

TA-AX410

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model



Photo: silver type

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; rated 50 watts per channel minimum RMS power, with no more than 0.008% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Continuous RMS power output
(Canadian, AEP, UK, E model)

(both channels driven simulta-
neously) At 1 kHz
70 + 70 watts (5% THD, 8 ohms)
At 20 Hz – 20 kHz, 0.008% THD
50 + 50 watts (8 ohms)
According to DIN 45500
50 + 50 watts (8 ohms)

Music power output (E model)

200 watts (8 ohms)

Power bandwidth (IHF)

5 Hz – 40 kHz (0.02% THD)

Dynamic headroom

1.8 dB ('78 IHF)

Harmonic distortion

Less than 0.008% at rated output

Intermodulation (IM) distortion

(60 Hz: 7 kHz = 4 : 1) Less than 0.008% at rated output

Frequency response

PHONO : RIAA equalization curve ± 0.5 dB

TUNER

CD

AUX

TAPE 1.2

5 Hz – 100 kHz ± 0 dB

Residual noise Less than 50 μ V (8 ohms, network A)

Damping factor 50 (8 ohms, 1 kHz)

— 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.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

INTEGRATED STEREO AMPLIFIER
SONY®



AUD

Inputs

	Sensitivity	Impedance	Maximum input capability (1 kHz)	S/N (weighting network, input level)
PHONO	2.0 mV	50 kilohms	120 mV	75 dB 79 dB* (A, 2.0 mV)
TUNER CD AUX TAPE 1,2	150 mV	50 kilohms	—	100 dB 88 dB* (A, 150 mV)

* '78 IHF

Outputs

REC OUT

Voltage 150 mV

Impedance 4.7 kilohms

SPEAKER A, B

Accepts speakers of 8 - 16 ohms.

HEADPHONES

Accepts low and high impedance headphones.

Tone controls

BASS

±10 dB at 50 Hz (turnover freq. 250 Hz)

TREBLE

±10 dB at 15 kHz (turnover freq. 3 kHz)

Subsonic filter

6 dB/octave attenuation below 15 Hz

High filter

6 dB/octave attenuation above 9 kHz

Muting

-20 dB

General

System

Preamplifier section: low-noise IC NF type equalizer amplifier; NF-CR type ASP tone control

Power amplifier section: quasi-complementary SEPP OCL power amplifier with all stages direct coupled

Power requirements

US, Canadian 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

E model: 120, 220 or 240 V ac adjustable, 50/60 Hz

Power consumption

US, UK model: 110 watts

Canadian model: 170 watts

AEP, E model: 130 watts

AC outlets

US, Canadian, E model:

2 switched, total 100 watts max.

1 unswitched, 100 watts max.

AEP model:

3 switched, total 100 watts max.

UK model: not provided

Dimensions

Approx. 430 x 105 x 280 mm (w/h/d)

(17 1/8 x 4 1/4 x 11 1/8 inches)

Weight

including projecting parts and controls

Approx. 6.2 kg (13 lbs 11 oz) net

Approx. 7.7 kg (17 lbs) in shipping carton

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)

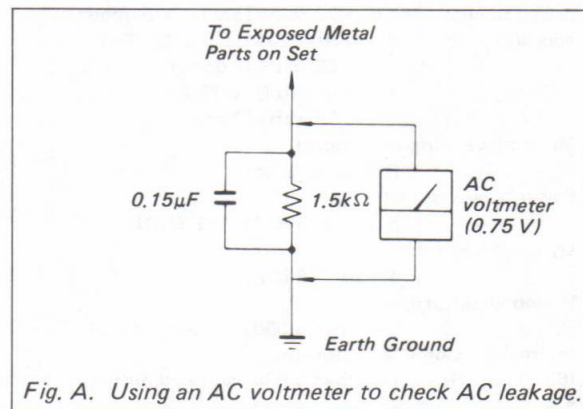
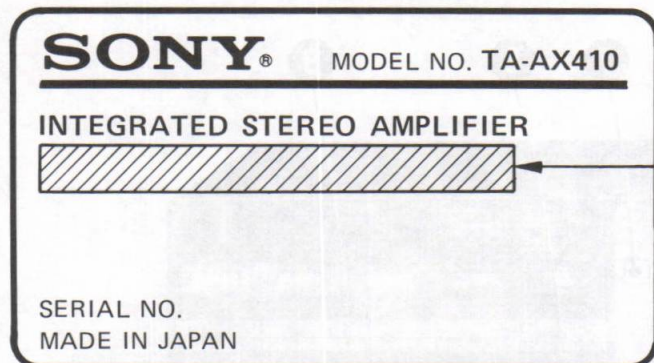


Fig. A. Using an AC voltmeter to check AC leakage.

MODEL IDENTIFICATION

Specification Label



US model:	AC 120V 60Hz 110W
Canadian model:	AC 120V 60Hz 170W
AEP model:	AC 220V 50/60Hz 130W
UK model:	AC 240V 50/60Hz 110W
E model:	AC 120/220/240V 50/60Hz 130W

FEATURES

The TA-AX410 integrated stereo amplifier incorporates a number of technical breakthroughs in circuit design to take full advantage of new digital sources such as the CD (compact disc), with a power output of 50 + 50 watts (20 Hz - 20 kHz, 0.008% THD).

MAJOR DESIGN ELEMENTS AND CIRCUIT FEATURES

ASP (Audio Signal Processor) IC in the preamplifier stage

The Audio Signal Processor IC developed by Sony can digitally control the tone, filter and volume settings. The ASP IC also permits electronic program source selection. Mechanical controls and switches have been practically eliminated from the front panel. In combination with a microcomputer and a non-volatile memory IC, the ASP IC offers greater flexibility — an Acoustic Function, an ability to store and recall two sets of tonal adjustments.

Legato linear power amplifier stage

The operation of the power amplifier stage is stable without any observable distortion up through the higher frequencies. We call this power amp "Legato Linear" because its switching distortion is very low and its output waveform smooth.

Simple, straight signal path layout

The ASP IC layout near the input and output terminals minimize wiring losses and allow low distortion operation.

Volume control using ASP IC

The volume can be adjusted with the slightest touch of the electronically driven volume control button. When the power is turned on, the volume is set to the minimum level and automatically increased to the previously set level.

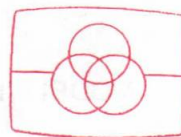
CD (compact disc) inputs

Independent CD inputs are provided to connect a brand-new CD player to your stereo system.

Wireless remote control operation

Using the optional RM-S410 system remote controller, various operations—power on/off, program selection, volume up/down, muting on/off and timer operation—can be remotely controlled.

FUNCTION OF CONTROLS



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Front panel

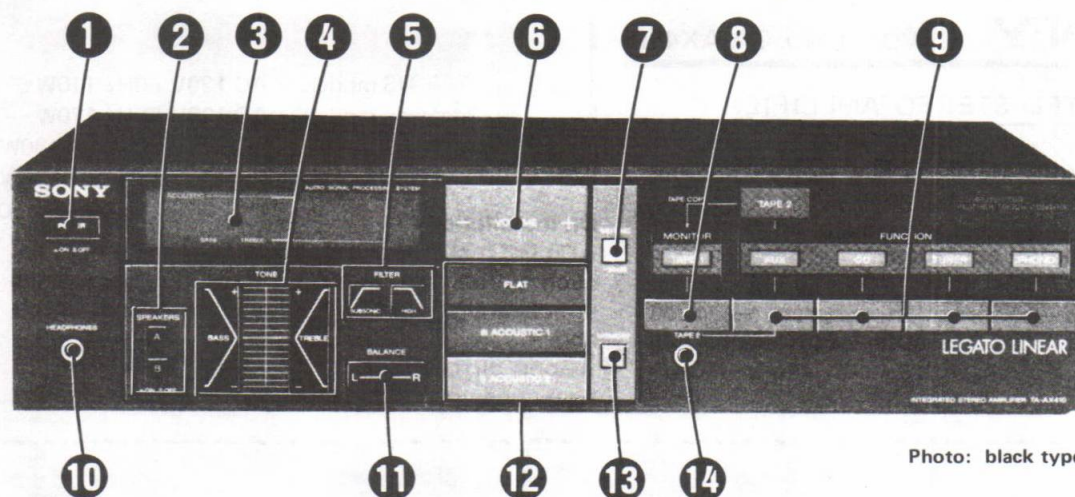


Photo: black type

① POWER switch

Turns the operating power on or off.

② SPEAKERS select buttons

Select speaker system A or B, or both.

③ Fluorescent display

④ BASS and TREBLE TONE controls

Regulates the bass and treble response. Press its upper-end (+) to increase the response, and its lower-end (-) to decrease it.

⑤ FILTER buttons

SUBSONIC: If subsonic noise components created by warped records, etc. are present, the audible range frequencies may be modulated and cause irritating intermodulation distortion. In this case, press this button to reduce unwanted noise components in the program source. The filter will cut off any input signals below 15 Hz at a 6 dB-per-octave rate. Press this button again to disengage it.

HIGH: If tape hiss or a beat is audible, press this button. Unwanted noise components will be reduced. When you press this button again, the filter is disengaged.

⑥ VOLUME control

Regulates the overall sound level. Press its right-end (+) to increase the sound level, and its left-end (-) to decrease it.

⑦ MUTING button

When the MUTING button is pressed, the MUTING indicator will light up and the overall listening sound level is reduced by 20 dB. When the button is disengaged by pressing it again, you can restore exactly the same listening level as before.

This feature is useful when you lower the tonearm onto the record or when you answer the telephone.

⑧ MONITOR (TAPE 1) button

Press this button to listen to a tape deck connected to the TAPE RECORDER 1 inputs on the rear panel. The indicator will light up. Press the button again to disengage it when listening to other program sources.

⑨ FUNCTION select buttons

Press one of these buttons to select a desired program source other than a taped program connected to the TAPE RECORDER 1 input. The indicator of the pressed button will light up.

PHONO: For record programs (connected to PHONO inputs)

TUNER: For broadcasting programs (connected to TUNER inputs)

CD: For compact disc programs (connected to CD inputs).

AUX: For auxiliary programs (connected to AUX inputs on the rear panel) or for taped programs (connected to the TAPE 2 input on the front panel).

⑩ HEADPHONES jack

Accepts any low or high impedance stereo headphones. For headphone monitoring only, keep both SPEAKERS select buttons A and B released.

11 BALANCE control

Governs the amount of sound coming from each paired speaker to get optimum stereo effect.

Pressing the right-end (R) will decrease the left channel volume, and pressing the left-end (L) will decrease the right channel volume.

12 ACOUSTIC buttons

Press either ACOUSTIC 1 or 2 button just after pressing the MEMORY button to store the acoustic settings—tone and filters. Once set, you can recall these acoustic settings instantly. Use the FLAT button to disengage the settings recalled by the acoustic function or the normal tonal settings. At the FLAT position, flat frequency response results.

13 MEMORY button

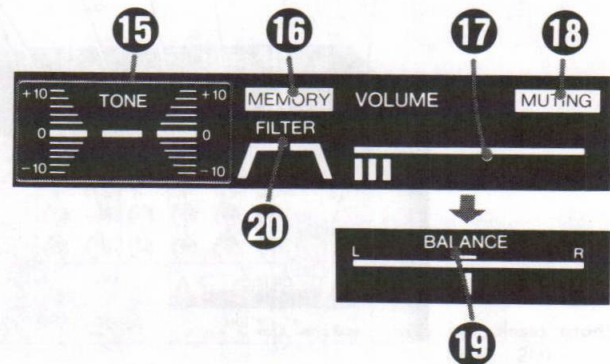
When this button is pressed, the MEMORY indicator will light up and the acoustic settings can be stored on either of the ACOUSTIC buttons.

14 TAPE 2 input jack (stereo phone jack)

This stereo phone jack allows you to quickly and easily connect a tape recorder for playback with the optional RK-81A connecting cord (stereo phone plug to two phono plugs).

The tape thus played back can be copied by the tape deck connected to the TAPE RECORDER 1 REC OUT outputs on the rear panel.

The TAPE 2 input has priority over the AUX input on the rear panel.

Fluorescent display section**15 TONE indicator**

A straight bar graph indicates a flat frequency response.

Bars move up and down, depending on the tone control settings, graphically showing the tone control characteristics.

16 MEMORY indicator

Lights up when you press the MEMORY button.

17 VOLUME indicator

The volume is displayed by the vertical bar graphs. The bars move toward the right as the volume increases.

18 MUTING indicator

Lights up when you press the MUTING button.

19 BALANCE indicator

When you press the BALANCE control, the VOLUME indicator disappears and BALANCE indicator appears. Parallel bars move between the L and the R when either side of the BALANCE control is pressed. A few seconds after you stop pressing the BALANCE control, the display automatically changes to the VOLUME indicator.

20 FILTER indicator

The settings of the SUBSONIC FILTER (left) button or the HIGH FILTER (right) button or both are graphically displayed.

Rear panel

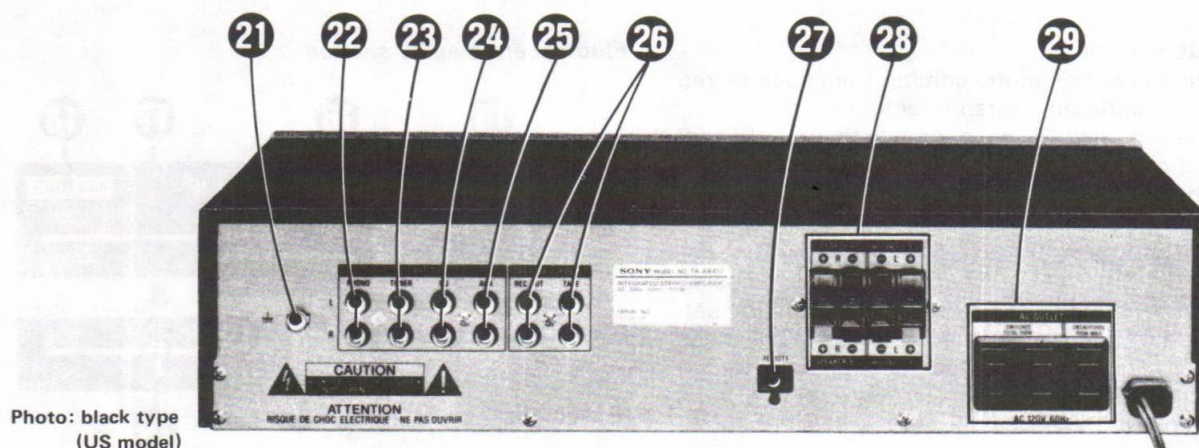


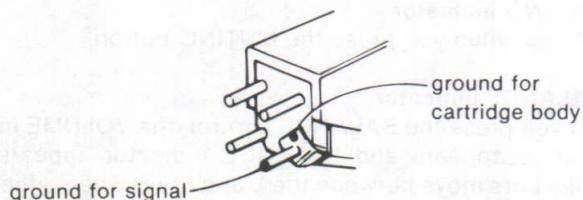
Photo: black type
(US model)

21 Ground terminal

For a turntable system with a ground wire, be sure to connect it to this terminal to prevent hum. If hum still exists, it may be helpful to connect the ground terminal directly to earth via a ground rod.

Note

When a special MM cartridge with the ground to signal connected to the ground for cartridge body, is installed to a metal cartridge shell, the current will flow in a loop and cause hum noise. In this case, disconnect the turntable ground wire from the $\perp$ terminal of the amplifier, or disconnect the ground for cartridge body from the ground for signal.



22 PHONO inputs (phono jack)

Accept the outputs of a turntable system with an MM (moving magnet) type cartridge.

23 TUNER inputs (phono jack)

Accept the outputs of a tuner.

24 CD (compact disc) inputs (phono jack)

Accept the outputs of a compact disc player.

25 AUX (auxiliary) inputs (phono jack)

Accept various input sources such a tape deck (for playback only), an additional tuner, etc.

26 TAPE RECORDER 1 inputs/outputs (phono jack)

The TAPE inputs accept the outputs of a tape deck for playing back tapes. The REC OUT (outputs) accept the inputs of a tape deck for tape recording.

Note: The AUX, CD, TUNER and TAPE RECORDER inputs are identical in sensitivity and input impedance.

27 Remote control connector (not supplied for the UK model)

For connecting the optional RM-S410 system remote controller.

28 SPEAKER A, B connectors

For connecting a speaker system or two pairs of speaker systems. System A and system B can be selected by means of the front panel SPEAKERS select buttons.

29 AC OUTLETS (not supplied for the UK model)

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

These are used to power other audio components whose power consumption is less than the wattage indicated below.

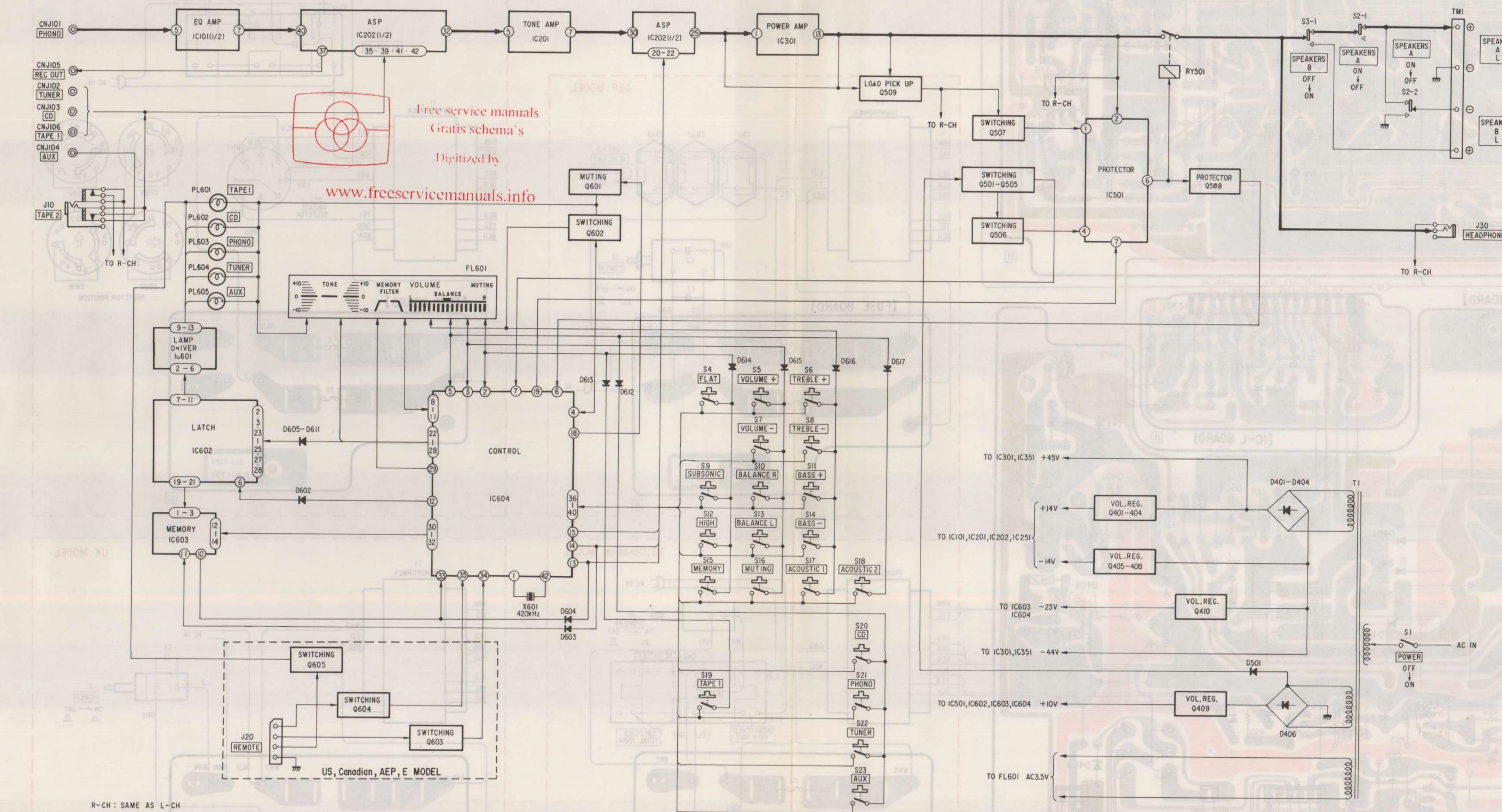
	AEP model	UK model	US Canadian E model
Switched (pcs.)	3		2
Power consumption	total 100 watts	not provided	total 100 watts
Unswitched (pcs.)			1
power consumption	not provided	not provided	100 watts

The SWITCHED outlet is controlled by the front panel POWER switch.

The UNSWITCHED outlet (only on US, Canadian, E model) is not controlled by the POWER switch.

Do not connect any electrical home appliance such as an electric iron, fan, TV or other high-wattage equipment to these ac outlets.

For customer of the E3 model supplied with the plug adaptor: Use the plug adaptor to connect the amplifier to an ac outlet in the house. However, when making power connections among the Sony components, this adaptor is not needed.

SECTION 1
BLOCK DIAGRAMSECTION 2
DISASSEMBLY

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

CASE

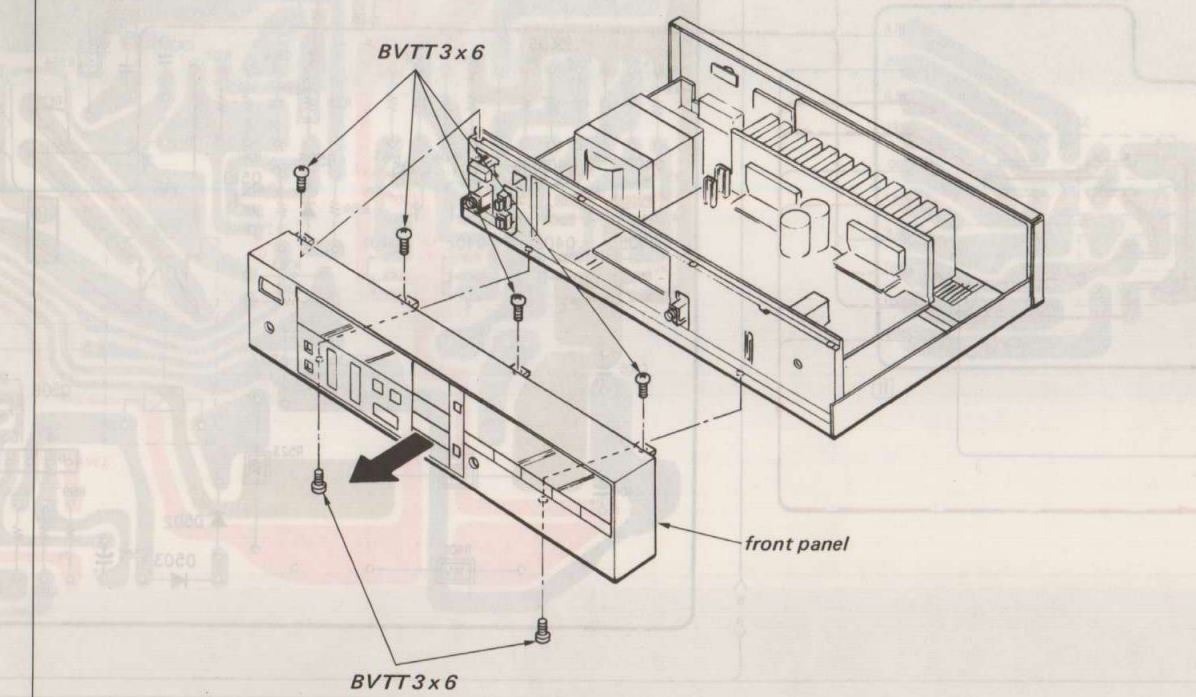
Remove the four case securing screws at both side.

BOTTOM PLATE

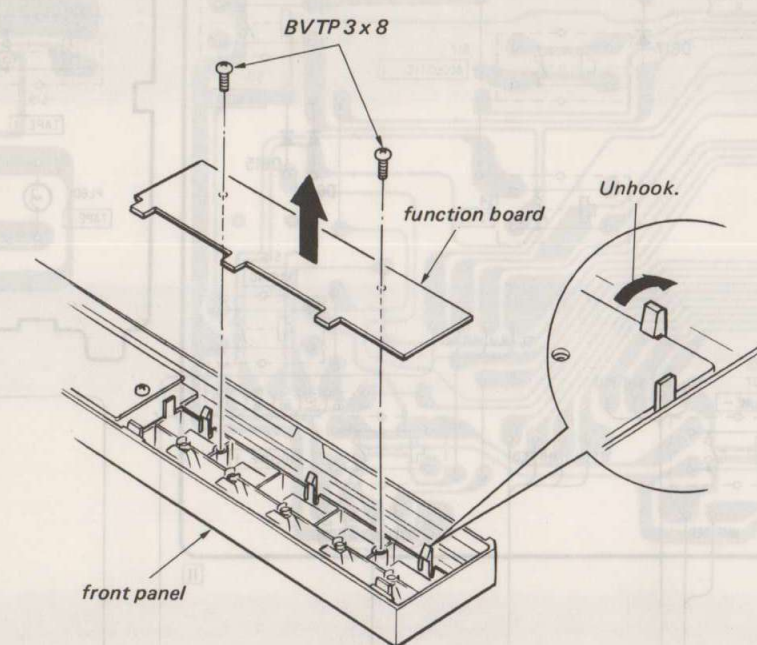
Remove the bottom plate by loosening four screws.

The IC-L, IC-R and main board can be checked.

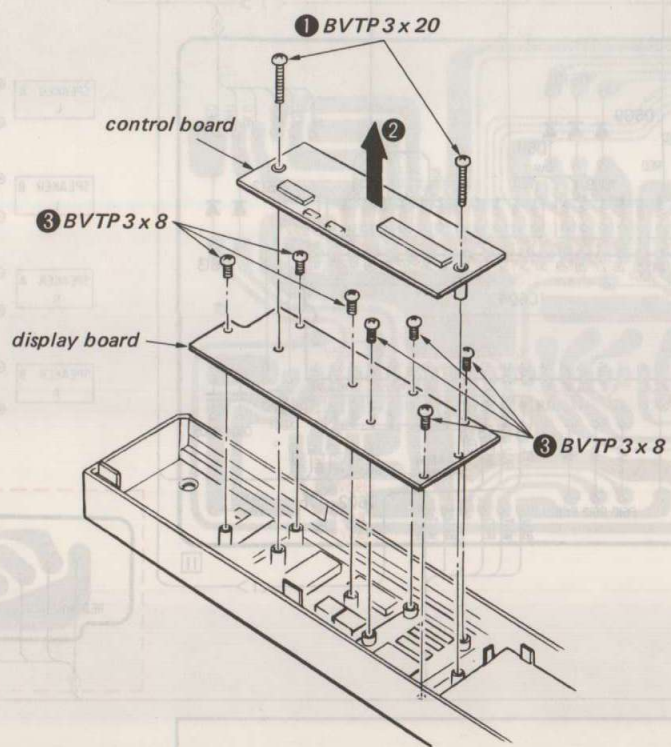
FRONT PANEL



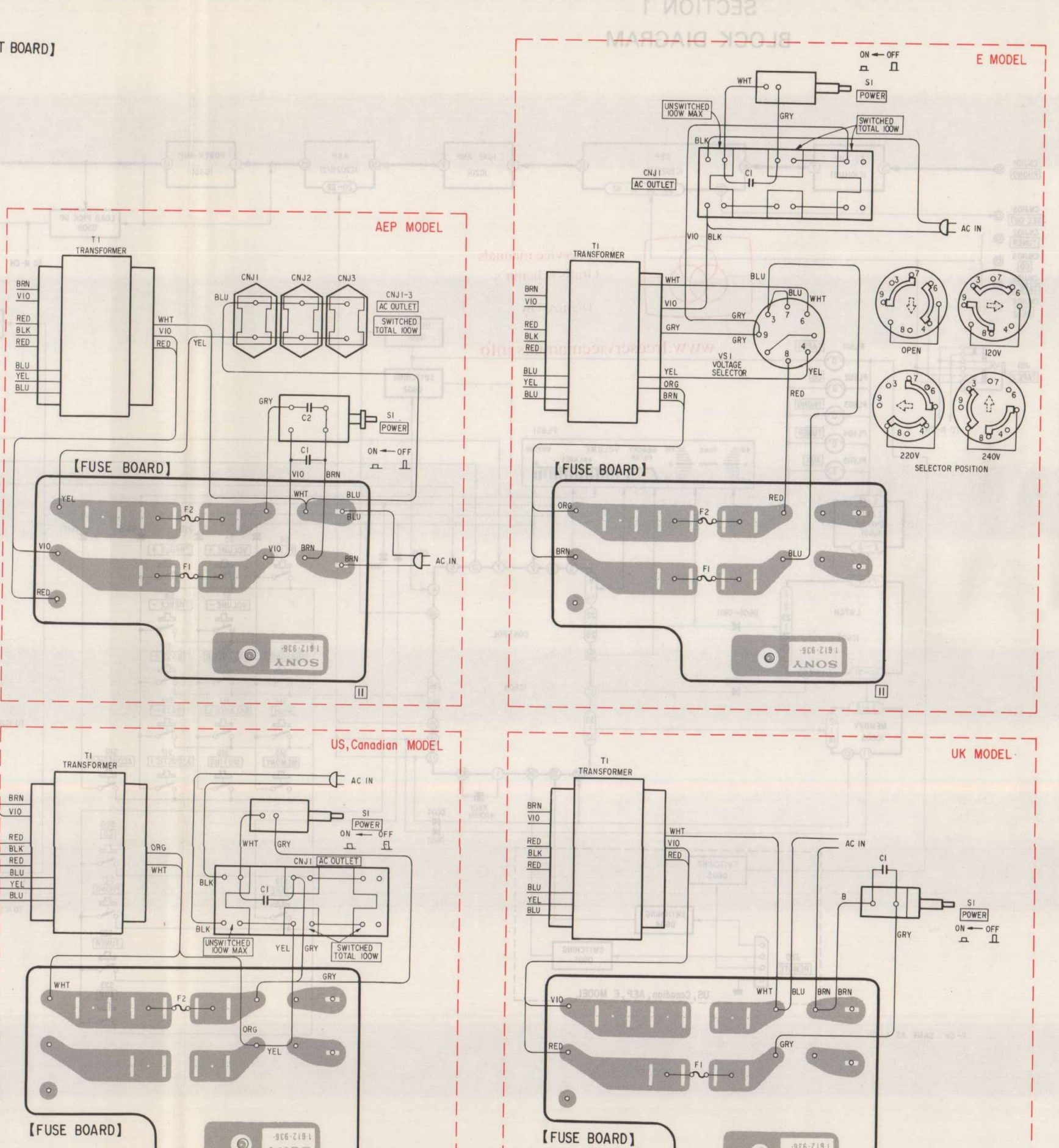
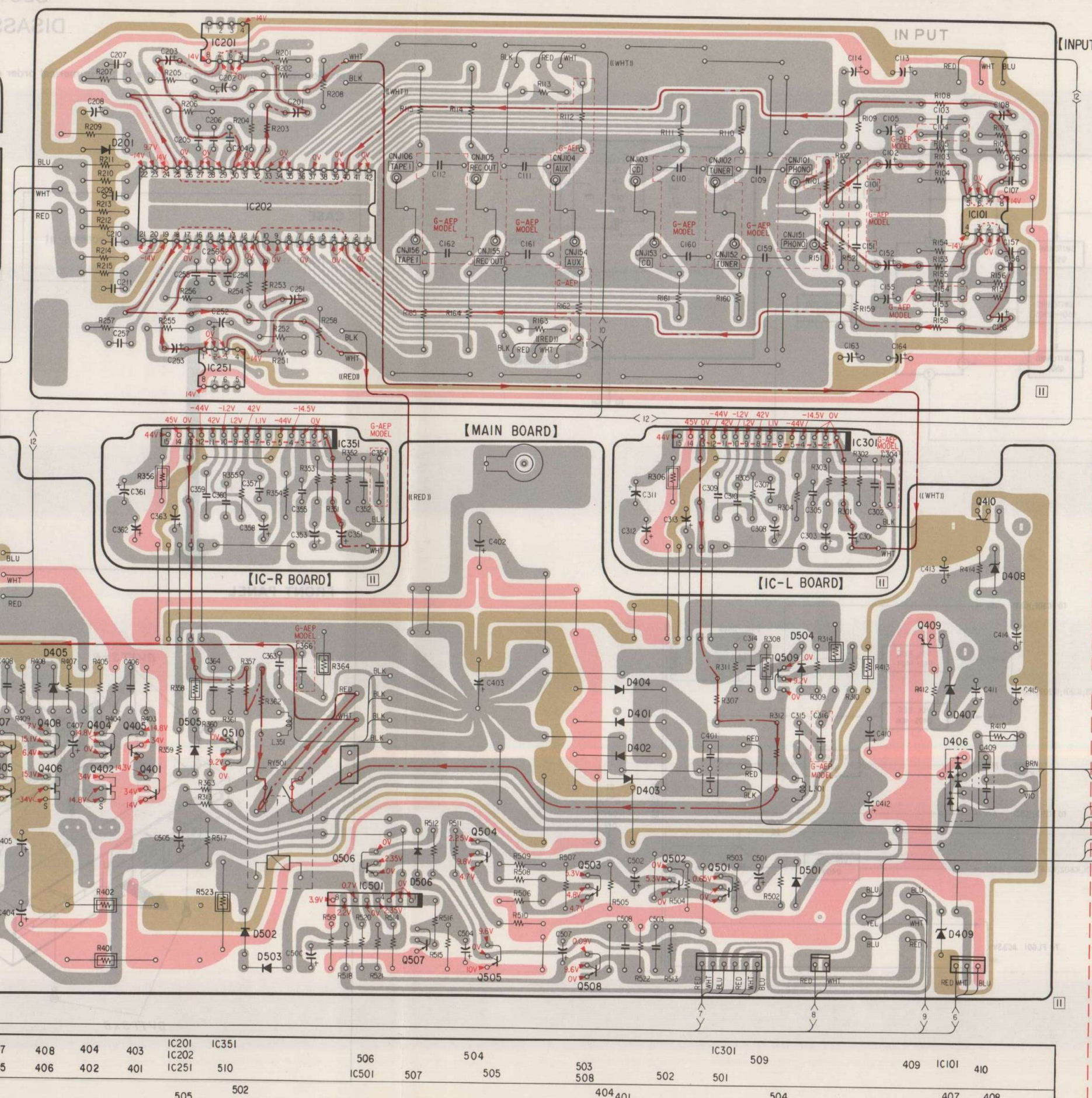
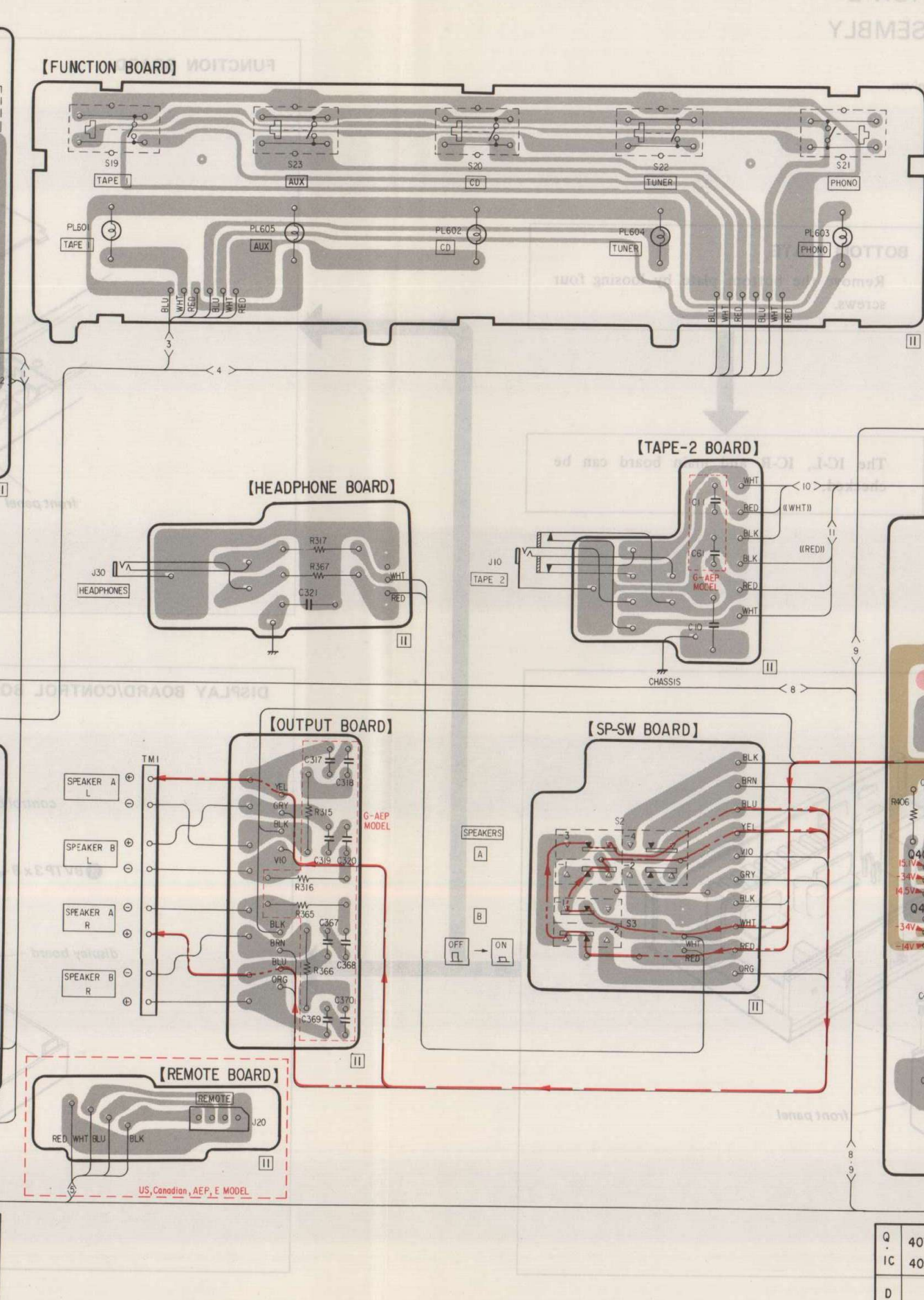
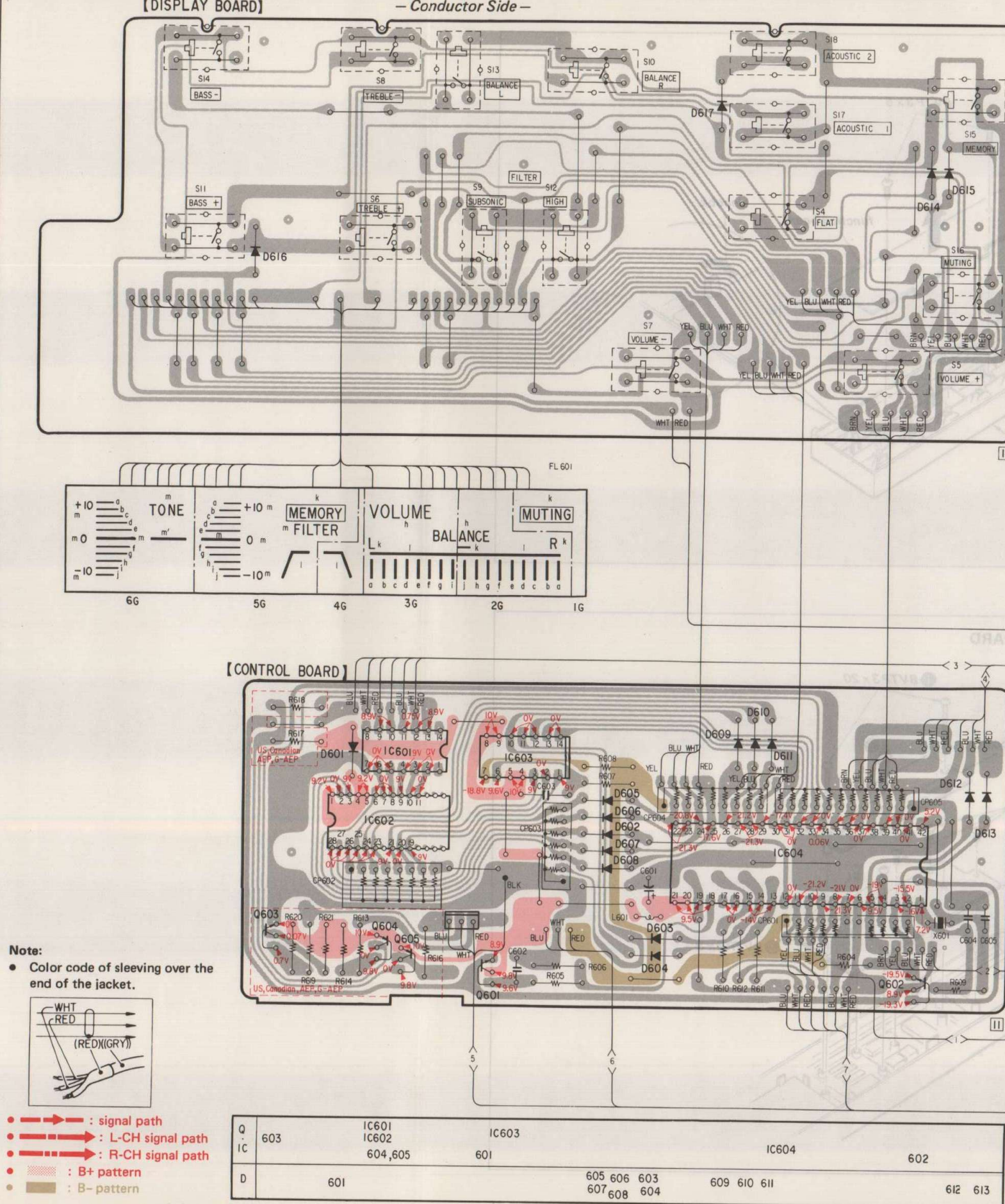
FUNCTION BOARD

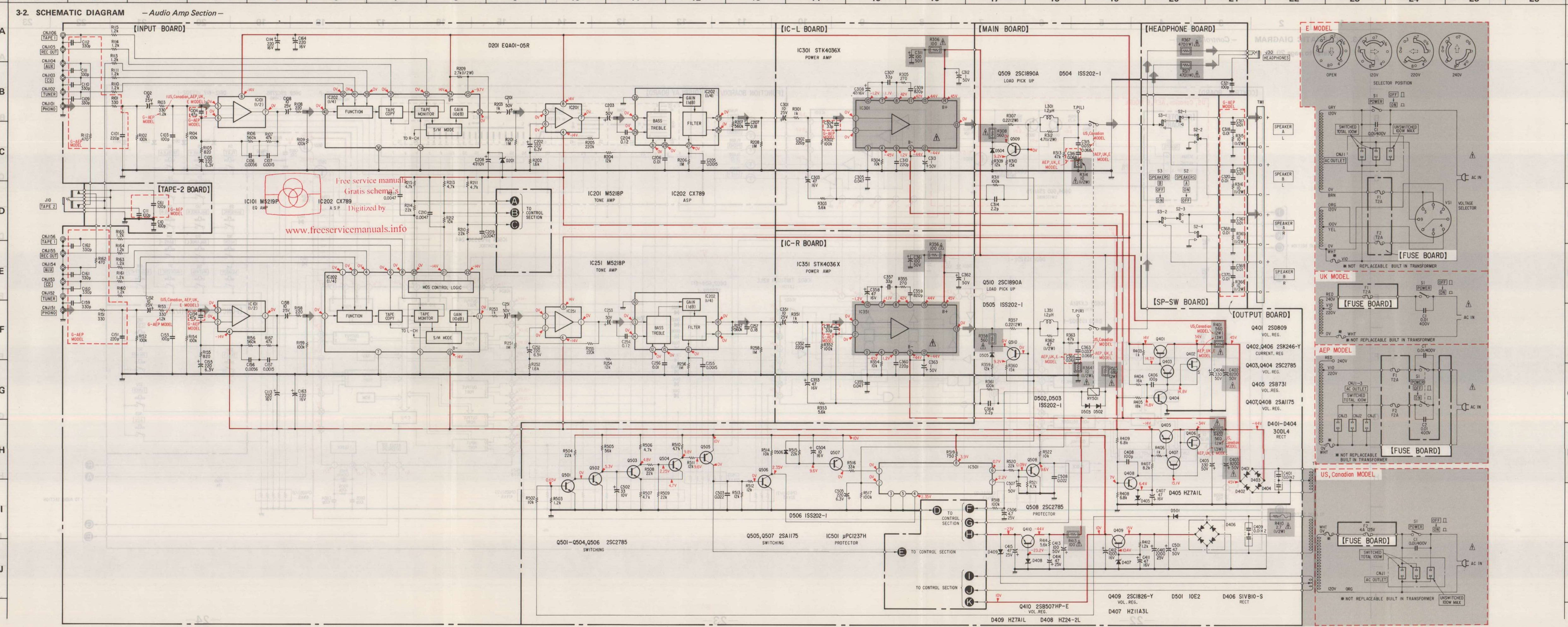


DISPLAY BOARD/CONTROL BOARD



SECTION 3 DIAGRAMS 3-1. MOUNTING DIAGRAM - Conductor Side - Refer to page 21 for semiconductor lead layouts.





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

Note: Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note:

- All capacitors are in μF unless otherwise noted. pF: μF 50WV 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 (detuned) conditions with VOM (50 k Ω /V).
- Voltage variations may be noted due to normal production tolerances.
- Switches

Ref. No.	Switch	Position
S1	POWER	OFF
S2	SPEAKER A	ON
S3	SPEAKER B	OFF
S4	FLAT	OFF
S5	VOLUME +	OFF
S6	TREBLE +	OFF
S7	VOLUME -	OFF
S8	TREBLE -	OFF
S9	SUBSONIC	OFF
S10	BALANCE $\rightarrow$	OFF
S11	BASS +	OFF
S12	HIGH	OFF
S13	BALANCE $\leftarrow$	OFF
S14	BASS -	OFF
S15	MEMORY	OFF
S16	MUTING	OFF
S17	ACOUSTIC 1	OFF
S18	ACOUSTIC 2	OFF
S19	TAPE	OFF
S20	CD	OFF
S21	PHONO	OFF
S22	TUNER	OFF
S23	AUX	OFF

Note: Voltages are measured with a VOM (50k Ω /V).

—20—

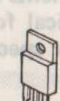
TA-AX410

TA-AX410

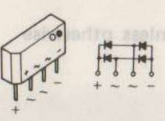
TA-AX410

TA-AX410

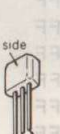
Semiconductor Lead Layouts

EQA01-05R
30DL4
HZ7A1L
HZ11A3L
HZ24-2L
10E2
1SS202-12SC1826-Y
2SB507HP-E2SC1890A
2SC2060-P

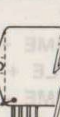
S1VB20

2SD809
2SB731

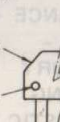
2SK246-Y

2SC2785
2SA1175

STK4036X

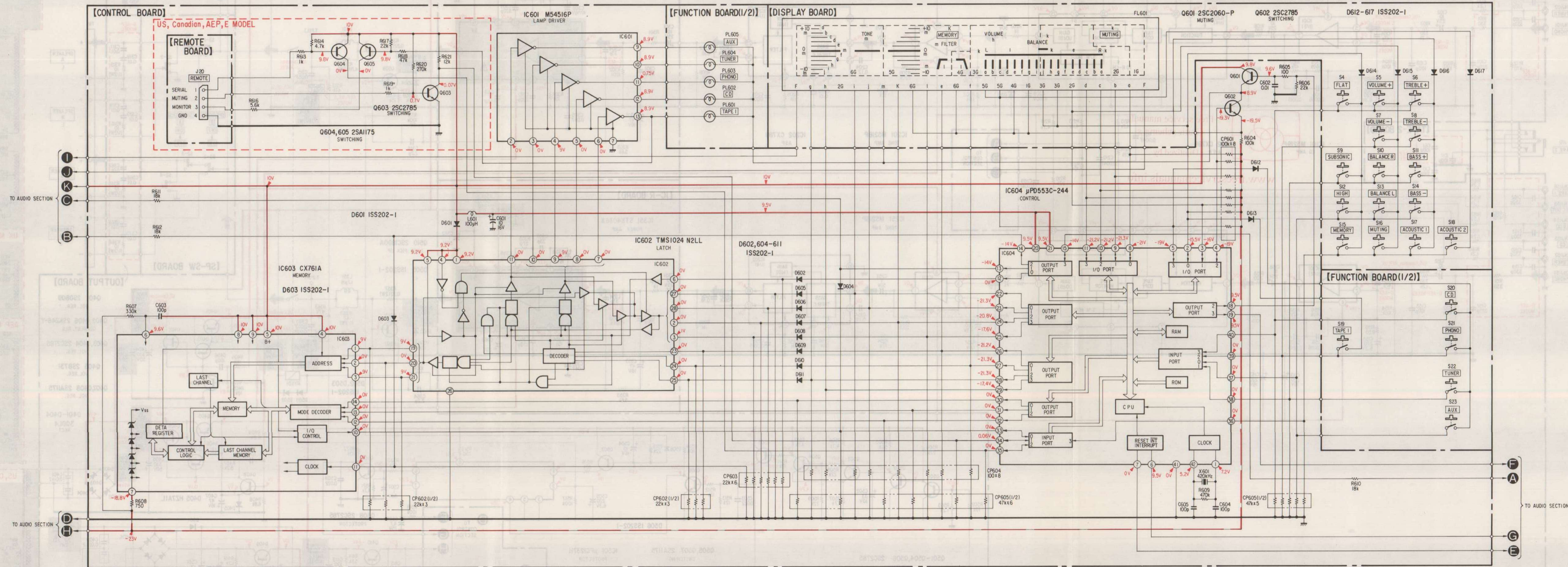


μPC1237H



3-3. SCHEMATIC DIAGRAM — Control Section —

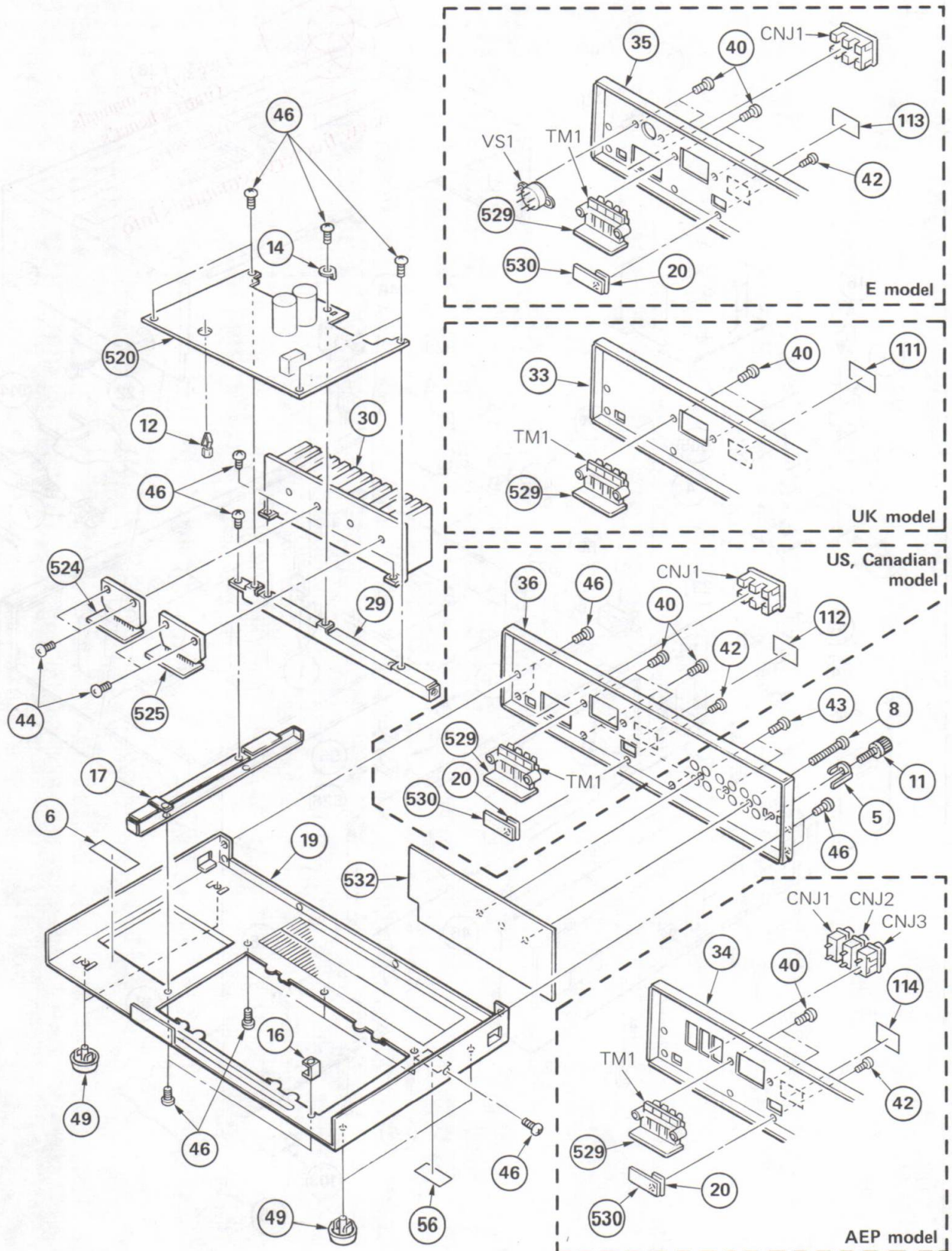
- Refer to page 20 for notes.



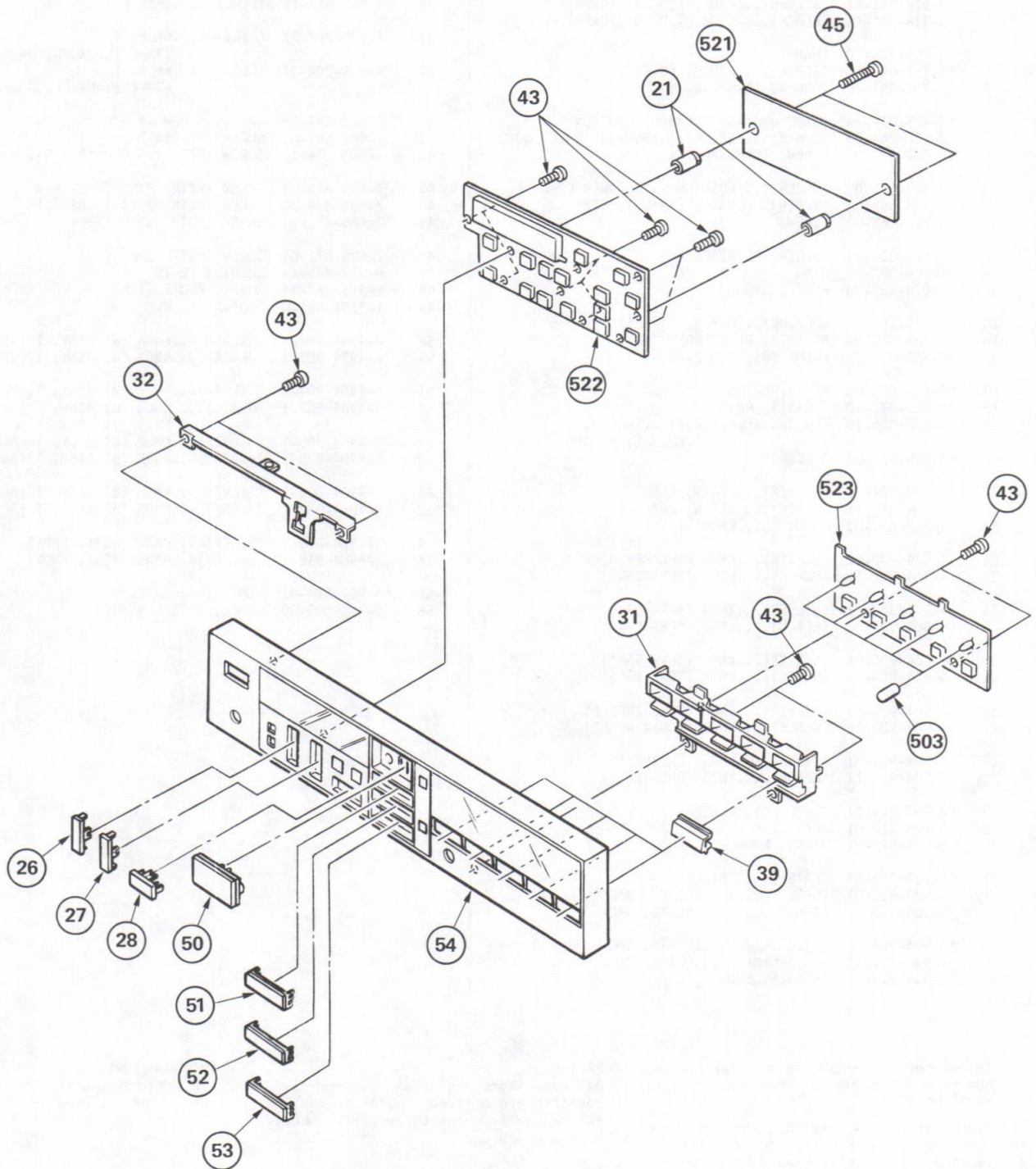
It's Free



4-2.



4-3.



GENERAL SECTION

No.	Part No.	Description
1	3-309-144-21	HEAT SINK
2	3-318-911-01	(SILVER)...KNOB, T MOLD (POWER)
2	3-318-911-11	(BLACK)....KNOB, T MOLD (POWER)
3	3-701-748-00	CLAMP
4	*3-701-948-17	(AEP,E)....LABEL, FUSE
5	3-701-993-00	SPACER, TERMINAL
6	*3-703-044-26	(US,Canadian)...LABEL, CAUTION
7	3-703-244-00	(Canadian,AEP,UK)...BUSHING, POWER CORD
8	3-703-473-00	SCREW, TERMINAL
9	3-703-571-00	(US,E)....BUSHING (S), POWER CORD
10	*3-703-591-01	(G-AEP)....LABEL (SMALL), FTZ
11	3-706-165-00	SCREW
12	*4-861-614-41	HOLDER, PC BOARD
13	4-864-307-00	RING
14	4-870-539-00	PLATE, GROUND
15	4-875-455-01	(AEP,UK)...COVER, CAPACITOR
16	*4-882-024-00	BRACKET, PC BOARD
17	*4-882-026-00	FRAME (B), CENTER
18	*4-882-028-00	PLATE, BOTTOM
19	*4-882-031-12	CHASSIS, MAIN
20	4-882-034-00	(US,Canadian,AEP,E)...SPACER, TERMINAL, 2 GANG
21	*4-886-873-00	SPACER
22	4-889-321-01	(SILVER)...SCREW, CASE
22	4-889-321-11	(BLACK)....SCREW, CASE
23	*4-902-831-01	JOINT (G), KNOB
24	4-904-902-01	(SILVER)...KNOB (SPEAKER-A)
24	4-904-902-11	(BLACK)....KNOB (SPEAKER-A)
25	4-904-902-21	(SILVER)...KNOB (SPEAKER-B)
25	4-904-902-31	(BLACK)....KNOB (SPEAKER-B)
26	4-904-906-01	(SILVER)...KNOB (TONE-BASS)
26	4-904-906-21	(BLACK)....KNOB (TONE-BASS)
27	4-904-906-11	(SILVER)...KNOB (TONE-TREBLE)
27	4-904-906-31	(BLACK)....KNOB (TONE-TREBLE)
28	4-904-907-01	(SILVER)...KNOB (BALANCE)
28	4-904-907-11	(BLACK)....KNOB (BALANCE)
29	*4-904-911-01	FRAME (C), CENTER
30	*4-904-912-01	HEAT SINK
31	4-904-913-01	HINGE, KNOB
32	*4-904-914-01	PLATE (B), SHIELD
33	*4-904-915-01	(UK).....PLATE, JACK
34	*4-904-915-11	(AEP).....PLATE, JACK
35	*4-904-915-21	(E).....PLATE, JACK
36	*4-904-915-31	(US,Canadian)...PLATE, JACK
37	*4-904-916-01	CHASSIS, SUB

GENERAL SECTION

No.	Part No.	Description
38	4-904-917-01	(SILVER)...CASE
38	4-904-917-11	(BLACK)....CASE
39	4-905-208-21	(SILVER)...KNOB, T (TAPE 1,AUX,CD,TUNER,PHONO)
39	4-905-208-31	(BLACK)....KNOB, T (TAPE 1,AUX,CD,TUNER,PHONO)
40	7-682-547-09	(E)....SCREW +B 3X6
41	7-682-647-01	SCREW +PS 3X6
42	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S
43	7-685-646-71	SCREW +BVTP 3X8 TYPE2 N-S
44	7-685-649-21	SCREW +BVTP 3X14 TYPE2 SLIT
45	7-685-651-11	SCREW +BVTP 3X20 TYPE1
46	7-685-871-01	SCREW +BVTT 3X6 (S)
47	9-911-843-XX	CUSHION (t=10)
48	9-911-863-XX	COVER, PROTECTION
49	X-3701-069-0	FOOT ASSY, M.F
50	X-4904-902-1	(SILVER)...KNOB (A) ASSY, T (VOLUME)
50	X-4904-903-1	(BLACK)....KNOB (A) ASSY, T (VOLUME)
51	X-4904-904-1	(SILVER)...KNOB (B) ASSY, T (FLAT)
51	X-4904-907-1	(BLACK)....KNOB (B) ASSY, T (FLAT)
52	X-4904-905-1	(SILVER)...KNOB (B) ASSY, T (ACOUSTIC 1)
52	X-4904-908-1	(BLACK)....KNOB (B) ASSY, T (ACOUSTIC 1)
53	X-4904-906-1	(SILVER)...KNOB (B) ASSY, T (ACOUSTIC 2)
53	X-4904-909-1	(BLACK)....KNOB (B) ASSY, T (ACOUSTIC 2)
54	X-4904-911-1	(BLACK)....PANEL ASSY, FRONT
54	X-4904-912-1	(SILVER)...PANEL ASSY, FRONT
55	*4-904-909-01	PLATE (A), SHIELD
56	3-701-030-00	LABEL, SERIAL NUMBER

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CAPACITORS:

- All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers.
MF: μF , PF: $\mu\mu\text{F}$.

COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

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

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
101	3-701-630-00	BAG, POLYETHYLENE(FOR INSTRUCTION MANUAL)
102	3-703-390-01	(US).....INSTRUCTION
103	3-703-680-00	(US,UK)....LABEL, CAUTION, SUB, NEW UL
104	3-773-893-11	(Canadian,AEP,UK,E)...MANUAL, INSTRUCTION
105	3-773-893-21	(US)....MANUAL, INSTRUCTION
105	3-773-893-41	(AEP)...MANUAL, INSTRUCTION
106	4-858-078-00	SHEET, PROTECTION (FOR SET)
107	4-904-442-01	CUSHION (LEFT), LOWER
108	4-904-443-01	CUSHION (RIGHT), LOWER
109	4-904-444-01	CUSHION (LEFT), UPPER
110	4-904-445-01	CUSHION (RIGHT), UPPER
111	*4-904-920-01	(UK).....LABEL, MODEL NUMBER
112	*4-904-921-01	(US).....LABEL, MODEL NUMBER
112	*4-904-922-01	(Canadian)...LABEL, MODEL NUMBER
113	*4-904-923-01	(E).....LABEL, MODEL NUMBER
114	*4-904-924-01	(AEP).....LABEL, MODEL NUMBER
115	4-904-926-01	INDIVIDUAL CARTON

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	*1-508-809-00	BASE POST (14MM) 2P
502	*1-508-810-00	14MM BASE POST
503	1-517-072-00	(US,Canadian)...LAMP HOLDER
504	△.1-526-565-00	(E3)...AC PLUG ADAPTOR
505	1-533-131-00	(AEP,UK,E)...HOLDER, FUSE
506	*1-535-115-00	TERMINAL
507	*1-535-116-00	TERMINAL
508	*1-535-119-00	TERMINAL
509	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P
510	*1-535-140-00	(AEP)...BASE POST 22MM (10MM PITCH) 3P
511	*1-535-416-00	(AEP)...TERMINAL
512	△.1-551-472-00	(E).....CORD, POWER
512	△.1-551-511-00	(Canadian)...CORD, POWER
512	△.1-551-628-00	(US).....CORD, POWER
513	△.1-551-884-00	(UK)....CORD, POWER
514	△.1-534-817-XX	(AEP)...CORD, POWER, EULO PLUG
515	*1-560-060-00	PIN, CONNECTOR 2P
516	*1-560-061-00	PIN, CONNECTOR 3P
517	*1-560-064-00	PIN, CONNECTOR 6P
518	*1-562-249-00	SOCKET, CONNECTOR 4P
519	*1-562-251-00	SOCKET, CONNECTOR 6P
520	*1-612-926-11	PC BOARD, MAIN
520	*A-4388-397-A	(US).....MOUNTED PCB, MAIN
520	*A-4388-398-A	(Canadian)...MOUNTED PCB, MAIN
520	*A-4388-399-A	(AEP,UK,E)...MOUNTED PCB, MAIN
520	*A-4388-400-A	(G-AEP).....MOUNTED PCB, MAIN
521	*1-612-927-11	PC BOARD, CONTROL
522	*1-612-928-11	PC BOARD, DISPLAY
523	*1-612-929-11	PC BOARD, FUNCTION
524	*1-612-930-11	PC BOARD, IC-L
525	*1-612-931-11	PC BOARD, IC-R
526	*1-612-932-11	PC BOARD, TAPE-2
527	*1-612-933-11	PC BOARD, HEADPHONE
528	*1-612-934-11	PC BOARD, SP-SW
529	*1-612-935-11	PC BOARD, OUTPUT
530	*1-612-936-11	(US,Canadian,AEP,E)...PC BOARD, REMOTE
531	*1-612-938-11	PC BOARD, FUSE
532	*1-612-939-11	PC BOARD, INPUT
532	*A-4382-157-A	(US,Canadian,AEP,UK,E)...MOUNTED PCB, INPUT
532	*A-4382-158-A	(G-AEP).....MOUNTED PCB, INPUT
533	*1-562-327-00	SOCKET, CONNECTOR 3P
534	*1-562-250-00	SOCKET, CONNECTOR 5P
C1	△.1-161-744-00	CERAMIC 10000PF 400V
C2	△.1-161-744-00	(AEP)....CERAMIC 10000PF 400V
C10	1-161-271-00	CERAMIC 100PF 5% 50V

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CAPACITORS:

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

COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

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

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

Les composants identifiés par une trame et une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C11	1-102-973-00	(G-AEP)...CERAMIC	100PF	5%	50V
C61	1-102-973-00	(G-AEP)...CERAMIC	100PF	5%	50V
C101	1-161-315-00	(G-AEP)...CERAMIC	220PF	10%	50V
C102	1-123-356-00	ELECT	10MF	20%	50V
C103	1-161-271-00	CERAMIC	100PF	5%	50V
C104	1-161-267-00	(G-AEP)...CERAMIC	47PF	5%	50V
C105	1-123-308-00	ELECT	220MF	20%	10V
C106	1-106-190-00	MYLAR	0.0056MF	5%	100V
C107	1-106-176-00	MYLAR	0.0015MF	5%	100V
C108	1-123-356-00	ELECT	10MF	20%	50V
C109	1-161-317-00	(G-AEP)...CERAMIC	330PF	10%	50V
C110	1-161-317-00	(G-AEP)...CERAMIC	330PF	10%	50V
C111	1-161-317-00	(G-AEP)...CERAMIC	330PF	10%	50V
C112	1-161-317-00	(G-AEP)...CERAMIC	330PF	10%	50V
C113	1-123-321-00	ELECT	220MF	20%	16V
C114	1-123-321-00	ELECT	220MF	20%	16V
C201	1-123-380-00	ELECT	1MF	20%	100V
C202	1-123-308-00	ELECT	220MF	20%	10V
C203	1-123-380-00	ELECT	1MF	20%	100V
C204	1-136-166-00	FILM	0.12MF	5%	50V
C205	1-106-176-00	MYLAR	0.0015MF	5%	100V
C206	1-108-579-00	MYLAR	0.01MF	5%	50V
C207	1-136-168-00	FILM	0.18MF	5%	50V
C208	1-123-306-00	ELECT	47MF	20%	10V
C209	1-106-188-00	MYLAR	0.0047MF	5%	100V
C210	1-106-188-00	MYLAR	0.0047MF	5%	100V
C211	1-106-188-00	MYLAR	0.0047MF	5%	100V
C301	1-123-356-00	ELECT	10MF	20%	50V
C302	1-161-315-00	CERAMIC	220PF	10%	50V
C303	1-123-332-00	ELECT	47MF	20%	25V
C304	1-161-265-00	(G-AEP)...CERAMIC	33PF	5%	50V
C305	1-108-595-00	MYLAR	0.047MF	5%	50V
C307	1-107-288-00	MICA	33PF	5%	100V
C308	1-123-332-00	ELECT	47MF	20%	25V
C309	1-161-322-00	CERAMIC	820PF	10%	50V
C310	1-107-308-00	MICA	220PF	5%	100V
C311	1-123-360-00	ELECT	100MF	20%	50V
C312	1-123-380-00	ELECT	1MF	20%	100V
C313	1-123-380-00	ELECT	1MF	20%	100V
C314	1-161-251-00	CERAMIC	2.2PF	10%	50V
C315	1-108-591-00	(US,Canadian)...MYLAR	0.033MF	5%	50V
C315	1-108-599-00	(AEP,UK,E).....MYLAR	0.068MF	5%	50V
C316	1-108-599-00	(AEP,UK,E).....MYLAR	0.068MF	5%	50V
C317	1-108-579-00	(G-AEP)...MYLAR	0.01MF	5%	50V
C318	1-108-579-00	(G-AEP)...MYLAR	0.01MF	5%	50V
C319	1-108-579-00	(G-AEP)...MYLAR	0.01MF	5%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C320	1-108-579-00	(G-AEP)...MYLAR	0.01MF	5%	50V
C321	1-161-271-00	CERAMIC	100PF	5%	50V
C401	1-102-394-00	CERAMIC			250V
C402	1-125-372-11	ELECT(BLOCK)	8200MF	20%	50V
C403	1-125-372-11	ELECT(BLOCK)	8200MF	20%	50V
C404	1-123-362-00	ELECT	330MF	20%	50V
C405	1-123-362-00	ELECT	330MF	20%	50V
C406	1-161-271-00	CERAMIC	100PF	5%	50V
C407	1-123-332-00	ELECT	47MF	20%	25V
C408	1-161-271-00	CERAMIC	100PF	5%	50V
C409	1-102-394-00	CERAMIC			250V
C410	1-123-338-00	ELECT	2200MF	20%	25V
C411	1-123-332-00	ELECT	47MF	20%	25V
C412	1-123-324-00	ELECT	1000MF	20%	16V
C413	1-123-360-00	ELECT	100MF	20%	50V
C414	1-123-332-00	ELECT	47MF	20%	25V
C415	1-123-332-00	ELECT	47MF	20%	25V
C501	1-123-369-00	ELECT	4.7MF	20%	63V
C502	1-123-318-00	ELECT	33MF	20%	16V
C503	1-161-494-00	CERAMIC	0.022MF	30%	25V
C504	1-123-356-00	ELECT	10MF	20%	50V
C505	1-123-308-00	ELECT	220MF	20%	10V
C506	1-123-369-00	ELECT	4.7MF	20%	63V
C507	1-123-380-00	ELECT	1MF	20%	100V
C508	1-161-494-00	CERAMIC	0.022MF	30%	25V
C601	1-123-356-00	ELECT	10MF	20%	50V
C602	1-108-579-00	MYLAR	0.01MF	5%	50V
C603	1-161-271-00	CERAMIC	100PF	5%	50V
C604	1-102-973-00	CERAMIC	100PF	5%	50V
C605	1-102-973-00	CERAMIC	100PF	5%	50V
CNJ1	1-526-574-00	(US,Canadian,E)...OUTLET, AC			(3 GANG)
CNJ1	1-526-694-00	(AEP).....OUTLET, AC			
CNJ2	1-526-694-00	(AEP).....OUTLET, AC			
CNJ3	1-526-694-00	(AEP).....OUTLET, AC			
CNJ101	1-507-909-11	JACK, PIN 4P			
CNJ102	1-507-909-11	JACK, PIN 4P			
CNJ103	1-507-909-11	JACK, PIN 4P			
CNJ104	1-507-909-11	JACK, PIN 4P			
CNJ105	1-507-909-11	JACK, PIN 4P			
CNJ106	1-507-909-11	JACK, PIN 4P			
CNJ151	1-507-909-11	JACK, PIN 4P			
CNJ152	1-507-909-11	JACK, PIN 4P			
CNJ153	1-507-909-11	JACK, PIN 4P			
CNJ154	1-507-909-11	JACK, PIN 4P			
CNJ155	1-507-909-11	JACK, PIN 4P			
CNJ156	1-507-909-11	JACK, PIN 4P			

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CAPACITORS:

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

COILS

- MMH : mH, UH : μ H

SEMICONDUCTORS

- In each case, U : μ , for example:
UA...: μ A..., UPA...: μ PA..., UPC...: μ PC,
UPD...: μ PD...

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

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D201	8-719-936-05	DIODE EQA01-05R
D401	8-719-230-24	DIODE 30DL4
D402	8-719-230-24	DIODE 30DL4
D403	8-719-230-24	DIODE 30DL4
D404	8-719-230-24	DIODE 30DL4
D405	8-719-910-71	DIODE HZ7A1L
D406	8-719-511-20	DIODE S1VB20
D407	8-719-910-13	DIODE HZ11A3L
D408	8-719-910-42	DIODE HZ24-2L
D409	8-719-910-71	DIODE HZ7A1L
D501	8-719-200-02	DIODE 10E2
D502	8-719-107-94	DIODE 1SS202-1
D503	8-719-107-94	DIODE 1SS202-1
D504	8-719-107-94	DIODE 1SS202-1
D505	8-719-107-94	DIODE 1SS202-1
D506	8-719-107-94	DIODE 1SS202-1
D601	8-719-107-94	DIODE 1SS202-1
D602	8-719-107-94	DIODE 1SS202-1
D603	8-719-107-94	DIODE 1SS202-1
D604	8-719-107-94	DIODE 1SS202-1
D605	8-719-107-94	DIODE 1SS202-1
D606	8-719-107-94	DIODE 1SS202-1
D607	8-719-107-94	DIODE 1SS202-1
D608	8-719-107-94	DIODE 1SS202-1
D609	8-719-107-94	DIODE 1SS202-1
D610	8-719-107-94	DIODE 1SS202-1
D611	8-719-107-94	DIODE 1SS202-1
D612	8-719-107-94	DIODE 1SS202-1
D613	8-719-107-94	DIODE 1SS202-1
D614	8-719-107-94	DIODE 1SS202-1
D615	8-719-107-94	DIODE 1SS202-1
D616	8-719-107-94	DIODE 1SS202-1
D617	8-719-107-94	DIODE 1SS202-1
F1	△.1-532-203-00	(AEP,UK,E)...FUSE, TIME-LAG 2A
F2	△.1-532-203-00	(AEP,E).....FUSE, TIME-LAG 2A
F2	△.1-532-349-XX	(US,Canadian)...FUSE 4A
FL601	1-519-283-00	INDICATOR TUBE, FLUORESCENT
IC101	8-759-602-02	IC M5219P
IC201	8-759-601-02	IC M5218P
IC202	8-757-890-00	IC CX789
IC251	8-759-601-02	IC M5218P
IC301	△.8-749-940-36	IC STK4036X
IC351	△.8-749-940-36	IC STK4036X
IC501	8-759-101-23	IC UPC1237H
IC601	8-759-645-16	IC M54516P

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC602	8-759-990-23	IC TMS1024N2LL
IC603	8-757-611-00	IC CX761A
IC604	8-759-101-10	IC UPD553C-244
J10	1-507-729-00	JACK, LARGE TYPE
J20	*1-560-039-00	(US,Canadian,AEP,E)...PIN, CONNECTOR
J30	1-507-669-00	JACK
L301	*1-420-872-00	COIL, AIR CORE
L351	*1-420-872-00	COIL, AIR CORE
L601	1-407-169-XX	MICRO INDUCTOR 100UH
PL601	1-518-518-41	LAMP, PILOT
PL602	1-518-518-41	LAMP, PILOT
PL603	1-518-518-41	LAMP, PILOT
PL604	1-518-518-41	LAMP, PILOT
PL605	1-518-518-41	LAMP, PILOT
Q401	8-729-180-93	TRANSISTOR 2SD809
Q402	8-729-224-61	TRANSISTOR 2SK246-Y
Q403	8-729-178-54	TRANSISTOR 2SC2785
Q404	8-729-178-54	TRANSISTOR 2SC2785
Q405	8-729-173-13	TRANSISTOR 2SB731
Q406	8-729-224-61	TRANSISTOR 2SK246-Y
Q407	8-729-117-54	TRANSISTOR 2SA1175
Q408	8-729-117-54	TRANSISTOR 2SA1175
Q409	8-729-382-63	TRANSISTOR 2SC1826-Y
Q410	8-729-850-73	TRANSISTOR 2SB507HP-E
Q501	8-729-178-54	TRANSISTOR 2SC2785
Q502	8-729-178-54	TRANSISTOR 2SC2785
Q503	8-729-178-54	TRANSISTOR 2SC2785
Q504	8-729-178-54	TRANSISTOR 2SC2785
Q505	8-729-117-54	TRANSISTOR 2SA1175
Q506	8-729-178-54	TRANSISTOR 2SC2785
Q507	8-729-117-54	TRANSISTOR 2SA1175
Q508	8-729-178-54	TRANSISTOR 2SC2785
Q509	8-729-309-08	TRANSISTOR 2SC1890A
Q510	8-729-309-08	TRANSISTOR 2SC1890A
Q601	8-729-906-01	TRANSISTOR 2SC2060-P
Q602	8-729-178-54	TRANSISTOR 2SC2785
Q603	8-729-178-54	TRANSISTOR 2SC2785
Q604	8-729-117-54	TRANSISTOR 2SA1175
Q605	8-729-117-54	TRANSISTOR 2SA1175
R101	1-247-119-00	(G-AEP)...CARBON 330 5% 1/4W
R102	1-247-179-00	CARBON 100K 5% 1/4W
R103	1-247-119-00	(US,Canadian,AEP,UK,E)...CARBON 330 5% 1/4W
R103	1-247-133-00	(G-AEP)...CARBON 1.2K 5% 1/4W
R104	1-247-179-00	CARBON 100K 5% 1/4W
R105	1-247-129-00	CARBON 820 5% 1/4W

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SEMICONDUCTORS

- In each case, U : μ , for example:
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ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R106	1-246-539-00	CARBON	560K	5%	1/4W	
R107	1-247-171-00	CARBON	47K	5%	1/4W	
R108	1-247-115-00	CARBON	220	5%	1/4W	
R109	1-247-179-00	CARBON	100K	5%	1/4W	
R110	1-247-133-00	CARBON	1.2K	5%	1/4W	
R111	1-247-133-00	CARBON	1.2K	5%	1/4W	
R112	1-247-123-00	(G-AEP)...CARBON	470	5%	1/4W	
R113	1-247-133-00	CARBON	1.2K	5%	1/4W	
R114	1-247-133-00	CARBON	1.2K	5%	1/4W	
R115	1-247-133-00	CARBON	1.2K	5%	1/4W	
R201	1-246-545-00	CARBON	1M	5%	1/4W	
R202	1-247-136-00	CARBON	1.6K	5%	1/4W	
R203	1-247-131-00	CARBON	1K	5%	1/4W	
R204	1-247-157-00	CARBON	12K	5%	1/4W	
R205	1-246-529-00	CARBON	220K	5%	1/4W	
R206	1-246-545-00	CARBON	1M	5%	1/4W	
R207	1-246-539-00	CARBON	560K	5%	1/4W	
R208	1-246-545-00	CARBON	1M	5%	1/4W	
R209	1-247-250-00	CARBON	2.7K	5%	1/2W	
R210	1-247-163-00	CARBON	22K	5%	1/4W	
R211	1-247-147-00	CARBON	4.7K	5%	1/4W	
R212	1-247-155-00	CARBON	10K	5%	1/4W	
R213	1-247-147-00	CARBON	4.7K	5%	1/4W	
R214	1-247-163-00	CARBON	22K	5%	1/4W	
R215	1-247-147-00	CARBON	4.7K	5%	1/4W	
R301	1-247-131-00	CARBON	1K	5%	1/4W	
R302	1-247-179-00	CARBON	100K	5%	1/4W	
R303	1-247-149-00	CARBON	5.6K	5%	1/4W	
R304	1-247-155-00	CARBON	10K	5%	1/4W	
R305	1-247-117-00	CARBON	270	5%	1/4W	
R306	1-247-107-00	CARBON	100	5%	1/4W	F
R307	1-217-568-00	METAL PLATE	0.22	5%	2W	
R308	1-247-125-00	CARBON	560	5%	1/4W	F
R309	1-247-157-00	CARBON	12K	5%	1/4W	
R310	1-247-159-00	CARBON	15K	5%	1/4W	
R311	1-247-179-00	CARBON	100K	5%	1/4W	
R312	1-247-188-00	CARBON	4.7	5%	1/2W	
R313	1-247-171-00	CARBON	47K	5%	1/4W	
R314	1-247-192-00	CARBON	10	5%	1/2W	F
R315	1-247-192-00	(G-AEP)...CARBON	10	5%	1/2W	
R316	1-247-192-00	(G-AEP)...CARBON	10	5%	1/2W	
R317	1-213-139-00	METAL OXIDE	470	5%	1W	F
R401	1-206-658-00	(US,Canadian)...METAL OXIDE	560	5%	2W	F
R401	1-206-719-00	(AEP,UK,E).....METAL OXIDE	560	5%	3W	F
R402	1-206-658-00	(US,Canadian)...METAL OXIDE	560	5%	2W	F
R402	1-206-719-00	(AEP,UK,E).....METAL OXIDE	560	5%	3W	F

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R403	1-247-131-00	CARBON	1K	5%	1/4W	
R404	1-247-160-00	CARBON	16K	5%	1/4W	
R405	1-247-161-00	CARBON	18K	5%	1/4W	
R406	1-247-131-00	CARBON	1K	5%	1/4W	
R407	1-247-153-00	CARBON	8.2K	5%	1/4W	
R408	1-247-151-00	CARBON	6.8K	5%	1/4W	
R409	1-247-151-00	CARBON	6.8K	5%	1/4W	
R410	1-212-944-00	FUSIBLE	2.7	5%	1/2W	F
R412	1-247-133-00	CARBON	1.2K	5%	1/4W	
R413	1-247-107-00	CARBON	100	5%	1/4W	F
R414	1-247-149-00	CARBON	5.6K	5%	1/4W	
R502	1-247-155-00	CARBON	10K	5%	1/4W	
R503	1-247-133-00	CARBON	1.2K	5%	1/4W	
R504	1-247-163-00	CARBON	22K	5%	1/4W	
R505	1-247-173-00	CARBON	56K	5%	1/4W	
R506	1-247-147-00	CARBON	4.7K	5%	1/4W	
R507	1-247-147-00	CARBON	4.7K	5%	1/4W	
R508	1-247-163-00	CARBON	22K	5%	1/4W	
R509	1-247-163-00	CARBON	22K	5%	1/4W	
R510	1-247-147-00	CARBON	4.7K	5%	1/4W	
R511	1-247-157-00	CARBON	12K	5%	1/4W	
R512	1-247-157-00	CARBON	12K	5%	1/4W	
R513	1-247-157-00	CARBON	12K	5%	1/4W	
R514	1-247-155-00	CARBON	10K	5%	1/4W	
R515	1-247-163-00	CARBON	22K	5%	1/4W	
R516	1-247-167-00	CARBON	33K	5%	1/4W	
R517	1-247-179-00	CARBON	100K	5%	1/4W	
R518	1-247-179-00	CARBON	100K	5%	1/4W	
R519	1-247-128-00	CARBON	750	5%	1/4W	
R520	1-247-163-00	CARBON	22K	5%	1/4W	
R521	1-247-147-00	CARBON	4.7K	5%	1/4W	
R522	1-247-155-00	CARBON	10K	5%	1/4W	
R523	1-206-660-00	METAL OXIDE	680	5%	2W	F
R604	1-247-179-00	CARBON	100K	5%	1/4W	
R605	1-247-107-00	CARBON	100	5%	1/4W	
R606	1-247-163-00	CARBON	22K	5%	1/4W	
R607	1-246-533-00	CARBON	330K	5%	1/4W	
R608	1-247-128-00	CARBON	750	5%	1/4W	
R609	1-246-537-00	CARBON	470K	5%	1/4W	
R610	1-247-161-00	CARBON	18K	5%	1/4W	
R611	1-247-161-00	CARBON	18K	5%	1/4W	
R612	1-247-161-00	CARBON	18K	5%	1/4W	
R613	1-247-131-00	(US,Canadian,AEP,E)...CARBON	1K	5%	1/4W	
R614	1-247-147-00	(US,Canadian,AEP,E)...CARBON	4.7K	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.
- 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 ...

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

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R616	1-247-149-00	(US,Canadian,AEP,E)...CARBON 5.6K 5% 1/4W
R617	1-247-163-00	(US,Canadian,AEP,E)...CARBON 22K 5% 1/4W
R618	1-247-171-00	(US,Canadian,AEP,E)...CARBON 47K 5% 1/4W
R619	1-247-131-00	(US,Canadian,AEP,E)...CARBON 1K 5% 1/4W
R620	1-246-531-00	(US,Canadian,AEP,E)...CARBON 270K 5% 1/4W
R621	1-247-157-00	(US,Canadian,AEP,E)...CARBON 12K 5% 1/4W
RY501	1-515-501-00	RELAY
S1	△.1-553-318-00	(US,Canadian,UK,E)...SWITCH, PUSH (POWER)
S1	△.1-554-685-11	(AEP).....SWITCH, PUSH (POWER)
S2	1-553-761-00	SWITCH, PUSH (2 KEY)
S3	1-553-761-00	SWITCH, PUSH (2 KEY)
S4	1-552-539-00	SWITCH, KEY BOARD
S5	1-552-539-00	SWITCH, KEY BOARD
S6	1-552-539-00	SWITCH, KEY BOARD
S7	1-552-539-00	SWITCH, KEY BOARD
S8	1-552-539-00	SWITCH, KEY BOARD
S9	1-552-539-00	SWITCH, KEY BOARD
S10	1-552-539-00	SWITCH, KEY BOARD
S11	1-552-539-00	SWITCH, KEY BOARD
S12	1-552-539-00	SWITCH, KEY BOARD
S13	1-552-539-00	SWITCH, KEY BOARD
S14	1-552-539-00	SWITCH, KEY BOARD
S15	1-552-539-00	SWITCH, KEY BOARD
S16	1-552-539-00	SWITCH, KEY BOARD
S17	1-552-539-00	SWITCH, KEY BOARD
S18	1-552-539-00	SWITCH, KEY BOARD
S19	1-552-539-00	SWITCH, KEY BOARD
S20	1-552-539-00	SWITCH, KEY BOARD
S21	1-552-539-00	SWITCH, KEY BOARD
S22	1-552-539-00	SWITCH, KEY BOARD
S23	1-552-539-00	SWITCH, KEY BOARD
T1	△.1-447-900-11	(US,Canadian)...TRANSFORMER, POWER
T1	△.1-447-901-11	(E).....TRANSFORMER, POWER
T1	△.1-447-902-11	(AEP,UK).....TRANSFORMER, POWER
TM1	1-536-706-00	TERMINAL BOARD (SP)
VS1	△.1-526-576-51	(E)...SELECTOR, POWER VOLTAGE
X601	1-527-979-00	OSCILLATOR, CERAMIC

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.
- 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: μF .

COILS

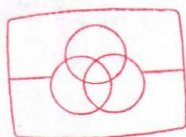
- MMH : mH, UH : μH

SEMICONDUCTORS

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

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

Les composants identifiés par une trame et une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



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