

TA-FA30ES

SERVICE MANUAL

*AEP Model
UK Model
E Model
Australian Model
Chinese Model*



Photo: GOLD model

SPECIFICATIONS

System

Power Amplifier: Pure-complementary SEPP MOS FET power amplifier with all stages directly coupled
Preamplifier: Low-noise, high-gain equalizer amplifier
Power section: Large-capacity power supply advanced STD

Rated output

4 ohms, 120 W + 120 W (DIN 0.7%, 1 kHz)
8 ohms, 80 W + 80 W (DIN 0.7%, 1 kHz)

Speaker Impedance

4 to 16 ohms

Output bandwidth (8 ohms)

10 Hz to 100 kHz (at 40 W output, and high-frequency distortion rate of 0.08%)

Total harmonic distortion

0.008% (at 8 ohms, 10 W output)

Damping factor

100 (8 ohms, 1 kHz)

Intermodulation (1M) distortion (60 Hz : 7 kHz = 4 : 1)

0.008% (8 ohms)

Throughrate

125 V/ μ sec, 250 V/ μ sec (Inside)

Residual noise

Less than 100 μ V (network A)

Equalizer deviation

PHONO MM: 20 Hz to 20 kHz, ± 5 dB

Frequency response

TUNER, CD, AUX, TAPE1/DAT, TAPE2/MD: 7 Hz to 100 kHz $^{+0}_{-3}$ dB

S/N

PHONO MC: 78 dB (network A, 0.5 mV)
MM: 95 dB (network A, 5 mV)
TUNER, CD, AUX, TAPE1/DAT, TAPE2/MD: 105 dB

Inputs

Input sensitivity and impedance

PHONO MC: 0.17 mV, 100 ohms
MM: 2.5 mV, 50 kilohms
TUNER, CD, AUX, TAPE1/DAT, TAPE2/MD: 150 mV, 20 kilohms

Maximum input capability (1 kHz)

PHONO MC: 9 mV
MM: 150 mV

Outputs

Output level/impedance

REC OUT 1, 2: 150 mV, 1 kilohm
PHONES: 10 mW (at 8 ohms)

Tone controls

BASS (100 Hz): ± 7 dB
TREBLE (10 kHz): ± 7 dB

General

Power requirements

230 V AC, 50/60 Hz

Power consumption

220 W

Dimensions (approx) (w/h/d)

430 $\times$ 150 $\times$ 415 mm incl. projecting parts and controls

Mass (approx)

11.0 kg

Supplied accessories

Remote commander (remote) RM-S326 (1)
Sony batteries R6 (size-AA) (2)

Design and specifications are subject to change without notice.

INTEGRATED STEREO AMPLIFIER



SONY®

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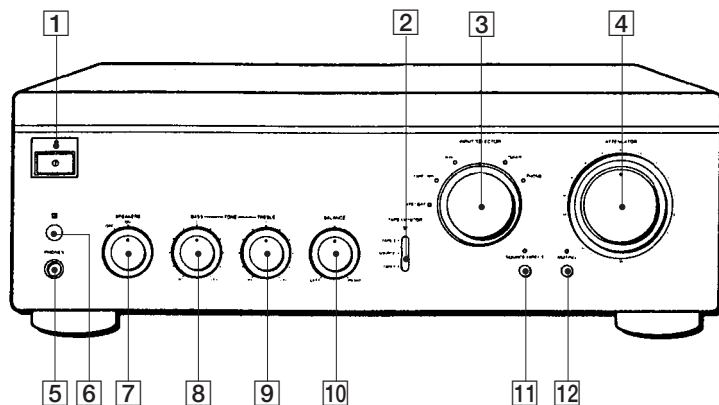
SAFETY-RELATED COMPONENT WARNING!!

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

SECTION 1 GENERAL

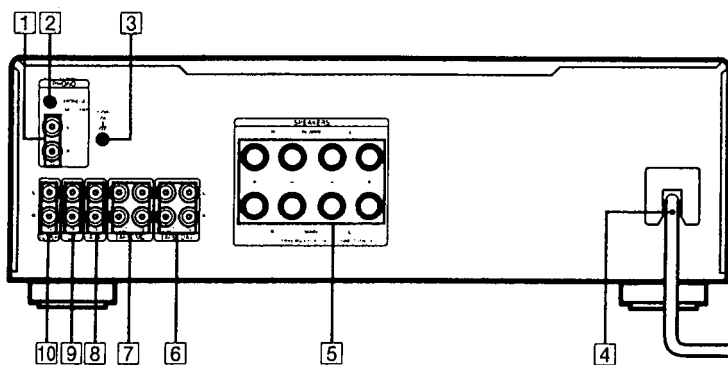
LOCATION OF CONTROLS

Front Panel



- 1 ① (Power) switch and indicator
- 2 TAPE MONITOR switch and indicator
- 3 INPUT SELECTOR switch and indicator
- 4 ATTENUATOR control
- 5 PHONES jack
- 6 Remote control sensor
- 7 SPEAKERS switch
- 8 BASS control
- 9 TREBLE control
- 10 BALANCE control
- 11 SOURCE DIRECT switch and indicator
- 12 MUTING switch and indicator

Rear Panel

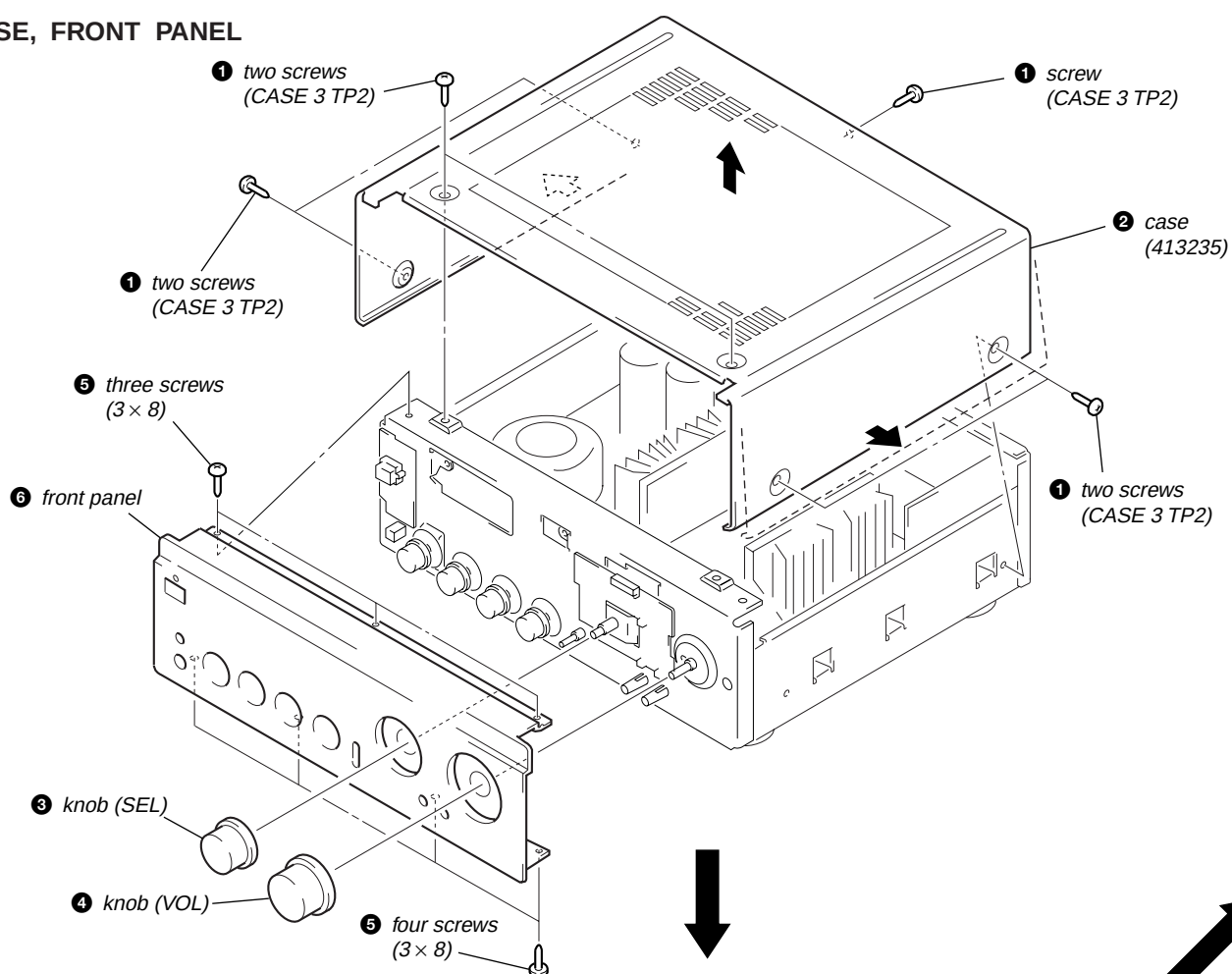


- 1 PHONO
- 2 CARTRIDGE MM/MC
- 3 SIGNAL GND
- 4 Mains lead
- 5 SPEAKERS MAIN/BI-WIRE
- 6 TAPE 1/DAT
- 7 TAPE 2/MD
- 8 AUX
- 9 CD
- 10 TUNER

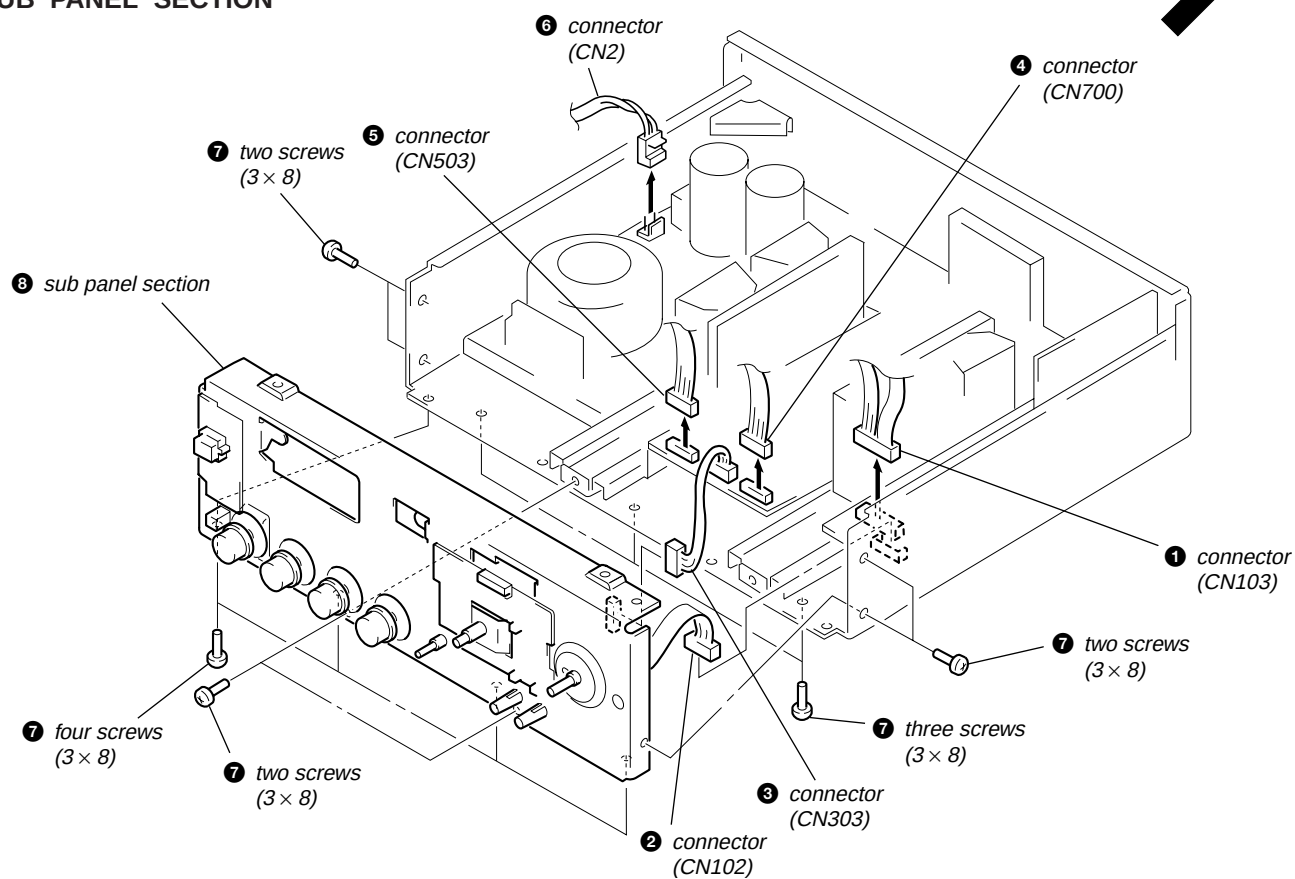
SECTION 2 DISASSEMBLY

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

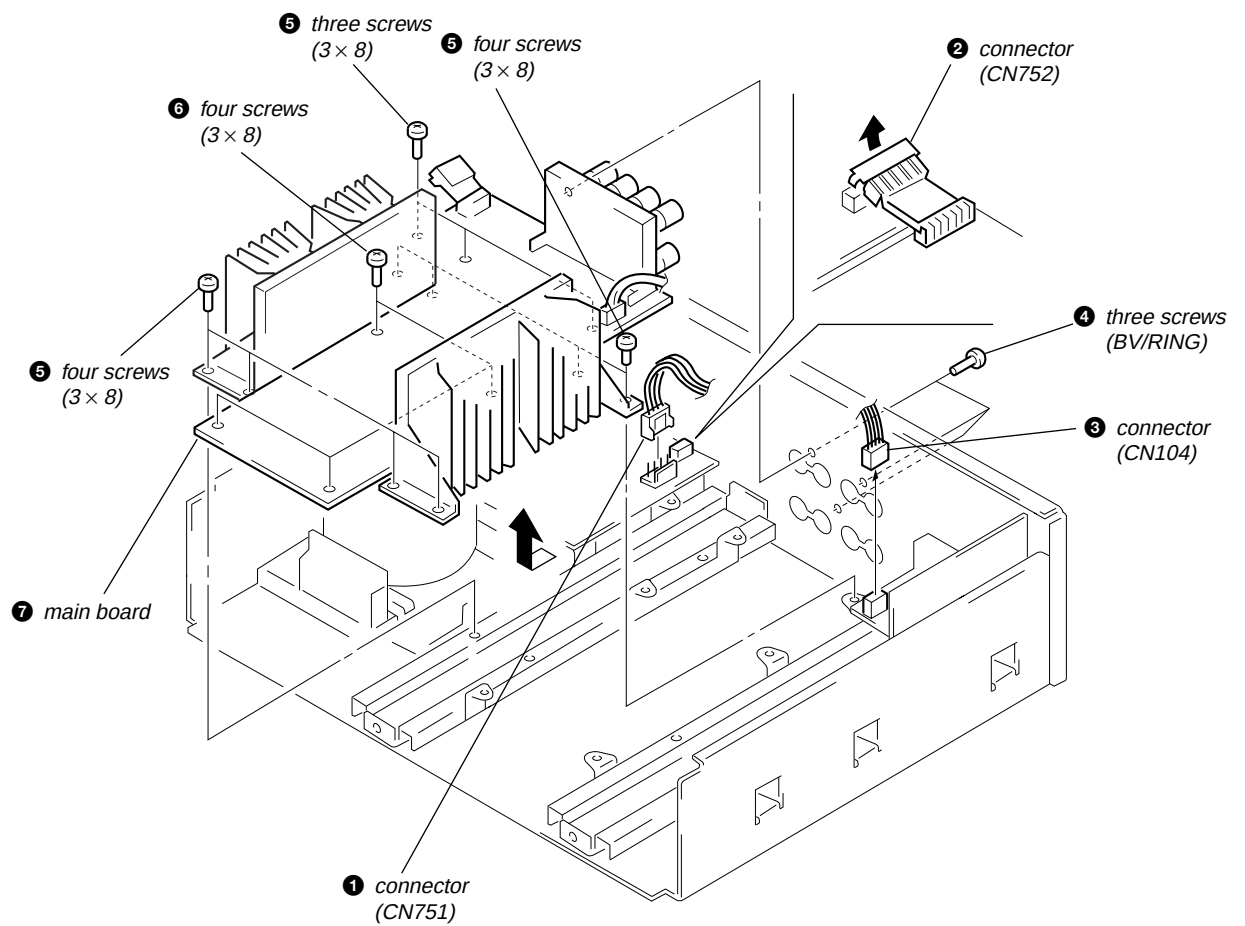
CASE, FRONT PANEL



SUB PANEL SECTION



MAIN BOARD



SECTION 3 ELECTRICAL ADJUSTMENTS

Bias Adjustment

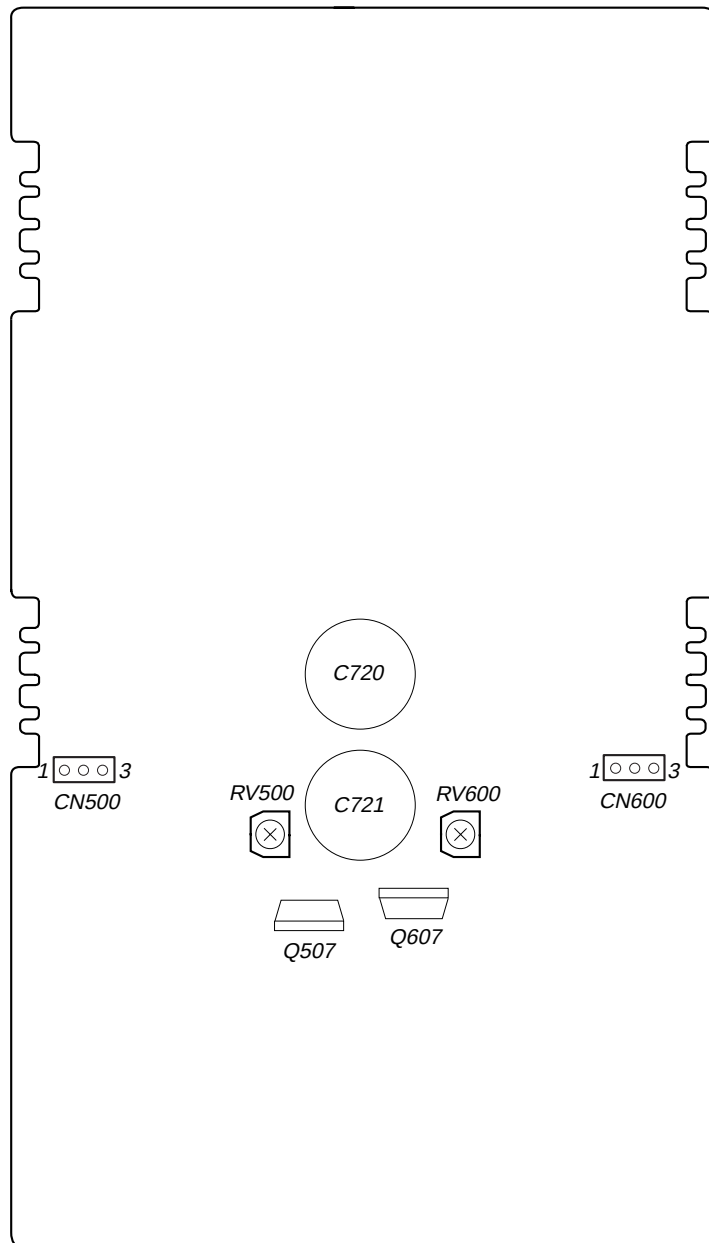
1. Rotate fully the bias adjusting semi-fixed resistors (RV500, RV600) to the MIN position (counterclockwise).
2. Connect a digital voltmeter to the CN500 and CN600.

	1 pin	3 pin
CN500	+	–
CN600	–	+

3. Set the slidack to 0 V, and press the  button (ON) on the set.
4. Raise gradually the slidack voltage up to the rated voltage (230 V).
5. At this time, confirm that the SP relay is turned on (it will click), and at the same time, the LED on the  button changes from red to green.
6. Adjust the RV500 and RV600 so that a reading of digital voltmeter is $10 \text{ mV} \pm 2 \text{ mV}$.
7. Return the slidack to 0 V, and press the  button (OFF) on the set.

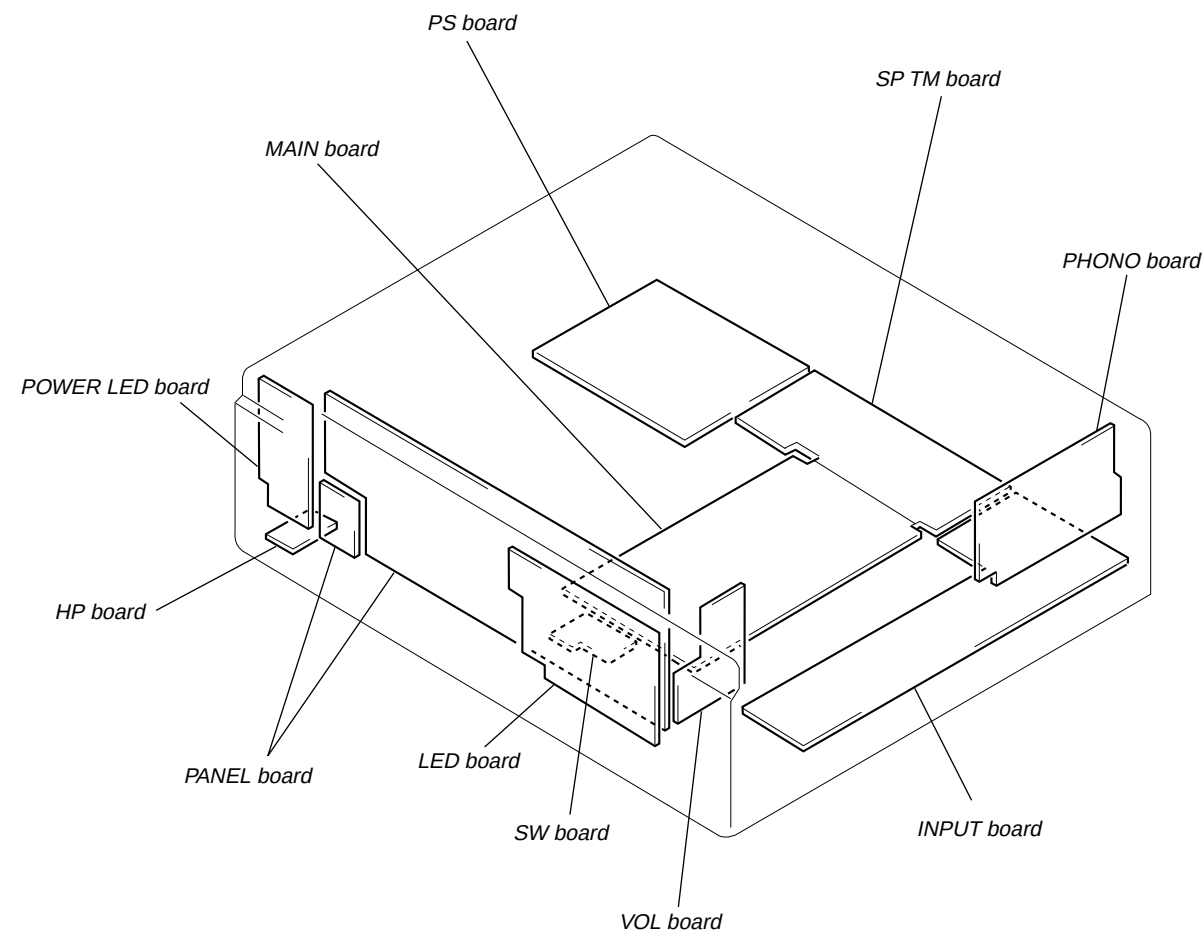
Adjustment Location:

MAIN Board (Component Side)



SECTION 4
DIAGRAMS

• Circuit Boards Location



4-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS
(In addition to this, the necessary note is printed in each block.)

Note on Schematic Diagram:

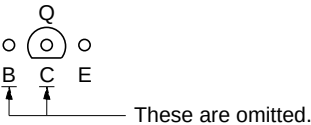
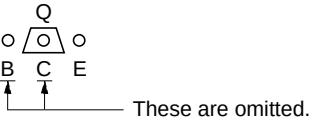
- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

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

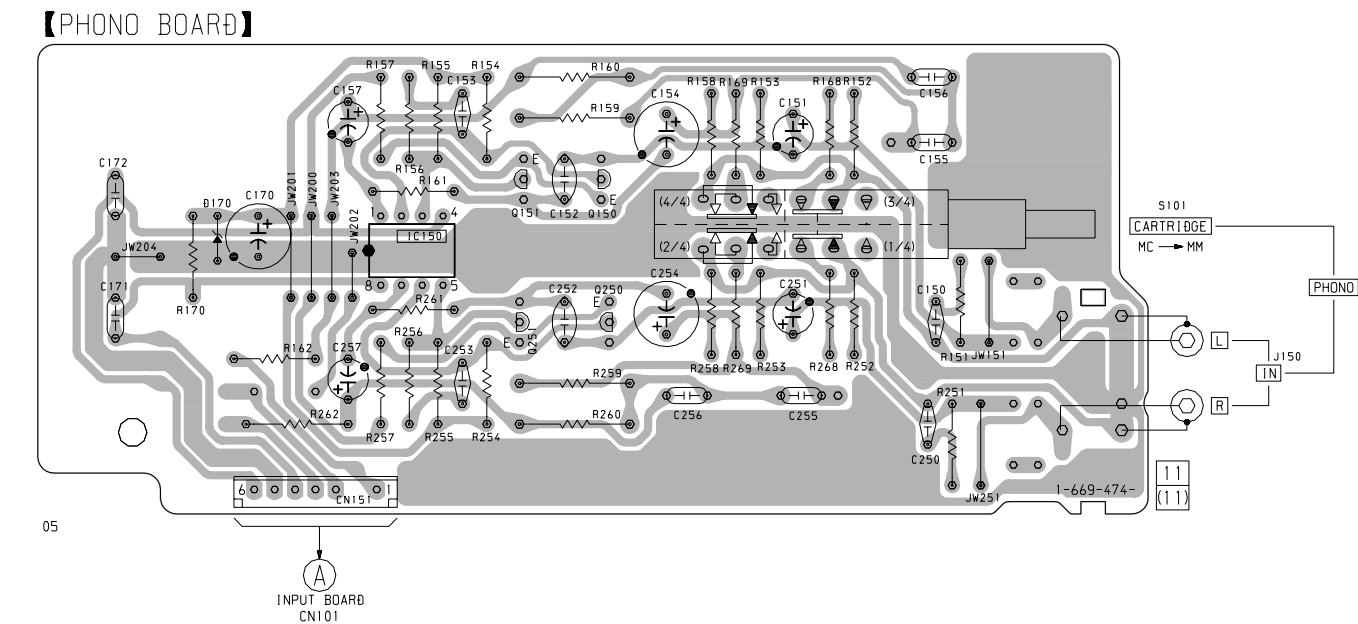
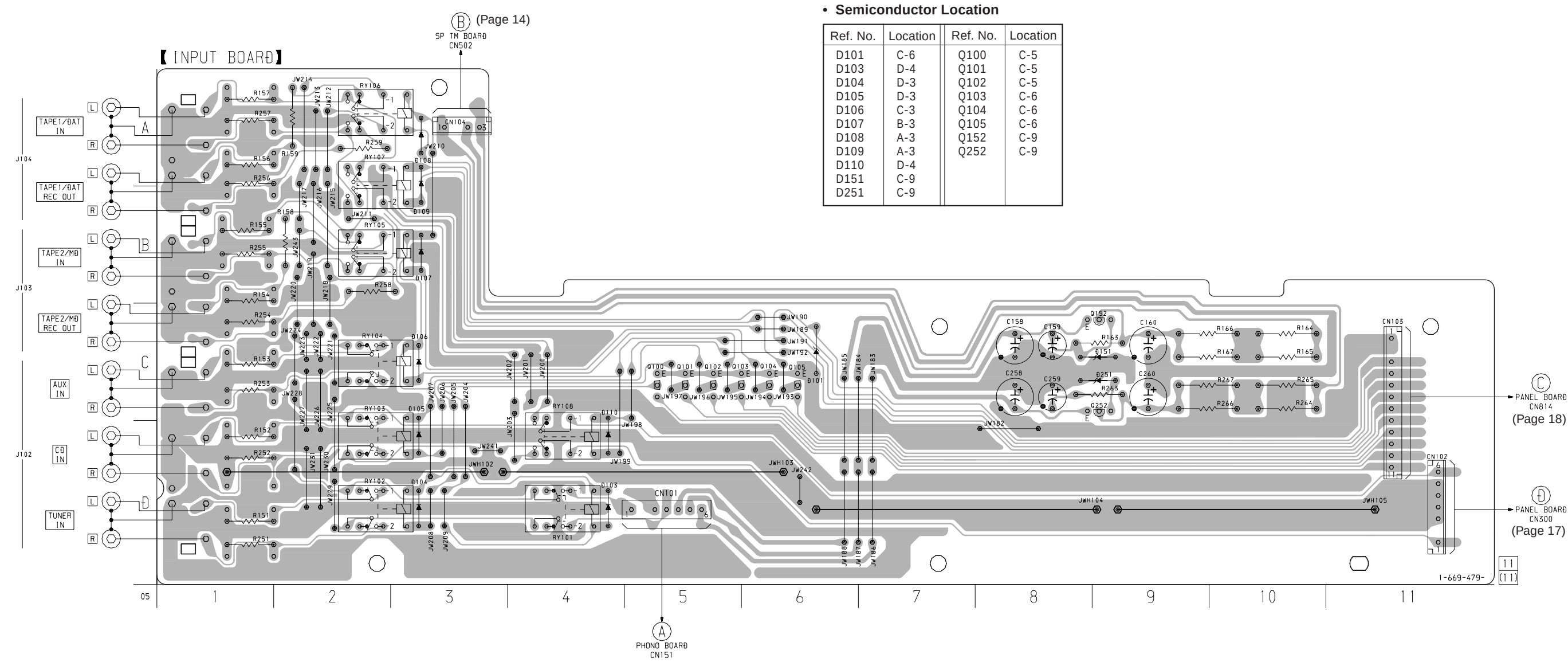
- : B+ Line.
- : B- Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark: POWER ON
- Voltages are taken with a VOM (Input impedance 10 M Ω).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 : TUNER

Note on Printed Wiring Boards:

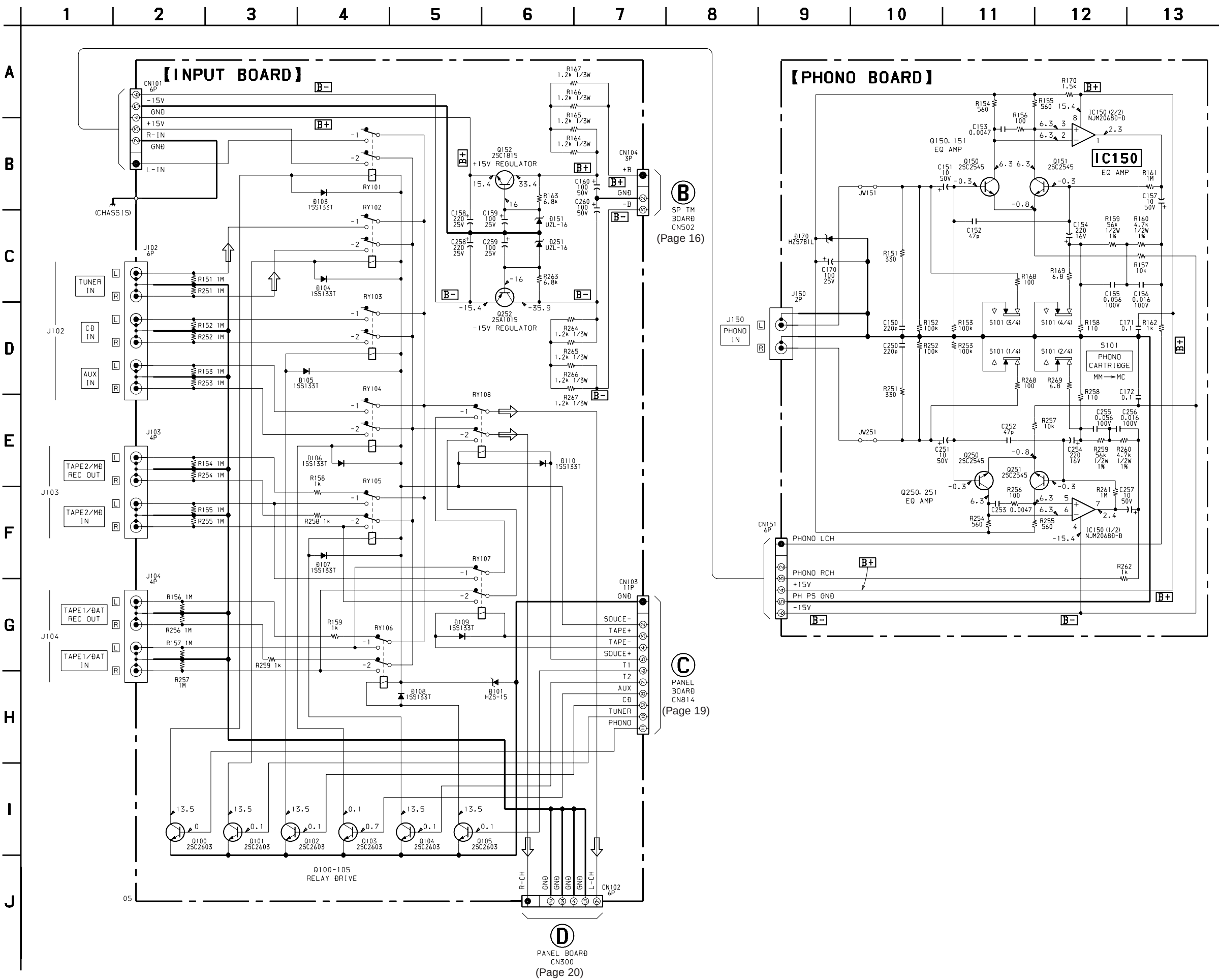
- : parts extracted from the component side.
- : Pattern from the side which enables seeing.
- Indication of transistor.



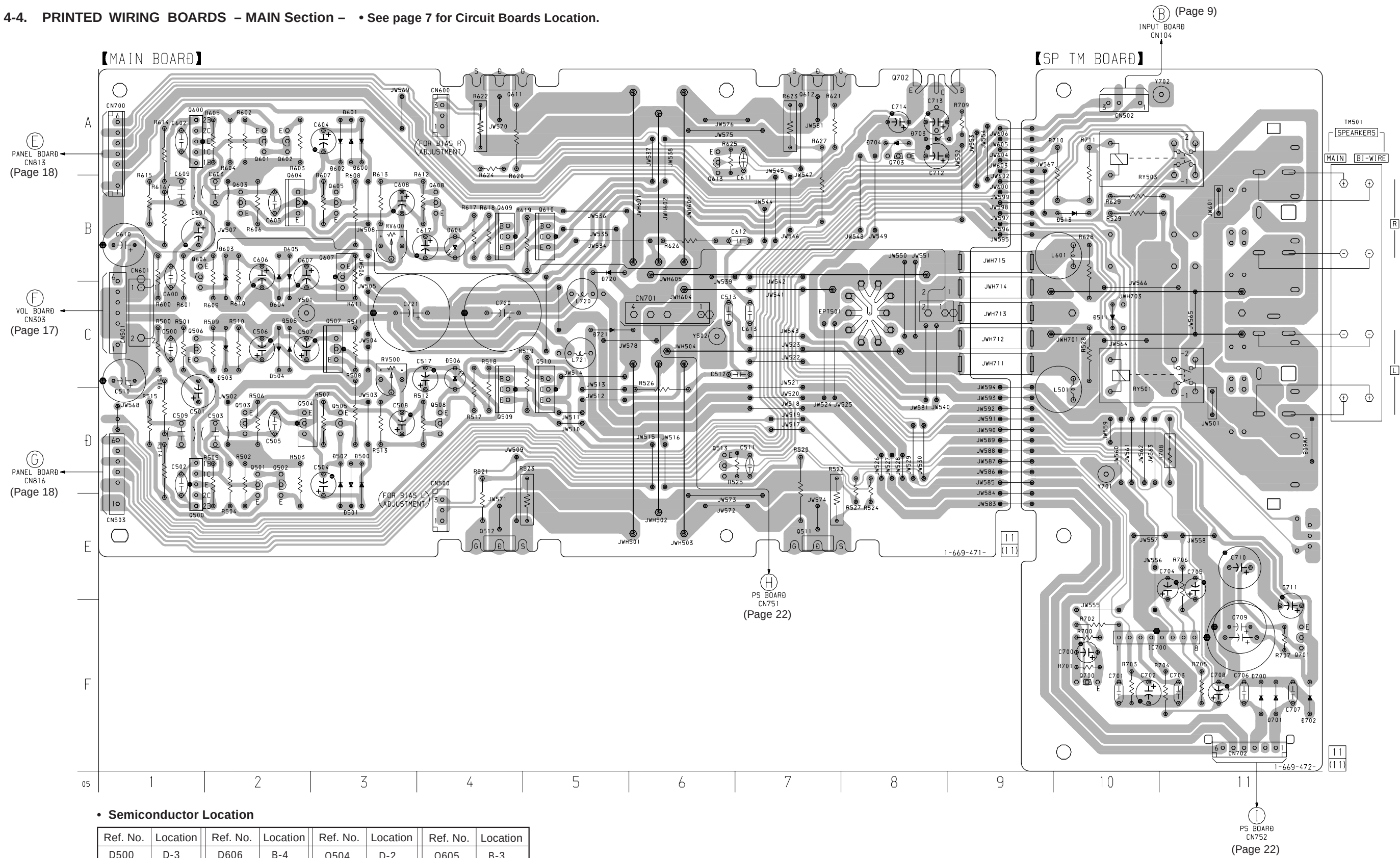
4-2. PRINTED WIRING BOARDS – INPUT Section – • See page 7 for circuit Boards Location.



4-3. SCHEMATIC DIAGRAM - INPUT Section -



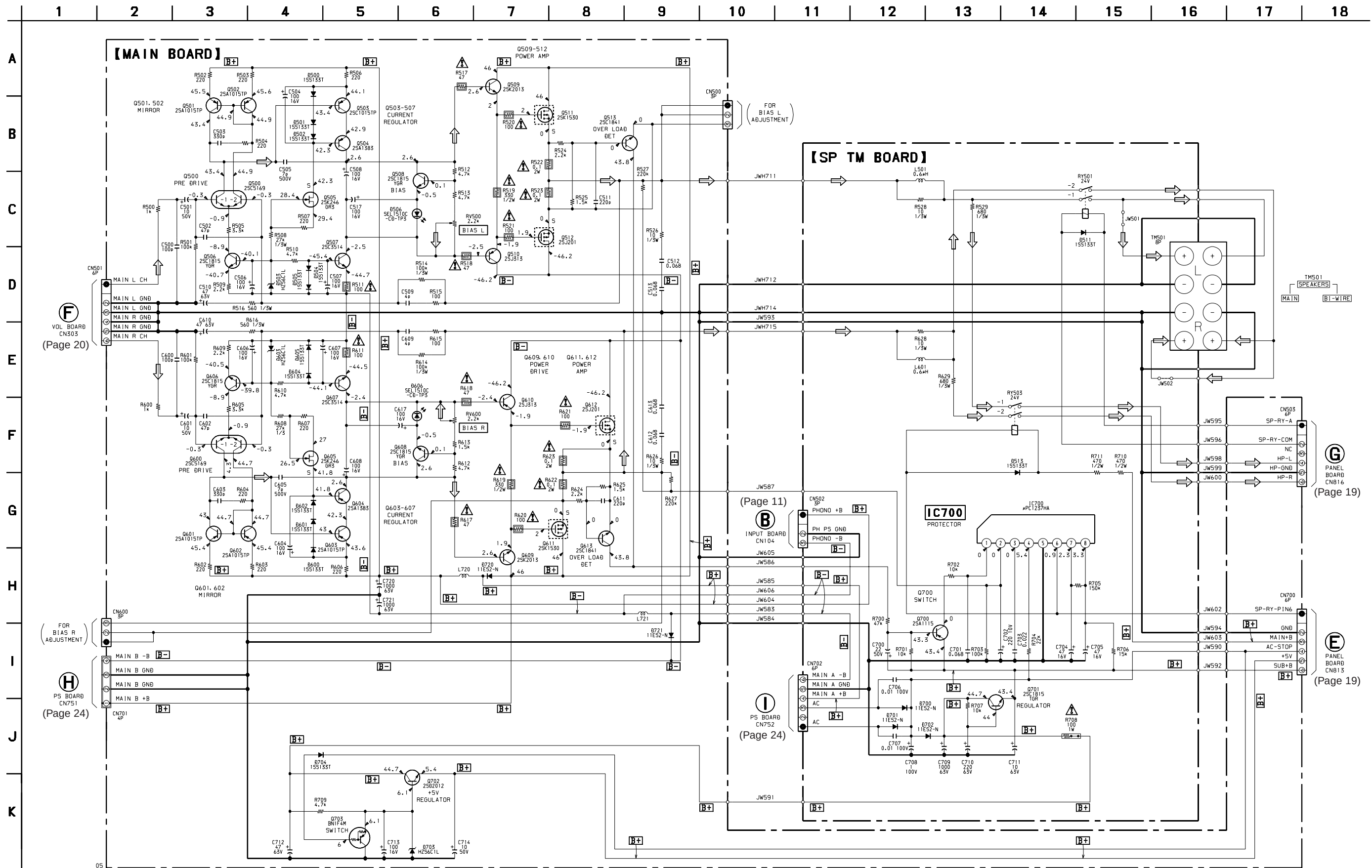
4-4. PRINTED WIRING BOARDS – MAIN Section – • See page 7 for Circuit Boards Location.



• Semiconductor Location

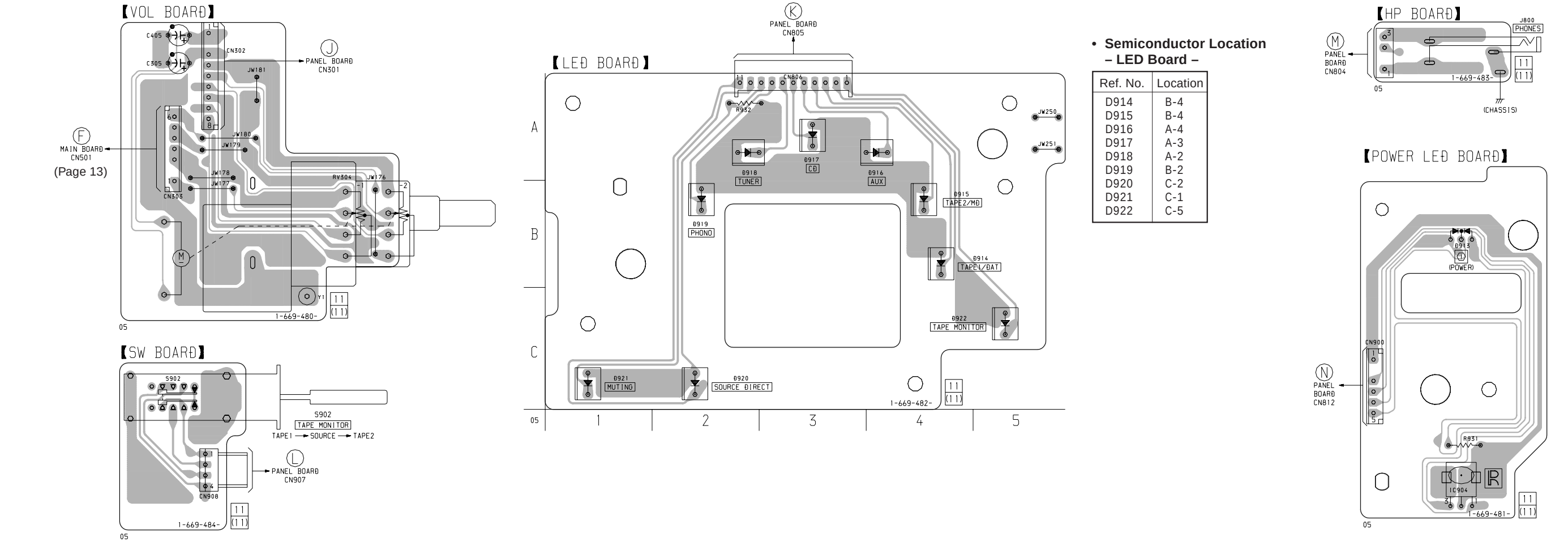
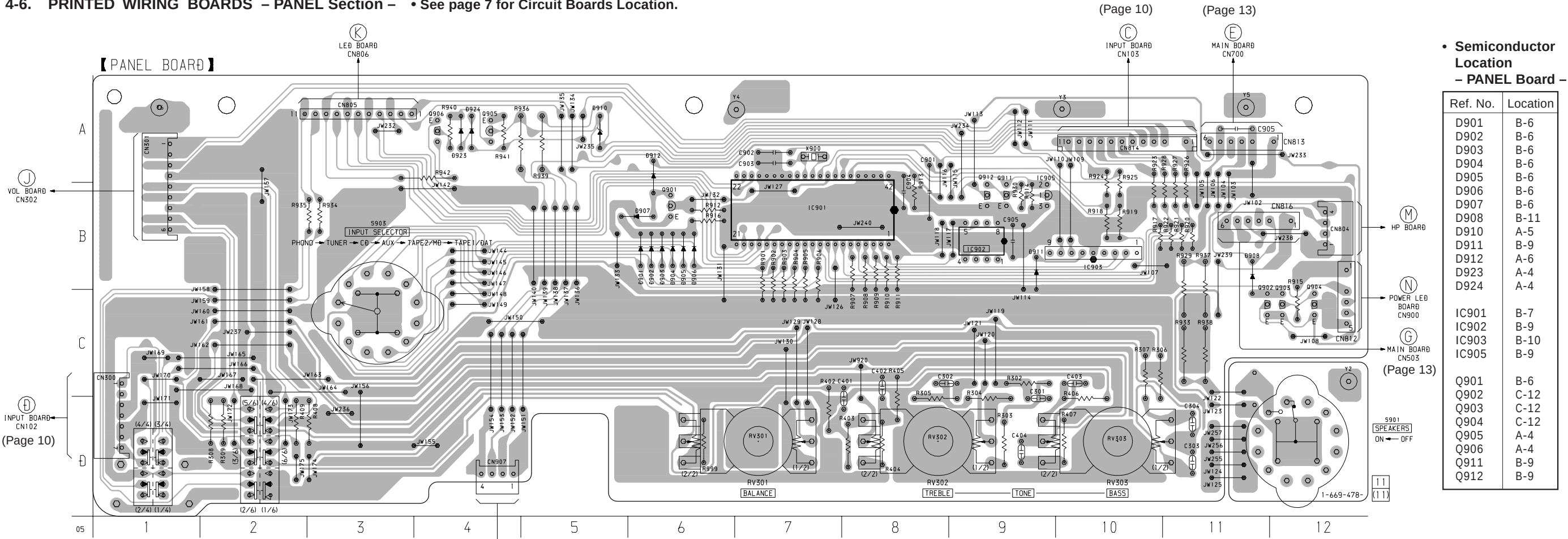
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D500	D-3	D606	B-4	Q504	D-2	Q605	B-3
D501	D-3	D700	F-11	Q505	D-3	Q606	B-1
D502	D-3	D701	F-11	Q506	C-1	Q607	B-3
D503	C-2	D702	F-11	Q507	C-3	Q608	B-4
D504	C-2	D703	A-8	Q508	D-4	Q609	B-4
D505	C-2	D704	A-8	Q509	D-4	Q610	B-5
D506	C-4	D720	B-5	Q510	C-5	Q611	A-4
D511	C-10	D721	C-5	Q511	E-7	Q612	A-7
D513	B-10			Q512	E-4	Q613	A-6
D600	A-3	IC700	F-10	Q513	D-6	Q700	F-10
D601	A-3			Q600	A-1	Q701	F-11
D602	A-3	Q500	D-1	Q601	A-2	Q702	A-8
D603	B-2	Q501	D-2	Q602	A-2	Q703	A-8
D604	B-2	Q502	D-2	Q603	B-2		
D605	B-2	Q503	D-2	Q604	B-2		

4-5. SCHEMATIC DIAGRAM – MAIN Section – • See page 25 for IC Block Diagram.

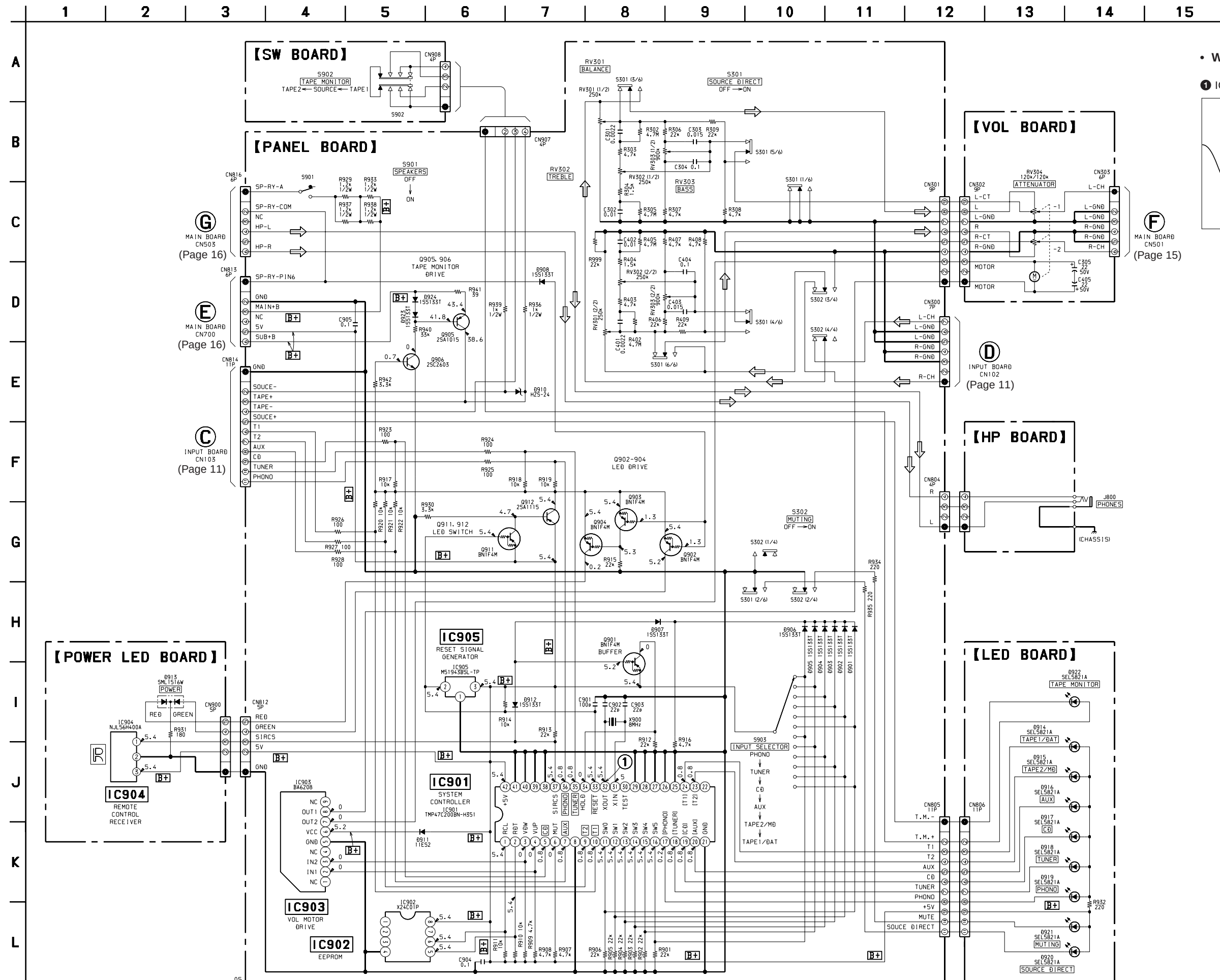


The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

4-6. PRINTED WIRING BOARDS – PANEL Section – • See page 7 for Circuit Boards Location.

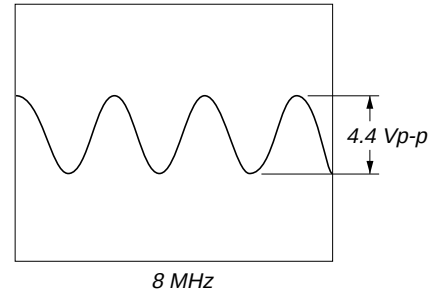


4-7. SCHEMATIC DIAGRAM – PANEL Section – • See page 25 for IC Block Diagram.



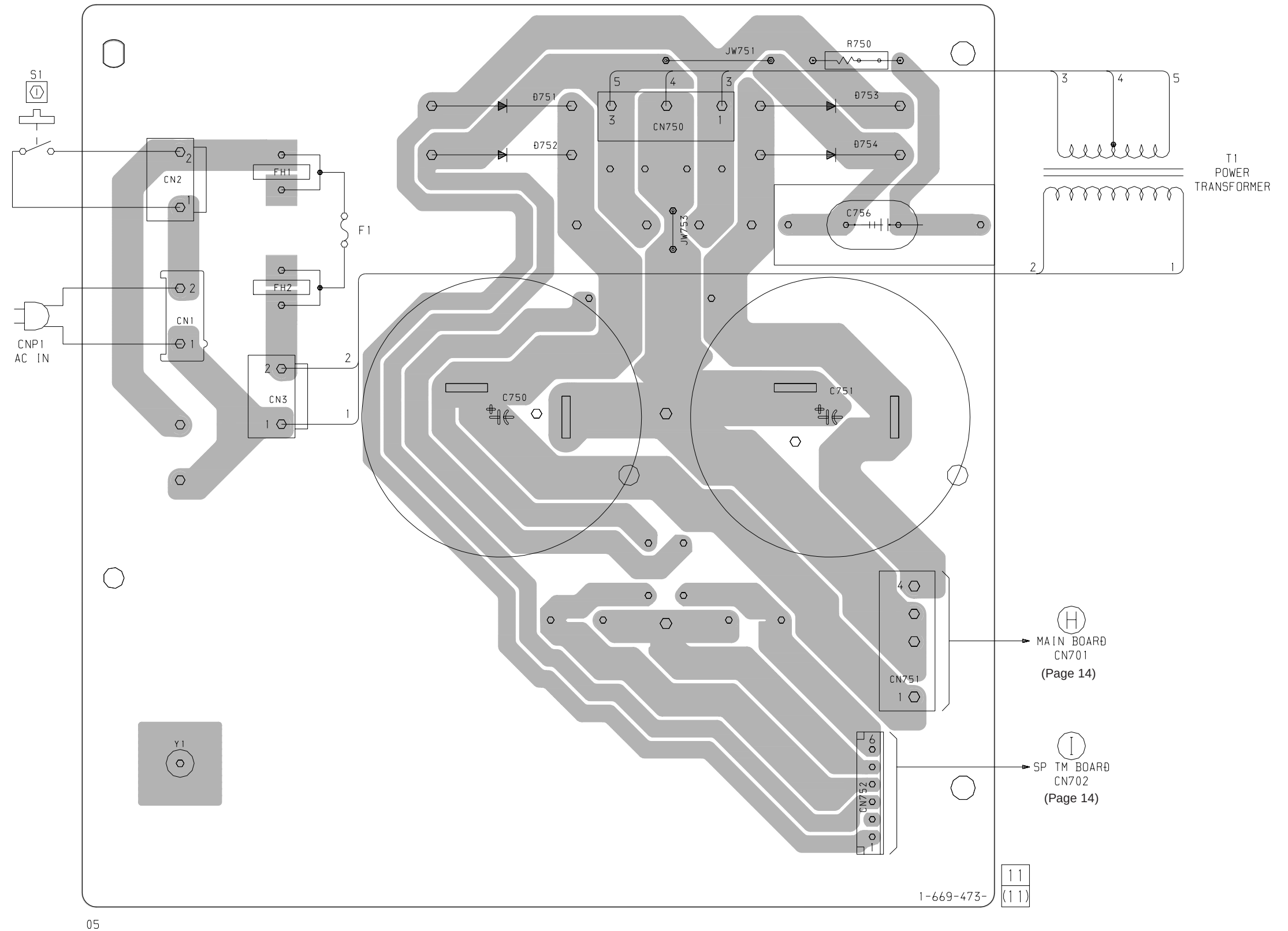
• Waveform

① IC901 ③② (XOUT)

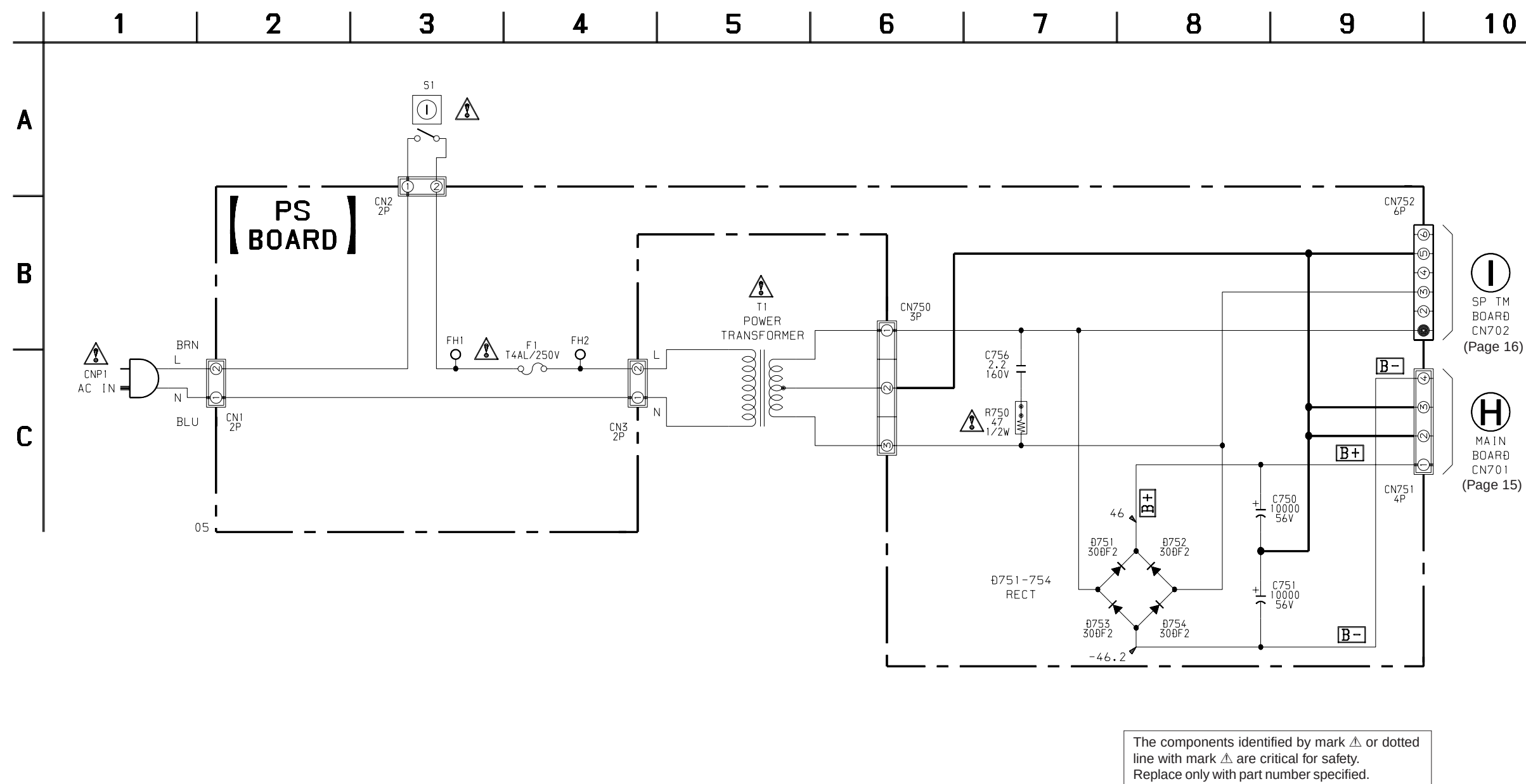


4-8. PRINTED WIRING BOARDS – POWER Section – • See page 7 for Circuit Boards Location.

【PS BOARD】

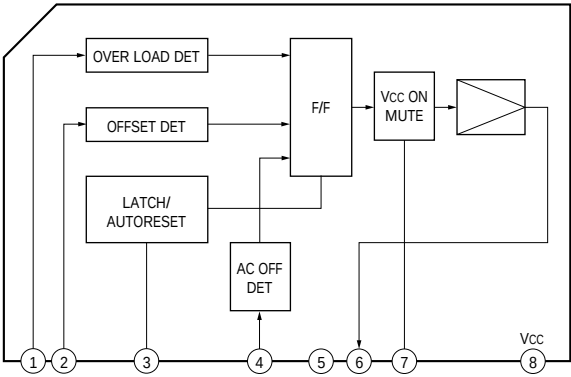


4-9. SCHEMATIC DIAGRAM – POWER Section –

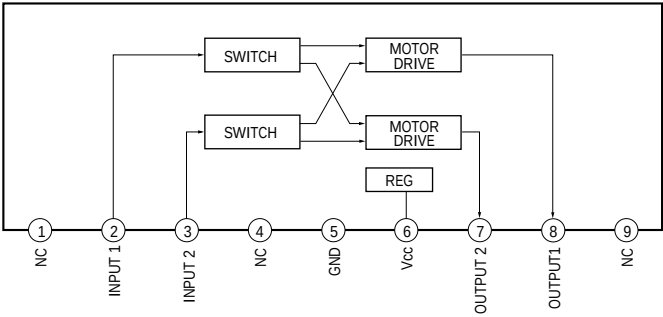


• IC Block Diagrams

IC700 μPC1237HA (SP TM BOARD)



IC903 BA6208 (PANEL BOARD)



4-10. IC PIN FUNCTION DESCRIPTION

• PANEL BOARD IC901 TMP47C200BN-H351 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Function
1	RCL	O	Serial clock signal output to the EEPROM (IC902)
2	RDT	I/O	Two-way data bus with the EEPROM (IC902)
3	VDW	O	Volume motor drive signal output to the BA6208 (IC903) (for volume down direction) “H” active
4	VUP	O	Volume motor drive signal output to the BA6208 (IC903) (for volume up direction) “H” active
5	CD	O	Function relay (for CD) drive signal output terminal “H”: relay on (CD on)
6	MUT	O	Muting control signal output terminal “H”: muting on Not used (pull up)
7	AUX	O	Function relay (for AUX) drive signal output terminal “H”: relay on (AUX on)
8	—	—	Not used (fixed at “L”)
9	T2	O	Function relay (for TAPE2/MD) drive signal output terminal “H”: relay on (TAPE2/MD on)
10	T1	O	Function relay (for TAPE1/DAT) drive signal output terminal “H”: relay on (TAPE1/DAT on)
11	SW0	I	Input selector switch (S903) input terminal “H”: TAPE1/DAT, “L”: other function
12	SW1	I	Input selector switch (S903) input terminal “H”: TAPE2/MD, “L”: other function
13	SW2	I	Input selector switch (S903) input terminal “H”: AUX, “L”: other function
14	SW3	I	Input selector switch (S903) input terminal “H”: CD, “L”: other function
15	SW4	I	Input selector switch (S903) input terminal “H”: TUNER, “L”: other function
16	SW5	I	Input selector switch (S903) input terminal “H”: PHONO, “L”: other function
17	PHONO	O	Function LED (PHONO) drive signal output terminal “L”: LED on
18	TUNER	O	Function LED (TUNER) drive signal output terminal “L”: LED on
19	CD	O	Function LED (CD) drive signal output terminal “L”: LED on
20	AUX	O	Function LED (AUX) drive signal output terminal “L”: LED on
21	GND	—	Ground terminal
22	—	—	Not used (open)
23	T2	O	Function LED (TAPE2/MD) drive signal output terminal “L”: LED on
24	T1	O	Function LED (TAPE1/DAT) drive signal output terminal “L”: LED on
25 to 29	—	—	Not used (fixed at “L”)
30	TEST	—	Not used (open)
31	XIN	I	System clock input terminal (8 MHz)
32	XOUT	O	System clock output terminal (8 MHz)
33	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator (IC905) “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
34	HOLD	I	Cancellation of hold mode signal “H”: start
35	TUNER	O	Function relay (for TUNER) drive signal output terminal “H”: relay on (TUNER on)
36	PHONO	O	Function relay (for PHONO) drive signal output terminal “H”: relay on (PHONO on)
37	SIRCS	I	Remote control signal input from the remote control receiver (IC904)
38 to 41	—	—	Not used (fixed at “L”)
42	+5V	—	Power supply terminal (+5V)

SECTION 5

EXPLODED VIEWS

NOTE:

- XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)

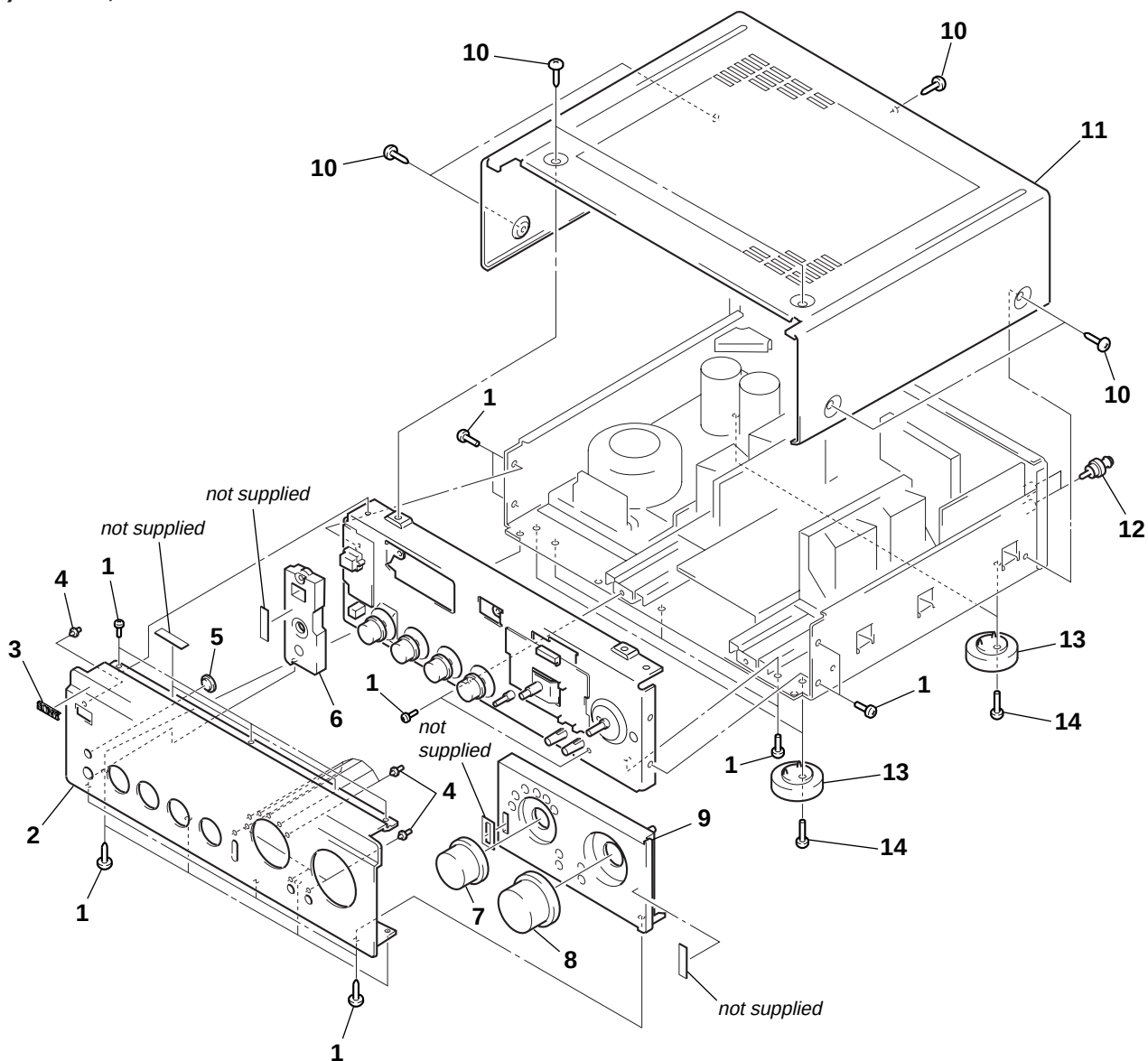
↑
Parts Color

↑
Cabinet's Color

- 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.
- Accessories and packing materials are given in the last of the electrical parts list.

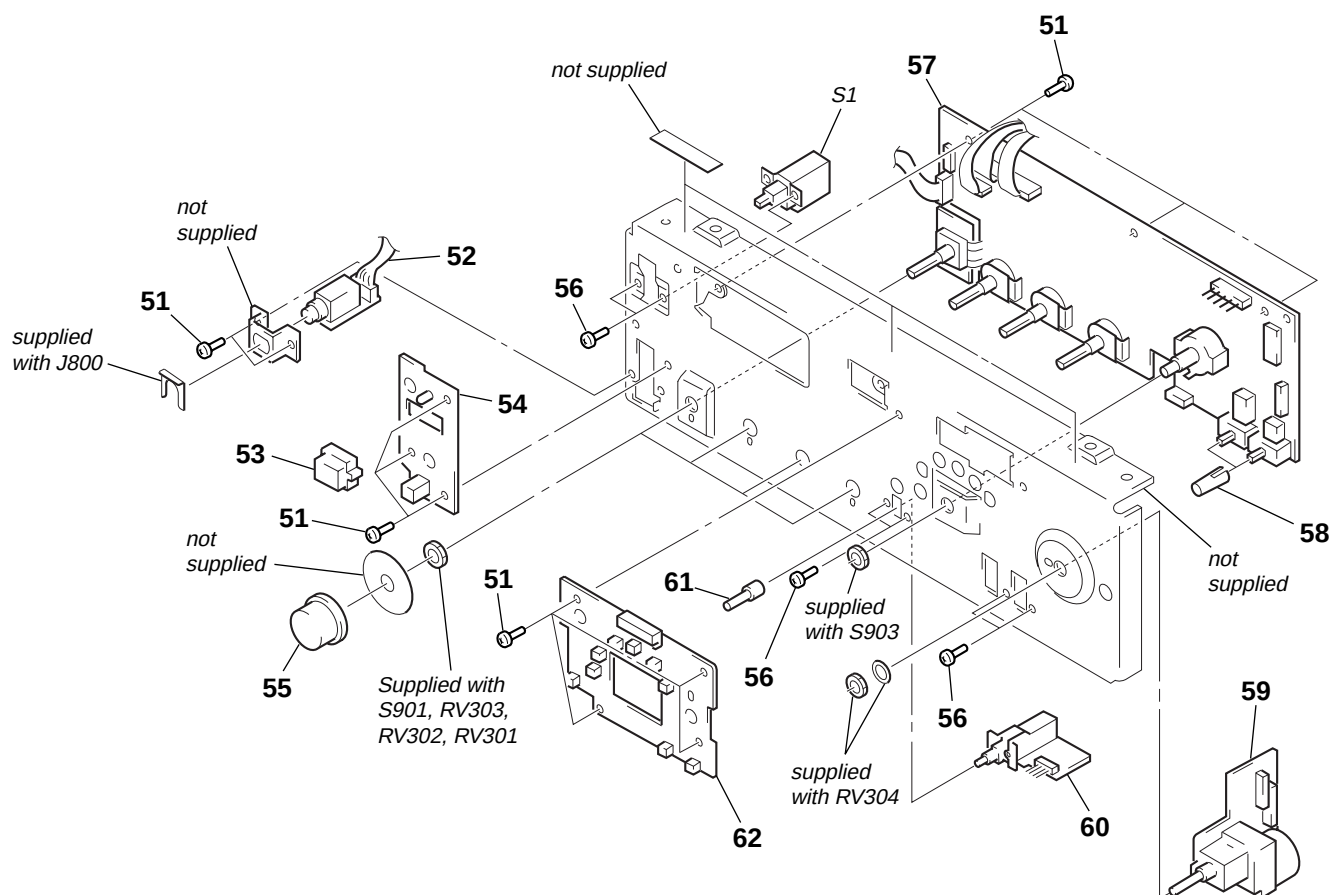
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

(1) CASE, FRONT PANEL SECTION-1



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-967-961-01	SCREW (3X8)		8	4-999-432-01	KNOB (VOL) (BLACK)	
2	4-999-428-01	PANEL, FRONT (BLACK)		8	4-999-432-11	KNOB (VOL) (GOLD)	
2	4-999-428-11	PANEL, FRONT (GOLD)		9	4-999-430-01	BASE (R), PANEL (BLACK)	
3	4-942-568-41	EMBLEM (NO.5), SONY (BLACK)		9	4-999-430-11	BASE (R), PANEL (GOLD)	
3	4-942-568-51	EMBLEM (NO.5), SONY (GOLD)		10	4-210-291-01	SCREW (CASE 3 TP2) (BLACK)	
* 4	X-4950-462-1	LENS ASSY, LED		10	4-210-291-11	SCREW (CASE 3 TP2) (GOLD)	
5	4-975-105-01	WINDOW, RAY CATCHER (BLACK)		* 11	4-999-439-01	CASE (413235) (BLACK)	
5	4-975-105-31	WINDOW, RAY CATCHER (GOLD)		* 11	4-999-439-21	CASE (413235) (GOLD)	
6	4-999-429-01	BASE (L), PANEL (BLACK)		12	1-506-113-00	SHORT PLUG	
6	4-999-429-11	BASE (L), PANEL (GOLD)		13	X-4949-759-1	FOOT ASSY	
7	4-999-433-01	KNOB (SEL) (BLACK)		14	7-685-885-09	SCREW +BVTT 4X16 (S)	
7	4-999-433-11	KNOB (SEL) (GOLD)					

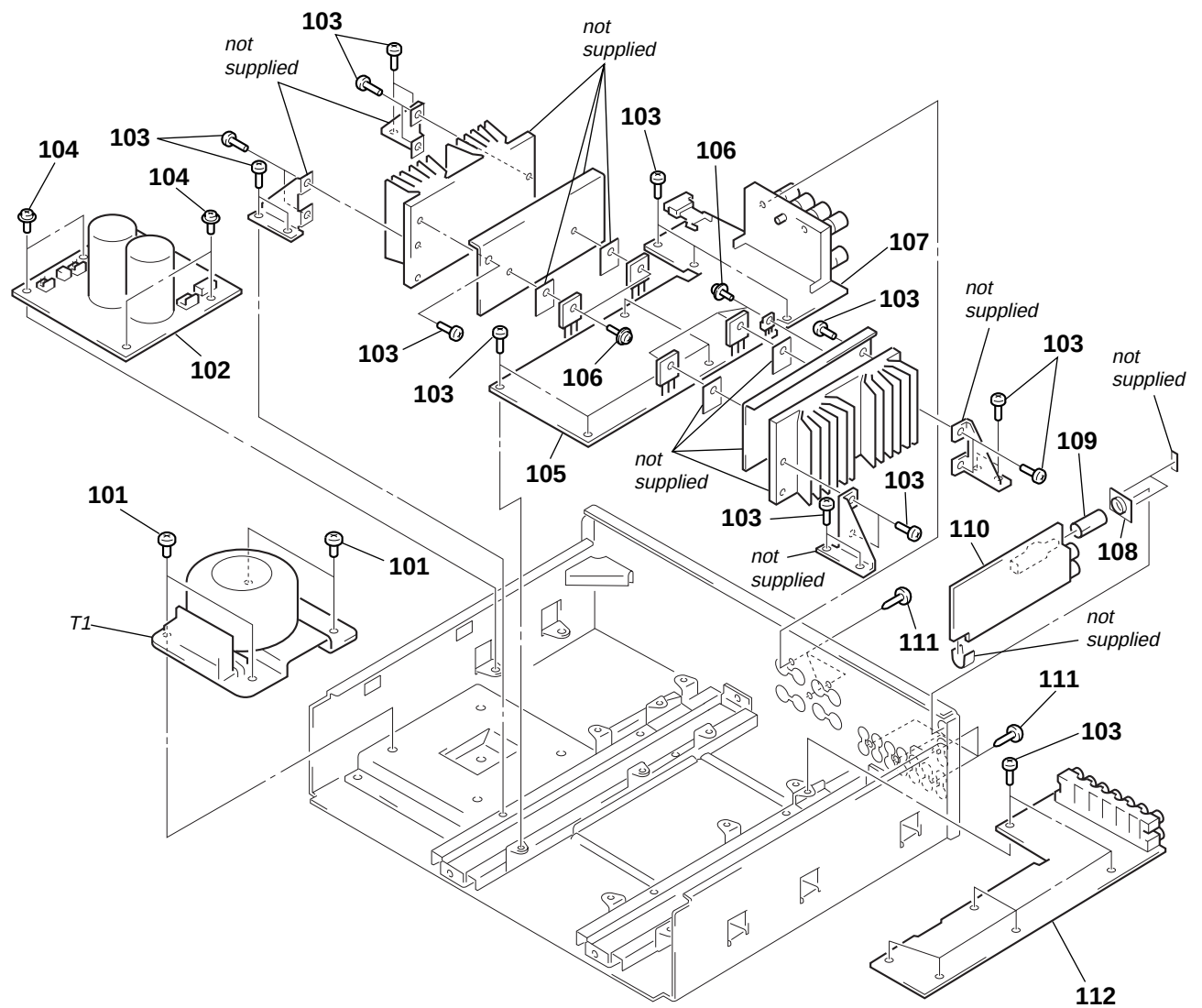
(2) FRONT PANEL SECTION-2



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-967-961-01	SCREW (3X8)		* 57	A-4407-634-A	PANEL BOARD, COMPLETE	
* 52	1-669-483-11	HP BOARD		58	4-970-146-01	BUTTON (BLACK)	
53	3-024-055-01	BUTTON (POWER) (①) (BLACK)		58	4-970-146-21	BUTTON (GOLD)	
53	3-024-055-11	BUTTON (POWER) (①) (GOLD)		* 59	1-669-480-11	VOL BOARD	
* 54	1-669-481-11	POWER LED BOARD		* 60	1-669-484-11	SW BOARD	
55	X-4949-758-1	KNOB (BAL) ASSY (BLACK)		61	4-976-796-01	KNOB (A), LEVER	
55	X-4949-761-1	KNOB (BAL) ASSY (GOLD)		* 62	1-669-482-11	LED BOARD	
56	7-685-751-09	SCREW +PTT 3X6 (S)		$\triangle$ S1	1-554-920-11	SWITCH, PUSH (AC POWER) (1KEY)	

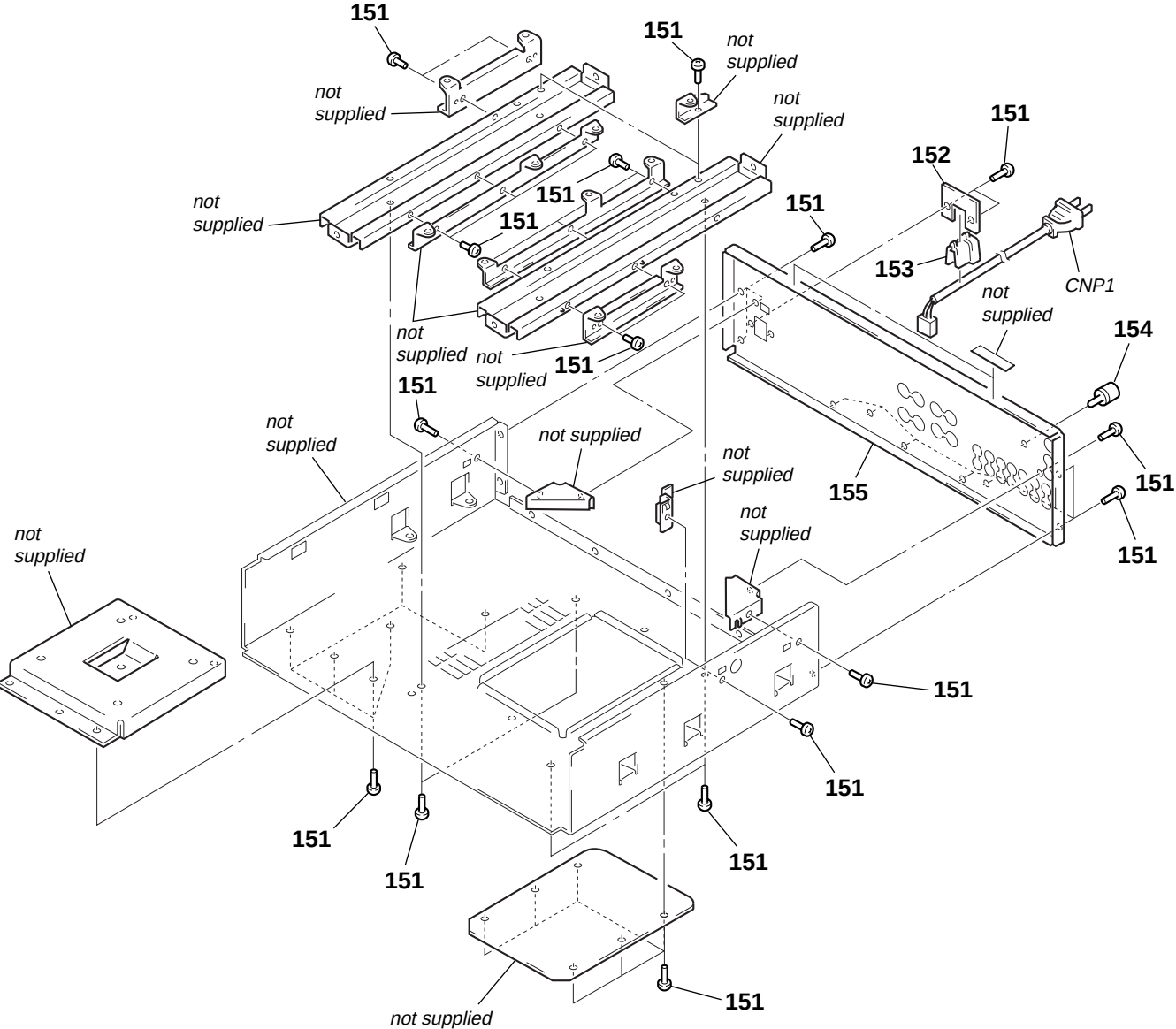
(3) CHASSIS SECTION-1



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	4-967-960-01	SCREW (4X8)		108	4-970-145-01	ESCUTCHEON (P)	
* 102	1-669-473-11	PS BOARD		109	4-970-146-01	BUTTON (BLCAK)	
103	4-967-961-01	SCREW (3X8)		* 110	A-4407-672-A	PHONO BOARD, COMPLETE	
104	4-211-985-01	SCREW (3X8), PC BOARD FITTING		111	3-704-515-41	SCREW (BV/RING)	
* 105	A-4407-669-A	MAIN BOARD, COMPLETE		* 112	A-4407-635-A	INPUT BOARD, COMPLETE	
106	3-905-609-21	SCREW (TRANSISTOR)					
* 107	A-4407-670-A	SP TM BOARD, COMPLETE		Δ T1	1-431-827-11	TRANSFORMER, POWER	

(4) CHASSIS SECTION-2



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	Ref. No.	Part No.	Description	Remark
151	4-967-961-01	SCREW (3X8)		154	4-947-010-01	SCREW, FEEDER FIXED	
* 152	4-923-873-01	BRACKET, CORD STOPPER		* 155	4-999-426-01	PANEL, BACK	
* 153	3-703-244-00	BUSHING (2104), CORD		▲ CNP1	1-777-185-11	CORD, POWER	

SECTION 6 ELECTRICAL PARTS LIST

HP

INPUT

NOTE:

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

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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	1-669-483-11	HP BOARD *****		Q101	8-729-620-05	TRANSISTOR 2SC2603-EF	
		< JACK >		Q102	8-729-620-05	TRANSISTOR 2SC2603-EF	
J800	1-770-307-11	JACK (LARGE TYPE) (PHONES)		Q103	8-729-620-05	TRANSISTOR 2SC2603-EF	
*****				Q104	8-729-620-05	TRANSISTOR 2SC2603-EF	
*	A-4407-635-A	INPUT BOARD, COMPLETE *****		Q105	8-729-620-05	TRANSISTOR 2SC2603-EF	
		< CAPACITOR >		Q152	8-729-119-78	TRANSISTOR 2SC403SP-51	
C158	1-126-024-11	ELECT 220uF 20% 25V		Q252	8-729-201-53	TRANSISTOR 2SA1015-GR	
C159	1-126-023-11	ELECT 100uF 20% 25V				< RESISTOR >	
C160	1-126-052-11	ELECT 100uF 20% 50V		R151	1-259-239-11	CARBON 1M 5% 1/4W	
C258	1-126-024-11	ELECT 220uF 20% 25V		R152	1-259-239-11	CARBON 1M 5% 1/4W	
C259	1-126-023-11	ELECT 100uF 20% 25V		R153	1-259-239-11	CARBON 1M 5% 1/4W	
C260	1-126-052-11	ELECT 100uF 20% 50V		R154	1-259-239-11	CARBON 1M 5% 1/4W	
		< CONNECTOR >		R155	1-259-239-11	CARBON 1M 5% 1/4W	
CN102	1-691-768-11	PLUG (MICRO CONNECTOR) 6P		R156	1-259-239-11	CARBON 1M 5% 1/4W	
CN103	1-691-773-11	PLUG (MICRO CONNECTOR) 11P		R157	1-259-239-11	CARBON 1M 5% 1/4W	
CN104	1-691-765-11	PLUG (MICRO CONNECTOR) 3P		R158	1-259-167-21	CARBON 1K 5% 1/4W	
		< DIODE >		R159	1-259-167-21	CARBON 1K 5% 1/4W	
D101	8-719-986-34	DIODE HZS15-1LTA		R163	1-259-187-11	CARBON 6.8K 5% 1/4W	
D103	8-719-911-19	DIODE 1SS119		R164	1-249-212-11	CARBON 1.2K 5% 1/3W	
D104	8-719-911-19	DIODE 1SS119		R165	1-249-212-11	CARBON 1.2K 5% 1/3W	
D105	8-719-911-19	DIODE 1SS119		R166	1-249-212-11	CARBON 1.2K 5% 1/3W	
D106	8-719-911-19	DIODE 1SS119		R167	1-249-212-11	CARBON 1.2K 5% 1/3W	
				R251	1-259-239-11	CARBON 1M 5% 1/4W	
D107	8-719-911-19	DIODE 1SS119		R252	1-259-239-11	CARBON 1M 5% 1/4W	
D108	8-719-911-19	DIODE 1SS119		R253	1-259-239-11	CARBON 1M 5% 1/4W	
D109	8-719-911-19	DIODE 1SS119		R254	1-259-239-11	CARBON 1M 5% 1/4W	
D110	8-719-911-19	DIODE 1SS119		R255	1-259-239-11	CARBON 1M 5% 1/4W	
D151	8-719-986-38	DIODE HZS16-1LTA		R256	1-259-239-11	CARBON 1M 5% 1/4W	
D251	8-719-986-38	DIODE HZS16-1LTA		R257	1-259-239-11	CARBON 1M 5% 1/4W	
		< JACK >		R258	1-259-167-21	CARBON 1K 5% 1/4W	
J102	1-778-517-11	JACK, PIN 6P (TUNER IN, CD IN, AUX IN)		R259	1-259-167-21	CARBON 1K 5% 1/4W	
J103	1-784-934-21	JACK, PIN 4P (TAPE2/MD REC OUT, IN)		R263	1-259-187-11	CARBON 6.8K 5% 1/4W	
J104	1-784-934-21	JACK, PIN 4P (TAPE1/DAT REC OUT, IN)		R264	1-249-212-11	CARBON 1.2K 5% 1/3W	
		< TRANSISTOR >		R265	1-249-212-11	CARBON 1.2K 5% 1/3W	
Q100	8-729-620-05	TRANSISTOR 2SC2603-EF		R266	1-249-212-11	CARBON 1.2K 5% 1/3W	
				R267	1-249-212-11	CARBON 1.2K 5% 1/3W	
						< RELAY >	
				RY101	1-515-614-11	RELAY	
				RY102	1-515-614-11	RELAY	
				RY103	1-515-614-11	RELAY	
				RY104	1-515-614-11	RELAY	
				RY105	1-515-614-11	RELAY	

INPUT	LED	MAIN
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Ref. No.	Part No.	Description	Remark		
RY106	1-515-614-11	RELAY			
RY107	1-515-614-11	RELAY			
RY108	1-515-614-11	RELAY			

*	1-669-482-11	LED BOARD			

< CONNECTOR >					
* CN806	1-563-381-11	SOCKET, CONNECTOR 11P			
< DIODE >					
D914	8-719-046-38	LED	SEL5821A-TH8F (TAPE1/DAT)		
D915	8-719-046-38	LED	SEL5821A-TH8F (TAPE2/MD)		
D916	8-719-046-38	LED	SEL5821A-TH8F (AUX)		
D917	8-719-046-38	LED	SEL5821A-TH8F (CD)		
D918	8-719-046-38	LED	SEL5821A-TH8F (TUNER)		
D919	8-719-046-38	LED	SEL5821A-TH8F (PHONO)		
D920	8-719-046-38	LED	SEL5821A-TH8F (SOURCE DIRECT)		
D921	8-719-046-38	LED	SEL5821A-TH8F (MUTING)		
D922	8-719-046-38	LED	SEL5821A-TH8F (TAPE MONITOR)		
< RESISTOR >					
R932	1-249-409-11	CARBON	220	5%	1/4W

*	A-4407-669-A	MAIN BOARD, COMPLETE			

< CAPACITOR >					
C500	1-102-973-00	CERAMIC	100PF	5%	50V
C501	1-128-197-11	ELECT	10uF	20%	50V
C502	1-101-880-00	CERAMIC	47PF	5%	50V
C503	1-125-852-11	FILM	330PF	5%	50V
C504	1-126-023-11	ELECT	100uF	20%	16V
C505	1-107-587-11	CERAMIC	7PF	0.5PF	500V
C506	1-126-023-11	ELECT	100uF	20%	16V
C507	1-126-023-11	ELECT	100uF	20%	16V
C508	1-126-023-11	ELECT	100uF	20%	16V
C509	1-125-842-11	FILM	4PF	10%	50V
C510	1-128-200-11	ELECT	47uF	20%	63V
C511	1-102-978-00	CERAMIC	220PF	5%	50V
C512	1-136-163-00	FILM	0.068uF	5%	50V
C513	1-136-163-00	FILM	0.068uF	5%	50V
C517	1-126-023-11	ELECT	100uF	20%	16V
C600	1-102-973-00	CERAMIC	100PF	5%	50V
C601	1-128-197-11	ELECT	10uF	20%	50V
C602	1-101-880-00	CERAMIC	47PF	5%	50V
C603	1-125-852-11	FILM	330PF	5%	50V
C604	1-126-023-11	ELECT	100uF	20%	16V
C605	1-107-587-11	CERAMIC	7PF	0.5PF	500V
C606	1-126-023-11	ELECT	100uF	20%	16V
C607	1-126-023-11	ELECT	100uF	20%	16V
C608	1-126-023-11	ELECT	100uF	20%	16V
C609	1-125-842-11	FILM	4PF	10%	50V
C610	1-128-200-11	ELECT	47uF	20%	63V
C611	1-102-978-00	CERAMIC	220PF	5%	50V
C612	1-136-163-00	FILM	0.068uF	5%	50V

Ref. No.	Part No.	Description	Remark		
C613	1-136-163-00	FILM	0.068uF	5%	50V
C617	1-126-023-11	ELECT	100uF	20%	16V
C712	1-128-552-51	ELECT	47uF	20%	63V
C713	1-126-933-11	ELECT	100uF	20%	16V
C714	1-126-964-11	ELECT	10uF	20%	50V
C720	1-110-397-11	ELECT	1000uF	20%	63V
C721	1-110-397-11	ELECT	1000uF	20%	63V
< CONNECTOR >					
CN500	1-564-506-11	PLUG, CONNECTOR 3P			
CN503	1-564-510-11	PLUG (MICRO CONNECTOR) 6P			
CN600	1-564-506-11	PLUG, CONNECTOR 3P			
CN700	1-691-768-11	PLUG (MICRO CONNECTOR) 6P			
< DIODE >					
D500	8-719-911-19	DIODE	1SS119		
D501	8-719-911-19	DIODE	1SS119		
D502	8-719-911-19	DIODE	1SS119		
D503	8-719-933-39	DIODE	HZS6C1L		
D504	8-719-911-19	DIODE	1SS119		
D505	8-719-911-19	DIODE	1SS119		
D506	8-719-310-61	LED	SEL1510C-D		
D600	8-719-911-19	DIODE	1SS119		
D601	8-719-911-19	DIODE	1SS119		
D602	8-719-911-19	DIODE	1SS119		
D603	8-719-933-39	DIODE	HZS6C1L		
D604	8-719-911-19	DIODE	1SS119		
D605	8-719-911-19	DIODE	1SS119		
D606	8-719-310-61	LED	SEL1510C-D		
D703	8-719-933-39	DIODE	HZS6C1L		
D704	8-719-911-19	DIODE	1SS119		
D720	8-719-024-99	DIODE	11ES2-NTA2B		
D721	8-719-024-99	DIODE	11ES2-NTA2B		
< BRIDGE >					
JWH711	4-999-918-01	BRIDGE (PC-BOARD)			
JWH712	4-999-918-01	BRIDGE (PC-BOARD)			
JWH713	4-999-918-01	BRIDGE (PC-BOARD)			
JWH714	4-999-918-01	BRIDGE (PC-BOARD)			
JWH715	4-999-918-01	BRIDGE (PC-BOARD)			
< COIL >					
L720	1-428-203-11	COIL, AIR-CORE			
L721	1-428-203-11	COIL, AIR-CORE			
< TRANSISTOR >					
Q500	8-729-045-15	TRANSISTOR	2SC5169-FG		
Q501	8-729-201-53	TRANSISTOR	2SA1015-GR		
Q502	8-729-201-53	TRANSISTOR	2SA1015-GR		
Q503	8-729-201-53	TRANSISTOR	2SA1015-GR		
Q504	8-729-104-91	TRANSISTOR	2SA1383		
Q505	8-729-202-67	FET	2SK246-GR3		
Q506	8-729-119-78	TRANSISTOR	2SC403SP-51		
Q507	8-729-104-18	TRANSISTOR	2SC3514-Q		
Q508	8-729-119-78	TRANSISTOR	2SC403SP-51		
Q509	8-729-018-19	TRANSISTOR	2SK2013-Y		
Q510	8-729-018-21	TRANSISTOR	2SJ313-Y		
Q511	8-729-015-30	FET	2SK1530-Y		

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
Q512	8-729-015-31	FET 2SJ201-Y				R610	1-259-183-11	CARBON	4.7K	5%	1/4W
Q513	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				△ R611	1-249-405-11	CARBON	100	5%	1/4W F
Q600	8-729-045-15	TRANSISTOR 2SC5169-FG									
Q601	8-729-201-53	TRANSISTOR 2SA1015-GR				R612	1-259-183-11	CARBON	4.7K	5%	1/4W
Q602	8-729-201-53	TRANSISTOR 2SA1015-GR				R613	1-259-171-21	CARBON	1.5K	5%	1/4W
Q603	8-729-201-53	TRANSISTOR 2SA1015-GR				R614	1-249-496-11	CARBON	100K	5%	1/3W
Q604	8-729-104-91	TRANSISTOR 2SA1383				R615	1-259-143-21	CARBON	100	5%	1/4W
Q605	8-729-202-67	FET 2SK246-GR3				R616	1-247-749-11	CARBON	560	5%	1/2W
Q606	8-729-119-78	TRANSISTOR 2SC403SP-51				△ R617	1-247-696-11	CARBON	47	5%	1/4W F
Q607	8-729-104-18	TRANSISTOR 2SC3514-Q				△ R618	1-247-696-11	CARBON	47	5%	1/4W F
Q608	8-729-119-78	TRANSISTOR 2SC403SP-51				△ R619	1-247-745-11	CARBON	330	5%	1/2W F
Q609	8-729-018-19	TRANSISTOR 2SK2013-Y				△ R620	1-249-405-11	CARBON	100	5%	1/4W F
Q610	8-729-018-21	TRANSISTOR 2SJ313-Y				△ R621	1-249-405-11	CARBON	100	5%	1/4W F
Q611	8-729-015-30	FET 2SK1530-Y				△ R622	1-208-601-11	REGISTER	0.1	10%	2W F
Q612	8-729-015-31	FET 2SJ201-Y				△ R623	1-208-601-11	REGISTER	0.1	10%	2W F
Q613	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				R624	1-259-436-11	CARBON	2.2K	5%	1/6W
Q702	8-729-209-15	TRANSISTOR 2SD2012				R625	1-259-432-11	CARBON	1.5K	5%	1/6W
Q703	8-729-900-63	TRANSISTOR DTA124ES				R626	1-249-162-11	CARBON	10	5%	1/3W
< RESISTOR >						R627	1-259-484-11	CARBON	220K	5%	1/6W
						R709	1-249-425-11	CARBON	4.7K	5%	1/4W
R500	1-259-167-21	CARBON	1K	5%	1/4W	< VARIABLE RESISTOR >					
R501	1-259-215-21	CARBON	100K	5%	1/4W						
R502	1-259-151-21	CARBON	220	5%	1/4W	RV500	1-241-762-11	RES, ADJ, CARBON 2.2K			
R503	1-259-151-21	CARBON	220	5%	1/4W	RV600	1-241-762-11	RES, ADJ, CARBON 2.2K			
R504	1-259-151-21	CARBON	220	5%	1/4W	*****					
R505	1-259-179-21	CARBON	3.3K	5%	1/4W	*	A-4407-634-A	PANEL BOARD, COMPLETE			
R506	1-259-151-21	CARBON	220	5%	1/4W	*****					
R507	1-259-151-21	CARBON	220	5%	1/4W	< CAPACITOR >					
R508	1-249-490-11	CARBON	27K	5%	1/3W	C301	1-130-475-00	MYLAR	0.0022uF	5%	50V
R509	1-259-175-11	CARBON	2.2K	5%	1/4W	C302	1-136-153-00	FILM	0.01uF	5%	50V
R510	1-259-183-11	CARBON	4.7K	5%	1/4W	C303	1-136-155-00	FILM	0.015uF	5%	50V
△ R511	1-249-405-11	CARBON	100	5%	1/4W F	C304	1-136-165-00	FILM	0.1uF	5%	50V
R512	1-259-183-11	CARBON	4.7K	5%	1/4W	C401	1-130-475-00	MYLAR	0.0022uF	5%	50V
R513	1-259-171-21	CARBON	1.5K	5%	1/4W	C402	1-136-153-00	FILM	0.01uF	5%	50V
R514	1-249-496-11	CARBON	100K	5%	1/3W	C403	1-136-155-00	FILM	0.015uF	5%	50V
R515	1-259-143-21	CARBON	100	5%	1/4W	C404	1-136-165-00	FILM	0.1uF	5%	50V
R516	1-247-749-11	CARBON	560	5%	1/2W	C901	1-162-282-31	CERAMIC	100PF	10%	50V
△ R517	1-247-696-11	CARBON	47	5%	1/4W F	C902	1-162-207-31	CERAMIC	22PF	5%	50V
△ R518	1-247-696-11	CARBON	47	5%	1/4W F	C903	1-162-207-31	CERAMIC	22PF	5%	50V
△ R519	1-247-745-11	CARBON	330	5%	1/2W F	C904	1-164-159-11	CERAMIC	0.1uF		50V
△ R520	1-249-405-11	CARBON	100	5%	1/4W F	C905	1-164-159-11	CERAMIC	0.1uF		50V
△ R521	1-249-405-11	CARBON	100	5%	1/4W F	< CONNECTOR >					
△ R522	1-208-601-11	REGISTER	0.1	10%	2W F	* CN300	1-564-522-11	PLUG, CONNECTOR 7P			
△ R523	1-208-601-11	REGISTER	0.1	10%	2W F	CN301	1-564-524-11	PLUG, CONNECTOR 9P			
R524	1-259-436-11	CARBON	2.2K	5%	1/6W	* CN804	1-564-519-11	PLUG, CONNECTOR 4P			
R525	1-259-432-11	CARBON	1.5K	5%	1/6W	* CN805	1-569-648-11	PIN, CONNECTOR (PC BOARD) 11P			
R526	1-249-162-11	CARBON	10	5%	1/3W	CN814	1-691-773-11	PLUG (MICRO CONNECTOR) 11P			
R527	1-259-484-11	CARBON	220K	5%	1/6W	CN907	1-562-087-00	SOCKET, CONNECTOR 4P			
R600	1-259-167-21	CARBON	1K	5%	1/4W	< DIODE >					
R601	1-259-215-21	CARBON	100K	5%	1/4W	D901	8-719-911-19	DIODE	1SS119		
R602	1-259-151-21	CARBON	220	5%	1/4W	D902	8-719-911-19	DIODE	1SS119		
R603	1-259-151-21	CARBON	220	5%	1/4W	D903	8-719-911-19	DIODE	1SS119		
R604	1-259-151-21	CARBON	220	5%	1/4W	D904	8-719-911-19	DIODE	1SS119		
R605	1-259-179-21	CARBON	3.3K	5%	1/4W	D905	8-719-911-19	DIODE	1SS119		
R606	1-259-151-21	CARBON	220	5%	1/4W						
R607	1-259-151-21	CARBON	220	5%	1/4W						
R608	1-249-490-11	CARBON	27K	5%	1/3W						
R609	1-259-175-11	CARBON	2.2K	5%	1/4W						

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

PANEL

PHONO

Ref. No.	Part No.	Description	Remark		
D906	8-719-911-19	DIODE 1SS119			
D907	8-719-911-19	DIODE 1SS119			
D908	8-719-911-19	DIODE 1SS119			
D910	8-719-986-56	DIODE HZS24-3LTA			
D911	8-719-200-82	DIODE 11ES2			
D912	8-719-911-19	DIODE 1SS119			
D923	8-719-911-19	DIODE 1SS119			
D924	8-719-911-19	DIODE 1SS119			
< IC >					
IC901	8-759-352-00	IC TMP47C200BN-H351			
IC902	8-759-188-67	IC X24C01P-S			
IC903	8-759-962-08	IC BA6208			
IC905	8-759-635-63	IC M51943BSL			
< TRANSISTOR >					
Q901	8-729-900-63	TRANSISTOR DTA124ES			
Q902	8-729-900-63	TRANSISTOR DTA124ES			
Q903	8-729-900-63	TRANSISTOR DTA124ES			
Q904	8-729-900-63	TRANSISTOR DTA124ES			
Q905	8-729-201-53	TRANSISTOR 2SA1015-GR			
Q906	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q911	8-729-900-63	TRANSISTOR DTA124ES			
Q912	8-729-119-76	TRANSISTOR 2SA1175-HFE			
< RESISTOR >					
R302	1-259-502-11	CARBON 4.7M	5%	1/4W	
R303	1-259-183-11	CARBON 4.7K	5%	1/4W	
R304	1-259-171-21	CARBON 1.5K	5%	1/4W	
R305	1-259-502-11	CARBON 4.7M	5%	1/4W	
R306	1-259-199-11	CARBON 22K	5%	1/4W	
R307	1-259-183-11	CARBON 4.7K	5%	1/4W	
R308	1-259-183-11	CARBON 4.7K	5%	1/4W	
R309	1-259-199-11	CARBON 22K	5%	1/4W	
R402	1-259-502-11	CARBON 4.7M	5%	1/4W	
R403	1-259-183-11	CARBON 4.7K	5%	1/4W	
R404	1-259-171-21	CARBON 1.5K	5%	1/4W	
R405	1-259-502-11	CARBON 4.7M	5%	1/4W	
R406	1-259-199-11	CARBON 22K	5%	1/4W	
R407	1-259-183-11	CARBON 4.7K	5%	1/4W	
R408	1-259-183-11	CARBON 4.7K	5%	1/4W	
R409	1-259-199-11	CARBON 22K	5%	1/4W	
R901	1-249-433-11	CARBON 22K	5%	1/4W	
R902	1-249-433-11	CARBON 22K	5%	1/4W	
R903	1-249-433-11	CARBON 22K	5%	1/4W	
R904	1-249-433-11	CARBON 22K	5%	1/4W	
R905	1-249-433-11	CARBON 22K	5%	1/4W	
R906	1-249-433-11	CARBON 22K	5%	1/4W	
R907	1-249-425-11	CARBON 4.7K	5%	1/4W	
R908	1-249-425-11	CARBON 4.7K	5%	1/4W	
R909	1-249-425-11	CARBON 4.7K	5%	1/4W	
R910	1-249-429-11	CARBON 10K	5%	1/4W	
R911	1-249-429-11	CARBON 10K	5%	1/4W	
R912	1-249-433-11	CARBON 22K	5%	1/4W	
R913	1-249-433-11	CARBON 22K	5%	1/4W	
R914	1-249-429-11	CARBON 10K	5%	1/4W	
R915	1-249-433-11	CARBON 22K	5%	1/4W	
R916	1-249-425-11	CARBON 4.7K	5%	1/4W	

Ref. No.	Part No.	Description			Remark
R917	1-249-429-11	CARBON	10K	5%	1/4W
R918	1-249-429-11	CARBON	10K	5%	1/4W
R919	1-249-429-11	CARBON	10K	5%	1/4W
R920	1-249-429-11	CARBON	10K	5%	1/4W
R921	1-249-429-11	CARBON	10K	5%	1/4W
R922	1-249-429-11	CARBON	10K	5%	1/4W
R923	1-247-807-31	CARBON	100	5%	1/4W
R924	1-247-807-31	CARBON	100	5%	1/4W
R925	1-247-807-31	CARBON	100	5%	1/4W
R926	1-247-807-31	CARBON	100	5%	1/4W
R927	1-247-807-31	CARBON	100	5%	1/4W
R928	1-247-807-31	CARBON	100	5%	1/4W
R929	1-247-753-11	CARBON	1.2K	5%	1/2W
R930	1-247-843-11	CARBON	3.3K	5%	1/4W
R933	1-247-753-11	CARBON	1.2K	5%	1/2W
R934	1-249-409-11	CARBON	220	5%	1/4W
R935	1-249-409-11	CARBON	220	5%	1/4W
R936	1-247-752-11	CARBON	1K	5%	1/2W
R937	1-247-753-11	CARBON	1.2K	5%	1/2W
R938	1-247-753-11	CARBON	1.2K	5%	1/2W
R939	1-247-752-11	CARBON	1K	5%	1/2W
R940	1-249-435-11	CARBON	33K	5%	1/4W
R941	1-249-400-11	CARBON	39	5%	1/4W
R942	1-247-843-11	CARBON	3.3K	5%	1/4W
R999	1-249-433-11	CARBON	22K	5%	1/4W
< VARIABLE RESISTOR >					
RV301	1-225-615-11	RES, VAR, CARBON 250K/250K (BALANCE)			
RV302	1-225-614-11	RES, VAR, CARBON 250K/250K (TREBLE)			
RV303	1-225-613-11	RES, VAR, CARBON 900K/900K (BASS)			
< SWITCH >					
S301	1-571-828-11	SWITCH, PUSH (1 KEY) (SOURCE DIRECT)			
S302	1-762-394-11	SWITCH, PUSH (1 KEY) (MUTING)			
S901	1-771-506-11	SWITCH, ROTARY (SPEAKERS)			
S903	1-762-183-11	SWITCH, ROTARY (INPUT SELECTOR)			
< VIBRATOR >					
X900	1-579-223-11	OSCILLATOR, CERAMIC (8MHz)			

*	A-4407-672-A	PHONO BOARD, COMPLETE			

< CAPACITOR >					
C150	1-102-978-00	CERAMIC	220PF	5%	50V
C151	1-126-059-11	ELECT	10uF	20%	50V
C152	1-101-880-00	CERAMIC	47PF	5%	50V
C153	1-106-359-00	MYLAR	4700PF	5%	200V
C154	1-126-024-11	ELECT	220uF	20%	16V
C155	1-130-341-00	FILM	0.056uF	3%	100V
C156	1-130-971-00	FILM	0.016uF	3%	100V
C157	1-126-059-11	ELECT	10uF	20%	50V
C170	1-126-023-11	ELECT	100uF	20%	25V
C171	1-136-165-00	FILM	0.1uF	5%	50V
C172	1-136-165-00	FILM	0.1uF	5%	50V
C250	1-102-978-00	CERAMIC	220PF	5%	50V
C251	1-126-059-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description	Remark		
C252	1-101-880-00	CERAMIC	47PF	5%	50V
C253	1-106-359-00	MYLAR	4700PF	5%	200V
C254	1-126-024-11	ELECT	220uF	20%	16V
C255	1-130-341-00	FILM	0.056uF	3%	100V
C256	1-130-971-00	FILM	0.016uF	3%	100V
C257	1-126-059-11	ELECT	10uF	20%	50V
< CONNECTOR >					
CN151	1-691-768-11	PLUG (MICRO CONNECTOR) 6P			
< DIODE >					
D170	8-719-985-97	DIODE HZS7B1LTA			
< IC >					
IC150	8-759-701-25	IC NJM2068D-D			
< JACK >					
J150	1-784-933-11	JACK 2P (PHONO IN)			
< TRANSISTOR >					
Q150	8-729-354-52	TRANSISTOR 2SC2545			
Q151	8-729-354-52	TRANSISTOR 2SC2545			
Q250	8-729-354-52	TRANSISTOR 2SC2545			
Q251	8-729-354-52	TRANSISTOR 2SC2545			
< RESISTOR >					
R151	1-249-911-11	CARBON	330	5%	1/4W
R152	1-259-215-21	CARBON	100K	5%	1/4W
R153	1-259-215-21	CARBON	100K	5%	1/4W
R154	1-259-161-21	CARBON	560	5%	1/4W
R155	1-259-161-21	CARBON	560	5%	1/4W
R156	1-259-143-21	CARBON	100	5%	1/4W
R157	1-259-191-21	CARBON	10K	5%	1/4W
R158	1-249-900-11	CARBON	110	5%	1/4W
R159	1-249-844-11	CARBON	56K	1%	1/2W
R160	1-259-320-11	CARBON	4.7K	1%	1/2W
R161	1-259-239-11	CARBON	1M	5%	1/4W
R162	1-259-167-21	CARBON	1K	5%	1/4W
R168	1-259-143-21	CARBON	100	5%	1/4W
R169	1-259-115-11	CARBON	6.8	5%	1/4W
R170	1-259-171-21	CARBON	1.5K	5%	1/4W
R251	1-249-911-11	CARBON	330	5%	1/4W
R252	1-259-215-21	CARBON	100K	5%	1/4W
R253	1-259-215-21	CARBON	100K	5%	1/4W
R254	1-259-161-21	CARBON	560	5%	1/4W
R255	1-259-161-21	CARBON	560	5%	1/4W
R256	1-259-143-21	CARBON	100	5%	1/4W
R257	1-259-191-21	CARBON	10K	5%	1/4W
R258	1-249-900-11	CARBON	110	5%	1/4W
R259	1-249-844-11	CARBON	56K	1%	1/2W
R260	1-259-320-11	CARBON	4.7K	1%	1/2W
R261	1-259-239-11	CARBON	1M	5%	1/4W
R262	1-259-167-21	CARBON	1K	5%	1/4W
R268	1-259-143-21	CARBON	100	5%	1/4W
R269	1-259-115-11	CARBON	6.8	5%	1/4W

Ref. No.	Part No.	Description	Remark		
< SWITCH >					
S101	1-762-395-11	SWITCH, PUSH (1 KEY) (PHONO CARTRIDGE)			

*	1-669-481-11	POWER LED BOARD			

< CONNECTOR >					
CN900	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
< DIODE >					
D913	8-719-313-40	LED SEL1516W (POWER)			
< IC >					
IC904	8-749-014-66	IC NJL56H400A			
< RESISTOR >					
R931	1-249-408-11	CARBON	180	5%	1/4W

*	1-669-473-11	PS BOARD			

< CAPACITOR >					
C750	1-125-939-11	ELECT	10000uF	20%	56V
C751	1-125-939-11	ELECT	10000uF	20%	56V
C756	1-136-880-11	FILM	2.2uF	10%	160V
< CONNECTOR >					
CN1	1-774-108-11	PIN, CONNECTOR (PC BOARD)			
CN2	1-564-321-00	PIN, CONNECTOR 2P			
CN3	1-564-321-00	PIN, CONNECTOR 2P			
* CN750	1-564-687-11	PIN, CONNECTOR 3P			
* CN751	1-766-920-11	PIN, CONNECTOR 4P			
CN752	1-770-832-11	CONNECTOR, BOARD TO BOARD 6P			
< DIODE >					
D751	8-719-230-02	DIODE 30DF2			
D752	8-719-230-02	DIODE 30DF2			
D753	8-719-230-02	DIODE 30DF2			
D754	8-719-230-02	DIODE 30DF2			
< FUSE >					
△ F1	1-532-504-51	FUSE T4AL/250V			
< FUSE HOLDER >					
FH1	1-533-233-11	HOLDER, FUSE			
FH2	1-533-233-11	HOLDER, FUSE			
< RESISTOR >					
△ R750	1-212-974-00	FUSIBLE	47	5%	1/2W F

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Replace only with part number specified.

TA-FA30ES

SP TM

SW

VOL

Ref. No.	Part No.	Description	Remark			
*	A-4407-670-A	SP TM BOARD, COMPLETE				

< CAPACITOR >						
C700	1-126-965-11	ELECT	22uF	20%	50V	
C701	1-136-163-00	FILM	0.068uF	5%	50V	
C702	1-124-995-11	ELECT	220uF	20%	10V	
C703	1-136-157-00	FILM	0.022uF	5%	50V	
C704	1-104-664-11	ELECT	47uF	20%	16V	
C705	1-104-664-11	ELECT	47uF	20%	16V	
C706	1-137-150-11	MYLAR	0.01uF	10%	100V	
C707	1-137-150-11	MYLAR	0.01uF	10%	100V	
C708	1-128-578-11	ELECT	1uF	20%	100V	
C709	1-128-556-11	ELECT	1000uF	20%	63V	
C710	1-128-553-11	ELECT	220uF	20%	63V	
C711	1-128-582-11	ELECT	10uF	20%	63V	
< CONNECTOR >						
CN702	1-770-831-11	CONNECTOR, BOARD TO BOARD 6P				
< DIODE >						
D511	8-719-911-19	DIODE 1SS119				
D513	8-719-911-19	DIODE 1SS119				
D700	8-719-024-99	DIODE 11ES2-NTA2B				
D701	8-719-024-99	DIODE 11ES2-NTA2B				
D702	8-719-024-99	DIODE 11ES2-NTA2B				
< IC >						
IC700	8-759-111-68	IC uPC1237HA				
< COIL >						
L501	1-411-906-11	COIL, AIR-CORE 0.6uH				
L601	1-411-906-11	COIL, AIR-CORE 0.6uH				
< TRANSISTOR >						
Q700	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q701	8-729-119-78	TRANSISTOR 2SC403SP-51				
< RESISTOR >						
R528	1-249-162-11	CARBON	10	5%	1/3W	
R529	1-247-750-11	CARBON	680	5%	1/2W	
R628	1-249-162-11	CARBON	10	5%	1/3W	
R629	1-247-750-11	CARBON	680	5%	1/2W	
R700	1-249-437-11	CARBON	47K	5%	1/4W	
R701	1-249-429-11	CARBON	10K	5%	1/4W	
R702	1-249-429-11	CARBON	10K	5%	1/4W	
R703	1-259-476-11	CARBON	100K	5%	1/6W	
R704	1-249-433-11	CARBON	22K	5%	1/4W	
R705	1-247-883-00	CARBON	150K	5%	1/4W	
R706	1-249-431-11	CARBON	15K	5%	1/4W	
R707	1-249-429-11	CARBON	10K	5%	1/4W	
△R708	1-217-493-00	FUSIBLE	100	5%	1W	
R710	1-247-747-11	CARBON	470	5%	1/2W	
R711	1-247-747-11	CARBON	470	5%	1/2W	
< RELAY >						
RY501	1-515-920-11	RELAY (24V)				

Ref. No.	Part No.	Description	Remark
RY503	1-515-920-11	RELAY (24V)	
< TERMINAL >			
TM501	1-537-235-11	TERMINAL BOARD (SP)	
(SPEAKERS MAIN, BI-WIRE)			

*	1-669-484-11	SW BOARD	

< CONNECTOR >			
CN908	1-560-941-11	PIN, CONNECTOR 4P	
< SWITCH >			
S902	1-762-165-11	SWITCH, LEVER SLIDE (TAPE MONITOR)	

*	1-669-480-11	VOL BOARD	

< CAPACITOR >			
C305	1-126-965-11	ELECT	22uF 20% 50V
C405	1-126-965-11	ELECT	22uF 20% 50V
< CONNECTOR >			
CN302	1-691-770-11	PLUG (MICRO CONNECTOR) 8P	
CN303	1-691-768-11	PLUG (MICRO CONNECTOR) 6P	
< VARIABLE RESISTOR >			
RV304	1-223-936-11	RES, VAR, CARBON 120K/120K	
(ATTENUATOR)			

MISCELLANEOUS			

4	1-506-113-00	SHORT PLUG	
△ CNP1	1-777-185-11	CORD, POWER	
△ T1	1-431-827-11	TRANSFORMER, POWER	

ACCESSORIES & PACKING MATERIALS			

1-475-739-11	REMOTE COMMANDER (RM-S326)		
3-864-461-11	MANUAL, INSTRUCTION		
	(ENGLISH, FRENCH, SPANISH, PORTUGUESE)		
3-864-461-21	MANUAL, INSTRUCTION		
	(GERMAN, DUTCH, TURKISH, ITALIAN)		
4-981-643-01	COVER, BATTERY (for RM-S326)		

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