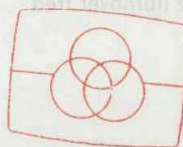


TA-AX360

SERVICE MANUAL

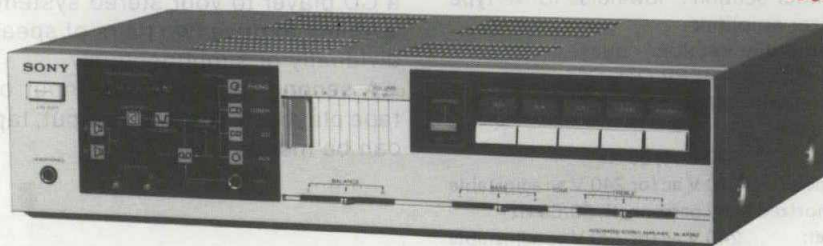


US Model
AEP Model
UK Model

Free service manuals
Gratis schema's

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SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

(US model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm loads, both channels driven, from 20 – 20,000 Hz; read 50 watts per channel minimum RMS power, with no more than 0.05% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Continuous RMS power output

(AEP, UK, model) At 1 kHz, 0.05% THD

48 + 48 watts (8 ohms)

At 40 Hz – 20 kHz, 0.05% THD

47 + 47 watts (8 ohms)

According to DIN 45500

47 + 47 watts

Power bandwidth (IHF)

5 Hz – 40 kHz

Dynamic headroom

1.2 dB ('78 IHF)

Harmonic distortion

Less than 0.05% at rated output

Intermodulation (IM) distortion

(60 Hz : 7 kHz = 4 : 1) Less than 0.05% at rated output

Frequency response

PHONO : RIAA equalization curve ± 0.5 dB

TUNER

CD

AUX

TAPE

15 Hz – 70 kHz $_{-3}^{+0}$ dB

Residual noise Less than 100 μ V (8 ohms, network A)

Damping factor 36 (8 ohms, 1 kHz)

Inputs

	Sensitivity	Impedance	Maximum input capability (1 kHz)	S/N (weighting network, input level)
PHONO	2.0 mV	50 kilohms	120 mV	73 dB 76 dB* (A, 2.0 mV)
TUNER CD AUX TAPE 1, 2	150 mV	50 kilohms	—	100 dB 85 dB* (A, 150 mV)

* '78 IHF

Outputs

REC OUT

Voltage 150 mV

Impedance 4.7 kilohms

SPEAKER

Accepts speakers of


8 – 16 ohms.

HEADPHONES

Accepts low and high impedance headphones.

— Continued on Page 2 —

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.

INTEGRATED STEREO AMPLIFIER
SONY®



Tone controls

BASS
 ± 8 dB at 100 Hz (turnover freq. 300 Hz)

TREBLE
 ± 7 dB at 10 kHz (turnover freq. 3 kHz)

Loudness (Att. 30 dB)
 6 dB at 100 Hz

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

US model: 120 V ac, 60 Hz
 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

Power consumption

US, AEP model: 105 watts
 UK model: 90 watts

AC outlets

AEP, UK model: 3 switched, total 100 watts max.
 US model: 2 switched, total 100 watts max.
 1 unswitched, 100 watts max.

Dimensions

Approx. 430 × 105 × 280 mm (w/h/d)
 (17 $\frac{1}{8}$ × 4 $\frac{1}{4}$ × 11 $\frac{1}{8}$ inches)

Weight

including projecting parts and controls
 Approx. 6 kg (13 lbs 4 oz) net
 Approx. 6.8 kg (15 lbs) in shipping carton

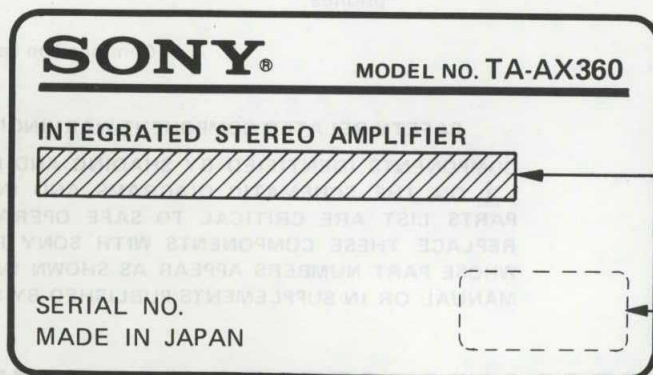
FEATURES

The TA-AX360 integrated stereo amplifier provides dynamic sound. The block diagram of the amplifier is shown on its attractive front display and enables the signal flow to be read at a single glance.

- Power output of 47 + 47 watts (40 Hz - 20 kHz, 0.05% THD).
- Independent CD (Compact Disc) inputs for connecting a CD player to your stereo system.
- Ability to drive two pairs of speaker systems either individually or simultaneously.
- A second tape recorder input on the front panel for tape playback. Using this input, tape-to-tape duplication can be made.

MODEL IDENTIFICATION

— Specification Label —



US model: AC: 120 V 60 Hz 105W
 AEP, G-AEP model: AC: 220 V ~ 50/60 Hz 105W
 UK model: AC: 240 V ~ 50/60 Hz 90W

G-AEP model:

FTZ

SECTION 1
OUTLINE

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

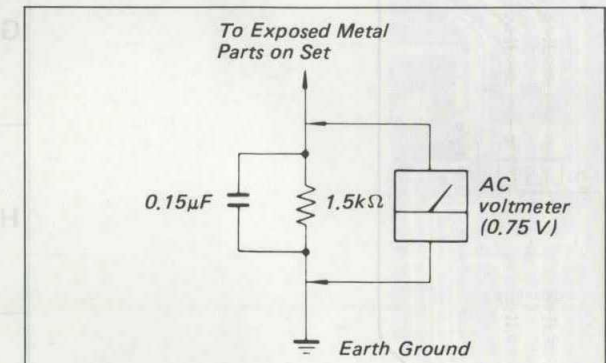
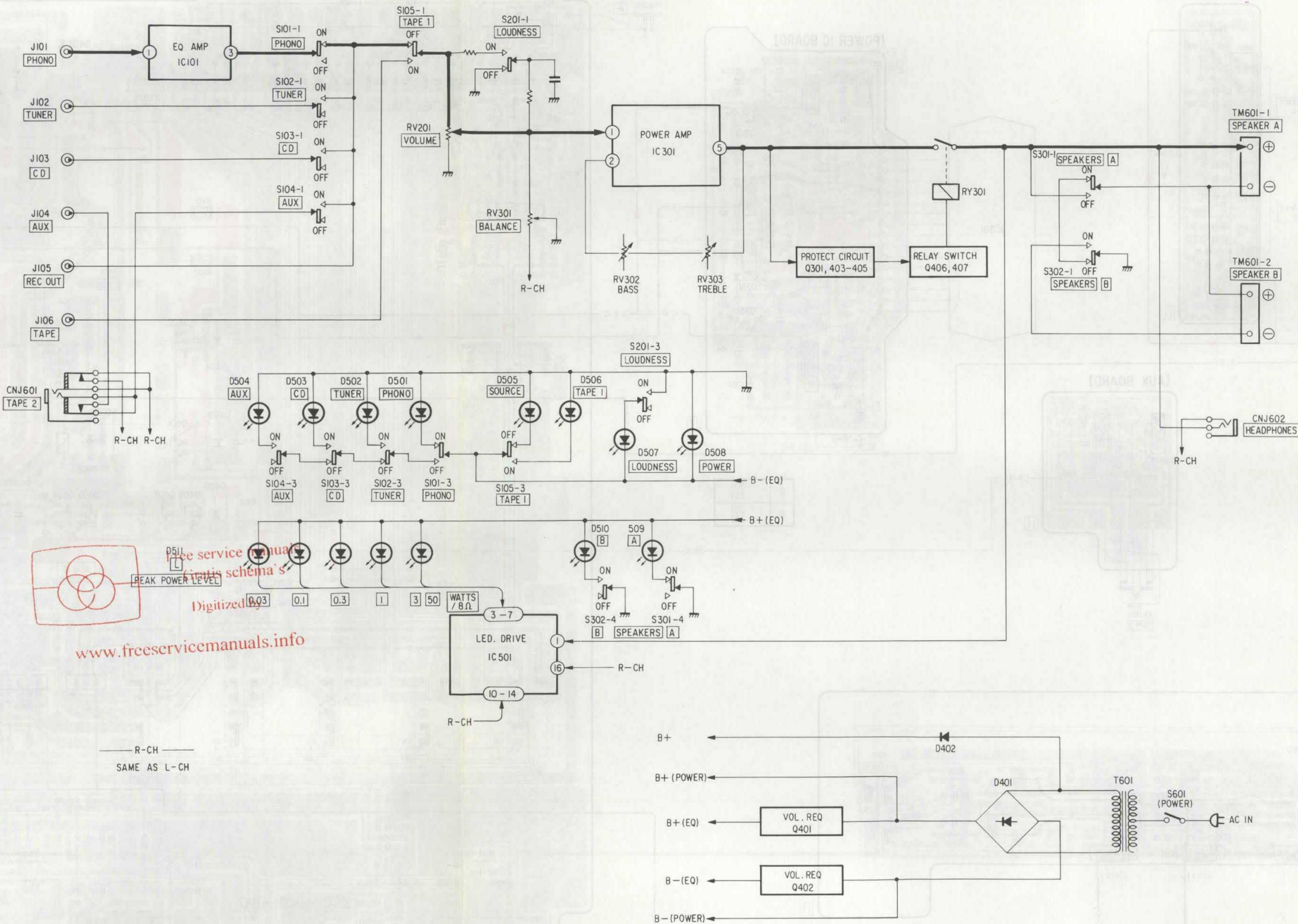


Fig. A. Using an AC voltmeter to check AC leakage.

1-1. BLOCK DIAGRAM

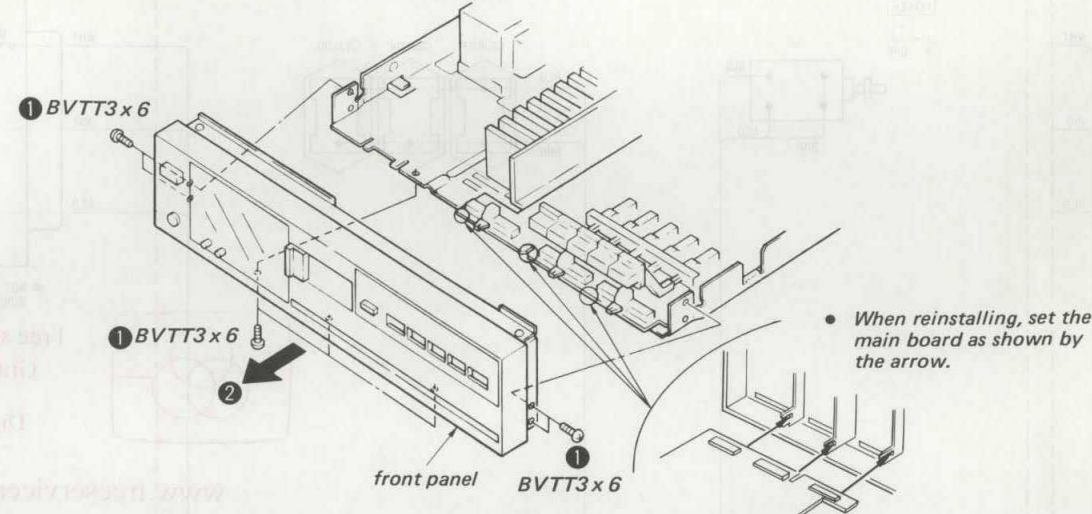


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SECTION 2
DISASSEMBLY

• Follow the disassembly procedure in the numerical order given.

FRONT PANEL



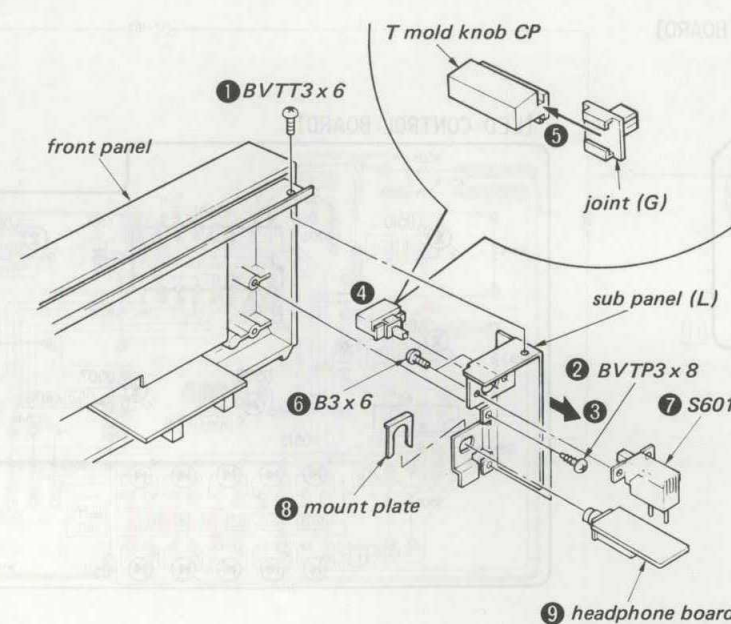
TOP COVER

Remove the four top cover securing screws at both side.

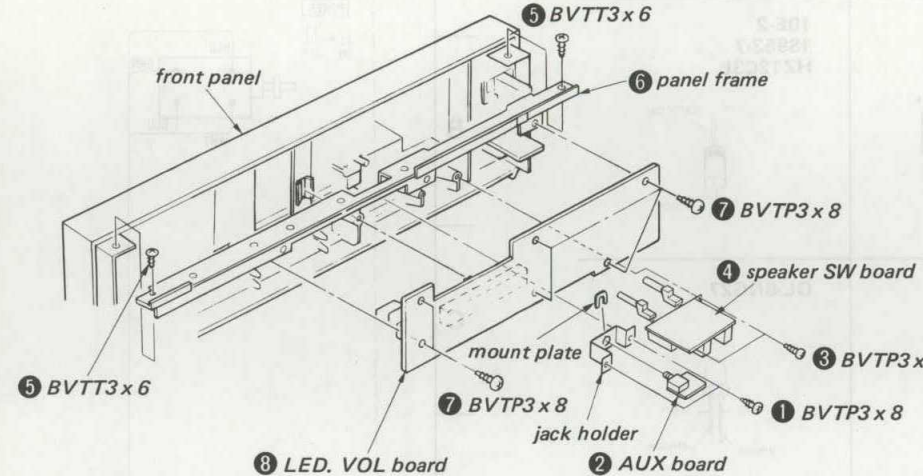
BOTTOM PLATE

Remove the bottom plate by removing four screws.

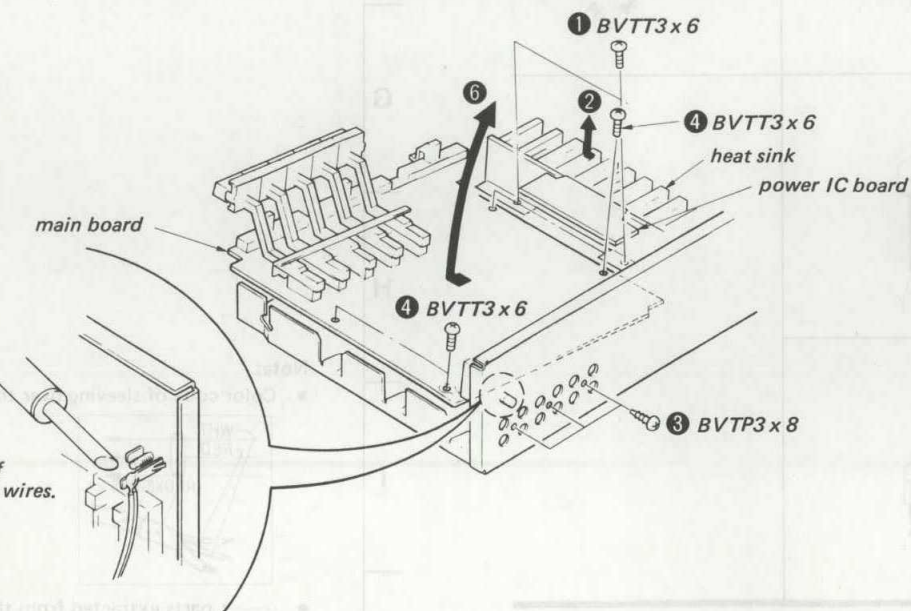
HEADPHONE BOARD/S601



LED. VOL BOARD/SPEAKER SW BOARD/AUX BOARD



MAIN BOARD



Take off the lead wires.

SECTION 3 DIAGRAMS

TA-AX360 TA-AX360

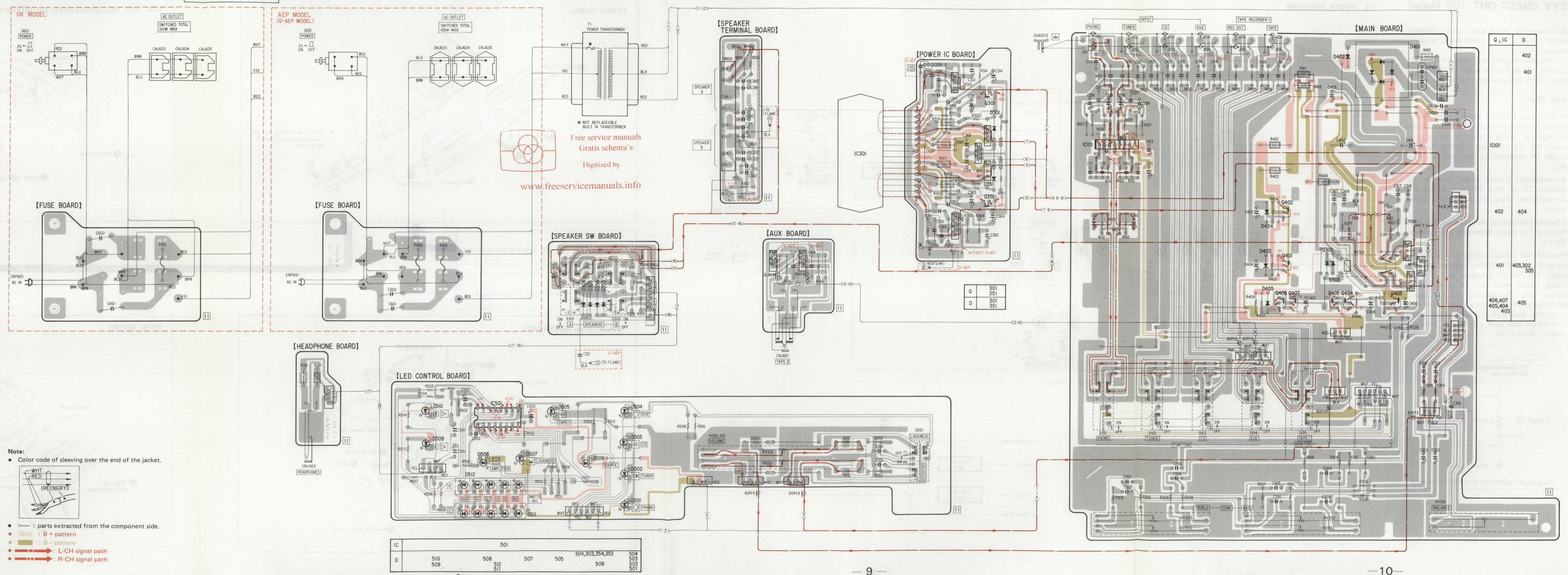
TA-AX360 TA-AX360

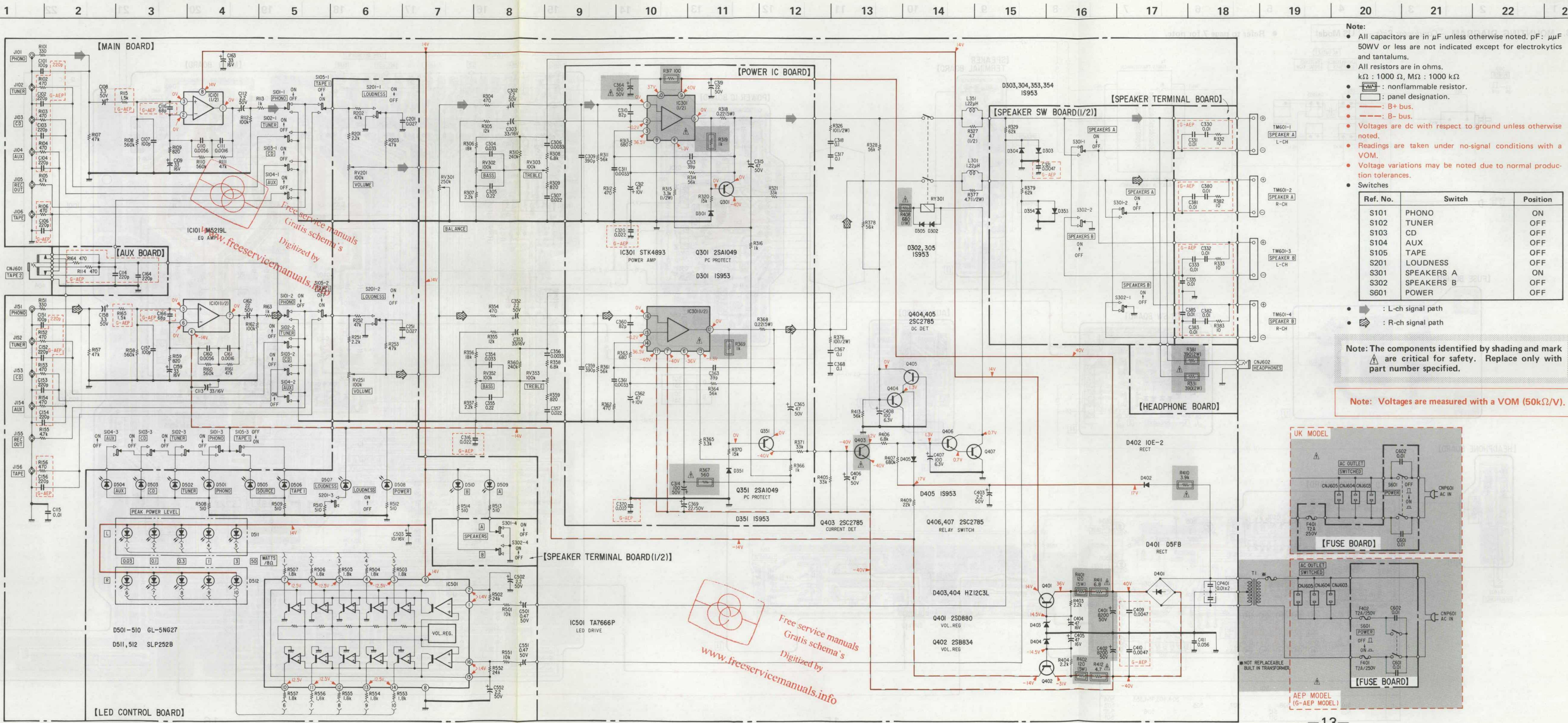
Semiconductor Lead Layouts

TA7666P <p>(Top view)</p>	10E-2 1S953-7 H212C3L
M5219L 	GL-5NG27
STK4893 STK4913 <p>(Marking side view)</p>	SLP252B-50
2SC2785 	D5FB20F
2SA1049 2SC2458 	
2SB834 2SD880 	

3-1. MOUNTING DIAGRAM — Conductor Side —

AEP, G-AEP, UK Model

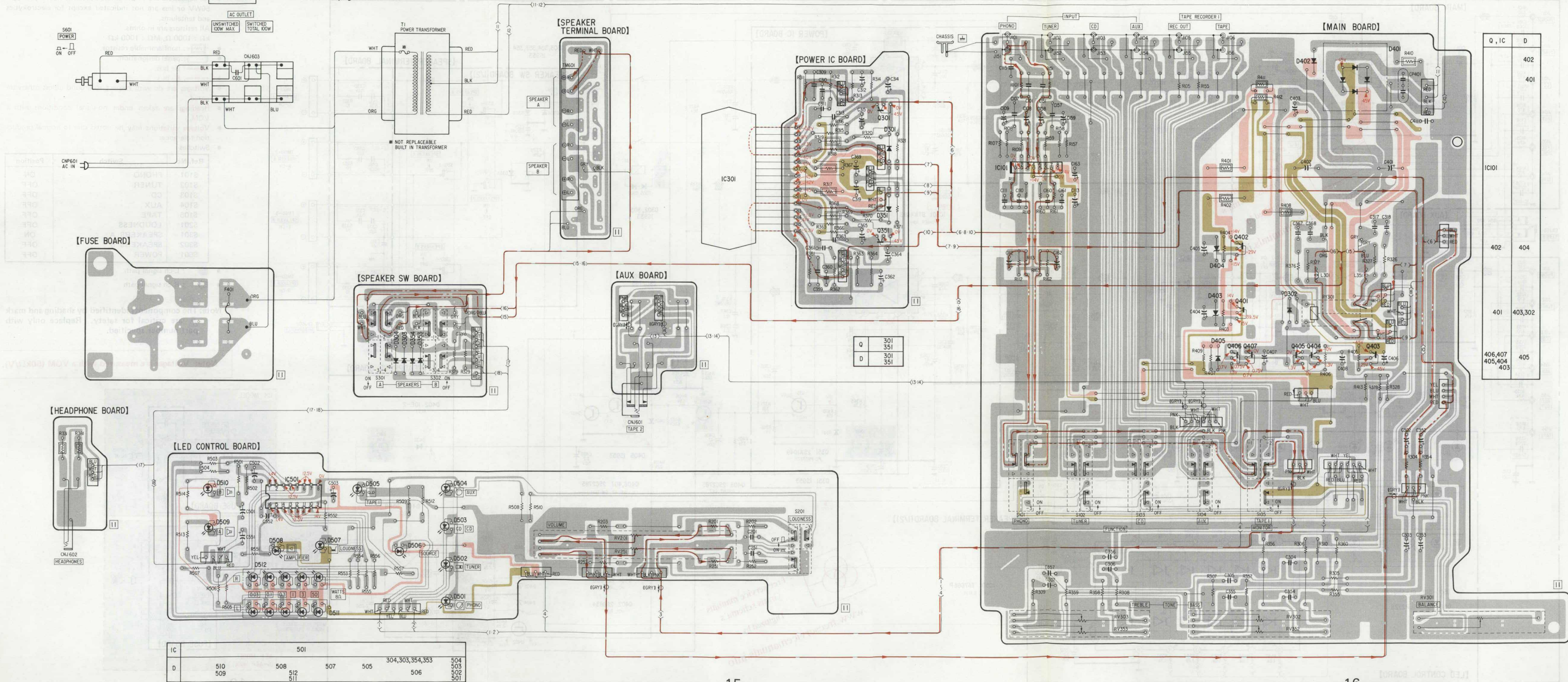




3-3. MOUNTING DIAGRAM — Conductor Side —

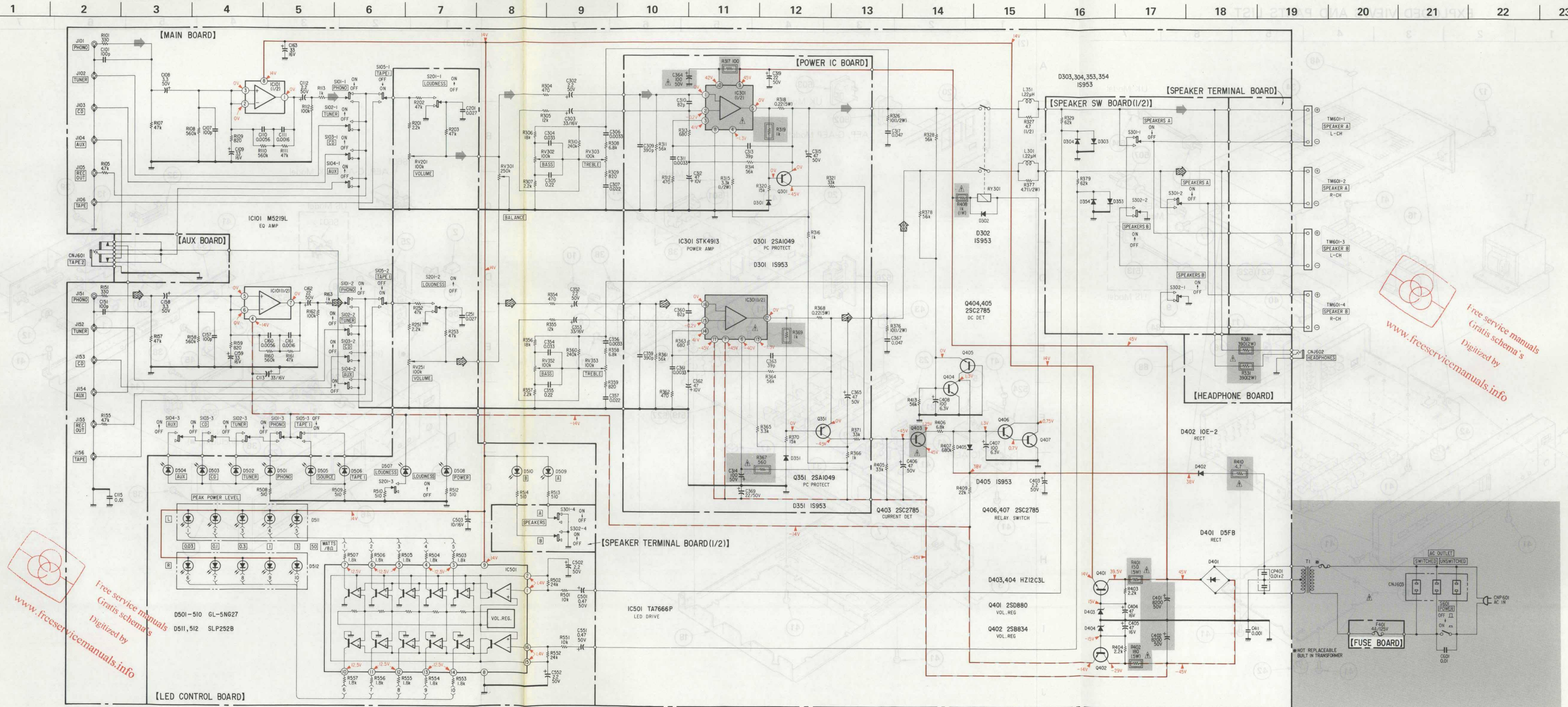
US Model

Refer to page 7 for note.



A
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SECTION 4



GENERAL SECTION

No.	Part No.	Description
1	3-315-105-21	(BLACK)...KNOB (5X16), SQUARE
1	4-881-704-81	(SILVER)...KNOB (5X16), SQUARE
2	3-318-911-01	(SILVER)...KNOB (POWER.L), T MOLD
2	3-318-911-11	(BLACK)...KNOB (POWER.L), T MOLD
3	3-701-030-00	LABEL, SERIAL NUMBER
4	3-701-748-00	CLAMP
5	♣;3-701-946-26	(US)...LABEL, FUSE
6	3-701-993-00	SPACER, TERMINAL
7	3-703-044-26	(US)...LABEL, CAUTION
8	3-703-244-02	(AEP,G-AEP,UK)...BUSHING, CORD
9	3-703-571-00	(US)...BUSHING (S), CORD
10	3-706-165-00	SCREW
11	♣;4-363-146-00	HEAT SINK, V.OUT
12	4-864-307-00	RING
13	♣;4-866-397-00	CUSHION, LED
14	♣;4-881-414-00	BRACKET (FUSE)
15	♣;4-881-424-00	PLATE, BOTTOM
16	♣;4-881-726-00	HEAT SINK (B)
17	4-889-321-01	(SILVER)...SCREW
17	4-889-321-11	(BLACK)...SCREW
18	♣;4-889-335-11	CHASSIS
19	♣;4-902-831-01	JOINT (G), KNOB
20	♣;4-904-406-01	(AEP,G-AEP)...PLATE, JACK
20	♣;4-904-407-01	(UK)...PLATE, JACK
20	♣;4-904-408-01	(US)...PLATE, JACK
21	4-904-419-01	(SILVER)...KNOB (PUSH C), T
21	4-904-419-11	(BLACK)...KNOB (PUSH C), T
22	♣;4-904-420-01	HOLDER, JACK
23	♣;4-904-424-01	PLATE, BACK, SLIDE
24	4-904-425-01	KNOB (SPEAKER), PUSH
25	♣;4-904-426-01	PANEL (LEFT), SUB
26	♣;4-904-427-01	PANEL (RIGHT), SUB
27	♣;4-904-428-01	PLATE, GROUND
28	♣;4-904-431-01	FRAME, CENTER
29	♣;4-904-433-01	JOINT, PUSH KNOB
30	♣;4-904-435-01	HOLDER, LED
31	♣;4-904-436-01	FRAME (LEFT)
32	♣;4-904-437-01	HOLDER (5 GANG), LED
33	♣;4-904-438-01	FRAME, PANEL
34	4-904-440-01	(SILVER)...CASE
34	4-904-440-11	(BLACK)...CASE
35	♣;4-904-446-01	PLATE, GROUND
36	7-682-547-09	SCREW +B 3X6
37	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S

GENERAL SECTION

No.	Part No.	Description
38	7-685-646-11	SCREW +BVTP 3X8 TYPE2 N-S
39	7-685-648-19	SCREW +BVTP 3X12 TYPE2 N-S
40	7-685-649-21	SCREW +BVTP 3X14 TYPE2 N-S
41	7-685-871-01	SCREW +BVTT 3X6 (S)
42	X-3701-069-00	FOOT ASSY, M.F
43	X-4904-401-1	(SILVER)...KNOB ASSY, SLIDE
43	X-4904-401-2	(BLACK)...KNOB ASSY, SLIDE
44	X-4904-402-1	(BLACK)...JOINT ASSY, CONTROL KNOB
44	X-4904-403-1	(SILBER)...JOINT ASSY, CONTROL KNOB
45	X-4904-404-1	(SILBER)...GUIDE ASSY, CONTROL KNOB
45	X-4904-405-1	(BLACK)...GUIDE ASSY, CONTROL KNOB
46	X-4904-410-1	(BLACK)...PANEL ASSY
46	X-4904-411-1	(SILBER)...PANEL ASSY
47	9-911-843-XX	CUSHION
48	4-881-045-00	LABEL, CAUTION

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
81	3-701-630-00	BAG, POLYETHYLENE
82	3-701-690-00	(UK)...LABEL (MADE IN JAPAN)
83	3-703-390-01	(US)...INSTRUCTION
84	♣;3-703-591-01	(G-AEP)...LABEL (23585S)(SMALL), FTZ
85	3-703-713-01	STICKER, SONY SYMBOL (10)
86	3-773-744-11	(AEP,UK)...MANUAL, INSTRUCTION
86	3-773-744-21	(US)...MANUAL, INSTRUCTION
86	3-773-744-41	(AEP)...MANUAL, INSTRUCTION
86	3-773-744-51	(G-AEP)...MANUAL, INSTRUCTION
87	4-858-078-00	SHEET, PROTECTION
88	♣;4-904-415-01	(US)...LABEL, MODEL NUMBER
88	♣;4-904-417-01	(AEP)...LABEL, MODEL NUMBER
88	♣;4-904-417-11	(G-AEP)...LABEL, MODEL NUMBER
88	♣;4-904-418-01	(UK)...LABEL, MODEL NUMBER
89	4-904-442-01	CUSHION (LEFT), LOWER
90	4-904-443-01	CUSHION (RIGHT), LOWER
91	4-904-444-01	CUSHION (LEFT), UPPER
92	4-904-445-01	CUSHION (RIGHT), UPPER
93	4-904-449-01	INDIVIDUAL CARTON

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.
- Due to standardization, parts with part numbers (♣-△△△-△△△-XX or ♣-△△△-△△△-X) may be different from those used in the set.

- 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:

- All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers.

COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

- In each case, U : μ , for example: UA...: μA ..., UPA...: μPA ..., UPC...: μPC , UPD...: μPD ...

NOTE:

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COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

- In each case, U : μ , for example: UA...: μA ..., UPA...: μPA ..., UPC...: μPC , UPD...: μPD ...

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	♣;1-526-574-00	OUTLET, AC (3 GANG)(CNJ603-605)
502	♣;1-526-694-00	(AEP,G-AEP)...OUTLET, AC (CNJ603-605)
503	♣;1-526-751-00	(UK)...OUTLET, AC (CNJ603-605)
504	♣;1-532-204-00	(AEP,G-AEP,UK)...QUICK-ACTING FUSE (F401,402)
505	♣;1-532-579-00	(US)...FUSE, GLASS TUBE (F401)
506	1-533-131-00	HOLDER, FUSE
507	♣;1-534-817-XX	(AEP,G-AEP)...CORD, POWER, EULO PLUG (CNP601)
508	♣;1-535-115-00	(UK)...TERMINAL
509	♣;1-535-116-00	TERMINAL
510	♣;1-535-139-00	BASE POST 22MM (10MM PITCH) 2P
511	♣;1-535-140-00	(AEP,G-AEP,UK)...BASE POST 22MM (10MM PITCH) 3P
512	1-535-416-00	(AEP,G-AEP)...TERMINAL
513	♣;1-551-628-00	(US)...CORD, POWER (CNP601)
514	♣;1-551-884-00	(UK)...CORD, POWER (CNP601)
515	♣;1-562-249-00	SOCKET, CONNECTOR 4P
516	♣;1-562-251-00	SOCKET, CONNECTOR 6P
517	♣;1-562-327-00	SOCKET, CONNECTOR 3P
518	♣;1-562-328-00	SOCKET, CONNECTOR 7P
519	♣;1-612-425-11	PC BOARD, MAIN
520	♣;1-612-426-11	PC BOARD, LEN.VOL
521	♣;1-612-427-11	PC BOARD, POWER IC
522	♣;1-612-428-11	PC BOARD, SPEAKER SW
523	♣;1-612-429-11	PC BOARD, HEADPHONE
524	♣;1-612-430-11	PC BOARD, FUSE
525	♣;1-612-431-11	PC BOARD, AUX
526	♣;1-612-432-11	PC BOARD, SPEAKER TERMINAL
527	♣;A-4388-389-A	(AEP,UK)...MOUNTED PCB, MAIN
527	♣;A-4388-390-A	(G-AEP)...MOUNTED PCB, MAIN
527	♣;A-4388-391-A	(US)...MOUNTED PCB, MAIN
528	♣;A-4409-869-A	(AEP,G-AEP,UK)...MOUNTED PCB, IC, POWER
528	♣;A-4409-870-A	(US)...MOUNTED PCB, IC, POWER
C101	1-161-271-00	(US,AEP,UK)...CERAMIC 100PF 5% 50V
C101	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C102	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C103	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C104	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C105	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C106	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C107	1-161-271-00	CERAMIC 100PF 5% 50V
C108	1-123-382-00	ELECT 3.3MF 20% 50V
C109	1-123-318-00	ELECT 33MF 20% 16V
C110	1-108-573-00	MYLAR 0.0056MF 5% 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C111	1-108-560-00	MYLAR 0.0016MF 5% 50V
C112	1-123-381-00	ELECT 2.2MF 20% 50V
C113	1-123-318-00	ELECT 33MF 20% 16V
C114	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C115	1-161-330-00	CERAMIC 0.01MF 30% 25V
C116	1-161-269-00	(G-AEP)...CERAMIC 68PF 5% 50V
C151	1-161-271-00	(US,AEP,UK)...CERAMIC 100PF 5% 50V
C151	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C152	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C153	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C154	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C155	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C156	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C157	1-161-271-00	CERAMIC 100PF 5% 50V
C158	1-123-382-00	ELECT 3.3MF 20% 50V
C159	1-123-318-00	ELECT 33MF 20% 16V
C160	1-108-573-00	MYLAR 0.0056MF 5% 50V
C161	1-108-560-00	MYLAR 0.0016MF 5% 50V
C162	1-123-381-00	ELECT 2.2MF 20% 50V
C163	1-123-318-00	ELECT 33MF 20% 16V
C164	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C166	1-161-269-00	(G-AEP)...CERAMIC 68PF 5% 50V
C201	1-130-625-00	FILM 0.027MF 5% 50V
C251	1-130-625-00	FILM 0.027MF 5% 50V
C302	1-123-381-00	ELECT 2.2MF 20% 50V
C303	1-123-318-00	ELECT 33MF 20% 16V
C304	1-130-626-00	FILM 0.033MF 5% 50V
C305	1-130-636-00	FILM 0.22MF 5% 50V
C306	1-108-567-00	MYLAR 0.0033MF 5% 50V
C307	1-130-624-00	FILM 0.022MF 5% 50V
C309	1-161-318-00	CERAMIC 390PF 10% 50V
C310	1-102-971-85	CERAMIC 82PF 5% 50V
C311	1-102-123-00	CERAMIC 0.0033MF 10% 50V
C312	1-123-306-00	ELECT 47MF 20% 10V
C313	1-161-266-00	CERAMIC 39PF 5% 50V
C314	♣;1-123-513-00	ELECT 100MF 20% 50V
C315	1-123-512-00	ELECT 47MF 20% 50V
C316	1-161-494-00	(G-AEP)...CERAMIC 0.022MF 30% 25V
C317	1-130-628-00	(US)...FILM 0.047MF 5% 50V
C317	1-136-165-00	(AEP,G-AEP,UK)...FILM 0.1MF 5% 50V
C318	1-136-165-00	(AEP,G-AEP,UK)...FILM 0.1MF 5% 50V
C319	1-123-510-91	ELECT 22MF 20% 50V
C320	1-101-005-00	(G-AEP)...CERAMIC 0.022MF 50V
C321	1-161-328-00	(G-AEP)...CERAMIC 0.0047MF 30% 50V
C330	1-136-153-00	(G-AEP)...FILM 0.01MF 5% 50V
C331	1-136-153-00	(G-AEP)...FILM 0.01MF 5% 50V

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

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
C332	1-136-153-00	(G-AEP)....FILM	0.01MF	5%	50V	
C333	1-136-153-00	(G-AEP)....FILM	0.01MF	5%	50V	
C335	1-136-153-00	(G-AEP)....FILM	0.01MF	5%	50V	
C352	1-123-381-00	ELECT	2.2MF	20%	50V	
C353	1-123-318-00	ELECT	33MF	20%	16V	
C354	1-130-626-00	FILM	0.033MF	5%	50V	
C355	1-130-636-00	FILM	0.22MF	5%	50V	
C356	1-108-567-00	MYLAR	0.0033MF	5%	50V	
C357	1-130-624-00	FILM	0.022MF	5%	50V	
C359	1-161-318-00	CERAMIC	390PF	10%	50V	
C360	1-102-971-85	CERAMIC	82PF	5%	50V	
C361	1-102-123-00	CERAMIC	0.0033MF	10%	50V	
C362	1-123-306-00	ELECT	47MF	20%	10V	
C363	1-161-266-00	CERAMIC	39PF	5%	50V	
C364	Δ.1-123-513-00	ELECT	100MF	20%	50V	
C365	1-123-512-00	ELECT	47MF	20%	50V	
C367	1-130-628-00	(US)....FILM	0.047MF	5%	50V	
C367	1-136-165-00	(AEP,G-AEP,UK)...FILM	0.1MF	5%	50V	
C368	1-136-165-00	(AEP,G-AEP,UK)...FILM	0.1MF	5%	50V	
C369	1-123-510-91	ELECT	22MF	20%	50V	
C370	1-101-005-00	(G-AEP)....CERAMIC	0.022MF		50V	
C380	1-136-153-00	(G-AEP)....FILM	0.01MF	5%	50V	
C381	1-136-153-00	(G-AEP)....FILM	0.01MF	5%	50V	
C382	1-136-153-00	(G-AEP)....FILM	0.01MF	5%	50V	
C383	1-136-153-00	(G-AEP)....FILM	0.01MF	5%	50V	
C385	1-136-153-00	(G-AEP)....FILM	0.01MF	5%	50V	
C401	Δ.1-125-292-00	ELECT(BLOCK)	8200MF	20%	50V	
C402	Δ.1-125-292-00	ELECT(BLOCK)	8200MF	20%	50V	
C403	1-123-381-00	ELECT	2.2MF	20%	50V	
C404	1-123-319-00	ELECT	47MF	20%	16V	
C405	1-123-319-00	ELECT	47MF	20%	16V	
C406	1-123-816-11	ELECT	47MF	20%	50V	
C407	1-123-307-00	ELECT	100MF	20%	6.3V	
C408	1-123-307-00	ELECT	100MF	20%	6.3V	
C409	1-161-328-00	(G-AEP).CERAMIC	0.0047MF	30%	50V	
C410	1-161-328-00	(G-AEP).CERAMIC	0.0047MF	30%	50V	
C411	1-136-162-00	(G-AEP)....FILM	0.056MF	5%	50V	
C501	1-123-610-00	ELECT	0.47MF	20%	50V	
C502	1-123-612-00	ELECT	2.2MF	20%	50V	
C503	1-123-617-00	ELECT	10MF	20%	16V	
C551	1-123-610-00	ELECT	0.47MF	20%	50V	
C552	1-123-612-00	ELECT	2.2MF	20%	50V	
C601	Δ.1-161-744-00	CAP, CERAMIC	10000PF	FZ		
C602	Δ.1-161-744-00	CAP, CERAMIC	10000PF	FZ		
CNJ601	1-507-825-00	JACK, LARGE TYPE				
CNJ602	1-507-863-21	JACK, LARGE TYPE				
CP401	1-102-394-00	CERAMIC	0.01MF		250V	

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q402	8-729-283-42	TRANSISTOR 2S8834
Q403	8-729-178-54	TRANSISTOR 2SC2785
Q404	8-729-245-83	TRANSISTOR 2SC2458
Q405	8-729-245-83	TRANSISTOR 2SC2458
Q406	8-729-245-83	TRANSISTOR 2SC2458
Q407	8-729-245-83	TRANSISTOR 2SC2458
R101	1-247-119-00	CARBON 330 5% 1/4W
R102	1-247-123-00	(G-AEP)....CARBON 470 5% 1/4W
R103	1-247-123-00	(G-AEP)....CARBON 470 5% 1/4W
R104	1-247-123-00	(G-AEP)....CARBON 470 5% 1/4W
R105	1-247-147-00	CARBON 4.7K 5% 1/4W
R106	1-247-123-00	(G-AEP)....CARBON 470 5% 1/4W
R107	1-247-171-00	CARBON 47K 5% 1/4W
R108	1-246-539-00	CARBON 560K 5% 1/4W
R109	1-246-471-00	CARBON 820 5% 1/4W
R110	1-246-539-00	CARBON 560K 5% 1/4W
R111	1-247-171-00	CARBON 47K 5% 1/4W
R112	1-247-179-00	CARBON 100K 5% 1/4W
R113	1-247-131-00	CARBON 1K 5% 1/4W
R114	1-246-465-00	(G-AEP)....CARBON 470 5% 1/4W
R115	1-246-477-00	(G-AEP)....CARBON 1.5K 5% 1/4W
R151	1-247-119-00	CARBON 330 5% 1/4W
R152	1-247-123-00	(G-AEP)....CARBON 470 5% 1/4W
R153	1-247-123-00	(G-AEP)....CARBON 470 5% 1/4W
R154	1-247-123-00	(G-AEP)....CARBON 470 5% 1/4W
R155	1-247-147-00	CARBON 4.7K 5% 1/4W
R156	1-247-123-00	(G-AEP)....CARBON 470 5% 1/4W
R157	1-247-171-00	CARBON 47K 5% 1/4W
R158	1-246-539-00	CARBON 560K 5% 1/4W
R159	1-246-471-00	CARBON 820 5% 1/4W
R160	1-246-539-00	CARBON 560K 5% 1/4W
R161	1-247-171-00	CARBON 47K 5% 1/4W
R162	1-247-179-00	CARBON 100K 5% 1/4W
R163	1-247-131-00	CARBON 1K 5% 1/4W
R164	1-247-123-00	(G-AEP)....CARBON 470 5% 1/4W
R165	1-246-477-00	(G-AEP)....CARBON 1.5K 5% 1/4W
R201	1-247-139-00	CARBON 2.2K 5% 1/4W
R202	1-247-171-00	CARBON 47K 5% 1/4W
R203	1-247-171-00	CARBON 47K 5% 1/4W
R251	1-247-139-00	CARBON 2.2K 5% 1/4W
R252	1-247-171-00	CARBON 47K 5% 1/4W
R253	1-247-171-00	CARBON 47K 5% 1/4W
R304	1-247-123-00	CARBON 470 5% 1/4W
R305	1-246-499-00	CARBON 12K 5% 1/4W
R306	1-247-161-00	CARBON 18K 5% 1/4W

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.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- 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:

- All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers.
- MF: μF , PF: μmF .

COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

- In each case, U : μ , for example:
UA....: μA ..., UPA....: μPA ..., UPC....: μPC ,
UPD....: μPD ...

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R307	1-247-139-00	CARBON 2.2K 5% 1/4W
R308	1-247-151-00	CARBON 6.8K 5% 1/4W
R309	1-246-471-00	CARBON 820 5% 1/4W
R310	1-246-530-00	CARBON 240K 5% 1/4W
R311	1-247-173-00	CARBON 56K 5% 1/4W
R312	1-247-123-00	CARBON 470 5% 1/4W
R313	1-247-127-00	CARBON 680 5% 1/4W
R314	1-247-173-00	CARBON 56K 5% 1/4W
R315	1-244-885-00	CARBON 3.3K 5% 1/2W
R316	1-247-131-00	CARBON 1K 5% 1/4W
R317	1-247-107-00	CARBON 100 5% 1/4W F
R318	1-217-156-00	RES, METAL PLATE 0.22
R319	1-247-131-00	CARBON 1K 5% 1/4W F
R320	1-247-159-00	CARBON 15K 5% 1/4W
R321	1-247-167-00	CARBON 33K 5% 1/4W
R326	1-244-825-00	CARBON 10 5% 1/2W
R327	1-244-817-00	CARBON 4.7 5% 1/2W
R328	1-247-173-00	CARBON 56K 5% 1/4W
R329	1-246-514-00	CARBON 51K 5% 1/4W
R331	1-217-231-11	WIREWOUND 390 10% 2W F
R332	1-247-083-00	(G-AEP)....CARBON 10 5% 1/4W
R333	1-247-083-00	(G-AEP)....CARBON 10 5% 1/4W
R354	1-247-123-00	CARBON 470 5% 1/4W
R355	1-246-499-00	CARBON 12K 5% 1/4W
R356	1-247-161-00	CARBON 18K 5% 1/4W
R357	1-247-139-00	CARBON 2.2K 5% 1/4W
R358	1-247-151-00	CARBON 6.8K 5% 1/4W
R359	1-246-471-00	CARBON 820 5% 1/4W
R360	1-246-530-00	CARBON 240K 5% 1/4W
R361	1-247-173-00	CARBON 56K 5% 1/4W
R362	1-247-123-00	CARBON 470 5% 1/4W
R363	1-247-127-00	CARBON 680 5% 1/4W
R364	1-247-173-00	CARBON 56K 5% 1/4W
R365	1-244-885-00	CARBON 3.3K 5% 1/2W
R366	1-247-131-00	CARBON 1K 5% 1/4W
R367	1-247-125-00	CARBON 560 5% 1/4W F
R368	1-217-156-00	RES, METAL PLATE 0.22
R369	1-247-131-00	CARBON 1K 5% 1/4W F
R370	1-247-159-00	CARBON 15K 5% 1/4W
R371	1-247-167-00	CARBON 33K 5% 1/4W
R376	1-244-825-00	CARBON 10 5% 1/2W
R377	1-244-817-00	CARBON 4.7 5% 1/2W
R378	1-247-173-00	CARBON 56K 5% 1/4W
R379	1-246-514-00	CARBON 51K 5% 1/4W
R381	1-217-231-11	WIREWOUND 390 10% 2W F

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R382	1-247-083-00	(G-AEP)....CARBON 10 5% 1/4W
R383	1-247-083-00	(G-AEP)....CARBON 10 5% 1/4W
R401	1-217-311-11	(AEP,G-AEP,UK)...WIREWOUND 120 10% 5W F
R401	1-217-312-00	(US).....WIREWOUND 150 10% 5W F
R402	1-217-311-11	(AEP,G-AEP,UK)...WIREWOUND 120 10% 5W F
R402	1-217-313-00	(US).....WIREWOUND 180 10% 5W F
R403	1-247-139-00	CARBON 2.2K 5% 1/4W
R404	1-247-139-00	CARBON 2.2K 5% 1/4W
R405	1-247-167-00	CARBON 33K 5% 1/4W
R406	1-247-151-00	CARBON 6.8K 5% 1/4W
R407	1-246-533-00	(AEP,G-AEP,UK)...CARBON 330K 5% 1/4W
R407	1-246-541-00	(US)....CARBON 680K 5% 1/4W
R408	1-213-141-00	(AEP,G-AEP,UK)...METAL OXIDE 1K 5% 1W F
R408	1-213-143-00	(US).....METAL OXIDE 1K 5% 1W F
R409	1-246-505-00	CARBON 22K 5% 1/4W
R410	1-247-079-00	(US).....CARBON 4.7 5% 1/4W F
R410	1-247-145-00	(AEP,G-AEP,UK)...CARBON 3.9K 5% 1/4W F
R411	1-247-082-00	(AEP,G-AEP,UK)...SOLID 6.8 1/4W F
R412	1-202-852-00	(AEP,G-AEP,UK)...SOLID 4.7 1/4W F
R413	1-247-173-00	CARBON 56K 5% 1/4W
R501	1-247-155-00	CARBON 10K 5% 1/4W
R502	1-246-506-00	CARBON 24K 5% 1/4W
R503	1-247-139-00	CARBON 2.2K 5% 1/4W
R504	1-247-139-00	CARBON 2.2K 5% 1/4W
R505	1-247-139-00	CARBON 2.2K 5% 1/4W
R506	1-247-139-00	CARBON 2.2K 5% 1/4W
R507	1-247-139-00	CARBON 2.2K 5% 1/4W
R508	1-246-466-00	CARBON 510 5% 1/4W
R509	1-246-466-00	CARBON 510 5% 1/4W
R510	1-246-466-00	CARBON 510 5% 1/4W
R512	1-246-466-00	CARBON 510 5% 1/4W
R513	1-246-466-00	CARBON 510 5% 1/4W
R514	1-246-466-00	CARBON 510 5% 1/4W
R551	1-247-155-00	CARBON 10K 5% 1/4W
R552	1-246-506-00	CARBON 24K 5% 1/4W
R553	1-247-139-00	CARBON 2.2K 5% 1/4W
R554	1-247-139-00	CARBON 2.2K 5% 1/4W
R555	1-247-139-00	CARBON 2.2K 5% 1/4W
R556	1-247-139-00	CARBON 2.2K 5% 1/4W
R557	1-247-139-00	CARBON 2.2K 5% 1/4W

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COILS

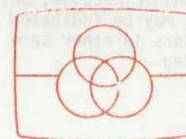
- MMH : mH, UH : μH

SEMICONDUCTORS

- In each case, U : μ , for example:
UA....: μA ..., UPA....: μPA ..., UPC....: μPC ,
UPD....: μPD ...

ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV201	1-230-417-11	RES, VAR, SLIDE 100K/100K (VOLUME)
RV251	1-230-417-11	RES, VAR, SLIDE 100K/100K (VOLUME)
RV301	1-230-418-11	RES, VAR, SLIDE 250K (BALANCE)
RV302	1-230-419-11	RES, VAR, SLIDE 100K/100K (BASS)
RV303	1-230-419-11	RES, VAR, SLIDE 100K/100K (TREBLE)
RV352	1-230-419-11	RES, VAR, SLIDE 100K/100K (BASS)
RV353	1-230-419-11	RES, VAR, SLIDE 100K/100K (TREBLE)
RY301	1-515-533-11	RELAY
S101	1-554-835-11	SWITCH, PUSH (5 KEY)(PHONO)
S102	1-554-835-11	SWITCH, PUSH (5 KEY)(TUNER)
S103	1-554-835-11	SWITCH, PUSH (5 KEY)(CD)
S104	1-554-835-11	SWITCH, PUSH (5 KEY)(AUX)
S105	1-554-835-11	SWITCH, PUSH (5 KEY)(TAPE)
S201	1-554-833-11	SWITCH, PUSH (1 KEY)(LOUDNESS)
S301	1-554-834-11	SWITCH, PUSH (2 KEY)(SPEAKERS A)
S302	1-554-834-11	SWITCH, PUSH (2 KEY)(SPEAKERS B)
S601	1-553-318-00	(US)....SWITCH, PUSH (AC POWER) (1 KEY)(POWER)
S601	1-554-685-31	(AEP,G-AEP,UK)...SWITCH, PUSH (AC POWER)(1 KEY)(POWER)
T1	1-447-827-11	(AEP,G-AEP,UK)...TRANSFORMER, POWER
T1	1-447-828-11	(US).....TRANSFORMER, POWER
TM601	1-536-706-00	TERMINAL BOARD (SP)



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