

STR-V55

659
US Model
Canadian Model
AEP Model
UK Model
E Model



WARNING!!

THIS SET USES THE SWITCHING-TYPE POWER-SUPPLY CIRCUIT, WHICH IS DIRECTLY CONNECTED TO THE AC POWER LINE. AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD.

FM-STEREO/FM-AM RECEIVER




SPECIFICATIONS

GENERAL


Power Requirements: 120 V ac, 60 Hz (US, Canadian model)
220 V ac, 50/60 Hz (AEP model)
240 V ac, 50/60 Hz (UK model)
110, 120, 220, 240 V ac adjustable,
50/60 Hz (E model)

Power Consumption: 125 W (US model)
195 W (Canadian model)
240 W (AEP, E model)
300 W (UK model)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS 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 SCHEMATIQUES, LES VUES EXPLOSÉES 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.

AC Outlet: 1 switched, 100 W
(US, Canadian, E model)
1 unswitched, 300 W

Dimensions: US, AEP, UK, E model:
Approx. 430 (w) x 135 (h) x 380 (d) mm
17 (w) x 5 1/4 (h) x 14 7/8 (d) inches
Canadian model:
Approx. 460 (w) x 135 (h) x 380 (d) mm
18 (w) x 5 1/4 (h) x 14 7/8 (d) inches
including projecting parts and controls

Weight: US, AEP, UK, E model:
Approx. 6.8 kg, 15 lb (net)
Approx. 8.0 kg, 17 lb 11 oz (in shipping carton)
Canadian model:
Approx. 7.6 kg, 16 lb 13 oz (net)
Approx. 8.8 kg, 19 lb 7 oz (in shipping carton)

FM TUNER SECTION

Tuning Range: 87.5 - 107.5 MHz (US, Canadian model)
87.5 - 108.0 MHz (AEP, UK, E model)

Antenna Terminals: 300 Ω balanced, 75 Ω unbalanced

- Continued on page 2 -

SONY[®]

SERVICE MANUAL

STR-V55

Intermediate Frequency: 10.7 MHz

AEP, UK model:

	At 40 kHz deviation
Sensitivity:	at 46 dB quieting 18.3 dBf, 4.5 μ V (13 dB) (mono) 38.3 dBf, 45 μ V (33 dB) (stereo)
Usable Sensitivity:	11.2 dBf, 2.0 μ V (6 dB) (IHF) 9.8 dBf, 1.7 μ V (4.5 dB) (S/N 26 dB)
Signal-to-Noise Ratio:	72 dB (mono), 66 dB (stereo)
Harmonic Distortion:	
at 100 Hz	0.1 % (mono), 0.25 % (stereo)
at 1 kHz	0.1 % (mono), 0.2 % (stereo)
at 6 kHz	0.15 % (mono), 0.2 % (stereo)

US, Canadian, E model:

	At 75 kHz deviation
Sensitivity:	at 50 dB quieting 16.1 dBf, 3.5 μ V (10.8 dB) (mono) (US, Canadian model) 18.3 dBf, 4.5 μ V (13 dB) (mono) (E model) 36.1 dBf, 35 μ V (30.8 dB) (stereo) (US, Canadian model) 38.3 dBf, 45 μ V (33 dB) (stereo) (E model)
Usable Sensitivity:	10.3 dBf, 1.8 μ V (5.1 dB) (IHF) (US, Canadian model) 11.2 dBf, 2.0 μ V (6 dB) (IHF) (E model)
Signal-to-Noise Ratio:	75 dB (mono), 70 dB (stereo) (US, Canadian model) 77 dB (mono), 71 dB (stereo) (E model)
Harmonic Distortion:	
at 100 Hz	0.1 % (mono), 0.2 % (stereo)
at 1 kHz	0.1 % (mono), 0.15 % (stereo)
at 6 kHz	0.15 % (mono), 0.2 % (stereo)

Separation: 40 dB at 100 Hz, 50 dB at 1 kHz, 35 dB at 10 kHz (AEP, UK, E model)
40 dB at 100 Hz, 45 dB at 1 kHz, 35 dB at 10 kHz (US, Canadian model)

Frequency Response: 40 Hz – 12.5 kHz \pm 0.3 dB (DIN)
30 Hz – 15 kHz $\begin{matrix} +0.5 \\ -1.5 \end{matrix}$ dB

Selectivity: 80 dB (300 kHz) (AEP, UK model)
80 dB (400 kHz) (US, Canadian model)
85 dB (400 kHz) (E model)

Capture Ratio: 1.0 dB (US, Canadian, E model)
1.5 dB (AEP, UK, E model)

AM Suppression Ratio: 60 dB (AEP, UK, E model)
50 dB (US, Canadian model)

Image Response Ratio: 85 dB
IF Response Ratio: 100 dB

Spurious Response Ratio: 95 dB

RF Intermodulation: 78 dB (IHF), 93 dB (2.4 MHz) (AEP, UK, E model)
65 dB (US, Canadian model)

Sub-carrier Product Ratio: 55 dB (AEP, UK, E model)
40 dB (US, Canadian model)

Muting Threshold: Approx. 25.2 dBf, 10 μ V (20 dB) (AEP, UK, E model)

Approx. 20 dBf, 5.5 μ V (14.8 dB) (US, Canadian model)

Auto Tuning Level: LOW: 30 dBf, MID: 40 dBf, HIGH: 55 dBf (AEP, UK, E model)
LOW: 25 dBf, MID: 40 dBf, HIGH: 60 dBf (US, Canadian model)

AM TUNER SECTION

Tuning Range: AEP, UK model:
522 kHz – 1602 kHz (9 kHz steps)

US, Canadian, E model:
522 kHz – 1602 kHz (9 kHz steps)
530 kHz – 1610 kHz (10 kHz steps)

Antenna: Ferrite-rod antenna, External antenna terminal

Intermediate Frequency: 450 kHz

Usable Sensitivity: 250 μ V/m (48 dB/m), ferrite-rod antenna (AEP, UK, E model)
300 μ V/m (49.5 dB/m) (US, Canadian model)
100 μ V (40 dB), external antenna, at 1,000 kHz

Signal-to-Noise Ratio: 52 dB at 50 mV/m (34 dB/m) (AEP, UK, E model)
50 dB at 50 mV/m (34 dB/m) (US, Canadian model)

Harmonic Distortion: 0.5 % at 50 mV/m (34 dB/m), 400 Hz

Selectivity: 40 dB at 9 kHz (AEP, UK, E model)
40 dB at 10 kHz (US, Canadian model)

AMPLIFIER SECTION

Continuous RMS Power Output: At 1 kHz
55 + 55 W (8 Ω)
At 20 Hz – 20 kHz
55 + 55 W (8 Ω)
According to DIN 45500
55 + 55 W (8 Ω)

Power Bandwidth (IHF): 5 Hz – 35 kHz (AEP, UK, E model)

Total Harmonic Distortion: US, Canadian model:
Less than 0.006 % at 2 V output, (20 Hz – 20 kHz)
AEP, UK, E model:
Less than 0.02 % at rated output

Intermodulation (IM) Distortion: Less than 0.02 % from 250 mV to rated output (US, Canadian model)
(60 Hz : 7 kHz = 4 : 1)
Less than 0.02 % at rated output (AEP, UK, E model)

Frequency Response: Power Amp Section:
dc – 40 kHz $\begin{matrix} +0 \\ -1 \end{matrix}$ dB
Preamp Section:
PHONO: RiAA equalization curve \pm 0.5 dB
AUX, TAPE1, 2: 5 Hz – 200 kHz $\begin{matrix} +0 \\ -1 \end{matrix}$ dB

SERVICING NOTES

INSTALLATION PRECAUTION

The epoxy resin used in a light-emitting diode is a kind of thermosetting resin, but as a light-emitting must let the light pass through, its heat resistance cannot be raised by mixing silica or glass fiber.

Thus, the resin used in the light-emitting diodes is usually weak against heat. As the tensile strength is not so strong while it is heated, note the following precautions during soldering.

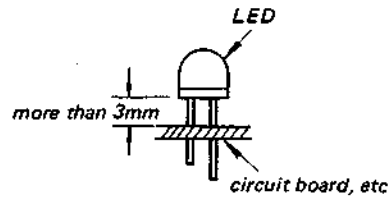


Fig. 1

- 1) Perform the soldering within 5 seconds with a soldering iron below 25W. The clearance between the end of the diode's body and the circuit board should be more than 3 mm ($1/8''$) (Fig. 1).
- 2) When changing the position of the light-emitting diode, do not move it right after soldering, but move it after it naturally cools off.
- 3) When bending the lead terminals, be sure to bend the point 2 mm ($3/32''$) farther from the end of the diode's body. At this time, fix the foot of the terminal with a round nose plier and be sure that no force is applied to the diode's body. If not, a crack may occur (Fig. 2).



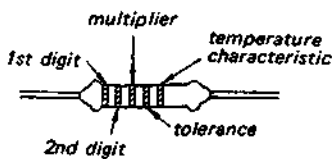
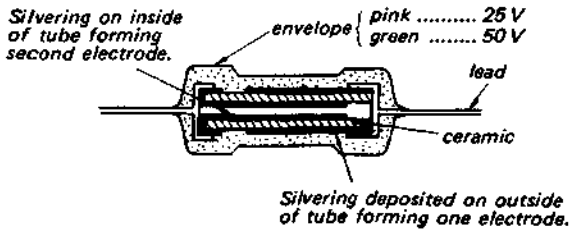
Fig. 2

THE CERAMIC CAPACITORS

This set uses tube-type ceramic capacitors whose shape is identical with the carbon resistors, and be careful not to use resistors in place of capacitors in repairing.

Disc-type ceramic capacitors can be used for replacing those originally used in the set.

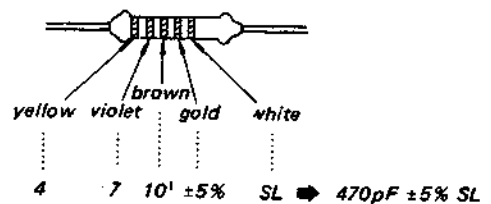
Two kinds of drilled holes are provided in some patterns for mounting the tube-type and disc-type ceramic capacitors. Use appropriate holes where applicable.



COLOR CODE (in pF)

Color	1st or 2nd Digit	Multiplier	Tolerance	Temperature characteristic
brown	1	10^1		Y
red	2	10^2		D
orange	3	10^3		
yellow	4	10^4		RH
green	5			
blue	6			
violet	7			UJ
gray	8		$\pm 30\%$	X
white	9			SL
black	0	10^0	$\pm 20\%$	CH
gold		10^{-1}	$\pm 5\%$	V
silver		10^{-2}	$\pm 10\%$	B

Example:



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Damping Factor: 50 at 1 kHz, 8 Ω
Dynamic Headroom: 0.5 dB
Residual Noise: Less than 0.23 mV at 8 Ω
 (AEP, UK, E model)

Inputs:

	Sensitivity	Impedance	S/N	Weighting network
PHONO MM	2.5 mV (-50 dB)	50 kΩ	85 dB 78 dB*	A
PHONO MC	0.25 mV (-70 dB)	100 Ω	70 dB 68 dB*	A
AUX, TAPE 1, 2	150 mV (-13.5 dB)	50 kΩ	98 dB 86 dB*	A
POWER IN (US, Canadian model)	1.0 V (2.95 dB)	50 kΩ	116 dB	A

* '78 IHF, Measured with rated output power into 8 Ω loads (both channels driven simultaneously) at 1 kHz

Outputs:

REC OUT 1, 2	Voltage 150 mV Impedance 10 kΩ
HEADPHONES	Accepts low impedance headphones
SPEAKERS	8 - 16 Ω speakers are suitable
PRE OUT (US, Canadian model)	Voltage 1.5 V (5.5 dB) Impedance 2 kΩ

Measured with rated input, FM 30% modulation

Frequency Response: PHONO: RIAA equalization curve
 (US, Canadian model) ± 0.5 dB

AUX, TAPE 1, 2: 5 Hz - 50 kHz
 +0 dB
 -1 dB

Tone Controls: BASS: ± 10 dB at 50 Hz
 TREBLE: ± 10 dB at 20 kHz

Loudness Control: +10 dB at 50 Hz,
 (att. 30dB) +3 dB at 10 kHz

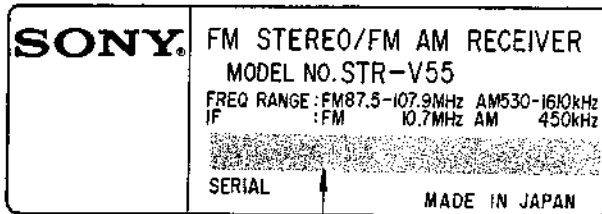
Filter: LOW: 12 dB/octave attenuation
 below 15 Hz

Audio Muting: Att. 20 dB

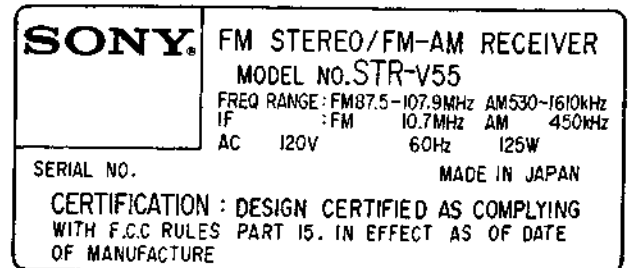
MODEL IDENTIFICATION

— Specification Label —

Canadian, E model

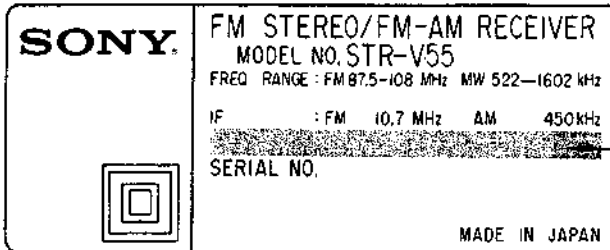


US model



CANADIAN Model: AC 120V~ 60Hz 195W
E Model: AC 110, 120, 220, 240V~ 50/60Hz 240W

AEP, UK model

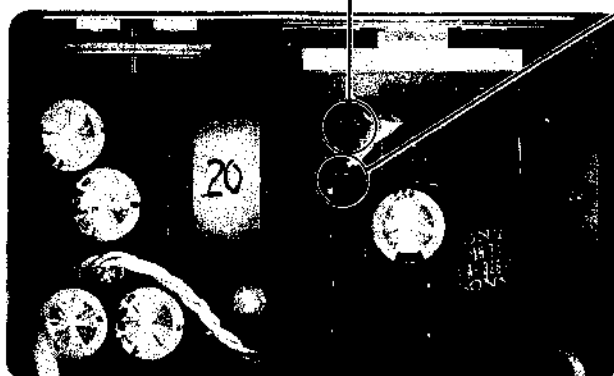
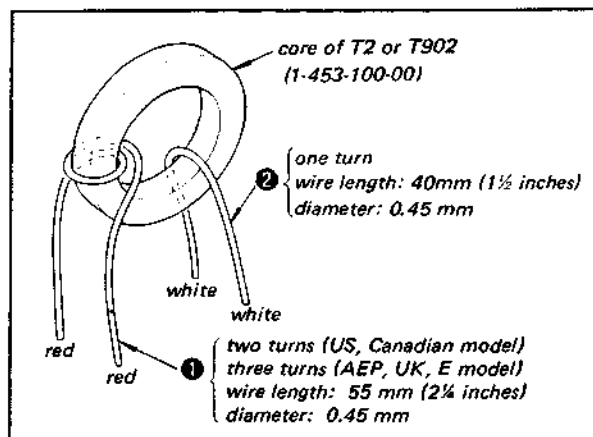
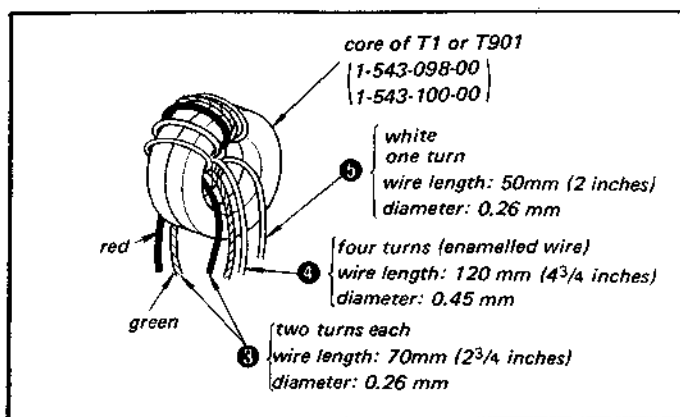


AEP Model: AC 220V~ 50/60Hz 240W
UK Model: AC 240V~ 50/60Hz 300W

REPLACEMENT OF THE TRANSFORMES IN THE INVERTER CIRCUIT

The lead wire arrangement for each of T1 (US, Canadian model) or T901 (AEP, UK, E model) and T2 (US, Canadian model) or T902 (AEP, UK, E model) in the inverter circuit are shown below.

As the repair parts, T1 (US, Canadian model) or T901 (AEP, UK, E model) and T2 (US, Canadian model) or T902 (AEP, UK, E model) are formed by only iron core. Thus, if the coils are defective, arrange a new transformers as shown below. Note that the lead lengths must be exact. Also wind the coil carefully.



T1 or T901

T2 or T902

(US, Canadian model)

Handling Precautions for MOS ICs (IC402, IC405, IC406) (US, Canadian model) (IC401, IC405) (AEP, UK, E model)

Generally, the insulation resistance of the oxide layer in MOS IC structures is very high, and the oxide layer is very thin. Because of this, it is possible that the static voltages usually present on clothes and the human body will be enough to generate a potential difference across the insulator, high enough to cause a breakdown of the insulating layer.

The following precautions should be taken while handling these ICs.

(Particular care should be taken under conditions of low humidity.)

Precautions in Replacing MOS ICs

1. Store new ICs by inserting them into a urethane-polyester cushion (which is somewhat conductive), or wrapping it in aluminum foil, so that all the pins are at the same potential. (The ICs should be stored in that manner until mounted on the circuit board.)

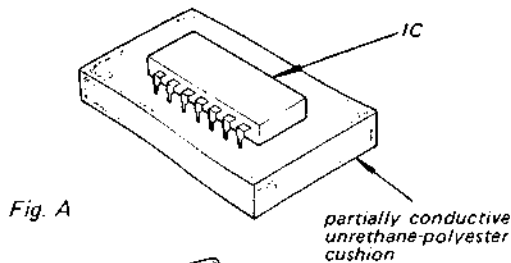


Fig. A

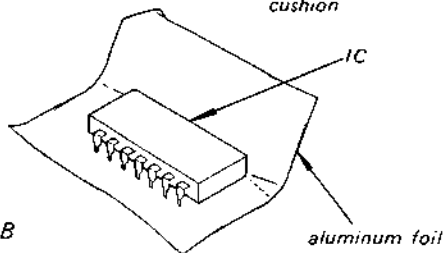


Fig. B

2. Check the soldering iron for possible power-line leakage current. Make sure that there is no leakage path by connecting an ohmmeter to the tip of the soldering iron and the plug as shown in Fig. C. If there is a leakage path, use some other soldering iron.

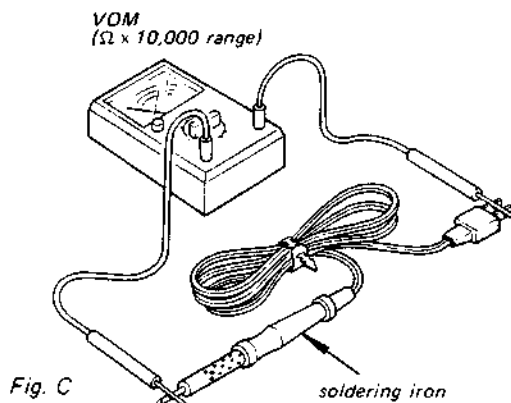


Fig. C

3. Equalize any potential difference between the clothes, the tools in use, the work bench, the set being worked on, and the packaged IC by touching them all in succession with the hands or a conductive wire or tool.
4. The following are effective methods for handling ICs that remove the potential difference across the oxide layer.
 - Use a paper clip modified by soldering in a wire braid insert.

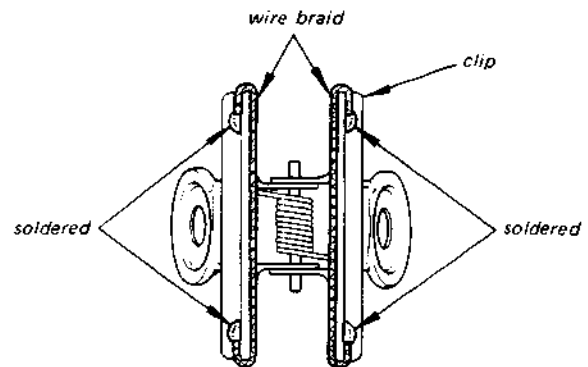


Fig. D

Make sure that there is no solder on the inside.

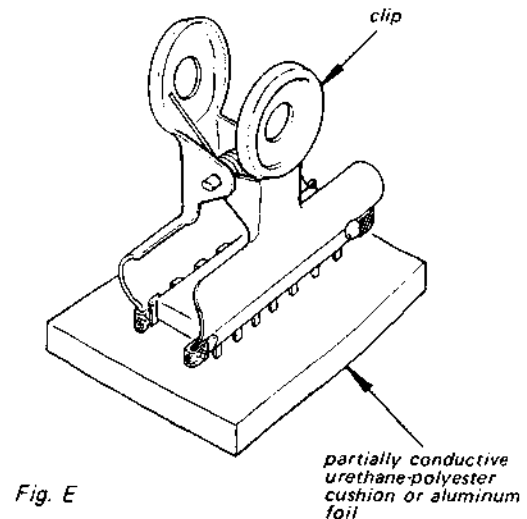


Fig. E

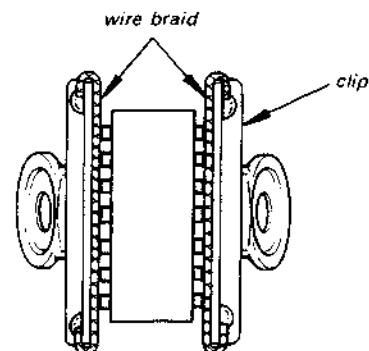


Fig. F

Make sure that all the pins are in contact with the wire braid (all the pins will then be at the same potential.).

- Take a short length of fine bare wire and wind it around the IC so that it shorts all the pins of the IC, while it is still in the urethane-polyester cushion or aluminum foil. This ensures that all the pins are at the same potential.

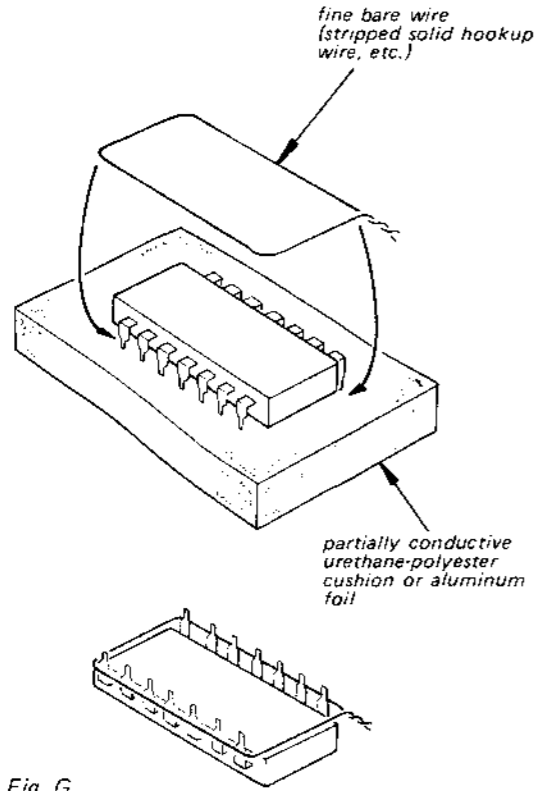


Fig. G

- When it is necessary to handle the IC with the fingers, do not touch any pin, and hold the IC at the ends of its plastic-package case as shown in Fig. H.

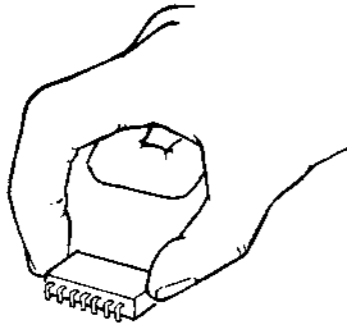


Fig. H

5. Method of Mounting

Insert the IC while holding it with the modified clip, and solder all the pins with the clip still shorting the pins. (Similarly, solder all the pins while the bare shorting wire is still wound around them.) Remove the clip or the bare shorting wire only after all the pins have been soldered.

Precaution while Checking C-MOS ICs

The C-MOS ICs (Complementary MOS) are MOS ICs that have their output sections made up of N-channel and P-channel push-pull stages to increase their speed of operation. If the output terminal of these ICs comes into contact with B+ or B- voltage, then the FET which is ON at that time will either become shorted or open.

This is valid for all the output sections that are connected together by the interconnections. Even the circuits that are physically separated (and not on the same board) can be destroyed simultaneously.

Example:

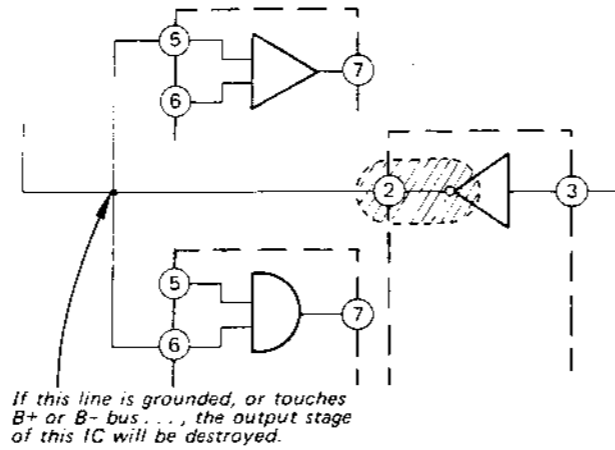


Fig. I

SECTION 1
OUTLINE

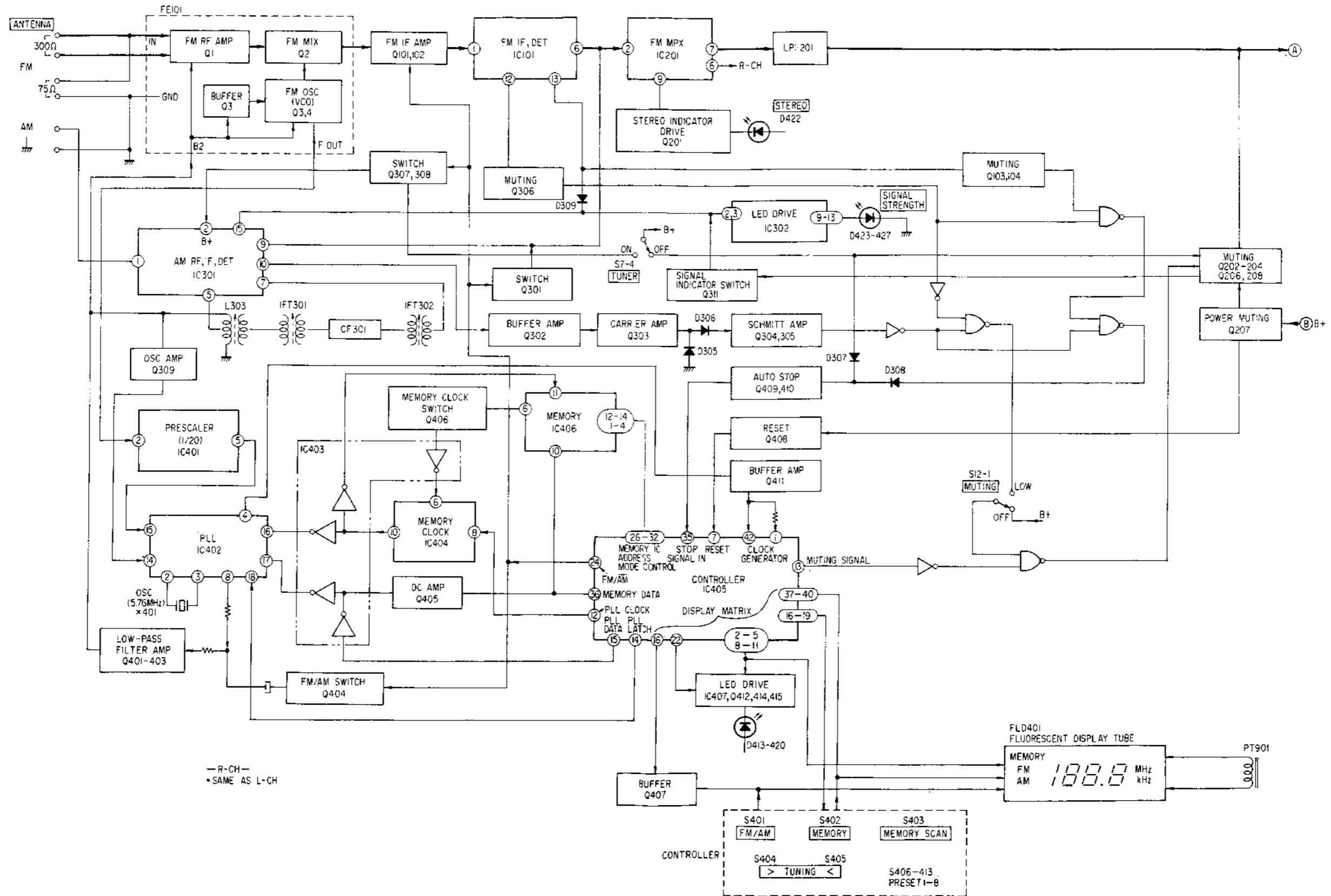
US model
Canadian model

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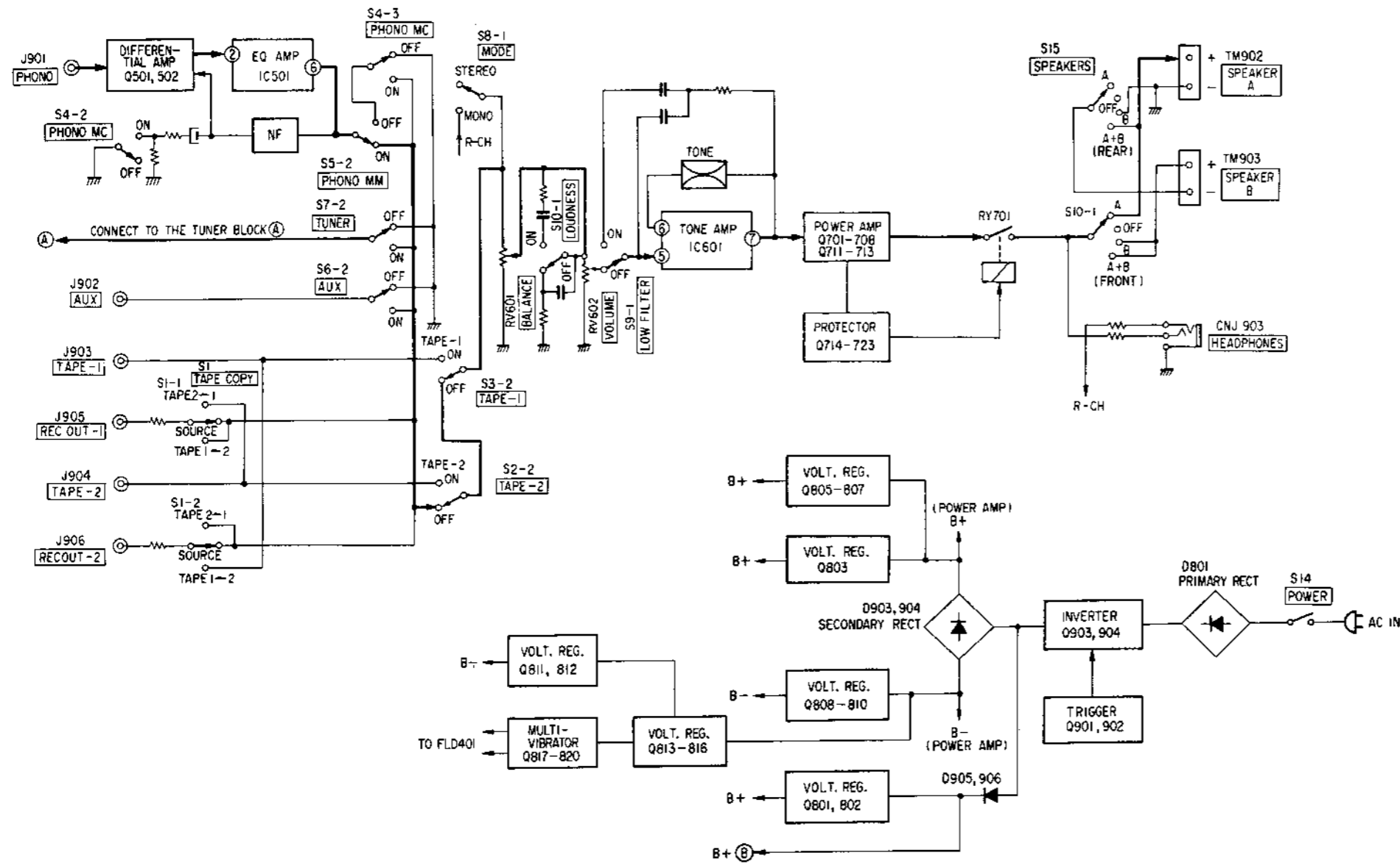
US model
Canadian model

1-1. BLOCK DIAGRAMS

(1) Tuner Section (US, Canadian model)



(2) Amp Section (US, Canadian model)

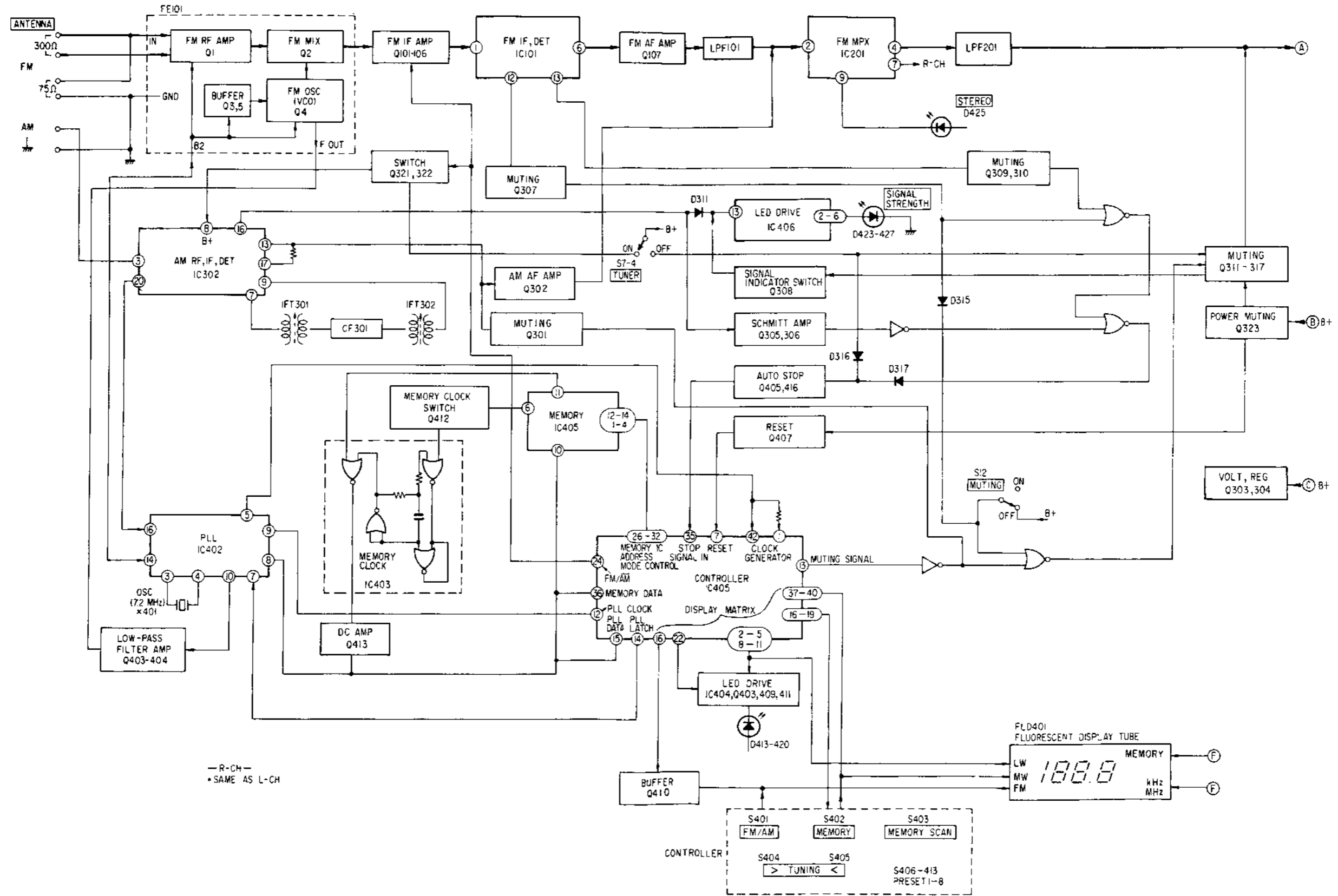


AEP model
UK model
E model

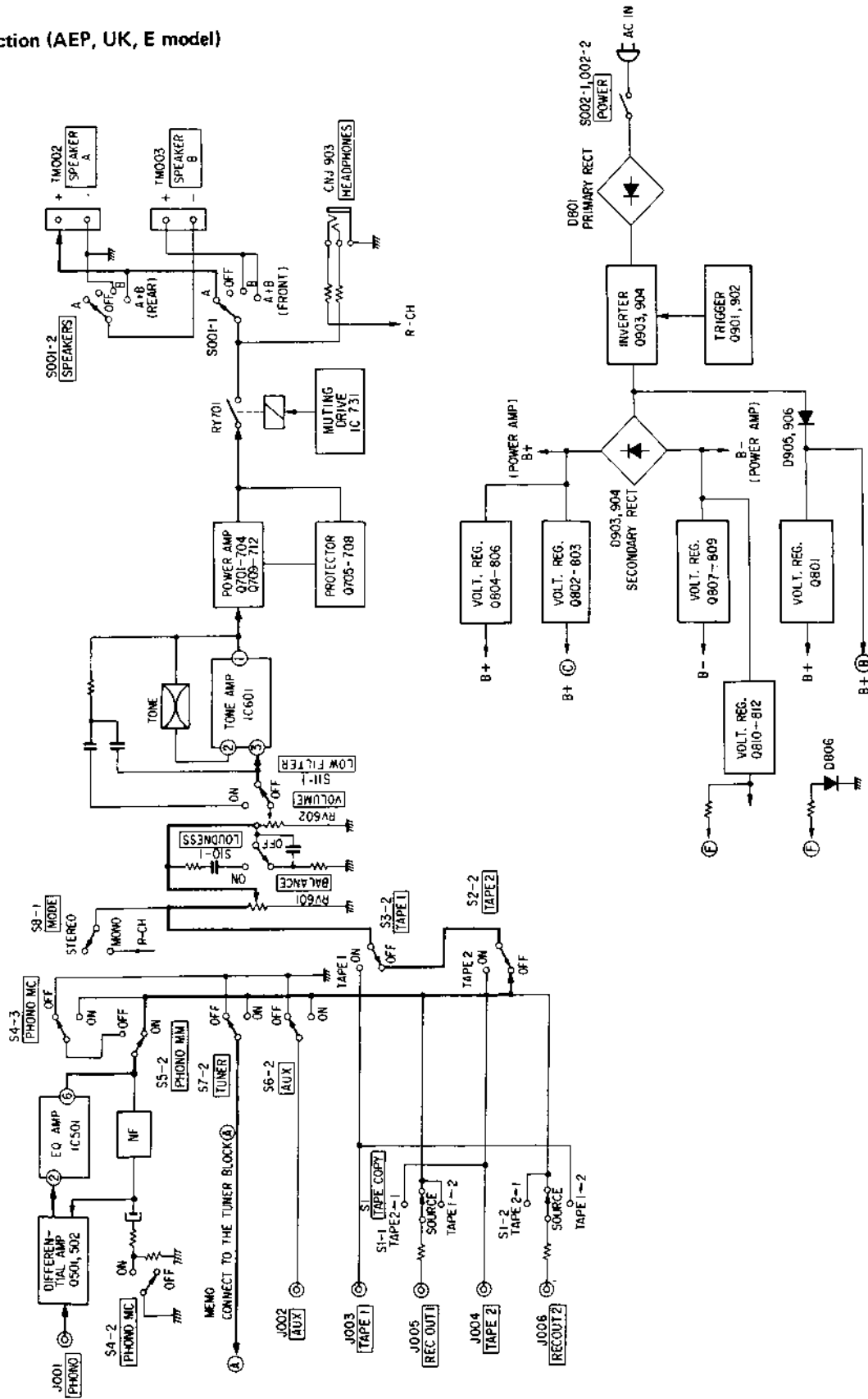
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AEP model
UK model
E model

(3) Tuner Section (AEP, UK, E model)



(4) Amp Section (AEP, UK, E model)



1-2. CIRCUIT DESCRIPTION

In the power supply section of conventional audio equipment, ac input power is usually changed in voltage by a transformer and is rectified to obtain a dc voltage. The disadvantages of this are as follows;

1. Voltage regulation is poor.
2. Hum in the output results if large filter are not used.
3. High-power output can not be obtained without a very large transformer.

To eliminate these problems, the pulse-locked power supply is used in this set. In the power supply, after a dc voltage is obtained by rectifying the ac input power, a 20kHz pulse signal is generated in the inverter. The pulse signal is converted to the desired-voltage signal by a high-frequency transformer which has a small ferrite-core, and is then rectified to produce dc voltages.

Fig. 1 shows the block diagram of the pulse-locked power supply. This power supply has the following advantages;

1. The source impedance can be made smaller so better voltage regulation of less than 7% can be obtained.
2. Square waves as high in frequency as 20kHz are used, so hum does not occur.
3. Efficiency is very high, since the dc resistance of the high-frequency transformer is small and a high-efficiency inverter is used.
4. This power supply consists of small components that result in a very small size and a light weight. This power supply is half the size and less than one quarter the weight of a conventional power supply.

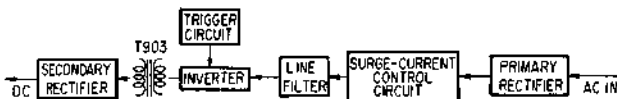


Fig. 1

The following circuit description is based on the AEP, UK and E models. The US and Canadian models are identical to the AEP, UK and E models, and reference numbers are different from the AEP, UK, and E models.

1-2.1. SURGE-CURRENT CONTROL CIRCUIT (See Fig. 2)

Since the pulse-locked power supply directly rectifies ac power input, if S002 (POWER) is set to ON without a surge-current control circuit, a large surge-current charging C804 will flow and damage S002 (POWER).

To prevent this, R802 is added in series with S002 (POWER) to control the rush-current. This resistor is shorted by RY801 after dc voltage appears in the secondary rectifier circuit.

1-2.2. LINE FILTER (See Fig. 2)

To eliminate the high-frequency ripple noise component produced in the inverter, a line filter is installed. The line filter consists of L901, C901 through C904, and C915 through C917. L901 is a bifilar RF choke using a ferrite toroidal core.

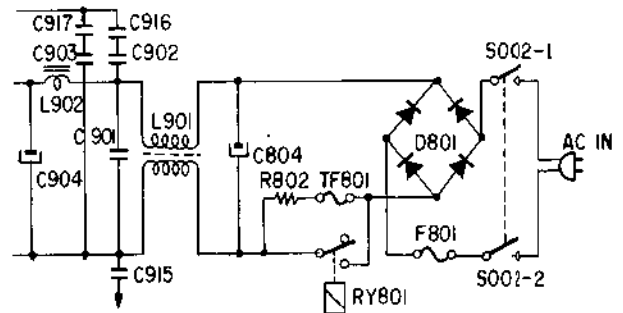


Fig. 2

1-2-3. INVERTER TRIGGER CIRCUIT (See Fig. 3)

Setting switch S002 (POWER) to ON is not sufficient to start the inverter oscillating; a trigger signal is also required for inverter oscillation. The operation is as follows;

1. When S002 (POWER) is set to ON, current ① through R901 charges C908.
2. After switching ON the power, the base-emitter voltage V_{be} of Q901 becomes the voltage V_s across R905 with some delay due to the time constant of R904 and C907. When V_{be} becomes approximately 0.6V, Q901 turns on and so does Q902 accordingly.
3. When both Q901 and Q902 turned on, the charge in C908 discharges through the winding N1 of T901 and R902 (current flow ②), and the inverter starts oscillating. Once the inverter oscillated, a voltage is generated across the winding N2 of T903. This voltage at the winding N2 is rectified by diodes D901 and D902, not making V_{be} a load of winding N1. Thus the inverter maintains a smooth and normal oscillation.

1-2-4. INVERTER CIRCUIT

The inverter consists of two transistors and generates a square-wave signal of about 20kHz.

Fig. 4. shows the principle of the inverter. By turning S1 and S2 on and off alternately, the square-wave signal shown in Fig. 4 is generated at the secondary side of converter transformer T903. In short, dc current is changed to a square-wave signal by switching action.

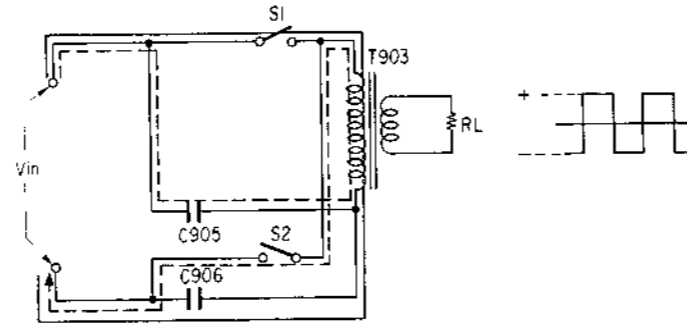


Fig. 4

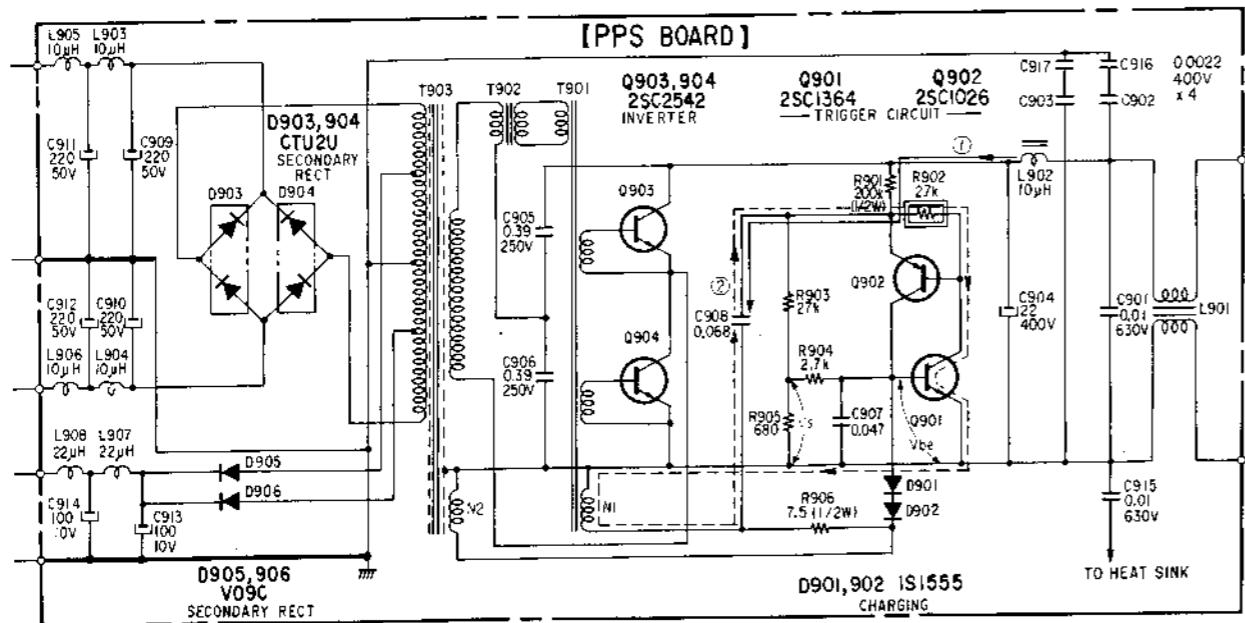


Fig. 3

The details are as follows (See Fig. 5).

1. A trigger pulse signal is generated at the winding N1 by the inverter trigger circuit.
2. Assume that a voltage is generated with which Q903 at the winding N3 turns on and Q904 at the winding N4 turns off with the first trigger pulse.
3. Q903 turned on and the current ① flows through Q903, transformer windings N5 and N6, and C906 from the point ⊕ to ⊖.
4. At the same time, a current is also induced in the winding N7. This current in turn induces an electromotive force at the winding N3 through T901 by current-feedback effect. This induced electromotive force at the winding N3 also acts as a power to further turn Q903 on.
5. On the other hand, the winding N2 is also wound in the transformer T903. So N2 generates a voltage. This voltage is then applied to the winding N1 through R906.
6. The winding N1 is wound in the transformer T901, the voltage in N1, in turn, generates also a voltage in the winding N3 through the voltage-feedback action and this voltage in N3 adds the power for Q903 to further turning on.
7. With these two feedbacks, i.e., both the current and voltage, Q903 sufficiently saturates and it applies power to T903.
8. Now T901 also saturates in due course and it no longer keeps power to turn Q903 on.
9. As soon as Q903 loses the power, it turns off. And when Q903 turned off, a voltage of oppsite

polarity to the initial state (first half cycle) is generated in the winding N2 through the winding N6.

10. This voltage of opposite polarity, built up in N2 increases an electromagnetic flux also in the opposite direction to the initial state, generates a voltage in N4 of a such direction to turn Q904 on.
11. As a result, the current ② flows from the point ⊕ to point ⊖ through C905, transformer windings N6 and N5, and Q904.
12. Once Q904 has turned on, it keeps itself turning on as in the case of the first half cycle of Q903's operation until T901 is saturated by both the current and voltage feedbacks.
13. When T901 thus saturated in the second half cycle, Q904 turns off and Q903, in turn, turns on again and the oscillating operation continues.
14. Thus a square-wave signal is obtained at the secondary winding of T903 as shown in Fig. 5 from the alternating turning on and off operation of Q903 and Q904.

1-2-5. SECONDARY RECTIFIER CIRCUIT (See Fig. 5)

The secondary rectifier circuit is to convert the square-wave signal made in the above-mentioned converter transformer back into dc voltage. This circuit consists of D903 through D906, L903, L905, L908, and C909 as shown in Fig. 6 below. High-speed type diodes are used for the rectifying devices and the square-wave is rectified without a significant rectifying power loss.

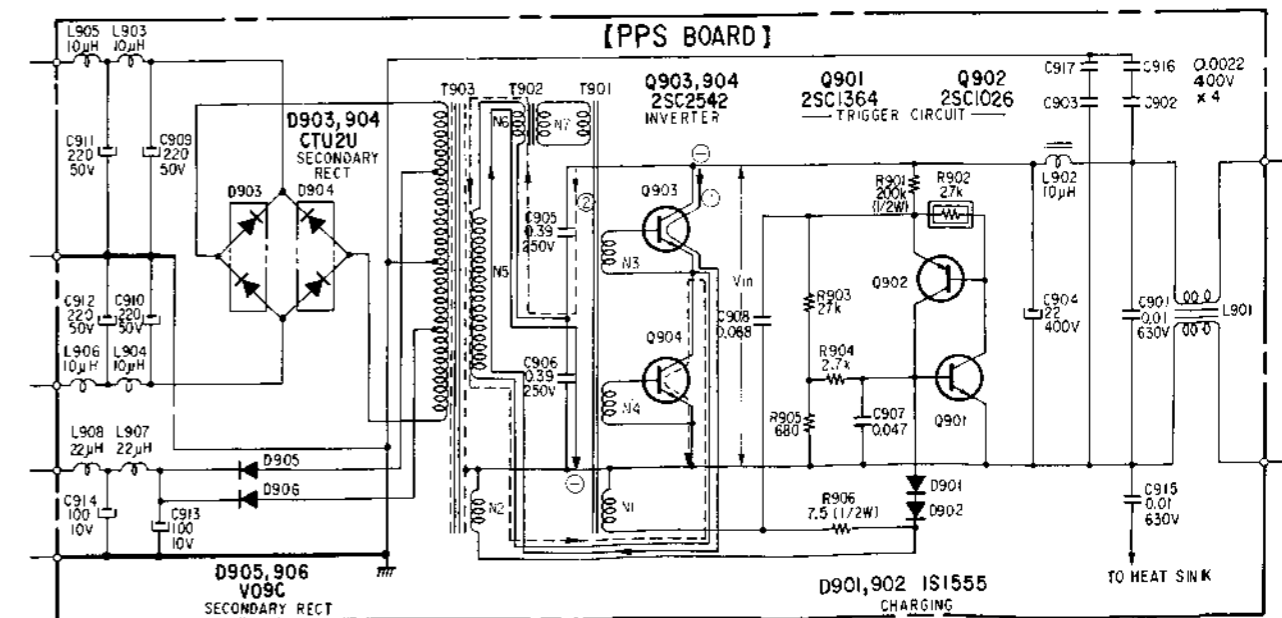


Fig. 5

1-2-6. OUTLINE OF μ PD552C-037 (IC405) (US, Canadian model) or μ PD553C-065 (IC401) (AEP, UK, E model)

This is a four-bit control microcomputer composed of ALU, ROM, RAM, I/O Ports and control circuit all of which are processed in four-bit parallel manner and are included on a small single chip.

P-channel MOS

ROM (1000 x 8-bits)

RAM (64 x 4-bits)

Input Ports

A and B

Input/output Ports

C and D

Output Ports

E, F, G, H and I

four-bits each except for Port I which is three bits

Clock Frequency: 360kHz

Input signal is obtained from terminal 4 (US, Canadian model) or 6 (AEP, UK, E model) of the divider output in PLL μ PD2819C (US, Canadian model) or CX778 (AEP, UK, E model).

42-pin Plastic Dual-in-Line Package

I/O Ports: Table 1

Port	Terminal	Function	
PA ₀	33	AUTO/MANUAL	
PA ₁	34	9kHz/10kHz (US, Canadian model)	
PA ₂	35	Input for AUTO TUNING stop signal	
PA ₃	36	Input for memory IC's data	
PB ₀₋₃	37-40	Refer to Fig. 6 or 7.	
PC ₀₋₃	2-5		
PD ₀₋₃	8-11		
PE ₀₋₃	16-19		
PG ₀	22		
PG ₁	23		Output for switch matrix
PG ₂	24		FM/AM
PG ₃	25		N/A
PE ₀	12		Clock output for PLL memory IC
PE ₁	13		Output for muting pulse
PE ₂	14	Output for PLL	
PE ₃	15	Output for PLL and memory IC	
PH ₀	26	Outputs for memory IC address	
PH ₁	27		
PH ₂	28		
PH ₃	29		
PI ₀	30	C1	
PI ₁	31	C2	
PI ₂	32	C3	
		Outputs for memory IC mode control	

μ PD2819C (IC402) (US, Canadian model)

This is a CMOS LSI for the PLL frequency synthesizer designed for AM and/or FM radio/receiver.

Outline of μ PD2819C:

18-pin molded DIP (dual-in-line package)

Data inputs are only three (3) because the data are put into the IC successively.

Has two input terminals for programmable divider and these terminals are selectable according to the program data (AM/FM).

Has an output (terminal 4) of 360 kHz for the controller.

Refer to the schematic diagram for its block diagram.

Table 2. Function of Terminals:

Terminal	Function
1	5 V power supply
2	5.76 MHz crystal oscillator
3	
4	Output 1 for 360 kHz clock signal
5	90 kHz test terminal 3
6	25 Hz clock signal output 2
7	unlock-detection terminal "1" (high) when PLL is locked, pulsative waveform when PLL is unlocked
8	Output terminal for phase comparator
9	Test terminal 1 for frequency comparison
10	Test terminal 2 for programmable divider's output
11	Input terminal for filter amp
12	Output terminal for filter amp
13	Grounding terminal
14	Input terminal 1 for programmable divider (AM)
15	Input terminal 2 for programmable divider (FM)
16	Shift register clock
17	Shift register data
18	Latch clock

Note: Terminals 16 - 18 are the input terminals for the program to decide the division ratio of the programmable divider, switching of terminals 11 and 12, and to decide the comparison frequency.

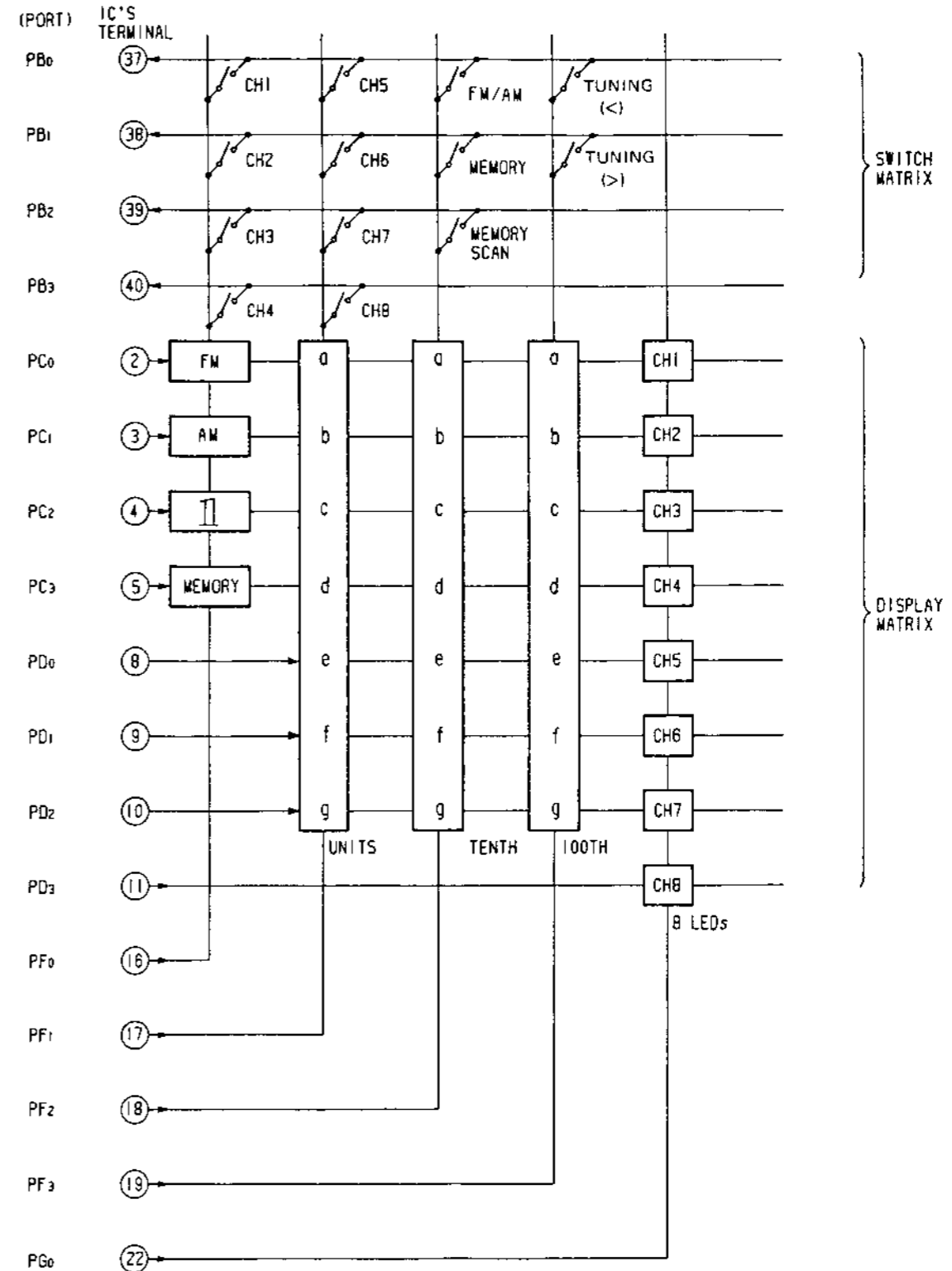


Fig. 6 Switches and Indication Matrix (US, Canadian model)

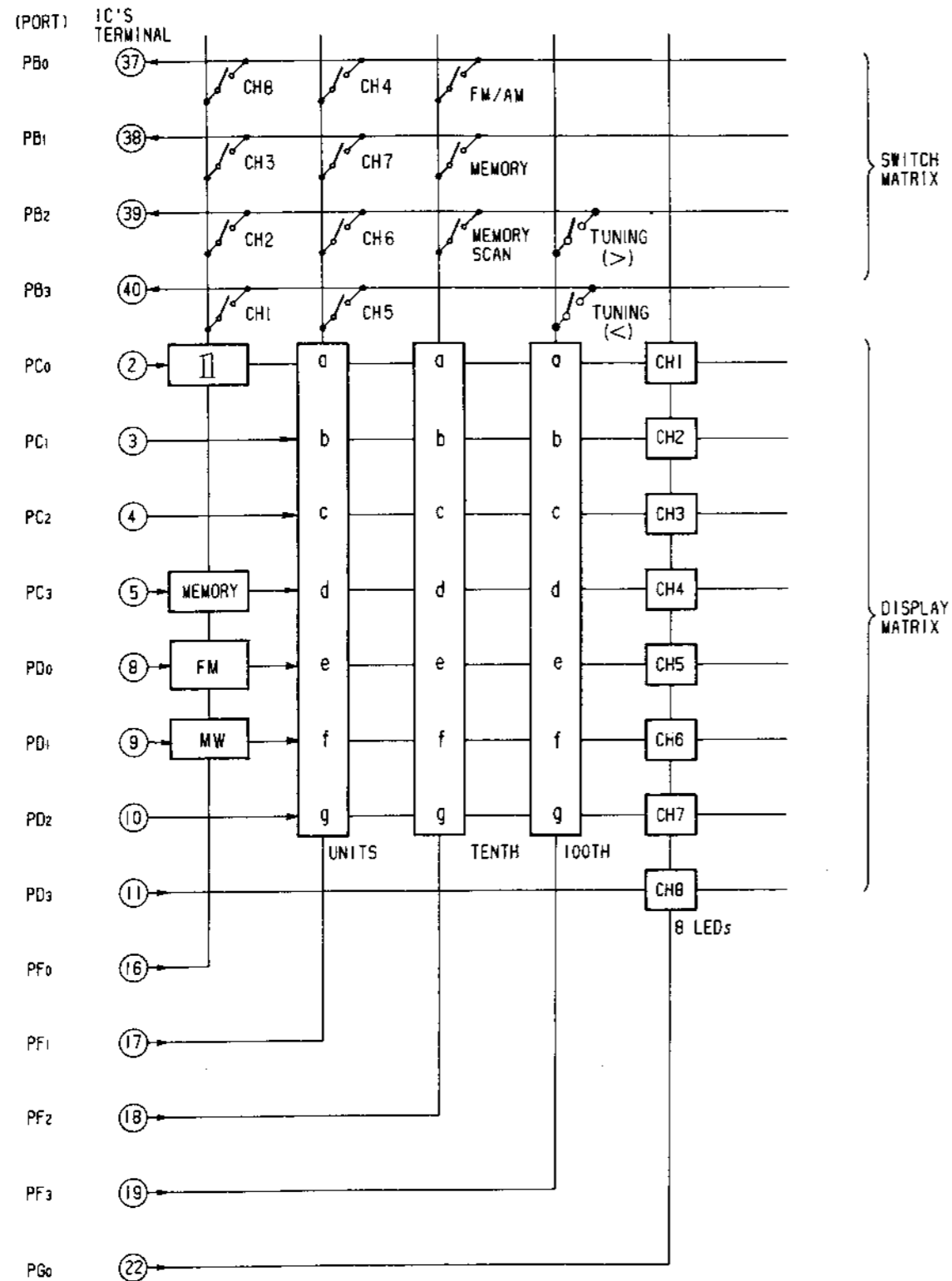


Fig. 7 Switches and Indication Matrix (AEP, UK, E model)

1-2-7. MEMORY IC CX761 (IC406) (US, Canadian model) or CX761A (IC405) (AEP, UK, E model)

Outline of CX761 or CX761A:

- (a) This is a non-volatile memory IC. Has 228 (14 words x 16 bits + 4 bits) non-volatile memory transistors built in, and works for reading, erasure and writing the data word.
- (b) Because of being a non-volatile type memory, this IC maintains the memorized informations for a long time without a battery back-up after the power switch is turned off.
- (c) Word address is done by the BCD inputs.
- (d) Silicon-type P-channel enhancement MNOS IC construction.
- (e) 14-pin molded DIP casing.

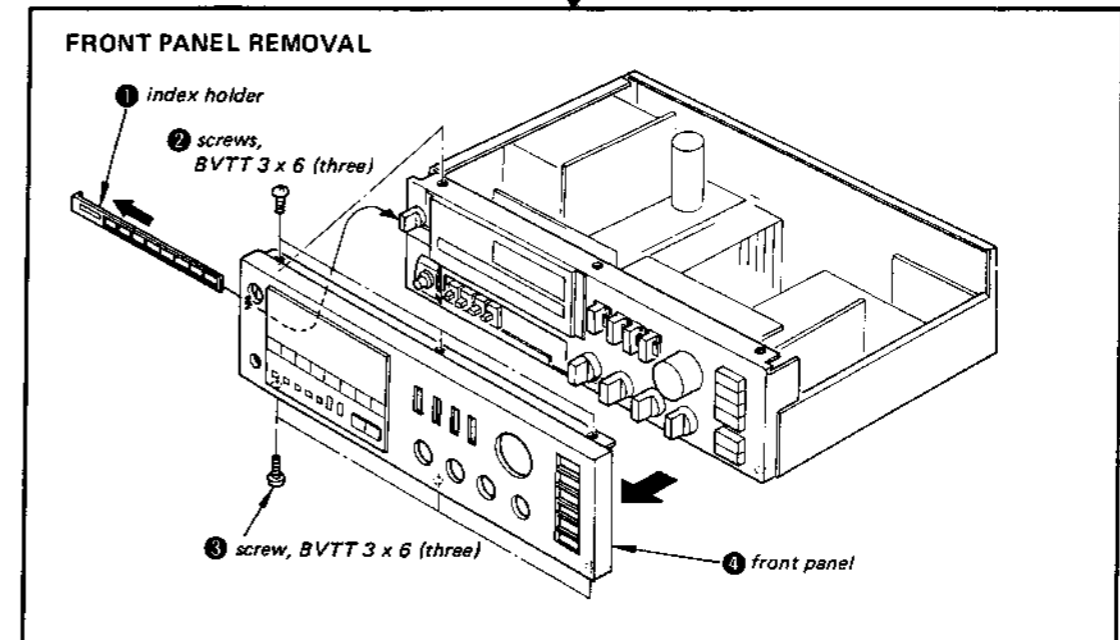
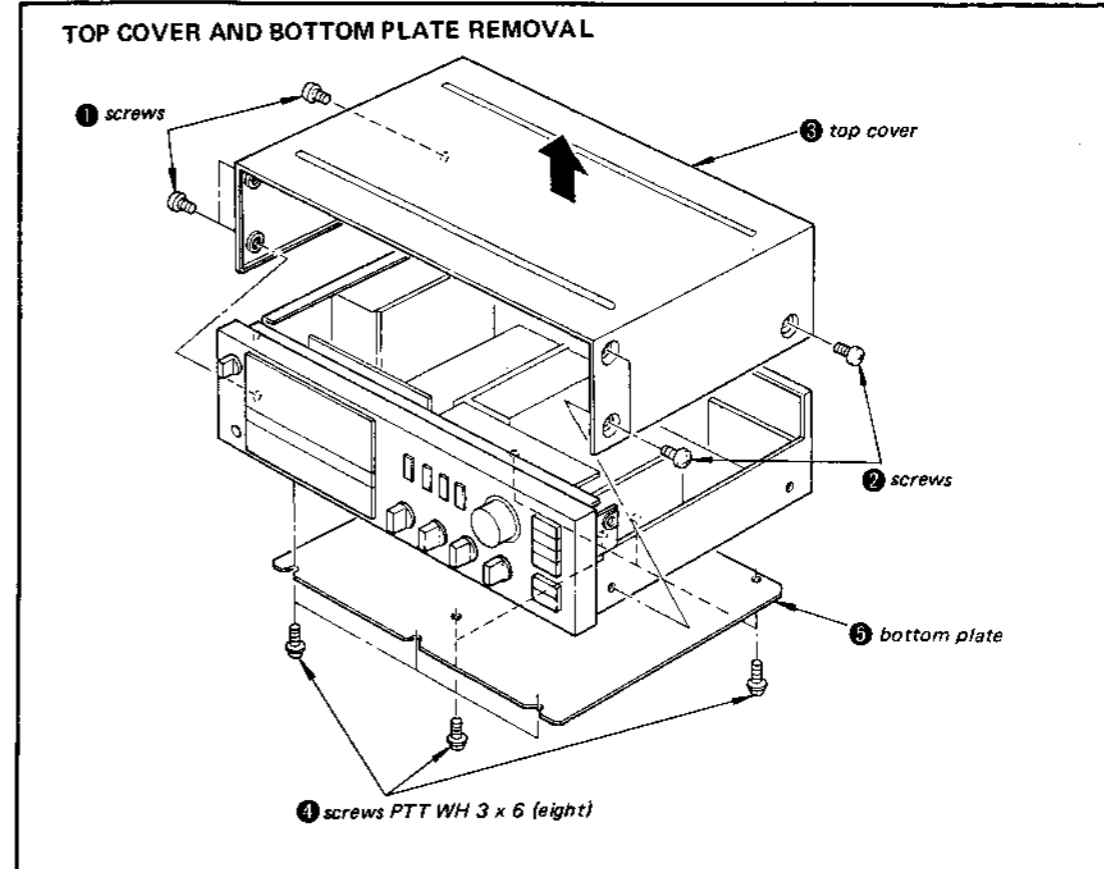
Refer to the schematic diagram for the block diagram.

Table 3. Function of Terminals:

Terminal	IN or OUT	Function
1	IN	Word address D
2	IN	Word address C
3	IN	Word address B
4	IN	Word address A
5	IN	Power supply input
6	IN/OUT	Writing and erasure control inputs/memory-BUSY output
7	IN	Power supply input
8	IN/OUT	Inputs and outputs for test checkout
9	IN	Test signal
10	IN/OUT	Combined data inputs and data outputs
11	IN	Input for synchronous clock
12	IN	Input for mode control C3
13	IN	Input for mode control C2
14	IN	Input for mode control C1

SECTION 2
DISASSEMBLY

• Follow the disassembly procedure in the numerical order given.

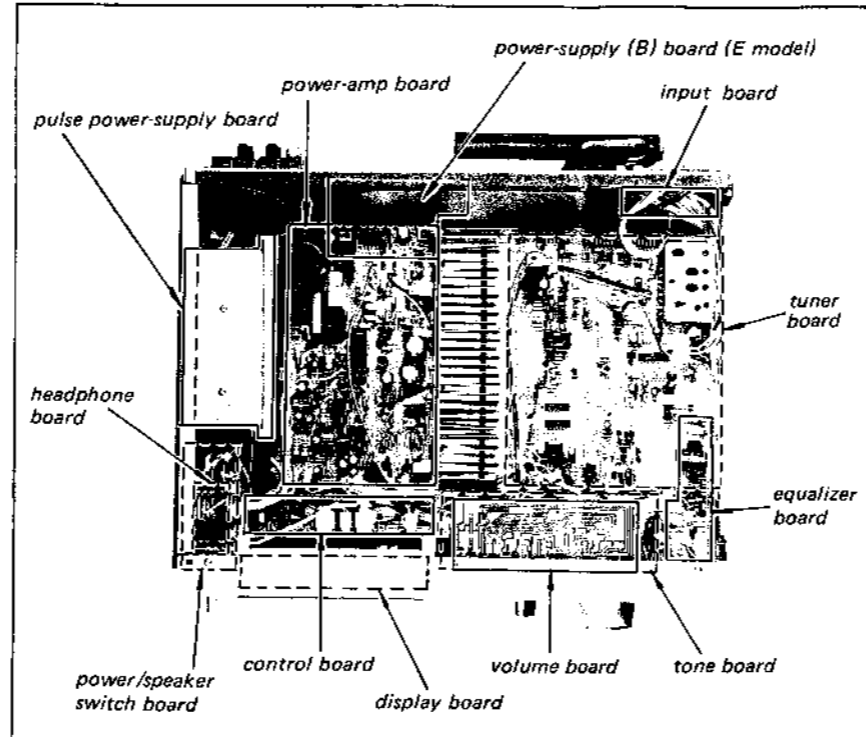
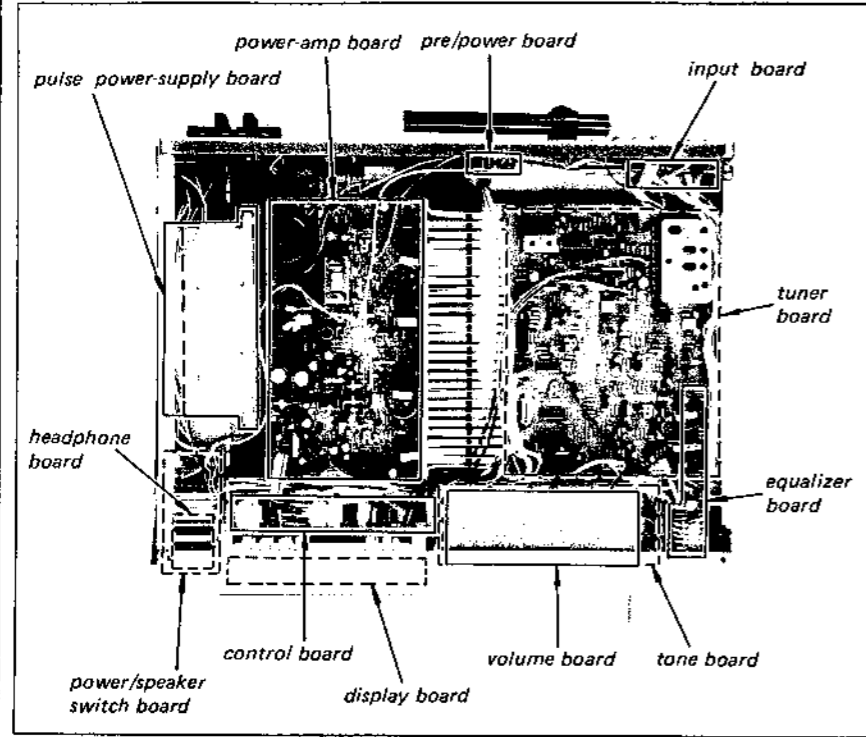


CIRCUIT BOARDS LOCATION

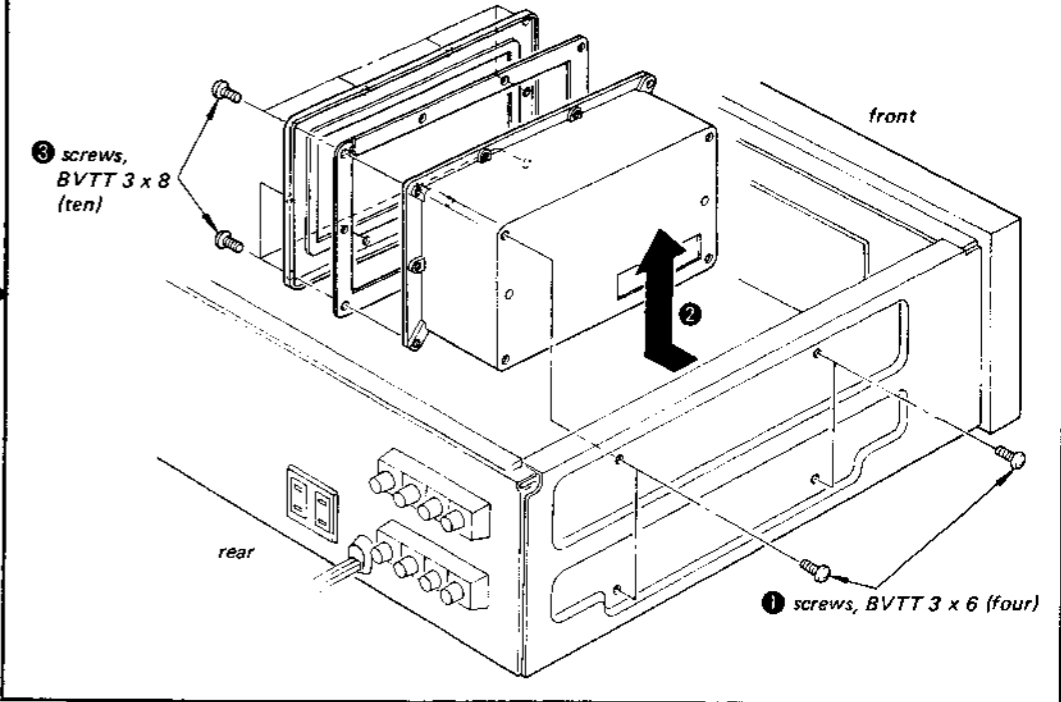
With the set removed shown below, each circuit board can be checked.

US, Canadian model

AEP, UK, E model



PULSE POWER BLOCK REMOVAL



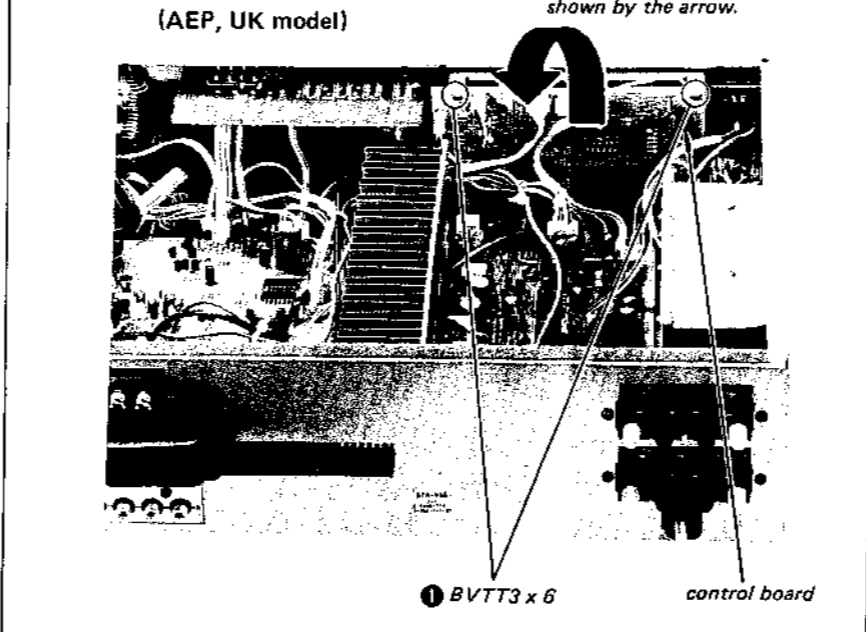
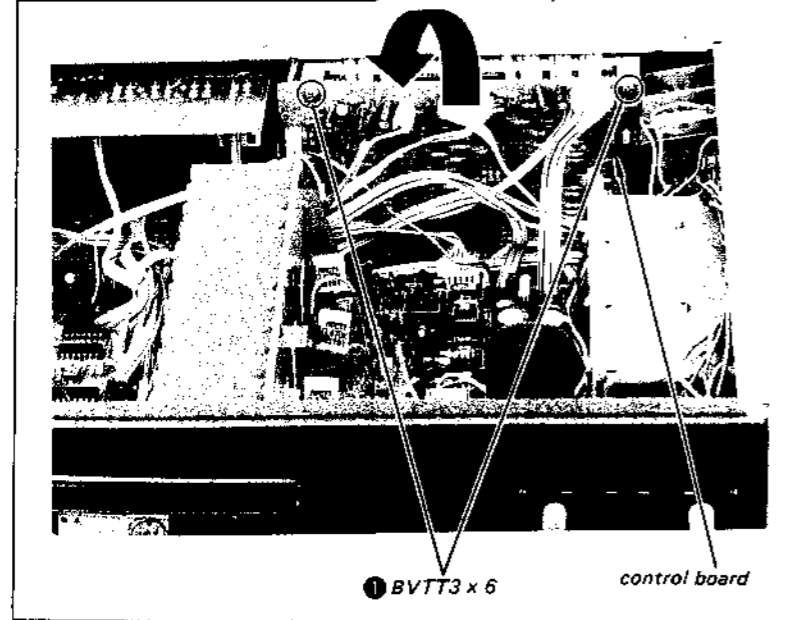
CONTROL BOARD REMOVAL

US, Canadian model

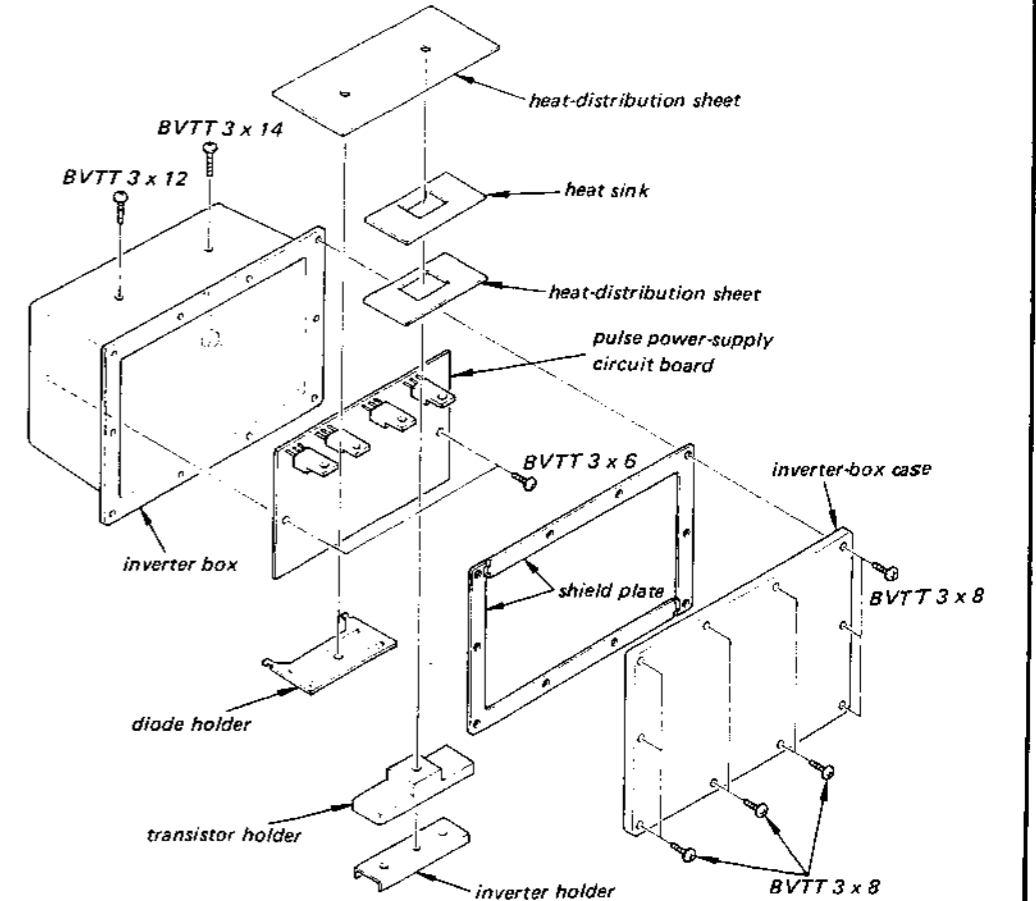
AEP, UK, E model

2 Pull up the board in the direction shown by the arrow.

2 Pull up the board in the direction shown by the arrow.



PULSE POWER SUPPLY BOARD REMOVAL



SECTION 3 ADJUSTMENTS

STR-V55 STR-V55

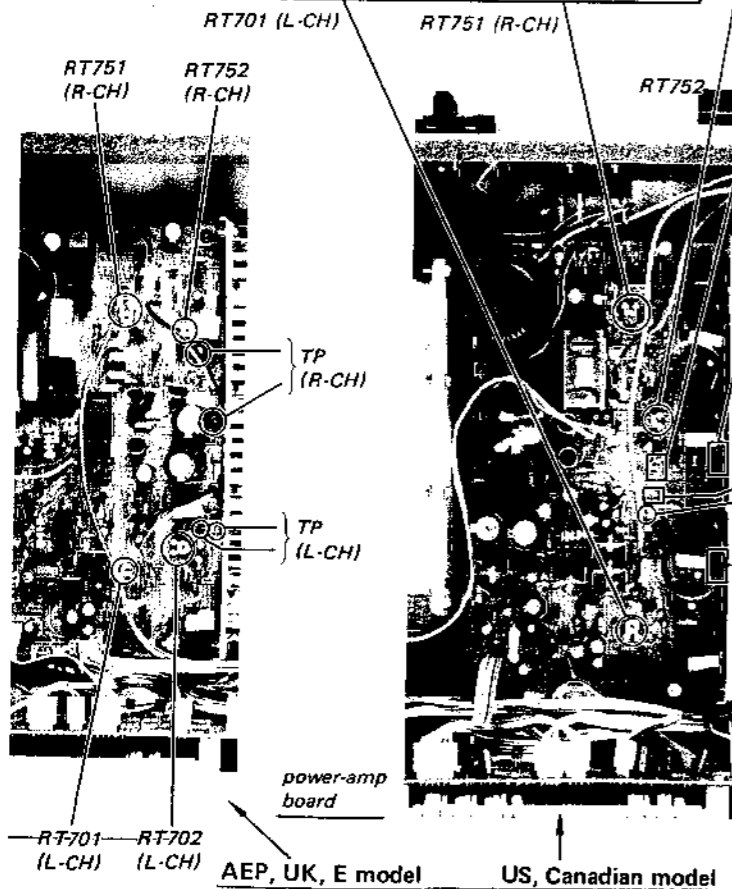
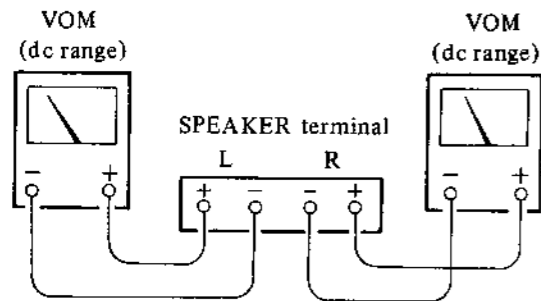
3-1. AMPLIFIER SECTION

Note:

1. DC bias and DC balance adjustments should be made several minutes later after the POWER switch is turned on (POWER ON).
2. Make DC bias adjustment first.
3. Repeat DC bias and DC balance adjustments two or three times.
4. After replacing the power transistors, DC bias and DC balance adjustments should be made.

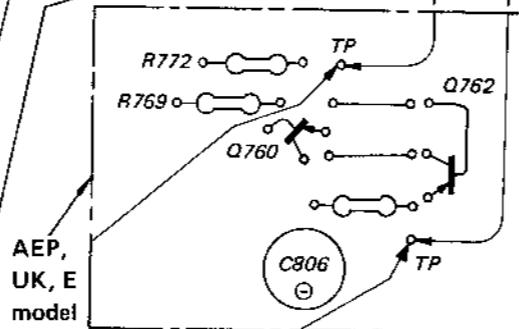
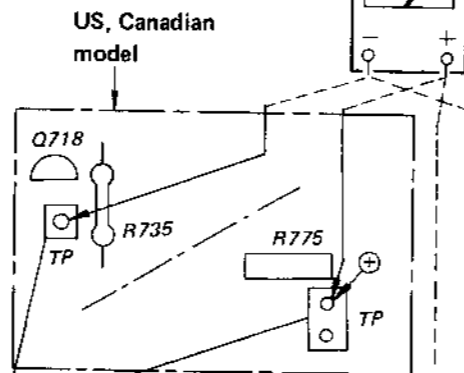
DC Balance Adjustment (With no signal input)

-L-CH- -R-CH-
Adjust RT701 for 0V Adjust RT751 for 0V
dc reading on VOM. dc reading on VOM.

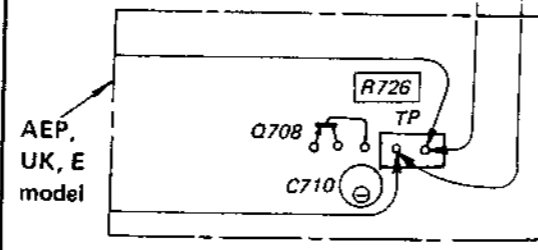
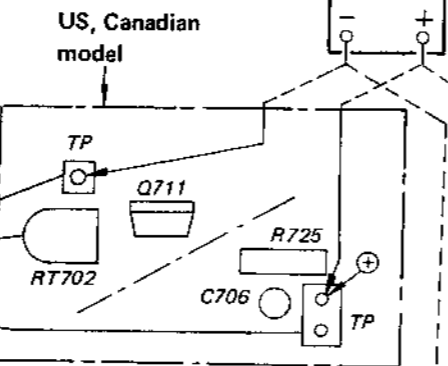


DC Bias Adjustment (With no signal input)

-R-CH-
Adjust RT752 for 10mV
dc reading on VOM.



-L-CH-
Adjust RT702 for 10mV
dc reading on VOM.



3-2. FM SECTION

FM stereo standard signal	FM monaural standard signal
Carrier frequency: 98MHz	Carrier frequency: 98MHz
Modulation: Audio 400Hz	Modulation: 400Hz,
33.75kHz deviation (US, Canadian, E model)	75kHz deviation (100%) (US, Canadian, E model)
16.25kHz deviation (AEP, UK model)	40kHz deviation (100%) (AEP, UK model)
Sub carrier 38kHz	
33.75kHz deviation (US, Canadian, E model)	
16.25kHz deviation (AEP, UK model)	
Pilot signal 19kHz	
7.5kHz deviation	

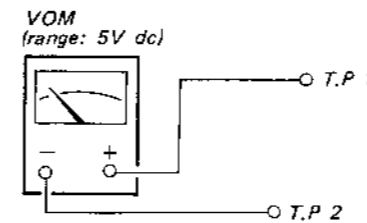
FM DISCRIMINATOR (IFT101) ALIGNMENT 1 (PRIMARY SIDE)

Setting: FUNCTION switch: TUNER
FM/AM switch: FM
MODE switch: MONO
TUNING switch: Detuned position

Procedure:

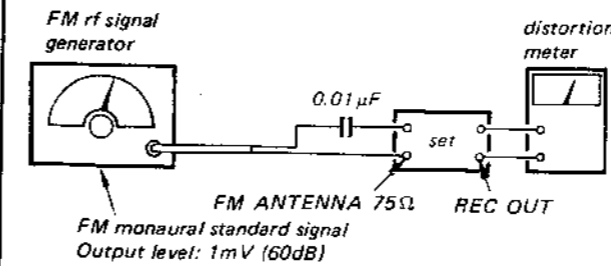
Adjust the orange core (primary-side) of IFT 101 for 0V reading on VOM.

Note: When replacing the ceramic filters (CF101-CF104), perform this alignment.



FM DISCRIMINATOR (IFT101) ALIGNMENT 2 (SECONDARY SIDE)

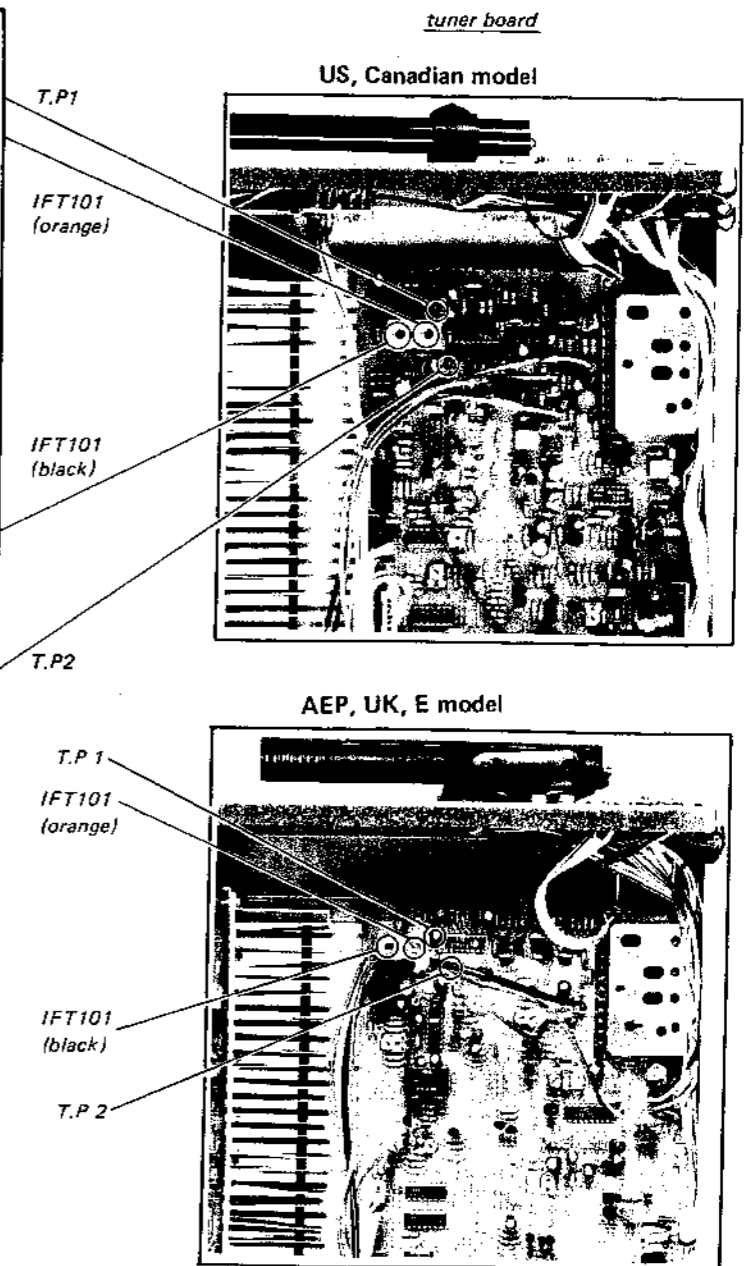
Setting: FUNCTION switch: TUNER
FM/AM switch: FM
MODE switch: MONO



Procedure:

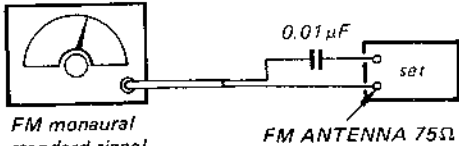
Tune the set to 98 MHz and adjust the black core (secondary side) of IFT101 for minimum distortion.

Note: Repeat the primary-side and secondary-side alignments several times.



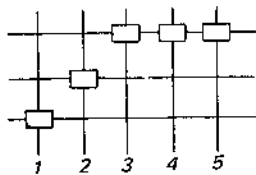
SIGNAL INDICATOR ADJUSTMENT

FM rf signal generator



FM monaural standard signal (No modulation)
Output level: 0.32mV (50dB)

SIGNAL STRENGTH



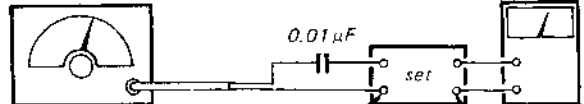
Procedure:

Tune the set to 98MHz and adjust RT301 (US, Canadian model) or RT101 (AEP, UK, E model) for all five LEDs of SIGNAL STRENGTH indicator lighting.

FM MUTING LEVEL ADJUSTMENT

Setting: TUNING LEVEL-LOW switch: ON

FM rf signal generator



FM monaural standard signal
Output level: 5.7μV (15dB)

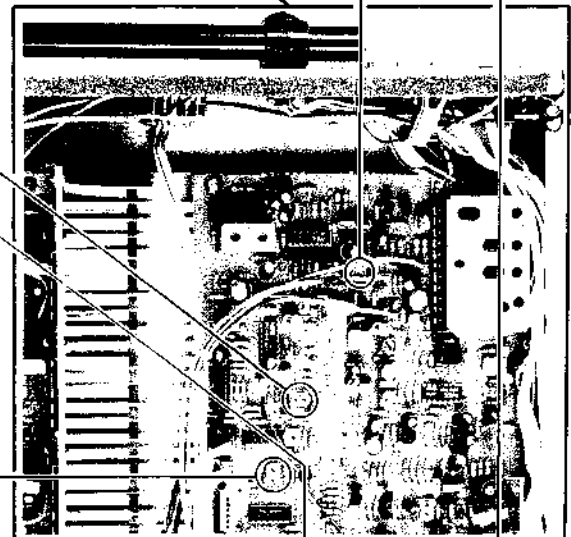
Procedure:

1. Tune the set to 98MHz.
2. Turn RT102 (US, Canadian model) or RT103 (AEP, UK, E model) until the VTVM reading drops to 0V.

US, Canadian model

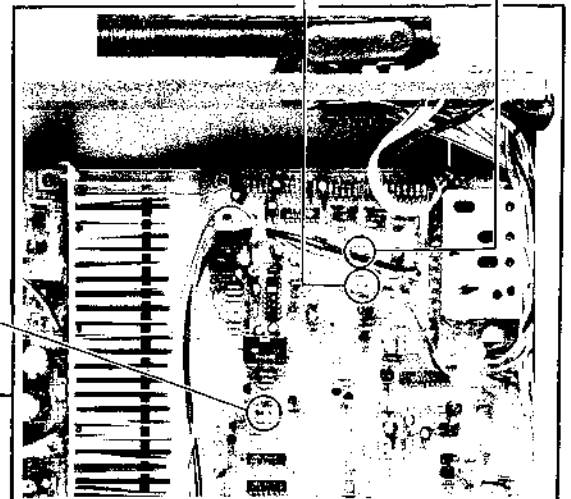
RT102

RT103



tuner board

RT103

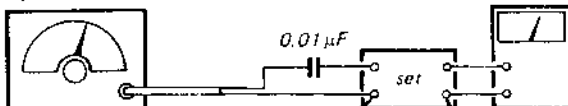


AEP, UK, E model

FM TUNING LEVEL ADJUSTMENT

Setting: TUNING LEVEL switch: HIGH

FM rf signal generator



FM monaural standard signal
Output level: 360μV-880μV (55 ± 4dB)

Procedure:

Tune the set to 98MHz.

By varying the output level of the FM signal generator from 360μV (51dB) to 880μV (59dB), adjust RT101 (US, Canadian model) or RT102 (AEP, UK, E model) so that the frequency scanning stops (observing the frequency indicator of the set).

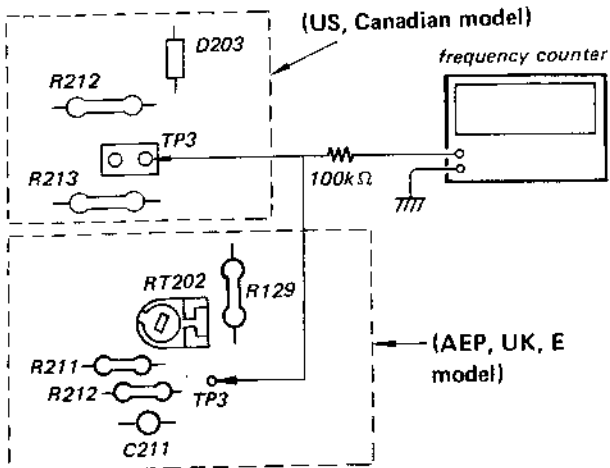
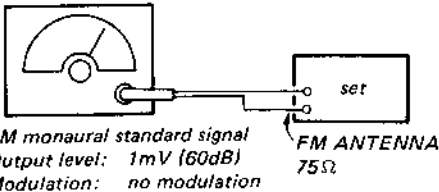
VCO ADJUSTMENT

Setting:

FUNCTION switch: TUNER
 FM/AM switch: FM
 MODE switch: MONO

A) Regular Method

FM rf signal generator



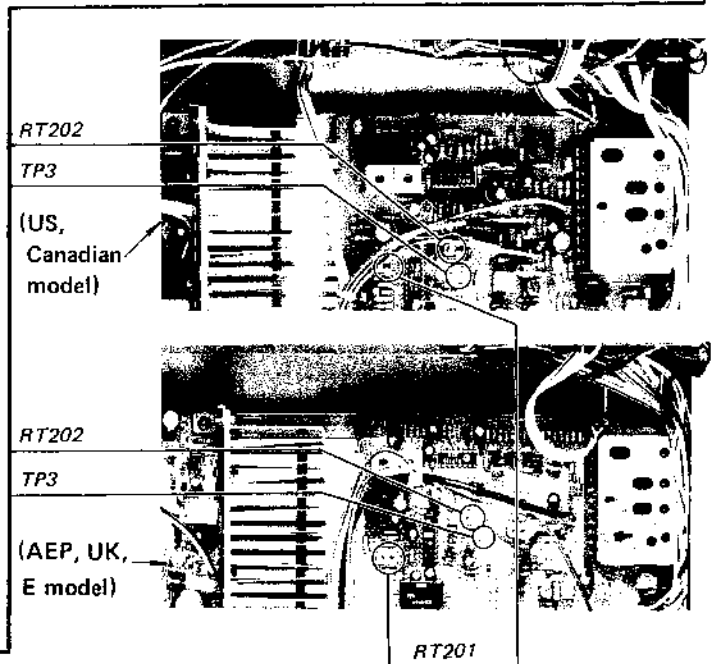
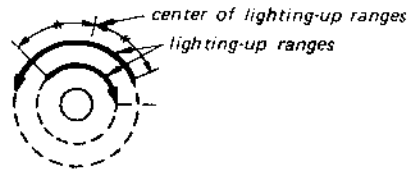
Procedure:

1. Tune the set to 98MHz.
2. Adjust RT202 for 76kHz \pm 100Hz reading on the frequency counter.

B) Simple Method

Procedure:

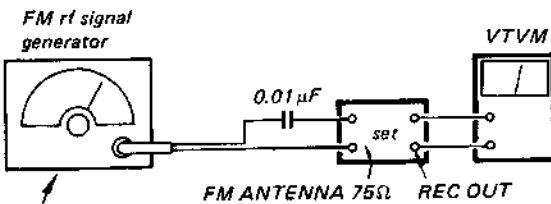
1. Tune the set to the FM stereo broadcasting signal.
2. Turn RT202 clockwise or counterclockwise and memorize the lighting-up ranges of STEREO lamp.
3. Secure RT202 at the center of the lighting-up range of both turns as shown below.



FM STEREO SEPARATION ADJUSTMENT

Setting:

FUNCTION switch: TUNER
 FM/AM switch: FM
 MODE switch: STEREO/FM-AM MUTING



Carrier frequency: 98MHz
 Output level: 1mV (60dB)
 Modulation:
 Audio (400Hz): 33.75kHz deviation (US, Canadian, E model)
 16.25kHz deviation (AEP, UK model)
 Pilot (19kHz): 7.5kHz deviation
 Sub channel (38kHz): 33.75kHz deviation (US, Canadian, E model)
 16.25kHz deviation (AEP, UK model)

Procedure:

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	(B) Adjust RT201 resistor for minimum reading.
R-CH	R-CH	(C)
L-CH	R-CH	(D) Adjust RT201 resistor for minimum reading.

L-CH Stereo Separation: (A) - (B)
 R-CH Stereo Separation: (C) - (D)

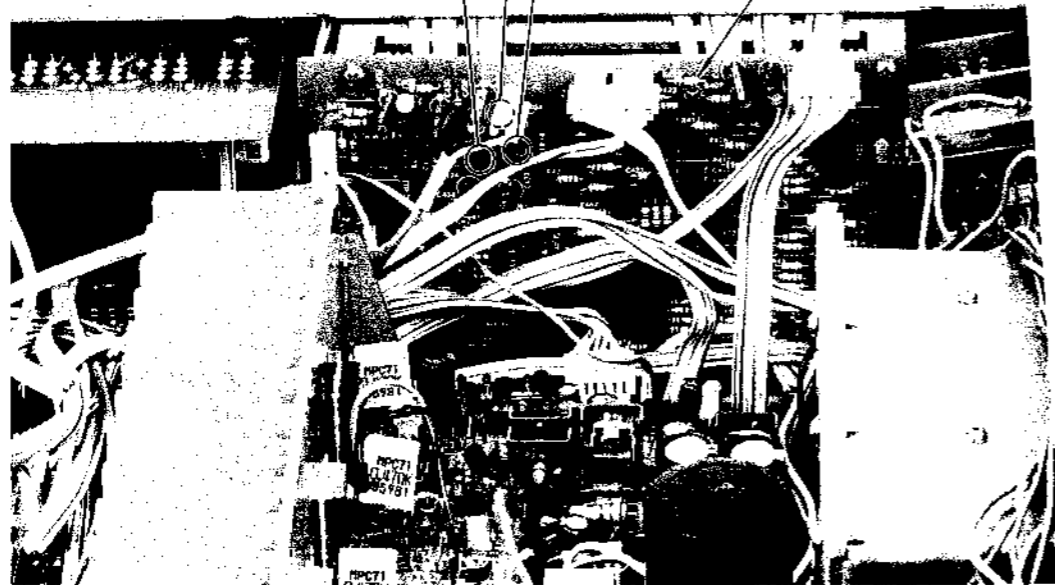
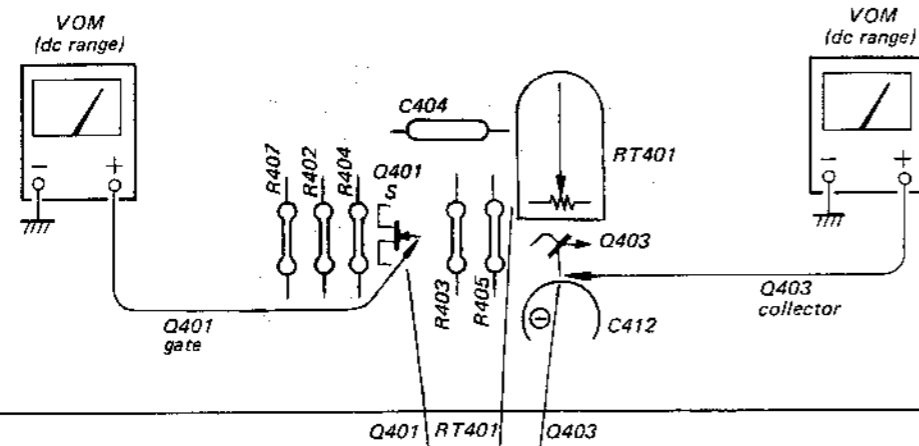
The separations of both channels should be equal.

US, Canadian model

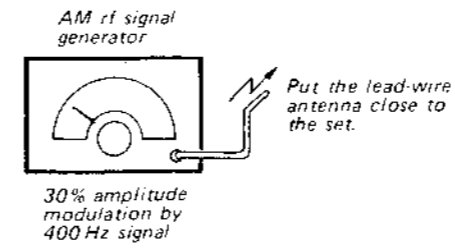
PLL AJUSTMENT

Procedure:

1. Tune the set to 98 MHz.
2. Turn RT401 to obtain 0.4V at the gate lead of Q401.

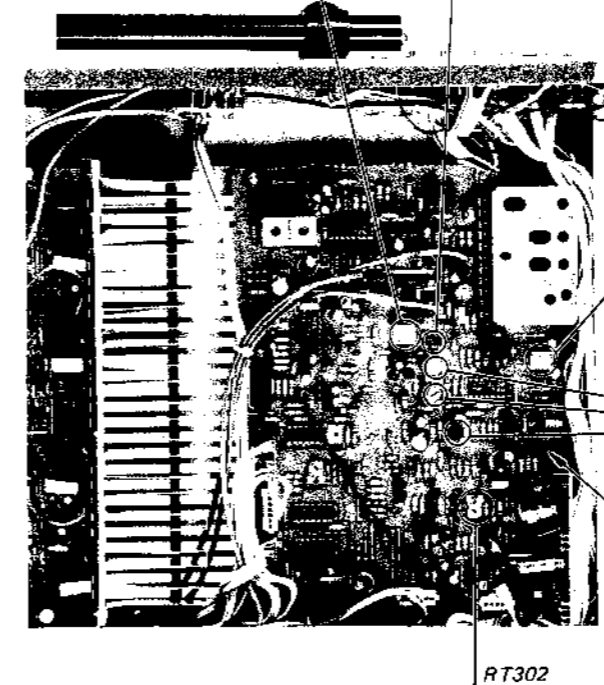


3-3. AM SECTION

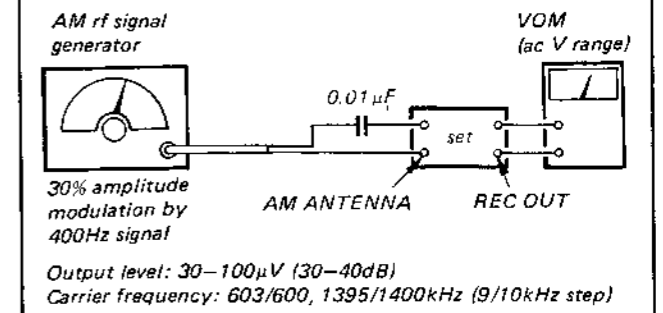


AM FREQUENCY COVERAGE ADJUSTMENT
(9/10kHz step)

Frequency Counter Indication	1602/1610kHz	522/530kHz
Q403 Collector Voltage	25V	1V
Adjust	CT302	L303



AM TRACKING ADJUSTMENT

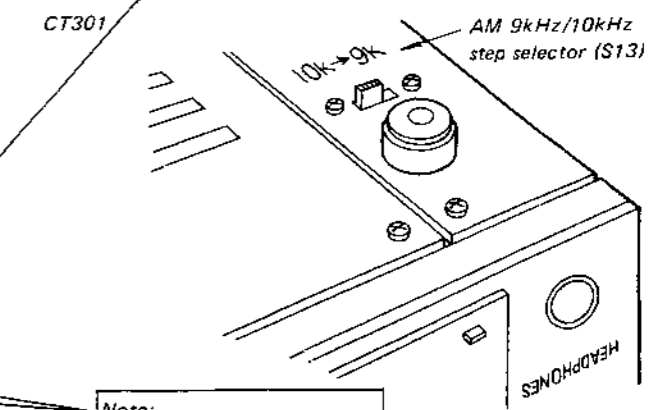


Procedure:

Tune the set to the frequency of AM rf signal generator and adjust L1 and CT301 for maximum reading on the VOM.

	AM Rf Signal Generator Frequency	Adjust	VOM Reading
1	603/600kHz	Core of L1	maximum
2	1395/1400kHz	CT301	

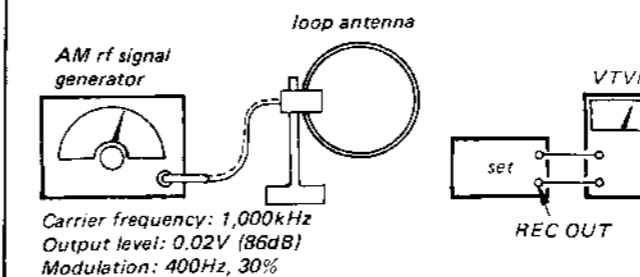
Note: Repeat the above adjustment several times ending with CT301.



Note: When 1FT301 through 303 are replaced, they do not need readjustment since they have been factory adjusted.

AM TUNING LEVEL ADJUSTMENT

Setting: TUNING LEVEL-LOW switch: ON



Procedure:

1. Place the loop antenna at a distance of 60cm (23 5/8") away from the ferrite-rod antenna in the set.
2. Turn RT302 until the VTVM reading drops to 0V with the output level of AM signal generator of 86 ±4dB.

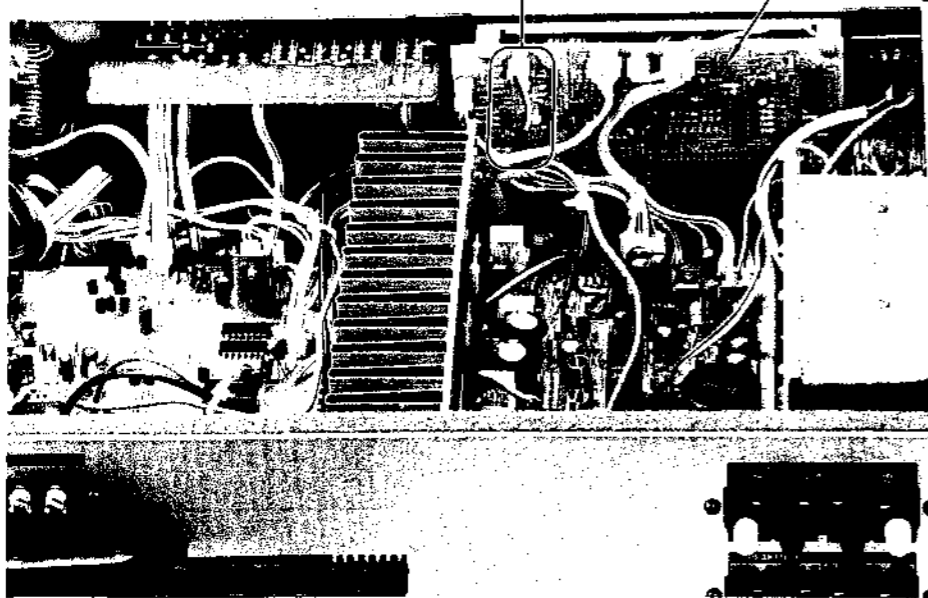
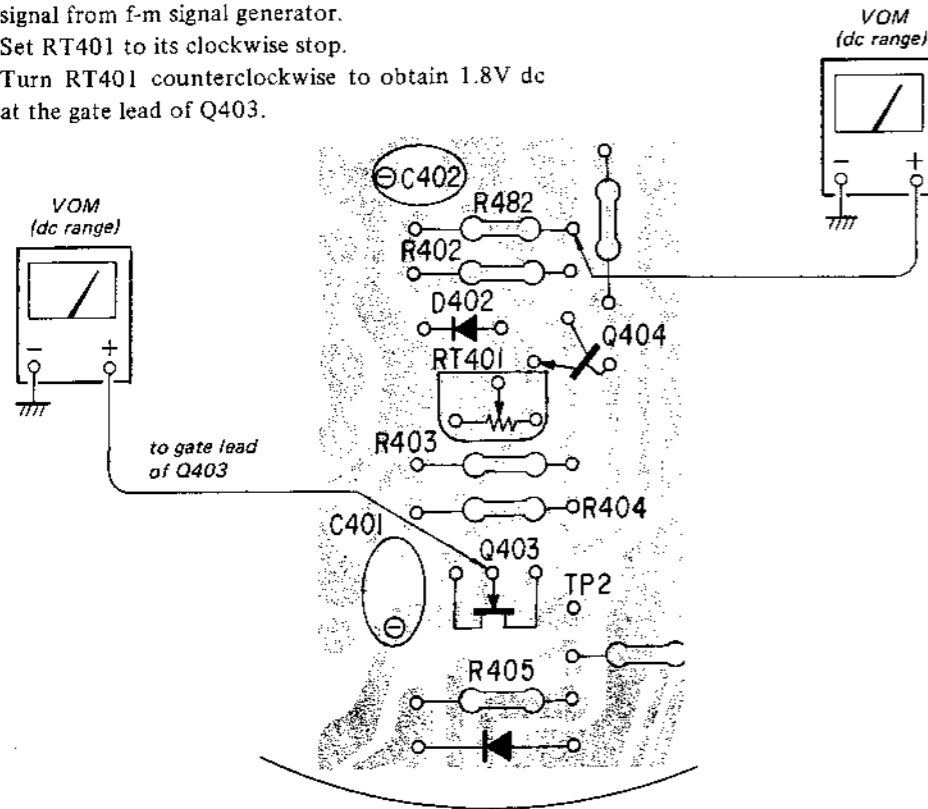
AEP, UK, E model

PLL ADJUSTMENT

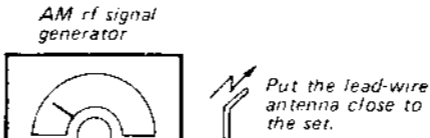
Setting: FM/AM switch: FM

Procedure:

1. Tune the set to 87.5 MHz and receive a 87.5 MHz signal from f-m signal generator.
2. Set RT401 to its clockwise stop.
3. Turn RT401 counterclockwise to obtain 1.8V dc at the gate lead of Q403.



3-3. AM SECTION

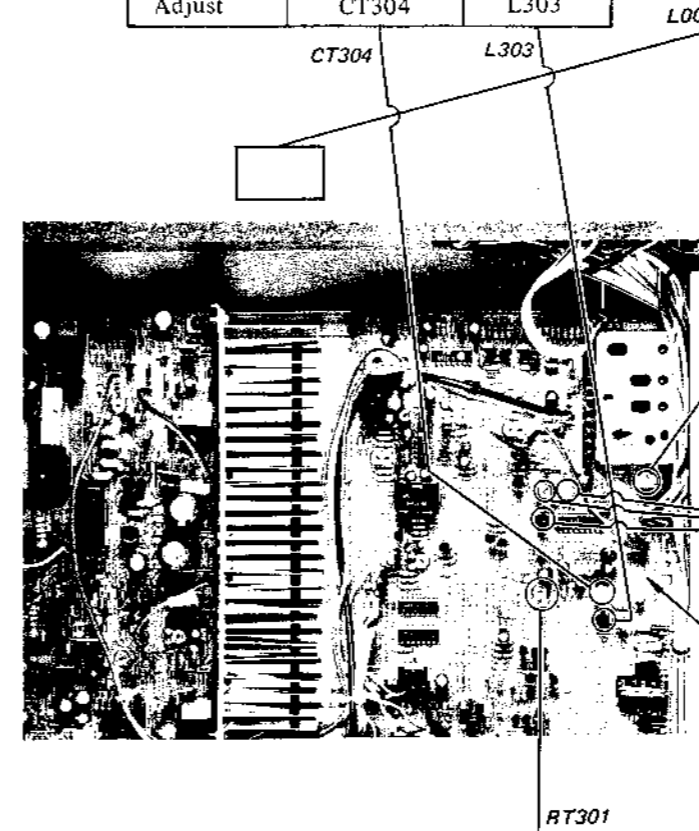


30% amplitude modulation by 400 Hz signal

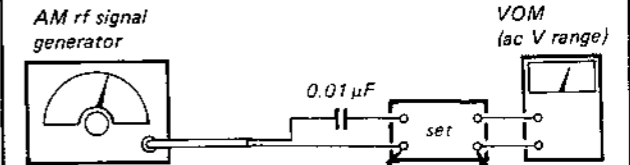
Set S16 to "9kHz" side.

AM FREQUENCY COVERAGE ADJUSTMENT

Frequency Counter Indication	1602kHz	522kHz
VOM reading	22V	1.5V
Adjust	CT304	L303



AM TRACKING ADJUSTMENT



30% amplitude modulation by 400Hz signal

Output level: 30-100µV (30-40dB)
Carrier frequency: 603, 1404kHz

Procedure:

Tune the set to the frequency of AM rf signal generator and adjust L001 and CT302 for maximum reading on the VOM.

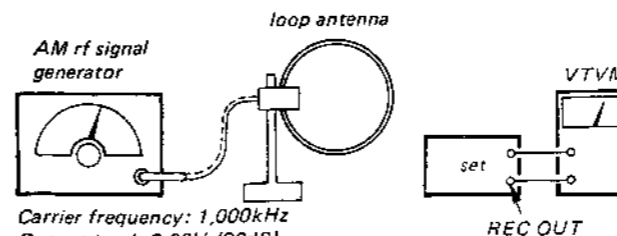
	AM Rf Signal Generator Frequency	Adjust	VOM Reading
1	603kHz	Core of L001	maximum
2	1404kHz	CT302	

Note: Repeat the above adjustment several times ending with CT302.

Note: When IFT301 through 303 are replaced, they do not need readjustment since they have been factory adjusted.

AM TUNING LEVEL ADJUSTMENT

Setting: TUNING LEVEL-LOW switch: ON



Carrier frequency: 1,000kHz
Output level: 0.02V (86dB)
Modulation: 400Hz, 30%

Procedure:

1. Place the loop antenna at a distance of 60cm (23 5/8") away from the ferrite-rod antenna in the set.
2. Turn RT301 until the VTVM reading drops to 0V with the output level of AM signal generator of 86 ±4dB.

A

B

C

D

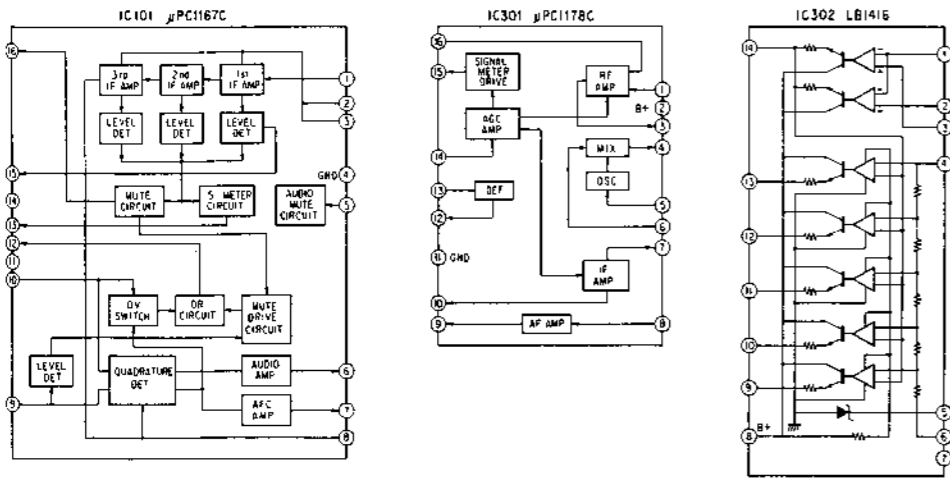
E

F

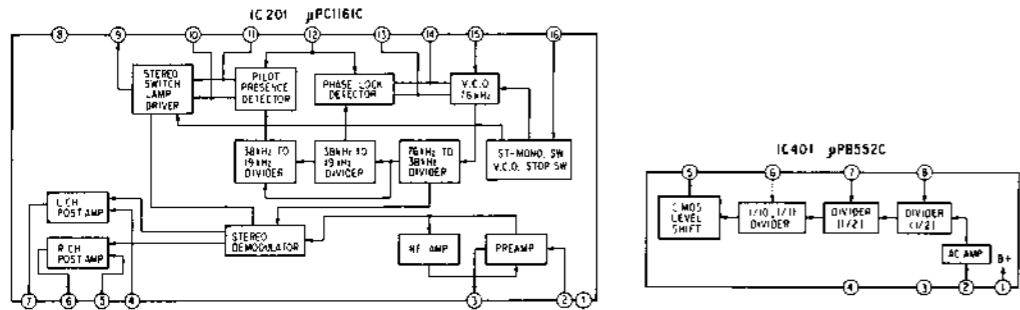
G

H

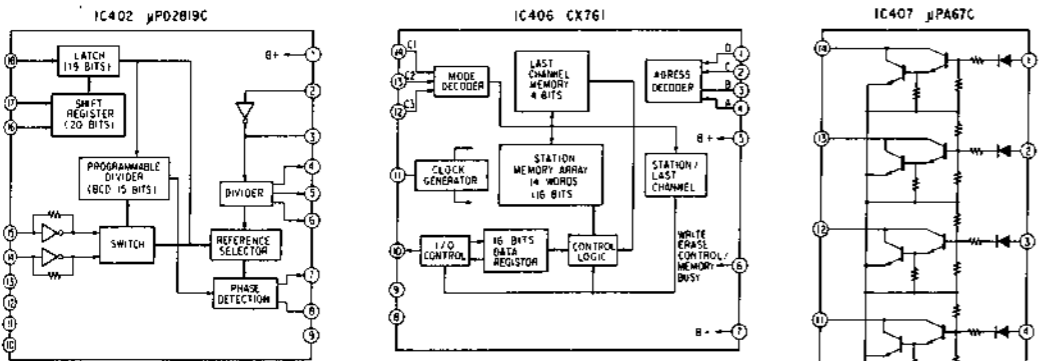
1



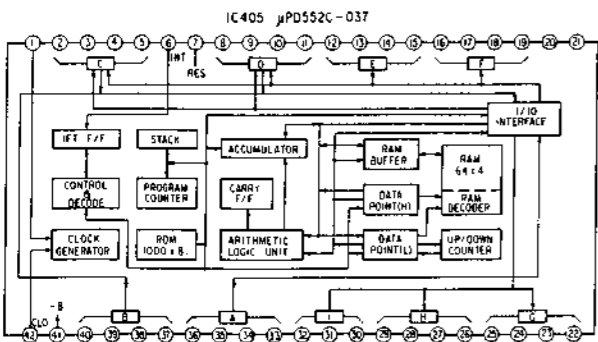
2



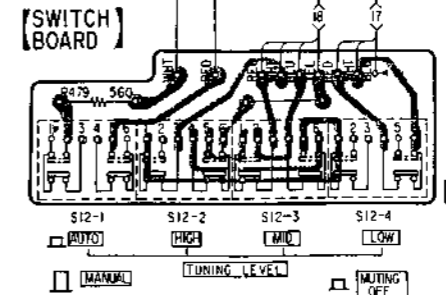
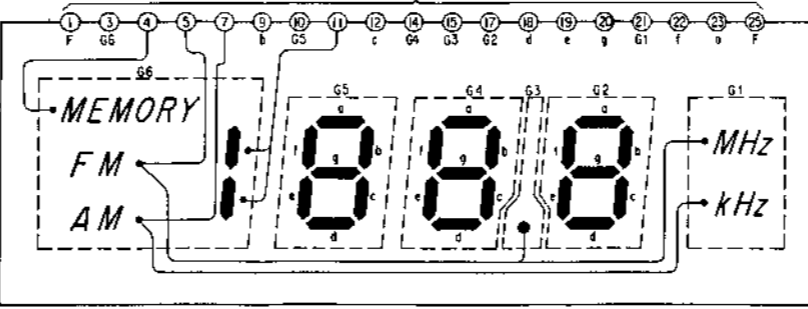
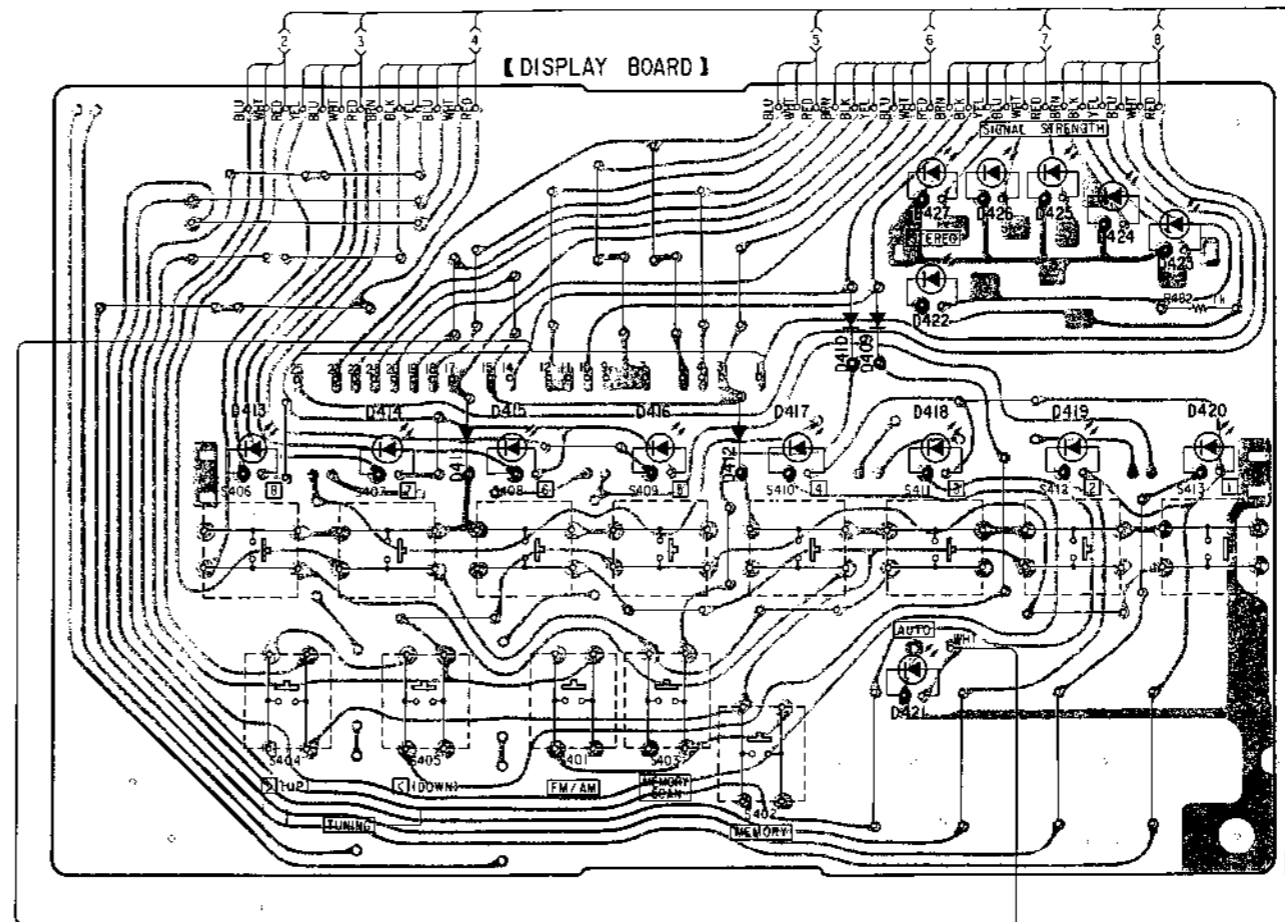
3



4

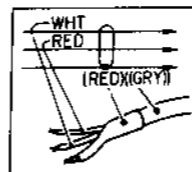


5



Q									415	IC401							
IC									414	411							
D	413	414	411	415	416	412	417	410	409	427	426	425	424	423	420		
														421	404	401	403

Note: ● Color code of sleeving over the end of the jacket.



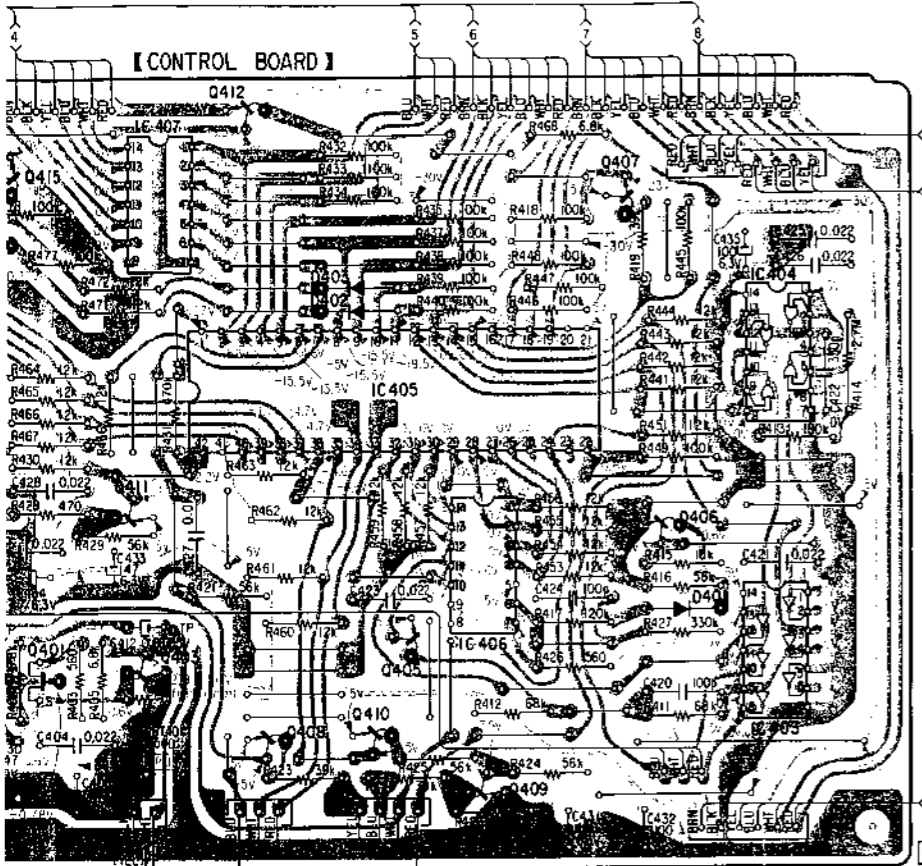
● □ : indicates side identified with part number.

- ———> : signal path
- ———> : L-CH signal path
- ———> : R-CH signal path

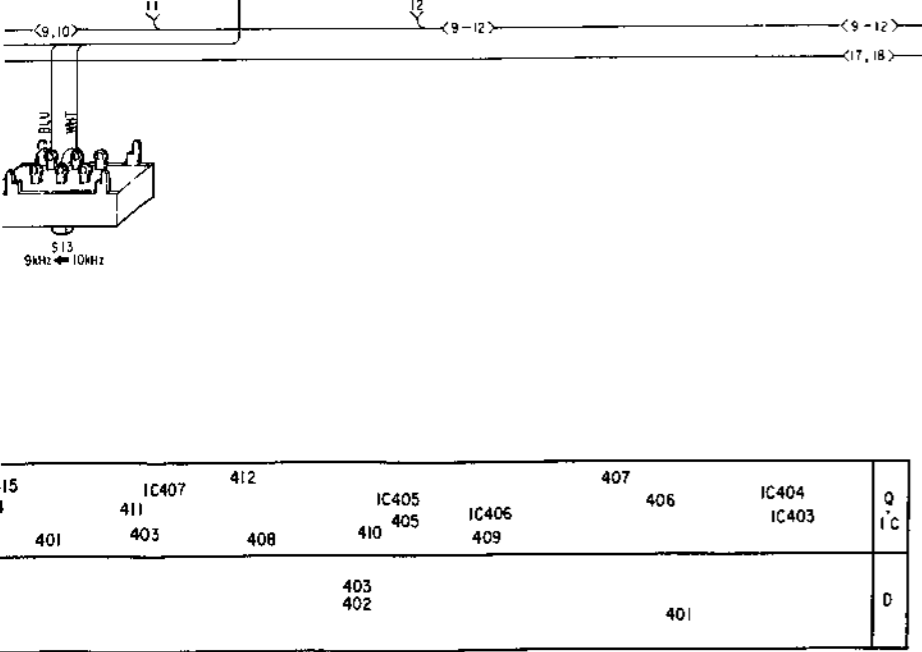
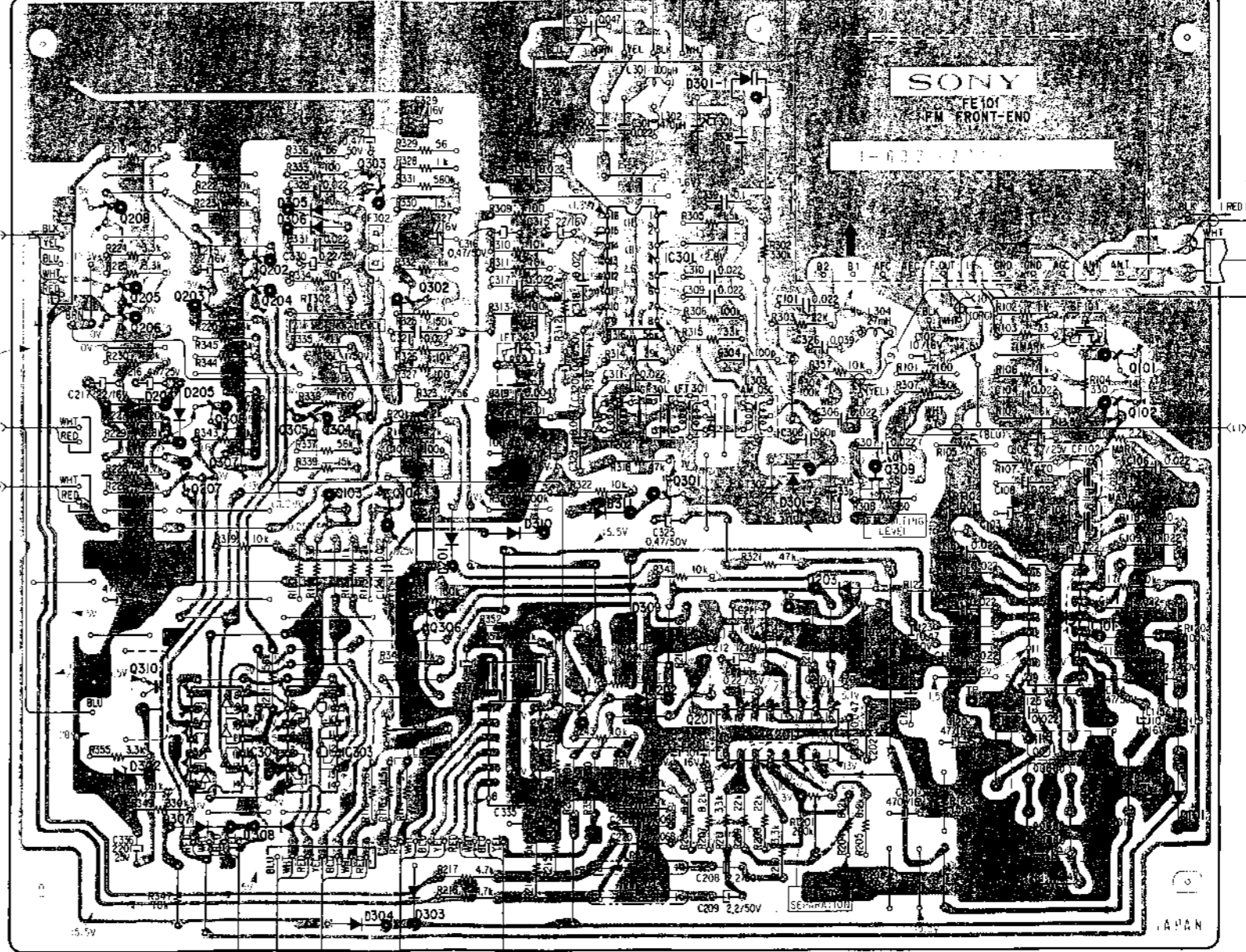
● B+ pattern

● B- pattern

A TO AMP SECTION
B

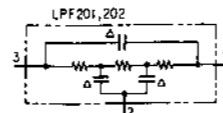


【TUNER BOARD】



Q, IC	D
	301-1
303	
208	305 306
IC301	
202	
205	
203, 204	
206	302
	101
308	204 205
305, 304	
307	
207, 309	301-2
301	311
103, 104	201, 310
	309 203
306	IC101
310	201
311	202
IC304, IC303	
IC302, IC201	302
	101
	307, 308
	303
	304
Q, IC	D

Q	IC	D
412	IC407	
407		
406	IC405	
IC404		
IC403		
401		
403		
402		
401		
Q	IC	D

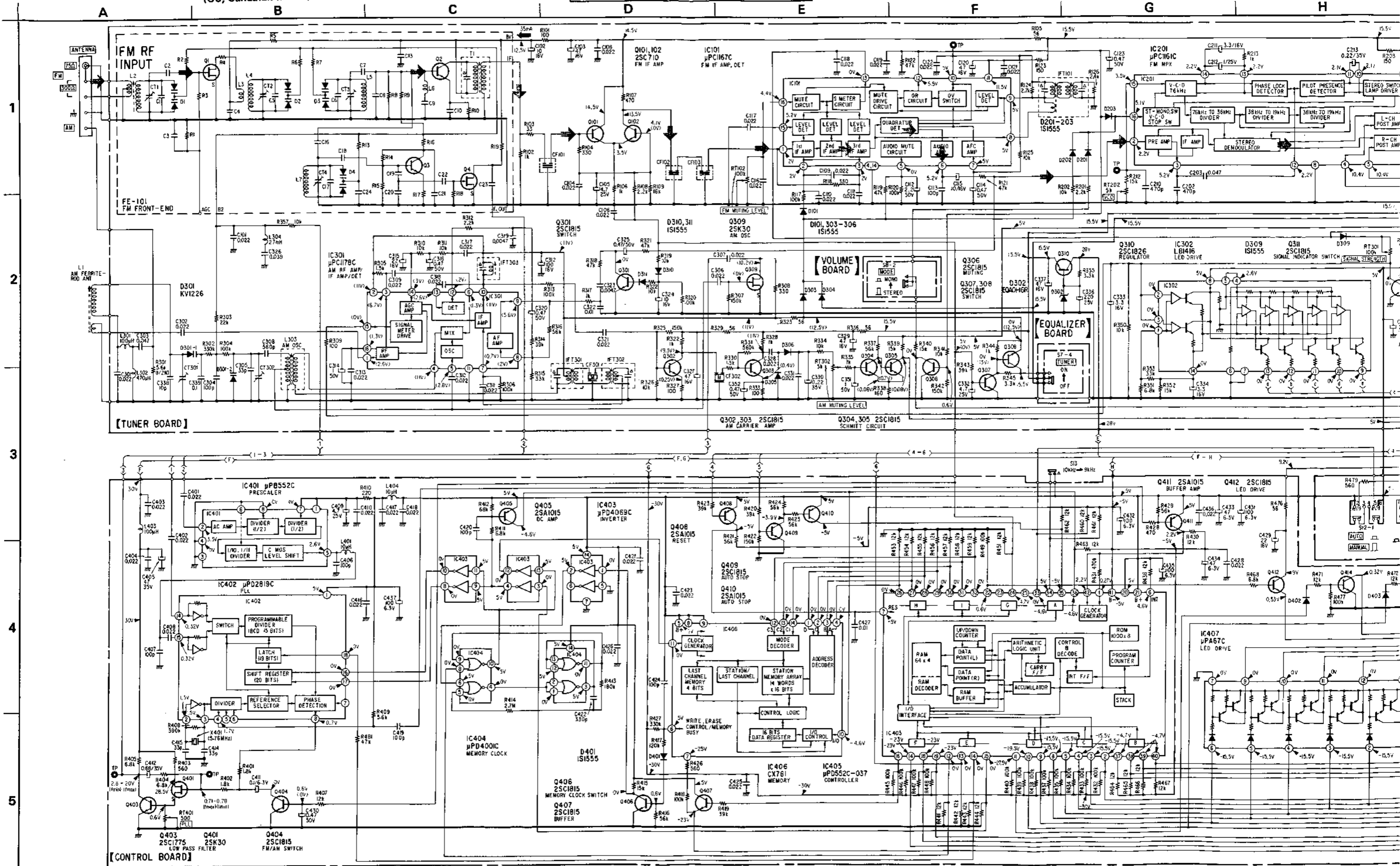


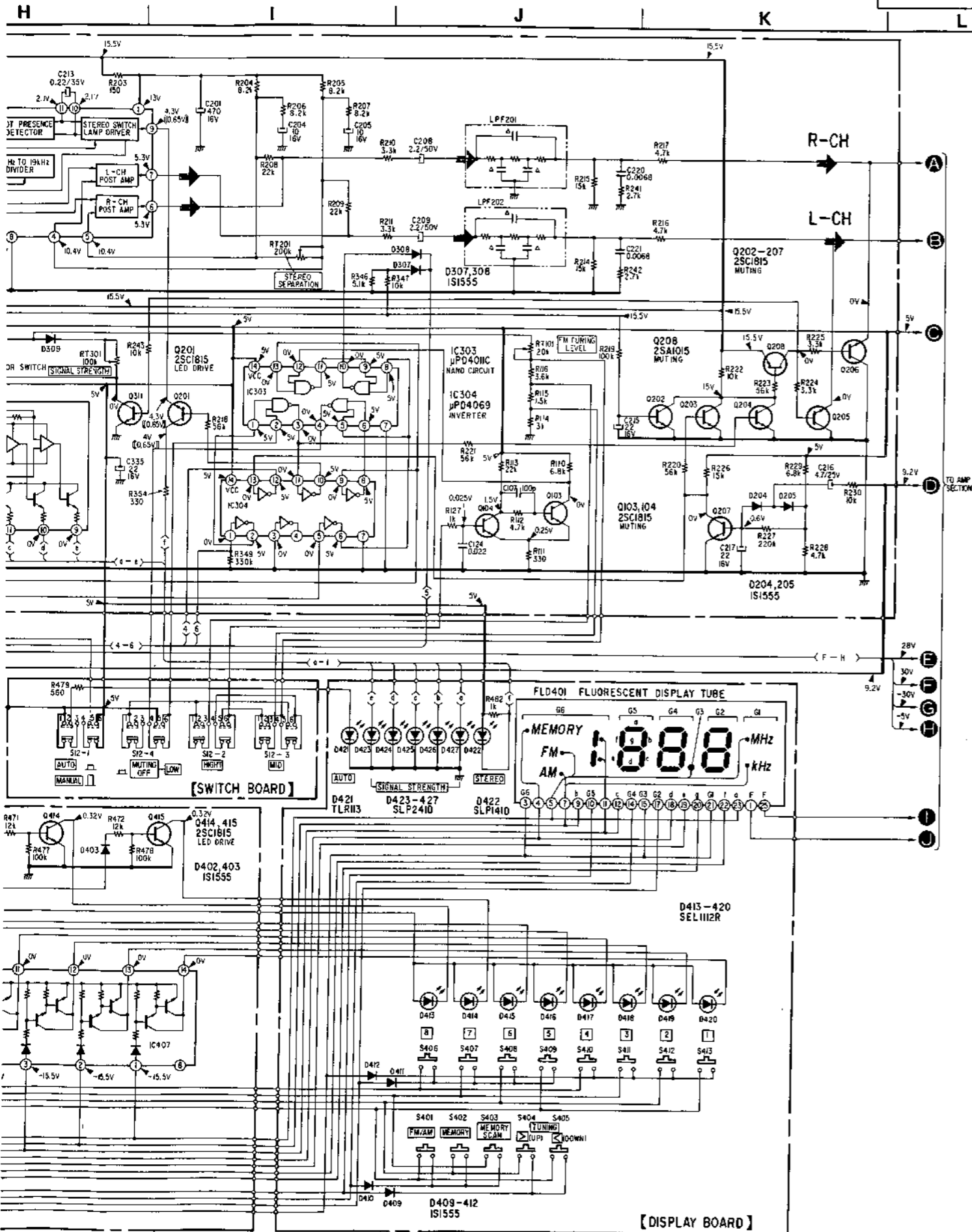
4-2. SCHEMATIC DIAGRAM (1) - Tuner Section -
(US, Canadian model)

US, Canadian model

STR-V55 STR-V55

US, Canadian model





Note:

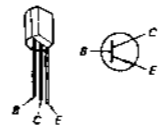
- All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega : 1000\Omega$, $\text{M}\Omega : 1000\text{k}\Omega$
- Δ : internal component.
- \square : panel designation.
- \square : adjustment for repair.
- --- : B+ bus.
- --- : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (20 $\text{k}\Omega/\text{V}$).
- [()] : FM STEREO
- < > : AM
- no mark : FM
- Voltage variations may be noted due to normal production tolerances.
- \Rightarrow : signal path
- Switch

Ref. No.	Switch	Position
S7	FUNCTION TUNER	OFF
S8	MODE	STEREO
S12	TUNING LEVEL	MANUAL
S13	AM 9kHz/10kHz	10kHz
S401	FM/AM	FM
S402	MEMORY	OFF
S403	MEMORY SCAN	OFF
S404	TUNING (UP)	OFF
S405	TUNING (DOWN)	OFF
S406-413	preset (1-8)	OFF

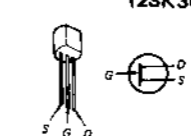
Replacement Semiconductors

For replacement, use semiconductors except in ().

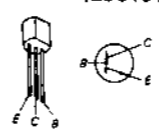
Q101, 102: 2SC710



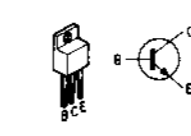
Q309, 401: 2SK30A (2SK30)



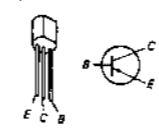
Q103, 104, 201-207, 301-308, 311, 404, 406, 407, 409, 412, 414, 415: 2SC1364 (2SC1815)



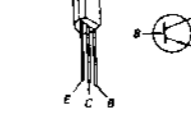
Q310: 2SC1986D



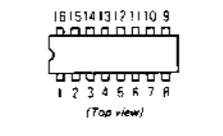
Q208, 405, 408, 410, 411: 2SA1015



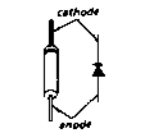
Q403: 2SC1775



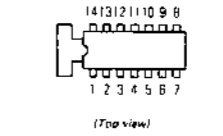
IC101: $\mu\text{PC1167C}$
IC201: $\mu\text{PC1161C}$
IC301: $\mu\text{PC1178C}$



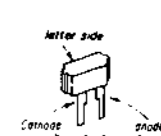
D101, 201-205, 303-311, 409-412: 1S1555



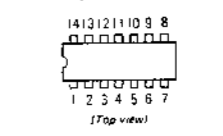
IC302: LB1416



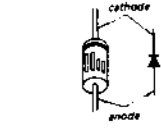
D301: KV1226



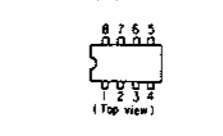
IC303: $\mu\text{PD4011C}$
IC304, 403: $\mu\text{PC4069C}$
IC404: $\mu\text{PD4001C}$



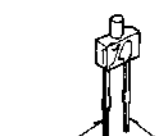
D302: EOB01-16 (EQA01-16R)



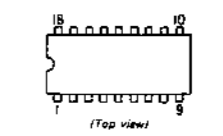
IC401: μPB552C



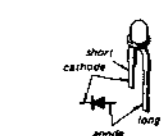
D413-420: SEL1112R



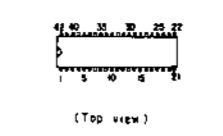
IC402: $\mu\text{PC2819C}$



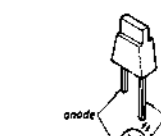
D421: TLR124 (TLR113)



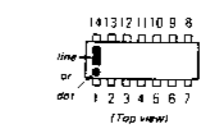
IC405: $\mu\text{PD552C037}$



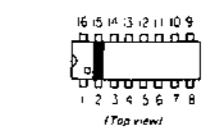
D422: SLP141B (SLP141D)
D423-427: SLP241B (SLP241D)



IC406: CX761A (CX761)



IC407: μPA67C



4-3. MOUNTING DIAGRAM (2) - Amp Section -
- Conductor Side - (US, Canadian model)

US, Canadian model STR-V55 STR-V55 US, Canadian model

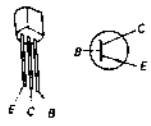
Replacement Semiconductors

For replacement, use semiconductors except in ().

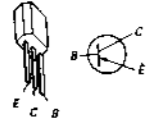
Q501, 502, 551, 552: 2SC2545

Q503, 701-704, 709, 716-721, 751-754, 759, 802, 803, 807, 811, 812, 816, 819, 820, 902: 2SC1364 (2SC1634)

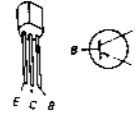
Q723: 2SC1890A



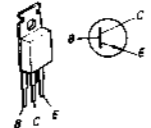
Q710, 760, 810, 815, 817, 818, 901: 2SA1027R



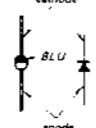
(2SA733)



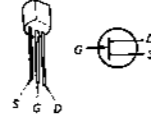
Q801, 805: 2SC1173



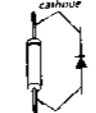
D701, 751: MV-12N



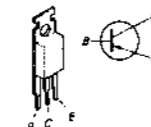
Q804, 806, 809, 814: 2SK34



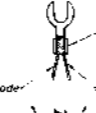
D702, 752, 704-708, 711, 754-757, 901, 902: 1S1555
D804: 10E2 (10E1)



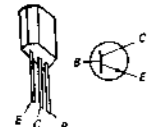
Q808, 813: 2SA473



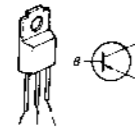
D703, 753: SV04S



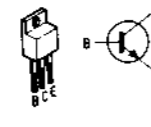
Q601, 651: 2SC1636



Q711, 761: 2SB528



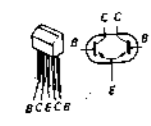
Q903, 904: 2SC2767



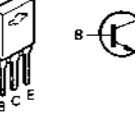
D801: S4VB40



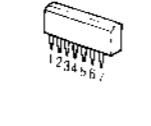
Q705, 755: 2SA979



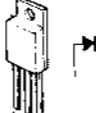
Q712, 762: 2SC2681



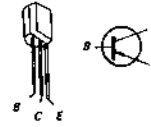
IC501, 551: M5214L



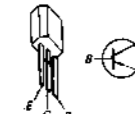
D902, 903: CTU2U



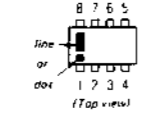
Q706, 756: 2SA904A



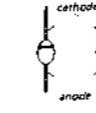
Q722: 2SA1027R



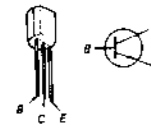
IC601: NJM4560D



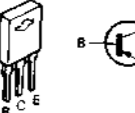
D905, 906: V09C



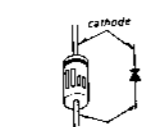
Q707, 757: 2SC1914A



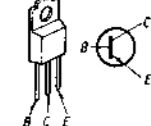
Q713, 763: 2SA1141



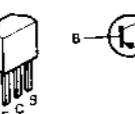
D501, 709: EQB01-10 (EQA01-10R)
D710: EQB01-20 (EQA01-20R)
D803: EQB01-06 (EQA01-06R)
D805, 807: EQB01-30 (EQA01-30R)
D806: EQB01-24 (EQA01-24R)
D808: EQB01-05 (EQA01-05R)



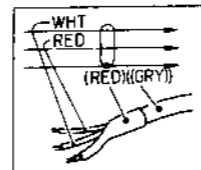
Q708, 758: 2SD358



Q714, 715, 764, 765: 2SA1049



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

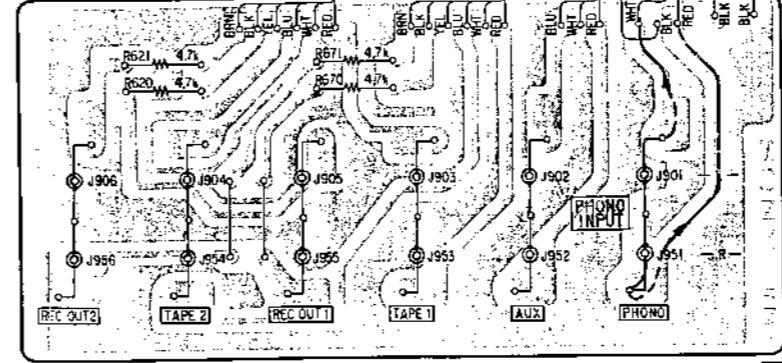


Note:

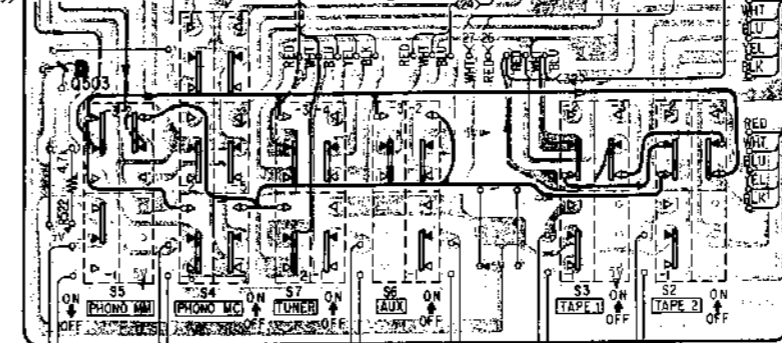
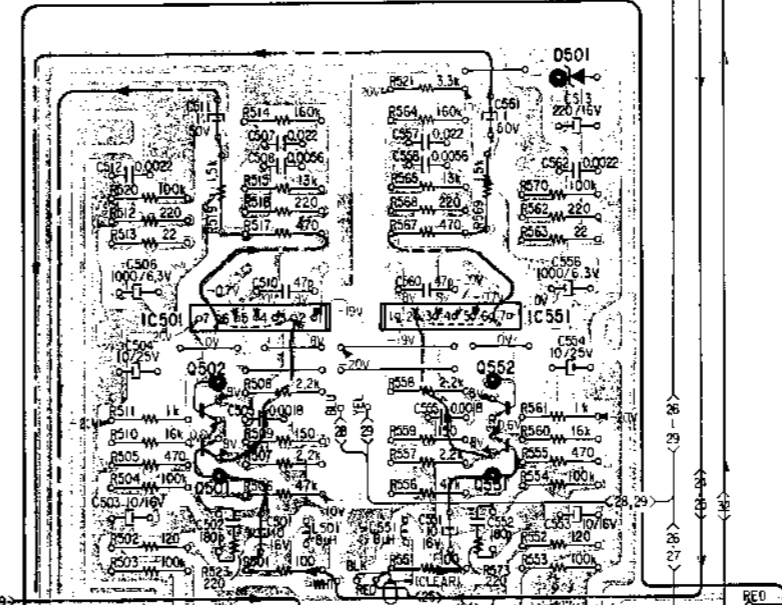
- → : signal path
- → : L-CH signal path
- → : R-CH signal path
- [] : indicates side identified with part number.

TO TUNER SECTION
A (15, 16, 20, 21)
B (19)

[INPUT BOARD]

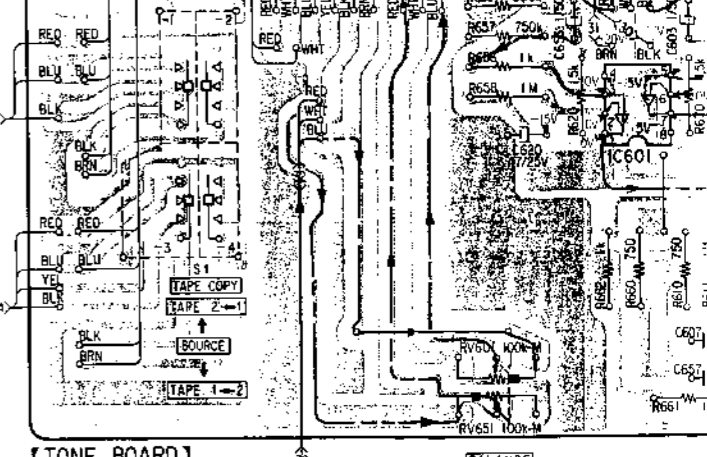


[EQUALIZER BOARD]

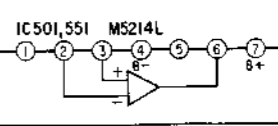
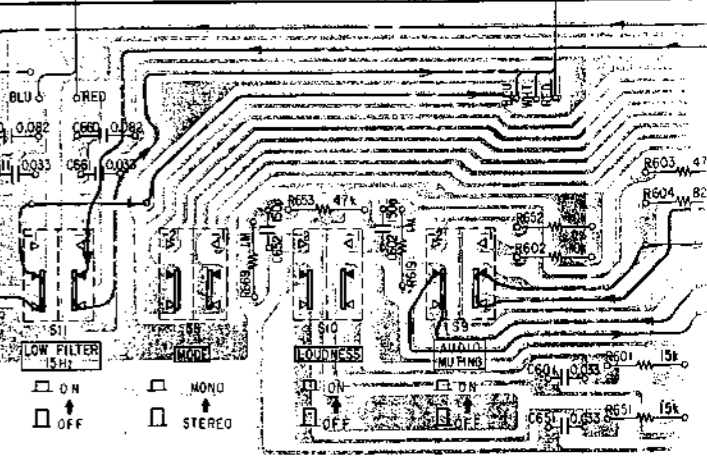


Q	Q503	Q502	IC 501	IC 551	Q552	D501
D		Q501			Q551	

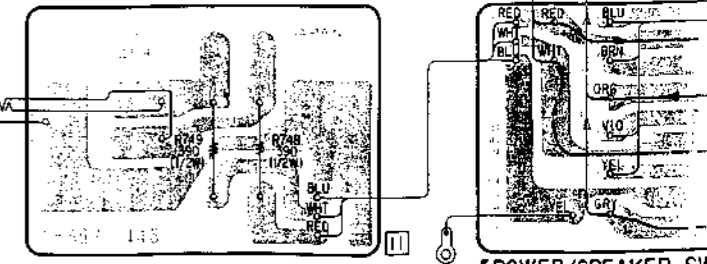
[TONE BOARD]



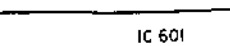
[VOLUME BOARD]



[HEADPHONE BOARD]



[POWER/SPEAKER SW]



US, Canadian model

STR-V55

STR-V55

US, Canadian model

F

G

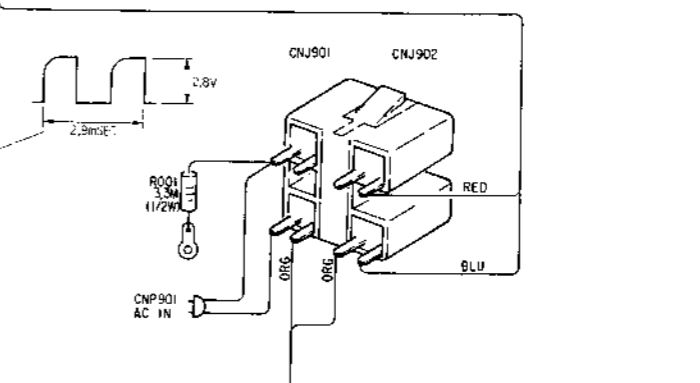
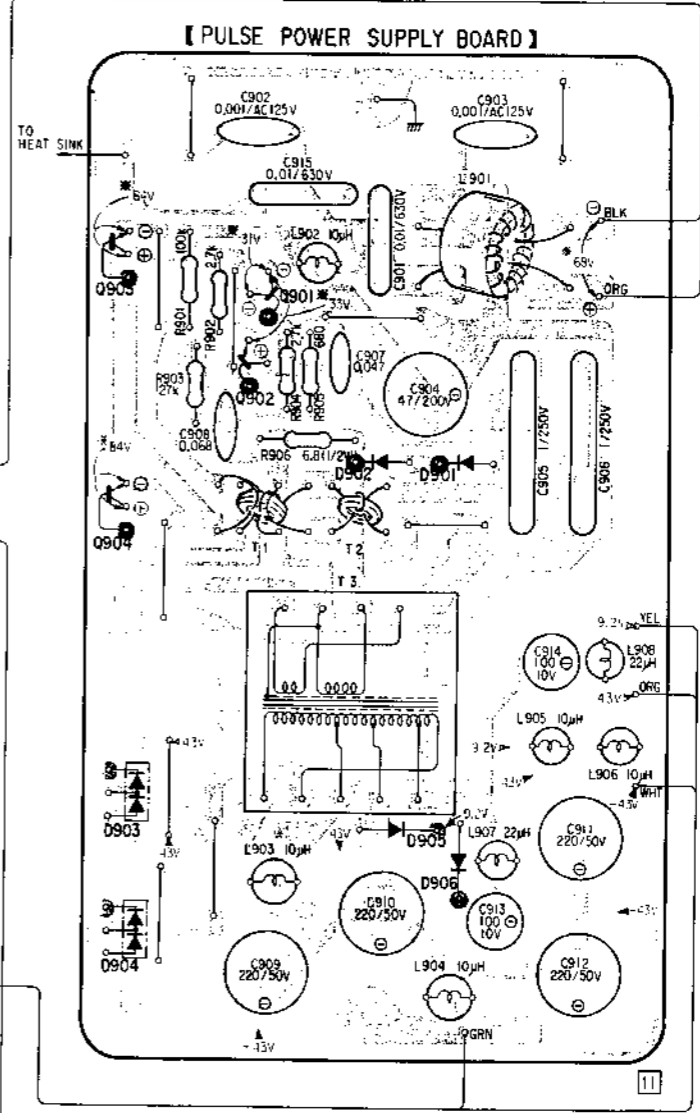
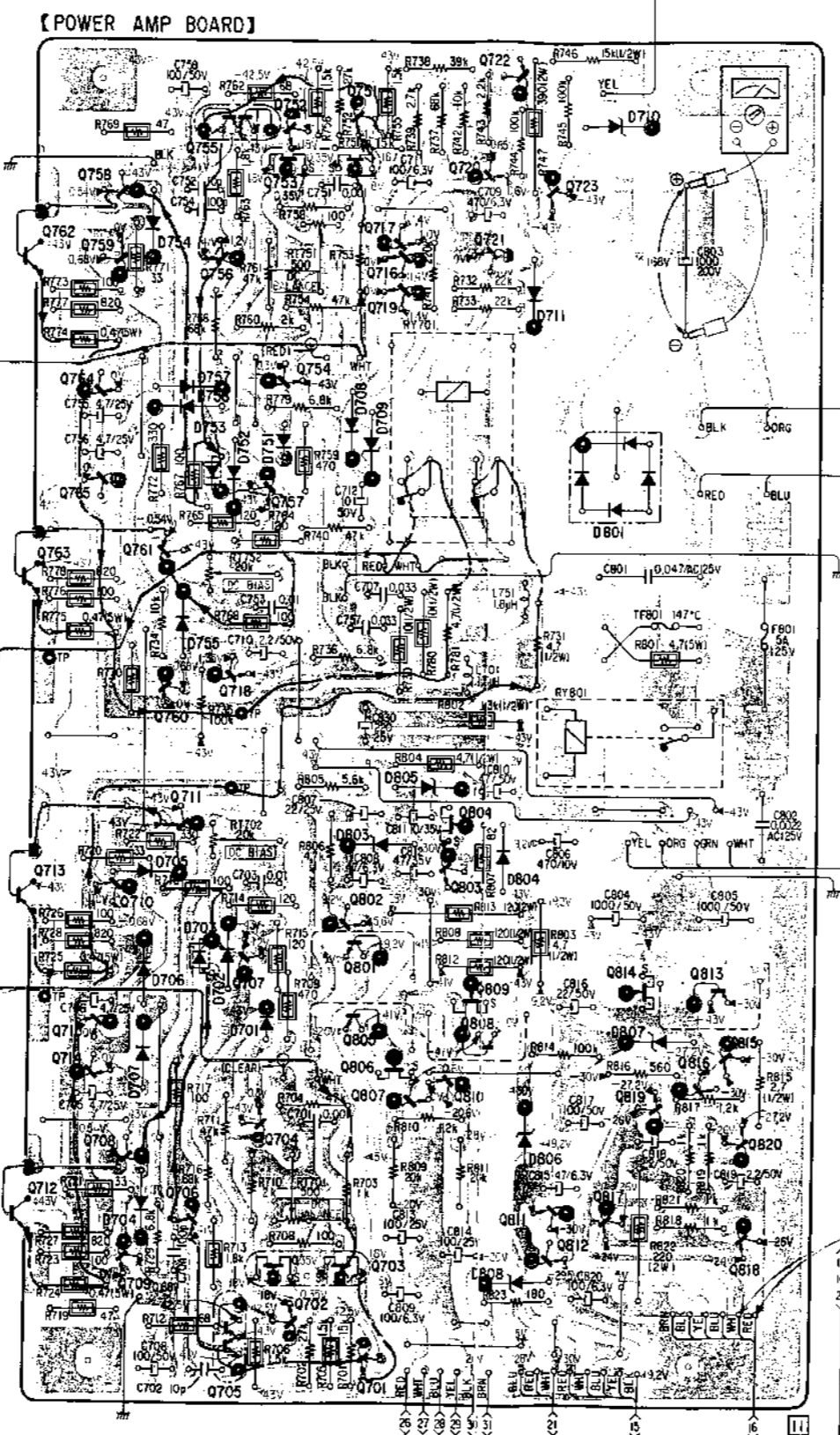
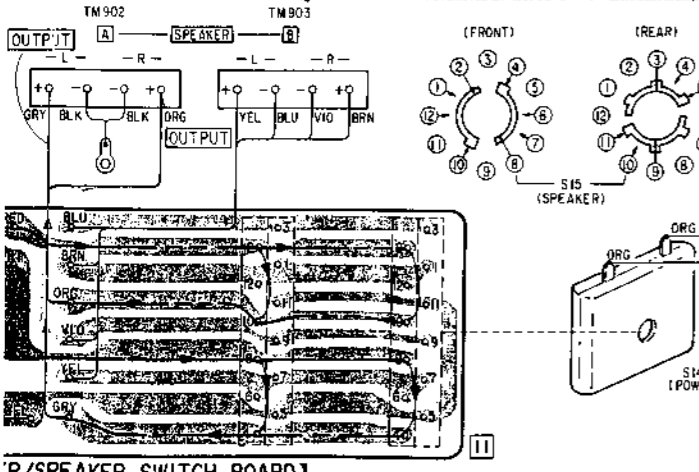
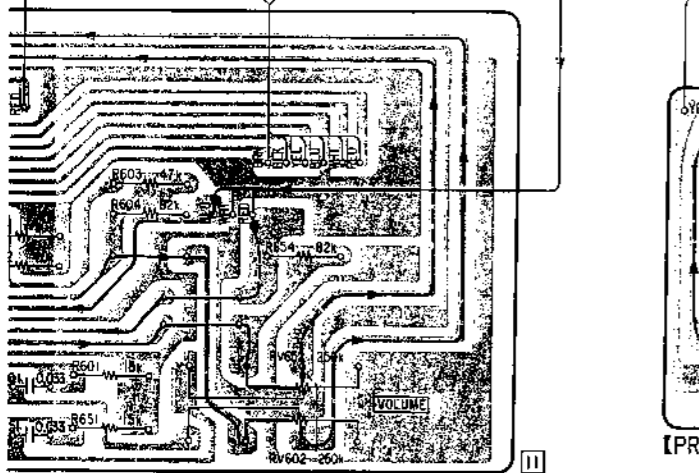
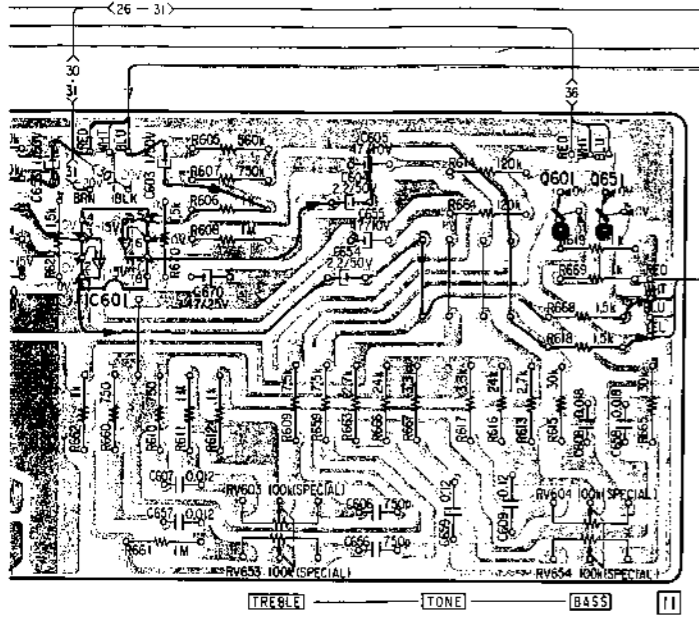
H

15, 16, 21

J

K

L



Q	D
722	
751	710
755,752	
753,720	754
758	723
762	903
759,717	901
756,716	721
719	711
	902
754	
764	757, 902, 901
	756
904	751, 708, 709
765, 757	801, 753, 752
761	
763	755
	718
760	903
	905
	906
711	805
713, 803	804
710	706, 804
802	
707, 801	703, 702
809, 814	706
813	
715, 805, 808	701
815	807
714, 806	707
810	
807, 819	
704	806
708	
712	811, 817
706	812, 818
709	703
	808
702	
705	701
Q	D

1

2

3

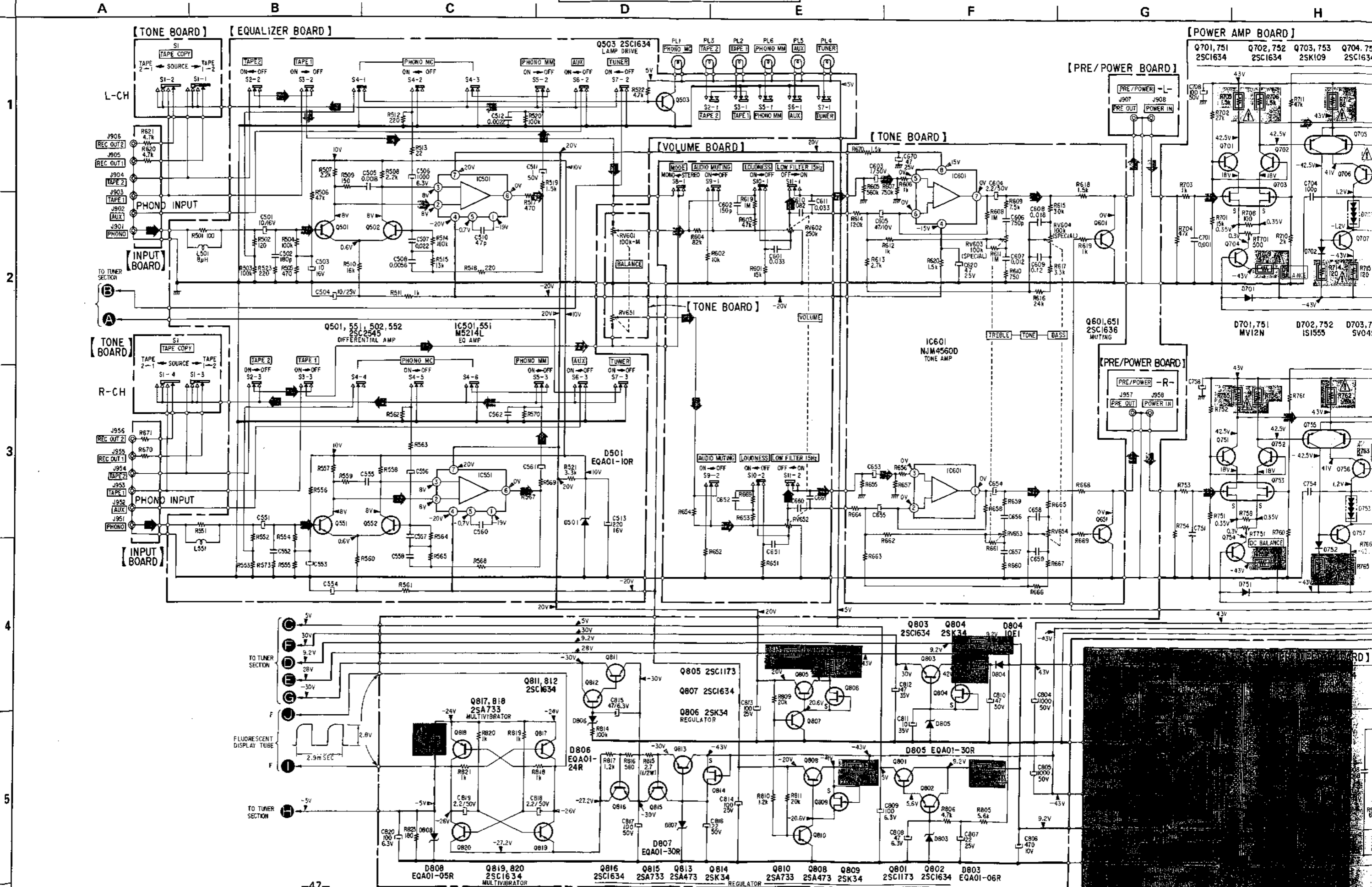
4

5

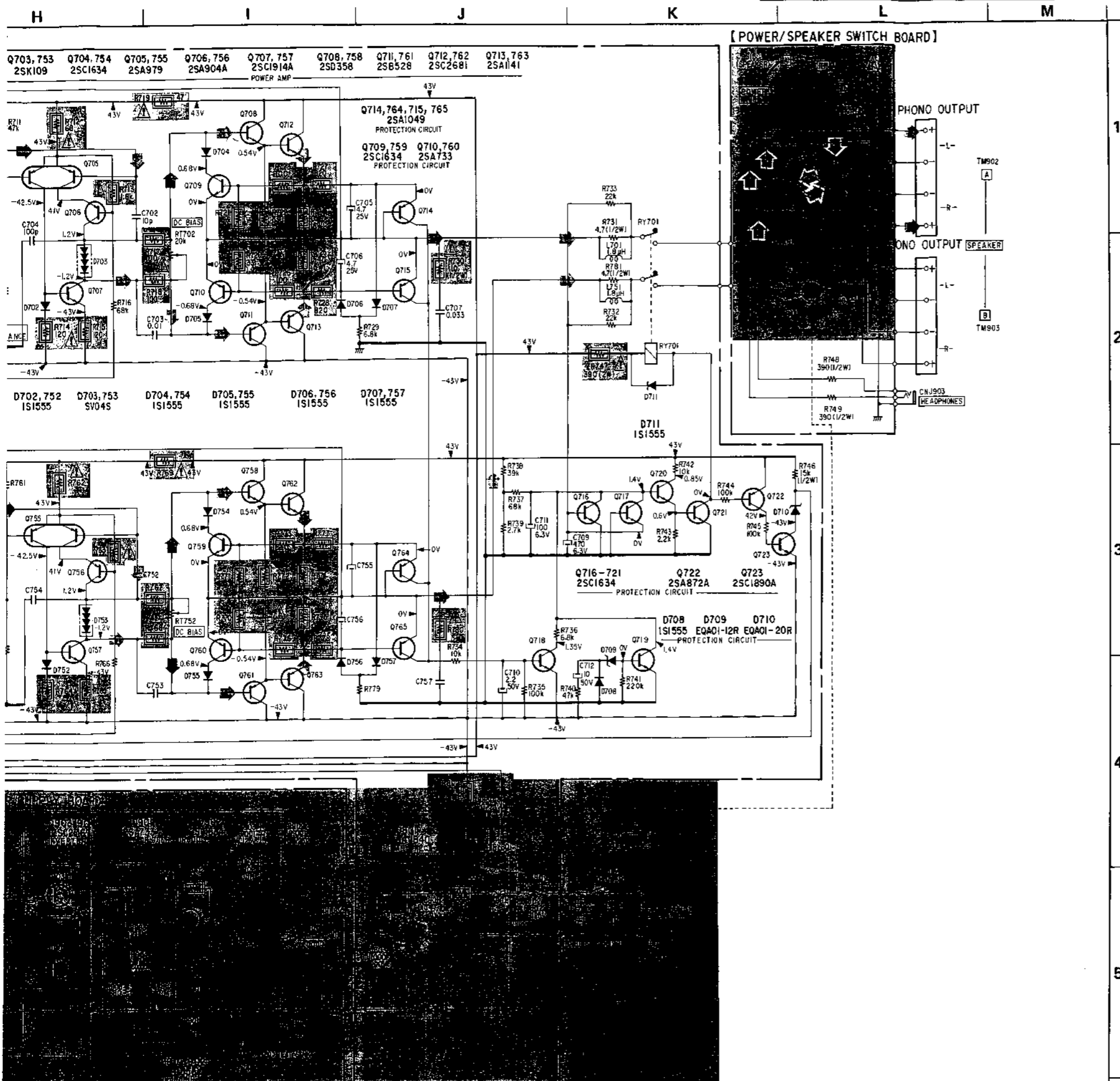
IC 601 Q 601 Q 651

4.4. SCHEMATIC DIAGRAM (2)
 - Amp Section - (US, Canadian model)

US, Canadian model STR-V55 STR-V55 US, Canadian model



US, Canadian model **STR-V55** **STR-V55** US, Canadian model



- Components for right channel have same values as for left channel. Reference numbers are 50 higher than L-CH.
- 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 ohms, $\frac{1}{2}\text{W}$ unless otherwise noted. $\text{k}\Omega$: 1000Ω , $\text{M}\Omega$: $1000\text{k}\Omega$
- \square : nonflammable resistor.
- \square : panel designation.
- \square : adjustment for repair.
- --- : B+ bus.
- --- : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions in FM mode with a VOM (20 $\text{k}\Omega/\text{V}$).
- Voltage variations may be noted due to normal production tolerances.
- \rightarrow : signal path
- Switch

Ref. No.	Switch	Position
S1	TAPE COPY	SOURCE
S2	TAPE 2	OFF
S3	TAPE 1	OFF
S4	PHONO MC	OFF
S5	PHONO MM	ON
S6	AUX	OFF
S7	TUNER	OFF
S8	MODE	STEREO
S9	AUDIO MUTING	OFF
S10	LOUDNESS	OFF
S11	LOW FILTER 15Hz	OFF
S14	POWER	OFF
S15	SPEAKERS	A

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

Note: 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.

4-5. MOUNTING DIAGRAM (3) - Tuner Section -
- Conductor Side -
(AEP, UK, E model)

AEP, UK, E model

STR-V55

STR-V55

AEP, UK, E model

A

B

C

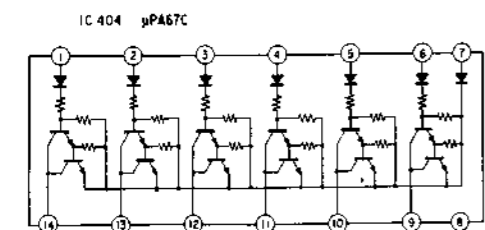
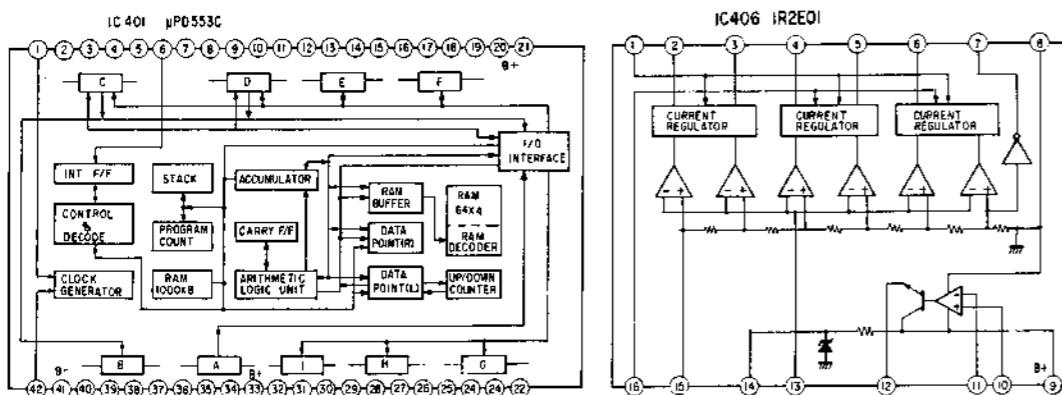
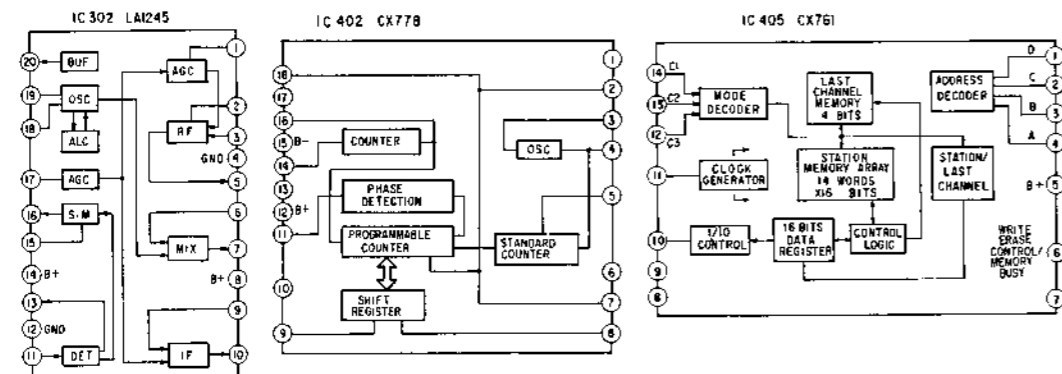
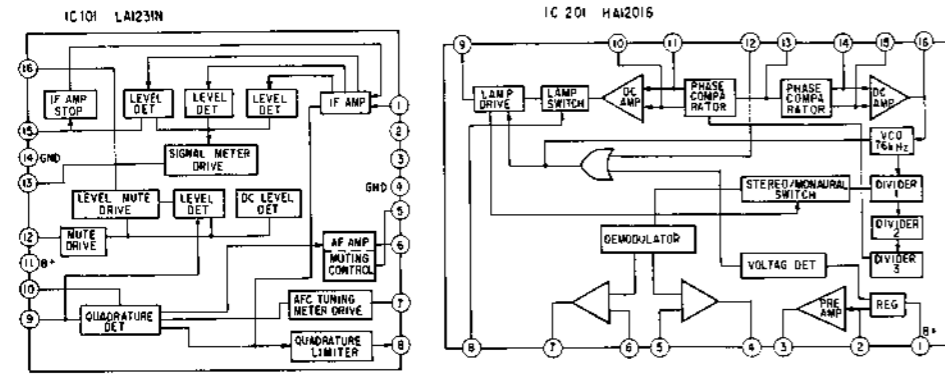
D

E

F

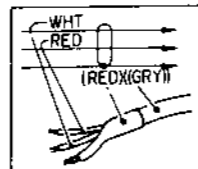
G

H



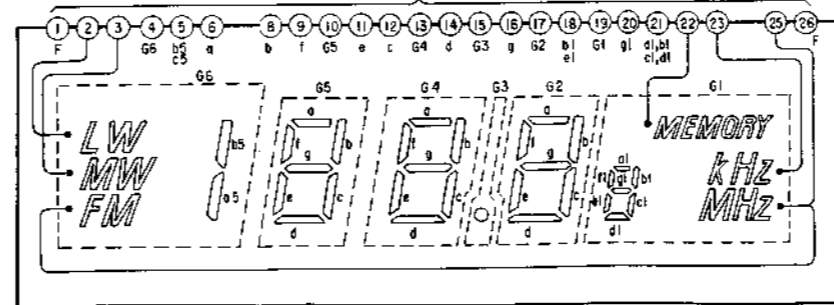
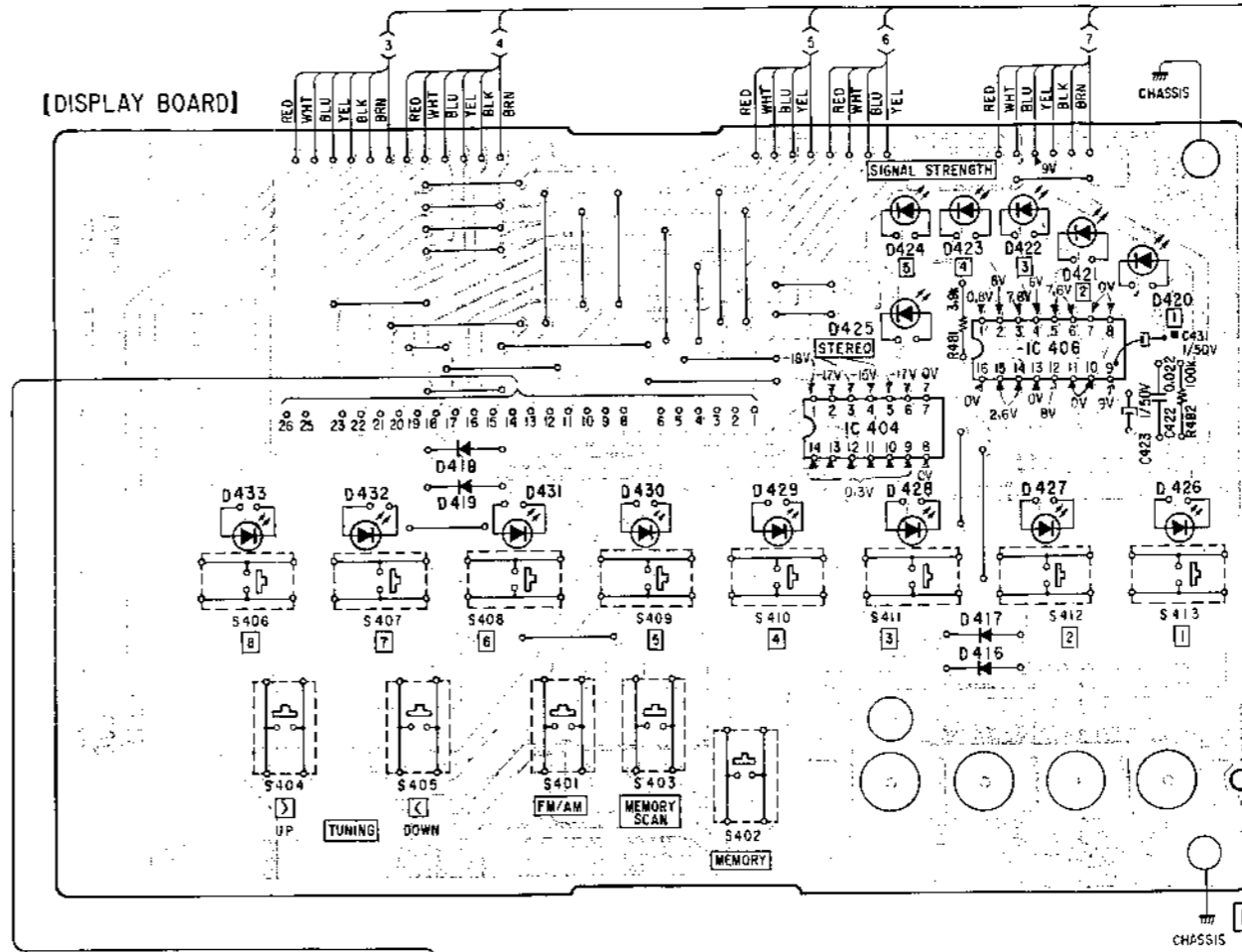
Note:

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

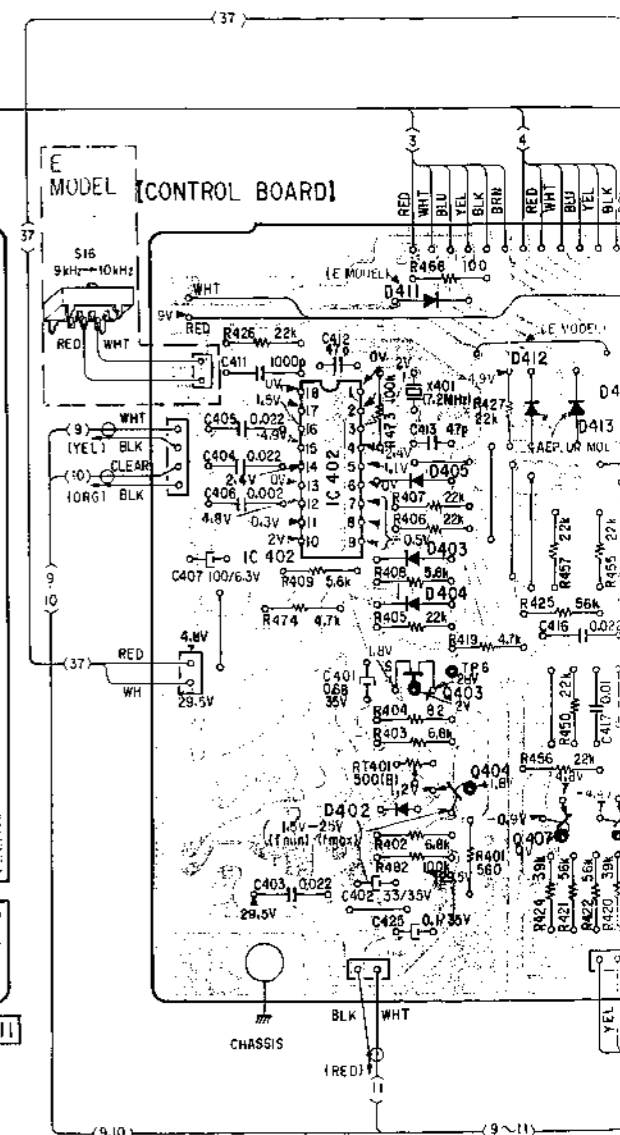


- [] : indicates side identified with part number.
- ——— : signal path
- ——— : L-CH signal path
- ——— : R-CH signal path
- B + pattern

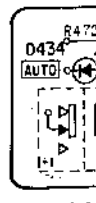
[DISPLAY BOARD]



FLD 401 FLUORESCENT DISPLAY TUBE



[SWITCH BOARD]



	IC 404				IC 406				IC 402					
Q														
IC										403		407	406	
										404				
D	433	432	418 431	430	429	424	423	424	421	420	411	412	413	410
			419			425					405			
						428					403			
											404			434
											402			

H

I

J

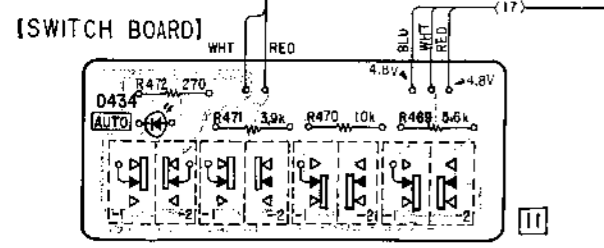
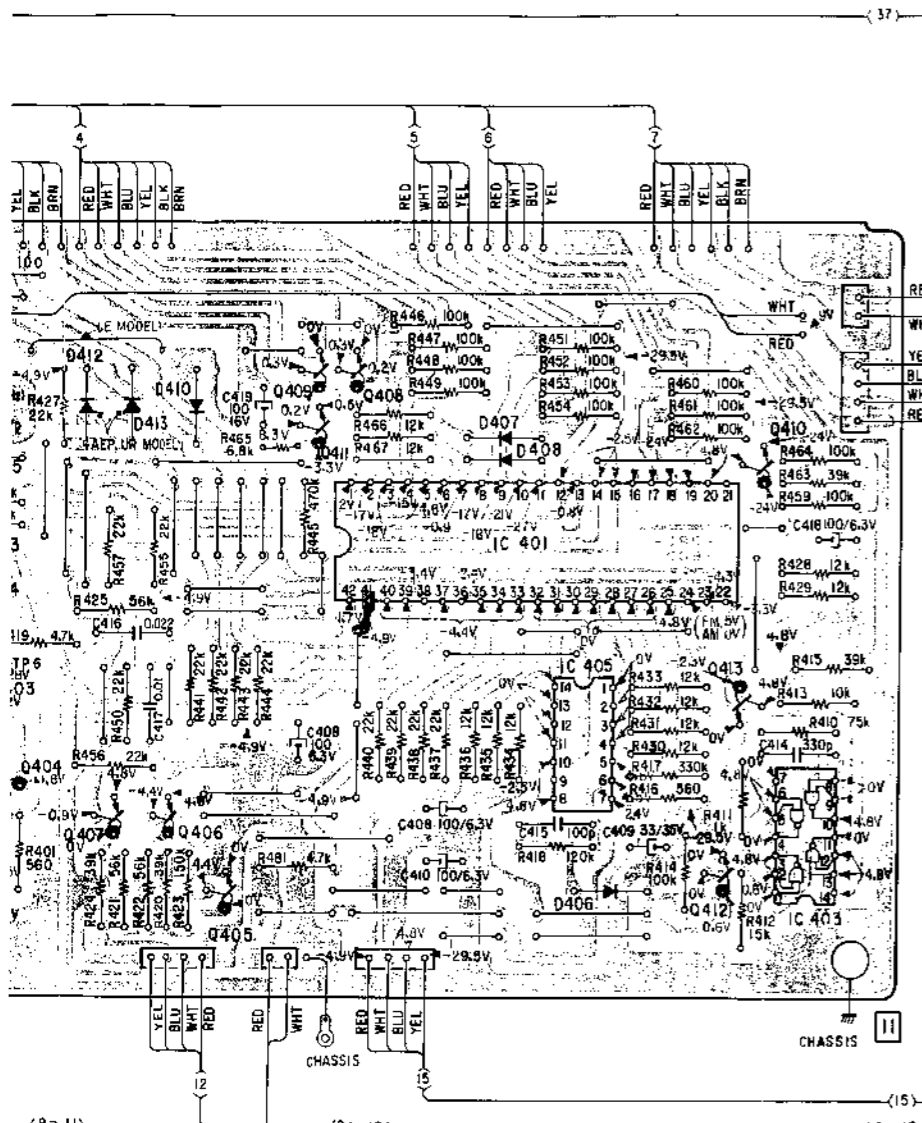
K

L

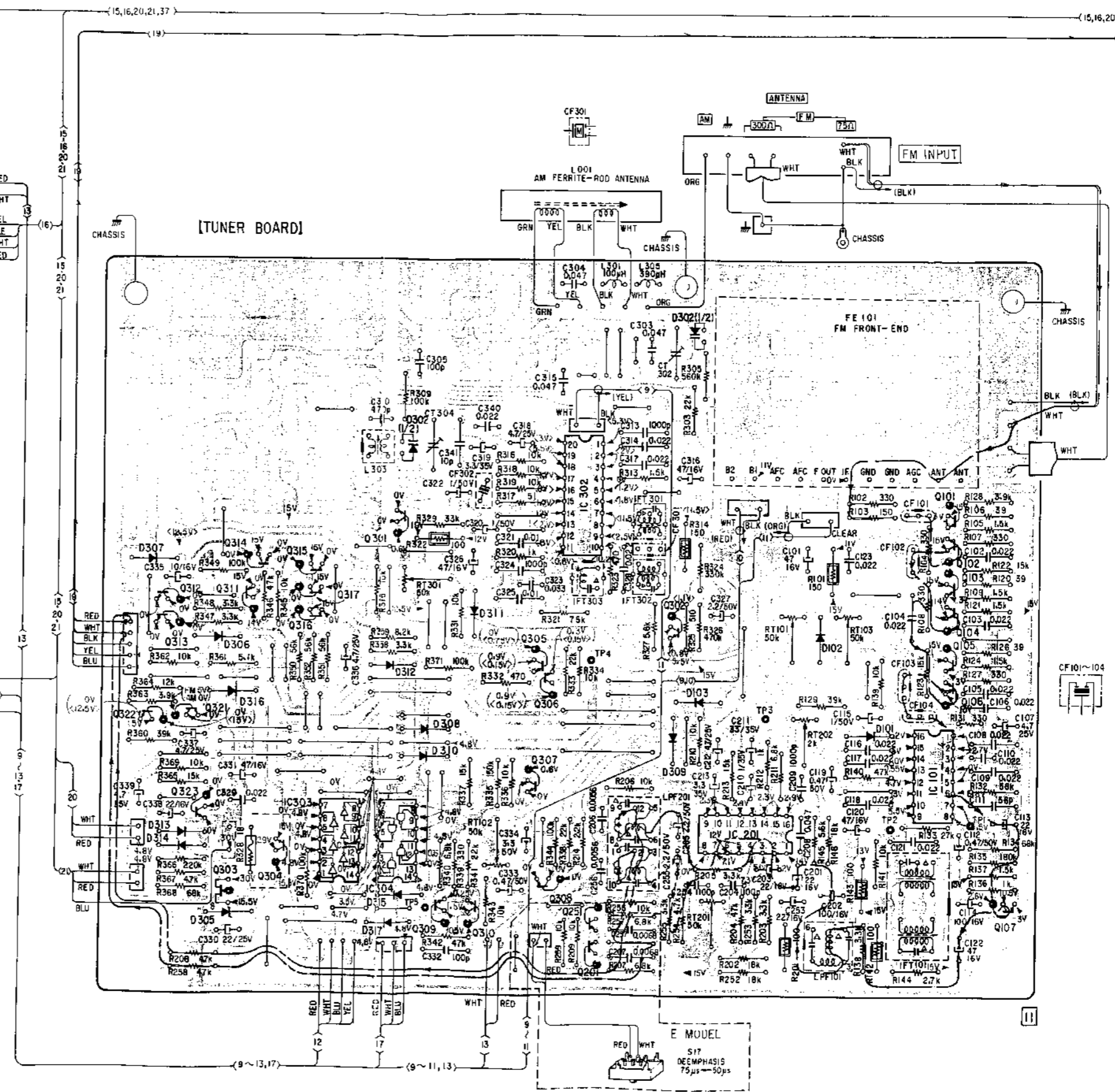
M

N

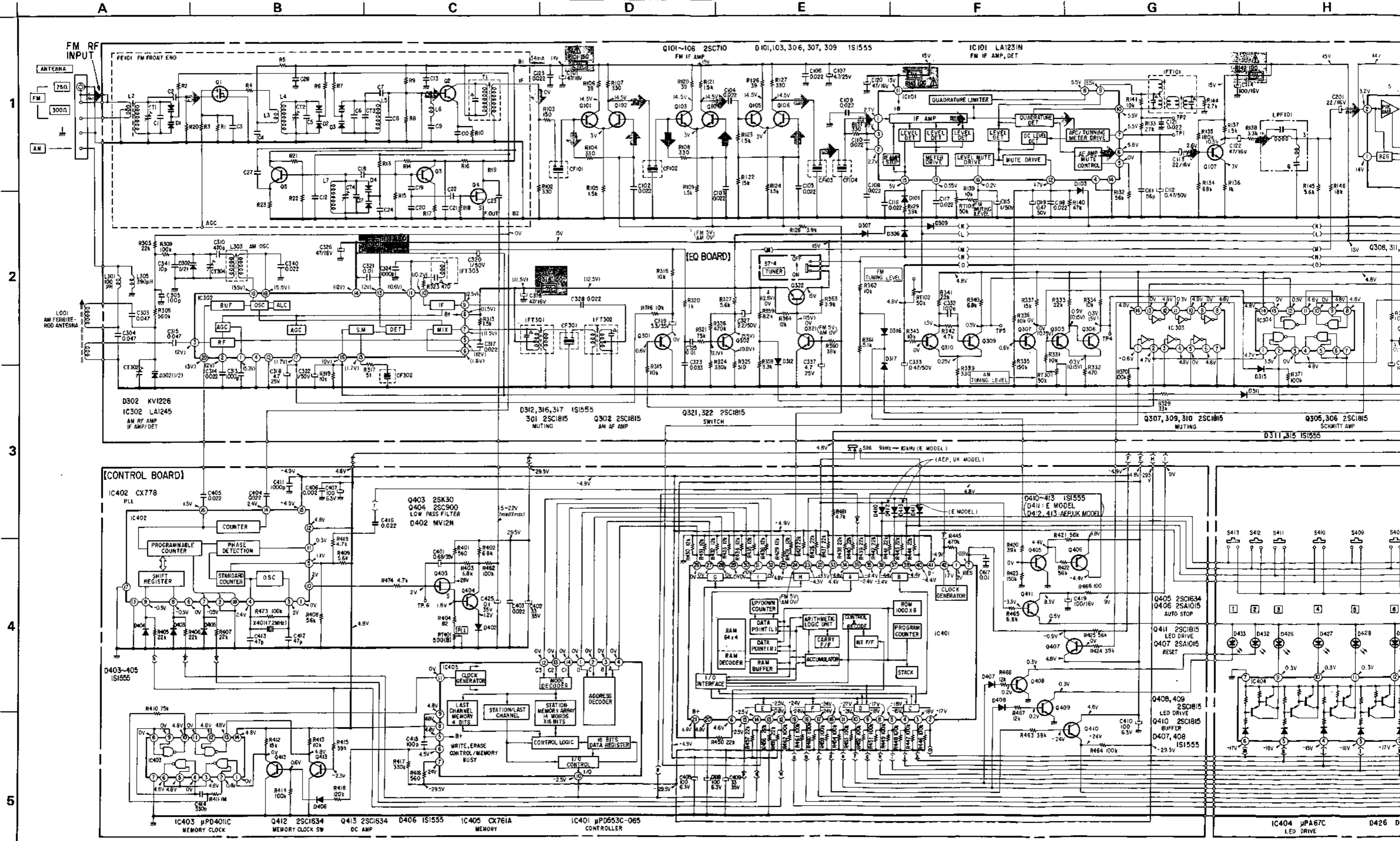
O

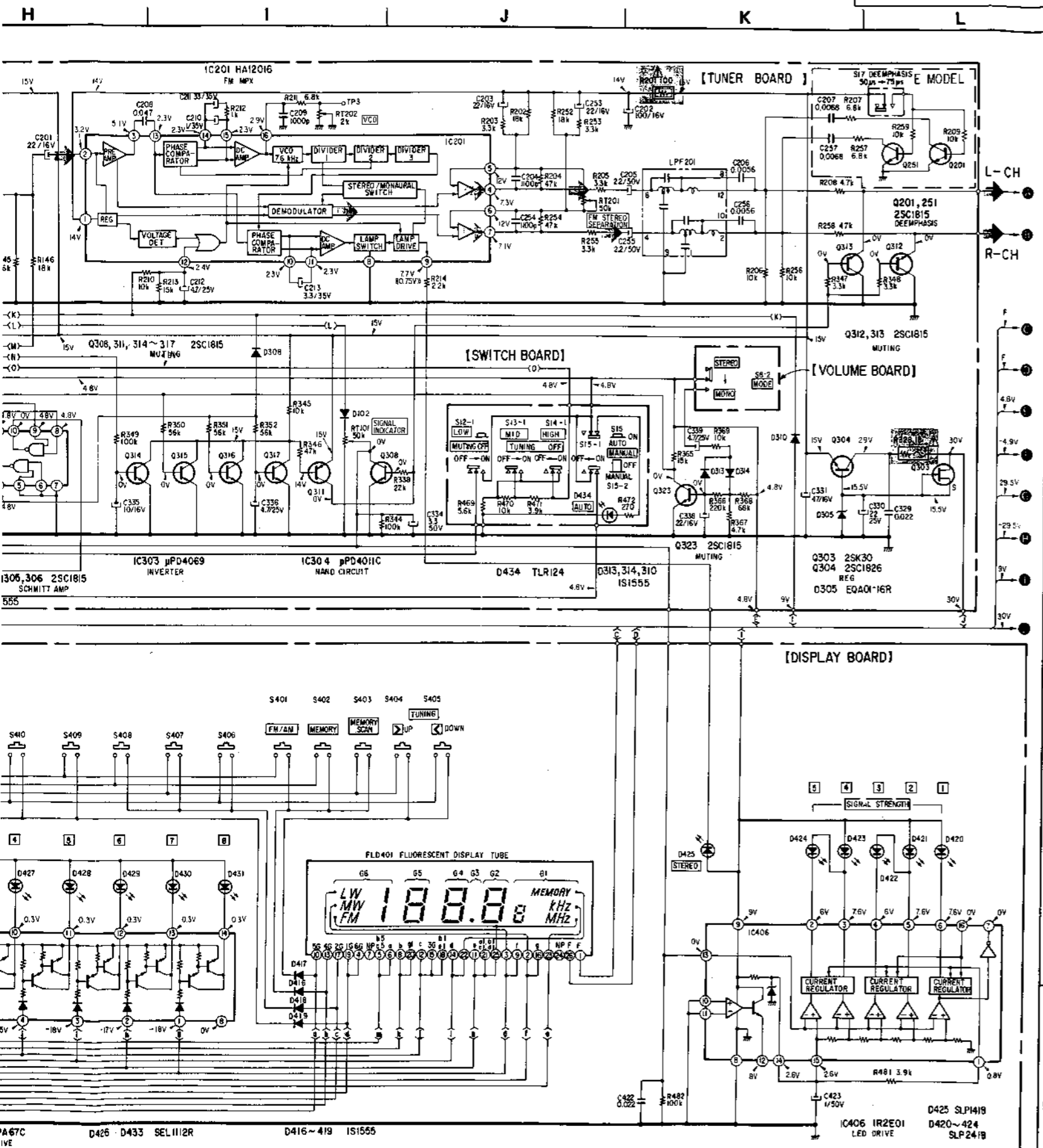


407	406	405	409	411	408	410	413	Q
412	413	410	407	408	406	IC 401	412	IC
434			406			IC 405	412	IC 403
								D



Q	IC	D
		302(1/2)
		302(1/2)
		307
314		311
315		306 102
312, 311, 317		312
316	104	316 103
313	302	308, 309
305		310
306	105	313
	106	314
321		
322		
		305
		308
		309
		107
		315
		305
		317
		201





Note:

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$
- Δ : internal component.
- \square : panel designation.
- \square : adjustment for repair.
- --- : B+ bus.
- --- : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (20 $\text{k}\Omega/\text{V}$).
- [] : FM STEREO
 () : AM
 no mark : FM

- Voltage variations may be noted due to normal production tolerances.
- \blackrightarrow : signal path
- Switch

Ref. No.	Switch	Position
S7	TUNER	ON
S12	MUTING OFF (LOW)	OFF
S13	TUNING OFF (MID)	OFF
S14	TUNING OFF (HIGH)	ON
S15	MANUAL	ON (AUTO)
S401	FM/AM	OFF
S402	MEMORY	OFF
S403	MEMORY SCAN	OFF
S404	TUNING (UP)	OFF
S405	TUNING (DOWN)	OFF
S406-413	Preset (1 - 8)	OFF

Replacement Semiconductors

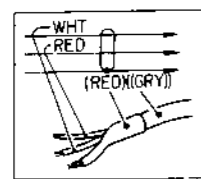
2SA1015 	2SC1986 	HA12016 	SEL1112R 	TLR124
2SA1027R 	2SK30 2SK30A 2SA30A-GR3 	LA1245 	SLP1413B SLP241B 	
2SC710 	CA1231N IR2E01 CA1231 	$\mu\text{PA}67\text{C}$ 	1S1555 	
2SC900 2SC1362 2SC1364 2SC1634 2SC1815 	CX761A MB84069B $\mu\text{PD}4069$ $\mu\text{PD}4011\text{C}$ 	$\mu\text{PD}553\text{C}-065$ 	EQA01-16R EQB01-16 	
2SC1826 	CX778 	KV1226 	MV12N 	

4-7. MOUNTING DIAGRAM (4) - Amp Section - (AEP, UK, E model)

Replacement Semiconductors

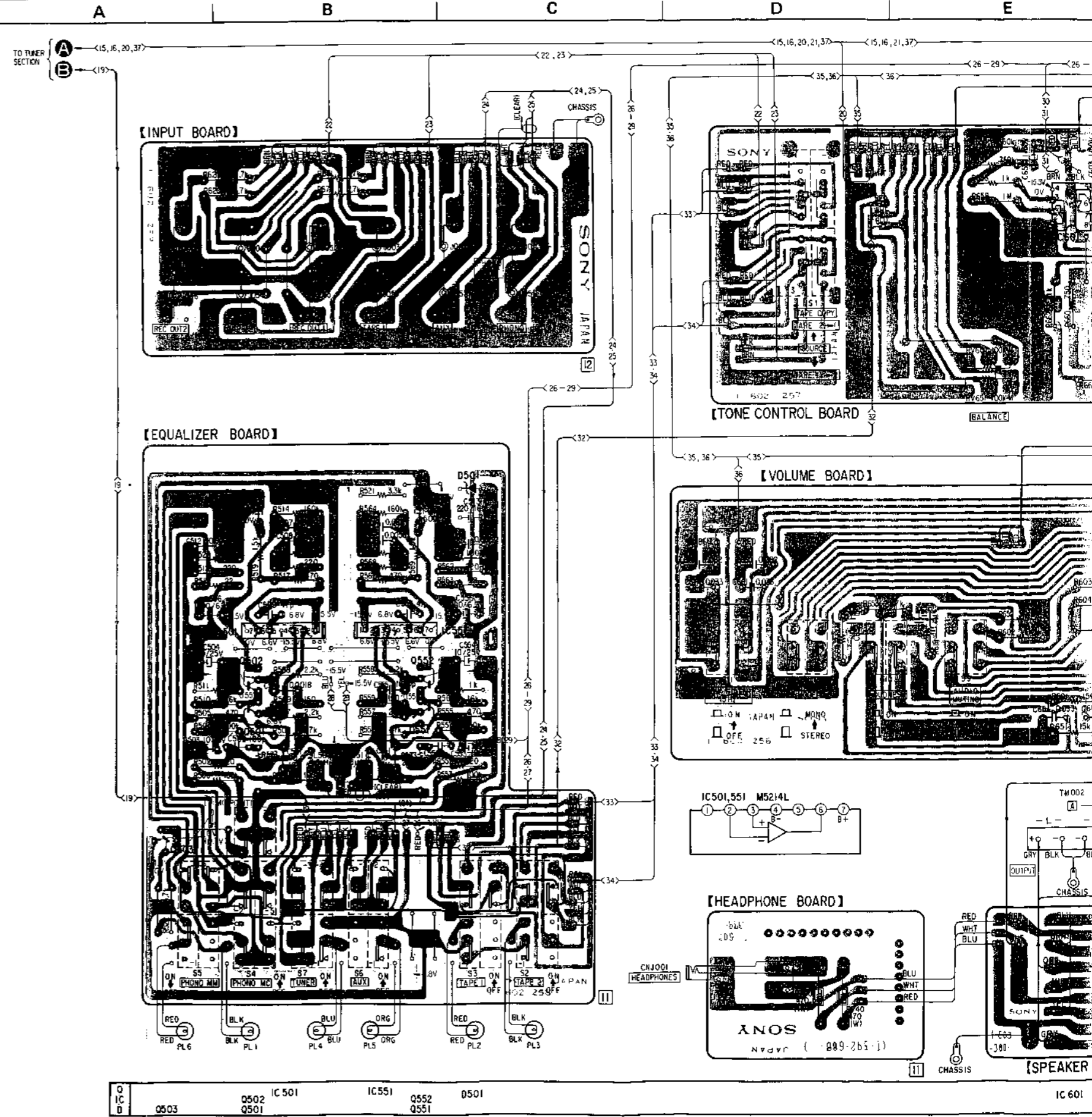
<p>2SA473</p>	<p>2SC1173</p>	<p>2SD358</p>	<p>1S1555 10E1 10E2 RD27E-B RD27E-B22</p>
<p>2SA979</p>	<p>2SC1364 2SC1634 2SC2545 V09C</p>	<p>2SK34</p>	<p>CTU-2U CTU-22U</p>
<p>2SA1026 2SA1027R</p>	<p>2SC1914</p>	<p>HA12002</p>	<p>EQA01-05R EQA01-06R EQA01-10R EQA01-30R EQB01-05 EQB01-06 EQB01-10 EQB01-30</p>
<p>2SA1049</p>	<p>2SC2542 2SC2542A</p>	<p>M5214L</p>	<p>NJM4560D</p>
<p>2SA1141</p>	<p>2SC2681</p>	<p>S4VB40</p>	<p>MV12N</p>
<p>2SB528</p>	<p>2SC2725</p>	<p>SV04S</p>	

Note:
• Color code of sleeving over the end of the jacket.

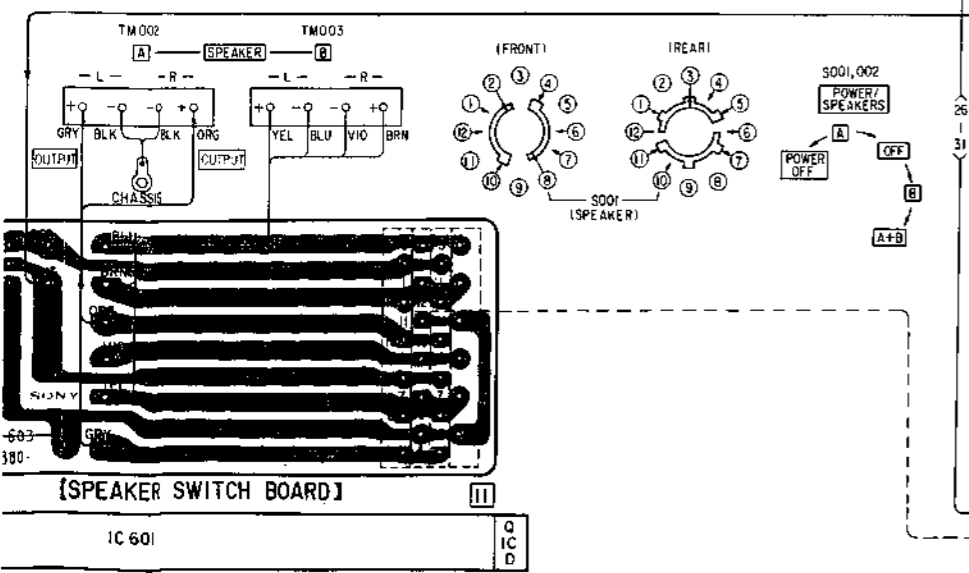
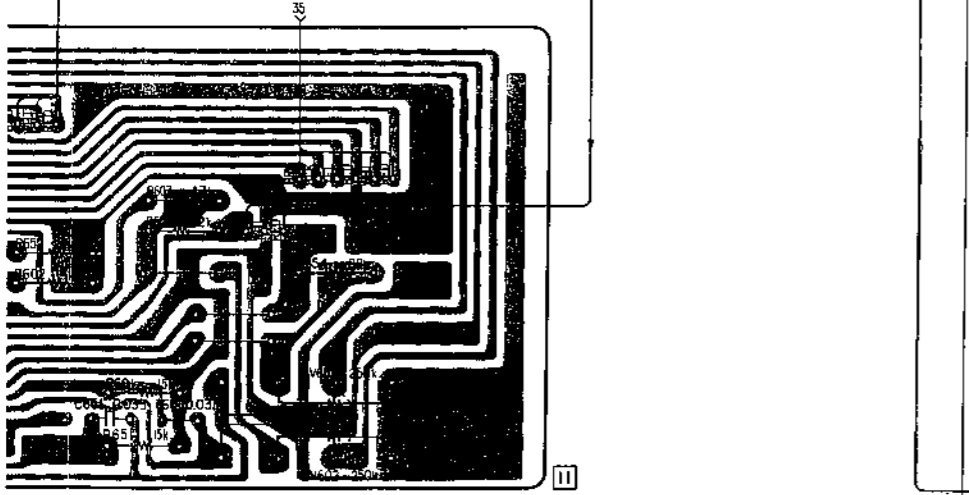
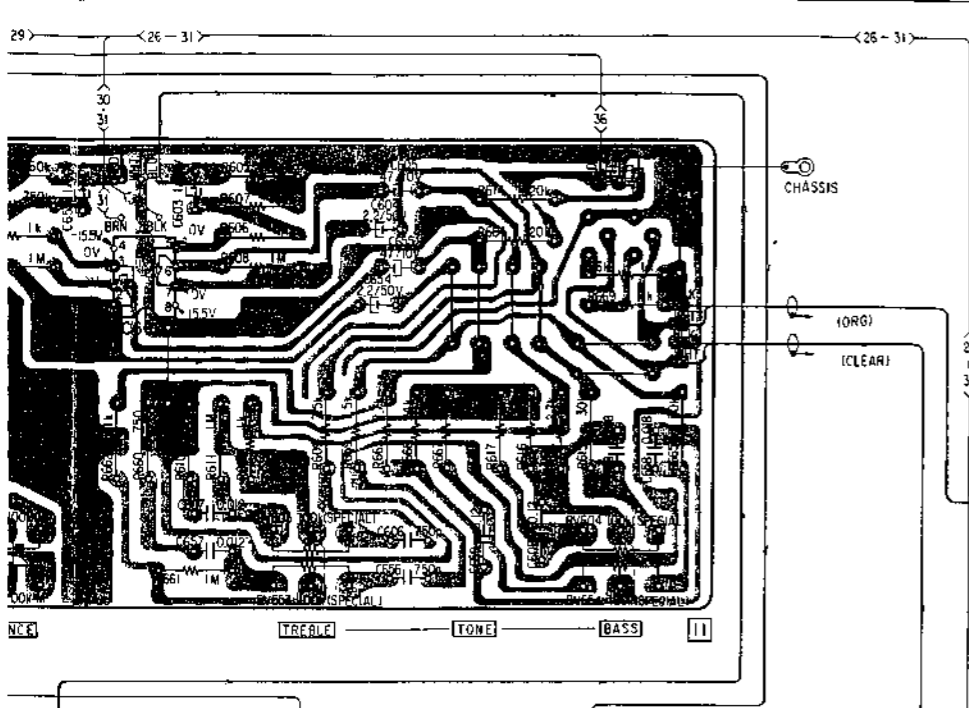


- ———— : signal path
- ———— : L-CH signal path
- ———— : R-CH signal path
- ———— : B+ pattern

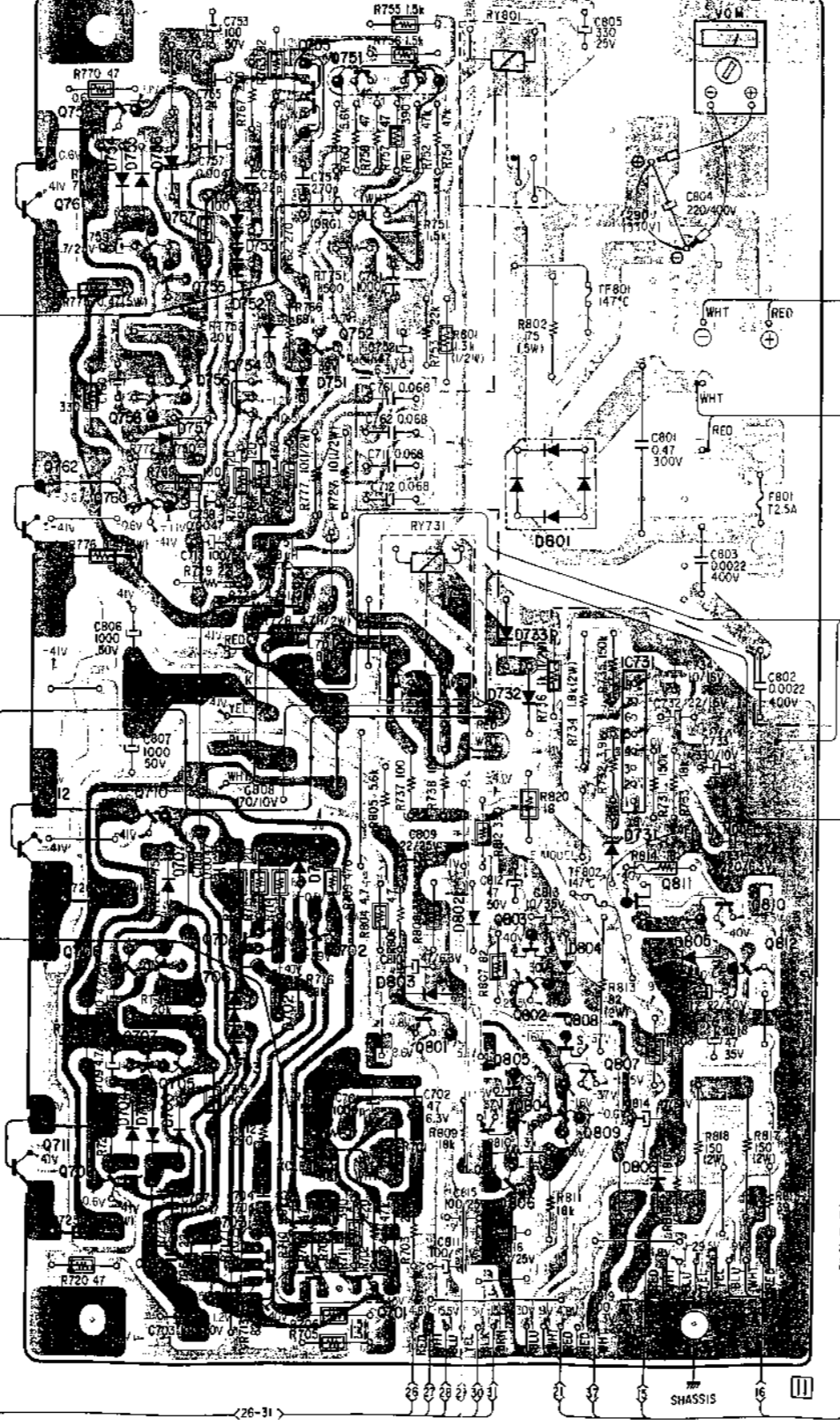
• [] : indicates side identified with part number.



E F G H I J K L M

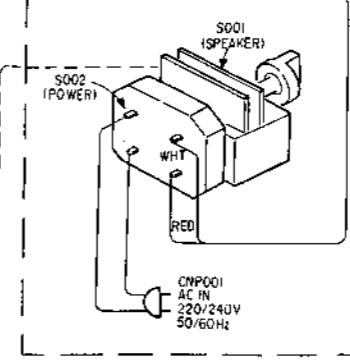
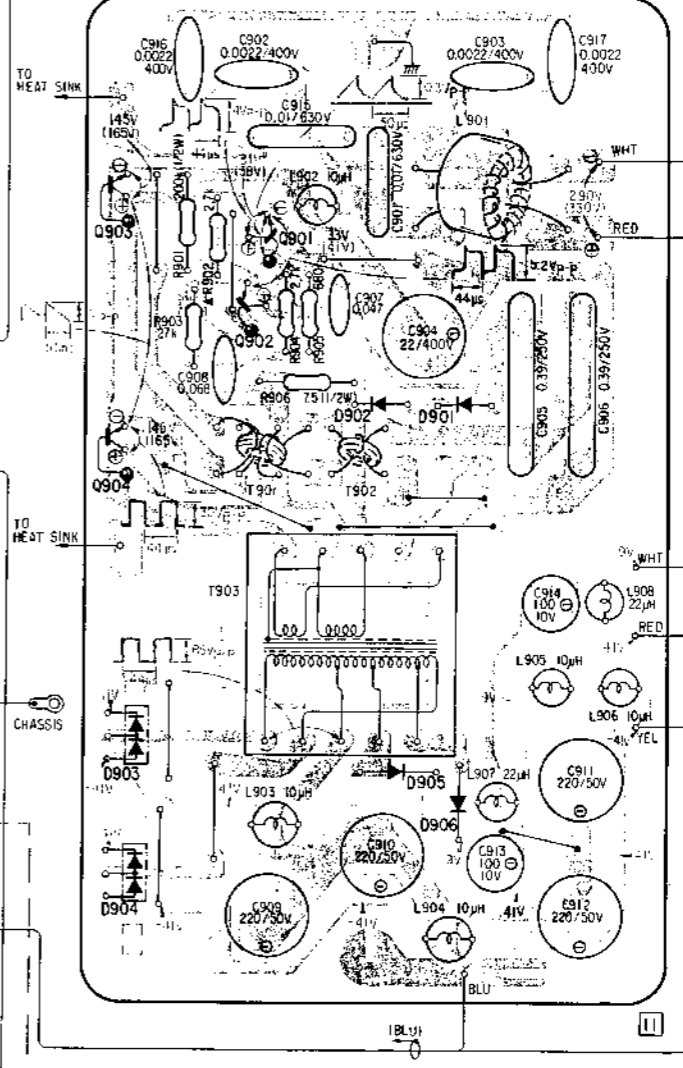


【POWER AMP BOARD】



AEP, UK MODEL

【PULSE POWER SUPPLY BOARD】 (COMPONENT SIDE)



IC, Q	D
751	
753	
759	
761	903 756
	901 754, 755
757	753
755	902
752	752
	902, 901
756	754
758	904 751
	757
	801
760	
762	
	733 903
	732 905
	906
	IC731
710	
712	
	731
811, 810	701
	707
	802
704, 702, 803	805
708, 706 812	804
802	
810	702, 803
808	703
707, 705 807	
805	
804, 809	704, 705, 706
711	806
709	
	703
701	
0	0

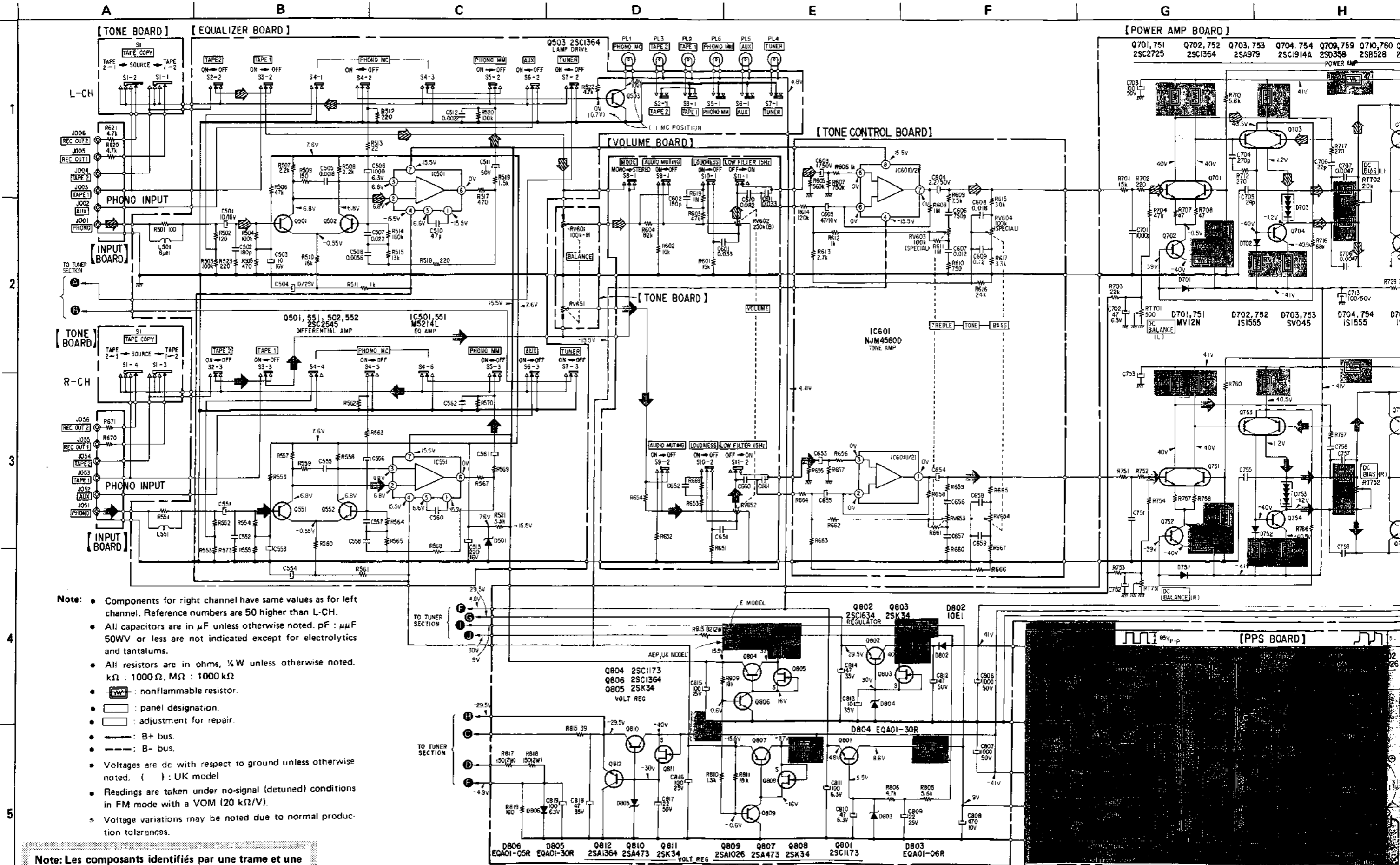
4-8. SCHEMATIC DIAGRAM (4)

- Amp Section - (AEP, UK, E model)

AEP, UK, E model

STR-V55 STR-V55

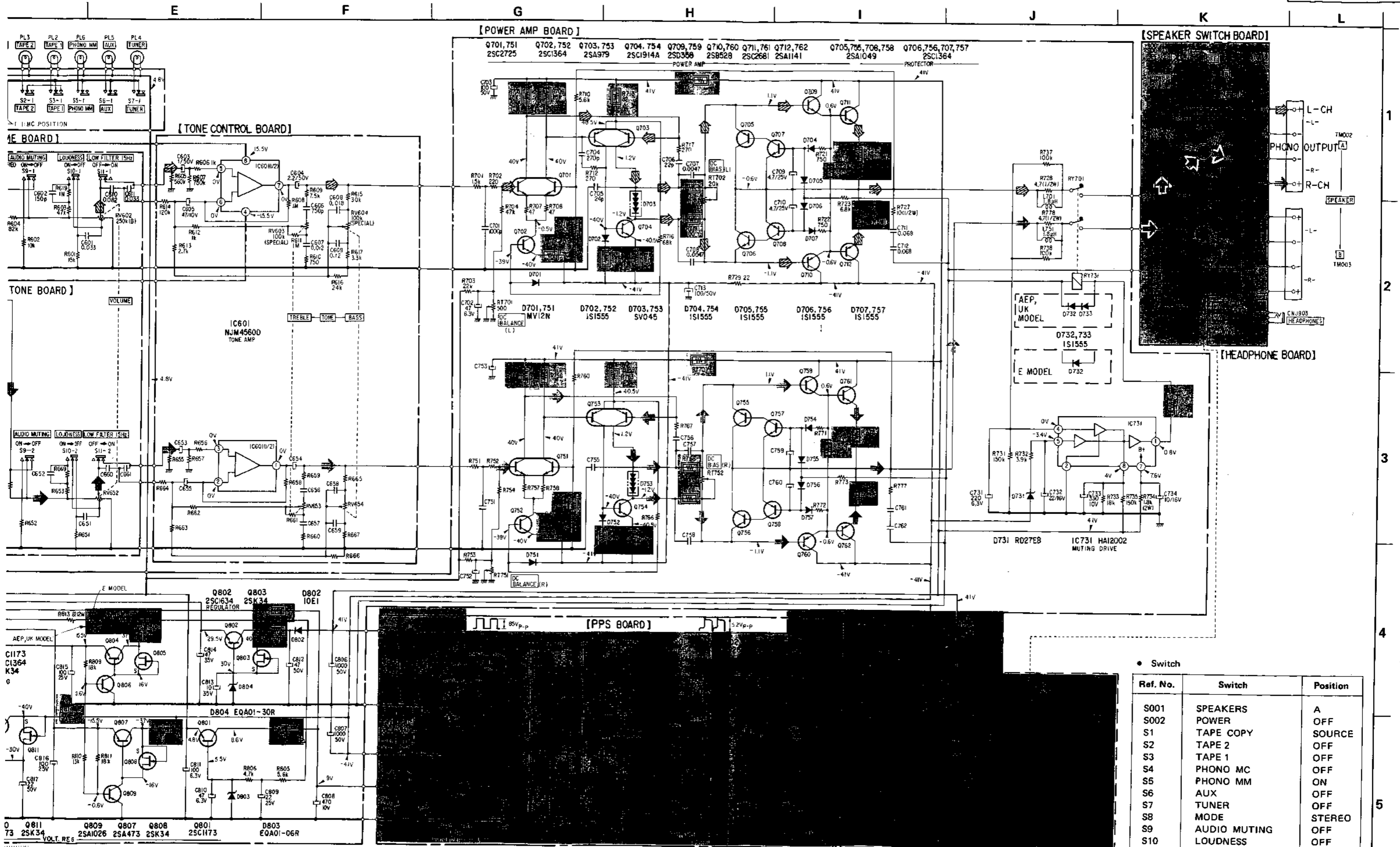
AEP, UK, E model



- Note:**
- Components for right channel have same values as for left channel. Reference numbers are 50 higher than L-CH.
 - All capacitors are in μF unless otherwise noted. pF : μM F 50V or less are not indicated except for electrolytics and tantalums.
 - All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$
 - : nonflammable resistor.
 - : panel designation.
 - : adjustment for repair.
 - : B+ bus.
 - : B- bus.
 - Voltages are dc with respect to ground unless otherwise noted. () : UK model
 - Readings are taken under no-signal (detuned) conditions in FM mode with a VOM (20 $\text{k}\Omega/\text{V}$).
 - Voltage variations may be noted due to normal production tolerances.

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



• Switch

Ref. No.	Switch	Position
S001	SPEAKERS	A
S002	POWER	OFF
S1	TAPE COPY	SOURCE
S2	TAPE 2	OFF
S3	TAPE 1	OFF
S4	PHONO MC	OFF
S5	PHONO MM	ON
S6	AUX	OFF
S7	TUNER	OFF
S8	MODE	STEREO
S9	AUDIO MUTING	OFF
S10	LOUDNESS	OFF
S11	LOW FILTER 15Hz	OFF

• → : R-CH ◻ : L-CH

A

B

C

D

E

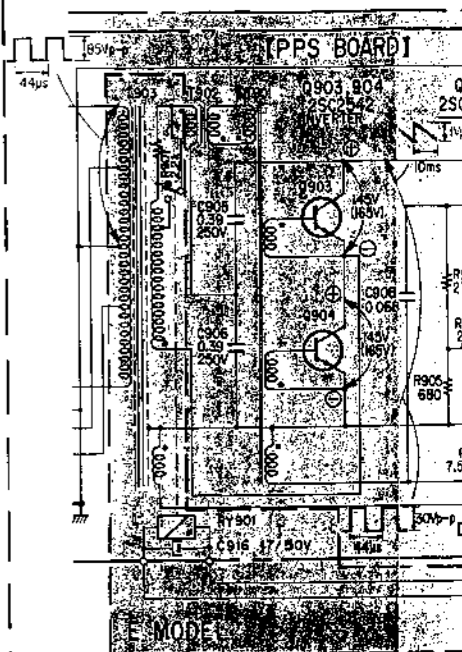
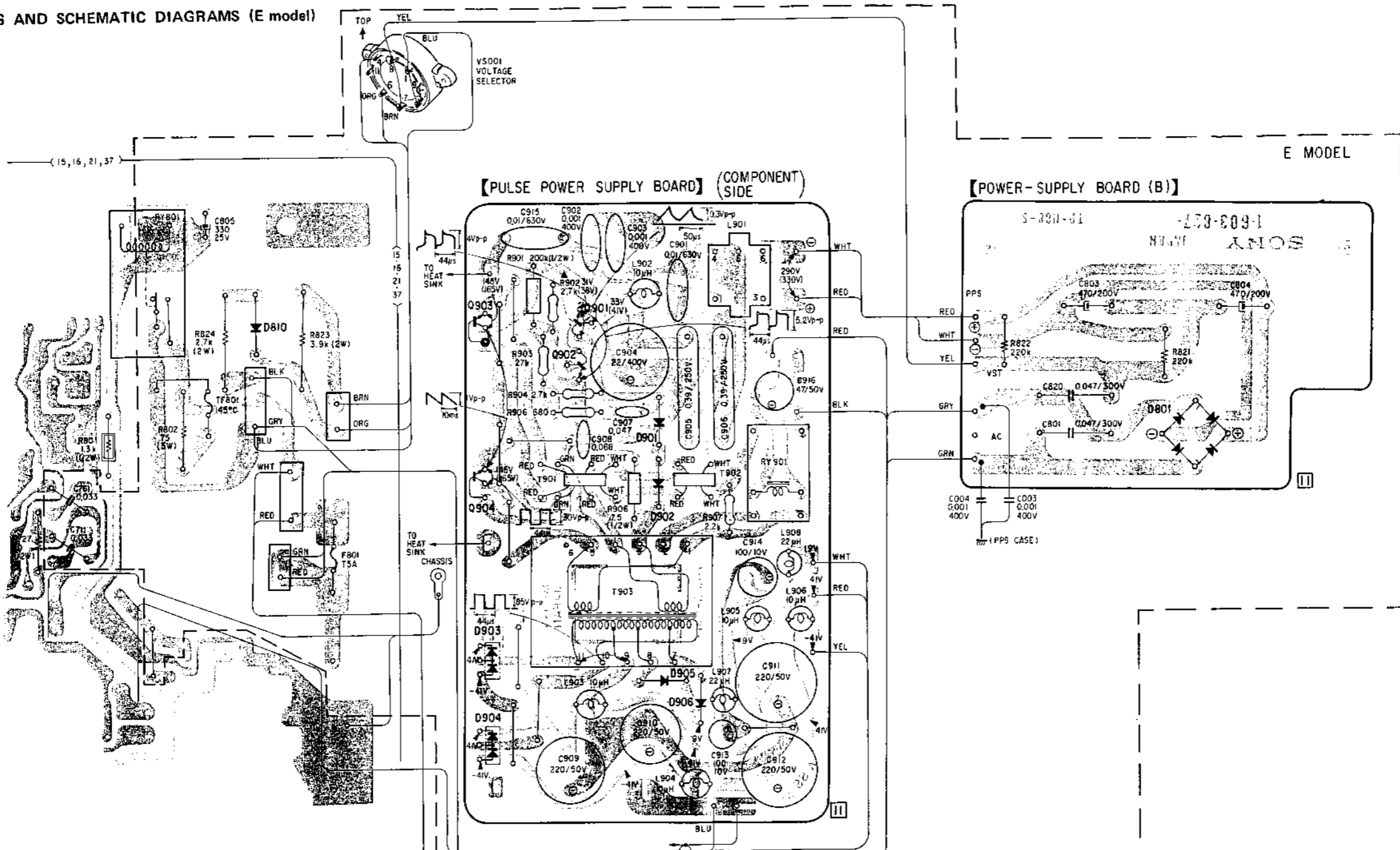
F

G

H

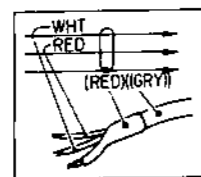
4-9. MOUNTING AND SCHEMATIC DIAGRAMS (E model)

D	Q
810	901
	903
	902
	901
	801
	904
	902
	903
	905
	906
	904



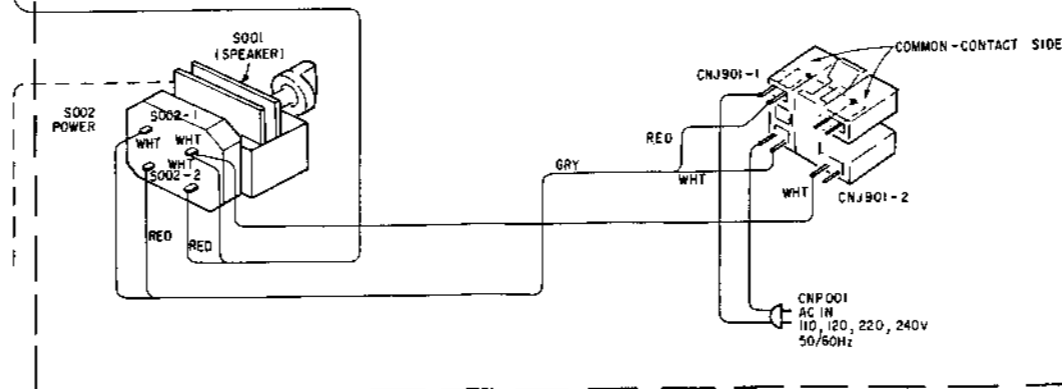
Note:

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

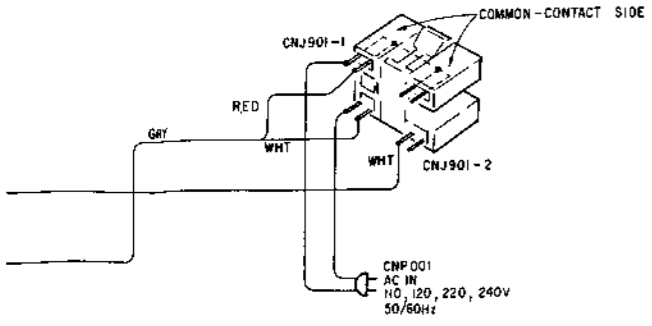
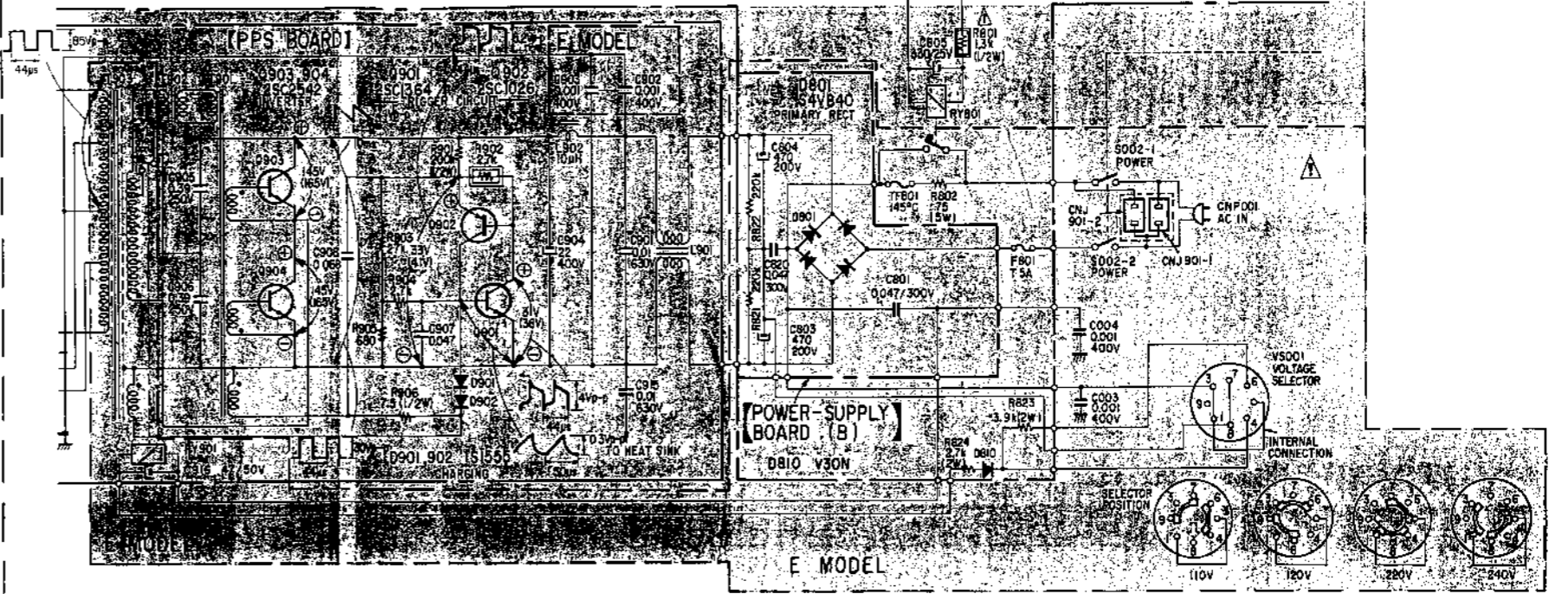
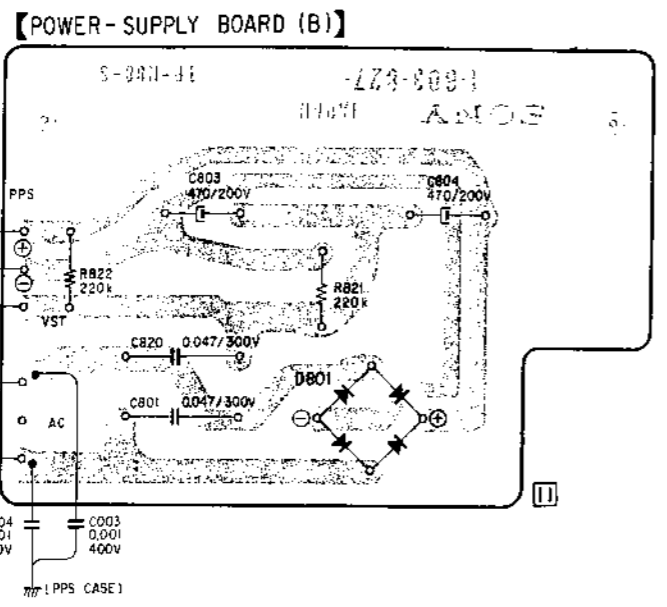
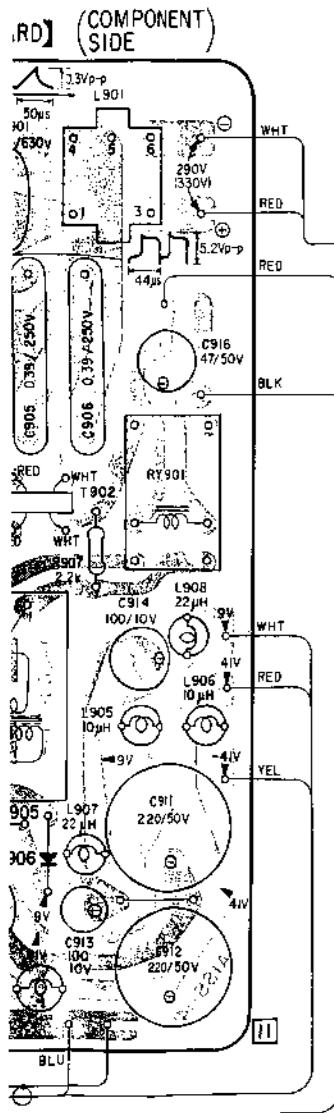



- [Symbol] : indicates side identified with part number.


- [Symbol] : B+ pattern



D E F G H I J K



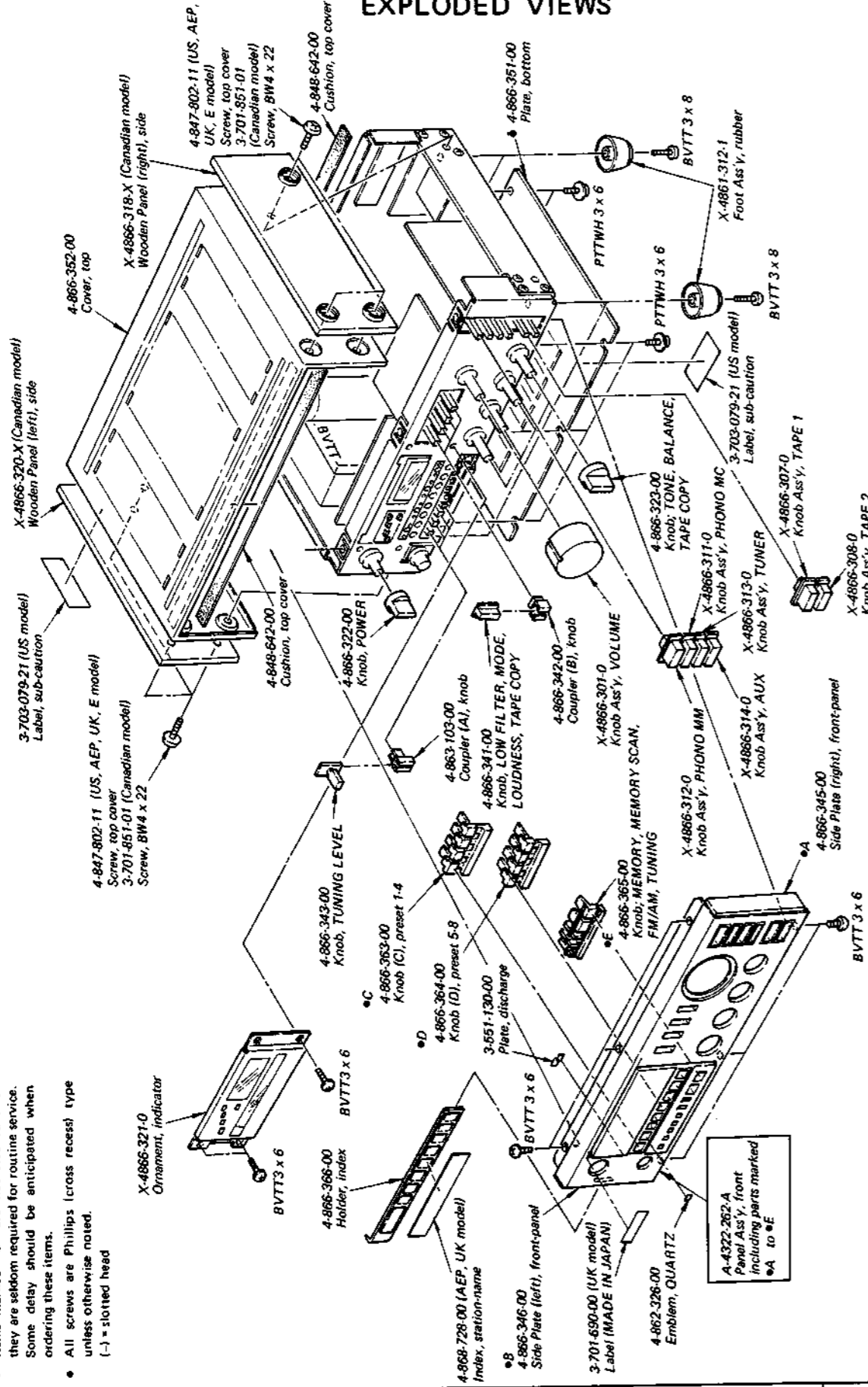
Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

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.

SECTION 5
EXPLODED VIEWS

A B C D E

- Note:
- Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - All screws are Phillips (cross recess) type unless otherwise noted.
 - (-) = slotted head

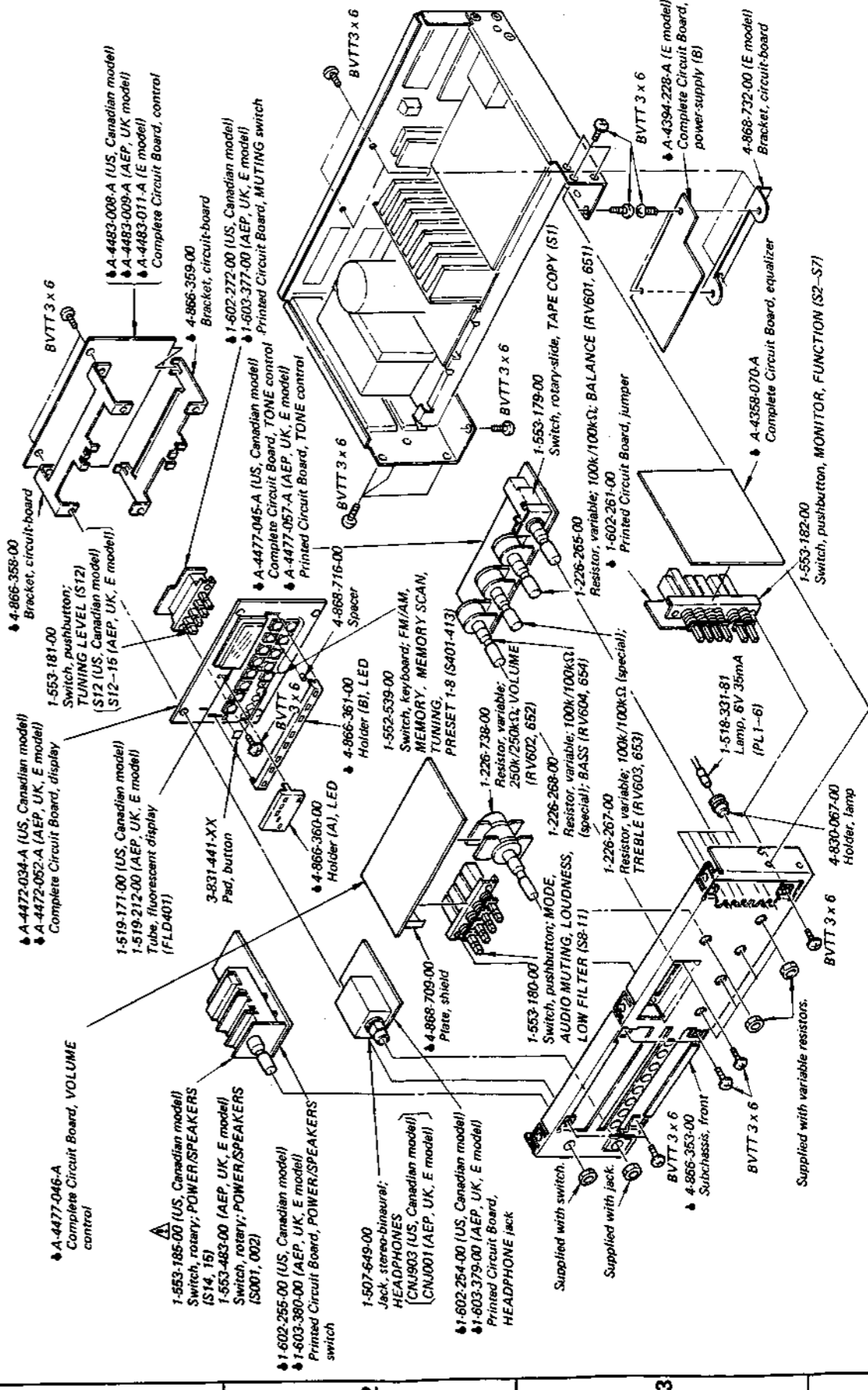


Note: The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

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

A B C D E

(2)



Supplied with variable resistors.

**SECTION 6
ELECTRICAL PARTS LIST**

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
SEMICONDUCTORS											
Transistors											
Q101-104	8-729-671-14	2SC710	Q414, 415	8-729-663-47	2SC1364 (US, Canadian model)	Q805	8-729-217-33	2SC1173 (US, Canadian model)	IC401	8-759-155-21	μPB552C (US, Canadian model)
Q105, 106	8-729-671-14	2SC710 (AEP, UK, E model)	Q501, 551	8-729-354-52	2SC2545	Q806	8-729-634-03	2SK34 (AEP, UK, E model)	IC402	8-759-153-65	μPD553C-065 (AEP, UK, E model)
Q107	8-729-663-47	2SC1364 (AEP, UK, E model)	Q502, 552			Q806	8-729-634-03	2SK34 (US, Canadian model)	IC403	8-759-128-19	μPD2819C (US, Canadian model)
Q201-207	8-729-663-47	2SC1364 (US, Canadian model)	Q503	8-729-663-47	2SC1364	Q807	8-729-247-33	2SA473 (AEP, UK, E model)	IC403	8-759-607-78	CX778 (AEP, UK, E model)
Q208	8-729-201-52	2SA1015 (US, Canadian model)	Q601, 651	8-761-622-00	2SC1636 (US, Canadian model)	Q807	8-729-663-47	2SC1364 (US, Canadian model)	IC403	8-759-140-69	μPD4069C (US, Canadian model)
Q301, 302	8-729-663-47	2SC1364	Q701, 751	8-729-663-47	2SC1364 (US, Canadian model)	Q808	8-729-634-03	2SK34 (AEP, UK, E model)	IC404	8-759-140-01	μPD4001C (US, Canadian model)
Q303	8-729-203-04	2SK30A (AEP, UK, E model)	Q702, 752	8-729-672-52	2SC2725 (AEP, UK, E model)	Q809	8-729-612-77	2SA1027R (AEP, UK, E model)	IC404	8-759-100-67	μPA67C (AEP, UK, E model)
Q303	8-729-663-47	2SC1364 (US, Canadian model)	Q703, 753	8-729-663-47	2SC1364	Q809	8-729-634-03	2SK34 (US, Canadian model)	IC405	8-759-152-37	μPD552C037 (US, Canadian model)
Q304	8-729-398-62	2SC1986 (AEP, UK, E model)	Q703, 753	8-729-610-92	2SK109 (US, Canadian model)	Q810	8-729-612-77	2SA1027R (US, Canadian model)	IC405	8-757-611-00	CX761A (AEP, UK, E model)
Q304	8-729-663-47	2SC1364 (US, Canadian model)	Q703, 753	8-729-697-92	2SA979 (AEP, UK, E model)	Q810	8-729-247-33	2SA473 (AEP, UK, E model)	IC406	8-757-611-00	CX761A (US, Canadian model)
Q305-308	8-729-663-47	2SC1364	Q704, 754	8-729-663-47	2SC1364 (US, Canadian model)	Q811	8-729-663-47	2SC1364 (US, Canadian model)	IC406	8-759-920-10	1R2E01 (AEP, UK, E model)
Q309	8-729-203-04	2SK30A (US, Canadian model)	Q704, 754	8-729-601-42	2SC1914A (AEP, UK, E model)	Q811	8-729-634-03	2SK34 (AEP, UK, E model)	IC407	8-759-100-67	μPA67C (US, Canadian model)
Q309	8-729-663-47	2SC1364 (AEP, UK, E model)	Q705, 755	8-729-697-92	2SA979 (US, Canadian model)	Q812	8-729-663-47	2SC1364	IC501, 551	8-759-652-14	M5214L
Q310	8-729-308-72	2SC1986D (US, Canadian model)	Q705, 755	8-729-204-91	2SA1049 (AEP, UK, E model)	Q813	8-729-247-33	2SA473 (US, Canadian model)	IC601	8-759-745-60	NJM4560D
Q310	8-729-663-47	2SC1364 (AEP, UK, E model)	Q706, 756	8-729-609-42	2SA904A (US, Canadian model)	Q814	8-729-634-03	2SK34 (US, Canadian model)	IC731	8-759-320-02	HA12002 (AEP, UK, E model)
Q311	8-729-612-77	2SA1027R (AEP, UK, E model)	Q706, 756	8-729-663-47	2SC1364 (AEP, UK, E model)	Q815	8-729-612-77	2SA1027R (US, Canadian model)	Diodes		
Q311	8-729-663-47	2SC1364 (US, Canadian model)	Q707, 757	8-729-601-42	2SC1914A (US, Canadian model)	Q816	8-729-663-47	2SC1364 (US, Canadian model)	D101	8-719-815-55	1S1555
Q312-317	8-729-663-47	2SC1364 (AEP, UK, E model)	Q707, 757	8-729-663-47	2SC1364 (AEP, UK, E model)	Q817, 818	8-729-612-77	2SA1027R (US, Canadian model)	D102, 103	8-719-815-55	1S1555 (AEP, UK, E model)
Q321, 322	8-729-663-47	2SC1364 (AEP, UK, E model)	Q708, 758	8-729-635-82	2SD358 (US, Canadian model)	Q819, 820	8-729-663-47	2SC1364 (US, Canadian model)	D201-205	8-719-815-55	1S1555 (US, Canadian model)
Q401	8-729-203-04	2SK30A (US, Canadian model)	Q708, 758	8-729-204-91	2SA1049 (AEP, UK, E model)	Q901	8-729-663-47	2SC1364 (AEP, UK, E model)	D301	8-719-912-27	KV1226 (US, Canadian model)
Q402	8-729-377-58	2SC1775 (US, Canadian model)	Q709, 759	8-729-663-47	2SC1364 (US, Canadian model)	Q902	8-729-612-77	2SA1027R (AEP, UK, E model)	D302	8-719-912-27	KV1226 (AEP, UK, E model)
Q403	8-729-203-05	2SK30A-GR3 (AEP, UK, E model)	Q709, 759	8-729-635-82	2SD358 (AEP, UK, E model)	Q903, 904	8-729-954-21	2SC2542 (AEP, UK, E model)	D302	8-719-931-16	EQB01-16 (US, Canadian model)
Q403	8-729-377-58	2SC1775 (US, Canadian model)	Q710, 760	8-729-612-77	2SA1027R (US, Canadian model)	Q903, 904	8-729-976-71	2SC2767 (US, Canadian model)	D303, 304	8-719-815-55	1S1555 (US, Canadian model)
Q404	8-729-665-47	2SC1362 (AEP, UK, E model)	Q710, 760	8-729-652-82	2SB528 (AEP, UK, E model)	ICs					
Q404	8-729-663-47	2SC1364 (US, Canadian model)	Q711, 761	8-729-652-82	2SB528 (US, Canadian model)	IC101	8-759-111-67	μPC1167C (US, Canadian model)	D305	8-719-931-16	EQB01-16 (AEP, UK, E model)
Q405	8-729-201-52	2SA1015 (US, Canadian model)	Q711, 761	8-729-168-11	2SC2681 (AEP, UK, E model)	IC201	8-759-111-61	μPC1161C (US, Canadian model)	D305	8-719-815-55	1S1555 (US, Canadian model)
Q405	8-729-663-47	2SC1364 (AEP, UK, E model)	Q712, 762	8-729-168-11	2SC2681 (US, Canadian model)	IC301	8-759-320-16	HA12016 (AEP, UK, E model)	D306-312	8-719-815-55	1S1555
Q406, 407	8-729-201-52	2SA1015 (AEP, UK, E model)	Q713, 763	8-729-114-11	2SA1141 (AEP, UK, E model)	IC302	8-759-111-78	μPC1178C (US, Canadian model)	D313-317	8-719-815-55	1S1555 (AEP, UK, E model)
Q406, 407	8-729-663-47	2SC1364 (US, Canadian model)	Q714, 715	8-729-114-11	2SA1141 (US, Canadian model)	IC302	8-759-814-16	LB1416 (US, Canadian model)	D401, 402	8-719-815-55	1S1555 (US, Canadian model)
Q408	8-729-201-52	2SA1015 (US, Canadian model)	Q764, 765	8-729-204-91	2SA1049 (US, Canadian model)	IC303	8-759-140-11	μPD4011C (US, Canadian model)	D402	8-719-912-00	MV12N (AEP, UK, E model)
Q408	8-729-663-47	2SC1364 (AEP, UK, E model)	Q716-721	8-729-663-47	2SC1364 (US, Canadian model)	IC303	8-759-984-69	MB84069B (AEP, UK, E model)	D403	8-719-815-55	1S1555
Q408	8-729-201-52	2SA1015 (US, Canadian model)	Q722	8-729-612-77	2SA1027R (US, Canadian model)	IC304	8-759-140-69	μPD4069C (US, Canadian model)	D404-408	8-719-815-55	1S1555 (AEP, UK, E model)
Q409	8-729-663-47	2SC1364	Q723	8-729-309-06	2SC1890A (US, Canadian model)	IC304	8-759-140-11	μPD4011C (AEP, UK, E model)	D409	8-719-815-55	1S1555 (US, Canadian model)
Q410, 411	8-729-201-52	2SA1015 (US, Canadian model)	Q801	8-729-217-33	2SC1173	ICs					
Q410, 411	8-729-663-47	2SC1364 (AEP, UK, E model)	Q802	8-729-663-47	2SC1364	IC101	8-759-111-67	μPC1167C (US, Canadian model)	D410-412	8-719-815-55	1S1555
Q412	8-729-663-47	2SC1364	Q803	8-729-634-03	2SK34 (AEP, UK, E model)	IC201	8-759-812-31	LA1231 (AEP, UK, E model)	D413-415	8-719-311-12	SEL1112R (US, Canadian model)
Q413	8-729-663-47	2SC1364 (AEP, UK, E model)	Q804	8-729-217-33	2SC1173 (AEP, UK, E model)	IC301	8-759-111-61	μPC1161C (US, Canadian model)	D416-419	8-719-815-55	1S1555 (AEP, UK, E model)
						IC302	8-759-320-16	HA12016 (AEP, UK, E model)	D416-419	8-719-311-12	SEL1112R (US, Canadian model)
						IC303	8-759-140-11	μPD4011C (US, Canadian model)	D420	8-719-311-12	SEL1112R (US, Canadian model)
						IC304	8-759-140-69	μPD4069C (US, Canadian model)	D420	8-719-922-41	SLP241B (AEP, UK, E model)
							8-759-140-11	μPD4011C (AEP, UK, E model)			

• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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.

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Ref. No.	Part No.	Description
D421	8-719-812-41	TLR124 (US, Canadian model)
	8-719-922-41	SLP241B (AEP, UK, E model)
D422-424	8-719-922-41	SLP241B
D425	8-719-922-41	SLP241B (US, Canadian model)
	8-719-900-41	SLP141B (AEP, UK, E model)
D426	8-719-311-12	SEL1112R (AEP, UK, E model)
	8-719-922-41	SLP241B (US, Canadian model)
D427	8-719-311-12	SEL1112R (AEP, UK, E model)
	8-719-922-41	SLP241B (US, Canadian model)
D428-433	8-719-311-12	SEL1112R (AEP, UK, E model)
D434, 435	8-719-815-55	1S1555 (AEP, UK, E model)
D501	8-719-931-10	EQB01-10
D701, 751	8-719-912-00	MV-12N
D702, 752	8-719-815-55	1S1555
D703, 753	8-719-300-11	SV04S
D704, 754	8-719-815-55	1S1555
D705, 755		
D706, 756		
D707, 757		
D708		
D709	8-719-931-10	EQB01-10 (US, Canadian model)
D710	8-719-931-20	EQB01-20 (US, Canadian model)
D711	8-719-815-55	1S1555 (US, Canadian model)
D731	8-719-127-25	RD27E-B2Z (AEP, UK, E model)
D732	8-719-815-55	1S1555 (E model)
D732, 733	8-719-815-55	1S1555 (AEP, UK model)
D801	8-719-504-40	S4VB40
D802	8-719-815-55	1S1555 (US, Canadian model)
	8-719-200-02	10E2 (AEP, UK, E model)
D803	8-719-931-06	EQB01-06
D804	8-719-200-02	10E2 (US, Canadian model)
	8-719-931-06	EQB01-06 (AEP, UK, E model)
D805	8-719-931-30	EQB01-30
D806	8-719-931-05	EQB01-05 (AEP, UK, E model)
	8-719-931-24	EQB01-24 (US, Canadian model)
D807	8-719-931-30	EQB01-30 (US, Canadian model)
D808	8-719-931-05	EQB01-05 (US, Canadian model)
D810	8-719-305-15	GH3F (E model)
D901, 902	8-719-815-55	1S1555

Ref. No.	Part No.	Description
D903, 904	8-719-300-22	CTU-22U
D905, 906	8-719-900-93	V09C
CAPACITORS		
All capacitors are in μ F. Common capacitors are omitted. Refer to the lists on pages 81 and 82 for their part numbers.		
C003, 004	1-161-737-00	0.001 400V (E model)
C507, 557	1-130-305-00	0.0056 100V polyethylene (AEP, UK, E model)
C508, 558	1-130-291-00	0.0056 100V polyethylene (AEP, UK, E model)
C801	1-108-749-52	0.047 125V mylar (US model)
C801	1-130-197-21	0.047 125V film (Canadian model)
C801	1-130-342-51	0.47 300V film (AEP, UK model)
C801	1-161-737-00	1000p 400V (E model)
C802, 803	1-161-734-11	2200p 400V (AEP, US model)
C802	1-161-747-11	2200p 125V (US, Canadian model)
C803	1-125-179-11	1000 200V elect (US, Canadian model)
C803	1-125-178-00	470 220V elect (E model)
C804	1-125-178-00	470 200V elect (E model)
C804	1-125-233-11	220 400V elect (AEP, UK model)
C805	1-123-335-51	330 25V elect (AEP, UK, E model)
C820	1-130-234-00	0.047 220V elect (E model)
C830	1-121-422-00	220 25V elect (US, Canadian model)
C901	1-130-141-11	0.01 630V film
C902, 903	1-161-734-11	2200p 400V (AEP, UK model)

Ref. No.	Part No.	Description
C902, 903	1-161-741-00	1000p 400V (E model)
C902, 903	1-161-516-11	0.001 125V (US model)
C902, 903	1-161-746-00	0.001 125V (Canadian model)
C904	1-123-565-00	33 200V elect (US, Canadian model)
	1-123-402-00	22 400V elect (AEP, UK, E model)
	1-130-357-00	1 250V film (US, Canadian model)
C905, 906	1-130-533-00	0.39 250V film (AEP, UK, E model)
	1-108-595-00	0.047 mylar
C908	1-108-599-00	0.068 mylar
C909-912	1-123-361-00	220 50V elect
C913, 914	1-123-307-00	100 10V elect
C915	1-130-141-00	0.01 630V film
C916	1-123-359-00	47 50V elect (E model)
C916, 917	1-161-734-11	2200p 400V (AEP, UK model)
CT301	1-141-171-XX	Trimmer (US, Canadian model)
CT301	1-141-171-XX	Trimmer (US, Canadian model)
	1-141-180-00	Trimmer (AEP, UK, E model)
CT304	1-141-171-XX	Trimmer (AEP, UK, E model)
RESISTORS		
All resistors are in ohms. Common $\frac{1}{4}$ W carbon resistors are omitted. Refer to the list on the last page for their part numbers. k Ω : 1000 Ω , M Ω : 1000k Ω		
R001	1-202-725-11	3.3M $\frac{1}{4}$ W composition (US, Canadian model)
R101, 201	1-247-107-51	100 $\frac{1}{4}$ W carbon (nonflammable) (AEP, UK, E model)
R142, 143	1-247-107-51	100 $\frac{1}{4}$ W carbon (nonflammable) (AEP, UK, E model)
R301	1-244-821-00	5.6k $\frac{1}{4}$ W
R314	1-247-111-51	150 $\frac{1}{4}$ W carbon (nonflammable) (AEP, UK, E model)

Ref. No.	Part No.	Description
R322	1-247-107-51	100 $\frac{1}{4}$ W carbon (nonflammable) (AEP, UK, E model)
R328	1-247-089-51	18 $\frac{1}{4}$ W carbon (nonflammable) (AEP, UK, E model)
R705, 755	1-247-135-51	1.5k $\frac{1}{4}$ W carbon (nonflammable)
R706, 756		
R709, 759	1-247-123-51	470 $\frac{1}{4}$ W carbon (nonflammable)
R711, 761	1-247-121-51	390 $\frac{1}{4}$ W carbon (nonflammable) (AEP, UK, E model)
R712, 762	1-247-103-51	68 $\frac{1}{4}$ W carbon (nonflammable) (US, Canadian model)
	1-212-879-51	82 $\frac{1}{4}$ W fusible (AEP, UK, E model)
R713, 763	1-247-137-51	1.8k carbon (nonflammable) (US, Canadian model)
R714, 764	1-247-109-51	120 $\frac{1}{4}$ W carbon (nonflammable)
R715, 765		
R717, 767	1-247-107-51	100 $\frac{1}{4}$ W carbon (nonflammable) (US, Canadian model)
R718, 768	1-247-107-51	100 $\frac{1}{4}$ W carbon (nonflammable)
	1-247-107-51	100 $\frac{1}{4}$ W carbon (nonflammable) (AEP, UK, E model)
R719, 769	1-247-099-51	47 $\frac{1}{4}$ W carbon (nonflammable) (US, Canadian model)
R720, 770	1-212-873-51	47 $\frac{1}{4}$ W fusible (AEP, UK, E model)
R720, 770	1-247-095-51	33 carbon (nonflammable) (US, Canadian model)
R721, 771		
R722, 772	1-247-119-51	330 carbon (nonflammable) (US, Canadian model)
R723, 773	1-247-107-51	100 carbon (nonflammable) (US, Canadian model)
R724, 774	1-217-158-00	0.47 5W metal-plate (US, Canadian model)
	1-247-119-51	330 $\frac{1}{4}$ W carbon (nonflammable) (AEP, UK, E model)
R725, 775	1-217-158-00	0.47 5W metal-plate

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Ref. No.	Part No.	Description
R726, 776	△1-217-158-00	0.47 5W metal-plate (AEP, UK, E model)
	△1-247-107-51	100 1/4W carbon (nonflammable) (US, Canadian model)
R727, 777	△1-247-129-51	820 1/4W carbon (nonflammable) (US, Canadian model)
R728, 778		
R730, 780	△1-247-192-51	10 1/4W carbon (nonflammable) (US, Canadian model)
R731, 781	1-244-817-10	4.7 1/2W (US, Canadian model)
R734	1-206-670-00	1.8k 2W metal oxide (nonflammable)
R736	△1-247-240-51	1k 1/4W carbon (nonflammable) (AEP, UK, E model)
R740, 790	△1-213-139-51	470 1W metal oxide (nonflammable) (AEP, UK, E model)
R746	1-244-901-00	15k 1/2W (US, Canadian model)
R747	△1-206-654-51	390 2W metallized-film (US, Canadian model)
R748, 749	1-244-863-00	390 1/2W (US, Canadian model)
R801	△1-217-294-00	4.7 5W wire-wound (US, Canadian model)
	△1-247-243-51	1.3k 1/4W carbon (nonflammable) (AEP, UK, E model)
R802	△1-247-243-51	1.3k 1/4W carbon (nonflammable) (US, Canadian model)
	△1-205-599-11	75 5W composition (nonflammable)
R803, 804	△1-247-188-51	4.7 1/2W carbon (nonflammable) (US, Canadian model)
	△1-212-849-00	4.7 fusible (AEP, UK, E model)
R807	△1-247-105-51	82 1/4W carbon (nonflammable) (US, Canadian model)
R808	△1-247-119-51	330 1/4W carbon (nonflammable) (AEP, UK, E model)
	△1-247-218-51	120 1/2W carbon (nonflammable) (US, Canadian model)

Ref. No.	Part No.	Description
R812	△1-247-119-51	330 carbon (nonflammable) (AEP, UK, E model)
	△1-247-218-51	120 1/4W carbon (nonflammable) (US, Canadian model)
R813	1-206-642-51	120 2W metal oxide (nonflammable)
R814	△1-212-857-00	10 fusible (nonflammable) (AEP, UK, E model)
R817, 818	1-206-644-51	150 2W metal oxide (nonflammable) (AEP, UK, E model)
R820	△1-247-089-51	18 carbon (nonflammable) (AEP, UK, E model)
R821, 822	△1-246-529-15	220k 1/4W carbon (nonflammable) (E model)
R822	△1-206-648-51	220 2W metal oxide (US, Canadian model)
R823	△1-206-678-11	3.9k 2W metal oxide (nonflammable) (E model)
R824	△1-206-674-11	2.7k 2W metal oxide (nonflammable) (E model)
R901	△1-244-928-00	200k 1/2W (AEP, UK, E model)
	△1-244-921-00	100k 1/2W (US, Canadian model)
R902	△1-247-141-00	2.7k carbon (nonflammable) (AEP, UK, E model)
	△1-211-553-00	2.7k carbon (nonflammable) (US, Canadian model)
R903	△1-246-507-25	27k
R904	△1-246-483-00	2.7k
R905	△1-246-469-00	680
R906	△1-244-821-00	6.8 1/2W (US, Canadian model)
	△1-244-822-00	7.5 1/2W (AEP, UK, E model)
R907	△1-246-481-00	2.2k (E model)
RT101	1-226-237-00	20k-B, adjustable; fm tuning level (US, Canadian model)
	1-226-238-00	50k-B, adjustable; signal indicator (AEP, UK, E model)
RT102	1-226-238-00	50k-B, adjustable; fm tuning level (AEP, UK, E model)
	1-226-239-00	100k-B, adjustable; fm muting level (US, Canadian model)

Ref. No.	Part No.	Description
RT103	1-226-238-00	50k-B, adjustable; fm muting level (AEP, UK, E model)
RT201	1-226-238-00	50k, adjustable; stereo separation (AEP, UK, E model)
	1-226-240-00	200k-B, adjustable; stereo separation (US, Canadian model)
RT202	1-226-235-00	5k-B, adjustable; VCO
RT301	1-226-238-00	50k, adjustable; a-m tuning level (AEP, UK, E model)
	1-226-239-00	100k-B, adjustable; signal strength (US, Canadian model)
RT302	1-226-235-00	5k-B, adjustable; a-m muting level (US, Canadian model)
RT401	1-226-232-00	500-B, adjustable; PLL
RT701, 751	1-226-232-00	500-B, adjustable; dc balance
RT702, 752	1-226-237-00	20k-B, adjustable; dc bias
RV601, 651	1-226-265-00	100k/100k, variable; BALANCE
RV602, 652	1-226-738-00	250k/250k-B, variable; VOLUME
RV603, 653	1-226-267-00	100k/100k, variable; TREBLE
RV604, 654	1-226-268-00	100k/100k, variable; BASS

MISCELLANEOUS

CF101-103	1-527-307-99	Filter, ceramic (US, Canadian, E model)
CF101-104	1-527-344-91	Filter, ceramic (AEP, UK model)
CF104	1-527-307-99	Filter, ceramic (E model)
CF301	1-527-402-00	Filter, mechanical (US, Canadian, E model)
	1-527-403-00	Filter, mechanical (AEP, UK model)
CF302	1-527-403-00	Filter, mechanical (US, Canadian model)
	1-527-732-00	Filter, ceramic (AEP, UK, E model)
CNJ001	1-507-649-00	Jack, stereo-binaural; HEADPHONES (AEP, UK, E model)
CNJ901	1-561-161-00	Connector, dual; AC OUTLET (US, Canadian, E model)
CNJ903	1-507-649-00	Jack, stereo-binaural; HEADPHONES (US, Canadian model)
CNP001	△1-534-817-XX	Cord, power (AEP model)
CNP001	△1-551-884-00	Cord, power (UK model)
CNP901	△1-534-986-XX	Cord, power (US, Canadian, E model)
F801	△1-532-286-00	Fuse, T2.5A (AEP, UK model)
	△1-532-272-00	Fuse, 5A (US, Canadian model)
	△1-532-299-00	Fuse, T5A (E model)

Ref. No.	Part No.	Description
FE101	1-463-335-00	Front End, f-m (AEP, UK, E model)
	1-463-300-00	Front End, f-m (US, Canadian model)
FLD401	1-519-212-00	Tube, fluorescent display (AEP, UK, E model)
	1-519-171-00	Tube, fluorescent display (US, Canadian model)
IFT101	1-404-258-00	Transformer, discriminator (AEP, UK, E model)
	1-404-170-00	IFT, f-m (US, Canadian model)
IFT301	1-409-323-00	Coil, mechanical-filter
IFT302	1-409-324-00	Coil, mechanical-filter
IFT303	1-404-189-00	IFT, a-m (US, Canadian model)
	1-404-266-00	IFT, a-m (AEP, UK, E model)
J001, 051	1-507-637-00	Jack, phono; 6-pin; PNONO, AUX, TAPE 1 (AEP, UK, E model)
J002, 052		
J003, 053		
J901, 951	1-507-637-00	Jack, phono; 6-pin; PHONO, AUX, TAPE 1 (US, Canadian model)
J902, 952		
J903, 953		
J004, 054	1-507-637-21	Jack, phono; 6-pin; REC OUT 1, 2, TAPE 2 (AEP, UK, E model)
J005, 055		
J006, 056		
J904, 954	1-507-637-21	Jack, phono; 6-pin; REC OUT 1, 2, TAPE 2 (US, Canadian model)
J905, 955		
J906, 956		
L001	1-401-887-00	Antenna, a-m ferrite-rod (AEP, UK, E model)
L1	1-401-849-21	Antenna, a-m ferrite-rod (US, Canadian model)
L301	1-407-169-XX	100μH, microinductor
L302	1-407-177-XX	470μH, microinductor (US, Canadian model)
L303	1-405-927-00	Coil, a-m OSC (AEP, UK, E model)
	1-405-898-00	Coil, a-m OSC (US, Canadian model)
L304	1-407-878-00	27mH, microinductor (US, Canadian model)
L305	1-407-176-XX	390μH, microinductor
L401	1-407-199-00	10μH, microinductor (US, Canadian model)
L403	1-407-169-XX	100μH, microinductor (US, Canadian model)
L404	1-407-190-00	10μH, microinductor (US, Canadian model)
L501, 551	1-407-519-00	8μH, microinductor
▲L701, 751	1-420-838-00	1.8μH, microinductor

STR-V55 STR-V55

Ref. No.	Part No.	Description
L901	▲1-421-340-00	Coil, line-filter choke (AEP, UK, E model)
	▲1-421-328-11	Coil, line-filter choke (US, Canadian model)
L902-906	▲1-421-329-00	10μH, choke coil
L907, 908	▲1-407-161-XX	22μH, microinductor
LPF101	1-231-729-00	Filter, lowpass (AEP, UK, E model)
	1-231-224-00	Encapsulated Component (US, Canadian model)
LPF201	1-231-574-00	Filter, lowpass (AEP, UK, E model)
LPF202	1-231-224-00	Encapsulated Component (US, Canadian model)
PL1-6	1-518-331-81	Lamp, pilot; 6V 35mA
RY701	1-553-227-00	Relay (US, Canadian model)
RY731	1-515-348-00	Relay (AEP, UK, E model)
RY801	▲1-515-347-00	Relay
RY901	▲1-515-349-00	Relay (E model)
S001, 002	▲1-553-483-00	Switch, rotary; POWER/SPEAKERS (AEP, UK, E model)
S1	1-553-179-00	Switch, rotary-slide; TAPE COPY
S2-7	1-553-182-00	Switch, pushbutton; MONITOR, FUNCTION
S8-11	1-553-180-00	Switch, pushbutton; AUDIO MUTING, LOUDNESS, MODE, LOW FILTER
S12	1-553-181-00	Switch, pushbutton; TUNING LEVEL (US, Canadian model)
S12-15	1-553-181-00	Switch, pushbutton; TUNING LEVEL (AEP, UK, E model)
S13	1-516-777-XX	Switch, slide; AM 9kHz/10kHz (US, Canadian model)
S14, 15	▲1-553-185-00	Switch, rotary; POWER/SPEAKERS (US, Canadian model)
S401-413	1-552-539-00	Switch, keyboard; MEMORY, MEMORY SCAN, FM/AM, TUNING, preset 1 to 8
T1	▲1-543-098-00 ▲1-543-100-00	Core (US, Canadian model)
T2	1-543-100-00	Core (US, Canadian model)
T3	1-446-606-00	Transformer, inverter (US, Canadian model)
T901	▲1-543-098-00 ▲1-543-100-00	Core (AEP, UK, E model)
T902	▲1-543-100-00	Core (AEP, UK, E model)
T903	▲1-446-844-00	Transformer, converter (AEP, UK, E model)

Ref. No.	Part No.	Description
TF801	▲1-532-556-00	Fuse, thermal; 147°C 2A
TF802	▲1-532-556-00	Fuse, thermal; 147°C 2A (AEP, UK model)
TM002,003	1-536-571-00	Terminal Board, 4-pin; SPEAKER (AEP, UK, E model)
TM902,903	1-536-571-00	Terminal Board, 4-pin; SPEAKER (US, Canadian model)
VS001	▲1-552-963-00	Voltage Selector (E model)
X401	1-527-404-00 1-527-731-00	Crystal, quartz (US, Canadian model) Crystal, quartz (AEP, UK, E model)
	▲1-506-370-00	Plug, jumper (US, Canadian model)
	▲1-508-799-00	Terminal Strip
	▲1-508-800-00	Terminal Strip (E model)
	▲1-508-809-00	Terminal Strip (US, Canadian model)
	▲1-508-811-00	Terminal Strip (US, Canadian model)
	▲1-508-812-00	Terminal Strip (AEP, UK, E model)
	▲1-508-833-00	Terminal Strip (US, Canadian model)
	▲1-517-072-00	Holder, fuse (US, Canadian model)
	▲1-533-131-00	Holder, fuse (AEP, UK, E model)
	▲1-535-115-00	Terminal Strip, 2-pin
	▲1-535-116-00	Terminal Strip, 3-pin
	▲1-535-118-00	Terminal Strip, 5-pin
	▲1-535-135-00	Terminal Strip (US, Canadian model)
	1-536-616-00	Terminal Board, ANTENNA
	▲1-560-060-00	Pin, connector
	▲1-560-061-00	Pin, connector
	▲1-560-063-00	Connector, 5-pin
	▲1-560-064-00	Connector, 6-pin (US, Canadian model)
	▲1-560-065-00	Connector, 8-pin (US, Canadian model)

COMPLETE CIRCUIT BOARDS

▲A-4358-070-A	Equalizer
▲A-4382-053-A	Tuner (US, Canadian model)
▲A-4382-061-A	Tuner (AEP, UK model)
▲A-4382-068-A	Tuner (E model)
▲A-4388-210-A	Power Amplifier (US, Canadian model)
▲A-4388-241-A	Power Amplifier (AEP, UK model)
▲A-4388-244-A	Power Amplifier (E model)
▲A-4394-197-A	Power Supply (US, Canadian model)
▲A-4394-221-A	Power Supply (AEP, UK model)

Ref. No.	Part No.	Description
▲A-4394-227-A	Power Supply (E model)	
▲A-4394-228-A	Power Supply (B) (E model)	
▲A-4472-052-A	Display (AEP, UK, E model)	
▲A-4477-045-A	TONE Control (US, Canadian model)	
▲A-4477-046-A	VOLUME Control	
▲A-4477-057-A	TONE Control (AEP, UK, E model)	
▲A-4483-008-A	Control (US, Canadian model)	
▲A-4483-009-A	Control (AEP, UK model)	
▲A-4483-011-A	Control (E model)	

PRINTED CIRCUIT BOARDS

▲1-602-254-00	HEADPHONE Jack (US, Canadian model)
▲1-602-255-00	POWER/SPEAKER Switch (US, Canadian model)
▲1-602-259-00	Input
▲1-602-260-00	Separate (US, Canadian model)
▲1-602-261-00	Jumper
▲1-602-272-00	MUTING Switch (US, Canadian model)
▲1-603-377-00	MUTING Switch (AEP, UK, E model)
▲1-603-379-00	Headphone Jack (AEP, UK, E model)
▲1-603-380-00	POWER/SPEAKER Switch (AEP, UK, E model)

ACCESSORIES AND PACKING MATERIALS

Part No.	Description
1-501-161-00	Feeder Antenna, FM
3-701-630-00	Bag, plastic; instruction manual
3-783-169-12	Manual, instruction (UK, E model)
3-783-169-12	Manual, instruction
3-795-037-11	Manual, instruction (AEP model) (Dutch and Swedish)
3-783-169-21	Manual, instruction (US model)
3-783-169-21	Manual, instruction
3-794-809-31	Manual, instruction (French)
4-809-251-00	Bag, plastic; set
4-866-387-00	Sheet, station-index (US, Canadian, E model)
4-866-398-00	Cushion (top)
4-866-399-00	Cushion (bottom)
4-868-707-00	Carton (US, AEP, UK, E model)
4-868-708-00	Carton (Canadian model)
4-868-713-00	Cushion (top)
4-868-714-00	Cushion (bottom)
4-868-729-00	Sheet, station-index (AEP, UK, E model)

