STR-K7200

SERVICE MANUAL

US Model

Ver. 1.0 2008.02



- STR-K7200 is the receiver section in HT-7200DH.

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

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

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 Output[1)]

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

Surround mode (reference)
(6 ohms 1 kHz, THD 10%)
RMS Output[2)]
FRONT: 140 W per channel
CENTER: 140 W
SURROUND: 140 W per channel

[1)]Measured under 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 kHz[3)]
- With 9-kHz tuning scale: 531 – 1,710 kHz[3)]

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.

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

– Continued on next page –

MULTI CHANNEL AV RECEIVER

9-887-947-01
2008B05-1
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Sony Corporation
Audio Business Gourp
Published by Sony Techno Create Corporation

SONY

General

Power requirements	120 V AC, 60 Hz
Power output (DIGITAL MEDIA PORT)	
DC OUT	5 V, 0.7A MAX
Power consumption	170 W
Power consumption (during standby mode)	
	0.3 W (when "CONTROL FOR HDMI" in VIDEO menu is set to "CTRL OFF")
Dimensions (w/h/d) (Approx.)	
	17 × 6 1/4 × 12 5/8 inches (430 × 157.5 × 318 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)

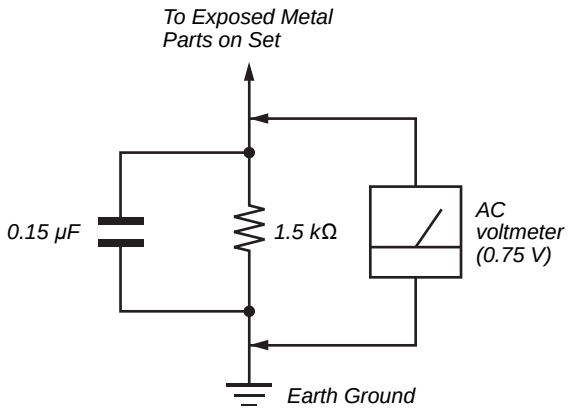


Fig. A. Using an AC voltmeter to check AC leakage.

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.

SAFETY-RELATED COMPONET WARNING!

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

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SERVICING NOTES

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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 viscou-s (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.

NOTE OF REPLACING THE IC3511 AND IC3513 ON THE HDMI BOARD

IC3511 and IC3513 on the HDMI board cannot exchange with single. When IC3511 and IC3513 on the HDMI board are damaged, exchange the entire mounted board.

NOTE OF REPLACING THE IC1131 ON THE DIGITAL AB BOARD

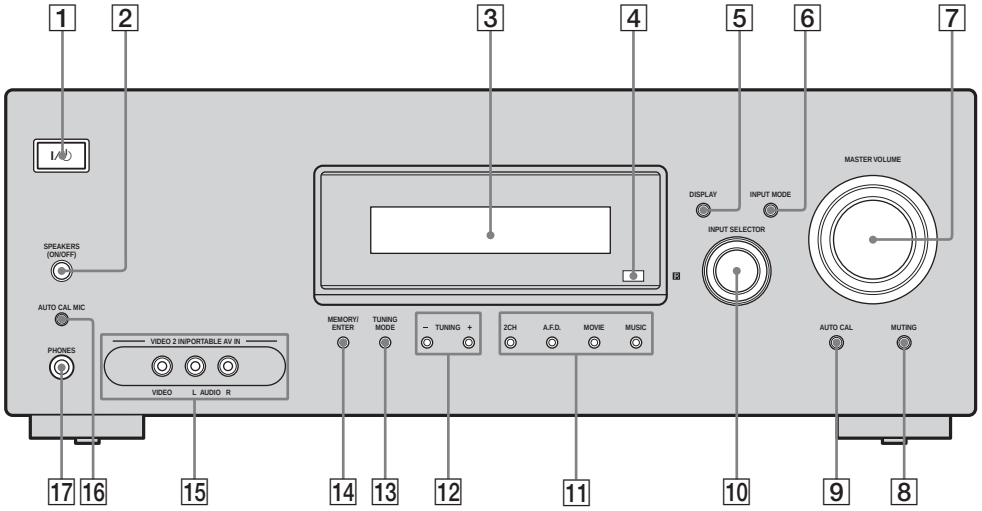
IC1131 on the DIGITAL AB board cannot exchange with single. When IC1131 on the DIGITAL AB board is damaged, exchange the entire mounted board.

SECTION 2
GENERAL

Thia section is extracted from instruction manual.

Receiver

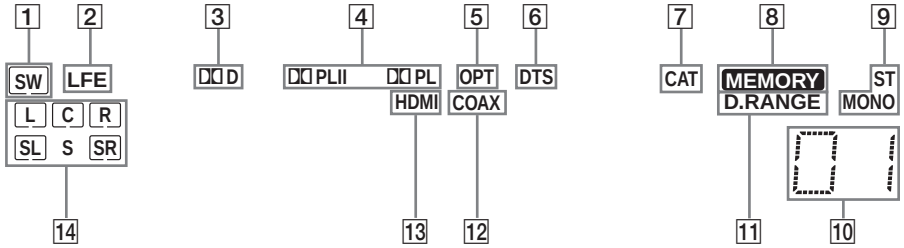
Front panel



Name	Function
1 **I/⏻ (on/standby)**	Press to turn the receiver on or off.
2 **SPEAKERS (ON/OFF)**	Press to turn the speaker system on or off.
3 **Display**	The current status of the selected component or a list of selectable items appears here.
4 **Remote sensor**	Receives signals from remote commander.
5 **DISPLAY**	Press to select information displayed on the display.
6 **INPUT MODE**	Press to select the input mode when the same components are connected to both digital and analog jacks.
7 **MASTER VOLUME**	Turn to adjust the volume level of all speakers at the same time.
8 **MUTING**	Press to turn off the sound temporarily. Press MUTING again to restore the sound.

Name	Function
9 **AUTO CAL**	Press to activate the Auto Calibration function.
10 **INPUT SELECTOR**	Turn to select the input source to play back.
11 **2CH**	Press to select a sound field.
A.F.D.	
MOVIE	
MUSIC	
12 **TUNING +/–**	Press to scan a station.
13 **TUNING MODE**	Press to select the tuning mode.
14 **MEMORY/ ENTER**	Press to store a station or enter the selection when selecting the settings.
15 **VIDEO 2 IN/ PORTABLE AV IN jacks**	Connect to a portable audio/video component such as a camcorder or video game.
16 **AUTO CAL MIC jack**	Connects to the supplied optimizer microphone for the Auto Calibration function.
17 **PHONES jack**	Connects to headphones.

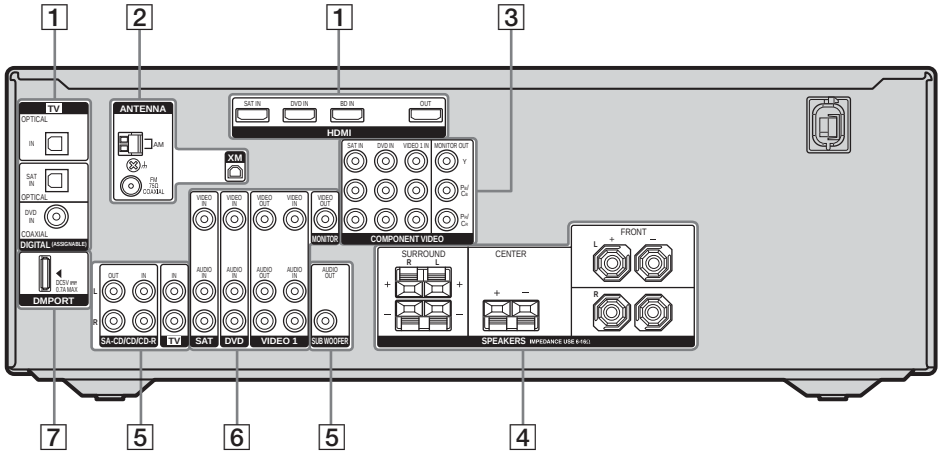
About the indicators on the display



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 **D D**	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 set to "AUTO".
4 **D D PL/ D D PLII**	"D D PL" lights up when the receiver applies Pro Logic processing to 2 channel signals in order to output the center and surround channel signals. "D D PLII" lights up when the Pro Logic II Movie or Music decoder is activated.
5 **OPT**	Lights up when INPUT MODE is set to "AUTO" and the source signal is a digital signal being input through the OPTICAL jack.
6 **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 set to "AUTO".
7 **CAT**	Lights up when category mode is set to "ONE CAT" during XM Radio operation.
8 **MEMORY**	Lights up when a memory function, such as Preset Memory, etc., is activated.

Name	Function
9 **Tuner indicators**	Lights up when using the receiver to tune in radio stations, etc.
10 **Preset station indicators**	Lights up when using the receiver to tune in radio stations you have preset. For details on presetting radio stations, see.
11 **D.RANGE**	Lights up when dynamic range compression is activated.
12 **COAX**	Lights up when INPUT MODE is set to "AUTO" and the source signal is a digital signal being input through the COAXIAL jack.
13 **HDMI**	Lights up when the receiver recognizes a component connected via an HDMI IN jack.
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 SW L C R SL SR

Rear panel



1 DIGITAL INPUT/OUTPUT section

	OPTICAL IN jacks	Connects to a DVD player, etc. The COAXIAL jack provides a better sound quality.
	COAXIAL IN jack	
	HDMI IN/ OUT* jacks	Connects to a DVD player, Blu-ray disc player, etc. The image is output to a TV or a projector while the sound can be output from a TV or/and speakers connected to this receiver.

2 ANTENNA section

	FM ANTENNA jack	Connects to the supplied FM wire antenna.
	AM ANTENNA terminals	Connects to the supplied AM loop antenna.
	XM terminal	Connects to the XM Mini-Tuner and Home Dock (not supplied).

3 COMPONENT VIDEO INPUT/ OUTPUT section

Green (Y) Blue (P_B/C_B) Red (P_R/C_R)	Y, P_B/C_B, P_R/C_R IN/OUT* jacks	Connects to a DVD player, TV, satellite tuner, etc. You can enjoy high quality image.

4 SPEAKERS section

	Connects to the supplied speakers.

5 AUDIO INPUT/OUTPUT section

White (L) Red (R)	AUDIO IN/ OUT jack	Connects to a Super Audio CD player, etc.
Black	AUDIO OUT jack	Connects to the supplied sub woofer.

6 VIDEO/AUDIO INPUT/OUTPUT section

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

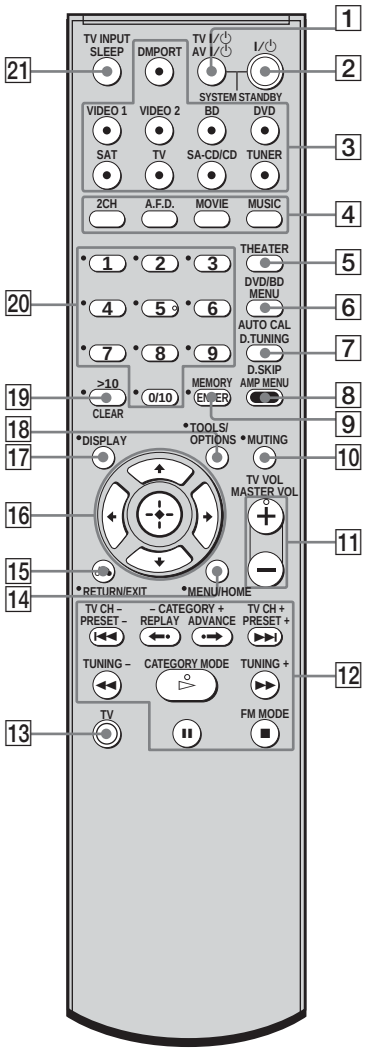
7 DMPORT

	Connects to a DIGITAL MEDIA PORT adapter.

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

Remote commander

You can use the supplied RM-AAU021 Remote Commander to operate the receiver and to control the Sony audio/video components that the remote is assigned to operate.



Name	Function
1 **TV I/⏻ (on/standby)**	Press TV I/⏻ and TV (13) at the same time to turn the TV on or off.
AV I/⏻ (on/standby)	Press to turn on or off the Sony audio/video components that the remote is assigned to operate. If you press I/⏻ (2) at the same time, it will turn off the receiver and other Sony components (SYSTEM STANDBY). **Note** The function of the AV I/⏻ switch changes automatically each time you press the input buttons (3).
2 **I/⏻ (on/standby)**	Press to turn the receiver on or off. To turn off all Sony 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 change the button assignments following the steps in "Changing button assignments".

Button	Assigned Sony component
DMPORT	DIGITAL MEDIA PORT adapter
VIDEO 1	VCR (VTR mode 3)
VIDEO 2	VCR (VTR mode 2)
BD	Blu-ray disc player
DVD	DVD player
SAT	Digital Satellite Receiver
TV	TV
SA-CD/CD	Super Audio CD/ CD player
TUNER	Built-in tuner

Name	Function
4 **2CH**	Press to select a sound field.
A.F.D.	
MOVIE	
MUSIC	
5 **THEATER**	Press to enjoy optimal image suited for movies and to output the sound from the speakers connected to this receiver automatically. **Note** This button will only function if your TV is compatible with Theater Mode. Refer to the operating instructions supplied with the TV for details.
6 **DVD/BD MENU**	Press to display the menu of the DVD or Blu-ray disc on the TV screen. Then, use ↑, ↓, ←, → and ⊕ (16) to perform menu operations.
AUTO CAL	Press to activate the Auto Calibration function.
7 **D.TUNING**	Press to enter direct tuning mode.
D.SKIP	Press to skip a disc when using a multi-disc changer.
8 **AMP MENU**	Press to display the menu of the receiver. Then, use ↑, ↓, ←, → and ⊕ (16) to perform menu operations.
9 **ENTER**	Press to enter the value after selecting a channel, disc or track using the numeric buttons of the TV, VCR or satellite tuner.
MEMORY	Press to store a station.
10 **MUTING**	Press to turn off the sound temporarily. Press MUTING again to restore the sound. Press MUTING and TV (13) at the same time to activate the TV's muting function.
11 **TV VOL +[a)]/–**	Press TV VOL +/– and TV (13) at the same time to adjust the volume level of the TV.
MASTER VOL +[a)]/–	Press to adjust the volume level of all speakers at the same time.

Name	Function
12 I◄◄ /►►I[b)]	Press to skip a track of the CD player, DVD player or Blu-ray disc player.
REPLAY ←· / ADVANCE ·→	Press to replay the previous scene or fast forward the current scene of the VCR, DVD player or Blu-ray disc player.
◄◄/►►[b)]	Press to – search tracks in the forward/ reverse direction of the DVD player. – start fast forward/rewind of the VCR, CD player or Blu-ray disc player.
▷[a)b)]	Press to start playback of the VCR, CD player, DVD player, or Blu-ray disc player.
❚❚[b)]	Press to pause playback or recording of the VCR, CD player, DVD player or Blu-ray disc player. (Also starts recording with components in recording standby.)
■[b)]	Press to stop playback of the VCR, CD player, DVD player or Blu-ray disc player.
TV CH +/–	Press TV CH +/– and TV (13) at the same time to select preset TV channels.
CATEGORY +/–	Press to select a category for XM Radio.
PRESET +/–	Press to select – preset stations. – preset channels of the VCR or satellite tuner.
TUNING +/–	Press to scan a station.
CATEGORY MODE	Press to select the category mode for XM Radio.
FM MODE	Press to select the FM monaural or stereo reception.
13 TV	Press TV and the button with orange printing at the same time to enable TV operation.

Name	Function
14 MENU/HOME	Press to display the menu of the VCR, DVD player, satellite tuner or Blu-ray disc player on the TV screen. Press MENU/HOME and TV (13) at the same time to display the TV's menu. Then, use ↑, ↓, ←, → and ⊕ (16) to perform menu operations.
15 RETURN/ EXIT ↶	Press to – return to the previous menu. – exit the menu while the menu or on-screen guide of the VCR, DVD player, satellite tuner or Blu-ray disc player is displayed on the TV screen. Press RETURN/EXIT and TV (13) at the same time to return to the previous menu or exit the TV's menu while the menu is displayed on the TV screen.
16 ⊕ ↑/↓/←/→	After pressing DVD/BD MENU (6), AMP MENU (8), or MENU/HOME (14) press ↑, ↓, ← or → to select the settings. Then, press ⊕ to enter the selection if you have pressed DVD/BD MENU or MENU/HOME previously. Press ⊕ also to enter the selection of the receiver, VCR, satellite tuner, CD player, DVD player or Blu-ray disc player.
17 DISPLAY	Press to select information displayed on the TV screen of the VCR, satellite tuner, CD player, DVD player or Blu-ray disc player. Press DISPLAY and TV (13) at the same time to display TV's information on the TV screen.

Name	Function
18 TOOLS/ OPTIONS	Press to display and select the options of the DVD player or Blu-ray disc player. Press TOOLS/OPTIONS and TV (13) at the same time to display the options applicable to the Sony TV.
19 ●	Press to input the decimal point for channel numbers of the Digital CATV terminal. Press ● and TV (13) at the same time to input the decimal point for the channel numbers of the TV.
>10	Press to select track numbers over 10 of the CD player.
CLEAR	Press to clear a mistake when you press the incorrect numeric button.
20 Numeric buttons (number 5[a)])	Press to – preset/tune to preset stations. – select track numbers of the CD player, DVD player or Blu-ray disc player. Press 0/10 to select track number 10. – select channel numbers of the VCR or satellite tuner. Press the numeric buttons and TV (13) at the same time to select the TV channels.
21 TV INPUT	Press TV INPUT and TV (13) at the same time to select the input signal (TV input or video input).
SLEEP	Press to activate the Sleep Timer function and the duration which the receiver turns off automatically.

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

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

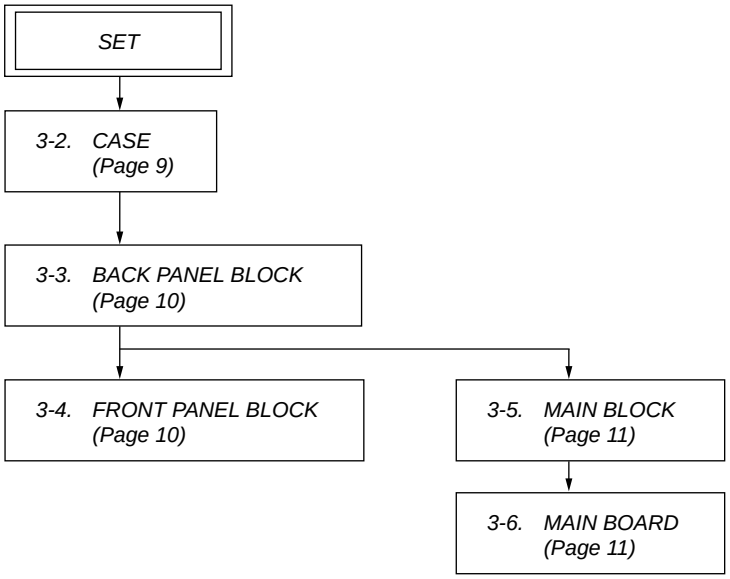
Notes

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

SECTION 3
DISASSEMBLY

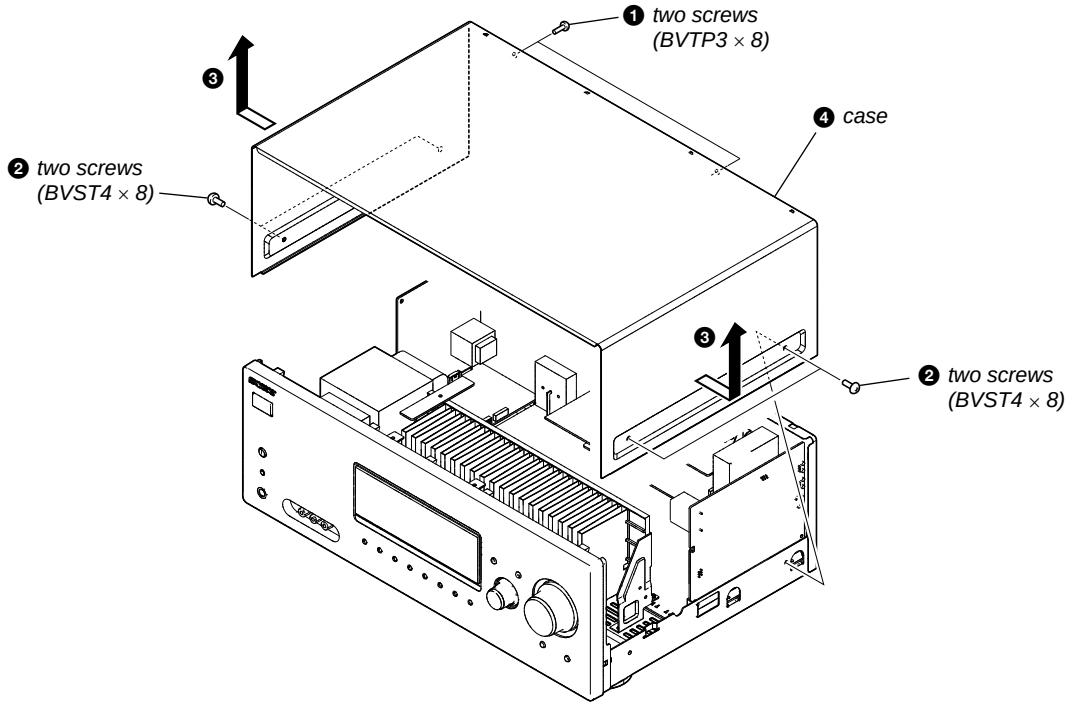
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

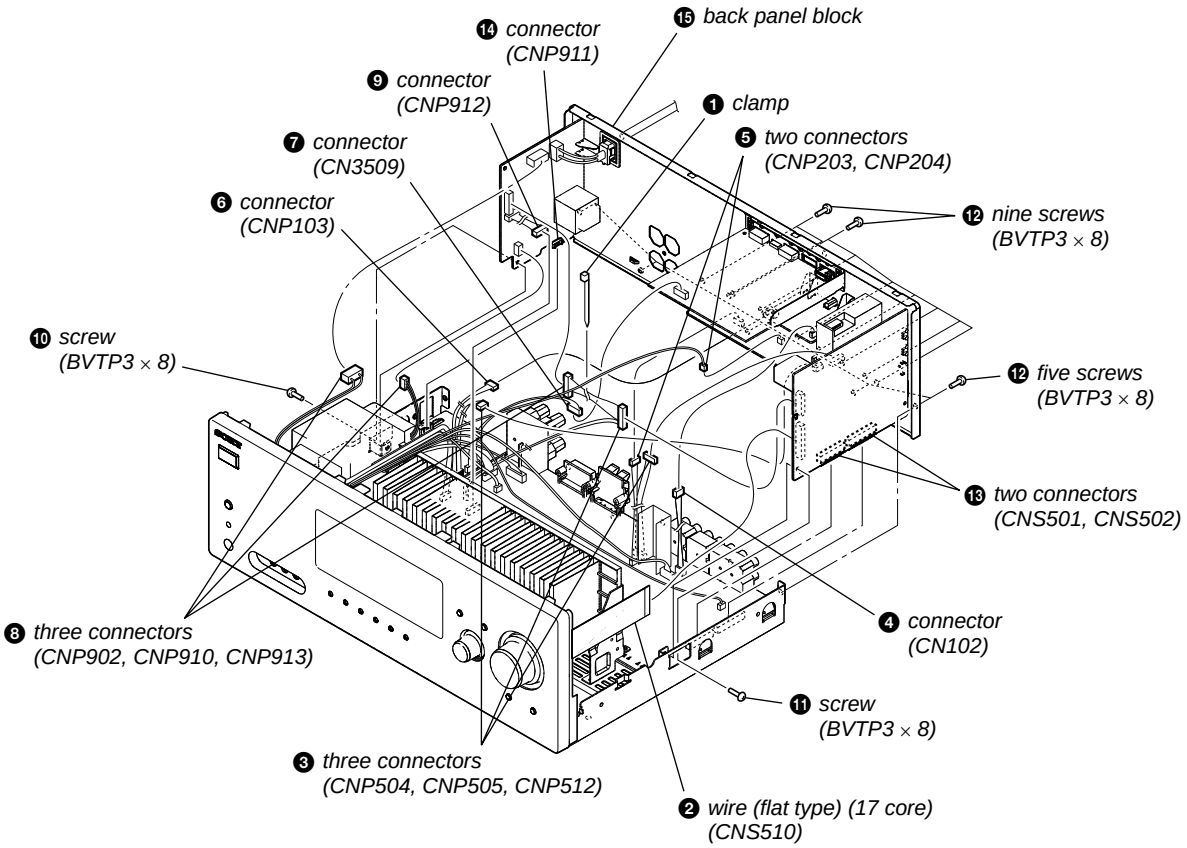


Note: Follow the disassembly procedure in the numerical order given.

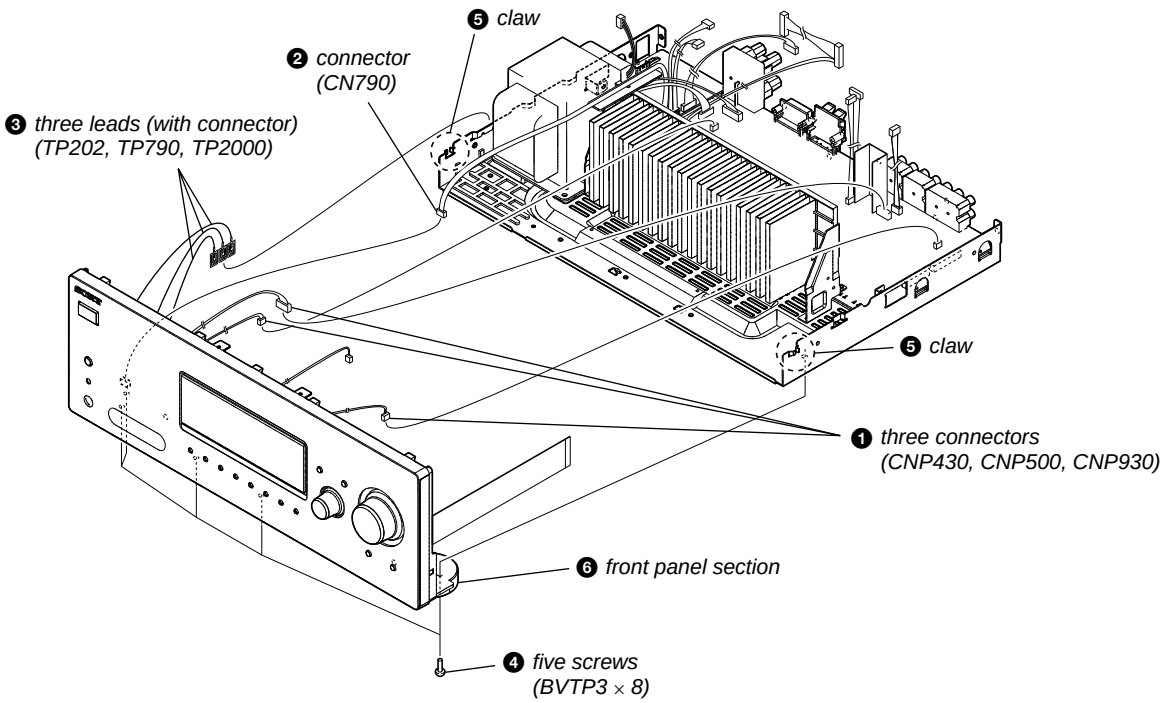
3-2. CASE



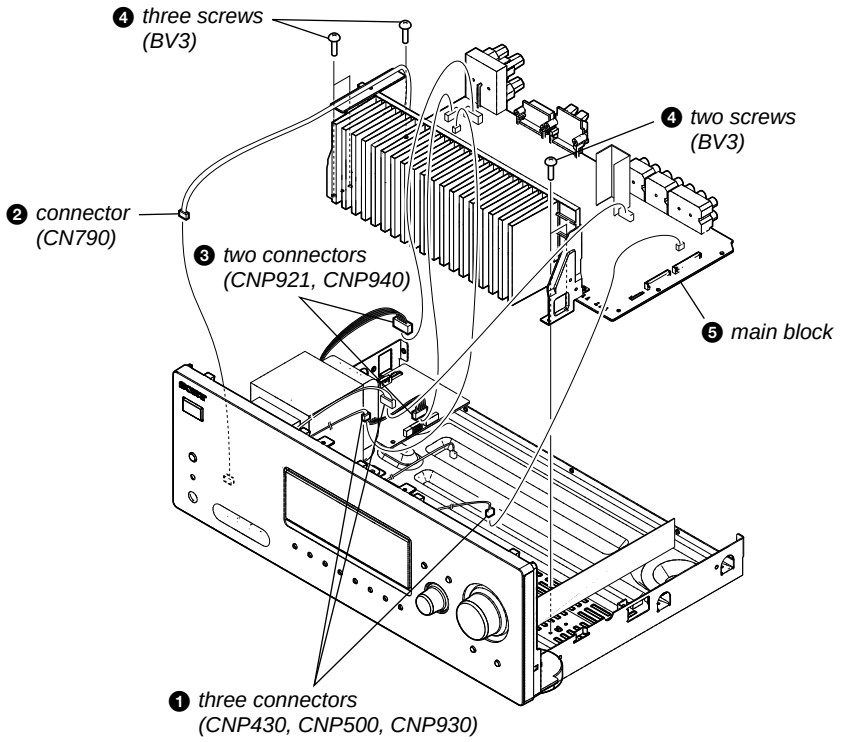
3-3. BACK PANEL BLOCK



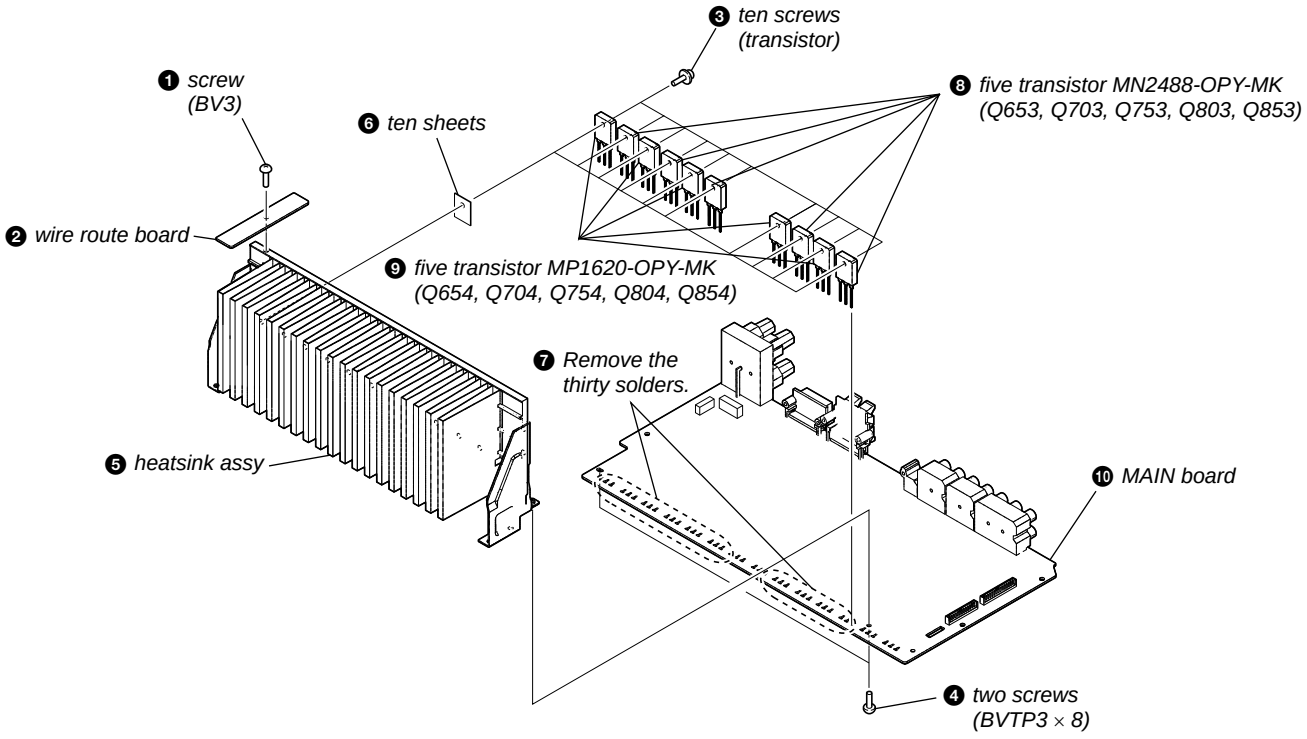
3-4. FRONT PANEL BLOCK



3-5. MAIN BLOCK



3-6. MAIN BOARD



SECTION 4
TEST MODE

TUNER AM STEP CHANGE (9 kHz/10 kHz) MODE

The AM tuning interval can be changed over 9 kHz or 10 kHz.

Procedure:

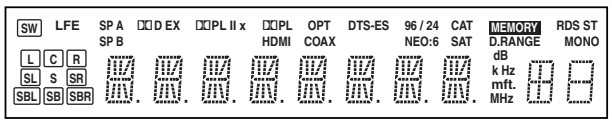
1. Press the [I/⏻] button to turn on the main power.
2. Turn the [INPUT SELECTOR] dial to select the "AM".
3. Press the [I/⏻] button to turn off the main power.
4. While pressing the [TUNING MODE] button, press the [I/⏻] button to turn on the main power.
5. The AM turning interval changed over 9 kHz or 10 kHz.

FL CHECK MODE

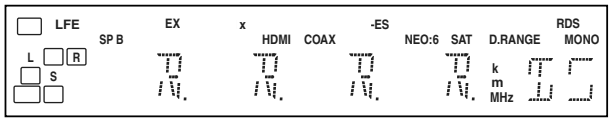
All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.

Procedure:

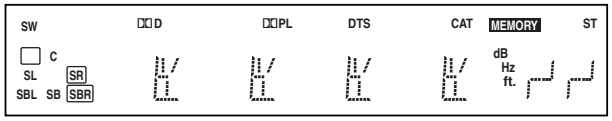
1. When pressing the [TUNING MODE] and [DISPLAY] buttons, press the [I/⏻] button to turn on the main power.
2. All segments turn on.



3. Turn the [INPUT SELECTOR] dial.
4. Test pattern 1 turn on.



5. Turn the [INPUT SELECTOR] dial once again.
6. Test pattern 2 turn on.



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

S.F. CLEAR MODE

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

Procedure:

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

VERSION CHECK MODE

When this mode is used the model, the destination and the software version number are displayed.

Procedure:

1. While pressing the [SPEAKERS (ON/OFF)] and [DISPLAY] buttons, press the [I/⏻] button to turn on the main power.
2. The model, the distination and the software version number appear.

KEY CHECK MODE

This mode is used to check the key.

Procedure:

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

SWAP ALL MODE

When this mode is used, output the audio signal of front L/R channel to all channel.

Procedure:

1. While pressing the [MEMORY/ENTER)] and [DISPLAY] buttons, press the [I/⏻] button to turn on the main power.
2. The message "DSP TEST" appears.
3. Press the [AMP MENU] button on the remote commander, and the message "9_DSPTST" appears.
4. Press the [→] button on the remote commander to enter the DSP test mode menu.
5. Press the [↓] button on the remote commander twice to enter the swap mode, and the message "SWP.AUTO" appears.
6. Press the [→] button on the remote commander twice to select "SWP.□ALL".

SHIPMENT MODE

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

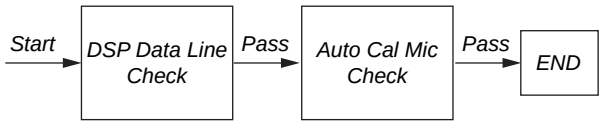
Procedure:

1. While pressing the [SPEAKERS (ON/OFF)] and [MUSIC] buttons, press the [I/⏻] button to turn on the main power.
2. The message "CLEARING" appears.

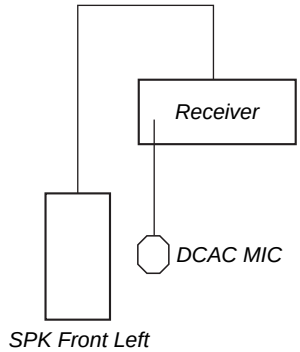
DCAC FACTORY TEST MODE

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 :
   While pressing the [MEMORY/ENTER] and [MOVIE] buttons, press the [I/⏻] button to turn on the main power .
   "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] button, DCAC Factory test mode will start, below display will show:

"DCAC x" x = 1, 2, 3, 4

If there is error happen, below display will show:

"ERR SD0x" x = 1 → D1501 or R1530 problem
x = 2 → D1502 problem
x = 3 → D1503 problem
x = 4 → D1504 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)

RE-BOX CLASSIFICATION TEST MODE

Procedure:

1. While pressing the [MEMORY/ENTER] and [INPUTMODE] buttons, press the [I/⏻] button to turn on the main power.
2. The message "R.BOX□□□XX" appears.
   XX: times set powered on

VACS CONTROL TEST MODE

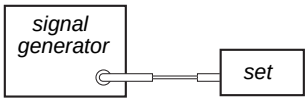
The VACS feature of the amplifier is turned off purposely.

Procedure:

1. While pressing the [MEMORY/ENTER] and [2CH] buttons, press the [I/⏻] button to turn on the main power.
2. The message "VACS OFF" appears.

SECTION 5
ELECTRICAL CHECK

FM AUTO STOP CHECK



Procedure:

1. Turn on the set.
2. Input the following signal from signal generator to FM antenna input directly.

Carrier frequency: A = 87.5 MHz, B = 98 MHz, C = 108 MHz

Deviation : 75 kHz
Modulation : 1 kHz
ANT input : 1 kHz

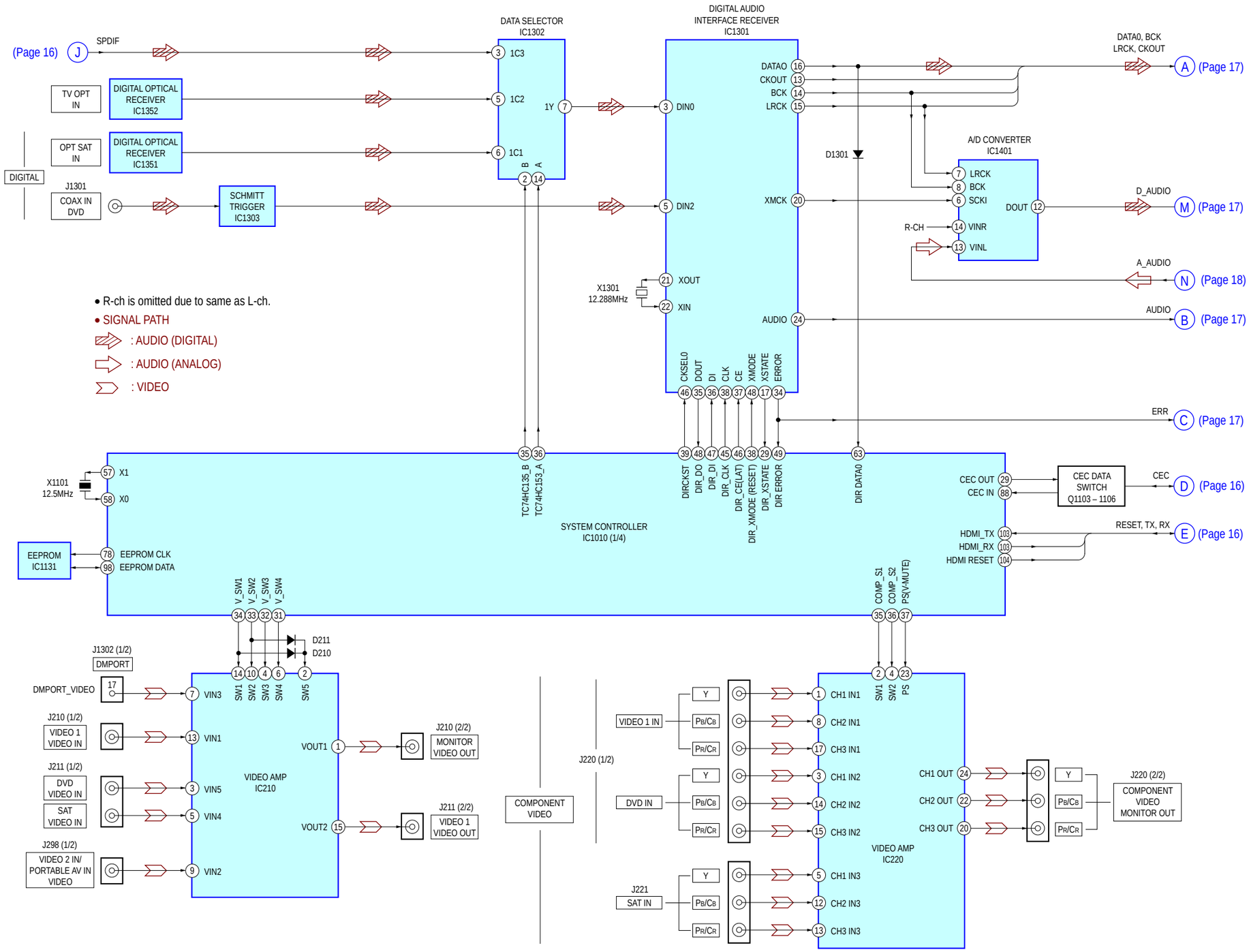
Note: Use 75 ohm coaxial cable to connect signal generator and the set.
You cannot use video cable for checking.
Use signal generator whose output impedance is 75 ohm.

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.

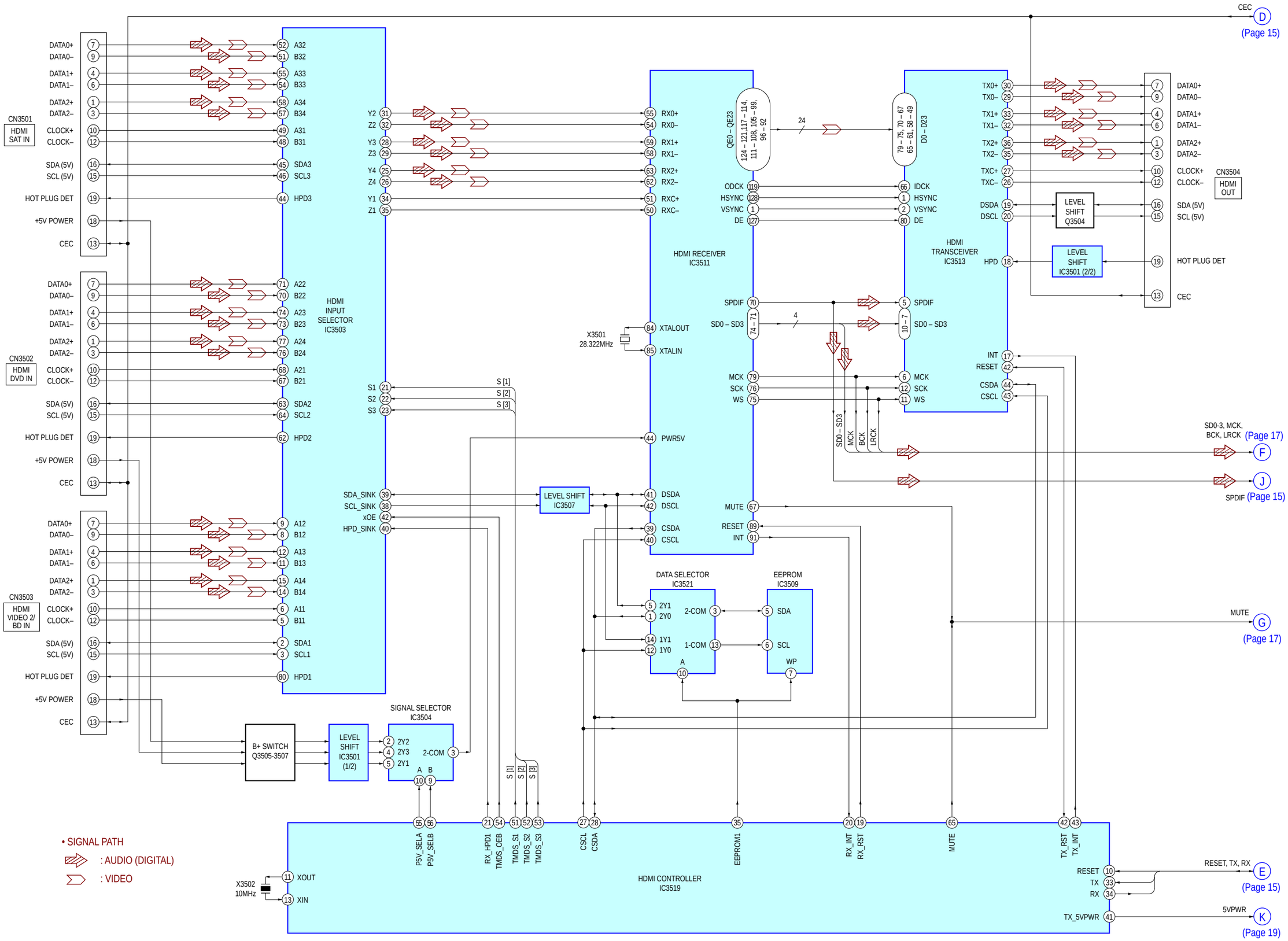
When the station signal is received in good condition, automatic scanning stops.

SECTION 6
DIAGRAMS

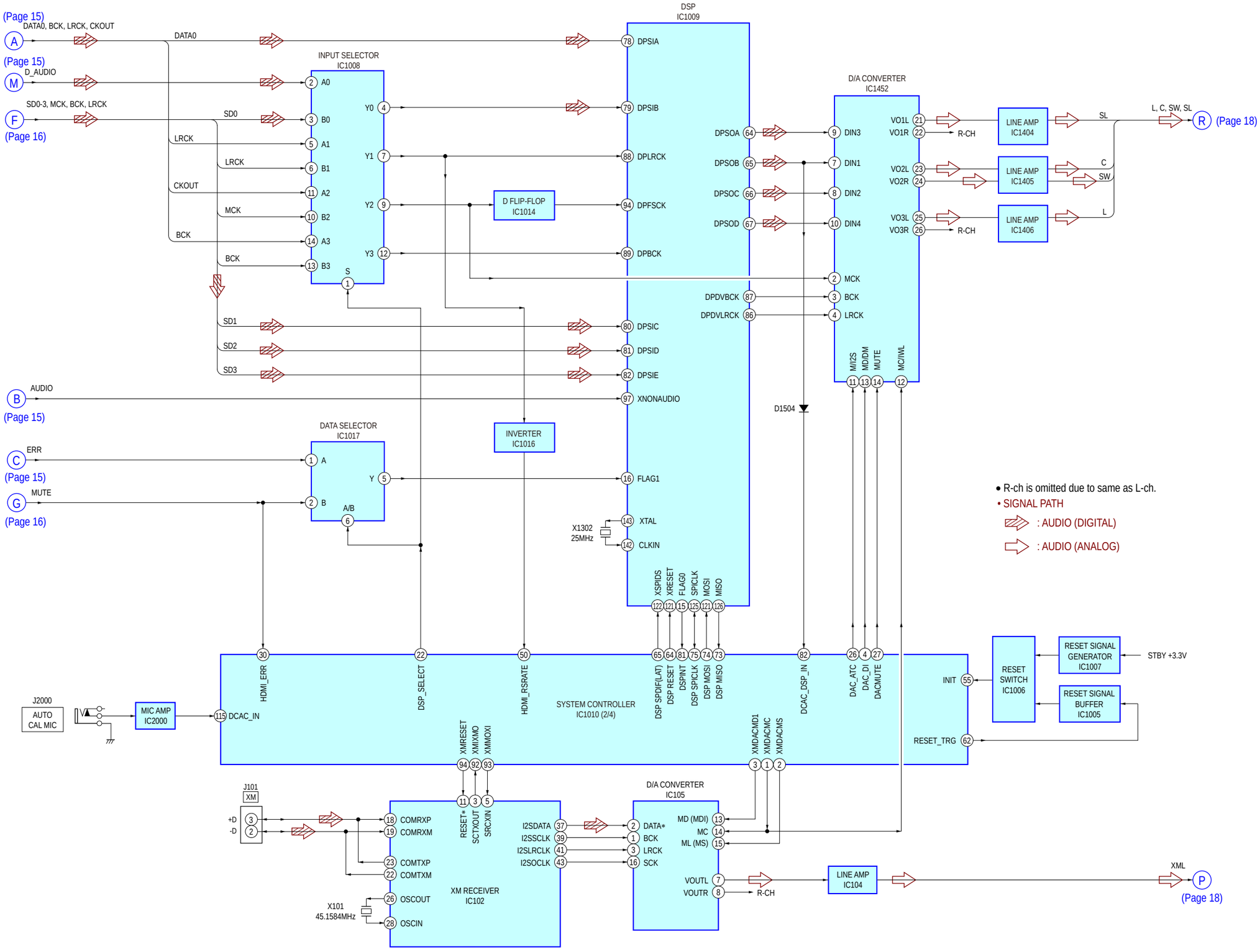
6-1. BLOCK DIAGRAM - MAIN Section -



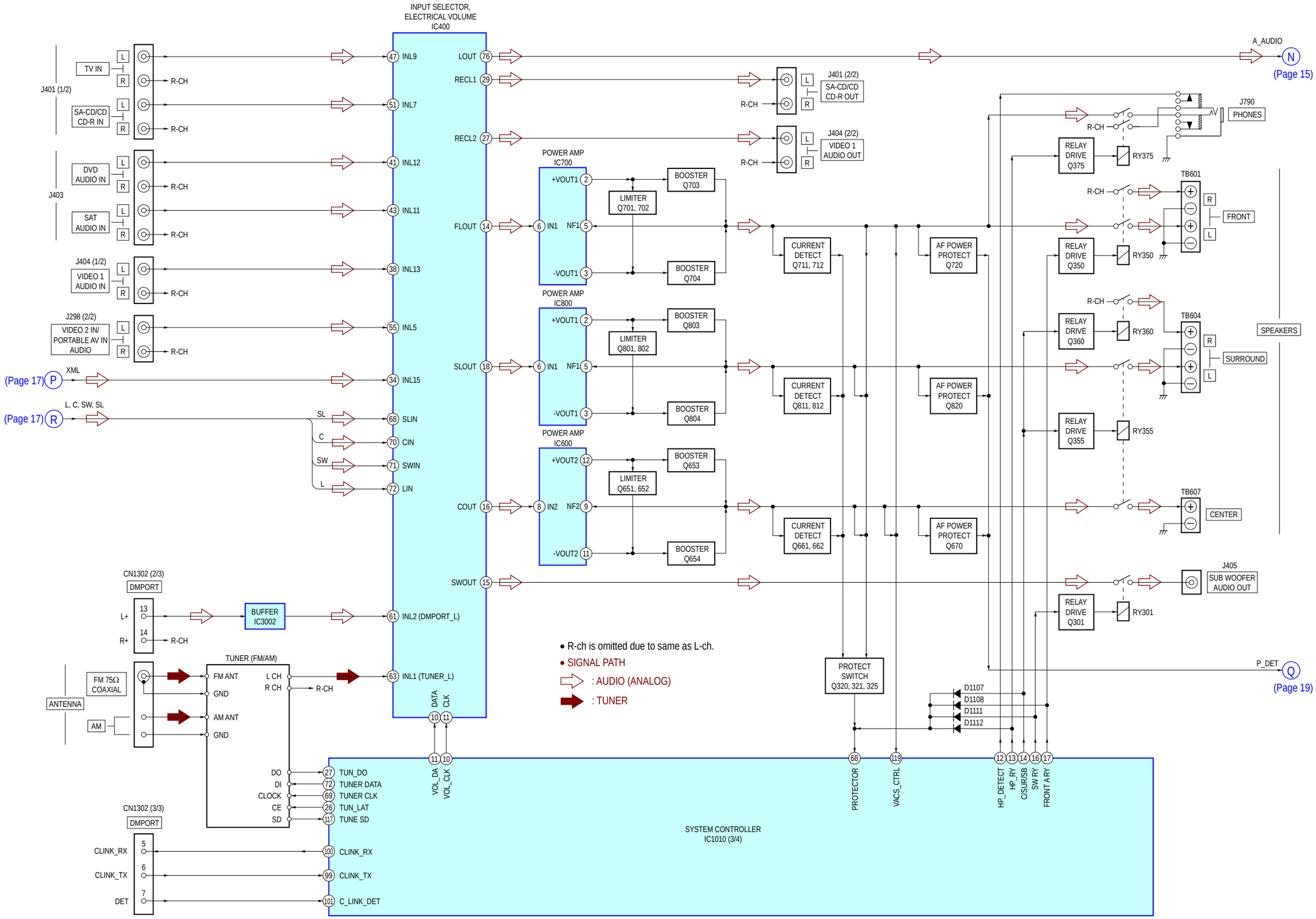
6-2. BLOCK DIAGRAM - HDMI Section -



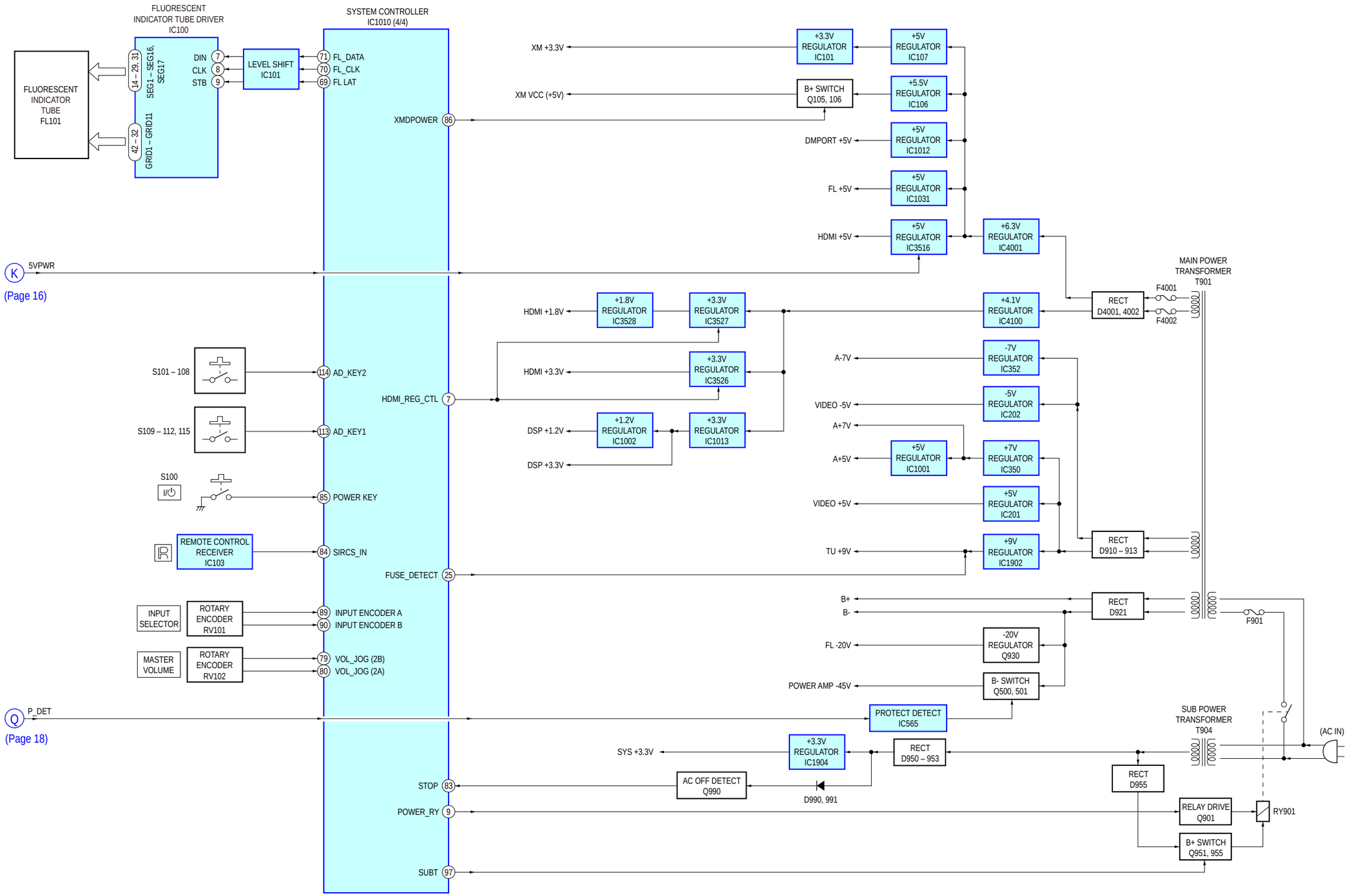
6-3. BLOCK DIAGRAM - DSP/XM Section -



6-4. BLOCK DIAGRAM - AUDIO Section -



6-5. BLOCK DIAGRAM - POWER SUPPLY Section -



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

For Printed Wiring Boards.

Note:

- ○——— : Parts extracted from the component side.
- ——— : Parts extracted from the conductor side.
- △ : Internal component.
- ▬ : Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

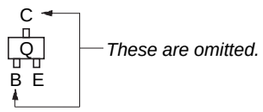
Caution:

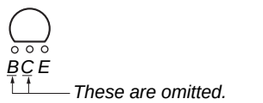
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Pattern face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

Caution:

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

- Indication of transistor.





For Schematic Diagrams.

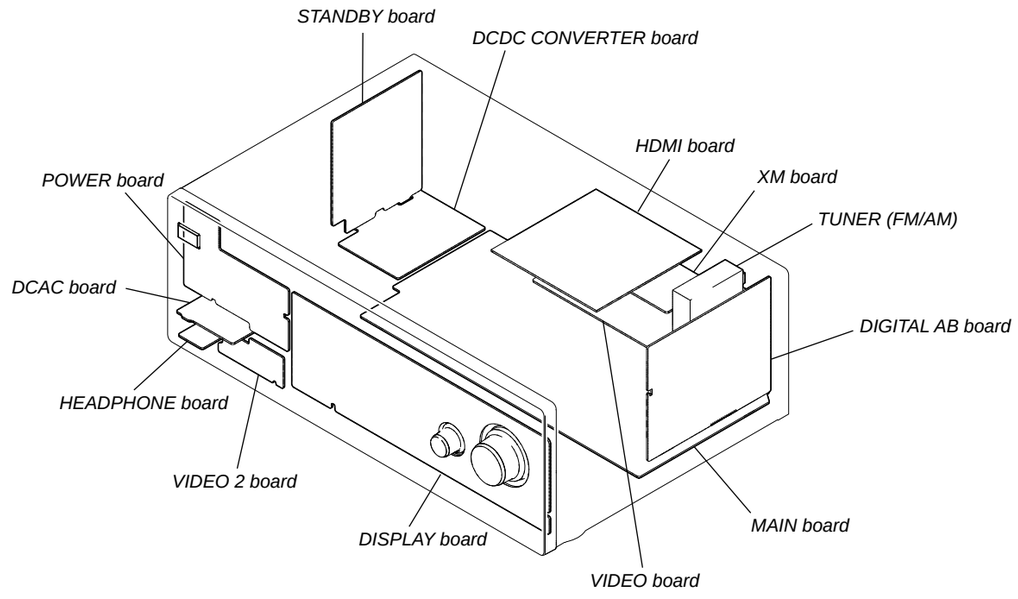
Note:

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

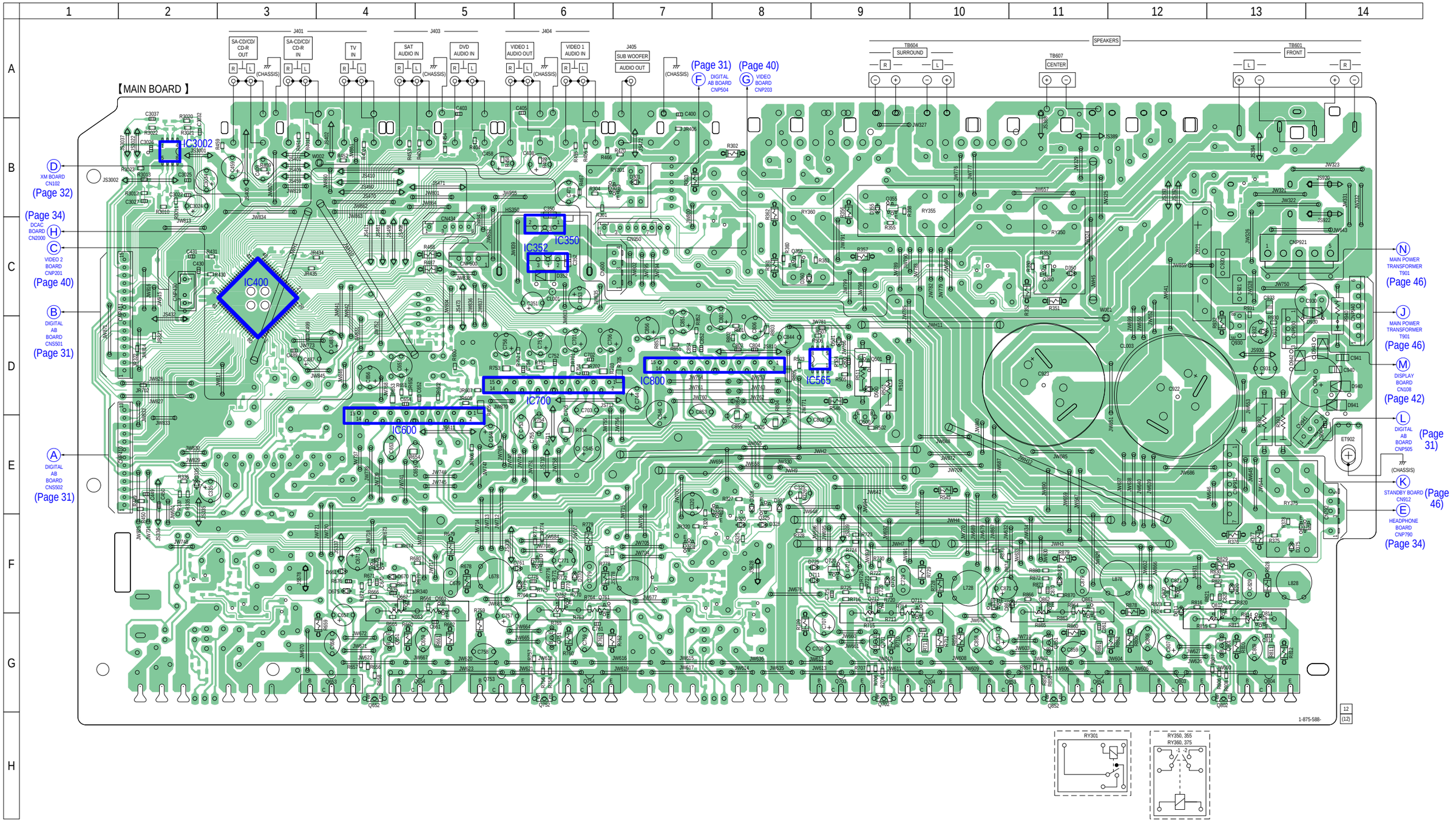
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

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

- **Circuit Boards Location**



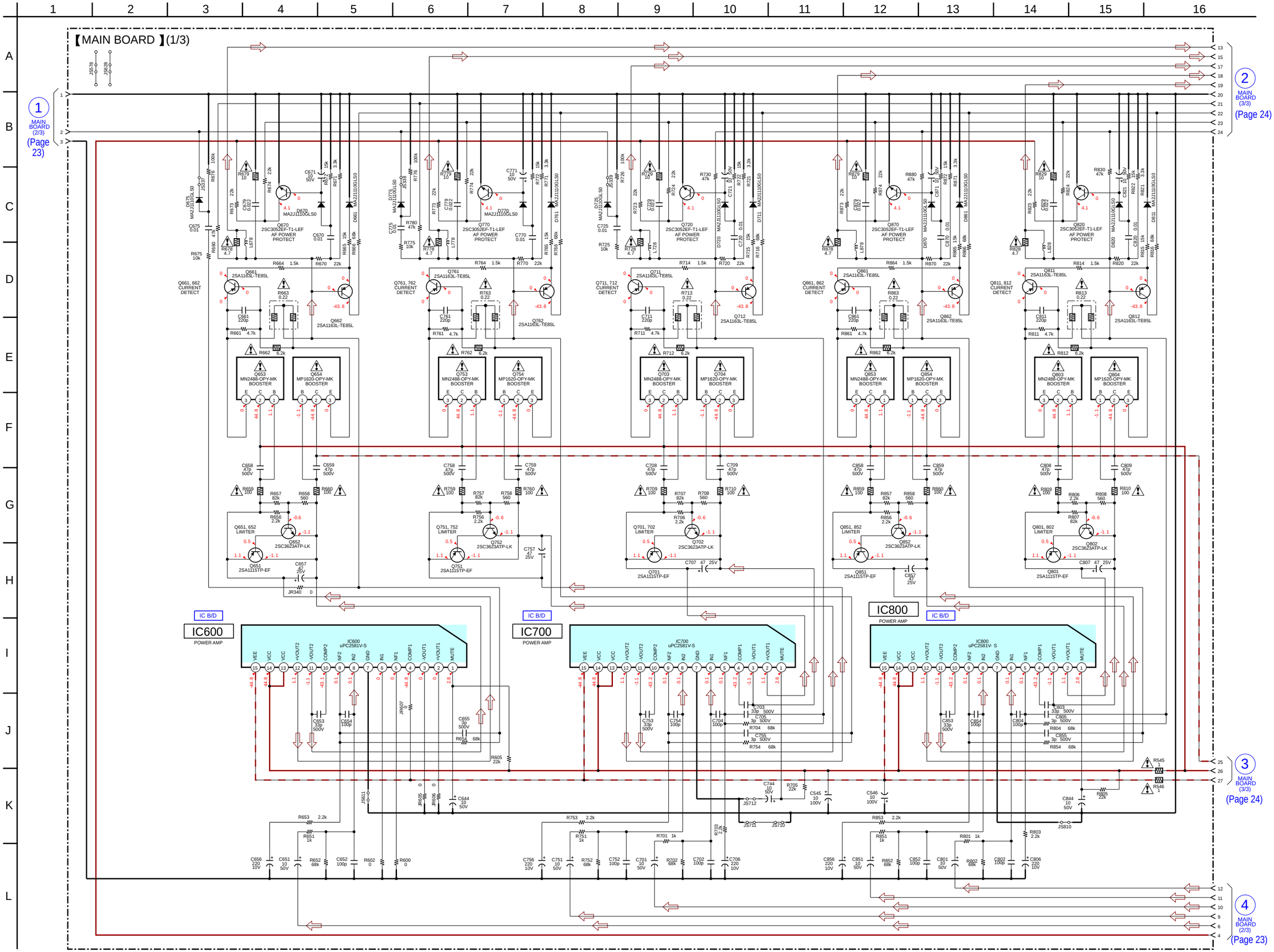
6-6. PRINTED WIRING BOARD - MAIN Board - • See page 20 for Circuit Boards Location. • : Uses unleaded solder.



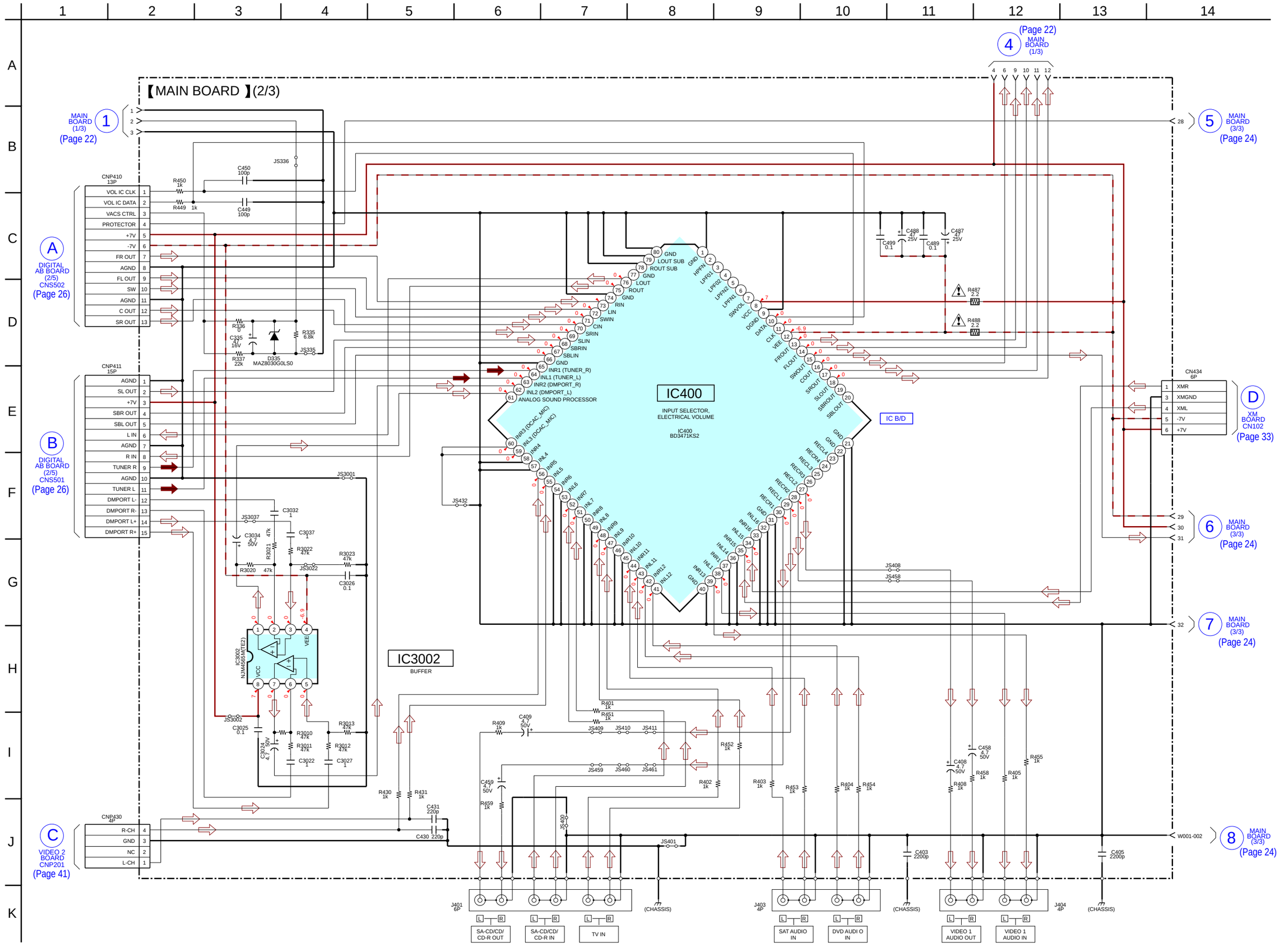
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D301	B-7	D360	C-8	D725	F-9	D930	C-14	IC400	C-3	Q321	F-7	Q652	G-4	Q704	G-10	Q762	F-6	Q851	G-11
D320	F-8	D375	F-13	D761	F-6	D931	D-13	IC565	D-9	Q325	E-8	Q653	G-4	Q711	F-10	Q770	F-6	Q852	G-11
D325	F-8	D500	D-9	D770	F-6	D940	D-14	IC600	E-4	Q350	C-11	Q654	G-5	Q712	F-9	Q801	G-13	Q853	G-11
D326	E-8	D501	D-9	D775	F-6	D941	D-14	IC700	D-6	Q355	B-9	Q661	F-5	Q720	F-9	Q802	G-13	Q854	G-11
D327	E-8	D661	F-4	D811	F-12	D942	D-13	IC800	D-7	Q360	C-8	Q662	F-4	Q751	G-6	Q803	G-12	Q861	F-11
D335	E-2	D670	F-4	D820	F-13	D943	D-14	IC3002	B-2	Q375	F-13	Q670	F-4	Q752	G-6	Q804	G-13	Q862	F-11
D350	C-11	D675	F-4	D861	F-11					Q500	E-9	Q701	G-9	Q753	G-5	Q811	G-13	Q870	F-10
D352	C-6	D711	F-9	D870	F-11	IC350	C-6	Q301	B-7	Q501	D-9	Q702	G-9	Q754	G-6	Q812	G-13	Q930	D-13
D355	B-9	D720	F-9	D921	C-12	IC352	C-6	Q320	E-8	Q651	G-4	Q703	G-9	Q761	F-6	Q820	F-12		

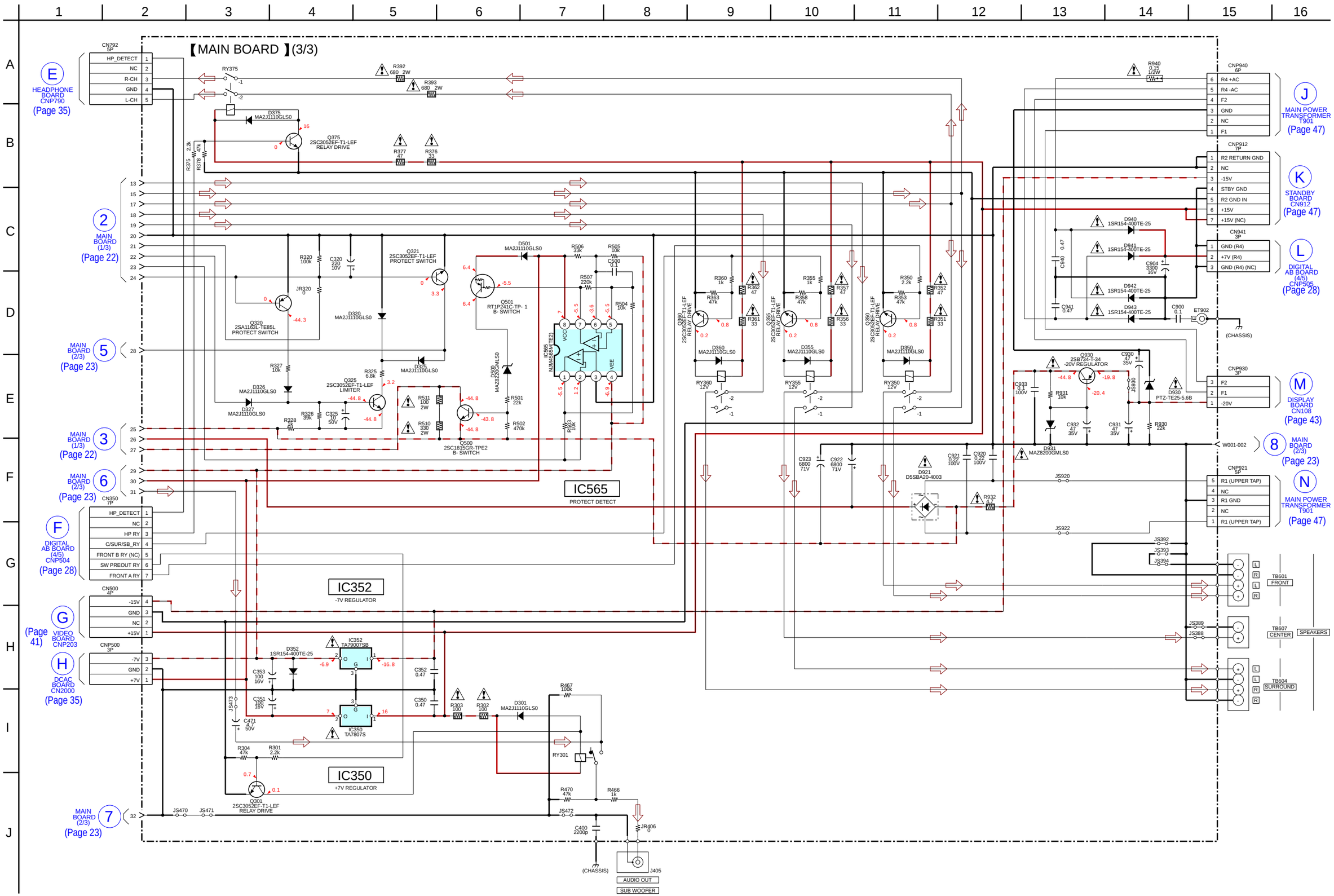
6-7. SCHEMATIC DIAGRAM - MAIN Board (1/3) - • See page 48 for IC Block Diagrams.



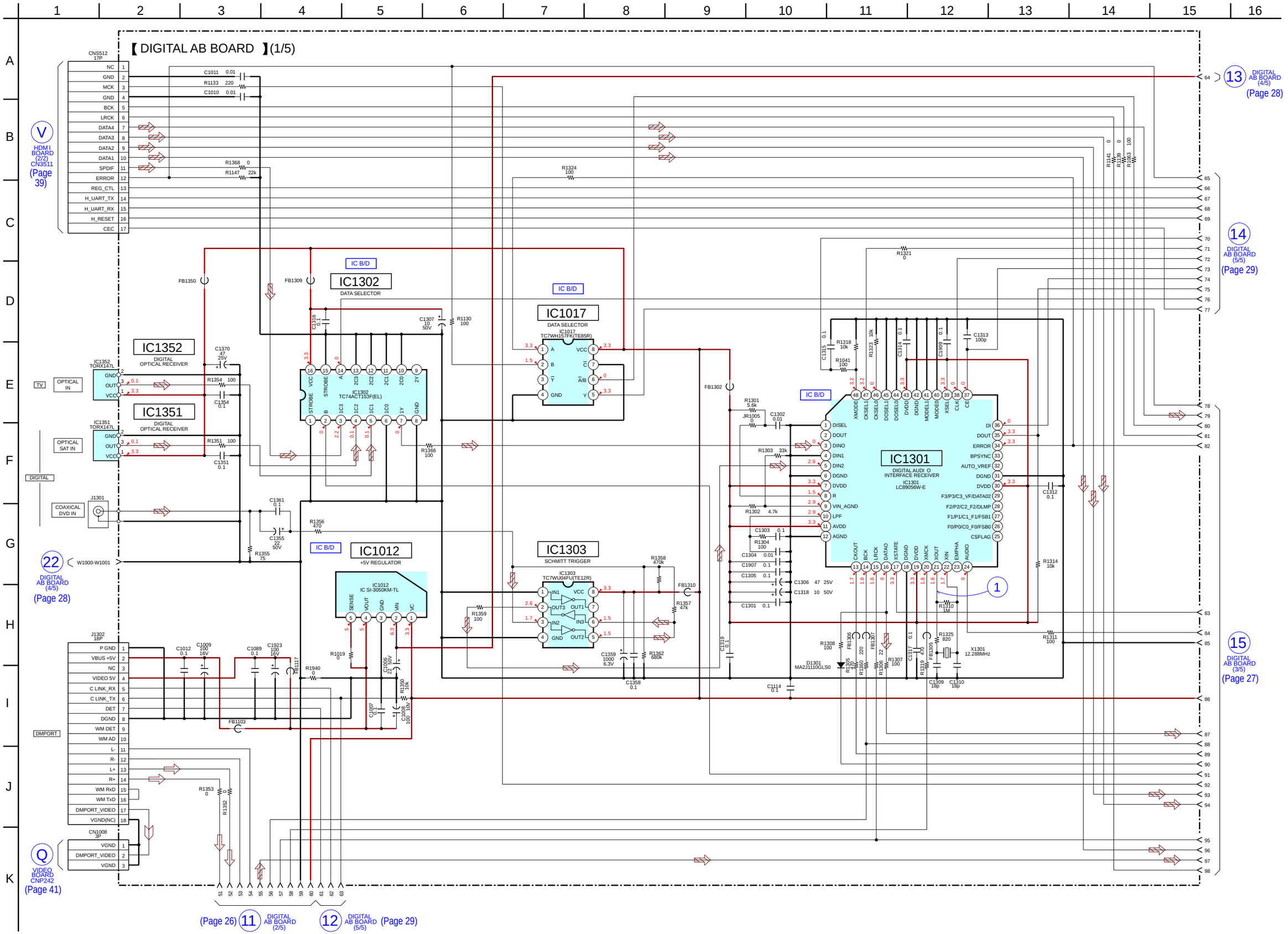
6-8. SCHEMATIC DIAGRAM - MAIN Board (2/3) - • See page 48 for IC Block Diagrams.



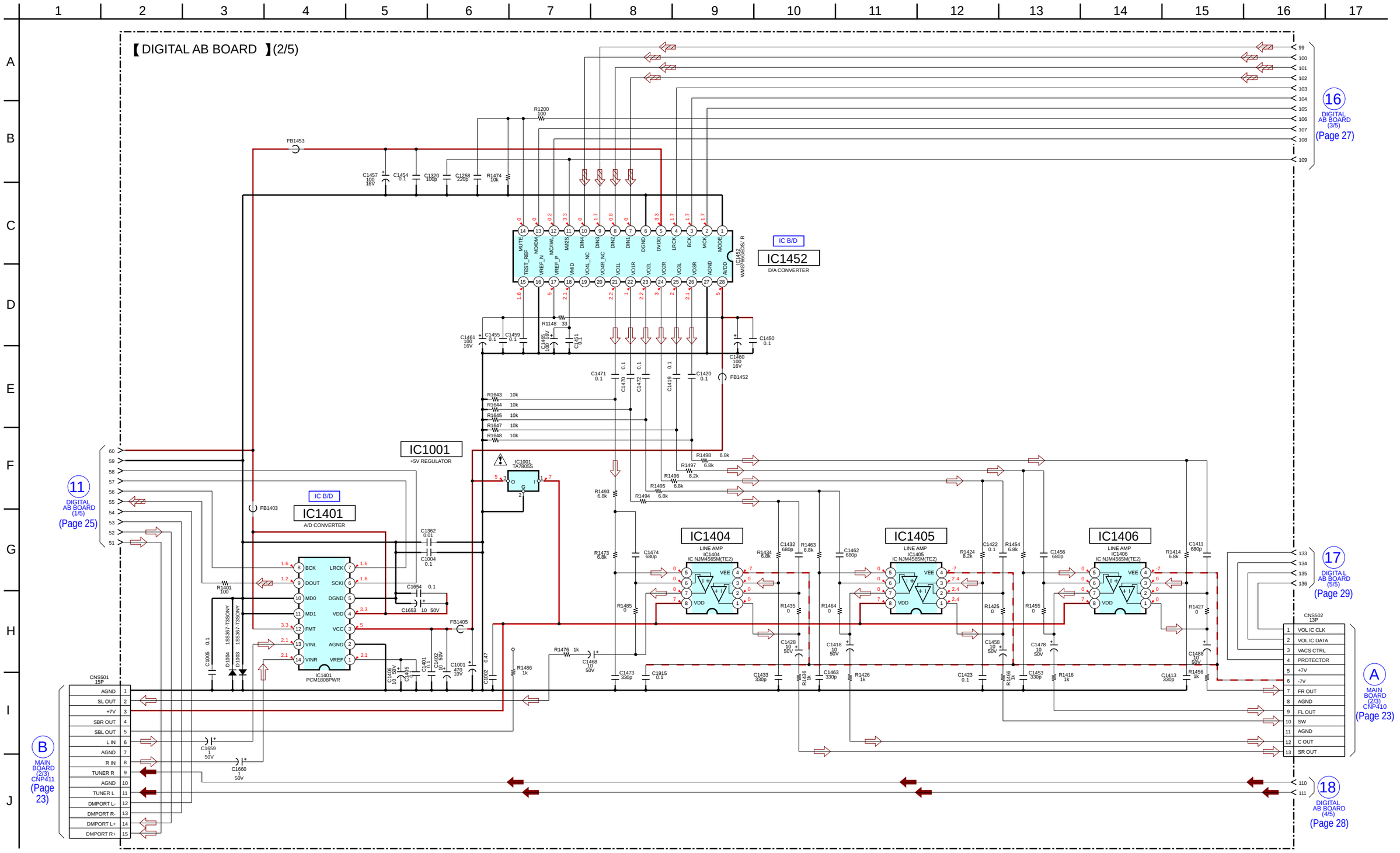
6-9. SCHEMATIC DIAGRAM - MAIN Board (3/3) -



6-10. SCHEMATIC DIAGRAM - DIGITAL AB Board (1/5) - • See page 35 for Waveforms. • See page 48 for IC Block Diagrams.

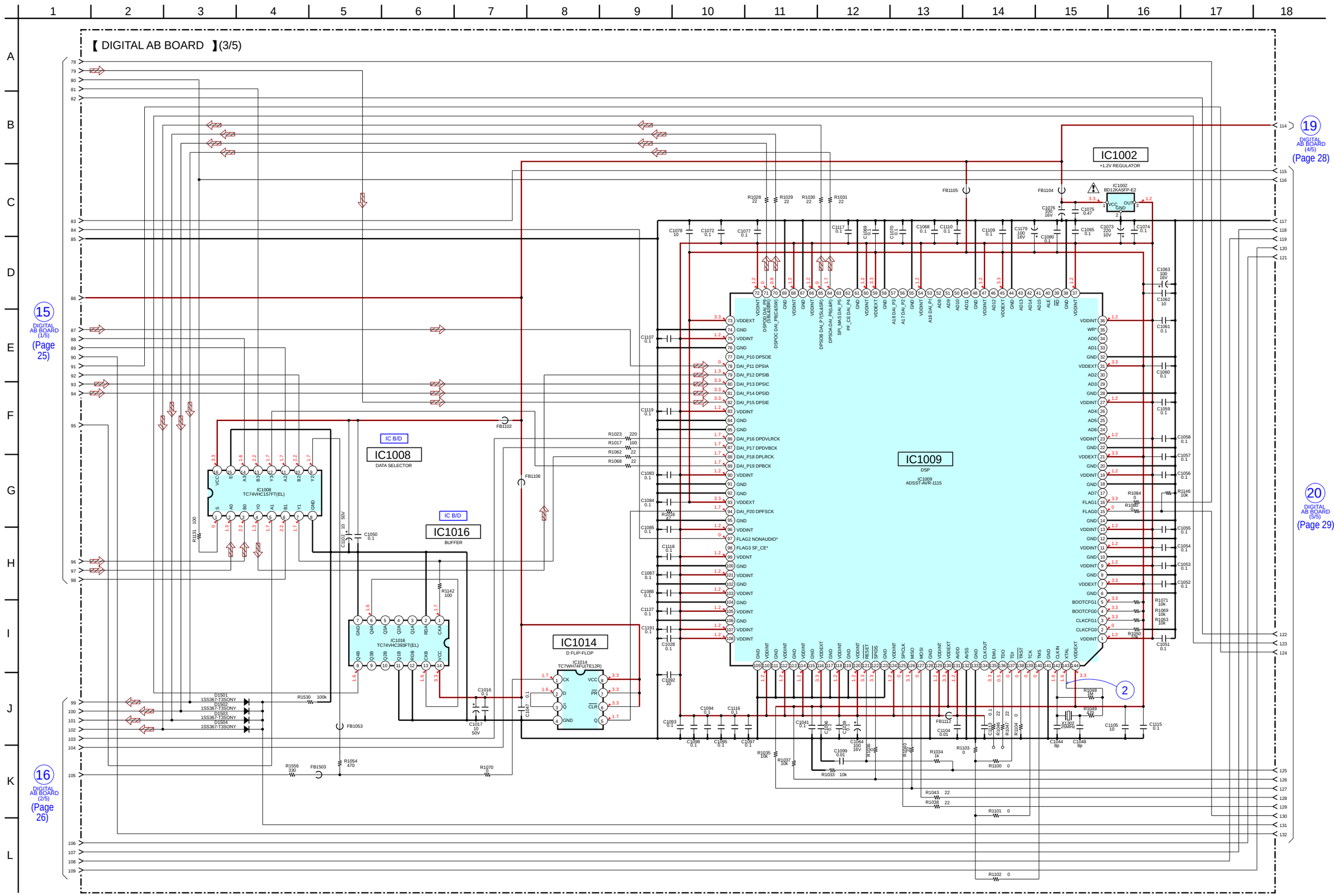


6-11. SCHEMATIC DIAGRAM - DIGITAL AB Board (2/5) - • See page 48 for IC Block Diagrams.

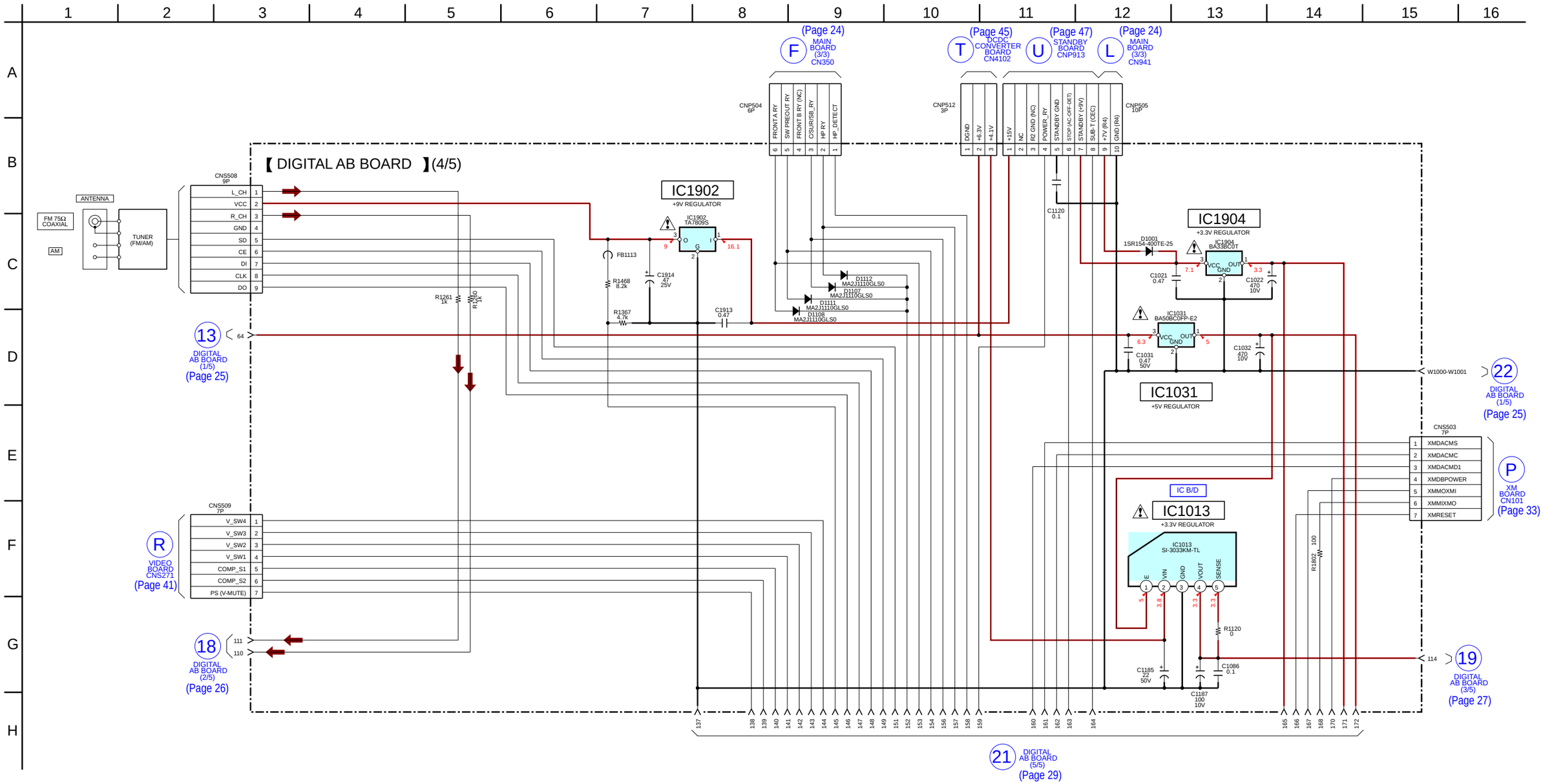


6-12. SCHEMATIC DIAGRAM - DIGITAL AB Board (3/5) -

• See page 35 for Waveforms. • See page 48 for IC Block Diagrams. • See page 55 for IC Pin Function Description.

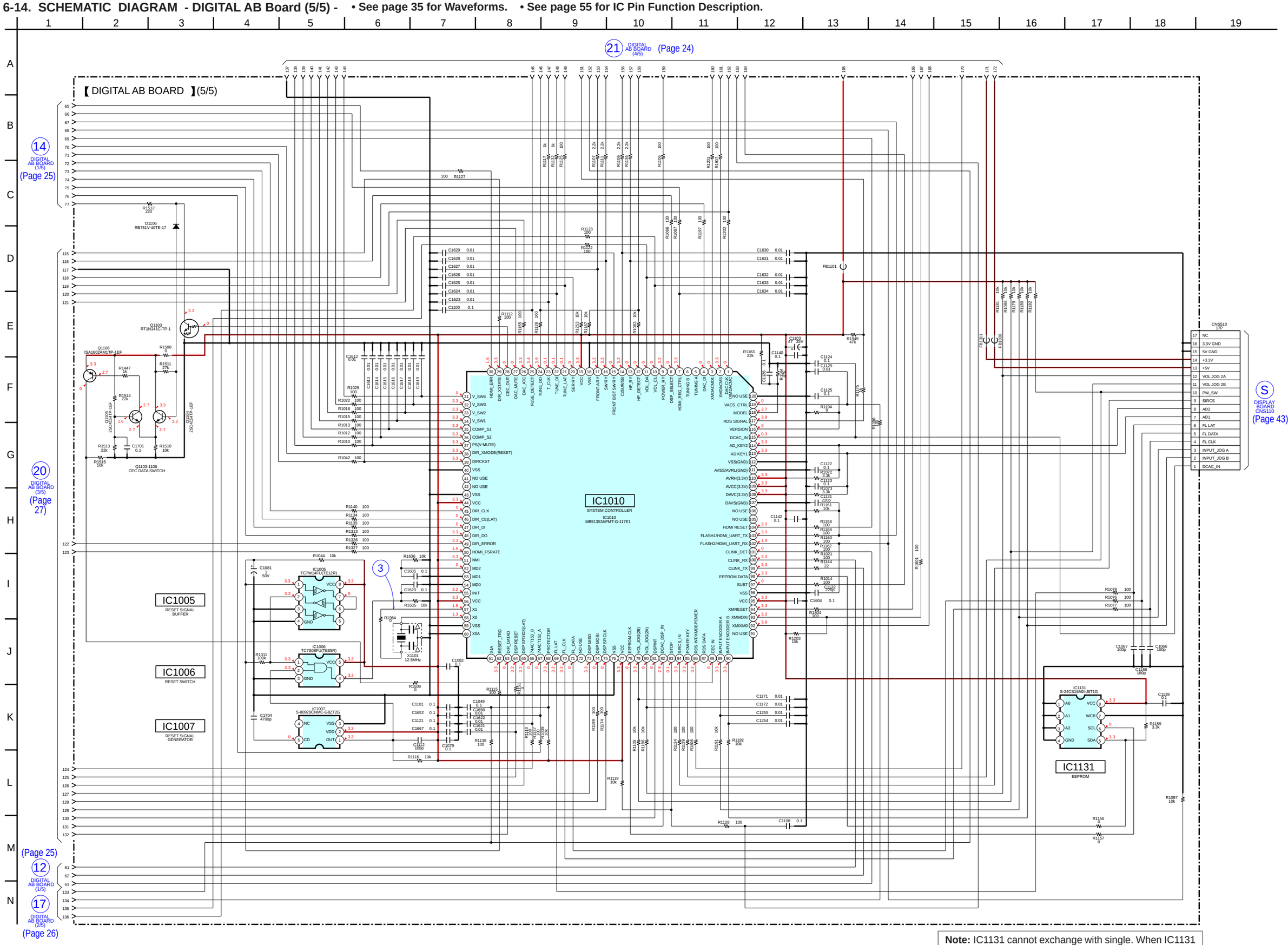


6-13. SCHEMATIC DIAGRAM - DIGITAL AB Board (4/5) - • See page 48 for IC Block Diagrams.



6-14. SCHEMATIC DIAGRAM - DIGITAL AB Board (5/5) - • See page 35 for Waveforms. • See page 55 for IC Pin Function Description.

【 DIGITAL AB BOARD 】(5/5)



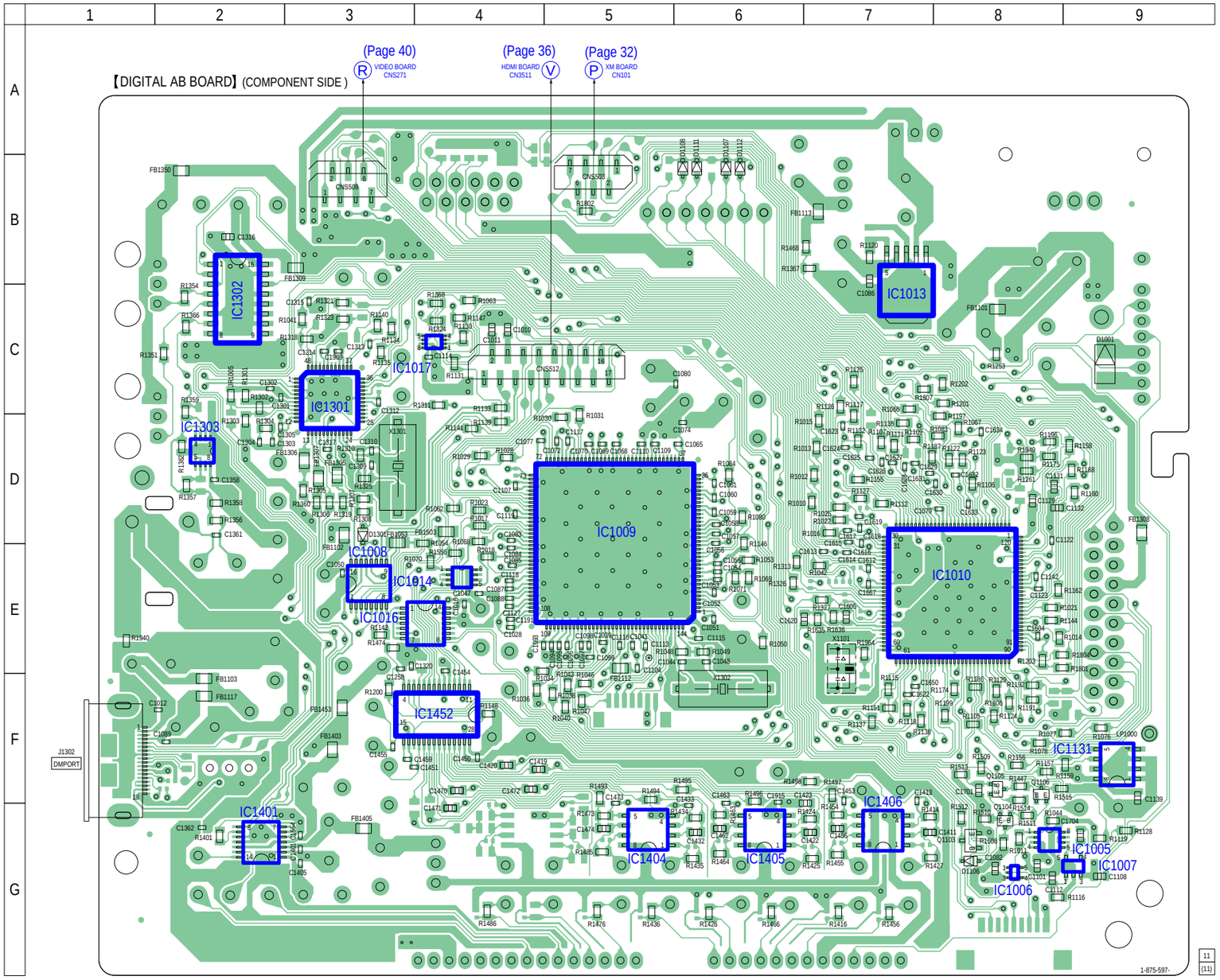
Note: IC1131 cannot exchange with single. When IC1131 is damaged, exchange the entire mounted board.

6-15. PRINTED WIRING BOARD - DIGITAL AB Board (Component Side) -

• See page 20 for Circuit Boards Location. • : Uses unleaded solder.

• **Semiconductor Location**

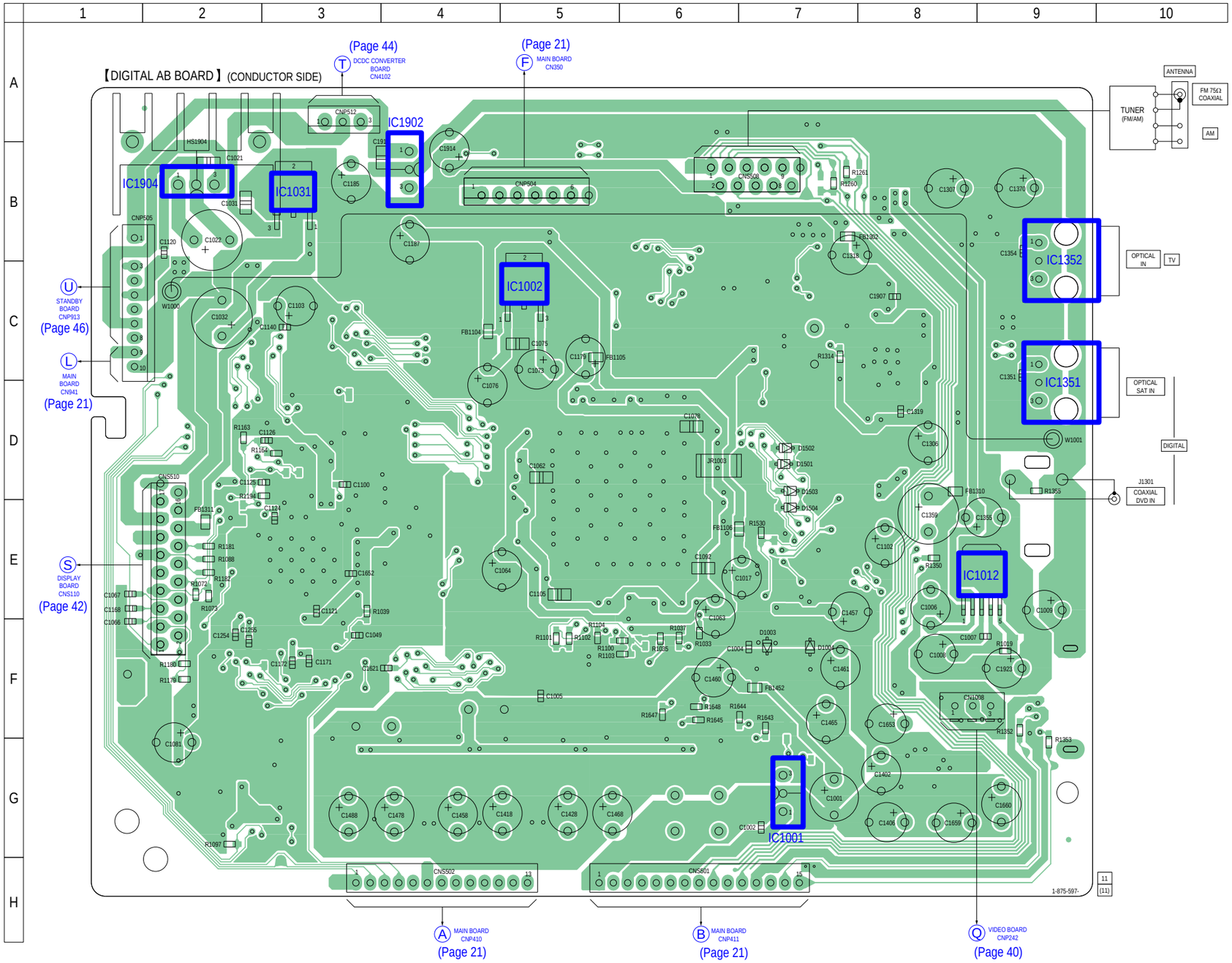
Ref. No.	Location
D1001	C-9
D1106	G-8
D1107	B-6
D1108	B-6
D1111	B-6
D1112	B-6
D1301	D-3
IC1005	G-8
IC1006	G-8
IC1007	G-9
IC1008	E-3
IC1009	D-5
IC1010	E-8
IC1013	C-7
IC1014	E-4
IC1016	E-4
IC1017	C-4
IC1131	F-9
IC1301	C-3
IC1302	C-2
IC1303	D-2
IC1401	G-2
IC1404	G-5
IC1405	G-6
IC1406	G-7
IC1452	F-4
Q1103	G-8
Q1104	G-8
Q1105	F-8
Q1106	F-8



Note: IC1131 cannot exchange with single. When IC1131 is damaged, exchange the entire mounted board.

6-16. PRINTED WIRING BOARD - DIGITAL AB Board (Conductor Side) -

• See page 20 for Circuit Boards Location. • : Uses unleaded solder.



- **Semiconductor Location**

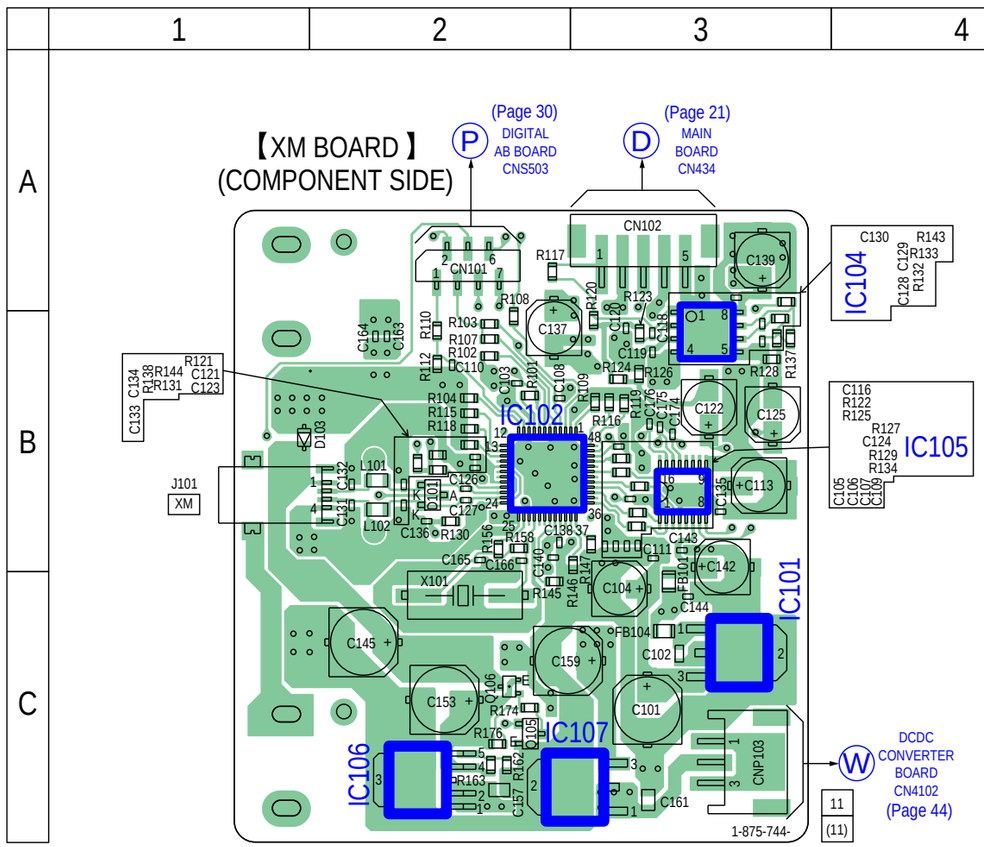
Ref. No.	Location
D1003	F-7
D1004	F-7
D1501	D-7
D1502	D-7
D1503	D-7
D1504	E-7
IC1001	G-7
IC1002	C-5
IC1012	E-9
IC1031	B-3
IC1351	D-9
IC1352	B-9
IC1902	B-4
IC1904	B-2

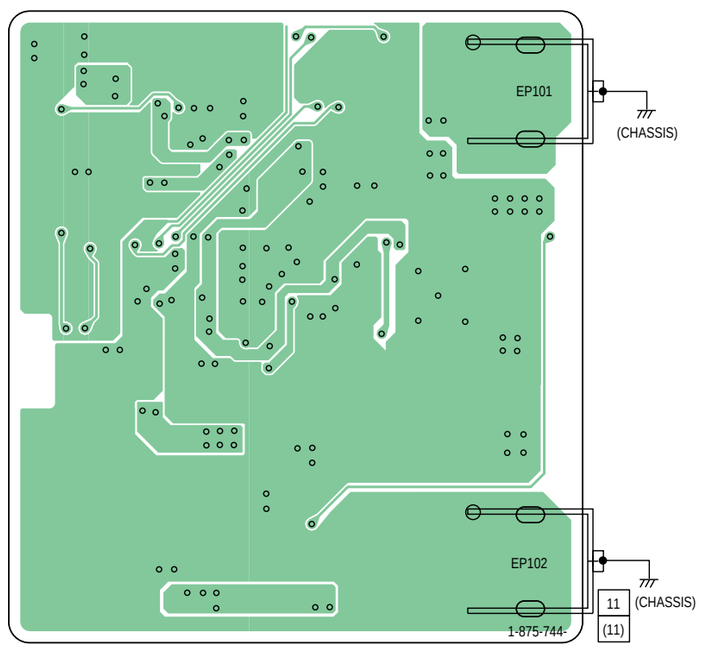
6-17. PRINTED WIRING BOARD - XM Board -

• See page 20 for Circuit Boards Location. • : Uses unleaded solder.

• **Semiconductor Location**

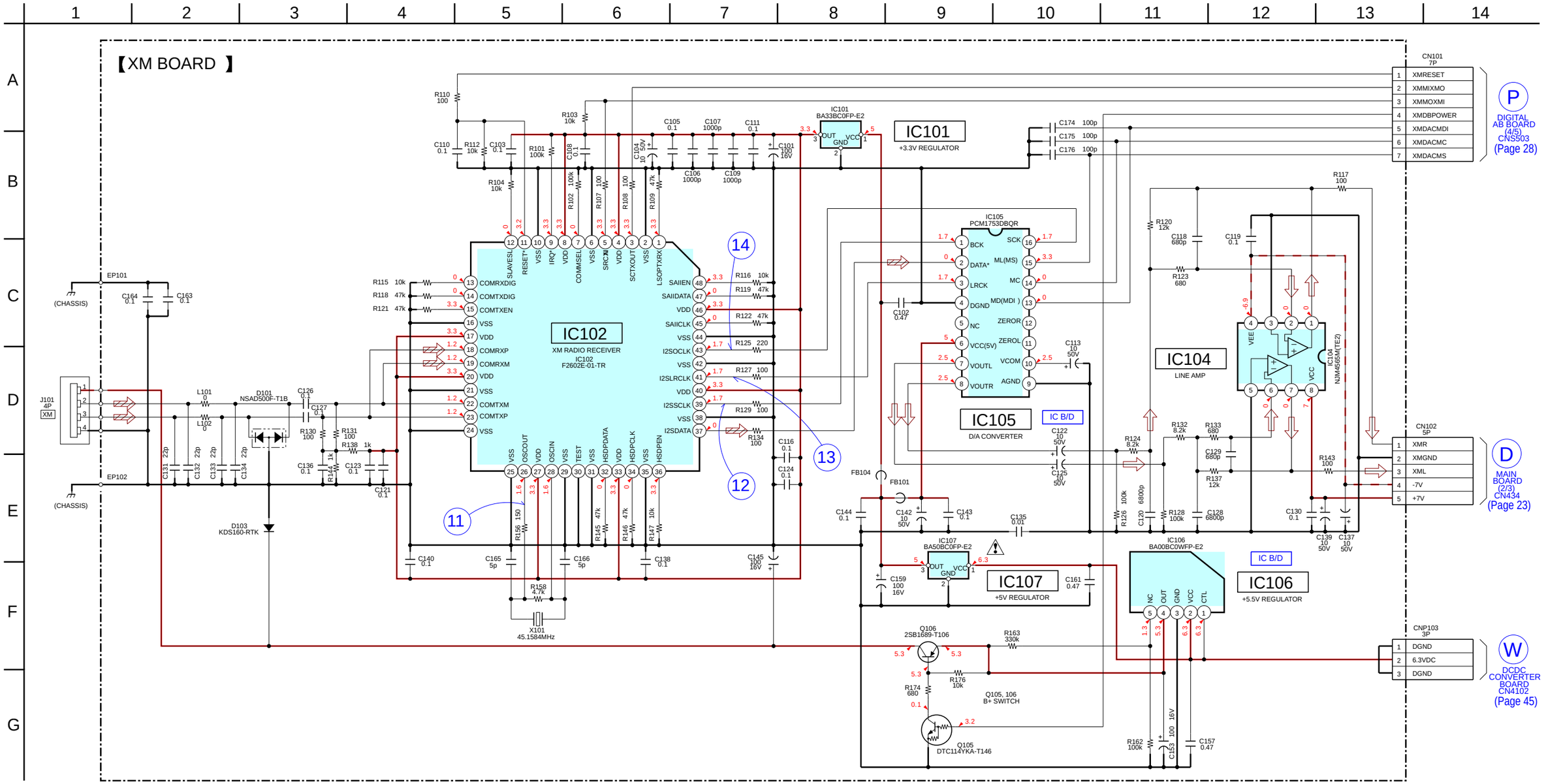
Ref. No.	Location
D101	B-2
D103	B-1
IC101	C-3
IC102	B-2
IC104	B-3
IC105	B-3
IC106	C-2
IC107	C-3
Q105	C-2
Q106	C-2





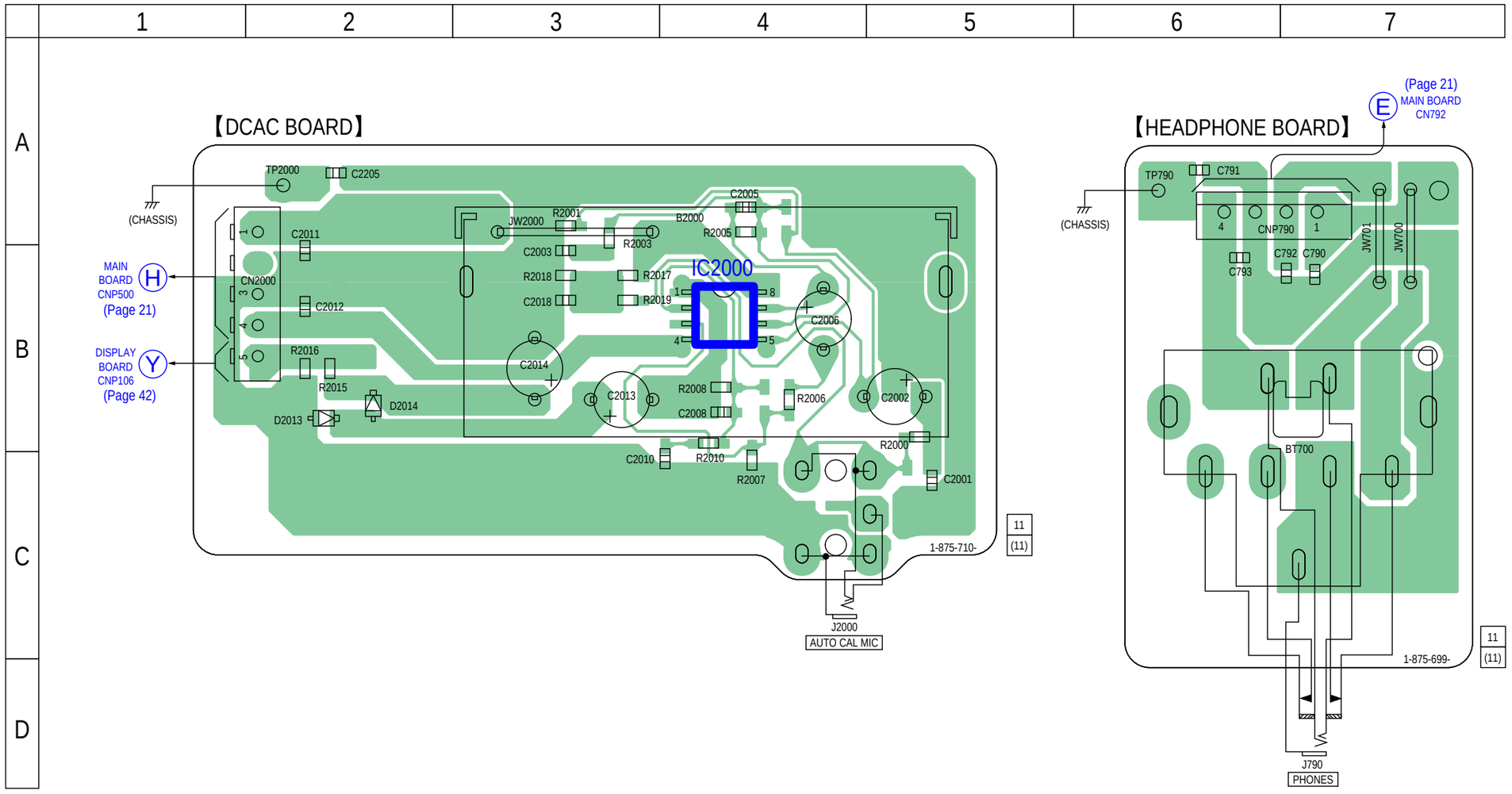
6-18. SCHEMATIC DIAGRAM - XM Board -

• See page 35 for Waveforms. • See page 48 for IC Block Diagrams. • See page 55 for IC Pin Function Description.

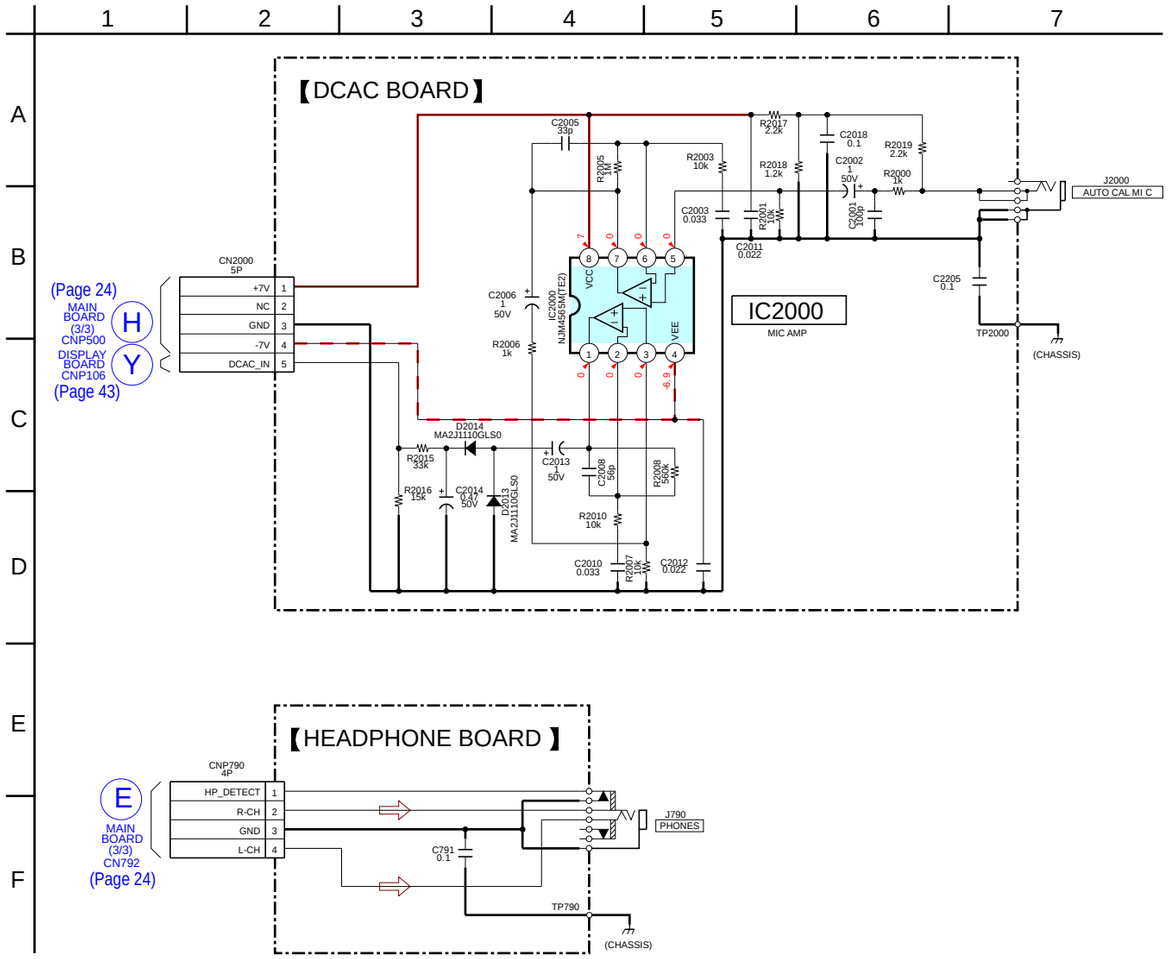


6-19. PRINTED WIRING BOARDS - MIC/HEADPHONE Section -

• See page 20 for Circuit Boards Location. • : Uses unleaded solder.



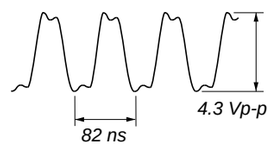
6-20. SCHEMATIC DIAGRAM - MIC/HEADPHONE Section -



• Waveforms

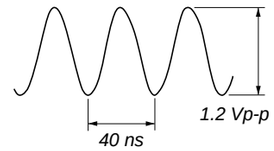
– DIGITAL AB Board –

① IC1301 ㉑ (XOUT)



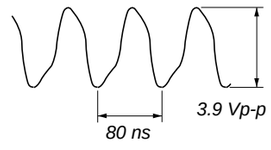
2 V/DIV, 50 ns/DIV

② IC1009 ⑱ (XTAL)



500 mV/DIV, 20 ns/DIV

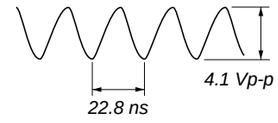
③ IC1010 ㊼ (X1)



2 V/DIV, 50 ns/DIV

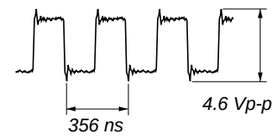
– XM Board –

⑪ IC102 ㉖ (OSCOUT)



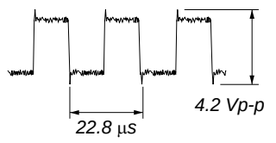
2 V/DIV, 10 ns/DIV

⑫ IC102 ㊴ (I2SSCLK)



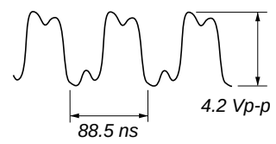
2 V/DIV, 200 ns/DIV

⑬ IC102 ㊶ (I2SLRCLK)



2 V/DIV, 10 µs/DIV

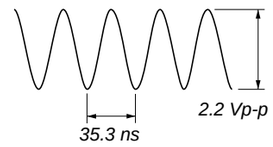
⑭ IC102 ㊸ (I2SOCLK)



2 V/DIV, 50 ns/DIV

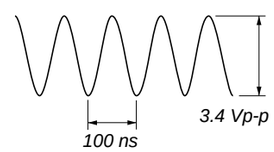
– HDMI Board –

㉑ IC3511 ㉞ (XTALOUT)



1 V/DIV, 50 ns/DIV

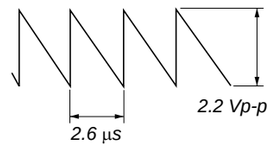
㉒ IC3519 ⑪ (XOUT)



1 V/DIV, 50 ns/DIV

– DISPLAY Board –

㉛ IC100 ⑤ (OSC)



1 V/DIV, 2 µs/DIV

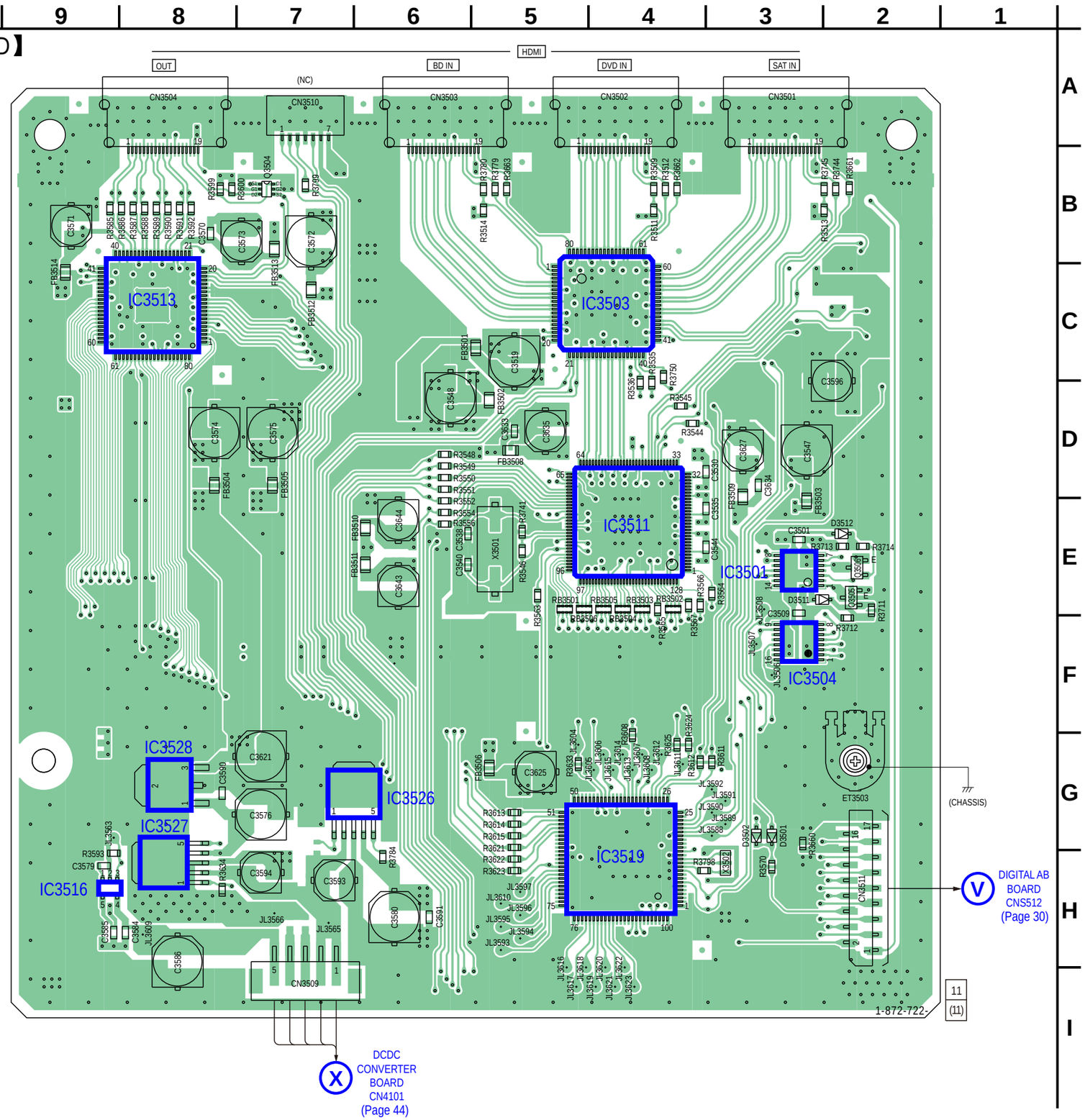
6-21. PRINTED WIRING BOARD - HDMI Board (Side A) -

• See page 20 for Circuit Boards Location. • : Uses unleaded solder.

• **Semiconductor Location**

Ref. No.	Location
D3501	G-3
D3502	G-3
D3511	E-3
D3512	E-2
IC3501	E-3
IC3503	C-4
IC3504	F-3
IC3511	E-4
IC3513	C-8
IC3516	H-9
IC3519	H-4
IC3526	G-6
IC3527	H-8
IC3528	G-8
Q3504	B-7
Q3505	E-2
Q3506	E-2

【HDMI BOARD】
(SIDE A)

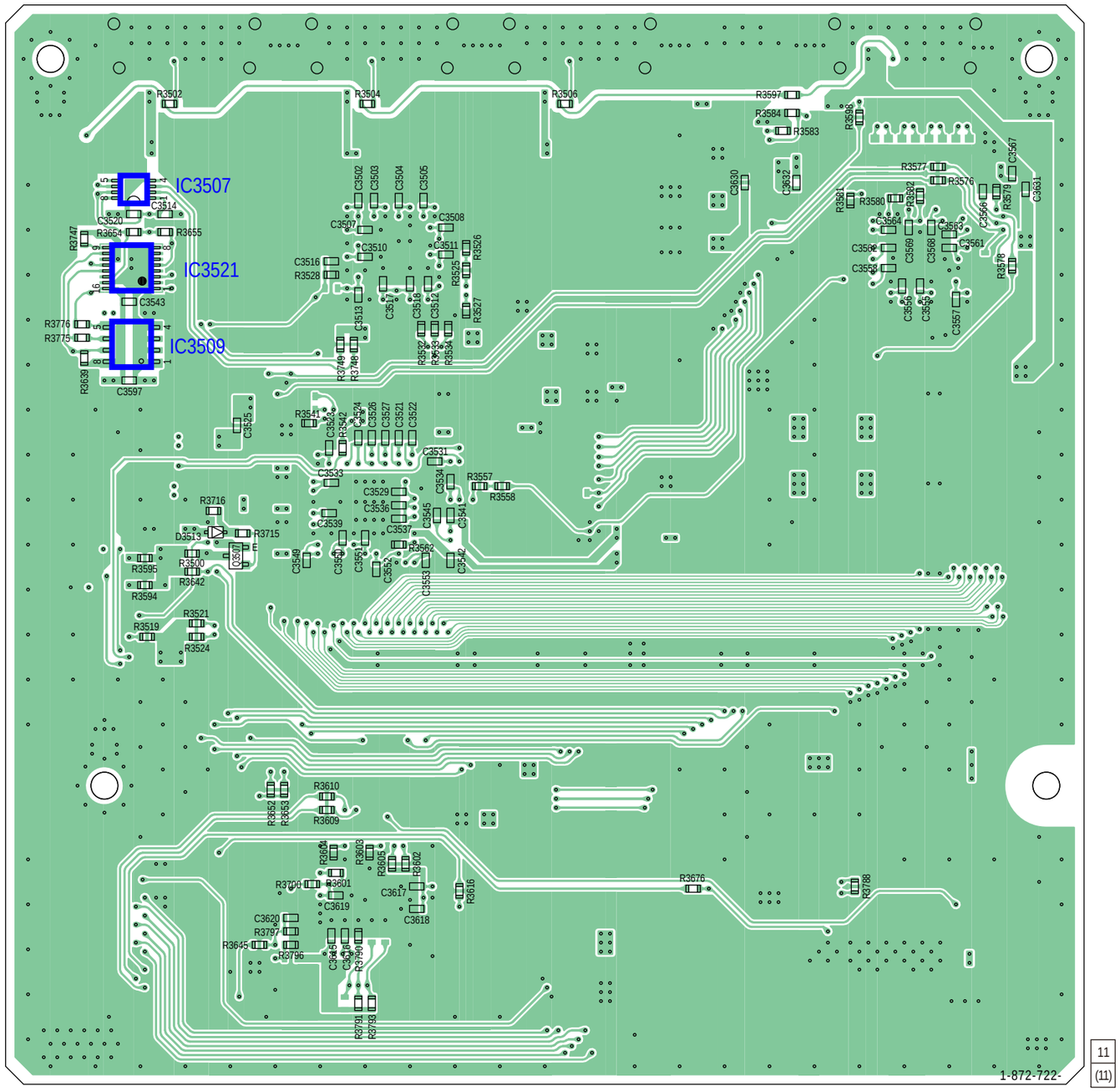


Note: IC3511 and IC3513 cannot exchange with single. When IC3511 and IC3513 are damaged, exchange the entire mounted board.

6-22. PRINTED WIRING BOARD - HDMI Board (Side B) -

• See page 20 for Circuit Boards Location. • : Uses unleaded solder.

【 HDMI BOARD 】(SIDE B)

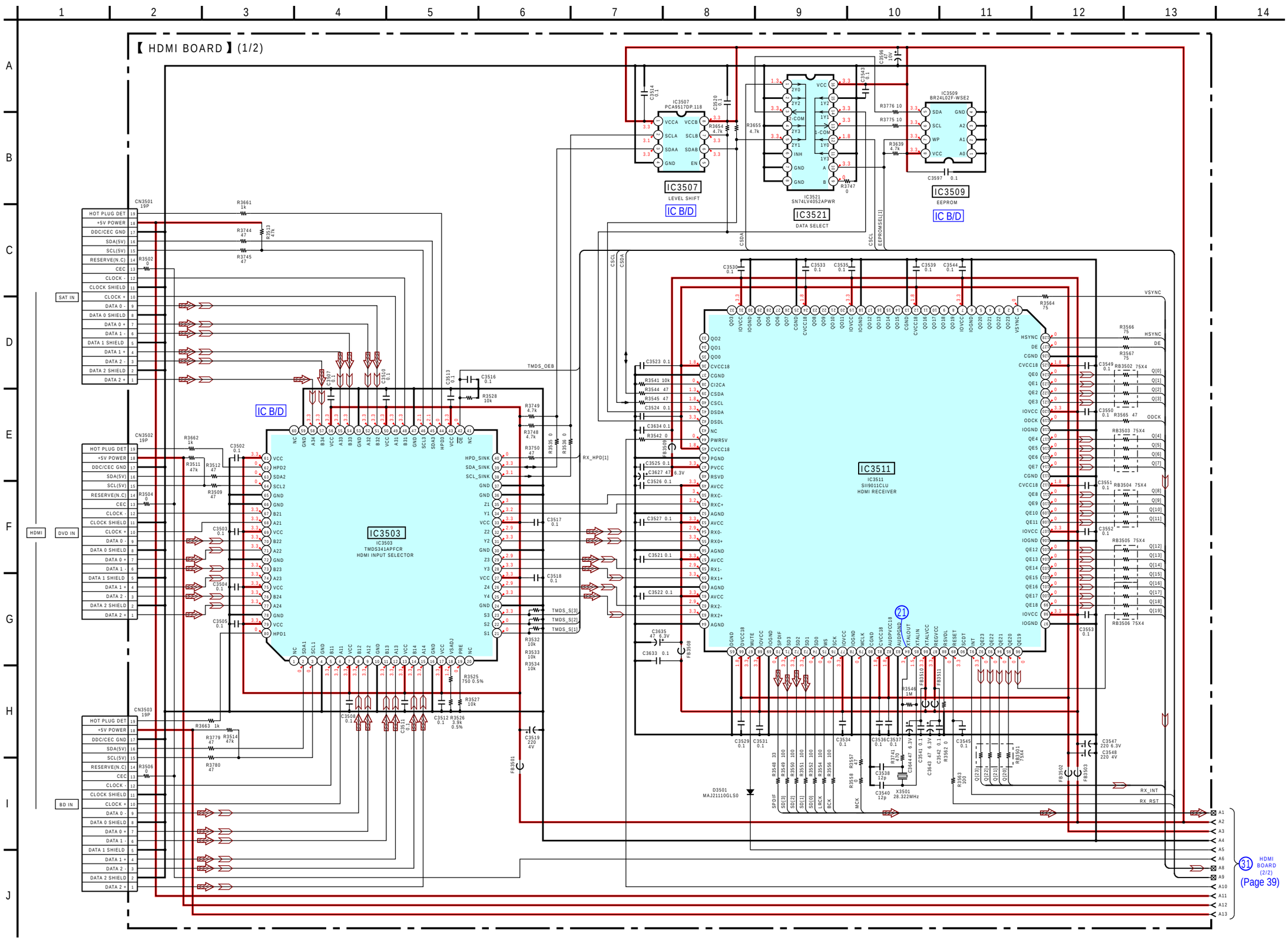


• Semiconductor Location

Ref. No.	Location
D3513	E-3
IC3507	B-2
IC3509	C-2
IC3521	C-2
Q3507	E-3

6-23. SCHEMATIC DIAGRAM - HDMI Board (1/2) -

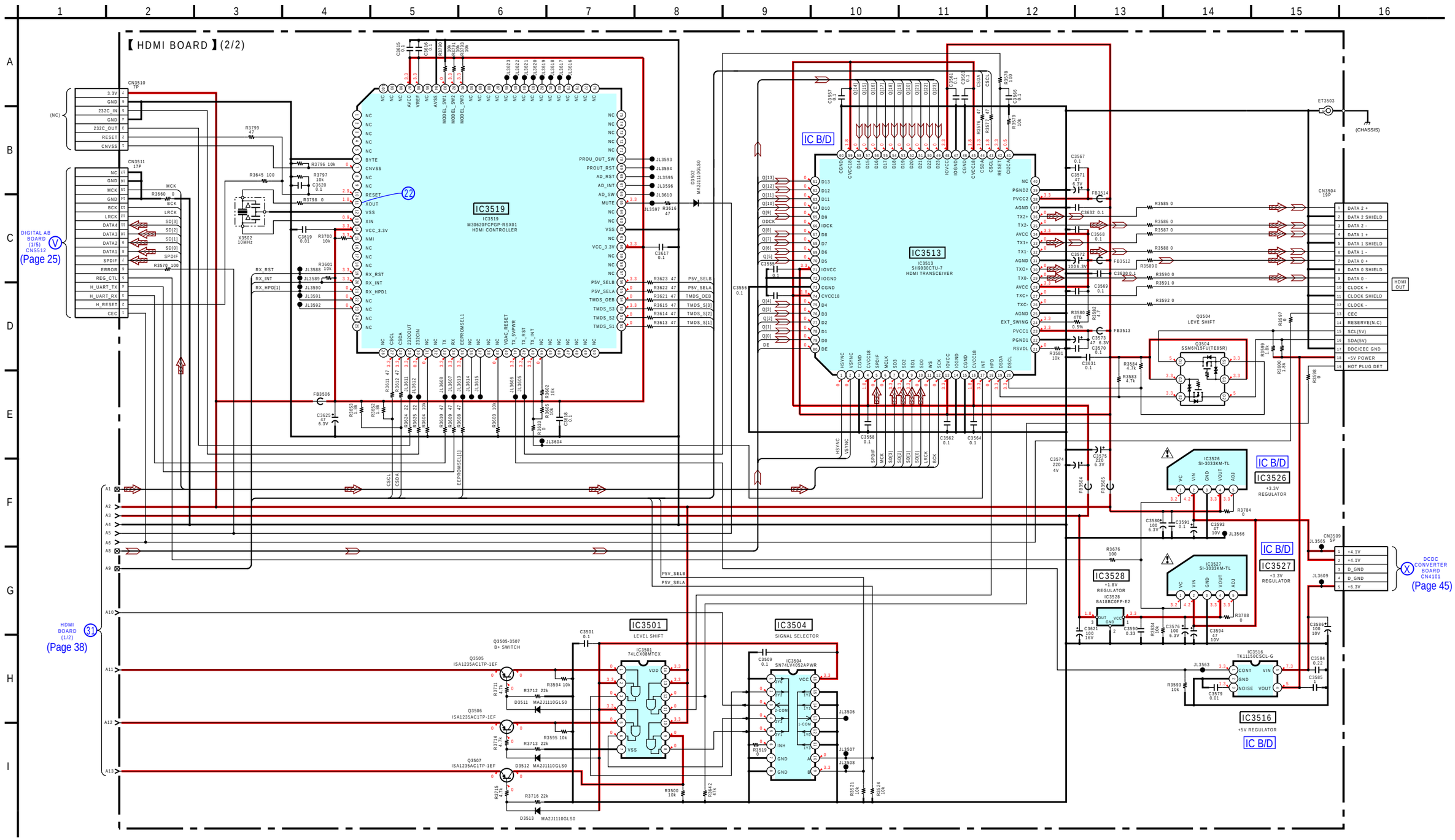
• See page 35 for Waveforms. • See page 48 for IC Block Diagrams. • See page 55 for IC Pin Function Description.



Note: IC3511 cannot exchange with single. When IC3511 is damaged, exchange the entire mounted board.

6-24. SCHEMATIC DIAGRAM - HDMI Board (2/2) -

• See page 35 for Waveforms. • See page 48 for IC Block Diagrams. • See page 55 for IC Pin Function Description.



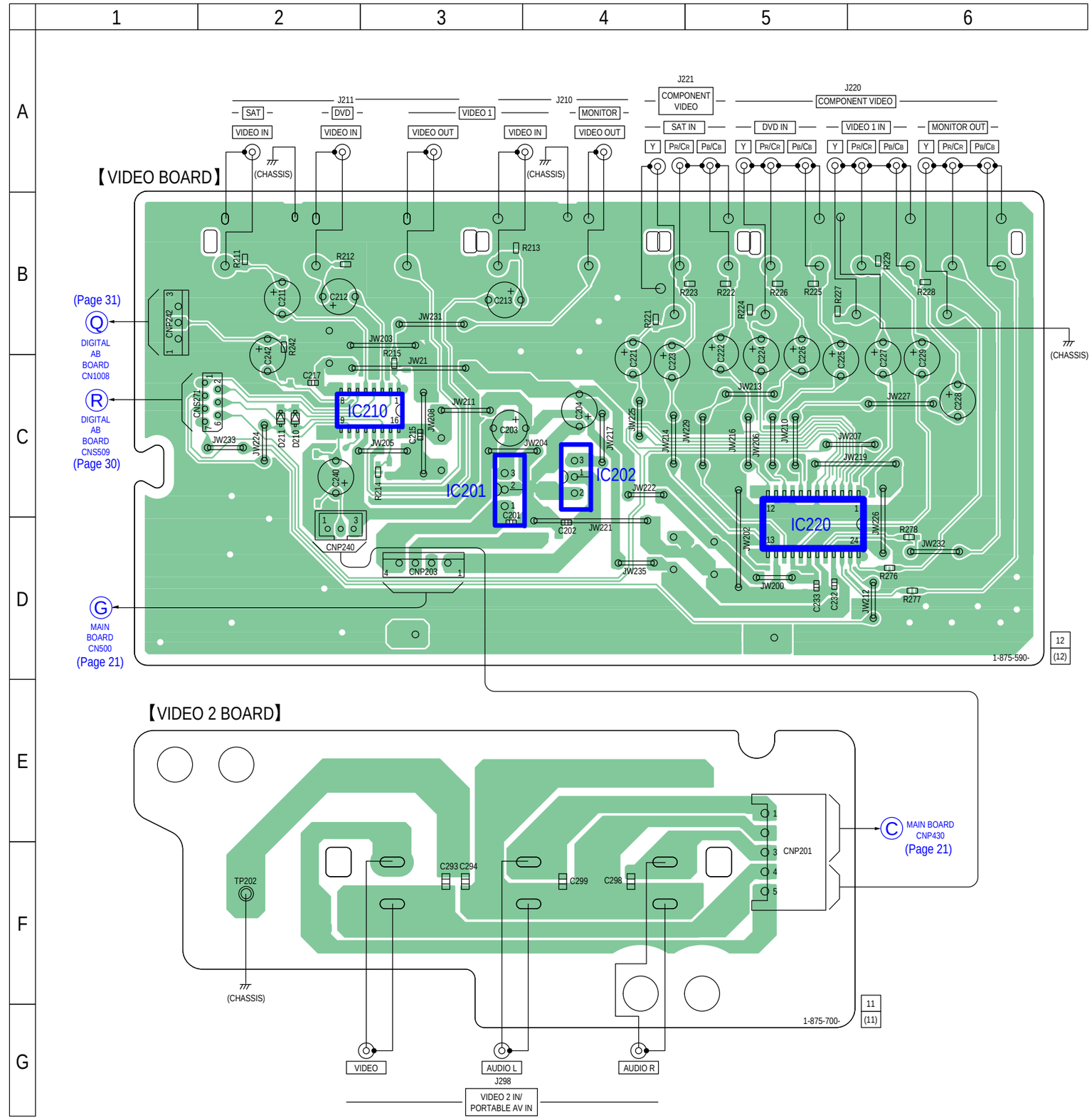
Note: IC3513 cannot exchange with single. When IC3513 is damaged, exchange the entire mounted board.

6-25. PRINTED WIRING BOARDS - VIDEO Section -

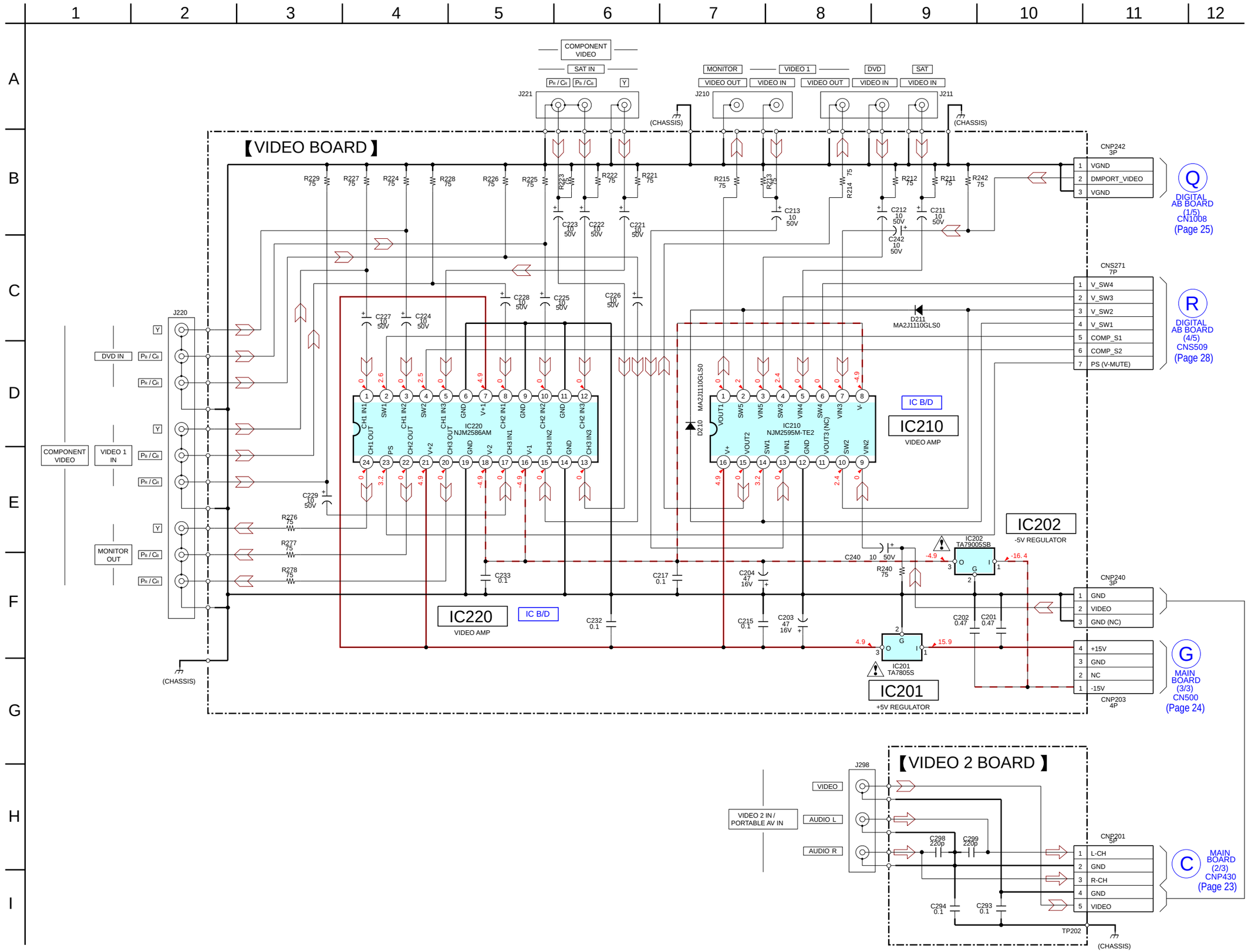
• See page 20 for Circuit Boards Location. • : Uses unleaded solder.

- **Semiconductor Location**

Ref. No.	Location
D210	C-2
D211	C-2
IC201	C-3
IC202	C-4
IC210	C-3
IC220	D-5

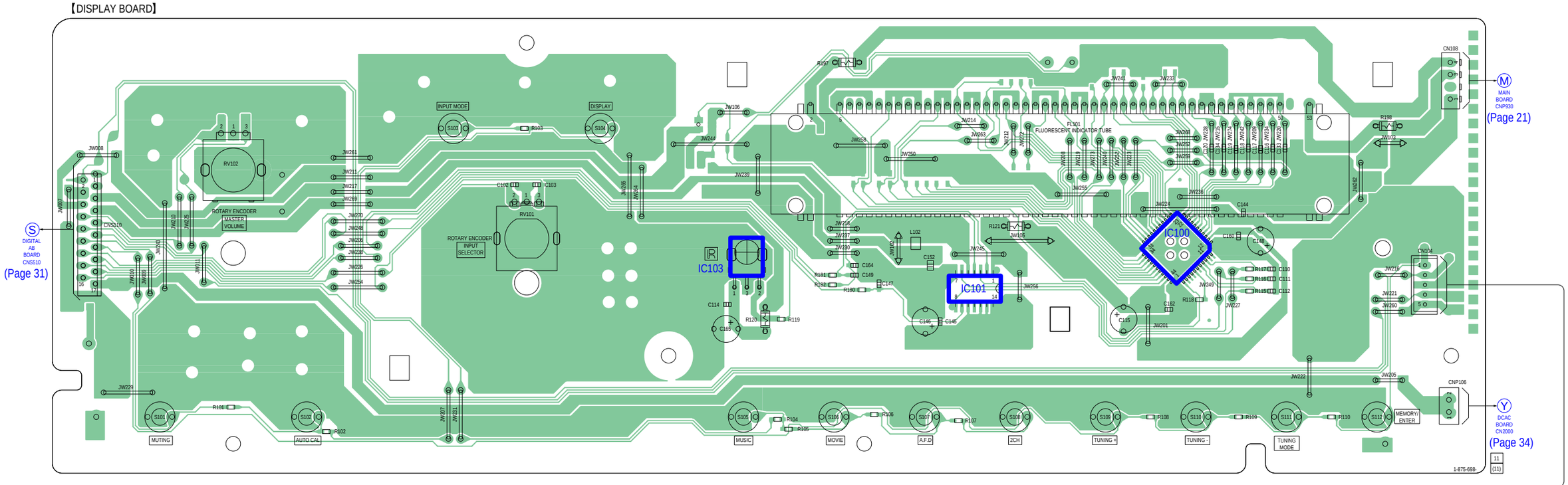


6-26. SCHEMATIC DIAGRAM - VIDEO Section - • See page 35 for Waveforms. • See page 48 for IC Block Diagrams.

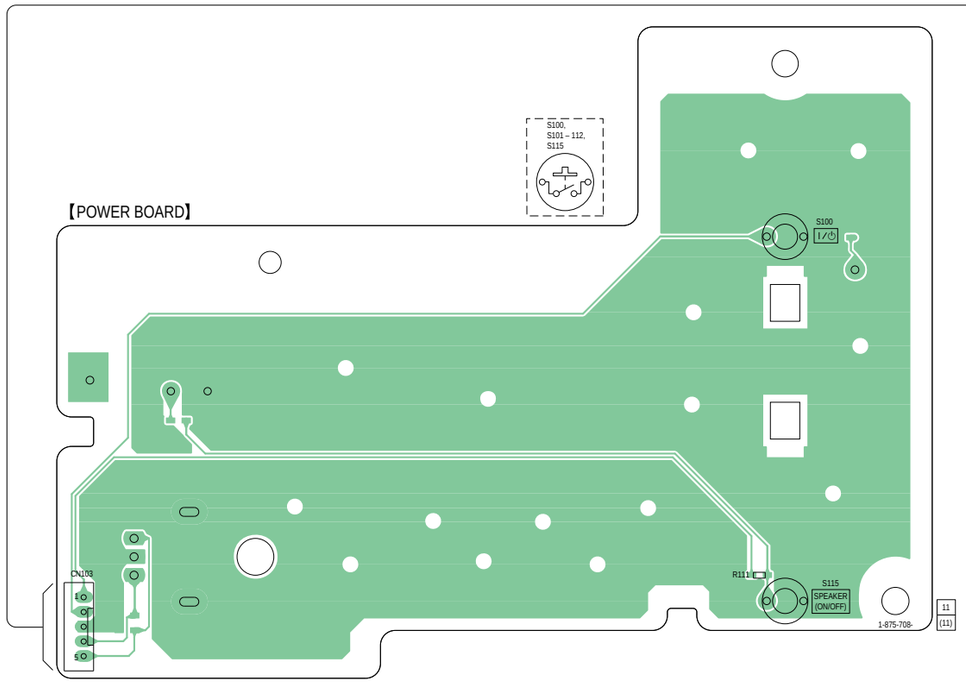


6-27. PRINTED WIRING BOARDS - PANEL Section - • See page 20 for Circuit Boards Location. • : Uses unleaded solder.

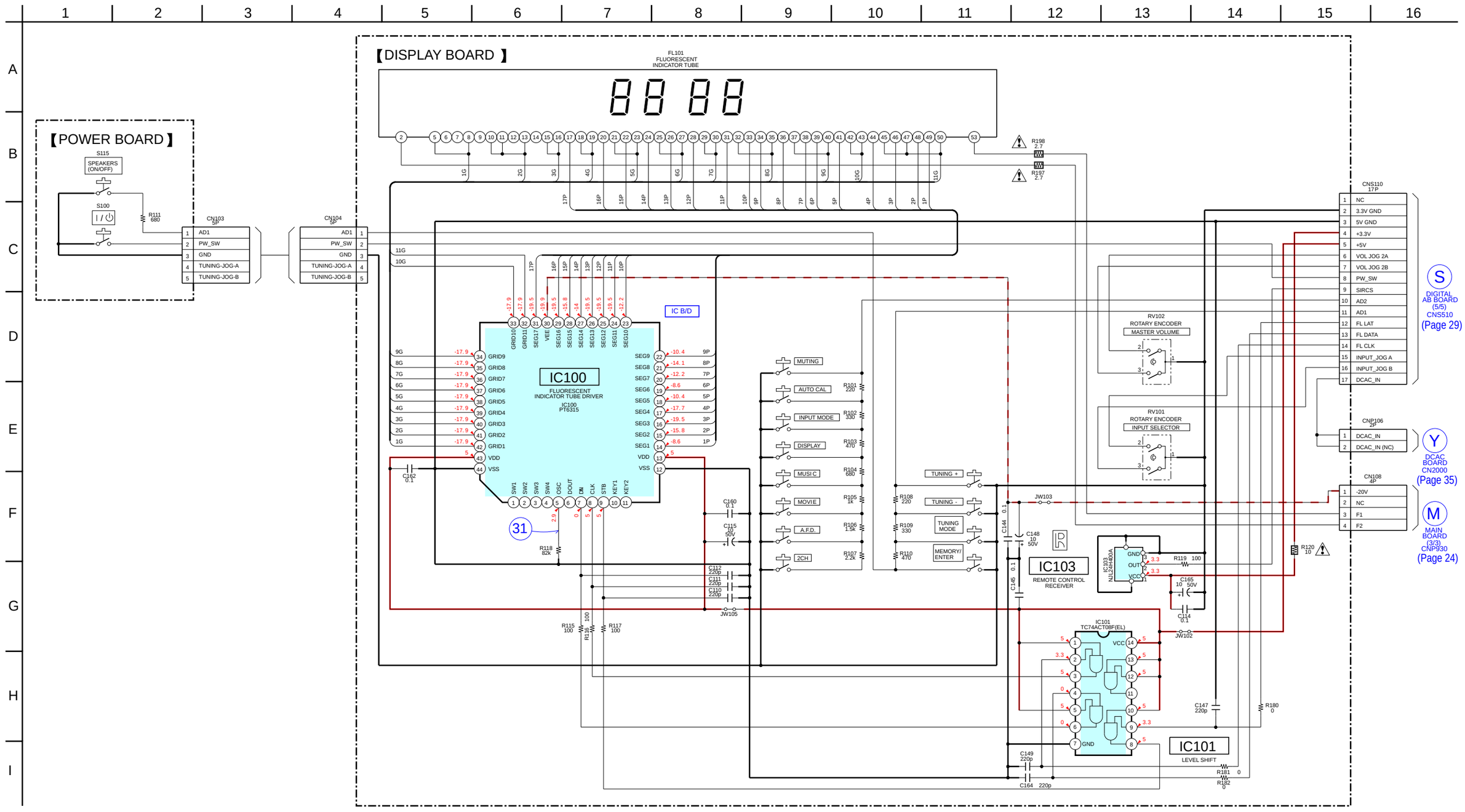
【DISPLAY BOARD】



【POWER BOARD】

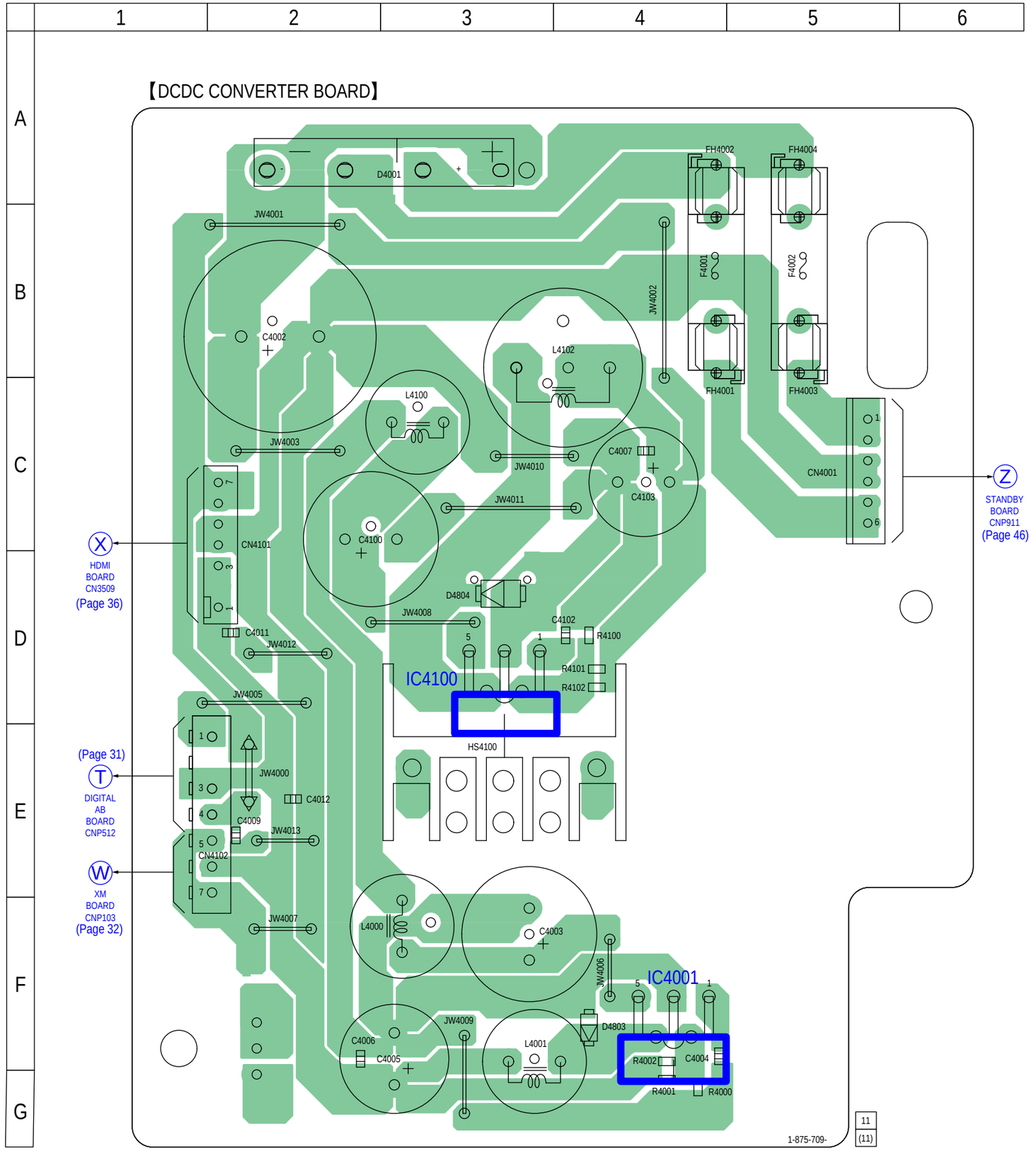


6-28. SCHEMATIC DIAGRAM - PANEL Section - • See page 48 for IC Block Diagrams.



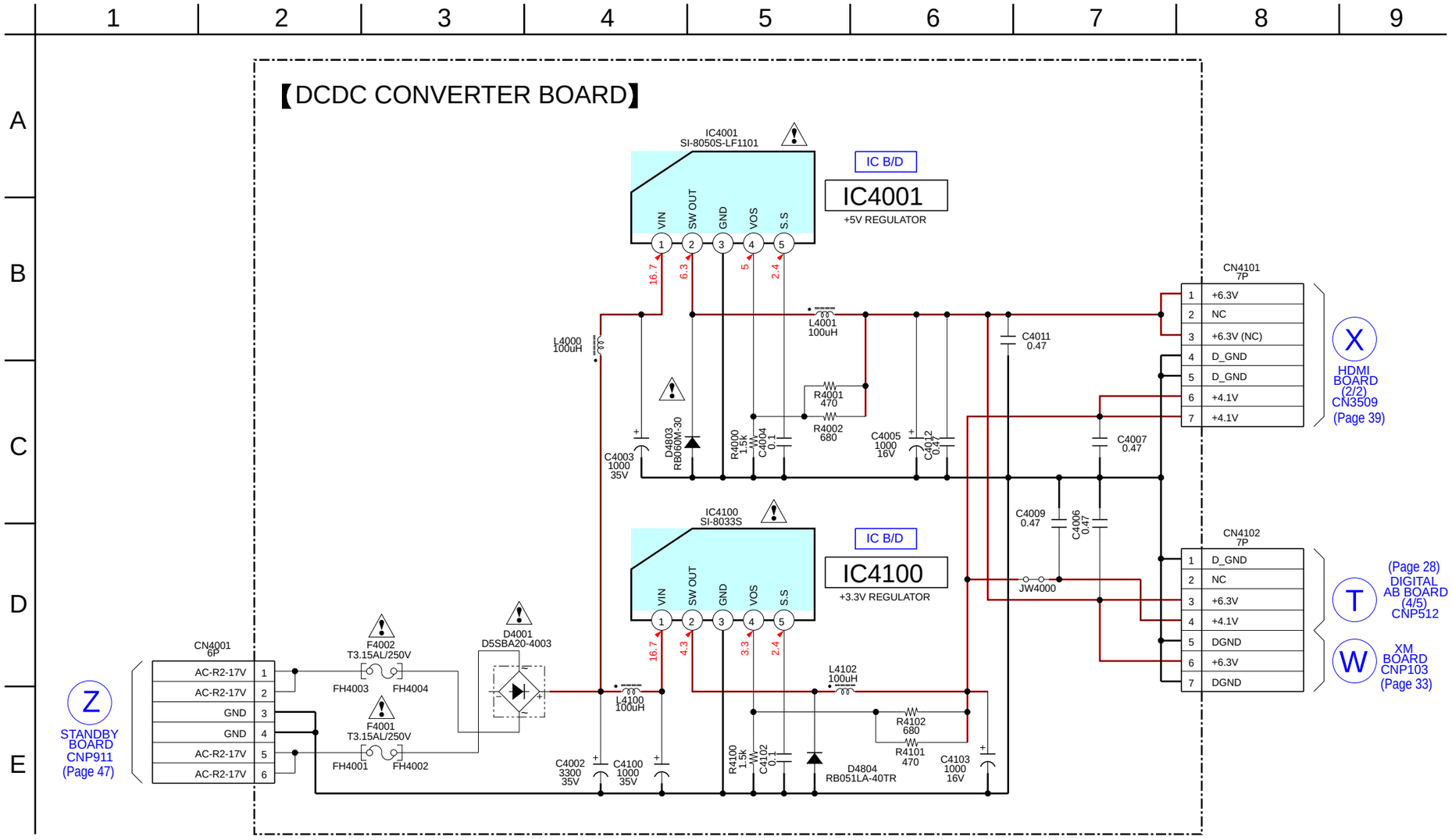
6-29. PRINTED WIRING BOARD - DCDC CONVERTER Board -

• See page 20 for Circuit Boards Location. • : Uses unleaded solder.



6-30. SCHEMATIC DIAGRAM - DCDC CONVERTER Board -

• See page 48 for IC Block Diagrams.

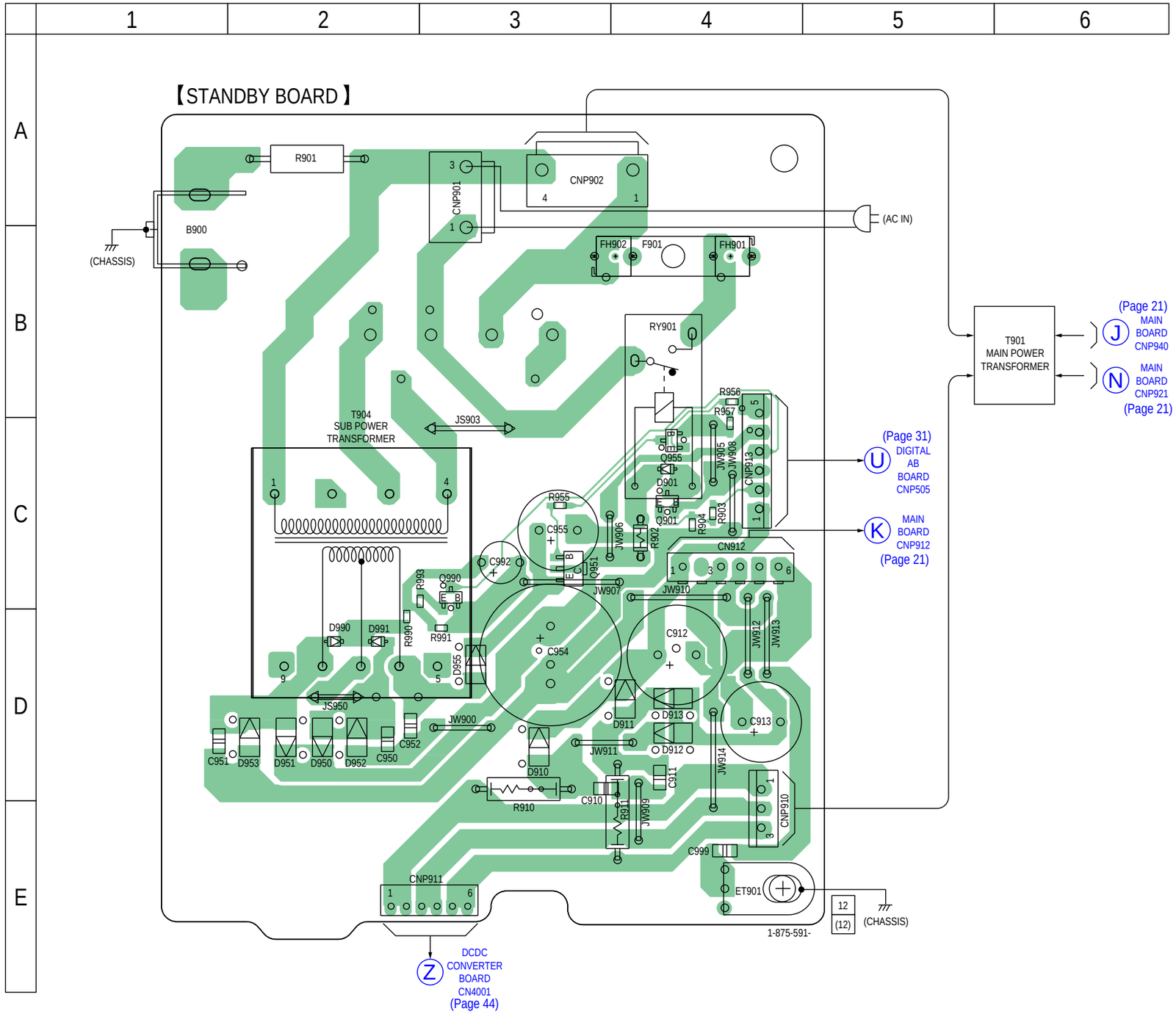


6-31. PRINTED WIRING BOARD - STANDBY Board -

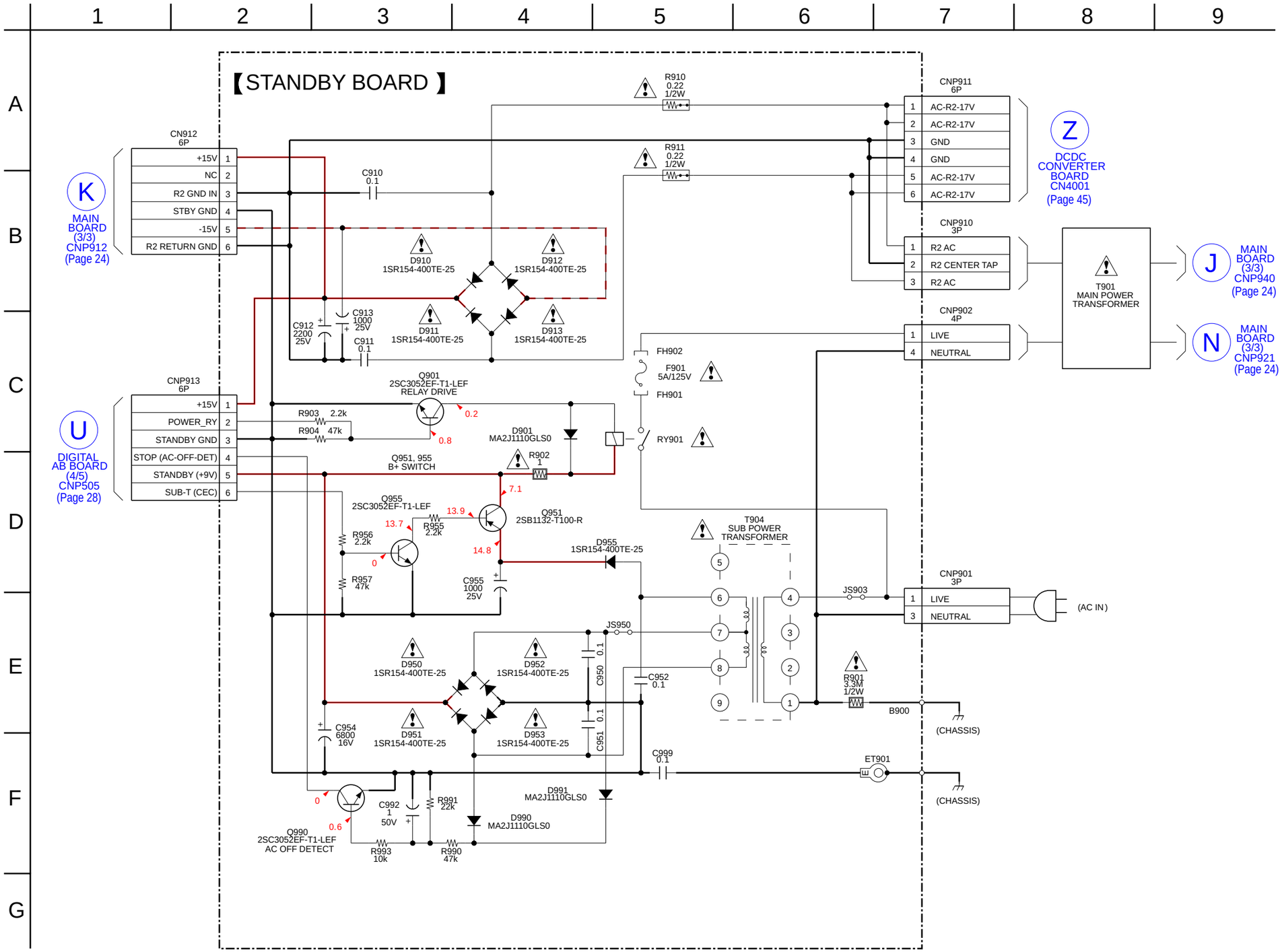
• See page 20 for Circuit Boards Location. • : Uses unleaded solder.

• **Semiconductor Location**

Ref. No.	Location
D901	C-4
D910	D-3
D911	D-4
D912	D-4
D913	D-4
D950	D-2
D951	D-2
D952	D-2
D953	D-2
D955	D-3
D990	D-2
D991	D-2
Q901	C-4
Q951	C-3
Q955	C-4
Q990	C-3



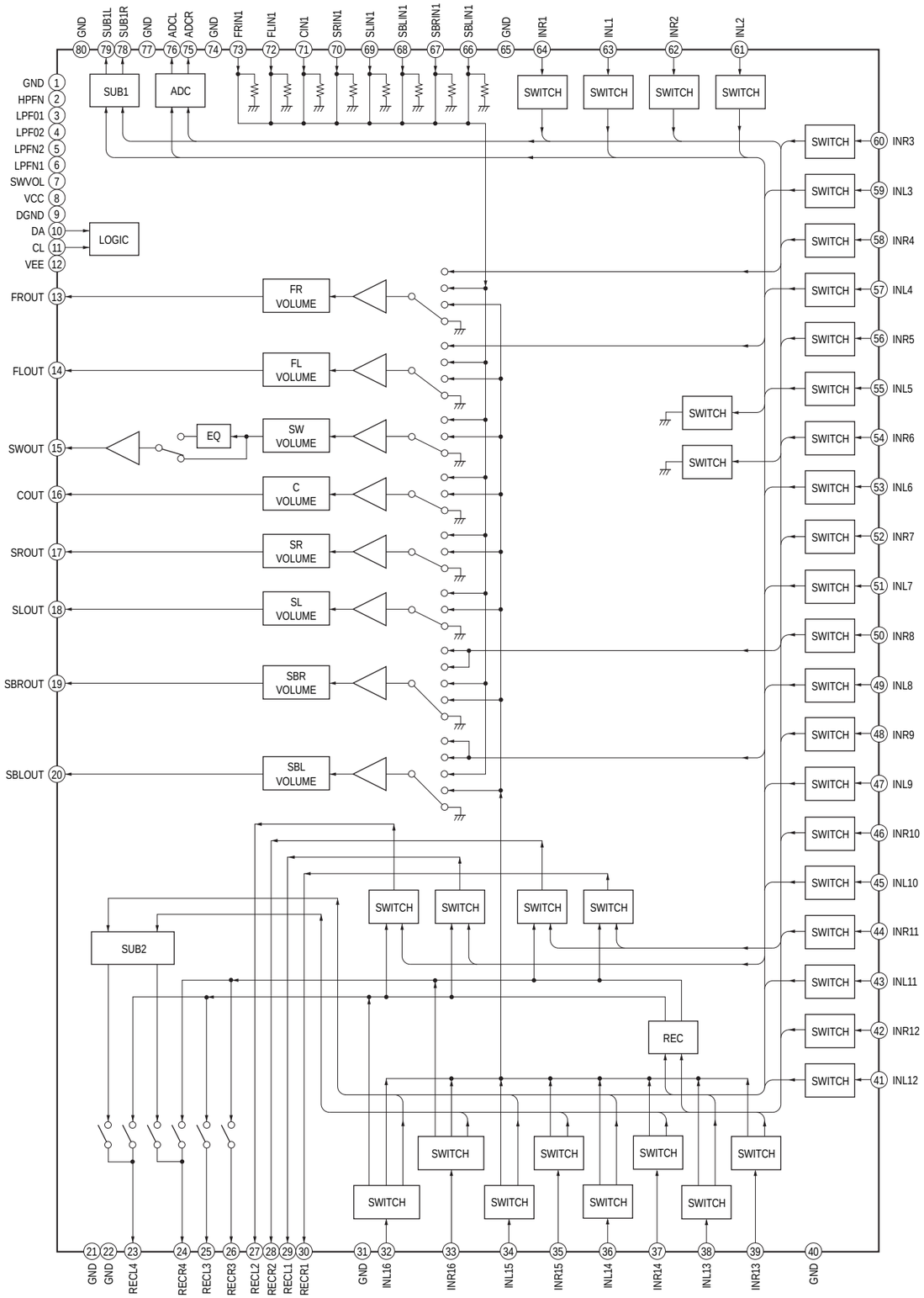
6-32. SCHEMATIC DIAGRAM - STANDBY Board -



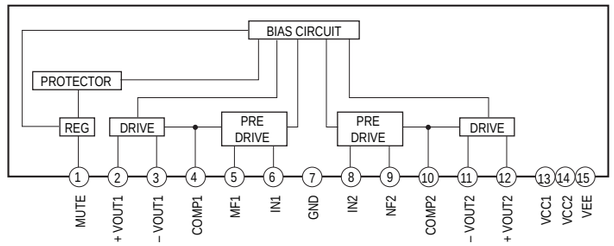
- **IC Block Diagrams**

– MAIN Board –

IC400 BD3471KS2

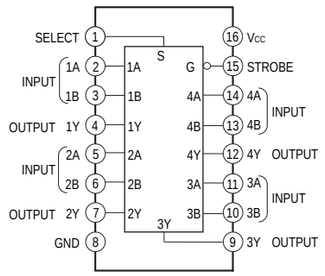


IC600, 700, 800 µPC2581V-S



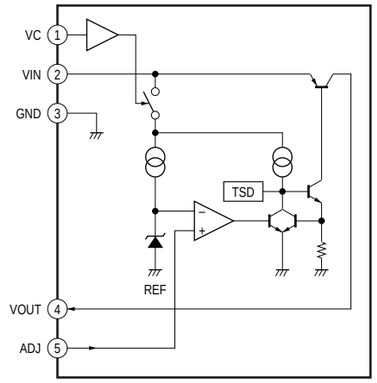
– DIGITAL AB Board –

IC1008 TC74VHC157FT (EL)

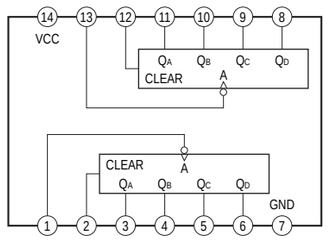


IC1012 SI-3050KM-TL

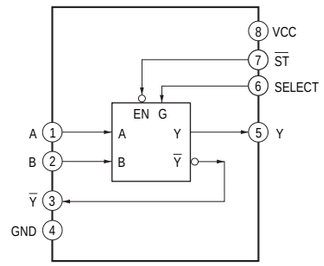
IC1013 SI-3033KM-TL



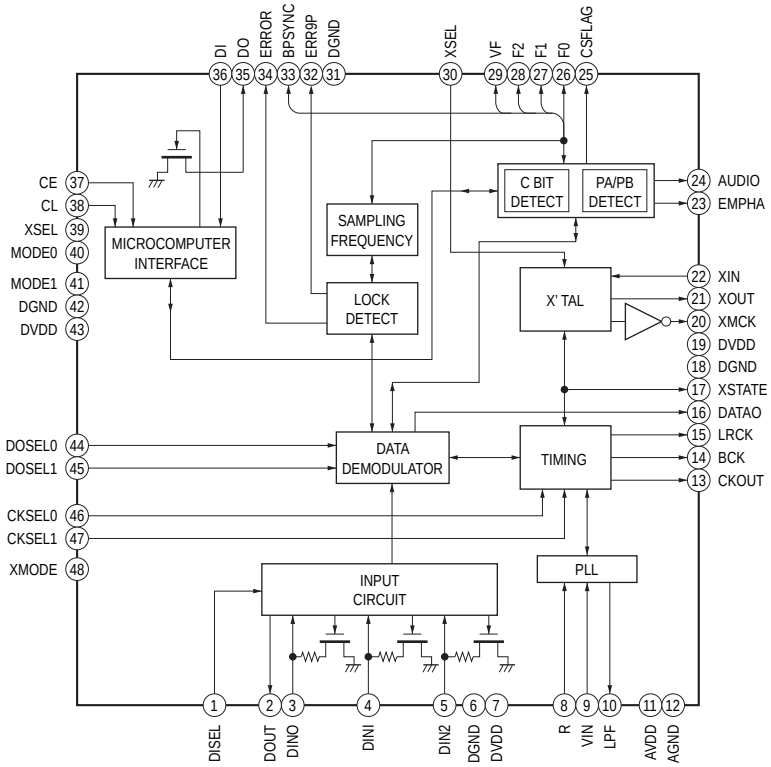
IC1016 TC74VHC393FT (EL)



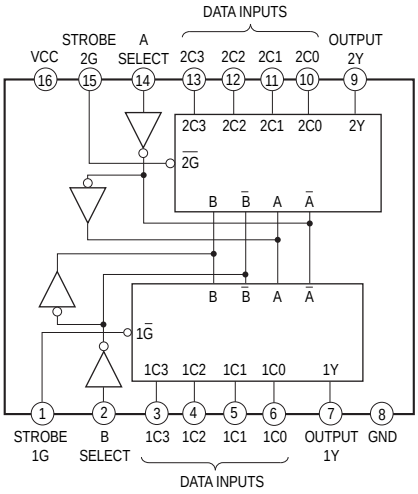
IC1017 TC7WH157FK (TE85R)



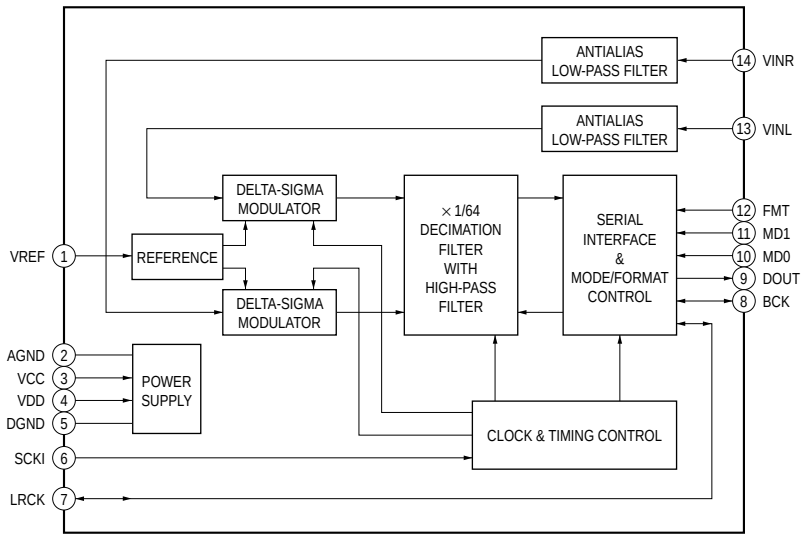
IC1301 LC89056W-E



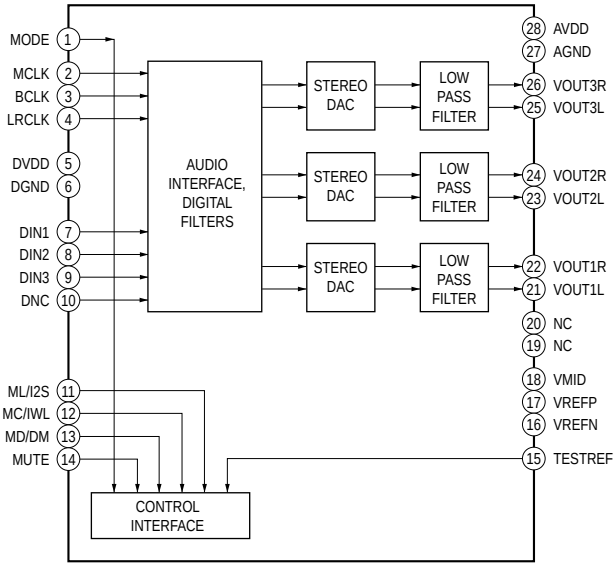
IC1302 TC74ACT153F (EL)



IC1401 PCM1808PWR

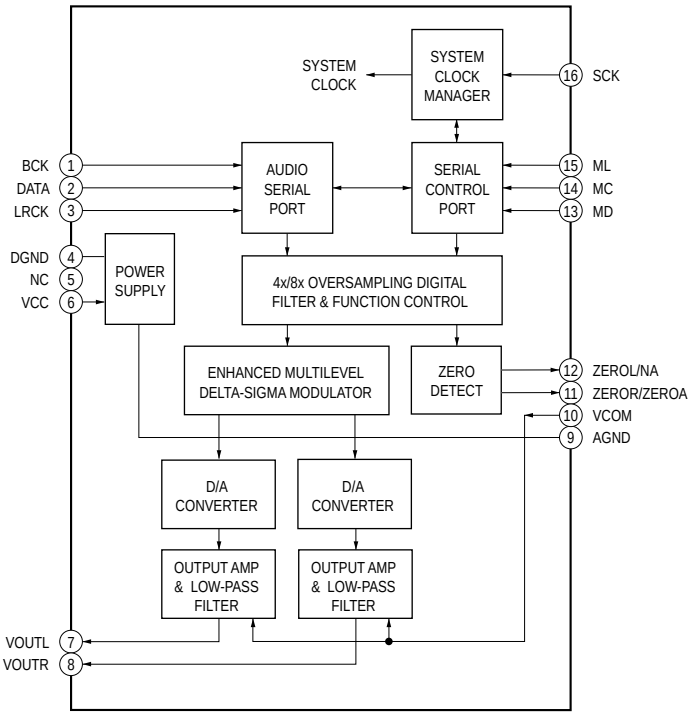


IC1452 WM8766GEDS/R

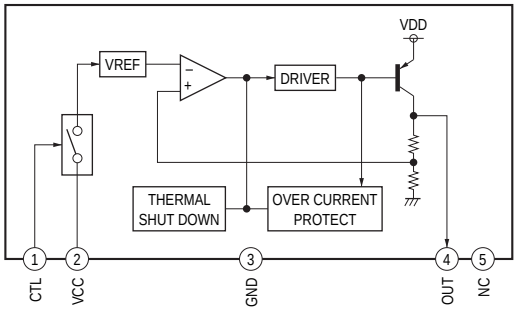


– XM Board –

IC105 PCM1753DBQR

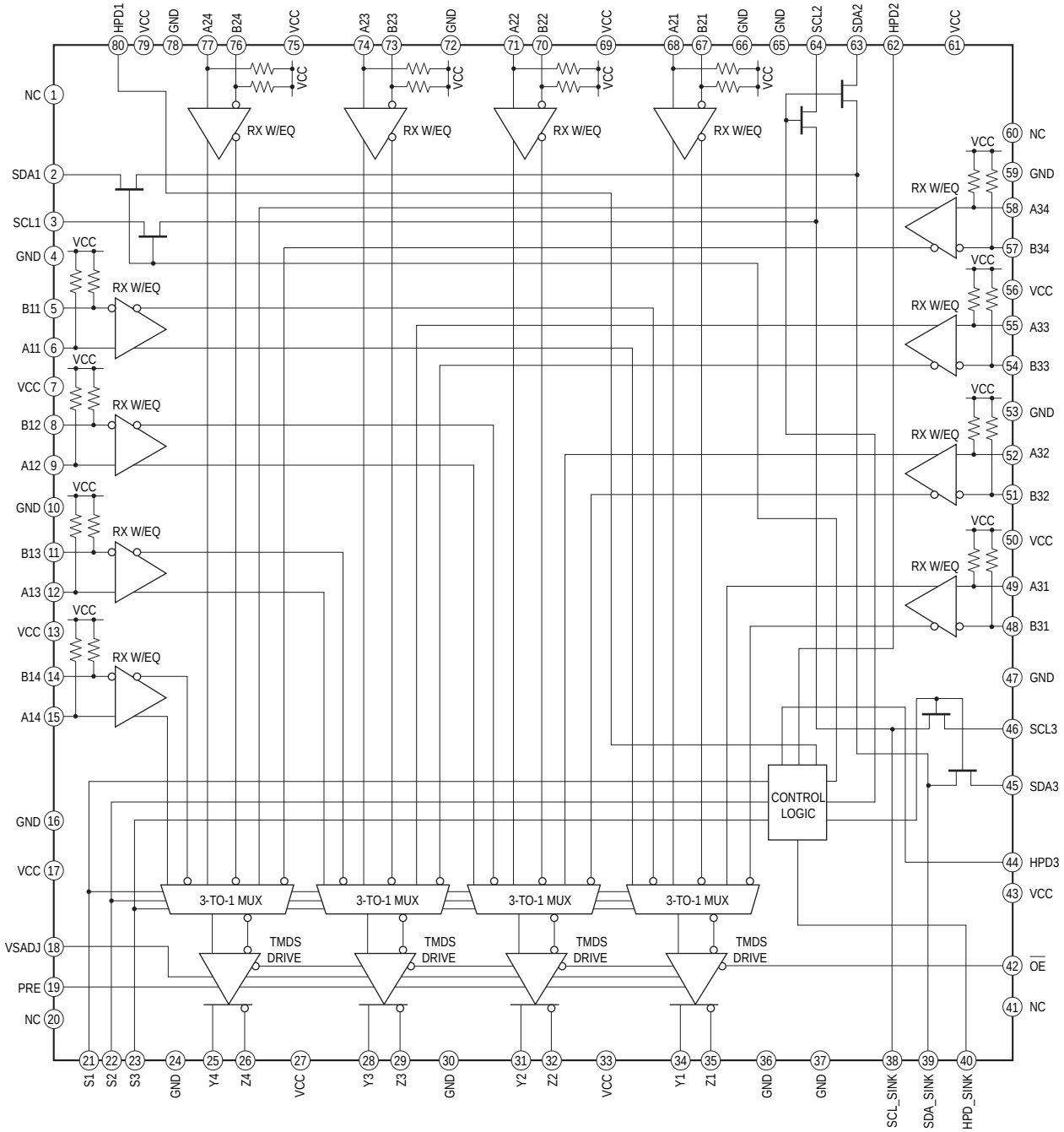


IC106 BA00BC0WFP-E2

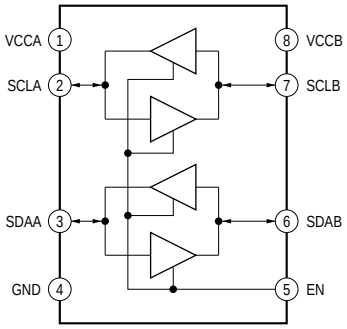


– HDMI Board –

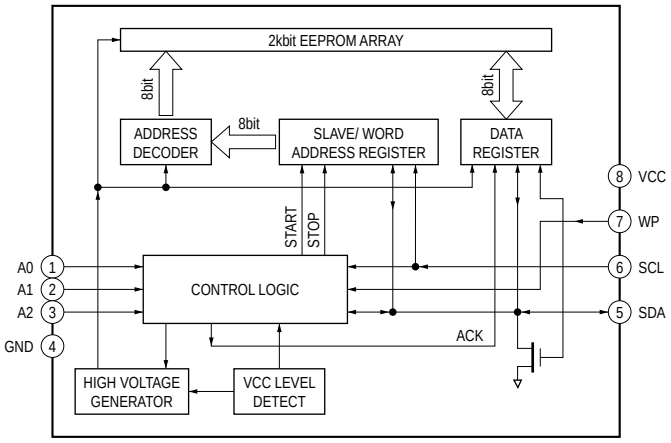
IC3503 TMDS341APFCR



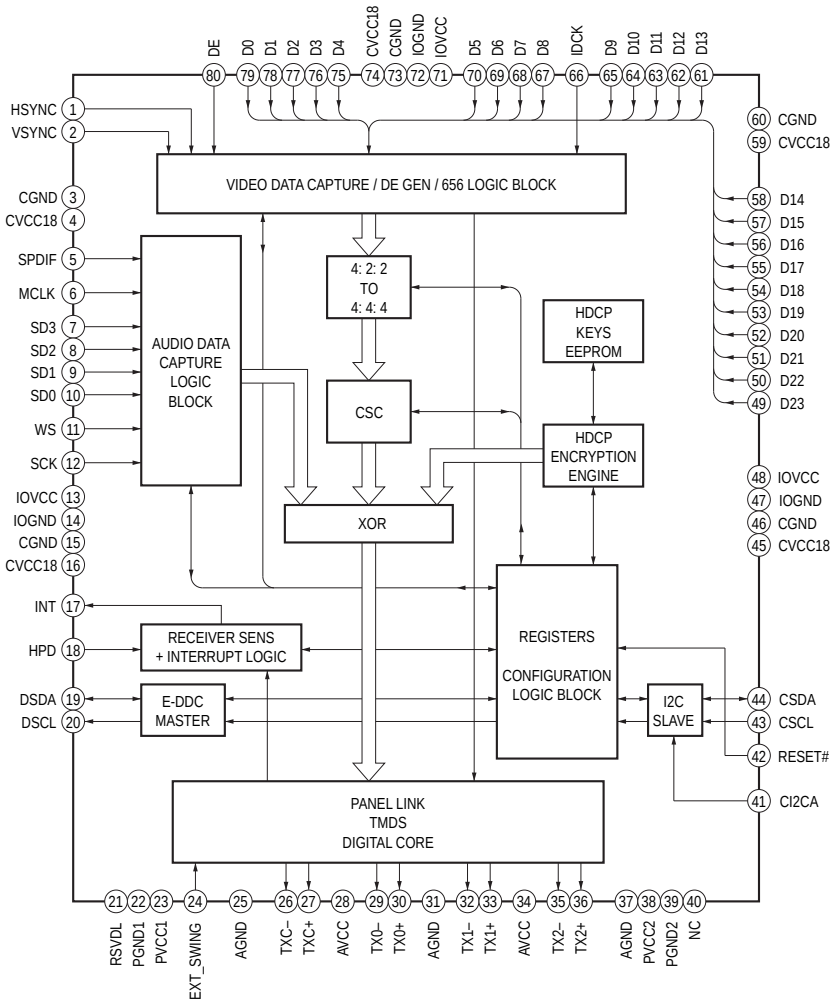
IC3507 PCA9517DP.118



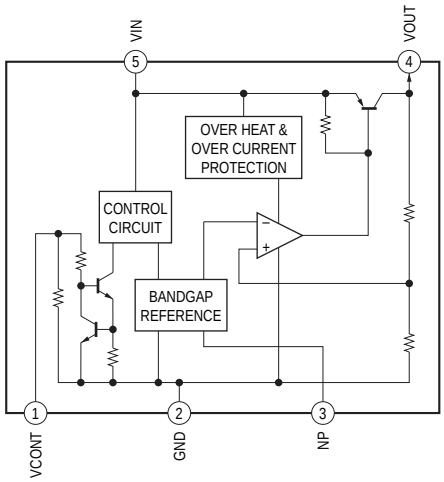
IC3509 BR24L02F-WE2



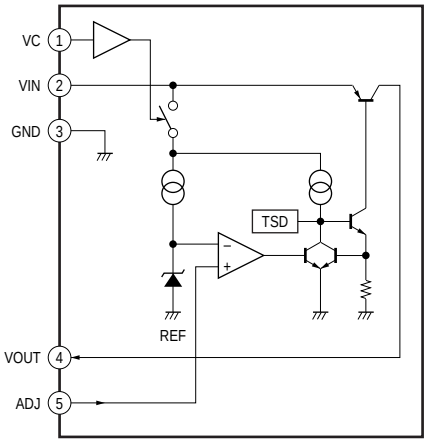
IC3513 SII9030CTU-7



IC3516 TK11150CSCL-G

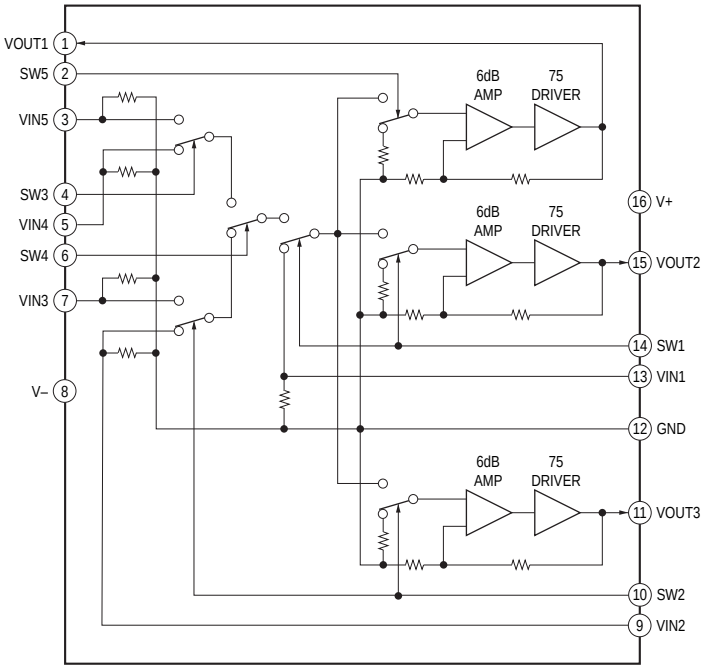


IC3526, 3527 SI-3033KM-TL

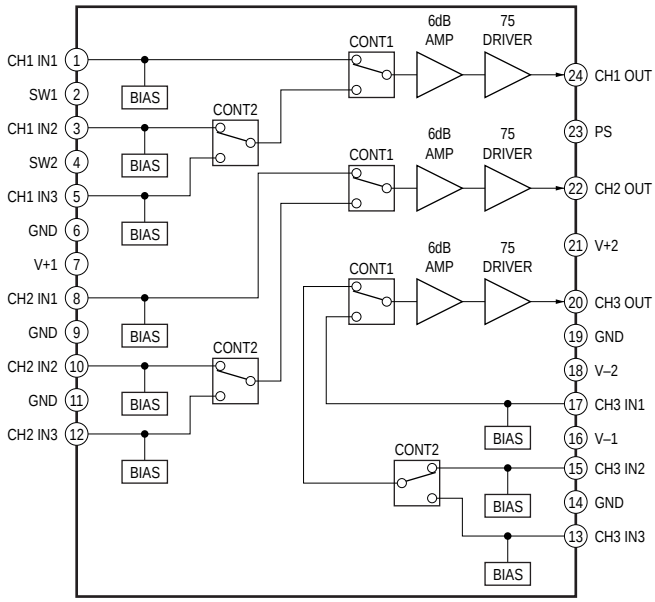


– VIDEO Board –

IC210 NJM2595M-TE2

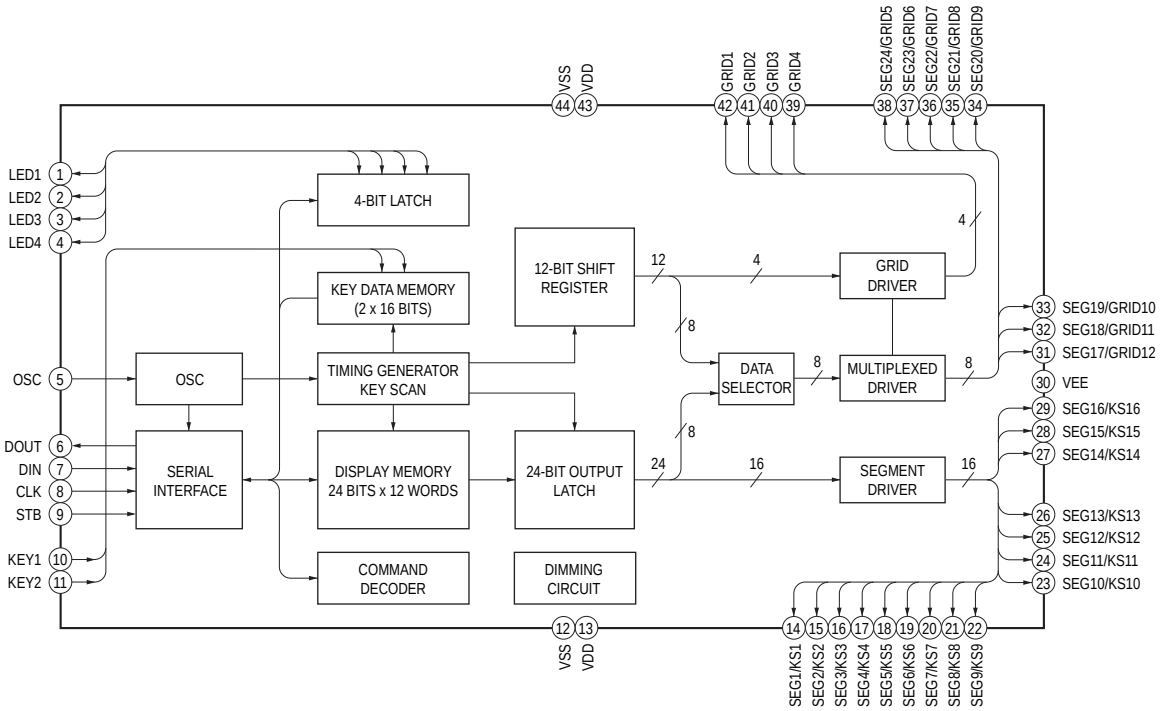


IC220 NJM2586AM



– DISPLAY Board –

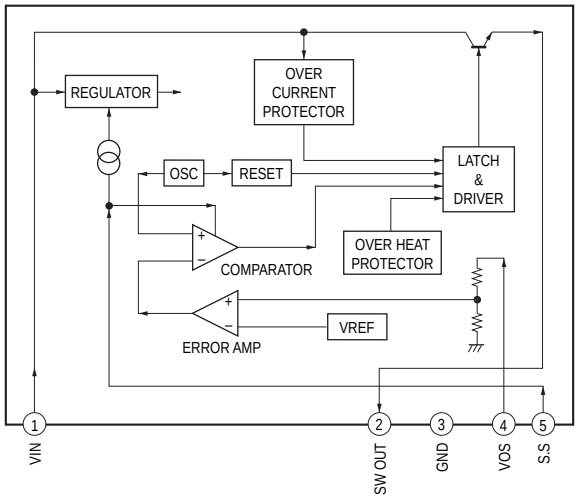
IC100 PT6315



– DCDC CONVERTER Board –

IC4001 SI-8050S-LF1101

IC4100 SI-8033S



• **IC Pin Function Description**

DIGITAL AB BOARD IC1009 ADSST-AVR-1115 (DSP)

Pin No.	Pin Name	I/O	Description
1	VDDINT	-	Power supply terminal (+1.2V)
2, 3	CLKCFG0, CLKCFG1	I	Clock frequency setting terminal
4, 5	BOOTCFG0, BOOTCFG1	I	Boot mode setting terminal for DSP
6	GND	-	Ground terminal
7	VDDEXT	-	Power supply terminal (+3.3V)
8	GND	-	Ground terminal
9	VDDINT	-	Power supply terminal (+1.2V)
10	GND	-	Ground terminal
11	VDDINT	-	Power supply terminal (+1.2V)
12	GND	-	Ground terminal
13	VDDINT	-	Power supply terminal (+1.2V)
14	GND	-	Ground terminal
15	FRAG0	O	Interrupt status output to the system controller
16	FRAG1	I	PLL lock error signal and data error flag input terminal
17	AD7	I/O	Two-way data bus and address signal output with S-RAM Not used
18	GND	-	Ground terminal
19	VDDINT	-	Power supply terminal (+1.2V)
20	GND	-	Ground terminal
21	VDDEXT	-	Power supply terminal (+3.3V)
22	GND	-	Ground terminal
23	VDDINT	-	Power supply terminal (+1.2V)
24 to 26	AD6 to AD4	I/O	Two-way data bus and address signal output with S-RAM Not used
27	VDDINT	-	Power supply terminal (+1.2V)
28	GND	-	Ground terminal
29, 30	AD3, AD2	I/O	Two-way data bus and address signal output with S-RAM Not used
31	VDDEXT	-	Power supply terminal (+3.3V)
32	GND	-	Ground terminal
33, 34	AD1, AD0	I/O	Two-way data bus and address signal output with S-RAM Not used
35	XWR	O	Data write enable signal output to the S-RAM "L": active Not used
36, 37	VDDINT	-	Power supply terminal (+1.2V)
38	GND	-	Ground terminal
39	XRD	O	Read strobe signal output to the S-RAM "L": active Not used
40	ALE	O	Address latch enable signal output terminal Not used
41 to 43	AD15 to AD13	I/O	Two-way data bus and address signal output with S-RAM Not used
44	GND	-	Ground terminal
45	VDDEXT	-	Power supply terminal (+3.3V)
46	AD12	I/O	Two-way data bus and address signal output with S-RAM Not used
47	VDDINT	-	Power supply terminal (+1.2V)
48	GND	-	Ground terminal
49 to 52	AD11 to AD8	I/O	Two-way data bus and address signal output with S-RAM Not used
53	A16	O	Address signal output to S-RAM Not used
54	VDDINT	-	Power supply terminal (+1.2V)
55	GND	-	Ground terminal
56, 57	A17, A18	O	Address signal output to S-RAM Not used
58	GND	-	Ground terminal
59	VDDEXT	-	Power supply terminal (+3.3V)
60	VDDINT	-	Power supply terminal (+1.2V)
61	GND	-	Ground terminal
62	PF_CE	I/O	Chip enable signal input/output terminal Not used
63	SPI_MAS	O	Master/slave selection signal output terminal "L": DSP is master Not used
64	DPSOA	O	PCM audio signal (front L/R) output to the D/A converter
65	DPSOB	O	PCM audio signal (surround L/R) output to the D/A converter
66	VDDINT	-	Power supply terminal (+1.2V)

Pin No.	Pin Name	I/O	Description
67	GND	-	Ground terminal
68	VDDINT	-	Power supply terminal (+1.2V)
69	GND	-	Ground terminal
70	DPSOC	O	PCM audio signal (center, sub woofer) output to the D/A converter
71	DPSOD	O	PCM audio signal (surround back L/R) output to the D/A converter
72	VDDINT	-	Power supply terminal (+1.2V)
73	VDDEXT	-	Power supply terminal (+3.3V)
74	GND	-	Ground terminal
75	VDDINT	-	Power supply terminal (+1.2V)
76	GND	-	Ground terminal
77	DPSOE	O	PCM audio signal output terminal Not used
78	DPSIA	I	PCM audio signal (digital input) input from the digital audio interface receiver
79	DPSIB	I	PCM audio signal (front L/R) input terminal
80	DPSIC	I	PCM audio signal (surround L/R) input terminal
81	DPSID	I	PCM audio signal (center, sub woofer) input terminal
82	DPSIE	I	PCM audio signal (surround back L/R) input terminal
83	VDDINT	-	Power supply terminal (+1.2V)
84, 85	GND	-	Ground terminal
86	DPDVLRCK	O	L/R sampling clock signal output to the D/A converter for PCM audio output
87	DPDVBCK	O	Bit clock signal output to the D/A converter for PCM audio output
88	DPLRCK	I	L/R sampling clock signal input terminal for PCM audio input
89	DPBCK	I	Bit clock signal input terminal for PCM audio input
90	VDDINT	-	Power supply terminal (+1.2V)
91, 92	GND	-	Ground terminal
93	VDDEXT	-	Power supply terminal (+3.3V)
94	DPFSCK	I	Master clock signal input terminal
95	GND	-	Ground terminal
96	VDDINT	-	Power supply terminal (+1.2V)
97	XNONAUDIO	I	Digital input signal switch control signal input from the digital audio interface receiver
98	XSF_CE	O	Chip enable signal output terminal Not used
99	VDDINT	-	Power supply terminal (+1.2V)
100	GND	-	Ground terminal
101	VDDINT	-	Power supply terminal (+1.2V)
102	GND	-	Ground terminal
103	VDDINT	-	Power supply terminal (+1.2V)
104	GND	-	Ground terminal
105	VDDINT	-	Power supply terminal (+1.2V)
106	GND	-	Ground terminal
107, 108	VDDINT	-	Power supply terminal (+1.2V)
109	GND	-	Ground terminal
110	VDDINT	-	Power supply terminal (+1.2V)
111	GND	-	Ground terminal
112	VDDINT	-	Power supply terminal (+1.2V)
113	GND	-	Ground terminal
114	VDDINT	-	Power supply terminal (+1.2V)
115	GND	-	Ground terminal
116	VDDEXT	-	Power supply terminal (+3.3V)
117	GND	-	Ground terminal
118	VDDINT	-	Power supply terminal (+1.2V)
119	GND	-	Ground terminal
120	VDDINT	-	Power supply terminal (+1.2V)
121	XRESET	I	System reset signal input from the system controller
122	XSPIDS	I	Serial data latch pulse signal input from the system controller
123	GND	-	Ground terminal
124	VDDINT	-	Power supply terminal (+1.2V)
125	SPICLK	I/O	Serial data transfer clock signal input/output with the system controller

Pin No.	Pin Name	I/O	Description
126	MISO	O	Serial data output to the main system controller
127	MOSI	I	Serial data input from the main system controller
128	GND	-	Ground terminal
129	VDDINT	-	Power supply terminal (+1.2V)
130	VDDEXT	-	Power supply terminal (+3.3V)
131	AVDD	-	Power supply terminal (+3.3V)
132	AVSS	-	Ground terminal
133	GND	-	Ground terminal
134	CLKOUT	-	Not used
135	XEMU	-	Not used
136	TDO	-	Not used
137	TDI	-	Not used
138	CTRST	-	Not used
139	TCK	-	Not used
140	TMS	-	Not used
141	GND	-	Ground terminal
142	CLKIN	I	System clock input terminal (25 MHz)
143	XTAL	O	System clock output terminal (25 MHz)
144	VDDEXT	-	Power supply terminal (+3.3V)

DIGITAL AB BOARD IC1010 MB91353APMT-G-117E1 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	XMDACMC	O	Clock signal output to the D/A converter
2	XMDACMS	O	Serial data latch pulse signal output to the D/A converter
3	XMDACMD1	O	Serial data output to the D/A converter
4	DAC_D1	O	Serial data output to the D/A converter
5	TUNING A	I	Jog dial pulse input terminal Not used
6	TUNING B	I	Jog dial pulse input terminal Not used
7	HDMI_REG_CTRL	O	Power on/off control signal output terminal for the HDMI section "H": power on
8	DSP_SELECT	O	DSP select signal output to the switiching and data selector
9	POWER RY	O	Relay drive signal (for main power) output terminal "H": relay on
10	VOL_CL	O	Clock signal output to the electrical volume
11	VOL_DA	O	Serial data output to the electrical volume
12	HP_DETECT	I	Headphone detection signal input terminal "H": headphone is connected
13	HP_RY	O	Relay drive signal (for headphone) output terminal "H": relay on
14	C/SUR/SB	O	Relay drive signal (for center and surround) output terminal "H": relay on
15	FRONT B RY/ST SW RY	O	Relay drive signal (for front B) output terminal "H": relay on Not used
16	SW RY	O	Relay drive signal (for sub woofer) output terminal "H": relay on
17	FRONT A RY	O	Relay drive signal (for front A) output terminal "H": relay on
18	GND	-	Ground terminal
19	VCC	-	Power supply terminal (+3.3V)
20	SBR RY	O	Relay drive signal (for surround back) output terminal Not used
21	TUNE_LAT	O	Serial data latch pulse signal output to the tuner (FM/AM)
22	TUNE_DI	O	Serial data output to the tuner (FM/AM)
23	T_CLK	O	Serial data transfer clock signal output to the tuner (FM/AM)
24	TUNE_DO	I	PLL data input from the tuner (FM/AM)
25	FUSE_DETECT	I	Fuse detection signal input terminal
26	DAC_ATC	O	Serial data latch pulse signal output to the D/A converter
27	DAC_MUTE	O	Muting signal output to the D/A converter
28	CEC_OUT	O	CEC serial data output to the HDMI OUT connector
29	DIR_XSTATE	I	Source clock selection monitor input from the digital audio interface receiver
30	HDMI_ERR	I	HDMI audio error signal input terminal
31 to 34	V_SW4 to V_SW1	O	Video select signal output to the video amplifier
35, 36	COMP_S1, COMP_S2	O	Component video select signal output to the video amplifier
37	PS(V-MUTE)	O	Muting signal output to the video amplifier
38	DIR_XMODE(RESET)	O	Reset signal output to the digital audio interface receiver "L": reset
39	DIRCKST	O	Clock selection signal output to the digital audio interface receiver
40	GND	-	Ground terminal
41, 42	NO USE	-	Not used
43	GND	-	Ground terminal
44	+3.3V	-	Power supply terminal (+3.3V)
45	DIR CLK	O	Serial data transfer clock signal output to the digital audio interface receiver
46	DIR CE(LAT)	O	Chip enable signal output to the digital audio interface receiver
47	DIR DI	O	Serial data output to the digital audio interface receiver
48	DIR DO	I	Serial data input from the digital audio interface receiver
49	DIR ERROR	I	PLL lock error signal and data error flag input from the digital audio interface receiver
50	HDMI_FSRATE	I	Serial data input terminal
51	NMI	I	Non maskable interrupt signal input terminal Not used
52	MD2	I	CPU operation mode setting signal input terminal "H": flash programming
53	MD1	I	CPU operation mode setting signal input terminal Not used
54	MD0	I	CPU operation mode setting signal input terminal Not used
55	INIT	I	External reset signal input terminal
56	+3.3V	-	Power supply terminal (+3.3V)
57	X1	O	Main system clock output terminal (24 MHz)
58	X0	I	Main system clock input terminal (24 MHz)
59	GND	-	Ground terminal

Pin No.	Pin Name	I/O	Description
60	XOA	I	Sub system clock input terminal Not used
61	X1A	O	Sub system clock output terminal Not used
62	RST_TRG	O	Reset signal output terminal
63	DIR_DATA0	I	Serial data input from the digital audio interface receiver
64	DSP_RESET	O	System reset signal output to the DSP
65	DSP_SPIDS(LAT)	O	Serial data latch pulse signal output to the DSP
66	74ACT153_B	O	Data selection signal output terminal
67	74ACT154_A	O	Data selection signal output terminal
68	PROTECTOR	I	Protector status detect signal input terminal
69	FL LAT	O	Strobe signal output to the fluorescent indicator tube
70	FL_CLK	O	Serial data transfer clock signal output to the fluorescent indicator tube
71	FL_DATA	O	Serial data output to the fluorescent indicator tube
72	NO USE	O	Not used
73	DSP MISO	I	Serial data input from the DSP
74	DSP MOSI	O	Serial data output to the DSP
75	DSP SPICLK	I/O	Serial data transfer clock signal input/output with the DSP
76	GND	-	Ground terminal
77	+3.3V	-	Power supply terminal (+3.3V)
78	EEPROM CLK	O	Serial data transfer clock signal output to the EEPROM
79	VOL_JOG (2B)	I	Jog dial pulse input from the rotary encoder (for MASTER VOLUME) (B phase input)
80	VOL_JOG (2A)	I	Jog dial pulse input from the rotary encoder (for MASTER VOLUME) (A phase input)
81	DSPINT	I	Interrupt status input from the DSP
82	DCAC_DSP_IN	I	Mic signal interrupt input terminal
83	STOP	I	AC off detection signal input terminal "L": AC off
84	SIRCS_IN	I	SIRCS signal input from the remote control receiver
85	POWER KEY	I	Power key input terminal
86	XMDPOWER	O	XM power supply on/off control signal output terminal "H": power on
87	RDS DATA	I	RDS serial data input terminal Not used
88	CEC IN	I	CEC serial data input from the HDMI OUT connector
89	INPUT ENCODER A	I	Jog dial pulse input from the rotary encoder (for INPUT SELECTOR) (A phase input)
90	INPUT ENCODER B	I	Jog dial pulse input from the rotary encoder (for INPUT SELECTOR) (B phase input)
91	NO USE	O	Not used
92	XM_MIXMO	O	Serial data output to the XM receiver
93	XM_MOXMI	I	Serial data input from the XM receiver
94	XMRESET	O	Reset signal output to the XM receiver "L": reset
95	+3.3V	-	Power supply terminal (+3.3V)
96	GND	-	Ground terminal
97	SUBT	O	Transformer power supply on/off control signal output terminal
98	EEPROM DATA	I/O	Two-way data bus with the EEPROM
99	CLINK_TX	I	Receive data input from the DMPORT connector
100	CLINK_RX	O	Transmit data output to the DMPORT connector
101	CLINK_DET	I	Digital media port adapter connection detection signal input terminal
102	FLASH2/HDMI_UART_RX	O	UART data output to the HDMI controller
103	FLASH1/HDMI_UART_TX	I	UART data input from the HDMI controller
104	HDMI RESET	O	System reset signal output to the HDMI controller "L": reset
105, 106	NO USE	-	Not used
107	GND	-	Ground terminal (for D/A converter)
108	DAVC	-	Power supply terminal (+3.3V) (for D/A converter)
109	AVCC	-	Analog power supply terminal (+3.3V) (for A/D converter)
110	AVRH	-	Reference voltage input terminal (+3.3V) (for A/D converter)
111	AVSS/AVRL	-	Analog ground terminal (for A/D converter)
112	GND	-	Ground terminal
113, 114	AD KEY1, AD KEY2	I	Front panel key input terminal (A/D input)
115	DCAC_IN	I	Mic signal input terminal

Pin No.	Pin Name	I/O	Description
116	VERSION	I	Setting terminal for the destination
117	RDS SIGNAL	I	Tuning detection signal input from the tuner (FM/AM)
118	MODEL	I	Setting terminal for the model
119	VACS_CTRL	I	VACS control signal input terminal
120	NO USE	I	Not used

XM BOARD IC102 F2602E-01-TR (XM RECEIVER)

Pin No.	Pin Name	I/O	Description
1	LSOPTXRX	-	Not used
2	VSS	-	Ground terminal
3	SCTXOUT	O	Serial data output to the system controller
4	VDD	-	Power supply terminal (+3.3V)
5	SCRXIN	I	Serial data input from the system controller
6	VSS	-	Ground terminal
7	COMMSEL	I	Command mode selection signal input terminal Not used
8	VDD	-	Power supply terminal (+3.3V)
9	IRQ	O	Interrupt request signal output terminal Not used
10	VSS	-	Ground terminal
11	RESET	I	Reset signal input from the system controller "L": reset
12	SLAVESL	I	Master/slave mode setting terminal "L": master mode, "H": slave mode Fixed at "L" in this set
13	COMRXDIG	-	Not used
14	COMTXDIG	-	Not used
15	COMTXEN	-	Not used
16	VSS	-	Ground terminal
17	VDD	-	Power supply terminal (+3.3V)
18	COMRXP	I	XM receiver differential signal (positive) input terminal
19	COMRXM	I	XM receiver differential signal (negative) input terminal
20	VDD	-	Power supply terminal (+3.3V)
21	VSS	-	Ground terminal
22	COMTXM	O	XM transmitter differential signal (negative) output terminal
23	COMTXP	O	XM transmitter differential signal (positive) output terminal
24, 25	VSS	-	Ground terminal
26	OSCOUT	O	System clock output terminal (45.1584 MHz)
27	VDD	-	Power supply terminal (+3.3V)
28	OSCIN	I	System clock input terminal (45.1584 MHz)
29	VSS	-	Ground terminal
30	TEST	-	Not used
31	VSS	-	Ground terminal
32	HSDPDATA	-	Not used
33	VDD	-	Power supply terminal (+3.3V)
34	HSDPCLK	-	Not used
35	VSS	-	Ground terminal
36	HSDPEN	-	Not used
37	I2SDATA	O	I2S digital audio data output to the D/A converter
38	VSS	-	Ground terminal
39	I2SSCLK	O	I2S bit clock signal output to the D/A converter
40	VDD	-	Power supply terminal (+3.3V)
41	I2SLRCLK	O	I2S L/R sampling clock signal output to the D/A converter
42	VSS	-	Ground terminal
43	I2SOCLK	O	I2S over sample clock signal output to the D/A converter
44	VSS	-	Ground terminal
45	SAIICLK	-	Not used
46	VDD	-	Power supply terminal (+3.3V)
47	SAIIDATA	-	Not used
48	SAIIEN	-	Not used

HDMI BOARD IC3511 SII9011CLU (HDMI RECEIVER)

Pin No.	Pin Name	I/O	Description
1	VSYNC	O	Vertical synchronize signal output for the HDMI transceiver
2 to 5	QO23 to QO20	-	Not used
6	IOGND	-	Ground terminal
7	IOVCC	-	Power supply terminal (+3.3V)
8 to 11	QO19 to QO16	-	Not used
12	CVCC18	-	Power supply terminal (+1.8V)
13	CGND	-	Ground terminal
14 to 17	QO15 to QO12	-	Not used
18	IOGND	-	Ground terminal
19	IOVCC	-	Power supply terminal (+3.3V)
20 to 23	QO11 to QO8	-	Not used
24	CVCC18	-	Power supply terminal (+1.8V)
25	CGND	-	Ground terminal
26 to 29	QO7 to QO4	-	Not used
30	IOGND	-	Ground terminal
31	IOVCC	-	Power supply terminal (+3.3V)
32 to 35	QO3 to QO0	-	Not used
36	CVCC18	-	Power supply terminal (+1.8V)
37	CGND	-	Ground terminal
38	CI2CA	-	Not used
39	CSDA	I/O	I2C two-way data bus with the HDMI controller and HDMI transceiver
40	CSCL	I	I2C clock signal input from the HDMI controller
41	DSDA	I/O	I2C two-way data bus with the level shift and data selector
42	DSDL	I	I2C clock signal input from the level shift and data selector
43	NC	-	Not used
44	PWR5V	I	Power detect signal input terminal
45	CVCC18	-	Power supply terminal (+1.8V)
46	PGND	-	Ground terminal
47	PVCC	-	Power supply terminal (+3.3V)
48	PSVD	-	Not used
49	AVCC	-	Power supply terminal (+3.3V)
50	RXC-	I	TMDS clock signal input from the HDMI input selector
51	RXC+	I	TMDS clock signal input from the HDMI input selector
52	AGND	-	Ground terminal
53	AVCC	-	Power supply terminal (+3.3V)
54	RX0-	I	TMDS data input from the HDMI input selector
55	RX0+	I	TMDS data input from the HDMI input selector
56	AGND	-	Ground terminal
57	AVCC	-	Power supply terminal (+3.3V)
58	RX1-	I	TMDS data input from the HDMI input selector
59	RX1+	I	TMDS data input from the HDMI input selector
60	AGND	-	Ground terminal
61	AVCC	-	Power supply terminal (+3.3V)
62	RX2-	I	TMDS data input from the HDMI input selector
63	RX2+	I	TMDS data input from the HDMI input selector
64, 65	AGND, DGND	-	Ground terminal
66	DVCC18	-	Power supply terminal (+1.8V)
67	MUTE	O	Audio muting signal output terminal
68	IOVCC	-	Power supply terminal (+3.3V)
69	IOGND	-	Ground terminal
70	SPDIF	O	SPDIF signal output for the digital audio interface receiver and HDMI transceiver
71 to 74	SD3 to SD0	O	Serial data output for the DSP and HDMI transceiver
75	WS	O	Word select signal output for the DSP and HDMI transceiver
76	SCK	O	Serial clock signal output for the DSP and HDMI transceiver
77	IOVCC	-	Power supply terminal (+3.3V)

Pin No.	Pin Name	I/O	Description
78	IOGND	-	Ground terminal
79	MCLK	O	Audio master clock signal output for the DSP and HDMI transceiver
80	CGND	-	Ground terminal
81	CVCC18	-	Power supply terminal (+1.8V)
82	AUDPVCC18	-	Power supply terminal (+1.8V)
83	AUDPGND	-	Ground terminal
84	XTALOUT	O	System clock output termnal (28.322 MHz)
85	XTALIN	I	System clock input terminal (28.322 MHz)
86	ZTALVCC	-	Power supply terminal (+3.3V)
87	REGVCC	-	Power supply terminal (+3.3V)
88	RSVDL	-	Not used
89	RESET	I	Reset signal input from the HDMI controller "L": reset
90	SCDT	-	Not used
91	INT	O	Interrupt signal output for the HDMI controller
92 to 96	QE23 to QE19	O	Serial data output for the HDMI transceiver
97	IOGND	-	Ground terminal
98	IOVCC	-	Power supply terminal (+3.3V)
99 to 105	QE18 to QE12	O	Serial data output for the HDMI transceiver
106	IOGND	-	Ground terminal
107	IOVCC	-	Power supply terminal (+3.3V)
108 to 111	QE11 to QE8	O	Serial data output for the HDMI transceiver
112	CVCC18	-	Power supply terminal (+1.8V)
113	CGND	-	Ground terminal
114 to 117	QE7 to QE4	O	Serial data output for the HDMI transceiver
118	IOGND	-	Ground terminal
119	ODCK	O	Output data clock signal output for the HDMI transceiver
120	IOVCC	-	Power supply terminal (+3.3V)
121 to 124	QE3 to QE0	O	Serial data output for the HDMI transceiver
125	CVCC18	-	Power supply terminal (+1.8V)
126	CGND	-	Ground terminal
127	DE	O	Data enable signal output for the HDMI transceiver
128	HSYNC	O	Horizontal synchronize signal output for the HDMI transceiver

HDMI BOARD IC3519 M30620FCPGP-RSX01 (HDMI CONTROLLER)

Pin No.	Pin Name	I/O	Description
1 to 5	NC	-	Not used
6	BYTE	-	Not used
7	CNVSS	I	Processor mode switch input terminal (for test)
8, 9	NC	-	Not used
10	RESET	I	System reset signal input from the main system controller "L": reset
11	XOUT	O	System clock output terminal (10 MHz)
12	VSS	-	Ground terminal
13	XIN	I	System clock input terminal (10 MHz)
14	VCC_3.3V	-	Power supply terminal (+3.3V)
15	NMI	-	Not used
16 to 18	NC	-	Not used
19	RX_RST	O	System reset signal output to the HDMI receiver "L": reset
20	RX_INT	I	Interrupt status input from the HDMI receiver
21	RX_HPD1	O	Hot plug connection detect signal output to the HDMI input selector
22 to 26	NC	-	Not used
27	CSCL	O	Serial data transfer clock signal output to the HDMI section
28	CSDA	I/O	Two-way data bus with the HDMI section
29	232COUT	O	Serial data output terminal for the RS-232C
30	232CIN	I	Serial data input terminal for the RS-232C
31, 32	NC	-	Not used
33	TX	I	UART data input from the system controller
34	RX	O	UART data output to the system controller
35	EEPROMSEL1	O	Write enable signal output to the EEPROM
36 to 39	NC	-	Not used
40	VDAC_RESET	-	Not used
41	TX_5VPWR	O	Power on/off control signal output terminal "H": power on
42	TX_RST	I	Interrupt status input from the HDMI transceiver
43	TX_INT	O	System reset signal output to the HDMI transceiver "L": reset
44 to 50	NC	-	Not used
51 to 53	TMDS_S1 to TMDS_S3	O	Source selection signal output to the HDMI input selector
54	TMDS_OEB	O	Output enable signal output to the HDMI input selector
55, 56	P5V_SELA, P5V_SELB	O	HDMI SAT IN, DVD IN, VEDEO 2/BD IN jack detection signal select signal output terminal
57 to 59	NC	-	Not used
60	VCC_3.3V	-	Power supply terminal (+3.3V)
61	NC	-	Not used
62	VSS	-	Ground terminal
63, 64	NC	-	Not used
65	MUTE	O	Audio muting signal output terminal
66	AD_SW	-	Not used
67	AD_INT	-	Not used
68	AD_RST	-	Not used
69	PROUT_RST	-	Not used
70	PROU_OUT_SW	-	Not used
71 to 90	NC	-	Not used
91 to 93	MODEL_SW3 to MODEL_SW1	I	Model setting terminal
94	AVSS	-	Ground terminal
95	NC	-	Not used
96	VREF	I	Reference voltage (+3.3V) input terminal
97	AVCC	-	Power supply terminal (+3.3V)
98 to 100	NC	-	Not used

SECTION 7
EXPLODED VIEWS

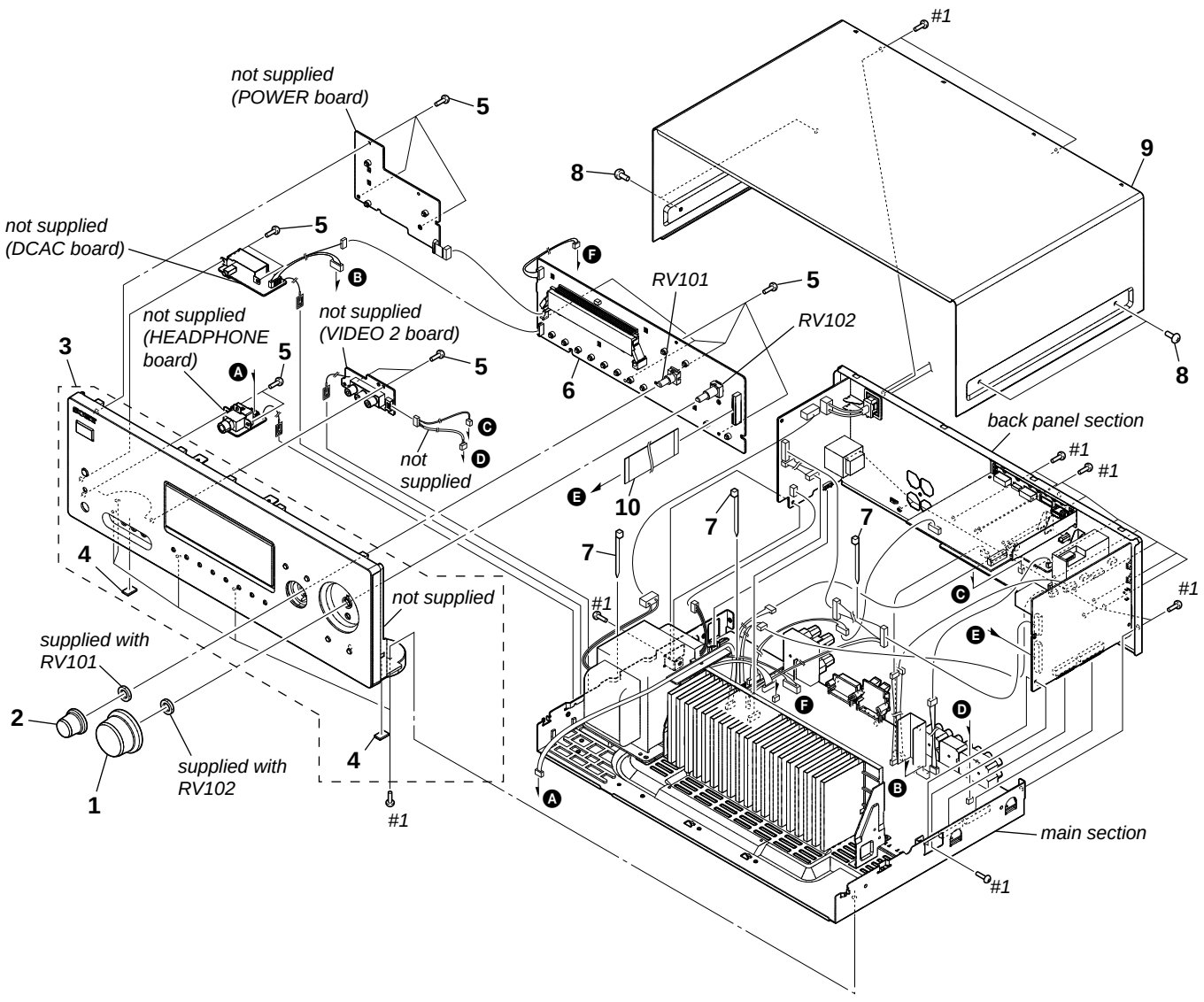
Note:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts Color ↑ Cabinet's Color

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

The components identified by mark 🔒 contain confidential information.
Strictly follow the instructions whenever the components are repaired and/or replaced.

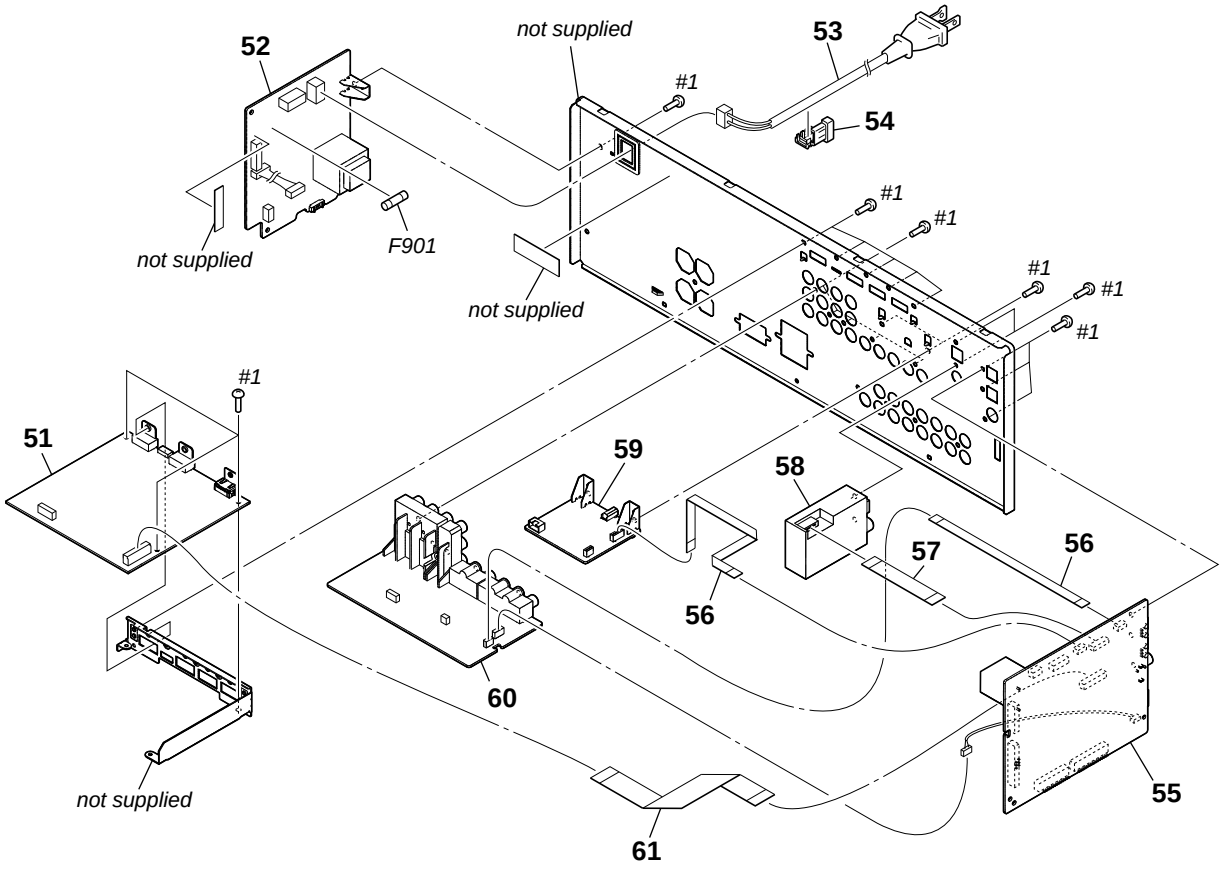
7-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	2-661-142-01	VOLUME KNOB	
2	X-2190-020-1	KNOB MENU ASSY	
3	X-2187-665-1	FRONT PANEL ASSY	
4	4-977-358-01	CUSHION	
5	3-087-053-01	+BVTP2.6 (3CR)	
6	A-1433-584-A	DISPLAY BOARD, COMPLETE	
7	3-701-748-00	CLAMP	

Ref. No.	Part No.	Description	Remark
8	2-580-630-01	SCREW, +BVST 4X8	
9	3-285-693-11	CASE	
10	1-828-994-11	WIRE (FLAT TYPE) (17 CORE)	
RV101	1-418-817-31	ENCODER, ROTARY (INPUT SELECTOR)	
RV102	1-418-725-41	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

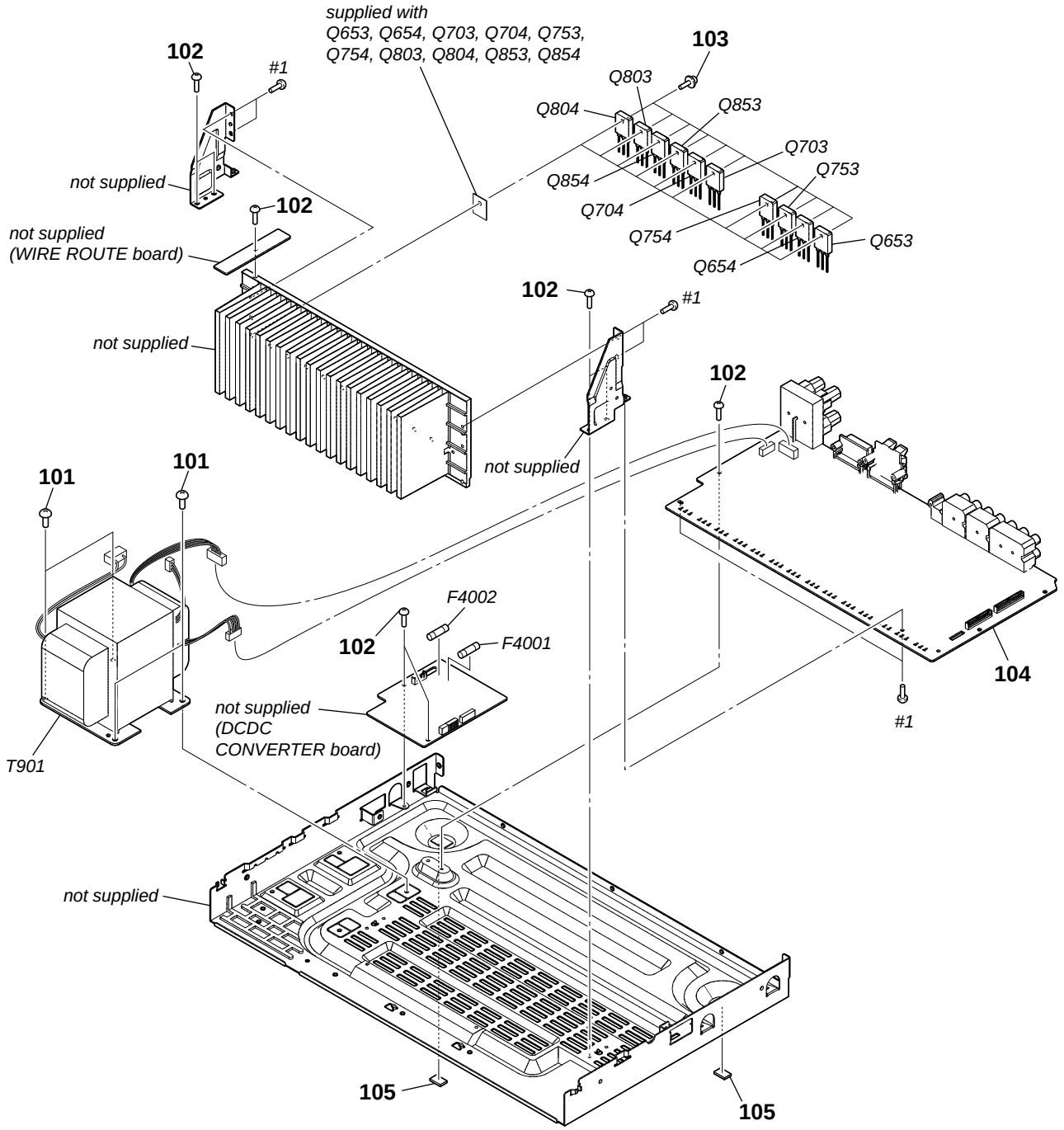
7-2. BACK PANEL SECTION



Note: If wire (flat type) is replaced, install it after bending it in the same form as that before replacement.

Ref. No.	Part No.	Description	Remark
51	A-1438-372-A	HDMI BOARD, COMPLETE (for SERVICE)	
52	A-1433-572-A	STANDBY BOARD, COMPLETE	
⚠ 53	1-783-820-11	CORD, POWER	
54	4-966-267-12	BUSHING (FBS001), CORD	
55	A-1433-593-A	DIGITAL AB BOARD, COMPLETE	
56	1-828-299-51	WIRE (FLAT TYPE) (7 CORE)	
57	1-828-951-11	WIRE (FLAT TYPE) (9 CORE)	
58	1-693-728-31	TUNER (FM/AM)	
59	A-1433-639-A	XM BOARD, COMPLETE	
60	A-1433-570-A	VIDEO BOARD, COMPLETE	
61	1-828-350-51	WIRE (FLAT TYPE) (17 CORE)	
⚠ F901	1-533-453-12	FUSE, GLASS TUBE (DIA. 5) (5A/125V)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

7-3. MAIN SECTION



Ref. No.	Part No.	Description	Remark
101	4-249-675-01	+BV SUMITITE S 4X6 ROUND	
102	3-077-331-21	+BV3 (3-CR)	
103	3-905-609-01	SCREW (TRANSISTOR)	
104	A-1433-569-A	MAIN BOARD, COMPLETE	
105	4-977-358-01	CUSHION	
⚠ F4001	1-532-465-33	FUSE (T3.15AL/250V)	
⚠ F4002	1-532-465-33	FUSE (T3.15AL/250V)	
Q653	6-702-390-01	TRANSISITOR MN2488-OPY-MK	
Q654	6-702-391-01	TRANSISITOR MP1620-OPY-MK	
Q703	6-702-390-01	TRANSISITOR MN2488-OPY-MK	
Q704	6-702-391-01	TRANSISITOR MP1620-OPY-MK	
Q753	6-702-390-01	TRANSISITOR MN2488-OPY-MK	
Q754	6-702-391-01	TRANSISITOR MP1620-OPY-MK	
Q803	6-702-390-01	TRANSISITOR MN2488-OPY-MK	
Q804	6-702-391-01	TRANSISITOR MP1620-OPY-MK	
Q853	6-702-390-01	TRANSISITOR MN2488-OPY-MK	
Q854	6-702-391-01	TRANSISITOR MP1620-OPY-MK	
⚠ T901	1-443-524-11	POWER TRANSFORMER	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

DCAC | DCDC CONVERTER

SECTION 8
ELECTRICAL PARTS LIST

Note:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . , uPA. . , µPA. . ,
  uPB. . : µPB. . , uPC. . , µPC. . ,
  uPD. . : µPD. .

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

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

The components identified by mark 🔒 contain confidential information.
Strictly follow the instructions whenever the components are repaired and/or replaced.

Ref. No.	Part No.	Description			Remark
		DCAC BOARD			
		**********			
		< CAPACITOR >			
C2001	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C2002	1-126-160-11	ELECT	1uF	20%	50V
C2003	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C2005	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C2006	1-126-160-11	ELECT	1uF	20%	50V
C2008	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C2010	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C2011	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C2012	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C2013	1-126-160-11	ELECT	1uF	20%	50V
C2014	1-124-465-00	ELECT	0.47uF	20%	50V
C2018	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C2205	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
		< DIODE >			
D2013	6-501-817-01	DIODE MA2J1110GLS0			
D2014	6-501-817-01	DIODE MA2J1110GLS0			
		< IC >			
IC2000	8-759-710-97	IC NJM4565M-D			
		< JACK >			
J2000	1-820-056-21	SMALL TYPE JACK (3.5MM) (AUTO CAL MIC)			
		< RESISTOR >			
R2000	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2001	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2003	1-216-833-11	METAL CHIP	10K	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
R2007	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2008	1-216-854-11	METAL CHIP	560K	5%	1/10W
R2010	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2015	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2016	1-216-835-11	METAL CHIP	15K	5%	1/10W
R2017	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2018	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R2019	1-216-825-11	METAL CHIP	2.2K	5%	1/10W

Ref. No.	Part No.	Description			Remark
		< LEAD >			
* TP2000	1-690-880-31	LEAD (WITH CONNECTOR)			
**********					
		DCDC CONVERTER BOARD			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C4002	1-128-549-11	ELECT	3300uF	20%	35V
C4003	1-128-959-21	ELECT	1000uF	20%	35V
C4004	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C4005	1-128-950-21	ELECT	1000uF	20%	16V
C4006	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C4007	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C4009	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C4011	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C4012	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C4100	1-128-959-21	ELECT	1000uF	20%	35V
C4102	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C4103	1-128-950-21	ELECT	1000uF	20%	16V
		< CONNECTOR >			
CN4001	1-778-226-21	CONNECTOR, BOARD TO BOARD 6P			
		< DIODE >			
⚠ D4001	8-719-081-52	DIODE D5SBA20-4003			
⚠ D4803	6-502-218-01	DIODE RB060M-30			
D4804	6-501-361-01	DIODE RB051LA-40TR			
		< FUSE HOLDER >			
FH4001	1-533-233-11	FUSE HOLDER			
FH4002	1-533-233-11	FUSE HOLDER			
FH4003	1-533-233-11	FUSE HOLDER			
FH4004	1-533-233-11	FUSE HOLDER			
		< IC >			
⚠ IC4001	8-759-474-09	IC SI-8050S-LF1101			
⚠ IC4100	8-759-659-28	IC SI-8033S			
		< COIL >			
L4000	1-456-545-11	COIL, CHOKE	100uH		
L4001	1-456-545-11	COIL, CHOKE	100uH		
L4100	1-456-545-11	COIL, CHOKE	100uH		

Ref. No.	Part No.	Description			Remark
L4102	1-456-721-11	COIL, CHOKE	100uH		
		< RESISTOR >			
R4000	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R4001	1-216-817-11	METAL CHIP	470	5%	1/10W
R4002	1-216-819-11	METAL CHIP	680	5%	1/10W
R4100	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R4101	1-216-817-11	METAL CHIP	470	5%	1/10W
R4102	1-216-819-11	METAL CHIP	680	5%	1/10W
**********					
	A-1433-593-A	DIGITAL AB BOARD, COMPLETE			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C1001	1-126-925-91	ELECT	470uF	20%	10V
C1002	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C1004	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1005	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1006	1-126-965-91	ELECT	22uF	20%	50V
C1007	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1008	1-165-722-11	ELECT	100uF	20%	10V
C1009	1-126-933-11	ELECT	100uF	20%	16V
C1010	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1011	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1012	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1016	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1017	1-126-964-11	ELECT	10uF	20%	50V
C1021	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C1022	1-135-372-31	ELECT	470uF	20%	10V
C1028	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1031	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C1032	1-135-372-31	ELECT	470uF	20%	10V
C1039	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1041	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1044	1-164-848-11	CERAMIC CHIP	8PF	0.5PF	50V
C1047	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1048	1-164-848-11	CERAMIC CHIP	8PF	0.5PF	50V
C1049	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1050	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1051	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1052	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1053	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1054	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1055	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1056	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1057	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1058	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1059	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1060	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1061	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1062	1-165-875-11	CERAMIC CHIP	10uF	10%	10V
C1063	1-126-933-11	ELECT	100uF	20%	16V
C1064	1-126-933-11	ELECT	100uF	20%	16V
C1065	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1066	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1067	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1068	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1069	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V

Ref. No.	Part No.	Description			Remark
C1070	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1072	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1073	1-126-923-91	ELECT	220uF	20%	10V
C1074	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1075	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C1076	1-126-933-11	ELECT	100uF	20%	16V
C1077	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1078	1-165-875-11	CERAMIC CHIP	10uF	10%	10V
C1079	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1080	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1081	1-126-960-11	ELECT	1uF	20%	50V
C1082	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1083	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1084	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1085	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1086	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1087	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1088	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1089	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1092	1-165-875-11	CERAMIC CHIP	10uF	10%	10V
C1093	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1094	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1095	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1096	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1097	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1098	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1099	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1100	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1101	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1102	1-126-964-11	ELECT	10uF	20%	50V
C1103	1-126-947-11	ELECT	47uF	20%	35V
C1104	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1105	1-165-875-11	CERAMIC CHIP	10uF	10%	10V
C1107	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1108	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1109	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1110	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1112	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1113	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1114	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1115	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1116	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1117	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1118	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1119	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1120	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1121	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1122	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1123	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1124	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1127	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1129	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1131	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1132	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1139	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1140	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1142	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1168	1-162-927-11	CERAMIC CHIP	100PF	5%	50V

DIGITAL AB

Ref. No.	Part No.	Description			Remark
C1171	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1172	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1179	1-126-933-11	ELECT	100uF	20%	16V
C1185	1-126-965-91	ELECT	22uF	20%	50V
C1187	1-165-722-11	ELECT	100uF	20%	10V
C1191	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1254	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1255	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1258	1-164-933-11	CERAMIC CHIP	220PF	10%	50V
C1301	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1302	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C1303	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1304	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C1305	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1306	1-126-947-11	ELECT	47uF	20%	35V
C1307	1-126-964-11	ELECT	10uF	20%	50V
C1309	1-164-856-81	CERAMIC CHIP	18PF	5%	50V
C1310	1-164-856-81	CERAMIC CHIP	18PF	5%	50V
C1312	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1313	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C1314	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1315	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1316	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1317	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1318	1-126-964-11	ELECT	10uF	20%	50V
C1319	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1320	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C1351	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1354	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1355	1-126-965-91	ELECT	22uF	20%	50V
C1358	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1359	1-126-916-11	ELECT	1000uF	20%	6.3V
C1361	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1362	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C1370	1-126-947-11	ELECT	47uF	20%	35V
C1401	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1402	1-126-964-11	ELECT	10uF	20%	50V
C1405	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1406	1-126-964-11	ELECT	10uF	20%	50V
C1411	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1413	1-164-934-11	CERAMIC CHIP	330PF	10%	50V
C1418	1-126-964-11	ELECT	10uF	20%	50V
C1419	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1420	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1422	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1423	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1428	1-126-964-11	ELECT	10uF	20%	50V
C1432	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1433	1-164-934-11	CERAMIC CHIP	330PF	10%	50V
C1450	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1451	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1453	1-164-934-11	CERAMIC CHIP	330PF	10%	50V
C1454	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1455	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1456	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1457	1-112-083-11	ELECT	100uF	20%	16V
C1458	1-126-964-11	ELECT	10uF	20%	50V
C1459	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1460	1-112-083-11	ELECT	100uF	20%	16V
C1461	1-112-083-11	ELECT	100uF	20%	16V
C1462	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C1463	1-164-934-11	CERAMIC CHIP	330PF	10%	50V
C1465	1-112-083-11	ELECT	100uF	20%	16V
C1468	1-126-964-11	ELECT	10uF	20%	50V
C1470	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1471	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1472	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1473	1-164-934-11	CERAMIC CHIP	330PF	10%	50V
C1474	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C1478	1-126-964-11	ELECT	10uF	20%	50V
C1488	1-126-964-11	ELECT	10uF	20%	50V
C1604	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1605	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1612	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1613	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1614	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1615	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1616	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1617	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1618	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1619	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1620	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1621	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1622	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1623	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1624	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1625	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1626	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1627	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1628	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1629	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1630	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1631	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1632	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1633	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1634	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1650	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1652	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1653	1-126-964-11	ELECT	10uF	20%	50V
C1654	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1659	1-126-960-11	ELECT	1uF	20%	50V
C1660	1-126-960-11	ELECT	1uF	20%	50V
C1667	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1701	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1704	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1907	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1909	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1913	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C1914	1-126-947-11	ELECT	47uF	20%	35V
C1915	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1923	1-126-933-11	ELECT	100uF	20%	16V

		< CONNECTOR >	
*	CNP504	1-564-509-11	PLUG, CONNECTOR 6P
	CNP505	1-779-799-11	PIN, CONNECTOR 9P
*	CNP512	1-564-506-11	PLUG, CONNECTOR 3P
		< CONNECTOR >	
	CNS501	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P
	CNS502	1-764-865-41	CONNECTOR, BOARD TO BOARD 13P

Ref. No.	Part No.	Description	Remark
CNS503	1-785-466-41	CONNECTOR, FFC/FPC 7P	
CNS508	1-784-770-11	CONNECTOR, FFC 9P	
CNS509	1-785-466-41	CONNECTOR, FFC/FPC 7P	
CNS510	1-784-778-11	CONNECTOR, FFC 17P	
CNS512	1-820-116-41	CONNECTOR, FFC/FPC 17P	
		< DIODE >	
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	
D1106	8-719-060-48	DIODE RB751V-40TE-17	
D1107	6-501-817-01	DIODE MA2J1110GLS0	
D1108	6-501-817-01	DIODE MA2J1110GLS0	
D1111	6-501-817-01	DIODE MA2J1110GLS0	
D1112	6-501-817-01	DIODE MA2J1110GLS0	
D1301	6-501-817-01	DIODE MA2J1110GLS0	
D1501	8-719-049-09	DIODE 1SS367-T3SONY	
D1502	8-719-049-09	DIODE 1SS367-T3SONY	
D1503	8-719-049-09	DIODE 1SS367-T3SONY	
D1504	8-719-049-09	DIODE 1SS367-T3SONY	
		< FERRITE BEAD >	
FB1053	1-469-139-21	FERRITE, EMI (SMD) (2012)	
FB1101	1-400-862-11	BEAD, FERRITE	
FB1102	1-400-862-11	BEAD, FERRITE	
FB1103	1-400-862-11	BEAD, FERRITE	
FB1104	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB1105	1-400-862-11	BEAD, FERRITE	
FB1106	1-400-862-11	BEAD, FERRITE	
FB1112	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB1113	1-400-862-11	BEAD, FERRITE	
FB1117	1-400-862-11	BEAD, FERRITE	
FB1302	1-400-862-11	BEAD, FERRITE	
FB1305	1-469-139-21	FERRITE, EMI (SMD) (2012)	
FB1306	1-469-139-21	FERRITE, EMI (SMD) (2012)	
FB1307	1-469-139-21	FERRITE, EMI (SMD) (2012)	
FB1308	1-400-862-11	BEAD, FERRITE	
FB1309	1-400-862-11	BEAD, FERRITE	
FB1310	1-400-862-11	BEAD, FERRITE	
FB1311	1-400-862-11	BEAD, FERRITE	
FB1350	1-400-862-11	BEAD, FERRITE	
FB1403	1-400-862-11	BEAD, FERRITE	
FB1405	1-400-862-11	BEAD, FERRITE	
FB1452	1-400-862-11	BEAD, FERRITE	
FB1453	1-400-862-11	BEAD, FERRITE	
FB1503	1-469-139-21	FERRITE, EMI (SMD) (2012)	
		< IC >	
⚠ IC1001	8-759-231-53	IC TA7805S	
⚠ IC1002	6-710-766-01	IC BD12KA5FP-E2	
IC1005	8-759-277-63	IC TC7W14FU (TE12R)	
IC1006	8-759-058-62	IC TC7S08FU (TE85R)	
IC1007	6-702-913-01	IC S-80929CNMC-G8ZT2G	
IC1008	8-759-524-10	IC TC74VHC157FT (EL)	
IC1009	6-709-759-01	IC ADSST-AVR-1115	
IC1010	6-807-917-01	IC MB91353APMT-G-117E1	
IC1012	6-707-745-01	IC SI-3050KM-TL	
⚠ IC1013	6-707-744-01	IC SI-3033KM-TL	
IC1014	8-759-447-77	IC TC7WH74FU (TE12R)	
IC1016	8-759-524-48	IC TC74VHC393FT (EL)	

Ref. No.	Part No.	Description	Remark
IC1017	8-759-680-48	IC TC7WH157FK (TE85R)	
⚠ IC1031	6-705-469-01	IC BA50BC0FP-E2	
IC1131	(Not supplied)	IC S-24CS16A0I-J8T1G	
IC1301	8-759-825-15	IC LC89056W-E	
IC1302	8-759-595-15	IC TC74ACT153F (EL)	
IC1303	8-759-096-87	IC TC7WU04FU (TE12R)	
IC1351	6-600-466-01	IC TORX147L (SONY) (DIGITAL OPTICAL SAT IN)	
IC1352	6-600-466-01	IC TORX147L (SONY) (TV OPTICAL IN)	
IC1401	6-710-554-01	IC PCM1808PWR	
IC1404	8-759-710-97	IC NJM4565M-D	
IC1405	8-759-710-97	IC NJM4565M-D	
IC1406	8-759-710-97	IC NJM4565M-D	
IC1452	6-711-875-01	IC WM8766GEDS/R	
⚠ IC1902	8-759-231-56	IC TA7809S	
⚠ IC1904	6-705-463-01	IC BA33BC0T	
		< JACK >	
J1301	1-793-446-21	JACK, PIN 1P (DIGITAL COAXIAL DVD IN)	
J1302	1-817-615-21	CONNECTOR, SQUARE TYPE (RECE) (DMPORT)	
		< JUMPER RESISTOR >	
JR1003	1-211-950-11	SHORT CHIP 0	
JR1005	1-216-864-11	SHORT CHIP 0	
		< TRANSISTOR >	
Q1103	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1104	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q1105	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q1106	6-551-699-01	TRANSISTOR ISA1602AM1TP-1EF	
		< RESISTOR >	
R1010	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1011	1-216-845-11	METAL CHIP 100K 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	
R1016	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1017	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1018	1-216-805-11	METAL CHIP 47 5% 1/10W	
R1019	1-216-864-11	SHORT CHIP 0	
R1021	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1022	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1023	1-216-813-11	METAL CHIP 220 5% 1/10W	
R1025	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1028	1-216-801-11	METAL CHIP 22 5% 1/10W	
R1029	1-216-801-11	METAL CHIP 22 5% 1/10W	
R1030	1-216-801-11	METAL CHIP 22 5% 1/10W	
R1031	1-216-801-11	METAL CHIP 22 5% 1/10W	
R1033	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1034	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1035	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1036	1-216-864-11	SHORT CHIP 0	
R1037	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1038	1-216-801-11	METAL CHIP 22 5% 1/10W	
R1039	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1040	1-216-801-11	METAL CHIP 22 5% 1/10W	
R1041	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1042	1-216-809-11	METAL CHIP 100 5% 1/10W	

Note: IC1131 cannot exchange with single. When IC1131 is damaged, exchange the entire mounted board.

DIGITAL AB

Ref. No.	Part No.	Description			Remark
R1043	1-216-801-11	METAL CHIP	22	5%	1/10W
R1044	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1046	1-216-801-11	METAL CHIP	22	5%	1/10W
R1047	1-216-801-11	METAL CHIP	22	5%	1/10W
R1048	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1049	1-216-817-11	METAL CHIP	470	5%	1/10W
R1050	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1053	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1054	1-216-817-11	METAL CHIP	470	5%	1/10W
R1062	1-216-801-11	METAL CHIP	22	5%	1/10W
R1063	1-216-809-11	METAL CHIP	100	5%	1/10W
R1066	1-216-809-11	METAL CHIP	100	5%	1/10W
R1067	1-216-809-11	METAL CHIP	100	5%	1/10W
R1068	1-216-801-11	METAL CHIP	22	5%	1/10W
R1069	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1070	1-216-864-11	SHORT CHIP	0		
R1071	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1072	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1073	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1076	1-216-809-11	METAL CHIP	100	5%	1/10W
R1077	1-216-809-11	METAL CHIP	100	5%	1/10W
R1078	1-216-809-11	METAL CHIP	100	5%	1/10W
R1080	1-216-864-11	SHORT CHIP	0		
R1083	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1084	1-216-864-11	SHORT CHIP	0		
R1088	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1097	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1100	1-216-864-11	SHORT CHIP	0		
R1101	1-216-864-11	SHORT CHIP	0		
R1102	1-216-864-11	SHORT CHIP	0		
R1103	1-216-864-11	SHORT CHIP	0		
R1104	1-216-864-11	SHORT CHIP	0		
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1106	1-216-809-11	METAL CHIP	100	5%	1/10W
R1107	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1109	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1111	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1112	1-216-809-11	METAL CHIP	100	5%	1/10W
R1115	1-216-809-11	METAL CHIP	100	5%	1/10W
R1116	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1117	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1118	1-216-809-11	METAL CHIP	100	5%	1/10W
R1119	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1120	1-216-864-11	SHORT CHIP	0		
R1122	1-216-809-11	METAL CHIP	100	5%	1/10W
R1123	1-216-809-11	METAL CHIP	100	5%	1/10W
R1124	1-216-809-11	METAL CHIP	100	5%	1/10W
R1125	1-216-809-11	METAL CHIP	100	5%	1/10W
R1126	1-216-809-11	METAL CHIP	100	5%	1/10W
R1127	1-216-809-11	METAL CHIP	100	5%	1/10W
R1128	1-216-809-11	METAL CHIP	100	5%	1/10W
R1129	1-216-809-11	METAL CHIP	100	5%	1/10W
R1130	1-216-809-11	METAL CHIP	100	5%	1/10W
R1131	1-216-809-11	METAL CHIP	100	5%	1/10W
R1132	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1133	1-216-813-11	METAL CHIP	220	5%	1/10W
R1134	1-216-809-11	METAL CHIP	100	5%	1/10W
R1135	1-216-809-11	METAL CHIP	100	5%	1/10W
R1136	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1137	1-216-809-11	METAL CHIP	100	5%	1/10W
R1138	1-216-809-11	METAL CHIP	100	5%	1/10W
R1139	1-216-864-11	SHORT CHIP	0		
R1140	1-216-809-11	METAL CHIP	100	5%	1/10W
R1141	1-216-864-11	SHORT CHIP	0		
R1142	1-216-809-11	METAL CHIP	100	5%	1/10W
R1144	1-216-801-11	METAL CHIP	22	5%	1/10W
R1146	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1147	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1148	1-216-803-11	METAL CHIP	33	5%	1/10W
R1151	1-216-864-11	SHORT CHIP	0		
R1155	1-216-809-11	METAL CHIP	100	5%	1/10W
R1156	1-216-864-11	SHORT CHIP	0		
R1157	1-216-864-11	SHORT CHIP	0		
R1158	1-216-809-11	METAL CHIP	100	5%	1/10W
R1159	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1160	1-216-809-11	METAL CHIP	100	5%	1/10W
R1161	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1162	1-216-809-11	METAL CHIP	100	5%	1/10W
R1163	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1164	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1168	1-216-809-11	METAL CHIP	100	5%	1/10W
R1174	1-216-809-11	METAL CHIP	100	5%	1/10W
R1175	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1179	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1180	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1181	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1182	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1186	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1187	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1191	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1192	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1194	1-216-864-11	SHORT CHIP	0		
R1196	1-216-809-11	METAL CHIP	100	5%	1/10W
R1197	1-216-809-11	METAL CHIP	100	5%	1/10W
R1199	1-216-809-11	METAL CHIP	100	5%	1/10W
R1200	1-216-809-11	METAL CHIP	100	5%	1/10W
R1201	1-216-809-11	METAL CHIP	100	5%	1/10W
R1202	1-216-809-11	METAL CHIP	100	5%	1/10W
R1203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1253	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1260	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1261	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1301	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1303	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1304	1-216-809-11	METAL CHIP	100	5%	1/10W
R1305	1-216-817-11	METAL CHIP	470	5%	1/10W
R1306	1-216-801-11	METAL CHIP	22	5%	1/10W
R1307	1-216-809-11	METAL CHIP	100	5%	1/10W
R1308	1-216-809-11	METAL CHIP	100	5%	1/10W
R1310	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1311	1-216-809-11	METAL CHIP	100	5%	1/10W
R1313	1-216-809-11	METAL CHIP	100	5%	1/10W
R1314	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1318	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1319	1-216-817-11	METAL CHIP	470	5%	1/10W
R1321	1-216-864-11	SHORT CHIP	0		
R1323	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1324	1-216-809-11	METAL CHIP	100	5%	1/10W
R1325	1-216-820-11	METAL CHIP	820	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1326	1-216-809-11	METAL CHIP	100	5%	1/10W
R1327	1-216-809-11	METAL CHIP	100	5%	1/10W
R1350	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1351	1-216-809-11	METAL CHIP	100	5%	1/10W
R1352	1-216-864-11	SHORT CHIP	0		
R1353	1-216-864-11	SHORT CHIP	0		
R1354	1-216-809-11	METAL CHIP	100	5%	1/10W
R1355	1-218-285-11	METAL CHIP	75	5%	1/10W
R1356	1-216-817-11	METAL CHIP	470	5%	1/10W
R1357	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1358	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1359	1-216-809-11	METAL CHIP	100	5%	1/10W
R1360	1-216-813-11	METAL CHIP	220	5%	1/10W
R1362	1-216-855-11	METAL CHIP	680K	5%	1/10W
R1366	1-216-809-11	METAL CHIP	100	5%	1/10W
R1367	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1368	1-216-864-11	SHORT CHIP	0		
R1401	1-216-809-11	METAL CHIP	100	5%	1/10W
R1414	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1416	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1424	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1425	1-216-864-11	SHORT CHIP	0		
R1426	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1427	1-216-864-11	SHORT CHIP	0		
R1434	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1435	1-216-864-11	SHORT CHIP	0		
R1436	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1447	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1454	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1455	1-216-864-11	SHORT CHIP	0		
R1456	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1463	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1464	1-216-864-11	SHORT CHIP	0		
R1466	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1468	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1473	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1474	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1476	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1485	1-216-864-11	SHORT CHIP	0		
R1486	1-216-821-11	METAL CHIP	1K	5%	1/10W
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
R1496	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1497	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1498	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1508	1-216-864-11	SHORT CHIP	0		
R1509	1-216-864-11	SHORT CHIP	0		
R1510	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1511	1-216-838-11	METAL CHIP	27K	5%	1/10W
R1512	1-216-813-11	METAL CHIP	220	5%	1/10W
R1513	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1514	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1515	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1530	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1556	1-216-815-11	METAL CHIP	330	5%	1/10W
R1635	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1636	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1643	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1644	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1645	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1647	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1648	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1801	1-216-809-11	METAL CHIP	100	5%	1/10W
R1802	1-216-809-11	METAL CHIP	100	5%	1/10W
R1804	1-216-809-11	METAL CHIP	100	5%	1/10W
R1806	1-216-809-11	METAL CHIP	100	5%	1/10W
R1807	1-216-809-11	METAL CHIP	100	5%	1/10W
R1940	1-216-864-11	SHORT CHIP	0		
R1949	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1964	1-216-864-11	SHORT CHIP	0		
		< VIBRATOR >			
X1101	1-781-893-21	VIBRATOR, CERAMIC (CHIP TYPE) (12.5MHz)			
X1301	1-795-126-21	VIBRATOR, CRYSTAL (12.288MHz)			
X1302	1-795-807-11	VIBRATOR, CRYSTAL (25MHz)			
**********					
	A-1433-584-A	DISPLAY BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C110	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C111	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C112	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C114	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C115	1-126-964-11	ELECT	10uF	20%	50V
C144	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C145	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C147	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C148	1-126-964-11	ELECT	10uF	20%	50V
C149	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C160	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C162	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C164	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C165	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CN104	1-691-746-11	CONNECTOR, BOARD TO BOARD 5P			
* CNP106	1-564-517-11	PLUG, CONNECTOR 2P			
CNS110	1-784-778-11	CONNECTOR, FFC 17P			
		< FLUORESCENT INDICATOR TUBE >			
FL101	1-519-927-11	VACUUM FLOURESCENT DISPLAY			
		< IC >			
IC100	6-701-729-01	IC PT6315			
IC101	8-759-157-94	IC TC74ACT08F (EL)			
IC103	6-600-349-31	IC NJL24H400A			
		< RESISTOR >			
R101	1-216-813-11	METAL CHIP	220	5%	1/10W
R102	1-216-815-11	METAL CHIP	330	5%	1/10W
R103	1-216-817-11	METAL CHIP	470	5%	1/10W
R104	1-216-819-11	METAL CHIP	680	5%	1/10W
R105	1-216-821-11	METAL CHIP	1K	5%	1/10W
R106	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R107	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R108	1-216-813-11	METAL CHIP	220	5%	1/10W
R109	1-216-815-11	METAL CHIP	330	5%	1/10W
R110	1-216-817-11	METAL CHIP	470	5%	1/10W

DISPLAY **HDMI**

Ref. No.	Part No.	Description				Remark
R115	1-216-809-11	METAL CHIP	100	5%	1/10W	
R116	1-216-809-11	METAL CHIP	100	5%	1/10W	
R117	1-216-809-11	METAL CHIP	100	5%	1/10W	
R118	1-216-844-11	METAL CHIP	82K	5%	1/10W	
R119	1-216-809-11	METAL CHIP	100	5%	1/10W	
⚠ R120	1-249-393-91	CARBON	10	5%	1/4W	F
R180	1-216-864-11	SHORT CHIP	0			
R181	1-216-864-11	SHORT CHIP	0			
R182	1-216-864-11	SHORT CHIP	0			
⚠ R197	1-249-386-91	CARBON	2.7	5%	1/4W	F
⚠ R198	1-249-386-91	CARBON	2.7	5%	1/4W	F
		< ROTARY ENCODER >				
RV101	1-418-817-31	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-1438-372-A	HDMI BOARD, COMPLETE (for SERVICE)				
		**********				
		< CAPACITOR >				
C3501	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3502	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3503	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3504	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3505	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3508	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3509	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3510	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3511	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3512	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3514	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3516	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3517	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3518	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3519	1-126-210-21	ELECT CHIP	220uF	20%	4V	
C3520	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3521	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3522	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3523	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3524	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3525	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C3526	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	

Ref. No.	Part No.	Description			Remark
C3527	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3529	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3530	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3531	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3533	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3534	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3535	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3536	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3537	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3538	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C3539	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3540	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C3541	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3542	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3543	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3544	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3545	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3547	1-100-053-21	ELECT CHIP	220uF	20%	6.3V
C3548	1-126-210-21	ELECT CHIP	220uF	20%	4V
C3549	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3550	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3551	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3552	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3553	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3555	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3556	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3557	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3558	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3561	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3562	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3563	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3564	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3566	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3567	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3568	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3569	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3570	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3571	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C3572	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C3573	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C3574	1-126-210-21	ELECT CHIP	220uF	20%	4V
C3575	1-100-053-21	ELECT CHIP	220uF	20%	6.3V
C3576	1-165-667-21	ELECT CHIP	100uF	20%	6.3V
C3579	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3580	1-165-667-21	ELECT CHIP	100uF	20%	6.3V
C3584	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C3585	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C3586	1-128-995-21	ELECT CHIP	100uF	20%	10V
C3590	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C3591	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3593	1-128-994-21	ELECT CHIP	47uF	20%	10V
C3594	1-128-994-21	ELECT CHIP	47uF	20%	10V
C3596	1-128-994-21	ELECT CHIP	47uF	20%	10V
C3597	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3615	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3616	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3617	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3618	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3619	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3620	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark
C3621	1-112-791-11	ELECT CHIP	100uF	20%	16V
C3625	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C3627	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C3630	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3631	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3632	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3633	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3634	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3635	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C3643	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C3644	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
		< CONNECTOR >			
CN3501	1-820-735-11	HDMI CONNECTOR (HDMI SAT IN)			
CN3502	1-820-735-11	HDMI CONNECTOR (HDMI DVD IN)			
CN3503	1-820-735-11	HDMI CONNECTOR (HDMI BD IN)			
CN3504	1-820-735-11	HDMI CONNECTOR (HDMI OUT)			
CN3509	1-779-993-11	PIN, CONNECTOR (PWB) 5P			
CN3510	1-784-859-51	CONNECTOR, FFC (LIF (NON-ZIF)) 7P			
CN3511	1-820-116-41	CONNECTOR, FFC/FPC 17P			
		< DIODE >			
D3501	6-501-817-01	DIODE MA2J1110GLS0			
D3502	6-501-817-01	DIODE MA2J1110GLS0			
D3511	6-501-817-01	DIODE MA2J1110GLS0			
D3512	6-501-817-01	DIODE MA2J1110GLS0			
D3513	6-501-817-01	DIODE MA2J1110GLS0			
		< EARTH TERMINAL >			
ET3503	1-780-318-11	TERMINAL			
		< FERRITE BEAD >			
FB3501	1-414-234-22	INDUCTOR, FERRITE BEAD			
FB3502	1-414-234-22	INDUCTOR, FERRITE BEAD			
FB3503	1-414-234-22	INDUCTOR, FERRITE BEAD			
FB3504	1-414-234-22	INDUCTOR, FERRITE BEAD			
FB3505	1-414-234-22	INDUCTOR, FERRITE BEAD			
FB3506	1-414-234-22	INDUCTOR, FERRITE BEAD			
FB3508	1-414-234-22	INDUCTOR, FERRITE BEAD			
FB3509	1-469-152-11	FERRITE, EMI (SMD) (2012)			
FB3510	1-414-234-22	INDUCTOR, FERRITE BEAD			
FB3511	1-414-234-22	INDUCTOR, FERRITE BEAD			
FB3512	1-414-234-22	INDUCTOR, FERRITE BEAD			
FB3513	1-414-234-22	INDUCTOR, FERRITE BEAD			
FB3514	1-414-234-22	INDUCTOR, FERRITE BEAD			
		< IC >			
IC3501	8-759-389-26	IC 74LCX08MTCX			
IC3503	6-710-819-01	IC TMDS341APFCR			
IC3504	8-759-596-39	IC SN74LV4052APWR			
IC3507	6-708-758-01	IC PCA9517DP.118			
IC3509	6-704-001-01	IC BR24L02F-WSE2			
IC3511	(Not supplied)	IC SII9011CLU			
IC3513	(Not supplied)	IC SII9030CTU-7			
IC3516	6-705-337-01	IC TK11150CSCL-G			
IC3519	6-807-915-01	IC M30620FCPGP-RSX01			
IC3521	8-759-596-39	IC SN74LV4052APWR			
⚠ IC3526	6-707-744-01	IC SI-3033KM-TL			
⚠ IC3527	6-707-744-01	IC SI-3033KM-TL			
IC3528	8-759-832-05	IC BA18BC0FP-E2			

Note: IC3511 and IC3513 cannot exchange with single. When IC3511 and IC3513 are damaged, exchange the entire mounted board.

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q3504	6-550-014-01	FET	SSM6N15FU (TE85R)		
Q3505	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q3506	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q3507	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
		< RESISTOR >			
R3500	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3502	1-216-864-11	SHORT CHIP	0		
R3504	1-216-864-11	SHORT CHIP	0		
R3506	1-216-864-11	SHORT CHIP	0		
R3509	1-216-805-11	METAL CHIP	47	5%	1/10W
R3511	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3512	1-216-805-11	METAL CHIP	47	5%	1/10W
R3513	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3514	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3519	1-216-864-11	SHORT CHIP	0		
R3521	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3524	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3525	1-218-844-11	METAL CHIP	750	0.5%	1/10W
R3526	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W
R3527	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3528	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3532	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3533	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3534	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3535	1-216-864-11	SHORT CHIP	0		
R3536	1-216-864-11	SHORT CHIP	0		
R3541	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3542	1-216-864-11	SHORT CHIP	0		
R3544	1-216-805-11	METAL CHIP	47	5%	1/10W
R3545	1-216-805-11	METAL CHIP	47	5%	1/10W
R3546	1-216-857-11	METAL CHIP	1M	5%	1/10W
R3548	1-216-803-11	METAL CHIP	33	5%	1/10W
R3549	1-216-809-11	METAL CHIP	100	5%	1/10W
R3550	1-216-809-11	METAL CHIP	100	5%	1/10W
R3551	1-216-809-11	METAL CHIP	100	5%	1/10W
R3552	1-216-809-11	METAL CHIP	100	5%	1/10W
R3554	1-216-809-11	METAL CHIP	100	5%	1/10W
R3556	1-216-809-11	METAL CHIP	100	5%	1/10W
R3557	1-216-805-11	METAL CHIP	47	5%	1/10W
R3558	1-216-864-11	SHORT CHIP	0		
R3562	1-216-864-11	SHORT CHIP	0		
R3563	1-216-809-11	METAL CHIP	100	5%	1/10W
R3564	1-218-285-11	METAL CHIP	75	5%	1/10W
R3565	1-216-805-11	METAL CHIP	47	5%	1/10W
R3566	1-218-285-11	METAL CHIP	75	5%	1/10W
R3567	1-218-285-11	METAL CHIP	75	5%	1/10W
R3570	1-216-809-11	METAL CHIP	100	5%	1/10W
R3576	1-216-805-11	METAL CHIP	47	5%	1/10W
R3577	1-216-805-11	METAL CHIP	47	5%	1/10W
R3578	1-216-809-11	METAL CHIP	100	5%	1/10W
R3579	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3580	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R3581	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3582	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R3583	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3584	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3585	1-216-864-11	SHORT CHIP	0		

HDMI **HEADPHONE** **MAIN**

Ref. No.	Part No.	Description			Remark
R3586	1-216-864-11	SHORT CHIP	0		
R3587	1-216-864-11	SHORT CHIP	0		
R3588	1-216-864-11	SHORT CHIP	0		
R3589	1-216-864-11	SHORT CHIP	0		
R3590	1-216-864-11	SHORT CHIP	0		
R3591	1-216-864-11	SHORT CHIP	0		
R3592	1-216-864-11	SHORT CHIP	0		
R3593	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3594	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3595	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3597	1-216-864-11	SHORT CHIP	0		
R3598	1-216-864-11	SHORT CHIP	0		
R3599	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R3600	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R3601	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3602	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3603	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3604	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3605	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3608	1-216-805-11	METAL CHIP	47	5%	1/10W
R3609	1-216-805-11	METAL CHIP	47	5%	1/10W
R3610	1-216-805-11	METAL CHIP	47	5%	1/10W
R3611	1-216-805-11	METAL CHIP	47	5%	1/10W
R3612	1-216-805-11	METAL CHIP	47	5%	1/10W
R3613	1-216-805-11	METAL CHIP	47	5%	1/10W
R3614	1-216-805-11	METAL CHIP	47	5%	1/10W
R3615	1-216-805-11	METAL CHIP	47	5%	1/10W
R3616	1-216-805-11	METAL CHIP	47	5%	1/10W
R3621	1-216-805-11	METAL CHIP	47	5%	1/10W
R3622	1-216-805-11	METAL CHIP	47	5%	1/10W
R3623	1-216-805-11	METAL CHIP	47	5%	1/10W
R3624	1-216-801-11	METAL CHIP	22	5%	1/10W
R3625	1-216-801-11	METAL CHIP	22	5%	1/10W
R3633	1-216-864-11	SHORT CHIP	0		
R3634	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3639	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3642	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3645	1-216-809-11	METAL CHIP	100	5%	1/10W
R3652	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R3653	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R3654	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3655	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3660	1-216-864-11	SHORT CHIP	0		
R3661	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3662	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3663	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3676	1-216-809-11	METAL CHIP	100	5%	1/10W
R3700	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3711	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3712	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3713	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3714	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3715	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3716	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3741	1-216-817-11	METAL CHIP	470	5%	1/10W
R3744	1-216-805-11	METAL CHIP	47	5%	1/10W
R3745	1-216-805-11	METAL CHIP	47	5%	1/10W
R3747	1-216-864-11	SHORT CHIP	0		
R3748	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3749	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3750	1-216-805-11	METAL CHIP	47	5%	1/10W
R3775	1-216-797-11	METAL CHIP	10	5%	1/10W
R3776	1-216-797-11	METAL CHIP	10	5%	1/10W
R3779	1-216-805-11	METAL CHIP	47	5%	1/10W
R3780	1-216-805-11	METAL CHIP	47	5%	1/10W
R3784	1-216-864-11	SHORT CHIP	0		
R3788	1-216-864-11	SHORT CHIP	0		
R3790	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3791	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3793	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3796	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3797	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3798	1-216-864-11	SHORT CHIP	0		
R3799	1-216-805-11	METAL CHIP	47	5%	1/10W

< COMPOSITION CIRCUIT BLOCK >

*	RB3501	1-234-723-11	RES, NETWORK 75 (1005X4)			
*	RB3502	1-234-723-11	RES, NETWORK 75 (1005X4)			
*	RB3503	1-234-723-11	RES, NETWORK 75 (1005X4)			
*	RB3504	1-234-723-11	RES, NETWORK 75 (1005X4)			
*	RB3505	1-234-723-11	RES, NETWORK 75 (1005X4)			
*	RB3506	1-234-723-11	RES, NETWORK 75 (1005X4)			

< VIBRATOR >

	X3501	1-813-570-21	VIBRATOR, CRYSTAL (28.322MHz)		
	X3502	1-795-244-11	VIBRATOR, CERAMIC (10MHz)		

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HEADPHONE BOARD
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< CAPACITOR >

	C791	1-100-566-91	CERAMIC CHIP	0.1uF	10% 25V

< CONNECTOR >

*	CNP790	1-564-507-11	PLUG, CONNECTOR 4P		

< JACK >

	J790	1-815-314-21	JACK (PHONES)		

< LEAD >

*	TP790	1-690-880-31	LEAD (WITH CONNECTOR)		

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		A-1433-569-A	MAIN BOARD, COMPLETE		

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		7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3		

< CAPACITOR >

	C320	1-126-923-91	ELECT	220uF	20% 10V
	C325	1-126-964-11	ELECT	10uF	20% 50V
	C335	1-126-947-11	ELECT	47uF	20% 35V
	C350	1-137-980-91	CERAMIC CHIP	0.47uF	10% 50V
	C351	1-126-933-11	ELECT	100uF	20% 16V
	C352	1-137-980-91	CERAMIC CHIP	0.47uF	10% 50V
	C353	1-126-933-11	ELECT	100uF	20% 16V
	C400	1-162-966-11	CERAMIC CHIP	0.0022uF	10% 50V
	C403	1-162-966-11	CERAMIC CHIP	0.0022uF	10% 50V
	C405	1-162-966-11	CERAMIC CHIP	0.0022uF	10% 50V

Ref. No.	Part No.	Description			Remark
C408	1-126-963-11	ELECT	4.7uF	20%	50V
C409	1-126-963-11	ELECT	4.7uF	20%	50V
C430	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C431	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C449	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C450	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C458	1-126-963-11	ELECT	4.7uF	20%	50V
C459	1-126-963-11	ELECT	4.7uF	20%	50V
C471	1-126-963-11	ELECT	4.7uF	20%	50V
C487	1-112-089-11	ELECT	47uF	20%	25V
C488	1-112-089-11	ELECT	47uF	20%	25V
C489	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C499	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C500	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C545	1-128-582-11	ELECT	10uF	20%	100V
C546	1-128-582-11	ELECT	10uF	20%	100V
C644	1-126-964-11	ELECT	10uF	20%	50V
C651	1-126-964-11	ELECT	10uF	20%	50V
C652	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C653	1-102-233-00	CERAMIC	33PF	10%	500V
C654	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C655	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C656	1-126-923-91	ELECT	220uF	20%	10V
C657	1-126-947-11	ELECT	47uF	20%	35V
C658	1-162-815-11	CERAMIC	47PF	5%	500V
C659	1-162-815-11	CERAMIC	47PF	5%	500V
C661	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C670	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C671	1-126-964-11	ELECT	10uF	20%	50V
C675	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C679	1-136-157-00	FILM	0.022uF	5%	50V
C701	1-126-964-11	ELECT	10uF	20%	50V
C702	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C703	1-102-233-00	CERAMIC	33PF	10%	500V
C704	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C705	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C706	1-126-923-91	ELECT	220uF	20%	10V
C707	1-126-947-11	ELECT	47uF	20%	35V
C708	1-162-815-11	CERAMIC	47PF	5%	500V
C709	1-162-815-11	CERAMIC	47PF	5%	500V
C711	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C720	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C721	1-126-964-11	ELECT	10uF	20%	50V
C725	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C729	1-136-157-00	FILM	0.022uF	5%	50V
C744	1-126-964-11	ELECT	10uF	20%	50V
C751	1-126-964-11	ELECT	10uF	20%	50V
C752	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C753	1-102-233-00	CERAMIC	33PF	10%	500V
C754	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C755	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C756	1-126-923-91	ELECT	220uF	20%	10V
C757	1-126-947-11	ELECT	47uF	20%	35V
C758	1-162-815-11	CERAMIC	47PF	5%	500V
C759	1-162-815-11	CERAMIC	47PF	5%	500V
C761	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C770	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C771	1-126-964-11	ELECT	10uF	20%	50V
C775	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C779	1-136-157-00	FILM	0.022uF	5%	50V

Ref. No.	Part No.	Description			Remark
C801	1-126-964-11	ELECT	10uF	20%	50V
C802	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C803	1-102-233-00	CERAMIC	33PF	10%	500V
C804	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C805	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C806	1-126-923-91	ELECT	220uF	20%	10V
C807	1-126-947-11	ELECT	47uF	20%	35V
C808	1-162-815-11	CERAMIC	47PF	5%	500V
C809	1-162-815-11	CERAMIC	47PF	5%	500V
C811	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C820	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C821	1-126-964-11	ELECT	10uF	20%	50V
C829	1-136-157-00	FILM	0.022uF	5%	50V
C844	1-126-964-11	ELECT	10uF	20%	50V
C851	1-126-964-11	ELECT	10uF	20%	50V
C852	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C853	1-102-233-00	CERAMIC	33PF	10%	500V
C854	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C855	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C856	1-126-923-91	ELECT	220uF	20%	10V
C857	1-126-947-11	ELECT	47uF	20%	35V
C858	1-162-815-11	CERAMIC	47PF	5%	500V
C859	1-162-815-11	CERAMIC	47PF	5%	500V
C861	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C870	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C871	1-126-964-11	ELECT	10uF	20%	50V
C879	1-136-157-00	FILM	0.022uF	5%	50V
C900	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C904	1-126-936-11	ELECT	3300uF	20%	16V
C920	1-135-851-21	MYLAR	0.22uF		100V
C921	1-135-851-21	MYLAR	0.22uF		100V
C922	1-165-946-11	ELECT (BLOCK)	6800uF	20%	71V
C923	1-165-946-11	ELECT (BLOCK)	6800uF	20%	71V
C930	1-119-772-91	ELECT	47uF	20%	35V
C931	1-126-947-11	ELECT	47uF	20%	35V
C932	1-126-947-11	ELECT	47uF	20%	35V
C933	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C940	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C941	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
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 >			
CNP410	1-573-845-11	CONNECTOR, BOARD TO BOARD 13P			
CNP411	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P			
CNP430	1-779-978-11	PIN, CONNECTOR 3P			
* CNP500	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP912	1-564-510-11	PLUG, CONNECTOR 7P			
* CNP921	1-564-687-11	PIN, CONNECTOR (3.96mm PITCH) 3P			
* CNP930	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP940	1-564-509-11	PLUG, CONNECTOR 6P			

MAIN

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D301	6-501-817-01	DIODE MA2J1110GLS0	
D320	6-501-817-01	DIODE MA2J1110GLS0	
D325	6-501-817-01	DIODE MA2J1110GLS0	
D326	6-501-817-01	DIODE MA2J1110GLS0	
D327	6-501-817-01	DIODE MA2J1110GLS0	
D335	6-501-712-01	DIODE MAZ8030G0LS0	
D350	6-501-817-01	DIODE MA2J1110GLS0	
D352	8-719-053-18	DIODE 1SR154-400TE-25	
D355	6-501-817-01	DIODE MA2J1110GLS0	
D360	6-501-817-01	DIODE MA2J1110GLS0	
D375	6-501-817-01	DIODE MA2J1110GLS0	
D500	6-501-787-01	DIODE MAZ8220GMLS0	
D501	6-501-817-01	DIODE MA2J1110GLS0	
D661	6-501-817-01	DIODE MA2J1110GLS0	
D670	6-501-817-01	DIODE MA2J1110GLS0	
D675	6-501-817-01	DIODE MA2J1110GLS0	
D711	6-501-817-01	DIODE MA2J1110GLS0	
D720	6-501-817-01	DIODE MA2J1110GLS0	
D725	6-501-817-01	DIODE MA2J1110GLS0	
D761	6-501-817-01	DIODE MA2J1110GLS0	
D770	6-501-817-01	DIODE MA2J1110GLS0	
D775	6-501-817-01	DIODE MA2J1110GLS0	
D811	6-501-817-01	DIODE MA2J1110GLS0	
D820	6-501-817-01	DIODE MA2J1110GLS0	
D861	6-501-817-01	DIODE MA2J1110GLS0	
D870	6-501-817-01	DIODE MA2J1110GLS0	
⚠ D921	8-719-081-52	DIODE D5SBA20-4003	
⚠ D930	6-500-295-01	DIODE PTZ-TE25-5.6B	
⚠ D931	6-501-785-01	DIODE MAZ8200GMLS0	
⚠ D940	8-719-053-18	DIODE 1SR154-400TE-25	
⚠ D941	8-719-053-18	DIODE 1SR154-400TE-25	
⚠ D942	8-719-053-18	DIODE 1SR154-400TE-25	
⚠ D943	8-719-053-18	DIODE 1SR154-400TE-25	
		< EARTH TERMINAL >	
ET902	1-537-738-21	TERMINAL, GROUND	
		< IC >	
⚠ IC350	8-759-071-48	IC TA7807S	
⚠ IC352	8-759-373-94	IC TA79007SB	
IC400	6-711-760-01	IC BD3471KS2	
IC565	8-759-710-97	IC NJM4565M-D	
IC600	6-700-943-01	IC uPC2581V-S	
IC700	6-700-943-01	IC uPC2581V-S	
IC800	6-700-943-01	IC uPC2581V-S	
IC3002	8-759-710-97	IC NJM4565M-D	
		< JACK >	
J401	1-774-411-11	JACK, PIN 6P (SA-CD/CD/CD-R IN/OUT, TV IN)	
J403	1-794-981-11	JACK, PIN 4P (SAT/DVD AUDIO IN)	
J404	1-794-981-11	JACK, PIN 4P (VIDEO 1 AUDIO IN/OUT)	
J405	1-774-785-11	JACK, PIN 1P (SUB WOOFER AUDIO OUT)	
		< JUMPER RESISTOR >	
JR320	1-216-864-11	SHORT CHIP 0	
JR321	1-216-864-11	SHORT CHIP 0	
JR322	1-216-864-11	SHORT CHIP 0	
JR340	1-216-864-11	SHORT CHIP 0	
JR406	1-216-864-11	SHORT CHIP 0	
JR605	1-216-864-11	SHORT CHIP 0	
JR606	1-216-864-11	SHORT CHIP 0	
JR607	1-216-864-11	SHORT CHIP 0	
JR702	1-216-864-11	SHORT CHIP 0	
		< COIL >	
L678	1-420-872-52	COIL, AIR-CORE	
L728	1-420-872-52	COIL, AIR-CORE	
L778	1-420-872-52	COIL, AIR-CORE	
L828	1-420-872-52	COIL, AIR-CORE	
L878	1-420-872-52	COIL, AIR-CORE	
		< TRANSISTOR >	
Q301	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q320	8-729-216-31	TRANSISTOR 2SA1163-G	
Q321	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q325	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q350	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q355	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q360	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q375	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q500	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q501	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q651	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q652	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q661	8-729-216-31	TRANSISTOR 2SA1163-G	
Q662	8-729-216-31	TRANSISTOR 2SA1163-G	
Q670	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q702	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q711	8-729-216-31	TRANSISTOR 2SA1163-G	
Q712	8-729-216-31	TRANSISTOR 2SA1163-G	
Q720	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q751	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q752	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q761	8-729-216-31	TRANSISTOR 2SA1163-G	
Q762	8-729-216-31	TRANSISTOR 2SA1163-G	
Q770	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q801	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q802	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q811	8-729-216-31	TRANSISTOR 2SA1163-G	
Q812	8-729-216-31	TRANSISTOR 2SA1163-G	
Q820	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q851	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q852	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q861	8-729-216-31	TRANSISTOR 2SA1163-G	
Q862	8-729-216-31	TRANSISTOR 2SA1163-G	
Q870	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
⚠ Q930	8-729-140-99	TRANSISTOR 2SB734-34	
		< RESISTOR >	
R301	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
⚠ R302	1-249-405-91	CARBON 100 5% 1/4W	F
⚠ R303	1-249-405-91	CARBON 100 5% 1/4W	F
R304	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R320	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R325	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W	
R326	1-216-840-11	METAL CHIP 39K 5% 1/10W	
R327	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R328	1-216-821-11	METAL CHIP 1K 5% 1/10W	

Ref. No.	Part No.	Description			Remark
R335	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R336	1-216-864-11	SHORT CHIP	0		
R337	1-216-837-11	METAL CHIP	22K	5%	1/10W
R350	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
⚠ R351	1-249-399-91	CARBON	33	5%	1/4W F
⚠ R352	1-249-401-91	CARBON	47	5%	1/4W F
R353	1-216-841-11	METAL CHIP	47K	5%	1/10W
R355	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠ R356	1-249-399-91	CARBON	33	5%	1/4W F
⚠ R357	1-249-401-91	CARBON	47	5%	1/4W F
R358	1-216-841-11	METAL CHIP	47K	5%	1/10W
R360	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠ R361	1-249-399-91	CARBON	33	5%	1/4W F
⚠ R362	1-249-401-91	CARBON	47	5%	1/4W F
R363	1-216-841-11	METAL CHIP	47K	5%	1/10W
R375	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
⚠ R376	1-249-399-91	CARBON	33	5%	1/4W F
⚠ R377	1-249-401-91	CARBON	47	5%	1/4W F
R378	1-216-841-11	METAL CHIP	47K	5%	1/10W
⚠ R392	1-215-891-51	METAL OXIDE	680	5%	2W F
⚠ R393	1-215-891-51	METAL OXIDE	680	5%	2W F
R401	1-216-821-11	METAL CHIP	1K	5%	1/10W
R402	1-216-821-11	METAL CHIP	1K	5%	1/10W
R403	1-216-821-11	METAL CHIP	1K	5%	1/10W
R404	1-216-821-11	METAL CHIP	1K	5%	1/10W
R405	1-216-821-11	METAL CHIP	1K	5%	1/10W
R408	1-216-821-11	METAL CHIP	1K	5%	1/10W
R409	1-216-821-11	METAL CHIP	1K	5%	1/10W
R430	1-216-821-11	METAL CHIP	1K	5%	1/10W
R431	1-216-821-11	METAL CHIP	1K	5%	1/10W
R449	1-216-821-11	METAL CHIP	1K	5%	1/10W
R450	1-216-821-11	METAL CHIP	1K	5%	1/10W
R451	1-216-821-11	METAL CHIP	1K	5%	1/10W
R452	1-216-821-11	METAL CHIP	1K	5%	1/10W
R453	1-216-821-11	METAL CHIP	1K	5%	1/10W
R454	1-216-821-11	METAL CHIP	1K	5%	1/10W
R455	1-216-821-11	METAL CHIP	1K	5%	1/10W
R458	1-216-821-11	METAL CHIP	1K	5%	1/10W
R459	1-216-821-11	METAL CHIP	1K	5%	1/10W
R466	1-216-821-11	METAL CHIP	1K	5%	1/10W
R467	1-216-845-11	METAL CHIP	100K	5%	1/10W
R470	1-216-841-11	METAL CHIP	47K	5%	1/10W
⚠ R487	1-249-385-91	CARBON	2.2	5%	1/4W F
⚠ R488	1-249-385-91	CARBON	2.2	5%	1/4W F
R501	1-216-837-11	METAL CHIP	22K	5%	1/10W
R502	1-216-853-11	METAL CHIP	470K	5%	1/10W
R503	1-216-833-11	METAL CHIP	10K	5%	1/10W
R504	1-216-833-11	METAL CHIP	10K	5%	1/10W
R505	1-216-833-11	METAL CHIP	10K	5%	1/10W
R506	1-216-839-11	METAL CHIP	33K	5%	1/10W
R507	1-216-849-11	METAL CHIP	220K	5%	1/10W
⚠ R510	1-215-889-51	METAL OXIDE	330	5%	2W F
⚠ R511	1-215-886-51	METAL OXIDE	100	5%	2W F
⚠ R545	1-249-381-91	CARBON	1	5%	1/4W F
⚠ R546	1-249-381-91	CARBON	1	5%	1/4W F
R600	1-216-864-11	SHORT CHIP	0		
R602	1-216-864-11	SHORT CHIP	0		
R605	1-216-230-00	RES-CHIP	22K	2%	1/8W
R651	1-216-821-11	METAL CHIP	1K	5%	1/10W
R652	1-216-843-11	METAL CHIP	68K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R653	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R654	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R656	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R657	1-216-844-11	METAL CHIP	82K	5%	1/10W
R658	1-216-818-11	METAL CHIP	560	5%	1/10W
⚠ R659	1-249-405-91	CARBON	100	5%	1/4W F
⚠ R660	1-249-405-91	CARBON	100	5%	1/4W F
R661	1-216-214-00	RES-CHIP	4.7K	2%	1/8W
⚠ R662	1-240-855-91	CARBON	6.2K	5%	1/4W F
⚠ R663	1-234-182-11	ENCAPSULATED COMPONENT			F
R664	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R665	1-216-835-11	METAL CHIP	15K	5%	1/10W
R666	1-216-843-11	METAL CHIP	68K	5%	1/10W
R670	1-216-837-11	METAL CHIP	22K	5%	1/10W
R671	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R672	1-216-835-11	METAL CHIP	15K	5%	1/10W
R673	1-216-837-11	METAL CHIP	22K	5%	1/10W
R674	1-216-837-11	METAL CHIP	22K	5%	1/10W
R675	1-216-833-11	METAL CHIP	10K	5%	1/10W
R676	1-216-845-11	METAL CHIP	100K	5%	1/10W
⚠ R678	1-249-389-91	CARBON	4.7	5%	1/4W F
⚠ R679	1-249-393-91	CARBON	10	5%	1/4W F
R680	1-216-841-11	METAL CHIP	47K	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
R705	1-216-230-00	RES-CHIP	22K	2%	1/8W
R706	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R707	1-216-844-11	METAL CHIP	82K	5%	1/10W
R708	1-216-818-11	METAL CHIP	560	5%	1/10W
⚠ R709	1-249-405-91	CARBON	100	5%	1/4W F
⚠ R710	1-249-405-91	CARBON	100	5%	1/4W F
R711	1-216-214-00	RES-CHIP	4.7K	2%	1/8W
⚠ R712	1-240-855-91	CARBON	6.2K	5%	1/4W F
⚠ R713	1-234-182-11	ENCAPSULATED COMPONENT			F
R714	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R715	1-216-835-11	METAL CHIP	15K	5%	1/10W
R716	1-216-843-11	METAL CHIP	68K	5%	1/10W
R720	1-216-837-11	METAL CHIP	22K	5%	1/10W
R721	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R722	1-216-835-11	METAL CHIP	15K	5%	1/10W
R723	1-216-837-11	METAL CHIP	22K	5%	1/10W
R724	1-216-837-11	METAL CHIP	22K	5%	1/10W
R725	1-216-833-11	METAL CHIP	10K	5%	1/10W
R726	1-216-845-11	METAL CHIP	100K	5%	1/10W
⚠ R728	1-249-389-91	CARBON	4.7	5%	1/4W F
⚠ R729	1-249-393-91	CARBON	10	5%	1/4W F
R730	1-216-841-11	METAL CHIP	47K	5%	1/10W
R751	1-216-821-11	METAL CHIP	1K	5%	1/10W
R752	1-216-843-11	METAL CHIP	68K	5%	1/10W
R753	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R754	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R756	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R757	1-216-844-11	METAL CHIP	82K	5%	1/10W
R758	1-216-818-11	METAL CHIP	560	5%	1/10W
⚠ R759	1-249-405-91	CARBON	100	5%	1/4W F
⚠ R760	1-249-405-91	CARBON	100	5%	1/4W F
R761	1-216-214-00	RES-CHIP	4.7K	2%	1/8W
⚠ R762	1-240-855-91	CARBON	6.2K	5%	1/4W F

MAIN **POWER** **STANDBY**

Ref. No.	Part No.	Description				Remark
⚠ R763	1-234-182-11	ENCAPSULATED COMPONENT				F
R764	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R765	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R766	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R770	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R771	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R772	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R773	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R774	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R775	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R776	1-216-845-11	METAL CHIP	100K	5%	1/10W	
⚠ R778	1-249-389-91	CARBON	4.7	5%	1/4W	F
⚠ R779	1-249-393-91	CARBON	10	5%	1/4W	F
R780	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R801	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R802	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R803	1-208-445-41	RES-CHIP	2.2K	2%	1/10W	
R804	1-208-826-11	METAL CHIP	68K	0.5%	1/10W	
R805	1-216-230-00	RES-CHIP	22K	2%	1/8W	
R806	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R807	1-216-844-11	METAL CHIP	82K	5%	1/10W	
R808	1-216-818-11	METAL CHIP	560	5%	1/10W	
⚠ R809	1-249-405-91	CARBON	100	5%	1/4W	F
⚠ R810	1-249-405-91	CARBON	100	5%	1/4W	F
R811	1-216-214-00	RES-CHIP	4.7K	2%	1/8W	
⚠ R812	1-240-855-91	CARBON	6.2K	5%	1/4W	F
⚠ R813	1-234-182-11	ENCAPSULATED COMPONENT				F
R814	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R815	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R816	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R820	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R821	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R822	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R823	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R824	1-216-837-11	METAL CHIP	22K	5%	1/10W	
⚠ R828	1-249-389-91	CARBON	4.7	5%	1/4W	F
⚠ R829	1-249-393-91	CARBON	10	5%	1/4W	F
R830	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R851	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R852	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R853	1-208-445-41	RES-CHIP	2.2K	2%	1/10W	
R854	1-208-826-11	METAL CHIP	68K	0.5%	1/10W	
R856	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R857	1-216-844-11	METAL CHIP	82K	5%	1/10W	
R858	1-216-818-11	METAL CHIP	560	5%	1/10W	
⚠ R859	1-249-405-91	CARBON	100	5%	1/4W	F
⚠ R860	1-249-405-91	CARBON	100	5%	1/4W	F
R861	1-216-214-00	RES-CHIP	4.7K	2%	1/8W	
⚠ R862	1-240-855-91	CARBON	6.2K	5%	1/4W	F
⚠ R863	1-234-182-11	ENCAPSULATED COMPONENT				F
R864	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R865	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R866	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R870	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R871	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R872	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R873	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R874	1-216-837-11	METAL CHIP	22K	5%	1/10W	
⚠ R878	1-249-389-91	CARBON	4.7	5%	1/4W	F

Ref. No.	Part No.	Description				Remark
⚠ R879	1-249-393-91	CARBON	10	5%	1/4W	F
R880	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R930	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R931	1-216-833-11	METAL CHIP	10K	5%	1/10W	
⚠ R932	1-249-389-91	CARBON	4.7	5%	1/4W	F
⚠ R940	1-240-877-91	FUSIBLE	0.15	5%	1/2W	F
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 >				
RY301	1-755-267-11	RELAY				
RY350	1-755-170-11	RELAY				
RY355	1-755-170-11	RELAY				
RY360	1-755-170-11	RELAY				
RY375	1-755-170-11	RELAY				
		< TERMINAL >				
TB601	1-780-215-11	TERMINAL BOARD (SP) (4P) (SPEAKERS FRONT)				
TB604	1-694-785-11	TERMINAL BOARD (SPEAKERS SURROUND)				
TB607	1-694-157-21	TERMINAL, PUSH (2P) (SPEAKERS CENTER)				
**********						
		POWER BOARD				
		**********				
		< CONNECTOR >				
* CN103	1-691-670-11	CONNECTOR, BOARD TO BOARD 5P				
		< RESISTOR >				
R111	1-216-819-11	METAL CHIP	680	5%	1/10W	
		< SWITCH >				
S100	1-771-410-21	SWITCH, TACTILE (I/⏻)				
S115	1-771-410-21	SWITCH, TACTILE (SPEAKERS (ON/OFF))				
**********						
	A-1433-572-A	STANDBY BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C910	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	
C911	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	
C912	1-126-943-11	ELECT	2200uF	20%	25V	
C913	1-126-942-61	ELECT	1000uF	20%	25V	
C950	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	
C951	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	
C952	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	
C954	1-128-547-11	ELECT	6800uF	20%	16V	
C955	1-126-942-61	ELECT	1000uF	20%	25V	
C992	1-126-960-11	ELECT	1uF	20%	50V	
C999	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CNP901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
* CNP902	1-565-792-11	PIN, CONNECTOR (3.96mm PITCH) 2P	
* CNP910	1-564-506-11	PLUG, CONNECTOR 3P	
CNP911	1-778-227-41	CONNECTOR, BOARD TO BOARD 6P	
* CNP913	1-564-509-11	PLUG, CONNECTOR 6P	
		< DIODE >	
D901	6-501-817-01	DIODE MA2J1110GLS0	
⚠ D910	8-719-053-18	DIODE 1SR154-400TE-25	
⚠ D911	8-719-053-18	DIODE 1SR154-400TE-25	
⚠ D912	8-719-053-18	DIODE 1SR154-400TE-25	
⚠ D913	8-719-053-18	DIODE 1SR154-400TE-25	
⚠ D950	8-719-053-18	DIODE 1SR154-400TE-25	
⚠ D951	8-719-053-18	DIODE 1SR154-400TE-25	
⚠ D952	8-719-053-18	DIODE 1SR154-400TE-25	
⚠ D953	8-719-053-18	DIODE 1SR154-400TE-25	
D955	8-719-053-18	DIODE 1SR154-400TE-25	
D990	6-501-817-01	DIODE MA2J1110GLS0	
D991	6-501-817-01	DIODE MA2J1110GLS0	
		< EARTH TERMINAL >	
ET901	1-537-738-21	TERMINAL, GROUND	
		< FUSE HOLDER >	
FH901	1-533-217-31	FUSE HOLDER	
FH902	1-533-217-31	FUSE HOLDER	
		< TRANSISTOR >	
Q901	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q951	8-729-106-60	TRANSISTOR 2SB1115A-YQ	
Q955	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q990	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
		< RESISTOR >	
⚠ R901	1-219-237-51	SOLID 3.3M 20% 1/2W	F
⚠ R902	1-249-381-91	CARBON 1 5% 1/4W	F
R903	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R904	1-216-841-11	METAL CHIP 47K 5% 1/10W	
⚠ R910	1-243-634-11	FUSIBLE 0.22 5% 1/2W	F
⚠ R911	1-243-634-11	FUSIBLE 0.22 5% 1/2W	F
R955	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R956	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R957	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R990	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R991	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R993	1-216-833-11	METAL CHIP 10K 5% 1/10W	
		< RELAY >	
⚠ RY901	1-755-541-11	RELAY	
		< TRANSFORMER >	
⚠ T904	1-437-312-11	TRANSFORMER, POWER	

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Ref. No.	Part No.	Description	Remark
	A-1433-570-A	VIDEO BOARD, COMPLETE	
		**********	
		< CAPACITOR >	
C201	1-100-385-91	CERAMIC CHIP 0.47uF	25V
C202	1-100-385-91	CERAMIC CHIP 0.47uF	25V
C203	1-126-947-11	ELECT 47uF 20%	35V
C204	1-126-947-11	ELECT 47uF 20%	35V
C211	1-126-964-11	ELECT 10uF 20%	50V
C212	1-126-964-11	ELECT 10uF 20%	50V
C213	1-126-964-11	ELECT 10uF 20%	50V
C215	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C217	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C221	1-126-964-11	ELECT 10uF 20%	50V
C222	1-126-964-11	ELECT 10uF 20%	50V
C223	1-126-964-11	ELECT 10uF 20%	50V
C224	1-126-964-11	ELECT 10uF 20%	50V
C225	1-126-964-11	ELECT 10uF 20%	50V
C226	1-126-964-11	ELECT 10uF 20%	50V
C227	1-126-964-11	ELECT 10uF 20%	50V
C228	1-126-964-11	ELECT 10uF 20%	50V
C229	1-126-964-11	ELECT 10uF 20%	50V
C232	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C233	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C240	1-126-964-11	ELECT 10uF 20%	50V
C242	1-126-964-11	ELECT 10uF 20%	50V
		< CONNECTOR >	
* CNP203	1-564-507-11	PLUG, CONNECTOR 4P	
CNP240	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
* CNP242	1-564-506-11	PLUG, CONNECTOR 3P	
CNS271	1-779-275-11	CONNECTOR, FFC (LIF (NON-ZIF)) 7P	
		< DIODE >	
D210	6-501-817-01	DIODE MA2J1110GLS0	
D211	6-501-817-01	DIODE MA2J1110GLS0	
		< IC >	
⚠ IC201	8-759-231-53	IC TA7805S	
⚠ IC202	8-759-373-92	IC TA79005SB	
IC210	6-704-199-01	IC NJM2595M-TE2	
IC220	6-706-767-01	IC NJM2586AM	
		< JACK >	
J210	1-815-043-11	JACK, PIN 2P (MONITOR VIDEO OUT,VIDEO 1 DVD IN)	
J211	1-794-978-11	JACK, PIN 3P (VIDEO 1 VIDEO OUT,DVD VIDEO IN, SAT VIDEO IN)	
J220	1-816-592-11	JACK, PIN 9P (COMPONENT VIDEO DVD IN/ VIDEO 1 IN/MONITER OUT)	
J221	1-821-278-12	JACK 3P (COMPONENT VIDEO SAT IN)	
		< RESISTOR >	
R211	1-211-990-11	METAL CHIP 75 0.5%	1/10W
R212	1-211-990-11	METAL CHIP 75 0.5%	1/10W
R213	1-211-990-11	METAL CHIP 75 0.5%	1/10W
R214	1-211-990-11	METAL CHIP 75 0.5%	1/10W
R215	1-211-990-11	METAL CHIP 75 0.5%	1/10W
R221	1-211-990-11	METAL CHIP 75 0.5%	1/10W
R222	1-211-990-11	METAL CHIP 75 0.5%	1/10W
R223	1-211-990-11	METAL CHIP 75 0.5%	1/10W

VIDEO | VIDEO 2 | XM

Ref. No.	Part No.	Description			Remark
R224	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R225	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R226	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R227	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R228	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R229	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R240	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R242	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R276	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R277	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R278	1-211-990-11	METAL CHIP	75	0.5%	1/10W
**********					
		VIDEO 2 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 >			
CNP201	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
		< JACK >			
J298	1-819-187-11	PIN JACK 3P (VIDEO 2 IN/PORTABLE AV INVIDEO/AUDIO)			
		< LEAD >			
* TP202	1-690-880-31	LEAD (WITH CONNECTOR)			
**********					
	A-1433-639-A	XM BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-112-791-11	ELECT CHIP	100uF	20%	16V
C102	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C103	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C104	1-128-991-21	ELECT CHIP	10uF	20%	50V
C105	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C106	1-112-692-11	CERAMIC CHIP	1000PF	5%	50V
C107	1-112-692-11	CERAMIC CHIP	1000PF	5%	50V
C108	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C109	1-112-692-11	CERAMIC CHIP	1000PF	5%	50V
C110	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C111	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C113	1-128-991-21	ELECT CHIP	10uF	20%	50V
C116	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C118	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C119	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C120	1-164-942-11	CERAMIC CHIP	0.0068uF	10%	16V
C121	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C122	1-128-991-21	ELECT CHIP	10uF	20%	50V
C123	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C124	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C125	1-128-991-21	ELECT CHIP	10uF	20%	50V
C126	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C127	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C128	1-164-942-11	CERAMIC CHIP	0.0068uF	10%	16V

Ref. No.	Part No.	Description			Remark
C129	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C130	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C131	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
C132	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
C133	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
C134	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
C135	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C136	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C137	1-128-991-21	ELECT CHIP	10uF	20%	50V
C138	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C139	1-128-991-21	ELECT CHIP	10uF	20%	50V
C140	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C142	1-128-991-21	ELECT CHIP	10uF	20%	50V
C143	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C144	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C145	1-117-681-11	ELECT CHIP	100uF	20%	16V
C153	1-117-681-11	ELECT CHIP	100uF	20%	16V
C157	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C159	1-112-791-11	ELECT CHIP	100uF	20%	16V
C161	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C163	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C164	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C165	1-164-845-11	CERAMIC CHIP	5PF	0.25PF	50V
C166	1-164-845-11	CERAMIC CHIP	5PF	0.25PF	50V
C174	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C175	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C176	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CN101	1-785-466-41	CONNECTOR, FFC/FPC 7P			
CN102	1-779-993-11	PIN, CONNECTOR (PWB) 5P			
CNP103	1-774-730-21	PIN, CONNECTOR (PC BOARD) 3P			
		< DIODE >			
D101	6-500-462-01	DIODE NSAD500F-T1B			
D103	8-719-083-02	DIODE KDS160-RTK			
		< FERRITE BEAD >			
FB101	1-469-152-11	FERRITE, EMI (SMD) (2012)			
FB104	1-469-152-11	FERRITE, EMI (SMD) (2012)			
		< IC >			
IC101	6-705-468-01	IC BA33BC0FP-E2			
IC102	6-709-251-01	IC F2602E-01-TR			
IC104	8-759-710-97	IC NJM4565M-D			
IC105	6-707-111-01	IC PCM1753DBQR			
IC106	6-706-740-01	IC BA00BC0WFP-E2			
⚠ IC107	6-705-469-01	IC BA50BC0FP-E2			
		< JACK >			
J101	1-793-642-21	CONNECTOR (USB) (4P), SQUARE (XM)			
		< JUMPER RESISTOR >			
L101	1-216-295-91	SHORT CHIP	0		
L102	1-216-295-91	SHORT CHIP	0		
		< TRANSISTOR >			
Q105	8-729-027-46	TRANSISTOR	DTC114YKA-T146		

Ref. No.	Part No.	Description			Remark
Q106	6-550-044-01	TRANSISTOR	2SB1689-T106		
		< RESISTOR >			
R101	1-216-845-11	METAL CHIP	100K	5%	1/10W
R102	1-216-845-11	METAL CHIP	100K	5%	1/10W
R103	1-216-833-11	METAL CHIP	10K	5%	1/10W
R104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R107	1-216-809-11	METAL CHIP	100	5%	1/10W
R108	1-216-809-11	METAL CHIP	100	5%	1/10W
R109	1-216-841-11	METAL CHIP	47K	5%	1/10W
R110	1-216-809-11	METAL CHIP	100	5%	1/10W
R112	1-216-833-11	METAL CHIP	10K	5%	1/10W
R115	1-216-833-11	METAL CHIP	10K	5%	1/10W
R116	1-216-833-11	METAL CHIP	10K	5%	1/10W
R117	1-216-809-11	METAL CHIP	100	5%	1/10W
R118	1-216-841-11	METAL CHIP	47K	5%	1/10W
R119	1-216-841-11	METAL CHIP	47K	5%	1/10W
R120	1-216-834-11	METAL CHIP	12K	5%	1/10W
R121	1-216-841-11	METAL CHIP	47K	5%	1/10W
R122	1-216-841-11	METAL CHIP	47K	5%	1/10W
R123	1-216-819-11	METAL CHIP	680	5%	1/10W
R124	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R125	1-216-813-11	METAL CHIP	220	5%	1/10W
R126	1-216-845-11	METAL CHIP	100K	5%	1/10W
R127	1-216-809-11	METAL CHIP	100	5%	1/10W
R128	1-216-845-11	METAL CHIP	100K	5%	1/10W
R129	1-216-809-11	METAL CHIP	100	5%	1/10W
R130	1-216-809-11	METAL CHIP	100	5%	1/10W
R131	1-216-809-11	METAL CHIP	100	5%	1/10W
R132	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R133	1-216-819-11	METAL CHIP	680	5%	1/10W
R134	1-216-809-11	METAL CHIP	100	5%	1/10W
R137	1-216-834-11	METAL CHIP	12K	5%	1/10W
R138	1-216-821-11	METAL CHIP	1K	5%	1/10W
R143	1-216-809-11	METAL CHIP	100	5%	1/10W
R144	1-216-821-11	METAL CHIP	1K	5%	1/10W
R145	1-216-841-11	METAL CHIP	47K	5%	1/10W
R146	1-216-841-11	METAL CHIP	47K	5%	1/10W
R147	1-216-833-11	METAL CHIP	10K	5%	1/10W
R156	1-216-811-11	METAL CHIP	150	5%	1/10W
R158	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R162	1-216-845-11	METAL CHIP	100K	5%	1/10W
R163	1-216-851-11	METAL CHIP	330K	5%	1/10W
R174	1-216-819-11	METAL CHIP	680	5%	1/10W
R176	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< VIBRATOR >			
X101	1-760-841-11	VIBRATOR, CRYSTAL (45.1584MHz)			

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Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
10	1-828-994-11	WIRE (FLAT TYPE) (17 CORE)	
⚠ 53	1-783-820-11	CORD, POWER	
56	1-828-299-51	WIRE (FLAT TYPE) (7 CORE)	
57	1-828-951-11	WIRE (FLAT TYPE) (9 CORE)	
58	1-693-728-31	TUNER (FM/AM)	
61	1-828-350-51	WIRE (FLAT TYPE) (17 CORE)	
⚠ F901	1-533-453-12	FUSE, GLASS TUBE (DIA. 5) (5A/125V)	
⚠ F4001	1-532-465-33	FUSE (T3.15AL/250V)	
⚠ F4002	1-532-465-33	FUSE (T3.15AL/250V)	
Q653	6-702-390-01	TRANSISITOR MN2488-OPY-MK	
Q654	6-702-391-01	TRANSISITOR MP1620-OPY-MK	
Q703	6-702-390-01	TRANSISITOR MN2488-OPY-MK	
Q704	6-702-391-01	TRANSISITOR MP1620-OPY-MK	
Q753	6-702-390-01	TRANSISITOR MN2488-OPY-MK	
Q754	6-702-391-01	TRANSISITOR MP1620-OPY-MK	
Q803	6-702-390-01	TRANSISITOR MN2488-OPY-MK	
Q804	6-702-391-01	TRANSISITOR MP1620-OPY-MK	
Q853	6-702-390-01	TRANSISITOR MN2488-OPY-MK	
Q854	6-702-391-01	TRANSISITOR MP1620-OPY-MK	
⚠ T901	1-443-524-11	POWER TRANSFORMER	

REVISION HISTORY

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Ver.	Date	Description of Revision
1.0	2008.02	New