-247-807-31	CARBON	100	5%	1/4W
R116	1-247-807-31	CARBON	100	5%	1/4W
R117	1-247-807-31	CARBON	100	5%	1/4W
R118	1-249-440-11	CARBON	82K	5%	1/4W
R119	1-247-807-31	CARBON	100	5%	1/4W
△ R120	1-249-393-11	CARBON	10	5%	1/4W
△ R197	1-249-386-81	CARBON	2.7	5%	1/4W
△ R198	1-249-386-81	CARBON	2.7	5%	1/4W
< VARIABLE RESISTOR >					
RV101	1-418-817-11	ENCODER, ROTARY (INPUT SELECTOR)			
RV102	1-418-725-41	ENCODER, ROTARY (12 TYPE)			
(MASTER VOLUME)					
< SWITCH >					
S101	1-771-410-21	SWITCH, TACTILE (MUTING)			
S102	1-771-410-21	SWITCH, TACTILE (AUTO CAL)			
S103	1-771-410-21	SWITCH, TACTILE (INPUT MODE)			
S104	1-771-410-21	SWITCH, TACTILE (DISPLAY)			
S105	1-771-410-21	SWITCH, TACTILE (MUSIC)			
S106	1-771-410-21	SWITCH, TACTILE (MOVIE)			
S107	1-771-410-21	SWITCH, TACTILE (A.F.D.)			
S108	1-771-410-21	SWITCH, TACTILE (2CH)			
S109	1-771-410-21	SWITCH, TACTILE (+/TUNING)			
S110	1-771-410-21	SWITCH, TACTILE (-/TUNING)			
S111	1-771-410-21	SWITCH, TACTILE (TUNING MODE)			
S112	1-771-410-21	SWITCH, TACTILE (MEMORY/ENTER)			

A-1158-394-A		HDMI SW BOARD, COMPLETE			

< CAPACITOR >					
C5001	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5002	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5003	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5004	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5005	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5006	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5007	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5008	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5009	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5010	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5011	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5012	1-112-788-11	ELECT CHIP	330uF	20%	6.3V
C5013	1-128-934-91	CERAMIC CHIP	0.33uF	20%	10V
C5014	1-112-788-11	ELECT CHIP	330uF	20%	6.3V

Ref. No.	Part No.	Description	Remark		
C5015	1-128-994-21	ELECT CHIP	47uF	20%	10V
C5016	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5017	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C5018	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C5019	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5020	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5021	1-117-681-11	ELECT CHIP	100uF	20%	16V
C5022	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5023	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5024	1-128-934-91	CERAMIC CHIP	0.33uF	20%	10V
C5027	1-128-994-21	ELECT CHIP	47uF	20%	10V
< CONNECTOR >					
CN5001	1-820-735-11	HDMI CONNECTOR (DVD IN/HDMI)			
CN5002	1-820-735-11	HDMI CONNECTOR (VIDEO 2/BD IN// HDMI)			
CN5003	1-820-735-11	HDMI CONNECTOR (OUT/HDMI)			
* CN5004	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P			
< IC >					
IC5001	6-709-221-01	IC TMD5341PFCR			
IC5002	6-705-337-01	IC TK11150CSCL-G			
IC5003	6-705-468-01	IC BA33BC0FP-E2			
IC5004	6-704-099-01	IC TC7WZ08FK (TE85R)			
IC5005	6-707-207-01	IC SN74LVC1G3157DCKR			
IC5006	6-706-740-01	IC BA00BC0WFP-E2			
< COIL >					
L5013	1-400-862-11	BEAD, FERRITE			
< RESISTOR >					
R5001	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W
R5002	1-218-844-11	METAL CHIP	750	0.5%	1/10W
R5003	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5004	1-216-864-11	SHORT CHIP	0		
R5005	1-216-864-11	SHORT CHIP	0		
R5006	1-216-864-11	SHORT CHIP	0		
R5007	1-216-864-11	SHORT CHIP	0		
R5008	1-216-864-11	SHORT CHIP	0		
R5009	1-216-864-11	SHORT CHIP	0		
R5010	1-216-864-11	SHORT CHIP	0		
R5011	1-216-864-11	SHORT CHIP	0		
R5014	1-216-864-11	SHORT CHIP	0		
R5015	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5016	1-216-864-11	SHORT CHIP	0		
R5017	1-216-864-11	SHORT CHIP	0		
R5018	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5019	1-216-864-11	SHORT CHIP	0		
R5020	1-216-864-11	SHORT CHIP	0		
R5022	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5024	1-216-864-11	SHORT CHIP	0		
R5025	1-216-864-11	SHORT CHIP	0		
R5026	1-216-809-11	METAL CHIP	100	5%	1/10W
R5027	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5028	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5029	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5030	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5042	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

HDMI SW

HEADPHONE

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R5043	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C485	1-126-964-11	ELECT	10uF	20%	50V
R5047	1-216-864-11	SHORT CHIP	0			C488	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R5048	1-216-864-11	SHORT CHIP	0			C492	1-126-964-11	ELECT	10uF	20%	50V
R5049	1-216-864-11	SHORT CHIP	0			C493	1-126-964-11	ELECT	10uF	20%	50V
R5050	1-216-821-11	METAL CHIP	1K	5%	1/10W	C495	1-126-964-11	ELECT	10uF	20%	50V
R5051	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	C501	1-126-963-11	ELECT	4.7uF	20%	50V
R5052	1-216-841-11	METAL CHIP	47K	5%	1/10W	C503	1-165-722-11	ELECT	100uF	20%	10V
R5053	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C504	1-107-583-11	CERAMIC	3PF	0.25PF	500V
R5054	1-216-833-11	METAL CHIP	10K	5%	1/10W	C505	1-102-233-00	CERAMIC	33PF	10%	500V
R5055	1-216-833-11	METAL CHIP	10K	5%	1/10W	C506	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
R5056	1-216-821-11	METAL CHIP	1K	5%	1/10W	C507	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
R5060	1-216-864-11	SHORT CHIP	0			C510	1-126-947-11	ELECT	47uF	20%	35V
R5061	1-216-864-11	SHORT CHIP	0			C511	1-136-157-00	FILM	0.022uF	5%	50V
R5068	1-216-845-11	METAL CHIP	100K	5%	1/10W	C516	1-162-815-11	CERAMIC	47PF	5%	500V
R5069	1-216-845-11	METAL CHIP	100K	5%	1/10W	C517	1-162-815-11	CERAMIC	47PF	5%	500V
R5072	1-216-809-11	METAL CHIP	100	5%	1/10W	C519	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
R5073	1-216-864-11	SHORT CHIP	0			C529	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R5074	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C540	1-126-964-11	ELECT	10uF	20%	50V

HEADPHONE BOARD						C541	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
*****						C601	1-126-963-11	ELECT	4.7uF	20%	50V
< CAPACITOR >						C603	1-165-722-11	ELECT	100uF	20%	10V
C790	1-127-888-11	CERAMIC	0.1uF	10%	50V	C604	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C791	1-127-888-11	CERAMIC	0.1uF	10%	50V	C605	1-102-233-00	CERAMIC	33PF	10%	500V
< CONNECTOR >						C606	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
* CNP790	1-564-508-11	PLUG, CONNECTOR 5P				C607	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
< JACK >						C610	1-126-947-11	ELECT	47uF	20%	35V
J790	1-815-314-21	JACK (PHONES)				C611	1-136-157-00	FILM	0.022uF	5%	50V
< TEST PIN >						C619	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
* TP790	1-690-880-31	LEAD (WITH CONNECTOR)				C620	1-162-815-11	CERAMIC	47PF	5%	500V

A-1242-875-A MAIN BOARD, COMPLETE						C621	1-162-815-11	CERAMIC	47PF	5%	500V
*****						C640	1-126-964-11	ELECT	10uF	20%	50V
7-685-646-79 SCREW +BVTP 3X8 TYPE2 IT-3						C642	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
< CAPACITOR >						C651	1-126-963-11	ELECT	4.7uF	20%	50V
C400	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C653	1-165-722-11	ELECT	100uF	20%	10V
C403	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C654	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C408	1-126-963-11	ELECT	4.7uF	20%	50V	C655	1-102-233-00	CERAMIC	33PF	10%	500V
C409	1-126-963-11	ELECT	4.7uF	20%	50V	C656	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C444	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C657	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C453	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C660	1-126-947-11	ELECT	47uF	20%	35V
C458	1-126-963-11	ELECT	4.7uF	20%	50V	C661	1-136-157-00	FILM	0.022uF	5%	50V
C459	1-126-963-11	ELECT	4.7uF	20%	50V	C666	1-162-815-11	CERAMIC	47PF	5%	500V
C463	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C669	1-162-815-11	CERAMIC	47PF	5%	500V
C464	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C670	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C468	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C680	1-126-964-11	ELECT	10uF	20%	50V
C469	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C681	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C471	1-126-963-11	ELECT	4.7uF	20%	50V	C691	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C481	1-126-964-11	ELECT	10uF	20%	50V	C701	1-126-963-11	ELECT	4.7uF	20%	50V
C484	1-126-964-11	ELECT	10uF	20%	50V	C702	1-126-964-11	ELECT	10uF	20%	50V
						C703	1-165-722-11	ELECT	100uF	20%	10V
						C704	1-107-583-11	CERAMIC	3PF	0.25PF	500V
						C705	1-102-233-00	CERAMIC	33PF	10%	500V
						C706	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
						C707	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
						C710	1-126-947-11	ELECT	47uF	20%	35V
						C711	1-136-157-00	FILM	0.022uF	5%	50V
						C716	1-162-815-11	CERAMIC	47PF	5%	500V
						C717	1-162-815-11	CERAMIC	47PF	5%	500V
						C720	1-162-960-11	CERAMIC CHIP	220PF	10%	50V

MAIN

Ref. No.	Part No.	Description	Remark		
C721	1-126-923-91	ELECT	220uF	20%	10V
C722	1-126-964-11	ELECT	10uF	20%	50V
C729	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C732	1-128-582-11	ELECT	10uF	20%	100V
C733	1-128-582-11	ELECT	10uF	20%	100V
C740	1-126-964-11	ELECT	10uF	20%	50V
C741	1-128-579-11	ELECT	2.2uF	20%	100V
C742	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C743	1-128-579-11	ELECT	2.2uF	20%	100V
C744	1-128-579-11	ELECT	2.2uF	20%	100V
C749	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C750	1-126-964-11	ELECT	10uF	20%	50V
C751	1-126-963-11	ELECT	4.7uF	20%	50V
C752	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C753	1-165-722-11	ELECT	100uF	20%	10V
C754	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C755	1-102-233-00	CERAMIC	33PF	10%	500V
C756	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C757	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C760	1-126-947-11	ELECT	47uF	20%	35V
C761	1-136-157-00	FILM	0.022uF	5%	50V
C762	1-126-964-11	ELECT	10uF	20%	50V
C766	1-162-815-11	CERAMIC	47PF	5%	500V
C767	1-162-815-11	CERAMIC	47PF	5%	500V
C770	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C791	1-126-923-91	ELECT	220uF	20%	10V
C801	1-126-947-11	ELECT	47uF	20%	35V
C802	1-126-947-11	ELECT	47uF	20%	35V
C803	1-165-960-11	ELECT (BLOCK)	6800uF	20%	71V
C804	1-165-960-11	ELECT (BLOCK)	6800uF	20%	71V
C805	1-135-851-21	MYLAR	0.22uF		100V
C806	1-135-851-21	MYLAR	0.22uF		100V
C807	1-126-947-11	ELECT	47uF	20%	35V
C808	1-126-947-11	ELECT	47uF	20%	35V
C809	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C810	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C811	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C822	1-126-947-11	ELECT	47uF	20%	35V
C830	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C831	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C832	1-126-936-11	ELECT	3300uF	20%	16V
C842	1-165-732-31	ELECT	47uF	20%	25V
C3022	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C3024	1-126-963-11	ELECT	4.7uF	20%	50V
C3025	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3026	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3027	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C3032	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C3034	1-126-963-11	ELECT	4.7uF	20%	50V
C3037	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
< CONNECTOR >					
CN500	1-573-843-11	CONNECTOR, BOARD TO BOARD 11P			
CN506	1-779-978-11	PIN, CONNECTOR 3P			
CNP501	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P			
* CNP503	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP507	1-564-507-11	PLUG, CONNECTOR 4P			

Ref. No.	Part No.	Description	Remark
* CNP801	1-564-242-00	PIN, CONNECTOR (3.96mm PITCH) 5P	
* CNP802	1-564-509-11	PLUG, CONNECTOR 6P	
* CNP912	1-564-506-11	PLUG, CONNECTOR 3P	
< DIODE >			
D505	6-501-193-01	DIODE	1SS355WTE-17
D529	6-501-193-01	DIODE	1SS355WTE-17
D540	6-501-193-01	DIODE	1SS355WTE-17
D560	6-501-193-01	DIODE	1SS355WTE-17
D605	6-501-193-01	DIODE	1SS355WTE-17
D610	6-501-193-01	DIODE	1SS355WTE-17
D611	6-501-193-01	DIODE	1SS355WTE-17
D640	6-501-193-01	DIODE	1SS355WTE-17
D665	6-501-193-01	DIODE	1SS355WTE-17
D680	6-501-193-01	DIODE	1SS355WTE-17
D690	8-719-083-71	DIODE	UDZSTE-1730B
D691	6-501-193-01	DIODE	1SS355WTE-17
D701	6-501-193-01	DIODE	1SS355WTE-17
D705	6-501-193-01	DIODE	1SS355WTE-17
D710	6-501-193-01	DIODE	1SS355WTE-17
D721	6-501-193-01	DIODE	1SS355WTE-17
D722	6-501-193-01	DIODE	1SS355WTE-17
D729	6-501-193-01	DIODE	1SS355WTE-17
D732	6-501-193-01	DIODE	1SS355WTE-17
D733	6-501-193-01	DIODE	1SS355WTE-17
D740	6-501-193-01	DIODE	1SS355WTE-17
D749	6-501-193-01	DIODE	1SS355WTE-17
D750	6-501-193-01	DIODE	1SS355WTE-17
D765	6-501-193-01	DIODE	1SS355WTE-17
D791	6-501-193-01	DIODE	1SS355WTE-17
△ D801	8-719-083-85	DIODE	UDZSTE-1722B
△ D802	6-501-003-21	DIODE	D6SBN20-7003
△ D804	6-500-295-01	DIODE	PTZ-TE25-5.6B
△ D805	8-719-053-18	DIODE	1SR154-400TE-25
△ D806	8-719-053-18	DIODE	1SR154-400TE-25
△ D807	8-719-053-18	DIODE	1SR154-400TE-25
△ D808	8-719-053-18	DIODE	1SR154-400TE-25
D818	6-501-193-01	DIODE	1SS355WTE-17
D841	6-500-696-01	DIODE	UDZSTE-173.0B
△ D896	8-719-053-18	DIODE	1SR154-400TE-25
< IC >			
IC401	6-707-362-01	IC	BD3451KS
△ IC501	6-700-943-01	IC	uPC2581V-S
△ IC601	6-700-943-01	IC	uPC2581V-S
IC691	8-759-710-97	IC	NJM4565M-D
△ IC701	6-700-943-01	IC	uPC2581V-S
IC801	8-759-071-48	IC	TA7807S
IC802	8-759-071-47	IC	TA79007S
IC3002	8-759-710-97	IC	NJM4565M-D
< JACK >			
J309	1-770-377-21	JACK, PIN 1P (SUB WOOFER)	
J402	1-770-614-11	JACK, PIN 4P (VIDEO 1)	
J403	1-770-614-11	JACK, PIN 4P (SAT/DVD)	
J405	1-774-411-11	JACK, PIN 6P (SA-CD/CD/CD-R/TV)	

57

STR-K990

MAIN

Ref. No.	Part No.	Description	Remark			
△ R616	1-234-182-11	ENCAPSULATED COMPONENT				
△ R617	1-249-393-11	CARBON	10	5%	1/4W	
△ R618	1-249-389-11	CARBON	4.7	5%	1/4W	
R620	1-216-214-00	RES-CHIP	4.7K	2%	1/8W	
△ R621	1-240-855-91	CARBON	6.2K	5%	1/4W	
R622	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R623	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R624	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R625	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R631	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R632	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R633	1-216-821-11	METAL CHIP	1K	5%	1/10W	
△ R634	1-249-404-00	CARBON	82	5%	1/4W	
△ R635	1-249-404-00	CARBON	82	5%	1/4W	
△ R638	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R640	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R648	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R651	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R652	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R653	1-208-445-41	RES-CHIP	2.2K	2%	1/10W	
R654	1-208-826-11	METAL CHIP	68K	0.5%	1/10W	
R655	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R656	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R657	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R660	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R661	1-216-844-11	METAL CHIP	82K	5%	1/10W	
R663	1-216-818-11	METAL CHIP	560	5%	1/10W	
△ R664	1-249-399-11	CARBON	33	5%	1/4W	
△ R665	1-249-399-11	CARBON	33	5%	1/4W	
△ R666	1-234-182-11	ENCAPSULATED COMPONENT				
△ R667	1-249-393-11	CARBON	10	5%	1/4W	
△ R668	1-249-389-11	CARBON	4.7	5%	1/4W	
R669	1-216-214-00	RES-CHIP	4.7K	2%	1/8W	
△ R671	1-240-855-91	CARBON	6.2K	5%	1/4W	
R672	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R673	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R674	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R675	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R676	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R677	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R680	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R681	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R690	1-216-849-11	METAL CHIP	220K	5%	1/10W	
△ R692	1-215-889-00	METAL OXIDE	330	5%	2W	
R693	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R694	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R695	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R696	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R698	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R699	1-216-853-11	METAL CHIP	470K	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	
R710	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R711	1-216-844-11	METAL CHIP	82K	5%	1/10W	
R713	1-216-818-11	METAL CHIP	560	5%	1/10W	
△ R714	1-249-399-11	CARBON	33	5%	1/4W	

Ref. No.	Part No.	Description	Remark			
△ R715	1-249-399-11	CARBON	33	5%	1/4W	
△ R716	1-234-182-11	ENCAPSULATED COMPONENT				
△ R717	1-249-393-11	CARBON	10	5%	1/4W	
△ R718	1-249-389-11	CARBON	4.7	5%	1/4W	
R719	1-216-214-00	RES-CHIP	4.7K	2%	1/8W	
△ R721	1-240-855-91	CARBON	6.2K	5%	1/4W	
R722	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R723	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R724	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R725	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R729	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R731	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
△ R732	1-249-381-11	CARBON	1	5%	1/4W	
△ R733	1-249-381-11	CARBON	1	5%	1/4W	
△ R734	1-249-404-00	CARBON	82	5%	1/4W	
R735	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R736	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R737	1-216-840-11	METAL CHIP	39K	5%	1/10W	
R738	1-249-404-00	CARBON	82	5%	1/4W	
R739	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R740	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R741	1-216-230-00	RES-CHIP	22K	2%	1/8W	
R743	1-216-230-00	RES-CHIP	22K	2%	1/8W	
R744	1-216-230-00	RES-CHIP	22K	2%	1/8W	
R745	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R746	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R747	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R748	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R749	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R750	1-216-837-11	METAL CHIP	22K	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	
R755	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R756	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R757	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R758	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R759	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R760	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R761	1-216-844-11	METAL CHIP	82K	5%	1/10W	
R763	1-216-818-11	METAL CHIP	560	5%	1/10W	
△ R764	1-249-399-11	CARBON	33	5%	1/4W	
△ R765	1-249-399-11	CARBON	33	5%	1/4W	
△ R766	1-234-182-11	ENCAPSULATED COMPONENT				
△ R767	1-249-393-11	CARBON	10	5%	1/4W	
△ R768	1-249-389-11	CARBON	4.7	5%	1/4W	
R769	1-216-214-00	RES-CHIP	4.7K	2%	1/8W	
R770	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R771	1-240-855-91	CARBON	6.2K	5%	1/4W	
R772	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R773	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R775	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R778	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R780	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R790	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R791	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	

MAIN

POWER KEY

STANDBY

Ref. No.	Part No.	Description	Remark			
△ R792	1-215-868-00	METAL OXIDE	680	5%	1W	
△ R793	1-249-404-00	CARBON	82	5%	1/4W	
△ R794	1-215-868-00	METAL OXIDE	680	5%	1W	
△ R802	1-249-409-11	CARBON	220	5%	1/4W	
△ R803	1-249-389-11	CARBON	4.7	5%	1/4W	
R804	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R806	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R824	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
△ R830	1-249-404-00	CARBON	82	5%	1/4W	
R840	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R843	1-216-864-11	SHORT CHIP	0			
R844	1-216-837-11	METAL CHIP	22K	5%	1/10W	
△ R910	1-240-877-11	FUSIBLE	0.15	5%	1/2W	
R3010	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R3011	1-218-887-11	METAL CHIP	47K	0.5%	1/10W	
R3012	1-218-887-11	METAL CHIP	47K	0.5%	1/10W	
R3013	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R3020	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R3021	1-218-887-11	METAL CHIP	47K	0.5%	1/10W	
R3022	1-218-887-11	METAL CHIP	47K	0.5%	1/10W	
R3023	1-216-841-11	METAL CHIP	47K	5%	1/10W	
< RELAY >						
RY560	1-755-267-11	RELAY				
RY601	1-755-170-11	RELAY (12V)				
RY610	1-755-170-11	RELAY (12V)				
RY701	1-755-170-11	RELAY (12V)				
RY710	1-755-170-11	RELAY (12V)				
RY791	1-755-170-11	RELAY (12V)				
RY801	1-755-593-11	RELAY				
< TERMINAL >						
TB001	1-780-498-11	BANANA-PUSH TERMINAL BOARD (8P) (FRONT A/SURROUND)				
TM602	1-537-240-11	TERMINAL BOARD (CHECKER PIN) (FRONT B)				
TM604	1-780-500-11	BANANA-PUSH TERMINAL BOARD (2P) (CENTER)				

POWER KEY BOARD						

< CONNECTOR >						
* CN103	1-691-670-11	CONNECTOR, BOARD TO BOARD 5P				
< RESISTOR >						
R111	1-249-415-11	CARBON	680	5%	1/4W	
< SWITCH >						
S100	1-771-410-21	SWITCH, TACTILE (I/⏻)				
S115	1-771-410-21	SWITCH, TACTILE (SPEAKERS(OFF/A/B/A+B))				

STANDBY BOARD						

< CAPACITOR >						
C913	1-127-888-11	CERAMIC	0.1uF	10%	50V	

Ref. No.	Part No.	Description	Remark			
C914	1-127-888-11	CERAMIC	0.1uF	10%	50V	
C915	1-126-943-11	ELECT	2200uF	20%	25V	
C916	1-126-942-61	ELECT	1000uF	20%	25V	
C920	1-127-888-11	CERAMIC	0.1uF	10%	50V	
C921	1-127-888-11	CERAMIC	0.1uF	10%	50V	
C922	1-127-888-11	CERAMIC	0.1uF	10%	50V	
C924	1-126-960-11	ELECT	1uF	20%	50V	
C950	1-126-936-11	ELECT	3300uF	20%	16V	
< CONNECTOR >						
* CNP802	1-564-509-11	PLUG, CONNECTOR 6P				
* CNP804	1-564-506-11	PLUG, CONNECTOR 3P				
* CNP805	1-564-506-11	PLUG, CONNECTOR 3P				
CNP901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P				
* CNP902	1-565-792-11	PIN, CONNECTOR (3.96mm PITCH) 2P				
* CNP903	1-564-508-11	PLUG, CONNECTOR 5P				
< DIODE >						
D901	8-719-991-33	DIODE 1SS133T-77				
D910	6-500-522-11	DIODE 10EDB40-TA2B5				
D911	6-500-522-11	DIODE 10EDB40-TA2B5				
D912	6-500-522-11	DIODE 10EDB40-TA2B5				
D913	6-500-522-11	DIODE 10EDB40-TA2B5				
D914	8-719-991-33	DIODE 1SS133T-77				
D915	8-719-991-33	DIODE 1SS133T-77				
△ D920	6-500-522-11	DIODE 10EDB40-TA2B5				
△ D921	6-500-522-11	DIODE 10EDB40-TA2B5				
△ D922	6-500-522-11	DIODE 10EDB40-TA2B5				
△ D923	6-500-522-11	DIODE 10EDB40-TA2B5				
< FUSE HOLDER >						
FH901	1-533-217-41	HOLDER, FUSE				
FH902	1-533-217-41	HOLDER, FUSE				
< GROUND TERMINAL >						
G901	1-537-738-21	TERMINAL, GROUND				
< TRANSISTOR >						
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q921	8-729-119-78	TRANSISTOR 2SC2785-HFE				
< RESISTOR >						
△ R810	1-243-634-91	FUSIBLE	0.22	5%	1/2W	
△ R811	1-243-634-91	FUSIBLE	0.22	5%	1/2W	
R901	1-219-237-91	SOLID	3.3M	20%	1/2W	
R902	1-247-871-91	CARBON	47K	5%	1/4W	
R903	1-249-421-11	CARBON	2.2K	5%	1/4W	
△ R904	1-249-381-11	CARBON	1	5%	1/4W	
R921	1-247-871-91	CARBON	47K	5%	1/4W	
R922	1-247-863-91	CARBON	22K	5%	1/4W	
R923	1-249-429-11	CARBON	10K	5%	1/4W	
< RELAY >						
△ RY901	1-755-541-11	RELAY				

STR-K990

Ver. 1.1

STANDBY

VIDEO

VIDEO3

Ref. No.	Part No.	Description	Remark			
< TRANSFORMER >						
△ T902	1-443-516-11	POWER TRANSFORMER				

VIDEO BOARD						

< CAPACITOR >						
C206	1-126-964-11	ELECT	10uF	20%	50V	
C207	1-126-964-11	ELECT	10uF	20%	50V	
C208	1-126-964-11	ELECT	10uF	20%	50V	
C209	1-126-964-11	ELECT	10uF	20%	50V	
C210	1-126-947-11	ELECT	47uF	20%	35V	
C213	1-126-947-11	ELECT	47uF	20%	35V	
C214	1-127-888-11	CERAMIC	0.1uF	10%	50V	
C215	1-127-888-11	CERAMIC	0.1uF	10%	50V	
C220	1-126-947-11	ELECT	47uF	20%	35V	
C221	1-126-947-11	ELECT	47uF	20%	35V	
C223	1-135-799-11	CERAMIC	0.47uF		50V	
C224	1-135-799-11	CERAMIC	0.47uF		50V	
C308	1-126-964-11	ELECT	10uF	20%	50V	
C309	1-126-964-11	ELECT	10uF	20%	50V	
C310	1-126-964-11	ELECT	10uF	20%	50V	
C311	1-126-964-11	ELECT	10uF	20%	50V	
C312	1-126-964-11	ELECT	10uF	20%	50V	
C313	1-126-964-11	ELECT	10uF	20%	50V	
C314	1-126-964-11	ELECT	10uF	20%	50V	
C315	1-126-964-11	ELECT	10uF	20%	50V	
C316	1-126-964-11	ELECT	10uF	20%	50V	
C330	1-127-888-11	CERAMIC	0.1uF	10%	50V	
C331	1-127-888-11	CERAMIC	0.1uF	10%	50V	
C337	1-126-947-11	ELECT	47uF	20%	35V	
C338	1-126-947-11	ELECT	47uF	20%	35V	
C341	1-127-888-11	CERAMIC	0.1uF	10%	50V	
< CONNECTOR >						
CNP202	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P				
* CNP203	1-564-507-11	PLUG, CONNECTOR 4P				
CNS207	1-784-774-11	CONNECTOR, FFC 13P				
< DIODE >						
D203	8-719-991-33	DIODE 1SS133T-77				
D204	8-719-991-33	DIODE 1SS133T-77				
< IC >						
IC203	6-701-890-01	IC NJM2595D				
IC304	6-707-363-01	IC NJM2586AL				
△ IC804	8-759-245-79	IC TA79005S				
△ IC807	8-759-231-53	IC TA7805S				
< JACK >						
J200	1-794-978-11	JACK, PIN 3P (DVD,VIDEO 1,SAT)				
J201	1-815-043-11	JACK, PIN 2P (VIDEO 1,MONITOR)				
J301	1-816-592-11	JACK, PIN 9P (COMPONENT VIDEO)				
J302	1-815-360-11	JACK, PIN 3P (MONITOR OUT)				

Ref. No.	Part No.	Description	Remark			
< RESISTOR >						
R200	1-247-804-11	CARBON	75	5%	1/4W	
R201	1-247-804-11	CARBON	75	5%	1/4W	
R218	1-247-804-11	CARBON	75	5%	1/4W	
R219	1-247-804-11	CARBON	75	5%	1/4W	
R220	1-247-804-11	CARBON	75	5%	1/4W	
R221	1-247-804-11	CARBON	75	5%	1/4W	
R301	1-247-804-11	CARBON	75	5%	1/4W	
R302	1-247-804-11	CARBON	75	5%	1/4W	
R303	1-247-804-11	CARBON	75	5%	1/4W	
R304	1-247-804-11	CARBON	75	5%	1/4W	
R305	1-247-804-11	CARBON	75	5%	1/4W	
R306	1-247-804-11	CARBON	75	5%	1/4W	
R307	1-247-804-11	CARBON	75	5%	1/4W	
R308	1-247-804-11	CARBON	75	5%	1/4W	
R309	1-247-804-11	CARBON	75	5%	1/4W	
R310	1-247-804-11	CARBON	75	5%	1/4W	
R311	1-247-804-11	CARBON	75	5%	1/4W	
R312	1-247-804-11	CARBON	75	5%	1/4W	

VIDEO3 BOARD						

< CAPACITOR >						
C293	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C294	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C298	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C299	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
< CONNECTOR >						
CN201	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P				
* CN202	1-690-880-31	LEAD (WITH CONNECTOR)				
< JACK >						
J298	1-819-187-11	PIN JACK 3P (VIDEO3 IN / PORTABLE AV IN)				
< RESISTOR >						
R298	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R299	1-216-821-11	METAL CHIP	1K	5%	1/10W	

MISCELLANEOUS						

8	1-828-994-11	WIRE (FLAT TYPE) (17 CORE)				
△ 57	1-783-820-11	CORD, POWER				
59	1-828-972-11	WIRE (FLAT TYPE) (13 CORE)				
60	1-828-953-11	WIRE (FLAT TYPE) (9 CORE)				
△ F4001	1-532-465-33	FUSE (T3.15AL/250V)				
△ F4002	1-532-465-33	FUSE (T3.15AL/250V)				
△ F901	1-533-453-12	FUSE, GLASS TUBE (DIA. 5) (5A/125V)				
△ Q503	6-702-390-01	IC MN2488-OPY-MK				
△ Q504	6-702-391-01	IC MP1620-OPY-MK				
△ Q603	6-702-390-01	IC MN2488-OPY-MK				
△ Q604	6-702-391-01	IC MP1620-OPY-MK				
△ Q653	6-702-390-01	IC MN2488-OPY-MK				
△ Q654	6-702-391-01	IC MP1620-OPY-MK				
△ Q703	6-702-390-01	IC MN2488-OPY-MK				

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
△ 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	
△ T901	1-443-524-11	POWER TRANSFORMER	
TN1	1-693-733-11	TUNER (FM/AM)	

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the top of the revised page allows you to jump to the next revised page.

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