

# TA-FE370/FE570

## SERVICE MANUAL

Ver 1.0 2001.04

AEP Model  
UK Model



Photo: TA-FE570 (BLACK)

### SPECIFICATIONS

#### Amplifier section

##### DIN power output

TA-FE570:	110 W + 110 W (4 ohms at 1 kHz)
TA-FE370:	70 W + 70 W (4 ohms at 1 kHz)

##### Frequency response

PHONO (20 Hz - 20 kHz):	RIAA equalization curve $\pm 1.0$ dB
TUNER, CD, AUX, TAPE1/DAT, TAPE2/MD:	7 Hz - 70 kHz $^{+0}$ dB $^{-3}$ dB

##### S/N (network A)

PHONO:	80 dB
TUNER, CD, AUX, TAPE1/DAT, TAPE2/MD:	105 dB

##### Output voltage/impedance

RECOUT:	200 mV, 1 kilohm
PHONES:	5 mW (at 8 ohms)

**Speakers impedance** 4 - 16 ohms

**Damping factor** 80 (8 ohms, 1 kHz)

#### General

##### System

Power amplifier with all stages directly coupled  
Preamplifier: Low-noise, equalizer amplifier

**Power requirements** 230 V AC, 50/60 Hz

##### Power consumption

TA-FE570:	190 W
TA-FE370:	160 W 0.6 W (In standby mode)

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

430 x 135 x 310 mm  
incl. projecting parts and controls

##### Mass (approx.)

TA-FE570:	6.5 kg
TA-FE370:	5.5 kg

##### Supplied accessories

Remote commander (remote) RM-S325 (1)  
Sony batteries R6 (size-AA) (2)

Design and specifications are subject to change without notice.

## INTEGRATED STEREO AMPLIFIER

9-873-838-11  
2001D0500-1  
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**Sony Corporation**  
Home Audio Company  
Shinagawa Tec Service Manual Production Group

# SONY®

**SECTION 1  
SERVICING NOTES**

**TABLE OF CONTENTS**

**1. SERVICING NOTES** ..... 2

**2. GENERAL**  
Location of Controls ..... 3

**3. DISASSEMBLY**  
3-1. Disassembly Flow ..... 4  
3-2. Case ..... 4  
3-3. Front Panel Assy ..... 5  
3-4. MAIN Board ..... 5

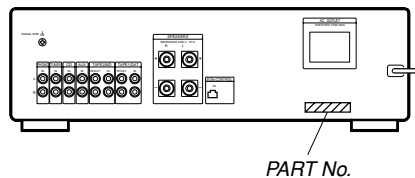
**4. DIAGRAMS**  
4-1. Note for Printed Wiring Boards  
and Schematic Diagrams ..... 7  
4-2. Printed Wiring Board – MAIN Board – ..... 8  
4-3. Schematic Diagram – MAIN Board – ..... 9  
4-4. Printed Wiring Boards – CONTROL/SPEAKER SW/  
VOLUME/Boards – ..... 10  
4-5. Schematic Diagram – CONTROL/SPEAKER SW/  
VOLUME Boards – ..... 11  
4-6. Printed Wiring Boards  
– AC OUTLET/HEADPHONE/LOUDNESS/  
POWER SW/STANDBY Boards – ..... 12  
4-7. Schematic Diagram  
– AC OUTLET/HEADPHONE/LOUDNESS/  
POWER SW/STANDBY Boards – ..... 13  
4-8. IC Pin Function Description ..... 14

**5. EXPLODED VIEWS**  
5-1. Case Section ..... 15  
5-2. Front Panel Section ..... 16  
5-3. Chassis Section ..... 17

**6. ELECTRICAL PARTS LIST** ..... 18

**MODEL IDENTIFICATION**

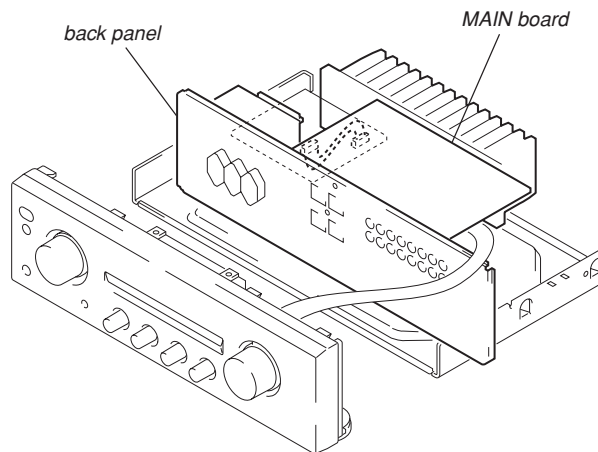
– Back Panel –



Model	PART No.
TA-FE570: AEP model	4-233-359-0□
TA-FE570: UK model	4-233-359-1□
TA-FE370: AEP model	4-233-359-2□
TA-FE370: UK model	4-233-359-3□

**MAIN BOARD SETTING**

On AEP model of this set, AC outlet is mounted onto the AC OUTLET board holding the back panel between. Since removing the MAIN board alone is difficult, in repairing the MAIN board, handle the MAIN board with the back panel connected as shown in the figure below.



**SAFETY-RELATED COMPONENT WARNING!!**

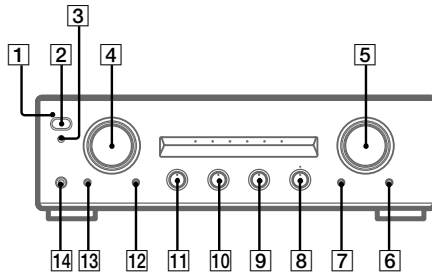
COMPONENTS IDENTIFIED BY MARK  $\triangle$  OR DOTTED LINE WITH MARK  $\triangle$  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

**SECTION 2  
GENERAL**

This section is extracted from instruction manual.

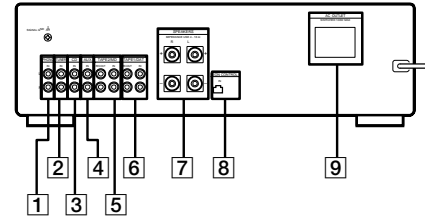
**LOCATION OF CONTROLS**

• **Front Panel**



- BALANCE [8] (8)
- BASS [10] (8)
- EON LINK (TA-FE570 only) [13] (8)
- INPUT SELECTOR [4] (8, 9)
- LOUDNESS [6] (8)
- PHONES jack [14] (8)
- SOURCE DIRECT [7] (8)
- SPEAKERS selector [11] (8)
- STANDBY indicator [1] (8)
- TAPE1 MONITOR (TA-FE570 only) [12] (9)
- TREBLE [9] (8)
- VOLUME control [5] (8)
- I/⏻ (power) [2] (8, 9)
- ⏻ (remote control sensor) [3] (5)

• **Back Panel**

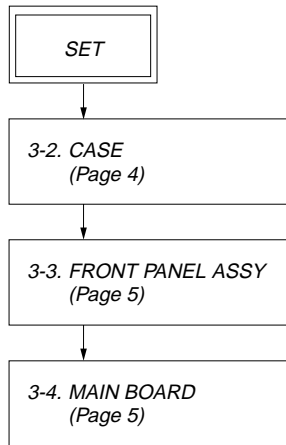


- [1] PHONO jack
- [2] TUNER jack
- [3] CD jack
- [4] AUX jack
- [5] TAPE2/MD jack
- [6] TAPE1/DAT jack
- [7] SPEAKERS terminal
- [8] EON CONTROL connector (FE570)
- [9] AC OUTLET connector (AEP model)

## SECTION 3 DISASSEMBLY

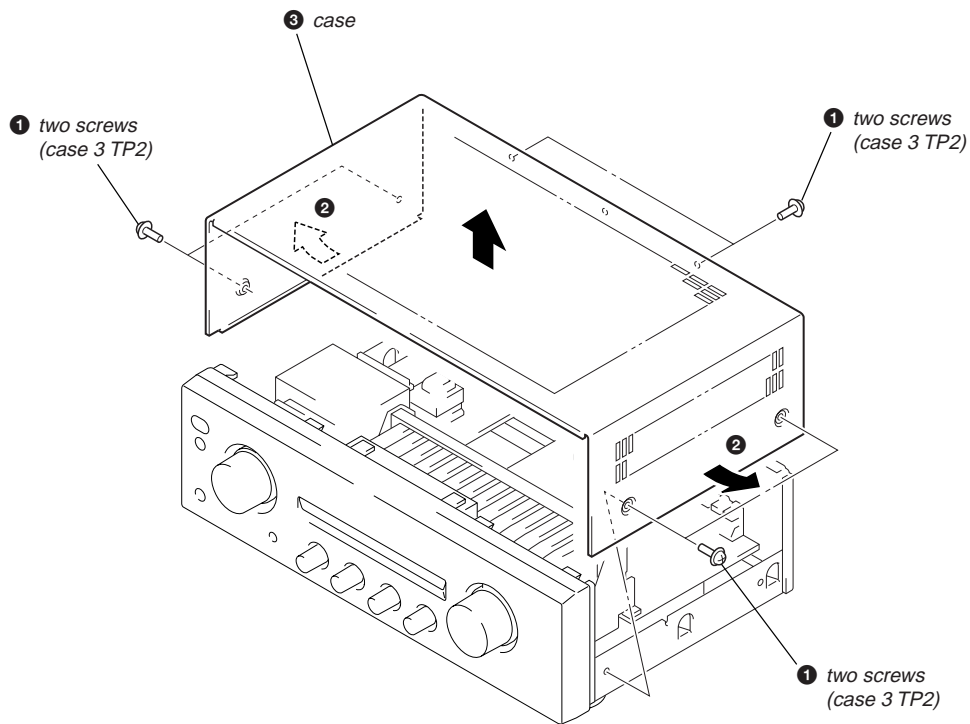
• This set can be disassembled in the order shown below.

### 3-1. DISASSEMBLY FLOW

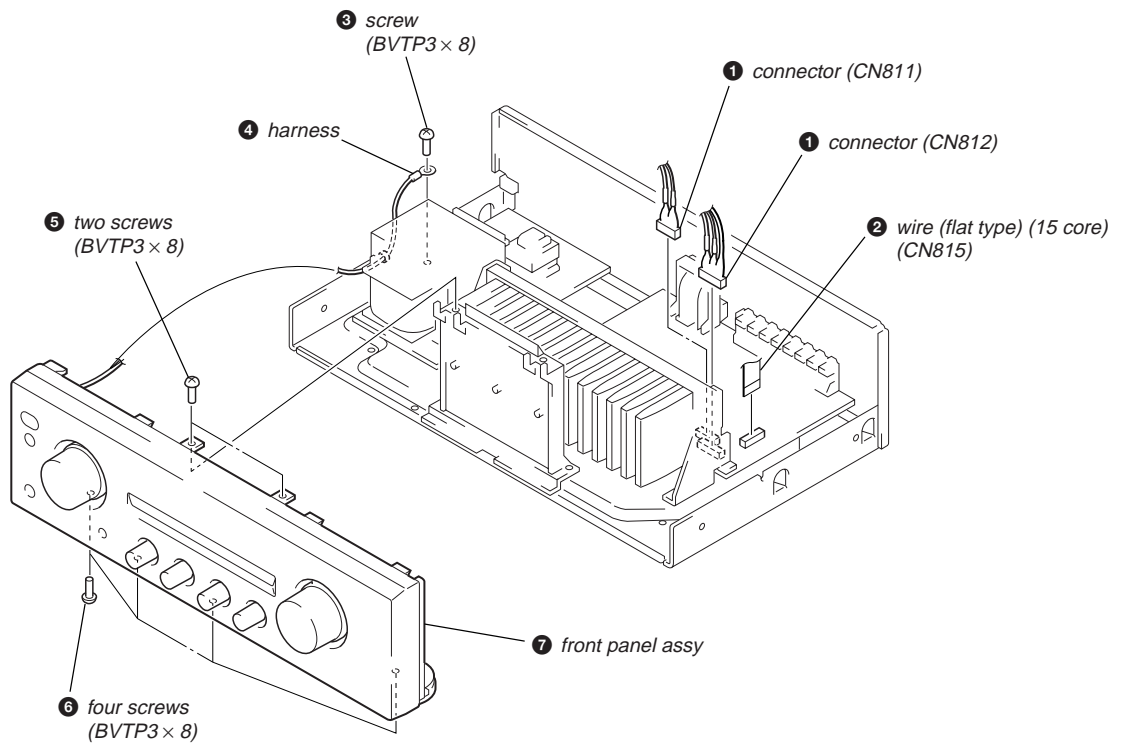


**Note:** Follow the disassembly procedure in the numerical order given.

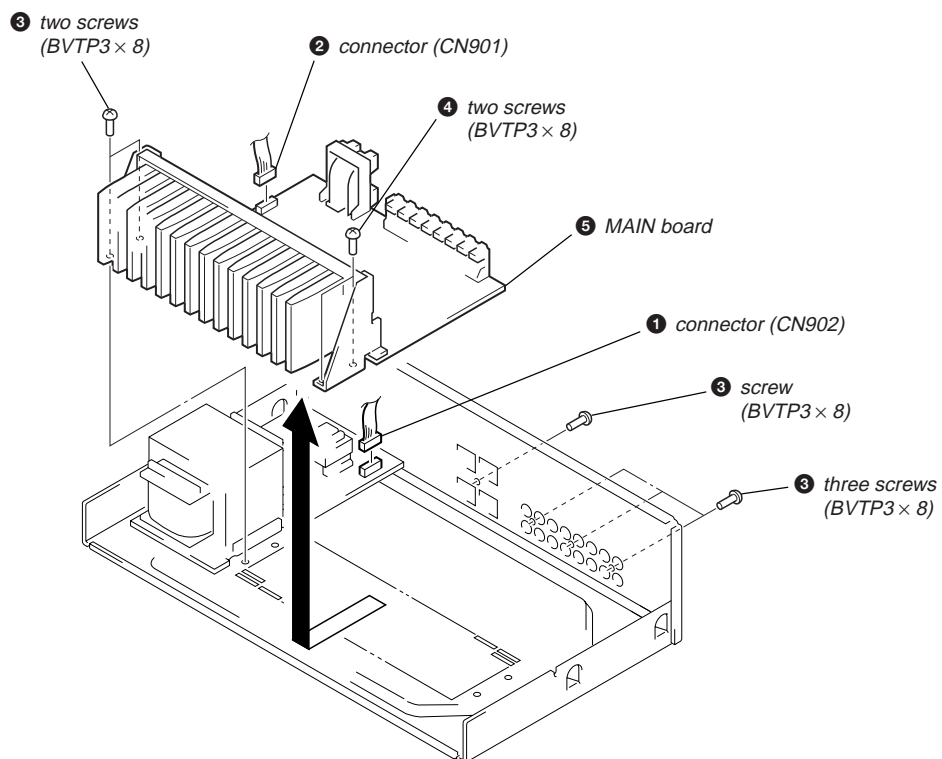
### 3-2. CASE



3-3. FRONT PANEL ASSY



3-4. MAIN BOARD



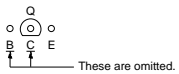
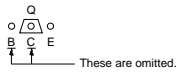
MEMO

**SECTION 4  
DIAGRAMS**

**4-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS**

**Note on Printed Wiring Board:**

- : parts extracted from the component side.
- : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)
- Indication of transistor



**Note on Schematic Diagram:**

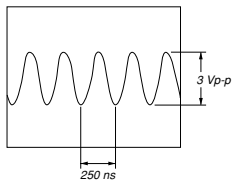
- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
-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

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

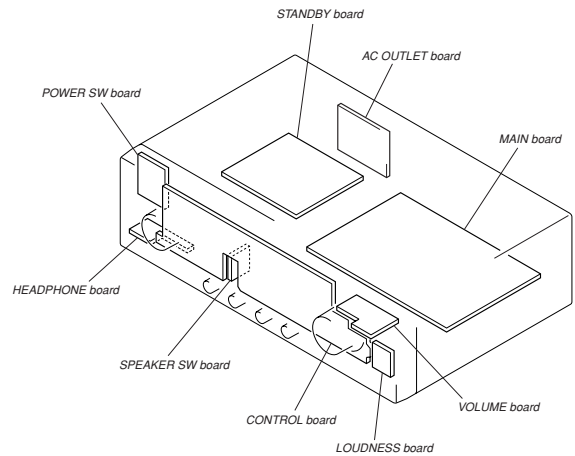
- : B+ Line.
- - - : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- no mark : TUNER
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- : TUNER
- ⊃ : TAPE1/DAT IN
- ⊃ : RECOUT
- ⊃ : TAPE2/MD IN
- ⊃ : CD
- ⊃ : PHONO

**• Waveform  
- CONTROL Board -**

① IC801 (XOUT)



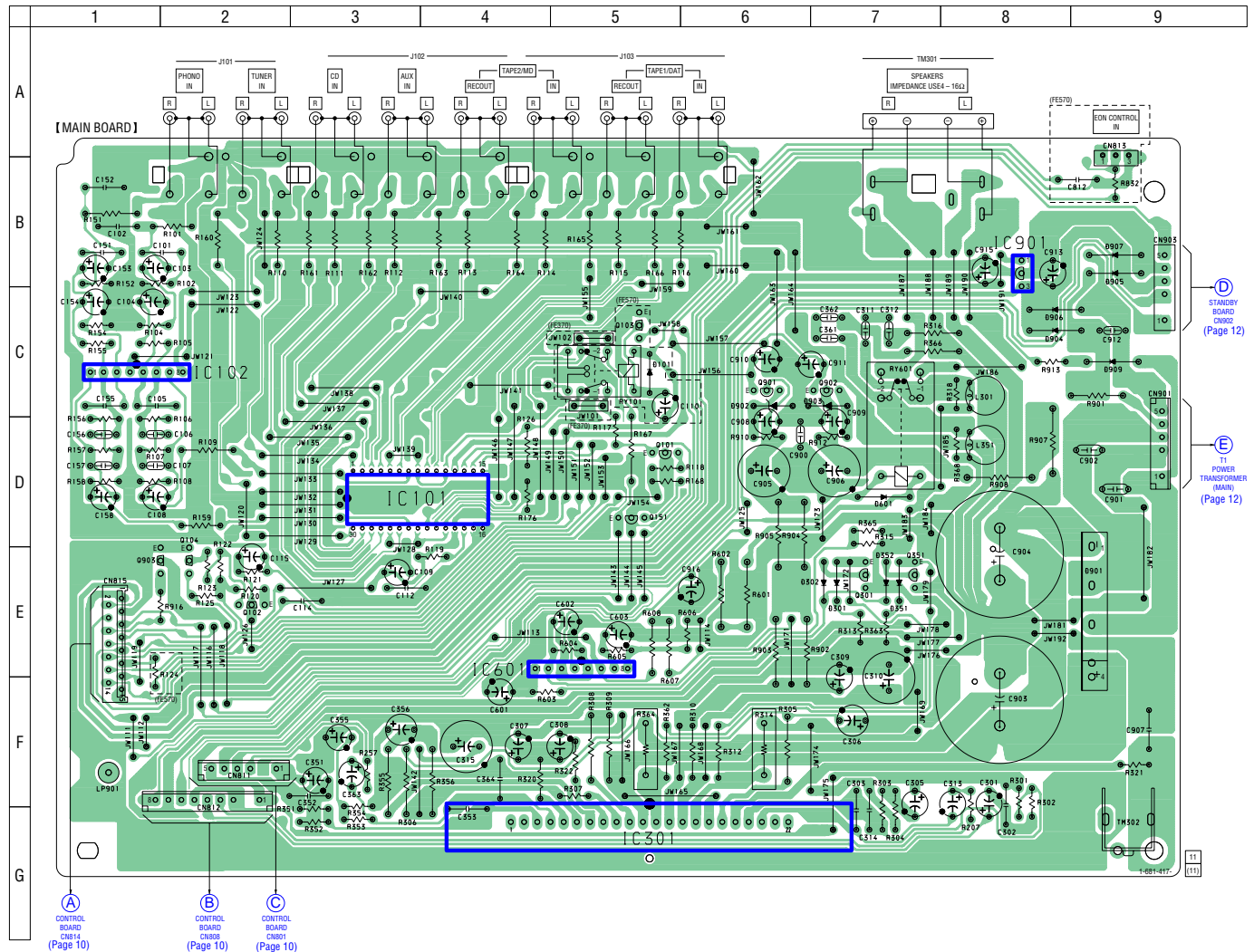
**• Circuit Boards Location**



4-2. PRINTED WIRING BOARD – MAIN Board – • See page 7 for Circuit Boards Location.

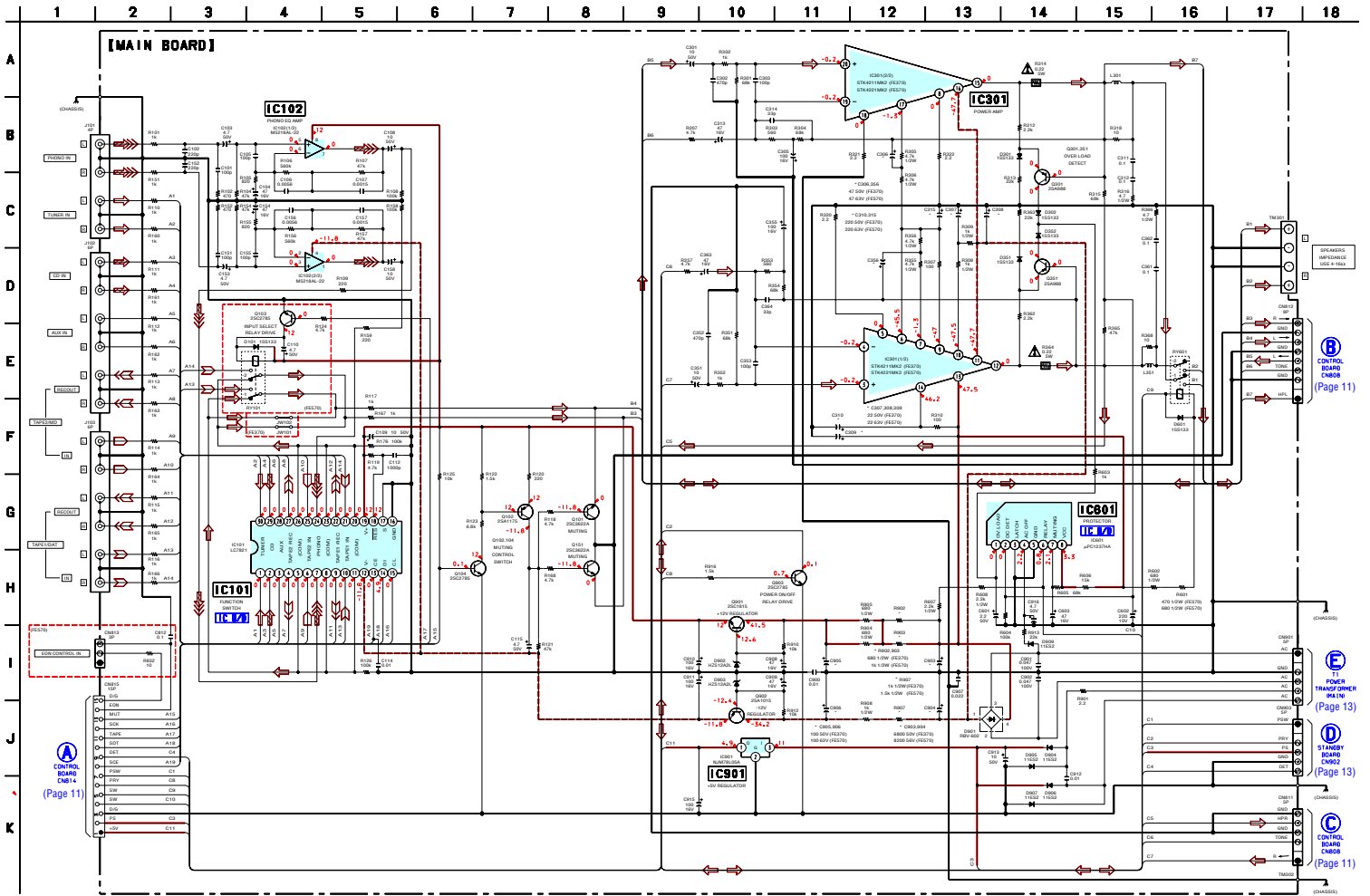
• Semiconductor Location

Ref. No.	Location
D101	C-5
D301	E-7
D302	E-7
D351	E-7
D352	E-7
D601	D-7
D901	E-9
D902	C-6
D903	C-7
D904	C-8
D905	B-8
D906	C-8
D907	B-9
D909	C-9
IC101	D-3
IC102	C-1
IC301	G-5
IC601	E-5
IC901	B-8
Q101	D-5
Q102	E-2
Q103	C-5
Q104	E-2
Q151	D-5
Q301	E-7
Q351	C-7
Q901	E-6
Q902	C-7
Q903	E-1



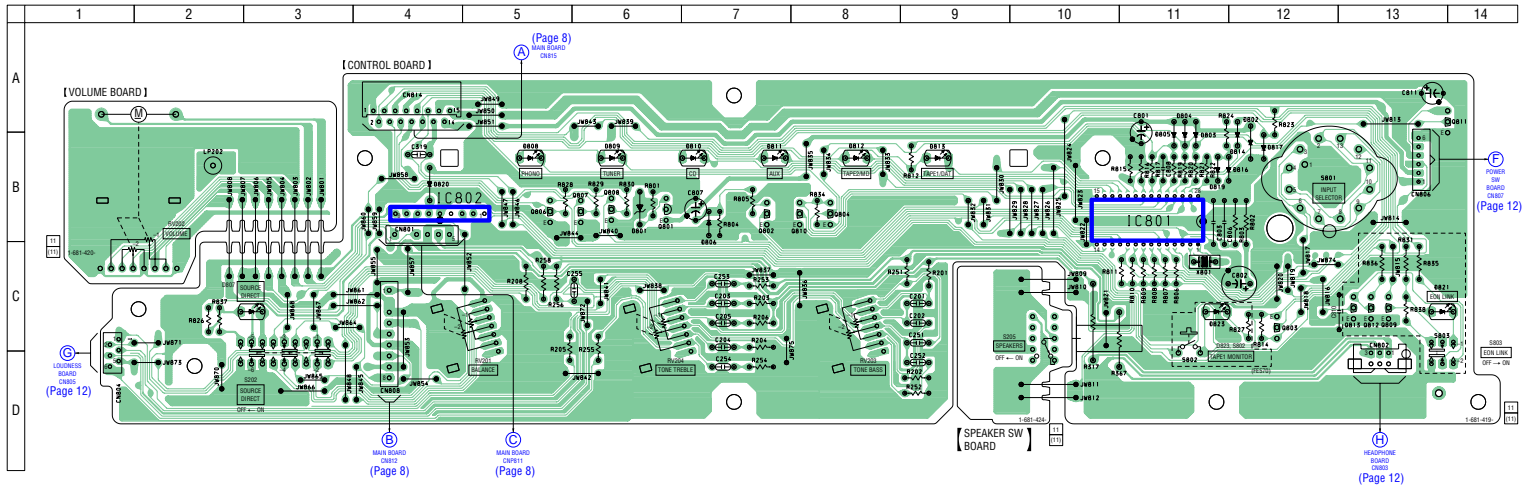


4-3. SCHEMATIC DIAGRAM – MAIN Board – • See page 14 for IC Block Diagrams.



TA-FE370/FE570

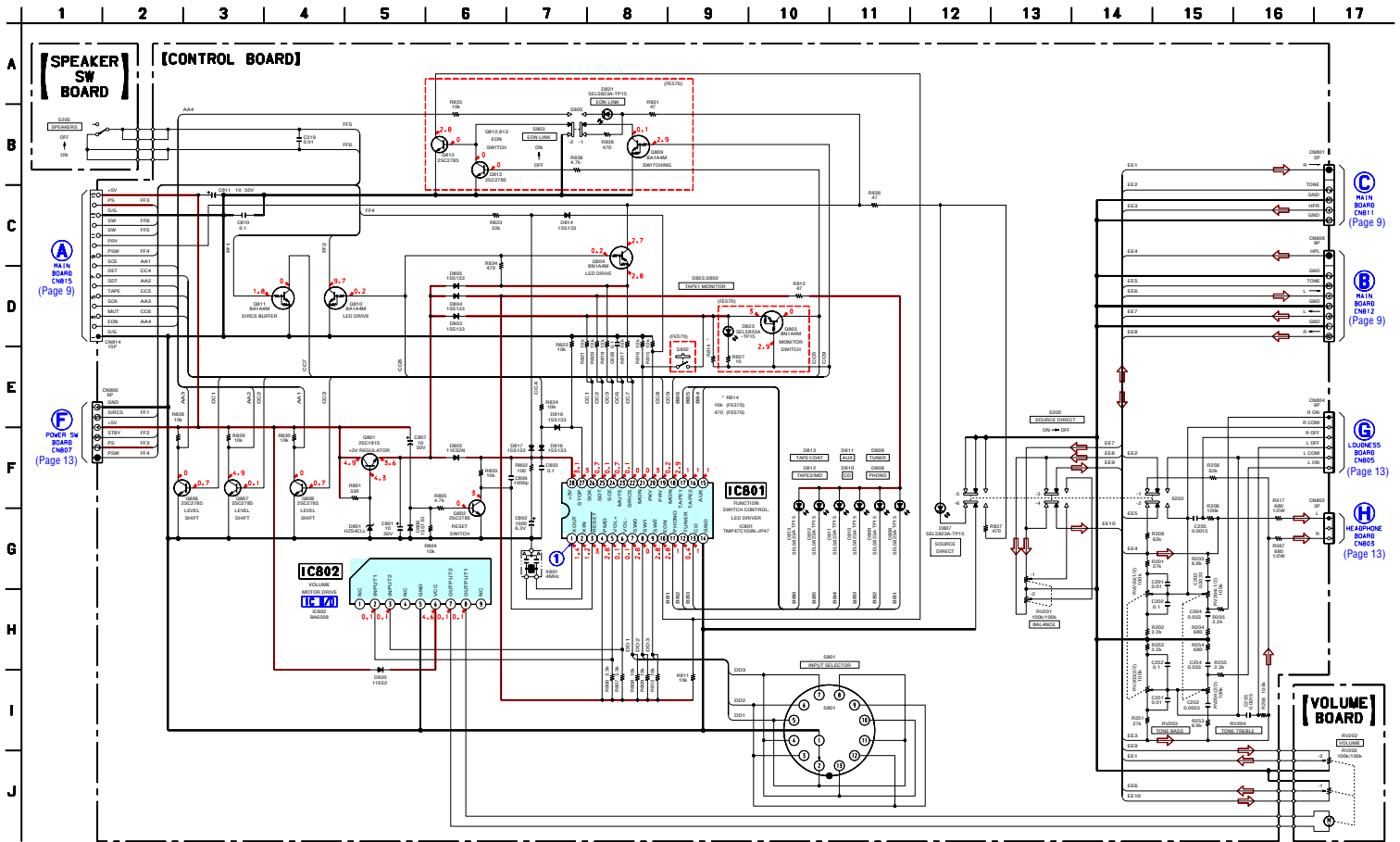
4-4. PRINTED WIRING BOARDS – CONTROL/SPEAKER SW/VOLUME Boards – • See page 7 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D801	B-6	D821	C-13
D802	B-12	D823	C-11
D803	B-11		
D804	B-11	IC801	B-11
D805	D-11	IC802	B-4
D806	B-7		
D807	C-3	Q801	B-6
D808	B-5	Q802	B-7
D809	B-6	Q803	C-12
D810	B-7	Q804	B-8
D811	B-7	Q806	B-5
D812	B-8	Q807	B-6
D813	B-9	Q808	B-6
D814	B-12	Q809	C-13
D816	B-12	Q810	B-8
D817	B-12	Q811	A-14
D819	B-11	Q812	C-13
D820	B-4	Q813	C-13

4-5. SCHEMATIC DIAGRAM – CONTROL/SPEAKER SW/VOLUME Boards – • See page 7 for Waveform. • See page 14 for IC Block Diagram.

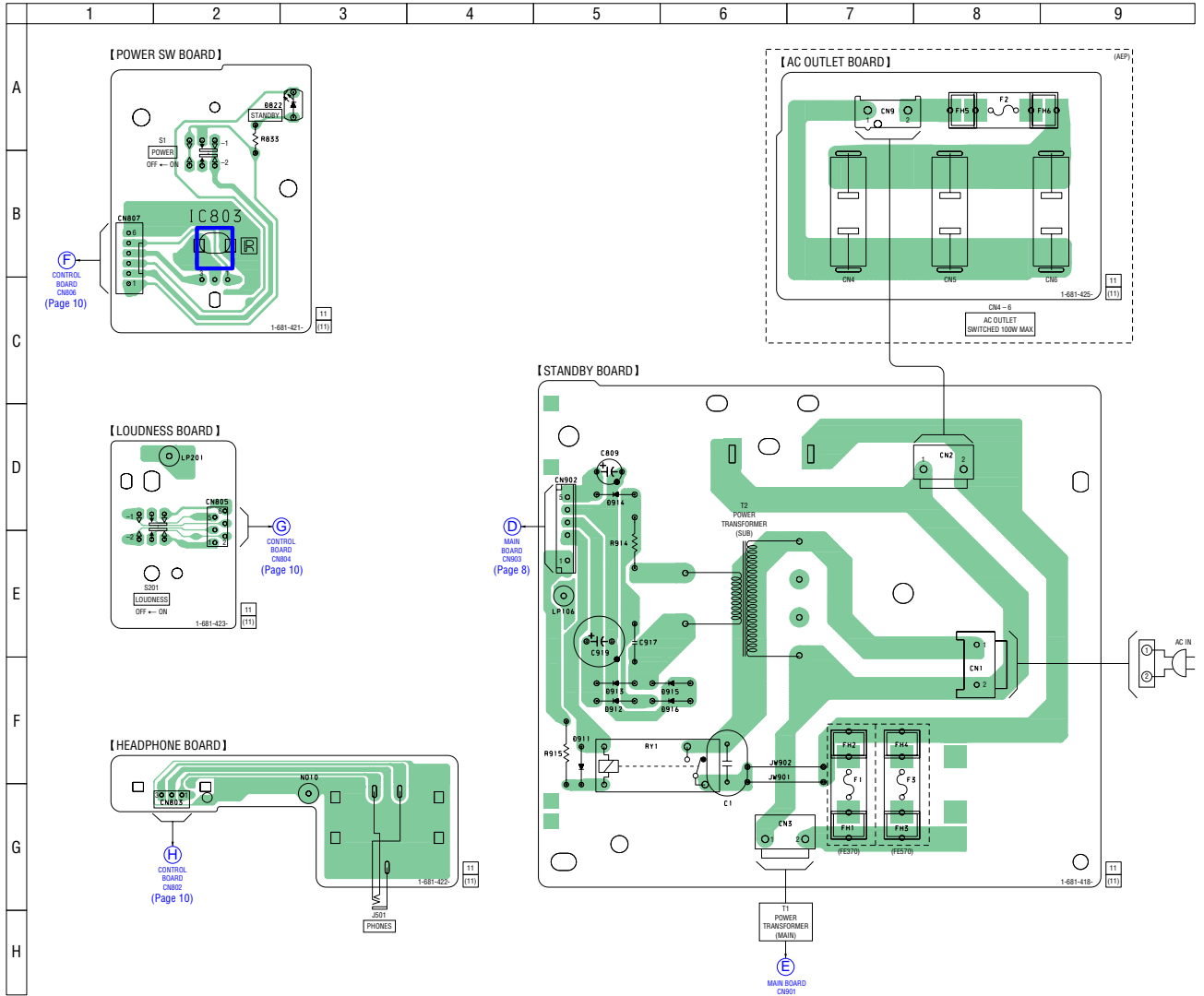


TA-FE370/FE570

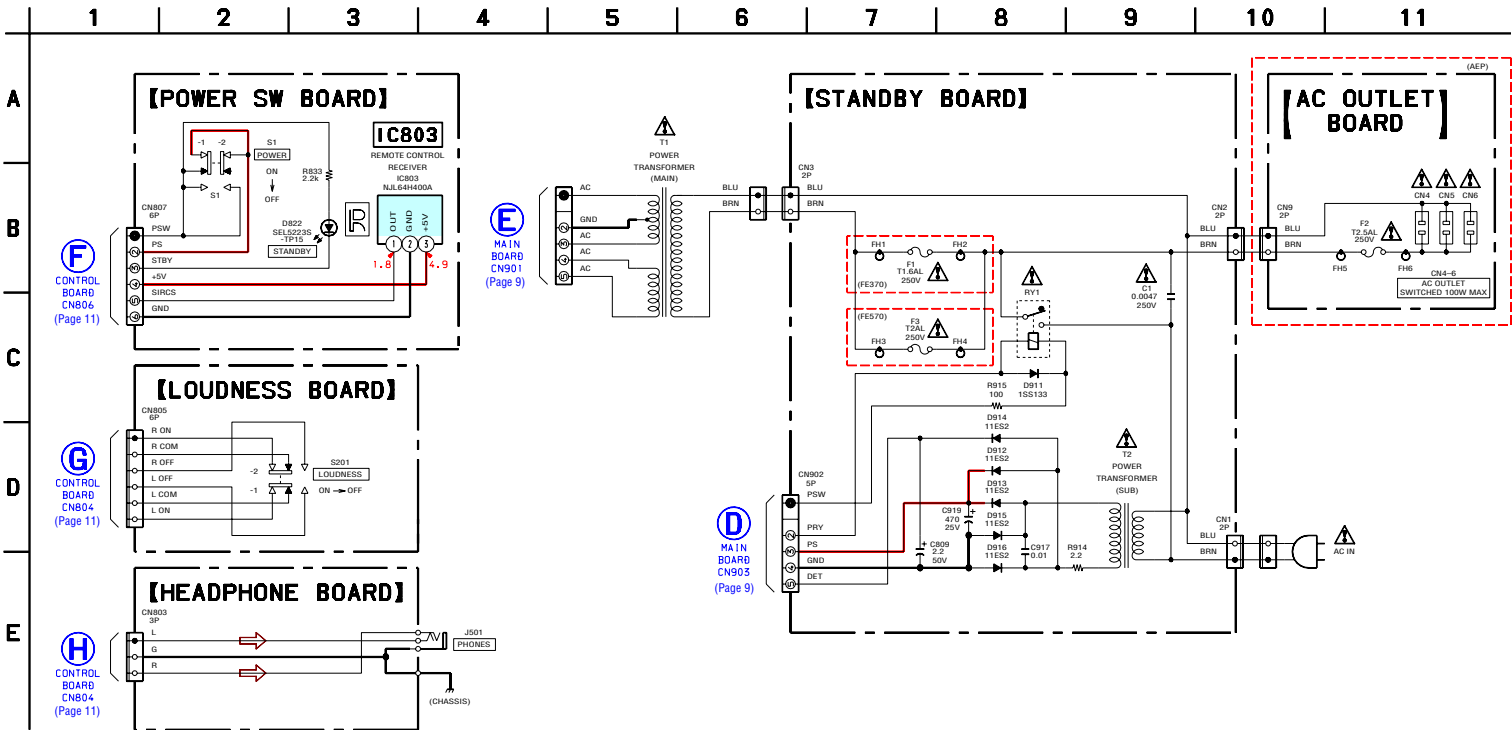
4-6. PRINTED WIRING BOARDS – AC OUTLET/HEADPHONE/LOUDNESS/POWER SW/STANDBY Boards – • See page 7 for Circuit Boards Location.

• Semiconductor Location

Ref. No.	Location
D822	A-3
D911	F-5
D912	F-5
D913	F-5
D914	D-5
D915	F-6
D916	F-6
IC803	B-2



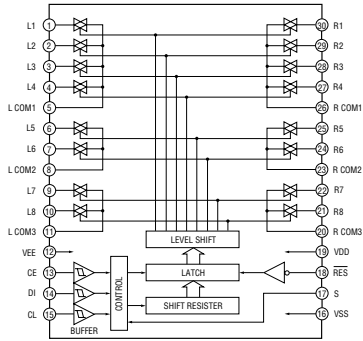
4-7. SCHEMATIC DIAGRAM – AC OUTLET/HEADPHONE/LOUDNESS/POWER SW/STANDBY Boards –



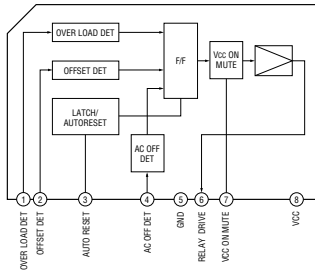
TA-FE370/FE570

• IC Block Diagrams  
- MAIN Board -

IC101 LC7821

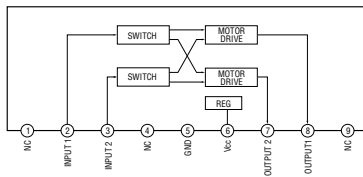


IC601 μPC1237HA



- CONTROL Board -

IC802 BA6208



4-8. IC PIN FUNCTION DESCRIPTION

• CONTROL BOARD IC801 TMP47C103N-JP47 (FUNCTION SWITCH CONTROL, LED DRIVER)

Pin No.	Pin Name	I/O	Description
1	XOUT	O	Main system clock output terminal (4 MHz)
2	XIN	I	Main system clock input terminal (4 MHz)
3	RESET	I	System reset signal input terminal "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
4	PMD	I	Setting terminal for the model (Fixed at "H" in this set)
5	VOL+	O	Motor drive signal output to the volume motor drive (IC802) (volume up direction)
6	VOL-	O	Motor drive signal output to the volume motor drive (IC802) (volume down direction)
7 to 9	SW0 to SW2	I	Rotary switch input of the INPUT SELECTOR (S801)
10	EON	I	Detection signal input of the enhanced other networks (EON) (Used for the TA-FE570) TA-FE370: Not used (fixed at "H")
11	PHONO	O	LED drive signal output of the PHONO LED (D808) "L": LED on
12	TUNER	O	LED drive signal output of the TUNER LED (D809) "L": LED on
13	CD	O	LED drive signal output of the CD LED (D810) "L": LED on
14	GND	—	Ground terminal
15	AUX	O	LED drive signal output of the AUX LED (D811) "L": LED on
16	TAPE2	O	LED drive signal output of the TAPE2/MD LED (D812) "L": LED on
17	TAPE1	O	LED drive signal output of the TAPE1/DAT LED (D813) "L": LED on
18	MON	O	Tape monitor on/off control signal output terminal "L": tape monitor on (Used for the TA-FE570) TA-FE370: Not used (pull up)
19	PRY	O	Power on/off relay drive signal output "L": power on, "H": standby mode
20	PKY	I	POWER switch (S1) input terminal "H": power on
21	MON	I	TAPE1 MONITOR switch (S802) input terminal "H" input when key pressing (Used for the TA-FE570) TA-FE370: Not used (fixed at "L")
22	SIRCS	I	Sircs signal input from the remote control receiver (IC803)
23	MUTE	O	Audio line muting on/off control signal output "H": muting on
24	SCE	O	Chip enable signal output to the function switch (IC101)
25	SDT	O	Serial data output to the function switch (IC101)
26	SCK	O	Serial data transfer clock signal output to the function switch (IC101)
27	STOP	I	Detection signal input of the AC input
28	+3V	—	Power supply terminal (+3V)

## SECTION 5 EXPLODED VIEWS

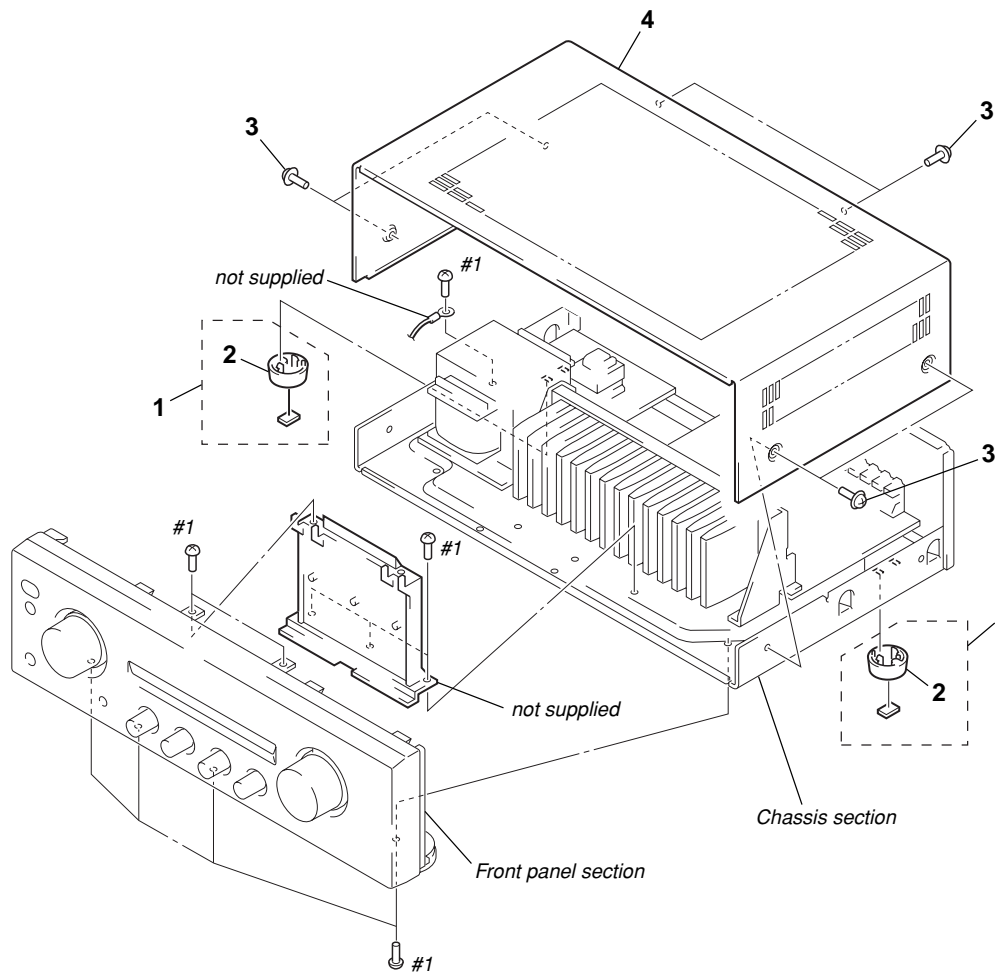
**NOTE:**

- -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 is given in the last of the electrical parts list.

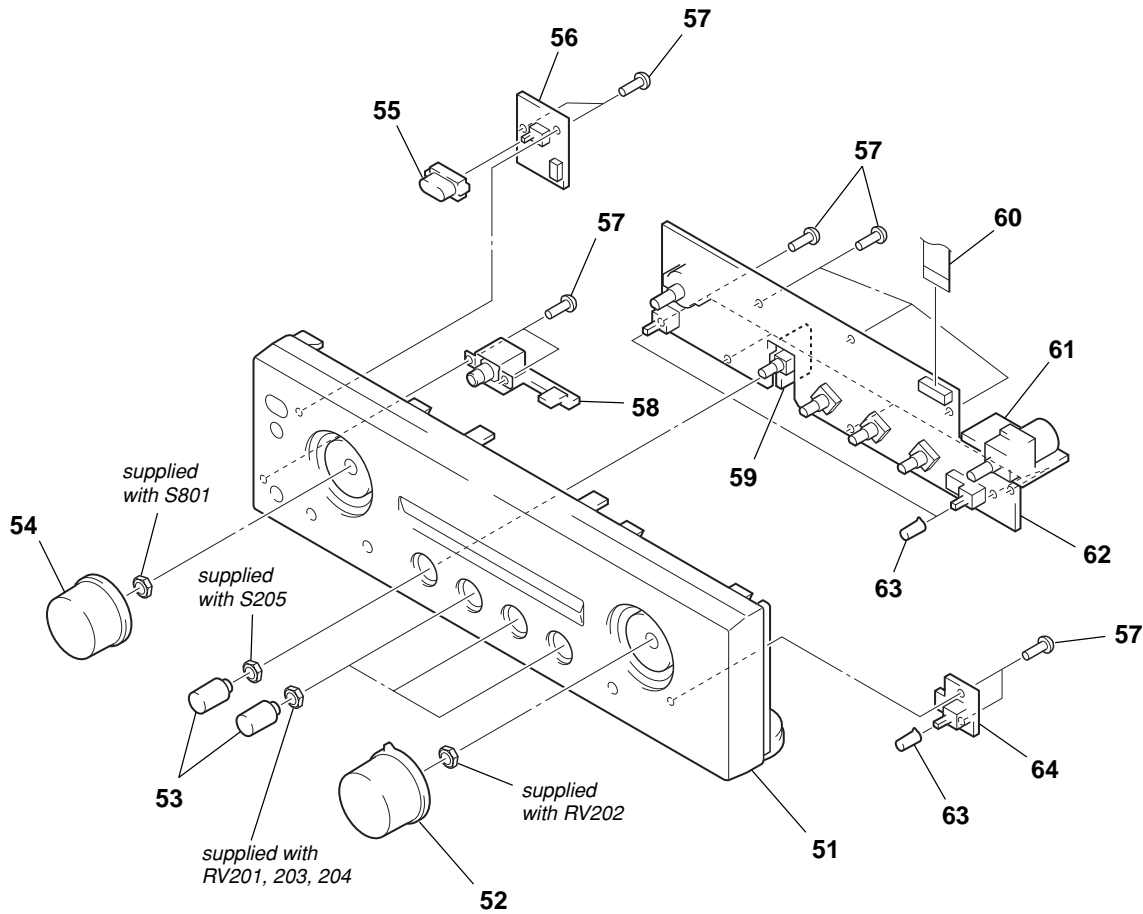
The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

### 5-1. CASE SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-4953-448-1	FOOT ASSY		4	4-233-360-11	CASE (BLACK)	
2	4-232-237-01	FOOT (DIA. 30)		4	4-233-360-31	CASE (SILVER)	
3	4-210-291-01	SCREW (CASE 3 TP2) (BLACK)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S)	
3	4-210-291-11	SCREW (CASE 3 TP2) (SILVER)					

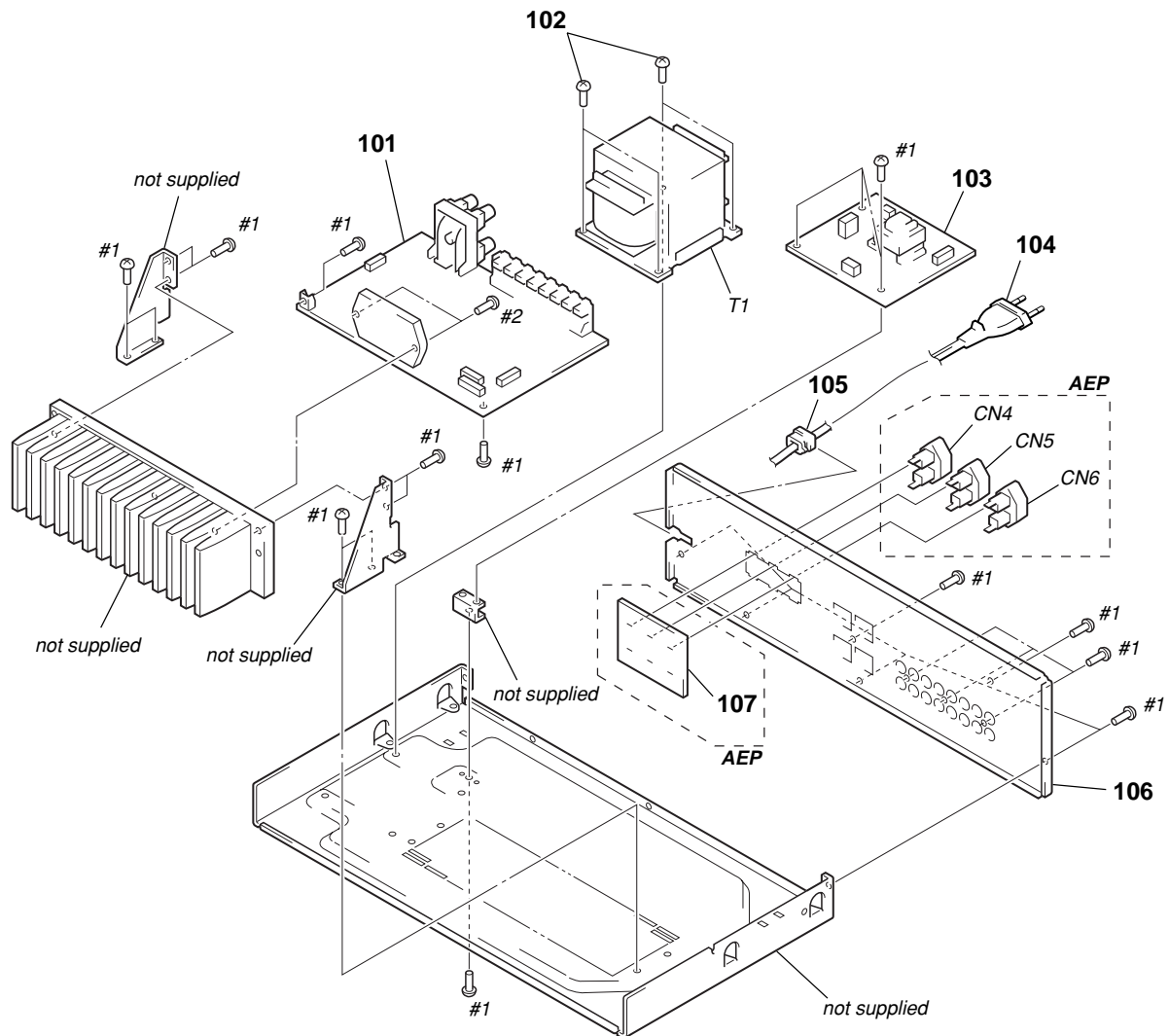
5-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-4953-702-1	PANEL, FRONT ASSY (BLACK) (FE570)		56	1-681-421-11	POWER SW BOARD	
51	X-4953-703-1	PANEL, FRONT ASSY (BLACK) (FE370)		57	4-951-620-01	SCREW (2.6X8), +BVTP	
51	X-4953-704-1	PANEL, FRONT ASSY (SILVER) (FE570)		58	1-681-422-11	HEADPHONE BOARD	
51	X-4953-719-1	PANEL, FRONT ASSY (SILVER) (FE370)		59	1-681-424-11	SPEAKER SW BOARD	
52	X-4953-705-1	KNOB (VOL) ASSY (BLACK)		60	1-773-025-11	WIRE (FLAT TYPE) (15 CORE)	
52	X-4953-706-1	KNOB (VOL) ASSY (SILVER)		61	1-681-420-11	VOLUME BOARD	
53	4-233-365-01	KNOB (BLACK)		62	A-4476-573-A	CONTROL BOARD, COMPLETE (FE570)	
53	4-233-365-11	KNOB (SILVER)		62	A-4476-583-A	CONTROL BOARD, COMPLETE (FE370)	
54	4-233-364-01	KNOB (SELECTOR) (BLACK)		63	4-980-189-01	KNOB (DIA. 6) (BLACK)	
54	4-233-364-11	KNOB (SELECTOR) (SILVER)		63	4-980-189-11	KNOB (DIA. 6) (SILVER)	
55	4-231-973-31	BUTTON (POWER) (BLACK)		64	1-681-423-11	LOUDNESS BOARD	
55	4-231-973-41	BUTTON (POWER) (SILVER)					



5-3. CHASSIS SECTION



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
101	A-4476-571-A	MAIN BOARD, COMPLETE (FE570)		106	4-233-359-31	PANEL, BACK (FE370: UK)	
101	A-4476-581-A	MAIN BOARD, COMPLETE (FE370)		107	1-681-425-11	AC OUTLET BOARD (AEP)	
102	4-900-386-01	SCREW		$\triangle$ CN4	1-526-794-11	OUTLET, AC (AEP)	
103	1-681-418-11	STANDBY BOARD		$\triangle$ CN5	1-526-794-11	OUTLET, AC (AEP)	
$\triangle$ 104	1-575-651-21	CORD, POWER		$\triangle$ CN6	1-526-794-11	OUTLET, AC (AEP)	
* 105	3-703-244-00	BUSHING (2104), CORD		$\triangle$ T1	1-437-254-11	TRANSFORMER, POWER (FE570)	
106	4-233-359-01	PANEL, BACK (FE570: AEP)		$\triangle$ T1	1-437-255-11	TRANSFORMER, POWER (FE370)	
106	4-233-359-11	PANEL, BACK (FE570: UK)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
106	4-233-359-21	PANEL, BACK (FE370: AEP)		#2	7-685-650-79	SCREW +BVTP 3X16 TYPE2 N-S	

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 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:  $\mu$ , for example:  
uA. . . :  $\mu$ A. . .      uPA. . . :  $\mu$ PA. . .  
uPB. . . :  $\mu$ PB. . .    uPC. . . :  $\mu$ PC. . .  
uPD. . . :  $\mu$ PD. . .
- CAPACITORS  
uF:  $\mu$ F  
• COILS  
uH:  $\mu$ H

The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  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
	1-681-425-11	AC OUTLET BOARD (AEP) *****		D805	8-719-911-19	DIODE 1SS119-25	
	1-533-217-41	HOLDER, FUSE  < FUSE >		D806	8-719-911-19	DIODE 1SS119-25	
$\Delta$ F2	1-532-464-31	FUSE (T2.5AL/250V) *****		D807	8-719-058-64	LED SEL5823A-TP15 (SOURCE DIRECT)	
	A-4476-573-A	CONTROL BOARD, COMPLETE (FE570)		D808	8-719-058-64	LED SEL5823A-TP15 (PHONO)	
	A-4476-583-A	CONTROL BOARD, COMPLETE (FE370) *****		D809	8-719-058-64	LED SEL5823A-TP15 (TUNER)	
		< CAPACITOR >		D810	8-719-058-64	LED SEL5823A-TP15 (CD)	
C201	1-136-153-00	FILM                    0.01uF    5%    50V		D811	8-719-058-64	LED SEL5823A-TP15 (AUX)	
C202	1-136-165-00	MYLAR                   0.1uF     5%    50V		D812	8-719-058-64	LED SEL5823A-TP15 (TAPE2/MD)	
C203	1-130-477-00	MYLAR                   0.0033uF 5%    50V		D813	8-719-058-64	LED SEL5823A-TP15 (TAPE1/DAT)	
C204	1-136-159-00	MYLAR                   0.033uF  5%    50V		D814	8-719-911-19	DIODE 1SS119-25	
C205	1-130-473-00	MYLAR                   0.0015uF 5%    50V		D816	8-719-911-19	DIODE 1SS119-25	
C251	1-136-153-00	FILM                    0.01uF    5%    50V		D817	8-719-911-19	DIODE 1SS119-25	
C252	1-136-165-00	MYLAR                   0.1uF     5%    50V		D819	8-719-911-19	DIODE 1SS119-25	
C253	1-130-477-00	MYLAR                   0.0033uF 5%    50V		D820	8-719-024-99	DIODE 11ES2-NTA2B	
C254	1-136-159-00	MYLAR                   0.033uF  5%    50V		D821	8-719-058-64	LED SEL5823A-TP15 (EON LINK) (FE570)	
C255	1-130-473-00	MYLAR                   0.0015uF 5%    50V		D823	8-719-058-64	LED SEL5823A-TP15 (TAPE1 MONITOR) (FE570)	
C319	1-136-153-00	FILM                    0.01uF    5%    50V				< IC >	
C801	1-126-795-11	ELECT                   10uF     20%   50V		IC801	8-759-392-41	IC TMP47C103N-JP47	
C802	1-126-916-11	ELECT                   1000uF   20%   6.3V		IC802	8-759-962-08	IC BA6208	
C803	1-164-159-11	CERAMIC                0.1uF     50V				< TRANSISTOR >	
C806	1-162-294-31	CERAMIC                0.001uF  10%   50V		Q801	8-729-119-78	TRANSISTOR    2SC2785-HFE	
C807	1-126-795-11	ELECT                   10uF     20%   50V		Q802	8-729-119-79	TRANSISTOR    2SC2785-FEK	
C808	1-164-159-11	CERAMIC                0.1uF     50V		Q803	8-729-422-57	TRANSISTOR    UN4111 (FE570)	
C810	1-164-159-11	CERAMIC                0.1uF     50V		Q804	8-729-422-57	TRANSISTOR    UN4111	
C811	1-126-795-11	ELECT                   10uF     20%   50V		Q806	8-729-119-79	TRANSISTOR    2SC2785-FEK	
		< CONNECTOR >		Q807	8-729-119-79	TRANSISTOR    2SC2785-FEK	
CN802	1-770-396-11	HOUSING, CONNECTOR (PC BOARD) 3P		Q808	8-729-119-79	TRANSISTOR    2SC2785-FEK	
CN804	1-750-195-11	CONNECTOR, BOARD TO BOARD 6P		Q809	8-729-900-80	TRANSISTOR    DTC114ES (FE570)	
CN806	1-770-143-11	CONNECTOR, BOARD TO BOARD 6P		Q810	8-729-900-80	TRANSISTOR    DTC114ES	
CN814	1-784-737-21	CONNECTOR, FFC 15P		Q811	8-729-900-80	TRANSISTOR    DTC114ES	
		< DIODE >		Q812	8-729-119-79	TRANSISTOR    2SC2785-FEK (FE570)	
D801	8-719-985-59	DIODE HZS4CLL		Q813	8-729-119-79	TRANSISTOR    2SC2785-FEK (FE570)	
D802	8-719-024-99	DIODE 11ES2-NTA2B				< RESISTOR >	
D803	8-719-911-19	DIODE 1SS119-25		R201	1-249-434-11	CARBON           27K     5%    1/4W	
D804	8-719-911-19	DIODE 1SS119-25		R202	1-249-421-11	CARBON           2.2K    5%    1/4W	
				R203	1-249-427-11	CARBON           6.8K    5%    1/4W	
				R204	1-249-415-11	CARBON           680     5%    1/4W	
				R205	1-249-421-11	CARBON           2.2K    5%    1/4W	
				R206	1-249-441-11	CARBON           100K    5%    1/4W	

**CONTROL**

**HEADPHONE**

**LOUDNESS**

**MAIN**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R208	1-247-874-11	CARBON	62K 5% 1/4W			< SWITCH >	
R251	1-249-434-11	CARBON	27K 5% 1/4W				
R252	1-249-421-11	CARBON	2.2K 5% 1/4W	S202	1-571-828-11	SWITCH, PUSH (1 KEY) (SOURCE DIRECT)	
R253	1-249-427-11	CARBON	6.8K 5% 1/4W	S801	1-692-974-11	SWITCH, ROTARY (INPUT SELECTOR)	
				S802	1-771-349-21	SWITCH, KEYBOARD (TAPE1 MONITOR)	(FE570)
R254	1-249-415-11	CARBON	680 5% 1/4W	S803	1-571-112-21	SWITCH, PUSH (1 KEY) (EON LINK) (FE570)	
R255	1-249-421-11	CARBON	2.2K 5% 1/4W			< VIBRATOR >	
R256	1-249-441-11	CARBON	100K 5% 1/4W				
R258	1-247-874-11	CARBON	62K 5% 1/4W	X801	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	
R317	1-249-798-11	CARBON	680 5% 1/2W	*****			
R367	1-249-798-11	CARBON	680 5% 1/2W		1-681-422-11	HEADPHONE BOARD	
R801	1-249-411-11	CARBON	330 5% 1/4W			*****	
R802	1-247-807-31	CARBON	100 5% 1/4W			< CONNECTOR >	
R803	1-249-429-11	CARBON	10K 5% 1/4W	CN803	1-770-387-11	PIN, CONNECTOR (PC BOARD) 3P	
R804	1-249-429-11	CARBON	10K 5% 1/4W			< JACK >	
R805	1-249-425-11	CARBON	4.7K 5% 1/4W	J501	1-750-735-11	JACK (LARGE TYPE) (PHONES)	
R806	1-247-843-11	CARBON	3.3K 5% 1/4W	*****			
R807	1-247-843-11	CARBON	3.3K 5% 1/4W		1-681-423-11	LOUDNESS BOARD	
R808	1-249-429-11	CARBON	10K 5% 1/4W			*****	
R809	1-249-429-11	CARBON	10K 5% 1/4W			< CONNECTOR >	
R810	1-249-429-11	CARBON	10K 5% 1/4W	CN805	1-750-186-11	CONNECTOR, BOARD TO BOARD 6P	
R811	1-249-429-11	CARBON	10K 5% 1/4W			< SWITCH >	
R812	1-249-401-11	CARBON	47 5% 1/4W	S201	1-571-112-21	SWITCH, PUSH (1 KEY) (LOUDNESS)	
R814	1-249-413-11	CARBON	470 5% 1/4W	*****			
R814	1-249-429-11	CARBON	10K 5% 1/4W (FE570)		A-4476-571-A	MAIN BOARD, COMPLETE (FE570)	
					A-4476-581-A	MAIN BOARD, COMPLETE (FE370)	
						*****	
						< CAPACITOR >	
R815	1-249-429-11	CARBON	10K 5% 1/4W	C101	1-162-282-31	CERAMIC 100PF 10% 50V	
R816	1-249-429-11	CARBON	10K 5% 1/4W	C102	1-162-286-31	CERAMIC 220PF 10% 50V	
R817	1-249-429-11	CARBON	10K 5% 1/4W	C103	1-126-963-11	ELECT 4.7uF 20% 50V	
R819	1-249-429-11	CARBON	10K 5% 1/4W	C104	1-104-660-11	ELECT 47uF 20% 16V	
R820	1-249-429-11	CARBON	10K 5% 1/4W	C105	1-162-282-31	CERAMIC 100PF 10% 50V	
R821	1-249-429-11	CARBON	10K 5% 1/4W	C106	1-130-480-00	MYLAR 0.0056uF 5% 50V	
R822	1-249-429-11	CARBON	10K 5% 1/4W	C107	1-130-473-00	MYLAR 0.0015uF 5% 50V	
R823	1-249-433-11	CARBON	22K 5% 1/4W	C108	1-126-964-11	ELECT 10uF 20% 50V	
R824	1-249-429-11	CARBON	10K 5% 1/4W	C109	1-126-964-11	ELECT 10uF 20% 50V	
R826	1-249-401-11	CARBON	47 5% 1/4W	C110	1-126-963-11	ELECT 4.7uF 20% 50V (FE570)	
R827	1-249-393-11	CARBON	10 5% 1/4W (FE570)	C112	1-162-294-31	CERAMIC 0.001uF 10% 50V	
R828	1-249-429-11	CARBON	10K 5% 1/4W	C114	1-162-306-11	CERAMIC 0.01uF 30% 16V	
R829	1-249-429-11	CARBON	10K 5% 1/4W	C115	1-126-963-11	ELECT 4.7uF 20% 50V	
R830	1-249-429-11	CARBON	10K 5% 1/4W	C151	1-162-282-31	CERAMIC 100PF 10% 50V	
R831	1-249-401-11	CARBON	47 5% 1/4W (FE570)	C152	1-162-286-31	CERAMIC 220PF 10% 50V	
R834	1-249-413-11	CARBON	470 5% 1/4W	C153	1-126-963-11	ELECT 4.7uF 20% 50V	
R835	1-249-429-11	CARBON	10K 5% 1/4W (FE570)	C154	1-104-660-11	ELECT 47uF 20% 16V	
R836	1-249-425-11	CARBON	4.7K 5% 1/4W (FE570)	C155	1-162-282-31	CERAMIC 100PF 10% 50V	
R837	1-249-413-11	CARBON	470 5% 1/4W	C156	1-130-480-00	MYLAR 0.0056uF 5% 50V	
R838	1-249-413-11	CARBON	470 5% 1/4W (FE570)	C157	1-130-473-00	MYLAR 0.0015uF 5% 50V	
				C158	1-126-964-11	ELECT 10uF 20% 50V	
						< VARIABLE RESISTOR >	
RV201	1-223-396-21	RES, VAR, CARBON 100K/100K (BALANCE)		C159	1-126-963-11	ELECT 4.7uF 20% 50V	
RV203	1-223-397-21	RES, VAR, CARBON 100K/100K (TONE BASS)		C155	1-104-660-11	ELECT 47uF 20% 16V	
RV204	1-223-397-21	RES, VAR, CARBON 100K/100K (TONE TREBLE)		C156	1-162-282-31	CERAMIC 100PF 10% 50V	

# TA-FE370/FE570

## MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C301	1-126-964-11	ELECT	10uF 20% 50V	C905	1-126-968-11	ELECT	100uF 20% 50V (FE370)
C302	1-162-290-31	CERAMIC	470PF 10% 50V	C905	1-128-576-11	ELECT	100uF 20% 63V (FE570)
C303	1-162-282-31	CERAMIC	100PF 10% 50V	C906	1-126-968-11	ELECT	100uF 20% 50V (FE370)
C305	1-126-933-11	ELECT	100uF 20% 16V	C906	1-128-576-11	ELECT	100uF 20% 63V (FE570)
C306	1-126-967-11	ELECT	47uF 20% 50V (FE370)	C907	1-161-494-00	CERAMIC	0.022uF 25V
C306	1-128-552-11	ELECT	47uF 20% 63V (FE570)	C908	1-104-660-11	ELECT	47uF 20% 16V
C307	1-126-965-11	ELECT	22uF 20% 50V (FE370)	C909	1-104-660-11	ELECT	47uF 20% 16V
C307	1-128-551-11	ELECT	22uF 20% 63V (FE570)	C910	1-126-933-11	ELECT	100uF 20% 16V
C308	1-126-965-11	ELECT	22uF 20% 50V (FE370)	C911	1-126-933-11	ELECT	100uF 20% 16V
C308	1-128-551-11	ELECT	22uF 20% 63V (FE570)	C912	1-136-153-00	FILM	0.01uF 5% 50V
C309	1-126-965-11	ELECT	22uF 20% 50V (FE370)	C913	1-126-964-11	ELECT	10uF 20% 50V
C309	1-128-551-11	ELECT	22uF 20% 63V (FE570)	C915	1-126-933-11	ELECT	100uF 20% 16V
C310	1-126-969-11	ELECT	220uF 20% 50V (FE370)	C916	1-126-963-11	ELECT	4.7uF 20% 50V
C310	1-128-553-11	ELECT	220uF 20% 63V (FE570)	< CONNECTOR >			
C311	1-136-165-00	MYLAR	0.1uF 5% 50V	CN811	1-691-767-11	PLUG (MICRO CONNECTOR) 5P	
C312	1-136-165-00	MYLAR	0.1uF 5% 50V	CN812	1-691-770-11	PLUG (MICRO CONNECTOR) 8P	
C313	1-104-660-11	ELECT	47uF 20% 16V	CN813	1-566-212-11	PIN, CONNECTOR 3P (EON CONTROL IN)	(FE570)
C314	1-162-211-11	CERAMIC	33PF 5% 50V	CN815	1-784-776-11	CONNECTOR, FFC 15P	
C315	1-126-969-11	ELECT	220uF 20% 50V (FE370)	CN901	1-691-767-11	PLUG (MICRO CONNECTOR) 5P	
C315	1-128-553-11	ELECT	220uF 20% 63V (FE570)	< DIODE >			
C351	1-126-964-11	ELECT	10uF 20% 50V	D101	8-719-911-19	DIODE 1SS119-25 (FE570)	
C352	1-162-290-31	CERAMIC	470PF 10% 50V	D301	8-719-911-19	DIODE 1SS119-25	
C353	1-162-282-31	CERAMIC	100PF 10% 50V	D302	8-719-911-19	DIODE 1SS119-25	
C355	1-126-933-11	ELECT	100uF 20% 16V	D351	8-719-911-19	DIODE 1SS119-25	
C356	1-126-967-11	ELECT	47uF 20% 50V (FE370)	D352	8-719-911-19	DIODE 1SS119-25	
C356	1-128-552-11	ELECT	47uF 20% 63V (FE570)	D601	8-719-911-19	DIODE 1SS119-25	
C361	1-136-165-00	MYLAR	0.1uF 5% 50V	D901	8-719-302-38	DIODE RBV-602-01	
C362	1-136-165-00	MYLAR	0.1uF 5% 50V	D902	8-719-986-25	DIODE HZS12A2LTA	
C363	1-104-660-11	ELECT	47uF 20% 16V	D903	8-719-986-25	DIODE HZS12A2LTA	
C364	1-162-211-11	CERAMIC	33PF 5% 50V	D904	8-719-024-99	DIODE 11ES2-NTA2B	
C601	1-126-961-11	ELECT	2.2uF 20% 50V	D905	8-719-024-99	DIODE 11ES2-NTA2B	
C602	1-126-934-11	ELECT	220uF 20% 10V	D906	8-719-024-99	DIODE 11ES2-NTA2B	
C603	1-104-660-11	ELECT	47uF 20% 16V	D907	8-719-024-99	DIODE 11ES2-NTA2B	
C812	1-164-159-11	CERAMIC	0.1uF 50V (FE570)	D909	8-719-024-99	DIODE 11ES2-NTA2B	
C900	1-136-153-00	FILM	0.01uF 5% 50V	< IC >			
C901	1-137-397-11	MYLAR	0.047uF 5% 100V	IC101	8-759-805-13	IC LC7821	
C902	1-137-397-11	MYLAR	0.047uF 5% 100V	IC102	8-759-184-02	IC NJM2068L-D	
C903	1-125-793-11	ELECT	8200uF 20% 56V (FE570)	IC301	8-749-921-04	IC STK4211MK2 (FE370)	
C903	1-125-815-11	ELECT	6800uF 20% 50V (FE370)	IC301	8-749-922-65	IC STK4221MK2 (FE570)	
C904	1-125-793-11	ELECT	8200uF 20% 56V (FE570)	IC601	8-759-111-68	IC uPC1237HA	
C904	1-125-815-11	ELECT	6800uF 20% 50V (FE370)	IC901	8-759-708-05	IC NJM78L05A	
				< JACK >			
J101	1-794-981-11	JACK, PIN 4P (PHONO IN, TUNER IN)		J101	1-794-981-11	JACK, PIN 4P (PHONO IN, TUNER IN)	
J102	1-793-776-12	JACK, PIN 6P (CD IN, AUX IN, TAPE2/MD RECOUT)		J102	1-793-776-12	JACK, PIN 6P (CD IN, AUX IN, TAPE2/MD RECOUT)	
J103	1-793-776-12	JACK, PIN 6P (TAPE2/MD IN, TAPE1/DAT RECOUT, TAPE1/DAT IN)		J103	1-793-776-12	JACK, PIN 6P (TAPE2/MD IN, TAPE1/DAT RECOUT, TAPE1/DAT IN)	
				< COIL >			
L301	1-420-872-00	COIL, AIR-CORE		L301	1-420-872-00	COIL, AIR-CORE	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
L351	1-420-872-00	COIL, AIR-CORE		R176	1-249-441-11	CARBON	100K 5% 1/4W
		< TRANSISTOR >		R207	1-249-425-11	CARBON	4.7K 5% 1/4W
				R257	1-249-425-11	CARBON	4.7K 5% 1/4W
Q101	8-729-141-26	TRANSISTOR	2SC3622A-LK	R301	1-249-439-11	CARBON	68K 5% 1/4W
Q102	8-729-119-76	TRANSISTOR	2SA1175-HFE	R302	1-249-417-11	CARBON	1K 5% 1/4W
Q103	8-729-119-79	TRANSISTOR	2SC2785-FEK (FE570)	R303	1-249-414-11	CARBON	560 5% 1/4W
Q104	8-729-119-79	TRANSISTOR	2SC2785-FEK	R304	1-249-439-11	CARBON	68K 5% 1/4W
Q151	8-729-141-26	TRANSISTOR	2SC3622A-LK	R305	1-260-107-11	CARBON	4.7K 5% 1/2W
Q301	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	R306	1-260-107-11	CARBON	4.7K 5% 1/2W
Q351	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	R307	1-249-405-11	CARBON	100 5% 1/4W
Q901	8-729-119-78	TRANSISTOR	2SC2785-HFE	R308	1-260-328-11	CARBON	1K 5% 1/2W
Q902	8-729-201-53	TRANSISTOR	2SA1015-GR	R309	1-260-328-11	CARBON	1K 5% 1/2W
Q903	8-729-119-79	TRANSISTOR	2SC2785-FEK	R310	1-249-405-11	CARBON	100 5% 1/4W
		< RESISTOR >		R312	1-249-421-11	CARBON	2.2K 5% 1/4W
R101	1-249-417-11	CARBON	1K 5% 1/4W	R313	1-249-433-11	CARBON	22K 5% 1/4W
R102	1-249-413-11	CARBON	470 5% 1/4W	△R314	1-244-164-11	WIREWOUND	0.22 10% 5W F
R104	1-249-437-11	CARBON	47K 5% 1/4W	R315	1-249-439-11	CARBON	68K 5% 1/4W
R105	1-249-416-11	CARBON	820 5% 1/4W	R316	1-260-300-11	CARBON	4.7 5% 1/2W
R106	1-247-897-11	CARBON	560K 5% 1/4W	R318	1-249-393-11	CARBON	10 5% 1/4W
R107	1-249-437-11	CARBON	47K 5% 1/4W	R320	1-249-385-11	CARBON	2.2 5% 1/6W
R108	1-249-441-11	CARBON	100K 5% 1/4W	R321	1-249-385-11	CARBON	2.2 5% 1/6W
R109	1-249-409-11	CARBON	220 5% 1/4W	R322	1-249-385-11	CARBON	2.2 5% 1/6W
R110	1-249-417-11	CARBON	1K 5% 1/4W	R351	1-249-439-11	CARBON	68K 5% 1/4W
R111	1-249-417-11	CARBON	1K 5% 1/4W	R352	1-249-417-11	CARBON	1K 5% 1/4W
R112	1-249-417-11	CARBON	1K 5% 1/4W	R353	1-249-414-11	CARBON	560 5% 1/4W
R113	1-249-417-11	CARBON	1K 5% 1/4W	R354	1-249-439-11	CARBON	68K 5% 1/4W
R114	1-249-417-11	CARBON	1K 5% 1/4W	R355	1-260-107-11	CARBON	4.7K 5% 1/2W
R115	1-249-417-11	CARBON	1K 5% 1/4W	R356	1-260-107-11	CARBON	4.7K 5% 1/2W
R116	1-249-417-11	CARBON	1K 5% 1/4W	R362	1-249-421-11	CARBON	2.2K 5% 1/4W
R117	1-249-417-11	CARBON	1K 5% 1/4W	R363	1-249-433-11	CARBON	22K 5% 1/4W
R118	1-249-425-11	CARBON	4.7K 5% 1/4W	△R364	1-244-164-11	WIREWOUND	0.22 10% 5W F
R119	1-249-425-11	CARBON	4.7K 5% 1/4W	R365	1-249-437-11	CARBON	47K 5% 1/4W
R120	1-249-409-11	CARBON	220 5% 1/4W	R366	1-260-300-11	CARBON	4.7 5% 1/2W
R121	1-249-437-11	CARBON	47K 5% 1/4W	R368	1-249-393-11	CARBON	10 5% 1/4W
R122	1-249-419-11	CARBON	1.5K 5% 1/4W	R601	1-260-095-11	CARBON	470 5% 1/2W
R123	1-249-427-11	CARBON	6.8K 5% 1/4W	R601	1-260-097-11	CARBON	680 5% 1/2W
R124	1-249-425-11	CARBON	4.7K 5% 1/4W				(FE370)
			(FE570)	R602	1-260-097-11	CARBON	680 5% 1/2W
R125	1-249-429-11	CARBON	10K 5% 1/4W	R603	1-249-417-11	CARBON	1K 5% 1/4W
R126	1-249-441-11	CARBON	100K 5% 1/4W				(FE570)
R151	1-249-417-11	CARBON	1K 5% 1/4W	R604	1-249-441-11	CARBON	100K 5% 1/4W
R152	1-249-413-11	CARBON	470 5% 1/4W	R605	1-249-439-11	CARBON	68K 5% 1/4W
R154	1-249-437-11	CARBON	47K 5% 1/4W	R606	1-249-431-11	CARBON	15K 5% 1/4W
R155	1-249-416-11	CARBON	820 5% 1/4W	R607	1-260-103-11	CARBON	2.2K 5% 1/2W
R156	1-247-897-11	CARBON	560K 5% 1/4W	R608	1-260-103-11	CARBON	2.2K 5% 1/2W
R157	1-249-437-11	CARBON	47K 5% 1/4W	R832	1-249-393-11	CARBON	10 5% 1/4W
R158	1-249-441-11	CARBON	100K 5% 1/4W				(FE570)
R159	1-249-409-11	CARBON	220 5% 1/4W	R901	1-249-385-11	CARBON	2.2 5% 1/6W
R160	1-249-417-11	CARBON	1K 5% 1/4W	R902	1-260-097-11	CARBON	680 5% 1/2W
R161	1-249-417-11	CARBON	1K 5% 1/4W				(FE370)
R162	1-249-417-11	CARBON	1K 5% 1/4W	R902	1-260-328-11	CARBON	1K 5% 1/2W
R163	1-249-417-11	CARBON	1K 5% 1/4W				(FE570)
R164	1-249-417-11	CARBON	1K 5% 1/4W	R903	1-260-097-11	CARBON	680 5% 1/2W
R165	1-249-417-11	CARBON	1K 5% 1/4W				(FE370)
R166	1-249-417-11	CARBON	1K 5% 1/4W	R903	1-260-328-11	CARBON	1K 5% 1/2W
							(FE570)
R167	1-249-417-11	CARBON	1K 5% 1/4W	R904	1-260-097-11	CARBON	680 5% 1/2W
R168	1-249-425-11	CARBON	4.7K 5% 1/4W	R905	1-260-097-11	CARBON	680 5% 1/2W

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

# TA-FE370/FE570

<b>MAIN</b>	<b>POWER SW</b>	<b>SPEAKER SW</b>	<b>STANDBY</b>	<b>VOLUME</b>
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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R907	1-260-328-11	CARBON	1K 5% 1/2W (FE370)	CN2	1-564-321-00	PIN, CONNECTOR 2P	
R907	1-260-330-11	CARBON	1.5K 5% 1/2W (FE570)	CN3	1-564-321-00	PIN, CONNECTOR 2P	
R908	1-260-328-11	CARBON	1K 5% 1/2W	CN902	1-691-767-11	PLUG (MICRO CONNECTOR) 5P	
R910	1-249-429-11	CARBON	10K 5% 1/4W			< DIODE >	
R912	1-249-429-11	CARBON	10K 5% 1/4W	D911	8-719-911-19	DIODE 1SS119-25	
R913	1-249-433-11	CARBON	22K 5% 1/4W	D912	8-719-024-99	DIODE 11ES2-NTA2B	
R916	1-249-419-11	CARBON	1.5K 5% 1/4W	D913	8-719-024-99	DIODE 11ES2-NTA2B	
		< RELAY >		D914	8-719-024-99	DIODE 11ES2-NTA2B	
RY101	1-515-614-11	RELAY (FE570)		D915	8-719-024-99	DIODE 11ES2-NTA2B	
RY601	1-515-920-11	RELAY (24V)		D916	8-719-024-99	DIODE 11ES2-NTA2B	
		< TERMINAL >				< FUSE >	
TM301	1-694-791-11	TERMINAL BOARD (SPEAKERS)		△ F1	1-532-503-31	FUSE (T1.6AL/250V) (FE370)	
*****							
	1-681-421-11	POWER SW BOARD		△ F3	1-532-388-31	FUSE (T2AL/250V) (FE570)	
		*****				< RESISTOR >	
		< CONNECTOR >		R914	1-249-385-11	CARBON 2.2 5% 1/6W	
CN807	1-568-668-11	CONNECTOR, BOARD TO BOARD 6P		R915	1-247-807-31	CARBON 100 5% 1/4W	
		< LED >				< RELAY >	
D822	8-719-058-04	LED SEL5223S-TP15 (STANDBY)		△ RY1	1-755-276-11	RELAY, POWER	
		< IC >				< TRANSFORMER >	
IC803	8-759-459-86	IC NJL64H400A (REMOTE CONTROL RECEIVER)		△ T2	1-433-735-11	TRANSFORMER, POWER	
		< RESISTOR >		*****			
R833	1-249-421-11	CARBON 2.2K 5% 1/4W			1-681-420-11	VOLUME BOARD	
		< SWITCH >				*****	
S1	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)				< VARIABLE RESISTOR >	
*****							
	1-681-424-11	SPEAKER SW BOARD		RV202	1-241-426-11	RES, VAR, CARBON 100K/100K (VOLUME)	
		*****		*****			
		< SWITCH >				MISCELLANEOUS	
S205	1-771-099-11	SWITCH, ROTARY (SPEAKERS)				*****	
*****							
	1-681-418-11	STANDBY BOARD		60	1-773-025-11	WIRE (FLAT TYPE) (15 CORE)	
		*****		△ 104	1-575-651-21	CORD, POWER	
	1-533-217-41	HOLDER, FUSE		△ CN4	1-526-794-11	OUTLET, AC (AEP)	
		< CAPACITOR >		△ CN5	1-526-794-11	OUTLET, AC (AEP)	
△ C1	1-113-924-11	CERAMIC 0.0047uF 20% 250V		△ CN6	1-526-794-11	OUTLET, AC (AEP)	
C809	1-126-961-11	ELECT 2.2uF 20% 50V		△ T1	1-437-254-11	TRANSFORMER, POWER (FE570)	
C917	1-162-306-11	CERAMIC 0.01uF 30% 16V		△ T1	1-437-255-11	TRANSFORMER, POWER (FE370)	
C919	1-126-941-11	ELECT 470uF 20% 25V		*****			
		< CONNECTOR >				ACCESSORIES & PACKING MATERIALS	
* CN1	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P				*****	

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MEMO

