

TA-FB920R

SERVICE MANUAL

*AEP Model
UK Model
E Model
Australian Model*



Photo: BLACK model

SPECIFICATIONS

Amplifier section

DIN power output

(Continental Europe):
120 W + 120 W (4 ohms at 1 kHz)
80 W + 80 W (8 ohms at 1 kHz)
(U.K.):
100 W + 100 W (4 ohms at 1 kHz)
65 W + 65 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 ± 3 dB

S/N (network A)

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

Output voltage / impedance

REC OUT 1, 2: 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

230 V AC, 50/60 Hz

Power consumption

210 W

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

430 × 150 × 410 mm
projecting parts and controls

Mass (approx.)

10.3 kg

Supplied accessories

- Remote commander (remote) (1) RM-S316
- Sony batteries R6 (size-AA) (2)

Design and specifications are subject to change without notice.

INTEGRATED STEREO AMPLIFIER

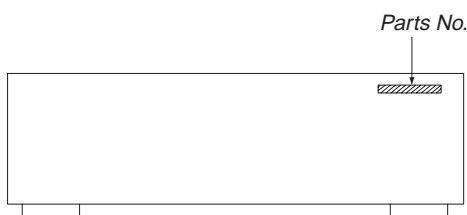


SONY®

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MODEL IDENTIFICATION — BACK PANEL —





PARTS No.	MODEL
4-999-451-0□	AEP, G, EE, MY, SP, AUS
4-999-451-4□	UK

NOTE:

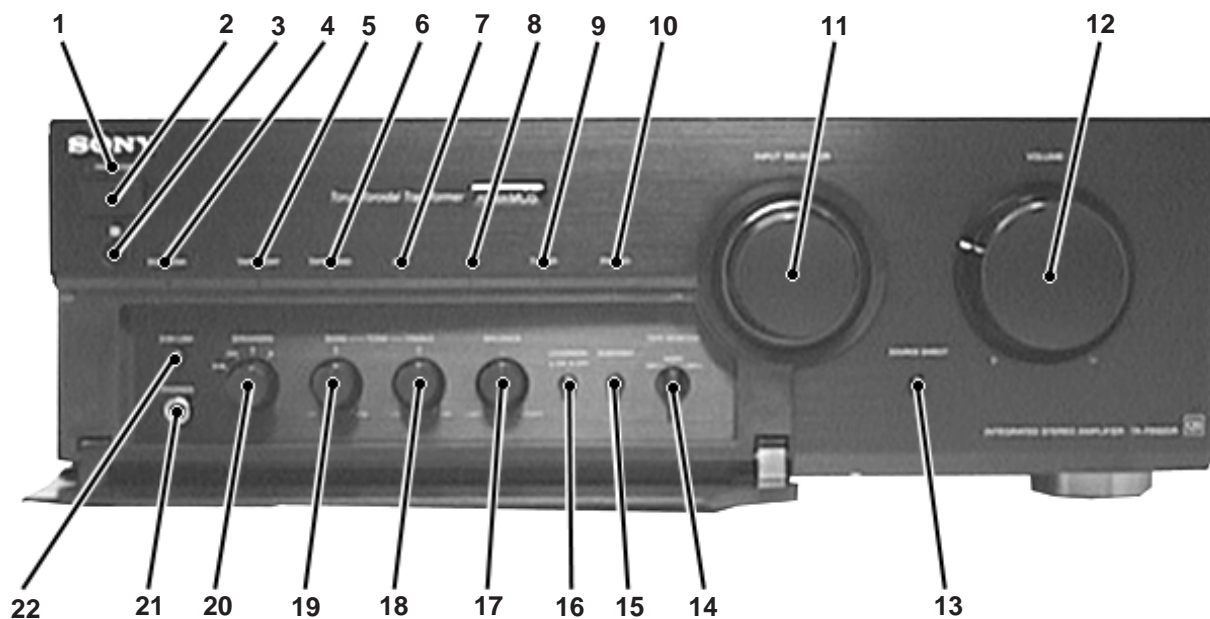
- Abbreviation
 - G : German model
 - EE : East European model
 - SP : Singapore model
 - MY : Malaysia model
 - AUS : Australian model

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

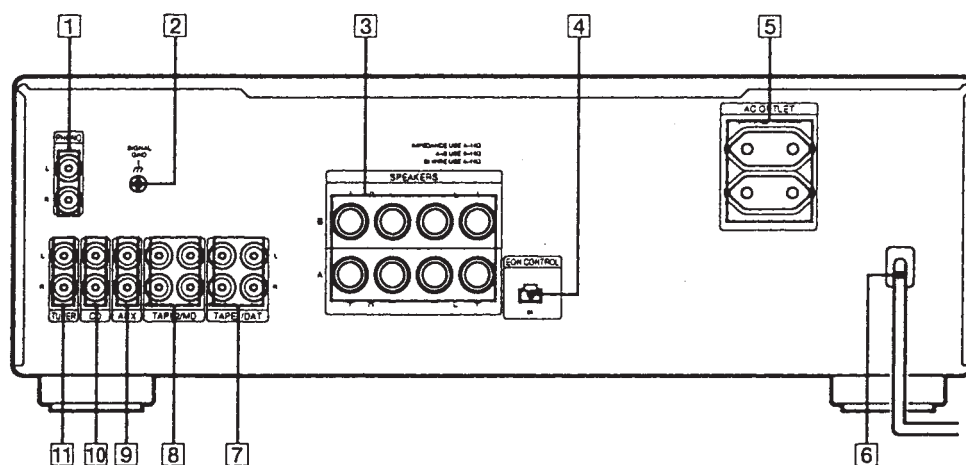
Front Panel Descriptions



- | | |
|------------------------|---------------------------------------|
| 1 PROTECTION indicator | 12 VOLUME knob |
| 2 ① (Power) button | 13 SOURCE DIRECT button and indicator |
| 3 Remote sensor | 14 TAPE MONITOR knob |
| 4 EON LINK indicator | 15 SUBSONIC button |
| 5 TAPE 1/DAT indicator | 16 LOUDNESS button |
| 6 TAPE 2/MD indicator | 17 BALANCE knob |
| 7 AUX indicator | 18 TREBLE knob |
| 8 CD indicator | 19 BASS knob |
| 9 TUNER indicator | 20 SPEAKERS knob |
| 10 PHONO indicator | 21 PHONE jack |
| 11 INPUT SELECTOR knob | 22 EON LINK button |

This section is extracted from instruction manual.

Rear Panel Descriptions



- | | |
|---|--------------|
| 1 PHONO | 6 Mains lead |
| 2 \hbar (SIGNAL GND) | 7 TAPE1/DAT |
| 3 SPEAKERS A/B | 8 TAPE2/MD |
| 4 EON CONTROL IN | 9 AUX |
| 5 AC OUTLET (unavailable on the TA-FB920R (U.K. model)) | 10 CD |
| | 11 TUNER |

SECTION 2 ELECTRICAL ADJUSTMENT

Bias Adjustment



NOTE:

1. Perform the adjustment after the unit has warmed up sufficiently.
2. Perform the bias adjustment if the power transistor has been replaced.

Procedure:

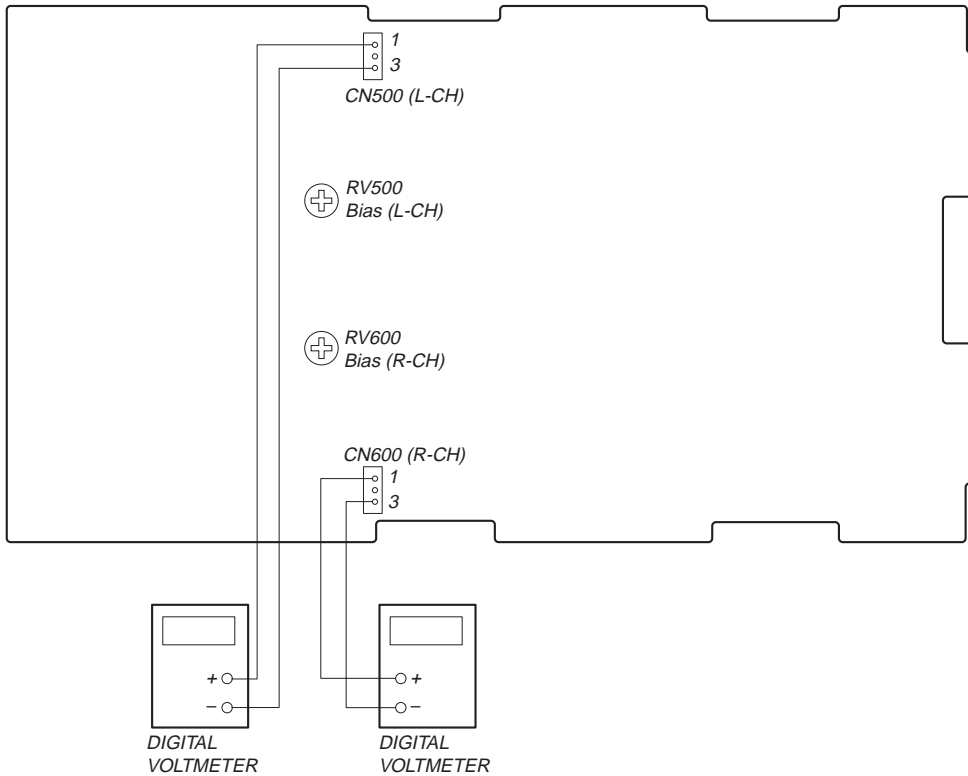
1. Rotate fully the bias adjusting semi-fixed resistors (RV500, RV600) to the MIN position (counterclockwise).
2. Connect a digital voltmeter to the CN500 and CN600.

	1 pin	3 pin
CN500 (L-CH)	+	–
CN600(R-CH)	+	–

3. Set the slide regulator to 0V, and press the  button (ON) on the set.
4. Raise gradually the slide regulator voltage up to the rated voltage.
5. At this time, confirm that the SP relay is turned on (it will click).
6. Adjust the RV500 and RV600 so that a reading of digital voltmeter is 10 ± 1 mV.
7. Return the slidack to 0 V, and press the  button (OFF) on the set.

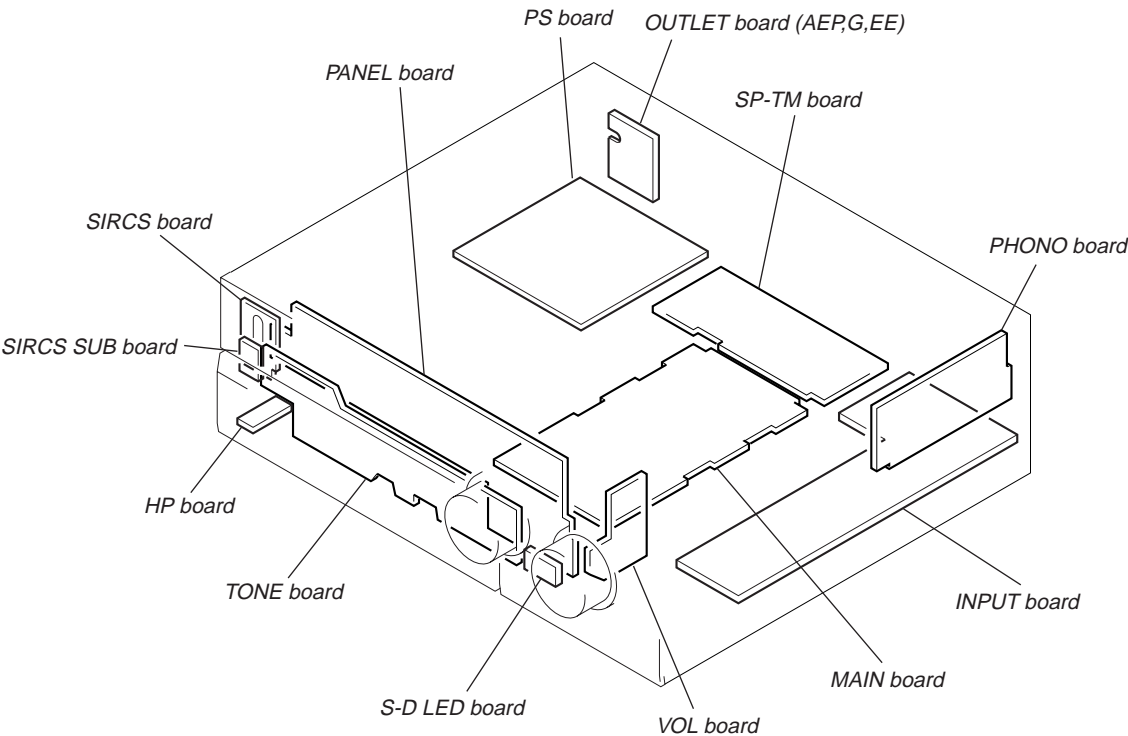
Adjustment Location :

[MAIN BOARD] – COMPONENT SIDE –



SECTION 3
DIAGRAMS




3-1. CIRCUIT BOARDS LOCATION







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

For schematic diagrams.

Note:




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

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

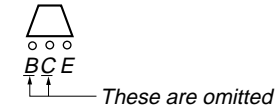
-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : POWER ON
- Voltages are taken with a VOM (Input impedance 10 M Ω).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 : TUNER
- Abbreviation
G : German model.
EE : East European model.
AUS : Australian model.
SP : Singapore model.
MY : Malaysia model.

For printed wiring boards.

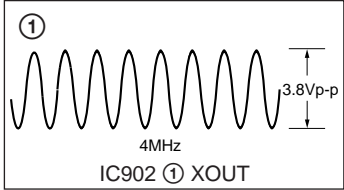
Note:

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

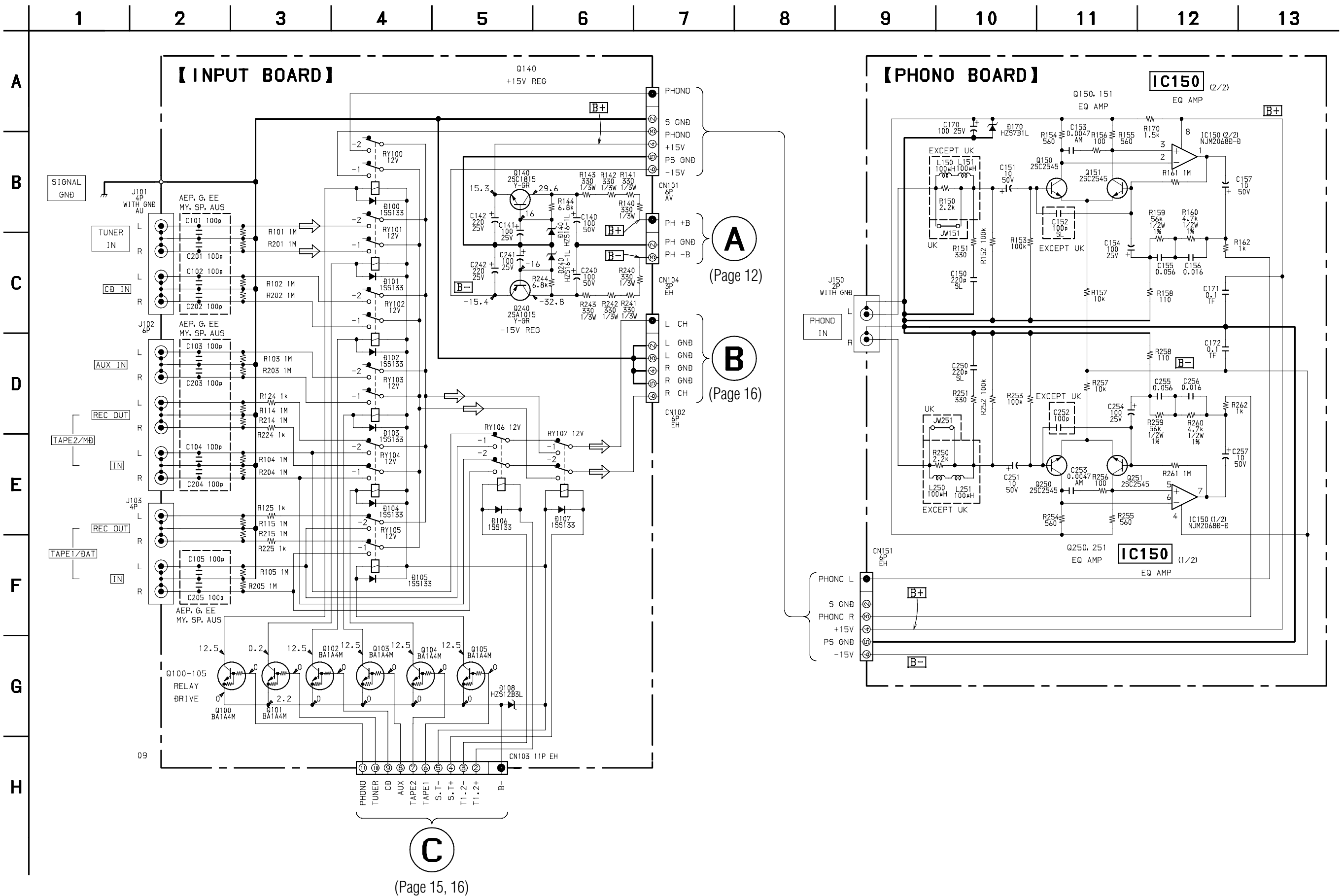
Indication of transistor



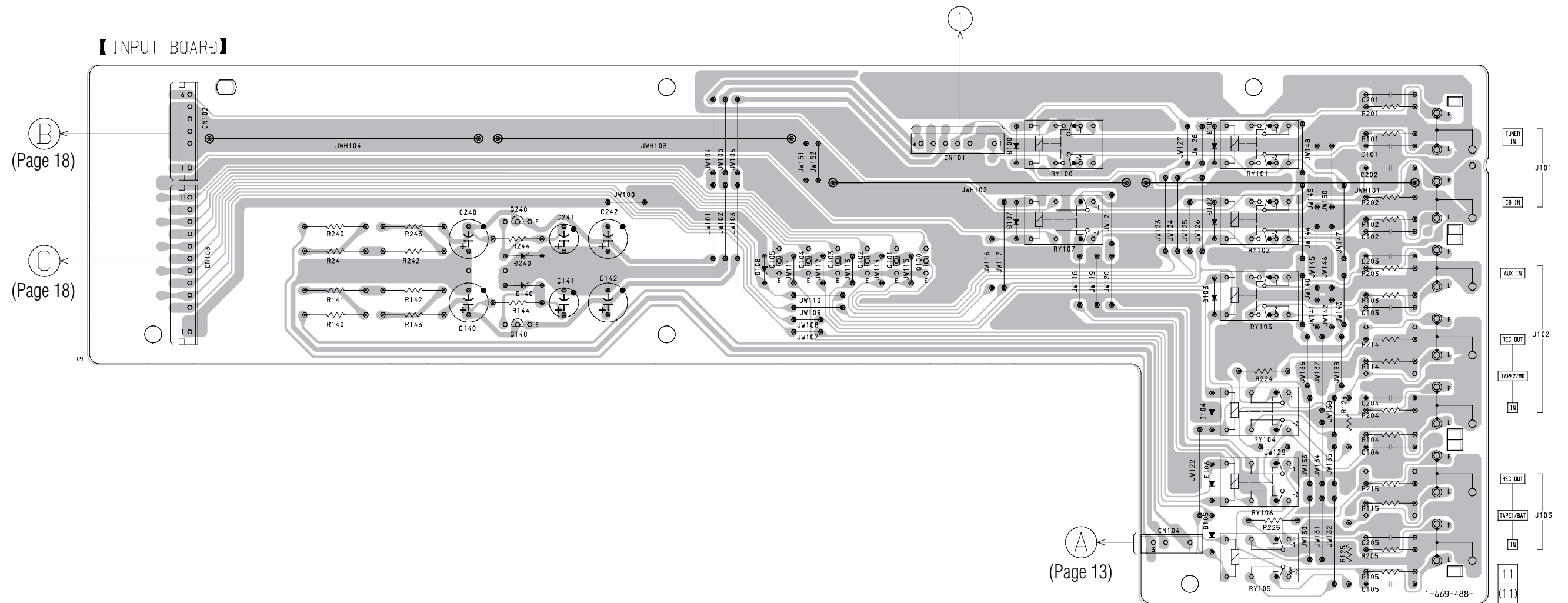
WAVEFORM



3-2. SCHEMATIC DIAGRAM – INPUT SECTION –

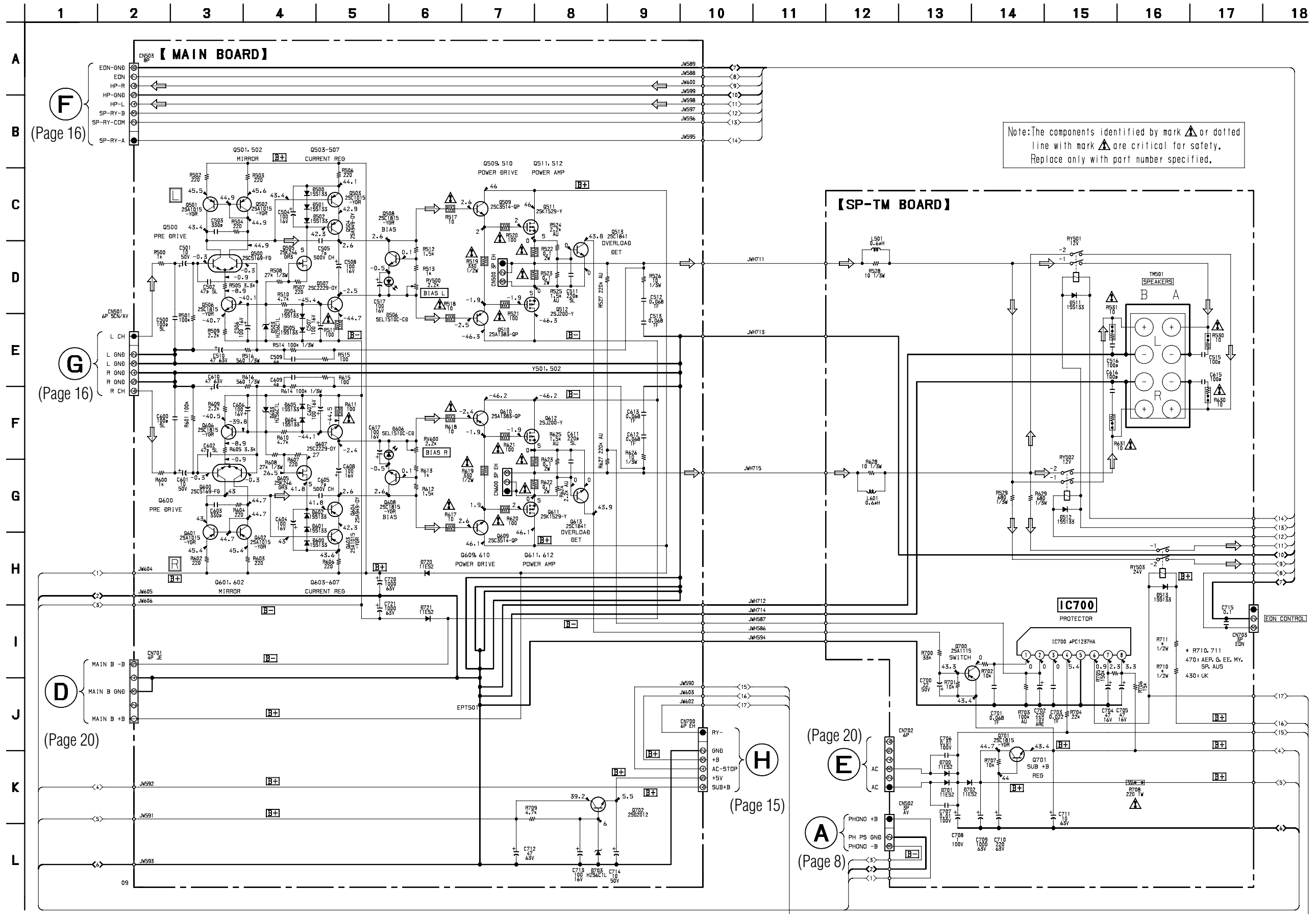


- See page 5 for Circuit Boards Location.

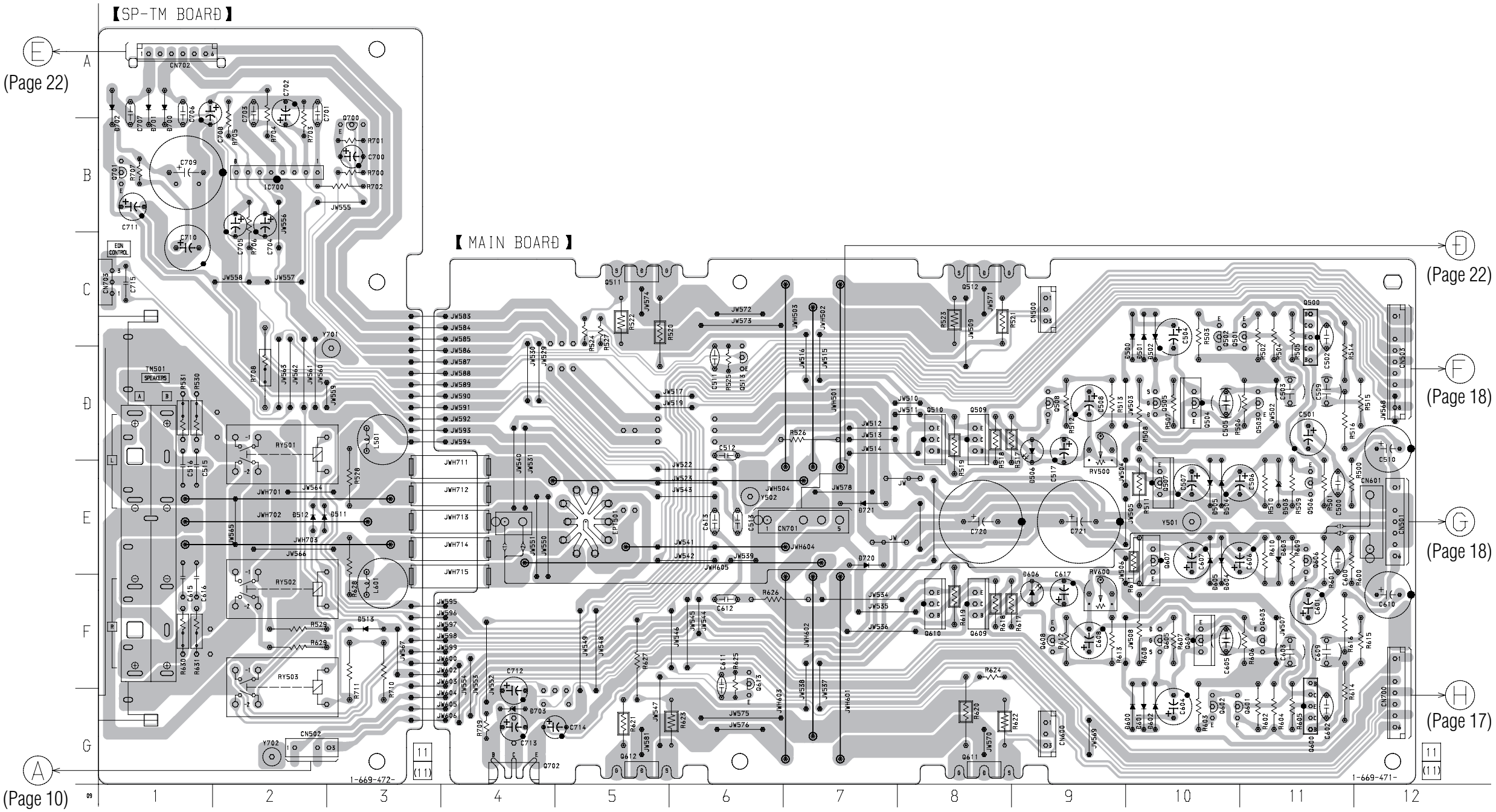


3-4. SCHEMATIC DIAGRAM – MAIN SECTION –

- See page 23 for IC Block Diagrams.



3-5. PRINTED WIRING BOARD – MAIN SECTION –
• See page 5 for Circuit Boards Location.

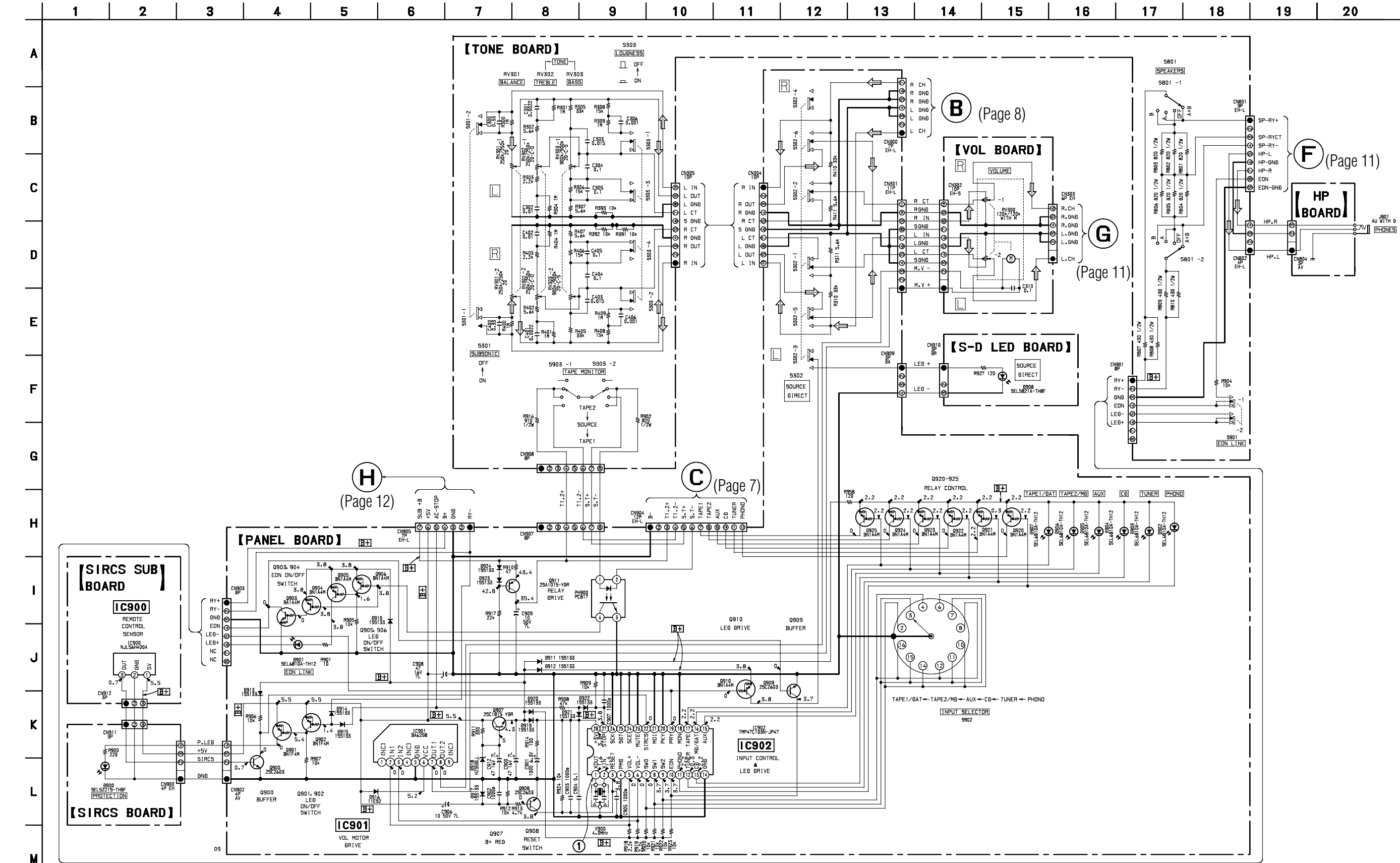


• Semiconductor Location

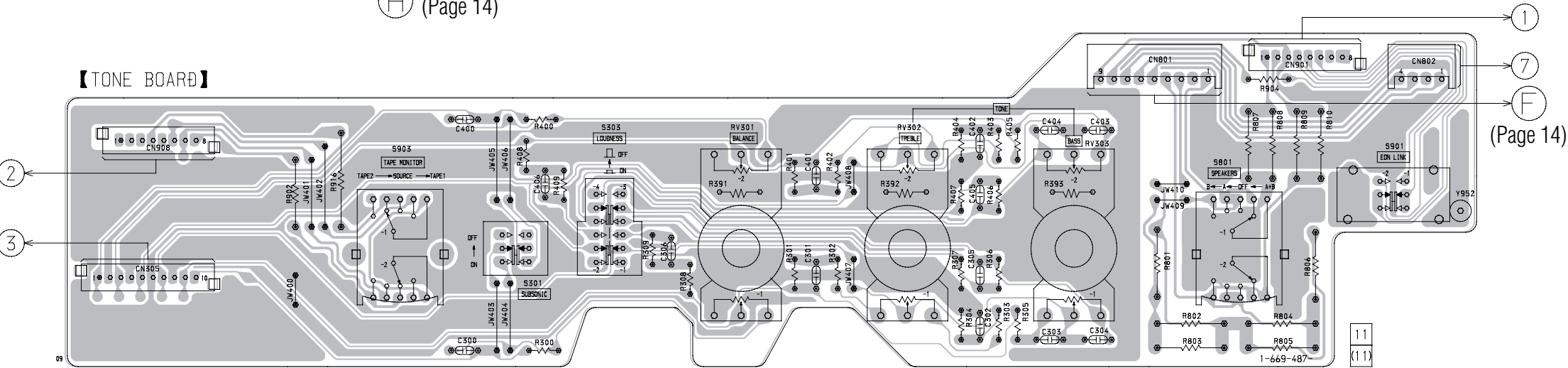
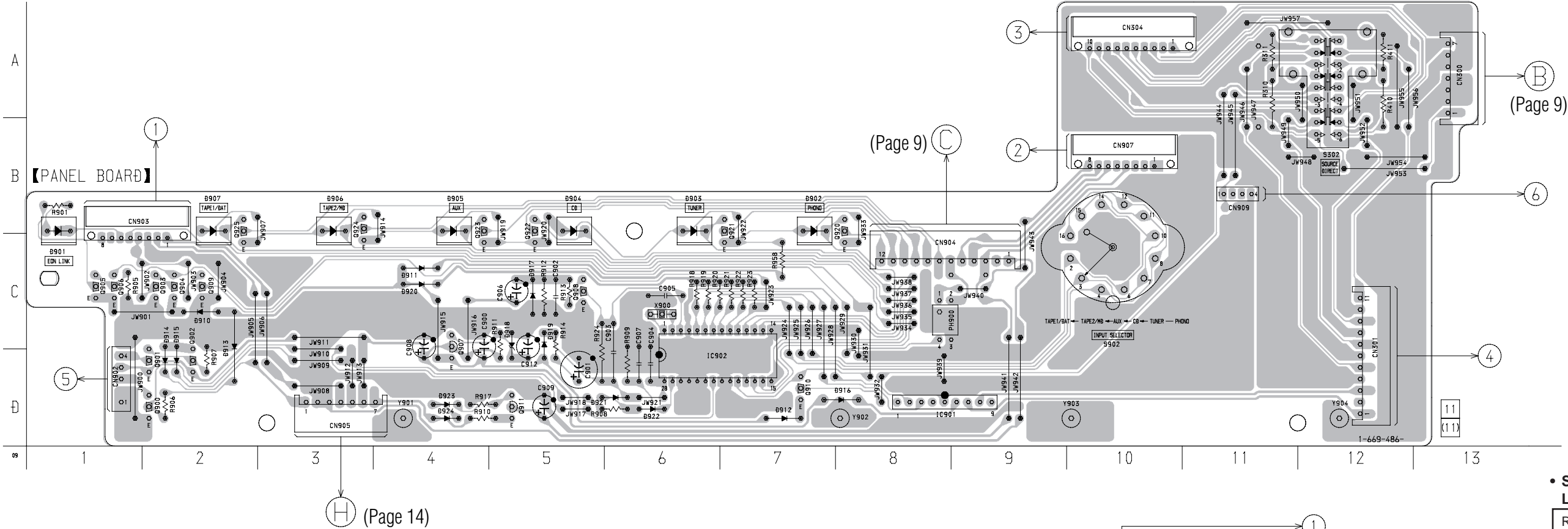
Ref. No.	Location
D500	C-10
D501	C-10
D502	C-10
D503	E-11
D504	E-10
D505	E-10
D506	D-9
D511	E-2
D512	E-2
D513	F-3
D600	G-10
D601	G-10
D602	G-10
D603	E-11
D604	E-10
D605	E-10
D606	F-9
D700	A-1
D701	A-1
D702	A-1
D703	G-4
D720	E-7
D721	E-7
IC700	B-2
Q500	C-11
Q501	C-11
Q502	C-10
Q503	D-11
Q504	D-10
Q505	D-10
Q506	E-11
Q507	E-10
Q508	D-9
Q509	D-8
Q510	D-8
Q511	C-5
Q512	C-8
Q513	D-6
Q600	G-11
Q601	G-11
Q602	G-10
Q603	F-11
Q604	F-10
Q605	F-10
Q606	E-11
Q607	E-10
Q608	F-9
Q609	F-8
Q610	F-10
Q611	G-8
Q612	G-5
Q613	F-6
Q700	B-3
Q701	B-1

3-6. SCHEMATIC DIAGRAM – PANEL SECTION –

- See page 6 for Waveforms.
- See page 23 for IC Block Diagram.
- See page 24 for IC Pin Function.



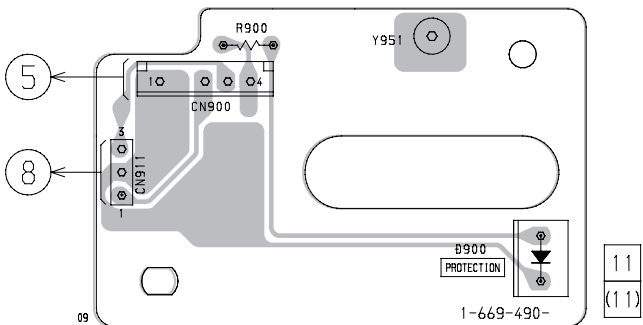
3-7. PRINTED WIRING BOARD – PANEL SECTION –
• See page 5 for Circuit Boards Location.



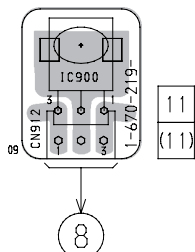
• Semiconductor Location

Ref. No.	Location
D901	B-1
D902	B-7
D903	B-6
D904	B-5
D905	B-4
D906	B-3
D907	B-2
D910	C-2
D911	C-4
D912	D-7
D913	C-2
D914	D-2
D915	D-2
D916	D-8
D917	C-5
D918	C-5
D919	C-5
D920	C-4
D921	D-6
D922	D-6
D923	D-4
D924	D-4
IC901	D-9
IC902	D-7
Q900	D-2
Q901	D-2
Q902	D-2
Q903	C-2
Q904	C-2
Q905	C-1
Q906	C-1
Q907	C-4
Q908	C-5
Q909	C-2
Q910	D-7
Q911	D-5
Q920	B-8
Q921	B-7
Q922	B-5
Q923	B-4
Q924	B-3
Q925	B-2

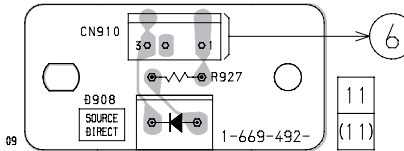
【SIRCS BOARD】



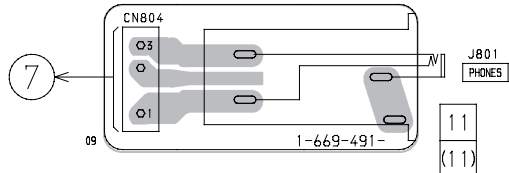
【SIRCS SUB BOARD】



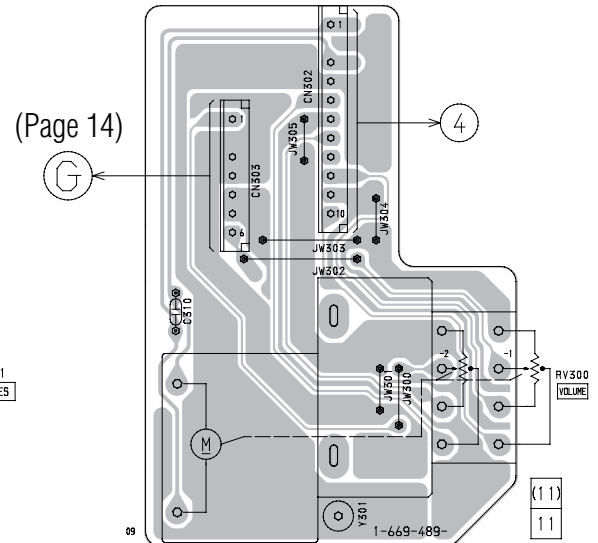
【S-D LED BOARD】



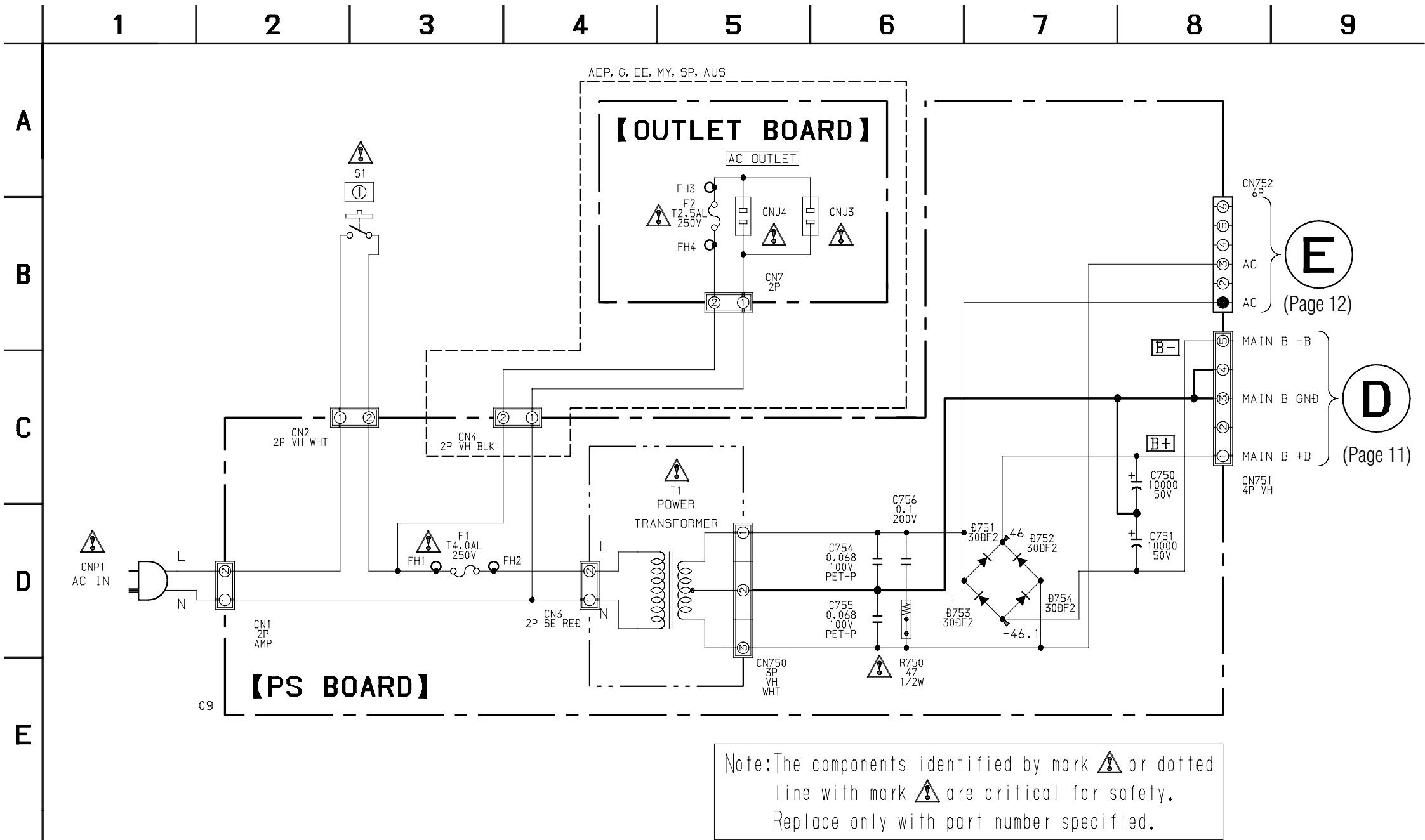
【HP BOARD】



【VOL BOARD】

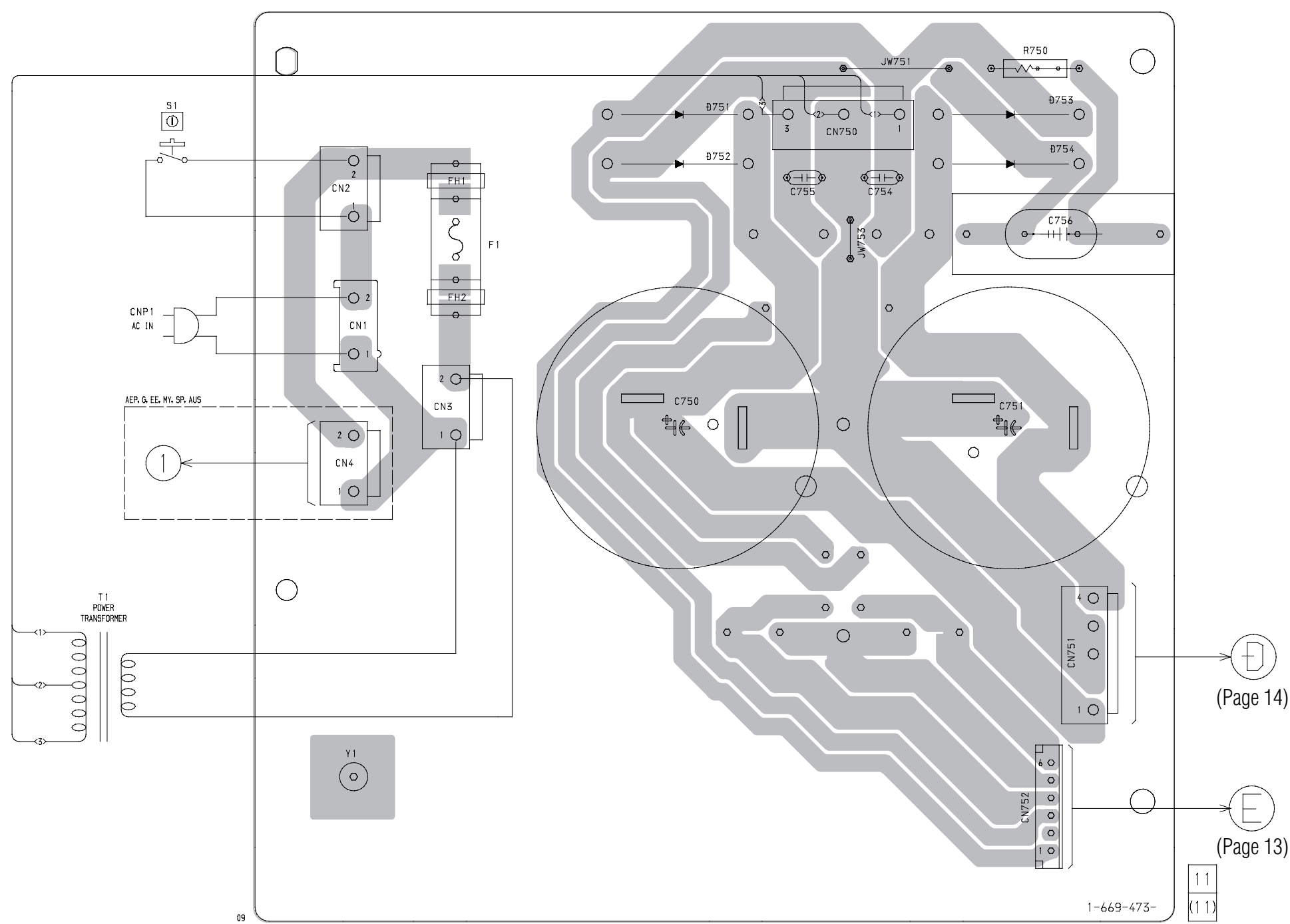


3-8. SCHEMATIC DIAGRAM – POWER SECTION –



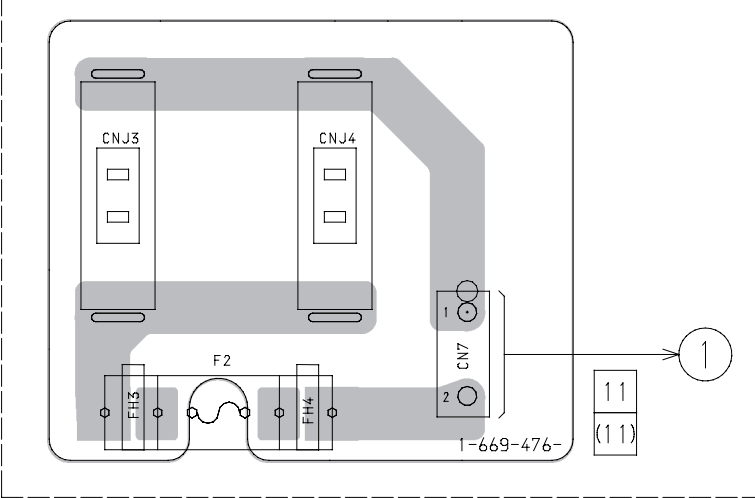
3-9. PRINTED WIRING BOARD – POWER SECTION –
• See page 5 for Circuit Boards Location.

【 PS BOARD 】



AEP, G, EE, MY, SP, AUS

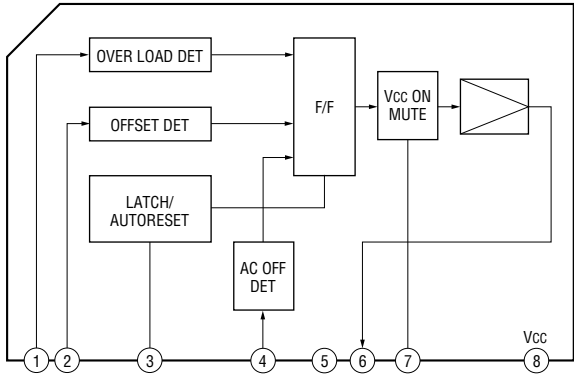
【 OUTLET BOARD 】



3-10. IC BLOCK DIAGRAMS

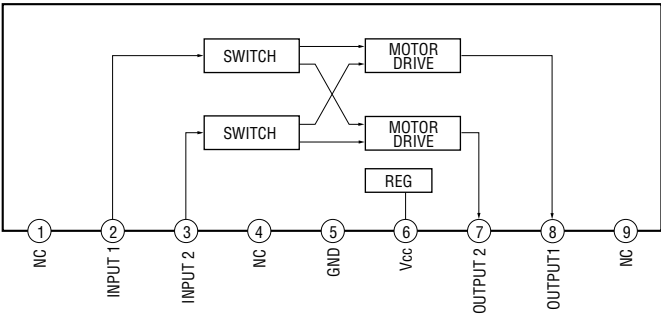
• Main section

IC700 uPC1237HA



• Panel section

IC901 BA6208



3-11. IC PIN FUNCTION

• IC902 Input Control & LED Drive (TMP47C103N-JP47)

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

SECTION 4 EXPLODED VIEWS

NOTE:

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE)



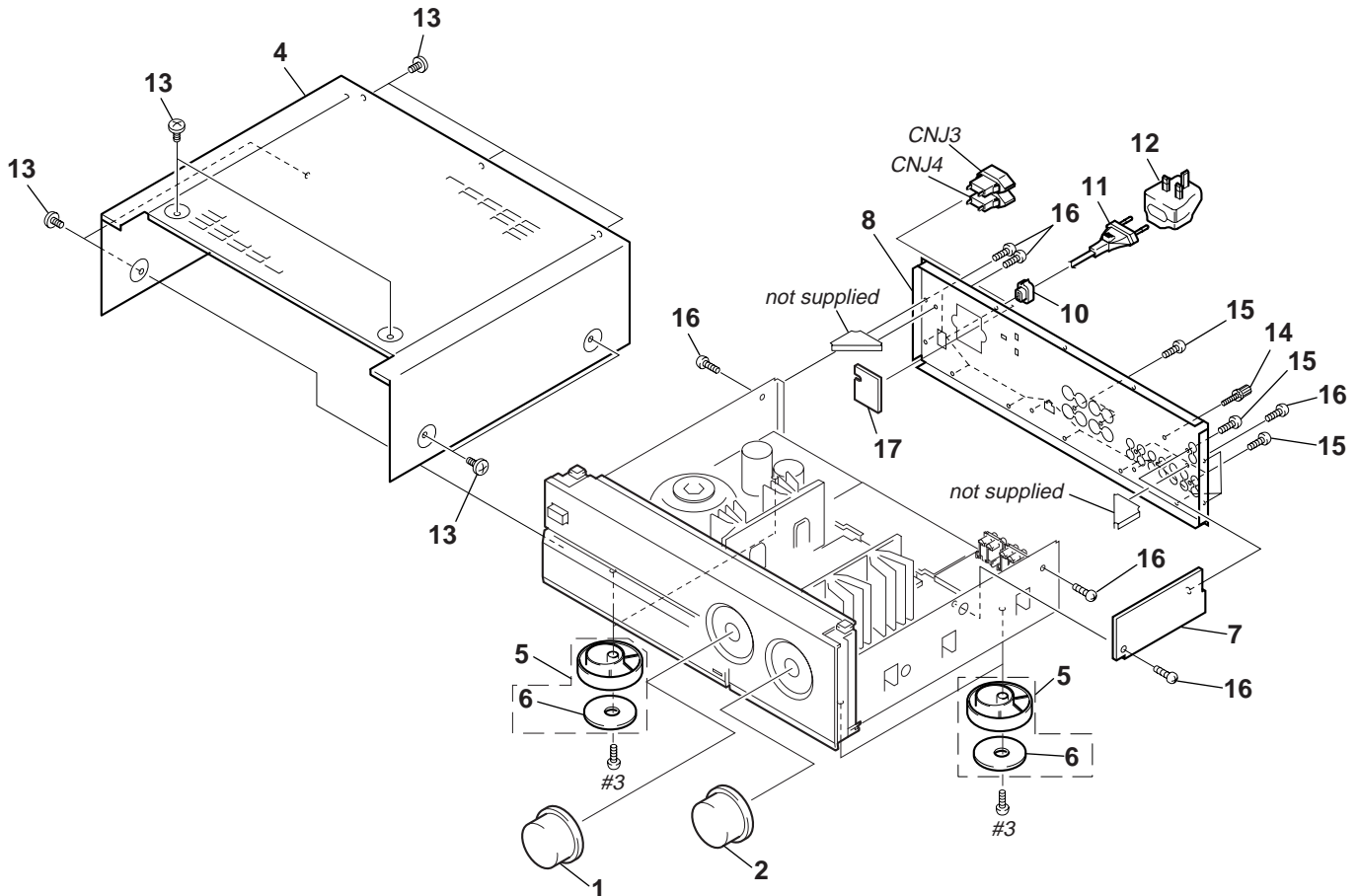
Cabinets color

- The mechanical parts with no reference number in the exploded views are not supplied.

- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
G : German model
EE : East European model
SP : Singapore model
MY : Malaysia mdoel
AUS : Australian model

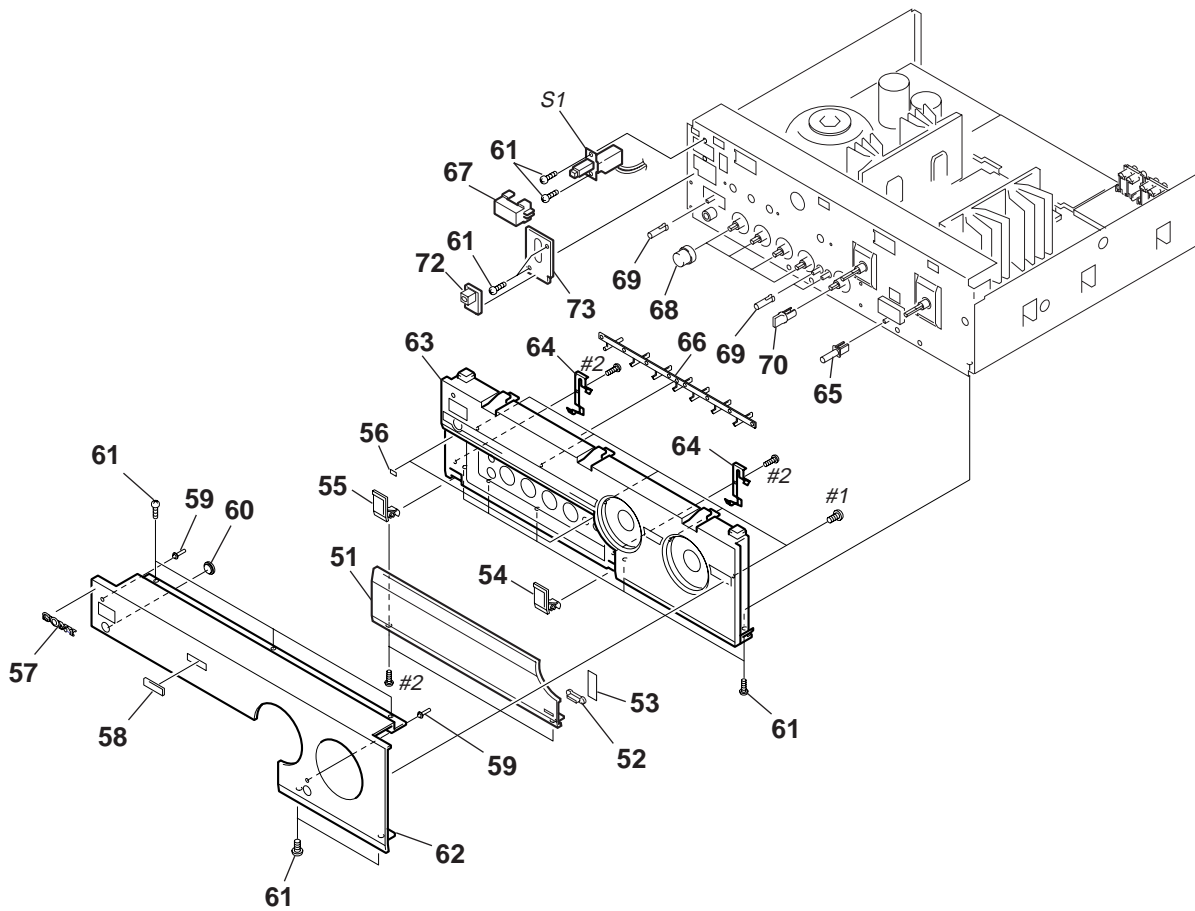
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

4-1. CASE AND BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-4949-780-1	KNOB (SELECTOR) ASSY (BLACK)		* 10	3-703-244-00	BUSHING (2104), CORD	
1	X-4950-264-1	KNOB (SELECTOR) ASSY (SILVER)		\triangle 11	1-777-185-11	CORD, POWER	
2	X-4949-781-1	KNOB (VOLUME) ASSY (BLACK)		\triangle 12	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
2	X-4950-265-1	KNOB (VOLUME) ASSY (SILVER)		13	4-210-291-01	SCREW (CASE 3 TP2)(AEP,G,EE,MY,SP,AUS)(BLACK)	
* 4	4-999-439-01	CASE (413235)(BLACK)		13	4-210-291-11	SCREW (CASE 3 TP2)(AEP,G,EE,MY,SP,AUS)(SILVER)	
* 4	4-999-439-41	CASE (413235)(SILVER)		13	4-999-877-01	SCREW (CASE)(UK)	
5	X-4949-760-1	FOOT ASSY		14	4-947-010-01	SCREW, FEEDER FIXED	
6	4-970-124-01	CUSHION (F50180S)		15	3-704-515-41	SCREW (BV/RING)	
* 7	A-4407-615-A	PHONO BOARD, COMPLETE		16	4-967-961-01	SCREW (3X8)	
		(AEP,G,EE,MY,SP,AUS)		* 17	1-669-476-11	OUTLET BOARD (AEP,G,EE,MY,SP,AUS)	
* 7	A-4407-775-A	PHONO BOARD, COMPLETE (UK)		\triangle CNJ3	1-526-794-11	OUTLET, AC (AC OUTLET)(AEP,G,EE,MY,SP,AUS)	
* 8	4-999-451-01	PANEL, BACK (AEP,G,EE,MY,SP,AUS)		\triangle CNJ4	1-526-794-11	OUTLET, AC (AC OUTLET)(AEP,G,EE,MY,SP,AUS)	
* 8	4-999-451-41	PANEL, BACK (UK)					

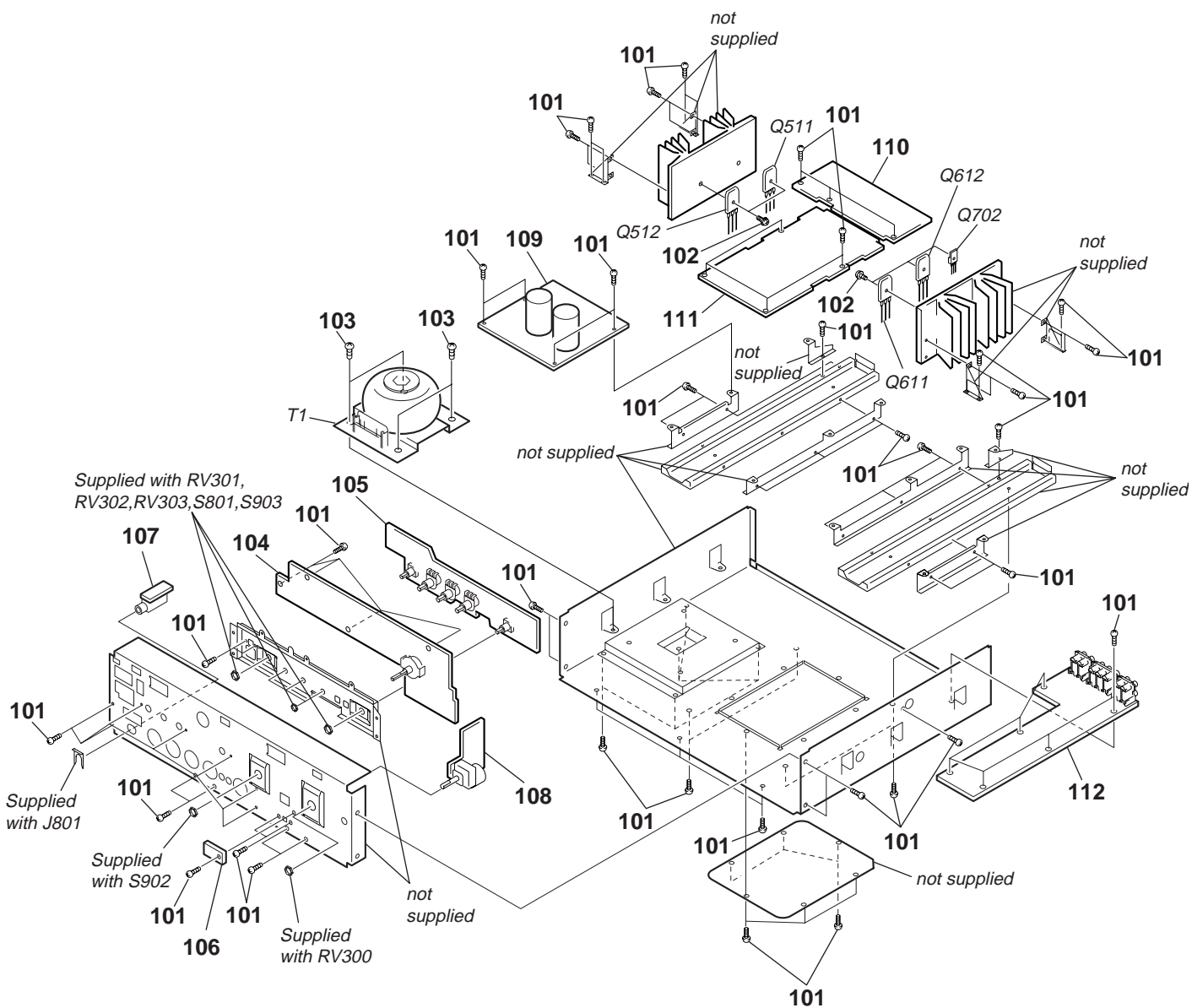
4-2. FRONT PANEL SECTION




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
51	4-999-407-01	DOOR (BLACK)		62	4-999-402-11	PANEL, FRONT (SILVER)	
51	4-999-407-11	DOOR (SILVER)		63	X-4949-779-1	BASE ASSY, PANEL (BLACK)	
52	4-900-031-01	KNOB (DOOR)(BLACK)		63	X-4950-263-1	BASE ASSY, PANEL (SILVER)	
52	4-900-031-11	KNOB (DOOR)(SILVER)		64	4-999-414-01	SPRING (DOOR), LEAF	
53	4-900-032-01	CUSHION (DOOR-L)		65	4-999-436-01	BUTTON (DIA. 6X29.8)(BLACK)	
				65	4-999-436-11	BUTTON (DIA. 6X29.8)(SILVER)	
54	4-900-058-01	ARM (DOOR/R)(BLACK)		* 66	4-999-404-01	PLATE (DOOR), INDICATION (BLACK)	
54	4-900-058-11	ARM (DOOR/R)(SILVER)		* 66	4-999-404-11	PLATE (DOOR), INDICATION (SILVER)	
55	4-999-408-01	ARM (DOOR)(BLACK)		67	3-024-055-01	BUTTON (POWER)	
55	4-999-408-11	ARM (DOOR)(SILVER)		68	4-999-406-01	KNOB (D18)(BLACK)	
* 56	4-999-492-01	CUSHION (DOOR)(BLACK)		68	4-999-406-11	KNOB (D18)(SILVER)	
* 56	4-999-492-11	CUSHION (DOOR)(SILVER)		69	4-980-773-01	BUTTON (DIA. 6)(BLACK)	
57	4-942-568-41	EMBLEM (NO.5), SONY (BLACK)		69	4-980-773-11	BUTTON (DIA. 6)(SILVER)	
57	4-942-568-51	EMBLEM (NO.5), SONY (SILVER)		70	4-950-189-01	KNOB (A)(VOL)(BLACK)	
58	4-965-651-01	EMBLEM (MOS)(BLACK)		70	4-950-189-31	KNOB (A)(VOL)(SILVER)	
58	4-965-651-11	EMBLEM (MOS)(SILVER)		* 72	1-670-219-11	SIRCS SUB BOARD	
59	4-999-413-01	INDICATOR (PROTECTION)		* 73	1-669-490-11	SIRCS BOARD	
60	4-980-776-01	WINDOW, REMOTE CONTROL		\triangle S1	1-554-920-61	SWITCH, PUSH (AC POWER)(1 KEY)(①)	
61	4-967-961-01	SCREW (3X8)					
62	4-999-402-01	PANEL, FRONT (BLACK)					

4-3. 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	Ref. No.	Part No.	Description	Remark
101	4-967-961-01	SCREW (3X8)		* 110	A-4407-773-A	SP-TM BOARD, COMPLETE (UK)	
102	3-905-609-11	SCREW (TRANSISTOR)		* 111	A-4407-612-A	MAIN BOARD, COMPLETE (AEP,G,EE,MY,SP,AUS)	
103	4-967-960-01	SCREW (4X8)		* 111	A-4407-772-A	MAIN BOARD, COMPLETE (UK)	
* 104	A-4407-605-A	PANEL BOARD, COMPLETE (AEP,G,EE,MY,SP,AUS)		* 112	A-4407-607-A	INPUT BOARD, COMPLETE (AEP,G,EE,MY,SP,AUS)	
* 104	A-4407-770-A	PANEL BOARD, COMPLETE (UK)		* 112	A-4407-771-A	INPUT BOARD, COMPLETE (UK)	
* 105	A-4407-606-A	TONE BOARD, COMPLETE (AEP,G,EE,MY,SP,AUS)		Q511	8-729-232-45	TRANSISTOR 2SK1529-Y	
* 105	A-4417-195-A	TONE BOARD, COMPLETE (UK)		Q512	8-729-232-46	TRANSISTOR 2SJ200-Y	
* 106	1-669-492-11	S-D LED BOARD		Q611	8-729-232-45	TRANSISTOR 2SK1529-Y	
* 107	1-669-491-11	HP BOARD					
* 108	1-669-489-11	VOL BOARD		Q612	8-729-232-46	TRANSISTOR 2SJ200-Y	
				Q702	8-729-209-15	TRANSISTOR 2SD2012	
* 109	1-669-473-11	PS BOARD		△ T1	1-431-827-11	TRANSFORMER, POWER (UK)	
* 110	A-4407-613-A	SP-TM BOARD, COMPLETE (AEP,G,EE,MY,SP,AUS)		△ T1	1-431-873-11	TRANSFORMER, POWER (AEP,G,EE,MY,SP,AUS)	

SECTION 5 ELECTRICAL PARTS LIST

Note:

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 name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F : nonflammable

- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,
uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS
uF : μ F
- COILS
uH : μ H
- Abbreviation
G : German model
EE : East European model
AUS : Australian model
SP : Singapore model
MY : Malaysia mdoel

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	1-669-491-11	HP BOARD ***** < JACK >				< DIODE >	
J801	1-770-307-11	JACK (LARGE TYPE)(PHONES)		D100	8-719-911-19	DIODE 1SS119-25	
*****				D101	8-719-911-19	DIODE 1SS119-25	
*	A-4407-607-A	INPUT BOARD, COMPLETE ***** (AEP,G,EE,MY,SP,AUS)		D102	8-719-911-19	DIODE 1SS119-25	
*	A-4407-771-A	INPUT BOARD, COMPLETE (UK) ***** < CAPACITOR >		D103	8-719-911-19	DIODE 1SS119-25	
C101	1-162-286-31	CERAMIC 220PF 10% 50V (AEP,G,EE,MY,SP,AUS)		D104	8-719-911-19	DIODE 1SS119-25	
C102	1-162-286-31	CERAMIC 220PF 10% 50V (AEP,G,EE,MY,SP,AUS)		D105	8-719-911-19	DIODE 1SS119-25	
C103	1-162-286-31	CERAMIC 220PF 10% 50V (AEP,G,EE,MY,SP,AUS)		D106	8-719-911-19	DIODE 1SS119-25	
C104	1-162-286-31	CERAMIC 220PF 10% 50V (AEP,G,EE,MY,SP,AUS)		D107	8-719-911-19	DIODE 1SS119-25	
C105	1-162-286-31	CERAMIC 220PF 10% 50V (AEP,G,EE,MY,SP,AUS)		D108	8-719-986-29	DIODE HZS12B3LTA	
C140	1-126-052-11	ELECT 100uF 20% 50V		D140	8-719-986-38	DIODE HZS16-1LTA	
C141	1-126-023-11	ELECT 100uF 20% 25V		D240	8-719-986-38	DIODE HZS16-1LTA	
C142	1-126-024-11	ELECT 220uF 20% 25V				< JACK >	
C201	1-162-286-31	CERAMIC 220PF 10% 50V (AEP,G,EE,MY,SP,AUS)		J101	1-784-934-11	JACK, PIN 4P (TUNER IN, CD IN)	
C202	1-162-286-31	CERAMIC 220PF 10% 50V (AEP,G,EE,MY,SP,AUS)		J102	1-770-015-11	JACK, PIN 6P (AUX IN, TAPE2/MD)	
C203	1-162-286-31	CERAMIC 220PF 10% 50V (AEP,G,EE,MY,SP,AUS)		J103	1-573-028-31	JACK, PIN 4P (TAPE1/DAT)	
C204	1-162-286-31	CERAMIC 220PF 10% 50V (AEP,G,EE,MY,SP,AUS)				< TRANSISTOR >	
C205	1-162-286-31	CERAMIC 220PF 10% 50V (AEP,G,EE,MY,SP,AUS)		Q100	8-729-900-80	TRANSISTOR DTC114ES	
C240	1-126-052-11	ELECT 100uF 20% 50V		Q101	8-729-900-80	TRANSISTOR DTC114ES	
C241	1-126-023-11	ELECT 100uF 20% 25V		Q102	8-729-900-80	TRANSISTOR DTC114ES	
C242	1-126-024-11	ELECT 220uF 20% 25V		Q103	8-729-900-80	TRANSISTOR DTC114ES	
		< CONNECTOR >		Q104	8-729-900-80	TRANSISTOR DTC114ES	
CN102	1-691-768-11	PLUG (MICRO CONNECTOR) 6P		Q105	8-729-900-80	TRANSISTOR DTC114ES	
CN103	1-691-773-11	PLUG (MICRO CONNECTOR) 11P		Q140	8-729-119-78	TRANSISTOR 2SC2785-HFE	
CN104	1-691-765-11	PLUG (MICRO CONNECTOR) 3P		Q240	8-729-201-53	TRANSISTOR 2SA1015-GR	
						< RESISTOR >	
				R101	1-259-239-11	CARBON 1M 5% 1/4W	
				R102	1-259-239-11	CARBON 1M 5% 1/4W	
				R103	1-259-239-11	CARBON 1M 5% 1/4W	
				R104	1-259-239-11	CARBON 1M 5% 1/4W	
				R105	1-259-239-11	CARBON 1M 5% 1/4W	
				R114	1-259-239-11	CARBON 1M 5% 1/4W	
				R115	1-259-239-11	CARBON 1M 5% 1/4W	
				R124	1-259-167-21	CARBON 1K 5% 1/4W	
				R125	1-259-167-21	CARBON 1K 5% 1/4W	
				R140	1-249-198-11	CARBON 330 5% 1/3W	
				R141	1-249-198-11	CARBON 330 5% 1/3W	
				R142	1-249-198-11	CARBON 330 5% 1/3W	
				R143	1-249-198-11	CARBON 330 5% 1/3W	
				R144	1-259-187-11	CARBON 6.8K 5% 1/4W	
				R201	1-259-239-11	CARBON 1M 5% 1/4W	

Ref. No.	Part No.	Description	Remark		
R202	1-259-239-11	CARBON	1M	5%	1/4W
R203	1-259-239-11	CARBON	1M	5%	1/4W
R204	1-259-239-11	CARBON	1M	5%	1/4W
R205	1-259-239-11	CARBON	1M	5%	1/4W
R214	1-259-239-11	CARBON	1M	5%	1/4W
R215	1-259-239-11	CARBON	1M	5%	1/4W
R224	1-259-167-21	CARBON	1K	5%	1/4W
R225	1-259-167-21	CARBON	1K	5%	1/4W
R240	1-249-198-11	CARBON	330	5%	1/3W
R241	1-249-198-11	CARBON	330	5%	1/3W
R242	1-249-198-11	CARBON	330	5%	1/3W
R243	1-249-198-11	CARBON	330	5%	1/3W
R244	1-259-187-11	CARBON	6.8K	5%	1/4W
< RELAY >					
RY100	1-515-614-11	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			

*	A-4407-612-A	MAIN BOARD, COMPLETE (AEP,G,EE,MY,SP,AUS)			

*	A-4407-772-A	MAIN BOARD, COMPLETE (UK)			

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

Ref. No.	Part No.	Description	Remark		
C610	1-128-200-11	ELECT	47uF	20%	63V
C611	1-102-978-00	CERAMIC	220PF	5%	50V
C612	1-136-163-00	FILM	0.068uF	5%	50V
C613	1-136-163-00	FILM	0.068uF	5%	50V
C617	1-126-023-11	ELECT	100uF	20%	16V
C712	1-128-552-51	ELECT	47uF	20%	63V
C713	1-126-933-11	ELECT	100uF	20%	16V
C714	1-126-964-11	ELECT	10uF	20%	50V
C720	1-110-397-11	ELECT	1000uF	20%	63V
C721	1-110-397-11	ELECT	1000uF	20%	63V
< CONNECTOR >					
CN500	1-564-506-11	PLUG, CONNECTOR 3P			
CN503	1-691-770-11	PLUG (MICRO CONNECTOR) 8P			
CN600	1-564-506-11	PLUG, CONNECTOR 3P			
CN700	1-691-768-11	PLUG (MICRO CONNECTOR) 6P			
< DIODE >					
D500	8-719-911-19	DIODE 1SS119-25			
D501	8-719-911-19	DIODE 1SS119-25			
D502	8-719-911-19	DIODE 1SS119-25			
D503	8-719-933-39	DIODE HZS6C1L			
D504	8-719-911-19	DIODE 1SS119-25			
D505	8-719-911-19	DIODE 1SS119-25			
D506	8-719-310-61	DIODE SEL1510C-D			
D600	8-719-911-19	DIODE 1SS119-25			
D601	8-719-911-19	DIODE 1SS119-25			
D602	8-719-911-19	DIODE 1SS119-25			
D603	8-719-933-39	DIODE HZS6C1L			
D604	8-719-911-19	DIODE 1SS119-25			
D605	8-719-911-19	DIODE 1SS119-25			
D606	8-719-310-61	DIODE SEL1510C-D			
D703	8-719-933-39	DIODE HZS6C1L			
D720	8-719-024-99	DIODE 11ES2-NTA2B			
D721	8-719-024-99	DIODE 11ES2-NTA2B			
< BRIDGE >					
JWH711	4-999-918-01	BRIDGE (PC-BOARD)			
JWH712	4-999-918-01	BRIDGE (PC-BOARD)			
JWH713	4-999-918-01	BRIDGE (PC-BOARD)			
JWH714	4-999-918-01	BRIDGE (PC-BOARD)			
JWH715	4-999-918-01	BRIDGE (PC-BOARD)			
< TRANSISTOR >					
Q500	8-729-045-15	TRANSISTOR 2SC5169-FG			
Q501	8-729-201-53	TRANSISTOR 2SA1015-GR			
Q502	8-729-201-53	TRANSISTOR 2SA1015-GR			
Q503	8-729-201-53	TRANSISTOR 2SA1015-GR			
Q504	8-729-021-74	TRANSISTOR 2SA949-OY-TPE6			
Q505	8-729-202-67	TRANSISTOR 2SK246-GR3			
Q506	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q507	8-729-021-73	TRANSISTOR 2SC2229-OY-TPE6			
Q508	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q509	8-729-104-18	TRANSISTOR 2SC3514			
Q510	8-729-104-91	TRANSISTOR 2SA1383			
Q511	8-729-232-45	TRANSISTOR 2SK1529-Y			
Q512	8-729-232-46	TRANSISTOR 2SJ200-Y			
Q513	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			

MAIN	OUTLET	PANEL
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Ref. No.	Part No.	Description	Remark
Q600	8-729-045-15	TRANSISTOR 2SC5169-FG	
Q601	8-729-201-53	TRANSISTOR 2SA1015-GR	
Q602	8-729-201-53	TRANSISTOR 2SA1015-GR	
Q603	8-729-201-53	TRANSISTOR 2SA1015-GR	
Q604	8-729-021-74	TRANSISTOR 2SA949-OY-TPE6	
Q605	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q606	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q607	8-729-021-73	TRANSISTOR 2SC2229-OY-TPE6	
Q608	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q609	8-729-104-18	TRANSISTOR 2SC3514	
Q610	8-729-104-91	TRANSISTOR 2SA1383	
Q611	8-729-232-45	TRANSISTOR 2SK1529-Y	
Q612	8-729-232-46	TRANSISTOR 2SJ200-Y	
Q613	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q702	8-729-209-15	TRANSISTOR 2SD2012	
< RESISTOR >			
R500	1-259-167-21	CARBON 1K 5%	1/4W
R501	1-259-215-21	CARBON 100K 5%	1/4W
R502	1-259-151-21	CARBON 220 5%	1/4W
R503	1-259-151-21	CARBON 220 5%	1/4W
R504	1-259-151-21	CARBON 220 5%	1/4W
R505	1-259-179-21	CARBON 3.3K 5%	1/4W
R506	1-259-151-21	CARBON 220 5%	1/4W
R507	1-259-151-21	CARBON 220 5%	1/4W
R508	1-249-244-11	CARBON 27K 5%	1/3W
R509	1-259-175-11	CARBON 2.2K 5%	1/4W
R510	1-259-183-11	CARBON 4.7K 5%	1/4W
△ R511	1-249-899-11	CARBON 100 5%	1/4W F
R512	1-259-171-21	CARBON 1.5K 5%	1/4W
R513	1-259-167-21	CARBON 1K 5%	1/4W
R514	1-249-258-11	CARBON 100K 5%	1/3W
R515	1-259-143-21	CARBON 100 5%	1/4W
R516	1-249-204-11	CARBON 560 5%	1/3W
△ R517	1-247-688-11	CARBON 10 5%	1/4W F
△ R518	1-247-688-11	CARBON 10 5%	1/4W F
△ R519	1-247-745-11	CARBON 330 5%	1/2W F
△ R520	1-249-405-11	CARBON 100 5%	1/4W F
△ R521	1-249-405-11	CARBON 100 5%	1/4W F
△ R522	1-208-601-11	REGISTER 0.1 10%	2W F
△ R523	1-208-601-11	REGISTER 0.1 10%	2W F
R524	1-259-436-11	CARBON 2.2K 5%	1/6W
R525	1-259-432-11	CARBON 1.5K 5%	1/6W
R526	1-249-162-11	CARBON 10 5%	1/3W
R527	1-259-484-11	CARBON 220K 5%	1/6W
R600	1-259-167-21	CARBON 1K 5%	1/4W
R601	1-259-215-21	CARBON 100K 5%	1/4W
R602	1-259-151-21	CARBON 220 5%	1/4W
R603	1-259-151-21	CARBON 220 5%	1/4W
R604	1-259-151-21	CARBON 220 5%	1/4W
R605	1-259-179-21	CARBON 3.3K 5%	1/4W
R606	1-259-151-21	CARBON 220 5%	1/4W
R607	1-259-151-21	CARBON 220 5%	1/4W
R608	1-249-244-11	CARBON 27K 5%	1/3W
R609	1-259-175-11	CARBON 2.2K 5%	1/4W
R610	1-259-183-11	CARBON 4.7K 5%	1/4W
△ R611	1-249-899-11	CARBON 100 5%	1/4W F

Ref. No.	Part No.	Description	Remark
R612	1-259-171-21	CARBON 1.5K 5%	1/4W
R613	1-259-167-21	CARBON 1K 5%	1/4W
R614	1-249-258-11	CARBON 100K 5%	1/3W
R615	1-259-143-21	CARBON 100 5%	1/4W
R616	1-249-204-11	CARBON 560 5%	1/3W
△ R617	1-247-688-11	CARBON 10 5%	1/4W F
△ R618	1-247-688-11	CARBON 10 5%	1/4W F
△ R619	1-247-745-11	CARBON 330 5%	1/2W F
△ R620	1-249-899-11	CARBON 100 5%	1/4W F
△ R621	1-249-899-11	CARBON 100 5%	1/4W F
△ R622	1-208-601-11	REGISTER 0.1 10%	2W F
△ R623	1-208-601-11	REGISTER 0.1 10%	2W F
R624	1-259-436-11	CARBON 2.2K 5%	1/6W
R625	1-259-432-11	CARBON 1.5K 5%	1/6W
R626	1-249-162-11	CARBON 10 5%	1/3W
R627	1-259-484-11	CARBON 220K 5%	1/6W
R709	1-249-425-11	CARBON 4.7K 5%	1/4W F
< VARIABLE RESISTOR >			
RV500	1-241-762-11	RES, ADJ, CARBON 2.2K	
RV600	1-241-762-11	RES, ADJ, CARBON 2.2K	

*	1-669-476-11	OUTLET BOARD (AEP,G,EE,MY,SP,AUS)	

< CONNECTOR >			
△ CNJ3	1-526-794-11	OUTLET, AC (AC OUTLET)(AEP,G,EE,MY,SP,AUS)	
△ CNJ4	1-526-794-11	OUTLET, AC (AC OUTLET)(AEP,G,EE,MY,SP,AUS)	
< FUSE >			
△ F2	1-532-464-51	FUSE, TIME LAG (T2.5AL/250V) (AEP,G,EE,MY,SP,AUS)	
< FUSE HOLDER >			
FH3	1-533-233-11	HOLDER, FUSE (AEP,G,EE,MY,SP,AUS)	
FH4	1-533-233-11	HOLDER, FUSE (AEP,G,EE,MY,SP,AUS)	

*	A-4407-605-A	PANEL BOARD, COMPLETE (AEP,G,EE,MY,SP,AUS)	

*	A-4407-770-A	PANEL BOARD, COMPLETE (UK)	

< CAPACITOR >			
C900	1-126-786-11	ELECT 47uF 20%	16V
C901	1-126-916-11	ELECT 1000uF 20%	6.3V
C902	1-162-294-31	CERAMIC 0.001uF 10%	50V
C903	1-162-294-31	CERAMIC 0.001uF 10%	50V
C904	1-164-159-11	CERAMIC 0.1uF	50V
C905	1-162-294-31	CERAMIC 0.001uF 10%	50V
C906	1-126-795-11	ELECT 10uF 20%	50V
C907	1-162-294-31	CERAMIC 0.001uF 10%	50V
C908	1-126-786-11	ELECT 47uF 20%	16V
C909	1-126-795-11	ELECT 10uF 20%	50V

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C912	1-126-786-11	ELECT 47uF 20% 16V		Q921	8-729-422-57	TRANSISTOR UN4111	
		< CONNECTOR >		Q922	8-729-422-57	TRANSISTOR UN4111	
* CN300	1-564-522-11	PLUG, CONNECTOR 7P		Q923	8-729-422-57	TRANSISTOR UN4111	
* CN301	1-564-526-11	PLUG, CONNECTOR 11P		Q924	8-729-422-57	TRANSISTOR UN4111	
CN304	1-766-797-11	CONNECTOR, BOARD TO BOARD 10P		Q925	8-729-422-57	TRANSISTOR UN4111	
CN903	1-766-928-11	CONNECTOR, BOARD TO BOARD 8P				< RESISTOR >	
* CN904	1-564-527-11	PLUG, CONNECTOR 12P		R310	1-259-464-11	CARBON 33K 5% 1/6W	
* CN905	1-564-522-11	PLUG, CONNECTOR 7P		R311	1-259-446-11	CARBON 5.6K 5% 1/6W	
CN907	1-766-928-11	CONNECTOR, BOARD TO BOARD 8P		R410	1-259-464-11	CARBON 33K 5% 1/6W	
		< DIODE >		R411	1-259-446-11	CARBON 5.6K 5% 1/6W	
D901	8-719-313-50	DIODE SEL6810A-TH12 (EON LINK)		R901	1-249-393-11	CARBON 10 5% 1/4W F	
D902	8-719-313-50	DIODE SEL6810A-TH12 (PHONO)		R905	1-249-429-11	CARBON 10K 5% 1/4W	
D903	8-719-313-50	DIODE SEL6810A-TH12 (TUNER)		R906	1-249-429-11	CARBON 10K 5% 1/4W	
D904	8-719-313-50	DIODE SEL6810A-TH12 (CD)		R907	1-249-429-11	CARBON 10K 5% 1/4W	
D905	8-719-313-50	DIODE SEL6810A-TH12 (AUX)		R908	1-249-437-11	CARBON 47K 5% 1/4W	
				R909	1-249-429-11	CARBON 10K 5% 1/4W	
D906	8-719-313-50	DIODE SEL6810A-TH12 (TAPE2/MD)		R910	1-249-401-11	CARBON 47 5% 1/4W F	
D907	8-719-313-50	DIODE SEL6810A-TH12 (TAPE1/DAT)		R911	1-249-411-11	CARBON 330 5% 1/4W	
D910	8-719-911-19	DIODE 1SS119-25		R912	1-249-429-11	CARBON 10K 5% 1/4W	
D911	8-719-911-19	DIODE 1SS119-25		R913	1-249-425-11	CARBON 4.7K 5% 1/4W F	
D912	8-719-911-19	DIODE 1SS119-25		R914	1-247-807-31	CARBON 100 5% 1/4W	
D913	8-719-911-19	DIODE 1SS119-25		R917	1-249-433-11	CARBON 22K 5% 1/4W	
D914	8-719-911-19	DIODE 1SS119-25		R918	1-249-421-11	CARBON 2.2K 5% 1/4W F	
D915	8-719-911-19	DIODE 1SS119-25		R919	1-249-421-11	CARBON 2.2K 5% 1/4W F	
D916	8-719-024-99	DIODE 11ES2-NTA2B		R920	1-249-429-11	CARBON 10K 5% 1/4W	
D917	8-719-911-19	DIODE 1SS119-25		R921	1-249-429-11	CARBON 10K 5% 1/4W	
D918	8-719-985-66	DIODE HZS5BLL-TA		R922	1-249-429-11	CARBON 10K 5% 1/4W	
D919	8-719-911-19	DIODE 1SS119-25		R923	1-249-429-11	CARBON 10K 5% 1/4W	
D920	8-719-911-19	DIODE 1SS119-25		R924	1-249-429-11	CARBON 10K 5% 1/4W	
D921	8-719-911-19	DIODE 1SS119-25		R958	1-249-406-11	CARBON 120 5% 1/4W F	
D922	8-719-911-19	DIODE 1SS119-25				< SWITCH >	
D923	8-719-911-19	DIODE 1SS119-25		S302	1-762-393-11	SWITCH, PUSH (SOURCE DIRECT)	
D924	8-719-911-19	DIODE 1SS119-25		S902	1-771-383-11	SWITCH, ROTARY (INPUT SELECTOR)	
		< IC >				< VIBRATOR >	
IC901	8-759-962-08	IC BA6208		X900	1-577-358-21	VIBRATOR, CERAMIC (4MHZ)	
IC902	8-759-392-41	IC TMP47C103N-JP47				*****	
		< PHOTO INTERRUPTER >					
PH900	8-719-902-56	PHOTO COUPLER PC817		*	A-4407-615-A	PHONO BOARD, COMPLETE	
		< TRANSISTOR >				*****	
Q900	8-729-620-05	TRANSISTOR 2SC2603-EF				(AEP,G,EE,MY,SP,AUS)	
Q901	8-729-900-63	TRANSISTOR DTA124ES					
Q902	8-729-900-63	TRANSISTOR DTA124ES					
Q903	8-729-900-80	TRANSISTOR DTC114ES					
Q904	8-729-422-57	TRANSISTOR UN4111				< CAPACITOR >	
Q905	8-729-422-57	TRANSISTOR UN4111		C150	1-102-978-00	CERAMIC 220PF 5% 50V	
Q906	8-729-422-57	TRANSISTOR UN4111		C151	1-126-048-11	ELECT 10uF 20% 50V	
Q907	8-729-119-78	TRANSISTOR 2SC2785-HFE		C152	1-101-973-00	CERAMIC 100PF 5% 50V	
Q908	8-729-620-05	TRANSISTOR 2SC2603-EF				(AEP,G,EE,MY,SP,AUS)	
Q909	8-729-620-05	TRANSISTOR 2SC2603-EF		C153	1-106-359-00	MYLAR 4700PF 5% 200V	
Q910	8-729-422-57	TRANSISTOR UN4111		C154	1-126-023-11	ELECT 100uF 20% 25V	
Q911	8-729-201-53	TRANSISTOR 2SA1015-GR		C155	1-130-341-00	FILM 0.056uF 3% 100V	
Q920	8-729-422-57	TRANSISTOR UN4111		C156	1-130-971-00	FILM 0.016uF 3% 100V	
				C157	1-126-048-11	ELECT 10uF 20% 50V	

PHONO

PS

S-D LED

Ref. No.	Part No.	Description	Remark			
C170	1-126-023-11	ELECT	100uF	20%	25V	
C171	1-136-165-00	FILM	0.1uF	5%	50V	
C172	1-136-165-00	FILM	0.1uF	5%	50V	
C250	1-102-978-00	CERAMIC	220PF	5%	50V	
C251	1-126-048-11	ELECT	10uF	20%	50V	
C252	1-101-973-00	CERAMIC	100PF	5%	50V	
			(AEP,G,EE,MY,SP,AUS)			
C253	1-106-359-00	MYLAR	4700PF	5%	200V	
C254	1-126-023-11	ELECT	100uF	20%	25V	
C255	1-130-341-00	FILM	0.056uF	3%	100V	
C256	1-130-971-00	FILM	0.016uF	3%	100V	
C257	1-126-048-11	ELECT	10uF	20%	50V	

< CONNECTOR >

CN151 1-691-768-11 PLUG (MICRO CONNECTOR) 6P

< DIODE >

D170 8-719-985-97 DIODE HZS7B1LTA

< IC >

IC150 8-759-701-25 IC NJM2068D-D

< JACK >

J150 1-764-593-21 JACK 2P (PHONO IN)(AEP,G,EE,MY,SP,AUS)

J150 1-784-933-11 JACK 2P (PHONO IN)(UK)

< COIL >

L150 1-410-977-11 INDUCTOR 100uH (AEP,G,EE,MY,SP,AUS)

L151 1-410-977-11 INDUCTOR 100uH (AEP,G,EE,MY,SP,AUS)

L250 1-410-977-11 INDUCTOR 100uH (AEP,G,EE,MY,SP,AUS)

L251 1-410-977-11 INDUCTOR 100uH (AEP,G,EE,MY,SP,AUS)

< TRANSISTOR >

Q150 8-729-354-52 TRANSISTOR 2SC2545

Q151 8-729-354-52 TRANSISTOR 2SC2545

Q250 8-729-354-52 TRANSISTOR 2SC2545

Q251 8-729-354-52 TRANSISTOR 2SC2545

< RESISTOR >

R150 1-259-175-11 CARBON 2.2K 5% 1/4W
(AEP,G,EE,MY,SP,AUS)

R151 1-249-911-11 CARBON 330 5% 1/4W

R152 1-259-215-21 CARBON 100K 5% 1/4W

R153 1-259-215-21 CARBON 100K 5% 1/4W

R154 1-259-161-21 CARBON 560 5% 1/4W

R155 1-259-161-21 CARBON 560 5% 1/4W

R156 1-259-143-21 CARBON 100 5% 1/4W

R157 1-259-191-21 CARBON 10K 5% 1/4W

R158 1-259-144-11 CARBON 110 5% 1/4W

R159 1-259-346-81 CARBON 56K 1% 1/2W

R160 1-259-320-11 CARBON 4.7K 1% 1/2W

R161 1-259-239-11 CARBON 1M 5% 1/4W

R162 1-259-167-21 CARBON 1K 5% 1/4W

R170 1-259-171-21 CARBON 1.5K 5% 1/4W

R250 1-259-175-11 CARBON 2.2K 5% 1/4W
(AEP,G,EE,MY,SP,AUS)

Ref. No.	Part No.	Description	Remark			
R251	1-249-911-11	CARBON	330	5%	1/4W	
R252	1-259-215-21	CARBON	100K	5%	1/4W	
R253	1-259-215-21	CARBON	100K	5%	1/4W	
R254	1-259-161-21	CARBON	560	5%	1/4W	
R255	1-259-161-21	CARBON	560	5%	1/4W	
R256	1-259-143-21	CARBON	100	5%	1/4W	
R257	1-259-191-21	CARBON	10K	5%	1/4W	
R258	1-259-144-11	CARBON	110	5%	1/4W	
R259	1-259-346-81	CARBON	56K	1%	1/2W	
R260	1-259-320-11	CARBON	4.7K	1%	1/2W	
R261	1-259-239-11	CARBON	1M	5%	1/4W	
R262	1-259-167-21	CARBON	1K	5%	1/4W	

* 1-669-473-11 PS BOARD

< CAPACITOR >

C750 1-125-821-11 CERAMIC 10000uF 56V

C751 1-125-821-11 CERAMIC 10000uF 56V

C754 1-137-398-11 FILM 0.068uF 5% 100V

C755 1-137-398-11 FILM 0.068uF 5% 100V

C756 1-104-999-11 MYLAR 0.1uF 10% 200V

< CONNECTOR >

CN1 1-774-108-11 PIN, CONNECTOR (PC BOARD)

CN2 1-564-321-00 PIN, CONNECTOR 2P

CN3 1-564-321-00 PIN, CONNECTOR 2P

* CN4 1-564-321-21 PIN, CONNECTOR 2P (AEP,G,EE,MY,SP,AUS)

* CN750 1-564-687-11 PIN, CONNECTOR 3P

* CN751 1-766-920-11 PIN, CONNECTOR 4P

CN752 1-770-832-11 CONNECTOR, BOARD TO BOARD 6P

< DIODE >

D751 8-719-230-02 DIODE 30DF2

D752 8-719-230-02 DIODE 30DF2

D753 8-719-230-02 DIODE 30DF2

D754 8-719-230-02 DIODE 30DF2

< FUSE >

△ F1 1-532-504-51 FUSE, TIME LAG (T4.0AL/250V)

< FUSE HOLDER >

FH1 1-533-233-11 HOLDER, FUSE

FH2 1-533-233-11 HOLDER, FUSE

< RESISTOR >

△ R750 1-212-974-00 FUSIBLE 47 5% 1/2W F

* 1-669-492-11 S-D LED BOARD

< CONNECTOR >

CN910 1-691-758-51 PIN, CONNECTOR 3P

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

S-D LED

SIRCS

SIRCS SUB

SP-TM

Ref. No.	Part No.	Description	Remark		
< DIODE >					
D908	8-719-046-38	DIODE SEL5821A-TH8F (SOURCE DIRECT)			
< RESISTOR >					
R927	1-249-406-11	CARBON	120	5%	1/4W F

*	1-669-490-11	SIRCS BOARD			

< CONNECTOR >					
CN900	1-691-766-11	PLUG (MICRO CONNECTOR) 4P			
* CN911	1-560-666-00	PIN, CONNECTOR 3P			
< DIODE >					
D900	8-719-046-46	DIODE SEL5221S-TH8F (PROTECTION)			
< RESISTOR >					
R900	1-249-409-11	CARBON	220	5%	1/4W F

*	1-670-219-11	SIRCS SUB BOARD			

< CONNECTOR >					
* CN912	1-565-835-11	SOCKET, CONNECTOR 3P			
< IC >					
IC900	8-749-014-66	IC NJL64H400A			

*	A-4407-613-A	SP-TM BOARD, COMPLETE			

(AEP,G,EEMY,SP,AUS)					
*	A-4407-773-A	SP-TM BOARD, COMPLETE (UK)			

< CAPACITOR >					
C515	1-162-282-31	CERAMIC	100PF	10%	50V
C516	1-162-282-31	CERAMIC	100PF	10%	50V
C615	1-162-282-31	CERAMIC	100PF	10%	50V
C616	1-162-282-31	CERAMIC	100PF	10%	50V
C700	1-126-965-11	ELECT	22uF	20%	50V
C701	1-136-163-00	FILM	0.068uF	5%	50V
C702	1-124-995-11	ELECT	220uF	20%	10V
C703	1-136-157-00	FILM	0.022uF	5%	50V
C704	1-126-967-11	ELECT	47uF	20%	16V
C705	1-126-967-11	ELECT	47uF	20%	16V
C706	1-137-150-11	MYLAR	0.01uF	10%	100V
C707	1-137-150-11	MYLAR	0.01uF	10%	100V
C708	1-128-578-11	ELECT	1uF	20%	100V
C709	1-128-556-11	ELECT	1000uF	20%	63V
C710	1-128-553-11	ELECT	220uF	20%	63V
C711	1-128-582-11	ELECT	10uF	20%	63V
C715	1-164-159-11	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description	Remark			
		< CONNECTOR >				
CN702	1-770-831-11	CONNECTOR, BOARD TO BOARD 6P				
CN703	1-566-212-11	PIN, CONNECTOR 3P (EON CONTROL)				
		< DIODE >				
D511	8-719-911-19	DIODE 1SS119-25				
D512	8-719-911-19	DIODE 1SS119-25				
D513	8-719-911-19	DIODE 1SS119-25				
D700	8-719-024-99	DIODE 11ES2-NTA2B				
D701	8-719-024-99	DIODE 11ES2-NTA2B				
D702	8-719-024-99	DIODE 11ES2-NTA2B				
		< IC >				
IC700	8-759-111-68	IC UPC1237HA				
		< COIL >				
L501	1-411-906-11	COIL, AIR-CORE				
L601	1-411-906-11	COIL, AIR-CORE				
		< TRANSISTOR >				
Q700	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		< RESISTOR >				
R528	1-249-162-11	CARBON 10 5% 1/3W				
R529	1-249-206-11	CARBON 680 5% 1/3W				
△ R530	1-212-857-00	FUSIBLE 10 5% 1/4W F				
△ R531	1-212-857-00	FUSIBLE 10 5% 1/4W F				
R628	1-249-162-11	CARBON 10 5% 1/3W				
R629	1-249-206-11	CARBON 680 5% 1/3W				
△ R630	1-212-857-00	FUSIBLE 10 5% 1/4W F				
△ R631	1-212-857-00	FUSIBLE 10 5% 1/4W F				
R700	1-249-435-11	CARBON 33K 5% 1/4W				
R701	1-249-429-11	CARBON 10K 5% 1/4W				
R702	1-249-429-11	CARBON 10K 5% 1/4W				
R703	1-259-476-11	CARBON 100K 5% 1/6W				
R704	1-249-433-11	CARBON 22K 5% 1/4W				
R705	1-247-883-00	CARBON 150K 5% 1/4W				
R706	1-249-431-11	CARBON 15K 5% 1/4W				
R707	1-249-429-11	CARBON 10K 5% 1/4W				
△ R708	1-217-497-00	FUSIBLE 220 5% 1W F				
R710	1-247-749-11	CARBON 470 5% 1/2W F				
R710	1-247-231-11	CARBON 430 5% 1/2W F				
R711	1-247-749-11	CARBON 470 5% 1/2W F				
R711	1-247-231-11	CARBON 430 5% 1/2W F				
		< RELAY >				
RY501	1-515-921-11	RELAY (12V)				
RY502	1-515-921-11	RELAY (12V)				
RY503	1-515-920-11	RELAY (24V)				
		< TERMINAL >				
* TM501	1-537-699-11	TERMINAL BOARD (SP)(SPEAKERS)				

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

TONE

VOL

Ref. No.	Part No.	Description	Remark			
*	A-4407-606-A	TONE BOARD, COMPLETE (AEP,G,EE,MY,SP,PAUS)	*****			
*	A-4417-195-A	TONE BOARD, COMPLETE (UK)	*****			
< CAPACITOR >						
C300	1-136-171-00	FILM	0.33uF	5%	50V	
C301	1-130-475-00	FILM	0.0022uF	5%	50V	
C302	1-136-153-00	FILM	0.01uF	5%	50V	
C303	1-136-155-00	FILM	0.015uF	5%	50V	
C304	1-136-165-00	FILM	0.1uF	5%	50V	
C305	1-136-165-00	FILM	0.1uF	5%	50V	
C306	1-130-471-00	FILM	0.001uF	5%	50V	
C400	1-136-171-00	FILM	0.33uF	5%	50V	
C401	1-130-475-00	FILM	0.0022uF	5%	50V	
C402	1-136-153-00	FILM	0.01uF	5%	50V	
C403	1-136-155-00	FILM	0.015uF	5%	50V	
C404	1-136-165-00	FILM	0.1uF	5%	50V	
C405	1-136-165-00	FILM	0.1uF	5%	50V	
C406	1-130-471-00	FILM	0.001uF	5%	50V	
< CONNECTOR >						
CN305	1-784-912-11	CONNECTOR, BOARD TO BOARD 10P				
CN801	1-564-524-11	PLUG, CONNECTOR 9P				
* CN802	1-564-519-11	PLUG, CONNECTOR 4P				
CN901	1-784-911-11	CONNECTOR, BOARD TO BOARD 8P				
CN908	1-784-911-11	CONNECTOR, BOARD TO BOARD 8P				
< RESISTOR >						
R300	1-259-500-11	CARBON	1M	5%	1/6W	
R301	1-259-500-11	CARBON	1M	5%	1/6W	
R302	1-259-446-11	CARBON	5.6K	5%	1/6W	
R303	1-259-436-11	CARBON	2.2K	5%	1/6W	
R304	1-259-500-11	CARBON	1M	5%	1/6W	
R305	1-259-464-11	CARBON	33K	5%	1/6W	
R306	1-259-456-11	CARBON	15K	5%	1/6W	
R307	1-259-446-11	CARBON	5.6K	5%	1/6W	
R308	1-259-456-11	CARBON	15K	5%	1/6W	
R309	1-259-500-11	CARBON	1M	5%	1/6W	
R391	1-249-429-11	CARBON	10K	5%	44W	F
R392	1-249-429-11	CARBON	10K	5%	44W	F
R393	1-249-429-11	CARBON	10K	5%	44W	F
R400	1-259-500-11	CARBON	1M	5%	1/6W	
R401	1-259-500-11	CARBON	1M	5%	1/6W	
R402	1-259-446-11	CARBON	5.6K	5%	1/6W	
R403	1-259-436-11	CARBON	2.2K	5%	1/6W	
R404	1-259-500-11	CARBON	1M	5%	1/6W	
R405	1-259-464-11	CARBON	33K	5%	1/6W	
R406	1-259-456-11	CARBON	15K	5%	1/6W	
R407	1-259-446-11	CARBON	5.6K	5%	1/6W	
R408	1-259-456-11	CARBON	15K	5%	1/6W	
R409	1-259-500-11	CARBON	1M	5%	1/6W	
R801	1-247-751-11	CARBON	820	5%	1/2W	
R802	1-247-751-11	CARBON	820	5%	1/2W	
R803	1-247-751-11	CARBON	820	5%	1/2W	
R804	1-247-751-11	CARBON	820	5%	1/2W	
R805	1-247-751-11	CARBON	820	5%	1/2W	

Ref. No.	Part No.	Description			Remark
R806	1-247-751-11	CARBON	820	5%	1/2W
R807	1-247-231-11	CARBON	430	5%	1/2W
R808	1-247-231-11	CARBON	430	5%	1/2W
R809	1-247-231-11	CARBON	430	5%	1/2W
R810	1-247-231-11	CARBON	430	5%	1/2W
R902	1-247-751-11	CARBON	820	5%	1/2W
R904	1-249-429-11	CARBON	10K	5%	1/4W
R916	1-247-239-00	CARBON	910	5%	1/2W
< VARIABLE RESISTOR >					
RV301	1-225-642-11	RES, VAR, CARBON 250K/250K (BALANCE)			
RV302	1-225-643-11	RES, VAR, CARBON 250K/250K (TONE TREBLE)			
RV303	1-225-644-11	RES, VAR, CARBON 900K/900K (TONE BASS)			
< SWITCH >					
S301	1-571-112-21	SWITCH, PUSH (1 KEY)(SUBSONIC)			
S303	1-762-387-11	SWITCH, PUSH (LOUDNESS)			
S801	1-771-384-11	SWITCH, ROTARY (SPEAKERS)			
S901	1-762-203-11	SWITCH, PUSH (1 KEY)(EON LINK)			
S903	1-762-656-11	SWITCH, ROTARY (TAPE MONITOR)			

*	1-669-489-11	VOL BOARD			

< CAPACITOR >					
C310	1-136-165-00	FILM	0.1uF	5%	50V
< CONNECTOR >					
CN302	1-691-772-11	PLUG (MICRO CONNECTOR) 10P			
CN303	1-691-768-11	PLUG (MICRO CONNECTOR) 6P			
< VARIABLE RESISTOR >					
RV300	1-225-227-11	RES, VAR, CARBON 120K/120K (VOLULME)			

MISCELLANEOUS					

△ 11	1-777-185-11	CORD, POWER			
△ 12	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P			
△ CNJ3	1-526-794-11	OUTLET, AC (AC OUTLET)(AEP,G,EE)			
△ CNJ4	1-526-794-11	OUTLET, AC (AC OUTLET)(AEP,G,EE)			
Q511	8-729-232-45	TRANSISTOR 2SK1529-Y			
Q512	8-729-232-46	TRANSISTOR 2SJ200-Y			
Q611	8-729-232-45	TRANSISTOR 2SK1529-Y			
Q612	8-729-232-46	TRANSISTOR 2SJ200-Y			
Q702	8-729-209-15	TRANSISTOR 2SD2012			
△ S1	1-554-920-61	SWITCH, PUSH (AC POWER)(1 KEY)(①)			
△ T1	1-431-827-11	TRANSFORMER, POWER (UK,MY,SP,AUS)			
△ T1	1-431-873-11	TRANSFORMER, POWER (AEP,G,EE)			

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Replace only with part number specified.

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

	1-473-656-11	REMOTE COMMANDER (RM-S316)	
	3-864-335-11	MANUAL, INSTRUCTION	
		(ENGLISH,FRENCH,SPANISH,PORTUGUESE)	
	3-864-335-21	MANUAL, INSTRUCTION (AEP,G,EE,MY,SP,AUS)	
		(GERMAN,DUTCH,SWEDISH,ITALIAN)	
	4-981-643-01	COVER,BATTERY (FOR RM-S316)	

HARDWARE LIST

#1	7-682-548-09	SCREW (3X8)
#2	7-621-773-95	SCREW +B 2.6X6
#3	7-685-885-09	SCREW +BVTT 4X16 (S)

