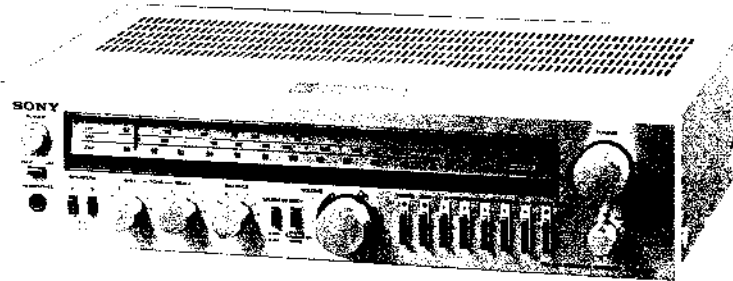


STR-242L

AEP Model
UK Model



FM-AM PROGRAM RECEIVER

SPECIFICATIONS


FM tuner section

Tuning range	87.5–108 MHz
Antenna terminals	300 ohm balanced 75 ohm unbalanced
Intermediate frequency	10.7 MHz
Sensitivity at 46 dB quieting (at 40 kHz deviation)	4.0 μ V (mono), 45 μ V (stereo)
Usable sensitivity	IHF 1.8 μ V, 10.3 dBf 1.6 μ V (S/N = 26 dB, 40 kHz deviation)
Signal-to-noise ratio	69 dB (mono), 64 dB (stereo)
Harmonic distortion	0.2% (mono), 0.3% (stereo), at 1 kHz
IM distortion	0.2% (mono), 0.3% (stereo)
Separation	45 dB at 1 kHz
Frequency response	40 Hz–12.5 kHz ± 0.5 dB
Selectivity at 300 kHz (at 40 kHz deviation, S/N = 26 dB)	40 dB
Capture ratio	1.5 dB
AM suppression ratio	48 dB
Image response ratio	45 dB
Spurious response ratio	70 dB
Muting threshold	Approx. 5 μ V

MW/LW tuner section

	MW	LW
Tuning range	522 kHz–1,602 kHz	150 kHz–350 kHz
Antenna	Built-in ferrite rod antenna, External antenna terminal	
Intermediate frequency	450 kHz	
Usable sensitivity	250 μ V/m, built-in antenna (1,000 kHz) 100 μ V, external antenna (1,000 kHz)	500 μ V/m, built-in antenna (230 kHz) 100 μ V, external antenna (230 kHz)
Signal-to-noise ratio	52 dB (50 mV/m)	52 dB (50 mV/m)
Harmonic distortion	0.3% (50 mV/m, 400 Hz)	0.3% (50 mV/m, 400 Hz)
Selectivity	35 dB (9 kHz)	35 dB (9 kHz)

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.

— Continued on page 2 —

SONY®

SERVICE MANUAL

Amplifier section

Continuous RMS power output (less than 0.08% THD, both channels driven simultaneously)

at 20 Hz–20 kHz
22 + 22 watts (8 ohms)
at 1 kHz
25 + 25 watts (8 ohms)
according to DIN 45500
22 + 22 watts (8 ohms)

Dynamic power output (IHF constant power supply method)
65 watts (8 ohms)

Power bandwidth (IHF)
15 Hz–35 kHz

Damping factor 30 at 1 kHz, 8 ohms

Harmonic distortion Less than 0.08% at rated output
Less than 0.05% at 1 W output

Intermodulation (IM) distortion (60 Hz : 7 kHz = 4:1)
Less than 0.08% at rated output
Less than 0.05% at 1 W output

Residual noise Less than 0.05 μ W at 8 ohms

Inputs	Sensitivity	Impedance	S/N	Weighting network
PHONO	2.5 mV	50 kilohms	75 dB	A
TAPE	150 mV	50 kilohms	90 dB	A

Measured with rated output power into 8 ohm loads (both channels driven simultaneously) at 1 kHz.

Outputs (with rated input)

REC OUT	Voltage 150 mV	Impedance 10 k ohms
HEADPHONES	Accepts all low or high impedance headphones.	
SPEAKER	8–16 ohm speakers are suitable.	

Frequency response PHONO
RIAA equalization curve ± 0.5 dB
TAPE

10 Hz–50 kHz ± 3 dB
Tone controls BASS ± 8 dB at 100 Hz
TREBLE ± 8 dB at 10 kHz

Loudness control (att. 30 dB)
+8 dB at 100 Hz

General

System Superheterodyne FM/AM tuner, Direct coupled quasi-complementary symmetry power amplifier circuit (SEPP OTL)

Power requirements UK model: 240 V ac (or 220 V ac adjustable by authorized Sony personnel), 50 Hz
AEP model: 220 V ac (or 240 V ac adjustable by authorized Sony personnel), 50 Hz

Power consumption UK model: 140 W
AEP model: 120 W

AC outlets Two unswitched, total 200 W (provided only for the UK model)

Dimensions Approx. 430 \times 110 \times 315 mm (w/h/d)
(17 \times 4 $\frac{3}{4}$ \times 12 $\frac{3}{4}$ inches)
incl. projecting parts and controls

Weight Approx. 6.2 kg (13 lb 11 oz) net
Approx. 7.7 kg (17 lb) in shipping carton

SERVICING NOTE

MELF (Metal Electrodes Face-Bonding) Components

Warning

If MELF components are forcibly removed from the printed circuit board with pincers or pliers, the circuit board pattern is likely to peel away. Always remove MELF components according to the procedure described on the next page. Replace MELF components with the lead type components.

MELF components are soldered directly to the surface of the printed circuit board.

MELF resistors and capacitors have the same dimensions and are distinguished by their background colors: light brown for resistors, and pink or light green for capacitors.

The MELF resistor color coding is the same as for conventional resistors, and MELF capacitor color coding is the same as for tube-type ceramic capacitors. Note, however, that all MELF resistors are rated at 1/4W and ±5%.

Components larger than resistors and without a color code are cross conductors, which are used instead of jumper wires.

1. Structure

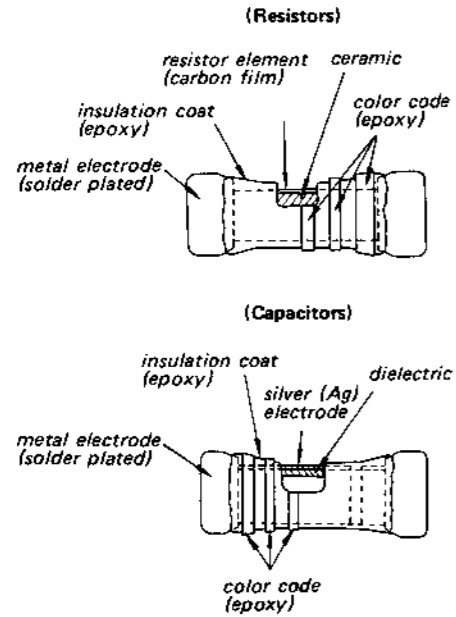


Fig. 1

2. Color Code Reading

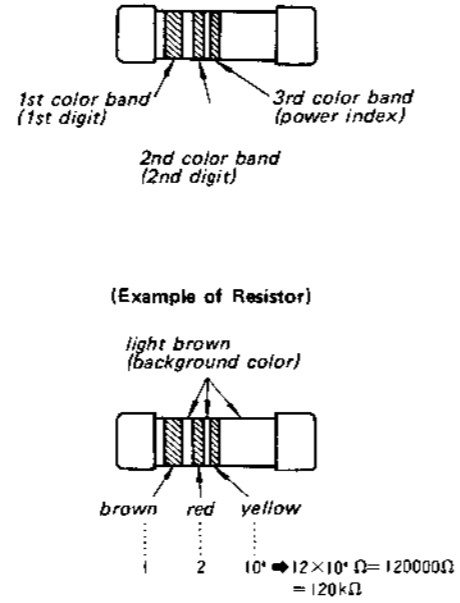


Fig. 2

3. How to Remove MELF Components and Mount Replacements

Use a soldering iron of at least 40W with an iron tip 4 mm in diameter and file the tip down to the angle shown in the diagram.

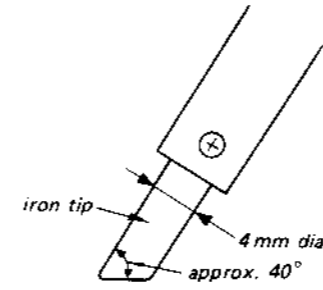


Fig. 3

1. Bring the flat surface of the soldering iron in equal contact with both soldered ends of the component.
2. The solder should melt in about 4 seconds. (The solder will melt more readily if a small amount of solder is attached to the iron tip and the iron tip is placed against the component.)
3. Once the solder has melted, tap the component aside with the tip of the soldering iron, and remove it from the board.

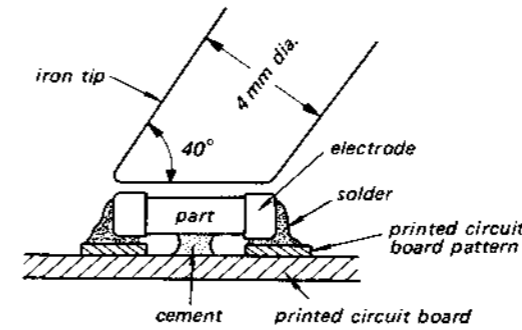


Fig. 4

4. Use lead type resistors or capacitors to replace the MELF components. These replacements may be mounted either with short leads (see Fig. 5), or by covering a lead with tubing (see Fig. 6).

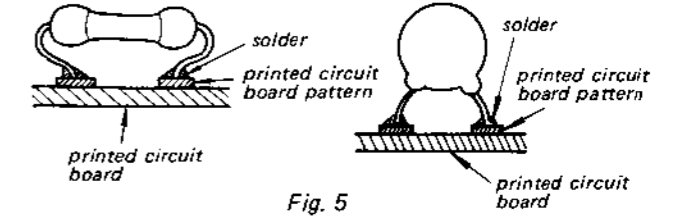


Fig. 5

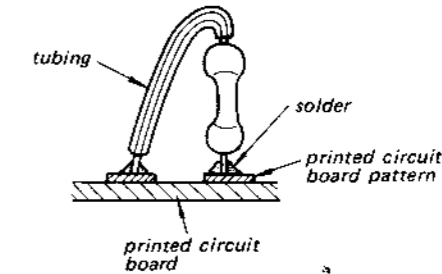
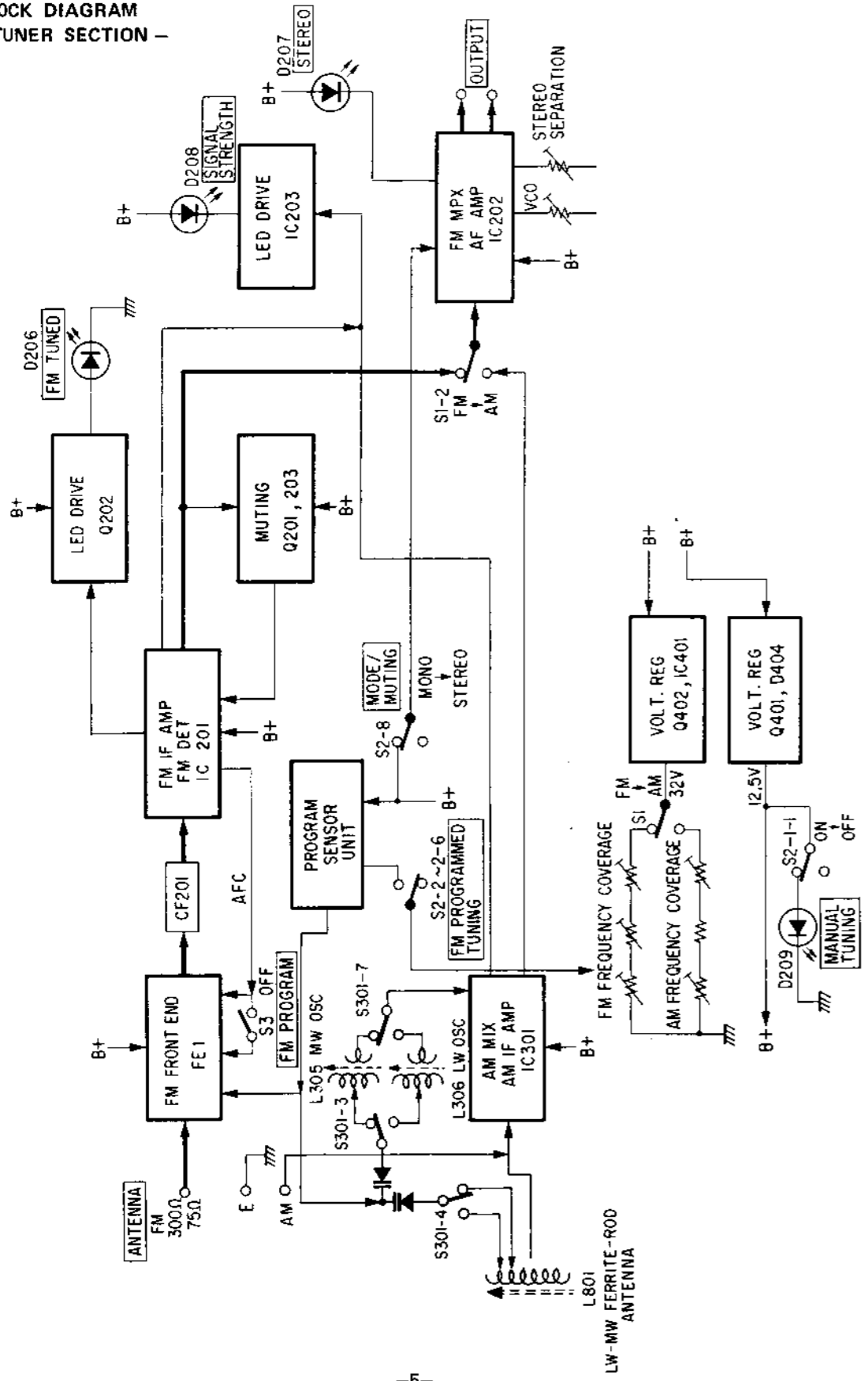


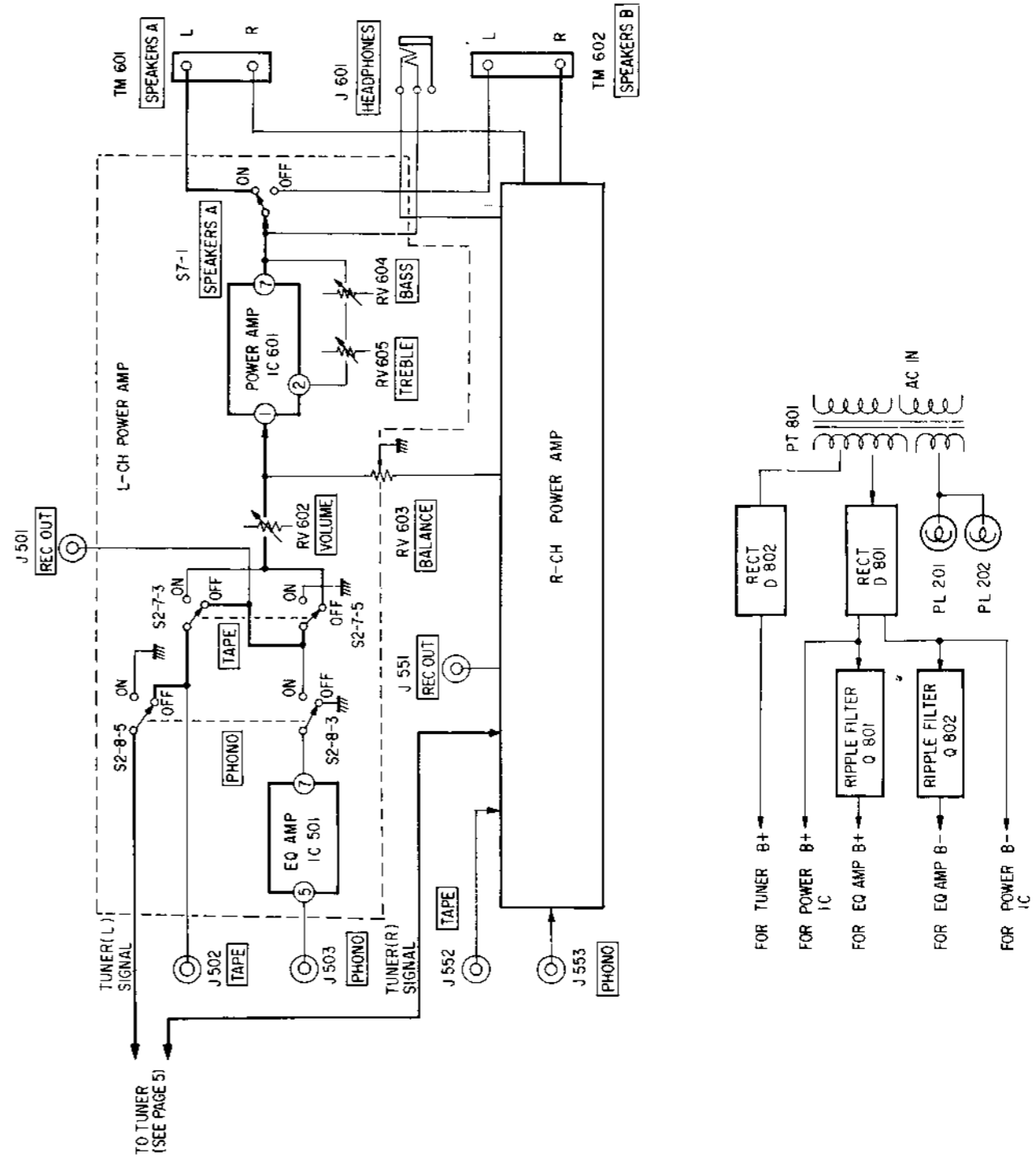
Fig. 6

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM
- TUNER SECTION -



- AUDIO AMP SECTION -



SECTION 2 DISASSEMBLY

2-1. DISASSEMBLY

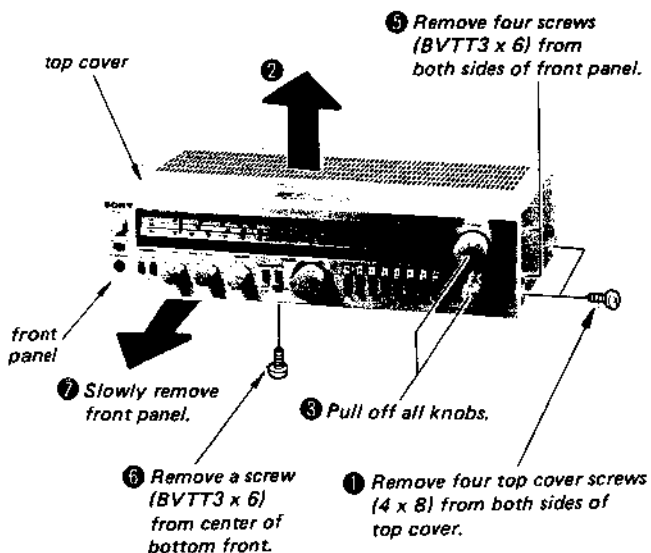
Note: Follow the disassembly procedure in the numerical order given.

TOP COVER AND FRONT PANEL

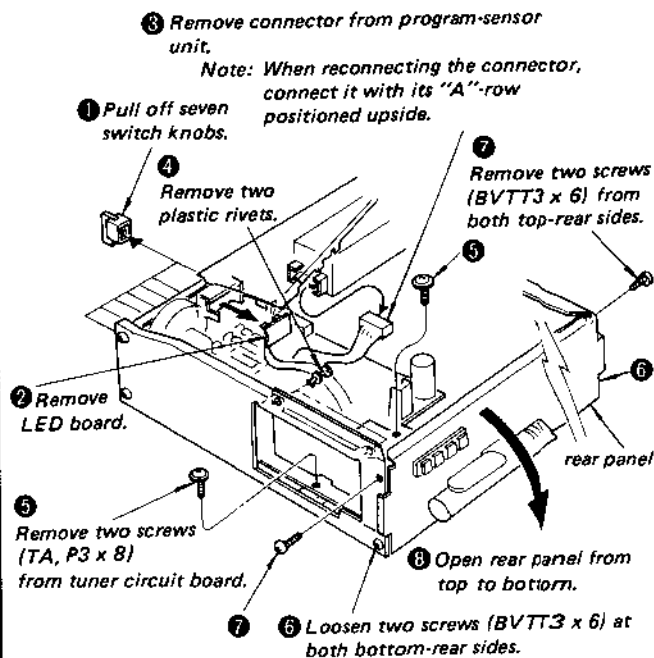
Top Cover: ① - ②

Front Panel: ① - ⑦

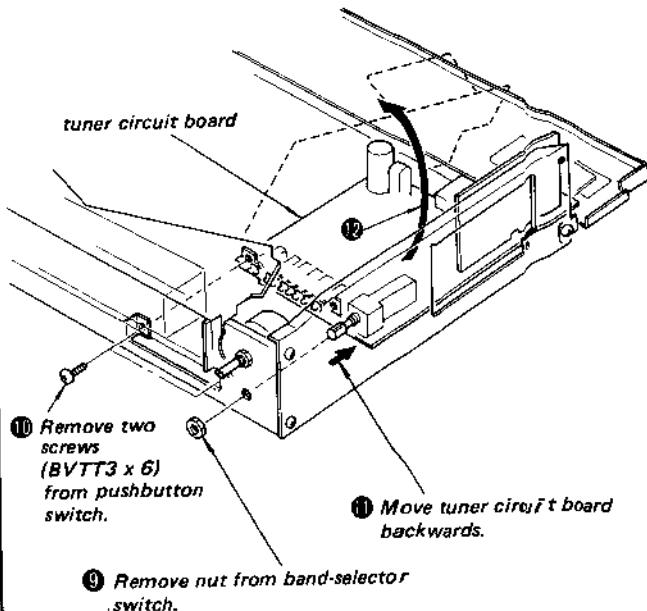
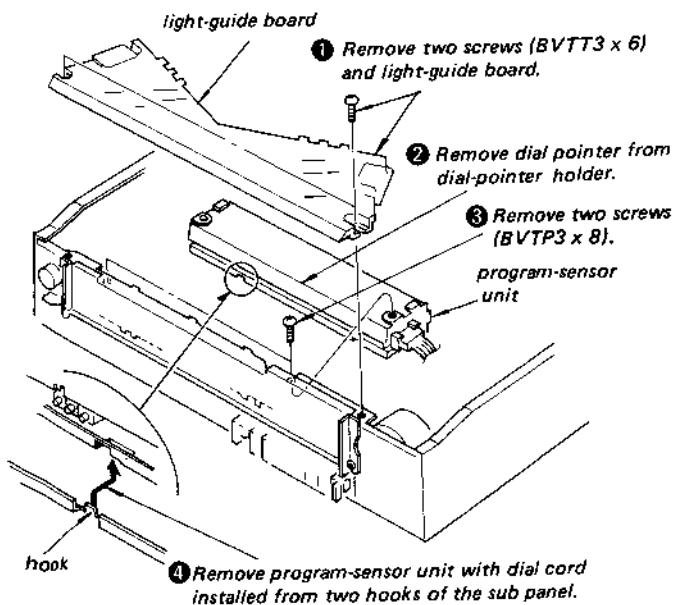
④ Remove LED (C) board from front panel.

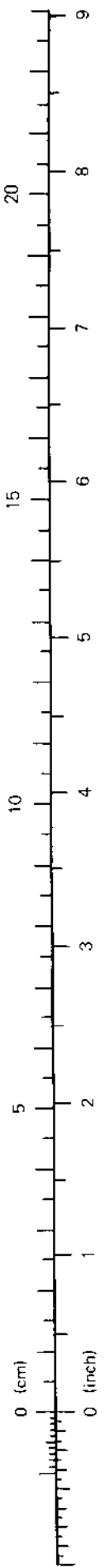


TUNER BOARD

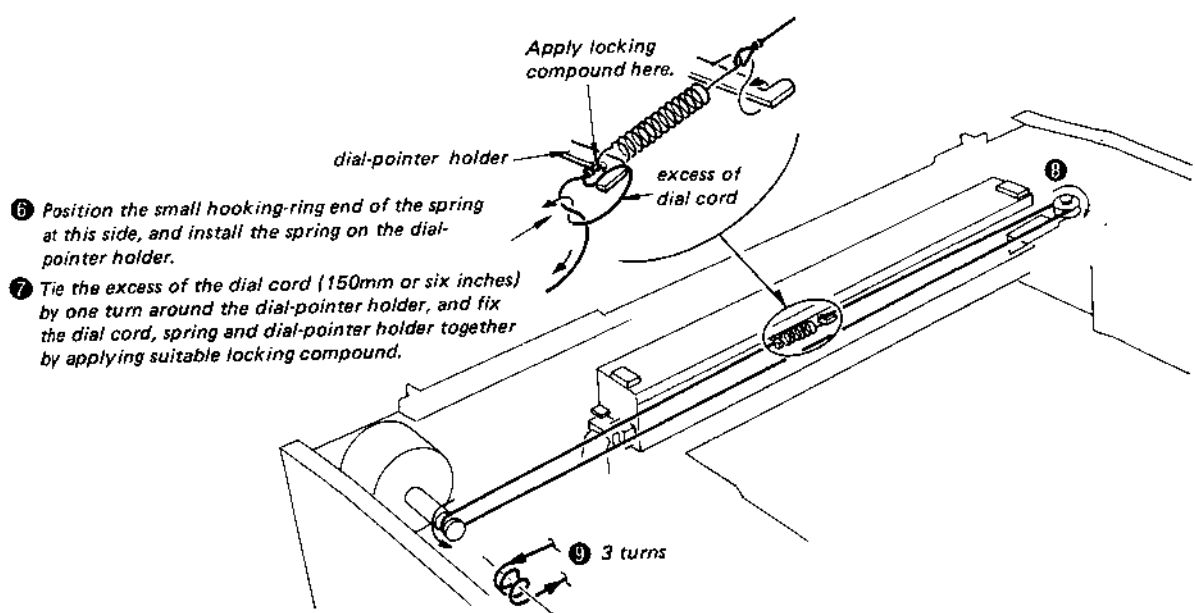
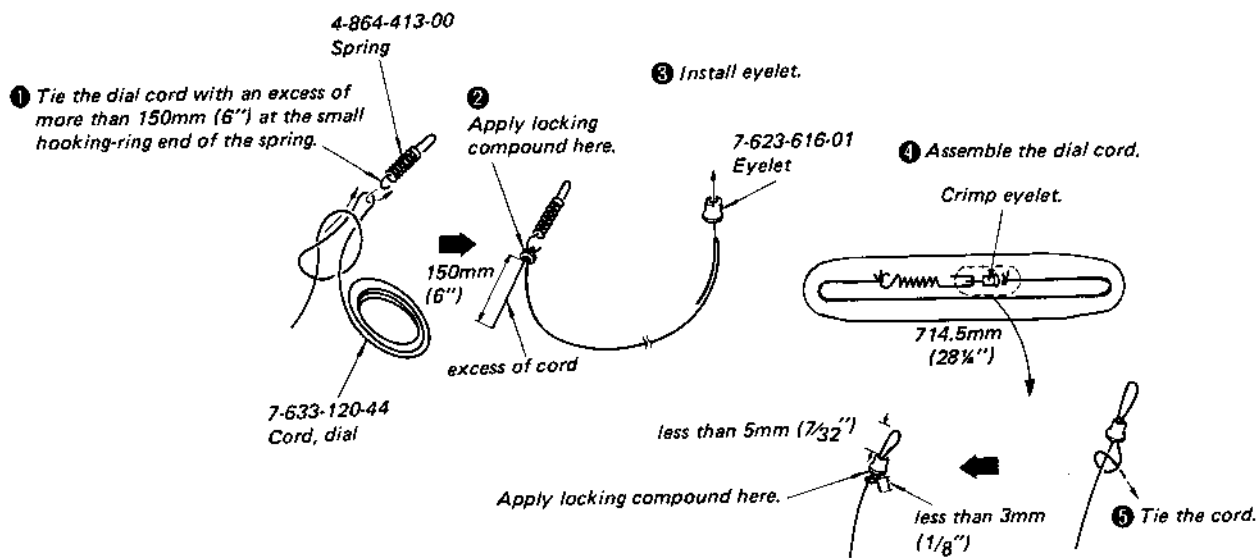


PROGRAM-SENSOR UNIT





2-2. DIAL-CORD STRINGING



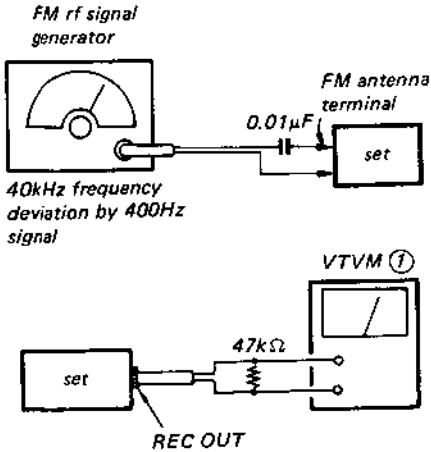
10 Verify that the dial pointer moves to the right when the TUNING knob is turned clockwise and that the TUNING knob turns smoothly.

SECTION 3 ADJUSTMENTS

FM SECTION

Setting:

MANUAL TUNING switch: ON
 Band Selector: FM
 MODE switch: MONO



• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM FRONT-END BLOCK

Adjustment is not necessary. But if it has been meddled with in some way, and if the adjustment is necessary by all means, adjust the FM front-end block as follows.

FM FREQUENCY COVERAGE ADJUSTMENT 1

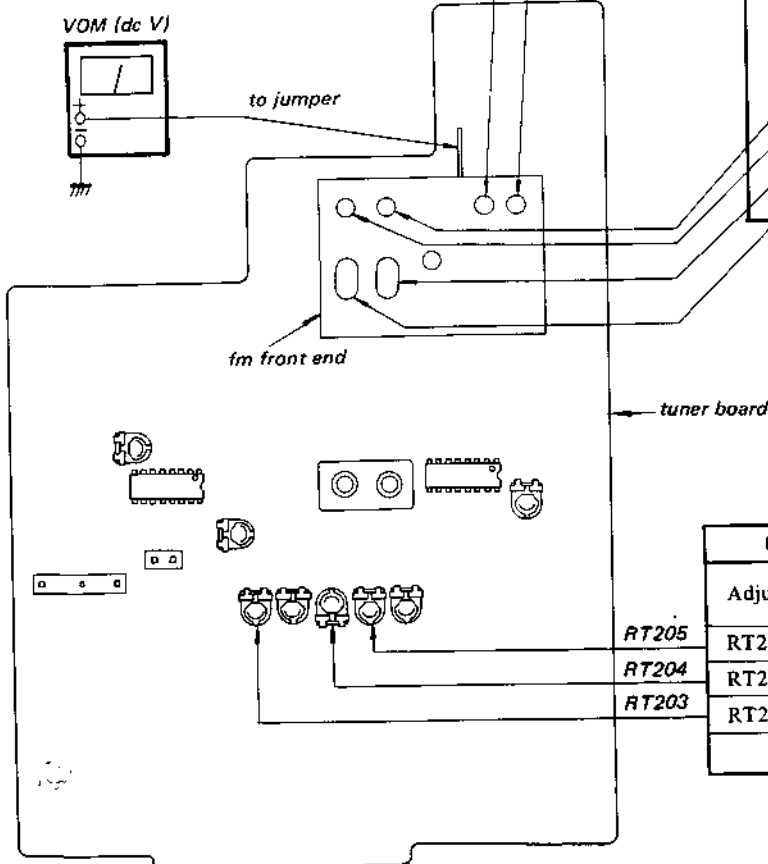
1) Be sure to perform this adjustment before the FM frequency coverage adjustment 2.

TUNING CONTROL VOLTAGE ADJUSTMENT		
Adjustment Part	Dial Indication	VOM Reading
RT205	lowest frequency	2.8V
RT204	98MHz	8.0V
RT203	highest frequency	22.5V
Adjust for a specified reading on VTVM (2).		

LOCAL OSCILLATOR FREQUENCY ADJUSTMENT		
Adjustment Part	Dial Indication	FM Rf Signal Generator Frequency
CT3	highest frequency	108MHz
T2	lowest frequency	88MHz
Adjust for a maximum reading on VTVM (1).		

2) Be sure to perform this adjustment after the FM frequency coverage adjustment 2.

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM (1).	
CT2	108MHz
CT1	
L4	88MHz
L2	



FM FREQUENCY COVERAGE ADJUSTMENT 2		
Adjust	FM Rf Signal Generator Frequency	Dial Indication
RT205	88MHz	88MHz
RT204	98MHz	98MHz
RT203	108MHz	108MHz
Adjust for a maximum reading on VTVM (1).		

FM DISCRIMINATOR ALIGNMENT 1

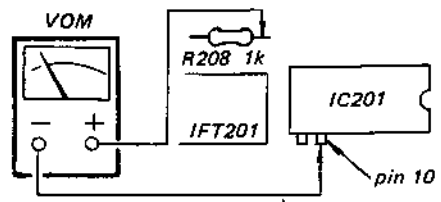
Setting:

- MANUAL TUNING switch: ON
- Band Selector: FM
- MODE switch: MONO
- TUNING: Detuned position

Procedure:

Adjust the orange core (primary-side) of IFT201 for 0V dc reading on VOM.

Note: When replacing the ceramic filter (CF201), perform this alignment.



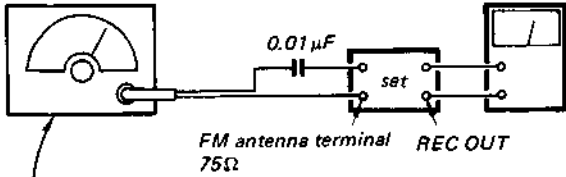
FM DISCRIMINATOR ALIGNMENT 2

Setting:

- MANUAL TUNING switch: ON
- Band Selector: FM
- MODE switch: MONO

FM stereo signal generator

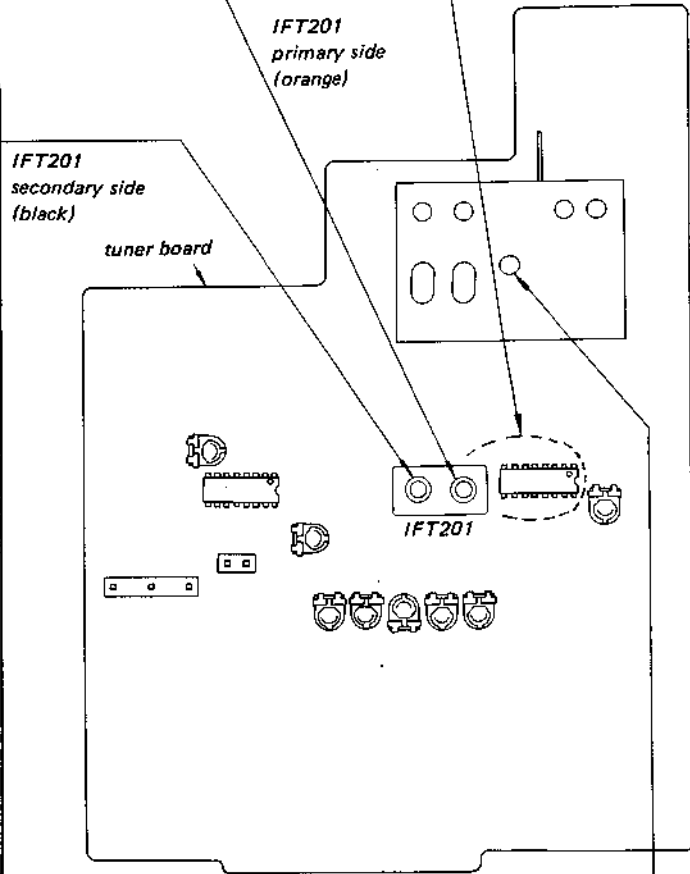
distortion meter



- Carrier frequency: 98MHz
- Output level: 1mV (60dB)
- Modulation: 400Hz, 40kHz deviation (100%)

Procedure:

Adjust the black core (secondary side) of IFT201 for minimum distortion.

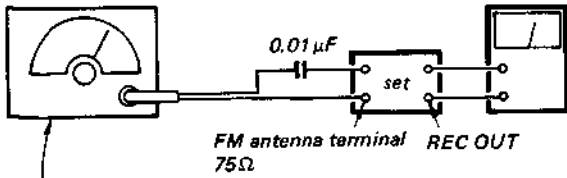


T1

FM IF ALIGNMENT

Fm rf signal generator

VTVM



- Carrier frequency: 98MHz
- Output level: 12.5μV (22dB)
- Modulation: 400Hz, 40kHz deviation (100%)

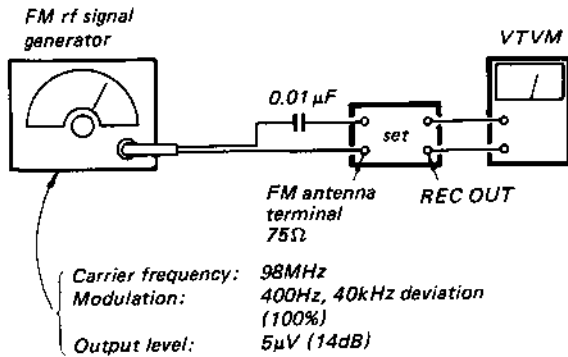
Setting:

- MANUAL TUNING switch: ON
- Band Selector: FM
- MODE switch: MONO

Procedure:

Adjust T1 for maximum reading on the VTVM.

MUTING LEVEL ADJUSTMENT



Setting:

MANUAL TUNING switch: ON
 MODE switch: STEREO

Procedure:

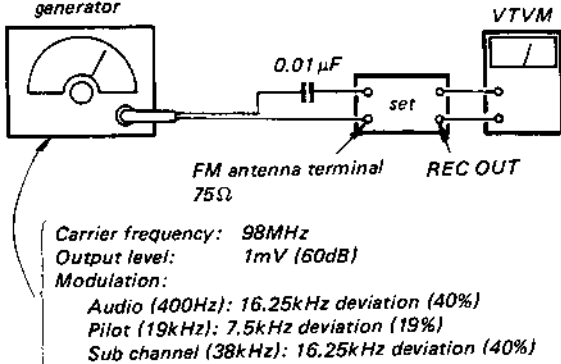
1. Turn RT208 and stop it just when the VTVM indication suddenly increases.
2. If necessary, turn RT208 fully clockwise and make sure that the VTVM indication increases when the output level of the FM rf signal generator is set to 16μV (24dB).

FM STEREO SEPARATION ADJUSTMENT

Setting:

MANUAL MUTING switch: ON
 Band Selector: FM
 MODE switch: STEREO

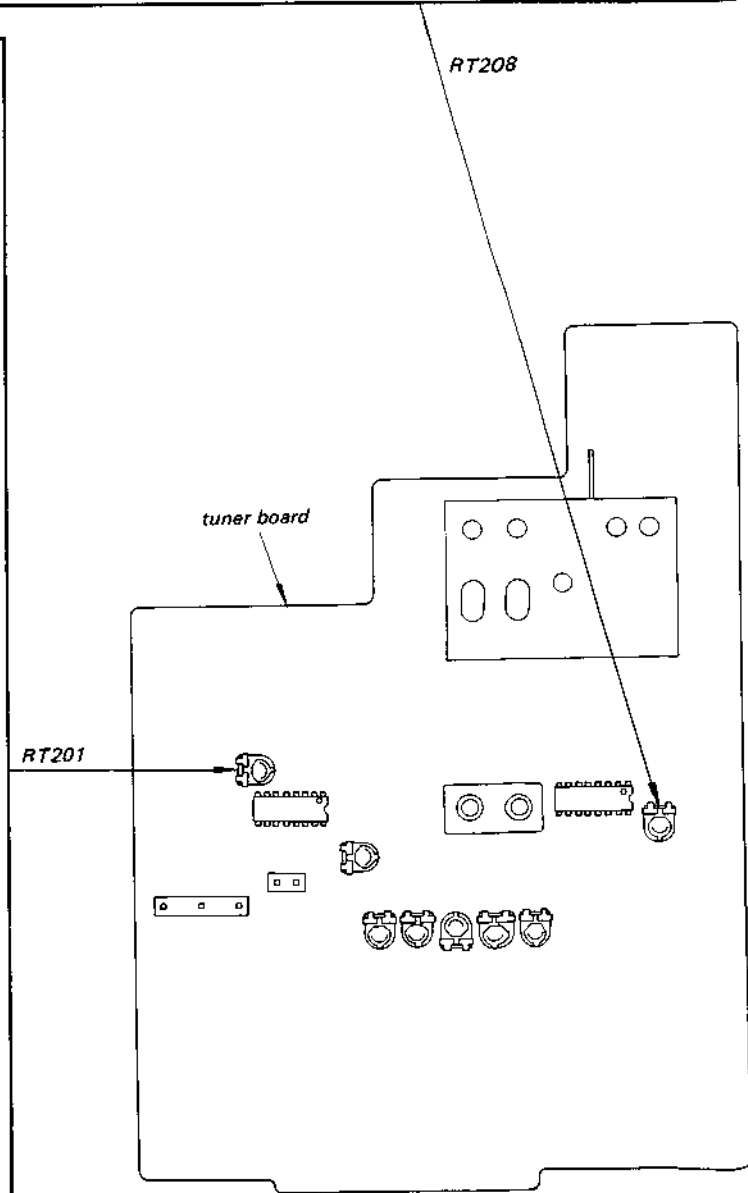
FM stereo signal generator



Procedure:

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

L-CH Stereo separation: (A) - (B)
 R-CH Stereo separation: (C) - (D)
 The difference between separations (A) - (B) and (C) - (D) are to be equal.

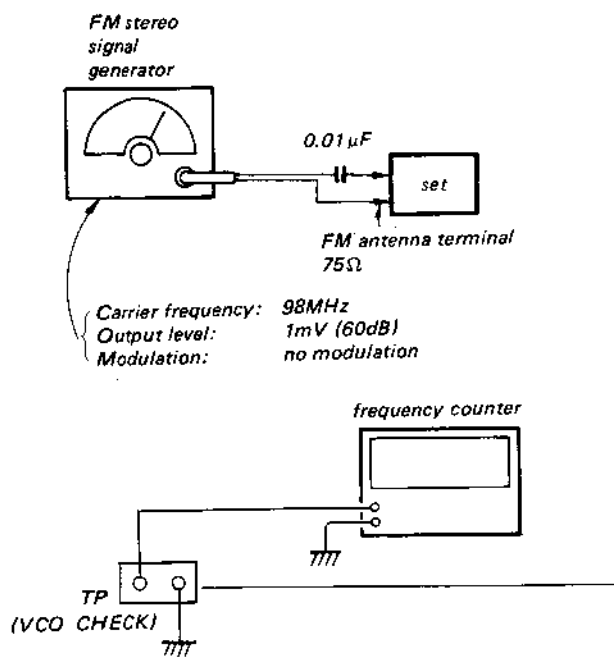


19kHz VCO ADJUSTMENT

Setting:

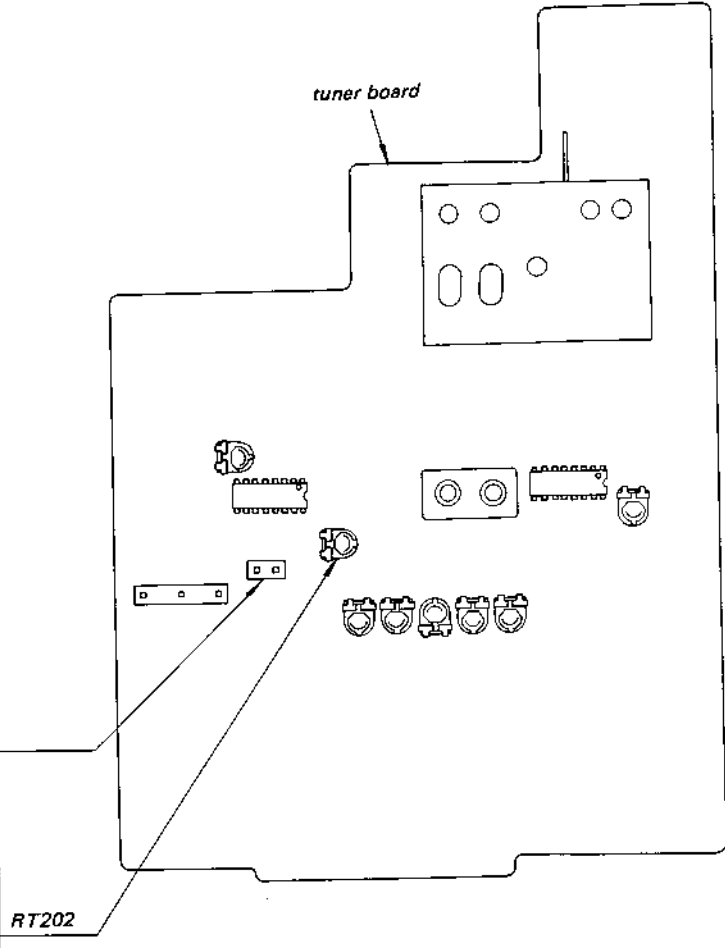
FUNCTION switch: TUNER
 Band Selector: FM
 MODE switch: STEREO

A) Regular Method



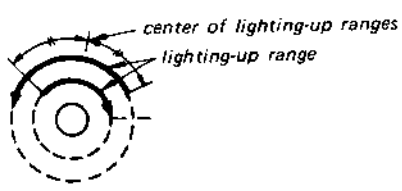
Procedure:

Adjust RT202 for 19kHz \pm 50Hz on the frequency counter.



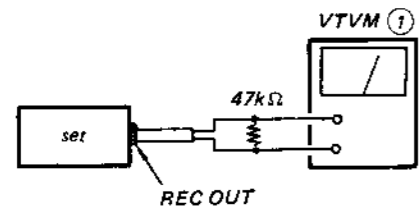
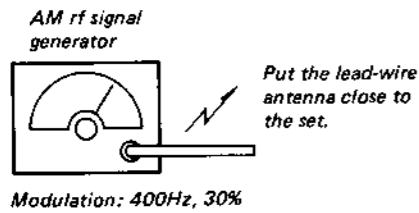
B) Simple Method

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 overlapped lighting-up range in both turning directions as shown below.



AM SECTION

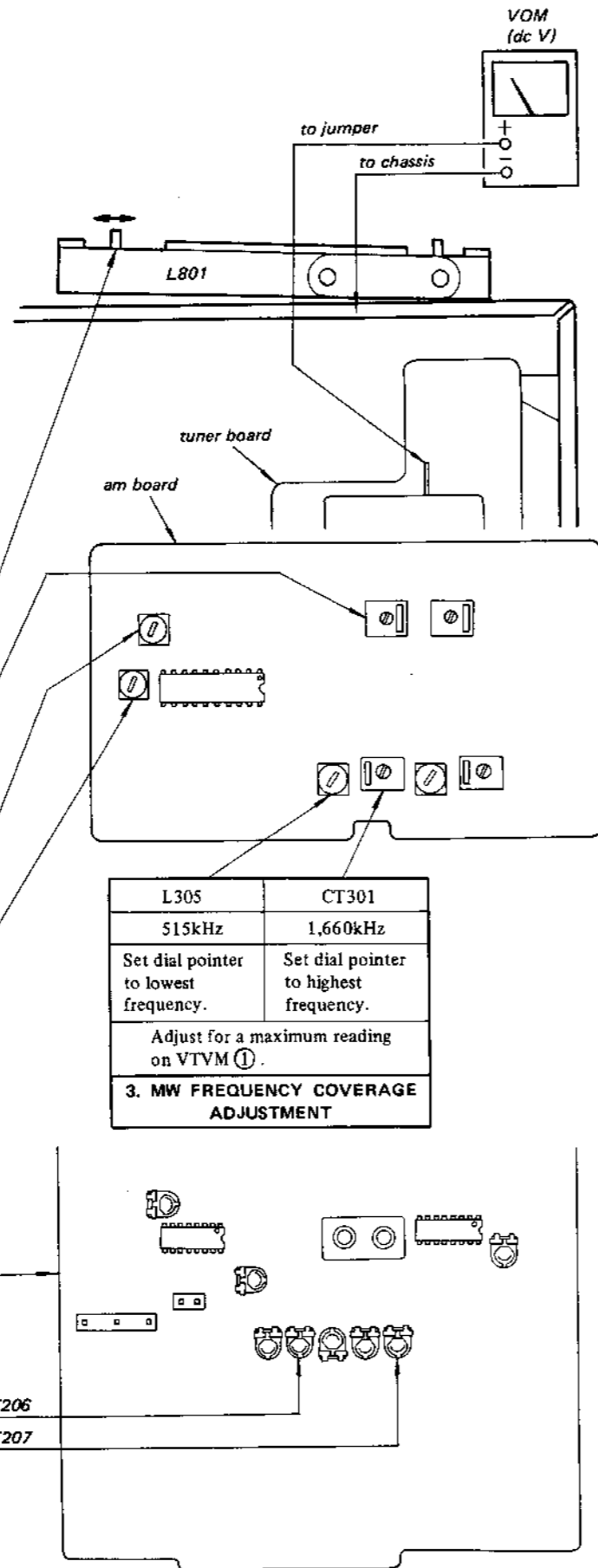
- (1) Setting:
 MANUAL TUNING switch: ON
 Band Selector: MW



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

4. MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM (1).	
600kHz	L801
1,400kHz	CT303

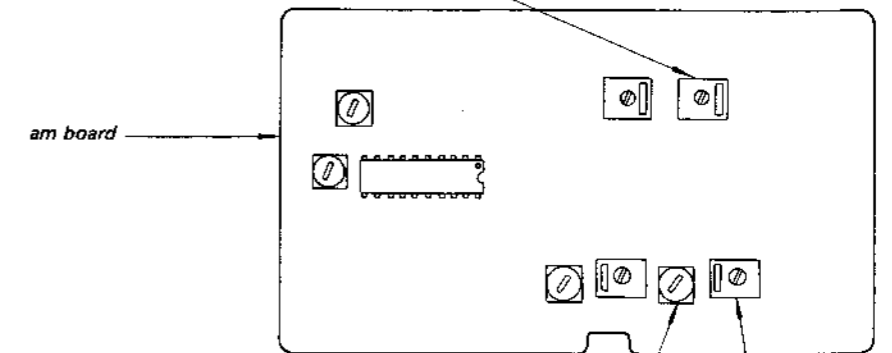
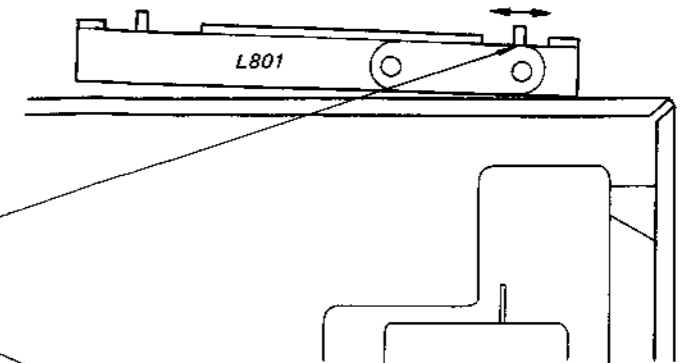
1. AM IF ALIGNMENT	
Adjust for a maximum reading on VTVM (1).	
450kHz	T301, T302



2. AM TUNING VOLTAGE ADJUSTMENT		
Dial Indication	VOM Reading	Adjust
highest frequency	25V	RT206
lowest frequency	1V	RT207

- (2) Setting:
 MANUAL TUNING switch: ON
 Band Selector: LW

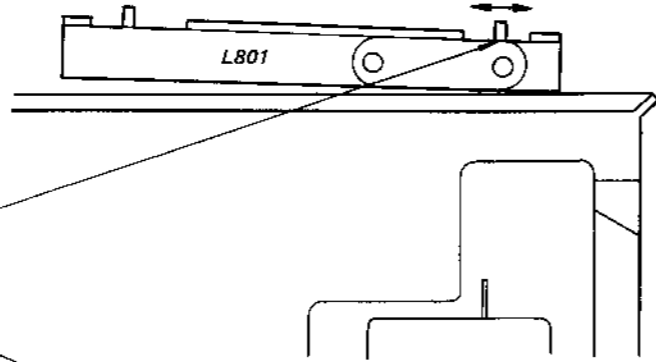
LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM (1).	
170kHz	L801
310kHz	CT304



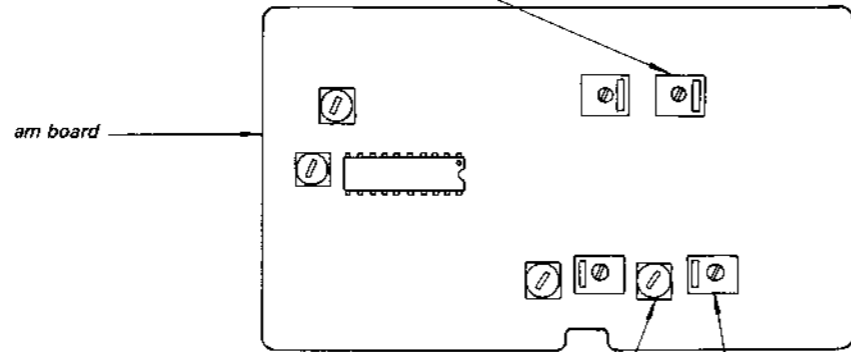
L306	CT302
145kHz	365kHz
Set dial pointer to lowest frequency.	Set dial pointer to highest frequency.
Adjust for a maximum reading on VTVM (1).	
LW FREQUENCY COVERAGE ADJUSTMENT	

(2) Setting:

MANUAL TUNING switch: ON
 Band Selector: LW



LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM ①.	
170kHz	L801
310kHz	CT304



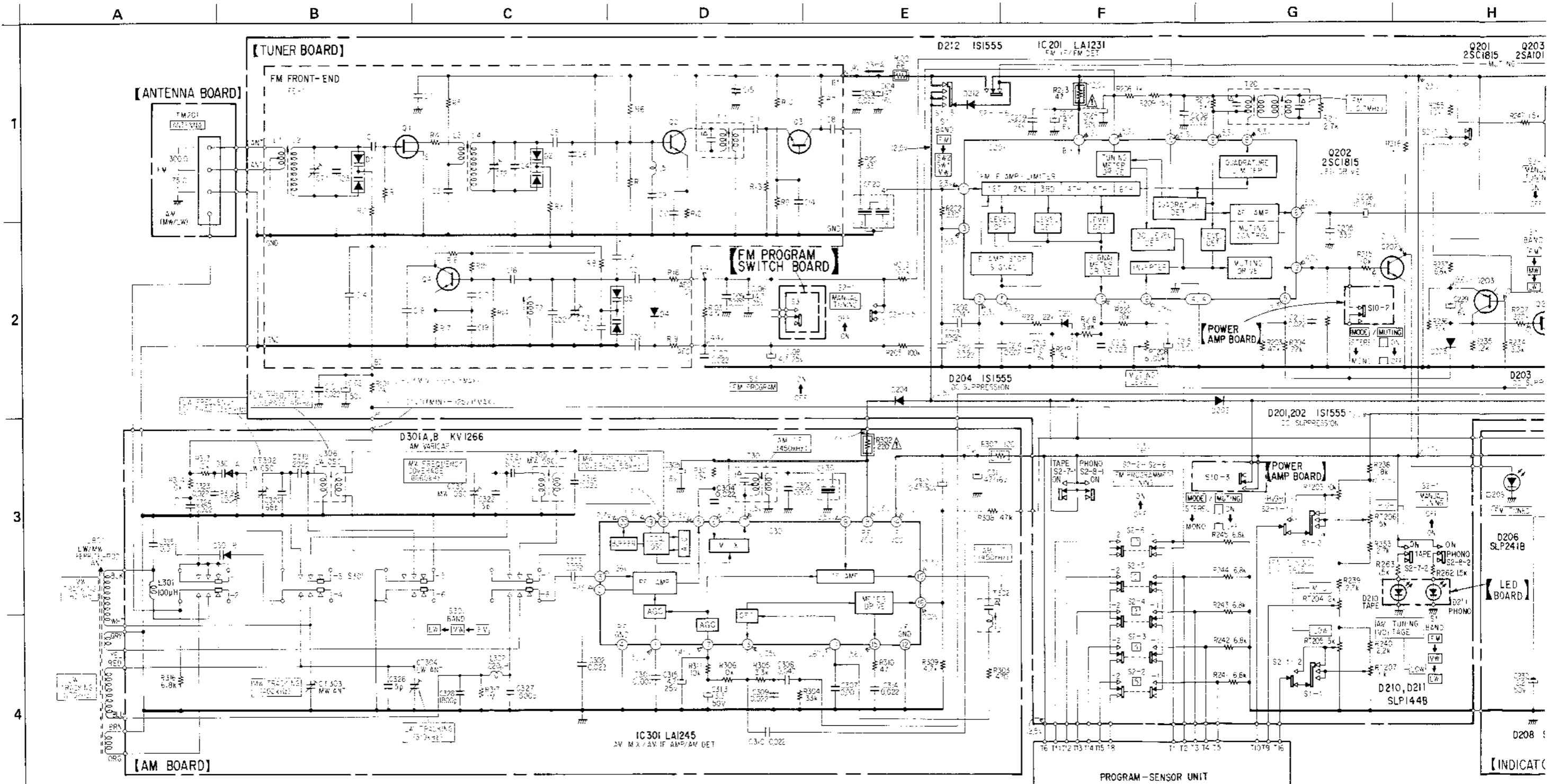
L306	CT302
145kHz	365kHz
Set dial pointer to lowest frequency.	Set dial pointer to highest frequency.
Adjust for a maximum reading on VTVM ①.	
LW FREQUENCY COVERAGE ADJUSTMENT	


MEMO

A series of horizontal dashed lines for taking notes, located below the MEMO heading.







SECTION 4
DIAGRAMS

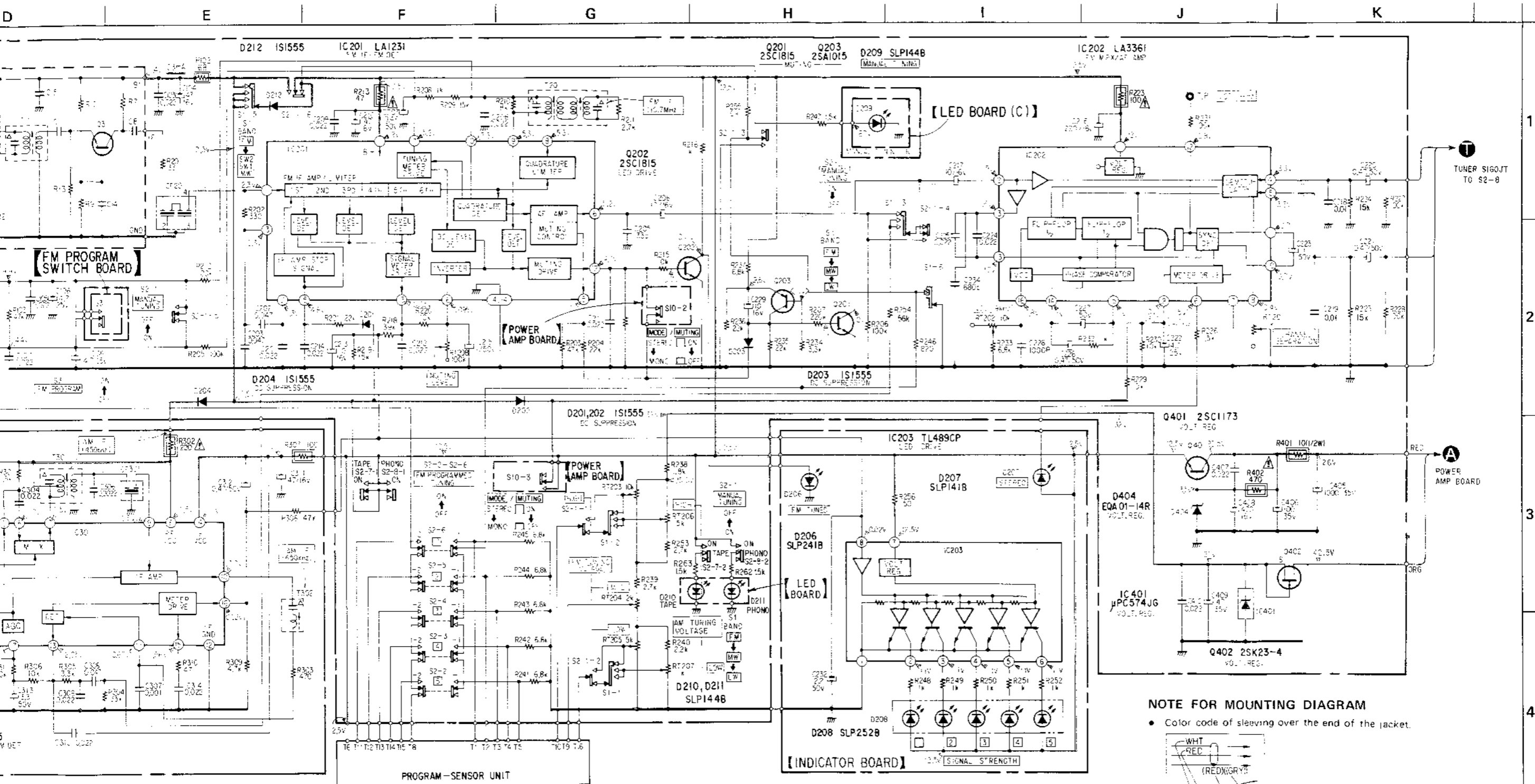
4.1. SCHEMATIC DIAGRAM - TUNER SECTION -



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

NOTE FOR SCHEMATIC DIAGRAM

- 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, $\frac{1}{2}\text{W}$ unless otherwise noted. $\text{k}\Omega : 1000\Omega$, $\text{M}\Omega : 1000\text{k}\Omega$
-  : non-flammable resistor.
-  : internal component.
-  : signal path
-  : B+ bus.
-  : B- bus.
- Voltages are d.c. with respect noted.
- Readings are taken under n with a VOM (2 k Ω /V).
- () : AM
- () : Tuned in FM stereo si
- Voltage variations may be tion tolerance



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

NOTE FOR SCHEMATIC DIAGRAM

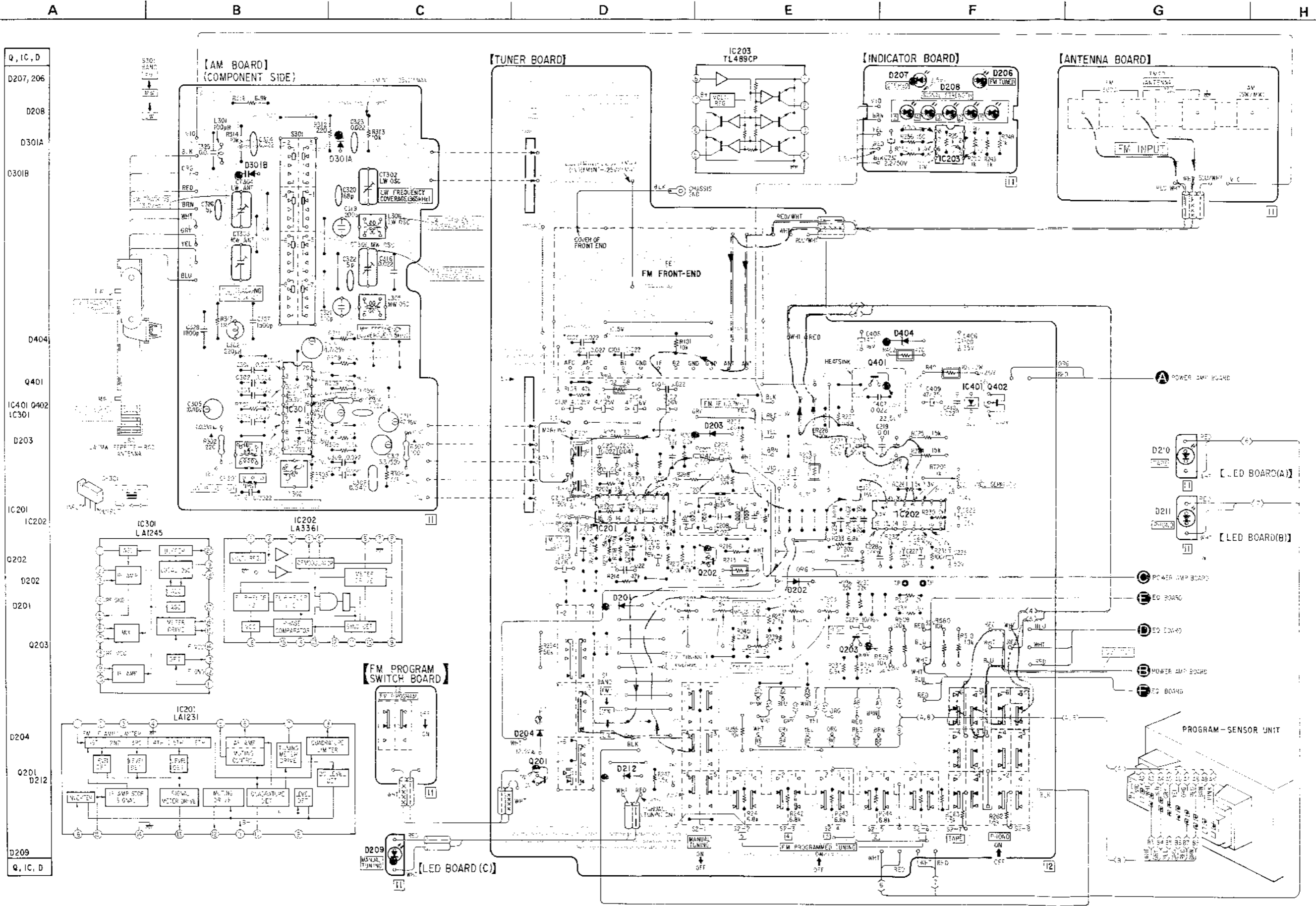
- All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{2}\text{W}$ unless otherwise noted. $\text{k}\Omega : 1000\Omega$, $\text{M}\Omega : 1000\text{k}\Omega$
- : nonflammable resistor.
- : internal component.
- : signal path

- : B+ bus.
- : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (tuned) conditions with a VOM (20 $\text{k}\Omega/\text{V}$).
- () : AM
- () : Tuned in FM stereo signal.
- Voltage variations may be noted due to normal production tolerances.

NOTE FOR MOUNTING DIAGRAM

- Color code of sleeving over the end of the jacket.
- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : indicates side identified with part number.
- : B: pattern
- : signal path
- : L-CH signal path
- : R-CH signal path

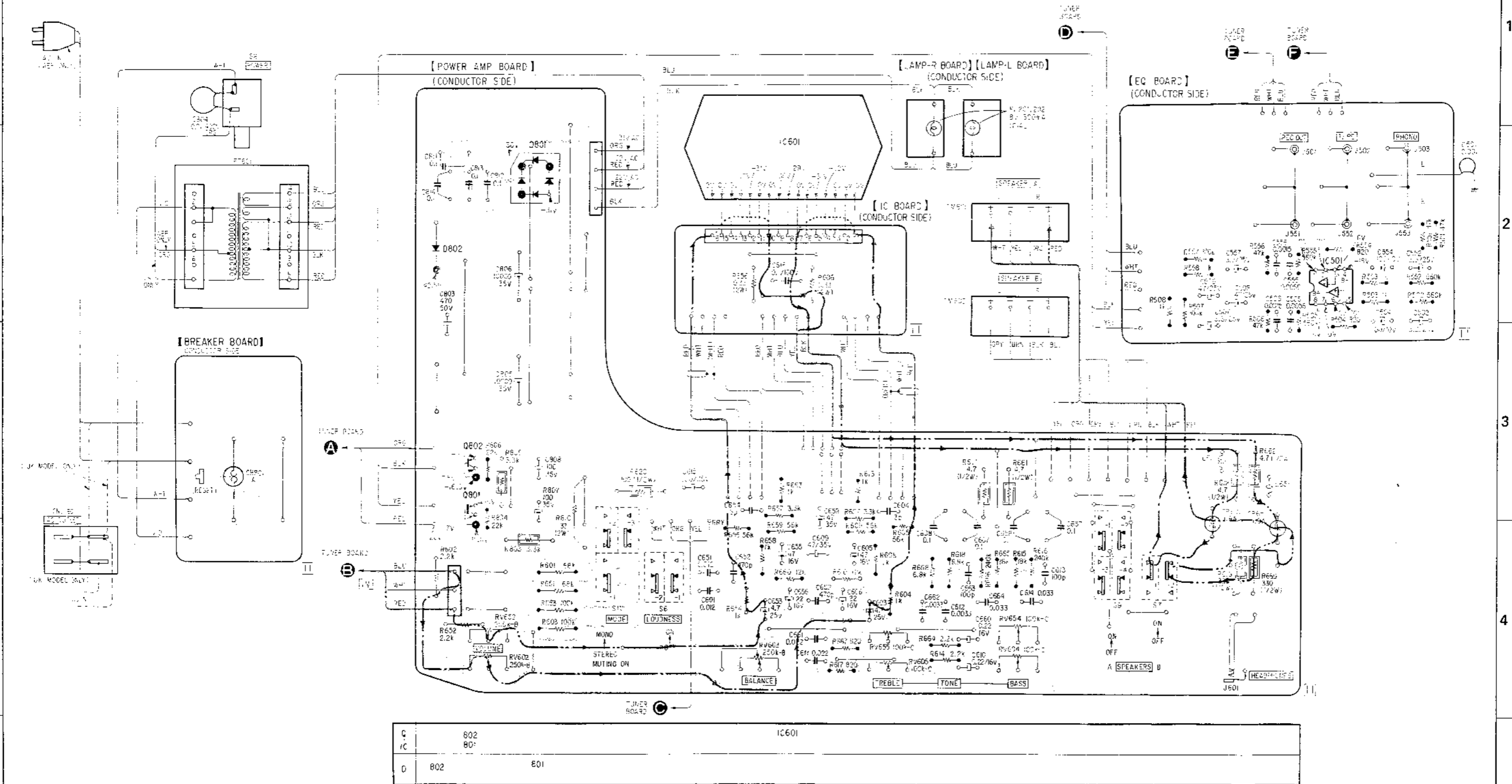
1
2
3
4
5



Q, IC, D
D207, 206
D208
D301A
D301B
D404
Q401
IC401, 402
IC301
D203
IC201
IC202
Q202
D202
D201
Q203
D204
Q201
D212
D209
Q, IC, D

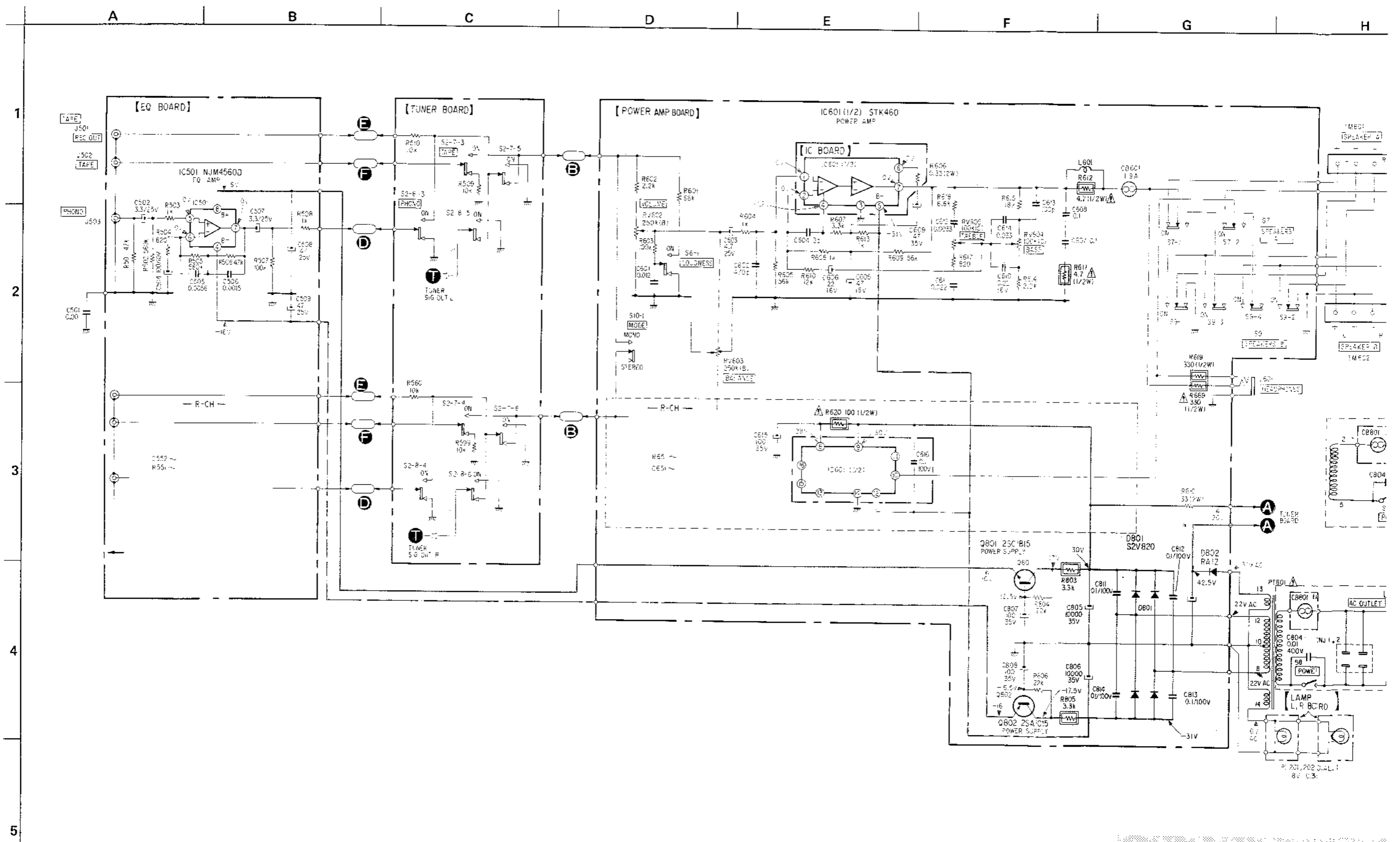
STR-242L STR-242L

4-3. MOUNTING DIAGRAM —AUDIO AMP SECTION —
 Refer to page 25 for replacement semiconductor and the note.

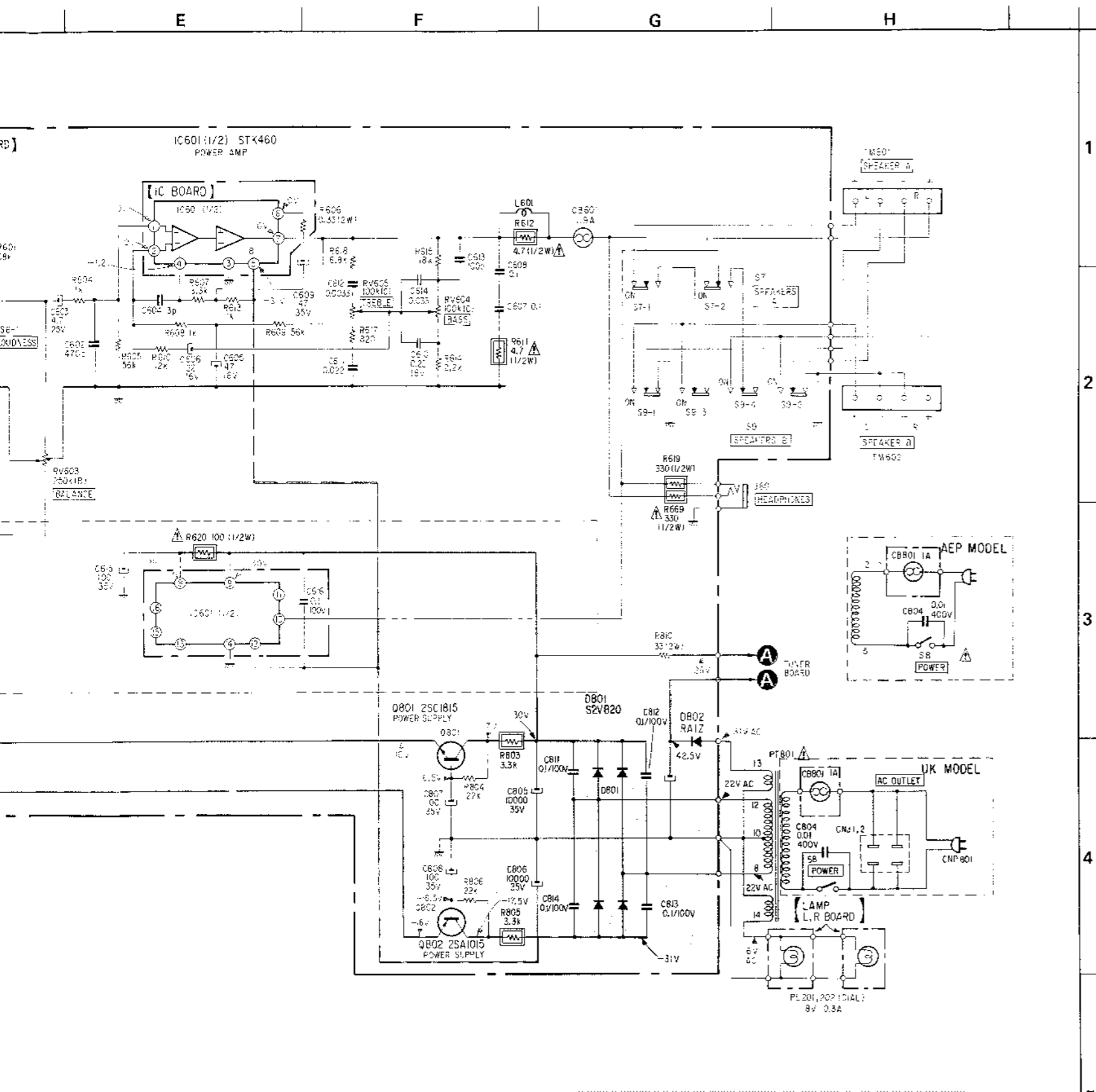


STR-242L STR-242L

4.4. SCHEMATIC DIAGRAM - AUDIO AMP SECTION -



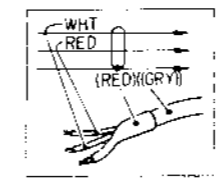
Note: The components identified by shading and Δ are critical for safety. Replace only with part number specified.



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

NOTE FOR MOUNTING DIAGRAM:

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



- Parts extracted from the component side.
- Parts extracted from the conductor side.
- Indicates side identified with part number.
- B+ pattern.

- Signal path
- L-CH signal path
- R-CH signal path

NOTE FOR SCHEMATIC DIAGRAM:

- 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, $\frac{1}{8}\text{W}$ unless otherwise noted. $\text{k}\Omega : 1000\Omega$, $\text{M}\Omega : 1000\text{k}\Omega$
- Nonflammable resistor.
- Internal component.
- 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 $\text{k}\Omega/\text{V}$).
- AM
- Voltage variations may be noted due to normal production tolerances.
- Signal path

Replacement Semiconductors

For replacement, use semiconductors except in ().

<p>Q201, 202: 2SC1364- (2SC1815)</p>	<p>Q802: 2SA1015</p>	<p>IC601: STK460</p>	<p>D404: EQB01-14 (EQA01-14R)</p>
<p>Q203: 2SA1015</p>	<p>IC201: LA1231 IC202: LA3361</p>	<p>D201-204: 1S1555</p>	<p>D801: S2VB20</p>
<p>Q401: 2SC1173</p>	<p>IC203: TL489CP</p>	<p>D206: SLP241B D207: SLP141B D209, 210, 211: SLP144B</p>	<p>D802: 10E2 (1A-1Z)</p>
<p>Q402: 2SK105A</p>	<p>IC301: LA1245</p>	<p>D208: SLP252B-06 (SLP252B)</p>	
<p>2SK23</p>	<p>IC401: μPC574J</p>	<p>D301A, B: KV1226</p>	
<p>Q801: 2SC1364 (2SC1815)</p>	<p>IC501: NJM4560D-D (NJM4560)</p>		

SECTION 5
EXPLODED VIEWS

5-1.

Note:

- Items marked "▲" 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

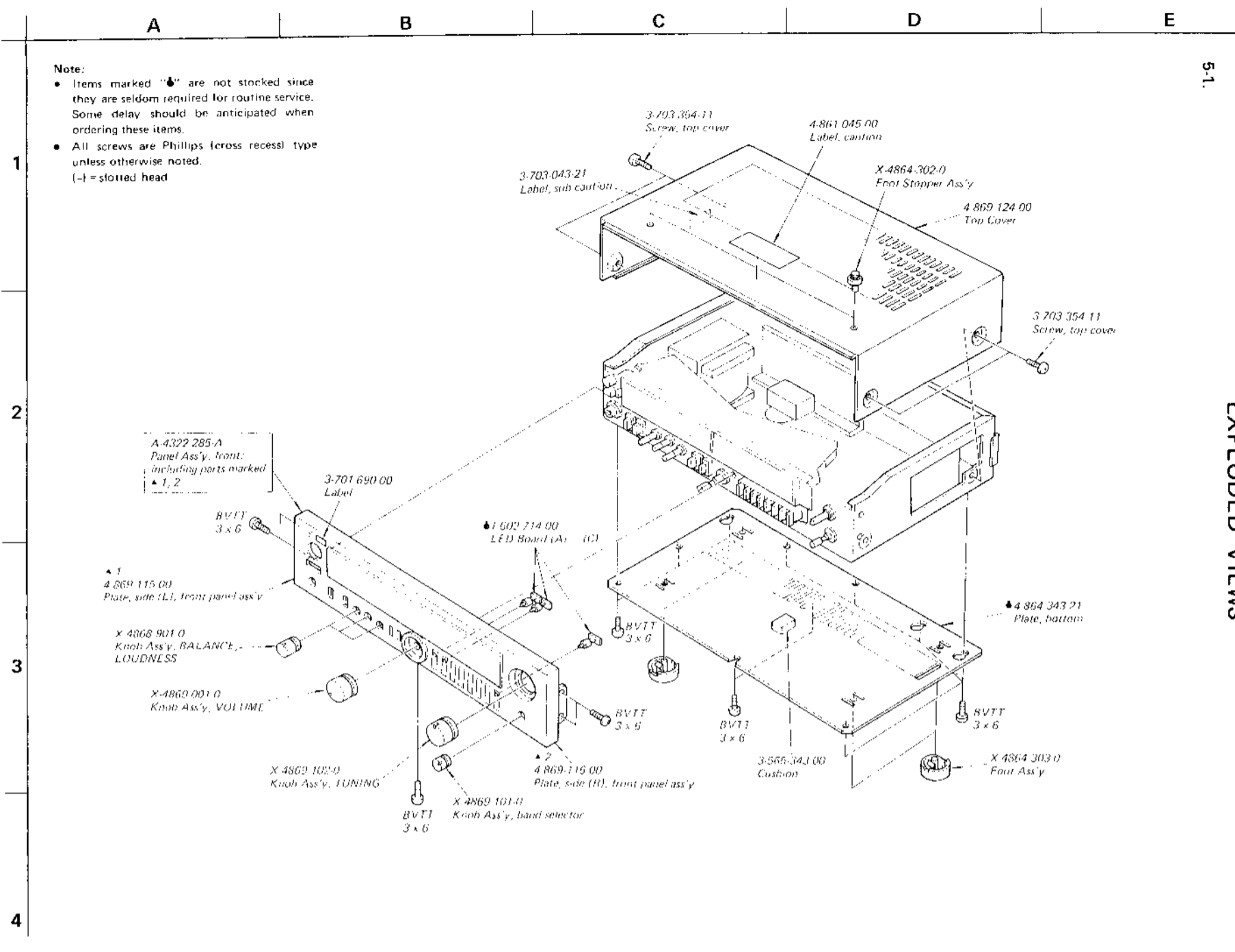
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2

3

4

-26-



5-2.

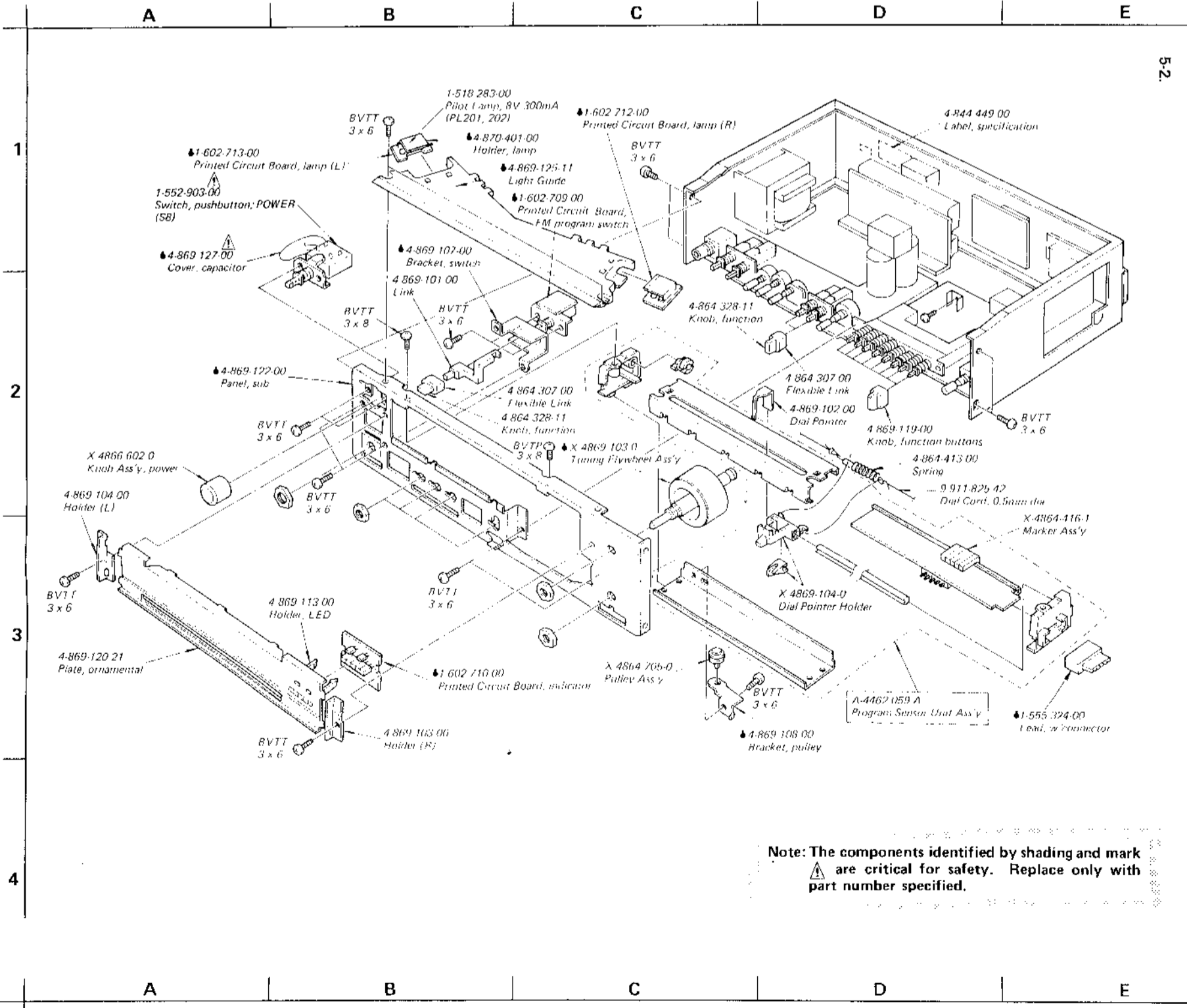
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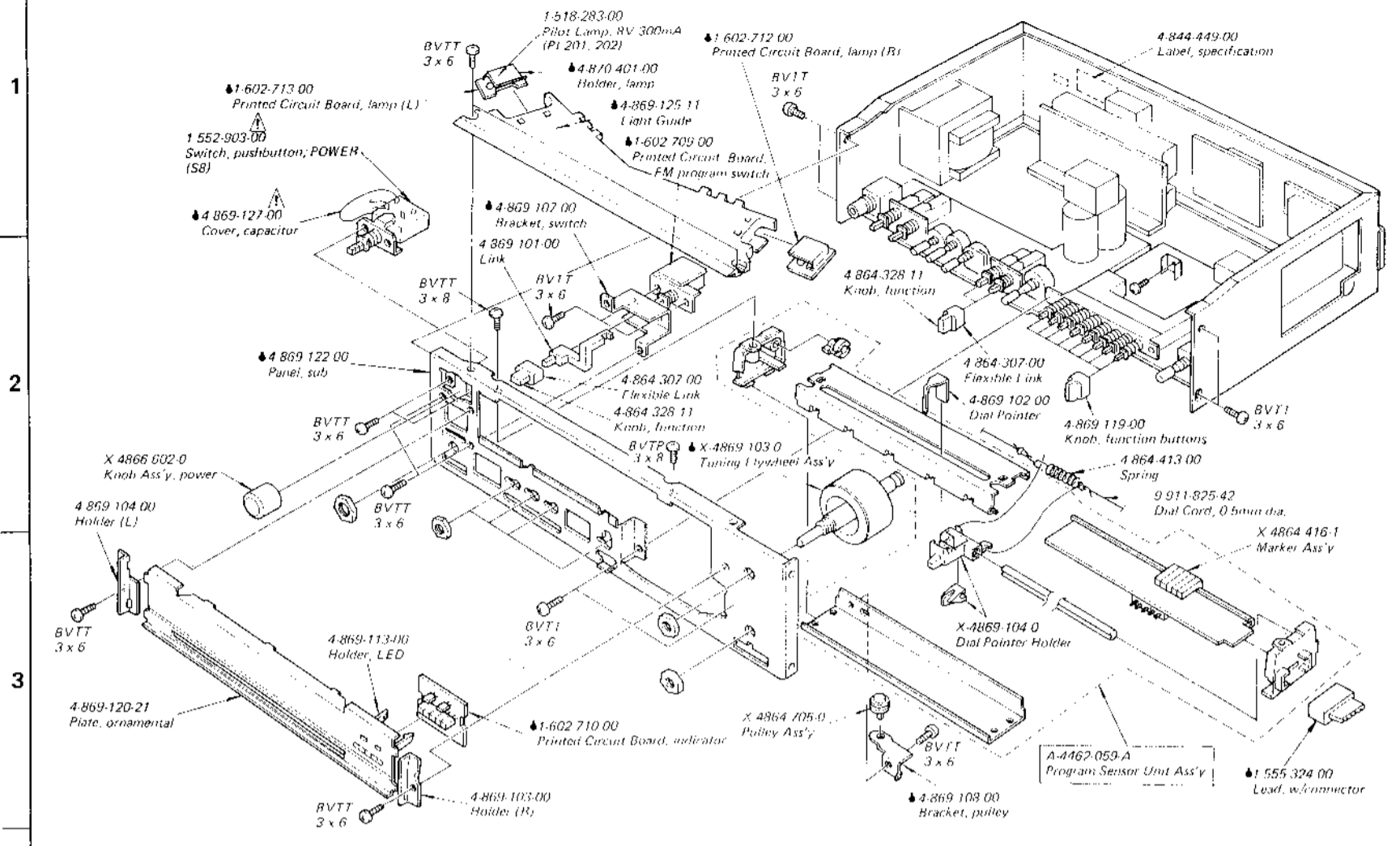
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-27-



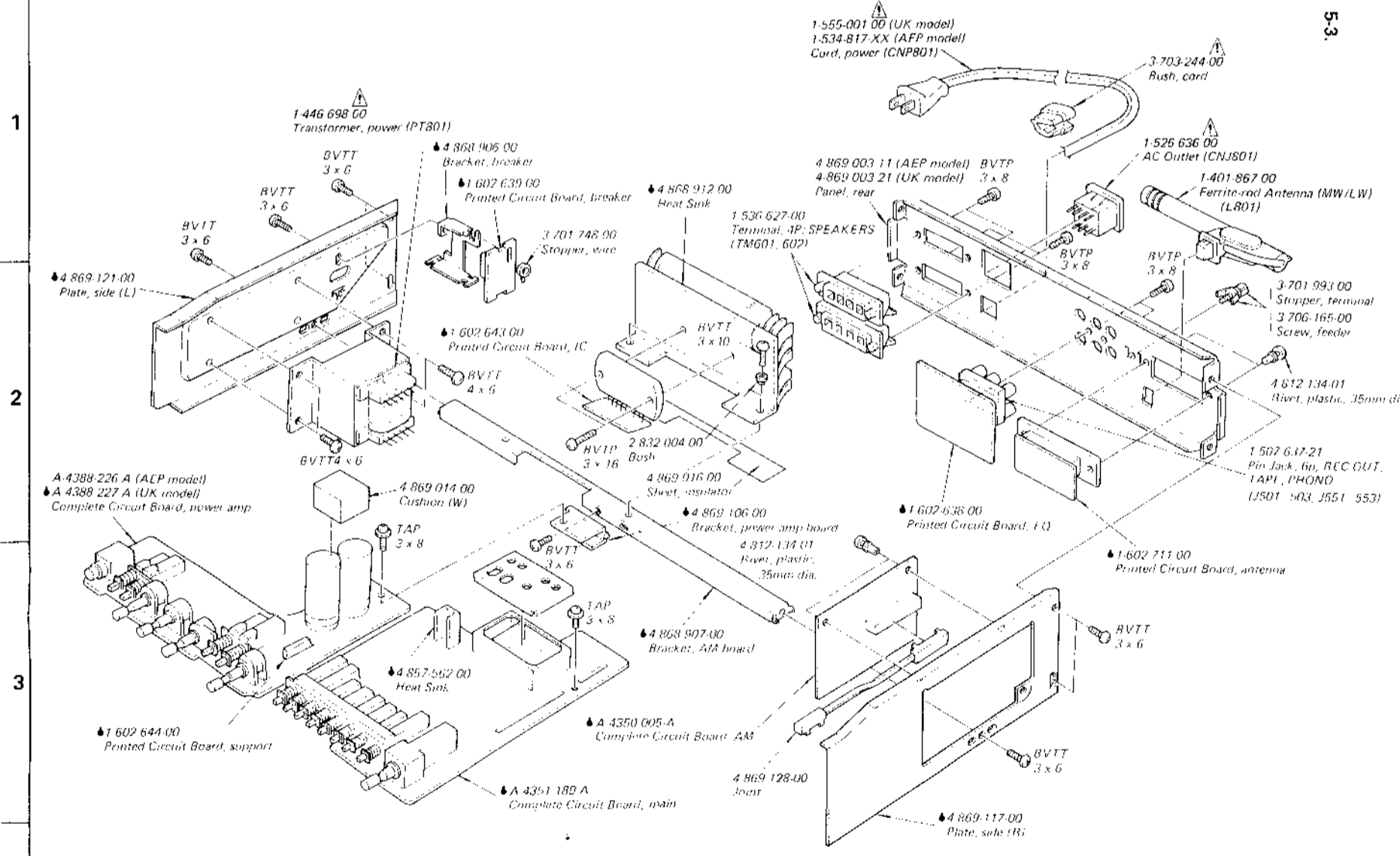
Note: The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

-27-



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

-28-



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

STR-242L STR-242L

**SECTION 6
ELECTRICAL PARTS LIST**

Ref. No. Part No. Description

SEMICONDUCTORS

Transistors

⇒ Q201, 202	8-729-663-47	2SC1364
Q203	8-729-201-52	2SA1015
Q401	8-719-217-33	2SC1173
⇒ Q402	8-729-105-40	2SK105A
⇒ Q801	8-729-663-47	2SC1364
Q802	8-729-201-52	2SA1015

ICs

IC201	8-759-812-31	LA1231
IC202	8-759-833-61	LA3361
IC203	8-759-904-89	TL489CP
IC301	8-759-812-45	LA1245
IC401	8-759-157-40	μPC574J
⇒ IC501	8-759-745-61	NJM4560D-D
IC601	8-759-846-00	STK460

Diodes

D201-204	8-719-815-55	1S1555
D206	8-719-922-41	SLP241B
D207	8-719-900-41	SLP141B
⇒ D208	8-719-925-26	SLP252B, LED BLOCK
D209-211	8-719-901-44	SLP144B
D301A, B	8-719-912-27	KV1226
⇒ D404	8-719-931-14	EQB01-14
D801	8-719-502-20	S2VB20
⇒ D802	8-719-200-02	10E2

CAPACITORS

All capacitors are in μF. Common capacitors are omitted.
Refer to the lists on pages 31 and 32 for their part numbers.

C803	△1-123-516-00	470	50V	elect
C804	△1-161-744-00	0.01	400V	ceramic
C805, 806	△1-123-642-00	10,000	35V	elect
C811-814	△1-108-389-00	0.1	100V	milar

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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

Ref. No. Part No. Description

CT301-304 1-141-171-XX Trimmer

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted. Refer to the list on page 33 for their part numbers.

R213	△1-247-099-00	47	¼W	carbon (nonflammable)
R223	△1-247-107-00	100	¼W	carbon (nonflammable)
R302	△1-247-115-00	220	¼W	carbon (nonflammable)
R401	△1-247-192-00	10	½W	carbon (nonflammable)
R402	△1-247-123-00	470	¼W	carbon (nonflammable)
R606, 656	1-207-615-00	0.33	2W	metal plate
R611, 612	△1-247-188-00	4.7	½W	carbon (nonflammable)
R619	△1-247-228-00	330	½W	carbon (nonflammable)
R620	△1-247-216-00	100	½W	carbon (nonflammable)
R669	△1-247-228-00	330	½W	carbon (nonflammable)
R803, 805	△1-247-252-00	3.3k	½W	carbon (nonflammable)
RT201	1-226-233-00	1k-B, adjustable		
RT202,203	1-226-236-00	10k-B, adjustable		
RT204	1-226-234-00	2k-B, adjustable		
RT205,206	1-226-235-00	5k-B, adjustable		
RT207	1-226-233-00	1k-B, adjustable		
RT208	1-226-239-00	100k-B, adjustable		

RV602,652	1-226-836-00	250k-B/250k-B, variable
RV603	1-226-227-00	250k-B, variable
RV604,654	1-226-862-00	100k-C/100-k-C, variable
RV605,655		

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
MISCELLANEOUS		
CB601,651	1-532-566-00	Circuit Breaker
CB801,802	▲ 1-532-535-00	Circuit Breaker
CF201	1-527-534-XX	Filter, solid state
CF301	1-527-599-00	Filter, mechanical
CNJ801	▲ 1-526-636-00	AC Outlet (UK model)
CNP801	▲ (1-534-817-XX	Cord, power (AEP model)
	1-555-001-00	Cord, power (UK model)
FE1	1-463-322-00	FM Front-end (W)
J501--503 J551--553	1-507-637-21	Pin Jack, 6p; REC OUT, TAPP, PHONO
J601	1-507-659-00	Jack; HEADPHONES
L301	1-407-169-XX	100μH, microinductor
L302	1-407-173-XX	220μH, microinductor
L305	1-405-907-00	MW OSC Coil
L309	1-405-914-00	LW OSC Coil
●L601, 651	1-420-872-00	Coil
L801	1-401-867-00	Ferrite-rod Antenna (MW, LW)
PL201,202	1-518-283-00	Pilot Lamp, 8V 300mA
PT801	▲ 1-446-698-00	Transformer, power
S1	1-553-316-00	Switch, rotary
S2	1-553-309-00	Switch, pushbutton
S3	1-553-283-00	Switch, pushbutton
S6, 7	1-553-308-00	Switch, pushbutton; LOUDNESS, SPEAKERS
S8	▲ 1-552-903-00	Switch, pushbutton; POWER
S9, 10	1-553-308-00	Switch, pushbutton; LOUDNESS, SPEAKERS
S301	1-553-314-00	Switch, slide; REMOTE TYPE
T201	1-404-170-00	Transformer, fm if
T301	1-409-348-00	Coil, mechanical filter
T302	1-404-266-00	Transformer, am if
TM601,602	1-536-627-00	Terminal, 4P; SPEAKERS
	1-217-589-00	Cross Conductor (MELF)
	1-463-322-00	Front-end (W)
	● 1-555-324-00	Lead, w/connector

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
COMPLETE CIRCUIT BOARDS		
● A-4350-005-A		AM
● A-4351-189-A		Tuner
● A-4388-226-A		Power Amp
PRINTED CIRCUIT BOARDS		
● 1-602-638-00		EQ
● 1-602-639-00		Breaker
● 1-602-643-00		IC
● 1-602-644-00		Support
● 1-602-709-00		FM PROGRAM Switch
● 1-602-710-00		Indicator
● 1-602-711-00		Antenna
● 1-602-712-00		Lamp (R)
● 1-602-713-00		Lamp (L)
● 1-602-714-00		LED (A) - (C)

ACCESSORIES AND PACKING MATERIALS

<u>Part No.</u>	<u>Description</u>
1-501-184-00	FM Ribbon Antenna
3-701-630-00	Bag, plastic
3-783-227-11	Manual, instruction
3-794-869-11	Card, operation
4-864-354-00	Sheet, plastic
4-869-009-00	Carton

- 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.**

ELECTROLYTIC CAPACITORS

Table with columns: RATING, 6.3 VOLT., 10 VOLT., 16 VOLT., 25 VOLT., 35 VOLT., 50 VOLT. and rows for CAP. (uF) values ranging from 0.47 to 3300.

Table with columns: 100 VOLT., 160 VOLT., 250 VOLT., 350 VOLT. and rows for CAP. (uF) values ranging from 0.47 to 100.

CERAMIC CAPACITORS

Table with columns: RATING, 50 VOLT., 50 VOLT., 50 VOLT., 50 VOLT. and rows for CAP. (pF) values ranging from 0.5 to 20.

0.001uF = 1,000pF

CERAMIC (SEMICONDUCTOR) CAPACITORS

Table with columns: RATING, 25 VOLT., 50 VOLT., 25 VOLT., 50 VOLT. and rows for CAP. (uF) values ranging from 0.001 to 0.015.

MYLAR CAPACITORS

Table with columns: RATING, 50 VOLT., 100 VOLT., 200 VOLT., CAP. (uF), 50 VOLT., 100 VOLT., 200 VOLT., CAP. (uF), 50 VOLT., 100 VOLT., 200 VOLT. and rows for CAP. (uF) values ranging from 0.001 to 0.0082.



TANTALUM CAPACITORS

Table with columns: RATING, 3.15 VOLT., 6.3 VOLT., 10 VOLT., 16 VOLT., 20 VOLT., 25 VOLT., 35 VOLT. and rows for CAP. (uF) values ranging from 0.01 to 100.

TANTALUM CAPACITORS

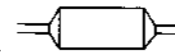
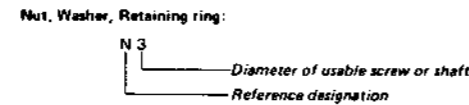
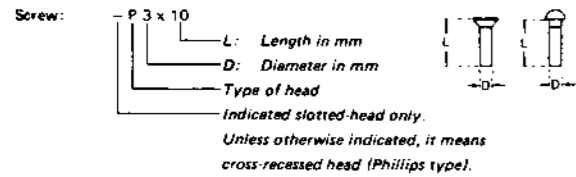














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












1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.		
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

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