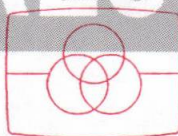


TA-AX250/AX255

SERVICE MANUAL



Free service manuals

Gratis schema's

Digitized by

*AEP Model*www.freesevicemanuals.info *UK Model**E Model*

TA-AX250

AEP Model

TA-AX255



Photo: TA-AX255

TA-AX255 is an integrated stereo amplifier in SEN-220.

SPECIFICATIONS

Amplifier section

Continuous RMS power output
(both channels driven)simultaneously) At 1 kHz, 5% THD
40 + 40 watts (8 ohms)At 1 kHz, 0.08% THD
35 + 35 watts (8 ohms)At 40 kHz – 20 kHz, 0.08% THD
30 + 30 watts (8 ohms)Peak music power output (TA-AX250: E Model)
300 W (8 ohms, 5% THD)Music power output (TA-AX250: E Model)
150 W (8 ohms, 5% THD)Power bandwidth (IHF)
20 Hz – 30 kHz (8 ohms, 25 W)Dynamic headroom
1.2 dB ('78 IHF)Harmonic distortion
Less than 0.08% at rated output distortionIntermodulation Less than 0.08% at rated output
(IF) (60 Hz: 7 kHz = 4:1)Frequency response
PHONO: RIAA equalization curve ± 0.5 dB
TUNER/CD/VIDEO/TAPETA-AX250: 16 Hz – 70 kHz ± 3.0 dBTA-AX255: 15 Hz – 70 kHz ± 3.0 dBResidual noise
Less than 100 μ V (8 ohms, network A)Damping factor
36 (8 ohms, 1 kHz)

Input

	Sensitivity	Impedance
PHONO	2.0 mV	50 kohms
TUNER CD VIDEO TAPE	150 mV	50 kohms

Outputs

RECOUT

Voltage 150 mV

Impedance 470 ohms

SPEAKER

Accepts speakers of 8 – 16 ohms

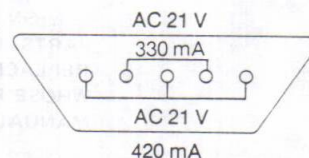
HEADPHONES

Accepts low and high impedance
headphones

TA-AX255:

CNJ904

SYSTEM CONTROL



— Continued on Page 2 —

INTEGRATED STEREO AMPLIFIER
SONY®



MICROFILM

AUD

Graphic equalizer 100 Hz: ± 10 dB
 400 Hz: ± 10 dB
 1 kHz: ± 10 dB
 4 kHz: ± 10 dB
 12 kHz: ± 7 dB

General

System

Preamplifier section: low-noise IC NF type
 equalizer amplifier
 Power amplifier section: quasi-complementary
 SEPP OTL OCL power amplifier with all
 stages direct coupled

Power requirements

AEP, G-AEP MODEL: 220 V ac (or 240 V ac
 adjustable by authorized Sony personnel),
 50/60 Hz
 UK MODEL: 240 V ac (or 220 V ac
 adjustable by authorized Sony personnel),
 50 Hz
 E MODEL: 120, 220 or 240 V ac adjustable,
 50/60 Hz

Power consumption

TA-AX250: AEP, E: 75 W
 TA-AX250: UK: 175 W
 TA-AX255: AEP: 95 W

AC outlets

AEP, UK Model: 3 switched total 100 watts
 max.
 E Model: 2 switched total 100 watts max.
 1 unswitched 100 watts max.

Dimensions

TA-AX250: AEP:
 Approx. 430 x 105 x 255 mm
 (17 $\frac{1}{8}$ x 4 $\frac{1}{4}$ x 10 $\frac{1}{8}$ inches)
 TA-AX250: UK, E/AX255:
 Approx. 430 x 105 x 250 mm
 (17 $\frac{1}{8}$ x 4 $\frac{1}{4}$ x 9 $\frac{7}{8}$ inches)

Weight

TA-AX250: Approx. 4.5 kg (9 lbs 15 oz)
 net
 TA-AX255: Approx. 5.0 kg (11 lb) net

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND 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.

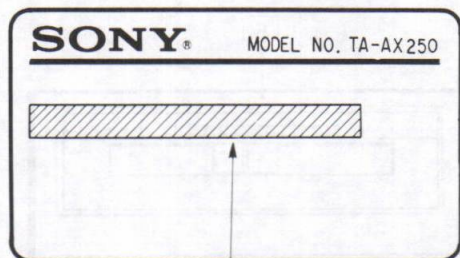
MODEL IDENTIFICATION

— Specification Label —

TA-AX250

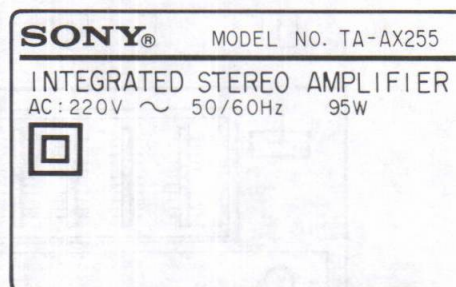
TA-AX255

TYPE 1:

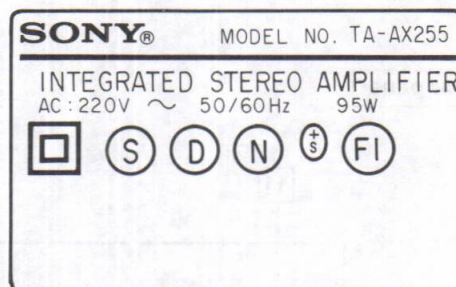


TA-AX250:

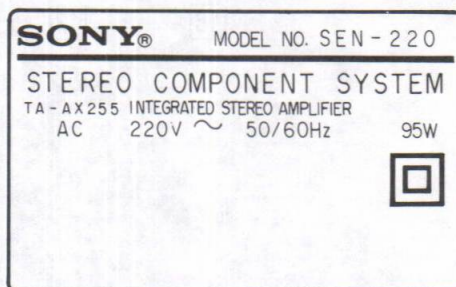
AEP model:	AC 220V ~ 50/60Hz	75W
UK model:	AC 240V ~ 50/60Hz	175W
E model:	AC 120/220/240V ~ 50/60Hz	75W



TYPE 2:



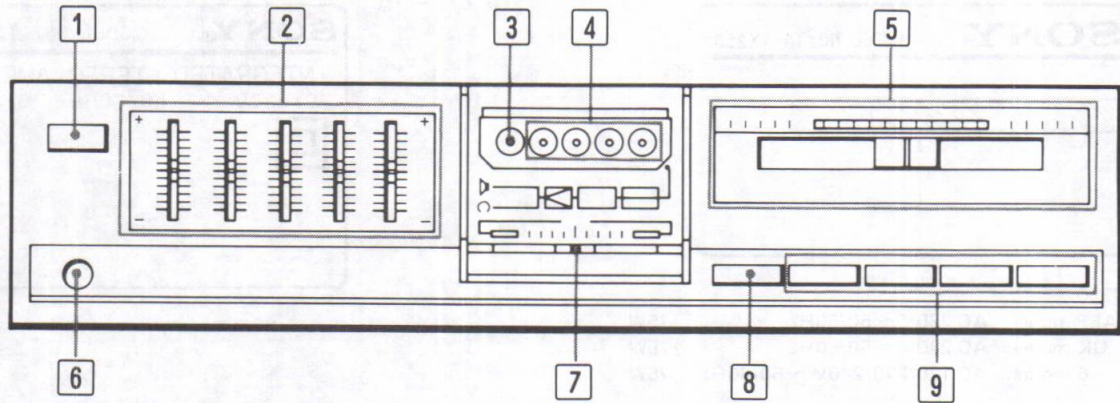
G-AEP model:



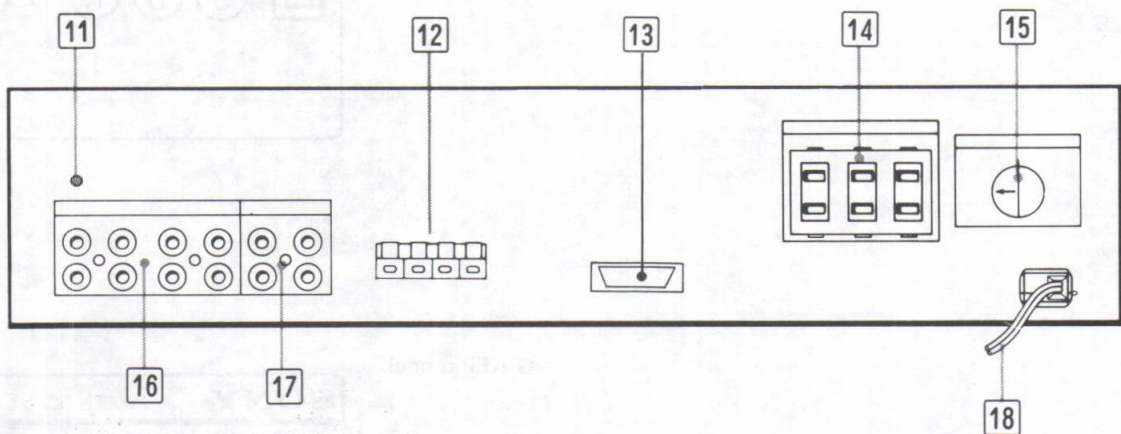
SECTION 1 OUTLINE

1-1. FUNCTION OF CONTROLS

Front panel



Rear panel



FRONT PANEL**1 POWER switch**

Turns the operating power on or off.

2 GRAPHIC EQUALIZER controls

To equalize the listening sound, slide each control upwards to increase the level of the frequency band, and downwards to decrease the level.

100 Hz: Use to boost or cut the bass.

400 Hz: Use to adjust the middle frequency range.

1 kHz: Use to provide more presence of vocals.

4 kHz: Use to adjust the brightness of sound.

12 kHz: This control effects general treble. Slide downwards to reduce high frequency noise, such as tape hiss.

To record or listen to the sound with the original tone quality, set all the controls at their center positions.

3 TAPE indicator

Lights up when the MONITOR TAPE button is depressed.

4 FUNCTION display

Shows the audio input source in use when the appropriate button is depressed.

5 VOLUME control and indicator

Adjusts the sound level.

6 HEADPHONES jack (stereo phone jack)

The headphone volume can be adjusted with the VOLUME control.
sound from the speaker will be cut off when a plug is inserted to this jack.

7 BALANCE control

Adjusts the balance of the left and right channel output level.

8 MONITOR TAPE button

For listening to a taped program.

9 FUNCTION buttons

VIDEO: For listening to or recording the sound from the video equipment or an auxiliary programs (connected to VIDEO inputs).

CD: For listening to or recording the compact disc programs.

TUNER: For listening to or recording radio programs.

PHONO: For listening to or recording disc programs.

REAR PANEL**11 Ground terminal (⏏)**

To prevent hum, be sure to connect the ground wire of the turntable system.

12 SPEAKER connector**13 SYSTEM CONTROL connector (TA-AX255 only)****14 AC OUTLETS**

These are used to supply power to other audio components whose power consumption is less than the wattage indicated on the AC outlet.

15 Voltage selector (TA-AX250 E model only)**16 INPUT jacks (phono jacks)**

PHONO: Accept the output of a turntable system.

TUNER: Accept the output of a tuner.

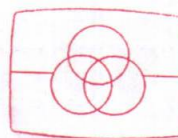
CD: Accept the output of a CD player.

VIDEO: Accept the audio outputs of a video recorder.

17 TAPE RECORDER jacks (phono jacks)

REC OUT: For recording a program source connected to the amplifier.

TAPE: For monitoring a taped program.

18 Power cord

Free service manuals

Gratis schema's

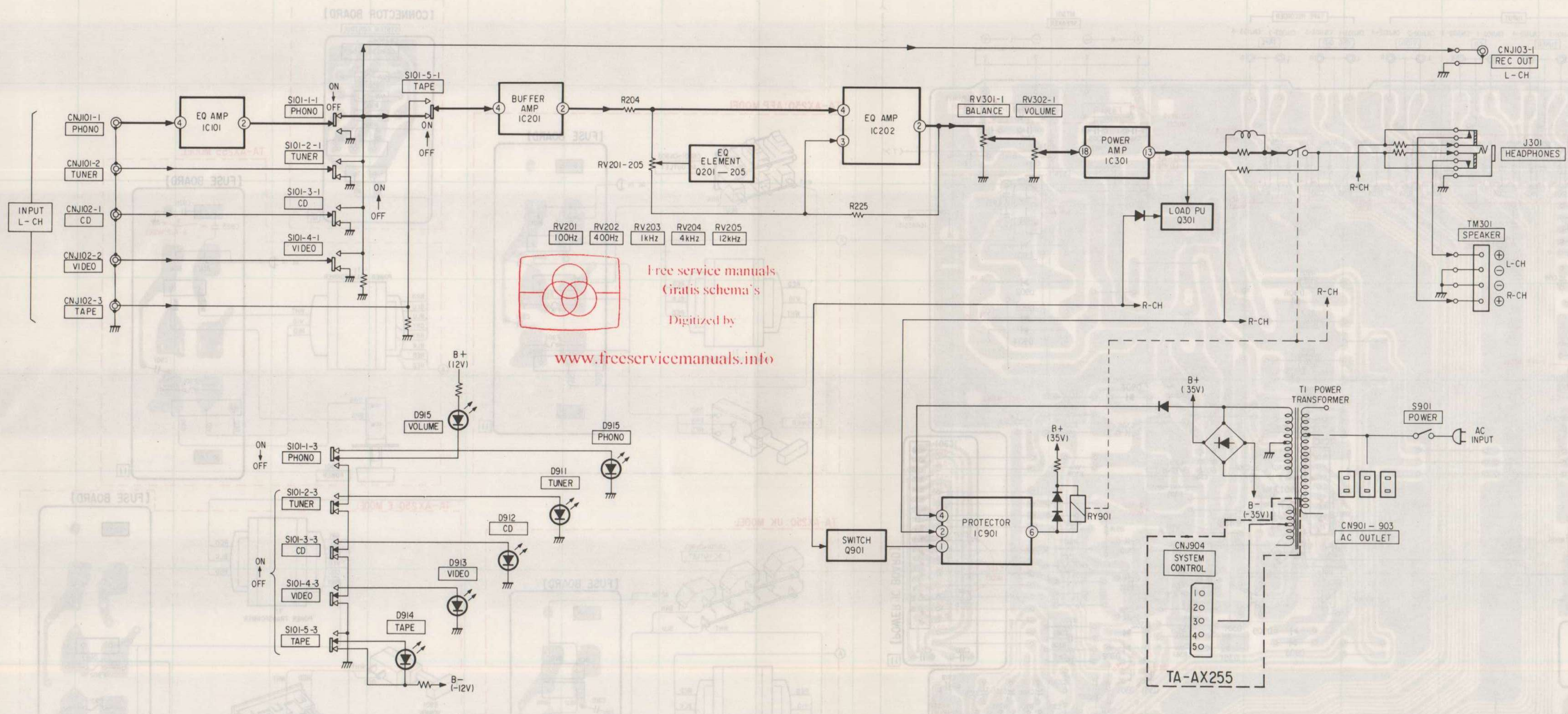
Digitized by

www.freeservicemanuals.info

MEMO



1-2. BLOCK DIAGRAM



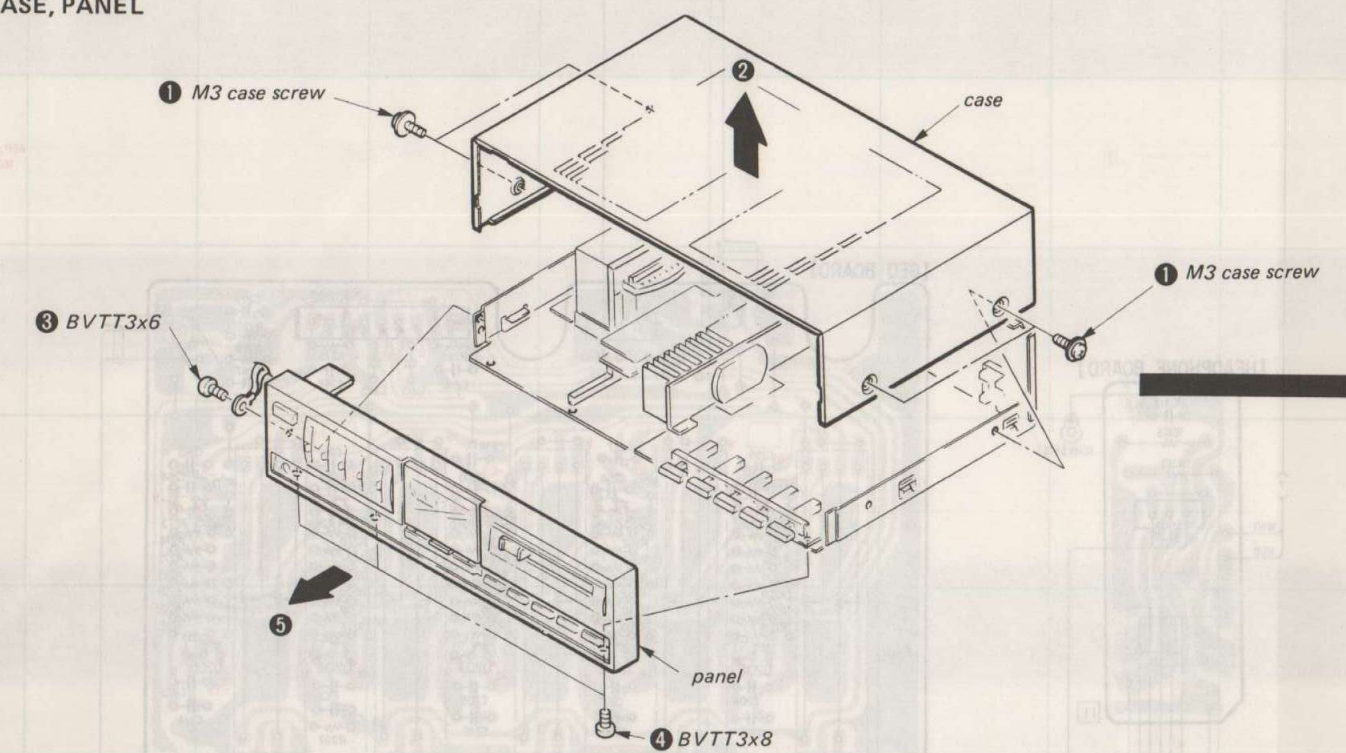
Free service manuals
Gratis schema's
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www.freeservicemanuals.info

R-CH Same as L-CH.

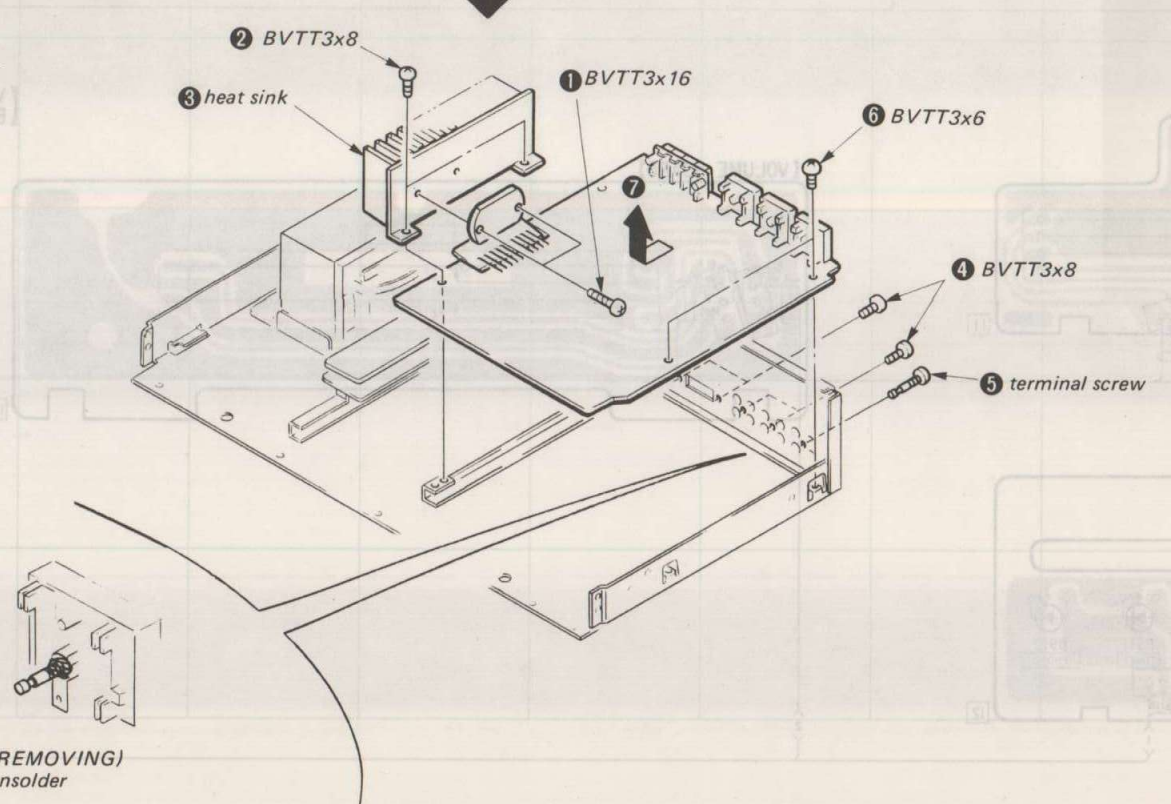
SECTION 2
DISASSEMBLY

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

CASE, PANEL

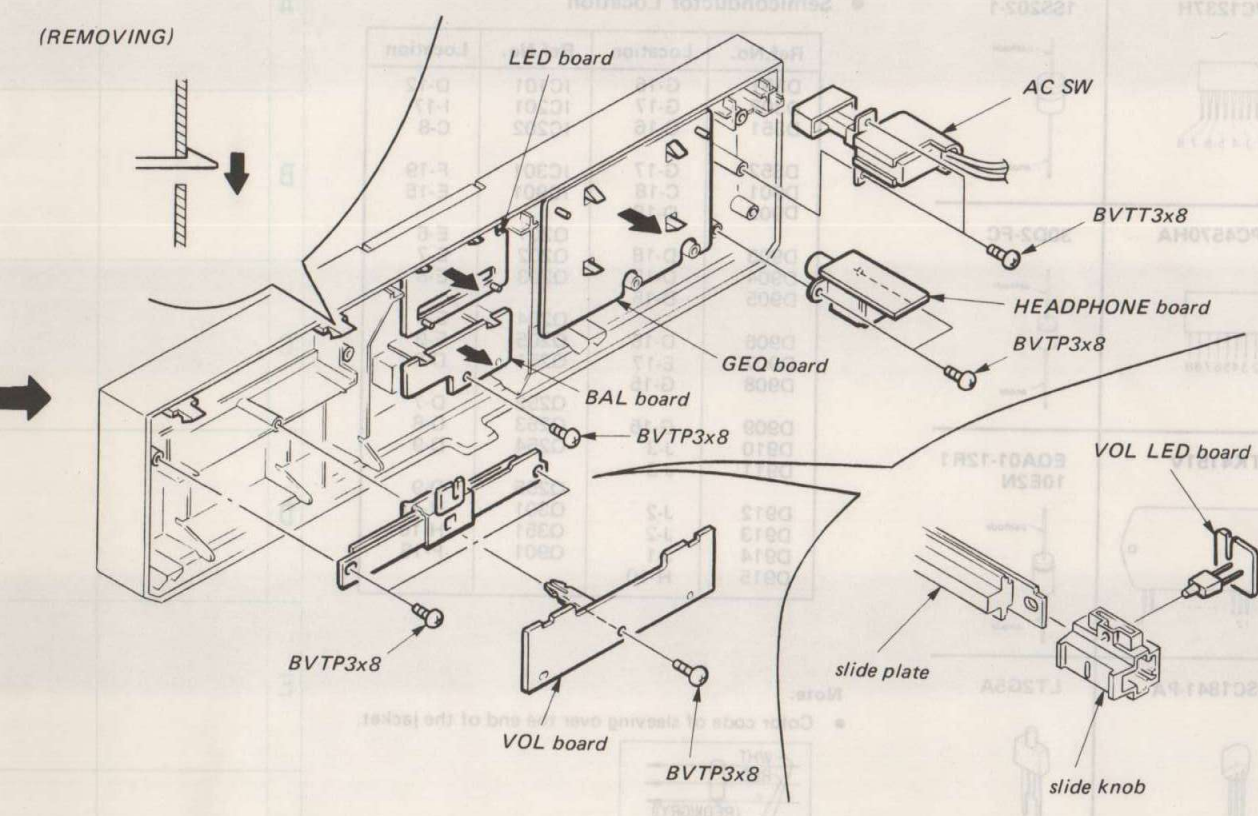


HEAT SINK, MAIN BOARD



(REMOVING)
unsolder

HEADPHONE, GEO, LED, BAL, VOL, VOL LED BOARD AND AC SW

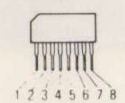


SECTION 3 DIAGRAMS

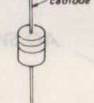
3-1. MOUNTING DIAGRAM

● Semiconductor Lead Layouts

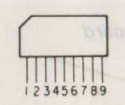
μPC1237H



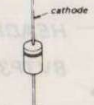
1SS202-1



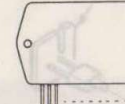
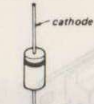
μPC4570HA



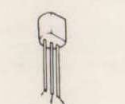
30D2-FC



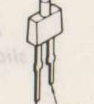
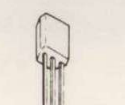
STK4151V

EQA01-12R1
10E2N

2SC1841-PA



LT2G5A

2SC2603-F
DTA124ES

SEL2510W-C

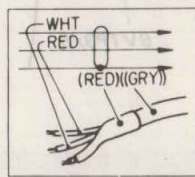


● Semiconductor Location

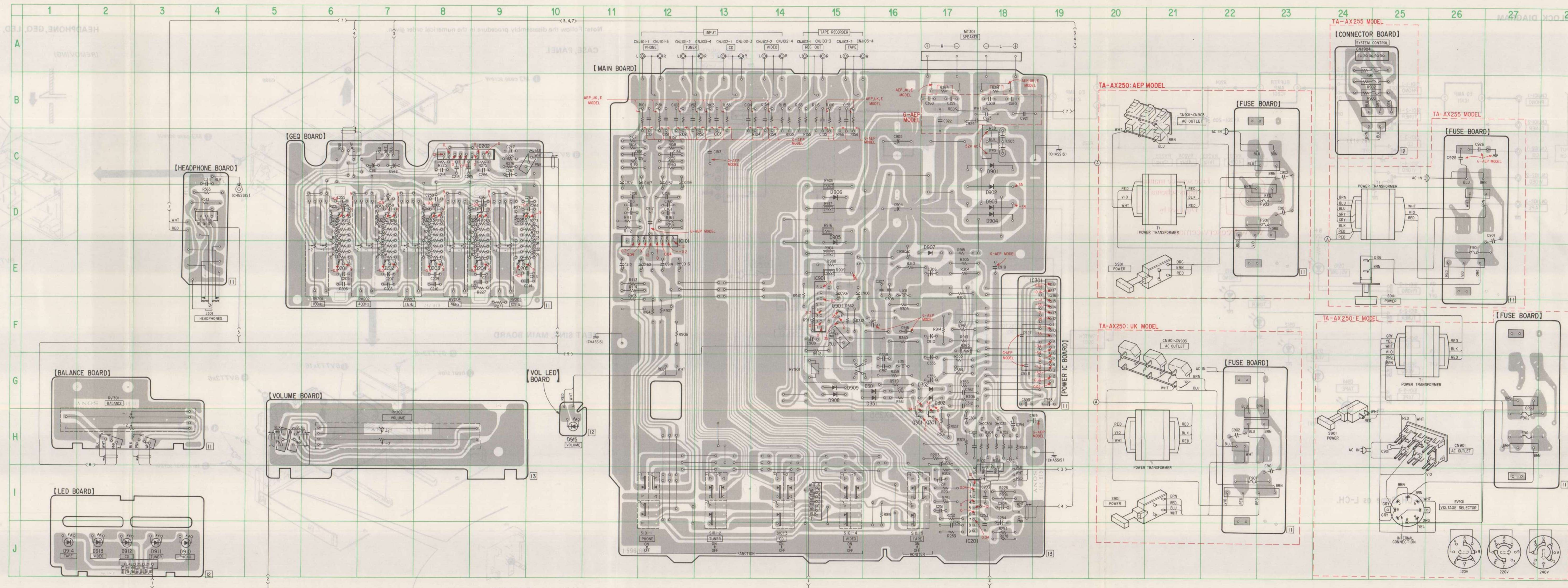
Ref.No.	Location	Ref.No.	Location
D301	G-16	IC101	D-12
D302	G-17	IC201	I-17
D351	G-16	IC202	C-8
D352	G-17	IC301	F-19
D901	C-18	IC901	E-15
D902	D-18		
D903	D-18	Q201	E-6
D904	D-18	Q202	E-7
D905	D-15	Q203	E-8
D906	D-15	Q204	E-9
D907	E-17	Q205	E-9
D908	G-15	Q251	D-6
D909	G-15	Q252	D-7
D910	J-3	Q253	D-8
D911	J-3	Q254	D-9
D912	J-2	Q255	D-9
D913	J-2	Q301	H-17
D914	J-1	Q351	H-16
D915	H-10	Q901	F-15

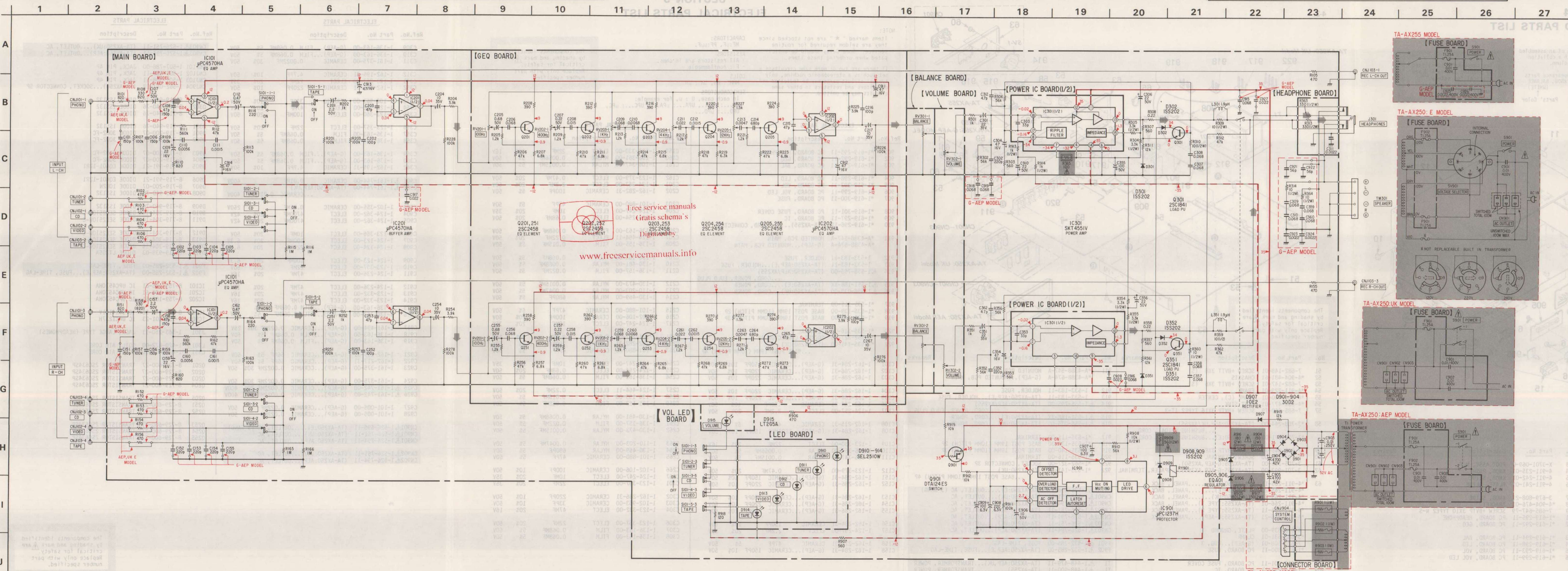
Note:

- Color code of sleeving over the end of the jacket.



- : parts extracted from the component side.





Note:

- All capacitors are in μF unless otherwise noted. pF : μF 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.
- : signal path.
- : nonflammable resistor.
- : fusible resistor.
- : B+ bus.
- : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 $\text{k}\Omega/\text{V}$).
- no mark: PHONO
- Switch

Ref. No.	Switch	Position
S301-1	PHONO	ON
S301-2	TUNER	OFF
S301-3	CD	OFF
S301-4	VIDEO	OFF
S301-5	TAPE	OFF
S901	POWER	OFF

Note: The components identified by shading and are critical for safety. Replace only with part number specified.

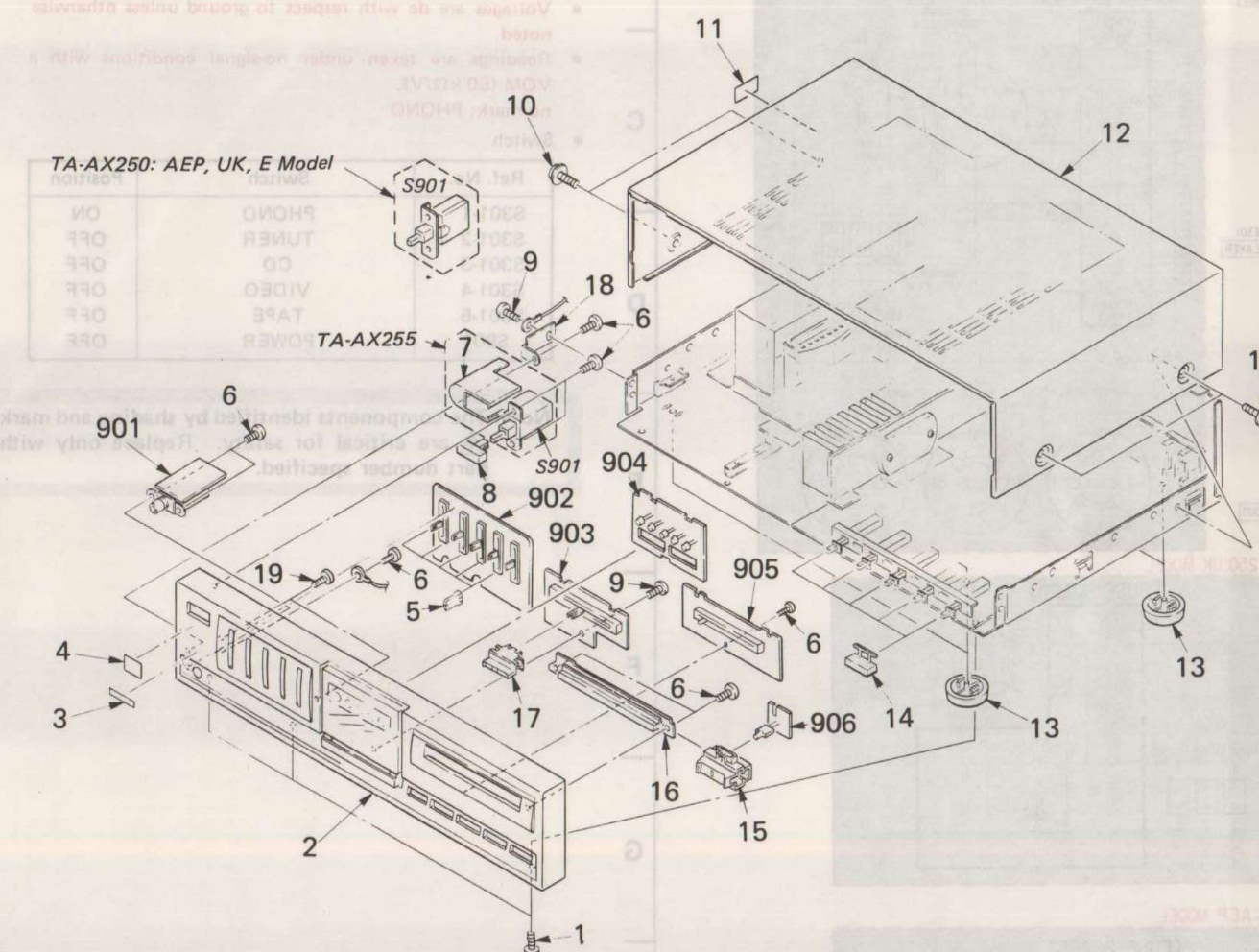
SECTION 4 EXPLODED VIEWS AND PARTS LIST

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color Indication of Appearance Parts (Example: (RED)..... KNOB, BALANCE (WHITE)..... Cabinet's Color Parts' Color)

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

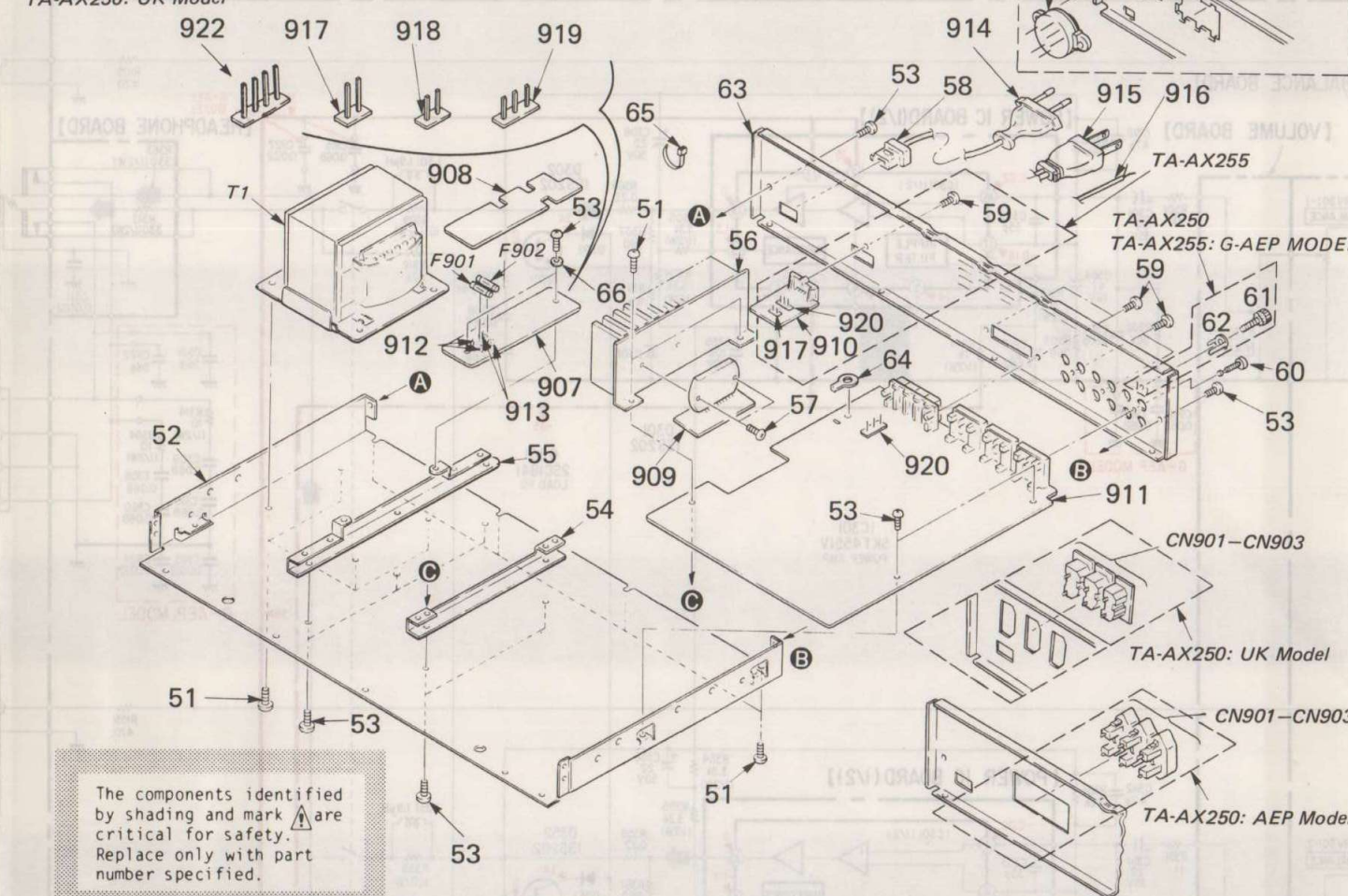
4-1.



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	7-682-148-01	SCREW +BVTT 3X8 (S)		13	X-3701-069-0	FOOT ASSY, M.F	
2	X-4904-473-1	(TA-AX250)...PANEL ASSY	19	14	4-911-235-01	KNOB, PUSH	
	X-4904-474-1	(TA-AX255)...PANEL ASSY	19	15	4-911-242-01	KNOB, SLIDE	
				16	4-911-241-01	PLATE, SLIDE	
3	3-701-690-01	(UK)...LABEL (MADE IN JAPAN)		17	3-679-808-21	KNOB, SLIDE	
4	3-703-713-41	(TA-AX250)...STICKER, SONY SYMBOL (10)		18	*4-904-476-01	BRACKET	
5	4-911-230-11	KNOB, SLIDE		19	7-685-647-79	SCREW +BVTP 3X10 TYPE 2 N-S	
6	7-685-646-79	SCREW +BVTP 3X8 TYPE 2 N-S		901	*1-619-295-11	PC BOARD, HEADPHONE	
7	3-575-524-00	(TA-AX255)...COVER, POWER SWITCH		902	*1-619-292-11	PC BOARD, GEQ	
8	3-679-808-21	KNOB, SLIDE					
9	7-682-147-01	SCREW +BVTT 3X6 (S)		903	*1-619-294-11	PC BOARD, BAL	
10	4-886-821-01	SCREW, M3 CASE		904	*1-619-298-11	PC BOARD, LED	
11	3-703-079-21	(UK)...LABEL, CAUTION (BACK)		905	*1-619-293-11	PC BOARD, VOL	
12	3-318-998-51	CASE		906	*1-619-299-11	PC BOARD, VOL LED	

4-2.

TA-AX250: UK Model



The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	7-682-148-01	SCREW +BVTT 3X8 (S)		911	*A-4388-547-A	MOUNTED PCB, MAIN	
52	*4-904-481-61	CHASSIS			*A-4388-674-A	(G-AEP)...MOUNTED PCB, MAIN	
53	7-682-147-01	SCREW +BVTT 3X6 (S)		912	1-533-183-11	HOLDER, FUSE	
54	*4-911-229-01	FRAME		913	1-533-183-11	(TA-AX250:AEP,E)...HOLDER, FUSE	
55	*4-904-480-01	FRAME (C), CENTER		914	*1-555-795-00	(TA-AX250:AEP/AX255)...CORD, POWER, EULO PLUG	
56	*4-904-477-01	HEAT SINK		915	*1-551-188-XX	(TA-AX250:E)...CORD, POWER	
57	7-685-650-79	SCREW +BVTP 3X16 TYPE 2 IT-3		916	*1-556-035-00	(TA-AX250:UK)...CORD, POWER	
58	*3-703-244-00	(TA-AX250:AEP,UK/AX255)...BUSHING (2104), CORD					
	*3-703-571-00	(TA-AX250:E)...BUSHING (4516), CORD		917	*1-535-115-00	TERMINAL	
59	7-685-646-79	SCREW +BVTP 3X8 TYPE 2 N-S		918	*1-535-139-00	BASE POST 19MM (10MM PITCH) 2P	
60	3-703-473-00	SCREW, TERMINAL		919	*1-535-140-00	BASE POST 19MM (10MM PITCH) 3P	
61	3-705-165-00	(TA-AX255:G-AEP,AX250)...SCREW		920	*1-535-116-00	TERMINAL	
62	3-701-993-00	(TA-AX255:G-AEP,AX250)...SPACER, TERMINAL		921	*1-562-327-00	SOCKET, CONNECTOR 3P	
				922	*1-535-141-00	(TA-AX250:UK)...BASE POST 19MM (10MM PITCH) 4P	
63	*4-911-265-11	(TA-AX250:AEP)...PANEL, BACK					
	*4-911-265-21	(TA-AX250:E)...PANEL, BACK		CN901	*1-526-696-11	(TA-AX250:E)...OUTLET, AC (3 GANG)	
	*4-911-265-31	(TA-AX250:UK)...OUTLET, AC		CN901	*1-526-751-11	(TA-AX250:UK)...OUTLET, AC	
	*4-911-266-01	(TA-AX255:TYPE 1)...PANEL, BACK		CN901	*1-526-794-11	(TA-AX250:AEP)...OUTLET, AC	
	*4-911-266-11	(TA-AX255:TYPE 2)...PANEL, BACK		CN902	*1-526-751-11	(TA-AX250:UK)...OUTLET, AC	
	*4-911-266-21	(TA-AX255:G-AEP)...PANEL, BACK		CN902	*1-526-794-11	(TA-AX250:AEP)...OUTLET, AC	
64	4-870-539-00	PLATE, GROUND					
65	*3-683-631-01	CLAMP		F901	*1-532-285-00	FUSE, TIME-LAG	
66	7-623-508-01	(G-AEP)...LUG, 3		F902	*1-532-285-00	(TA-AX250:AEP,E)...FUSE, TIME-LAG	
907	*1-619-300-11	PC BOARD, FUSE					
908	*1-619-301-11	PC BOARD, FUSE COVER		T1	*1-448-479-11	(TA-AX250:AEP,UK)...TRANSFORMER, POWER	
909	*1-619-297-11	PC BOARD, IC			*1-448-900-11	(TA-AX255)...TRANSFORMER, POWER	
910	*1-619-296-11	(TA-AX255)...PC BOARD, CONNECTOR		T1	*1-448-968-11	(TA-AX250:E)...TRANSFORMER, POWER	

SECTION 5 ELECTRICAL PARTS LIST

NOTE:

- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF:μF, PF:μF.

RESISTORS:

All resistors are in ohms.

F: nonflammable

COILS:

MMH: mH, UH: μH

SEMICONDUCTORS:

In each case, U: V, for example:

UA...: μA..., UPA...: μPA..., UPC...: μPC,

UPD...: μPD...

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	*1-619-295-11	PC BOARD, HEADPHONE
902	*1-619-292-11	PC BOARD, GEQ
903	*1-619-294-11	PC BOARD, BAL
904	*1-619-298-11	PC BOARD, LED
905	*1-619-293-11	PC BOARD, VOL
906	*1-619-299-11	PC BOARD, VOL LED
907	*1-619-300-11	PC BOARD, FUSE
908	*1-619-301-11	PC BOARD, FUSE COVER
909	*1-619-297-11	PC BOARD, IC
910	*1-619-296-11	(TA-AX255)...PC BOARD, CONNECTOR
911	*A-4388-547-A	MOUNTED PCB, MAIN
	*A-4388-674-A	(G-AEP)...MOUNTED PCB, MAIN
912	1-533-183-11	HOLDER, FUSE
913	1-533-183-11	(TA-AX250:AEP,E)...HOLDER, FUSE
914	*1-555-795-00	(TA-AX250:AEP/AX255)...CORD, POWER, EULO PLUG
915	*1-551-188-XX	(TA-AX250:E)...CORD, POWER
916	*1-556-035-00	(TA-AX250:UK)...CORD, POWER
917	*1-535-115-00	TERMINAL
918	*1-535-139-00	BASE POST 19MM (10MM PITCH) 2P
919	*1-535-140-00	BASE POST 19MM (10MM PITCH) 3P
920	*1-535-116-00	TERMINAL
921	*1-562-327-00	SOCKET, CONNECTOR 3P
922	*1-535-141-00	(TA-AX250:UK)...BASE POST 19MM (10MM PITCH) 4P

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C159	1-123-330-00	ELECT 22MF
C160	1-106-361-00	MYLAR 0.0056MF
C161	1-106-347-00	MYLAR 0.0015MF
C162	1-123-379-00	ELECT 0.47MF
C201	1-124-257-00	ELECT 2.2MF
C202	1-162-282-31	CERAMIC 100PF
C203	1-101-880-00	CERAMIC 47PF
C204	1-124-247-00	ELECT 10MF
C205	1-124-254-00	ELECT 0.68MF
C206	1-136-163-00	FILM 0.068MF
C207	1-124-464-11	ELECT 0.22MF
C208	1-136-155-00	FILM 0.015MF
C209	1-136-163-00	FILM 0.068MF
C210	1-130-481-00	MYLAR 0.0068MF
C211	1-136-157-00	FILM 0.022MF
C212	1-130-473-00	MYLAR 0.0015MF
C213	1-110-203-00	MYLAR 0.0047MF
C214	1-130-469-00	MYLAR 680PF
C215	1-101-880-00	CERAMIC 47PF
C216	1-102-106-00	CERAMIC 100PF
C217	1-124-247-00	ELECT 10MF
C251	1-124-257-00	ELECT 2.2MF
C252	1-162-282-31	CERAMIC 100PF
C253	1-101-880-00	CERAMIC 47PF
C254	1-124-247-00	ELECT 10MF
C255	1-124-254-00	ELECT 0.68MF
C256	1-136-163-00	FILM 0.068MF
C257	1-124-464-11	ELECT 0.22MF
C258	1-136-155-00	FILM 0.015MF
C259	1-136-163-00	FILM 0.068MF
C260	1-130-481-00	MYLAR 0.0068MF
C261	1-136-157-00	FILM 0.022MF
C262	1-130-473-00	MYLAR 0.0015MF
C263	1-110-203-00	MYLAR 0.0047MF
C264	1-130-469-00	MYLAR 680PF
C265	1-101-880-00	CERAMIC 47PF
C266	1-102-106-00	CERAMIC 100PF
C267	1-124-247-00	ELECT 10MF
C301	1-123-357-00	ELECT 22MF
C302	1-162-286-31	CERAMIC 220PF
C303	1-102-963-00	CERAMIC 33PF
C304	1-123-332-00	ELECT 47MF
C306	1-123-357-00	ELECT 22MF
C307	1-136-163-00	FILM 0.068MF
C308	1-136-163-00	FILM 0.068MF

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C309	1-136-163-00	(G-AEP)...FILM 0.068MF
C310	1-136-163-00	(G-AEP)...FILM 0.068MF
C311	1-161-375-00	CERAMIC 0.0022MF
C312	1-162-195-31	CERAMIC 4.7PF
C351	1-123-357-00	ELECT 22MF
C352	1-162-286-31	CERAMIC 220PF
C353	1-102-963-00	CERAMIC 33PF
C354	1-123-332-00	ELECT 47MF
C355	1-123-360-00	ELECT 100MF
C356	1-123-357-00	ELECT 22MF
C357	1-136-163-00	FILM 0.068MF
C358	1-136-163-00	FILM 0.068MF
C359	1-136-163-00	(G-AEP)...FILM 0.068MF
C360	1-136-163-00	(G-AEP)...FILM 0.068MF
C362	1-162-195-31	CERAMIC 4.7PF
C901	*1-161-744-00	CERAMIC 0.01MF
C902	*1-161-744-00	(TA-AX250:AEP,UK)...CERAMIC 0.01MF
C903	1-102-355-00	CERAMIC 0.01MF
C904	1-124-362-00	ELECT 4700MF
C905	1-124-362-00	ELECT 4700MF
C906	1-123-356-00	ELECT 10MF
C907	1-124-123-00	ELECT 100MF
C908	1-124-124-00	ELECT 220MF
C909	1-124-123-00	ELECT 100MF
C910	1-123-357-00	ELECT 22MF
C911	1-124-236-00	ELECT 47MF
C912	1-124-236-00	ELECT 47MF
C913	1-123-332-00	ELECT 47MF
C914	1-123-332-00	ELECT 47MF
C915	1-136-163-00	(G-AEP)...FILM 0.068MF
C916	1-136-163-00	(G-AEP)...FILM 0.068MF
C917	1-161-494-00	(G-AEP)...CERAMIC 0.022MF
C918	1-136-163-00	(G-AEP)...FILM 0.068MF
C919	1-136-163-00	(G-AEP)...FILM 0.068MF
C921	1-162-217-31	(G-AEP)...CERAMIC 56PF
C922	1-162-217-31	(G-AEP)...CERAMIC 56PF
C923	1-161-375-00	(G-AEP)...CERAMIC 0.0022MF
C924	1-161-375-00	(G-AEP)...CERAMIC 0.0022MF
C925	*1-161-742-00	(G-AEP)...CERAMIC 0.0022MF
C926	*1-161-742-00	(G-AEP)...CERAMIC 0.0022MF
C927	1-101-005-00	(G-AEP)...CERAMIC 0.022MF
C928	1-101-005-00	(G-AEP)...CERAMIC 0.022MF
CN901	*1-526-696-11	(TA-AX250:E)...OUTLET, AC (3 GANG)
CN901	*1-526-751-11	(TA-AX250:UK)...OUTLET, AC
CN901	*1-526-794-11	(TA-AX250:AEP)...OUTLET, AC
CN902	*1-526-751-11	(TA-AX250:UK)...OUTLET, AC
CN902	*1-526-794-11	(TA-AX250:AEP)...OUTLET, AC

ELECTRICAL PARTS

Ref.No.	Part No.	Description
CN903	*1-526-751-11	(TA-AX250:UK)...OUTLET, AC
CN903	*1-526-794-11	(TA-AX250:AEP)...OUTLET, AC
CNJ101	1-507-788-00	JACK, PIN 4P
CNJ102	1-507-908-11	JACK, PIN 4P
CNJ103	1-507-908-11	JACK, PIN 4P
CNJ904	1-562-067-12	(TA-AX250)...SOCKET, CONNECTOR 5P
D301	8-719-940-76	DIODE 1SS132
D302	8-719-940-76	DIODE 1SS132
D351	8-719-940-76	DIODE 1SS132
D356	8-719-940-76	DIODE 1SS132
D357	8-719-940-76	DIODE 3002-FC
D358	8-719-940-76	DIODE 3002-FC
D903	8-719-200-07	DIODE 3002-FC
D904	8-719-200-07	DIODE 3002-FC
D905	8-719-991-21	DIODE EQA01-12R1
D906	8-719-991-21	DIODE EQA01-12R1
D907	8-719-200-07	DIODE 10E2N
D908	8-719-940-76	DIODE 1SS132
D909	8-719-940-76	DIODE 1SS132
D910	8-719-304-14	DIODE SEL25TOW-C
D911	8-719-304-14	DIODE SEL25TOW-C
D912	8-719-304-14	DIODE SEL25TOW-C
D913	8-719-304-14	DIODE SEL25TOW-C
D914	8-719-304-14	DIODE SEL25TOW-C
D915	8-719-938-03	DIODE LT2G5A
F901	*1-532-285-00	FUSE, TIME-LAG
F902	*1-532-285-00	(TA-AX250:AEP,E)...FUSE, TIME-LAG
IC101	8-759-106-61	IC UPC4570HA
IC201	8-759-106-61	IC UPC4570HA
IC202	8-759-106-61	IC UPC4570HA
IC301	8-749-941-50	IC STK4151V
IC901	8-759-101-23	IC UPC1237H
J301	*1-563-250-11	JACK, LARGE TYPE (HEADPHONES)
L301	*1-420-872-00	COIL, AIR CORE</

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
Q301	8-729-108-05	TRANSISTOR 2SC1841-PA				
Q351	8-729-108-05	TRANSISTOR 2SC1841-PA				
Q901	8-729-806-16	TRANSISTOR 2SA1346				
R101	1-247-712-11	(G-AEP)...CARBON	820	5%	1/4W	
R102	1-247-708-11	(G-AEP)...CARBON	470	5%	1/4W	
R103	1-247-708-11	(G-AEP)...CARBON	470	5%	1/4W	
R104	1-247-708-11	(G-AEP)...CARBON	470	5%	1/4W	
R105	1-247-708-11	CARBON	470	5%	1/4W	
R106	1-247-708-11	(G-AEP)...CARBON	470	5%	1/4W	
R107	1-249-469-11	CARBON	100K	5%	1/4W	
R108	1-247-706-11	CARBON	330	5%	1/4W	
R108	1-247-712-11	(G-AEP)...CARBON	820	5%	1/4W	
R109	1-249-469-11	CARBON	100K	5%	1/4W	
R110	1-247-712-11	CARBON	820	5%	1/4W	
R111	1-246-539-00	CARBON	560K	5%	1/4W	
R112	1-249-465-11	CARBON	47K	5%	1/4W	
R113	1-249-469-11	CARBON	100K	5%	1/4W	
R114	1-247-704-11	CARBON	220	5%	1/4W	
R115	1-246-545-00	CARBON	1M	5%	1/4W	
R116	1-246-545-00	CARBON	1M	5%	1/4W	
R151	1-247-712-11	(G-AEP)...CARBON	820	5%	1/4W	
R152	1-247-708-11	(G-AEP)...CARBON	470	5%	1/4W	
R153	1-247-708-11	(G-AEP)...CARBON	470	5%	1/4W	
R154	1-247-708-11	(G-AEP)...CARBON	470	5%	1/4W	
R155	1-247-708-11	CARBON	470	5%	1/4W	
R156	1-247-708-11	(G-AEP)...CARBON	470	5%	1/4W	
R157	1-249-469-11	CARBON	100K	5%	1/4W	
R158	1-247-706-11	CARBON	330	5%	1/4W	
R158	1-247-712-11	(G-AEP)...CARBON	820	5%	1/4W	
R159	1-249-469-11	CARBON	100K	5%	1/4W	
R160	1-247-712-11	CARBON	820	5%	1/4W	
R161	1-246-539-00	CARBON	560K	5%	1/4W	
R162	1-249-465-11	CARBON	47K	5%	1/4W	
R163	1-249-469-11	CARBON	100K	5%	1/4W	
R164	1-247-704-11	CARBON	220	5%	1/4W	
R165	1-246-545-00	CARBON	1M	5%	1/4W	
R166	1-246-545-00	CARBON	1M	5%	1/4W	
R201	1-249-469-11	CARBON	100K	5%	1/4W	
R202	1-247-713-11	CARBON	1K	5%	1/4W	
R203	1-249-469-11	CARBON	100K	5%	1/4W	
R204	1-247-720-11	CARBON	3.9K	5%	1/4W	
R205	1-249-418-11	CARBON	1.2K	5%	1/6W	
R206	1-249-437-11	CARBON	47K	5%	1/6W	
R207	1-249-427-11	CARBON	6.8K	5%	1/6W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R208	1-249-412-11	CARBON	390	5%	1/6W	
R209	1-249-418-11	CARBON	1.2K	5%	1/6W	
R210	1-249-437-11	CARBON	47K	5%	1/6W	
R211	1-249-427-11	CARBON	6.8K	5%	1/6W	
R212	1-249-412-11	CARBON	390	5%	1/6W	
R213	1-249-418-11	CARBON	1.2K	5%	1/6W	
R214	1-249-437-11	CARBON	47K	5%	1/6W	
R215	1-249-427-11	CARBON	6.8K	5%	1/6W	
R216	1-249-412-11	CARBON	390	5%	1/6W	
R217	1-249-418-11	CARBON	1.2K	5%	1/6W	
R218	1-249-437-11	CARBON	47K	5%	1/6W	
R219	1-249-427-11	CARBON	6.8K	5%	1/6W	
R220	1-249-412-11	CARBON	390	5%	1/6W	
R221	1-249-418-11	CARBON	1.2K	5%	1/6W	
R222	1-249-437-11	CARBON	47K	5%	1/6W	
R223	1-249-427-11	CARBON	6.8K	5%	1/6W	
R224	1-249-412-11	CARBON	390	5%	1/6W	
R225	1-249-424-11	CARBON	3.9K	5%	1/6W	
R226	1-249-441-11	CARBON	100K	5%	1/6W	
R227	1-249-419-11	CARBON	1.5K	5%	1/6W	
R228	1-249-469-11	CARBON	100K	5%	1/4W	
R251	1-249-469-11	CARBON	100K	5%	1/4W	
R252	1-247-713-11	CARBON	1K	5%	1/4W	
R253	1-249-469-11	CARBON	100K	5%	1/4W	
R254	1-247-720-11	CARBON	3.9K	5%	1/4W	
R255	1-249-418-11	CARBON	1.2K	5%	1/6W	
R256	1-249-437-11	CARBON	47K	5%	1/6W	
R257	1-249-427-11	CARBON	6.8K	5%	1/6W	
R258	1-249-412-11	CARBON	390	5%	1/6W	
R259	1-249-418-11	CARBON	1.2K	5%	1/6W	
R260	1-249-437-11	CARBON	47K	5%	1/6W	
R261	1-249-427-11	CARBON	6.8K	5%	1/6W	
R262	1-249-412-11	CARBON	390	5%	1/6W	
R263	1-249-418-11	CARBON	1.2K	5%	1/6W	
R264	1-249-437-11	CARBON	47K	5%	1/6W	
R265	1-249-427-11	CARBON	6.8K	5%	1/6W	
R266	1-249-412-11	CARBON	390	5%	1/6W	
R267	1-249-418-11	CARBON	1.2K	5%	1/6W	
R268	1-249-437-11	CARBON	47K	5%	1/6W	
R269	1-249-427-11	CARBON	6.8K	5%	1/6W	
R270	1-249-412-11	CARBON	390	5%	1/6W	
R271	1-249-418-11	CARBON	1.2K	5%	1/6W	
R272	1-249-437-11	CARBON	47K	5%	1/6W	
R273	1-249-427-11	CARBON	6.8K	5%	1/6W	
R274	1-249-412-11	CARBON	390	5%	1/6W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R275	1-249-424-11	CARBON	3.9K	5%	1/6W	
R276	1-249-441-11	CARBON	100K	5%	1/6W	
R277	1-249-419-11	CARBON	1.5K	5%	1/6W	
R278	1-249-469-11	CARBON	100K	5%	1/4W	
R301	1-247-713-11	CARBON	1K	5%	1/4W	
R302	1-249-466-11	CARBON	56K	5%	1/4W	
R303	1-247-710-11	CARBON	560	5%	1/4W	
R304	1-247-758-11	CARBON	3.3K	5%	1/2W	
R305	1-247-758-11	CARBON	3.3K	5%	1/2W	
R306	1-249-466-11	CARBON	56K	5%	1/4W	
R307	1-247-710-11	CARBON	560	5%	1/4W	
R308	1-217-151-00	RES, METAL PLATE	0.22			
R309	1-247-727-11	CARBON	10	5%	1/2W	
R310	1-247-727-11	CARBON	10	5%	1/2W	
R311	1-249-459-11	CARBON	12K	5%	1/4W	
R312	1-249-465-11	CARBON	47K	5%	1/4W	
R313	1-247-745-11	CARBON	330	5%	1/2W	
R314	1-247-727-11	(G-AEP)...CARBON	10	5%	1/4W	
R351	1-247-713-11	CARBON	1K	5%	1/4W	
R352	1-249-466-11	CARBON	56K	5%	1/4W	
R353	1-247-710-11	CARBON	560	5%	1/4W	
R354	1-247-758-11	CARBON	3.3K	5%	1/2W	
R355	1-247-758-11	CARBON	3.3K	5%	1/2W	
R356	1-249-466-11	CARBON	56K	5%	1/4W	
R357	1-247-710-11	CARBON	560	5%	1/4W	
R358	1-217-151-00	RES, METAL PLATE	0.22			
R359	1-247-727-11	CARBON	10	5%	1/2W	
R360	1-247-727-11	CARBON	10	5%	1/2W	
R361	1-249-459-11	CARBON	12K	5%	1/4W	
R362	1-249-465-11	CARBON	47K	5%	1/4W	
R363	1-247-745-11	CARBON	330	5%	1/2W	
R364	1-247-727-11	(G-AEP)...CARBON	10	5%	1/4W	
R365	△1-247-700-11	CARBON	100	5%	1/4W	F
R901	△1-217-469-00	(TA-AX255)...FUSE	1	5%	1W	F
R902	△1-217-469-00	(TA-AX255)...FUSE	1	5%	1W	F
R903	△1-217-469-00	(TA-AX255)...FUSE	1	5%	1W	F
R904	△1-206-644-00	METAL OXIDE	150	5%	2W	F
R905	△1-206-646-00	METAL OXIDE	180	5%	2W	F
R906	1-247-708-11	CARBON	470	5%	1/4W	
R907	1-247-710-11	CARBON	560	5%	1/4W	
R908	1-247-764-11	CARBON	10K	5%	1/2W	
R909	△1-216-455-11	METAL OXIDE	560	5%	2W	F
R910	1-249-466-11	CARBON	56K	5%	1/4W	
R911	1-249-469-11	CARBON	100K	5%	1/4W	
R912	1-247-725-11	CARBON	10K	5%	1/4W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R913	1-247-752-11	CARBON	1K	5%	1/2W	
R914	1-247-752-11	CARBON	1K	5%	1/2W	
R915	1-249-459-11	CARBON	12K	5%	1/4W	
R916	△1-206-646-00	METAL OXIDE	180	5%	2W	F
R917	△1-206-644-00	METAL OXIDE	150	5%	2W	F
R918	1-247-701-11	CARBON	120	5%	1/4W	
R919	1-247-725-11	CARBON	10K	5%	1/4W	
RV201	1-237-172-11	RES, VAR, SLIDE	250K/250K			
RV202	1-237-172-11	RES, VAR, SLIDE	250K/250K			
RV203	1-237-172-11	RES, VAR, SLIDE	250K/250K			
RV204	1-237-172-11	RES, VAR, SLIDE	250K/250K			
RV205	1-237-172-11	RES, VAR, SLIDE	250K/250K			
RV301	1-237-203-11	RES, VAR, SLIDE	250K/250K			
RV302	1-237-202-11	RES, VAR, SLIDE	100K/100K			
RY901	1-515-533-11	RELAY				
S101	1-570-626-11	SWITCH, PUSH (5 KEY)				
S901	△1-554-685-41	(TA-AX250)...SWITCH, PUSH (AC POWER)(1 KEY)				
S901	△1-554-920-11	(TA-AX255)...SWITCH, PUSH (AC POWER)(1 KEY)				
SV1	△1-526-596-11	(TA-AX250:E)...SELECTOR, POWER VOLTAGE				
T1	△1-448-479-11	(TA-AX250:AEP,UK)...TRANSFORMER, POWER				
T1	△1-448-900-11	(TA-AX255).....TRANSFORMER, POWER				
T1	△1-448-968-11	(TA-AX250:E).....TRANSFORMER, POWER				
TM301	1-536-705-00	TERMINAL BOARD (SP)				

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-526-565-00	(TA-AX250:E)...AC PLUG ADAPTOR
3-701-630-00	BAG, POLYETHYLENE
3-769-040-11	(TA-AX250).....MANUAL, INSTRUCTION
3-769-040-41	(TA-AX250:AEP)...MANUAL, INSTRUCTION
4-876-352-00	SHEET PROTECTION
4-904-442-01	(TA-AX250)...CUSHION (LEFT), LOWER
4-904-443-01	(TA-AX250)...CUSHION (RIGHT), LOWER
4-904-444-01	(TA-AX250)...CUSHION (LEFT), UPPER
4-904-445-01	(TA-AX250)...CUSHION (RIGHT), UPPER
4-904-465-41	(TA-AX250)...INDIVIDUAL CARTON

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

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