

TA-FE600R

SERVICE MANUAL

AEP Model



SPECIFICATIONS

Amplifier section

DIN power output

75 W + 75 W (4 ohms at 1 kHz)
55 W + 55 W (8 ohms at 1 kHz)

Total harmonic distortion

Less than 0.008% (at 10 W output)

Frequency response

PHONO (20 Hz - 20 kHz): RIAA equalization curve
 ± 0.5 dB
TUNER, CD AUX, TAPE1/DAT, TAPE2/MD:
7 Hz - 100 kHz $^{+0}_{-3}$ dB

S/N (network A)

PHONO: 90 dB
TUNER, CD, AUX, TAPE1/DAT, TAPE2/MD: 105 dB

Output voltage / impedance

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

Speakers impedance

4 - 16 ohms, 8 - 16 ohms (SPEAKERS A+B)

Damping factor

100 (8 ohms, 1 kHz)

General

System

Power amplifier: Pure-complementary SEPP OCL
power amplifier with all stages directly coupled
Preamplifier: Low-noise, equalizer amplifier

Power requirements

220 - 230 V AC, 50/60 Hz

Power consumption

180 W

Dimensions (approx.) (w/h/d)

430 × 135 × 365 mm incl. projecting parts and controls

Mass (approx.)

6.4 kg

Supplied accessories

Remote commander (remote) (1) RM-S316
Sony batteries SUM-3 (NS) (2)

Design and specifications are subject to change without notice.



INTEGRATED STEREO AMPLIFIER
SONY®

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SAFETY-RELATED COMPONENT WARNING !!

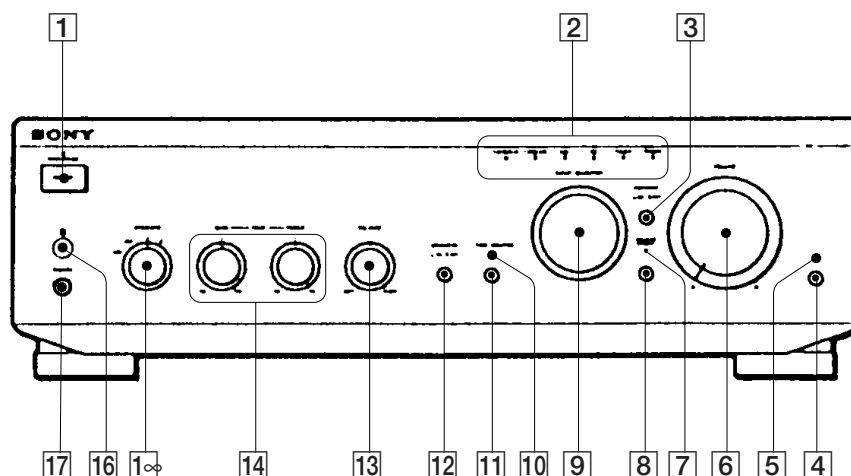
COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERAL

This section is extracted from instruction manual.

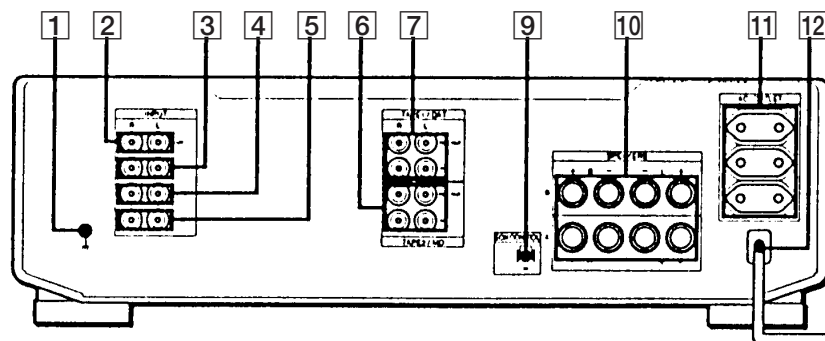
LOCATION OF PARTS AND CONTROLS

FRONT PANEL



- | | |
|----------------------------|--------------------------------|
| 1 POWER switch | 10 TAPE 1 MONITOR indicator |
| 2 INPUT SELECTOR indicator | 11 TAPE 1 MONITOR switch |
| 3 SUBSONIC switch | 12 LOUDNESS switch |
| 4 EON LINK switch | 13 BALANCE control |
| 5 EON LINK indicator | 14 TONE (BASS, TREBLE) control |
| 6 VOLUME control | 15 SPEAKERS selector |
| 7 SOURCE DIRECT indicator | 16 Remote control sensor |
| 8 SOURCE DIRECT switch | 17 PHONES jack |
| 9 INPUT SELECTOR control | |

REAR PANEL



- | | |
|-------------|------------------|
| 1 ㏪ (earth) | 7 TAPE1/DAT |
| 2 AUX | 9 EON CONTROL IN |
| 3 CD | 10 SPEAKERS A/B |
| 4 TUNER | 11 AC OUTLET |
| 5 PHONO | 12 Mains lead |
| 6 TAPE2/MD | |

SECTION 2

ELECTRICAL ADJUSTMENT

Bias Adjustment

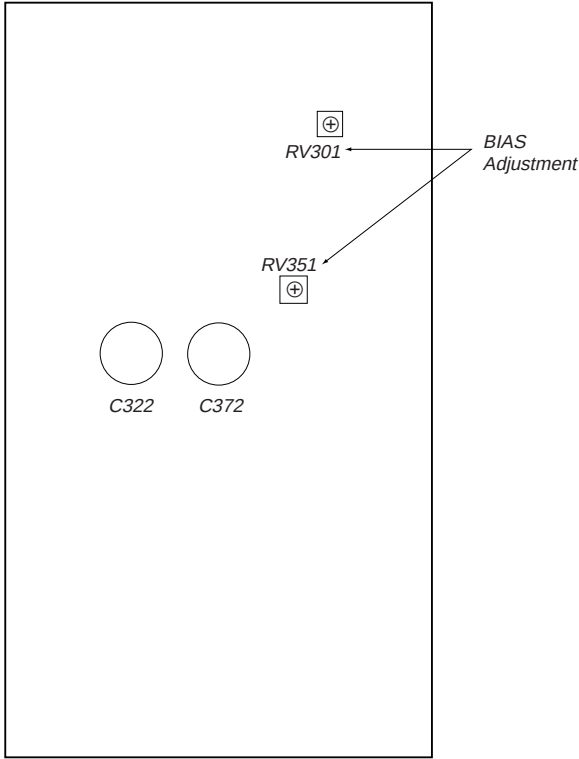
1. Rotate fully the bias adjusting semi-fixed resistors (RV301, RV351) to the MIN position (counterclockwise).
2. Connect a digital voltmeter to the CN406 and CN407.

	1 pin	3 pin
CN406	—	+
CN407	+	—

3. Set the slide regulator to 0V, and press the POWER button (ON) on the set.
4. Raise gradually the slide regulator voltage up to the rated voltage (230 V).
5. At this time, confirm that the SP relay is turned on (it will click).
6. Adjust the RV301 and RV351 so that a reading of digital voltmeter is 10 mV to 15 mV.
7. Return the slidack to 0 V, and press the POWER button (OFF) on the set.

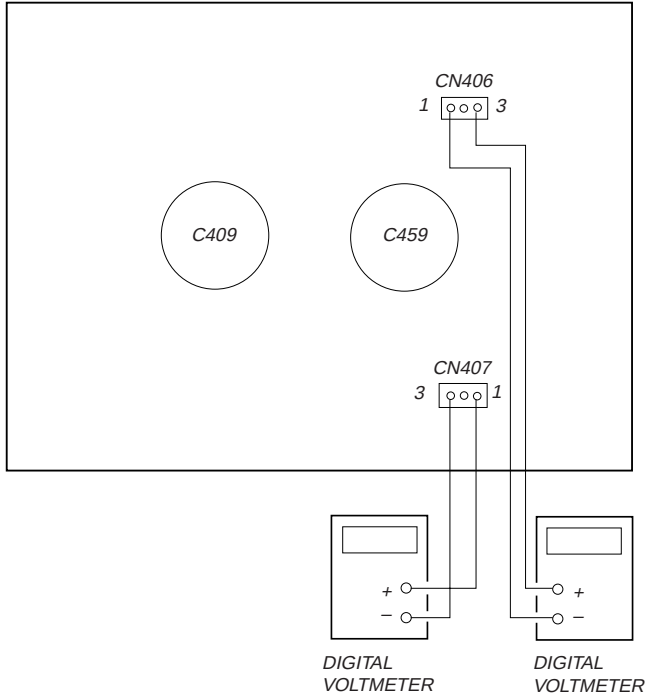
Adjustment Location :

[MAIN A BOARD] — COMPONENT SIDE —



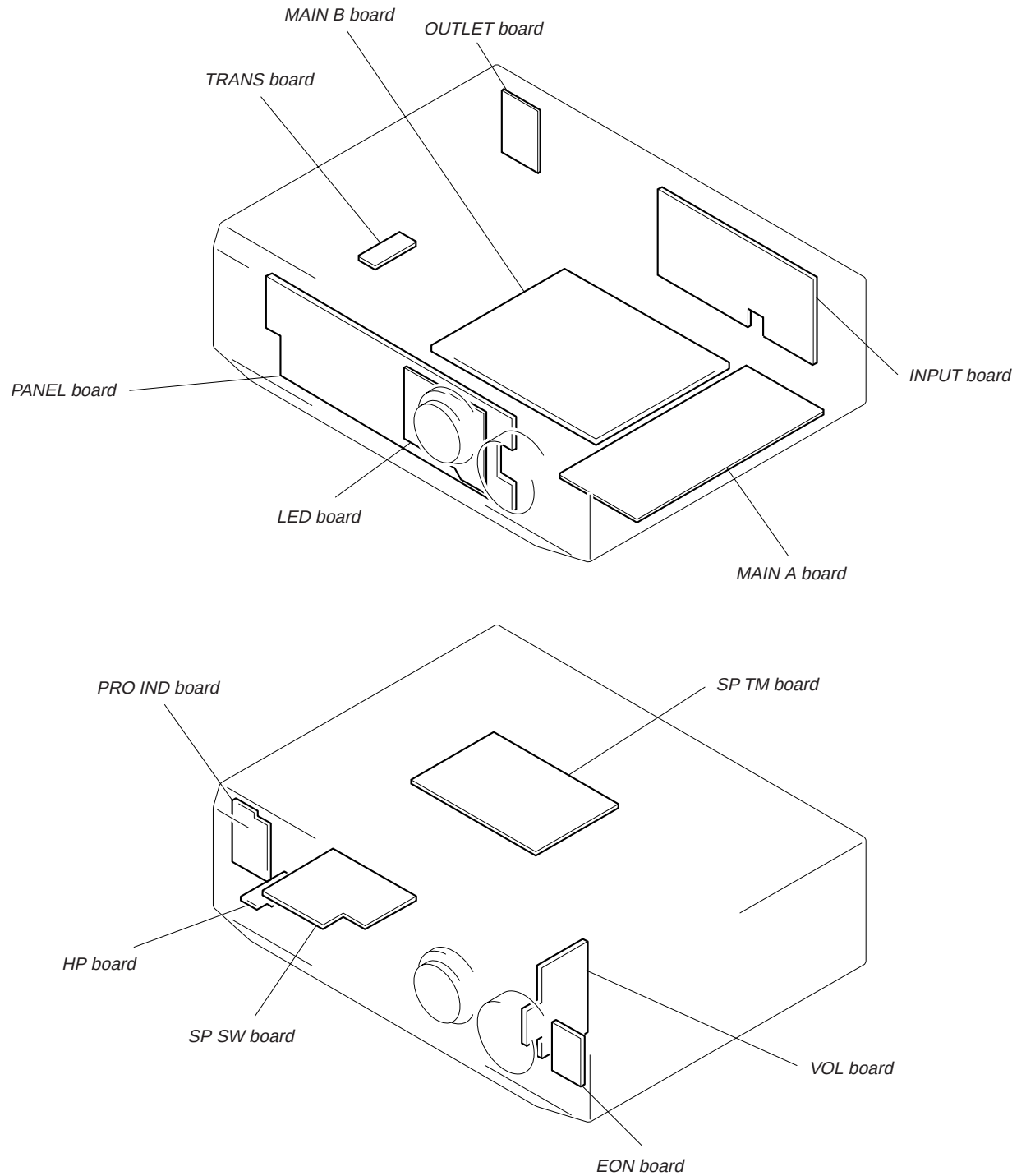
Test Point Location :

[MAIN B BOARD] — COMPONENT SIDE —



SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION

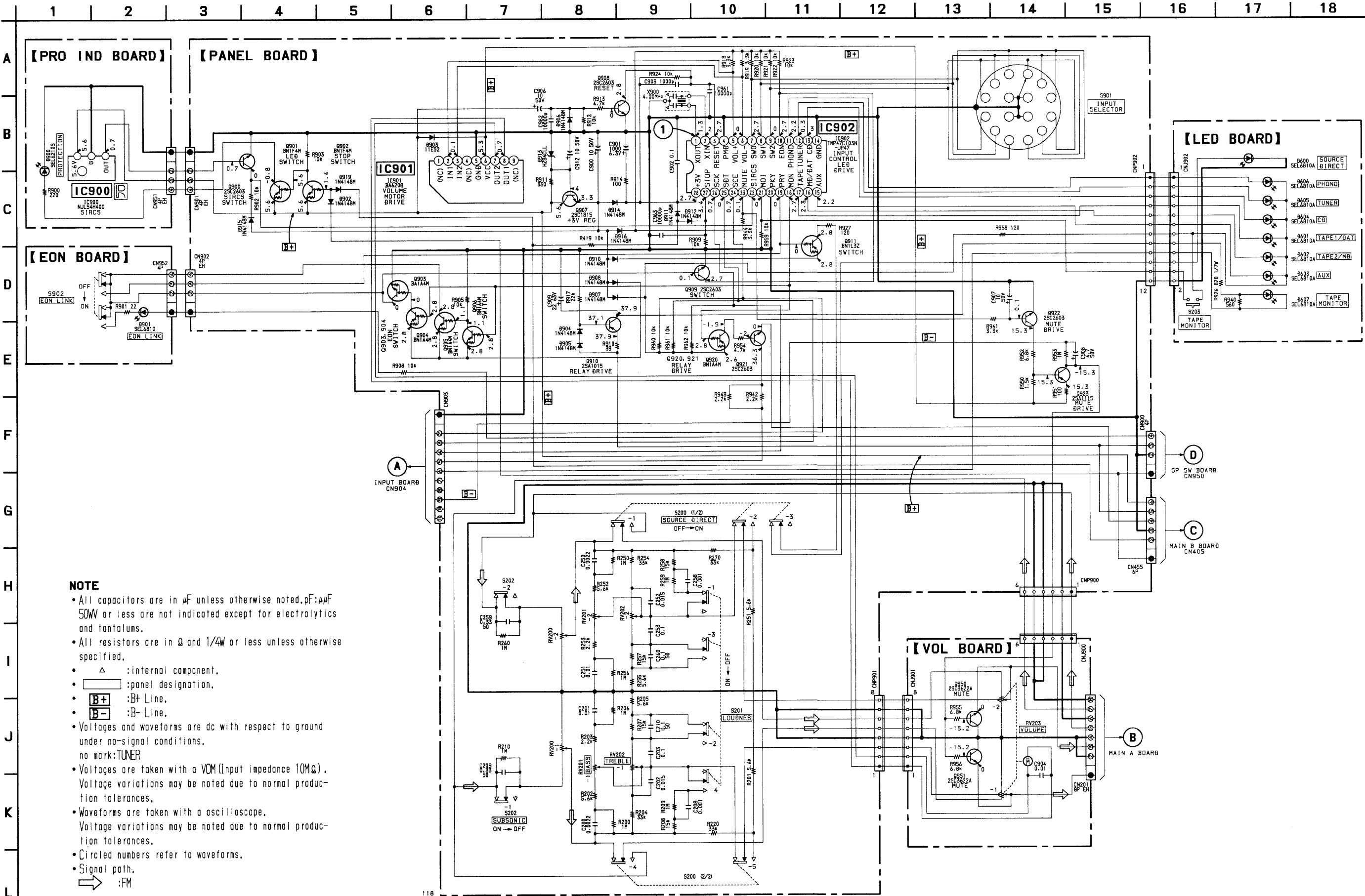


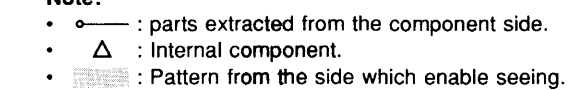
3-2. IC PIN FUNCTION

• IC902 Input Control LED Drive (TMP47C103N-JP47)

Pin No.	Pin Name	I/O	Function
1	X OUT	O	System clock. (4MHz)
2	X IN	I	
3	RESET	I	Reset input.
4	PMD	I	Mode select input.
5	VOL +	O	Motor drive output (+).
6	VOL –	O	Motor drive output (–).
7	SW 0	I	Rotary switch input (CD).
8	SW 1	I	Rotary switch input (TUNER).
9	SW 2	I	Rotary switch input (PHONO).
10	EON	I	EON signal input.
11	PHONO	O	PHONO LED drive output.
12	TUNER	O	TUNER LED drive output.
13	CD	O	CD LED drive output.
14	GND	—	Ground.
15	AUX	O	AUX LED drive output.
16	DAT	O	TAPE “2” LED drive output.
17	TAPE	O	TAPE “1” LED drive output.
18	MON	O	MONITOR output.
19	PRY	O	Power relay output.
20	PKY	I	Power key input.
21	MON	I	MONITOR input.
22	SIRCS	I	SIRCS input.
23	MUTE	O	Muting output.
24	SCE	O	Chip enable output.
25	SDT	O	Serial data output.
26	SCK	O	Serial clock output.
27	STOP	I	STOP input.
28	+3V	—	+3V Power supply.

3-3. SCHEMATIC DIAGRAM — PANEL SECTION —
• See page 6 for IC Pin Function. (IC902)

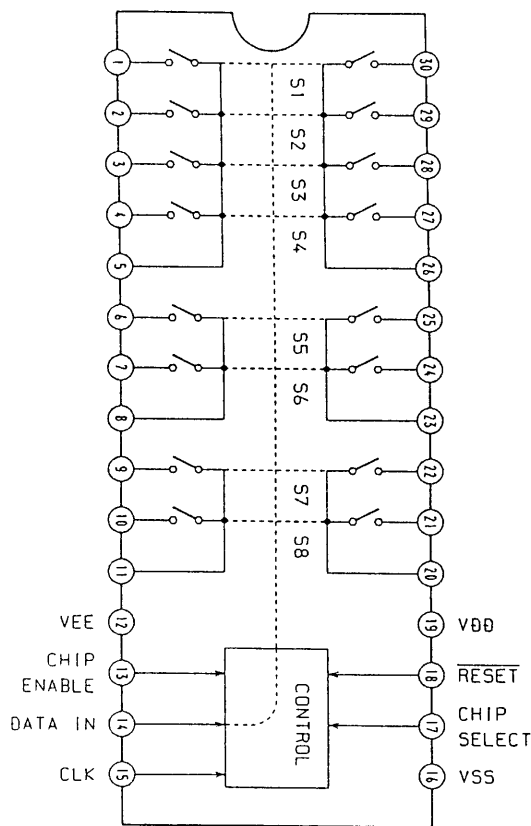




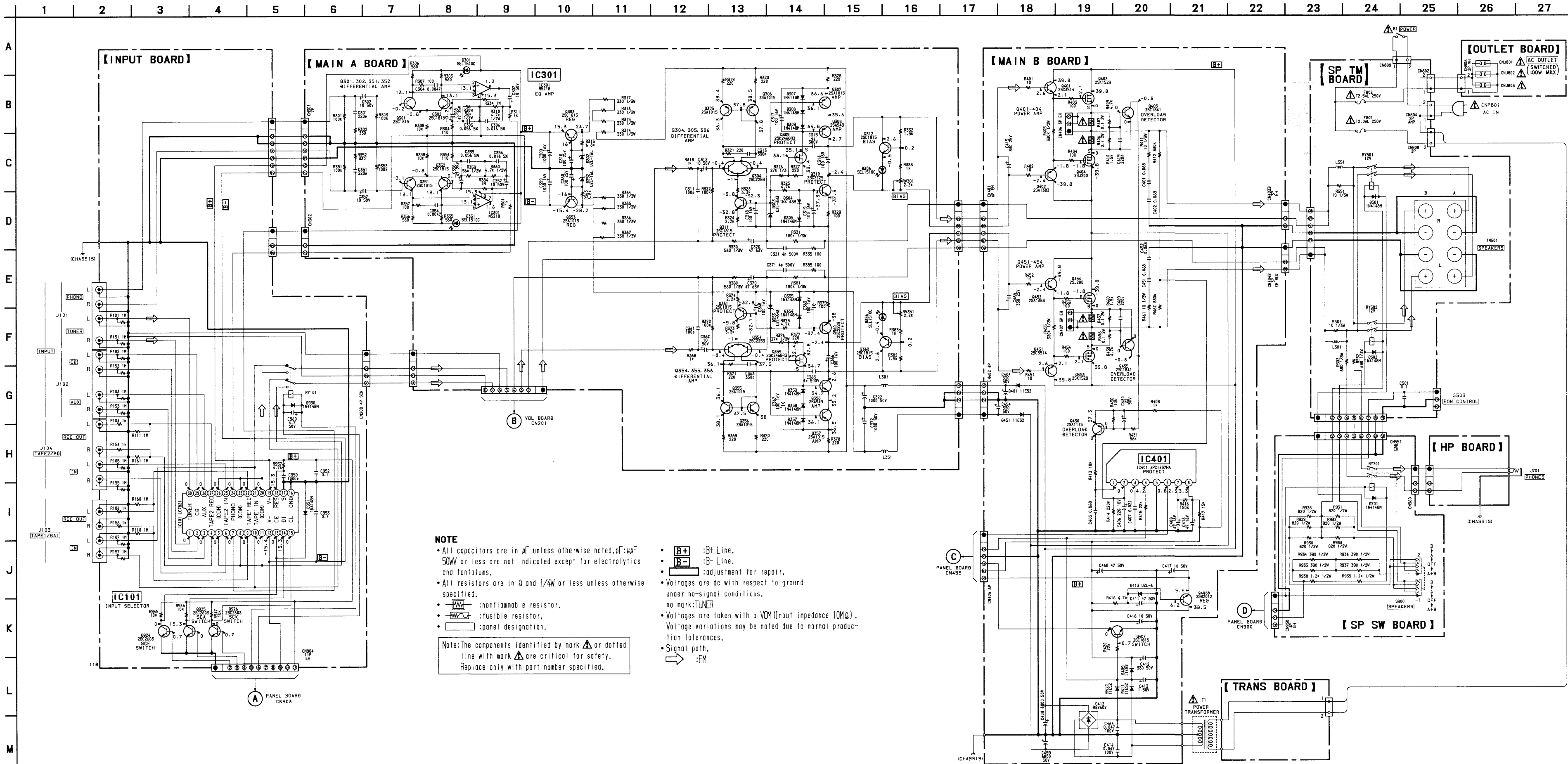
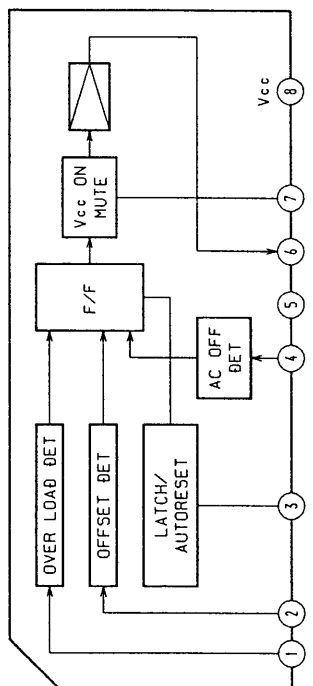
3-5. SCHEMATIC DIAGRAM — MAIN SECTION —

• IC Block Diagrams

IC101 LC7821



IC401 μ PC1237HA



NOTE

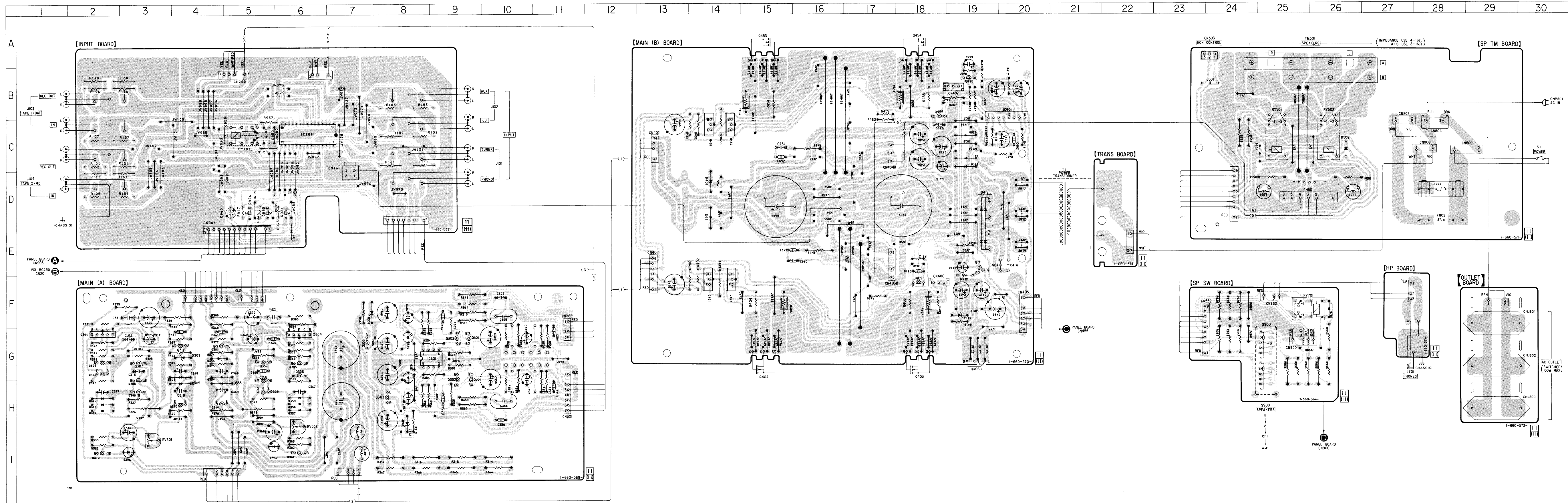
- All capacitors are in μ F unless otherwise noted, pF: μ pF
- 50W or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

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.
- : adjustment for repair.
- Voltages are dc with respect to ground under no-signal conditions.
- no mark: TUNER
- Voltages are taken with a VOM (input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- : FM

3-6. PRINTED WIRING BOARD — MAIN SECTION —

• See page 5 for Circuit Boards Location.



Note:

- : parts extracted from the component side.
- : Pattern from the side which enable seeing.

Semiconductor Location

Ref. No.	Location
D301	G-8
D302	H-8
D303	G-4
D304	G-4
D305	H-4
D306	I-3
D307	H-2
D308	H-2
D309	H-2
D351	G-7
D352	F-7
D353	G-4
D354	G-4
D355	H-4
D356	I-5
D357	H-6
D358	H-6
D359	H-6
D401	D-14
D409	C-19
D410	C-19
D411	C-19
D412	D-19
D413	F-19
D451	D-14
D501	C-25
D502	C-26
D701	F-26
D950	C-5
D951	E-6
IC101	C-6
IC301	G-9
IC401	B-20
Q301	G-9
Q302	G-9
Q303	H-8
Q304	G-2
Q305	G-2
Q306	G-2
Q307	G-3
Q308	H-3
Q309	H-3
Q310	H-4
Q311	G-4
Q312	I-2
Q351	G-9
Q352	G-9
Q353	G-7
Q354	G-6
Q355	G-6
Q356	G-6
Q357	G-5
Q358	G-5
Q359	H-5
Q360	H-4
Q361	G-4
Q362	I-6
Q401	F-14
Q402	F-14
Q403	G-18
Q404	G-15
Q405	F-18
Q430	B-19
Q451	C-14
Q452	C-14
Q453	A-15
Q454	A-18
Q455	B-18
Q456	D-6
Q457	D-5
Q458	D-5
Q459	D-5
Q460	G-19

SECTION 4 EXPLODED VIEWS

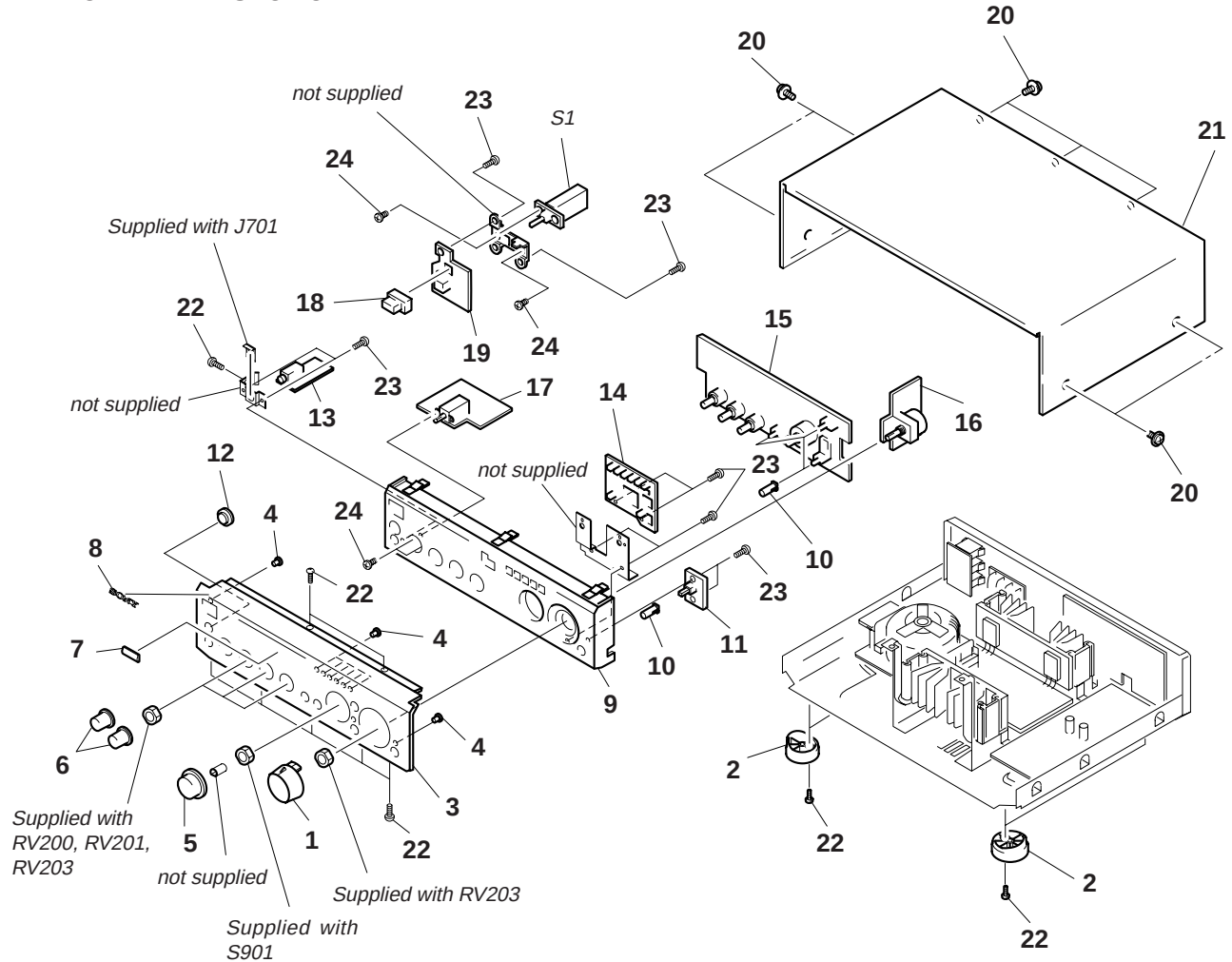
NOTE:

- -XX, -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.

- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
G : German model

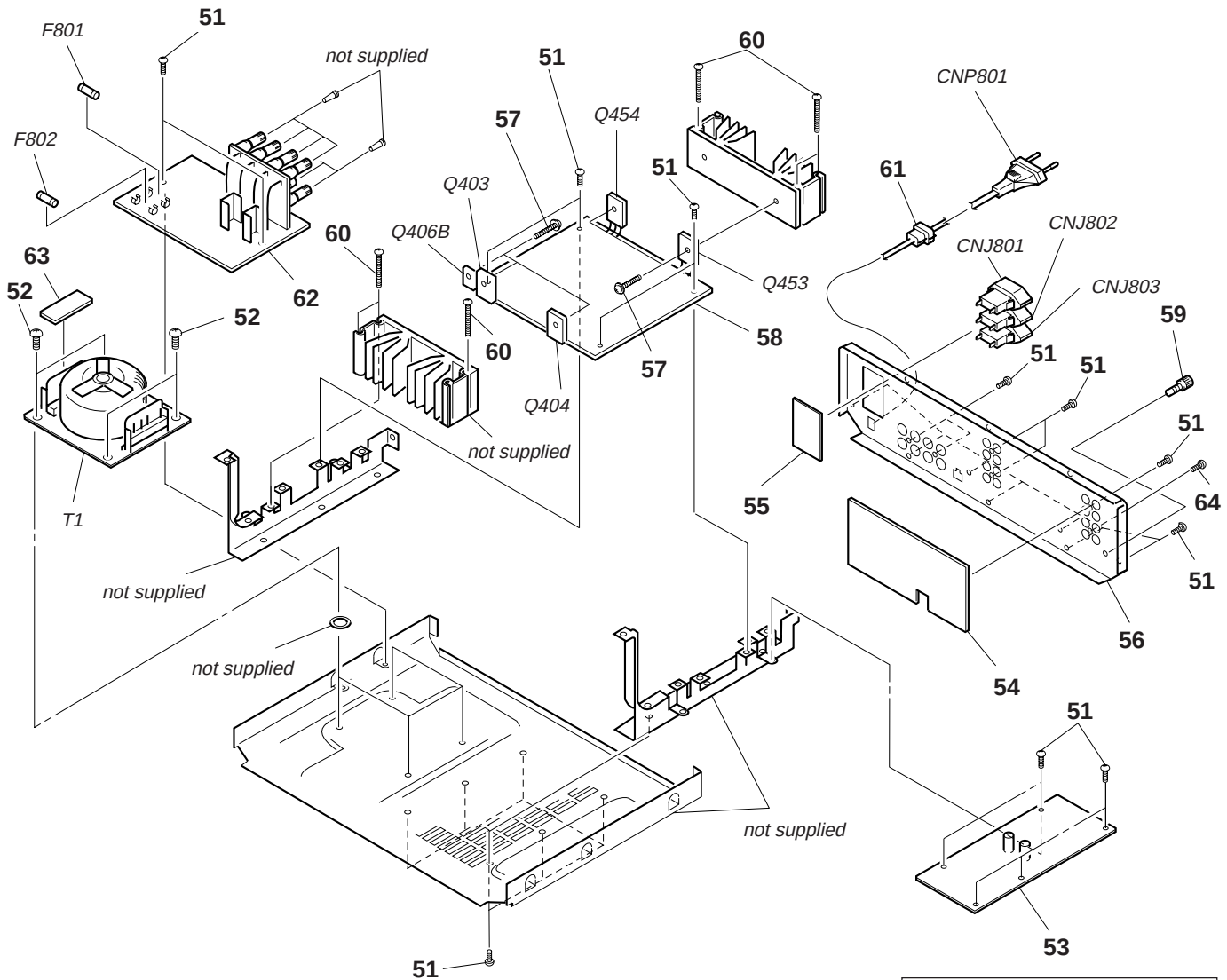
The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-4946-920-1	KNOB (VOL) ASSY		* 14	1-660-562-11	LED BOARD	
2	X-4947-025-1	FOOT ASSY		* 15	A-4389-795-A	PANEL BOARD, COMPLETE	
3	4-980-766-21	PANEL, FRONT		* 16	1-660-565-11	VOL BOARD	
4	4-980-775-01	LENS, LED		* 17	1-660-564-11	SP SW BOARD	
5	4-980-771-01	KNOB (DIA. 47) (SELECTOR)		18	4-980-199-01	BUTTON (POWER)	
6	4-980-204-01	KNOB (DIA. 24) (TONE)		* 19	1-660-567-11	PRO IND BOARD	
7	4-965-651-01	EMBLEM (MOS)		20	3-704-366-01	SCREW (CASE) (M3X8)	
8	4-979-587-01	EMBLEM, SONY		21	4-979-945-41	CASE (412032)	
9	X-4946-923-1	PANEL ASSY, BASE		22	4-967-961-01	SCREW (3X8)	
10	4-980-773-01	BUTTON (DIA. 6) (EON)		23	4-951-620-01	SCREW (2.6X8), +BVTP	
* 11	1-660-566-11	EON BOARD		24	7-682-548-04	SCREW +BVTT 3X8 (S)	
12	4-980-776-01	WINDOW, REMOTE CONTROL		$\triangle$ S1	1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY)(POWER)	
* 13	1-662-376-11	HP BOARD					

4-2. CHASSIS SECTION



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
51	4-967-961-01	SCREW (3X8)		Δ CNJ801	1-526-794-11	OUTLET, AC (AC OUTLET SWITCHED 100W MAX)	
52	4-967-960-01	SCREW (4X8)		Δ CNJ802	1-526-794-11	OUTLET, AC (AC OUTLET SWITCHED 100W MAX)	
* 53	A-4389-792-A	MAIN A BOARD, COMPLETE		Δ CNJ803	1-526-794-11	OUTLET, AC (AC OUTLET SWITCHED 100W MAX)	
* 54	1-660-563-11	INPUT BOARD		Δ CNP801	1-777-185-11	CORD, POWER	
* 55	1-660-573-11	OUTLET BOARD		Δ F801	1-532-388-51	FUSE, TIME LAG (2.0A 250V)	
				Δ F802	1-532-464-51	FUSE, TIME LAG (2.5A 250V)	
* 56	4-980-768-21	PANEL, BACK		Q403	8-729-232-45	TRANSISTOR 2SK1529-Y	
57	3-905-609-11	SCREW (TRANSISTOR)		Q404	8-729-232-46	TRANSISTOR 2SJ200-Y	
* 58	A-4389-793-A	MAIN B BOARD, COMPLETE		Q453	8-729-232-45	TRANSISTOR 2SK1529-Y	
59	4-947-010-01	SCREW, FEEDER FIXED		Q454	8-729-232-46	TRANSISTOR 2SJ200-Y	
60	4-981-016-01	SCREW (H)		Q406B	8-729-209-15	TRANSISTOR 2SD2012	
* 61	3-703-244-00	BUSHING (2104), CORD		Δ T1	1-429-492-11	TRANSFORMER, POWER	
* 62	1-660-571-11	SP TM BOARD					
* 63	1-660-574-11	TRANS BOARD					
64	3-704-515-41	SCREW (BV/RING)					

SECTION 5 ELECTRICAL PARTS LIST

EON

HP

INPUT

Note:

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

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

- 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, -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.
- 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...: μ A..., uPA...: μ PA..., uPB...: μ PB...,
uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS
uF : μ F
- COILS
uH : μ H
- Abbreviation
G : German model

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
*	1-660-566-11	EON BOARD *****							< IC >				
		< CONNECTOR >					IC101	8-759-805-13	IC LC7821				
		< DIODE >							< JACK >				
CN952	1-691-766-11	PLUG (MICRO CONNECTOR) 4P					* J101	1-573-142-11	JACK, PIN 4P (INPUT TUNER,PHONO)				
		< DIODE >					* J102	1-573-142-21	JACK, PIN 4P (INPUT AUX,CD)				
D901	8-719-313-72	DIODE SEL3810A-CD (EON LINK)					* J103	1-573-142-21	JACK, PIN 4P (TAPE 1/DAT REC OUT,IN)				
		< RESISTOR >					* J104	1-573-142-21	JACK, PIN 4P (TAPE 2/MD REC OUT,IN)				
		< SWITCH >							< TRANSISTOR >				
R901	1-249-397-11	CARBON 22 5% 1/4W					Q924	8-729-620-05	TRANSISTOR 2SC2603-EF				
		< SWITCH >					Q925	8-729-620-05	TRANSISTOR 2SC2603-EF				
S902	1-571-112-21	SWITCH, PUSH (1 KEY) (EON LINK)					Q926	8-729-620-05	TRANSISTOR 2SC2603-EF				
*****									< RESISTOR >				
		< JACK >					R101	1-249-995-11	CARBON 1M 5%	1/4W			
		< JACK >					R102	1-249-995-11	CARBON 1M 5%	1/4W			
*	1-662-376-11	HP BOARD *****					R103	1-249-995-11	CARBON 1M 5%	1/4W			
		< JACK >					R104	1-247-713-11	CARBON 1K 5%	1/4W			
		< JACK >					R105	1-249-995-11	CARBON 1M 5%	1/4W			
J701	1-750-735-11	JACK (LARGE TYPE) (PHONES)					R106	1-247-713-11	CARBON 1K 5%	1/4W			
		< JACK >					R107	1-249-995-11	CARBON 1M 5%	1/4W			
*****							R110	1-249-995-11	CARBON 1M 5%	1/4W			
		< JACK >					R111	1-249-995-11	CARBON 1M 5%	1/4W			
*	1-660-563-11	INPUT BOARD *****					R151	1-249-995-11	CARBON 1M 5%	1/4W			
		< CAPACITOR >					R152	1-249-995-11	CARBON 1M 5%	1/4W			
		< CAPACITOR >					R153	1-249-995-11	CARBON 1M 5%	1/4W			
C950	1-162-294-31	CERAMIC 0.001uF 10% 50V					R154	1-247-713-11	CARBON 1K 5%	1/4W			
C952	1-164-159-11	CERAMIC 0.1uF 50V					R155	1-249-995-11	CARBON 1M 5%	1/4W			
C953	1-164-159-11	CERAMIC 0.1uF 50V					R156	1-247-713-11	CARBON 1K 5%	1/4W			
C960	1-126-963-11	ELECT 4.7uF 20% 50V					R157	1-249-995-11	CARBON 1M 5%	1/4W			
		< CONNECTOR >					R160	1-249-995-11	CARBON 1M 5%	1/4W			
		< CONNECTOR >					R161	1-249-995-11	CARBON 1M 5%	1/4W			
CN16	1-564-320-00	PIN,CONNECTOR (B2P-VH)2P					R945	1-249-429-11	CARBON 10K 5%	1/4W			
CN200	1-691-766-11	PLUG (MICRO CONNECTOR) 4P					R946	1-249-429-11	CARBON 10K 5%	1/4W			
CN904	1-691-773-11	PLUG (MICRO CONNECTOR) 11P							< RELAY >				
		< DIODE >							< RELAY >				
D950	8-719-987-63	DIODE 1N4148M					RY101	1-515-614-11	RELAY				
D951	8-719-987-63	DIODE 1N4148M							< RELAY >				

LED

MAIN A

Ref. No.	Part No.	Description	Remark			
*	1-660-562-11	LED BOARD *****				
		< CONNECTOR >				
CNJ902	1-766-796-11	CONNECTOR, BOARD TO BOARD 12P				
		< DIODE >				
D600	8-719-313-72	DIODE SEL3810A-CD (SOURCE DIRECT)				
D601	8-719-313-72	DIODE SEL3810A-CD (TAPE 1/DAT)				
D602	8-719-313-72	DIODE SEL3810A-CD (TAPE 2/MD)				
D603	8-719-313-72	DIODE SEL3810A-CD (AUX)				
D604	8-719-313-72	DIODE SEL3810A-CD (CD)				
D605	8-719-313-72	DIODE SEL3810A-CD (TUNER)				
D606	8-719-313-72	DIODE SEL3810A-CD (PHONO)				
D607	8-719-313-72	DIODE SEL3810A-CD (TAPE 1 MONITOR)				
		< RESISTOR >				
R926	1-247-751-11	CARBON	820	5%	1/2W	
R940	1-249-414-11	CARBON	560	5%	1/4W	
		< SWITCH >				
S203	1-554-303-21	SWITCH, TACTILE (TAPE 1 MONITOR)				

*	A-4389-792-A	MAIN A BOARD, COMPLETE *****				
		< CAPACITOR >				
C301	1-102-978-00	CERAMIC	220PF	5%	50V	
C302	1-126-059-11	ELECT	10uF	20%	50V	
C304	1-106-359-00	MYLAR	4700PF	5%	200V	
C305	1-136-162-00	FILM	0.056uF	5%	50V	
C306	1-137-471-11	FILM	0.016uF	5%	50V	
C307	1-126-059-11	ELECT	10uF	20%	50V	
C308	1-126-022-11	ELECT	47uF	20%	25V	
C309	1-126-013-11	ELECT	1000uF	20%	16V	
C310	1-126-023-11	ELECT	100uF	20%	25V	
C311	1-102-973-00	CERAMIC	100PF	5%	50V	
C312	1-126-059-11	ELECT	10uF	20%	50V	
C313	1-164-079-11	CERAMIC	330PF	10%	50V	
C315	1-102-230-00	CERAMIC	4PF	0.25PF	500V	
C316	1-126-023-11	ELECT	100uF	20%	16V	
C317	1-126-023-11	ELECT	100uF	20%	16V	
C318	1-126-023-11	ELECT	100uF	20%	16V	
C319	1-126-023-11	ELECT	100uF	20%	16V	
C320	1-110-392-11	ELECT	47uF	20%	63V	
C321	1-164-040-11	CERAMIC	4PF	0.25PF	50V	
C322	1-126-056-11	ELECT	1000uF	20%	50V	
C351	1-102-978-00	CERAMIC	220PF	5%	50V	
C352	1-126-059-11	ELECT	10uF	20%	50V	
C354	1-106-359-00	MYLAR	4700PF	5%	200V	

Ref. No.	Part No.	Description	Remark			
C355	1-136-162-00	FILM	0.056uF	5%	50V	
C356	1-137-471-11	FILM	0.016uF	5%	50V	
C357	1-126-059-11	ELECT	10uF	20%	50V	
C358	1-126-022-11	ELECT	47uF	20%	25V	
C359	1-126-013-11	ELECT	1000uF	20%	16V	
C360	1-126-023-11	ELECT	100uF	20%	25V	
C361	1-102-973-00	CERAMIC	100PF	5%	50V	
C362	1-126-059-11	ELECT	10uF	20%	50V	
C363	1-164-079-11	CERAMIC	330PF	10%	50V	
C365	1-102-230-00	CERAMIC	4PF	0.25PF	500V	
C366	1-126-023-11	ELECT	100uF	20%	16V	
C367	1-126-023-11	ELECT	100uF	20%	16V	
C368	1-126-023-11	ELECT	100uF	20%	16V	
C369	1-126-023-11	ELECT	100uF	20%	16V	
C370	1-110-392-11	ELECT	47uF	20%	63V	
C371	1-164-040-11	CERAMIC	4PF	0.25PF	50V	
C372	1-126-056-11	ELECT	1000uF	20%	50V	
		< CONNECTOR >				
CN301	1-691-769-11	PLUG (MICRO CONNECTOR) 7P				
CN302	1-691-765-11	PLUG (MICRO CONNECTOR) 3P				
		< DIODE >				
D301	8-719-310-60	DIODE SEL1510C-C				
D302	8-719-933-88	DIODE HZS16-2L				
D303	8-719-933-41	DIODE HZS6C3L				
D304	8-719-987-63	DIODE 1N4148M				
D305	8-719-987-63	DIODE 1N4148M				
D306	8-719-310-60	DIODE SEL1510C-C				
D307	8-719-987-63	DIODE 1N4148M				
D308	8-719-987-63	DIODE 1N4148M				
D309	8-719-987-63	DIODE 1N4148M				
D351	8-719-310-60	DIODE SEL1510C-C				
D352	8-719-933-88	DIODE HZS16-2L				
D353	8-719-933-41	DIODE HZS6C3L				
D354	8-719-987-63	DIODE 1N4148M				
D355	8-719-987-63	DIODE 1N4148M				
D356	8-719-310-60	DIODE SEL1510C-C				
D357	8-719-987-63	DIODE 1N4148M				
D358	8-719-987-63	DIODE 1N4148M				
D359	8-719-987-63	DIODE 1N4148M				
		< IC >				
IC301	8-759-636-74	IC M5218AP-22				
		< COIL >				
L301	1-411-925-11	COIL, AIR-CORE				
L351	1-411-925-11	COIL, AIR-CORE				
		< TRANSISTOR >				
Q301	8-729-281-54	TRANSISTOR 2SC1815-BL				

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
Q302	8-729-281-54	TRANSISTOR	2SC1815-BL				R329	1-249-899-11	CARBON	100	5%	1/4W	
Q303	8-729-281-54	TRANSISTOR	2SC1815-BL				R330	1-247-749-11	CARBON	560	5%	1/2W	
Q304	8-729-620-17	TRANSISTOR	2SC2259-FG				R331	1-249-496-11	CARBON	100K	5%	1/3W	
Q305	8-729-201-53	TRANSISTOR	2SA1015-GR										
							R332	1-259-171-21	CARBON	1.5K	5%	1/4W	
Q306	8-729-201-53	TRANSISTOR	2SA1015-GR				R333	1-259-167-21	CARBON	1K	5%	1/4W	
Q307	8-729-201-53	TRANSISTOR	2SA1015-GR				R334	1-124-995-11	CARBON	1M	5%	1/4W	
Q308	8-729-021-74	TRANSISTOR	2SA949-OY-TPE6				R335	1-259-143-21	CARBON	100	5%	1/4W	
Q309	8-729-202-67	TRANSISTOR	2SK246-GR3				R351	1-259-215-21	CARBON	100K	5%	1/4W	
Q310	8-729-021-73	TRANSISTOR	2SC2229-OY-TPE6										
							R352	1-249-911-11	CARBON	330	5%	1/4W	
Q311	8-729-281-54	TRANSISTOR	2SC1815-BL				R353	1-259-215-21	CARBON	100K	5%	1/4W	
Q312	8-729-281-54	TRANSISTOR	2SC1815-BL				R354	1-249-900-11	CARBON	110	1%	1/4W	
Q351	8-729-281-54	TRANSISTOR	2SC1815-BL				R355	1-259-161-21	CARBON	560	5%	1/4W	
Q352	8-729-281-54	TRANSISTOR	2SC1815-BL				R356	1-259-161-21	CARBON	560	5%	1/4W	
Q353	8-729-201-53	TRANSISTOR	2SA1015-GR										
							R357	1-259-143-21	CARBON	100	5%	1/4W	
Q354	8-729-620-17	TRANSISTOR	2SC2259-FG				R358	1-259-191-21	CARBON	10K	5%	1/4W	
Q355	8-729-201-53	TRANSISTOR	2SA1015-GR				R359	1-249-844-11	CARBON	56K	1%	1/2W	
Q356	8-729-201-53	TRANSISTOR	2SA1015-GR				R360	1-249-818-11	CARBON	4.7K	1%	1/2W	
Q357	8-729-201-53	TRANSISTOR	2SA1015-GR				R361	1-259-167-21	CARBON	1K	5%	1/4W	
Q358	8-729-021-74	TRANSISTOR	2SA949-OY-TPE6										
							R363	1-249-943-11	CARBON	6.8K	5%	1/4W	
Q359	8-729-202-67	TRANSISTOR	2SK246-GR3				R364	1-249-198-11	CARBON	330	5%	1/3W	
Q360	8-729-021-73	TRANSISTOR	2SC2229-OY-TPE6				R365	1-249-198-11	CARBON	330	5%	1/3W	
Q361	8-729-281-54	TRANSISTOR	2SC1815-BL				R366	1-249-198-11	CARBON	330	5%	1/3W	
Q362	8-729-281-54	TRANSISTOR	2SC1815-BL				R367	1-249-198-11	CARBON	330	5%	1/3W	
		< RESISTOR >					R368	1-259-167-21	CARBON	1K	5%	1/4W	
							R369	1-259-151-21	CARBON	220	5%	1/4W	
R301	1-259-215-21	CARBON	100K	5%	1/4W		R370	1-259-151-21	CARBON	220	5%	1/4W	
R302	1-249-911-11	CARBON	330	5%	1/4W		R371	1-259-151-21	CARBON	220	5%	1/4W	
R303	1-259-215-21	CARBON	100K	5%	1/4W		R372	1-259-215-21	CARBON	100K	5%	1/4W	
R304	1-249-900-11	CARBON	110	1%	1/4W								
R305	1-259-161-21	CARBON	560	5%	1/4W		R373	1-259-179-21	CARBON	3.3K	5%	1/4W	
							R374	1-249-931-11	CARBON	2.2K	5%	1/4W	
R306	1-259-161-21	CARBON	560	5%	1/4W		R375	1-259-444-11	CARBON	4.7K	5%	1/6W	
R307	1-259-143-21	CARBON	100	5%	1/4W		R376	1-249-490-11	CARBON	27K	5%	1/3W	
R													

MAIN B

Ref. No.	Part No.	Description	Remark		
*	A-4389-793-A	MAIN B BOARD, COMPLETE			

< CAPACITOR >					
C401	1-136-163-00	FILM	0.068uF	5%	50V
C402	1-136-163-00	FILM	0.068uF	5%	50V
C404	1-124-920-11	ELECT	330uF	20%	50V
C405	1-136-163-00	FILM	0.068uF	5%	50V
C406	1-126-923-11	ELECT	220uF	20%	10V
C407	1-136-157-00	FILM	0.022uF	5%	50V
C408	1-126-967-11	ELECT	47uF	20%	16V
C409	1-115-426-11	ELECT	6800uF	20%	50
C411	1-126-967-11	ELECT	47uF	20%	50V
C412	1-126-970-11	ELECT	330uF	20%	50V
C413	1-124-903-11	ELECT	1uF	20%	50V
C414	1-137-420-11	FILM	0.047uF	10%	100V
C415	1-126-025-11	ELECT	330uF	20%	25V
C416	1-126-967-11	ELECT	47uF	20%	16V
C417	1-126-964-11	ELECT	10uF	20%	50V
C418	1-126-964-11	ELECT	10uF	20%	50V
C419	1-164-077-11	CERAMIC	220PF	10%	50V
C430	1-126-965-11	ELECT	22uF	20%	50V
C451	1-136-163-00	FILM	0.068uF	5%	50V
C452	1-136-163-00	FILM	0.068uF	5%	50V
C454	1-124-920-11	ELECT	330uF	20%	50V
C459	1-115-426-11	ELECT	6800uF	20%	50
C464	1-137-420-11	FILM	0.047uF	10%	100V
C465	1-126-025-11	ELECT	330uF	20%	25V
C468	1-126-967-11	ELECT	47uF	20%	50V
C469	1-164-077-11	CERAMIC	220PF	10%	50V
< CONNECTOR >					
CN401	1-691-768-11	PLUG (MICRO CONNECTOR) 6P			
CN402	1-691-766-11	PLUG (MICRO CONNECTOR) 4P			
CN405	1-691-768-11	PLUG (MICRO CONNECTOR) 6P			
CN406	1-564-506-11	PLUG, CONNECTOR 3P			
CN407	1-564-506-11	PLUG, CONNECTOR 3P			
CN403B	1-691-765-21	PLUG (MICRO CONNECTOR) 3P			
CN404B	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
< DIODE >					
D401	8-719-024-99	DIODE 11ES2-NTA2B			
D409	8-719-024-99	DIODE 11ES2-NTA2B			
D410	8-719-024-99	DIODE 11ES2-NTA2B			
D411	8-719-024-99	DIODE 11ES2-NTA2B			
D412	8-719-302-38	DIODE RBV-602-01			
D413	8-719-933-39	DIODE HZS6C1L			
D451	8-719-024-99	DIODE 11ES2-NTA2B			
< IC >					
IC401	8-759-111-68	IC uPC1237HA			

Ref. No.	Part No.	Description				Remark
< TRANSISTOR >						
Q401	8-729-104-18	TRANSISTOR	2SC3514-Q			
Q402	8-729-104-91	TRANSISTOR	2SA1383			
Q403	8-729-232-45	TRANSISTOR	2SK1529-Y			
Q404	8-729-232-46	TRANSISTOR	2SJ200-Y			
Q405	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			
Q406B	8-729-209-15	TRANSISTOR	2SD2012			
Q407	8-729-281-54	TRANSISTOR	2SC1815-BL			
Q430	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q451	8-729-104-18	TRANSISTOR	2SC3514-Q			
Q452	8-729-104-91	TRANSISTOR	2SA1383			
Q453	8-729-232-45	TRANSISTOR	2SK1529-Y			
Q454	8-729-232-46	TRANSISTOR	2SJ200-Y			
Q455	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			
< RESISTOR >						
R401	1-249-393-11	CARBON	10	5%	1/4W	
R402	1-249-393-11	CARBON	10	5%	1/4W	
R403	1-249-405-11	CARBON	100	5%	1/4W	
R404	1-249-405-11	CARBON	100	5%	1/4W	
R405	1-247-745-11	CARBON	330	5%	1/2W	
△ R406	1-208-601-11	WIREWOUND	0.1	10%	2W F	
△ R407	1-208-601-11	WIREWOUND	0.1	10%	2W F	
R408	1-259-428-11	CARBON	1K	5%	1/6W	
R409	1-259-444-11	CARBON	4.7K	5%	1/6W	
R410	1-259-432-11	CARBON	1.5K	5%	1/6W	
R411	1-249-162-11	CARBON	10	5%	1/3W	
R412	1-259-488-11	CARBON	330K	5%	1/6W	
R413	1-259-452-11	CARBON	10K	5%	1/6W	
R414	1-259-484-11	CARBON	220K	5%	1/6W	
R415	1-259-460-11	CARBON	22K	5%	1/6W	
R416	1-259-480-11	CARBON	150K	5%	1/6W	
R417	1-259-456-11	CARBON	15K	5%	1/6W	
R418	1-259-444-11	CARBON	4.7K	5%	1/6W	
R420	1-259-460-11	CARBON	22K	5%	1/6W	
R430	1-259-452-11	CARBON	10K	5%	1/6W	
R431	1-259-470-11	CARBON	56K	5%	1/6W	
R451	1-249-393-11	CARBON	10	5%	1/4W	
R452	1-249-393-11	CARBON	10	5%	1/4W	
R453	1-249-405-11	CARBON	100	5%	1/4W	
R454	1-249-405-11	CARBON	100	5%	1/4W	
R455	1-247-745-11	CARBON	330	5%	1/2W	
△ R456	1-208-601-11	WIREWOUND	0.1	10%	2W F	
△ R457	1-208-601-11	WIREWOUND	0.1	10%	2W F	
R459	1-259-444-11	CARBON	4.7K	5%	1/6W	
R460	1-259-432-11	CARBON	1.5K	5%	1/6W	
R461	1-249-162-11	CARBON	10	5%	1/3W	
R462	1-259-488-11	CARBON	330K	5%	1/6W	

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
*	1-660-573-11	OUTLET BOARD *****	
		< CONNECTOR >	
△ CNJ801	1-526-794-11	OUTLET,AC (AC OUTLET SWITCHED 100W MAX)	
△ CNJ802	1-526-794-11	OUTLET,AC (AC OUTLET SWITCHED 100W MAX)	
△ CNJ803	1-526-794-11	OUTLET,AC (AC OUTLET SWITCHED 100W MAX)	

*	A-4389-795-A	PANEL BOARD, COMPLETE *****	
		< CAPACITOR >	
C200	1-130-475-00	MYLAR 0.0022uF 5% 50V	
C201	1-136-153-00	FILM 0.01uF 5% 50V	
C202	1-136-155-00	FILM 0.015uF 5% 50V	
C203	1-136-165-00	FILM 0.1uF 5% 50V	
C208	1-130-471-00	MYLAR 0.001uF 5% 50V	
C209	1-136-171-00	FILM 0.33uF 5% 50V	
C210	1-136-165-00	FILM 0.1uF 5% 50V	
C250	1-130-475-00	MYLAR 0.0022uF 5% 50V	
C251	1-136-153-00	FILM 0.01uF 5% 50V	
C252	1-136-155-00	FILM 0.015uF 5% 50V	
C253	1-136-165-00	FILM 0.1uF 5% 50V	
C258	1-130-471-00	MYLAR 0.001uF 5% 50V	
C259	1-136-171-00	FILM 0.33uF 5% 50V	
C260	1-136-165-00	FILM 0.1uF 5% 50V	
C900	1-126-964-11	ELECT 10uF 20% 50V	
C901	1-126-916-11	ELECT 1000uF 20% 6.3V	
C902	1-164-159-11	CERAMIC 0.1uF 50V	
C903	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C906	1-126-964-11	ELECT 10uF 20% 50V	
C907	1-126-964-11	ELECT 10uF 20% 50V	
C908	1-126-963-11	ELECT 4.7uF 20% 50V	
C909	1-128-551-11	ELECT 22uF 20% 63V	
C910	1-126-933-11	ELECT 100uF 20% 10V	
C912	1-126-964-11	ELECT 10uF 20% 50V	
C961	1-164-095-11	CERAMIC 0.01uF 10% 16V	
C962	1-164-095-11	CERAMIC 0.01uF 10% 16V	
C963	1-164-095-11	CERAMIC 0.01uF 10% 16V	
		< CONNECTOR >	
CN455	1-691-768-11	PLUG (MICRO CONNECTOR) 6P	
CN900	1-691-766-11	PLUG (MICRO CONNECTOR) 4P	
CN901	1-691-766-21	PLUG (MICRO CONNECTOR) 4P	
CN902	1-691-766-11	PLUG (MICRO CONNECTOR) 4P	
* CN903	1-564-527-11	PLUG, CONNECTOR	
* CNP900	1-568-318-21	PLUG, CONNECTOR 6P	
* CNP901	1-568-320-11	PLUG, CONNECTOR 8P	
CNP902	1-774-936-11	CONNECTOR, BOARD TO BOARD 12P	

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D902	8-719-987-63	DIODE 1N4148M	
D903	8-719-024-99	DIODE 11ES2-NTA2B	
D904	8-719-987-63	DIODE 1N4148M	
D905	8-719-987-63	DIODE 1N4148M	
D906	8-719-987-63	DIODE 1N4148M	
D907	8-719-987-63	DIODE 1N4148M	
D908	8-719-987-63	DIODE 1N4148M	
D910	8-719-987-63	DIODE 1N4148M	
D911	8-719-987-63	DIODE 1N4148M	
D912	8-719-987-63	DIODE 1N4148M	
D913	8-719-985-59	DIODE HZS4CLL-TA	
D914	8-719-987-63	DIODE 1N4148M	
D915	8-719-987-63	DIODE 1N4148M	
D916	8-719-987-63	DIODE 1N4148M	
D919	8-719-987-63	DIODE 1N4148M	
		< IC >	
IC901	8-759-962-08	IC BA6208	
IC902	8-759-392-41	IC TMP47C103N-JP47	
		< TRANSISTOR >	
Q900	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q901	8-729-900-63	TRANSISTOR DTA124ES	
Q902	8-729-900-63	TRANSISTOR DTA124ES	
Q903	8-729-900-80	TRANSISTOR DTC114ES	
Q904	8-729-422-57	TRANSISTOR UN4111	
Q905	8-729-422-57	TRANSISTOR UN4111	
Q906	8-729-422-57	TRANSISTOR UN4111	
Q907	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q908	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q909	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q910	8-729-201-53	TRANSISTOR 2SA1015-GR	
Q911	8-729-142-36	TRANSISTOR BN1L3Z	
Q920	8-729-422-57	TRANSISTOR UN4111	
Q921	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q922	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q923	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		< RESISTOR >	
R200	1-259-500-11	CARBON 1M 5% 1/6W	
R201	1-259-446-11	CARBON 5.6K 5% 1/6W	
R202	1-259-446-11	CARBON 5.6K 5% 1/6W	
R203	1-259-436-11	CARBON 2.2K 5% 1/6W	
R204	1-259-464-11	CARBON 33K 5% 1/6W	
R205	1-259-446-11	CARBON 5.6K 5% 1/6W	
R206	1-259-500-11	CARBON 1M 5% 1/6W	
R207	1-259-456-11	CARBON 15K 5% 1/6W	
R208	1-259-456-11	CARBON 15K 5% 1/6W	
R209	1-259-500-11	CARBON 1M 5% 1/6W	
R210	1-259-500-11	CARBON 1M 5% 1/6W	

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

PANEL	PRO IND	SP SW
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Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R220	1-259-464-11	CARBON	33K	5%	1/6W			< SWITCH >			
R250	1-259-500-11	CARBON	1M	5%	1/6W						
R251	1-259-446-11	CARBON	5.6K	5%	1/6W	S200	1-571-828-11	SWITCH, PUSH(1 KEY) (SOURCE DIRECT)			
R252	1-259-446-11	CARBON	5.6K	5%	1/6W	S201	1-762-387-11	SWITCH, PUSH (LOUDNESS)			
						S202	1-571-112-21	SWITCH, PUSH (1 KEY) (SUBSONIC)			
R253	1-259-436-11	CARBON	2.2K	5%	1/6W	S901	1-692-974-11	SWITCH, ROTARY (INPUT SELECTOR)			
R254	1-259-464-11	CARBON	33K	5%	1/6W			< VIBRATOR >			
R255	1-259-446-11	CARBON	5.6K	5%	1/6W						
R256	1-259-500-11	CARBON	1M	5%	1/6W						
R257	1-259-456-11	CARBON	15K	5%	1/6W	X900	1-577-358-21	VIBRATOR, CERAMIC (4.00MHz)			

R258	1-259-456-11	CARBON	15K	5%	1/6W	*	1-660-567-11	PRO IND BOARD			
R259	1-259-500-11	CARBON	1M	5%	1/6W			*****			
R260	1-259-500-11	CARBON	1M	5%	1/6W			< CONNECTOR >			
R270	1-259-464-11	CARBON	33K	5%	1/6W						
R419	1-249-429-11	CARBON	10K	5%	1/4W						
R902	1-249-429-11	CARBON	10K	5%	1/4W						
R903	1-249-429-11	CARBON	10K	5%	1/4W	CN951	1-691-766-21	PLUG (MICRO CONNECTOR) 4P			
R905	1-249-429-11	CARBON	10K	5%	1/4W						
R908	1-249-429-11	CARBON	10K	5%	1/4W			< DIODE >			
R909	1-249-429-11	CARBON	10K	5%	1/4W						
						D900	8-719-313-48	DIODE SEL6210S-TH12 (PROTECTION)			
R910	1-249-400-11	CARBON	39	5%	1/4W						
R911	1-249-411-11	CARBON	330	5%	1/4W			< IC >			
R912	1-249-429-11	CARBON	10K	5%	1/4W						
R913	1-249-425-11	CARBON	4.7K	5%	1/4W	IC900	8-759-373-49	IC NJL54H400			
R914	1-247-807-31	CARBON	100	5%	1/4W						
								< RESISTOR >			
R917	1-249-433-11	CARBON	22K	5%	1/4W						
R918	1-249-423-11	CARBON	3.3K	5%	1/4W	R900	1-249-409-11	CARBON 220 5% 1/4W			
R919	1-249-423-11	CARBON	3.3K	5%	1/4W						
R920	1-249-429-11	CARBON	10K	5%	1/4W	*****					
R921	1-249-429-11	CARBON	10K	5%	1/4W	*	1-660-564-11	SP SW BOARD			

R922	1-249-429-11	CARBON	10K	5%	1/4W						
R923	1-249-429-11	CARBON	10K	5%	1/4W			< CONNECTOR >			
R924	1-249-429-11	CARBON	10K	5%	1/4W						
R927	1-249-406-11	CARBON	120	5%	1/4W						
R941	1-249-423-11	CARBON	3.3K	5%	1/4W	CN552	1-691-771-11	PLUG (MICRO CONNECTOR) 9P			
						CN950	1-691-766-11	PLUG (MICRO CONNECTOR) 4P			
R942	1-247-756-11	CARBON	2.2K	5%	1/2W	CN960	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
R943	1-247-756-11	CARBON	2.2K	5%	1/2W						
R944	1-249-423-11	CARBON	3.3K	5%	1/4W			< DIODE >			
R950	1-249-419-11	CARBON	1.5K	5%	1/4W						
R951	1-247-807-31	CARBON	100	5%	1/4W	D701	8-719-987-63	DIODE 1N4148M			
R952	1-249-427-11	CARBON	6.8K	5%	1/4W			< RESISTOR >			
R953	1-247-903-00	CARBON	1M	5%	1/4W						
R954	1-249-425-11	CARBON	4.7K	5%	1/4W	R928	1-247-751-11	CARBON 820 5% 1/2W			
R958	1-249-406-11	CARBON	120	5%	1/4W	R929	1-247-751-11	CARBON 820 5% 1/2W			
R959	1-249-429-11	CARBON	10K	5%	1/4W	R930	1-247-751-11	CARBON 820 5% 1/2W			
						R931	1-247-751-11	CARBON 820 5% 1/2W			
R960	1-249-429-11	CARBON	10K	5%	1/4W	R932	1-247-751-11	CARBON 820 5% 1/2W			
R961	1-249-429-11	CARBON	10K	5%	1/4W						
R962	1-249-429-11	CARBON	10K	5%	1/4W	R933	1-247-751-11	CARBON 820 5% 1/2W			
						R934	1-247-746-11	CARBON 390 5% 1/2W			
< VARIABLE RESISTOR >						R935	1-247-746-11	CARBON 390 5% 1/2W			
RV200	1-223-933-21	RES, VAR, CARBON 250K/250K (BALANCE)									
RV201	1-223-934-21	RES, VAR, CARBON 250K/250K (TREBLE)									
RV202	1-223-935-21	RES, VAR, CARBON 900K/900K (BASS)									
						R936	1-247-746-11	CARBON 390 5% 1/2W			
						R937	1-247-746-11	CARBON 390 5% 1/2W			
						R938	1-247-753-11	CARBON 1.2K 5% 1/2W			

SP SW

SP TM

TRANS

VOL

Ref. No.	Part No.	Description			Remark
R939	1-247-753-11	CARBON	1.2K	5%	1/2W
		< RELAY >			
RY701	1-515-614-11	RELAY			
		< SWITCH >			
S900	1-762-654-11	SWITCH, ROTARY SLIDE (SPEAKERS)			

*	1-660-571-11	SP TM BOARD			

	1-533-233-11	HOLDER, FUSE			
		< CAPACITOR >			
C501	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN503	1-566-212-11	PIN, CONNECTOR 3P			
CN802	1-564-321-00	PIN, CONNECTOR 2P			
CN804	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P			
* CN808	1-564-321-21	PIN, CONNECTOR 2P			
* CN809	1-565-792-11	PIN, CONNECTOR 2P			
		< DIODE >			
D501	8-719-987-63	DIODE 1N4148M			
D502	8-719-987-63	DIODE 1N4148M			
		< FUSE >			
△ F801	1-532-388-51	FUSE,TIMELAG (2.0A 250V)			
△ F802	1-532-464-51	FUSE,TIMELAG (2.5A 250V)			
		< COIL >			
L501	1-411-906-11	COIL, AIR-CORE			
L551	1-411-906-11	COIL, AIR-CORE			
		< RESISTOR >			
R501	1-249-162-11	CARBON	10	5%	1/3W
R502	1-247-750-11	CARBON	680	5%	1/2W
R551	1-249-162-11	CARBON	10	5%	1/3W
R552	1-247-750-11	CARBON	680	5%	1/2W
		< RELAY >			
RY501	1-515-921-11	RELAY (12V)			
RY502	1-515-921-11	RELAY (12V)			
		< TERMINAL >			
* TM501	1-537-519-11	TERMINAL BOARD (SP) (SPEAKERS)			

Ref. No.	Part No.	Description	Remark		
*	1-660-574-11	TRANS BOARD			

		< TRANSFORMER >			
△ T1	1-429-492-11	TRANSFORMER,POWER			

*	1-660-565-11	VOL BOARD			

		< CAPACITOR >			
C904	1-136-165-00	FILM	0.1uF	5%	50V
		< CONNECTOR >			
CN201	1-691-770-11	PLUG (MICRO CONNECTOR) 8P			
CNJ900	1-568-317-11	SOCKET, CONNECTOR 6P			
CNJ901	1-568-319-11	SOCKET, CONNECTOR 8P			
		< TRANSISTOR >			
Q950	8-729-141-26	TRANSISTOR 2SC3622A-LK			
Q951	8-729-141-26	TRANSISTOR 2SC3622A-LK			
		< RESISTOR >			
R955	1-249-427-11	CARBON	6.8K	5%	1/4W
R956	1-249-427-11	CARBON	6.8K	5%	1/4W
		< VARIABLE RESISTOR >			
RV203	1-225-227-11	RES, VAR, CARBON 120K/120K (VOLUME)			

		MISCELLANEOUS			

△ CNJ801	1-526-794-11	OUTLET, AC (AC OUTLET SWITCHED 100W MAX)			
△ CNJ802	1-526-794-11	OUTLET, AC (AC OUTLET SWITCHED 100W MAX)			
△ CNJ803	1-526-794-11	OUTLET, AC (AC OUTLET SWITCHED 100W MAX)			
△ CNP801	1-777-185-11	CORD, POWER			
△ F801	1-532-388-51	FUSE, TIME LAG (2.0A 250V)			
△ F802	1-532-464-51	FUSE, TIME LAG (2.5A 250V)			
Q403	8-729-232-45	TRANSISTOR 2SK1529-Y			
Q404	8-729-232-46	TRANSISTOR 2SJ200-Y			
Q453	8-729-232-45	TRANSISTOR 2SK1529-Y			
Q454	8-729-232-46	TRANSISTOR 2SJ200-Y			
Q406B	8-729-209-15	TRANSISTOR 2SD2012			
△ S1	1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY)(POWER)			
△ T1	1-429-492-11	TRANSFORMER, POWER			

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

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
		ACCESSORIES & PACKING MATERIALS	

	1-473-656-11	REMOTE COMMANDER (RM-S316)	
	3-856-216-11	MANUAL, INSTRUCTION	
		(ENGLISH,FRENCE,SPANISH,PORTUGUESE) (AEP)	
	3-856-216-21	MANUAL, INSTRUCTION	
		(GERMAN,DUTCH,SWEDISH,ITALIAN) (AEP)	
	3-856-216-31	MANUAL, INSTRUCTION (GERMAN) (G)	
*	4-981-575-01	CUSHION	
	4-981-643-01	COVER, BATTERY (For RM-S316)	
*	4-982-294-01	INDIVIDUAL CARTON	