HCD-EX66/EX88/EX99

SERVICE MANUAL

E Model

Ver. 1.0 2011.03

- HCD-EX66 is the amplifier, USB, CD player and tuner section in MHC-EX66.
- HCD-EX88 is the amplifier, USB, CD player and tuner section in MHC-EX88.
- HCD-EX99 is the amplifier, USB, CD player and tuner section in MHC-EX99.

Photo: HCD-EX99

CD Section	Model Name Using Similar Mechanism	New
	Mechanism Type	CDM76B-D1BD76
	Optical Pick-up Block Name	DA11MMVGP

SPECIFICATIONS

Amplifier section
The following measured at AC 127 V, 60 Hz (Mexican model)
The following measured at AC 220 V, 50/60 Hz (Argentine model)
The following measured at AC 230 V, 50/60 Hz (Other models)

HCD-EX99
Front Speaker:
Power output (rated):
80 W + 80 W (at 3 Ω, 1 kHz, 1% THD)
RMS output power (reference):
135 W + 135 W (per channel at 3 Ω, 1 kHz)
Subwoofer:
RMS output power (reference):
200 W (at 8 Ω, 100 Hz)

HCD-EX88
Power output (rated):
120 W + 120 W (at 4 Ω, 1 kHz, 1% THD)
RMS output power (reference):
200 W + 200 W (per channel at 4 Ω, 1 kHz)

HCD-EX66
Power output (rated):
50 W + 50 W (at 4 Ω, 1 kHz, 1% THD)
RMS output power (reference):
90 W + 90 W (per channel at 4 Ω, 1 kHz)

Inputs
DVD/PC IN L/R (phono jacks):
Sensitivity 700 mV, impedance 22 kΩ

Outputs
PHONES (stereo mini jack):
accepts headphones with an impedance of 8 Ω or more
SPEAKERS: impedance
HCD-EX99: impedance 3 Ω
HCD-EX88/EX66: impedance 4 Ω
SUBWOOFER (HCD-EX99 only):
impedance 8 Ω

USB section
Supported bit rate:
MP3 (MPEG 1 Audio Layer-3):
32 kbps – 320 kbps, VBR
WMA: 48 kbps – 192 kbps
AAC: 48 kbps – 320 kbps
Sampling frequencies:
MP3 (MPEG 1 Audio Layer-3):
32/44.1/48 kHz
WMA: 44.1 kHz
AAC: 44.1 kHz
(USB) port:
Maximum current:
500 mA

CD player section
System:
Compact disc and digital audio system
Laser Diode Properties
Emission Duration: Continuous
Laser Output*: Less than 44.6μW
*This output is the value measurement at a distance of 200mm from the objective lens surface on the Optical Pick-up Block with 7mm aperture.
Frequency response: 20 Hz – 20 kHz
Signal-to-noise ratio: More than 90 dB
Dynamic range: More than 88 dB

Tuner section
FM stereo, FM/AM superheterodyne tuner
Antenna:
FM lead antenna
AM loop antenna

FM tuner section:
Tuning range:
87.5 MHz – 108.0 MHz (50 kHz step)
Intermediate frequency:
200/250/300/350/400 kHz

– Continued on next page –

COMPACT DISC RECEIVER

9-893-153-01
2011C04-1

Sony Corporation
Published by Sony Techno Create Corporation

SONY®

AM tuner section:
Tuning range
Latin American models:
530 kHz – 1,710 kHz (10 kHz step)
531 kHz – 1,710 kHz (9 kHz step)
Saudi Arabia model:
531 kHz – 1,602 kHz (9 kHz step)
Other models:
531 kHz – 1,602 kHz (9 kHz step)
530 kHz – 1,610 kHz (10 kHz step)
Intermediate frequency: 400 kHz

General

Power requirements
Mexican model:
AC 127 V, 60 Hz
Argentine model:
AC 220 V – 240 V, 50/60 Hz
Other models:
AC 120 V – 240 V, 50/60 Hz
Power consumption
HCD-EX99: 85 W
(0.5 W at the Power Saving Mode)
HCD-EX88: 70 W
(0.5 W at the Power Saving Mode)
HCD-EX66: 45 W
(0.5 W at the Power Saving Mode)
Dimensions (W/H/D) (excl. speakers)
Approx. 210 mm × 312 mm × 375 mm
Mass (excl. speakers)
HCD-EX99/EX88: Approx. 3.8 kg
HCD-EX66: Approx. 3.6 kg

Design and specifications are subject to change without notice.

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.

FLEXIBLE CIRCUIT BOARD REPAIRING

- Keep the temperature of soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. This marking is located on the rear exterior.

SAFETY-RELATED COMPONENT WARNING!

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

TABLE OF CONTENTS

Accessories are given in the last of the electrical parts list.

SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pickup block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(**Caution:** Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

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

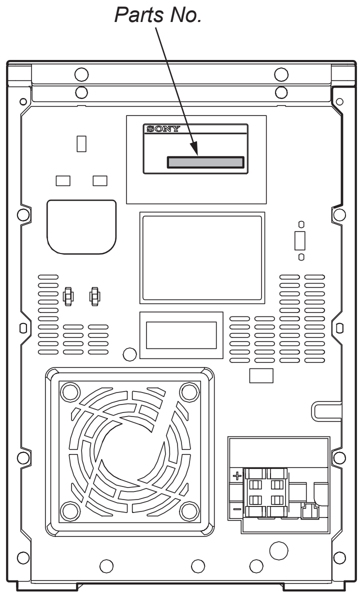
RELEASING THE DISC TRAY LOCK

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Releasing Procedure:
1. Press [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to select CD function.
3. While pressing the [■] button for more 5 seconds.
4. The message "CHILD LOCK OFF" is displayed and the disc tray is unlocked.

Note: When "CHILD LOCK ON" is displayed, the slot lock is not released by turning power on/off with the [I/⏻] button.

MODEL IDENTIFICATION
– Model Number Lavel –

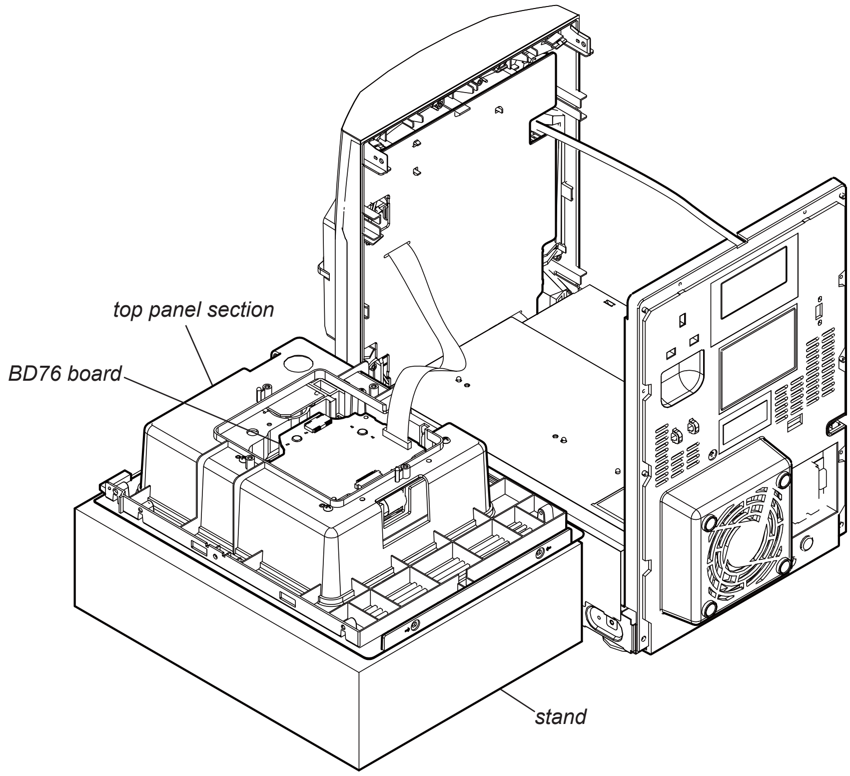


Model	Part No.
EX99: MX model	4-263-771-0□
EX99: AR model	4-263-772-0□
EX88: E2, E51 models	4-263-773-0□
EX88: MX model	4-263-774-0□
EX88: AR model	4-263-775-0□
EX66: E4 model	4-263-778-0□
EX66: EA model	4-263-779-0□
EX66: E2, E51 models	4-263-780-0□
EX66: AR model	4-263-782-0□
EX99: E2, E51 models	*

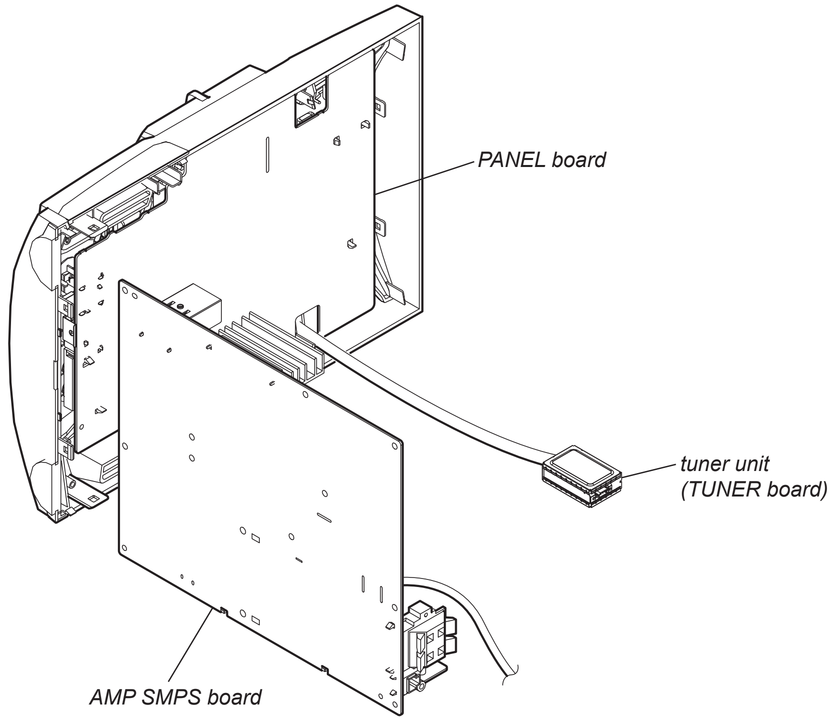
- Abbreviation
  AR : Argentina model
  E2 : 120V AC area in E model
  E4 : 220 – 240V AC area in E model
  E51 : Chilean and Peruvian models
  EA : Saudi Arabia model
  MX : Mexican model

*: Since the HCD-EX99: E2 and E51 models have their model number labels marked directly on the back panel, the model number labels have no relative part numbers.
Because of this, determine the model through the marked model number when comparing the difference between these models.

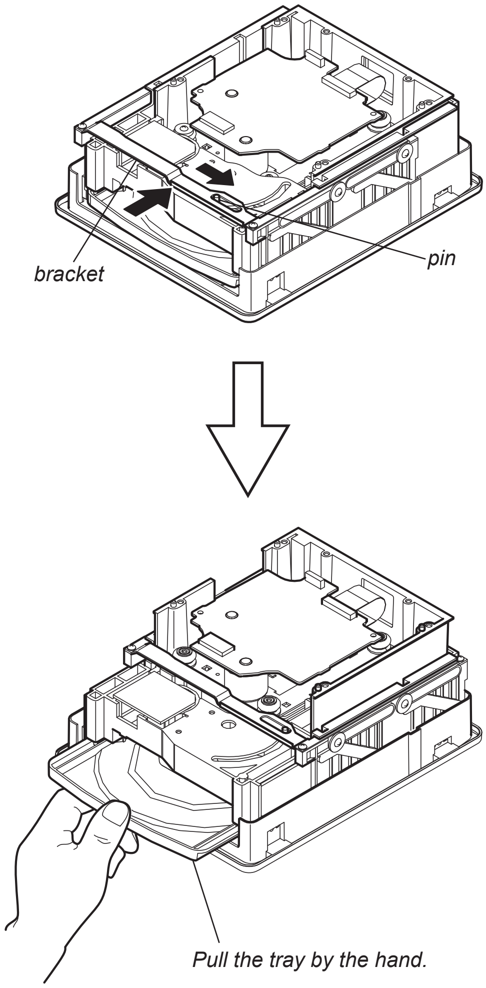
SERVICE POSITION OF CDM76



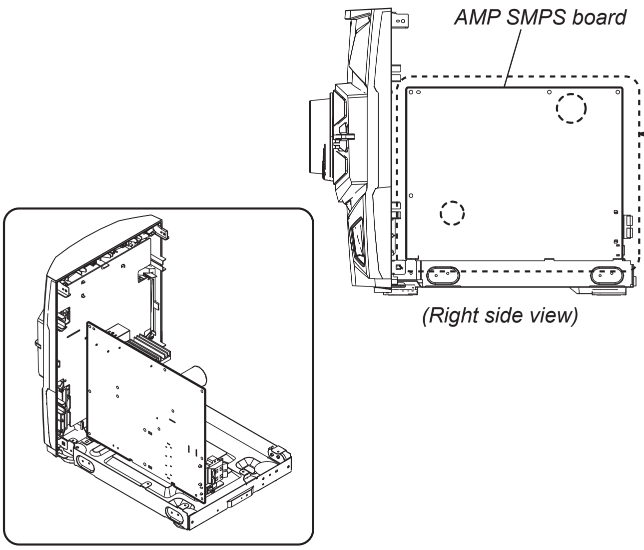
SERVICE POSITION OF BOARDS



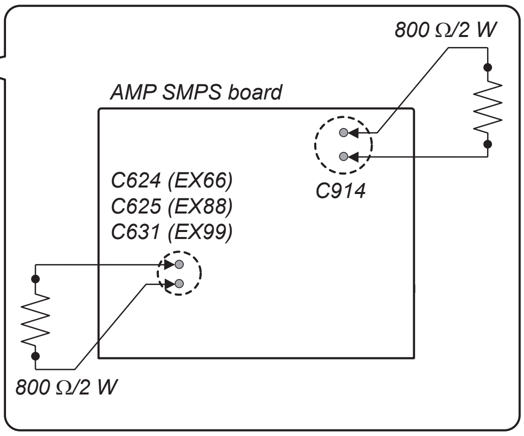
HOW TO OPEN THE TRAY WHEN POWER SWITCH TURN OFF



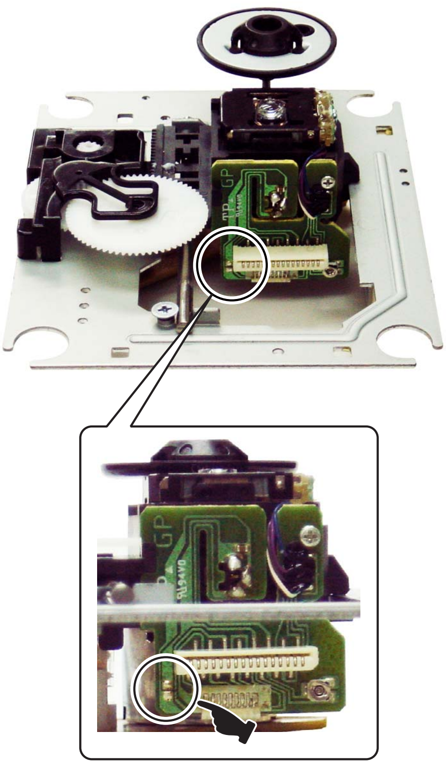
CAPACITOR DISCHARGE FOR ELECTRIC SHOCK PREVENTION



In checking the AMP SMPS board, make a capacitor discharge of C624 (EX66) or C625 (EX88) or C631 (EX99) and C914 for electrical shock prevention.



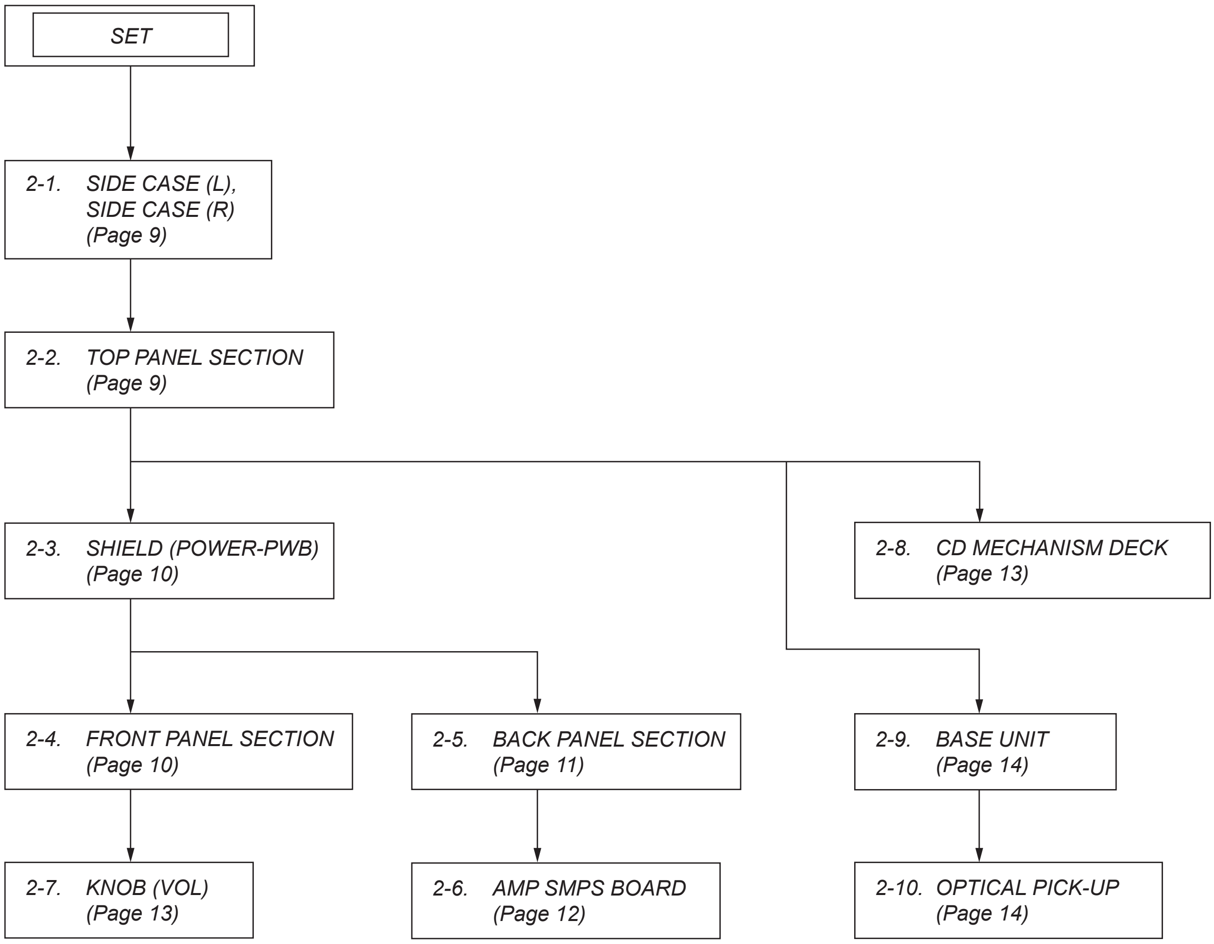
PRECAUTION WHEN INSTALLING A NEW OP UNIT/ PRECAUTION BEFORE UNSOLDERING THE STATIC ELECTRICITY PREVENTION SOLDER BRIDGE



When installing a new OP unit, be sure to connect the flexible printed circuit board first of all before removing the static electricity prevention solder bridge by unsoldering.
Remove the static electricity prevention solder bridge by unsoldering after the flexible printed circuit board has already been connected.
(Do not remove nor unsolder the solder bridge as long as the OP unit is kept standalone.)

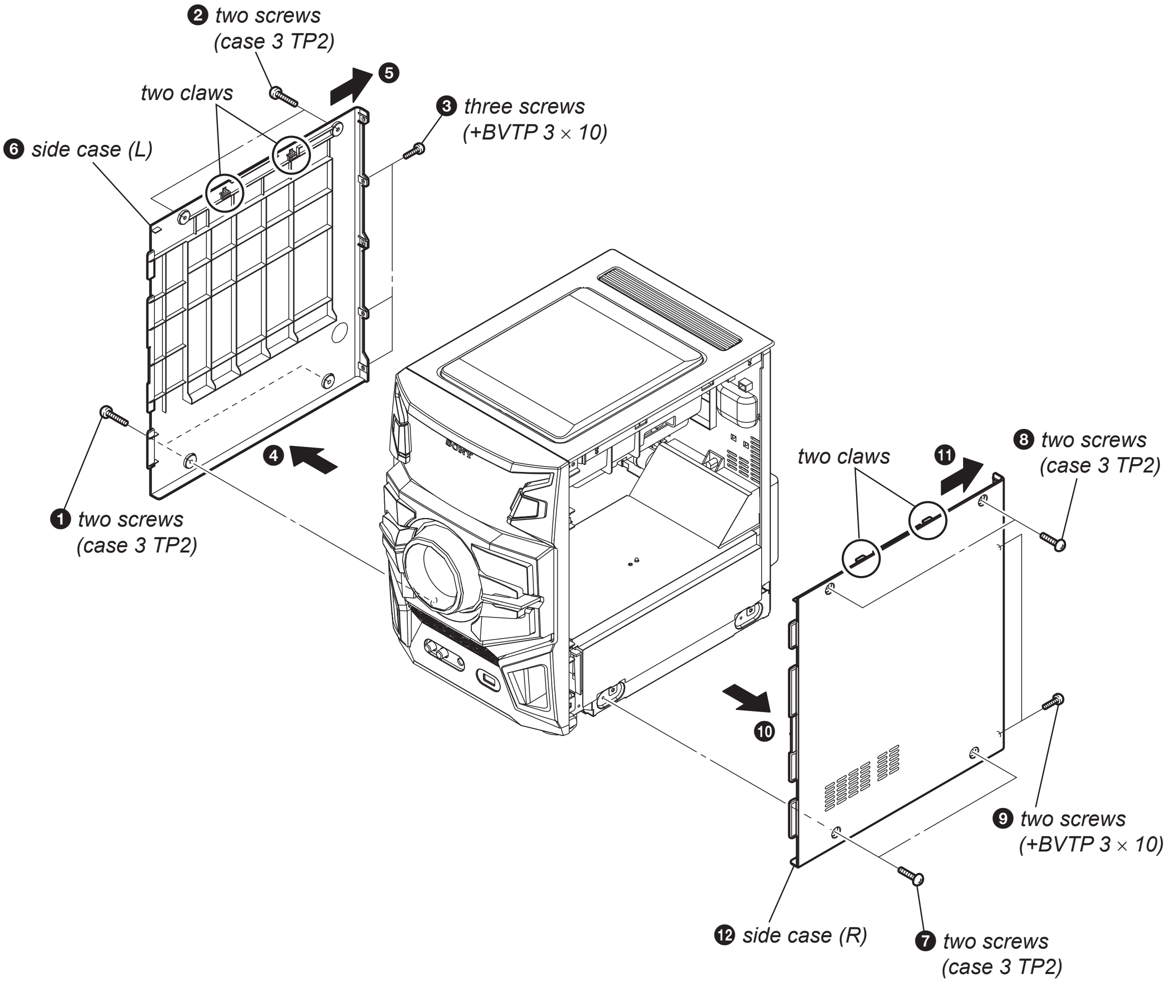
SECTION 2
DISASSEMBLY

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

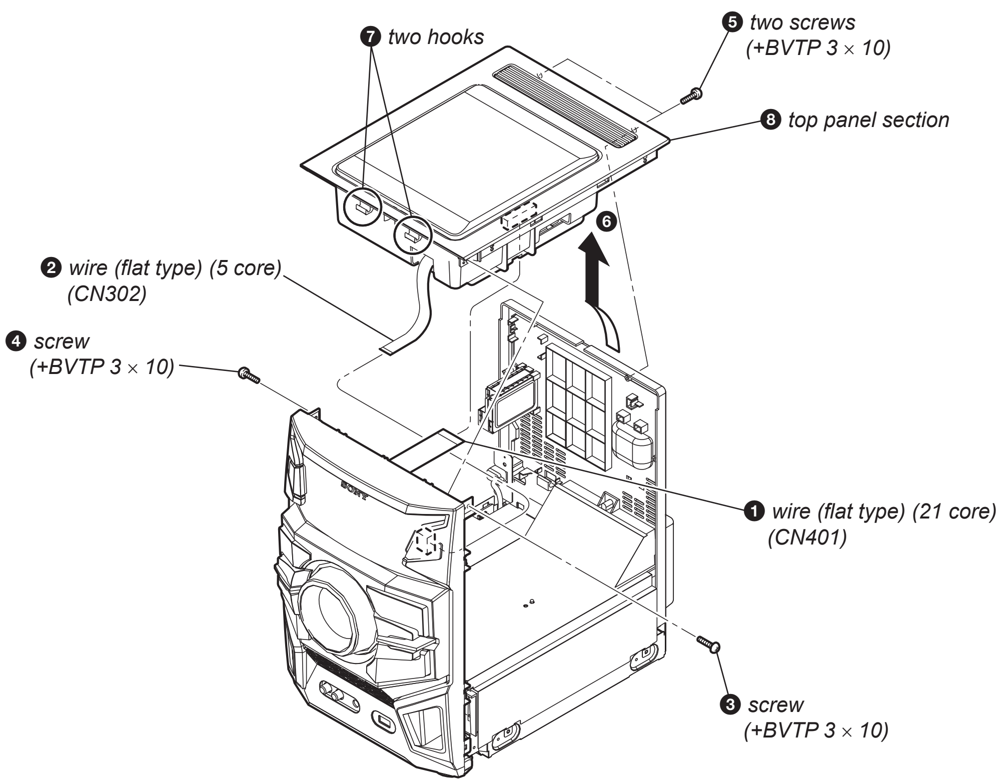


Note: Follow the disassembly procedure in the numerical order given.

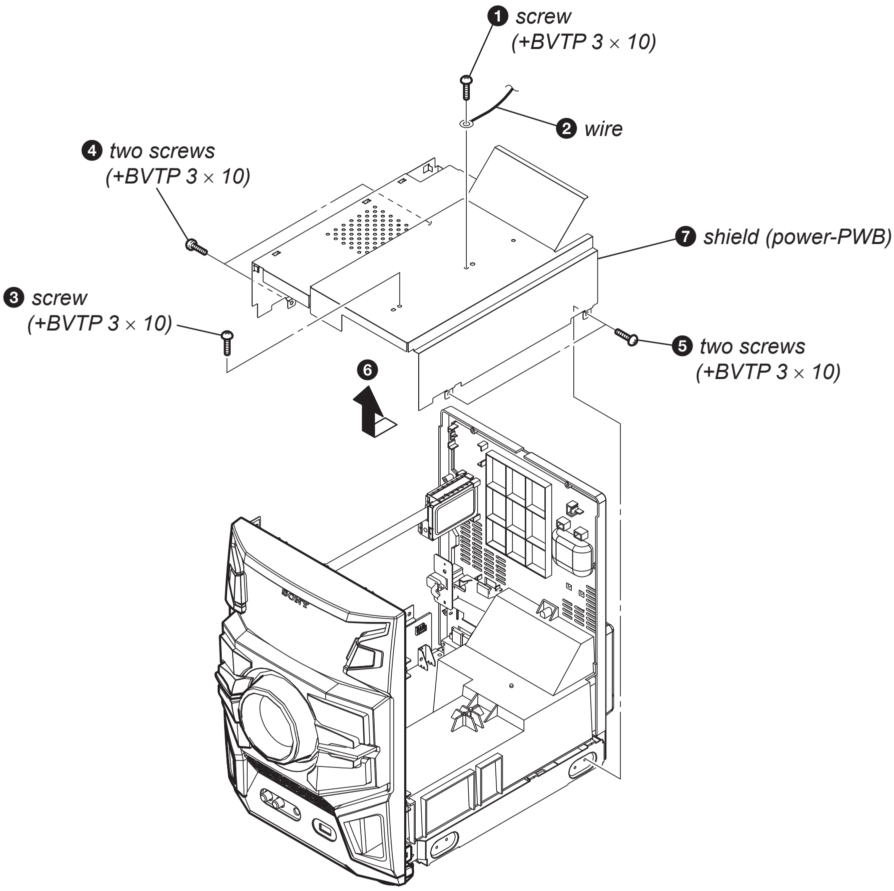
2-1. SIDE CASE (L), SIDE CASE (R)



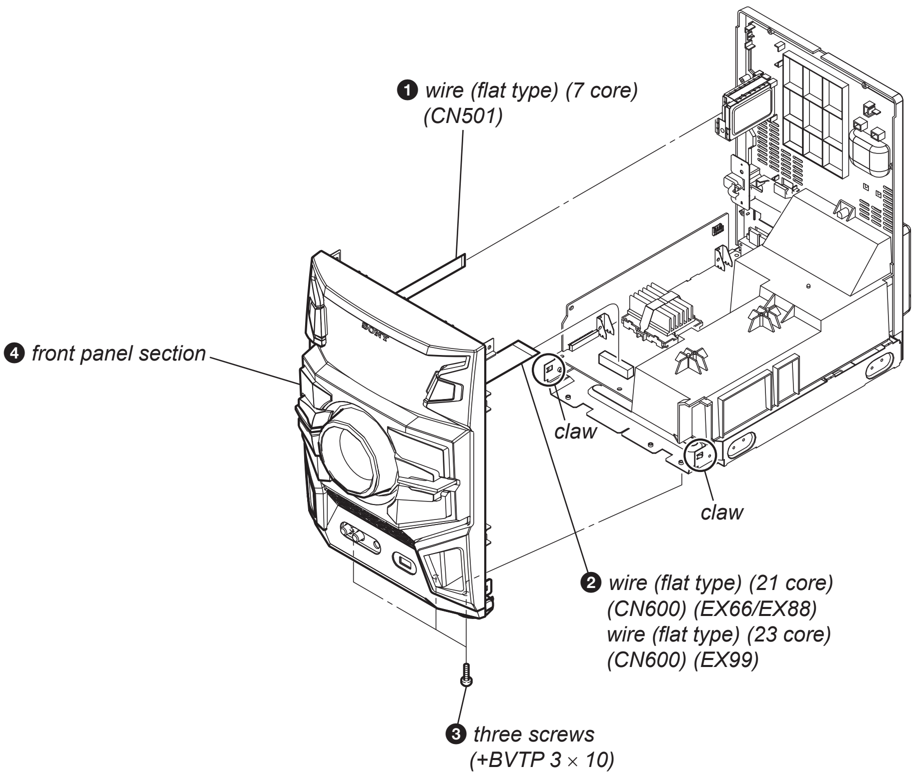
2-2. TOP PANEL SECTION



2-3. SHIELD (POWER-PWB)

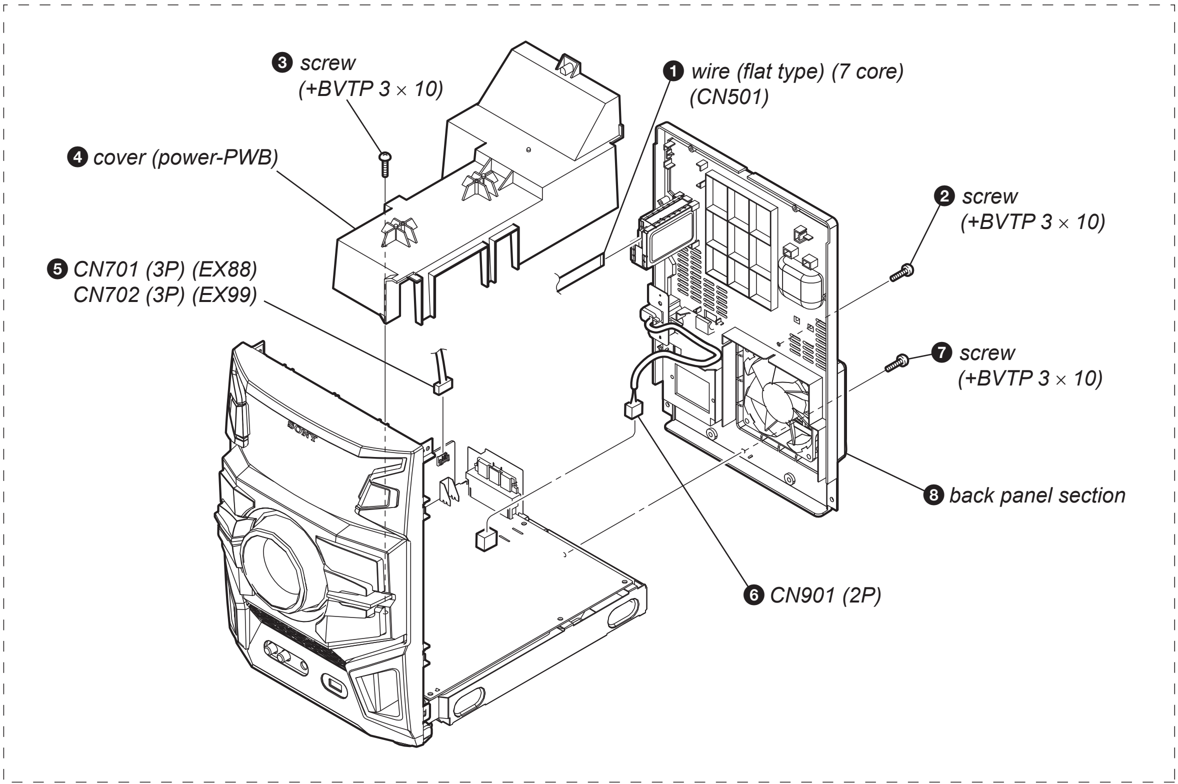


2-4. FRONT PANEL SECTION

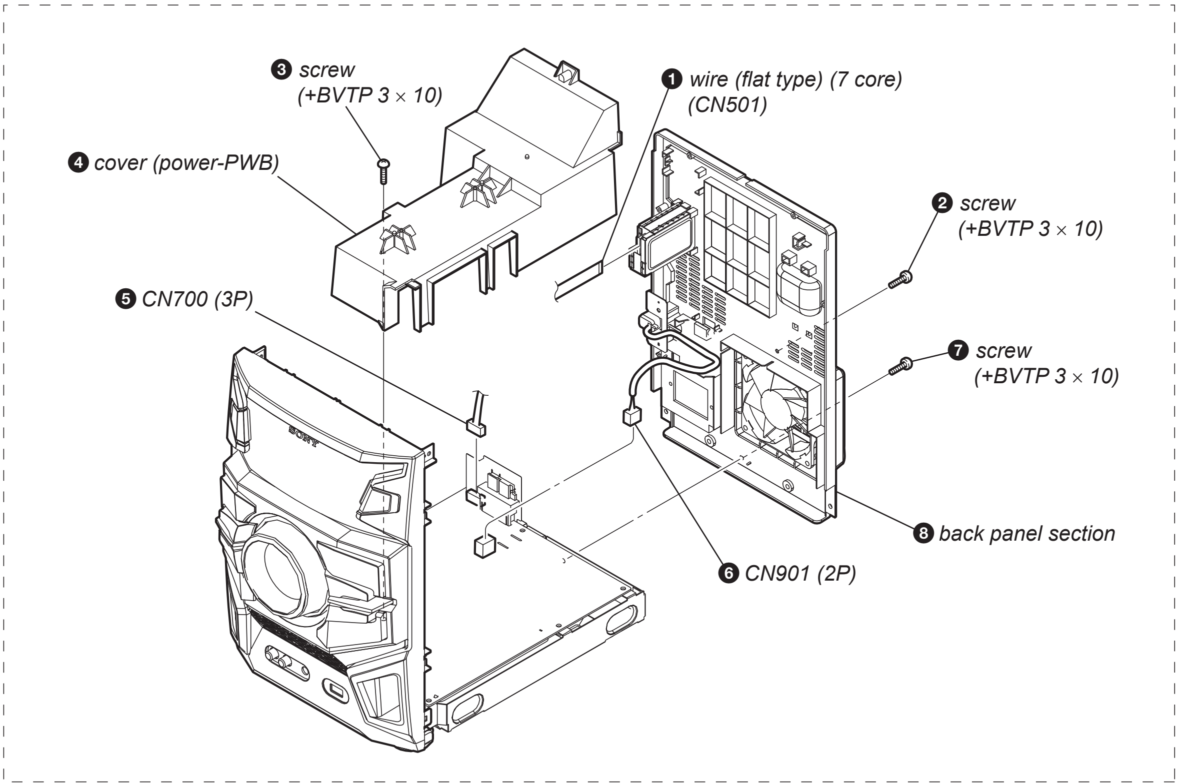


2-5. BACK PANEL SECTION

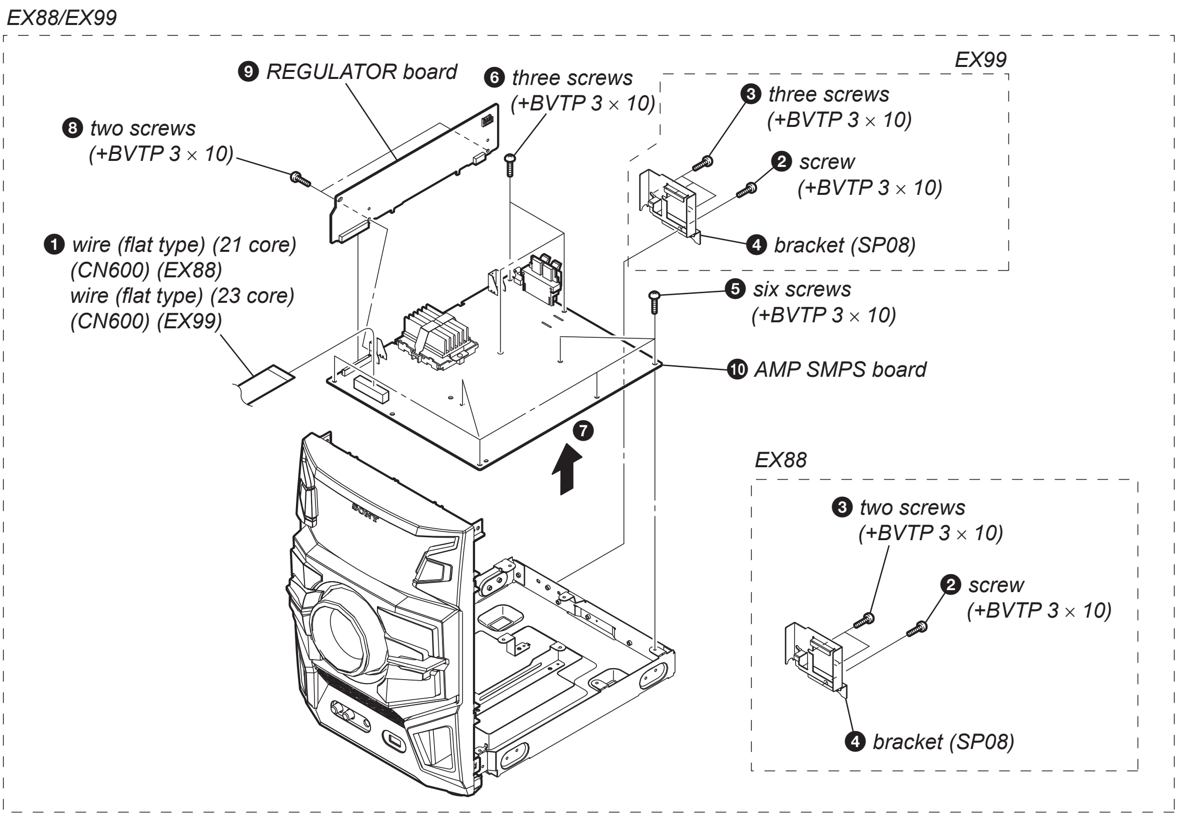
EX88/EX99

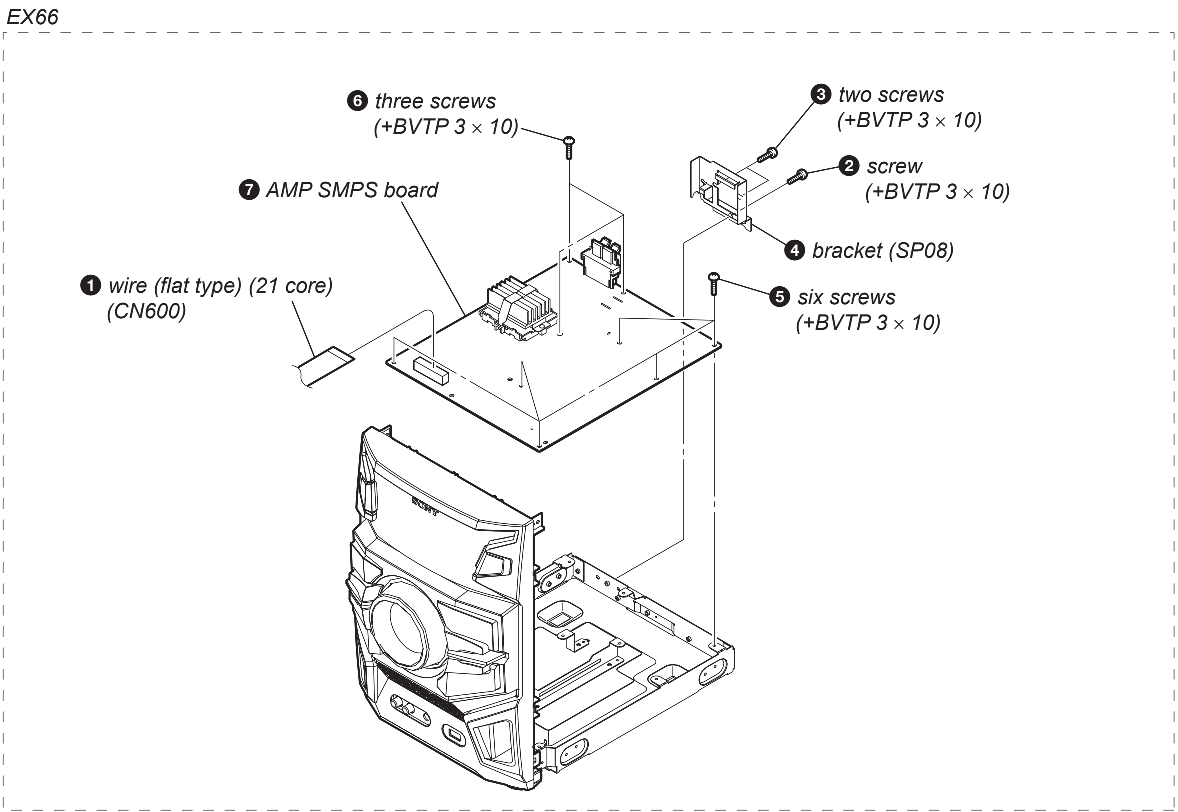


EX66

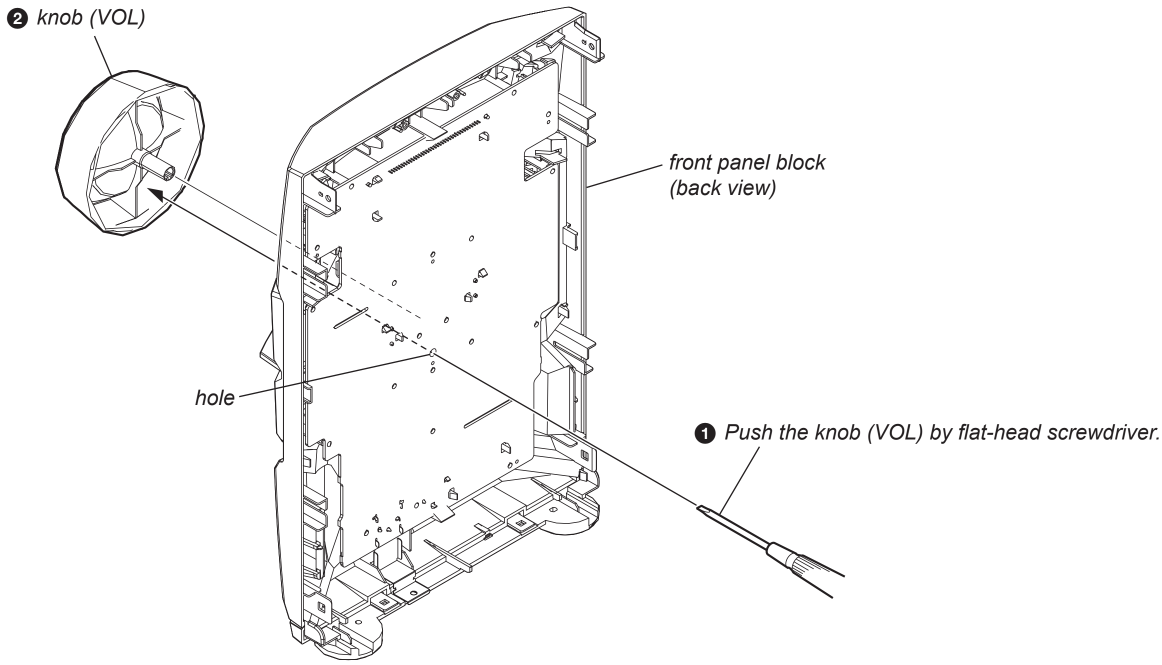


2-6. AMP SMPS BOARD

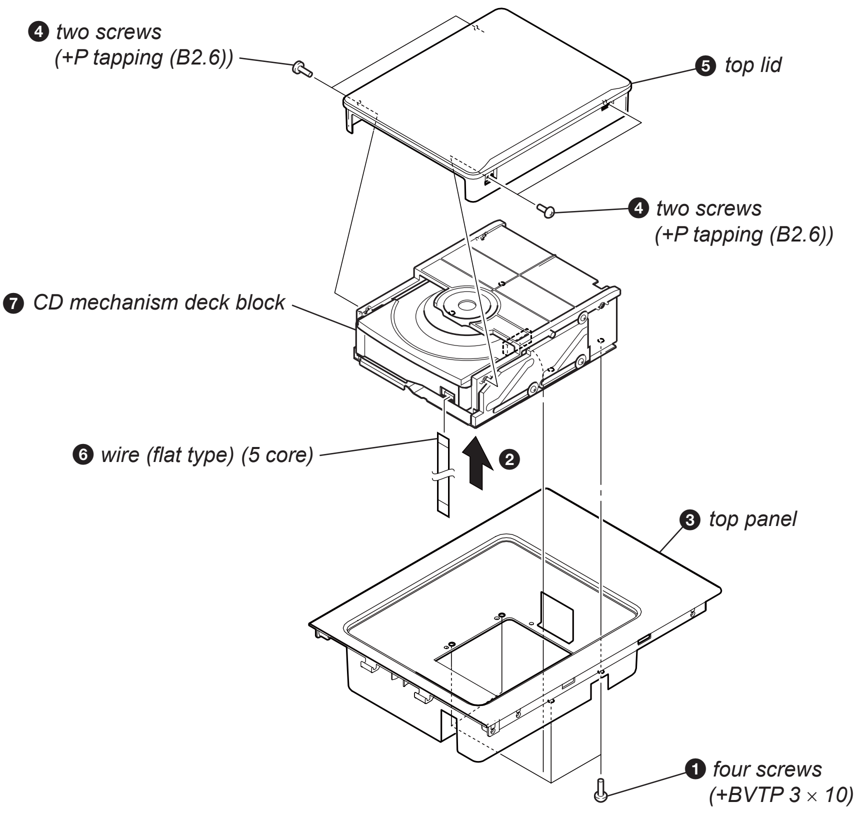




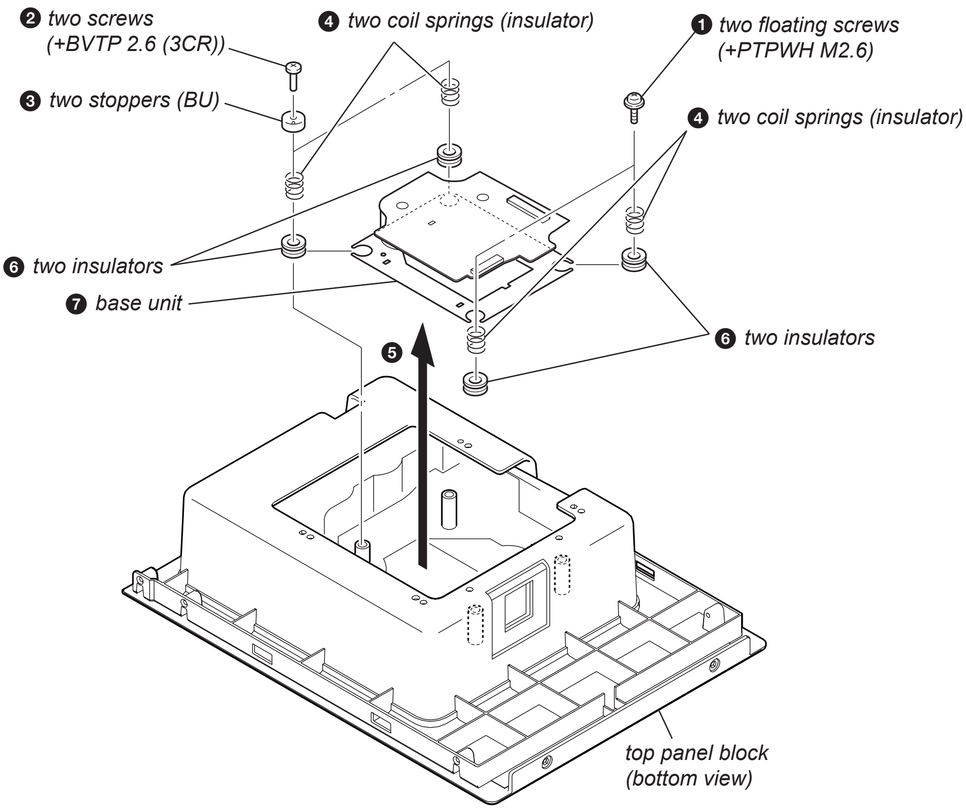
2-7. KNOB (VOL)



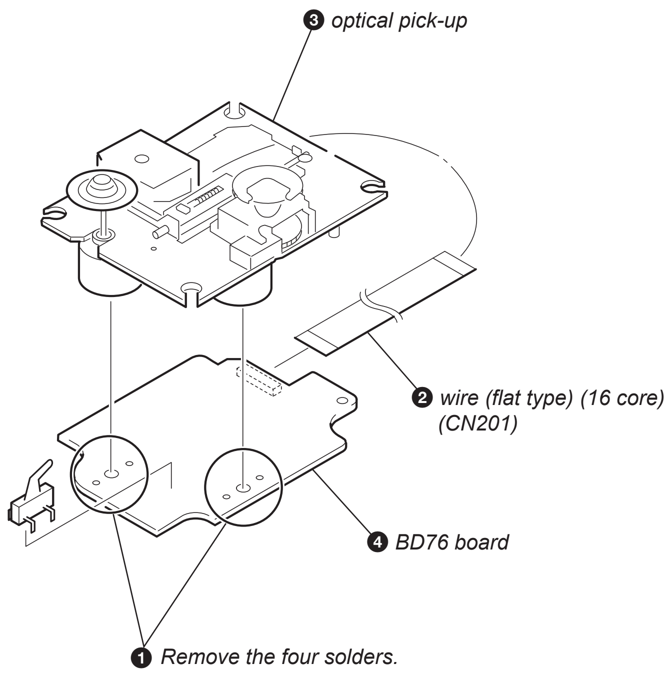
2-8. CD MECHANISM DECK



2-9. BASE UNIT



2-10. OPTICAL PICK-UP



SECTION 3
TEST MODE

COLD RESET

The cold reset clears all data including preset data stored in the memory to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. In the standby status, press the [I/⏻] button to turn the power on.
2. Press three buttons of [■], [FUNCTION] and [I/⏻] simultaneously.
3. When "RESET" appears, the set enters standby status.

PANEL TEST MODE

Enter The Panel Test Mode

Procedure:

1. In the standby status, press the [I/⏻] button to turn the power on.
2. Press three buttons of [■], [OPTIONS] and [I/⏻] simultaneously.
3. When the panel test mode is activated, all LEDs and segments of the liquid crystal display panel are all turned on.

Version Check

Procedure:

1. In the panel test mode (all LEDs and segments of the liquid crystal display panel are turned on), press the [FUNCTION] button.
2. On the liquid crystal display panel, date and version are displayed "xxxxVxxx".
3. From this status, press the [►II] button, and the destination and model name are displayed.
4. To release from this mode, press three buttons of [■], [OPTIONS] and [I/⏻] simultaneously.

Key Test Mode

Procedure:

1. In the panel test mode (all LEDs and segments of the liquid crystal display panel are turned on), press the [■] button.
2. The message "KEY0 0 0" displayed. Whenever any buttons are pressed and the [VOLUME] control is turned, the value is changed.
3. To release from this mode, press three buttons of [■], [OPTIONS] and [I/⏻] simultaneously.

CD TRAY LOCK

This mode is for the antitheft of CD disc in shop. (not for transport)

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to select CD function.
3. Insert a disc.
4. While pressing the [■] button for more 5 seconds.
5. The message "CHILD LOCK ON" is displayed and the disc tray is locked. (Even if releasing from this mode, the disc tray is still locked)
6. If press the [⏏] button to eject the disc, the message "CHILD LOCK" is displayed and can not eject the disc.
7. To release this lock, while pressing the [■] button for 5 seconds again.
8. The message "CHILD LOCK OFF" is displayed and the disc tray is unlocked.

CD POWER MANAGE

This mode is for switch the CD power supply on/off. Even if this state pulls out AC plug, it is held.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to select CD function.
3. Press the [I/⏻] button again to turn the power off (clock mode).
4. After pressing the [DISPLAY] button on the remote commander, while pressing the [■] button, press the [I/⏻] button.
5. It turns power on and display "CD/USB", then display "PWR ON" or "PWR OFF".

CHANGE-OVER THE AM TUNING INTERVAL

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

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to select TUNER AM function.
3. Press the [I/⏻] button again to turn the power off (clock mode).
4. After pressing the [DISPLAY] button on the remote commander, while pressing the [TUNING + ►► ▷▷I] button, press the [I/⏻] button.
5. It turns power on and display "9k STEP" or "10k STEP", and thus the tuning interval is changed over.

CD SHIP MODE

This mode can run the CD sled motor optionally. Use this mode, for instance, when cleaning the optical pick-up.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Confirm there is no disc in tray.
3. Press the [FUNCTION] button to select CD function.
4. Press two buttons of [■] and [I/⏻] simultaneously.
5. Set to the CD ship mode (chucking on).
6. After blink "STANDBY", "CHILD LOCK ON" is displayed, disconnect the AC plug.

CD SHIP AND COLD RESET

Procedure:

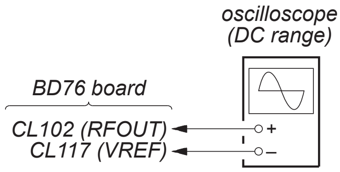
1. Press the [I/⏻] button to turn the power on.
2. Confirm there is no disc in tray.
3. Press the [FUNCTION] button to select CD function.
4. Press three buttons of [ENTER], [TUNING– I◁◁ ◄◄] and [I/⏻] simultaneously.
5. After blink "STANDBY", "RESET" is displayed, disconnect the AC plug.

SECTION 4
ELECTRICAL ADJUSTMENTS

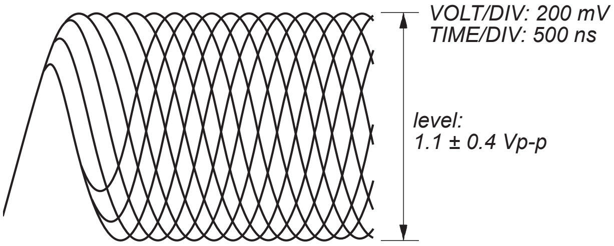
CD SECTION

Note:
1. CD Block is basically constructed to operate without adjustment.
2. Use YEDS-18 disc (Part No. 3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10 MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Check the focus bias check when optical pick-up block is replaced.

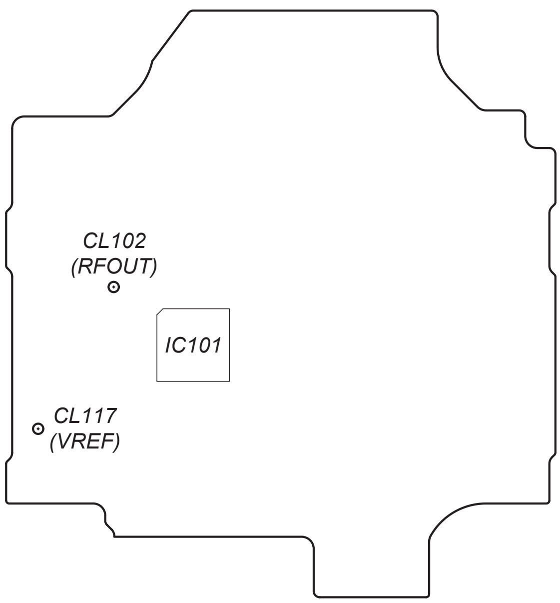
FOCUS BIAS CHECK



Procedure:
1. Connect the oscilloscope to CL102 (RFOUT) and CL117 (VREF) on the BD76 board.
2. Press the [I/⏻] button to turn the power on, and press the [FUNCTION] button to select CD function.
3. Set disc (YEDS-18) and press the [►II] button to playback.
4. Confirm that oscilloscope waveform is as shown in the figure below (eye pattern).
   A good eye pattern means that the diamond shape (◊) in the center of the waveform can be clearly distinguished.



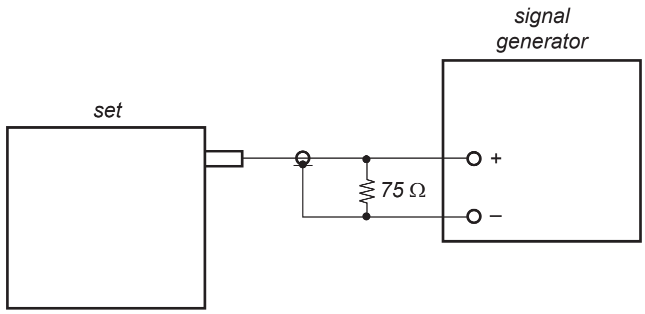
Checking Location:
– BD76 Board (Side B) –



TUNER SECTION

0 dB = 1 μV

FM AUTO STOP CHECK



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

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

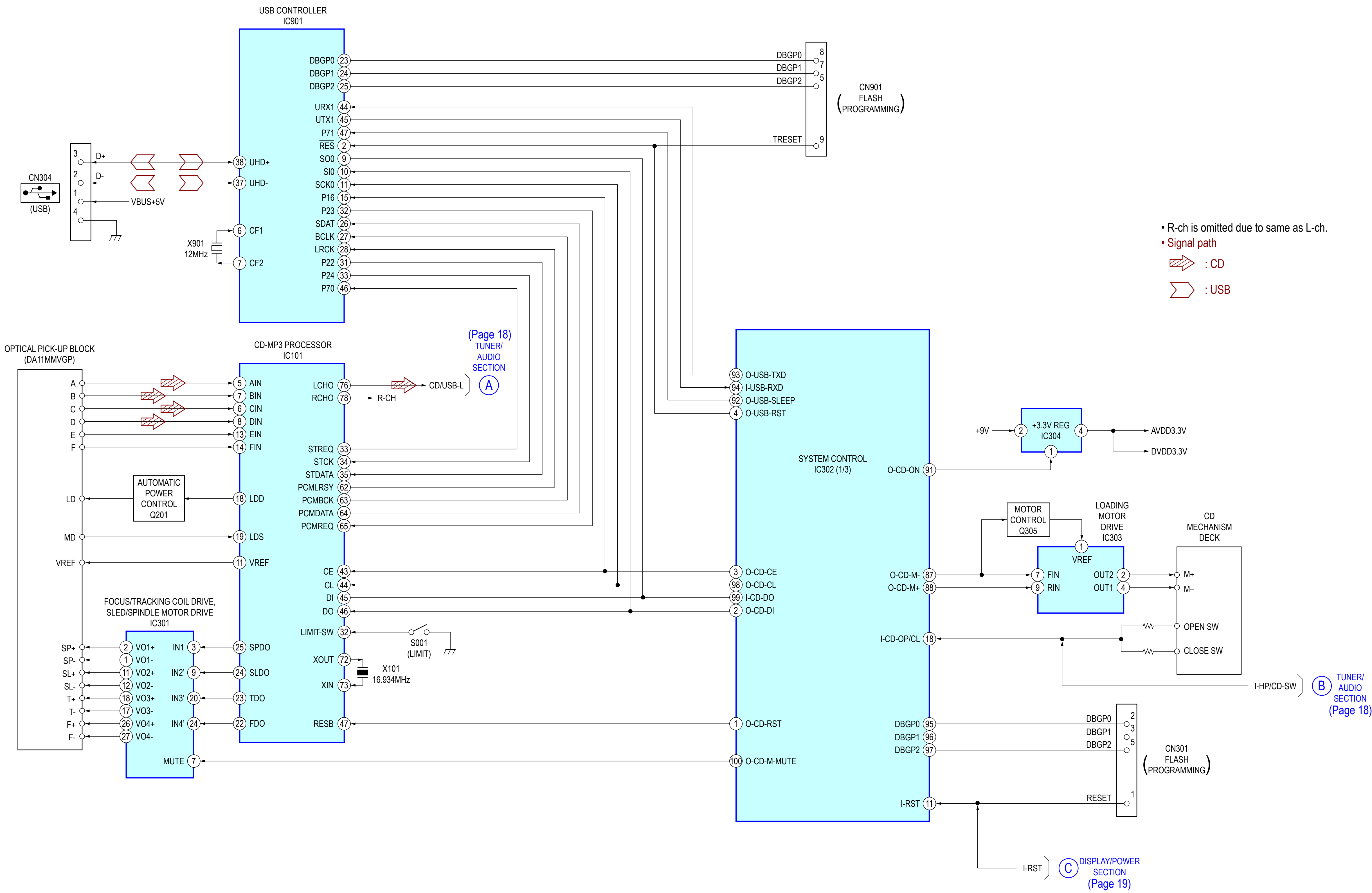
Note: Please use 75 ohm "coaxial cable" to connect SG and the set. You cannot use video cable for checking.
Please use SG whose output impedance is 75 ohm.

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

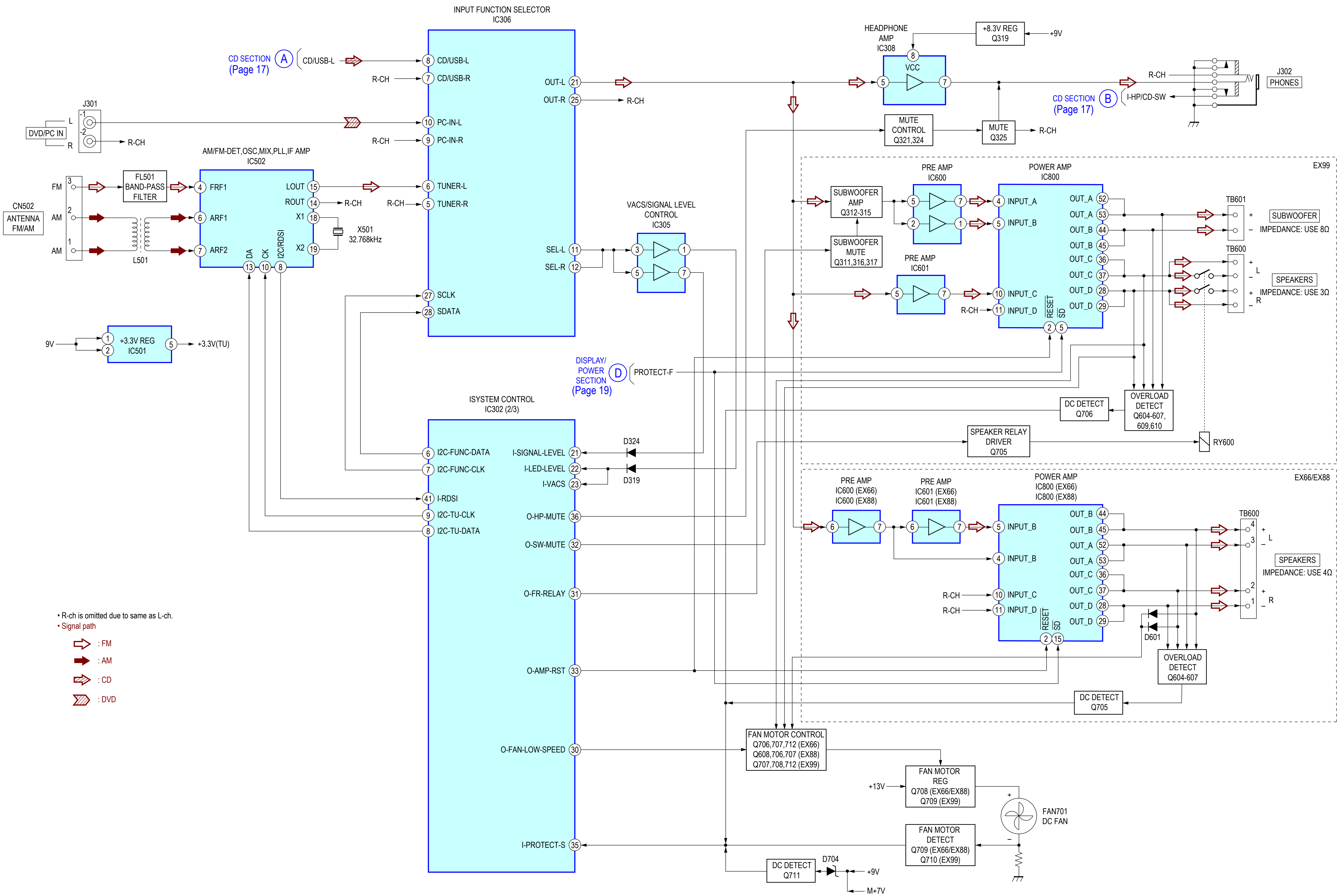
The stop of automatic scanning means "The station signal is received in good condition".

SECTION 5
DIAGRAMS

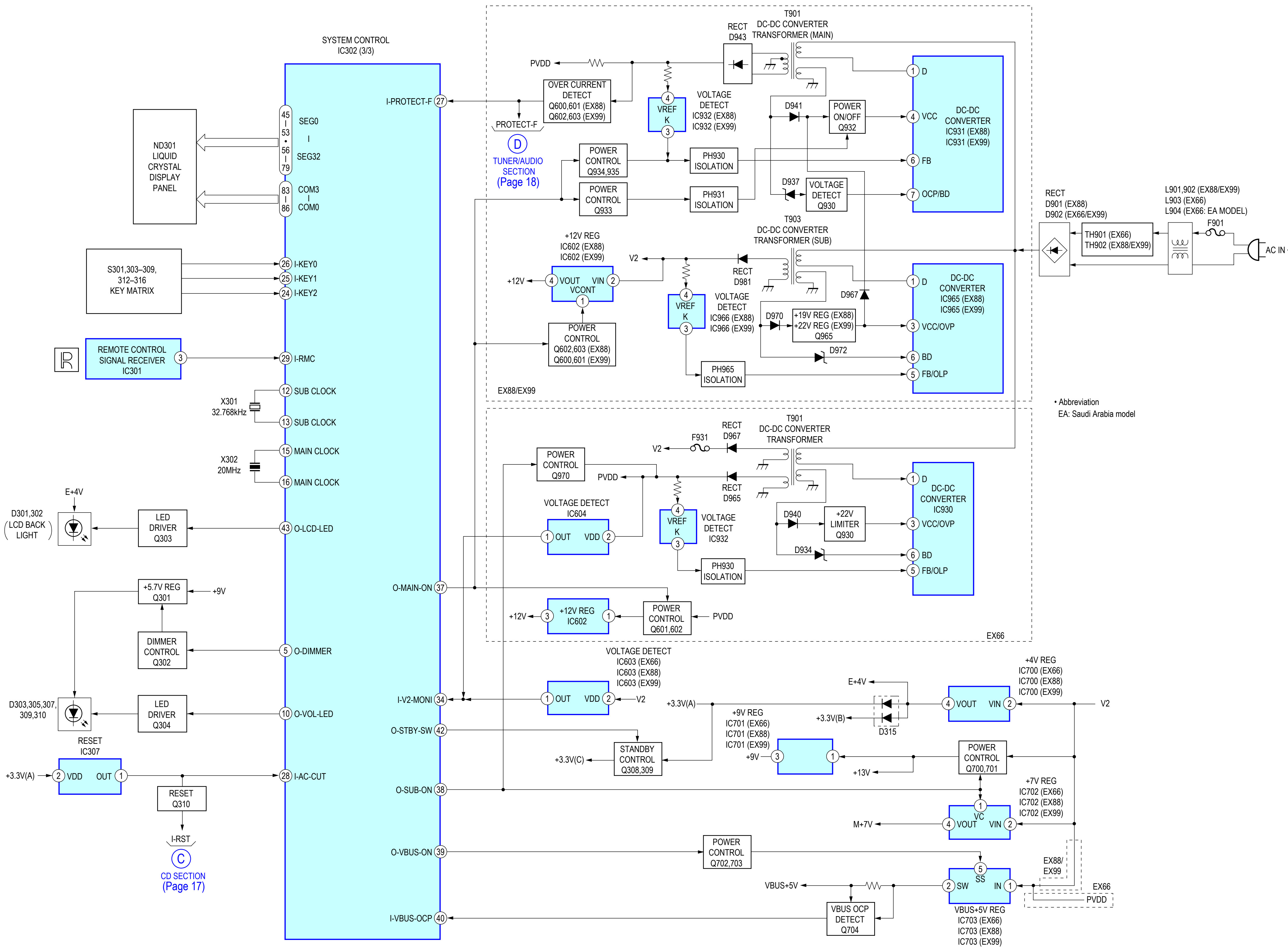
5-1. BLOCK DIAGRAM –CD Section –



5-2. BLOCK DIAGRAM –TUNER/AUDIO Section –



5-3. BLOCK DIAGRAM –DISPLAY/POWER Section –



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

For Printed Wiring Boards.

Note:
- : Parts extracted from the component side.
- : Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

Caution:

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

- Abbreviation
  AR : Argentina model
  E2 : 120V AC area in E model
  E4 : 220 – 240V AC area in E model
  E51 : Chilean and Peruvian models
  EA : Saudi Arabia model
  MX : Mexican model

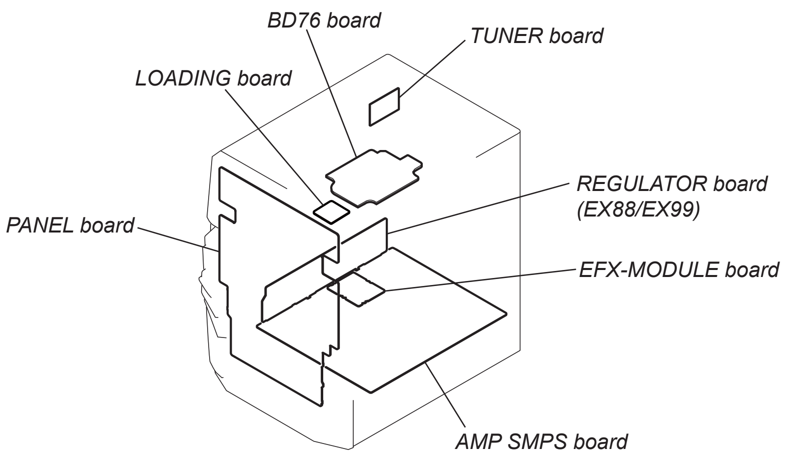
For Schematic Diagrams.

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

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

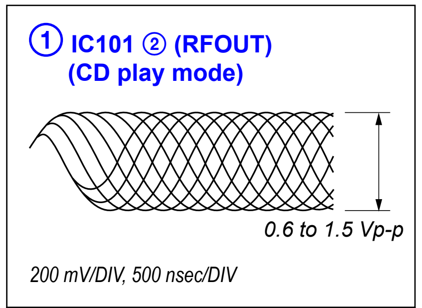
- : B+ Line.
- : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  – BD76 Board –
  no mark: CD PLAY
  – Other Boards –
  no mark: TUNER (FM/AM)
  * : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : TUNER (FM)
  : TUNER (AM)
  : CD
  : USB
  : DVD/PC IN
- Abbreviation
  AR : Argentina model
  E2 : 120V AC area in E model
  E4 : 220 – 240V AC area in E model
  E51 : Chilean and Peruvian models
  EA : Saudi Arabia model
  MX : Mexican model

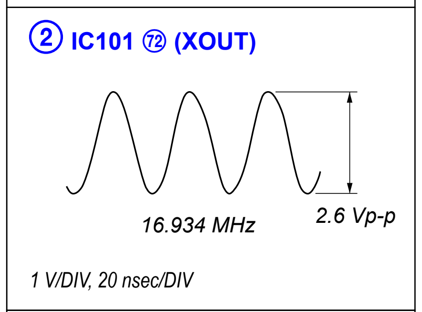
- **Circuit Boards Location**

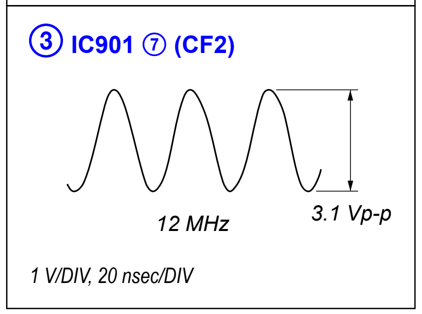


- **Waveforms**

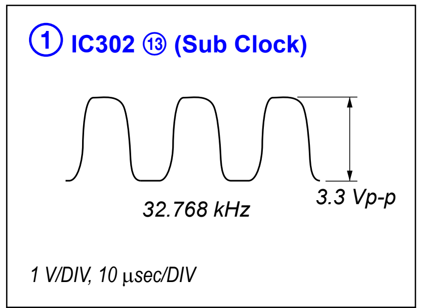
– BD76 Board –

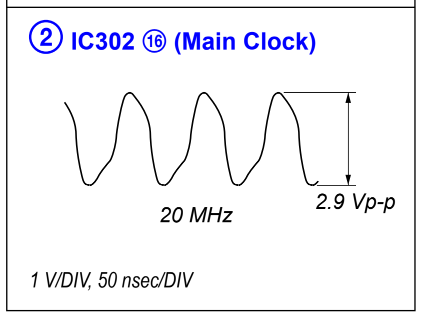




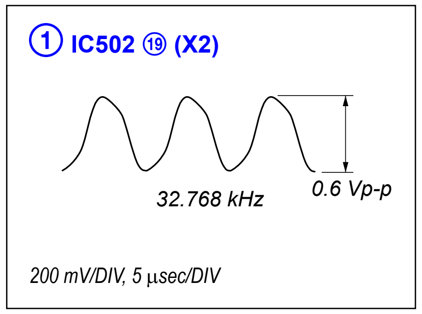


– PANEL Board –



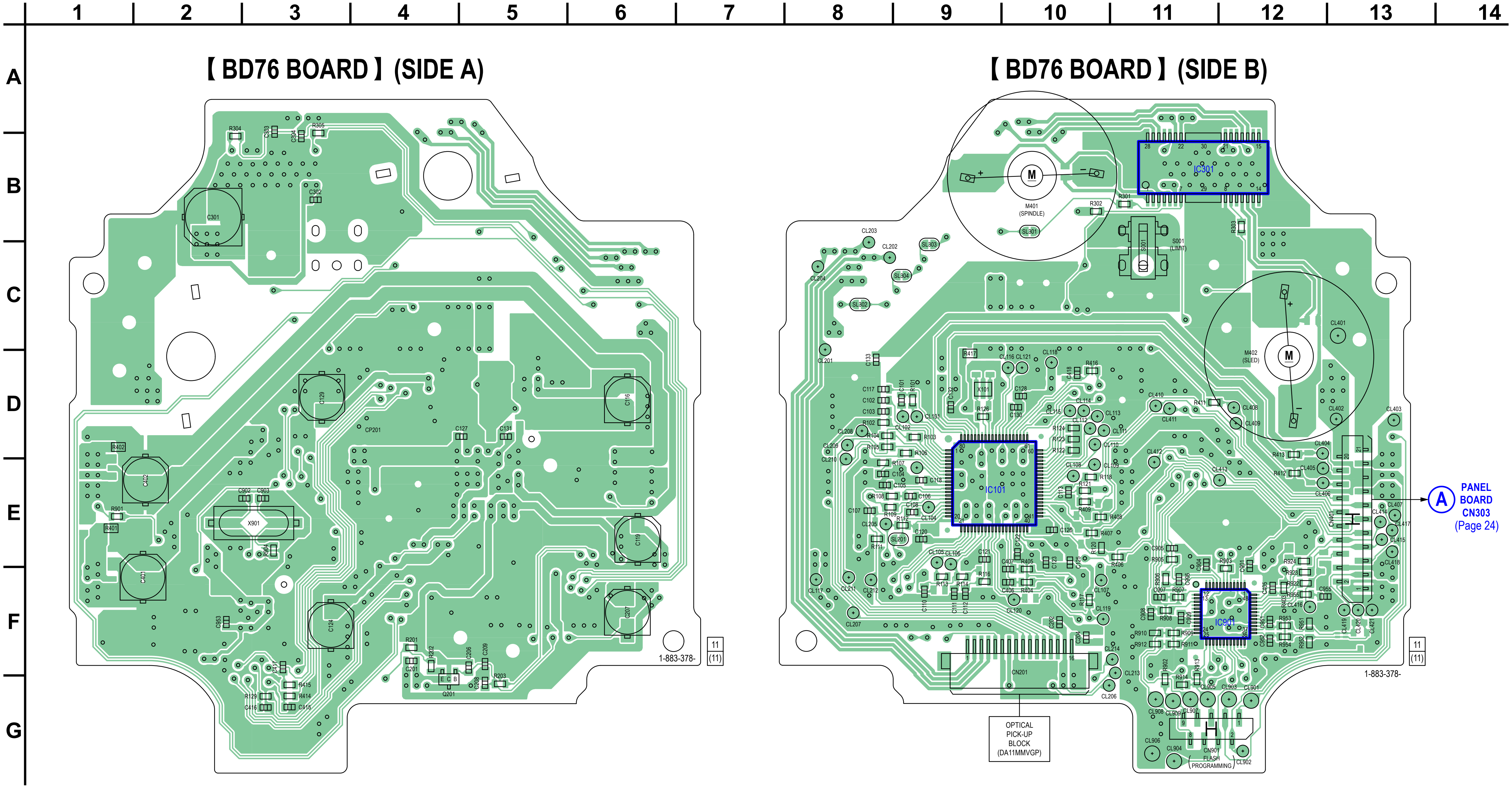


– TUNER Board –



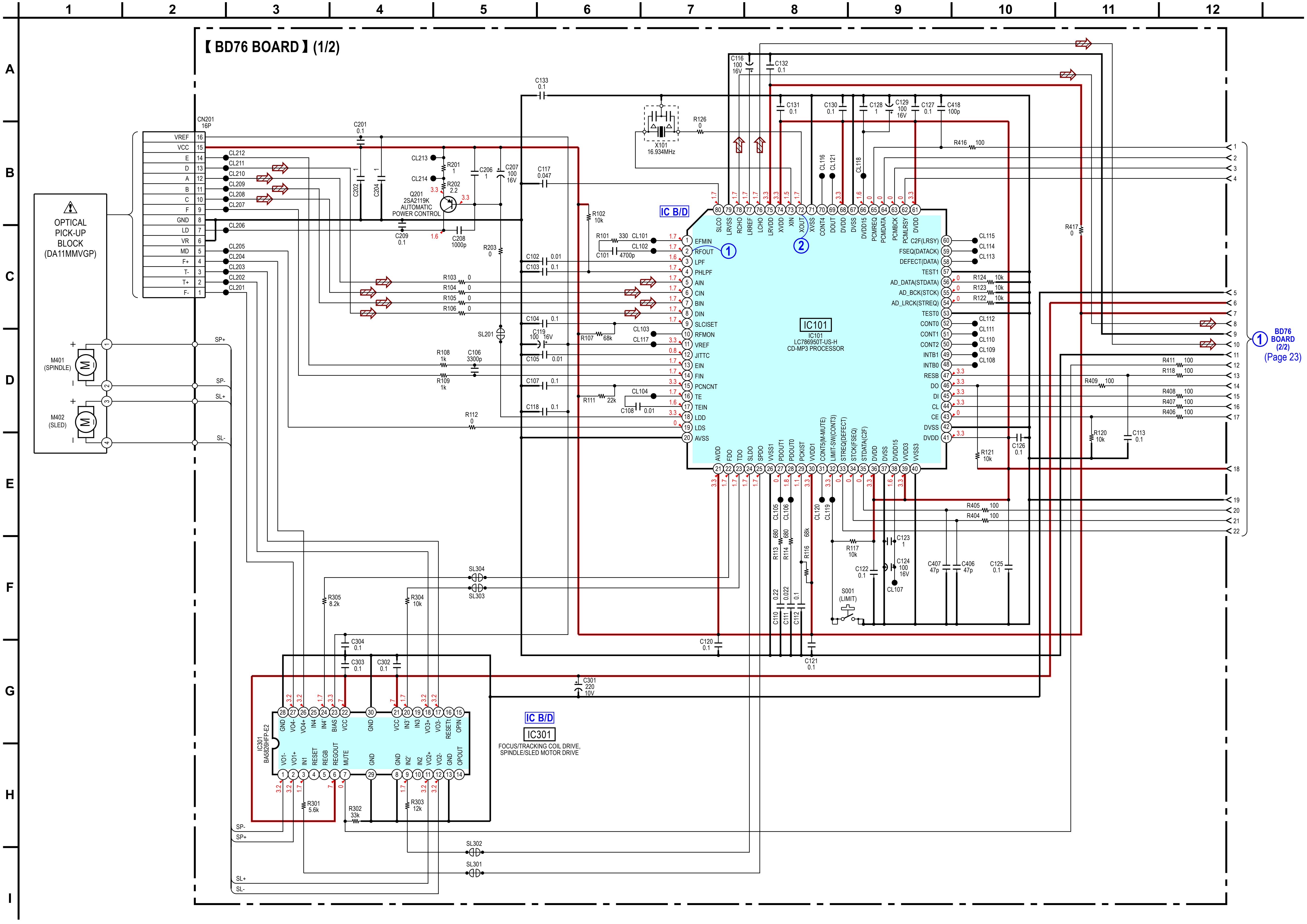
5-4. PRINTED WIRING BOARD – CD Section –

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



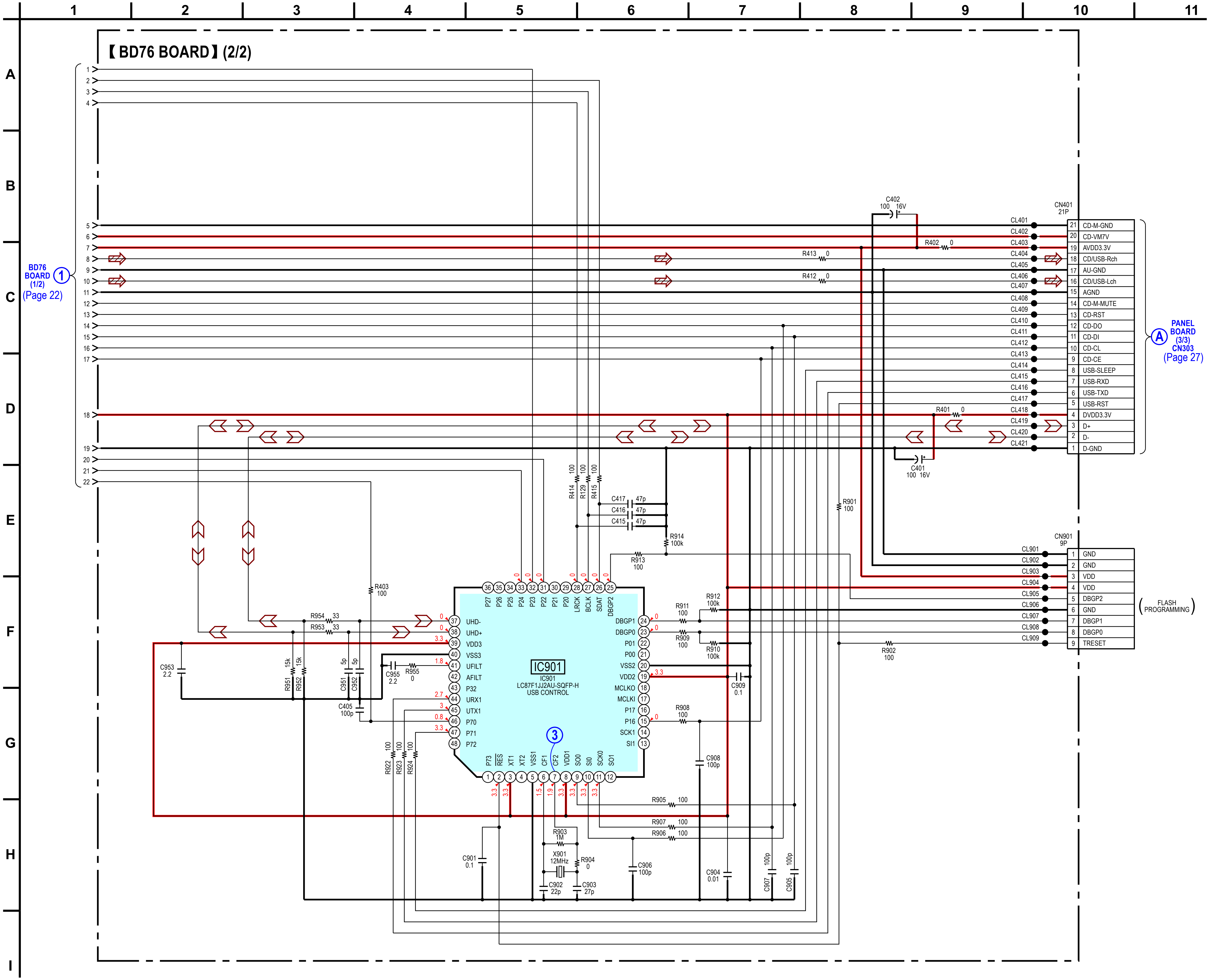
5-5. SCHEMATIC DIAGRAM – CD Section (1/2) –

• See page 20 for Waveforms. • See page 44 for IC Block Diagrams.

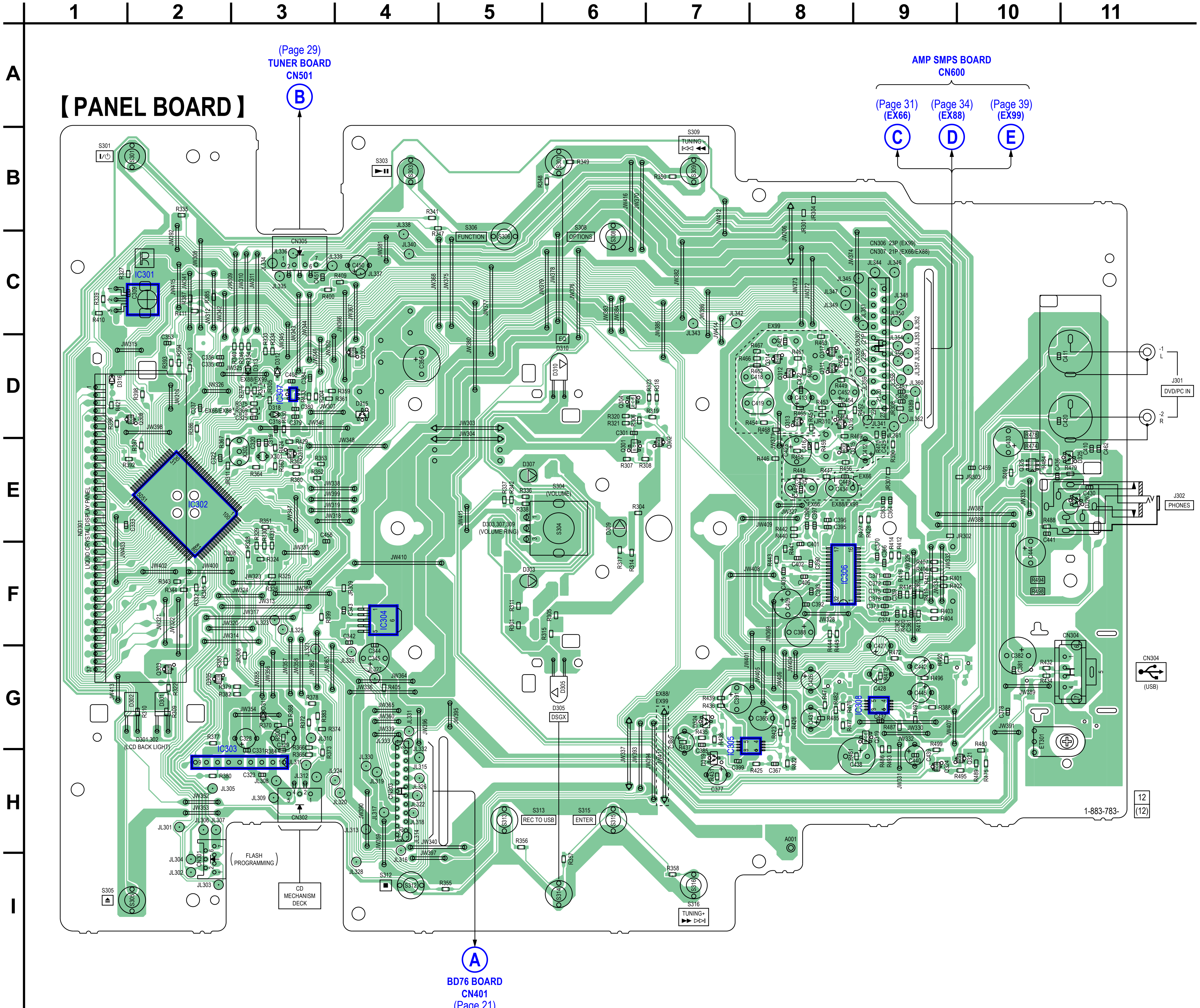


5-6. SCHEMATIC DIAGRAM – CD Section (2/2) –

• See page 20 for Waveforms. • See page 48 for IC Pin Function Descriptions of IC901.

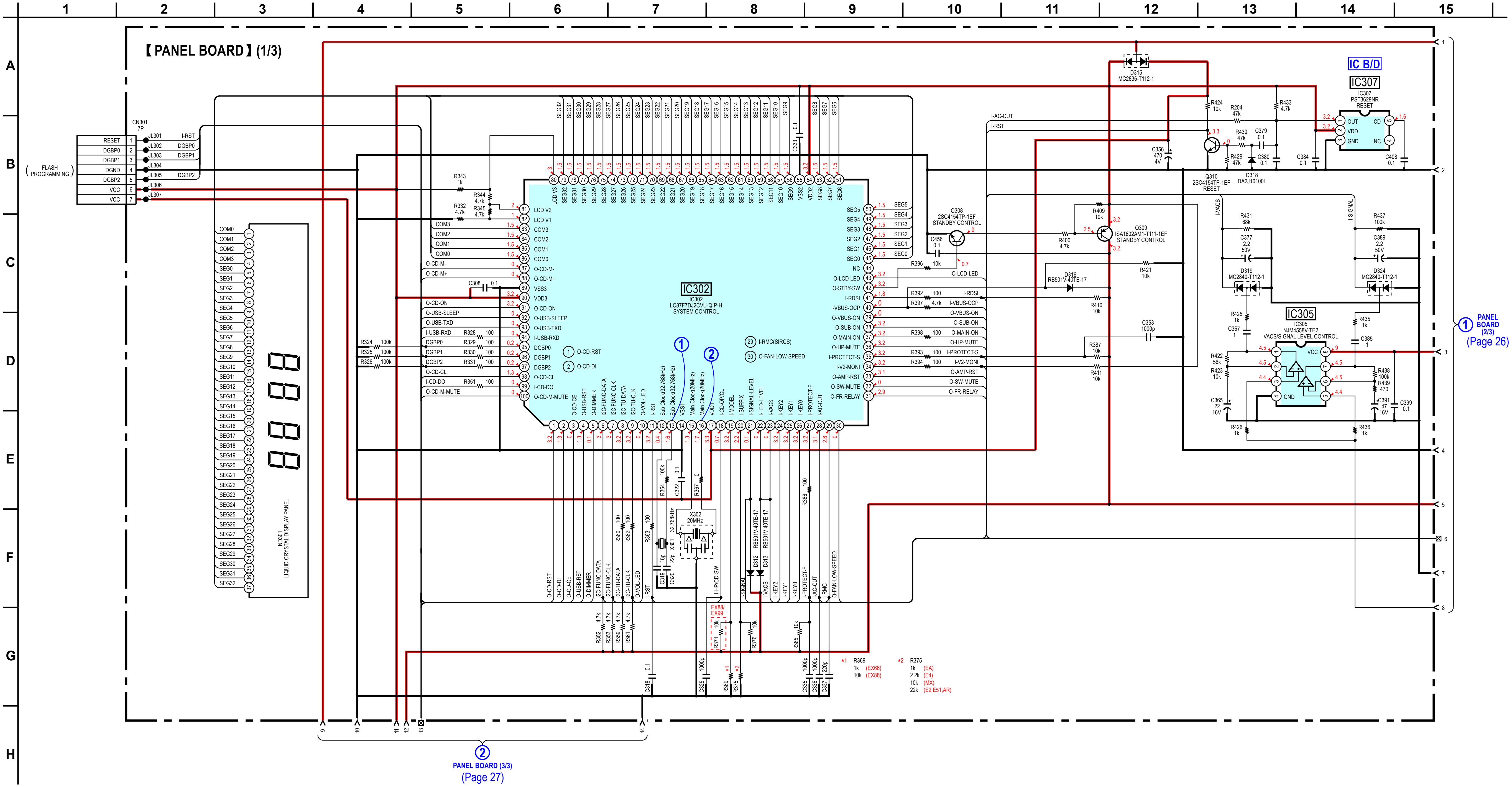


5-7. PRINTED WIRING BOARD – PANEL Section – • See page 20 for Circuit Boards Location. • : Uses unleaded solder.



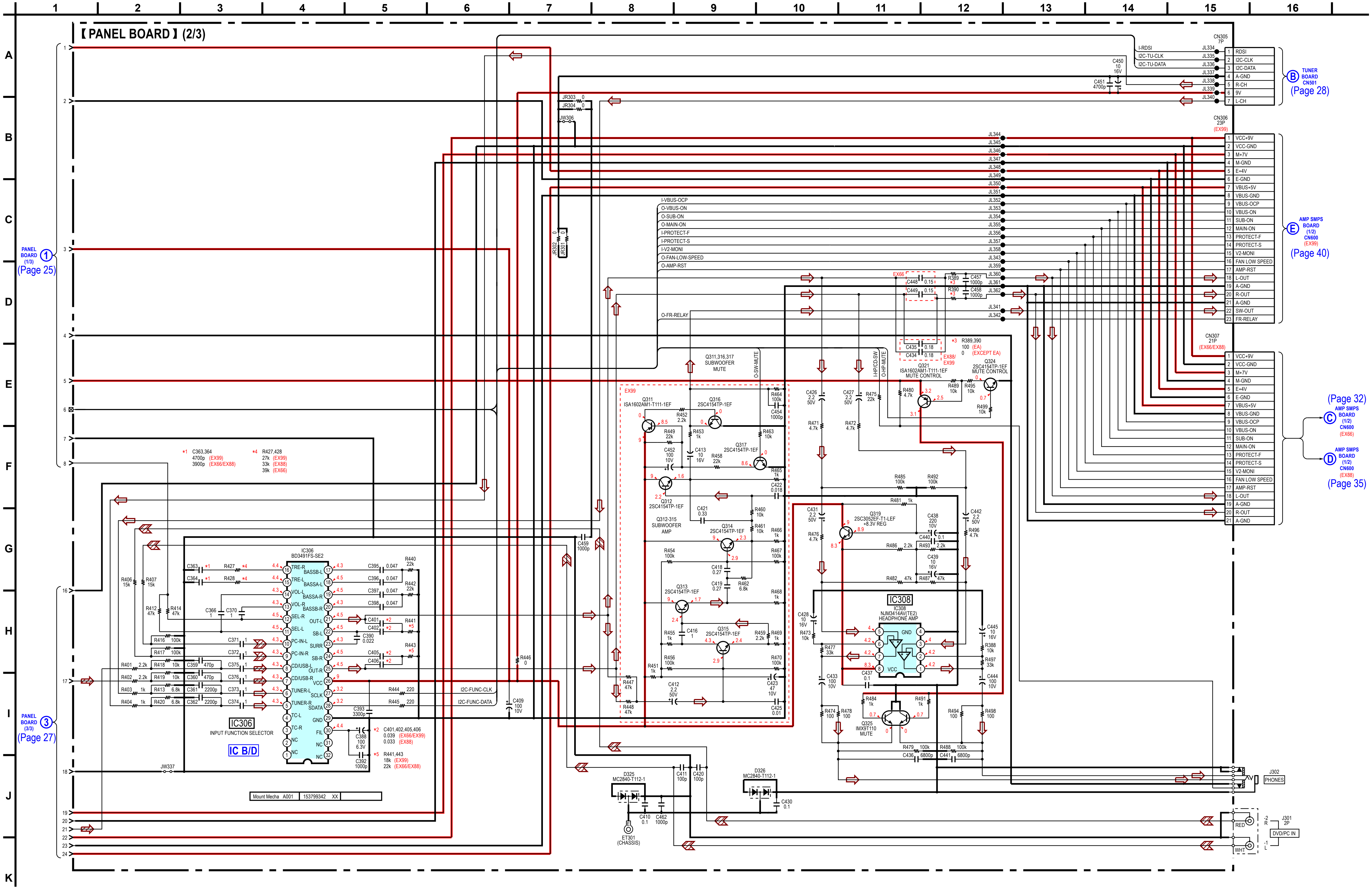
5-8. SCHEMATIC DIAGRAM – PANEL Section (1/3) –

• See page 20 for Waveforms. • See page 44 for IC Block Diagrams. • See page 49 for IC Pin Function Descriptions of IC302.



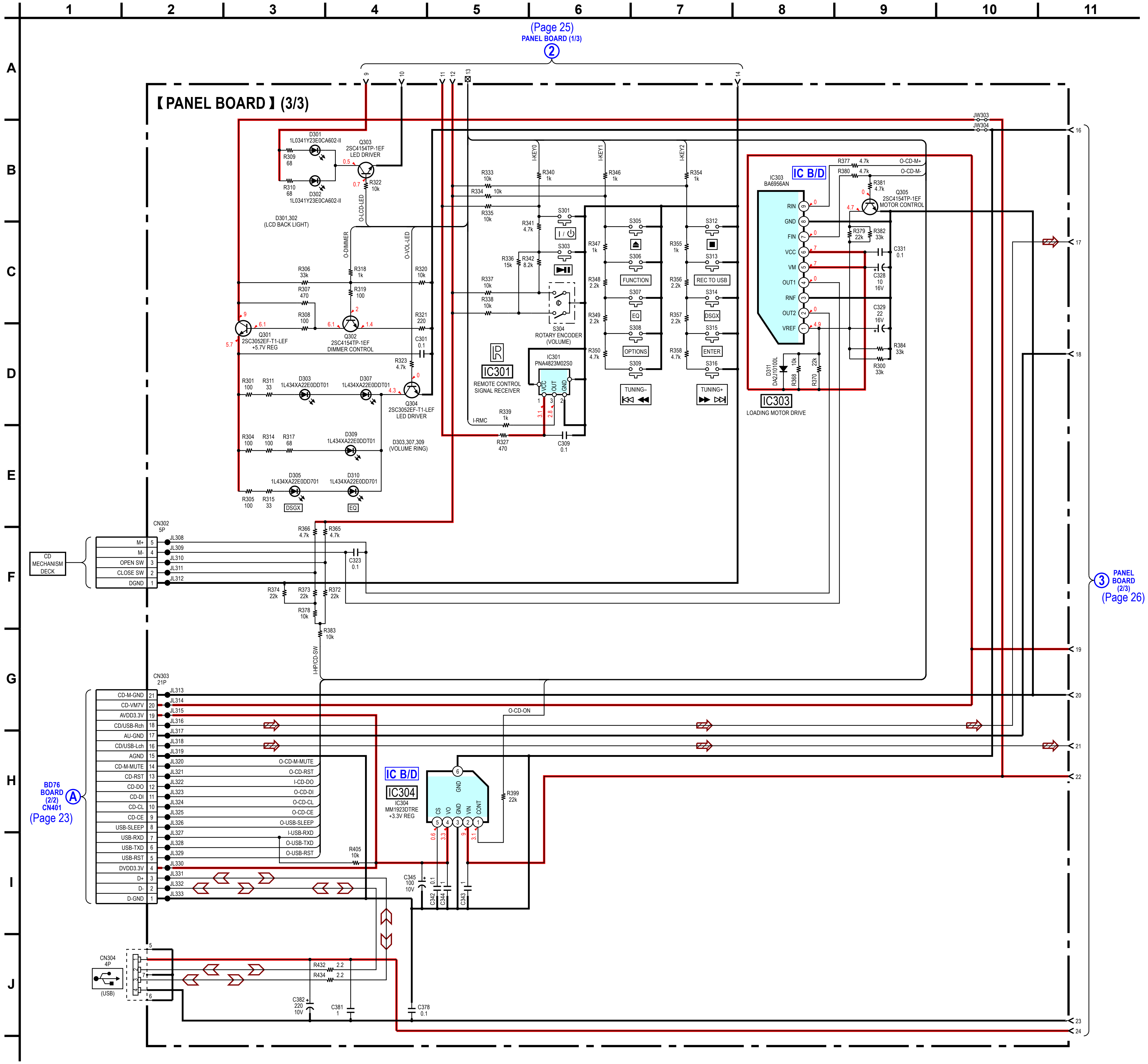
5-9. SCHEMATIC DIAGRAM – PANEL Section (2/3) –

• See page 44 for IC Block Diagrams.



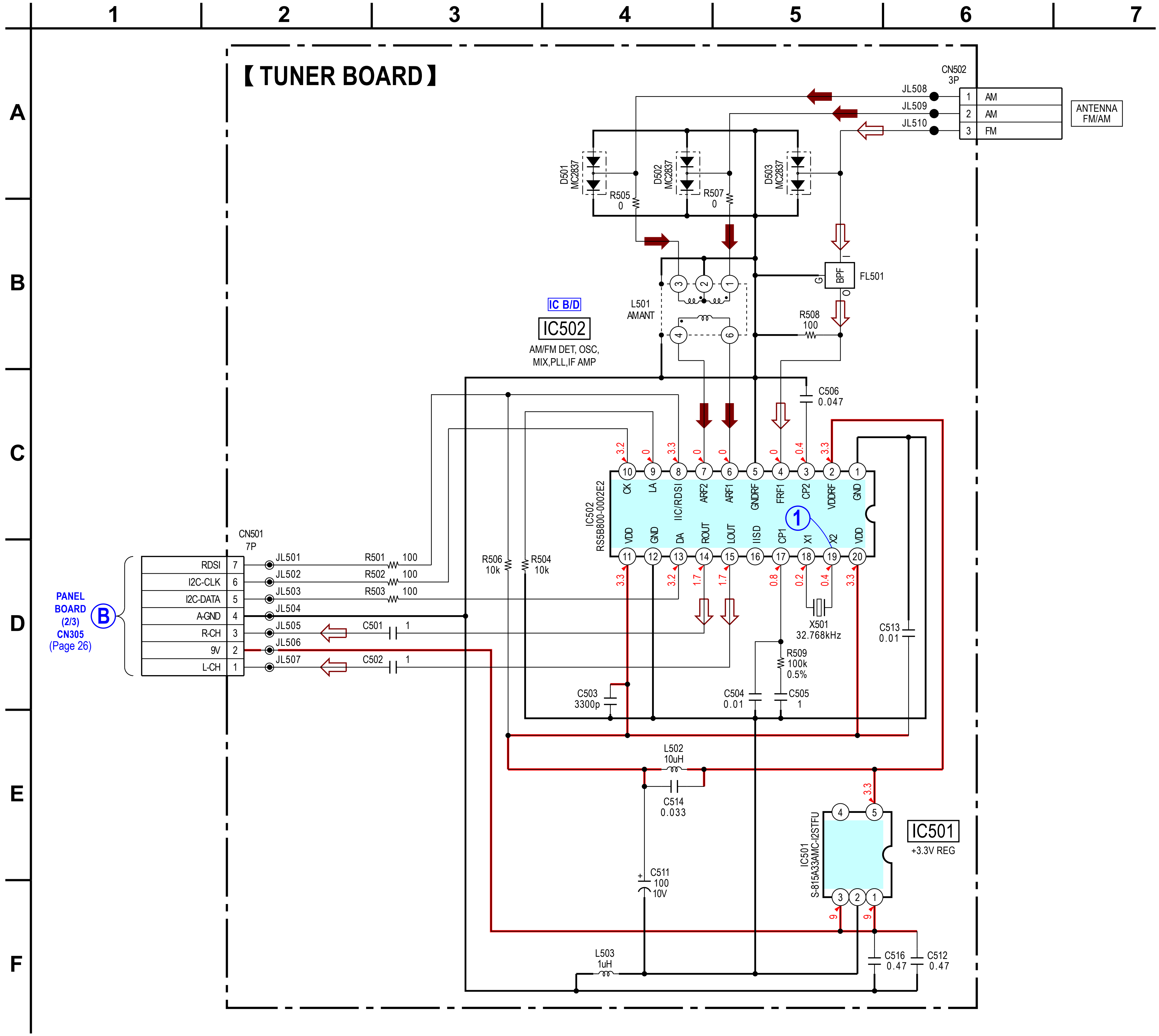
5-10. SCHEMATIC DIAGRAM – PANEL Section (3/3) –

• See page 45 for IC Block Diagrams.



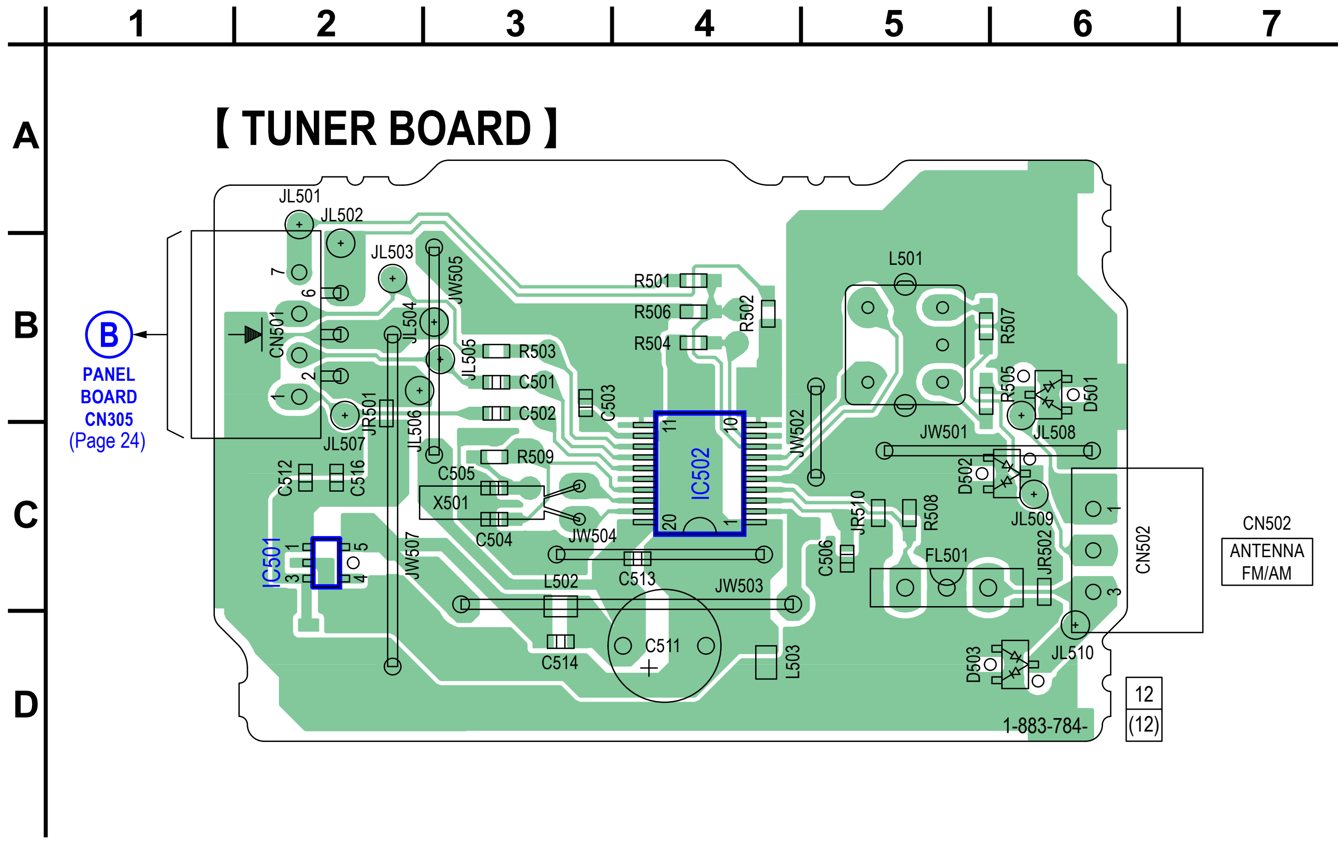
5-11. SCHEMATIC DIAGRAM – TUNER Section –

• See page 20 for Waveforms. • See page 45 for IC Block Diagrams.



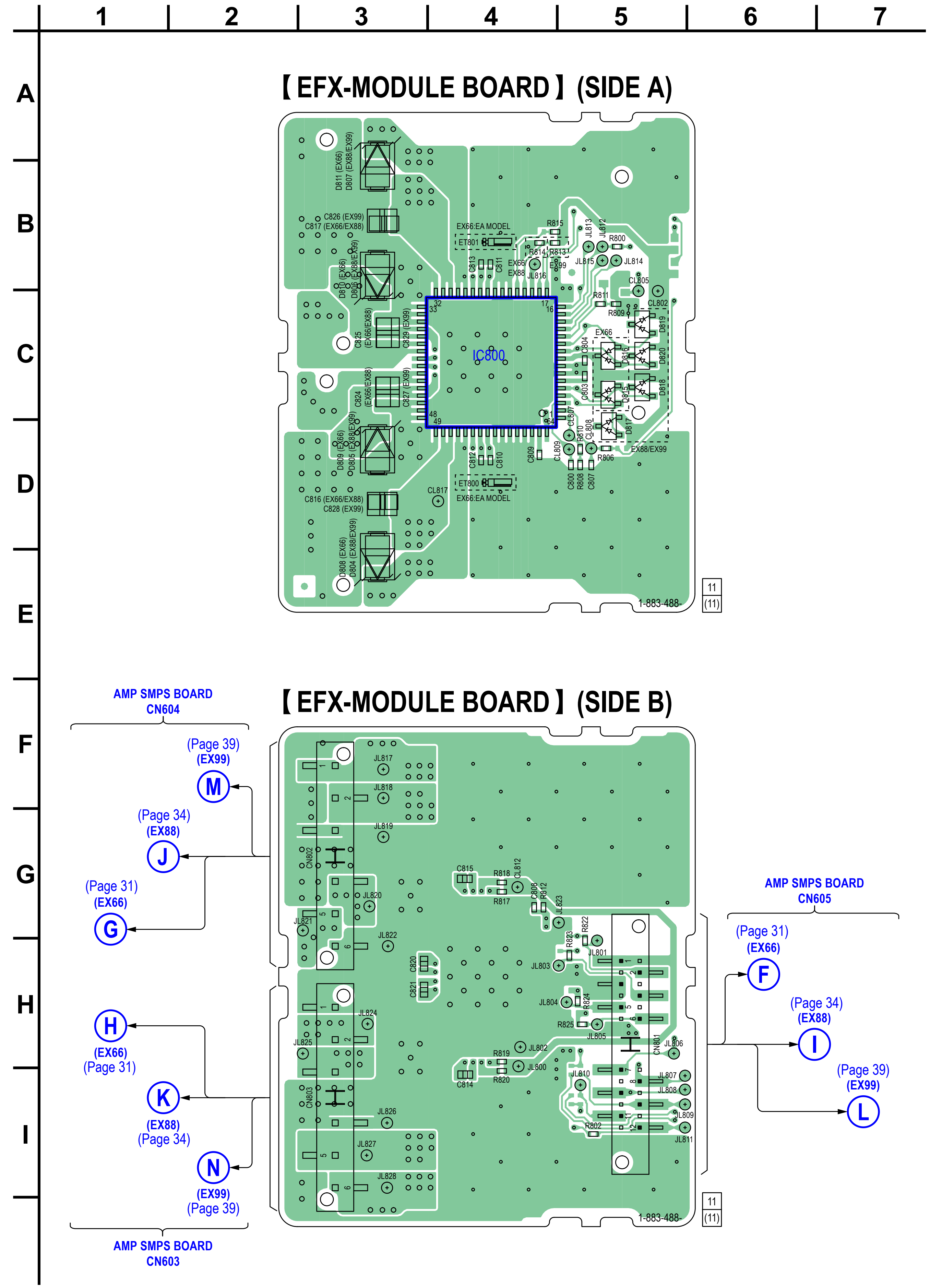
5-12. PRINTED WIRING BOARD – TUNER Section –

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

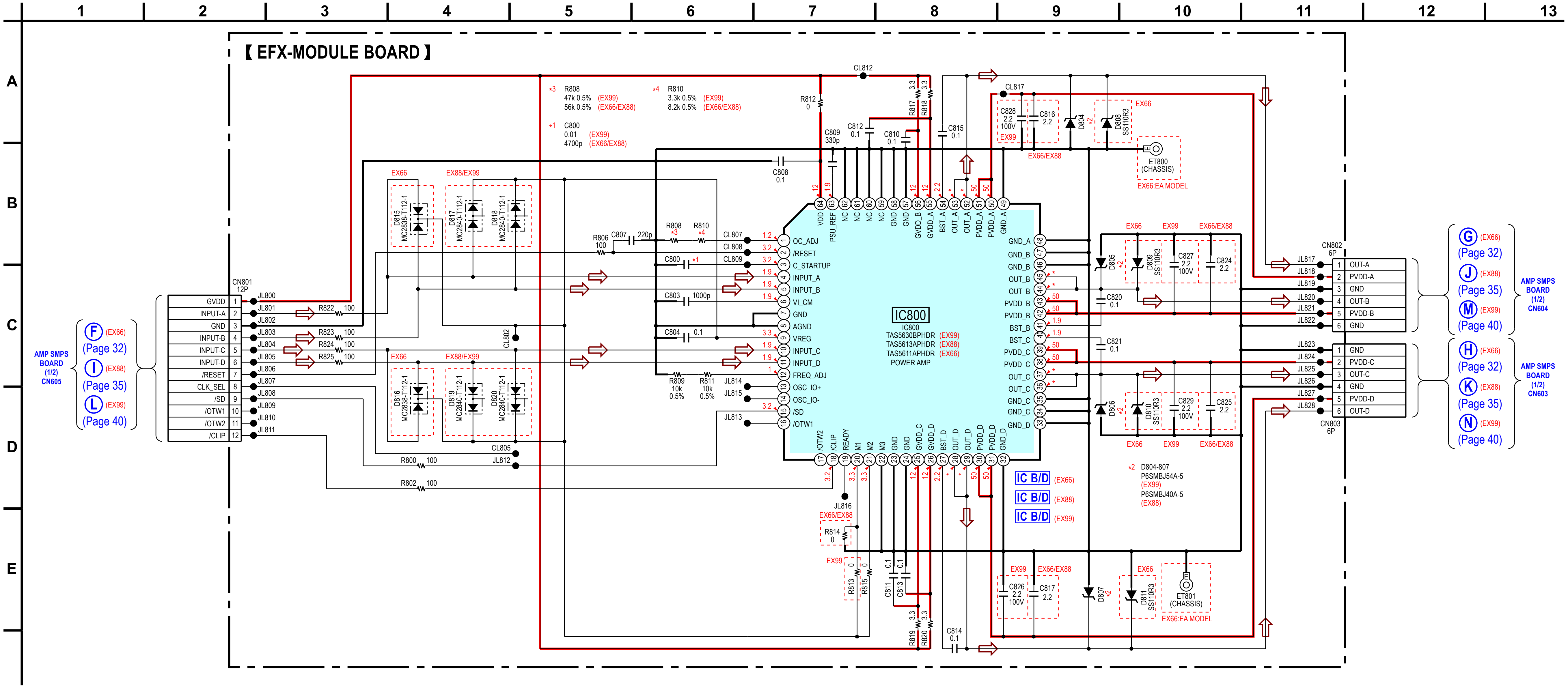


5-13. PRINTED WIRING BOARD – MODULE Section –

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

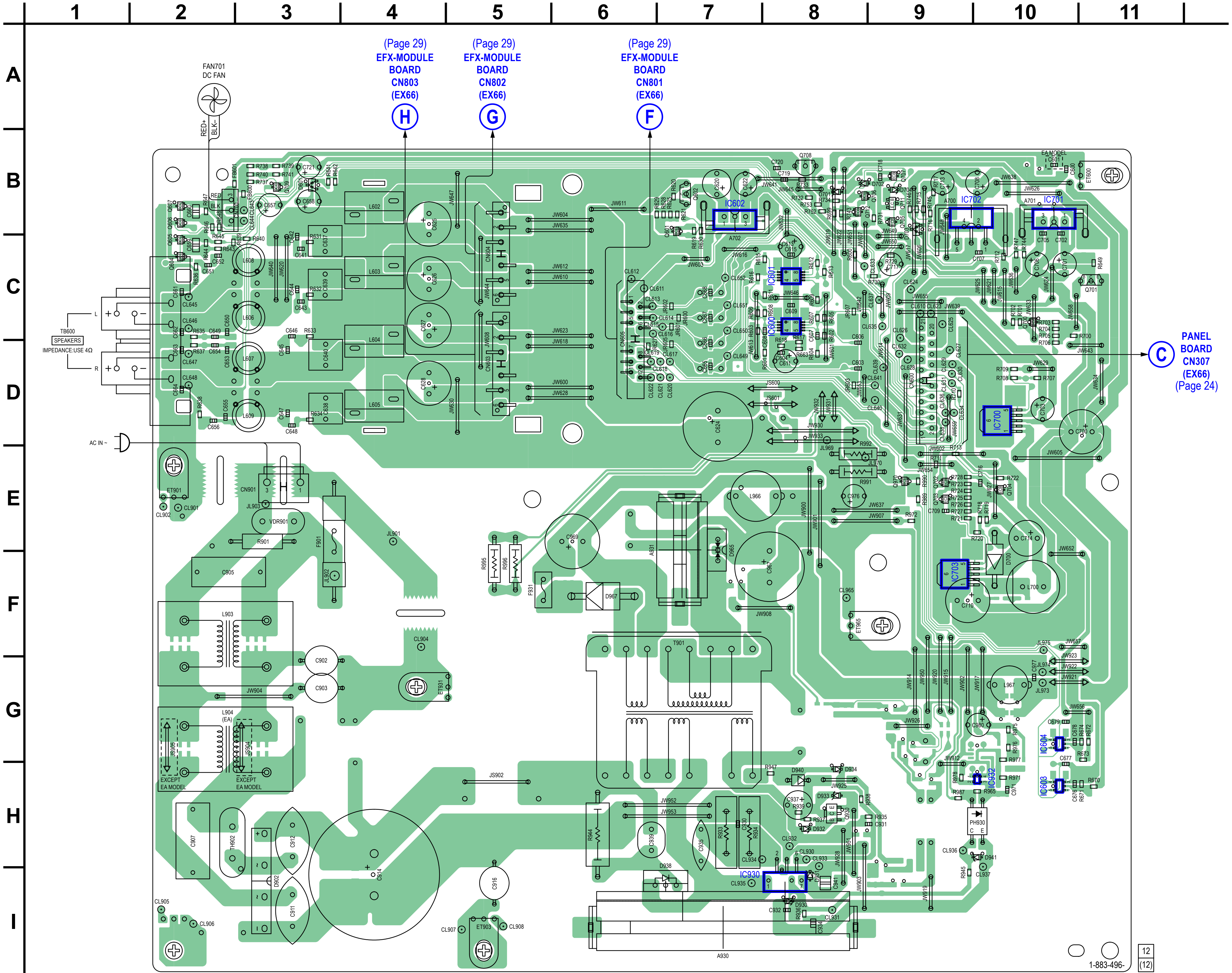


5-14. SCHEMATIC DIAGRAM – MODULE Section – • See page 45 for IC Block Diagrams.



5-15. PRINTED WIRING BOARD – AMP SMPS Section (HCD-EX66) –

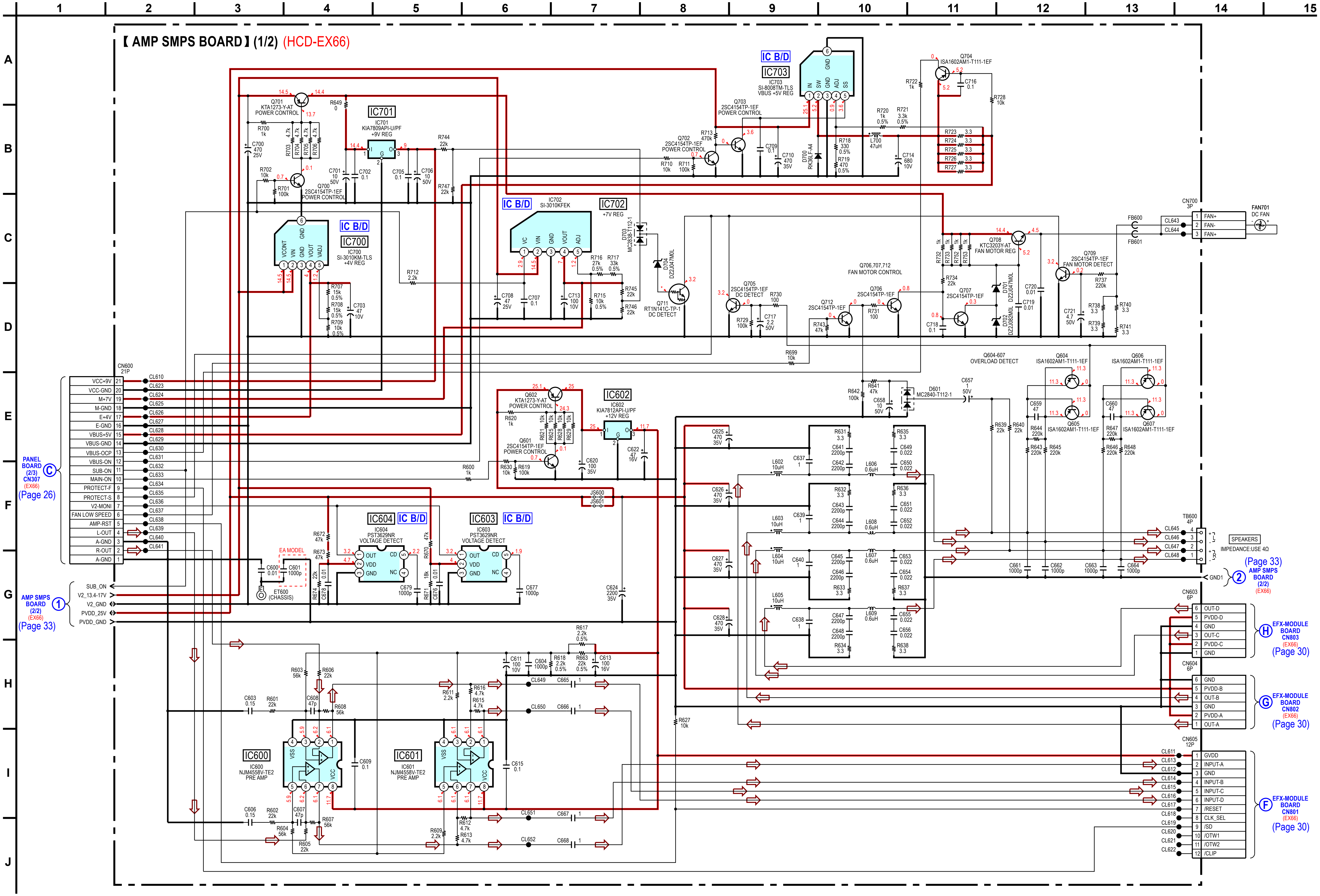
• See page 20 for Circuit Boards Location. • : Uses unleaded solder.



【AMP SMPS BOARD】(HCD-EX66)

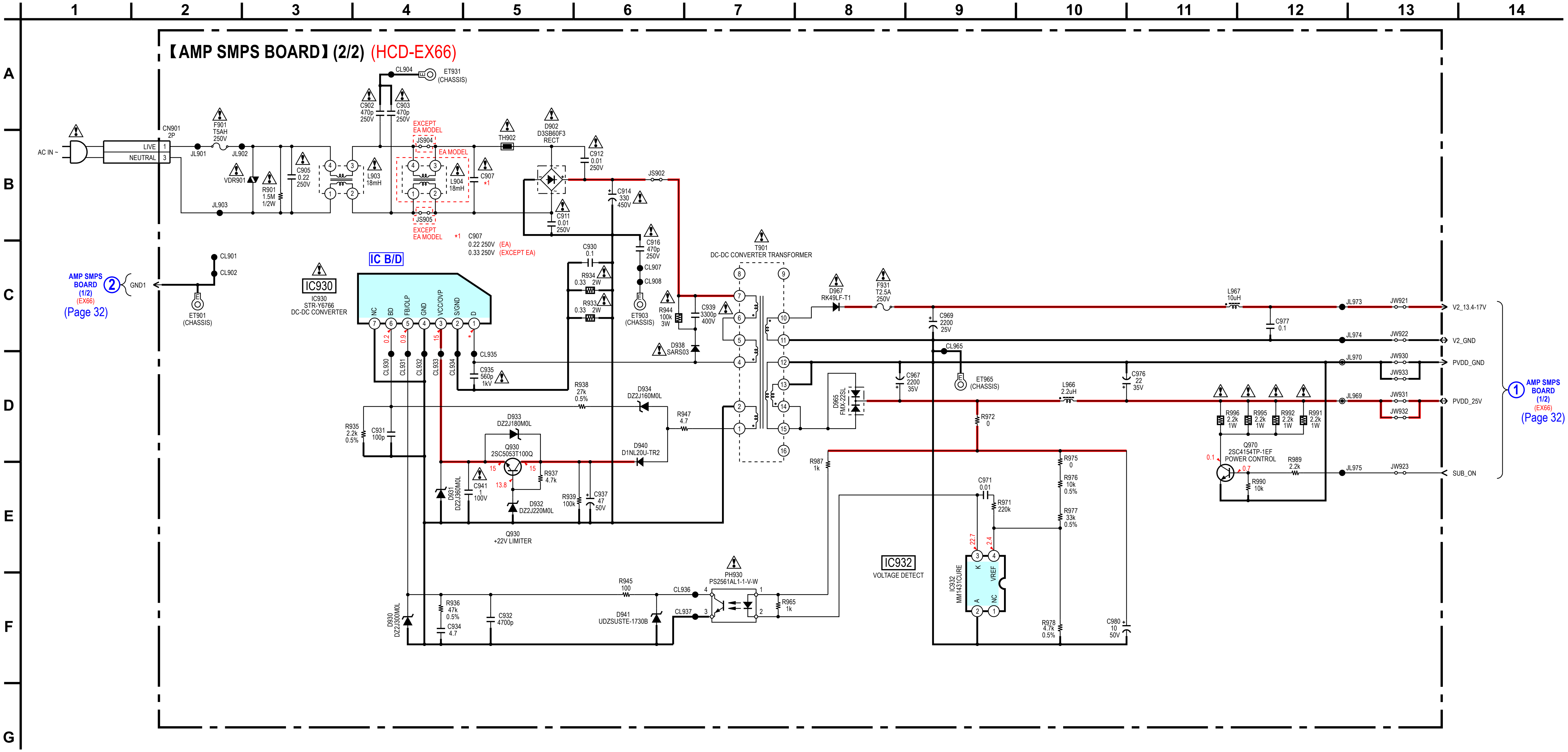
5-16. SCHEMATIC DIAGRAM – AMP SMPS Section (1/2) (HCD-EX66) –

• See page 44 for IC Block Diagrams.

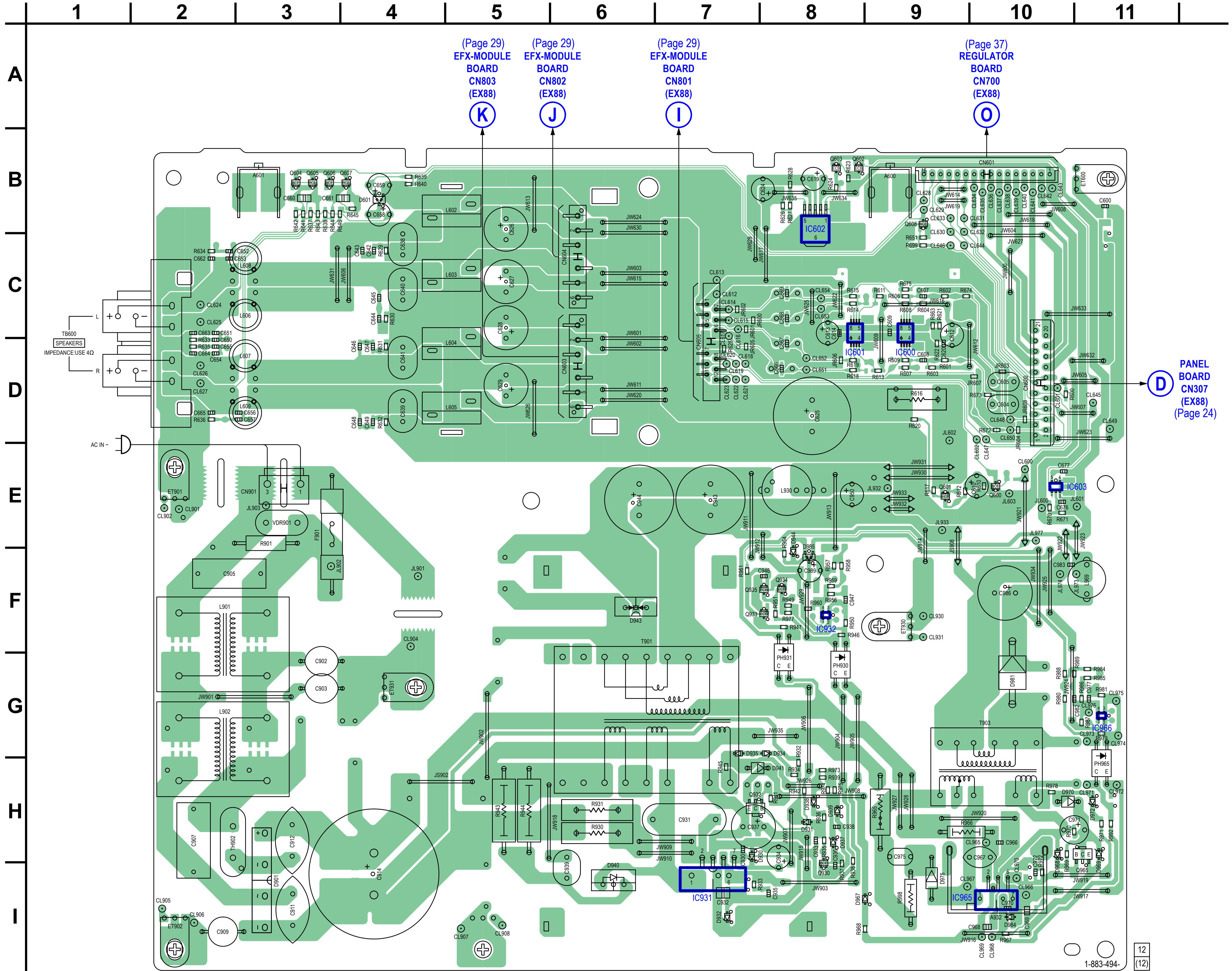


5-17. SCHEMATIC DIAGRAM – AMP SMPS Section (2/2) (HCD-EX66) –

• See page 47 for IC Block Diagrams.

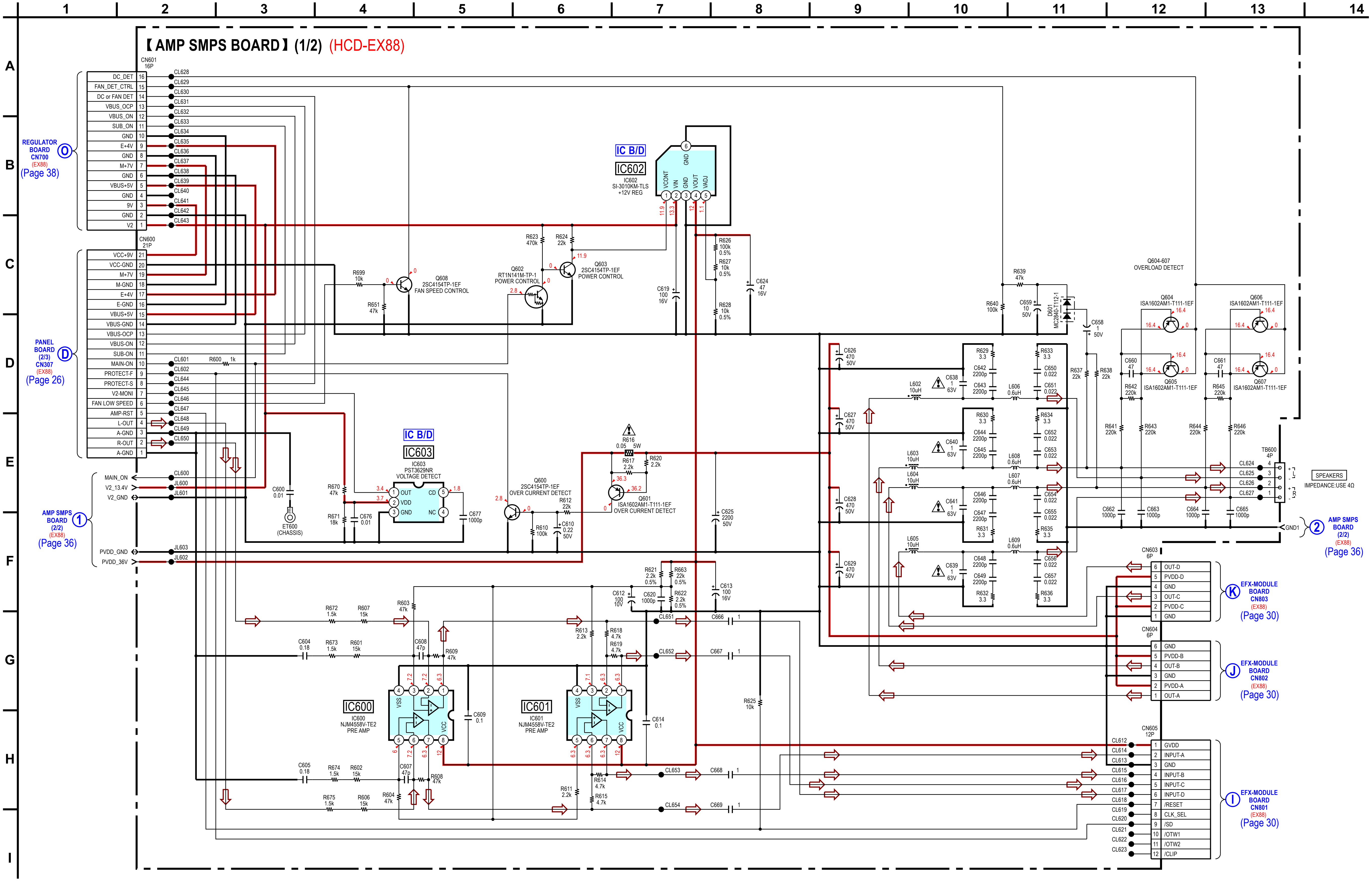


5-18. PRINTED WIRING BOARD – AMP SMPS Section (HCD-EX88) – • See page 20 for Circuit Boards Location. • : Uses unleaded solder.

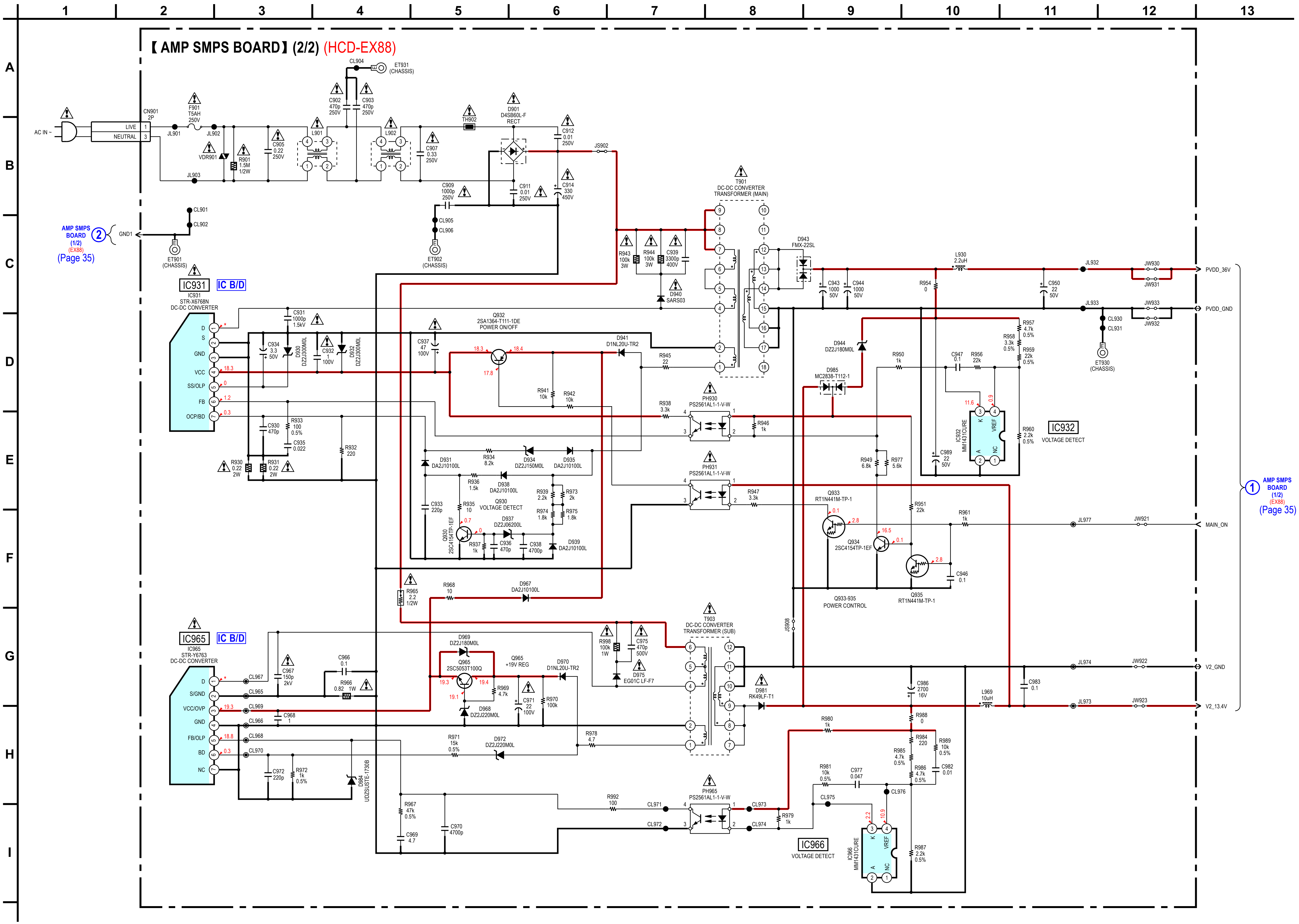


【 AMP SMPS BOARD 】(HCD-EX88)

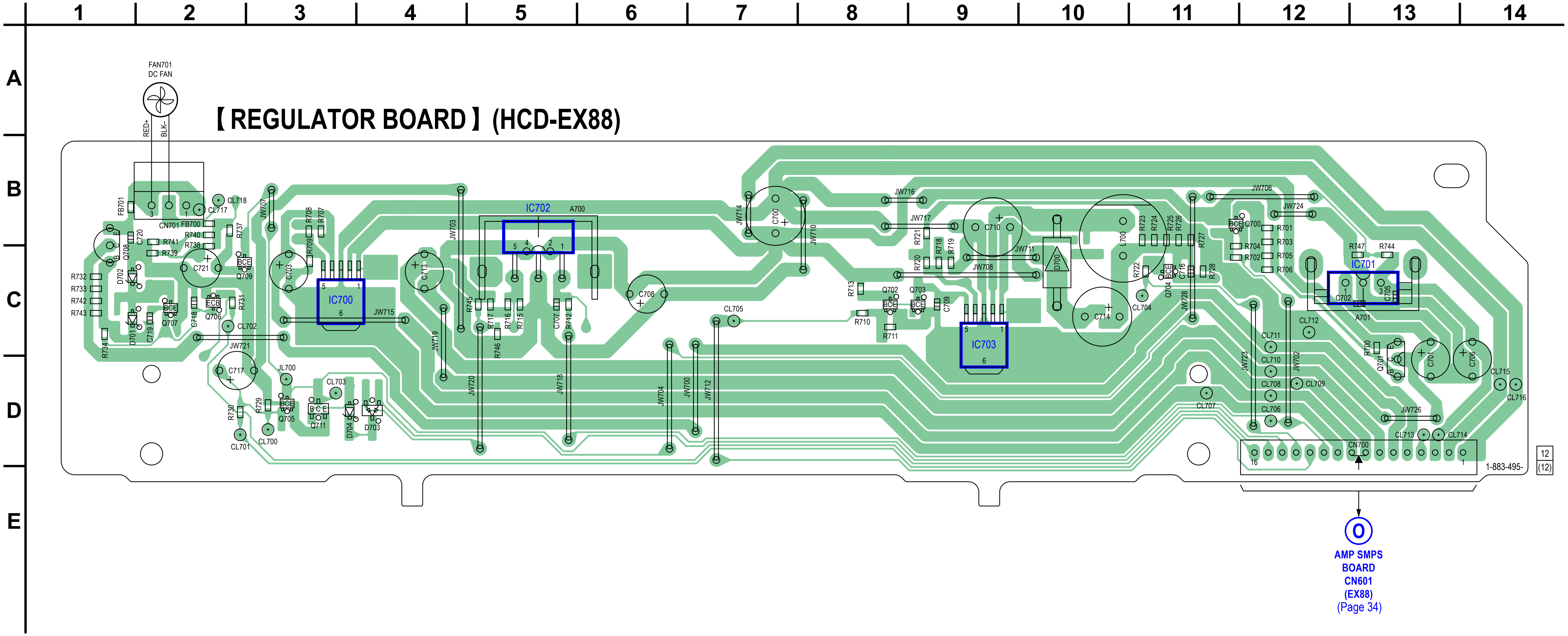
5-19. SCHEMATIC DIAGRAM – AMP SMPS Section (1/2) (HCD-EX88) – • See page 44 for IC Block Diagrams.



5-20. SCHEMATIC DIAGRAM – AMP SMPS Section (2/2) (HCD-EX88) – • See page 47 for IC Block Diagrams.

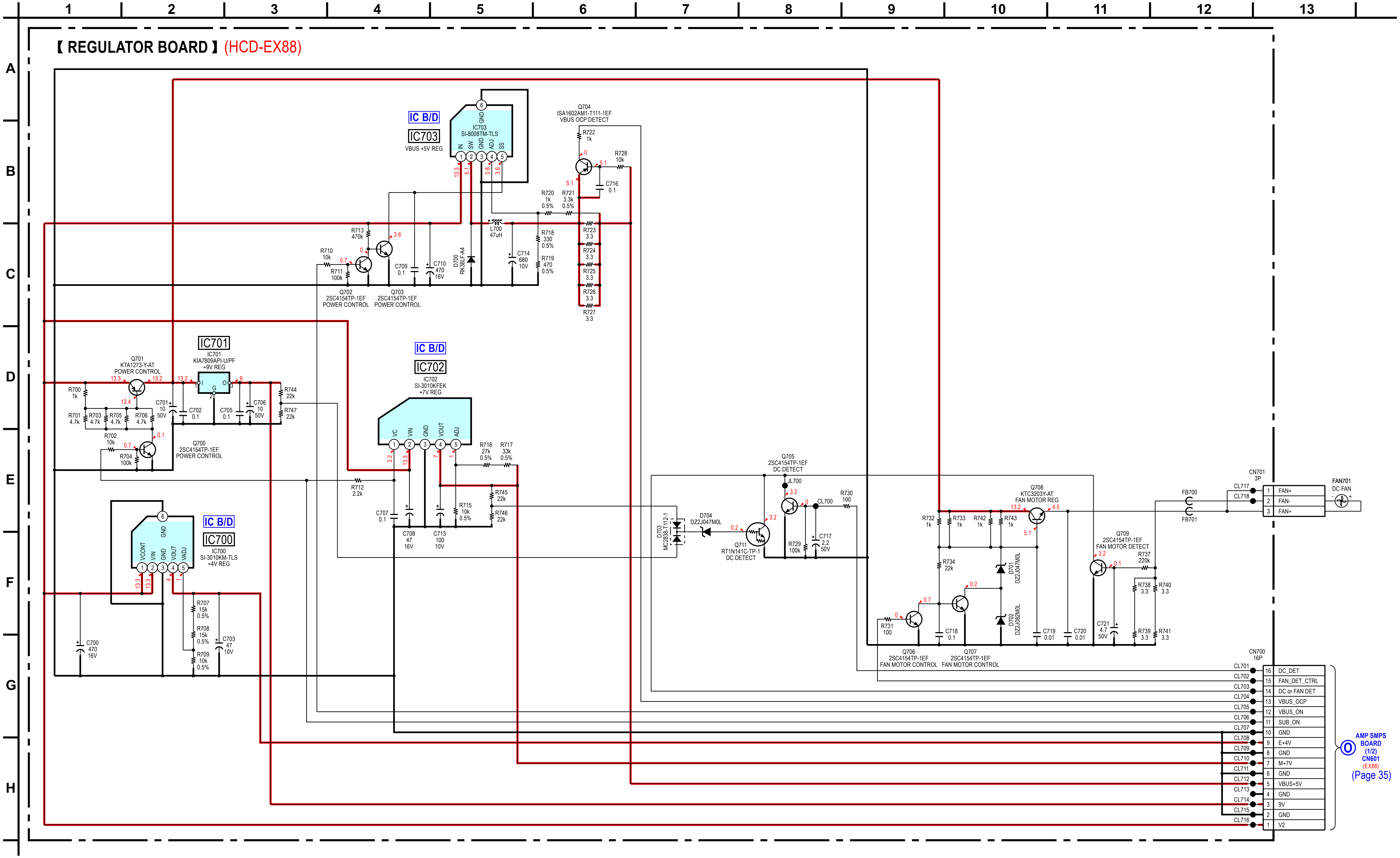


5-21. PRINTED WIRING BOARD – REGULATOR Section (HCD-EX88) – • See page 20 for Circuit Boards Location. • : Uses unleaded solder.

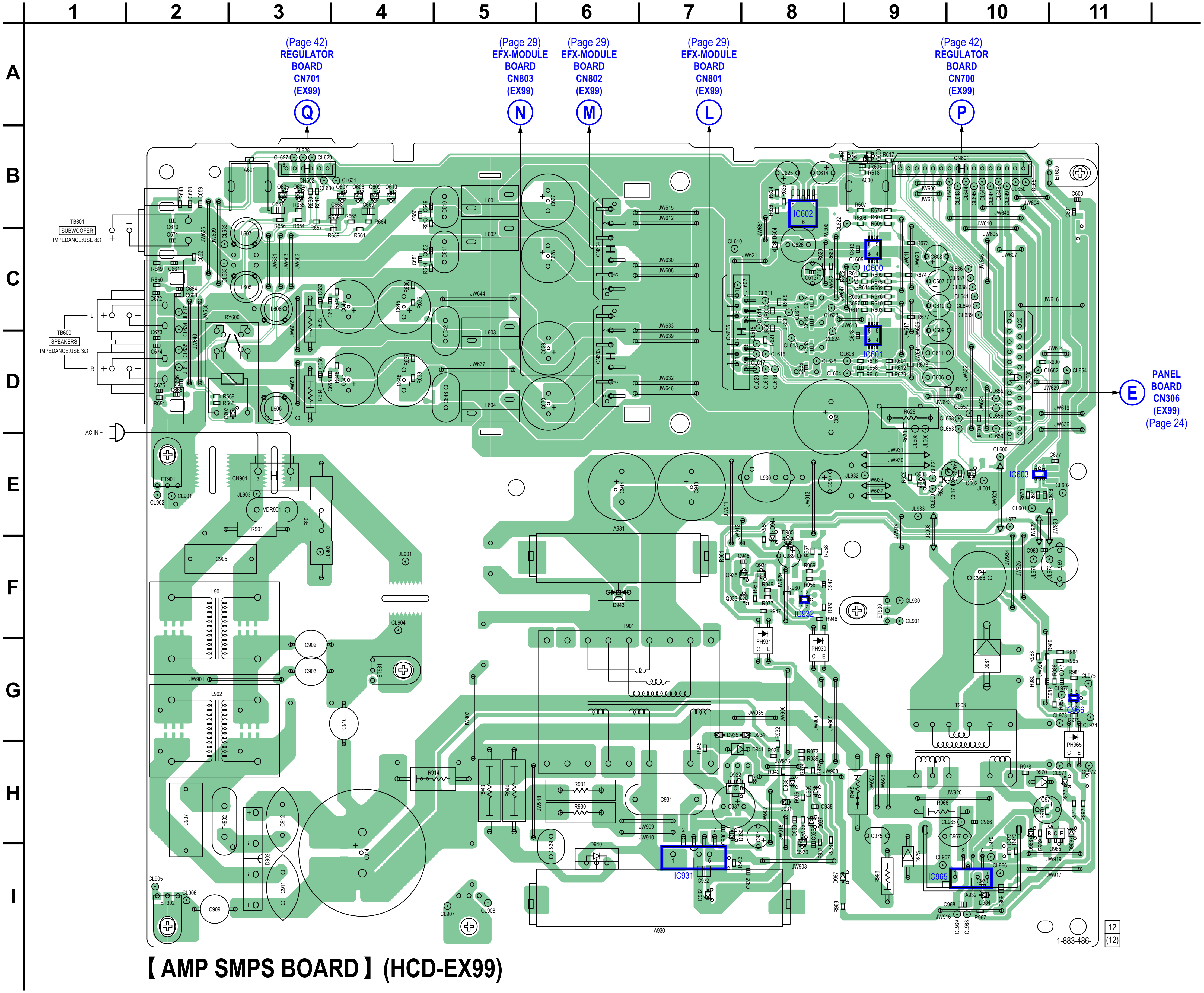


5-22. SCHEMATIC DIAGRAM – REGULATOR Section (HCD-EX88) –

• See page 46 for IC Block Diagrams.



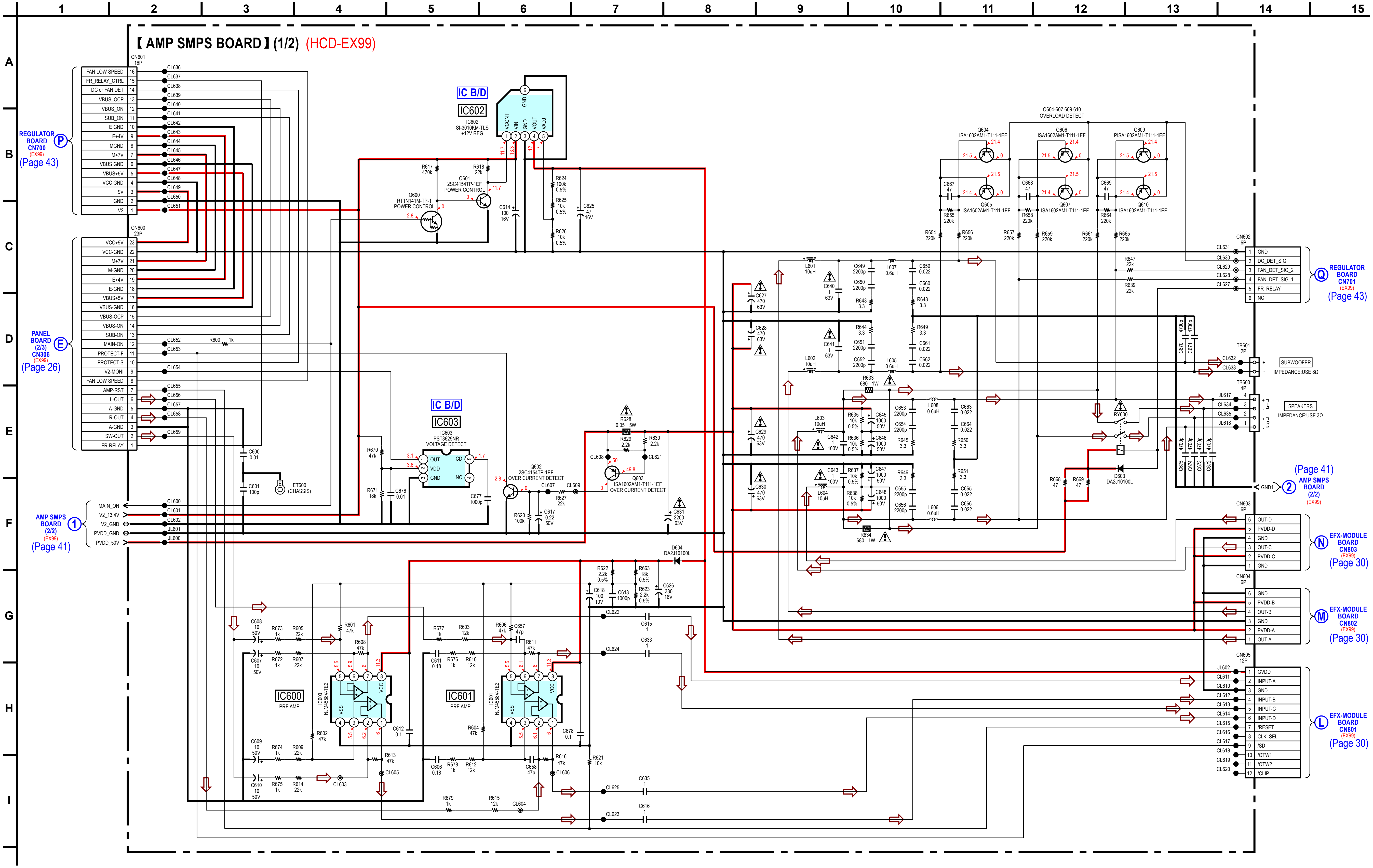
5-23. PRINTED WIRING BOARD – AMP SMPS Section (HCD-EX99) – • See page 20 for Circuit Boards Location. • : Uses unleaded solder.



【AMP SMPS BOARD】(HCD-EX99)

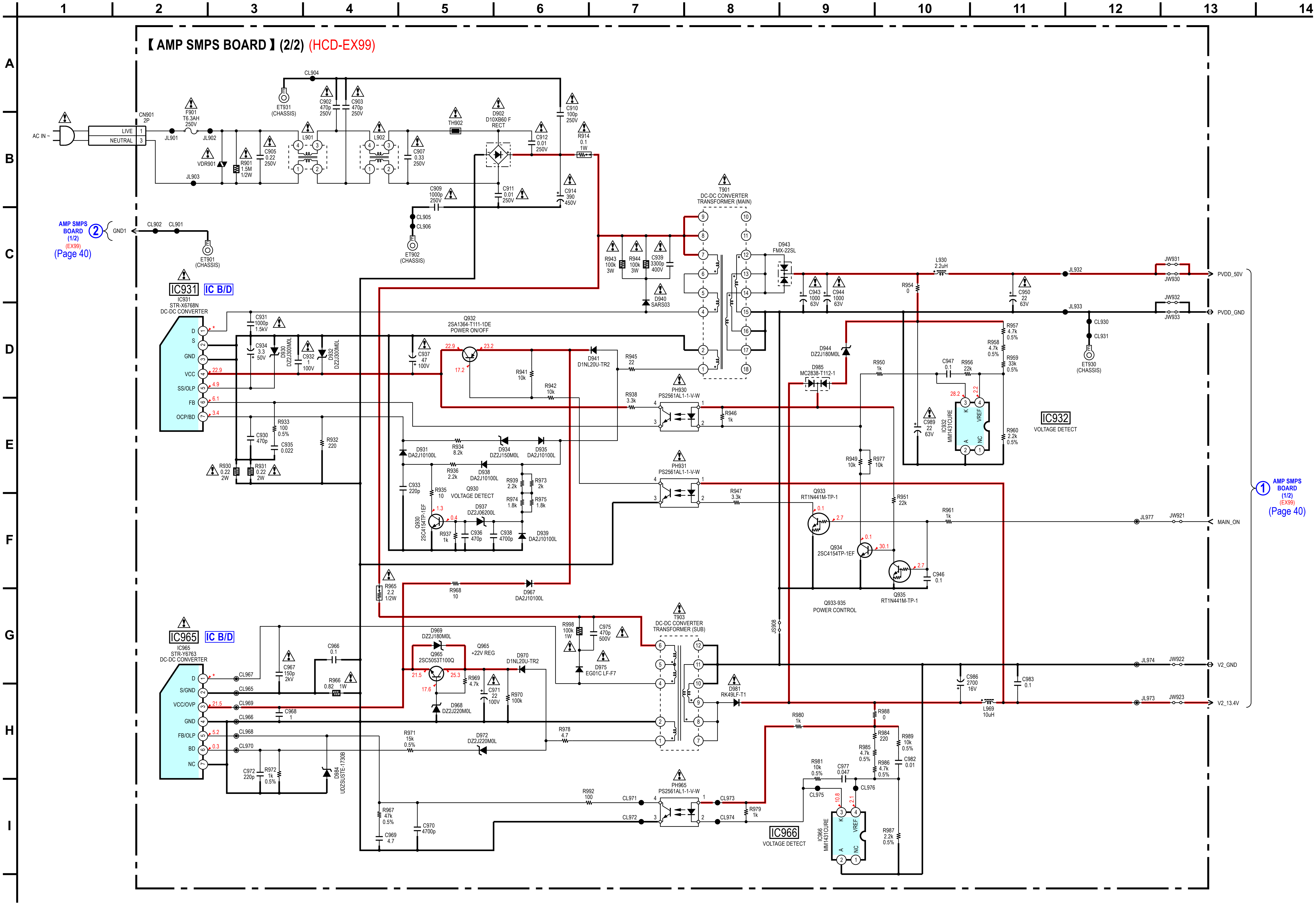
5-24. SCHEMATIC DIAGRAM – AMP SMPS Section (1/2) (HCD-EX99) –

• See page 44 for IC Block Diagrams.

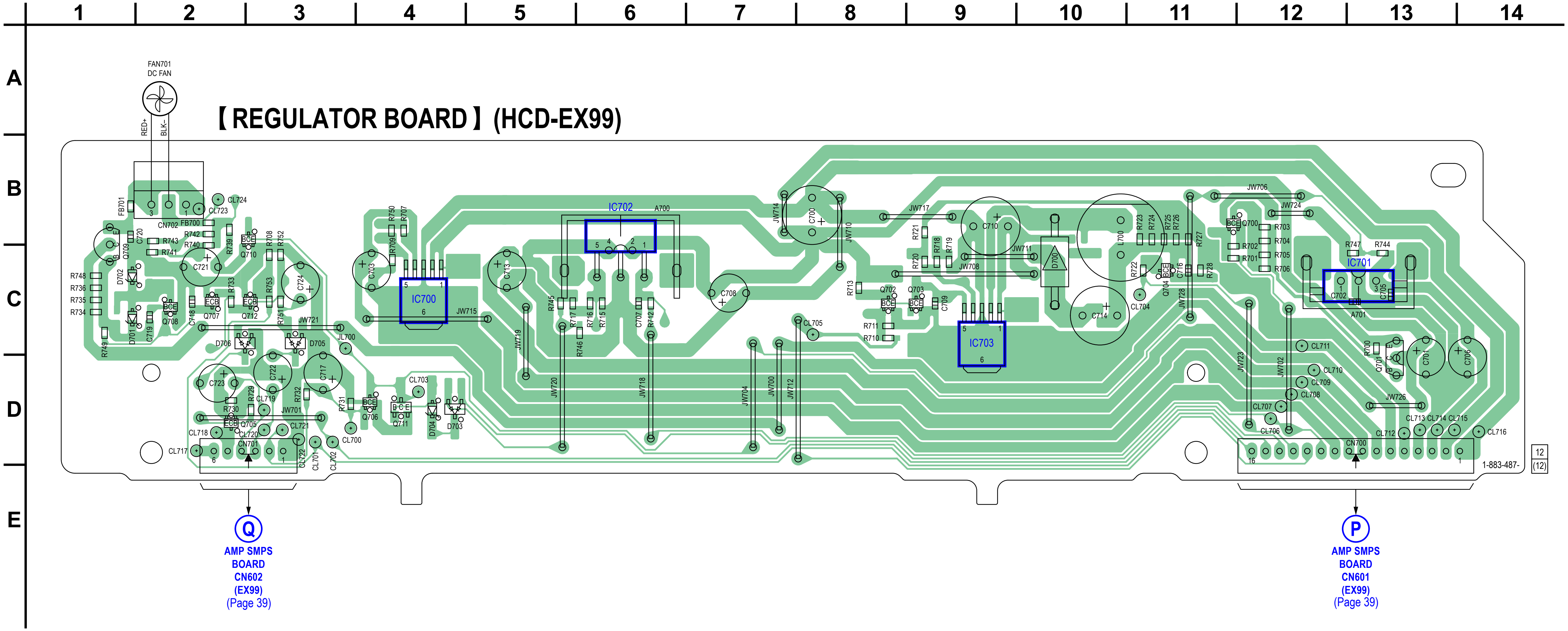


5-25. SCHEMATIC DIAGRAM – AMP SMPS Section (2/2) (HCD-EX99) –

• See page 47 for IC Block Diagrams.

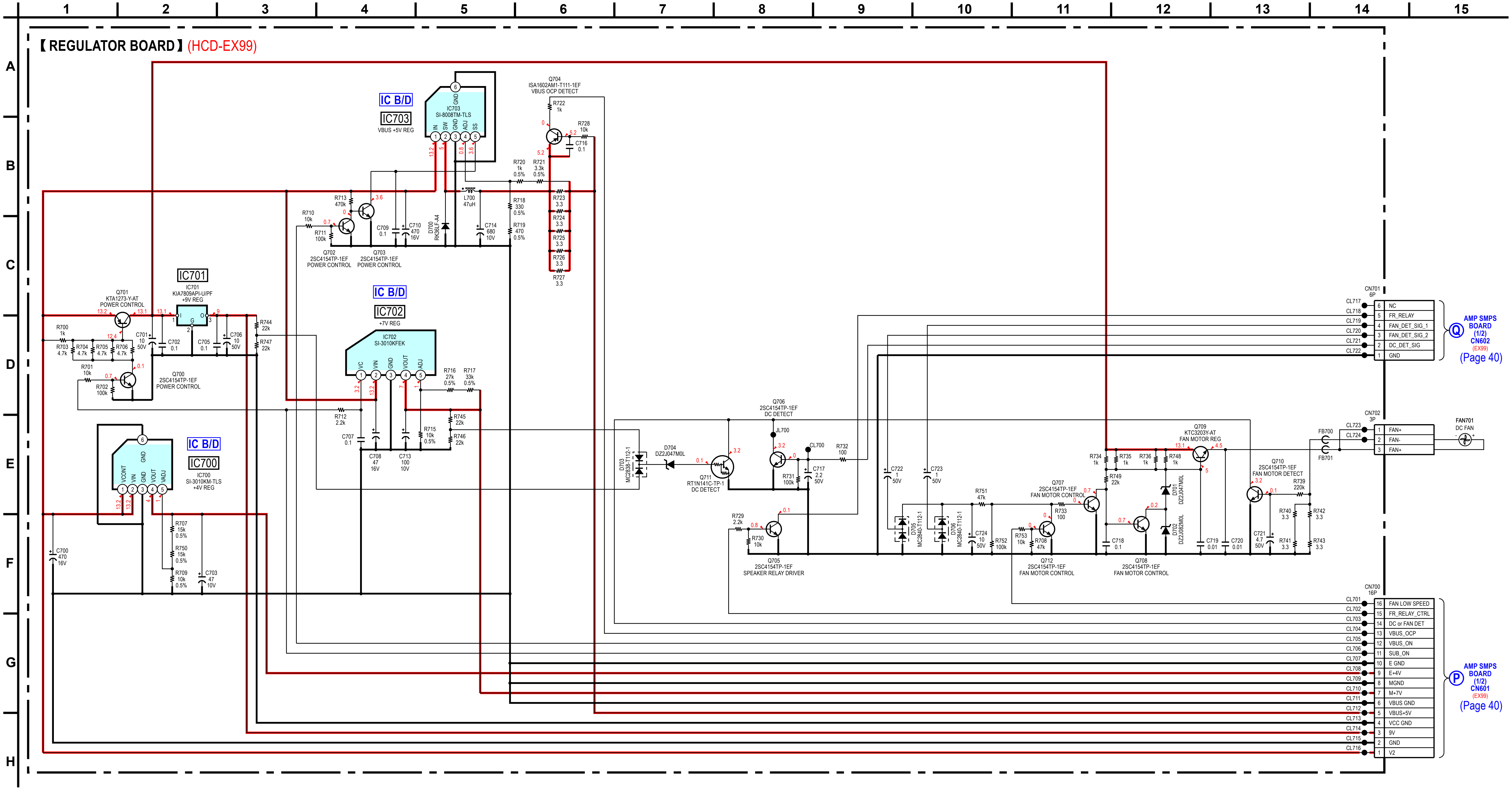


5-26. PRINTED WIRING BOARD – REGULATOR Section (HCD-EX99) – • See page 20 for Circuit Boards Location. • : Uses unleaded solder.



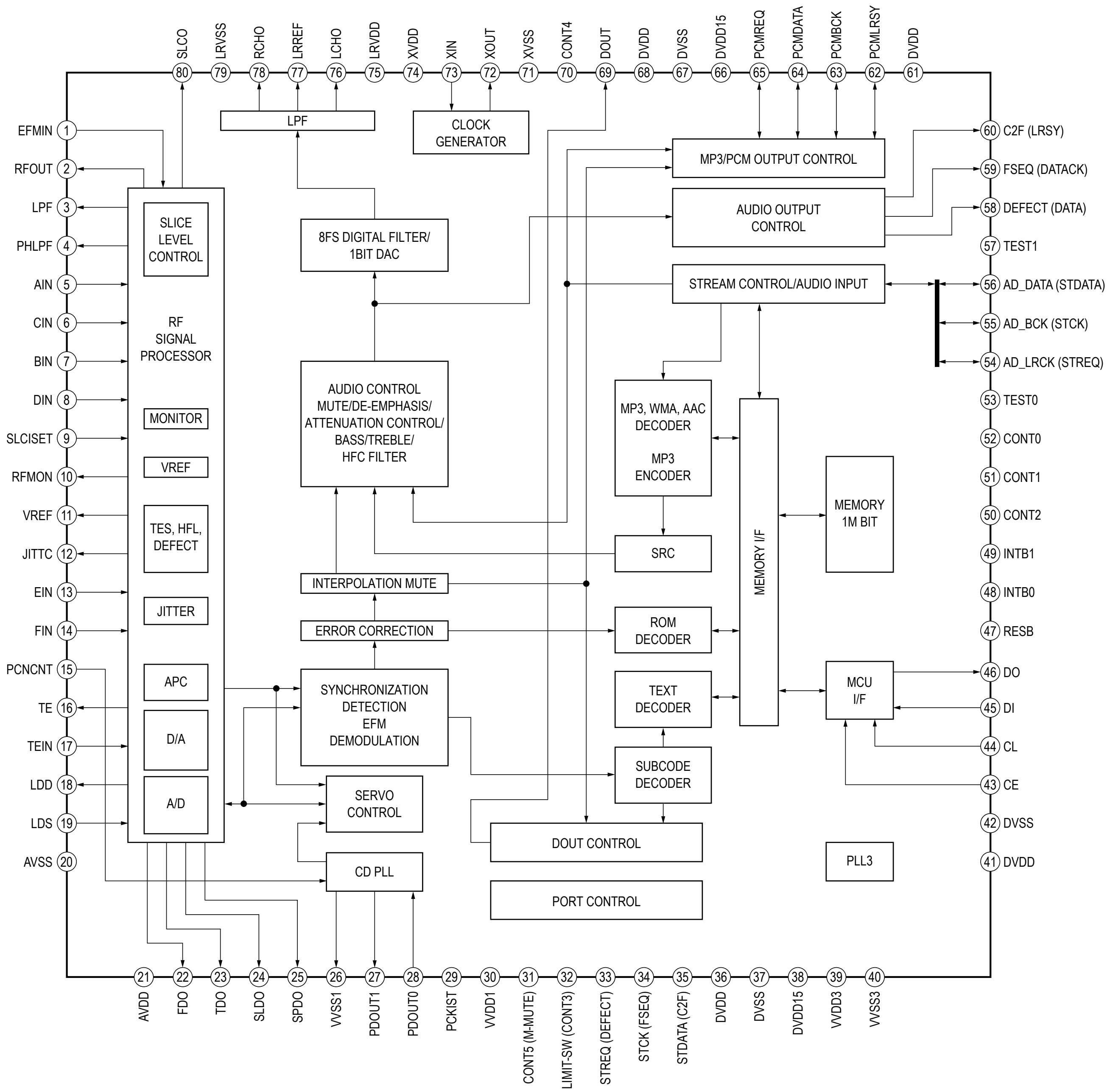
5-27. SCHEMATIC DIAGRAM – REGULATOR Section (HCD-EX99) –

• See page 46 for IC Block Diagrams.

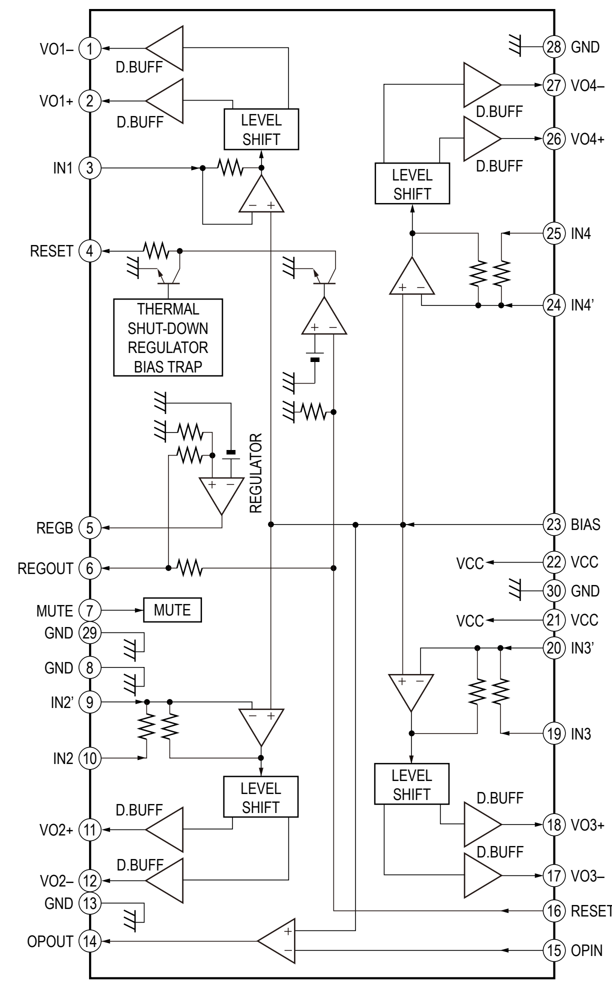


- **IC Block Diagrams**

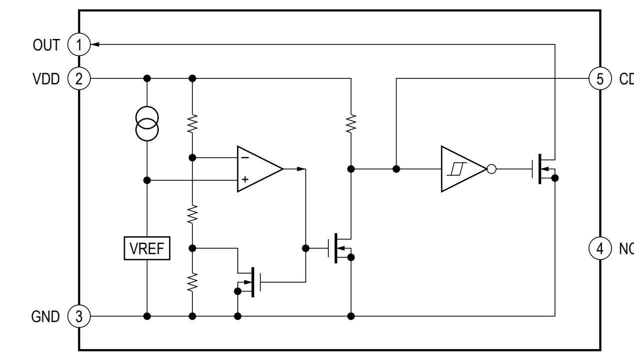
IC101 LC786950T-US-H (BD76 Board (1/2))



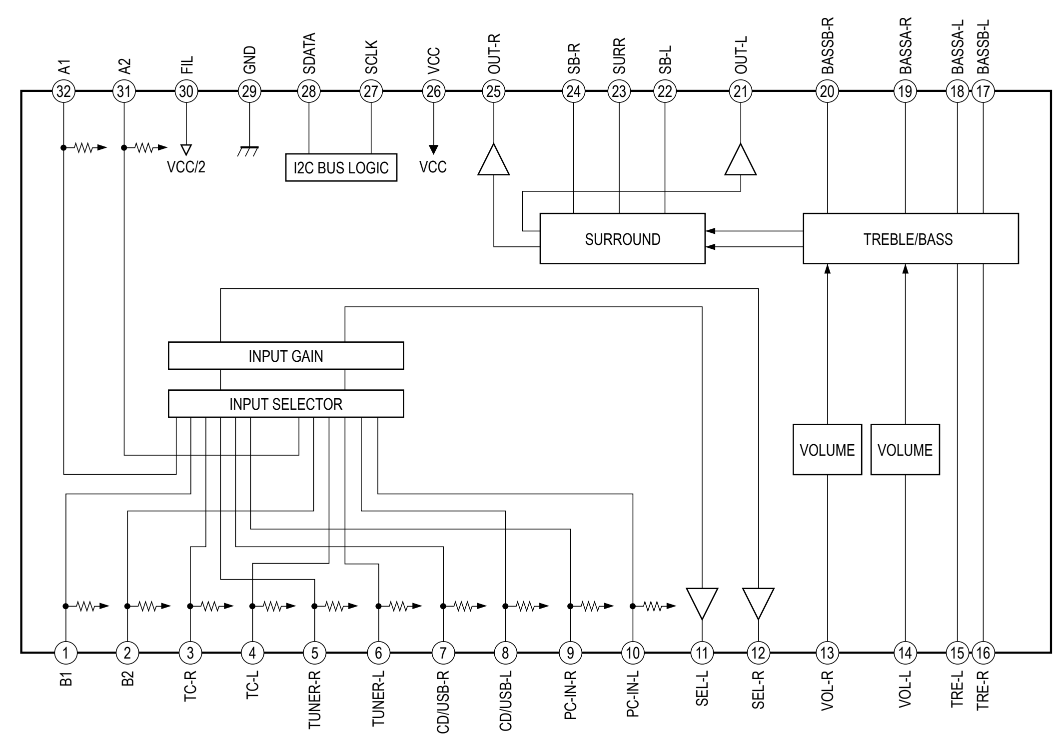
IC301 BA5826HFP-E2 (BD76 Board (1/2))



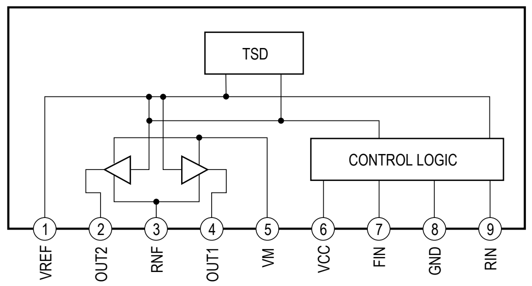
IC307 PST3629NR (PANEL Board (1/3))
IC603 PST3629NR (AMP SMPS Board (1/2)) (HCD-EX66)
IC604 PST3629NR (AMP SMPS Board (1/2)) (HCD-EX66)
IC603 PST3629NR (AMP SMPS Board (1/2)) (HCD-EX88)
IC603 PST3629NR (AMP SMPS Board (1/2)) (HCD-EX99)



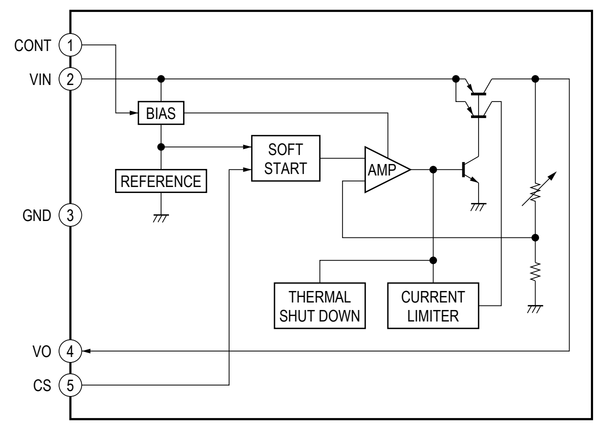
IC306 BD3419FS-SE2 (PANEL Board (2/3))



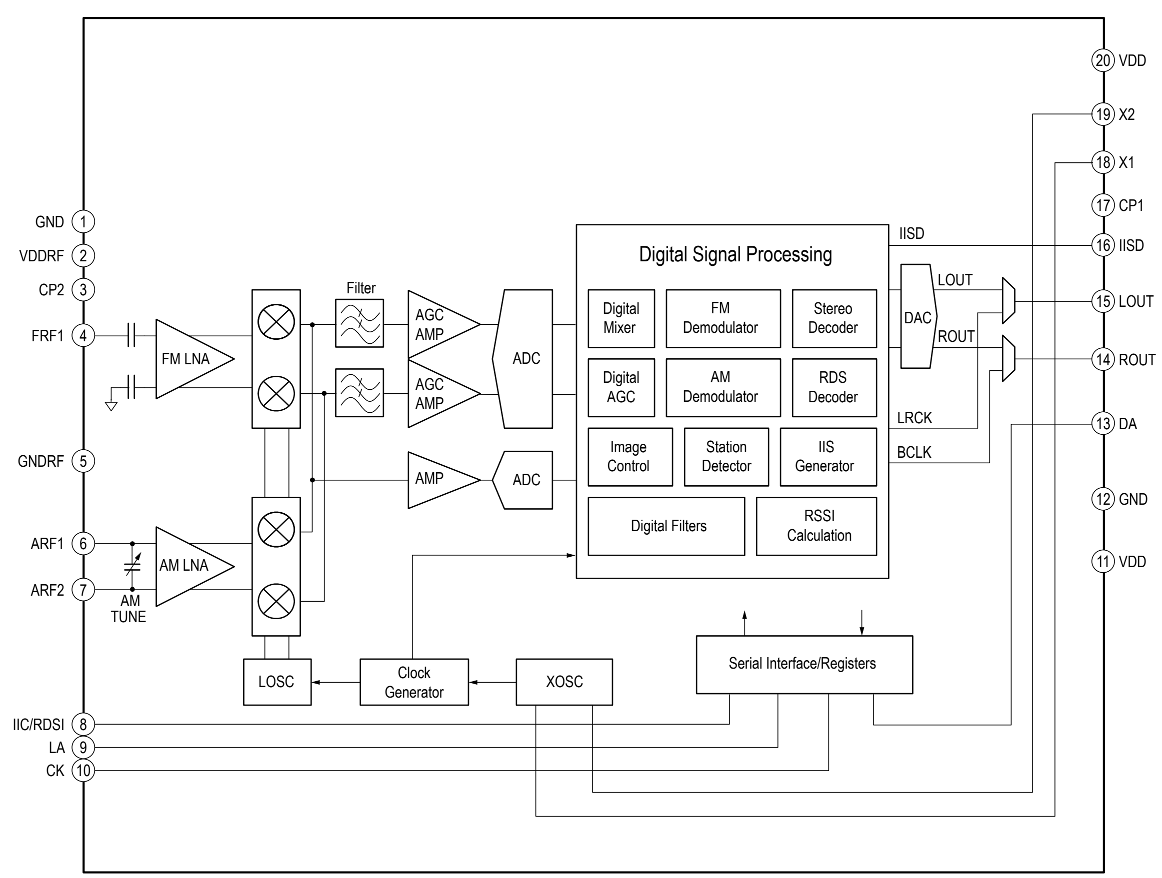
IC303 BA6956AN (PANEL Board (3/3))



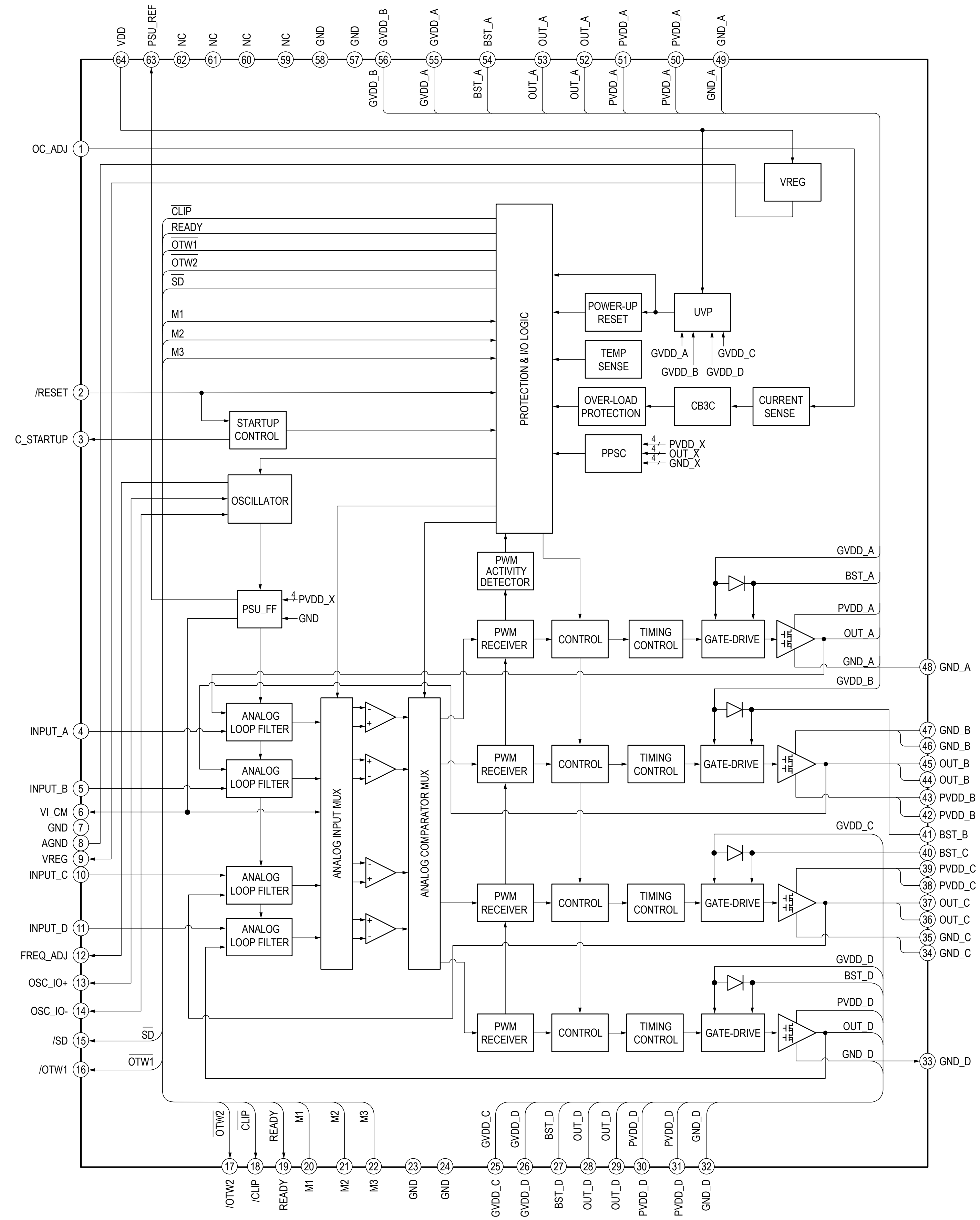
IC304 MM1923DTRE (PANEL Board (3/3))



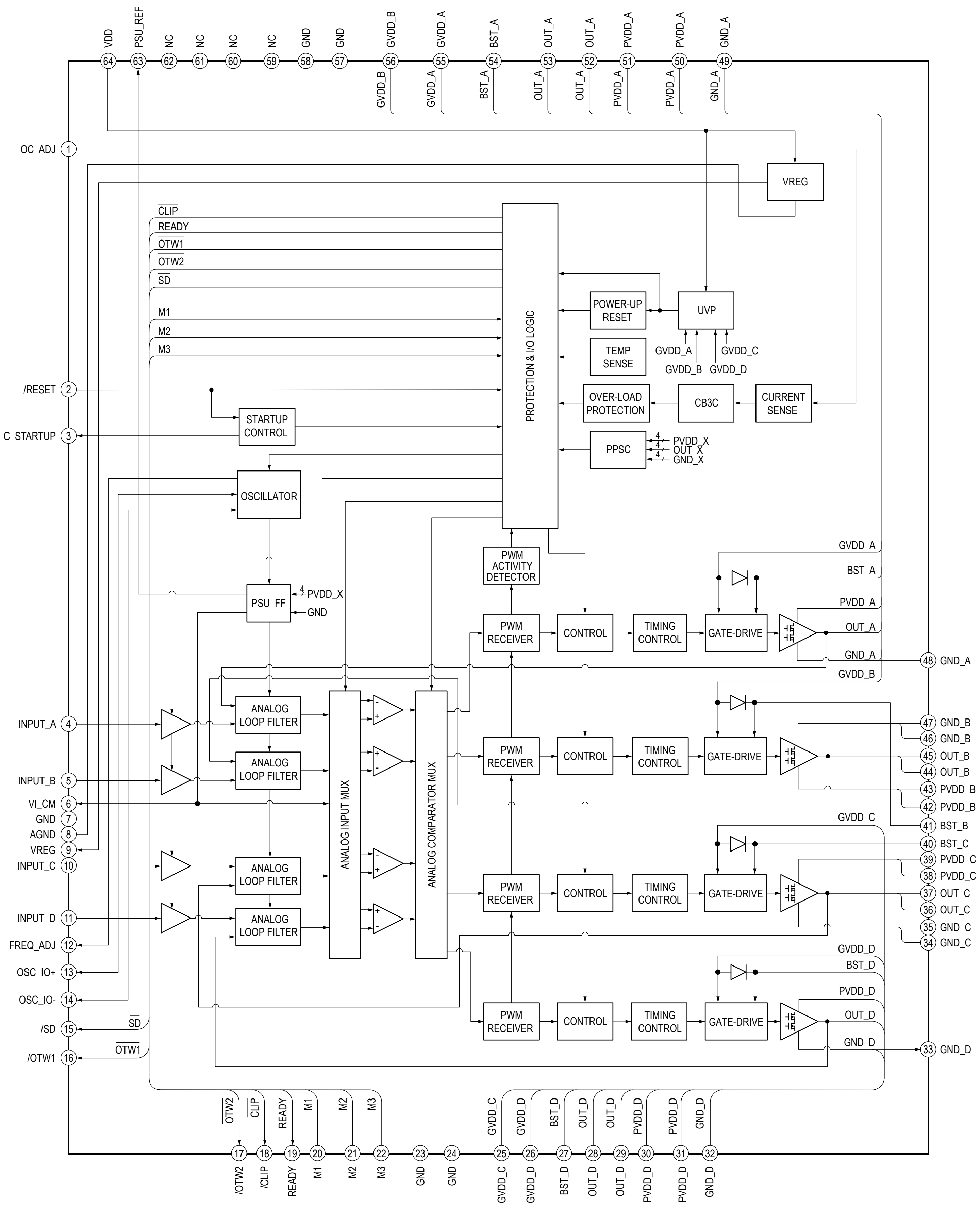
IC502 RS5B800-0002E2 (TUNER Board)



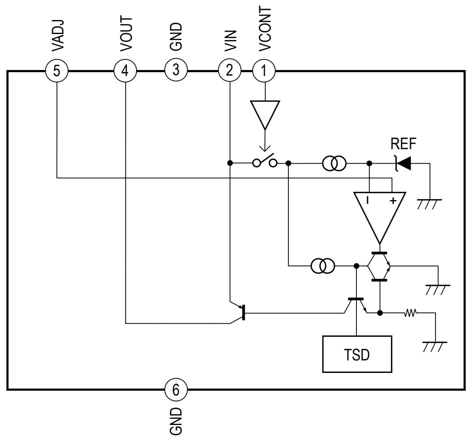
IC800 TAS5630BPHDR (EFX-MODULE Board) (HCD-EX99)



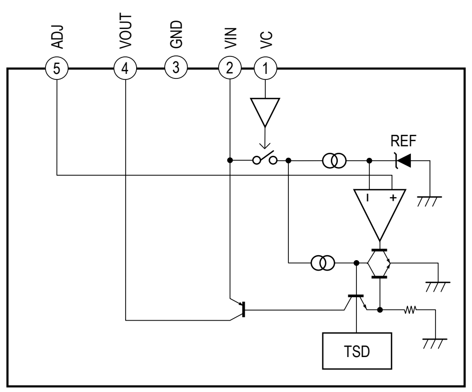
IC800 TAS5613APHDR (EFX-MODULE Board) (HCD-EX88)
IC800 TAS5611APHDR (EFX-MODULE Board) (HCD-EX66)



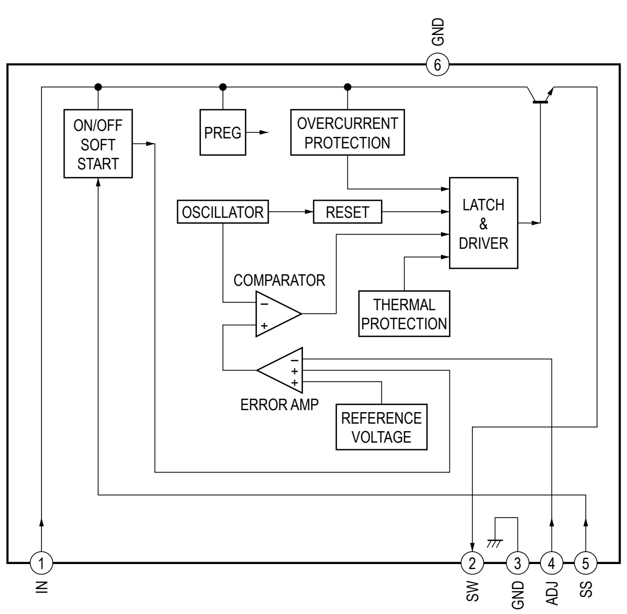
IC700 SI-3010KM-TLS (AMP SMPS Board (1/2)) (HCD-EX66)
IC602 SI-3010KM-TLS (AMP SMPS Board (1/2)) (HCD-EX88)
IC700 SI-3010KM-TLS (REGULATOR Board) (HCD-EX88)
IC602 SI-3010KM-TLS (AMP SMPS Board (1/2)) (HCD-EX99)
IC700 SI-3010KM-TLS (REGULATOR Board) (HCD-EX99)



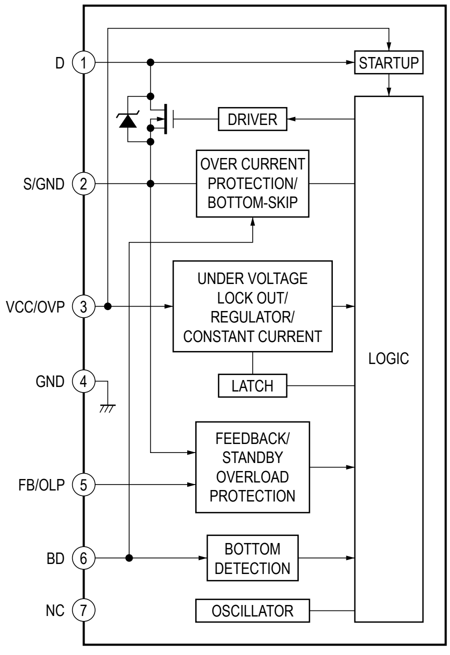
IC702 SI-3010KFEK (AMP SMPS Board (1/2)) (HCD-EX66)
IC702 SI-3010KFEK (REGULATOR Board) (HCD-EX88)
IC702 SI-3010KFEK (REGULATOR Board) (HCD-EX99)



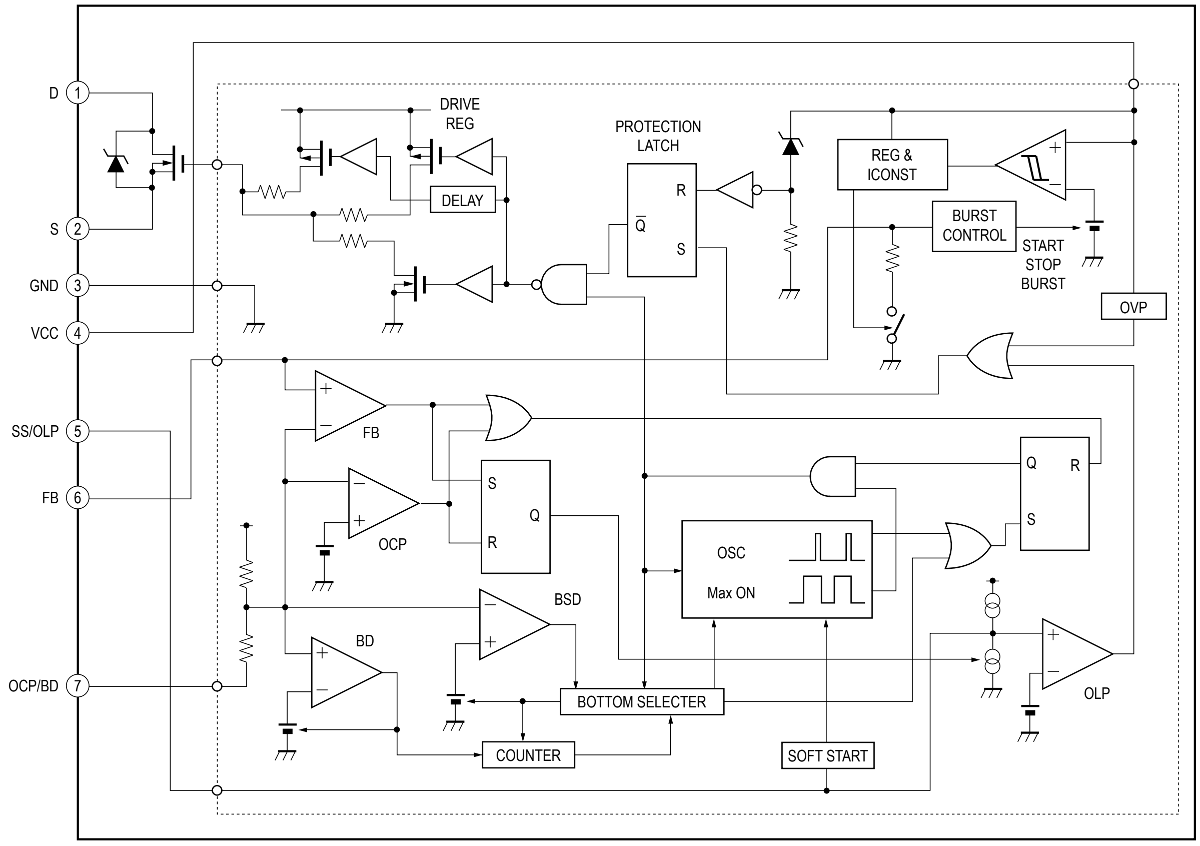
IC703 SI-8008TM-TLS (AMP SMPS Board (1/2)) (HCD-EX66)
IC703 SI-8008TM-TLS (REGULATOR Board) (HCD-EX88)
IC703 SI-8008TM-TLS (REGULATOR Board) (HCD-EX99)



IC930 STR-Y6766 (AMP SMPS Board (2/2)) (HCD-EX66)
IC965 STR-Y6763 (AMP SMPS Board (2/2)) (HCD-EX88)
IC965 STR-Y6763 (AMP SMPS Board (2/2)) (HCD-EX99)



IC931 STR-X6768N (AMP SMPS Board (2/2)) (HCD-EX88)
IC931 STR-X6768N (AMP SMPS Board (2/2)) (HCD-EX99)



- **IC Pin Function Descriptions**

BD76 BOARD (2/2) IC901 LC87F1JJ2AU-SQFP-H (USB CONTROL)

Pin No.	Pin Name	I/O	Description
1	P73	O	Not used. (Open)
2	RES	—	USB control reset pin
3	XT1	—	Not used. (Connect to VDD)
4	XT2	O	Not used. (Open)
5	VSS1	—	Ground
6	CF1	I	Oscillation signal input (12 MHz)
7	CF2	O	Oscillation signal output (12 MHz)
8	VDD1	—	Power supply pin (+3.3 V)
9	SO0	O	CD digital signal processor serial data communication signal output
10	SI0	I	CD digital signal processor serial data communication signal input
11	SCK0	I/O	CD digital signal processor clock communication signal input/output
12	SO1	O	Not used. (Open)
13	SI1	O	Not used. (Open)
14	SCK1	O	Not used. (Open)
15	P16	I	CD digital signal processor enable communication signal input
16	P17	O	Not used. (Open)
17	MCLKI	O	Not used. (Open)
18	MCLKO	O	Not used. (Open)
19	VDD2	—	Power supply pin (+3.3 V)
20	VSS2	—	Ground
21, 22	P00, P01	O	Not used. (Open)
23 to 25	DBGP0 to DBGP2	O	For debagger pin
26	SDAT	I	USB record MP3 serial data signal input
27	BCLK	I	USB record MP3 serial data shift clock signal input
28	LRCK	I	USB record MP3 serial data word clock signal input
29, 30	P20, P21	O	Not used. (Open)
31	P22	O	USB playback serial data signal output
32	P23	O	USB record MP3 serial data request signal output
33	P24	O	USB playback serial data communication clock signal output
34 to 36	P25 to P27	O	Not used. (Open)
37	UHD–	I/O	USB D– serial data input/output
38	UHD+	I/O	USB D+ serial data input/output
39	VDD3	—	Power supply pin (+3.3 V)
40	VSS3	—	Ground
41	UFILT	I	USB interface PLL filter circuit connection pin (Fixed at L in this set)
42	AFILT	O	Not used. (Open)
43	P32	O	Not used. (Open)
44	URX1	I	System controller input communication signal input
45	UTX1	O	System controller output communication signal output
46	P70	I	USB playback serial data request signal input
47	P71	I	USB controller command processing cancel signal input
48	P72	O	Not used. (Open)

PANEL BOARD (1/3) IC302 LC87F7DJ2CVU-QIP-H (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Description
1	O-CD-RST	O	System reset signal output for the CD-MP3 processor
2	O-CD-DI	O	Serial data output for the CD-MP3 processor
3	O-CD-CE	O	Chip enable signal output for the CD-MP3 processor
4	O-USB-RST	O	System reset signal output for the USB control
5	O-DIMMER	O	Volume LED dimmer control signal output
6	I2C-FUNC-DATA	O	Serial data output for the electrical volume
7	I2C-FUNC-CLK	O	Serial data transfer clock signal output for the electrical volume
8	I2C-TU-DATA	O	Serial data output for the AM/FM DET
9	I2C-TU-CLK	O	Serial data transfer clock signal output for the AM/FM DET
10	O-VOL-LED	O	Volume LED ON/OFF signal output
11	I-RST	I	Reset signal input (L: reset)
12	Sub Clock (32.768kHz)	I	Sub system clock signal input (32.768 kHz)
13	Sub Clock (32.768kHz)	O	Sub system clock signal output (32.768 kHz)
14	VSS1	—	Ground
15	Main Clock(20MHz)	I	Main system clock signal input (20 MHz)
16	Main Clock(20MHz)	O	Main system clock signal output (20 MHz)
17	VDD1	—	Power supply pin (+3.3 V)
18	I-CD-OP/CL	I	Disc tray close/open detection signal input/headphones with/without detection signal input from the CD mechanism deck
19	I-MODEL	I	Model setting pin
20	I-SUFFIX	I	Destination setting pin
21	I-SIGNAL-LEVEL	I	Audio level detection signal input
22	I-LED-LEVEL	I	Volume LED level detection signal input
23	I-VACS	I	VACS level detection signal input
24 to 26	I-KEY2 to I-KEY0	I	Key signal input (A/D input)
27	I-PROTECT-F	I	Fast protection detection signal input (L: abnormal, H: normal)
28	I-AC-CUT	I	AC cut detection signal input
29	I-RMC(SIRCS)	I	Remote control signal input from the remote control signal receiver
30	O-FAN-LOW-SPEED	O	Fan speed control signal output
31	O-FR-RELAY	O	Speaker relay ON/OFF signal output (HCD-EX99)
32	O-SW-MUTE	O	Subwoofer ON/OFF signal output (HCD-EX99)
33	O-AMP-RST	O	Amplifier reset signal output
34	I-V2-MONI	I	V2 power supply monitor signal input
35	I-PROTECT-S	I	Standard protection detection signal input (L: abnormal, H: normal)
36	O-HP-MUTE	O	Headphones mute ON/OFF signal output (L: mute OFF, H: mute ON)
37	O-MAIN-ON	O	Main power supply ON/OFF control signal output
38	O-SUB-ON	O	Sub power supply ON/OFF control signal output
39	O-VBUS-ON	O	VBUS power supply ON/OFF control signal output
40	I-VBUS-OCP	I	VBUS overcurrent detection signal input (L: abnormal, H: normal)
41	I-RDSI	I	RDS detection signal input
42	O-STBY-SW	O	Power supply control at standby mode
43	O-LCD-LED	O	LCD back light LED ON/OFF control signal output
44	NC	—	Not used. (Open)
45 to 53	SEG0 to SEG8	O	Segment drive signal output for the liquid crystal display panel
54	VDD2	—	Power supply pin (+3.3 V)
55	VSS2	—	Ground
56 to 79	SEG9 to SEG32	O	Segment drive signal output for the liquid crystal display panel
80 to 82	LCD V3 to LCD V1	—	Bias power supply for the liquid crystal display panel
83 to 86	COM3 to COM0	O	Common drive signal output for the liquid crystal display panel
87	O-CD-M–	O	CD motor drive (–) signal output for the CD mechanism deck
88	O-CD-M+	O	CD motor drive (+) signal output for the CD mechanism deck
89	VSS3	—	Ground
90	VDD3	—	Power supply pin (+3.3 V)
91	O-CD-ON	O	Digital power supply control signal output for the CD-MP3 processor
92	O-USB-SLEEP	O	Sleep control signal output for the USB control
93	O-USB-TXD	O	USB TX signal output for the USB control
94	I-USB-RXD	I	USB RX signal input from the USB control

Pin No.	Pin Name	I/O	Description
95 to 97	DGBP0 to DGBP2	I	For debagger pin
98	O-CD-CL	O	Clock signal output for the CD-MP3 processor
99	I-CD-DO	I	Serial data input from the CD-MP3 processor
100	O-CD-M-MUTE	O	CD motor drive ON/OFF mute control signal output for the CD motor/coil driver

SECTION 6
EXPLODED VIEWS

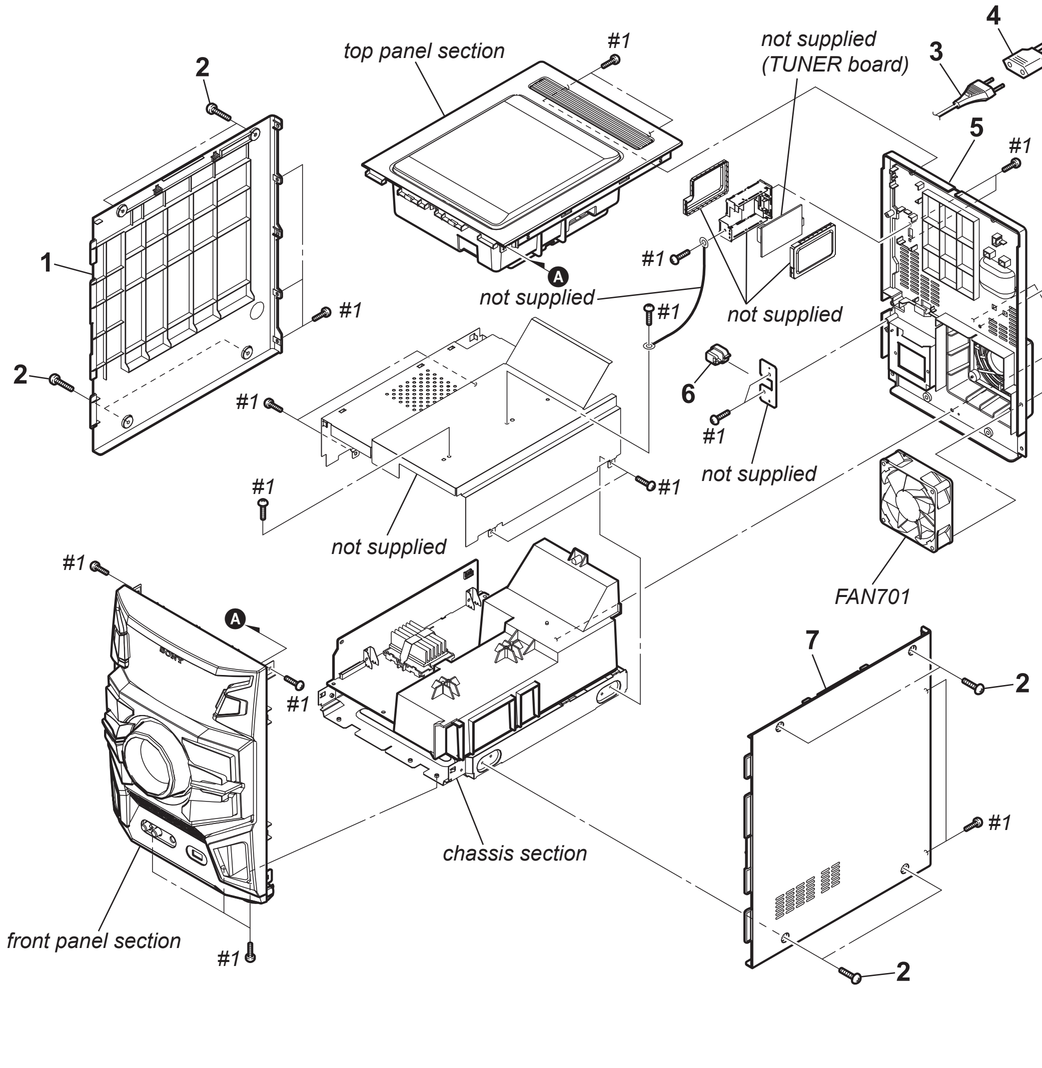
Note:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the 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.

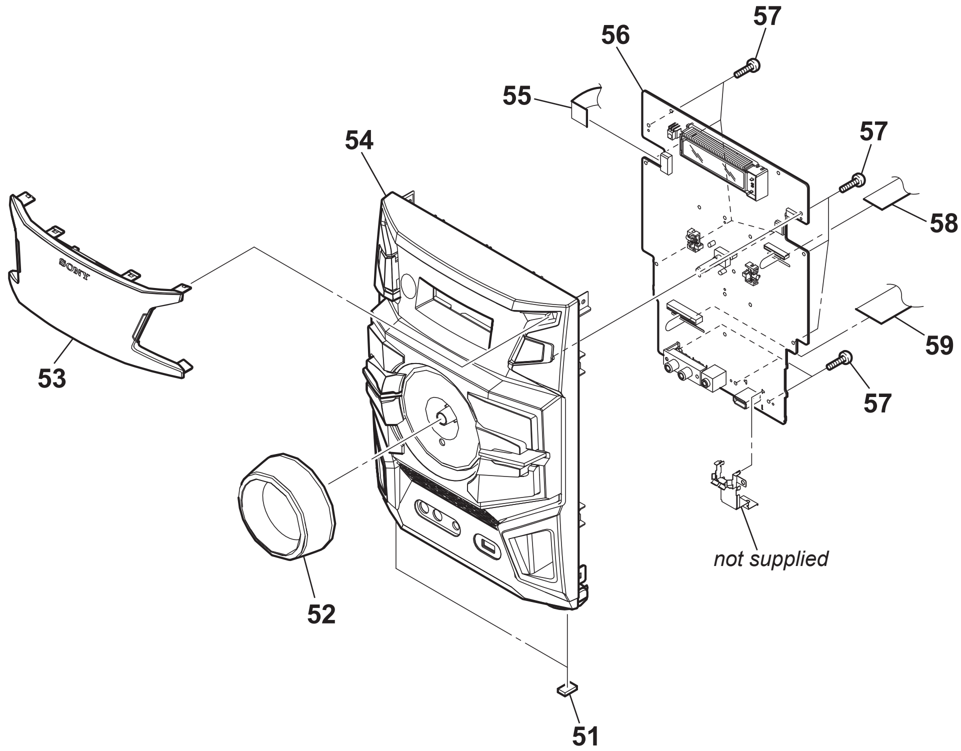
- Abbreviation
  - AR : Argentina model
  - E2 : 120V AC area in E model
  - E4 : 220 – 240V AC area in E model
  - E51 : Chilean and Peruvian models
  - EA : Saudi Arabia model
  - MX : Mexican model

6-1. OVERALL SECTION



Ref. No.	Part No.	Description	Remark
1	4-263-388-01	CASE (L), SIDE	
2	3-363-099-32	SCREW (CASE 3 TP2)	
⚠ 3	1-834-966-41	CORD, POWER-SUPPLY (E2, E4, E51)	
⚠ 3	1-837-309-21	CORD, POWER-SUPPLY (EA)	
⚠ 3	1-837-312-11	CORD, POWER-SUPPLY (AR)	
⚠ 3	1-837-344-11	CORD, POWER-SUPPLY (MX)	
⚠ 4	1-569-008-33	ADAPTOR, CONVERSION (E2, E4, E51)	
5	4-263-387-01	PANEL, BACK (EX99: E2, E51)	
5	4-263-387-11	PANEL, BACK (EX99: AR, MX)	
5	4-263-387-21	PANEL, BACK (EX66/EX88)	
6	3-703-244-00	BUSHING (2104), CORD	
7	4-263-389-01	CASE (R), SIDE	
FAN701	1-855-006-11	FAN, DC	
#1	7-685-647-71	SCREW +BVTP 3X10 TYPE2 IT-3	

6-2. FRONT PANEL SECTION

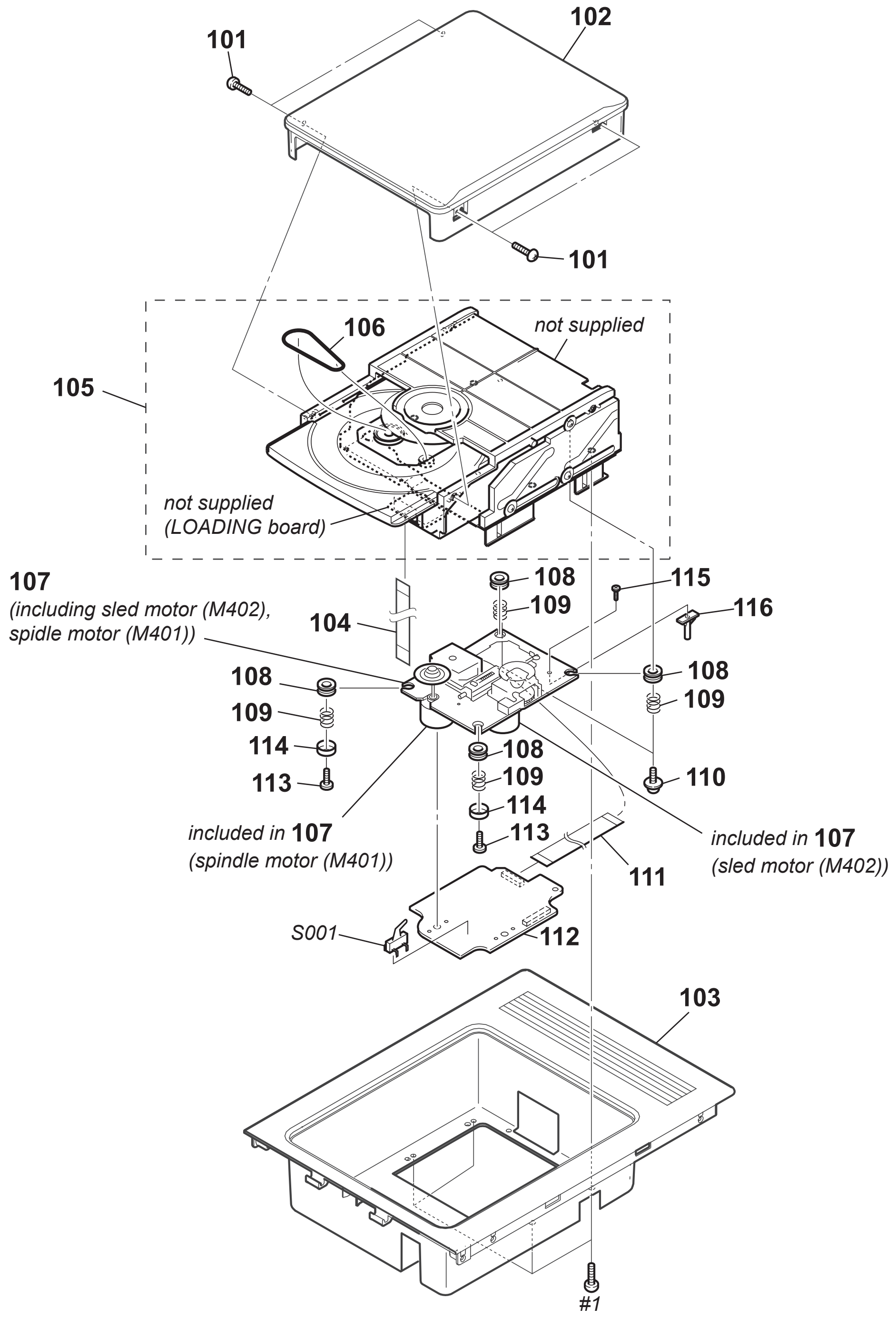


Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

Ref. No.	Part No.	Description	Remark
51	4-264-672-01	CUSHION (FOOT)	
52	4-263-494-01	KNOB (VOL) (EX88/EX99)	
52	4-263-494-11	KNOB (VOL) (EX66)	
53	4-263-426-01	WINDOW (EX99)	
53	4-263-426-21	WINDOW (EX88)	
53	4-263-426-41	WINDOW (EX66)	
54	X-2560-700-2	PANEL SUB ASSY, FRONT (EX88/EX99)	
54	X-2560-702-3	PANEL SUB ASSY, FRONT (EX66)	
55	1-839-177-21	CABLE, FLEXIBLE FLAT (7 CORE)	
56	A-1800-425-A	PANEL BOARD, COMPLETE (EX99: E2, E51, AR)	
56	A-1800-426-A	PANEL BOARD, COMPLETE (EX99: MX)	

Ref. No.	Part No.	Description	Remark
56	A-1800-428-A	PANEL BOARD, COMPLETE (EX88: E2, E51, AR)	
56	A-1800-429-A	PANEL BOARD, COMPLETE (EX88: MX)	
56	A-1800-432-A	PANEL BOARD, COMPLETE (EX66: EA)	
56	A-1800-433-A	PANEL BOARD, COMPLETE (EX66: E2, E51, AR)	
56	A-1800-434-A	PANEL BOARD, COMPLETE (EX66: E4)	
57	3-087-053-01	+BVTP2.6 (3CR)	
58	1-839-169-21	CABLE, FLEXIBLE FLAT (21 CORE)	
59	1-832-875-21	CABLE, FLEXIBLE FLAT (21 CORE) (EX66)	
59	1-839-178-21	CABLE, FLEXIBLE FLAT (21 CORE) (EX88)	
59	1-839-179-21	CABLE, FLEXIBLE FLAT (23 CORE) (EX99)	

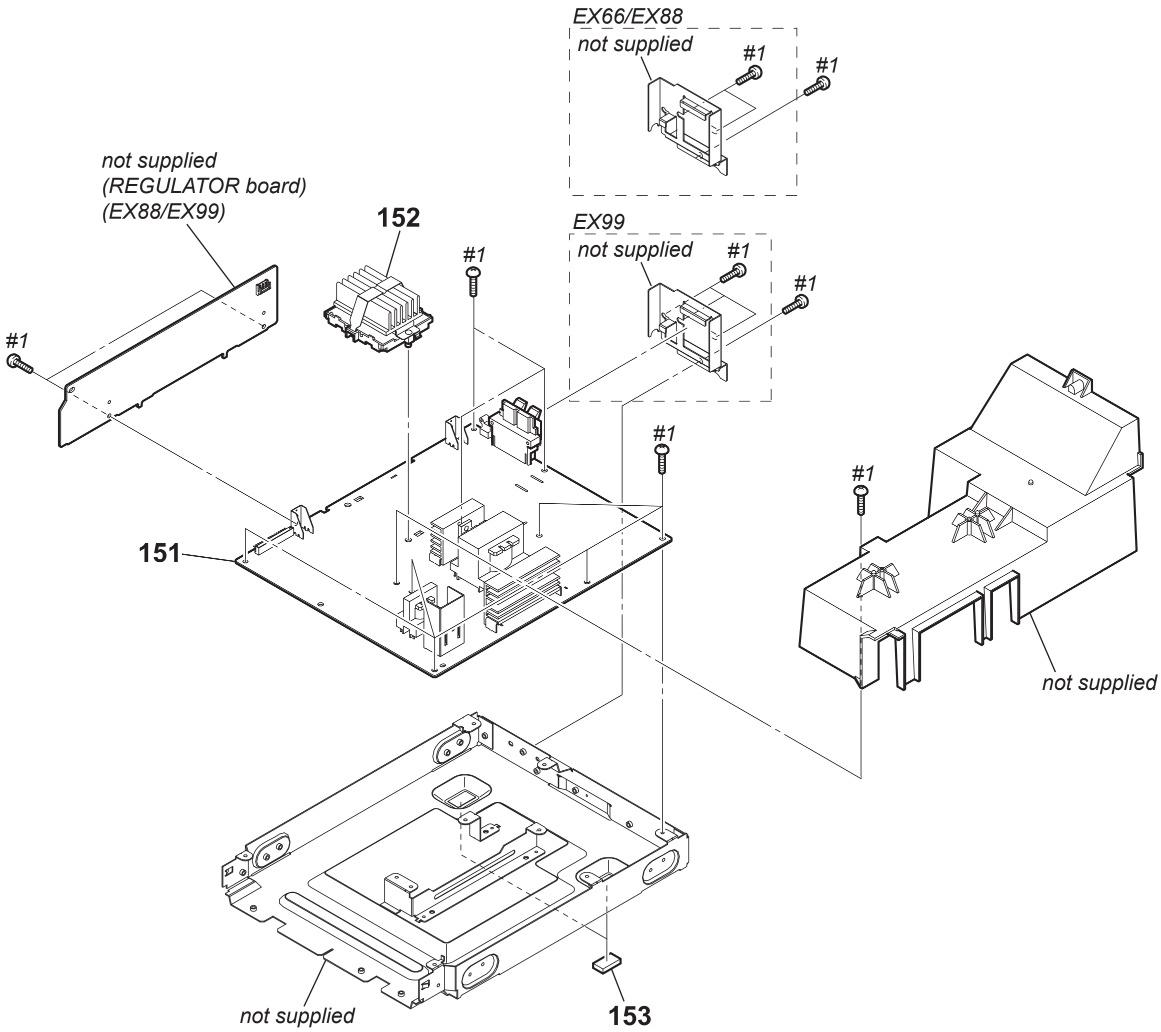
6-3. TOP PANEL SECTION



Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

Ref. No.	Part No.	Description	Remark
101	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
102	4-120-662-01	LID, TOP	
103	4-263-391-02	PANEL, TOP	
104	1-839-176-21	CABLE, FLEXIBLE FLAT (5 CORE)	
105	A-1800-608-A	CDM76B ASSY	
106	4-120-079-01	BELT (CDM76)	
⚠ 107	1-856-037-11	OPTICAL PICK-UP (DA11MMVGP)	
108	4-227-549-11	INSULATOR	
109	4-227-045-31	SPRING (INSULATOR), COIL	
110	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
111	1-834-268-21	WIRE (FLAT TYPE) (16 CORE)	
112	A-1800-258-A	BD76 BOARD, COMPLETE	
113	3-087-053-01	+BVTP2.6 (3CR)	
114	4-231-151-01	STOPPER (BU)	
115	3-080-204-31	SCREW, TAPPING, P2	
116	4-166-292-01	SHAFT (SUPPORT)	
S001	1-771-853-11	SWITCH, DETECTION (LIMIT)	
#1	7-685-647-71	SCREW +BVTP 3X10 TYPE2 IT-3	

6-4. CHASSIS SECTION



Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

Ref. No.	Part No.	Description	Remark
151	A-1800-479-A	AMP SMPS BOARD, COMPLETE (EX99)	
151	A-1800-481-A	AMP SMPS BOARD, COMPLETE (EX88)	
151	A-1800-482-A	AMP SMPS BOARD, COMPLETE (EX66: EA)	
151	A-1800-483-A	AMP SMPS BOARD, COMPLETE (EX66: EXCEPT EA)	
152	A-1800-461-A	EFX-MODULE BOARD, COMPLETE (EX99)	
152	A-1800-462-A	EFX-MODULE BOARD, COMPLETE (EX88)	
152	A-1800-463-A	EFX-MODULE BOARD, COMPLETE (EX66: EXCEPT EA)	
152	A-1822-267-A	EFX-MODULE BOARD, COMPLETE (EX66: EA)	
153	4-264-672-01	CUSHION (FOOT)	
#1	7-685-647-71	SCREW +BVTP 3X10 TYPE2 IT-3	

SECTION 7
ELECTRICAL PARTS LIST

AMP SMPS (EX66)

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.

- Abbreviation
  AR : Argentina model
  E2 : 120V AC area in E model
  E4 : 220 – 240V AC area in E model
  E51 : Chilean and Peruvian models
  EA : Saudi Arabia model
  MX : Mexican model

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

Ref. No.	Part No.	Description				Remark
	A-1800-482-A	AMP SMPS BOARD, COMPLETE (EX66: EA)				
	A-1800-483-A	AMP SMPS BOARD, COMPLETE				(EX66: EXCEPT EA)
		*************************				
	7-685-647-71	SCREW +BVTP 3X10 TYPE2 IT-3				
		< CAPACITOR >				
C600	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C601	1-100-831-91	CERAMIC CHIP	0.001uF	2%	50V	(EX66: EA)
C603	1-131-664-91	CERAMIC CHIP	0.15uF	10%	10V	
C604	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C606	1-131-664-91	CERAMIC CHIP	0.15uF	10%	10V	
C607	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
C608	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
C609	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C611	1-104-658-91	ELECT	100uF	20%	10V	
C613	1-126-933-11	ELECT	100uF	20%	16V	
C615	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C620	1-126-948-11	ELECT	100uF	20%	35V	
C622	1-126-947-11	ELECT	47uF	20%	35V	
C624	1-126-953-11	ELECT	2200uF	20%	35V	
C625	1-126-951-11	ELECT	470uF	20%	35V	
C626	1-126-951-11	ELECT	470uF	20%	35V	
C627	1-126-951-11	ELECT	470uF	20%	35V	
C628	1-126-951-11	ELECT	470uF	20%	35V	
C637	1-137-198-81	FILM	1uF	5%	50V	
C638	1-137-198-81	FILM	1uF	5%	50V	
C639	1-137-198-81	FILM	1uF	5%	50V	
C640	1-137-198-81	FILM	1uF	5%	50V	
C641	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C642	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C643	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C644	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C645	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C646	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C647	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C648	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C649	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C650	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C651	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C652	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C653	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C654	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C655	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C656	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C657	1-126-960-11	ELECT	1uF	20%	50V	
C658	1-126-964-11	ELECT	10uF	20%	50V	
C659	1-100-881-91	CERAMIC CHIP	47uF	20%	6.3V	
C660	1-100-881-91	CERAMIC CHIP	47uF	20%	6.3V	
C661	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C662	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C663	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C664	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C665	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C666	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C667	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C668	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C676	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C677	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C678	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C679	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C700	1-126-941-11	ELECT	470uF	20%	25V	
C701	1-126-964-11	ELECT	10uF	20%	50V	
C702	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C703	1-126-947-11	ELECT	47uF	20%	35V	
C705	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C706	1-126-964-11	ELECT	10uF	20%	50V	
C707	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C708	1-126-947-11	ELECT	47uF	20%	35V	
C709	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C710	1-126-951-11	ELECT	470uF	20%	35V	
C713	1-104-658-91	ELECT	100uF	20%	10V	
C714	1-135-977-31	ELECT	680uF	20%	10V	
C716	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C717	1-126-961-11	ELECT	2.2uF	20%	50V	
C718	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C719	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C720	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C721	1-126-963-11	ELECT	4.7uF	20%	50V	
⚠ C902	1-112-869-51	CERAMIC	470PF	10%	250V	
⚠ C903	1-112-869-51	CERAMIC	470PF	10%	250V	
⚠ C905	1-114-594-21	FILM	0.22uF	10%	250V	
⚠ C907	1-114-594-21	FILM	0.22uF	10%	250V	(EX66: EA)
⚠ C907	1-116-397-21	FILM	0.33uF	10%	250V	(EX66: EXCEPT EA)
⚠ C911	1-113-925-11	CERAMIC	0.01uF	20%	250V	
⚠ C912	1-113-925-11	CERAMIC	0.01uF	20%	250V	
⚠ C914	1-114-347-22	ELECT(BLOCK)	330uF	20%	450V	
⚠ C916	1-112-869-51	CERAMIC	470PF	10%	250V	

AMP SMPS (EX66)

Ref. No.	Part No.	Description			Remark
C930	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C931	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C932	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C934	1-112-300-91	CERAMIC CHIP	4.7uF	10%	10V
⚠ C935	1-116-819-51	CERAMIC	560PF	5%	1KV
C937	1-107-909-11	ELECT	47uF	20%	50V
⚠ C939	1-116-393-11	FILM	0.0033uF	5%	400V
⚠ C941	1-114-160-91	CERAMIC CHIP	1uF	10%	100V
C967	1-114-994-11	ELECT	2200uF	20%	35V
C969	1-112-244-11	ELECT	2200uF	20%	25V
C971	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C976	1-126-965-11	ELECT	22uF	20%	50V
C977	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C980	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
CN600	1-568-838-11	CONNECTOR, FFC 21P			
CN700	1-564-506-11	PLUG, CONNECTOR 3P			
CN901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
		< DIODE >			
D601	6-500-848-01	DIODE MC2840-T112-1			
D700	8-719-079-47	DIODE RK36LF-A4			
D701	6-502-964-01	DIODE DZ2J047M0L			
D702	6-503-020-01	DIODE DZ2J082M0L			
D703	6-500-335-01	DIODE MC2838-T112-1			
D704	6-502-964-01	DIODE DZ2J047M0L			
⚠ D902	8-719-077-77	DIODE D3SB60F3			
D930	6-503-040-01	DIODE DZ2J300M0L			
D931	6-503-044-01	DIODE DZ2J360M0L			
D932	6-503-036-01	DIODE DZ2J220M0L			
D933	6-503-032-01	DIODE DZ2J180M0L			
D934	6-503-030-01	DIODE DZ2J160M0L			
⚠ D938	6-500-241-01	DIODE SARS03			
D940	8-719-063-74	DIODE D1NL20U-TR2			
D941	8-719-083-71	DIODE UDZSUSTE-1730B			
D965	6-501-849-01	DIODE FMX-22SL			
⚠ D967	6-503-458-01	DIODE RK49LF-T1			
		< FUSE >			
⚠ F901	1-523-067-51	FUSE (T5AH/250V)			
⚠ F931	1-523-085-11	FUSE (T2.5A/250V)			
		< FERRITE BEAD >			
FB600	1-414-594-11	INDUCTOR, FERRITE BEAD			
FB601	1-414-594-11	INDUCTOR, FERRITE BEAD			
		< IC >			
IC600	8-759-278-58	IC NJM4558V-TE2			
IC601	8-759-278-58	IC NJM4558V-TE2			
IC602	6-713-034-01	IC KIA7812API-U/PF			
IC603	6-701-680-01	IC PST3629NR			
IC604	6-701-680-01	IC PST3629NR			
IC700	6-712-613-01	IC SI-3010KM-TLS			
IC701	6-713-032-01	IC KIA7809API-U/PF			
IC702	6-713-793-01	IC SI-3010KFEK			
IC703	6-712-617-01	IC SI-8008TM-TLS			
⚠ IC930	6-716-855-01	IC STR-Y6766			
IC932	6-711-947-01	IC MM1431CURE			

Ref. No.	Part No.	Description			Remark
		< JUMPER RESISTOR >			
JR600	1-216-864-11	SHORT CHIP	0		
JR601	1-216-864-11	SHORT CHIP	0		
JR602	1-216-864-11	SHORT CHIP	0		
JR603	1-216-864-11	SHORT CHIP	0		
JR605	1-216-864-11	SHORT CHIP	0		
JR607	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L602	1-456-680-11	COIL, CHOKE	10uH		
L603	1-456-680-11	COIL, CHOKE	10uH		
L604	1-456-680-11	COIL, CHOKE	10uH		
L605	1-456-680-11	COIL, CHOKE	10uH		
L606	1-457-078-11	COIL, AIR-CORE			
L607	1-457-077-11	COIL, AIR-CORE			
L608	1-457-077-11	COIL, AIR-CORE			
L609	1-457-078-11	COIL, AIR-CORE			
L700	1-400-424-11	COIL, CHOKE	47uH		
⚠ L903	1-456-082-11	COIL, LINE FILTER			
⚠ L904	1-456-082-11	COIL, LINE FILTER (EX66: EA)			
L966	1-457-878-65	COIL, CHOKE	2.2uH		
L967	1-457-578-11	COIL, CHOKE	10uH		
		< PHOTO COUPLER >			
⚠ PH930	6-600-276-01	PHOTO COUPLER PS2561AL1-1-V-W			
		< TRANSISTOR >			
Q601	8-729-620-13	TRANSISTOR 2SC4154TP-1EF			
Q602	8-729-040-76	TRANSISTOR KTA1273-Y-AT			
Q604	6-551-699-01	TRANSISTOR ISA1602AM1-T111-1EF			
Q605	6-551-699-01	TRANSISTOR ISA1602AM1-T111-1EF			
Q606	6-551-699-01	TRANSISTOR ISA1602AM1-T111-1EF			
Q607	6-551-699-01	TRANSISTOR ISA1602AM1-T111-1EF			
Q700	8-729-620-13	TRANSISTOR 2SC4154TP-1EF			
Q701	8-729-040-76	TRANSISTOR KTA1273-Y-AT			
Q702	8-729-620-13	TRANSISTOR 2SC4154TP-1EF			
Q703	8-729-620-13	TRANSISTOR 2SC4154TP-1EF			
Q704	6-551-699-01	TRANSISTOR ISA1602AM1-T111-1EF			
Q705	8-729-620-13	TRANSISTOR 2SC4154TP-1EF			
Q706	8-729-620-13	TRANSISTOR 2SC4154TP-1EF			
Q707	8-729-620-13	TRANSISTOR 2SC4154TP-1EF			
Q708	8-729-036-86	TRANSISTOR KTC3203Y-AT			
Q709	8-729-620-13	TRANSISTOR 2SC4154TP-1EF			
Q711	8-729-038-23	TRANSISTOR RT1N141C-TP-1			
Q712	8-729-620-13	TRANSISTOR 2SC4154TP-1EF			
Q930	8-729-056-46	TRANSISTOR 2SC5053T100Q			
Q970	8-729-620-13	TRANSISTOR 2SC4154TP-1EF			
		< RESISTOR >			
R600	1-216-821-11	METAL CHIP	1K	5%	1/10W
R601	1-216-837-11	METAL CHIP	22K	5%	1/10W
R602	1-216-837-11	METAL CHIP	22K	5%	1/10W
R603	1-216-842-11	METAL CHIP	56K	5%	1/10W
R604	1-216-842-11	METAL CHIP	56K	5%	1/10W
R605	1-216-837-11	METAL CHIP	22K	5%	1/10W
R606	1-216-837-11	METAL CHIP	22K	5%	1/10W
R607	1-216-842-11	METAL CHIP	56K	5%	1/10W
R608	1-216-842-11	METAL CHIP	56K	5%	1/10W
R609	1-216-825-11	METAL CHIP	2.2K	5%	1/10W

AMP SMPS (EX66)

Ref. No.	Part No.	Description				Remark
R611	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R612	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R613	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R615	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R616	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R617	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R618	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R619	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R620	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R621	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R625	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R627	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R628	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R629	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R630	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R631	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R632	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R633	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R634	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R635	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R636	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R637	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R638	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R639	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R640	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R641	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R642	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R643	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R644	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R645	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R646	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R647	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R648	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R649	1-216-864-11	SHORT CHIP	0			
R663	1-218-879-11	METAL CHIP	22K	0.5%	1/10W	
R670	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R671	1-216-836-11	METAL CHIP	18K	5%	1/10W	
R672	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R673	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R674	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R699	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R700	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R701	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R702	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R703	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R704	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R705	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R706	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R707	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	
R708	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	
R709	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R710	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R711	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R712	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R713	1-216-853-11	METAL CHIP	470K	5%	1/10W	
R715	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R716	1-218-881-11	METAL CHIP	27K	0.5%	1/10W	
R717	1-218-883-11	METAL CHIP	33K	0.5%	1/10W	
R718	1-218-835-11	METAL CHIP	330	0.5%	1/10W	
R719	1-218-839-11	METAL CHIP	470	0.5%	1/10W	

Ref. No.	Part No.	Description				Remark
R720	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	
R721	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W	
R722	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R723	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R724	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R725	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R726	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R727	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R728	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R729	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R730	1-216-809-11	METAL CHIP	100	5%	1/10W	
R731	1-216-809-11	METAL CHIP	100	5%	1/10W	
R732	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R733	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R734	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R737	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R738	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R739	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R740	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R741	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R743	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R744	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R745	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R746	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R747	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R752	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R753	1-216-821-11	METAL CHIP	1K	5%	1/10W	
⚠ R901	1-240-938-51	METAL	1.5M	5%	1/2W	F
⚠ R933	1-257-117-11	METAL	0.33	5%	2W	F
⚠ R934	1-257-117-11	METAL	0.33	5%	2W	F
R935	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R936	1-218-887-11	METAL CHIP	47K	0.5%	1/10W	
R937	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R938	1-218-881-11	METAL CHIP	27K	0.5%	1/10W	
R939	1-216-845-11	METAL CHIP	100K	5%	1/10W	
⚠ R944	1-215-929-11	METAL OXIDE	100K	5%	3W	F
R945	1-216-809-11	METAL CHIP	100	5%	1/10W	
R947	1-216-793-11	METAL CHIP	4.7	5%	1/10W	
R965	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R971	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R972	1-216-864-11	SHORT CHIP	0			
R975	1-216-864-11	SHORT CHIP	0			
R976	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R977	1-218-883-11	METAL CHIP	33K	0.5%	1/10W	
R978	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W	
R987	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R989	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R990	1-216-833-11	METAL CHIP	10K	5%	1/10W	
⚠ R991	1-215-871-11	METAL OXIDE	2.2K	5%	1W	F
⚠ R992	1-215-871-11	METAL OXIDE	2.2K	5%	1W	F
⚠ R995	1-215-871-11	METAL OXIDE	2.2K	5%	1W	F
⚠ R996	1-215-871-11	METAL OXIDE	2.2K	5%	1W	F
		< TRANSFORMER >				
⚠ T901	1-445-950-11	TRANSFORMER, CONVERTER				
		< TERMINAL BOARD >				
TB600	1-694-785-11	TERMINAL BOARD (4P) (SPEAKERS)				

AMP SMPS (EX66) **AMP SMPS (EX88)**

Ref. No.	Part No.	Description			Remark
		< THERMISTOR >			
⚠ TH902	1-811-315-31	POWER THERMISTOR			
		< VARISTOR >			
⚠ VDR901	1-802-839-11	VARISTOR			

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Ref. No.	Part No.	Description			Remark
	A-1800-481-A	AMP SMPS BOARD, COMPLETE (EX88)			
		*************************			
	7-685-647-71	SCREW +BVTP 3X10 TYPE2 IT-3			
		< CAPACITOR >			
C600	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C604	1-137-189-11	FILM	0.18uF	5%	50V
C605	1-137-189-11	FILM	0.18uF	5%	50V
C607	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C608	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C609	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C610	1-126-957-11	ELECT	0.22uF	20%	50V
C612	1-104-658-91	ELECT	100uF	20%	10V
C613	1-126-933-11	ELECT	100uF	20%	16V
C614	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C619	1-126-933-11	ELECT	100uF	20%	16V
C620	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C624	1-126-947-11	ELECT	47uF	20%	35V
C625	1-128-550-11	ELECT	2200uF	20%	50V
C626	1-126-971-11	ELECT	470uF	20%	50V
C627	1-126-971-11	ELECT	470uF	20%	50V
C628	1-126-971-11	ELECT	470uF	20%	50V
C629	1-126-971-11	ELECT	470uF	20%	50V
⚠ C638	1-135-618-11	MYLAR	1uF	5%	63V
⚠ C639	1-135-618-11	MYLAR	1uF	5%	63V
⚠ C640	1-135-618-11	MYLAR	1uF	5%	63V
⚠ C641	1-135-618-11	MYLAR	1uF	5%	63V
C642	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C643	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C644	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C645	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C646	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C647	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C648	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C649	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C650	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C651	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C652	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C653	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C654	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C655	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C656	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C657	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C658	1-126-960-11	ELECT	1uF	20%	50V
C659	1-126-964-11	ELECT	10uF	20%	50V
C660	1-100-881-91	CERAMIC CHIP	47uF	20%	6.3V
C661	1-100-881-91	CERAMIC CHIP	47uF	20%	6.3V
C662	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C663	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C664	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C665	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C666	1-165-908-11	CERAMIC CHIP	1uF	10%	10V

Ref. No.	Part No.	Description			Remark
C667	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C668	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C669	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C676	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C677	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
⚠ C902	1-112-869-51	CERAMIC	470PF	10%	250V
⚠ C903	1-112-869-51	CERAMIC	470PF	10%	250V
⚠ C905	1-114-594-21	FILM	0.22uF	10%	250V
⚠ C907	1-116-397-21	FILM	0.33uF	10%	250V
⚠ C909	1-112-870-51	CERAMIC	0.001uF	20%	250V
⚠ C911	1-113-925-11	CERAMIC	0.01uF	20%	250V
⚠ C912	1-113-925-11	CERAMIC	0.01uF	20%	250V
⚠ C914	1-114-347-22	ELECT(BLOCK)	330uF	20%	450V
C930	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
⚠ C931	1-117-815-11	FILM	0.001uF	3%	1.5KV
⚠ C932	1-114-160-91	CERAMIC CHIP	1uF	10%	100V
C933	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C934	1-107-904-11	ELECT	3.3uF	20%	50V
C935	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C936	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
⚠ C937	1-128-562-11	ELECT	47uF	20%	100V
C938	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
⚠ C939	1-116-393-11	FILM	0.0033uF	5%	400V
C943	1-128-963-11	ELECT	1000uF	20%	50V
C944	1-128-963-11	ELECT	1000uF	20%	50V
C946	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C947	1-165-895-91	CERAMIC CHIP	0.1uF	10%	50V
C950	1-126-965-91	ELECT	22uF	20%	50V
C966	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
⚠ C967	1-117-220-81	CERAMIC	150PF	5%	2KV
C968	1-116-078-11	CERAMIC CHIP	1uF	10%	50V
C969	1-112-300-91	CERAMIC CHIP	4.7uF	10%	10V
C970	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
⚠ C971	1-107-930-91	ELECT	22uF	20%	100V
C972	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
⚠ C975	1-112-470-11	CERAMIC	470PF	10%	500V
C977	1-100-756-91	CERAMIC CHIP	0.047uF	10%	50V
C982	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C983	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C986	1-112-232-11	ELECT	2700uF	20%	16V
C989	1-126-965-91	ELECT	22uF	20%	50V
		< CONNECTOR >			
CN600	1-568-838-11	CONNECTOR, FFC 21P			
CN601	1-842-646-11	CONNECTOR, BOARD TO BOARD 16P			
CN901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
		< DIODE >			
D601	6-500-848-01	DIODE MC2840-T112-1			
⚠ D901	8-719-510-53	DIODE D4SB60L			
D930	6-503-040-01	DIODE DZ2J300M0L			
D931	6-502-961-01	DIODE DA2J10100L			
D932	6-503-040-01	DIODE DZ2J300M0L			
D934	6-502-976-01	DIODE DZ2J150M0L			
D935	6-502-961-01	DIODE DA2J10100L			
D937	6-502-967-01	DIODE DZ2J06200L			
D938	6-502-961-01	DIODE DA2J10100L			
D939	6-502-961-01	DIODE DA2J10100L			
⚠ D940	6-500-241-01	DIODE SARS03			
D941	8-719-063-74	DIODE D1NL20U-TR2			

AMP SMPS (EX88)

Ref. No.	Part No.	Description	Remark
D943	6-501-849-01	DIODE FMX-22SL	
D944	6-503-032-01	DIODE DZ2J180M0L	
D967	6-502-961-01	DIODE DA2J10100L	
D968	6-503-036-01	DIODE DZ2J220M0L	
D969	6-503-032-01	DIODE DZ2J180M0L	
D970	8-719-063-74	DIODE D1NL20U-TR2	
D972	6-503-036-01	DIODE DZ2J220M0L	
⚠ D975	6-502-234-01	DIODE EG01C LF-F7	
⚠ D981	6-503-458-01	DIODE RK49LF-T1	
D984	8-719-083-71	DIODE UDZSUSTE-1730B	
D985	6-500-335-01	DIODE MC2838-T112-1	
		< FUSE >	
⚠ F901	1-523-067-51	FUSE (T5AH/250V)	
		< IC >	
IC600	8-759-278-58	IC NJM4558V-TE2	
IC601	8-759-278-58	IC NJM4558V-TE2	
IC602	6-712-613-01	IC SI-3010KM-TLS	
IC603	6-701-680-01	IC PST3629NR	
⚠ IC931	6-716-854-01	IC STR-X6768N	
IC932	6-711-947-01	IC MM1431CURE	
⚠ IC965	6-714-671-01	IC STR-Y6763	
IC966	6-711-947-01	IC MM1431CURE	
		< JUMPER RESISTOR >	
JR600	1-216-864-11	SHORT CHIP 0	
JR601	1-216-864-11	SHORT CHIP 0	
JR602	1-216-864-11	SHORT CHIP 0	
JR603	1-216-864-11	SHORT CHIP 0	
JR604	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	
JR608	1-216-864-11	SHORT CHIP 0	
		< COIL >	
L602	1-456-680-11	COIL, CHOKE 10uH	
L603	1-456-680-11	COIL, CHOKE 10uH	
L604	1-456-680-11	COIL, CHOKE 10uH	
L605	1-456-680-11	COIL, CHOKE 10uH	
L606	1-457-078-11	COIL, AIR-CORE	
L607	1-457-077-11	COIL, AIR-CORE	
L608	1-457-077-11	COIL, AIR-CORE	
L609	1-457-078-11	COIL, AIR-CORE	
⚠ L901	1-460-371-11	COIL, LINE FILTER	
⚠ L902	1-460-371-11	COIL, LINE FILTER	
L930	1-457-878-65	COIL, CHOKE 2.2uH	
L969	1-457-578-11	COIL, CHOKE 10uH	
		< PHOTO COUPLER >	
⚠ PH930	6-600-276-01	PHOTO COUPLER PS2561AL1-1-V-W	
⚠ PH931	6-600-276-01	PHOTO COUPLER PS2561AL1-1-V-W	
⚠ PH965	6-600-276-01	PHOTO COUPLER PS2561AL1-1-V-W	
		< TRANSISTOR >	
Q600	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q601	6-551-699-01	TRANSISTOR ISA1602AM1-T111-1EF	
Q602	8-729-038-37	TRANSISTOR RT1N141M-TP-1	
Q603	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	

Ref. No.	Part No.	Description	Remark
Q604	6-551-699-01	TRANSISTOR ISA1602AM1-T111-1EF	
Q605	6-551-699-01	TRANSISTOR ISA1602AM1-T111-1EF	
Q606	6-551-699-01	TRANSISTOR ISA1602AM1-T111-1EF	
Q607	6-551-699-01	TRANSISTOR ISA1602AM1-T111-1EF	
Q608	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q930	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q932	6-551-678-01	TRANSISTOR 2SA1364-T111-1DE	
Q933	8-729-038-42	TRANSISTOR RT1N441M-TP-1	
Q934	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q935	8-729-038-42	TRANSISTOR RT1N441M-TP-1	
Q965	8-729-056-46	TRANSISTOR 2SC5053T100Q	
		< RESISTOR >	
R600	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R601	1-216-835-11	METAL CHIP 15K 5% 1/10W	
R602	1-216-835-11	METAL CHIP 15K 5% 1/10W	
R603	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R604	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R606	1-216-835-11	METAL CHIP 15K 5% 1/10W	
R607	1-216-835-11	METAL CHIP 15K 5% 1/10W	
R608	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R609	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R610	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R611	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R612	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R613	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R614	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R615	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
⚠ R616	1-243-669-11	METAL 0.05 5% 5W	F
R617	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R618	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R619	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R620	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R621	1-218-855-11	METAL CHIP 2.2K 0.5% 1/10W	
R622	1-218-855-11	METAL CHIP 2.2K 0.5% 1/10W	
R623	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R624	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R625	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R626	1-218-895-11	METAL CHIP 100K 0.5% 1/10W	
R627	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
R628	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
R629	1-216-791-11	METAL CHIP 3.3 5% 1/10W	
R630	1-216-791-11	METAL CHIP 3.3 5% 1/10W	
R631	1-216-791-11	METAL CHIP 3.3 5% 1/10W	
R632	1-216-791-11	METAL CHIP 3.3 5% 1/10W	
R633	1-216-791-11	METAL CHIP 3.3 5% 1/10W	
R634	1-216-791-11	METAL CHIP 3.3 5% 1/10W	
R635	1-216-791-11	METAL CHIP 3.3 5% 1/10W	
R636	1-216-791-11	METAL CHIP 3.3 5% 1/10W	
R637	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R638	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R639	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R640	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R641	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R642	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R643	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R644	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R645	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R646	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R651	1-216-841-11	METAL CHIP 47K 5% 1/10W	

AMP SMPS (EX88) **AMP SMPS (EX99)**

Ref. No.	Part No.	Description			Remark	
R663	1-218-879-11	METAL CHIP	22K	0.5%	1/10W	
R670	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R671	1-216-836-11	METAL CHIP	18K	5%	1/10W	
R672	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R673	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R674	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R675	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R699	1-216-833-11	METAL CHIP	10K	5%	1/10W	
⚠ R901	1-240-938-51	METAL	1.5M	5%	1/2W	F
⚠ R930	1-248-050-11	METAL	0.22	5%	2W	F
⚠ R931	1-248-050-11	METAL	0.22	5%	2W	F
R932	1-216-813-11	METAL CHIP	220	5%	1/10W	
R933	1-218-823-11	METAL CHIP	100	0.5%	1/10W	
R934	1-216-832-11	METAL CHIP	8.2K	5%	1/10W	
R935	1-216-797-11	METAL CHIP	10	5%	1/10W	
R936	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R937	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R938	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R939	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R941	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R942	1-216-833-11	METAL CHIP	10K	5%	1/10W	
⚠ R943	1-215-929-11	METAL OXIDE	100K	5%	3W	F
⚠ R944	1-215-929-11	METAL OXIDE	100K	5%	3W	F
R945	1-216-801-11	METAL CHIP	22	5%	1/10W	
R946	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R947	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R949	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R950	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R951	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R954	1-216-864-11	SHORT CHIP	0			
R956	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R957	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W	
R958	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W	
R959	1-218-879-11	METAL CHIP	22K	0.5%	1/10W	
R960	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R961	1-216-821-11	METAL CHIP	1K	5%	1/10W	
⚠ R965	1-257-123-11	FUSIBLE	2.2	10%	1/2W	F
⚠ R966	1-216-348-00	METAL OXIDE	0.82	5%	1W	F
R967	1-218-887-11	METAL CHIP	47K	0.5%	1/10W	
R968	1-216-797-11	METAL CHIP	10	5%	1/10W	
R969	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R970	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R971	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	
R972	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	
R973	1-218-271-11	METAL CHIP	2K	5%	1/10W	
R974	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	
R975	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	
R977	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	
R978	1-216-793-11	METAL CHIP	4.7	5%	1/10W	
R979	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R980	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R981	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R984	1-216-813-11	METAL CHIP	220	5%	1/10W	
R985	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W	
R986	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W	
R987	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R988	1-216-864-11	SHORT CHIP	0			
R989	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R992	1-216-809-11	METAL CHIP	100	5%	1/10W	
⚠ R998	1-218-642-11	METAL OXIDE	100K	5%	1W	F

Ref. No.	Part No.	Description				Remark
		< TRANSFORMER >				
⚠ T901	1-445-952-11	TRANSFORMER, CONVERTER (MAIN)				
⚠ T903	1-445-951-11	TRANSFORMER, CONVERTER (SUB)				
		< TERMINAL BOARD >				
TB600	1-694-785-11	TERMINAL BOARD (4P) (SPEAKERS)				
		< THERMISTOR >				
⚠ TH902	1-811-315-31	POWER THERMISTOR				
		< VARISTOR >				
⚠ VDR901	1-802-839-11	VARISTOR				

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Ref. No.	Part No.	Description				Remark
	A-1800-479-A	AMP SMPS BOARD, COMPLETE (EX99)				
		*************************				
	7-685-647-71	SCREW +BVTP 3X10 TYPE2 IT-3				
		< CAPACITOR >				
C600	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C601	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	
C606	1-137-189-11	FILM	0.18uF	5%	50V	
C607	1-126-964-11	ELECT	10uF	20%	50V	
C608	1-126-964-11	ELECT	10uF	20%	50V	
C609	1-126-964-11	ELECT	10uF	20%	50V	
C610	1-126-964-11	ELECT	10uF	20%	50V	
C611	1-137-189-11	FILM	0.18uF	5%	50V	
C612	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C613	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C614	1-126-933-11	ELECT	100uF	20%	16V	
C615	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C616	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C617	1-126-957-11	ELECT	0.22uF	20%	50V	
C618	1-104-658-91	ELECT	100uF	20%	10V	
C625	1-126-947-11	ELECT	47uF	20%	35V	
C626	1-104-661-91	ELECT	330uF	20%	16V	
⚠ C627	1-128-555-91	ELECT	470uF	20%	63V	
⚠ C628	1-128-555-91	ELECT	470uF	20%	63V	
⚠ C629	1-128-555-91	ELECT	470uF	20%	63V	
⚠ C630	1-128-555-91	ELECT	470uF	20%	63V	
⚠ C631	1-135-632-51	ELECT	2200uF	20%	63V	
C633	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C635	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
⚠ C640	1-135-618-11	MYLAR	1uF	5%	63V	
⚠ C641	1-135-618-11	MYLAR	1uF	5%	63V	
⚠ C642	1-116-866-91	MYLAR	1uF	10%	100V	
⚠ C643	1-116-866-91	MYLAR	1uF	10%	100V	
C645	1-126-972-11	ELECT	1000uF	20%	50V	
C646	1-126-972-11	ELECT	1000uF	20%	50V	
C647	1-126-972-11	ELECT	1000uF	20%	50V	
C648	1-126-972-11	ELECT	1000uF	20%	50V	
C649	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C650	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C651	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C652	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C653	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C654	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C655	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C656	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	

Ref. No.	Part No.	Description			Remark
C657	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C658	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C659	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C660	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C661	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C662	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C663	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C664	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C665	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C666	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C667	1-100-881-91	CERAMIC CHIP	47uF	20%	6.3V
C668	1-100-881-91	CERAMIC CHIP	47uF	20%	6.3V
C669	1-100-881-91	CERAMIC CHIP	47uF	20%	6.3V
C670	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C671	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C672	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C673	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C674	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C675	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C676	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C677	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C678	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
⚠ C902	1-112-869-51	CERAMIC	470PF	10%	250V
⚠ C903	1-112-869-51	CERAMIC	470PF	10%	250V
⚠ C905	1-114-594-21	FILM	0.22uF	10%	250V
⚠ C907	1-116-397-21	FILM	0.33uF	10%	250V
⚠ C909	1-112-870-51	CERAMIC	0.001uF	20%	250V
⚠ C910	1-112-866-51	CERAMIC	100PF	10%	250V
⚠ C911	1-113-925-11	CERAMIC	0.01uF	20%	250V
⚠ C912	1-113-925-11	CERAMIC	0.01uF	20%	250V
⚠ C914	1-112-529-11	ELECT(BLOCK)	390uF	20%	450V
C930	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
⚠ C931	1-117-815-11	FILM	0.001uF	3%	1.5KV
⚠ C932	1-114-160-91	CERAMIC CHIP	1uF	10%	100V
C933	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C934	1-107-904-11	ELECT	3.3uF	20%	50V
C935	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C936	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
⚠ C937	1-128-562-11	ELECT	47uF	20%	100V
C938	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
⚠ C939	1-116-393-11	FILM	0.0033uF	5%	400V
⚠ C943	1-137-901-21	ELECT	1000uF	20%	63V
⚠ C944	1-137-901-21	ELECT	1000uF	20%	63V
C946	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C947	1-165-895-91	CERAMIC CHIP	0.1uF	10%	50V
⚠ C950	1-128-551-11	ELECT	22uF	20%	63V
C966	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
⚠ C967	1-117-220-81	CERAMIC	150PF	5%	2KV
C968	1-116-078-11	CERAMIC CHIP	1uF	10%	50V
C969	1-112-300-91	CERAMIC CHIP	4.7uF	10%	10V
C970	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
⚠ C971	1-107-930-91	ELECT	22uF	20%	100V
C972	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
⚠ C975	1-112-470-11	CERAMIC	470PF	10%	500V
C977	1-100-756-91	CERAMIC CHIP	0.047uF	10%	50V
C982	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C983	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C986	1-112-232-11	ELECT	2700uF	20%	16V
⚠ C989	1-128-551-11	ELECT	22uF	20%	63V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CN600	1-784-784-11	CONNECTOR, FFC 23P	
CN601	1-842-646-11	CONNECTOR, BOARD TO BOARD 16P	
CN602	1-842-797-11	CONNECTOR, BOARD TO BOARD 6P	
CN901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
		< DIODE >	
D603	6-502-961-01	DIODE DA2J10100L	
D604	6-502-961-01	DIODE DA2J10100L	
⚠ D902	6-502-994-01	DIODE D10XB60 F	
D930	6-503-040-01	DIODE DZ2J300M0L	
D931	6-502-961-01	DIODE DA2J10100L	
D932	6-503-040-01	DIODE DZ2J300M0L	
D934	6-502-976-01	DIODE DZ2J150M0L	
D935	6-502-961-01	DIODE DA2J10100L	
D937	6-502-967-01	DIODE DZ2J06200L	
D938	6-502-961-01	DIODE DA2J10100L	
D939	6-502-961-01	DIODE DA2J10100L	
⚠ D940	6-500-241-01	DIODE SARS03	
D941	8-719-063-74	DIODE D1NL20U-TR2	
D943	6-501-849-01	DIODE FMX-22SL	
D944	6-503-032-01	DIODE DZ2J180M0L	
D967	6-502-961-01	DIODE DA2J10100L	
D968	6-503-036-01	DIODE DZ2J220M0L	
D969	6-503-032-01	DIODE DZ2J180M0L	
D970	8-719-063-74	DIODE D1NL20U-TR2	
D972	6-503-036-01	DIODE DZ2J220M0L	
⚠ D975	6-502-234-01	DIODE EG01C LF-F7	
⚠ D981	6-503-458-01	DIODE RK49LF-T1	
D984	8-719-083-71	DIODE UDZSUSTE-1730B	
D985	6-500-335-01	DIODE MC2838-T112-1	
		< FUSE >	
⚠ F901	1-523-042-51	FUSE (T6.3AH/250V)	
		< IC >	
IC600	8-759-278-58	IC NJM4558V-TE2	
IC601	8-759-278-58	IC NJM4558V-TE2	
IC602	6-712-613-01	IC SI-3010KM-TLS	
IC603	6-701-680-01	IC PST3629NR	
⚠ IC931	6-716-854-01	IC STR-X6768N	
IC932	6-711-947-01	IC MM1431CURE	
⚠ IC965	6-714-671-01	IC STR-Y6763	
IC966	6-711-947-01	IC MM1431CURE	
		< JUMPER RESISTOR >	
JR600	1-216-864-11	SHORT CHIP 0	
JR601	1-216-864-11	SHORT CHIP 0	
JR602	1-216-864-11	SHORT CHIP 0	
JR603	1-216-864-11	SHORT CHIP 0	
JR604	1-216-864-11	SHORT CHIP 0	
JR605	1-216-864-11	SHORT CHIP 0	
JR606	1-216-864-11	SHORT CHIP 0	
		< COIL >	
L601	1-456-680-11	COIL, CHOKE 10uH	
L602	1-456-680-11	COIL, CHOKE 10uH	
L603	1-456-680-11	COIL, CHOKE 10uH	
L604	1-456-680-11	COIL, CHOKE 10uH	
L605	1-457-078-11	COIL, AIR-CORE	

AMP SMPS (EX99)

Ref. No.	Part No.	Description				Remark
L606	1-457-078-11	COIL, AIR-CORE				
L607	1-457-077-11	COIL, AIR-CORE				
L608	1-457-077-11	COIL, AIR-CORE				
⚠ L901	1-460-371-11	COIL, LINE FILTER				
⚠ L902	1-460-371-11	COIL, LINE FILTER				
L930	1-457-878-65	COIL, CHOKE	2.2uH			
L969	1-457-578-11	COIL, CHOKE	10uH			
		< PHOTO COUPLER >				
⚠ PH930	6-600-276-01	PHOTO COUPLER	PS2561AL1-1-V-W			
⚠ PH931	6-600-276-01	PHOTO COUPLER	PS2561AL1-1-V-W			
⚠ PH965	6-600-276-01	PHOTO COUPLER	PS2561AL1-1-V-W			
		< TRANSISTOR >				
Q600	8-729-038-37	TRANSISTOR	RT1N141M-TP-1			
Q601	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q602	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q603	6-551-699-01	TRANSISTOR	ISA1602AM1-T111-1EF			
Q604	6-551-699-01	TRANSISTOR	ISA1602AM1-T111-1EF			
Q605	6-551-699-01	TRANSISTOR	ISA1602AM1-T111-1EF			
Q606	6-551-699-01	TRANSISTOR	ISA1602AM1-T111-1EF			
Q607	6-551-699-01	TRANSISTOR	ISA1602AM1-T111-1EF			
Q609	6-551-699-01	TRANSISTOR	ISA1602AM1-T111-1EF			
Q610	6-551-699-01	TRANSISTOR	ISA1602AM1-T111-1EF			
Q930	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q932	6-551-678-01	TRANSISTOR	2SA1364-T111-1DE			
Q933	8-729-038-42	TRANSISTOR	RT1N441M-TP-1			
Q934	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q935	8-729-038-42	TRANSISTOR	RT1N441M-TP-1			
Q965	8-729-056-46	TRANSISTOR	2SC5053T100Q			
		< RESISTOR >				
R600	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R601	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R602	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R603	1-216-834-11	METAL CHIP	12K	5%	1/10W	
R604	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R605	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R606	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R607	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R608	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R609	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R610	1-216-834-11	METAL CHIP	12K	5%	1/10W	
R611	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R612	1-216-834-11	METAL CHIP	12K	5%	1/10W	
R613	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R614	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R615	1-216-834-11	METAL CHIP	12K	5%	1/10W	
R616	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R617	1-216-853-11	METAL CHIP	470K	5%	1/10W	
R618	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R620	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R621	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R622	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R623	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R624	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	
R625	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R626	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R627	1-216-837-11	METAL CHIP	22K	5%	1/10W	
⚠ R628	1-243-669-11	METAL	0.05	5%	5W	F
R629	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R630	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
⚠ R633	1-215-868-00	METAL OXIDE	680	5%	1W	F
⚠ R634	1-215-868-00	METAL OXIDE	680	5%	1W	F
R635	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R636	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R637	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R638	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R639	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R643	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R644	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R645	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R646	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R647	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R648	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R649	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R650	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R651	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R654	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R655	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R656	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R657	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R658	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R659	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R661	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R663	1-218-877-11	METAL CHIP	18K	0.5%	1/10W	
R664	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R665	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R668	1-216-805-11	METAL CHIP	47	5%	1/10W	
R669	1-216-805-11	METAL CHIP	47	5%	1/10W	
R670	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R671	1-216-836-11	METAL CHIP	18K	5%	1/10W	
R672	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R673	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R674	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R675	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R676	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R677	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R678	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R679	1-216-821-11	METAL CHIP	1K	5%	1/10W	
⚠ R901	1-240-938-51	METAL	1.5M	5%	1/2W	F
⚠ R914	1-246-374-11	FUSIBLE	0.1	10%	1W	F
⚠ R930	1-248-050-11	METAL	0.22	5%	2W	F
⚠ R931	1-248-050-11	METAL	0.22	5%	2W	F
R932	1-216-813-11	METAL CHIP	220	5%	1/10W	
R933	1-218-823-11	METAL CHIP	100	0.5%	1/10W	
R934	1-216-832-11	METAL CHIP	8.2K	5%	1/10W	
R935	1-216-797-11	METAL CHIP	10	5%	1/10W	
R936	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R937	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R938	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R939	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R941	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R942	1-216-833-11	METAL CHIP	10K	5%	1/10W	
⚠ R943	1-215-929-11	METAL OXIDE	100K	5%	3W	F
⚠ R944	1-215-929-11	METAL OXIDE	100K	5%	3W	F
R945	1-216-801-11	METAL CHIP	22	5%	1/10W	
R946	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R947	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R949	1-216-833-11	METAL CHIP	10K	5%	1/10W	

Ref. No.	Part No.	Description				Remark
R950	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R951	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R954	1-216-864-11	SHORT CHIP	0			
R956	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R957	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W	
R958	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W	
R959	1-218-883-11	METAL CHIP	33K	0.5%	1/10W	
R960	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R961	1-216-821-11	METAL CHIP	1K	5%	1/10W	
⚠ R965	1-257-123-11	FUSIBLE	2.2	10%	1/2W	F
⚠ R966	1-216-348-00	METAL OXIDE	0.82	5%	1W	F
R967	1-218-887-11	METAL CHIP	47K	0.5%	1/10W	
R968	1-216-797-11	METAL CHIP	10	5%	1/10W	
R969	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R970	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R971	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	
R972	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	
R973	1-218-271-11	METAL CHIP	2K	5%	1/10W	
R974	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	
R975	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	
R977	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R978	1-216-793-11	METAL CHIP	4.7	5%	1/10W	
R979	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R980	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R981	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R984	1-216-813-11	METAL CHIP	220	5%	1/10W	
R985	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W	
R986	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W	
R987	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R988	1-216-864-11	SHORT CHIP	0			
R989	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R992	1-216-809-11	METAL CHIP	100	5%	1/10W	
⚠ R998	1-218-642-11	METAL OXIDE	100K	5%	1W	F

< RELAY >

⚠ RY600	1-755-307-21	RELAY

< TRANSFORMER >

⚠ T901	1-445-952-11	TRANSFORMER, CONVERTER (MAIN)
⚠ T903	1-445-951-11	TRANSFORMER, CONVERTER (SUB)

< TERMINAL BOARD >

TB600	1-694-785-11	TERMINAL BOARD (4P) (SPEAKERS)
TB601	1-780-812-11	TERMINAL BOARD (2P) (SUBWOOFER)

< THERMISTOR >

⚠ TH902	1-811-315-31	POWER THERMISTOR

< VARISTOR >

⚠ VDR901	1-802-839-11	VARISTOR

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A-1800-258-A BD76 BOARD, COMPLETE
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< CAPACITOR >

Ref. No.	Part No.	Description				Remark
C101	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
C102	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C103	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C104	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C105	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C106	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	
C107	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C108	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C110	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	
C111	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C112	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C113	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C116	1-117-681-11	ELECT CHIP	100uF	20%	16V	
C117	1-100-756-91	CERAMIC CHIP	0.047uF	10%	50V	
C118	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C119	1-117-681-11	ELECT CHIP	100uF	20%	16V	
C120	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C121	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C122	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C123	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C124	1-117-681-11	ELECT CHIP	100uF	20%	16V	
C125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C127	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C128	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C129	1-117-681-11	ELECT CHIP	100uF	20%	16V	
C130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C131	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C201	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C202	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C204	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C206	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C207	1-117-681-11	ELECT CHIP	100uF	20%	16V	
C208	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C209	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C301	1-128-394-11	ELECT CHIP	220uF	20%	10V	
C302	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C303	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C304	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C401	1-117-681-11	ELECT CHIP	100uF	20%	16V	
C402	1-117-681-11	ELECT CHIP	100uF	20%	16V	
C405	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C406	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
C407	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
C415	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
C416	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
C417	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
C418	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C901	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C902	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C903	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	
C904	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C905	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C906	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C907	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C908	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C909	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C951	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V	
C952	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V	
C953	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V	
C955	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V	

BD76 EFX-MODULE

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CN201	1-770-425-51	CONNECTOR, FFC/FPC 16P			
CN401	1-820-119-41	CONNECTOR, FFC/FPC 21P			
CN901	1-820-112-41	CONNECTOR, FFC/FPC 9P			
		< IC >			
IC101	6-713-623-01	IC LC786950T-US-H			
IC301	6-710-637-01	IC BA5826HFP-E2			
IC901	A-1768-193-A	IC LC87F1JJ2AU-SQFP-H (for SERVICE)			
		< TRANSISTOR >			
Q201	6-551-120-01	TRANSISTOR 2SA2119K			
		< RESISTOR >			
R101	1-216-815-11	METAL CHIP	330	5%	1/10W
R102	1-216-833-11	METAL CHIP	10K	5%	1/10W
R103	1-216-864-11	SHORT CHIP	0		
R104	1-216-864-11	SHORT CHIP	0		
R105	1-216-864-11	SHORT CHIP	0		
R106	1-216-864-11	SHORT CHIP	0		
R107	1-216-843-11	METAL CHIP	68K	5%	1/10W
R108	1-216-821-11	METAL CHIP	1K	5%	1/10W
R109	1-216-821-11	METAL CHIP	1K	5%	1/10W
R111	1-216-837-11	METAL CHIP	22K	5%	1/10W
R112	1-216-864-11	SHORT CHIP	0		
R113	1-216-819-11	METAL CHIP	680	5%	1/10W
R114	1-216-819-11	METAL CHIP	680	5%	1/10W
R116	1-216-843-11	METAL CHIP	68K	5%	1/10W
R117	1-216-833-11	METAL CHIP	10K	5%	1/10W
R118	1-216-809-11	METAL CHIP	100	5%	1/10W
R120	1-216-833-11	METAL CHIP	10K	5%	1/10W
R121	1-216-833-11	METAL CHIP	10K	5%	1/10W
R122	1-216-833-11	METAL CHIP	10K	5%	1/10W
R123	1-216-833-11	METAL CHIP	10K	5%	1/10W
R124	1-216-833-11	METAL CHIP	10K	5%	1/10W
R126	1-216-864-11	SHORT CHIP	0		
R129	1-216-809-11	METAL CHIP	100	5%	1/10W
R201	1-218-446-11	METAL CHIP	1	5%	1/10W
R202	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R203	1-216-864-11	SHORT CHIP	0		
R301	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R302	1-216-839-11	METAL CHIP	33K	5%	1/10W
R303	1-216-834-11	METAL CHIP	12K	5%	1/10W
R304	1-216-833-11	METAL CHIP	10K	5%	1/10W
R305	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R401	1-216-295-91	SHORT CHIP	0		
R402	1-216-295-91	SHORT CHIP	0		
R403	1-216-809-11	METAL CHIP	100	5%	1/10W
R404	1-216-809-11	METAL CHIP	100	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-809-11	METAL CHIP	100	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R408	1-216-809-11	METAL CHIP	100	5%	1/10W
R409	1-216-809-11	METAL CHIP	100	5%	1/10W
R411	1-216-809-11	METAL CHIP	100	5%	1/10W
R412	1-216-864-11	SHORT CHIP	0		
R413	1-216-864-11	SHORT CHIP	0		
R414	1-216-809-11	METAL CHIP	100	5%	1/10W
R415	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R416	1-216-809-11	METAL CHIP	100	5%	1/10W
R417	1-216-295-91	SHORT CHIP	0		
R901	1-216-809-11	METAL CHIP	100	5%	1/10W
R902	1-216-809-11	METAL CHIP	100	5%	1/10W
R903	1-216-857-11	METAL CHIP	1M	5%	1/10W
R904	1-216-864-11	SHORT CHIP	0		
R905	1-216-809-11	METAL CHIP	100	5%	1/10W
R906	1-216-809-11	METAL CHIP	100	5%	1/10W
R907	1-216-809-11	METAL CHIP	100	5%	1/10W
R908	1-216-809-11	METAL CHIP	100	5%	1/10W
R909	1-216-809-11	METAL CHIP	100	5%	1/10W
R910	1-216-845-11	METAL CHIP	100K	5%	1/10W
R911	1-216-809-11	METAL CHIP	100	5%	1/10W
R912	1-216-845-11	METAL CHIP	100K	5%	1/10W
R913	1-216-809-11	METAL CHIP	100	5%	1/10W
R914	1-216-845-11	METAL CHIP	100K	5%	1/10W
R922	1-216-809-11	METAL CHIP	100	5%	1/10W
R923	1-216-809-11	METAL CHIP	100	5%	1/10W
R924	1-216-809-11	METAL CHIP	100	5%	1/10W
R951	1-216-835-11	METAL CHIP	15K	5%	1/10W
R952	1-216-835-11	METAL CHIP	15K	5%	1/10W
R953	1-216-803-11	METAL CHIP	33	5%	1/10W
R954	1-216-803-11	METAL CHIP	33	5%	1/10W
R955	1-216-864-11	SHORT CHIP	0		
		< VIBRATOR >			
X101	1-795-101-21	VIBRATOR, CERAMIC (16.934MHz)			
X901	1-814-365-11	QUARTZ CRYSTAL UNITS (12MHz)			

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	Part No.	Description	Remark
	A-1800-461-A	EFX-MODULE BOARD, COMPLETE (EX99)	
	A-1800-462-A	EFX-MODULE BOARD, COMPLETE (EX88)	
	A-1800-463-A	EFX-MODULE BOARD, COMPLETE	(EX66: EXCEPT EA)
	A-1822-267-A	EFX-MODULE BOARD, COMPLETE (EX66: EA)	

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Ref. No.	Part No.	Description				Remark
		< CAPACITOR >				
C800	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V	(EX99)
C800	1-100-581-81	CERAMIC CHIP	0.0047uF	10%	50V	(EX66/EX88)
C803	1-112-692-11	CERAMIC CHIP	1000PF	5%	50V	
C804	1-107-820-81	CERAMIC CHIP	0.1uF		16V	
C807	1-112-068-11	CERAMIC CHIP	220PF	10%	50V	
C808	1-107-820-81	CERAMIC CHIP	0.1uF		16V	
C809	1-164-934-11	CERAMIC CHIP	330PF	10%	50V	
C810	1-107-820-81	CERAMIC CHIP	0.1uF		16V	
C811	1-107-820-81	CERAMIC CHIP	0.1uF		16V	
C812	1-107-820-81	CERAMIC CHIP	0.1uF		16V	
C813	1-107-820-81	CERAMIC CHIP	0.1uF		16V	
C814	1-114-325-11	CERAMIC CHIP	0.1uF	10%	25V	
C815	1-114-325-11	CERAMIC CHIP	0.1uF	10%	25V	
C816	1-114-817-11	CERAMIC CHIP	2.2uF	10%	50V	(EX66/EX88)
C817	1-114-817-11	CERAMIC CHIP	2.2uF	10%	50V	(EX66/EX88)
C820	1-114-325-11	CERAMIC CHIP	0.1uF	10%	25V	
C821	1-114-325-11	CERAMIC CHIP	0.1uF	10%	25V	
C824	1-114-817-11	CERAMIC CHIP	2.2uF	10%	50V	(EX66/EX88)
C825	1-114-817-11	CERAMIC CHIP	2.2uF	10%	50V	(EX66/EX88)

Ref. No.	Part No.	Description			Remark
C826	1-116-782-91	CERAMIC CHIP	2.2uF	10%	100V (EX99)
C827	1-116-782-91	CERAMIC CHIP	2.2uF	10%	100V (EX99)
C828	1-116-782-91	CERAMIC CHIP	2.2uF	10%	100V (EX99)
C829	1-116-782-91	CERAMIC CHIP	2.2uF	10%	100V (EX99)
		< CONNECTOR >			
CN801	1-842-455-11	PIN HEADER 12P			
CN802	1-842-458-11	PIN HEADER 6P			
CN803	1-842-458-11	PIN HEADER 6P			
		< DIODE >			
D804	6-503-454-01	DIODE P6SMBJ54A-5 (EX99)			
D804	6-503-455-01	DIODE P6SMBJ40A-5 (EX88)			
D805	6-503-454-01	DIODE P6SMBJ54A-5 (EX99)			
D805	6-503-455-01	DIODE P6SMBJ40A-5 (EX88)			
D806	6-503-454-01	DIODE P6SMBJ54A-5 (EX99)			
D806	6-503-455-01	DIODE P6SMBJ40A-5 (EX88)			
D807	6-503-454-01	DIODE P6SMBJ54A-5 (EX99)			
D807	6-503-455-01	DIODE P6SMBJ40A-5 (EX88)			
D808	6-503-543-01	DIODE SS110R3 (EX66)			
D809	6-503-543-01	DIODE SS110R3 (EX66)			
D810	6-503-543-01	DIODE SS110R3 (EX66)			
D811	6-503-543-01	DIODE SS110R3 (EX66)			
D815	6-500-335-01	DIODE MC2838-T112-1 (EX66)			
D816	6-500-335-01	DIODE MC2838-T112-1 (EX66)			
D817	6-500-848-01	DIODE MC2840-T112-1 (EX88/EX99)			
D818	6-500-848-01	DIODE MC2840-T112-1 (EX88/EX99)			
D819	6-500-848-01	DIODE MC2840-T112-1 (EX88/EX99)			
D820	6-500-848-01	DIODE MC2840-T112-1 (EX88/EX99)			
		< GROUND TERMINAL >			
ET800	1-780-434-11	TERMINAL, GROUND (ON BOARD CONTACT)			(EX66: EA)
ET801	1-780-434-11	TERMINAL, GROUND (ON BOARD CONTACT)			(EX66: EA)
		< IC >			
IC800	6-716-817-01	IC TAS5630BPHDR (EX99)			
IC800	6-716-818-01	IC TAS5613APHDR (EX88)			
IC800	6-716-819-01	IC TAS5611APHDR (EX66)			
		< RESISTOR >			
R800	1-218-941-81	METAL CHIP	100	5%	1/16W
R802	1-218-941-81	METAL CHIP	100	5%	1/16W
R806	1-218-941-81	METAL CHIP	100	5%	1/16W
R808	1-208-927-11	METAL CHIP	47K	0.5%	1/16W (EX99)
R808	1-218-974-11	METAL CHIP	56K	5%	1/16W (EX66/EX88)
R809	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R810	1-208-695-11	METAL CHIP	3.3K	0.5%	1/16W (EX99)
R810	1-208-909-11	METAL CHIP	8.2K	0.5%	1/16W (EX66/EX88)
R811	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R812	1-218-990-81	SHORT CHIP	0		
R813	1-218-990-81	SHORT CHIP	0 (EX99)		
R814	1-218-990-81	SHORT CHIP	0 (EX66/EX88)		

Ref. No.	Part No.	Description			Remark
R815	1-218-990-81	SHORT CHIP	0		
R817	1-220-802-11	METAL CHIP	3.3	5%	1/16W
R818	1-220-802-11	METAL CHIP	3.3	5%	1/16W
R819	1-220-802-11	METAL CHIP	3.3	5%	1/16W
R820	1-220-802-11	METAL CHIP	3.3	5%	1/16W
R822	1-218-941-81	METAL CHIP	100	5%	1/16W
R823	1-218-941-81	METAL CHIP	100	5%	1/16W
R824	1-218-941-81	METAL CHIP	100	5%	1/16W
R825	1-218-941-81	METAL CHIP	100	5%	1/16W

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	A-1800-425-A	PANEL BOARD, COMPLETE (EX99: E2, E51, AR)
	A-1800-426-A	PANEL BOARD, COMPLETE (EX99: MX)
	A-1800-428-A	PANEL BOARD, COMPLETE (EX88: E2, E51, AR)
	A-1800-429-A	PANEL BOARD, COMPLETE (EX88: MX)
	A-1800-432-A	PANEL BOARD, COMPLETE (EX66: EA)
	A-1800-433-A	PANEL BOARD, COMPLETE (EX66: E2, E51, AR)
	A-1800-434-A	PANEL BOARD, COMPLETE (EX66: E4)

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< CAPACITOR >

Ref. No.	Part No.	Description			Remark
C301	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C308	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C309	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C318	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C319	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C320	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C322	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C323	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C325	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C328	1-126-157-11	ELECT	10uF	20%	16V
C329	1-124-234-00	ELECT	22uF	20%	16V
C331	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C333	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C335	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C336	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C337	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C342	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C343	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C344	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C345	1-124-584-00	ELECT	100uF	20%	10V
C353	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C356	1-126-518-11	ELECT	470uF	20%	4V
C359	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C360	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C361	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C362	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C363	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V (EX99)
C363	1-164-173-11	CERAMIC CHIP	0.0039uF	10%	50V (EX66/EX88)
C364	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V (EX99)
C364	1-164-173-11	CERAMIC CHIP	0.0039uF	10%	50V (EX66/EX88)
C365	1-124-234-00	ELECT	22uF	20%	16V
C366	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C367	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C370	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C371	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C372	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V

PANEL

Ref. No.	Part No.	Description			Remark
C373	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C374	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C375	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C376	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C377	1-124-257-00	ELECT	2.2uF	20%	50V
C378	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C379	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C380	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C381	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C382	1-126-176-11	ELECT	220uF	20%	10V
C384	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C385	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C388	1-124-584-00	ELECT	100uF	20%	6.3V
C389	1-124-257-00	ELECT	2.2uF	20%	50V
C390	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C391	1-124-589-11	ELECT	47uF	20%	16V
C392	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C393	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C395	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C396	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C397	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C398	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C399	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C401	1-137-652-91	CERAMIC CHIP	0.039uF	10%	16V (EX66/EX99)
C401	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V (EX88)
C402	1-137-652-91	CERAMIC CHIP	0.039uF	10%	16V (EX66/EX99)
C402	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V (EX88)
C405	1-137-652-91	CERAMIC CHIP	0.039uF	10%	16V (EX66/EX99)
C405	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V (EX88)
C406	1-137-652-91	CERAMIC CHIP	0.039uF	10%	16V (EX66/EX99)
C406	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V (EX88)
C408	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C409	1-124-584-00	ELECT	100uF	20%	10V
C410	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C411	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C412	1-124-257-00	ELECT	2.2uF	20%	50V (EX99)
C413	1-126-157-11	ELECT	10uF	20%	16V (EX99)
C416	1-165-908-11	CERAMIC CHIP	1uF	10%	10V (EX99)
C418	1-136-170-00	FILM	0.27uF	5%	50V (EX99)
C419	1-136-170-00	FILM	0.27uF	5%	50V (EX99)
C420	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C421	1-165-112-11	CERAMIC CHIP	0.33uF		16V (EX99)
C422	1-104-509-11	CERAMIC CHIP	0.018uF	10%	16V (EX99)
C423	1-124-589-11	ELECT	47uF	20%	16V (EX99)
C425	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V (EX99)
C426	1-124-257-00	ELECT	2.2uF	20%	50V

Ref. No.	Part No.	Description			Remark
C427	1-124-257-00	ELECT	2.2uF	20%	50V
C428	1-126-157-11	ELECT	10uF	20%	16V
C430	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C431	1-124-257-00	ELECT	2.2uF	20%	50V
C433	1-124-584-00	ELECT	100uF	20%	10V
C434	1-137-189-11	FILM	0.18uF	5%	50V (EX88/EX99)
C435	1-137-189-11	FILM	0.18uF	5%	50V (EX88/EX99)
C436	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C437	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C438	1-126-176-11	ELECT	220uF	20%	10V
C439	1-126-157-11	ELECT	10uF	20%	16V
C440	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C441	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C442	1-124-257-00	ELECT	2.2uF	20%	50V
C444	1-124-584-00	ELECT	100uF	20%	10V
C445	1-126-157-11	ELECT	10uF	20%	16V
C448	1-131-664-91	CERAMIC CHIP	0.15uF	10%	10V (EX66)
C449	1-131-664-91	CERAMIC CHIP	0.15uF	10%	10V (EX66)
C450	1-126-157-11	ELECT	10uF	20%	16V
C451	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C452	1-124-584-00	ELECT	100uF	20%	10V (EX99)
C454	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (EX99)
C456	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C457	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C458	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C459	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C462	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN301	1-779-544-21	CONNECTOR, FFC (LIF (NON-ZIF)) 7P			
CN302	1-784-727-11	CONNECTOR, FFC 5P			
CN303	1-779-289-11	CONNECTOR, FFC (LIF (NON-ZIF)) 21P			
CN304	1-819-866-11	CONNECTOR, USB (A) 4P (USB)			
CN305	1-568-850-11	CONNECTOR, FFC 7P			
CN306	1-784-784-11	CONNECTOR, FFC 23P (EX99)			
CN307	1-568-838-11	CONNECTOR, FFC 21P (EX66/EX88)			
		< DIODE >			
D301	6-503-056-01	LED 1L0341Y23E0CA602-II (LCD BACK LIGHT)			
D302	6-503-056-01	LED 1L0341Y23E0CA602-II (LCD BACK LIGHT)			
D303	6-503-055-01	LED 1L434XA22E0DDT01 (VOLUME RING)			
D305	6-503-456-01	LED 1L434XA22E0DD701 (DSGX)			
D307	6-503-055-01	LED 1L434XA22E0DDT01 (VOLUME RING)			
D309	6-503-055-01	LED 1L434XA22E0DDT01 (VOLUME RING)			
D310	6-503-456-01	LED 1L434XA22E0DD701 (EQ)			
D311	6-502-961-01	DIODE DA2J10100L			
D312	8-719-058-24	DIODE RB501V-40TE-17			
D313	8-719-058-24	DIODE RB501V-40TE-17			
D315	6-500-334-01	DIODE MC2836-T112-1			
D316	8-719-058-24	DIODE RB501V-40TE-17			
D318	6-502-961-01	DIODE DA2J10100L			
D319	6-500-848-01	DIODE MC2840-T112-1			
D324	6-500-848-01	DIODE MC2840-T112-1			
D325	6-500-848-01	DIODE MC2840-T112-1			
D326	6-500-848-01	DIODE MC2840-T112-1			

PANEL

Ref. No.	Part No.	Description	Remark
		< IC >	
IC301	6-600-767-01	IC PNA4823M02S0 (IR)	
IC302	A-1826-385-A	IC LC87F7DJ2CVU-QIP-H (for SERVICE)	
IC303	8-759-598-69	IC BA6956AN	
IC304	6-714-881-01	IC MM1923DTRE	
IC305	8-759-278-58	IC NJM4558V-TE2	
IC306	6-713-384-01	IC BD3491FS-SE2	
IC307	6-701-680-01	IC PST3629NR	
IC308	8-759-359-49	IC NJM3414AV(TE2)	
		< JACK >	
J301	1-842-550-11	JACK BLOCK, PIN 2P (DVD/PC IN)	
J302	1-842-549-11	JACK (PHONES)	
		< JUMPER RESISTOR >	
JR301	1-216-864-11	SHORT CHIP 0	
JR302	1-216-864-11	SHORT CHIP 0	
JR303	1-216-864-11	SHORT CHIP 0	
JR304	1-216-864-11	SHORT CHIP 0	
JR305	1-216-864-11	SHORT CHIP 0	
JR306	1-216-864-11	SHORT CHIP 0	
JR307	1-216-864-11	SHORT CHIP 0	
JR308	1-216-864-11	SHORT CHIP 0	
JR309	1-216-864-11	SHORT CHIP 0	
JR310	1-216-864-11	SHORT CHIP 0	
JR311	1-216-864-11	SHORT CHIP 0	
JR313	1-216-864-11	SHORT CHIP 0	
		< LIQUID CRYSTAL DISPLAY >	
ND301	1-811-042-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< TRANSISTOR >	
Q301	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q302	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q303	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q304	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q305	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q308	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q309	6-551-699-01	TRANSISTOR ISA1602AM1-T111-1EF	
Q310	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q311	6-551-699-01	TRANSISTOR ISA1602AM1-T111-1EF (EX99)	
Q312	8-729-620-13	TRANSISTOR 2SC4154TP-1EF (EX99)	
Q313	8-729-620-13	TRANSISTOR 2SC4154TP-1EF (EX99)	
Q314	8-729-620-13	TRANSISTOR 2SC4154TP-1EF (EX99)	
Q315	8-729-620-13	TRANSISTOR 2SC4154TP-1EF (EX99)	
Q316	8-729-620-13	TRANSISTOR 2SC4154TP-1EF (EX99)	
Q317	8-729-620-13	TRANSISTOR 2SC4154TP-1EF (EX99)	
Q319	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q321	6-551-699-01	TRANSISTOR ISA1602AM1-T111-1EF	
Q324	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q325	8-729-043-90	TRANSISTOR IMX9T110	
		< RESISTOR >	
R200	1-216-864-11	SHORT CHIP 0	
R201	1-216-864-11	SHORT CHIP 0	
R202	1-216-864-11	SHORT CHIP 0	
R203	1-216-864-11	SHORT CHIP 0	
R204	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R300	1-216-839-11	METAL CHIP 33K 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R301	1-216-809-11	METAL CHIP 100 5% 1/10W	
R304	1-216-809-11	METAL CHIP 100 5% 1/10W	
R305	1-216-809-11	METAL CHIP 100 5% 1/10W	
R306	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R307	1-216-817-11	METAL CHIP 470 5% 1/10W	
R308	1-216-809-11	METAL CHIP 100 5% 1/10W	
R309	1-216-807-11	METAL CHIP 68 5% 1/10W	
R310	1-216-807-11	METAL CHIP 68 5% 1/10W	
R311	1-216-803-11	METAL CHIP 33 5% 1/10W	
R314	1-216-809-11	METAL CHIP 100 5% 1/10W	
R315	1-216-803-11	METAL CHIP 33 5% 1/10W	
R317	1-216-807-11	METAL CHIP 68 5% 1/10W	
R318	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R319	1-216-809-11	METAL CHIP 100 5% 1/10W	
R320	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R321	1-216-813-11	METAL CHIP 220 5% 1/10W	
R322	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R323	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R324	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R325	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R326	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R327	1-216-817-11	METAL CHIP 470 5% 1/10W	
R328	1-216-809-11	METAL CHIP 100 5% 1/10W	
R329	1-216-809-11	METAL CHIP 100 5% 1/10W	
R330	1-216-809-11	METAL CHIP 100 5% 1/10W	
R331	1-216-809-11	METAL CHIP 100 5% 1/10W	
R332	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R333	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R334	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R335	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R336	1-216-835-11	METAL CHIP 15K 5% 1/10W	
R337	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R338	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R339	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R340	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R341	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R342	1-216-832-11	METAL CHIP 8.2K 5% 1/10W	
R343	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R344	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R345	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R346	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R347	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R348	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R349	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R350	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R351	1-216-809-11	METAL CHIP 100 5% 1/10W	
R352	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R353	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R354	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R355	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R356	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R357	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R358	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R359	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R360	1-216-809-11	METAL CHIP 100 5% 1/10W	
R361	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R362	1-216-809-11	METAL CHIP 100 5% 1/10W	
R363	1-216-809-11	METAL CHIP 100 5% 1/10W	
R364	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R365	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	

PANEL

Ref. No.	Part No.	Description				Remark
R366	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R367	1-216-864-11	SHORT CHIP	0			
R368	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R369	1-216-821-11	METAL CHIP	1K	5%	1/10W	(EX66)
R369	1-216-833-11	METAL CHIP	10K	5%	1/10W	(EX88)
R370	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R371	1-216-833-11	METAL CHIP	10K	5%	1/10W	(EX88/EX99)
R372	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R373	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R374	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R375	1-216-821-11	METAL CHIP	1K	5%	1/10W	(EA)
R375	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	(E4)
R375	1-216-833-11	METAL CHIP	10K	5%	1/10W	(MX)
R375	1-216-837-11	METAL CHIP	22K	5%	1/10W	(E2, E51, AR)
R376	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R377	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R378	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R379	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R380	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R381	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R382	1-216-839-11	METAL CHIP	33K	5%	1/10W	
R383	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R384	1-216-839-11	METAL CHIP	33K	5%	1/10W	
R385	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R386	1-216-809-11	METAL CHIP	100	5%	1/10W	
R387	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R388	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R389	1-216-809-11	METAL CHIP	100	5%	1/10W	(EA)
R389	1-216-864-11	SHORT CHIP	0 (EXCEPT EA)			
R390	1-216-809-11	METAL CHIP	100	5%	1/10W	(EA)
R390	1-216-864-11	SHORT CHIP	0 (EXCEPT EA)			
R392	1-216-809-11	METAL CHIP	100	5%	1/10W	
R393	1-216-809-11	METAL CHIP	100	5%	1/10W	
R394	1-216-809-11	METAL CHIP	100	5%	1/10W	
R396	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R397	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R398	1-216-809-11	METAL CHIP	100	5%	1/10W	
R399	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R400	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R401	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R402	1-216-825-11	METAL CHIP	2.2K	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	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R406	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R407	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R409	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R410	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R411	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R412	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R413	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R414	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R416	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R417	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R418	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R419	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R420	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R421	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R422	1-216-842-11	METAL CHIP	56K	5%	1/10W	
R423	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R424	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R425	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R426	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R427	1-216-838-11	METAL CHIP	27K	5%	1/10W	(EX99)
R427	1-216-839-11	METAL CHIP	33K	5%	1/10W	(EX88)
R427	1-216-840-11	METAL CHIP	39K	5%	1/10W	(EX66)
R428	1-216-838-11	METAL CHIP	27K	5%	1/10W	(EX99)
R428	1-216-839-11	METAL CHIP	33K	5%	1/10W	(EX88)
R428	1-216-840-11	METAL CHIP	39K	5%	1/10W	(EX66)
R429	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R430	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R431	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R432	1-216-789-11	METAL CHIP	2.2	5%	1/10W	
R433	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R434	1-216-789-11	METAL CHIP	2.2	5%	1/10W	
R435	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R436	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R437	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R438	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R439	1-216-817-11	METAL CHIP	470	5%	1/10W	
R440	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R441	1-216-836-11	METAL CHIP	18K	5%	1/10W	(EX99)
R441	1-216-837-11	METAL CHIP	22K	5%	1/10W	(EX66/EX88)
R442	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R443	1-216-836-11	METAL CHIP	18K	5%	1/10W	(EX99)
R443	1-216-837-11	METAL CHIP	22K	5%	1/10W	(EX66/EX88)
R444	1-216-813-11	METAL CHIP	220	5%	1/10W	
R445	1-216-813-11	METAL CHIP	220	5%	1/10W	
R446	1-216-864-11	SHORT CHIP	0			
R447	1-216-841-11	METAL CHIP	47K	5%	1/10W	(EX99)
R448	1-216-841-11	METAL CHIP	47K	5%	1/10W	(EX99)
R449	1-216-837-11	METAL CHIP	22K	5%	1/10W	(EX99)
R451	1-216-821-11	METAL CHIP	1K	5%	1/10W	(EX99)
R452	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	(EX99)
R453	1-216-821-11	METAL CHIP	1K	5%	1/10W	(EX99)
R454	1-216-845-11	METAL CHIP	100K	5%	1/10W	(EX99)
R455	1-216-821-11	METAL CHIP	1K	5%	1/10W	(EX99)
R456	1-216-845-11	METAL CHIP	100K	5%	1/10W	(EX99)

Ref. No.	Part No.	Description			Remark
R458	1-216-837-11	METAL CHIP	22K	5%	1/10W (EX99)
R459	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (EX99)
R460	1-216-833-11	METAL CHIP	10K	5%	1/10W (EX99)
R461	1-216-833-11	METAL CHIP	10K	5%	1/10W (EX99)
R462	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (EX99)
R463	1-216-833-11	METAL CHIP	10K	5%	1/10W (EX99)
R464	1-216-845-11	METAL CHIP	100K	5%	1/10W (EX99)
R465	1-216-821-11	METAL CHIP	1K	5%	1/10W (EX99)
R466	1-216-821-11	METAL CHIP	1K	5%	1/10W (EX99)
R467	1-216-845-11	METAL CHIP	100K	5%	1/10W (EX99)
R468	1-216-821-11	METAL CHIP	1K	5%	1/10W (EX99)
R469	1-216-821-11	METAL CHIP	1K	5%	1/10W (EX99)
R470	1-216-845-11	METAL CHIP	100K	5%	1/10W (EX99)
R471	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R472	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R473	1-216-833-11	METAL CHIP	10K	5%	1/10W
R474	1-216-174-00	METAL CHIP	100	5%	1/8W
R475	1-216-837-11	METAL CHIP	22K	5%	1/10W
R476	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R477	1-216-839-11	METAL CHIP	33K	5%	1/10W
R478	1-216-174-00	METAL CHIP	100	5%	1/8W
R479	1-216-845-11	METAL CHIP	100K	5%	1/10W
R480	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R481	1-216-821-11	METAL CHIP	1K	5%	1/10W
R482	1-216-841-11	METAL CHIP	47K	5%	1/10W
R484	1-216-821-11	METAL CHIP	1K	5%	1/10W
R485	1-216-845-11	METAL CHIP	100K	5%	1/10W
R486	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R487	1-216-841-11	METAL CHIP	47K	5%	1/10W
R488	1-216-845-11	METAL CHIP	100K	5%	1/10W
R489	1-216-833-11	METAL CHIP	10K	5%	1/10W
R491	1-216-821-11	METAL CHIP	1K	5%	1/10W
R492	1-216-845-11	METAL CHIP	100K	5%	1/10W
R493	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R494	1-216-174-00	METAL CHIP	100	5%	1/8W
R495	1-216-833-11	METAL CHIP	10K	5%	1/10W
R496	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R497	1-216-839-11	METAL CHIP	33K	5%	1/10W
R498	1-216-174-00	METAL CHIP	100	5%	1/8W
R499	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
S301	1-771-410-21	SWITCH, TACTILE (I/⏻)			
S303	1-771-410-21	SWITCH, TACTILE (►II)			
S304	1-786-417-11	ENCODER, ROTARY (VOLUME)			
S305	1-771-410-21	SWITCH, TACTILE (⏏)			
S306	1-771-410-21	SWITCH, TACTILE (FUNCTION)			
S307	1-771-410-21	SWITCH, TACTILE (EQ)			
S308	1-771-410-21	SWITCH, TACTILE (OPTIONS)			
S309	1-771-410-21	SWITCH, TACTILE (TUNING– I◁◁ ◀◀)			

Ref. No.	Part No.	Description			Remark
S312	1-771-410-21	SWITCH, TACTILE (■)			
S313	1-771-410-21	SWITCH, TACTILE (REC TO USB)			
S314	1-771-410-21	SWITCH, TACTILE (DSGX)			
S315	1-771-410-21	SWITCH, TACTILE (ENTER)			
S316	1-771-410-21	SWITCH, TACTILE (TUNING+ ▶▶ ▷▷I)			
		< VIBRATOR >			
X301	1-814-067-11	OSCILLATOR, CRYSTAL (32.768kHz)			
X302	1-814-474-21	CERAMIC OSCILLATOR (20MHz)			

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REGULATOR BOARD (EX88)
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Ref. No.	Part No.	Description			Remark
	7-685-647-71	SCREW +BVTP 3X10 TYPE2 IT-3			
		< CAPACITOR >			
C700	1-126-935-11	ELECT	470uF	20%	16V
C701	1-126-964-11	ELECT	10uF	20%	50V
C702	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C703	1-126-947-11	ELECT	47uF	20%	35V
C705	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C706	1-126-964-11	ELECT	10uF	20%	50V
C707	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C708	1-126-947-11	ELECT	47uF	20%	35V
C709	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C710	1-126-935-11	ELECT	470uF	20%	16V
C713	1-104-658-91	ELECT	100uF	20%	10V
C714	1-135-977-31	ELECT	680uF	20%	10V
C716	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C717	1-126-961-11	ELECT	2.2uF	20%	50V
C718	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C719	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C720	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C721	1-126-963-11	ELECT	4.7uF	20%	50V
		< CONNECTOR >			
CN700	1-842-654-11	CONNECTOR, BOARD TO BOARD 16P			
* CN701	1-564-518-11	PLUG, CONNECTOR 3P			
		< DIODE >			
D700	8-719-079-47	DIODE RK36LF-A4			
D701	6-502-964-01	DIODE DZ2J047M0L			
D702	6-503-020-01	DIODE DZ2J082M0L			
D703	6-500-335-01	DIODE MC2838-T112-1			
D704	6-502-964-01	DIODE DZ2J047M0L			
		< FERRITE BEAD >			
FB700	1-414-594-11	INDUCTOR, FERRITE BEAD			
FB701	1-414-594-11	INDUCTOR, FERRITE BEAD			
		< IC >			
IC700	6-712-613-01	IC SI-3010KM-TLS			
IC701	6-713-032-01	IC KIA7809API-U/PF			
IC702	6-713-793-01	IC SI-3010KFEK			
IC703	6-712-617-01	IC SI-8008TM-TLS			
		< COIL >			
L700	1-400-424-11	COIL, CHOKE	47uH		

REGULATOR (EX88) **REGULATOR (EX99)**

Ref. No.	Part No.	Description				Remark
		< TRANSISTOR >				
Q700	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q701	8-729-040-76	TRANSISTOR	KTA1273-Y-AT			
Q702	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q703	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q704	6-551-699-01	TRANSISTOR	ISA1602AM1-T111-1EF			
Q705	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q706	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q707	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q708	8-729-036-86	TRANSISTOR	KTC3203Y-AT			
Q709	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q711	8-729-038-23	TRANSISTOR	RT1N141C-TP-1			
		< RESISTOR >				
R700	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R701	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R702	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R703	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R704	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R705	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R706	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R707	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	
R708	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	
R709	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R710	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R711	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R712	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R713	1-216-853-11	METAL CHIP	470K	5%	1/10W	
R715	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R716	1-218-881-11	METAL CHIP	27K	0.5%	1/10W	
R717	1-218-883-11	METAL CHIP	33K	0.5%	1/10W	
R718	1-218-835-11	METAL CHIP	330	0.5%	1/10W	
R719	1-218-839-11	METAL CHIP	470	0.5%	1/10W	
R720	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	
R721	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W	
R722	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R723	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R724	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R725	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R726	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R727	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R728	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R729	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R730	1-216-809-11	METAL CHIP	100	5%	1/10W	
R731	1-216-809-11	METAL CHIP	100	5%	1/10W	
R732	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R733	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R734	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R737	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R738	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R739	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R740	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R741	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R742	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R743	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R744	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R745	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R746	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R747	1-216-837-11	METAL CHIP	22K	5%	1/10W	

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Ref. No.	Part No.	Description				Remark
		REGULATOR BOARD (EX99)				
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	7-685-647-71	SCREW +BVTP 3X10 TYPE2 IT-3				
		< CAPACITOR >				
C700	1-126-935-11	ELECT	470uF	20%	16V	
C701	1-126-964-11	ELECT	10uF	20%	50V	
C702	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C703	1-126-947-11	ELECT	47uF	20%	35V	
C705	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C706	1-126-964-11	ELECT	10uF	20%	50V	
C707	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C708	1-126-947-11	ELECT	47uF	20%	35V	
C709	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C710	1-126-935-11	ELECT	470uF	20%	16V	
C713	1-104-658-91	ELECT	100uF	20%	10V	
C714	1-135-977-31	ELECT	680uF	20%	10V	
C716	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C717	1-126-961-11	ELECT	2.2uF	20%	50V	
C718	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C719	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C720	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C721	1-126-963-11	ELECT	4.7uF	20%	50V	
C722	1-126-960-11	ELECT	1uF	20%	50V	
C723	1-126-960-11	ELECT	1uF	20%	50V	
C724	1-126-964-11	ELECT	10uF	20%	50V	
		< CONNECTOR >				
CN700	1-842-654-11	CONNECTOR, BOARD TO BOARD 16P				
* CN701	1-794-042-11	CONNECTOR, BOARD TO BOARD 6P				
* CN702	1-564-518-11	PLUG, CONNECTOR 3P				
		< DIODE >				
D700	8-719-079-47	DIODE	RK36LF-A4			
D701	6-502-964-01	DIODE	DZ2J047M0L			
D702	6-503-020-01	DIODE	DZ2J082M0L			
D703	6-500-335-01	DIODE	MC2838-T112-1			
D704	6-502-964-01	DIODE	DZ2J047M0L			
D705	6-500-848-01	DIODE	MC2840-T112-1			
D706	6-500-848-01	DIODE	MC2840-T112-1			
		< FERRITE BEAD >				
FB700	1-414-594-11	INDUCTOR, FERRITE BEAD				
FB701	1-414-594-11	INDUCTOR, FERRITE BEAD				
		< IC >				
IC700	6-712-613-01	IC	SI-3010KM-TLS			
IC701	6-713-032-01	IC	KIA7809API-U/PF			
IC702	6-713-793-01	IC	SI-3010KFEK			
IC703	6-712-617-01	IC	SI-8008TM-TLS			
		< COIL >				
L700	1-400-424-11	COIL, CHOKE	47uH			
		< TRANSISTOR >				
Q700	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q701	8-729-040-76	TRANSISTOR	KTA1273-Y-AT			
Q702	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q703	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			

Ref. No.	Part No.	Description				Remark
Q704	6-551-699-01	TRANSISTOR	ISA1602AM1-T111-1EF			
Q705	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q706	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q707	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q708	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q709	8-729-036-86	TRANSISTOR	KTC3203Y-AT			
Q710	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
Q711	8-729-038-23	TRANSISTOR	RT1N141C-TP-1			
Q712	8-729-620-13	TRANSISTOR	2SC4154TP-1EF			
		< RESISTOR >				
R700	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R701	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R702	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R703	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R704	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R705	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R706	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R707	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	
R708	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R709	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R710	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R711	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R712	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R713	1-216-853-11	METAL CHIP	470K	5%	1/10W	
R715	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R716	1-218-881-11	METAL CHIP	27K	0.5%	1/10W	
R717	1-218-883-11	METAL CHIP	33K	0.5%	1/10W	
R718	1-218-835-11	METAL CHIP	330	0.5%	1/10W	
R719	1-218-839-11	METAL CHIP	470	0.5%	1/10W	
R720	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	
R721	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W	
R722	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R723	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R724	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R725	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R726	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R727	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R728	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R729	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R730	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R731	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R732	1-216-809-11	METAL CHIP	100	5%	1/10W	
R733	1-216-809-11	METAL CHIP	100	5%	1/10W	
R734	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R735	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R736	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R739	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R740	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R741	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R742	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R743	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R744	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R745	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R746	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R747	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R748	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R749	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R750	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	
R751	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R752	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R753	1-216-833-11	METAL CHIP	10K	5%	1/10W	

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TUNER BOARD
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Ref. No.	Part No.	Description				Remark
		< CAPACITOR >				
C501	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	
C502	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	
C503	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	
C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C505	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	
C506	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C511	1-124-584-00	ELECT	100uF	20%	10V	
C512	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	
C513	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C514	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C516	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	
		< CONNECTOR >				
CN501	1-568-850-11	CONNECTOR, FFC 7P				
* CN502	1-506-680-11	PLUS, CONNECTOR (2.5mm) 3P				(ANTENNA FM/AM)
		< DIODE >				
D501	6-501-579-01	DIODE	MC2837			
D502	6-501-579-01	DIODE	MC2837			
D503	6-501-579-01	DIODE	MC2837			
		< BPF >				
FL501	1-236-711-21	FILTER, BAND PASS				
		< IC >				
IC501	6-716-080-01	IC	S-815A33AMC-I2STFU			
IC502	6-716-361-01	IC	RS5B800-0002E2			
		< JUMPER RESISTOR >				
JR501	1-216-864-11	SHORT CHIP	0			
JR502	1-216-864-11	SHORT CHIP	0			
JR510	1-216-864-11	SHORT CHIP	0			
		< COIL >				
L501	1-457-998-11	COIL, AM ANTENNA				
L502	1-481-524-11	INDUCTOR	10uH			
L503	1-481-521-11	INDUCTOR	1uH			
		< RESISTOR >				
R501	1-216-809-11	METAL CHIP	100	5%	1/10W	
R502	1-216-809-11	METAL CHIP	100	5%	1/10W	
R503	1-216-809-11	METAL CHIP	100	5%	1/10W	
R504	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R505	1-216-864-11	SHORT CHIP	0			
R506	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R507	1-216-864-11	SHORT CHIP	0			
R508	1-216-809-11	METAL CHIP	100	5%	1/10W	
R509	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	
		< VIBRATOR >				
X501	1-767-317-11	VIBRATOR, CRYSTAL (32.768kHz)				

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Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**************	
⚠ 3	1-834-966-41	CORD, POWER-SUPPLY (E2, E4, E51)	
⚠ 3	1-837-309-21	CORD, POWER-SUPPLY (EA)	
⚠ 3	1-837-312-11	CORD, POWER-SUPPLY (AR)	
⚠ 3	1-837-344-11	CORD, POWER-SUPPLY (MX)	
⚠ 4	1-569-008-33	ADAPTOR, CONVERSION (E2, E4, E51)	
55	1-839-177-21	CABLE, FLEXIBLE FLAT (7 CORE)	
58	1-839-169-21	CABLE, FLEXIBLE FLAT (21 CORE)	
59	1-832-875-21	CABLE, FLEXIBLE FLAT (21 CORE) (EX66)	
59	1-839-178-21	CABLE, FLEXIBLE FLAT (21 CORE) (EX88)	
59	1-839-179-21	CABLE, FLEXIBLE FLAT (23 CORE) (EX99)	
104	1-839-176-21	CABLE, FLEXIBLE FLAT (5 CORE)	
⚠ 107	1-856-037-11	OPTICAL PICK-UP (DA11MMVGP)	
111	1-834-268-21	WIRE (FLAT TYPE) (16 CORE)	
FAN701	1-855-006-11	FAN, DC	
S001	1-771-853-11	SWITCH, DETECTION (LIMIT)	

MEMO

REVISION HISTORY

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

Ver.	Date	Description of Revision
1.0	2011.03	New