

TA-FE700R/FE900R

SERVICE MANUAL

AEP Model



Photo : TA-FE700R

SPECIFICATIONS

Amplifier section

DIN power output

TA-FE900R: 100 W + 100 W (4 ohms at 1 kHz)
70 W + 70 W (8 ohms at 1 kHz)
TA-FE700R: 90 W + 90 W (4 ohms at 1 kHz)
60 W + 60 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
94 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

TA-FE900R: 220 W
TA-FE700R: 200 W

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

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

Mass (approx.)

TA-FE900R: 7.0 kg
TA-FE700R: 6.8 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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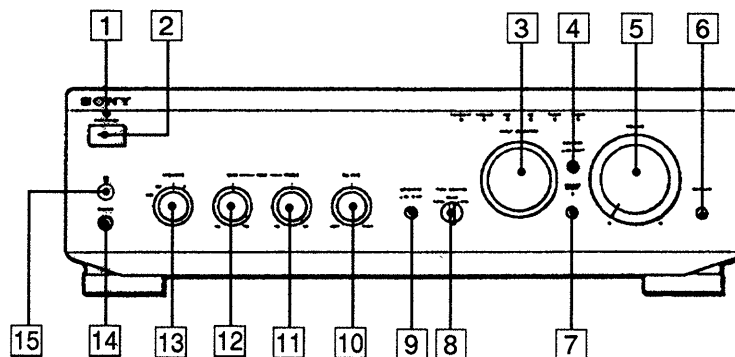
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  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.

SECTION 1 GENERAL

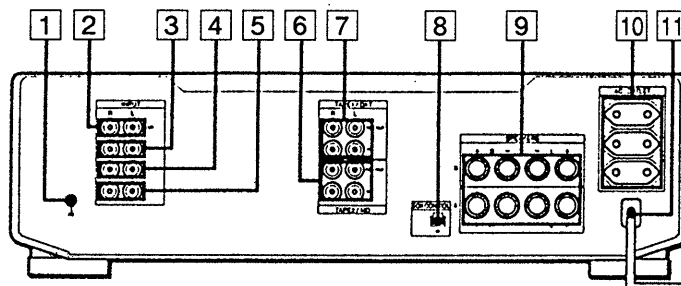
IDENTIFYING THE PARTS AND CONTROLS

Front Panel



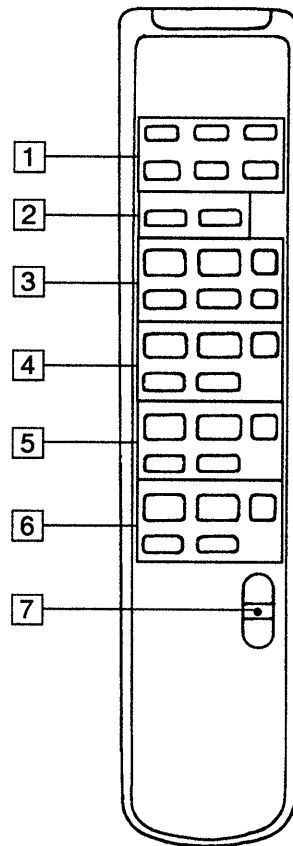
- | | |
|--------------------------------------|--------------------------|
| 1 PROTECTION indicator | 9 LOUDNESS switch |
| 2 POWER switch | 10 BALANCE control |
| 3 INPUT SELECTOR and indicators | 11 TREBLE control |
| 4 SUBSONIC switch | 12 BASS control |
| 5 VOLUME control | 13 SPEAKERS switch |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

Rear Panel



- | | |
|-------------|------------------|
| 1 ⚡ (earth) | 7 TAPE1/DAT |
| 2 AUX | 8 EON CONTROL IN |
| 3 CD | 9 SPEAKER A/B |
| 4 TUNER | 10 AC OUTLET |
| 5 PHONO | 11 Mains lead |
| 6 TAPE2/MD | |

Remote (RM-S316)



- 1 FUNCTION buttons
- 2 PRESET +, - buttons
- 3 CD control buttons
- 4 MD control buttons
- 5 TAPE DECK A control buttons
- 6 TAPE DECK B control buttons
- 7 VOL +, - buttons

SECTION 2 ELECTRICAL ADJUSTMENTS

Note :

1. DC BIAS adjustments should be made 30 seconds after the POWER switch is turned on (POWER ON).
2. After replacing the power transistors, DC BIAS adjustments should be made.

DC Bias Adjustment (with no signal input)

Setting :

Volume ... minimum

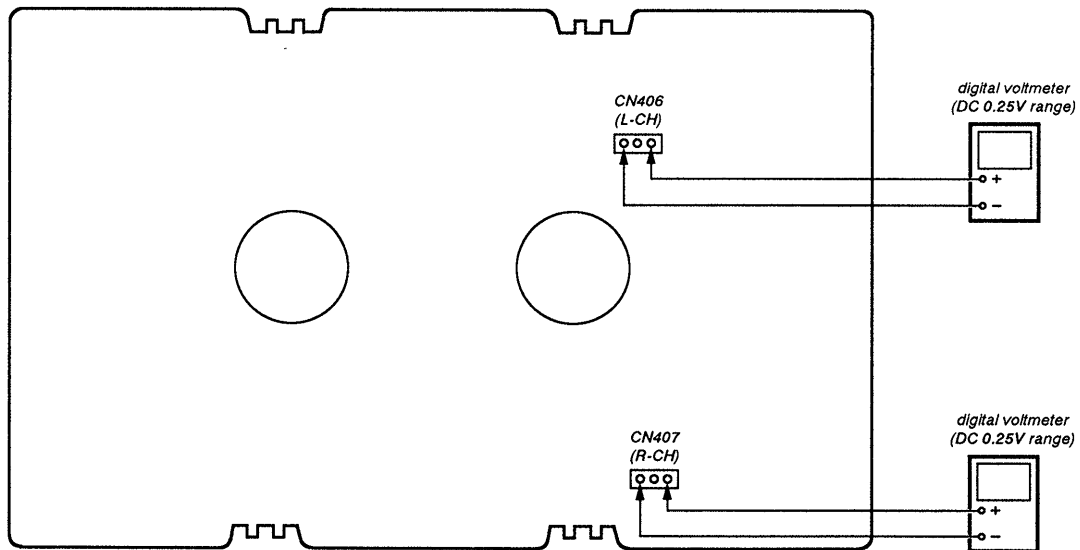
Procedure :

Adjust RV301 (L-ch) and RV351 (R-ch) so that the voltages across CN406 and CN407 become within the adjustment values.

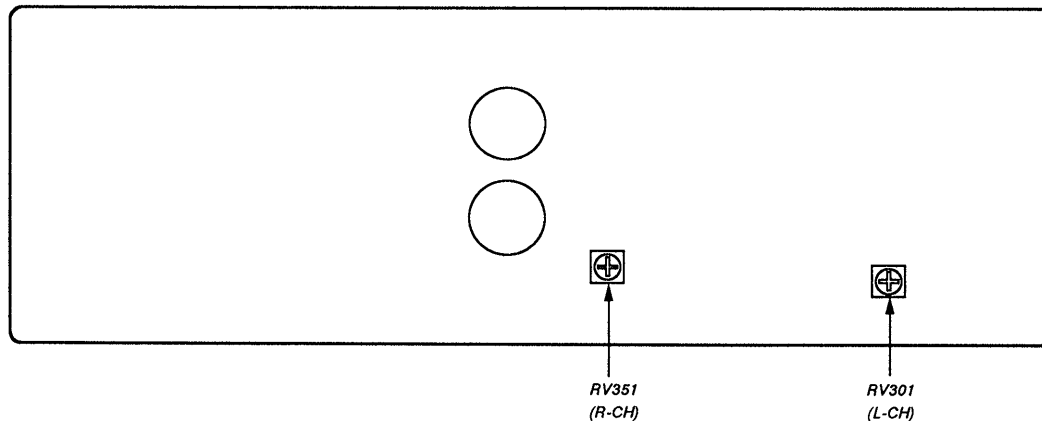
Adjustment Value : $10\text{mV} \pm 2\text{mV}$

Adjustment Location :

[MAIN (B) BOARD] — Component side —



[MAIN (A) BOARD] — Component side —



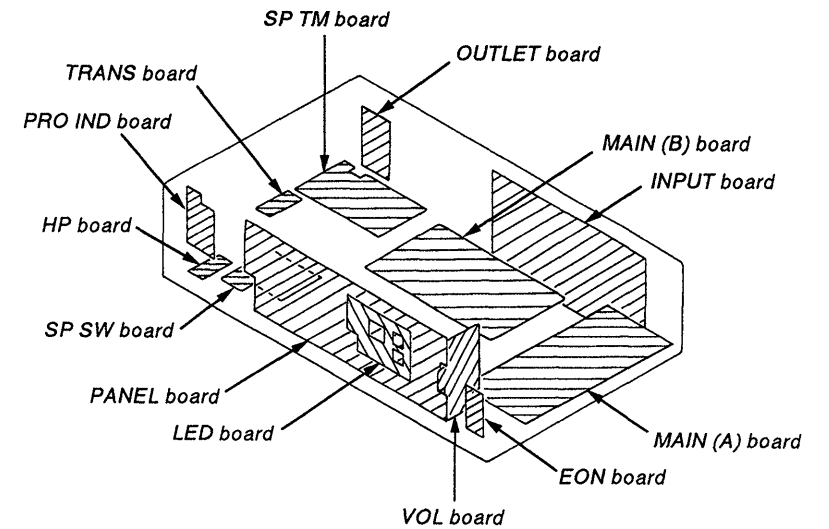
SECTION 3 EXPLANATION OF IC TERMINALS

IC902 TMP47C103N-JP47

Pin No.	Pin name	I/O	Description
1	XOUT	—	System clock. (4MHz)
2	XIN	—	System clock. (4MHz)
3	RESET	I	Reset signal input terminal.
4	PMD	—	Not used. (Ground connection)
5	VOL +	O	Volume motor control terminal.
6	VOL —	O	Volume motor control terminal.
7	SW0	I	Relative position detection signal of rotary switch.
8	SW1	I	Relative position detection signal of rotary switch.
9	SW2	I	Relative position detection signal of rotary switch.
10	EON	I	EON signal input terminal.
11	PHONO	O	Function LED drive signal.
12	TUENR	O	Function LED drive signal.
13	CD	O	Function LED drive signal.
14	GND	—	Ground.
15	AUX	O	Function LED drive signal.
16	MD/DAT	O	Function LED drive signal.
17	TAPE	O	Function LED drive signal.
18	MON	—	Not used. (Ground connection)
19	PRY	I	EON control signal input.
20	PKY	—	Not used. (Ground connection)
21	MOI	—	Not used. (Ground connection)
22	SIRCS	I	SIRCS signal input terminal.
23	MUTE	—	Not used. (Ground connection)
24	SCE	—	Not used. (Ground connection)
25	SDT	—	Not used. (Ground connection)
26	SCK	—	Not used. (Ground connection)
27	STOP	I	Power ON/OFF input.
28	+3V	—	Power supply (+3V) terminal.

SECTION 4 DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION



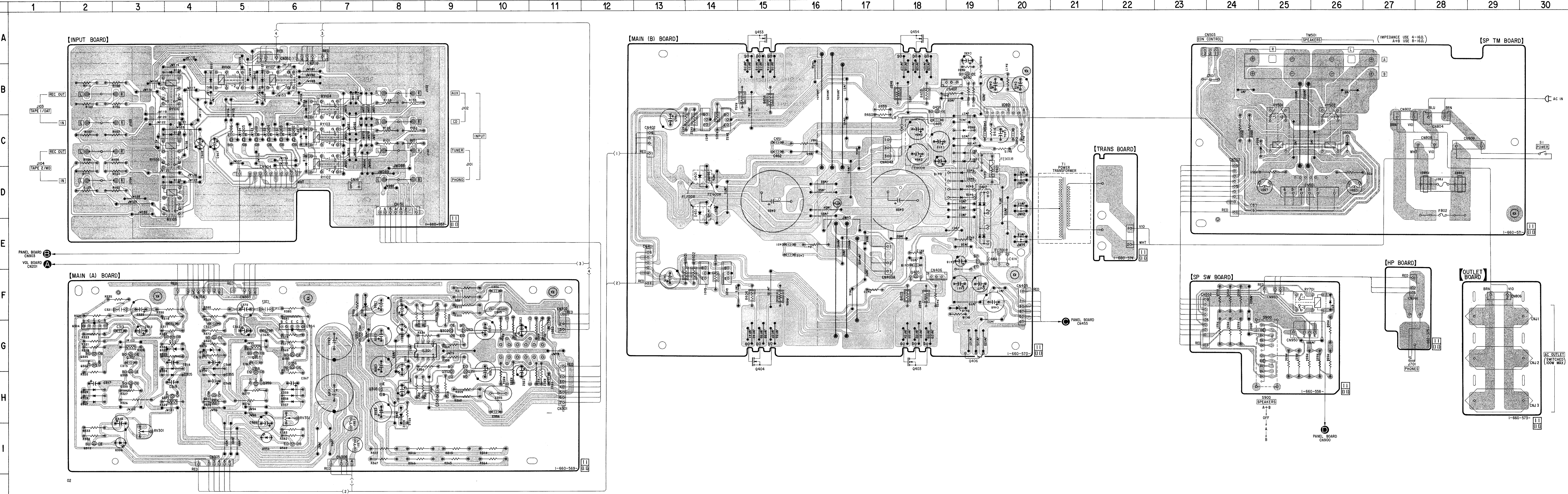
4-2. PRINTED WIRING BOARDS - MAIN SECTION

● SEMICONDUCTOR LOCATION

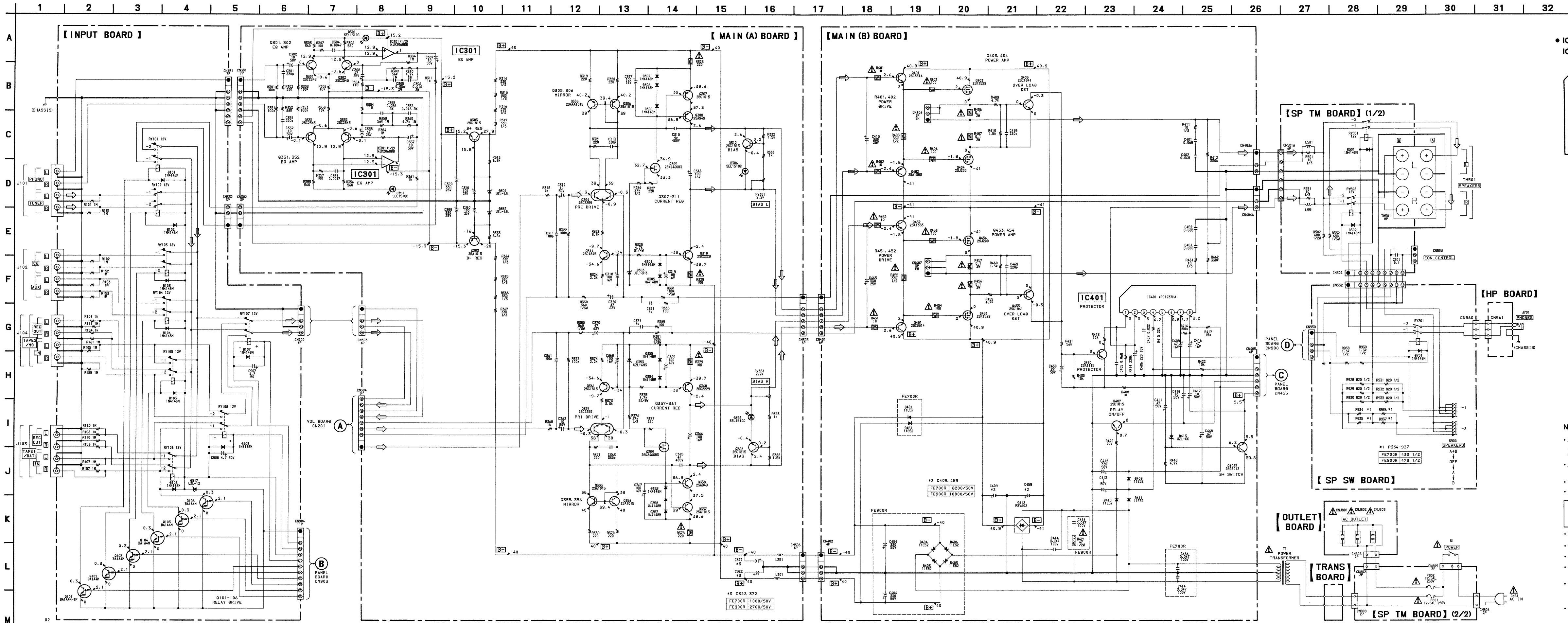
Ref. No.	Location	Ref. No.	Location
D101	B-4	Q101	C-5
D102	C-6	Q102	C-6
D103	C-6	Q103	C-6
D104	B-6	Q104	C-5
D105	D-4	Q105	C-5
D106	B-4	Q106	C-5
D107	B-5	Q301	G-9
D108	C-4	Q302	G-9
D301	G-8	Q303	H-8
D302	H-8	Q304	G-2
D303	G-4	Q305	G-2
D304	G-4	Q306	G-2
D305	H-4	Q307	G-3
D306	I-3	Q308	H-3
D307	H-2	Q309	H-3
D308	H-2	Q310	H-4
D309	H-2	Q311	G-4
D351	G-8	Q312	I-2
D352	F-7	Q351	G-9
D353	G-4	Q352	G-9
D354	G-4	Q353	G-7
D355	H-5	Q354	G-6
D356	I-5	Q355	G-6
D357	H-6	Q356	G-6
D358	H-6	Q357	G-5
D359	H-6	Q358	G-5
D401	D-14	Q359	H-5
D403	D-19	Q360	H-4
D404	D-19	Q361	G-4
D405	D-19	Q362	I-6
D406	D-19	Q401	F-14
D409	C-19	Q402	F-14
D410	C-19	Q403	G-18
D411	C-19	Q404	G-15
D412	D-19	Q405	F-18
D413	F-19	Q406	G-19
D451	D-14	Q407	E-19
D501	C-25	Q430	B-19
D502	C-26	Q451	C-14
D701	F-26	Q452	C-14
D917	C-6	Q453	A-15
		Q454	A-18
		Q455	B-18
IC301	G-8		
IC401	B-20		

Note:

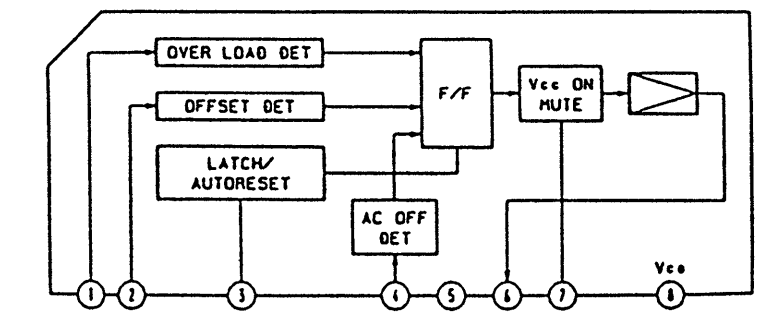
- — : parts extracted from the component side.
- ▨ : Pattern on the side which is seen.



4-3. SCHEMATIC DIAGRAM - MAIN SECTION -



• IC BLOCK DIAGRAM - MAIN SECTION -
IC401 μ PC1237HA

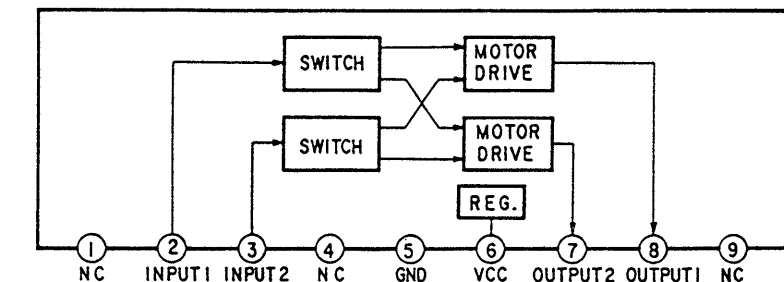


- Note :
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
 - : nonflammable resistor.
 - : fusible resistor.
- Note : The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.
- : B+ Line
 - : B- Line
 - : adjustment for repair.
- Voltage is dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.

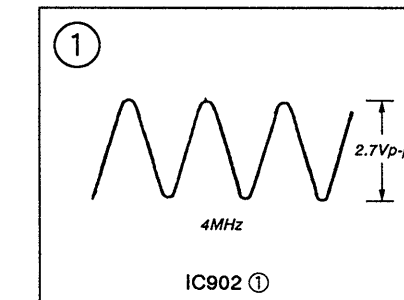
Note:

- — : parts extracted from the component side.
- ▒ : Pattern on the side which is seen.





- **WAVEFORM**



Note :

- All capacitors are in μF unless otherwise noted. pF: μF 50VW or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- Δ : internal component.
- **B+** : B+ Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M 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.

SECTION 5 EXPLODED VIEWS

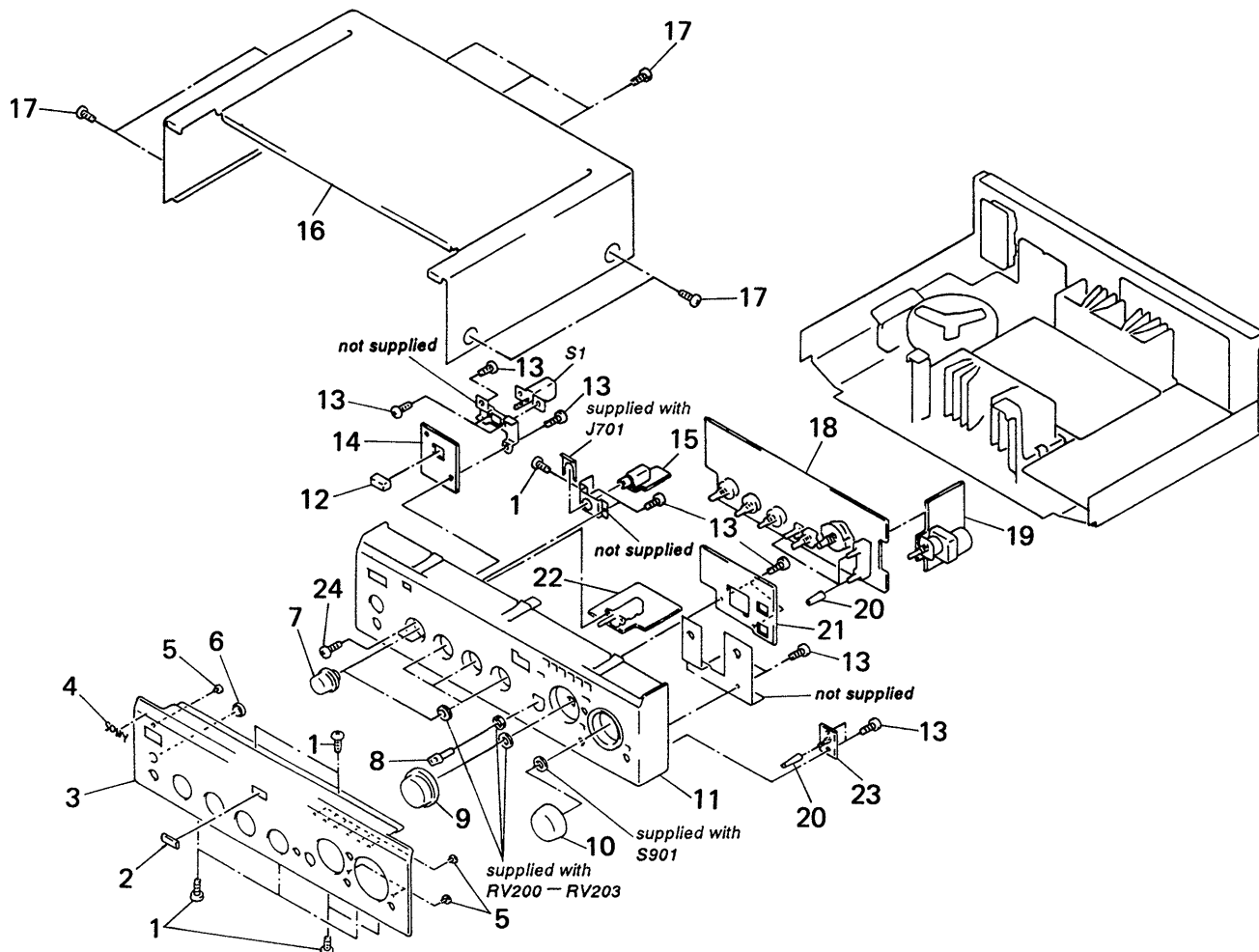
NOTE :

- -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.

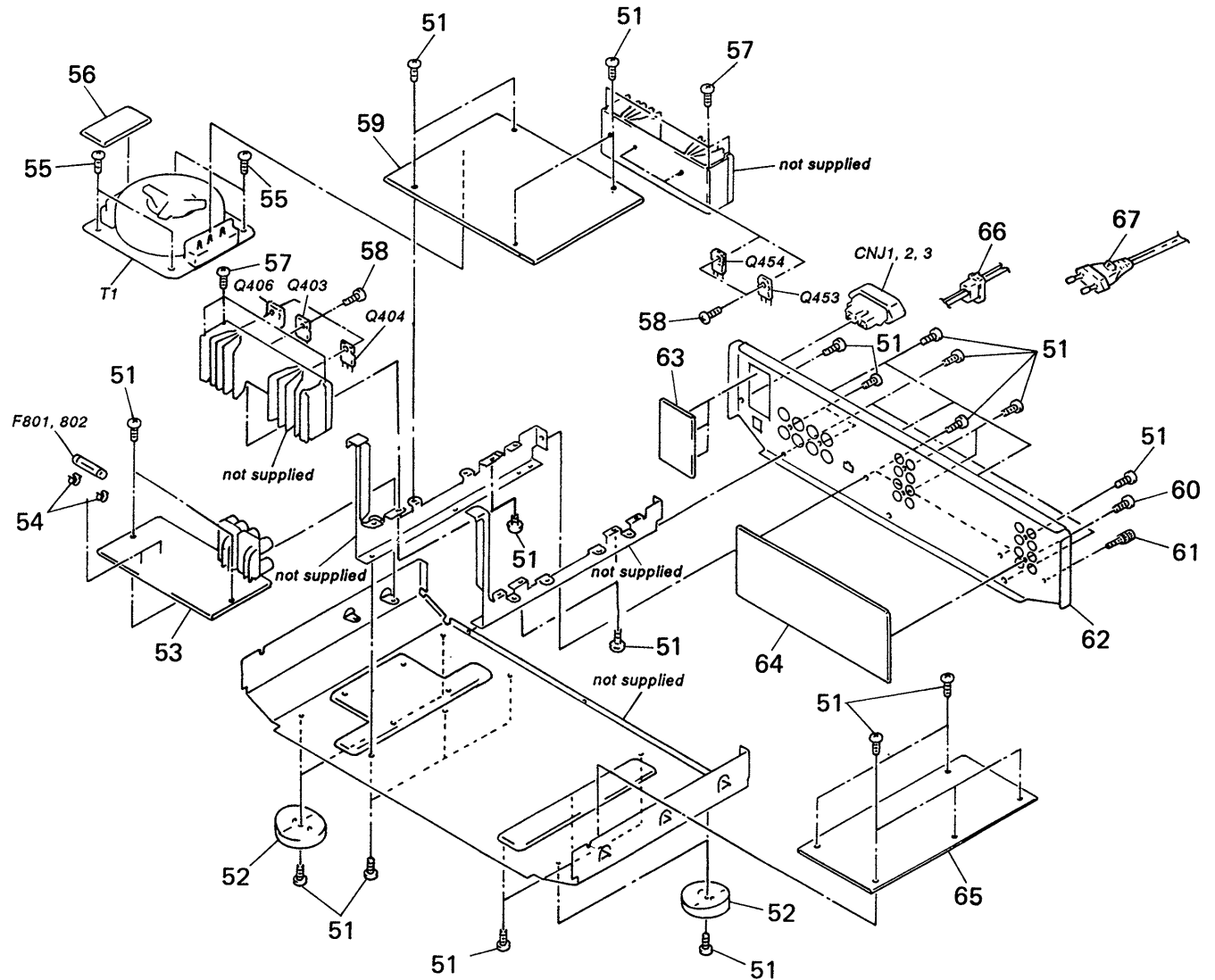
The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

5-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-967-961-01	SCREW (3X8)		* 14	1-660-561-11	PRO IND BOARD	
2	4-965-651-01	EMBLEM (MOS)		* 15	1-662-375-11	HP BOARD	
3	4-980-766-01	PANEL, FRONT (FE900R)		16	4-979-945-41	CASE (412032) (FE700R)	
3	4-980-766-11	PANEL, FRONT (FE700R)		16	4-983-899-11	CASE (FE900R)	
4	4-979-587-01	EMBLEM, SONY		17	3-704-366-01	SCREW (CASE) (M3X8)	
5	4-980-775-01	LENS, LED		* 18	A-4389-812-A	PANEL BOARD, COMPLETE	
6	4-980-776-01	WINDOW, REMOTE CONTROL		* 19	1-660-559-11	VOL BOARD	
7	4-980-204-01	KNOB (DIA. 24)		20	4-980-773-01	BUTTON (DIA. 6)	
8	4-980-774-01	KNOB (DIA. 11)		* 21	1-660-556-11	LED BOARD	
9	4-980-771-01	KNOB (DIA. 47)		* 22	1-660-558-11	SP SW BOARD	
10	X-4946-920-1	KNOB (VOL) ASSY		* 23	1-660-560-11	EON BOARD	
11	X-4946-916-1	PANEL ASSY, BASE		24	7-682-548-04	SCREW +BVTT 3X8 (S)	
12	4-980-199-01	BUTTON (POWER)		Δ S1	1-554-920-11	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)	
13	4-951-620-01	SCREW (2.6X8), +BVTP					

5-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-967-961-01	SCREW (3X8)		* 65	A-4389-802-A	MAIN (A) BOARD, COMPLETE (FE700R)	
52	X-4947-025-1	FOOT ASSY		* 65	A-4389-806-A	MAIN (A) BOARD, COMPLETE (FE900R)	
* 53	1-660-571-11	SP TM BOARD		* 66	3-703-244-00	BUSHING (2104), CORD	
54	1-533-233-11	HOLDER, FUSE		△ 67	1-777-185-11	CORD, POWER	
55	4-967-960-01	SCREW (4X8)		△ CNJ1	1-526-794-11	OUTLET, AC (AC OUTLET)	
* 56	1-660-574-11	TRANS BOARD		△ CNJ2	1-526-794-11	OUTLET, AC (AC OUTLET)	
57	4-981-016-11	SCREW (H) (FE700R)		△ CNJ3	1-526-794-11	OUTLET, AC (AC OUTLET)	
57	4-981-016-21	SCREW (H) (FE900R)		△ F801	1-532-464-51	FUSE, TIME LUG(T2.5AL/250V)	
58	3-905-609-11	SCREW (TRANSISTOR)		△ F802	1-532-464-51	FUSE, TIME LUG(T2.5AL/250V)	
* 59	A-4389-803-A	MAIN (B) BOARD, COMPLETE (FE700R)		Q403	8-729-232-45	TRANSISTOR 2SK1529-Y	
* 59	A-4389-807-A	MAIN (B) BOARD, COMPLETE (FE900R)		Q404	8-729-232-46	TRANSISTOR 2SJ200-Y	
60	3-704-515-41	SCREW (BV/RING)		Q406	8-729-209-15	TRANSISTOR 2SD2012	
61	4-947-010-01	SCREW, FEEDER FIXED		Q453	8-729-232-45	TRANSISTOR 2SK1529-Y	
* 62	4-980-768-11	PANEL, BACK (FE700R)		Q454	8-729-232-46	TRANSISTOR 2SJ200-Y	
* 62	4-982-977-01	PANEL, BACK (FE900R)		△ T1	1-429-490-11	TRANSFORMER, POWER (FE900R)	
* 63	1-660-573-11	OUTLET BOARD		△ T1	1-429-491-11	TRANSFORMER, POWER (FE700R)	
* 64	1-660-557-11	INPUT BOARD					

SECTION 6
ELECTRICAL PARTS LIST

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -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

● Abbreviation

G : German

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
*	1-660-560-11	EON BOARD *****		CN904	1-691-773-11	PLUG (MICRO CONNECTOR) 11P	
		< CONNECTOR >				< DIODE >	
CN952	1-691-766-11	PLUG (MICRO CONNECTOR) 4P		D101	8-719-987-63	DIODE 1N4148M	
		< DIODE >		D102	8-719-987-63	DIODE 1N4148M	
D901	8-719-313-72	LED SEL3810A-CD (EON LINK)		D103	8-719-987-63	DIODE 1N4148M	
		< RESISTOR >		D104	8-719-987-63	DIODE 1N4148M	
R901	1-249-393-11	CARBON 10 5% 1/4W		D105	8-719-987-63	DIODE 1N4148M	
		< SWITCH >		D106	8-719-987-63	DIODE 1N4148M	
S902	1-571-112-21	SWITCH, PUSH (1 KEY) (EON LINK)		D107	8-719-987-63	DIODE 1N4148M	
*****		*****		D108	8-719-987-63	DIODE 1N4148M	
*	1-662-375-11	HP BOARD *****		D917	8-719-001-76	DIODE UZL-12M3	
		< CONNECTOR >				< JACK >	
CN961	1-691-765-11	PLUG (MICRO CONNECTOR) 3P		* J101	1-573-142-11	JACK, PIN 4P (TUNER/PHONE)	
		< JACK >		* J102	1-573-142-21	JACK, PIN 4P (AUX, CD)	
J701	1-750-735-11	JACK (LARGE TYPE)(PHONES)		* J103	1-573-142-21	JACK, PIN 4P (TAPE 1/DAT)	
*****		*****		* J104	1-573-142-21	JACK, PIN 4P (TAPE 2/MD)	
*	1-660-557-11	INPUT BOARD *****				< TRANSISTOR >	
		< CAPACITOR >		Q101	8-729-900-80	TRANSISTOR DTC114ES	
C907	1-126-963-11	ELECT 4.7uF 20% 50V		Q102	8-729-900-80	TRANSISTOR DTC114ES	
C908	1-126-963-11	ELECT 4.7uF 20% 50V		Q103	8-729-900-80	TRANSISTOR DTC114ES	
		< CONNECTOR >		Q104	8-729-900-80	TRANSISTOR DTC114ES	
CN16	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P		Q105	8-729-900-80	TRANSISTOR DTC114ES	
CN200	1-691-766-11	PLUG (MICRO CONNECTOR) 4P		Q106	8-729-900-80	TRANSISTOR DTC114ES	
						< RESISTOR >	
				R101	1-249-995-11	CARBON 1M 5% 1/4W	
				R102	1-249-995-11	CARBON 1M 5% 1/4W	
				R103	1-249-995-11	CARBON 1M 5% 1/4W	
				R104	1-247-713-11	CARBON 1K 5% 1/4W	
				R105	1-249-995-11	CARBON 1M 5% 1/4W	
				R106	1-247-713-11	CARBON 1K 5% 1/4W	
				R107	1-249-995-11	CARBON 1M 5% 1/4W	
				R110	1-249-995-11	CARBON 1M 5% 1/4W	
				R111	1-249-995-11	CARBON 1M 5% 1/4W	

Ref. No.	Part No.	Description			Remark
R151	1-249-995-11	CARBON	1M	5%	1/4W
R152	1-249-995-11	CARBON	1M	5%	1/4W
R153	1-249-995-11	CARBON	1M	5%	1/4W
R154	1-247-713-11	CARBON	1K	5%	1/4W
R155	1-249-995-11	CARBON	1M	5%	1/4W
R156	1-247-713-11	CARBON	1K	5%	1/4W
R157	1-249-995-11	CARBON	1M	5%	1/4W
R160	1-249-995-11	CARBON	1M	5%	1/4W
R161	1-249-995-11	CARBON	1M	5%	1/4W
< 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			
RY106	1-515-614-11	RELAY			
RY107	1-515-614-11	RELAY			
RY108	1-515-614-11	RELAY			

*	1-660-556-11	LED BOARD			

< CONNECTOR >					
CNJ902	1-766-796-11	CONNECTOR, BOARD TO BOARD 12P			
< DIODE >					
D600	8-719-313-72	LED SEL3810A-CD (SOURCE DIRECT)			
D601	8-719-313-72	LED SEL3810A-CD (TAPE 1/DAT)			
D602	8-719-313-72	LED SEL3810A-CD (TAPE 2/MD)			
D603	8-719-313-72	LED SEL3810A-CD (AUX)			
D604	8-719-313-72	LED SEL3810A-CD (CD)			
D605	8-719-313-72	LED SEL3810A-CD (TUNER)			
D606	8-719-313-72	LED SEL3810A-CD (PHONO)			
< RESISTOR >					
R926	1-247-751-11	CARBON	820	5%	1/2W

*	A-4389-802-A	MAIN (A) BOARD, COMPLETE (FE700R)			
*	A-4389-806-A	MAIN (A) BOARD, COMPLETE (FE900R)			

< 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
					(FE700R)
C305	1-130-341-00	FILM	0.056uF	3%	100V
					(FE900R)

Ref. No.	Part No.	Description			Remark
C306	1-137-471-11	FILM	0.016uF	5%	50V
					(FE700R)
C306	1-130-971-00	FILM	0.016uF	3%	100V
					(FE900R)
C307	1-126-059-11	ELECT	10uF	20%	50V
C308	1-126-022-11	ELECT	47uF	20%	25V
C309	1-126-025-11	ELECT	330uF	20%	25V
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
					(FE700R)
C313	1-104-290-11	POLYSTYRENE	330PF	5%	50V
					(FE900R)
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
					(FE700R)
C321	1-113-496-11	POLYSTYRENE	4PF	10%	50V
					(FE900R)
C322	1-126-056-11	ELECT	1000uF	20%	50V
					(FE700R)
C322	1-109-871-11	ELECT	2700uF	20%	50V
					(FE900R)
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
C355	1-136-162-00	FILM	0.056uF	5%	50V
					(FE700R)
C355	1-130-341-00	FILM	0.056uF	3%	100V
					(FE900R)
C356	1-137-471-11	FILM	0.016uF	5%	50V
					(FE700R)
C356	1-130-971-00	FILM	0.016uF	3%	100V
					(FE900R)
C357	1-126-059-11	ELECT	10uF	20%	50V
C358	1-126-022-11	ELECT	47uF	20%	25V
C359	1-126-025-11	ELECT	330uF	20%	25V
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
					(FE700R)
C363	1-104-290-11	POLYSTYRENE	330PF	5%	50V
					(FE900R)
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

MAIN (A)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C370	1-110-392-11	ELECT	47uF 20% 63V	Q311	8-729-281-54	TRANSISTOR 2SC1815-BL	
C371	1-164-040-11	CERAMIC	4PF 0.25PF 50V (FE700R)	Q312	8-729-281-54	TRANSISTOR 2SC1815-BL	
C371	1-113-496-11	POLYSTYRENE	4PF 10% 50V (FE900R)	Q351	8-729-354-52	TRANSISTOR 2SC2545	
C372	1-126-056-11	ELECT	1000uF 20% 50V (FE700R)	Q352	8-729-354-52	TRANSISTOR 2SC2545	
C372	1-109-871-11	ELECT	2700uF 20% 50V (FE900R)	Q353	8-729-201-53	TRANSISTOR 2SA1015-GR	
< CONNECTOR >				Q354	8-729-620-17	TRANSISTOR 2SC2259-FG	
CN301	1-691-769-11	PLUG (MICRO CONNECTOR) 7P		Q355	8-729-201-53	TRANSISTOR 2SA1015-GR	
CN302	1-691-765-11	PLUG (MICRO CONNECTOR) 3P		Q356	8-729-201-53	TRANSISTOR 2SA1015-GR	
< DIODE >				Q357	8-729-201-53	TRANSISTOR 2SA1015-GR	
D301	8-719-310-60	LED SEL1510C-C		Q358	8-729-021-74	TRANSISTOR 2SA949-OY-TPE6	
D302	8-719-933-88	DIODE HZS16-2L		Q359	8-729-202-67	TRANSISTOR 2SK246-GR3	
D303	8-719-933-41	DIODE HZS6C3L		Q360	8-729-021-73	TRANSISTOR 2SC2229-OY-TPE6	
D304	8-719-987-63	DIODE 1N4148M		Q361	8-729-281-54	TRANSISTOR 2SC1815-BL	
D305	8-719-987-63	DIODE 1N4148M		Q362	8-729-281-54	TRANSISTOR 2SC1815-BL	
D306	8-719-310-60	LED SEL1510C-C		< RESISTOR >			
D307	8-719-987-63	DIODE 1N4148M		R301	1-259-215-21	CARBON 100K 5% 1/4W	
D308	8-719-987-63	DIODE 1N4148M		R302	1-249-911-11	CARBON 330 5% 1/4W	
D309	8-719-987-63	DIODE 1N4148M		R303	1-259-215-21	CARBON 100K 5% 1/4W	
D351	8-719-310-60	LED SEL1510C-C		R304	1-249-900-11	CARBON 110 1% 1/4W	
D352	8-719-933-88	DIODE HZS16-2L		R305	1-259-161-21	CARBON 560 5% 1/4W	
D353	8-719-933-41	DIODE HZS6C3L		R306	1-259-161-21	CARBON 560 5% 1/4W	
D354	8-719-987-63	DIODE 1N4148M		R307	1-259-143-21	CARBON 100 5% 1/4W	
D355	8-719-987-63	DIODE 1N4148M		R308	1-259-191-21	CARBON 10K 5% 1/4W	
D356	8-719-310-60	LED SEL1510C-C		R309	1-249-844-11	CARBON 56K 1% 1/2W	
D357	8-719-987-63	DIODE 1N4148M		R310	1-249-818-11	CARBON 4.7K 1% 1/2W	
D358	8-719-987-63	DIODE 1N4148M		R311	1-259-167-21	CARBON 1K 5% 1/4W	
D359	8-719-987-63	DIODE 1N4148M		R313	1-249-943-11	CARBON 6.8K 5% 1/4W	
< IC >				R314	1-249-198-11	CARBON 330 5% 1/3W	
IC301	8-759-701-25	IC NJM2068D-D		R315	1-249-198-11	CARBON 330 5% 1/3W	
< COIL >				R316	1-249-198-11	CARBON 330 5% 1/3W	
L301	1-411-925-11	COIL, AIR-CORE		R317	1-249-198-11	CARBON 330 5% 1/3W	
L351	1-411-925-11	COIL, AIR-CORE		R318	1-259-167-21	CARBON 1K 5% 1/4W	
< TRANSISTOR >				R319	1-259-151-21	CARBON 220 5% 1/4W	
Q301	8-729-354-52	TRANSISTOR 2SC2545		R320	1-259-151-21	CARBON 220 5% 1/4W	
Q302	8-729-354-52	TRANSISTOR 2SC2545		R321	1-259-151-21	CARBON 220 5% 1/4W	
Q303	8-729-281-54	TRANSISTOR 2SC1815-BL		R322	1-259-215-21	CARBON 100K 5% 1/4W	
Q304	8-729-620-17	TRANSISTOR 2SC2259-FG		R323	1-259-179-21	CARBON 3.3K 5% 1/4W	
Q305	8-729-201-53	TRANSISTOR 2SA1015-GR		R324	1-249-931-11	CARBON 2.2K 5% 1/4W	
Q306	8-729-201-53	TRANSISTOR 2SA1015-GR		R325	1-259-444-11	CARBON 4.7K 5% 1/6W	
Q307	8-729-201-53	TRANSISTOR 2SA1015-GR		R326	1-249-490-11	CARBON 27K 5% 1/3W	
Q308	8-729-021-74	TRANSISTOR 2SA949-OY-TPE6		R327	1-259-151-21	CARBON 220 5% 1/4W	
Q309	8-729-202-67	TRANSISTOR 2SK246-GR3		△ R328	1-259-151-21	CARBON 220 5% 1/4W F	
Q310	8-729-021-73	TRANSISTOR 2SC2229-OY-TPE6		△ R329	1-249-899-11	CARBON 100 5% 1/4W F	
				R330	1-247-749-11	CARBON 560 5% 1/2W	
				R331	1-249-496-11	CARBON 100K 5% 1/3W	
				R332	1-259-171-21	CARBON 1.5K 5% 1/4W	
				R333	1-259-167-21	CARBON 1K 5% 1/4W	
				R334	1-124-995-11	CARBON 1M 5% 1/4W	
				R335	1-259-143-21	CARBON 100 5% 1/4W	
				R351	1-259-215-21	CARBON 100K 5% 1/4W	
				R352	1-249-911-11	CARBON 330 5% 1/4W	

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Replace only with part number specified.

MAIN (A)

MAIN (B)

Ref. No.	Part No.	Description	Remark
R353	1-259-215-21	CARBON 100K 5%	1/4W
R354	1-249-900-11	CARBON 110 1%	1/4W
R355	1-259-161-21	CARBON 560 5%	1/4W
R356	1-259-161-21	CARBON 560 5%	1/4W
R357	1-259-143-21	CARBON 100 5%	1/4W
R358	1-259-191-21	CARBON 10K 5%	1/4W
R359	1-249-844-11	CARBON 56K 1%	1/2W
R360	1-249-818-11	CARBON 4.7K 1%	1/2W
R361	1-259-167-21	CARBON 1K 5%	1/4W
R363	1-249-943-11	CARBON 6.8K 5%	1/4W
R364	1-249-198-11	CARBON 330 5%	1/3W
R365	1-249-198-11	CARBON 330 5%	1/3W
R366	1-249-198-11	CARBON 330 5%	1/3W
R367	1-249-198-11	CARBON 330 5%	1/3W
R368	1-259-167-21	CARBON 1K 5%	1/4W
R369	1-259-151-21	CARBON 220 5%	1/4W
R370	1-259-151-21	CARBON 220 5%	1/4W
R371	1-259-151-21	CARBON 220 5%	1/4W
R372	1-259-215-21	CARBON 100K 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
R375	1-259-444-11	CARBON 4.7K 5%	1/6W
R376	1-249-490-11	CARBON 27K 5%	1/3W
R377	1-259-151-21	CARBON 220 5%	1/4W
△ R378	1-259-151-21	CARBON 220 5%	1/4W F
△ R379	1-249-899-11	CARBON 100 5%	1/4W F
R380	1-247-749-11	CARBON 560 5%	1/2W
R381	1-249-496-11	CARBON 100K 5%	1/3W
R382	1-259-171-21	CARBON 1.5K 5%	1/4W
R383	1-259-167-21	CARBON 1K 5%	1/4W
R384	1-124-995-11	CARBON 1M 5%	1/4W
R385	1-259-143-21	CARBON 100 5%	1/4W
< VARIABLE RESISTOR >			
RV301	1-241-762-11	RES, ADJ, CARBON 2.2K (BIAS L)	
RV351	1-241-762-11	RES, ADJ, CARBON 2.2K (BIAS R)	

*	A-4389-803-A	MAIN (B) BOARD, COMPLETE (FE700R)	
*	A-4389-807-A	MAIN (B) BOARD, COMPLETE (FE900R)	

< 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 (FE900R)
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	1-115-424-11	ELECT 10000uF 20%	50V (FE900R)

Ref. No.	Part No.	Description	Remark
C409	1-115-425-11	ELECT 8200uF 20%	50V (FE700R)
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	MYLAR 0.047uF 5%	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 (FE900R)
C459	1-115-425-11	ELECT 8200uF 20%	50V (FE700R)
C459	1-115-424-11	ELECT 10000uF 20%	50V (FE900R)
C464	1-137-420-11	FILM 0.047uF 10%	100V (FE700R)
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	
* CN403A	1-564-241-11	PIN, CONNECTOR (B4P-VH) 4P	
* CN404A	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	
< DIODE >			
D401	8-719-024-99	DIODE 11ES2-NTA2B (FE700R)	
D403	8-719-024-99	DIODE 11ES2-NTA2B (FE900R)	
D404	8-719-024-99	DIODE 11ES2-NTA2B (FE900R)	
D405	8-719-024-99	DIODE 11ES2-NTA2B (FE900R)	
D406	8-719-024-99	DIODE 11ES2-NTA2B (FE900R)	
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 (FE700R)	
< IC >			
IC401	8-759-111-68	IC uPC1237HA	

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Replace only with part number specified.

MAIN (B)	OUTLET	PANEL
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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				
Q406	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	F	
△ R402	1-249-393-11	CARBON 10	5%	1/4W	F	
△ R403	1-249-405-11	CARBON 100	5%	1/4W	F	
△ R404	1-249-405-11	CARBON 100	5%	1/4W	F	
△ R405	1-247-745-11	CARBON 330	5%	1/2W	F	
△ 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		
△ R421	1-212-974-91	FUSIBLE 47	5%	1/2W	F	(FE900R)
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	F	
△ R452	1-249-393-11	CARBON 10	5%	1/4W	F	
△ R453	1-249-405-11	CARBON 100	5%	1/4W	F	
△ R454	1-249-405-11	CARBON 100	5%	1/4W	F	
△ R455	1-247-745-11	CARBON 330	5%	1/2W	F	
△ 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		

Ref. No.	Part No.	Description	Remark			
*	1-660-573-11	OUTLET BOARD	*****			
< JACK >						
△ CNJ1	1-526-794-11	OUTLET, AC (AC OUTLET)				
△ CNJ2	1-526-794-11	OUTLET, AC (AC OUTLET)				
△ CNJ3	1-526-794-11	OUTLET, AC (AC OUTLET)	*****			

*	A-4389-812-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	
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	
< 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 12P				
* 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				
< 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				

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D908	8-719-987-63	DIODE 1N4148M		R251	1-259-446-11	CARBON 5.6K 5%	1/6W
D909	8-719-987-63	DIODE 1N4148M		R252	1-259-446-11	CARBON 5.6K 5%	1/6W
D910	8-719-987-63	DIODE 1N4148M					
D911	8-719-987-63	DIODE 1N4148M		R253	1-259-436-11	CARBON 2.2K 5%	1/6W
D912	8-719-987-63	DIODE 1N4148M		R254	1-259-464-11	CARBON 33K 5%	1/6W
				R255	1-259-446-11	CARBON 5.6K 5%	1/6W
D913	8-719-985-59	DIODE HZS4CLL-TA		R256	1-259-500-11	CARBON 1M 5%	1/6W
D914	8-719-987-63	DIODE 1N4148M		R257	1-259-456-11	CARBON 15K 5%	1/6W
D915	8-719-987-63	DIODE 1N4148M					
D916	8-719-987-63	DIODE 1N4148M		R258	1-259-456-11	CARBON 15K 5%	1/6W
D919	8-719-987-63	DIODE 1N4148M		R259	1-259-500-11	CARBON 1M 5%	1/6W
		< IC >		R260	1-259-500-11	CARBON 1M 5%	1/6W
IC901	8-759-962-08	IC BA6208		R270	1-259-464-11	CARBON 33K 5%	1/6W
IC902	8-759-392-41	IC TMP47C103N-JP47		R419	1-249-429-11	CARBON 10K 5%	1/4W
		< PHOTO COUPLER >					
PH900	8-719-902-56	PHOTO COUPLER PC817		R902	1-249-429-11	CARBON 10K 5%	1/4W
		< TRANSISTOR >		R903	1-249-429-11	CARBON 10K 5%	1/4W
Q900	8-729-620-05	TRANSISTOR 2SC2603-EF		R905	1-249-429-11	CARBON 10K 5%	1/4W
Q901	8-729-900-63	TRANSISTOR DTA124ES		R908	1-249-429-11	CARBON 10K 5%	1/4W
Q902	8-729-900-63	TRANSISTOR DTA124ES		R909	1-249-429-11	CARBON 10K 5%	1/4W
Q903	8-729-900-80	TRANSISTOR DTC114ES					
Q904	8-729-422-57	TRANSISTOR UN4111		R910	1-249-400-11	CARBON 39 5%	1/4W
Q905	8-729-422-57	TRANSISTOR UN4111		R911	1-249-411-11	CARBON 330 5%	1/4W
Q906	8-729-422-57	TRANSISTOR UN4111		R912	1-249-429-11	CARBON 10K 5%	1/4W
Q907	8-729-119-78	TRANSISTOR 2SC403SP-51		R913	1-249-425-11	CARBON 4.7K 5%	1/4W
Q908	8-729-620-05	TRANSISTOR 2SC2603-EF		R914	1-247-807-31	CARBON 100 5%	1/4W
Q909	8-729-620-05	TRANSISTOR 2SC2603-EF					
Q910	8-729-201-53	TRANSISTOR 2SA1015-GR		R916	1-247-751-11	CARBON 820 5%	1/2W
Q911	8-729-142-36	TRANSISTOR BN1L3Z		R917	1-249-433-11	CARBON 22K 5%	1/4W
Q912	8-729-422-57	TRANSISTOR UN4111		R918	1-249-423-11	CARBON 3.3K 5%	1/4W
Q913	8-729-422-57	TRANSISTOR UN4111		R919	1-249-423-11	CARBON 3.3K 5%	1/4W
Q914	8-729-422-57	TRANSISTOR UN4111		R920	1-249-429-11	CARBON 10K 5%	1/4W
Q915	8-729-422-57	TRANSISTOR UN4111					
Q916	8-729-422-57	TRANSISTOR UN4111		R921	1-249-429-11	CARBON 10K 5%	1/4W
Q917	8-729-422-57	TRANSISTOR UN4111		R922	1-249-429-11	CARBON 10K 5%	1/4W
		< RESISTOR >		R923	1-249-429-11	CARBON 10K 5%	1/4W
R200	1-259-500-11	CARBON 1M 5%	1/6W	R924	1-249-429-11	CARBON 10K 5%	1/4W
R201	1-259-446-11	CARBON 5.6K 5%	1/6W	R927	1-249-406-11	CARBON 120 5%	1/4W
R202	1-259-446-11	CARBON 5.6K 5%	1/6W				
R203	1-259-436-11	CARBON 2.2K 5%	1/6W	R958	1-249-406-11	CARBON 120 5%	1/4W
R204	1-259-464-11	CARBON 33K 5%	1/6W			< VARIABLE RESISTOR >	
				RV200	1-223-933-21	RES, VAR, CARBON 250K/250K (BALANCE)	
R205	1-259-446-11	CARBON 5.6K 5%	1/6W	RV201	1-223-934-21	RES, VAR, CARBON 250K/250K (TREBLE)	
R206	1-259-500-11	CARBON 1M 5%	1/6W	RV202	1-223-935-21	RES, VAR, CARBON 900K/900K (BASS)	
R207	1-259-456-11	CARBON 15K 5%	1/6W			< SWITCH >	
R208	1-259-456-11	CARBON 15K 5%	1/6W	S200	1-571-828-11	SWITCH, PUSH (1 KEY)(SOURCE DIRECT)	
R209	1-259-500-11	CARBON 1M 5%	1/6W	S201	1-762-387-11	SWITCH, PUSH (LOUDNESS)	
				S202	1-571-112-21	SWITCH, PUSH (1 KEY)(SUBSONIC)	
R210	1-259-500-11	CARBON 1M 5%	1/6W	S203	1-762-656-12	SWITCH, ROTARY (TAPE MONITOR)	
R220	1-259-464-11	CARBON 33K 5%	1/6W	S901	1-692-974-11	SWITCH, ROTARY (INPUT SELECTOR)	
R250	1-259-500-11	CARBON 1M 5%	1/6W			< VIBRATOR >	
				X900	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	

PRO IND

SP SW

SP TM

Ref. No.	Part No.	Description	Remark			
*	1-660-561-11	PRO IND BOARD *****				
		< CONNECTOR >				
CN951	1-691-766-21	PLUG (MICRO CONNECTOR) 4P				
		< DIODE >				
D900	8-719-313-48	LED SEL6210S-TH12 (PROTECTION)				
		< IC >				
IC900	8-759-373-49	IC NJL54H400				
		< RESISTOR >				
R900	1-249-409-11	CARBON	220	5%	1/4W	

*	1-660-558-11	SP SW BOARD *****				
		< CONNECTOR >				
CN552	1-691-771-11	PLUG (MICRO CONNECTOR) 9P				
CN950	1-691-766-11	PLUG (MICRO CONNECTOR) 4P				
CN960	1-691-765-11	PLUG (MICRO CONNECTOR) 3P				
		< DIODE >				
D701	8-719-987-63	DIODE 1N4148M				
		< RESISTOR >				
R928	1-247-751-11	CARBON	820	5%	1/2W	
R929	1-247-751-11	CARBON	820	5%	1/2W	
R930	1-247-751-11	CARBON	820	5%	1/2W	
R931	1-247-751-11	CARBON	820	5%	1/2W	
R932	1-247-751-11	CARBON	820	5%	1/2W	
R933	1-247-751-11	CARBON	820	5%	1/2W	
R934	1-247-231-00	CARBON	430	5%	1/2W	
		(FE700R)				
R934	1-247-747-11	CARBON	470	5%	1/2W	
		(FE900R)				
R935	1-247-231-00	CARBON	430	5%	1/2W	
		(FE700R)				
R935	1-247-747-11	CARBON	470	5%	1/2W	
		(FE900R)				
R936	1-247-231-00	CARBON	430	5%	1/2W	
		(FE700R)				
R936	1-247-747-11	CARBON	470	5%	1/2W	
		(FE900R)				
R937	1-247-231-00	CARBON	430	5%	1/2W	
		(FE700R)				
R937	1-247-747-11	CARBON	470	5%	1/2W	
		(FE900R)				
R938	1-247-243-00	CARBON	1.3K	5%	1/2W	
R939	1-247-243-00	CARBON	1.3K	5%	1/2W	

Ref. No.	Part No.	Description	Remark			
		< 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 >				
CN502	1-691-771-11	PLUG (MICRO CONNECTOR) 9P				
CN503	1-566-212-11	PIN, CONNECTOR 3P (EON CONTROL)				
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	1-532-464-51	FUSE, TIME LUG(T2.5AL/250V)				
△ F802	1-532-464-51	FUSE, TIME LUG(T2.5AL/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)				

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
*	1-660-574-11	TRANS BOARD *****	

*	1-660-559-11	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	
		< VARIABLE RESISTOR >	
RV203	1-225-227-11	RES, VAR, CARBON 120K/120K (VOLUME)	

		MISCELLANEOUS *****	
54	1-533-233-11	HOLDER, FUSE	
△ 67	1-777-185-11	CORD, POWER	
△ CNJ1	1-526-794-11	OUTLET, AC (AC OUTLET)	
△ CNJ2	1-526-794-11	OUTLET, AC (AC OUTLET)	
△ CNJ3	1-526-794-11	OUTLET, AC (AC OUTLET)	
△ F801	1-532-464-51	FUSE, TIME LUG(T2.5AL/250V)	
△ F802	1-532-464-51	FUSE, TIME LUG(T2.5AL/250V)	
△ S1	1-554-920-11	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)	
△ T1	1-429-490-11	TRANSFORMER, POWER (FE900R)	
△ T1	1-429-491-11	TRANSFORMER, POWER (FE700R)	

		ACCESSORIES & PACKING MATERIALS *****	
	1-473-656-11	REMOTE COMMANDER (RM-S316)	
	3-856-216-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, 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)	
*	4-982-292-01	INDIVIDUAL CARTON (FE900R)	
*	4-982-293-01	INDIVIDUAL CARTON (FE700R)	

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△ or dotted line with mark △ are criti-
cal for safety.
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fied.

