TA-FE370/FE570

SERVICE MANUAL

AEP Model
UK Model

Ver. 1.2 2006.02

Photo: TA-FE570

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 ±1.0 dB
TUNER, CD, AUX, TAPE1/DAT, TAPE2/MD: 7 Hz - 70 kHz $^{+0}_{-3}$ 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

9-873-838-13
2006B05-1
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Sony Corporation
Home Audio Division
Published by Sony Techno Create Corporation

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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

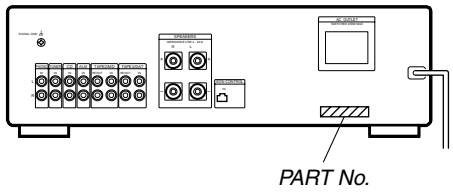
6. ELECTRICAL PARTS LIST 18

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.

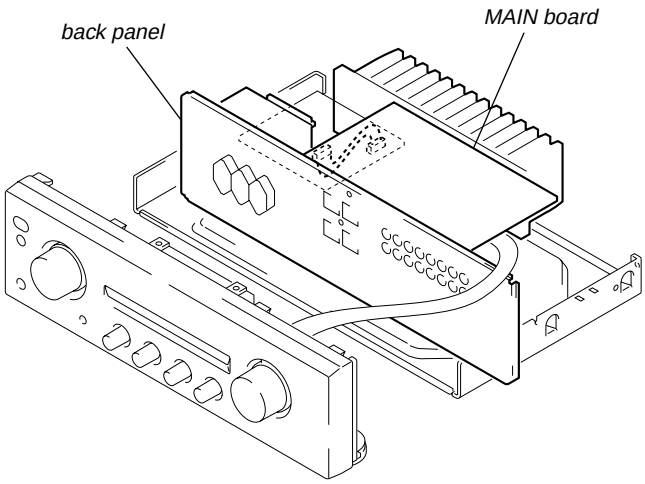
SECTION 1
SERVICING NOTES

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.



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

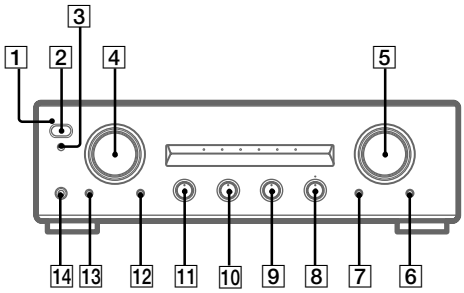
: LEAD FREE MARK
Unleaded solder has the following characteristics.
- Unleaded solder melts at a temperature about 40 ˚C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature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

SECTION 2
GENERAL

This section is extracted from instruction manual.

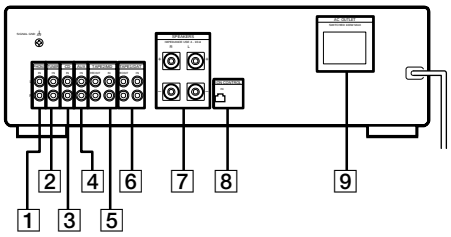
LOCATION OF CONTROLS

- **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
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**

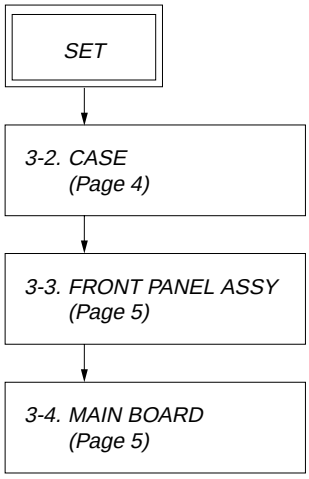


1 PHONO jack
2 TUNER jack
3 CD jack
4 AUX jack
5 TAPE2/MD jack
6 TAPE1/DAT jack
7 SPEAKERS terminal
8 EON CONTROL connector (FE570)
9 AC OUTLET connector (AEP model)

SECTION 3
DISASSEMBLY

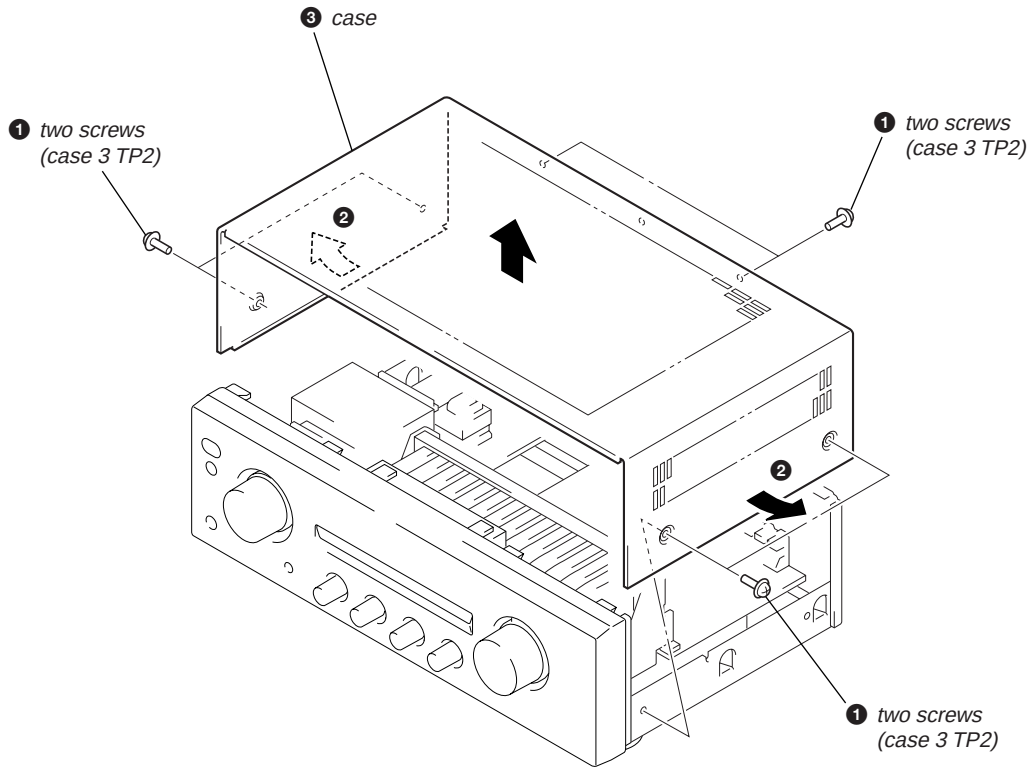
• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

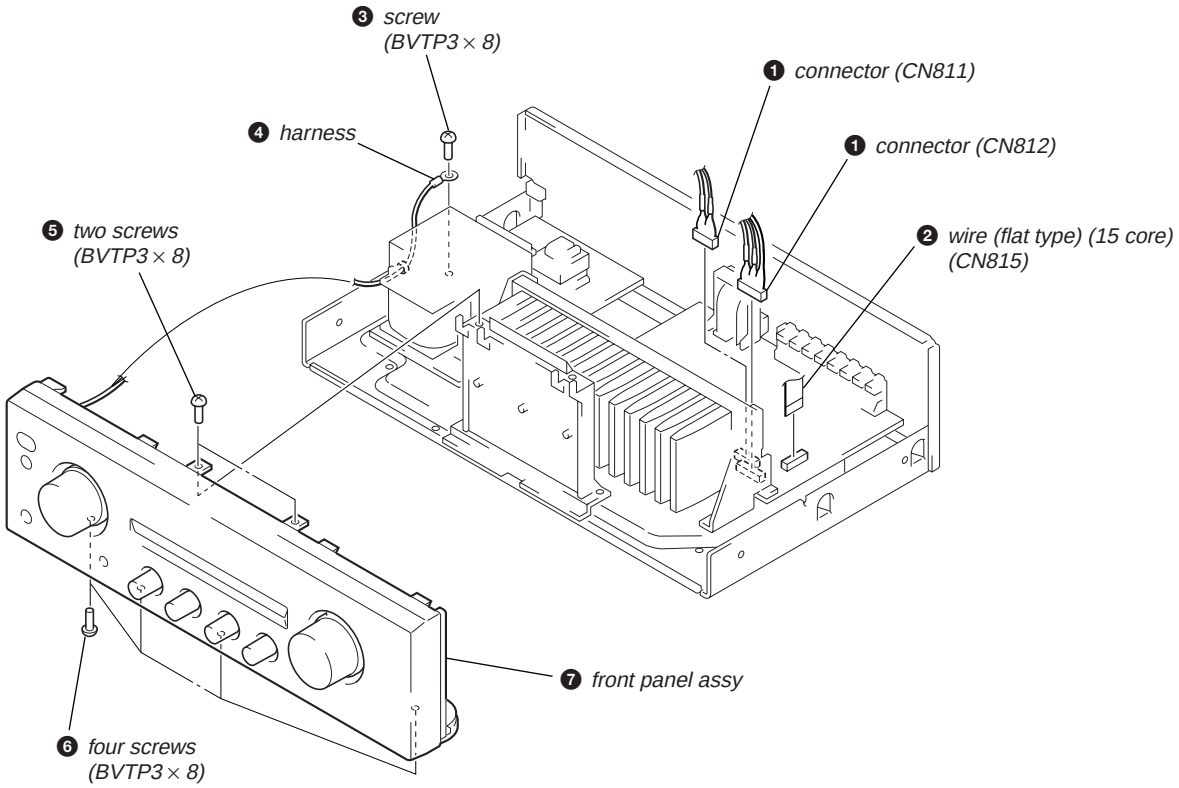


Note: Follow the disassembly procedure in the numerical order given.

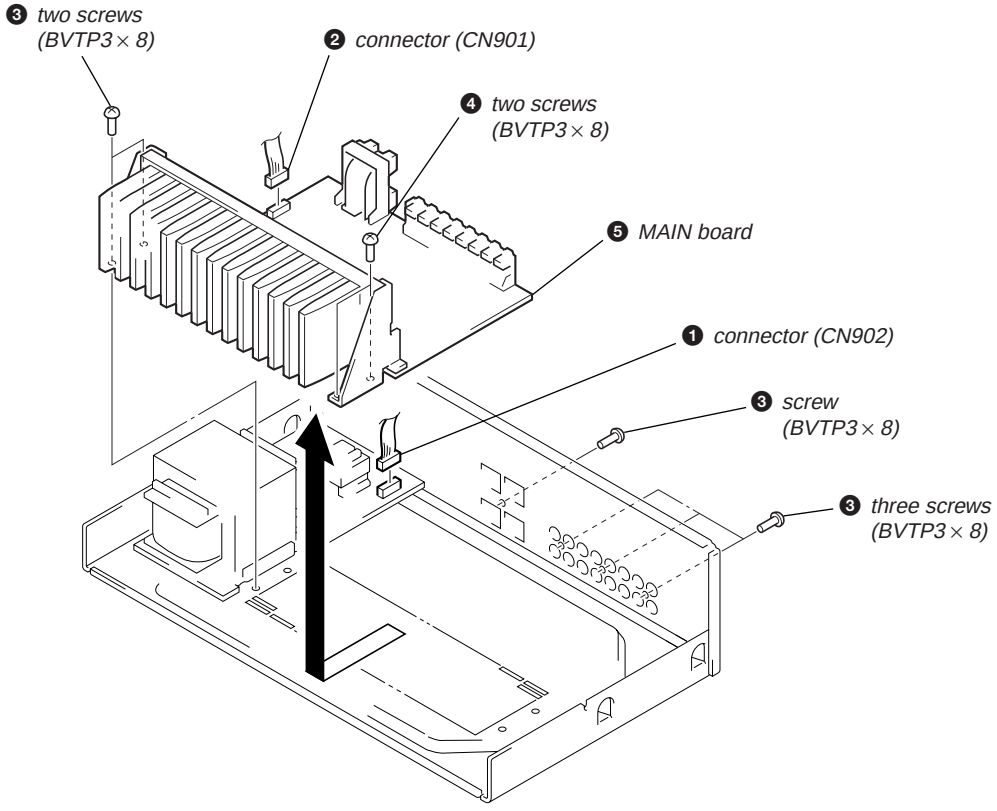
3-2. CASE



3-3. FRONT PANEL ASSY



3-4. MAIN BOARD



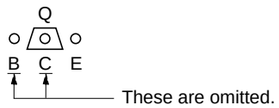
MEMO

SECTION 4
DIAGRAMS

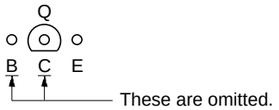
4-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

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



These are omitted.



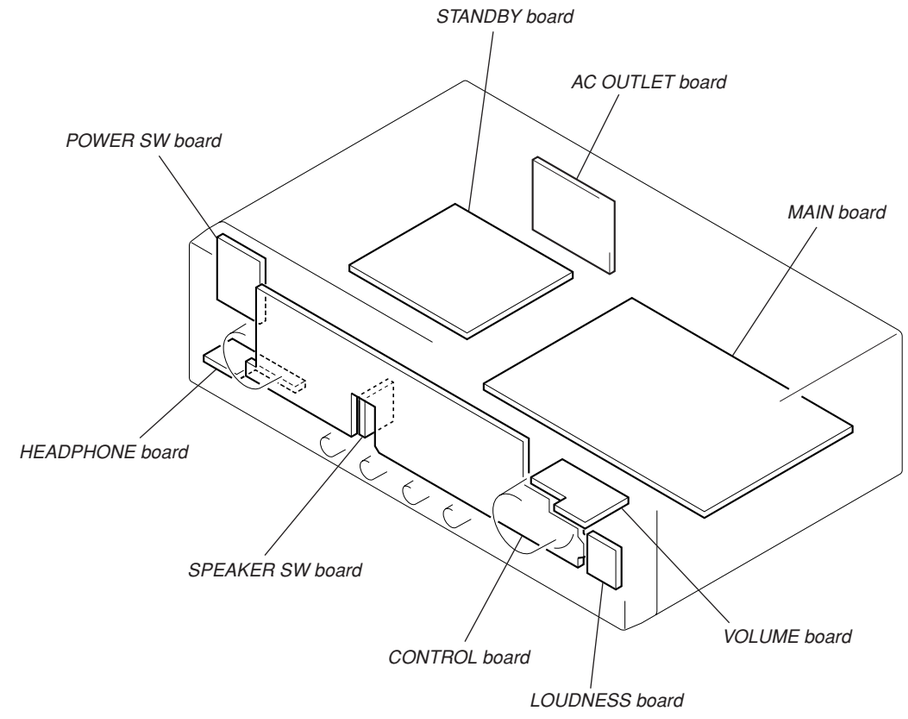
These are omitted.

Note on Schematic Diagram:
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : panel designation.

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

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

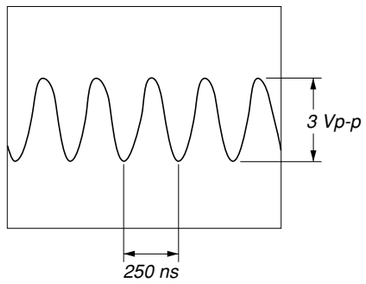
- **Circuit Boards Location**



- **Waveform**

– CONTROL Board –

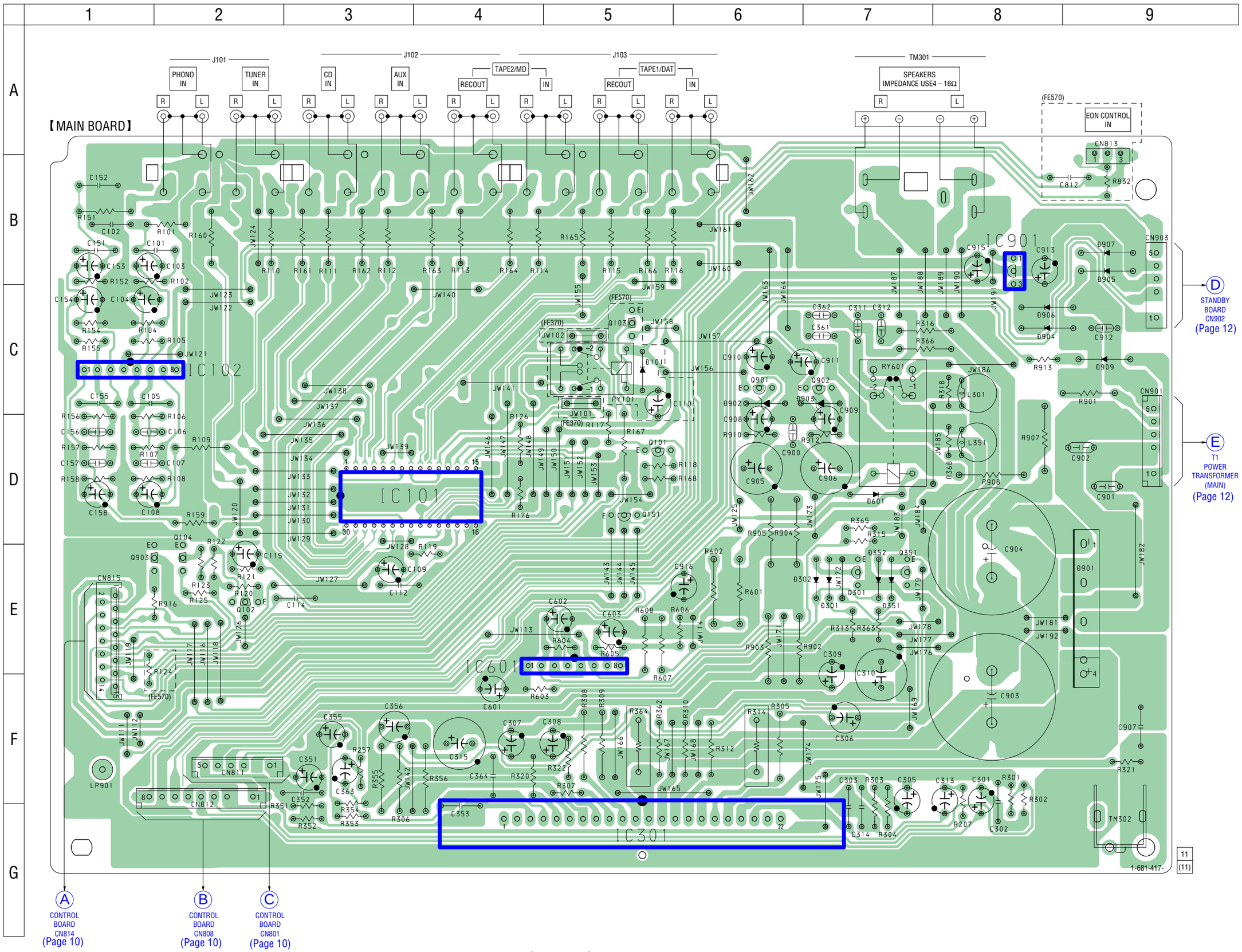
❶ IC801 ① (XOUT)



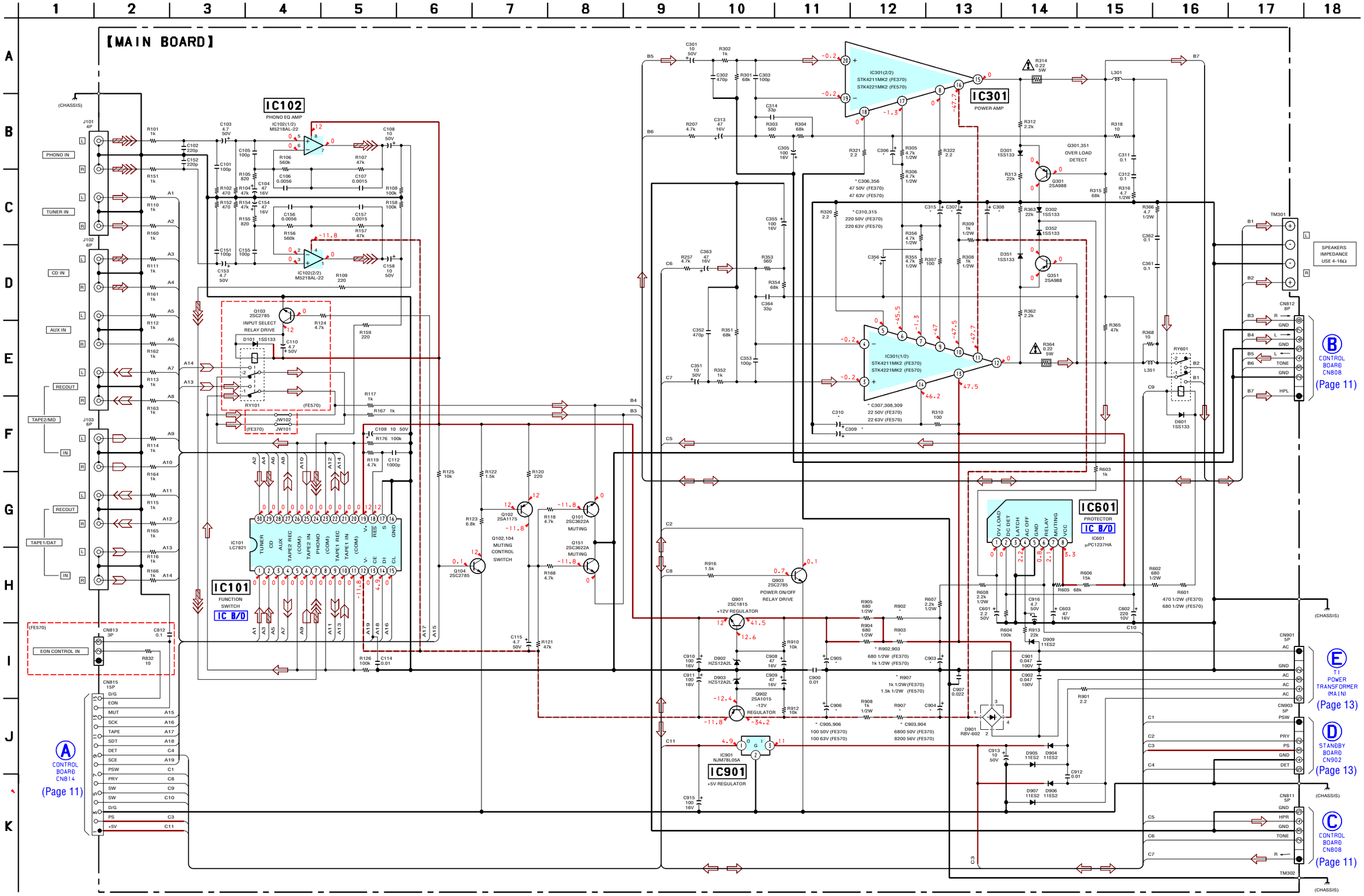
4-2. PRINTED WIRING BOARD – MAIN Board – • See page 7 for Circuit Boards Location. :Uses unleaded solder.

- **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-9
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	E-7
Q901	C-6
Q902	C-7
Q903	E-1



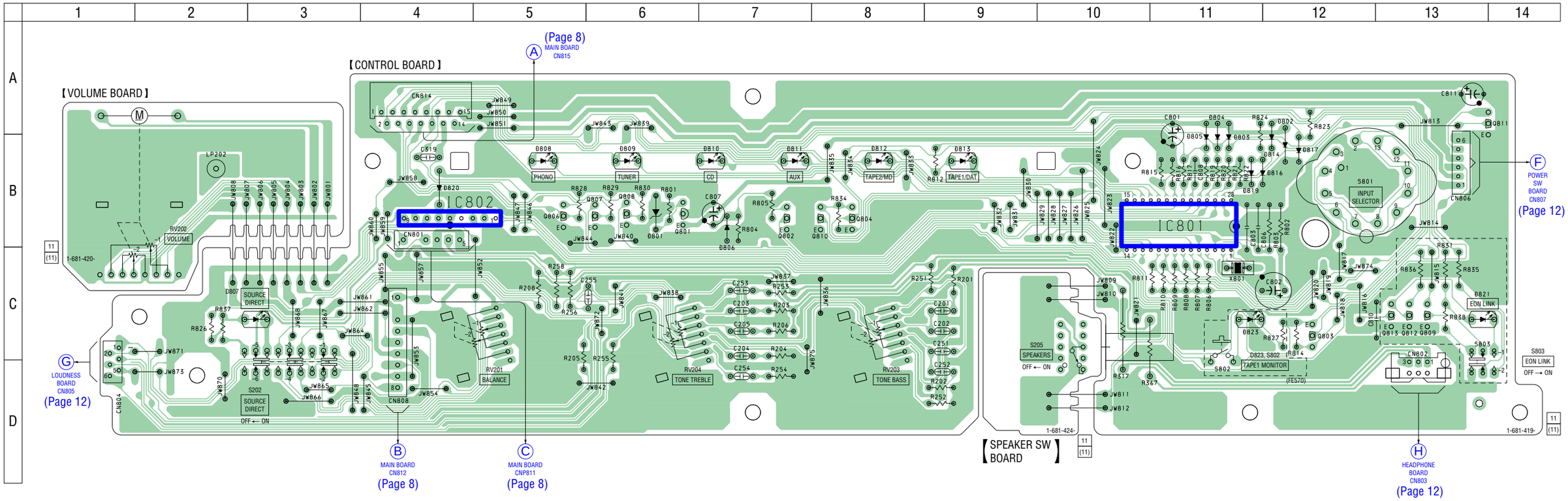
4-3. SCHEMATIC DIAGRAM – MAIN Board – • See page 14 for IC Block Diagrams.



4-4. PRINTED WIRING BOARDS – CONTROL/SPEAKER SW/VOLUME Boards –

• See page 7 for Circuit Boards Location.

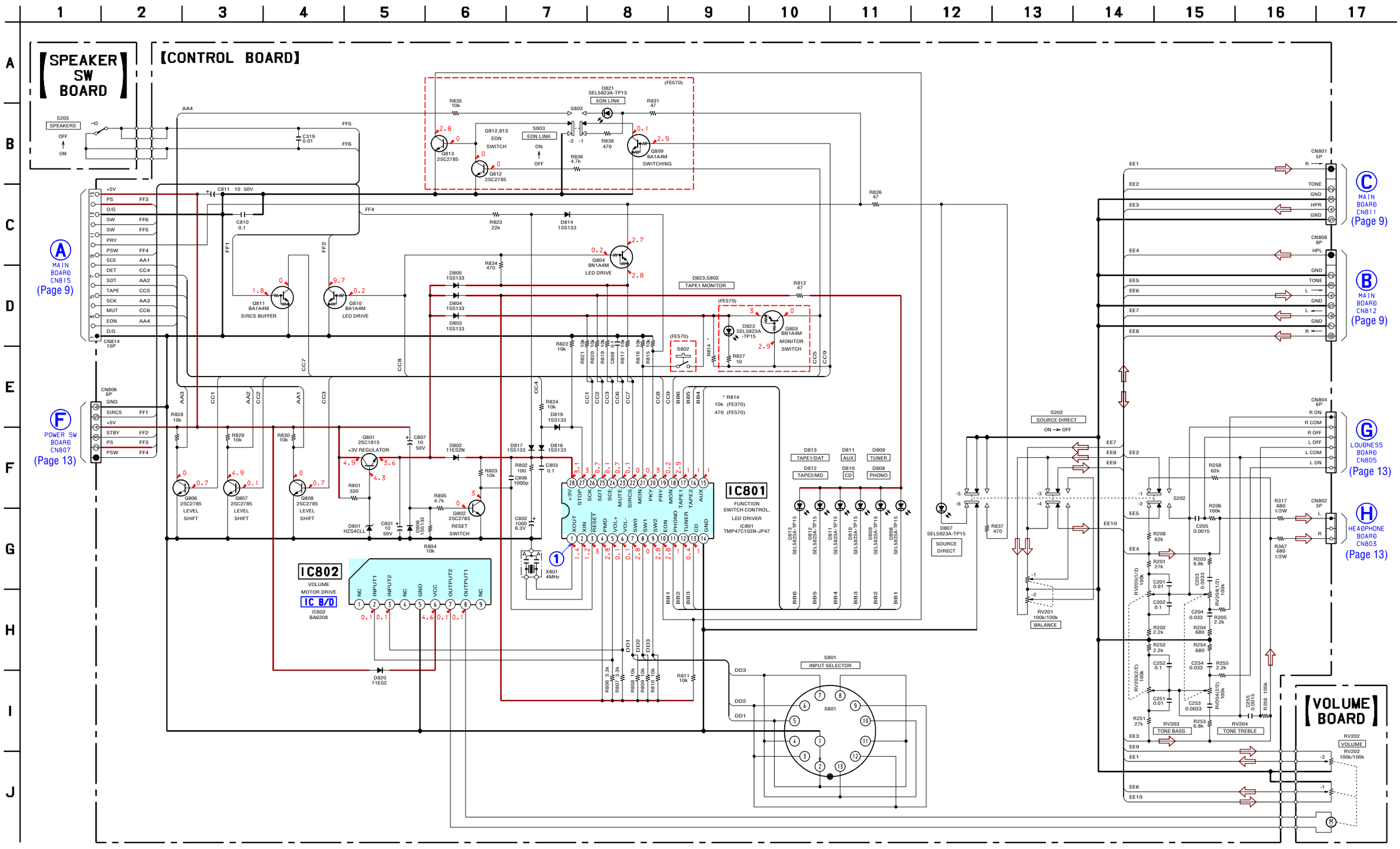
:Uses unleaded solder.



- **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	B-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.



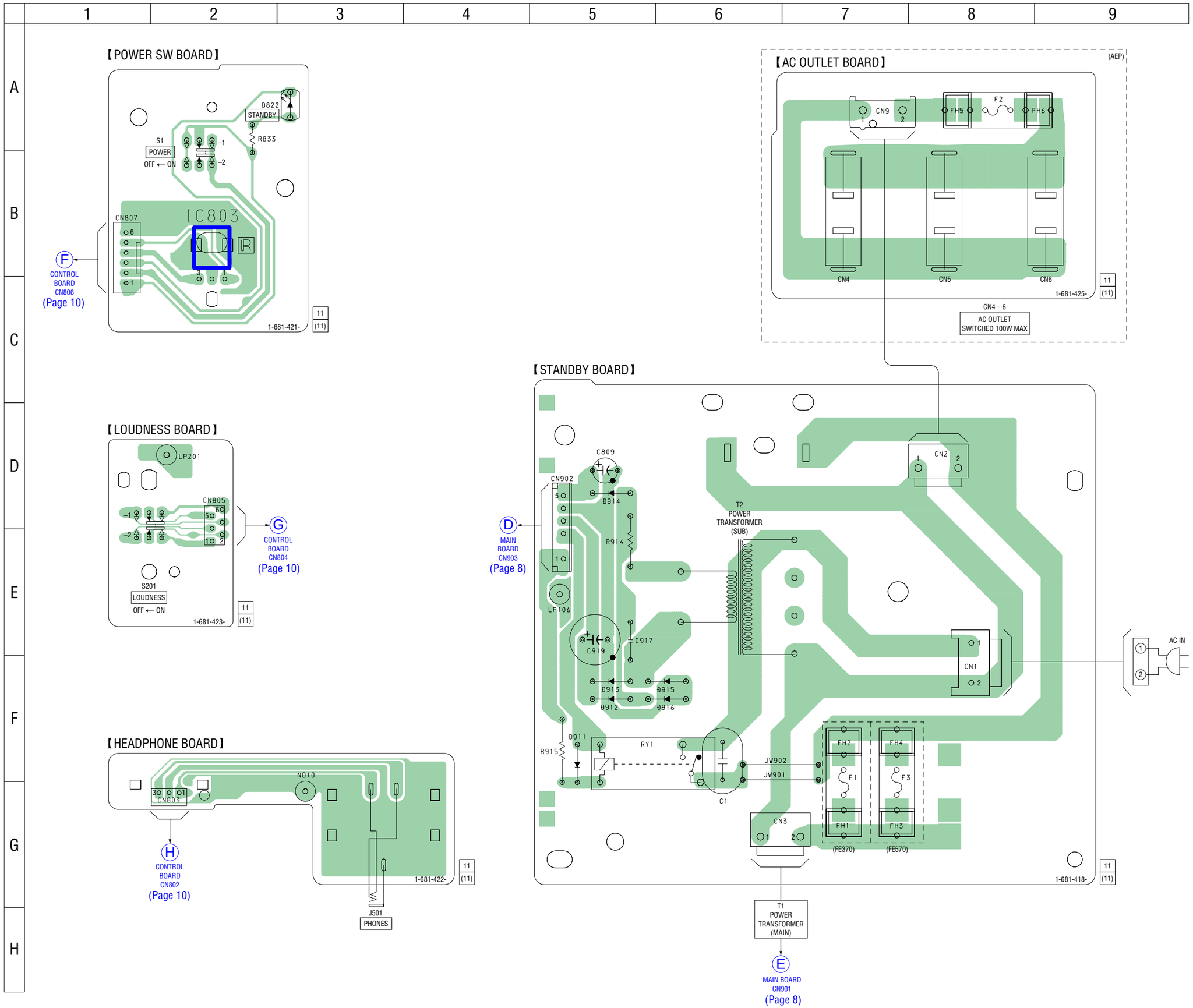
4-6. PRINTED WIRING BOARDS – AC OUTLET/HEADPHONE/LOUDNESS/POWER SW/STANDBY Boards –

• See page 7 for Circuit Boards Location.

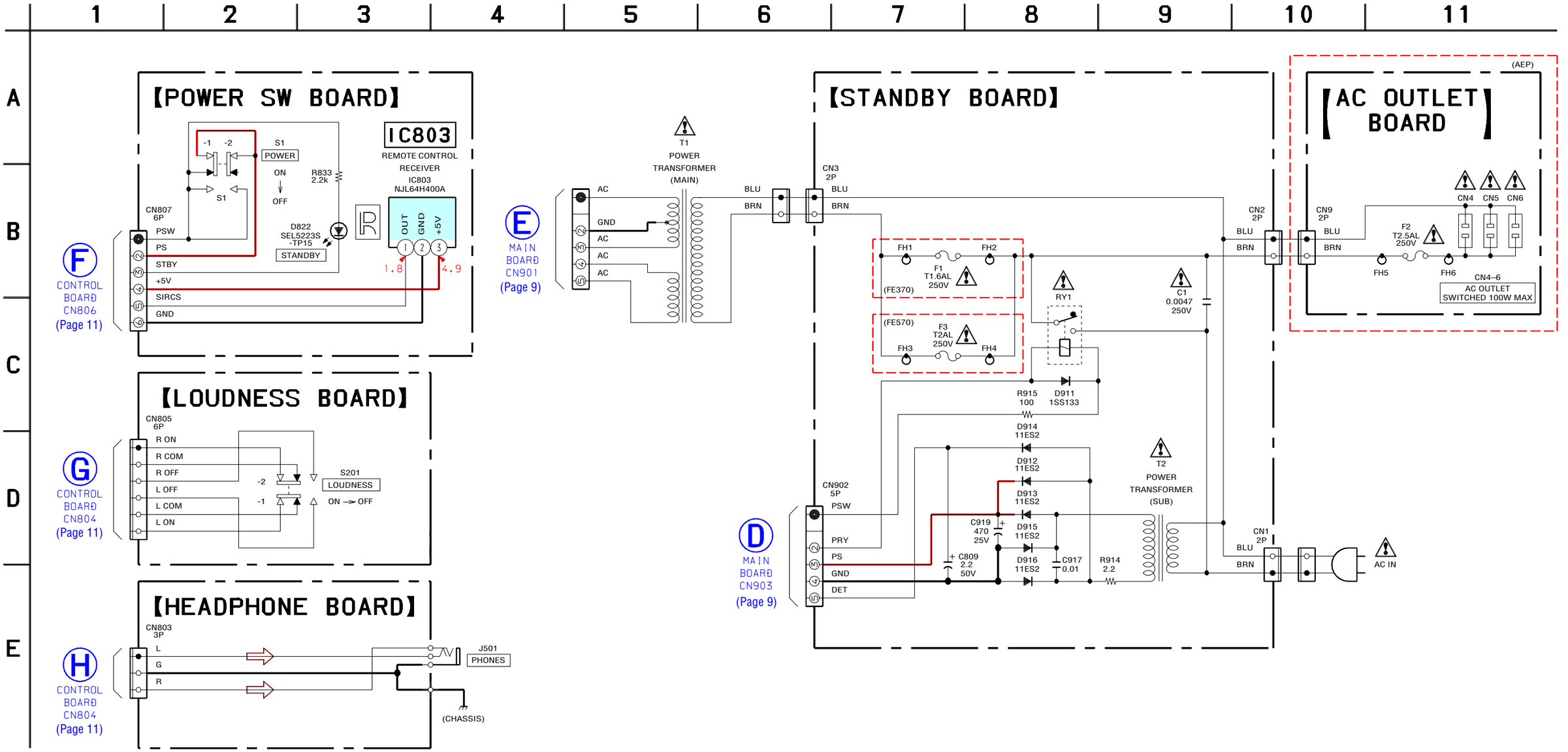
:Uses unleaded solder.

- **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



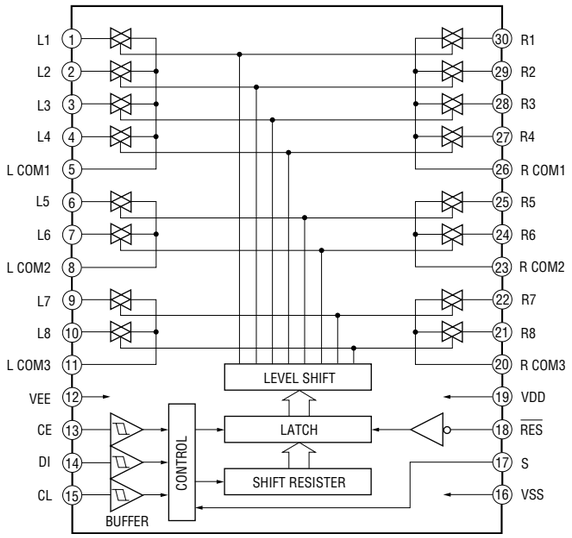
4-7. SCHEMATIC DIAGRAM – AC OUTLET/HEADPHONE/LOUDNESS/POWER SW/STANDBY Boards –



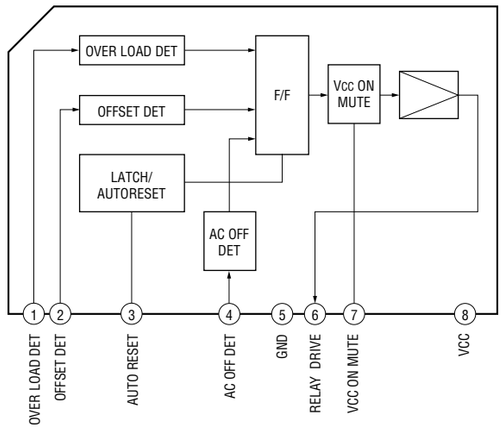
• **IC Block Diagrams**

– MAIN Board –

IC101 LC7821

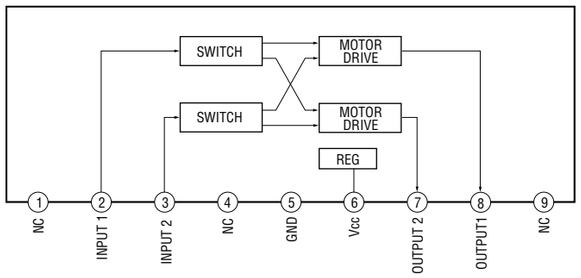


IC601 μPC1237HA



– CONTROL Board –

IC802 BA6208



4-8. IC PIN FUNCTION DESCRIPTION

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

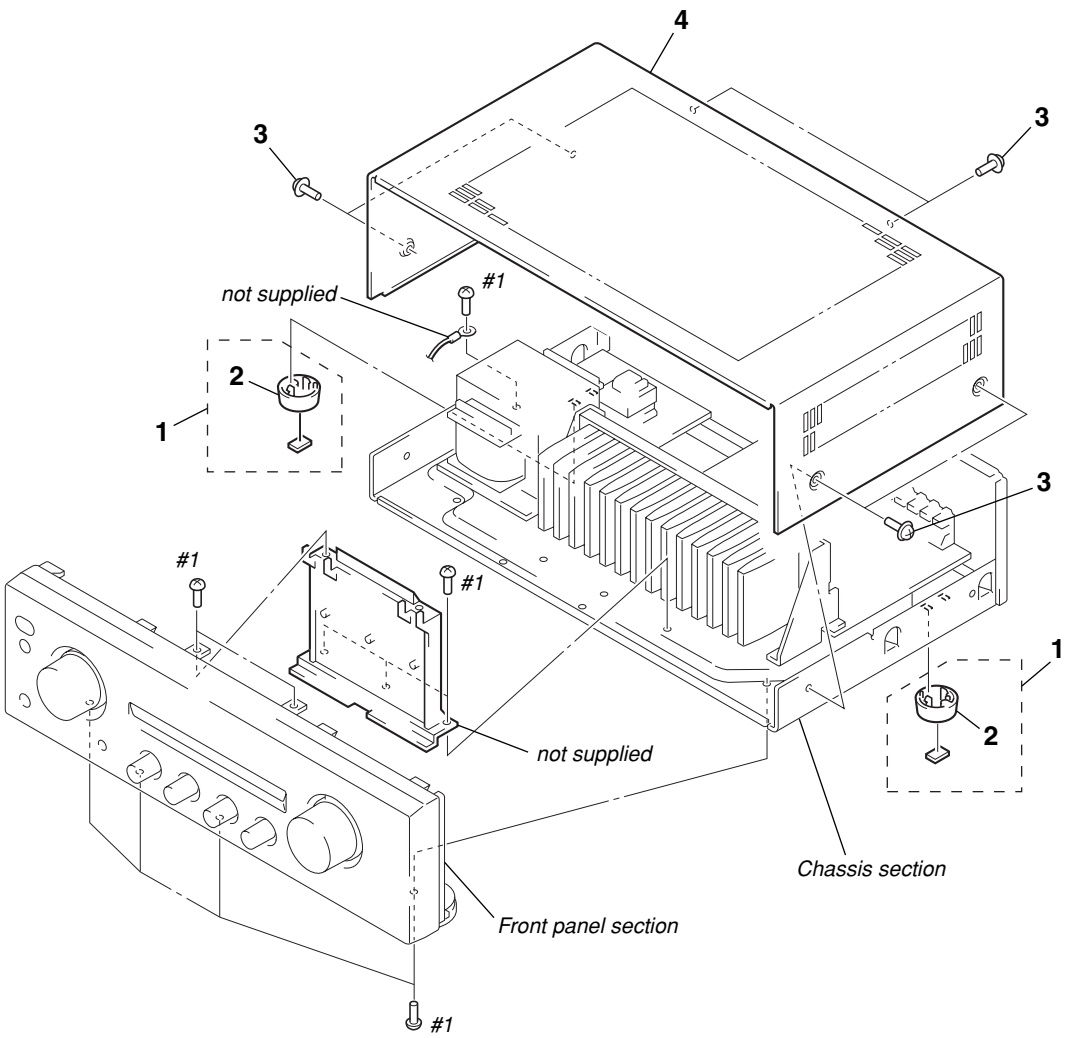
Pin No.	Pin Name	I/O	Description
1	XOUT	O	Main system clock output terminal (4 MHz)
2	XIN	I	Main system clock input terminal (4 MHz)
3	$\overline{\text{RESET}}$	I	System reset signal input terminal “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
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.

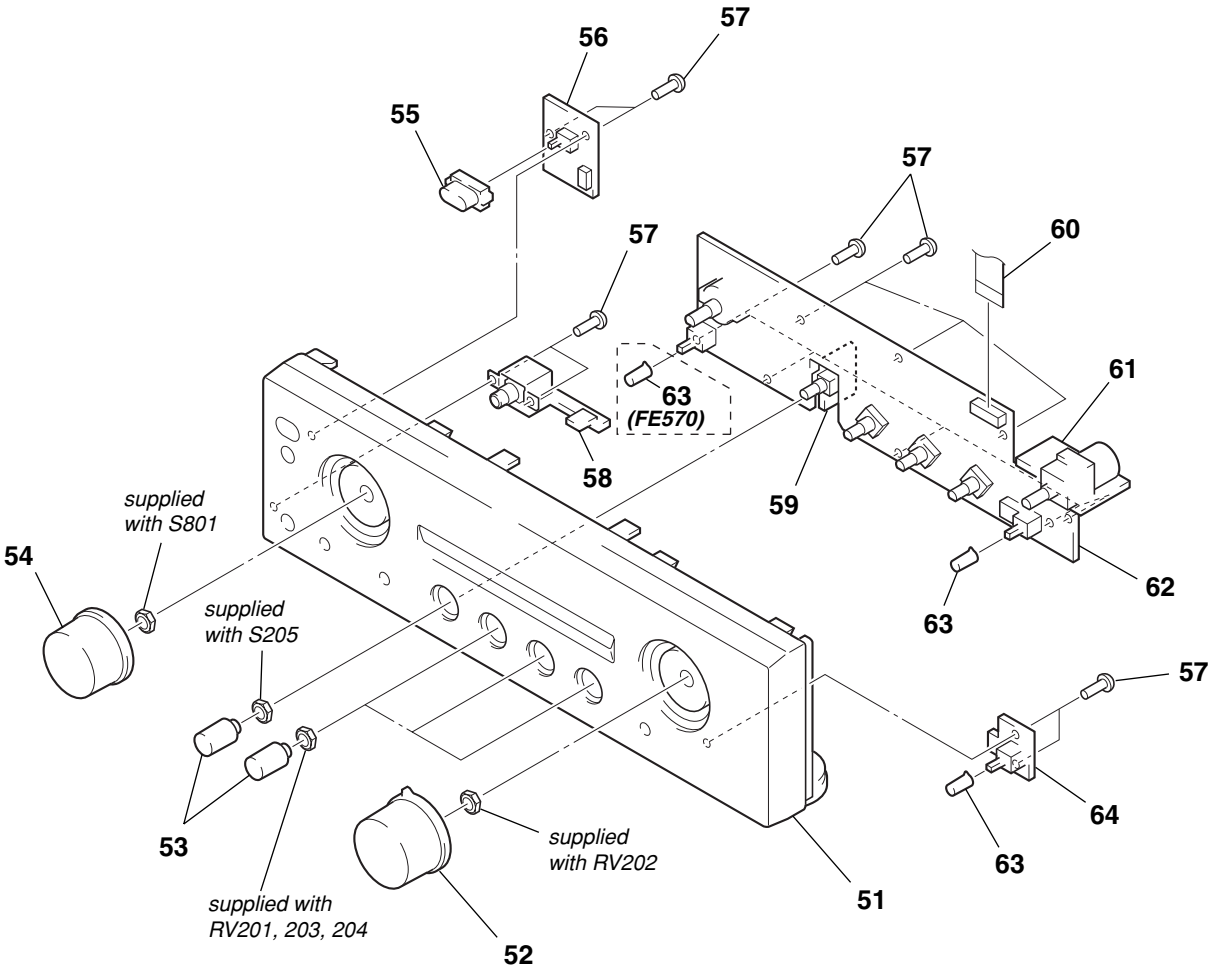
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

5-1. CASE SECTION



Ref. No.	Part No.	Description	Remark
1	X-4953-448-1	FOOT ASSY	
2	4-232-237-01	FOOT (DIA. 30)	
3	3-363-099-02	SCREW (CASE 3 TP2) (BLACK)	
3	3-363-099-11	SCREW (CASE 3 TP2) (SILVER) (FE370)	
4	4-233-360-11	CASE (BLACK)	
4	4-233-360-31	CASE (SILVER) (FE370)	
4	4-233-360-71	CASE (SILVER: for Hair-line Finish) (FE370)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S)	

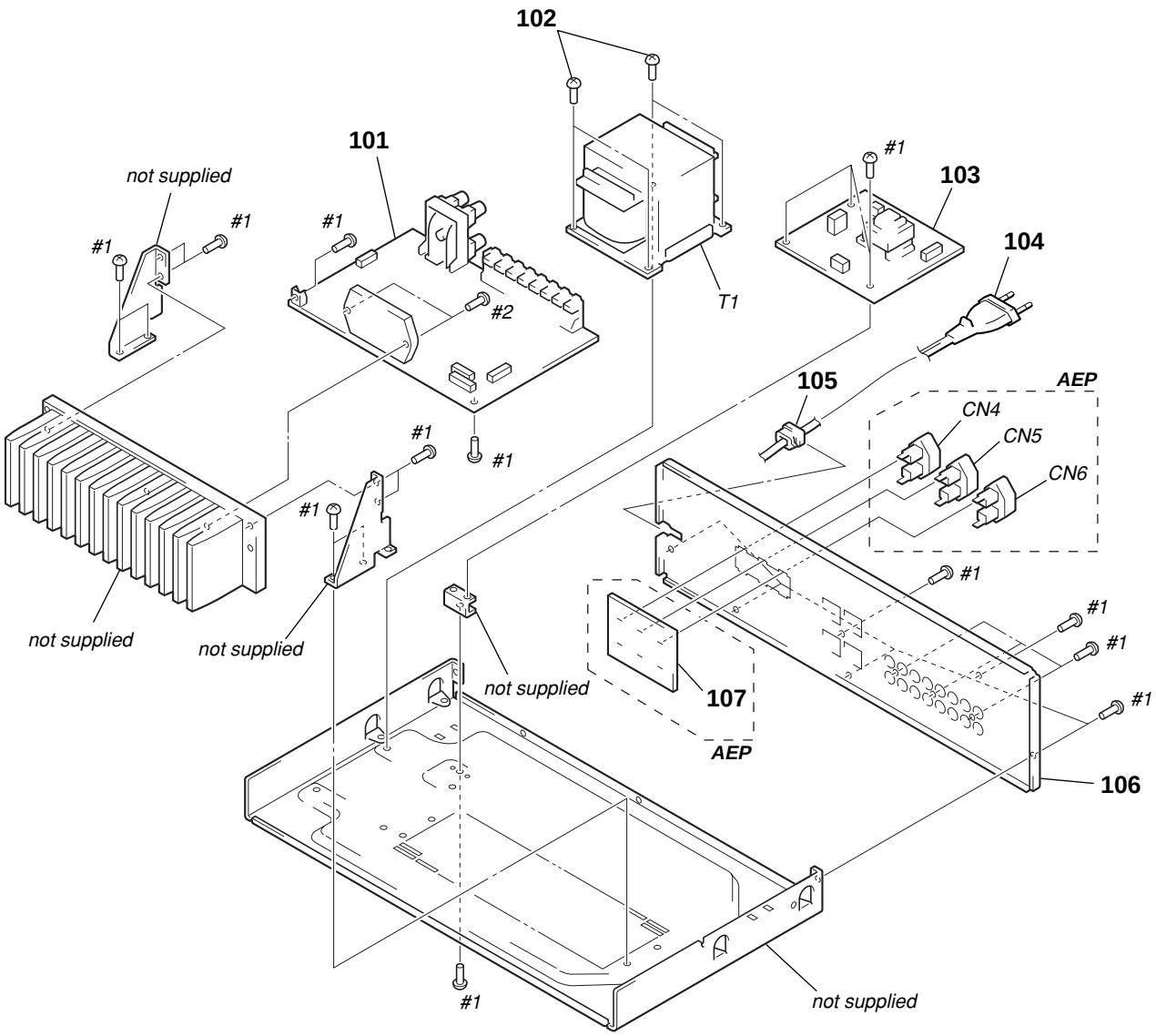
5-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-2108-509-1	PANEL ASSY, FRONT (SILVER: Hair-line Finish)	(FE370)
51	X-4953-702-3	PANEL ASSY, FRONT (BLACK) (FE570)	
51	X-4953-703-2	PANEL ASSY, FRONT (BLACK) (FE370)	
51	X-4953-719-2	PANEL ASSY, FRONT (SILVER) (FE370)	
52	X-2108-510-1	KNOB (VOLUME) ASSY	(SILVER: for Hair-line Finish) (FE370)
52	X-4953-705-1	KNOB (VOLUME) ASSY (BLACK)	
52	X-4953-706-2	KNOB (VOLUME) ASSY (SILVER) (FE370)	
53	4-233-365-01	KNOB (SP) (BLACK)	
53	4-233-365-12	KNOB (SP) (SILVER)	
53	4-233-365-21	KNOB (SP) (SILVER: for Hair-line Finish)	(FE370)
54	4-233-364-01	KNOB (FUNC) (BLACK)	
54	4-233-364-11	KNOB (FUNC) (SILVER) (FE370)	
54	4-233-364-21	KNOB (FUNC) (SILVER: for Hair-line Finish)	(FE370)
55	4-231-973-31	BUTTON (POWER) (BLACK)	

Ref. No.	Part No.	Description	Remark
55	4-231-973-41	BUTTON (POWER) (SILVER) (FE370)	
55	4-231-973-61	BUTTON (POWER)	(SILVER: for Hair-line Finish) (FE370)
56	1-681-421-11	POWER SW BOARD	
57	4-951-620-01	SCREW (2.6X8), +BVTP	
58	1-681-422-11	HEADPHONE BOARD	
59	1-681-424-11	SPEAKER SW BOARD	
60	1-773-025-11	WIRE (FLAT TYPE) (15 CORE)	
61	1-681-420-11	VOLUME BOARD	
62	A-4476-573-A	CONTROL BOARD, COMPLETE (FE570)	
62	A-4476-583-A	CONTROL BOARD, COMPLETE (FE370)	
63	4-980-189-01	KNOB (DIA. 6) (BLACK)	
63	4-980-189-21	KNOB (DIA. 6) (SILVER) (FE370)	
63	4-980-189-31	KNOB (DIA. 6) (SILVER: for Hair-line Finish)	(FE370)
64	1-681-423-11	LOUDNESS BOARD	

5-3. CHASSIS SECTION



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

AC OUTLET

CONTROL

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: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ 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
	1-681-425-11	AC OUTLET BOARD (AEP)			
		**********			
	1-533-217-41	HOLDER, FUSE			
		< FUSE >			
⚠F2	1-532-464-31	FUSE (T2.5AL/250V)			
**********					
	A-4476-573-A	CONTROL BOARD, COMPLETE (FE570)			
	A-4476-583-A	CONTROL BOARD, COMPLETE (FE370)			
		**********			
		< CAPACITOR >			
C201	1-136-153-00	FILM	0.01uF	5%	50V
C202	1-136-165-00	MYLAR	0.1uF	5%	50V
C203	1-130-477-00	MYLAR	0.0033uF	5%	50V
C204	1-136-159-00	MYLAR	0.033uF	5%	50V
C205	1-130-473-00	MYLAR	0.0015uF	5%	50V
C251	1-136-153-00	FILM	0.01uF	5%	50V
C252	1-136-165-00	MYLAR	0.1uF	5%	50V
C253	1-130-477-00	MYLAR	0.0033uF	5%	50V
C254	1-136-159-00	MYLAR	0.033uF	5%	50V
C255	1-130-473-00	MYLAR	0.0015uF	5%	50V
C319	1-136-153-00	FILM	0.01uF	5%	50V
C801	1-126-795-11	ELECT	10uF	20%	50V
C802	1-126-916-11	ELECT	1000uF	20%	6.3V
C803	1-164-159-11	CERAMIC	0.1uF		50V
C806	1-162-294-31	CERAMIC	0.001uF	10%	50V
C807	1-126-795-11	ELECT	10uF	20%	50V
C808	1-164-159-11	CERAMIC	0.1uF		50V
C810	1-164-159-11	CERAMIC	0.1uF		50V
C811	1-126-795-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
CN802	1-770-396-11	HOUSING, CONNECTOR (PC BOARD) 3P			
CN804	1-750-195-11	CONNECTOR, BOARD TO BOARD 6P			
CN806	1-770-143-11	CONNECTOR, BOARD TO BOARD 6P			
CN814	1-784-737-21	CONNECTOR, FFC 15P			
		< DIODE >			
D801	8-719-985-59	DIODE HZS4CLL			
D802	8-719-024-99	DIODE 11ES2-NTA2B			
D803	8-719-911-19	DIODE 1SS119-25			
D804	8-719-911-19	DIODE 1SS119-25			

Ref. No.	Part No.	Description	Remark
D805	8-719-911-19	DIODE 1SS119-25	
D806	8-719-911-19	DIODE 1SS119-25	
D807	8-719-058-64	LED SEL5823A-TP15 (SOURCE DIRECT)	
D808	8-719-058-64	LED SEL5823A-TP15 (PHONO)	
D809	8-719-058-64	LED SEL5823A-TP15 (TUNER)	
D810	8-719-058-64	LED SEL5823A-TP15 (CD)	
D811	8-719-058-64	LED SEL5823A-TP15 (AUX)	
D812	8-719-058-64	LED SEL5823A-TP15 (TAPE2/MD)	
D813	8-719-058-64	LED SEL5823A-TP15 (TAPE1/DAT)	
D814	8-719-911-19	DIODE 1SS119-25	
D816	8-719-911-19	DIODE 1SS119-25	
D817	8-719-911-19	DIODE 1SS119-25	
D819	8-719-911-19	DIODE 1SS119-25	
D820	8-719-024-99	DIODE 11ES2-NTA2B	
D821	8-719-058-64	LED SEL5823A-TP15 (EON LINK) (FE570)	
D823	8-719-058-64	LED SEL5823A-TP15 (TAPE1 MONITOR) (FE570)	
		< IC >	
IC801	8-759-392-41	IC TMP47C103N-JP47	
IC802	8-759-962-08	IC BA6208	
		< TRANSISTOR >	
Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q802	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q803	8-729-422-57	TRANSISTOR UN4111 (FE570)	
Q804	8-729-422-57	TRANSISTOR UN4111	
Q806	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q807	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q808	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q809	8-729-900-80	TRANSISTOR DTC114ES (FE570)	
Q810	8-729-900-80	TRANSISTOR DTC114ES	
Q811	8-729-900-80	TRANSISTOR DTC114ES	
Q812	8-729-119-79	TRANSISTOR 2SC2785-FEK (FE570)	
Q813	8-729-119-79	TRANSISTOR 2SC2785-FEK (FE570)	
		< RESISTOR >	
R201	1-249-434-11	CARBON 27K 5% 1/4W	
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
R208	1-247-874-11	CARBON	62K	5%	1/4W
R251	1-249-434-11	CARBON	27K	5%	1/4W
R252	1-249-421-11	CARBON	2.2K	5%	1/4W
R253	1-249-427-11	CARBON	6.8K	5%	1/4W
R254	1-249-415-11	CARBON	680	5%	1/4W
R255	1-249-421-11	CARBON	2.2K	5%	1/4W
R256	1-249-441-11	CARBON	100K	5%	1/4W
R258	1-247-874-11	CARBON	62K	5%	1/4W
R317	1-249-798-11	CARBON	680	5%	1/2W
R367	1-249-798-11	CARBON	680	5%	1/2W
R801	1-249-411-11	CARBON	330	5%	1/4W
R802	1-247-807-31	CARBON	100	5%	1/4W
R803	1-249-429-11	CARBON	10K	5%	1/4W
R804	1-249-429-11	CARBON	10K	5%	1/4W
R805	1-249-425-11	CARBON	4.7K	5%	1/4W
R806	1-247-843-11	CARBON	3.3K	5%	1/4W
R807	1-247-843-11	CARBON	3.3K	5%	1/4W
R808	1-249-429-11	CARBON	10K	5%	1/4W
R809	1-249-429-11	CARBON	10K	5%	1/4W
R810	1-249-429-11	CARBON	10K	5%	1/4W
R811	1-249-429-11	CARBON	10K	5%	1/4W
R812	1-249-401-11	CARBON	47	5%	1/4W
R814	1-249-413-11	CARBON	470	5%	1/4W (FE570)
R814	1-249-429-11	CARBON	10K	5%	1/4W (FE370)
R815	1-249-429-11	CARBON	10K	5%	1/4W
R816	1-249-429-11	CARBON	10K	5%	1/4W
R817	1-249-429-11	CARBON	10K	5%	1/4W
R819	1-249-429-11	CARBON	10K	5%	1/4W
R820	1-249-429-11	CARBON	10K	5%	1/4W
R821	1-249-429-11	CARBON	10K	5%	1/4W
R822	1-249-429-11	CARBON	10K	5%	1/4W
R823	1-249-433-11	CARBON	22K	5%	1/4W
R824	1-249-429-11	CARBON	10K	5%	1/4W
R826	1-249-401-11	CARBON	47	5%	1/4W
R827	1-249-393-11	CARBON	10	5%	1/4W (FE570)
R828	1-249-429-11	CARBON	10K	5%	1/4W
R829	1-249-429-11	CARBON	10K	5%	1/4W
R830	1-249-429-11	CARBON	10K	5%	1/4W
R831	1-249-401-11	CARBON	47	5%	1/4W (FE570)
R834	1-249-413-11	CARBON	470	5%	1/4W
R835	1-249-429-11	CARBON	10K	5%	1/4W (FE570)
R836	1-249-425-11	CARBON	4.7K	5%	1/4W (FE570)
R837	1-249-413-11	CARBON	470	5%	1/4W
R838	1-249-413-11	CARBON	470	5%	1/4W (FE570)

< VARIABLE RESISTOR >

RV201	1-223-396-21	RES, VAR, CARBON 100K/100K (BALANCE)
RV203	1-223-397-21	RES, VAR, CARBON 100K/100K (TONE BASS)
RV204	1-223-397-21	RES, VAR, CARBON 100K/100K (TONE TREBLE)

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S202	1-571-828-11	SWITCH, PUSH (1 KEY) (SOURCE DIRECT)	
S801	1-692-974-11	SWITCH, ROTARY (INPUT SELECTOR)	
S802	1-771-349-21	SWITCH, KEYBOARD (TAPE1 MONITOR)	(FE570)
S803	1-571-112-21	SWITCH, PUSH (1 KEY) (EON LINK) (FE570)	
		< VIBRATOR >	
X801	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	
**********			
	1-681-422-11	HEADPHONE BOARD	
		**********	
		< CONNECTOR >	
CN803	1-770-387-11	PIN, CONNECTOR (PC BOARD) 3P	
		< JACK >	
J501	1-750-735-11	JACK (LARGE TYPE) (PHONES)	
**********			
	1-681-423-11	LOUDNESS BOARD	
		**********	
		< CONNECTOR >	
CN805	1-750-186-11	CONNECTOR, BOARD TO BOARD 6P	
		< SWITCH >	
S201	1-571-112-21	SWITCH, PUSH (1 KEY) (LOUDNESS)	
**********			
	A-4476-571-A	MAIN BOARD, COMPLETE (FE570)	
	A-4476-581-A	MAIN BOARD, COMPLETE (FE370)	
		**********	
		< CAPACITOR >	

C101	1-162-282-31	CERAMIC	100PF	10%	50V
C102	1-162-286-31	CERAMIC	220PF	10%	50V
C103	1-126-963-11	ELECT	4.7uF	20%	50V
C104	1-104-660-11	ELECT	47uF	20%	16V
C105	1-162-282-31	CERAMIC	100PF	10%	50V
C106	1-130-480-00	MYLAR	0.0056uF	5%	50V
C107	1-130-473-00	MYLAR	0.0015uF	5%	50V
C108	1-126-964-11	ELECT	10uF	20%	50V
C109	1-126-964-11	ELECT	10uF	20%	50V
C110	1-126-963-11	ELECT	4.7uF	20%	50V (FE570)
C112	1-162-294-31	CERAMIC	0.001uF	10%	50V
C114	1-162-306-11	CERAMIC	0.01uF	30%	16V
C115	1-126-963-11	ELECT	4.7uF	20%	50V
C151	1-162-282-31	CERAMIC	100PF	10%	50V
C152	1-162-286-31	CERAMIC	220PF	10%	50V
C153	1-126-963-11	ELECT	4.7uF	20%	50V
C154	1-104-660-11	ELECT	47uF	20%	16V
C155	1-162-282-31	CERAMIC	100PF	10%	50V
C156	1-130-480-00	MYLAR	0.0056uF	5%	50V
C157	1-130-473-00	MYLAR	0.0015uF	5%	50V
C158	1-126-964-11	ELECT	10uF	20%	50V

MAIN

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

MAIN

Ref. No.	Part No.	Description			Remark
L351	1-420-872-00	COIL, AIR-CORE			
		< TRANSISTOR >			
Q101	8-729-141-26	TRANSISTOR	2SC3622A-LK		
Q102	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q103	8-729-119-79	TRANSISTOR	2SC2785-FEK (FE570)		
Q104	8-729-119-79	TRANSISTOR	2SC2785-FEK		
Q151	8-729-141-26	TRANSISTOR	2SC3622A-LK		
Q301	8-729-140-82	TRANSISTOR	2SA988-PAFAEA		
Q351	8-729-140-82	TRANSISTOR	2SA988-PAFAEA		
Q901	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q902	8-729-201-53	TRANSISTOR	2SA1015-GR		
Q903	8-729-119-79	TRANSISTOR	2SC2785-FEK		
		< RESISTOR >			
R101	1-249-417-11	CARBON	1K	5%	1/4W
R102	1-249-413-11	CARBON	470	5%	1/4W
R104	1-249-437-11	CARBON	47K	5%	1/4W
R105	1-249-416-11	CARBON	820	5%	1/4W
R106	1-247-897-11	CARBON	560K	5%	1/4W
R107	1-249-437-11	CARBON	47K	5%	1/4W
R108	1-249-441-11	CARBON	100K	5%	1/4W
R109	1-249-409-11	CARBON	220	5%	1/4W
R110	1-249-417-11	CARBON	1K	5%	1/4W
R111	1-249-417-11	CARBON	1K	5%	1/4W
R112	1-249-417-11	CARBON	1K	5%	1/4W
R113	1-249-417-11	CARBON	1K	5%	1/4W
R114	1-249-417-11	CARBON	1K	5%	1/4W
R115	1-249-417-11	CARBON	1K	5%	1/4W
R116	1-249-417-11	CARBON	1K	5%	1/4W
R117	1-249-417-11	CARBON	1K	5%	1/4W
R118	1-249-425-11	CARBON	4.7K	5%	1/4W
R119	1-249-425-11	CARBON	4.7K	5%	1/4W
R120	1-249-409-11	CARBON	220	5%	1/4W
R121	1-249-437-11	CARBON	47K	5%	1/4W
R122	1-249-419-11	CARBON	1.5K	5%	1/4W
R123	1-249-427-11	CARBON	6.8K	5%	1/4W
R124	1-249-425-11	CARBON	4.7K	5%	1/4W (FE570)
R125	1-249-429-11	CARBON	10K	5%	1/4W
R126	1-249-441-11	CARBON	100K	5%	1/4W
R151	1-249-417-11	CARBON	1K	5%	1/4W
R152	1-249-413-11	CARBON	470	5%	1/4W
R154	1-249-437-11	CARBON	47K	5%	1/4W
R155	1-249-416-11	CARBON	820	5%	1/4W
R156	1-247-897-11	CARBON	560K	5%	1/4W
R157	1-249-437-11	CARBON	47K	5%	1/4W
R158	1-249-441-11	CARBON	100K	5%	1/4W
R159	1-249-409-11	CARBON	220	5%	1/4W
R160	1-249-417-11	CARBON	1K	5%	1/4W
R161	1-249-417-11	CARBON	1K	5%	1/4W
R162	1-249-417-11	CARBON	1K	5%	1/4W
R163	1-249-417-11	CARBON	1K	5%	1/4W
R164	1-249-417-11	CARBON	1K	5%	1/4W
R165	1-249-417-11	CARBON	1K	5%	1/4W
R166	1-249-417-11	CARBON	1K	5%	1/4W
R167	1-249-417-11	CARBON	1K	5%	1/4W
R168	1-249-425-11	CARBON	4.7K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R176	1-249-441-11	CARBON	100K	5%	1/4W
R207	1-249-425-11	CARBON	4.7K	5%	1/4W
R257	1-249-425-11	CARBON	4.7K	5%	1/4W
R301	1-249-439-11	CARBON	68K	5%	1/4W
R302	1-249-417-11	CARBON	1K	5%	1/4W
R303	1-249-414-11	CARBON	560	5%	1/4W
R304	1-249-439-11	CARBON	68K	5%	1/4W
R305	1-260-107-11	CARBON	4.7K	5%	1/2W
R306	1-260-107-11	CARBON	4.7K	5%	1/2W
R307	1-249-405-11	CARBON	100	5%	1/4W
R308	1-260-328-11	CARBON	1K	5%	1/2W
R309	1-260-328-11	CARBON	1K	5%	1/2W
R310	1-249-405-11	CARBON	100	5%	1/4W
R312	1-249-421-11	CARBON	2.2K	5%	1/4W
R313	1-249-433-11	CARBON	22K	5%	1/4W
⚠R314	1-244-164-11	WIREWOUND	0.22	10%	5W F
R315	1-249-439-11	CARBON	68K	5%	1/4W
R316	1-260-300-11	CARBON	4.7	5%	1/2W
R318	1-249-393-11	CARBON	10	5%	1/4W
R320	1-249-385-11	CARBON	2.2	5%	1/6W
R321	1-249-385-11	CARBON	2.2	5%	1/6W
R322	1-249-385-11	CARBON	2.2	5%	1/6W
R351	1-249-439-11	CARBON	68K	5%	1/4W
R352	1-249-417-11	CARBON	1K	5%	1/4W
R353	1-249-414-11	CARBON	560	5%	1/4W
R354	1-249-439-11	CARBON	68K	5%	1/4W
R355	1-260-107-11	CARBON	4.7K	5%	1/2W
R356	1-260-107-11	CARBON	4.7K	5%	1/2W
R362	1-249-421-11	CARBON	2.2K	5%	1/4W
R363	1-249-433-11	CARBON	22K	5%	1/4W
⚠R364	1-244-164-11	WIREWOUND	0.22	10%	5W F
R365	1-249-437-11	CARBON	47K	5%	1/4W
R366	1-260-300-11	CARBON	4.7	5%	1/2W
R368	1-249-393-11	CARBON	10	5%	1/4W
R601	1-260-095-11	CARBON	470	5%	1/2W (FE370)
R601	1-260-097-11	CARBON	680	5%	1/2W (FE570)
R602	1-260-097-11	CARBON	680	5%	1/2W
R603	1-249-417-11	CARBON	1K	5%	1/4W
R604	1-249-441-11	CARBON	100K	5%	1/4W
R605	1-249-439-11	CARBON	68K	5%	1/4W
R606	1-249-431-11	CARBON	15K	5%	1/4W
R607	1-260-103-11	CARBON	2.2K	5%	1/2W
R608	1-260-103-11	CARBON	2.2K	5%	1/2W
R832	1-249-393-11	CARBON	10	5%	1/4W (FE570)
R901	1-249-385-11	CARBON	2.2	5%	1/6W
R902	1-260-097-11	CARBON	680	5%	1/2W (FE370)
R902	1-260-328-11	CARBON	1K	5%	1/2W (FE570)
R903	1-260-097-11	CARBON	680	5%	1/2W (FE370)
R903	1-260-328-11	CARBON	1K	5%	1/2W (FE570)
R904	1-260-097-11	CARBON	680	5%	1/2W
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.

MAIN **POWER SW** **SPEAKER SW** **STANDBY** **VOLUME**

Ref. No.	Part No.	Description			Remark
R907	1-260-328-11	CARBON	1K	5%	1/2W (FE370)
R907	1-260-330-11	CARBON	1.5K	5%	1/2W (FE570)
R908	1-260-328-11	CARBON	1K	5%	1/2W
R910	1-249-429-11	CARBON	10K	5%	1/4W
R912	1-249-429-11	CARBON	10K	5%	1/4W
R913	1-249-433-11	CARBON	22K	5%	1/4W
R916	1-249-419-11	CARBON	1.5K	5%	1/4W
		< RELAY >			
RY101	1-515-614-11	RELAY (FE570)			
RY601	1-515-920-11	RELAY (24V)			
		< TERMINAL >			
TM301	1-694-791-11	TERMINAL BOARD (SPEAKERS)			
**********					
	1-681-421-11	POWER SW BOARD			
		**********			
		< CONNECTOR >			
CN807	1-568-668-11	CONNECTOR, BOARD TO BOARD 6P			
		< LED >			
D822	8-719-058-04	LED SEL5223S-TP15 (STANDBY)			
		< IC >			
IC803	8-759-459-86	IC NJL64H400A (REMOTE CONTROL RECEIVER)			
		< RESISTOR >			
R833	1-249-421-11	CARBON	2.2K	5%	1/4W
		< SWITCH >			
S1	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)			
**********					
	1-681-424-11	SPEAKER SW BOARD			
		**********			
		< SWITCH >			
S205	1-771-099-11	SWITCH, ROTARY (SPEAKERS)			
**********					
	1-681-418-11	STANDBY BOARD			
		**********			
	1-533-217-41	HOLDER, FUSE			
		< CAPACITOR >			
⚠C1	1-113-924-11	CERAMIC	0.0047uF	20%	250V
C809	1-126-961-11	ELECT	2.2uF	20%	50V
C917	1-162-306-11	CERAMIC	0.01uF	30%	16V
C919	1-126-941-11	ELECT	470uF	20%	25V
		< CONNECTOR >			
* CN1	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P			
CN2	1-564-321-00	PIN, CONNECTOR 2P			
CN3	1-564-321-00	PIN, CONNECTOR 2P			
CN902	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
		< DIODE >			
D911	8-719-911-19	DIODE 1SS119-25			
D912	8-719-024-99	DIODE 11ES2-NTA2B			
D913	8-719-024-99	DIODE 11ES2-NTA2B			
D914	8-719-024-99	DIODE 11ES2-NTA2B			
D915	8-719-024-99	DIODE 11ES2-NTA2B			
D916	8-719-024-99	DIODE 11ES2-NTA2B			
		< FUSE >			
⚠F1	1-532-503-31	FUSE (T1.6AL/250V) (FE370)			
⚠F3	1-532-388-31	FUSE (T2AL/250V) (FE570)			
		< RESISTOR >			
R914	1-249-385-11	CARBON	2.2	5%	1/6W
R915	1-247-807-31	CARBON	100	5%	1/4W
		< RELAY >			
⚠RY1	1-755-276-11	RELAY, POWER			
		< TRANSFORMER >			
⚠T2	1-433-735-11	TRANSFORMER, POWER			
**********					
	1-681-420-11	VOLUME BOARD			
		**********			
		< VARIABLE RESISTOR >			
RV202	1-241-426-11	RES, VAR, CARBON 100K/100K (VOLUME)			
**********					
		MISCELLANEOUS			
		**********			
60	1-773-025-11	WIRE (FLAT TYPE) (15 CORE)			
⚠104	1-575-651-21	CORD, POWER			
⚠CN4	1-526-794-11	OUTLET, AC (AEP)			
⚠CN5	1-526-794-11	OUTLET, AC (AEP)			
⚠CN6	1-526-794-11	OUTLET, AC (AEP)			
⚠T1	1-437-254-11	TRANSFORMER, POWER (FE570)			
⚠T1	1-437-255-11	TRANSFORMER, POWER (FE370)			
**********					
		ACCESSORIES & PACKING MATERIALS			
		**********			
⚠	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)			
	1-473-655-31	REMOTE COMMANDER (RM-S325)			
	4-233-885-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH)			
	4-233-885-21	MANUAL, INSTRUCTION (DUTCH, SWEDISH, ITALIAN, POLISH) (AEP)			
	4-981-643-01	COVER, BATTERY (for RM-S325)			

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MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2001.04	New
1.1	2001.07	Addition of Note for unleaded solder in use. (SPM-01025)
1.2	2006.02	Addition of Silver (Hair-line Finish) type (TA-FE370 only) (SPM-06013)