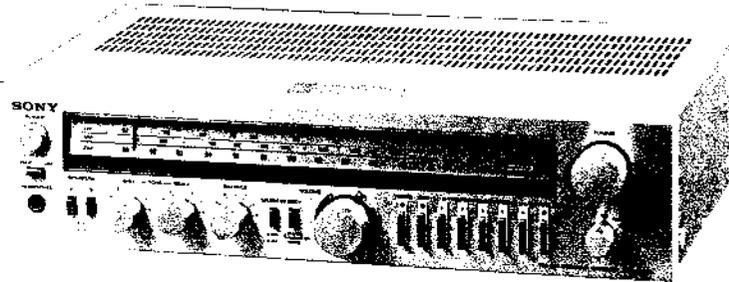


STR-242L

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

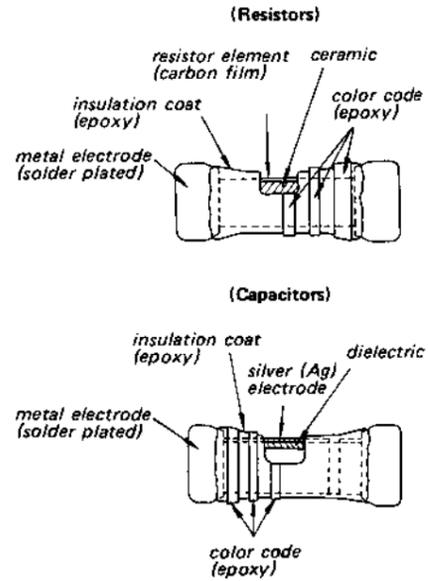


Fig. 1

2. Color Code Reading

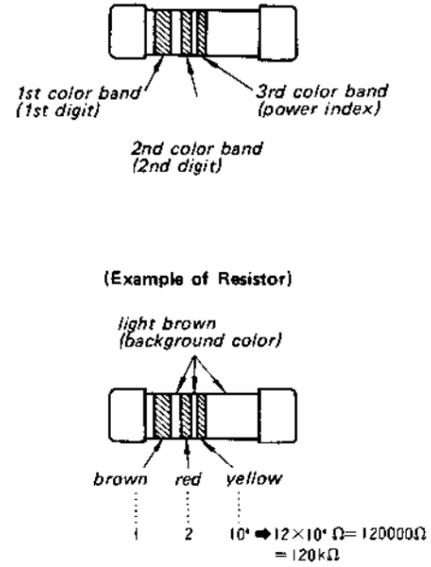


Fig. 2

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.

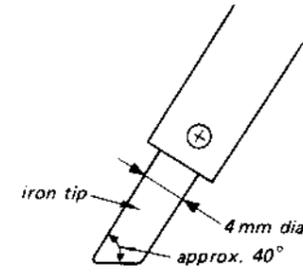


Fig. 3

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.

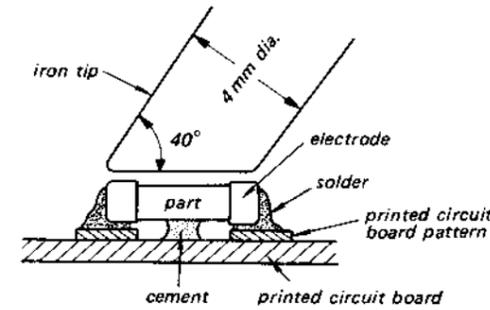


Fig. 4

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).

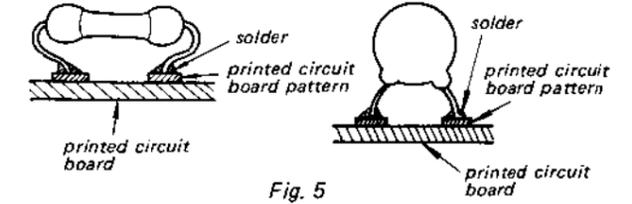


Fig. 5

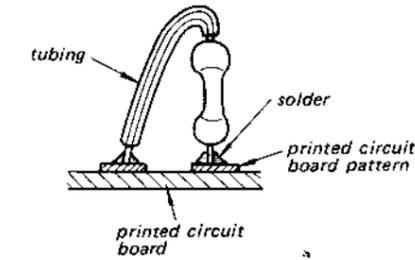
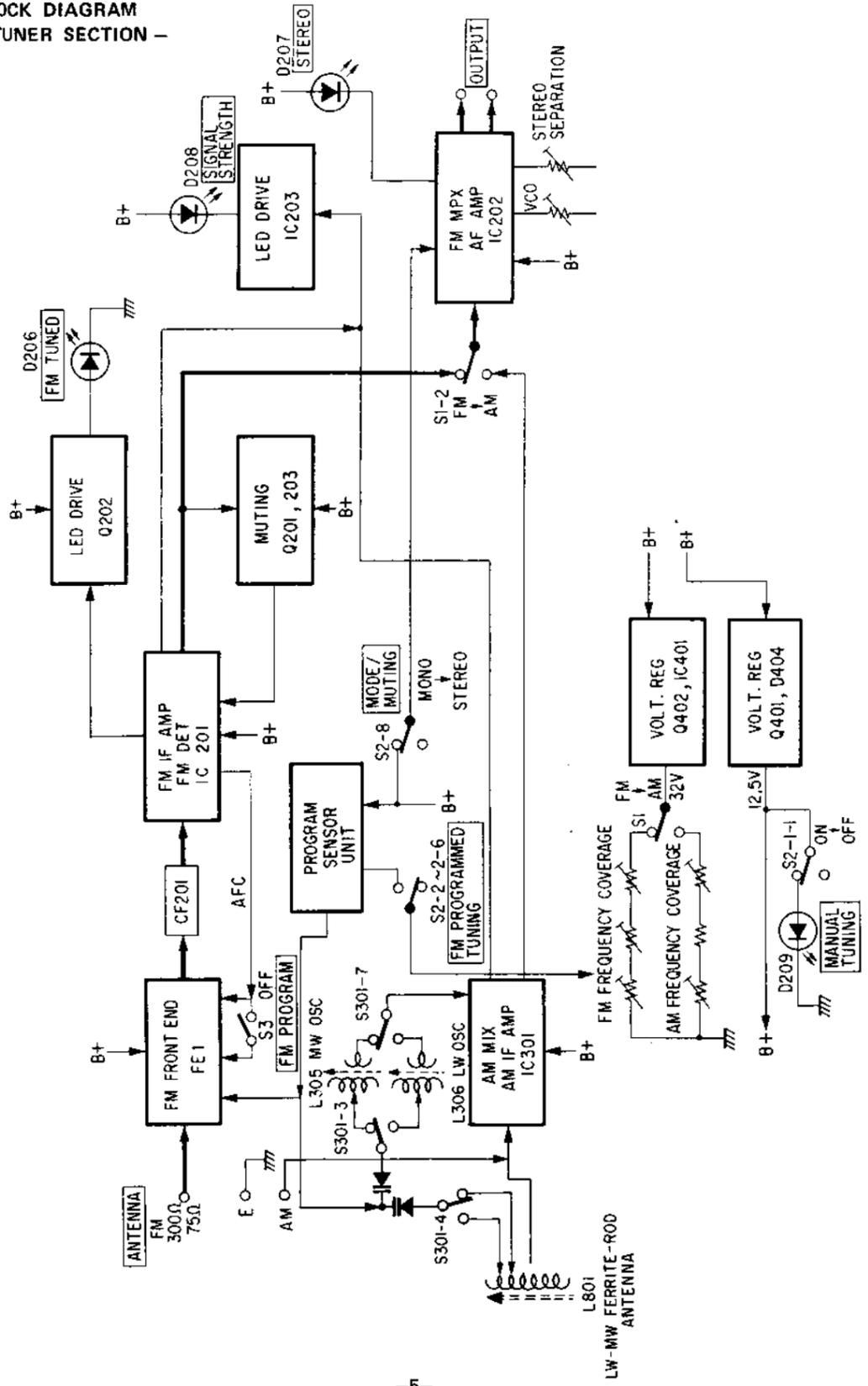


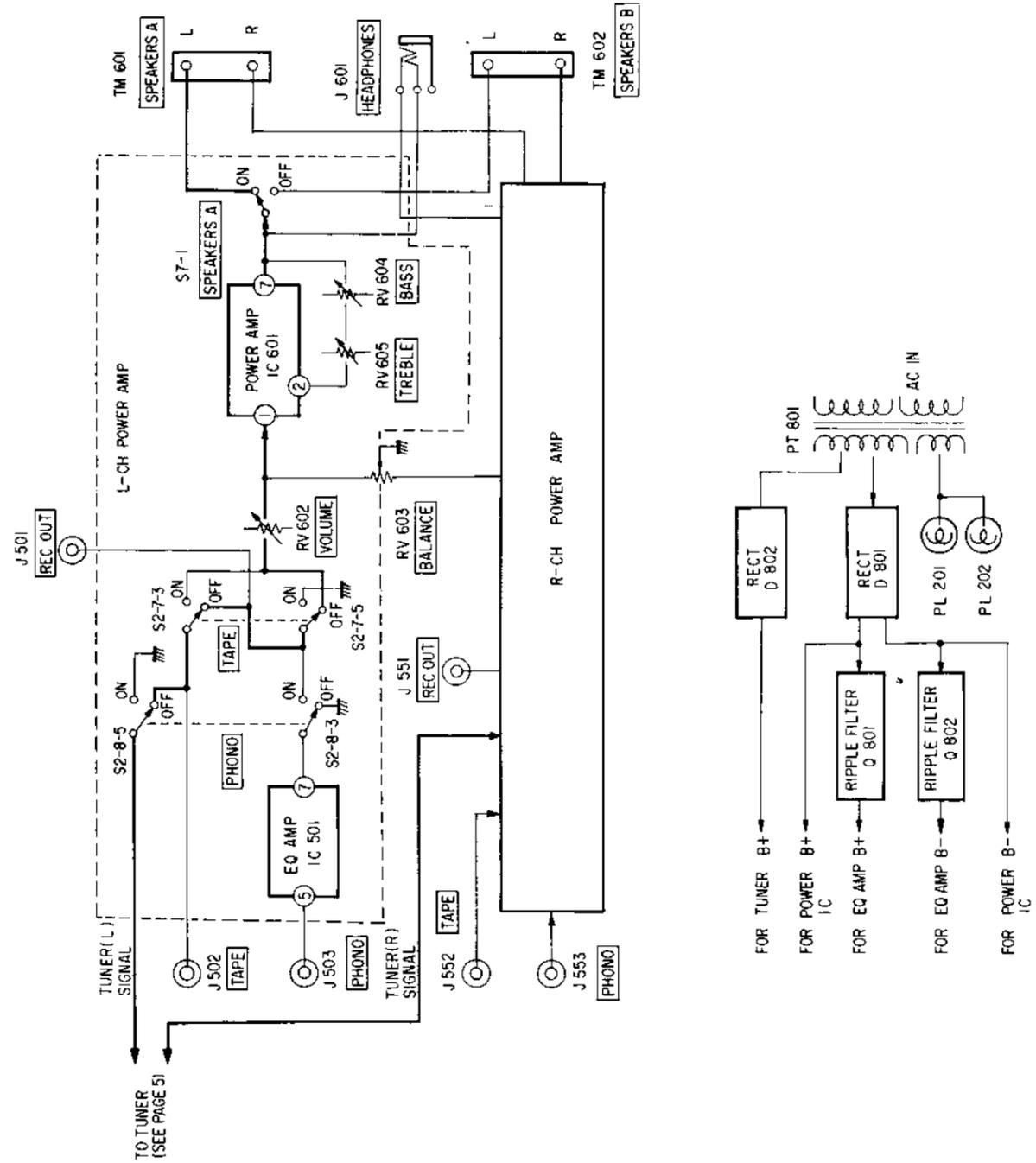
Fig. 6

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM
- TUNER SECTION -



- AUDIO AMP SECTION -



SECTION 2 DISASSEMBLY

2-1. DISASSEMBLY

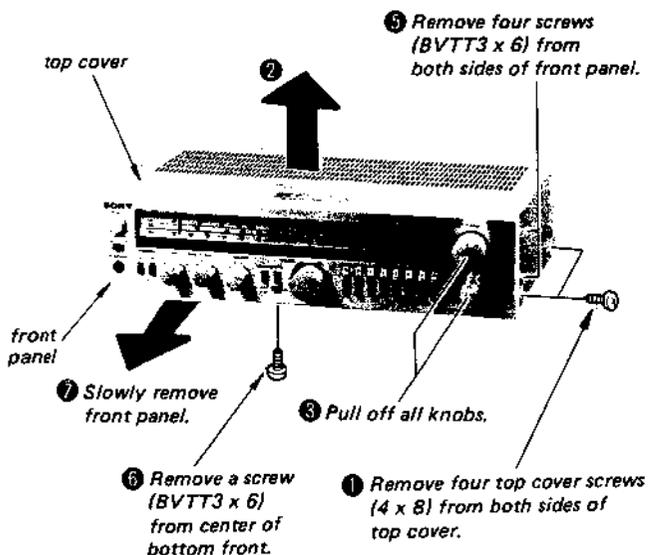
Note: Follow the disassembly procedure in the numerical order given.

TOP COVER AND FRONT PANEL

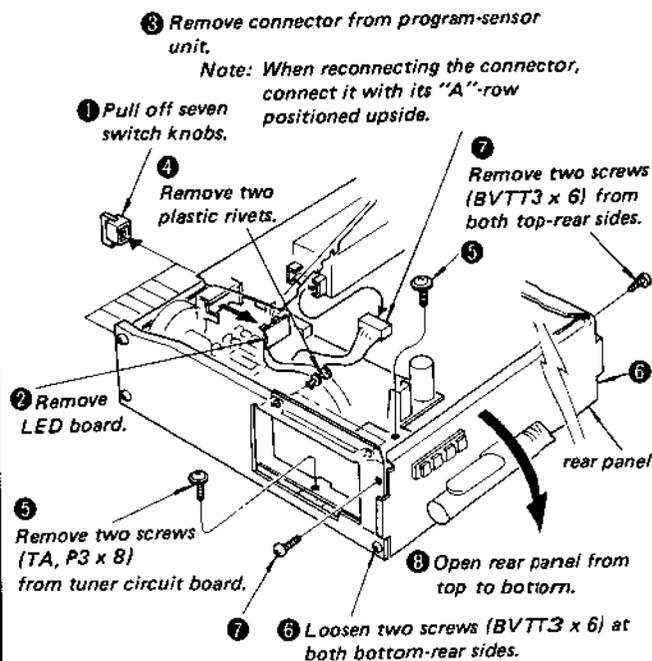
Top Cover: ① - ②

Front Panel: ① - ⑦

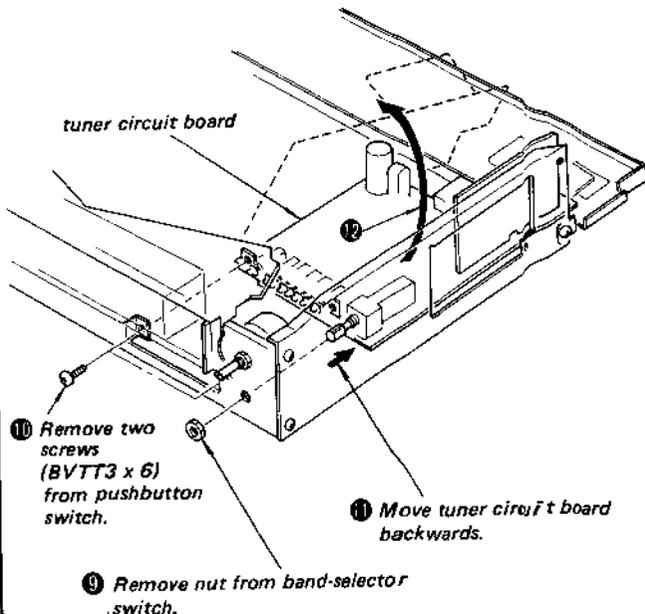
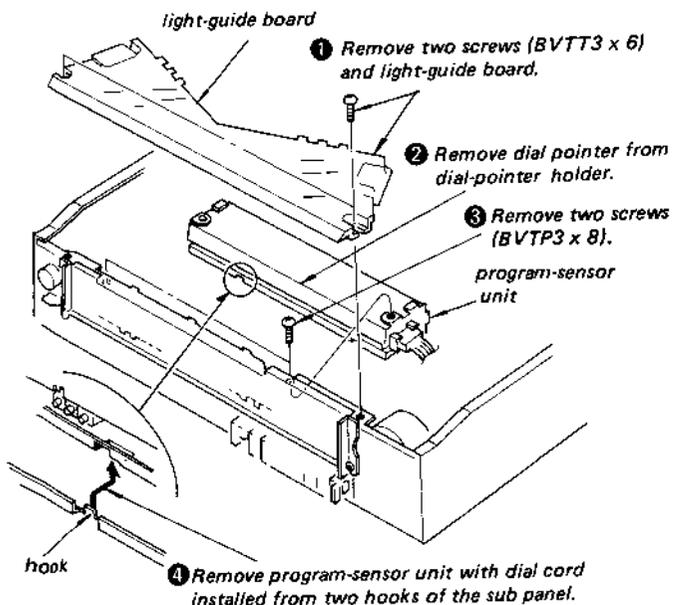
④ Remove LED (C) board from front panel.

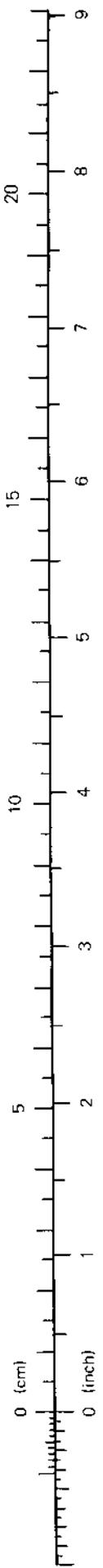


TUNER BOARD

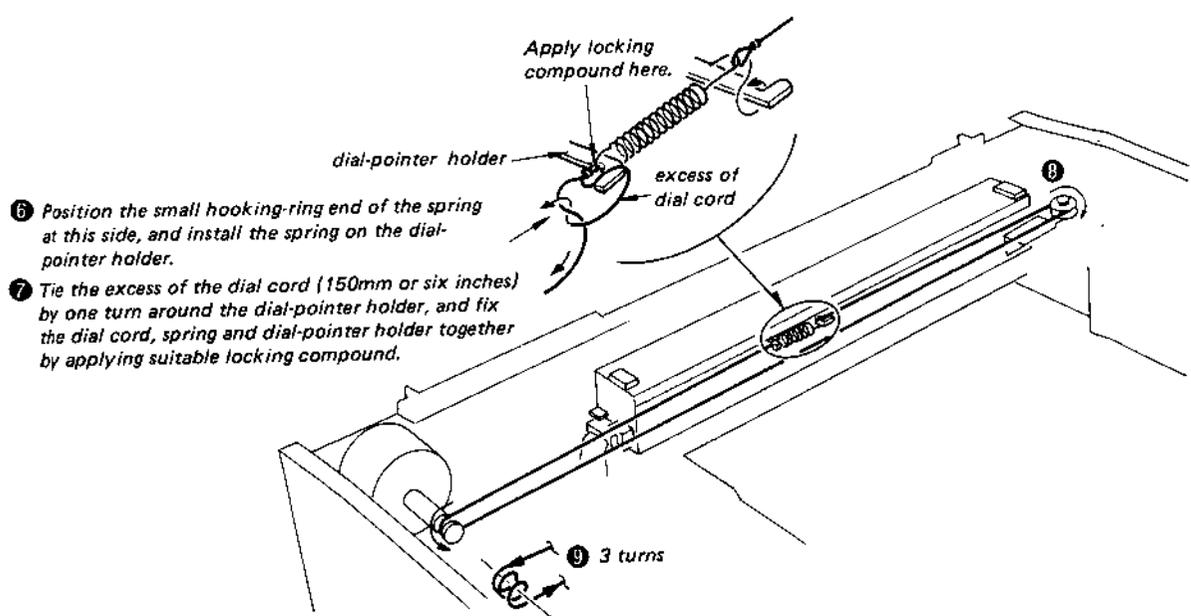
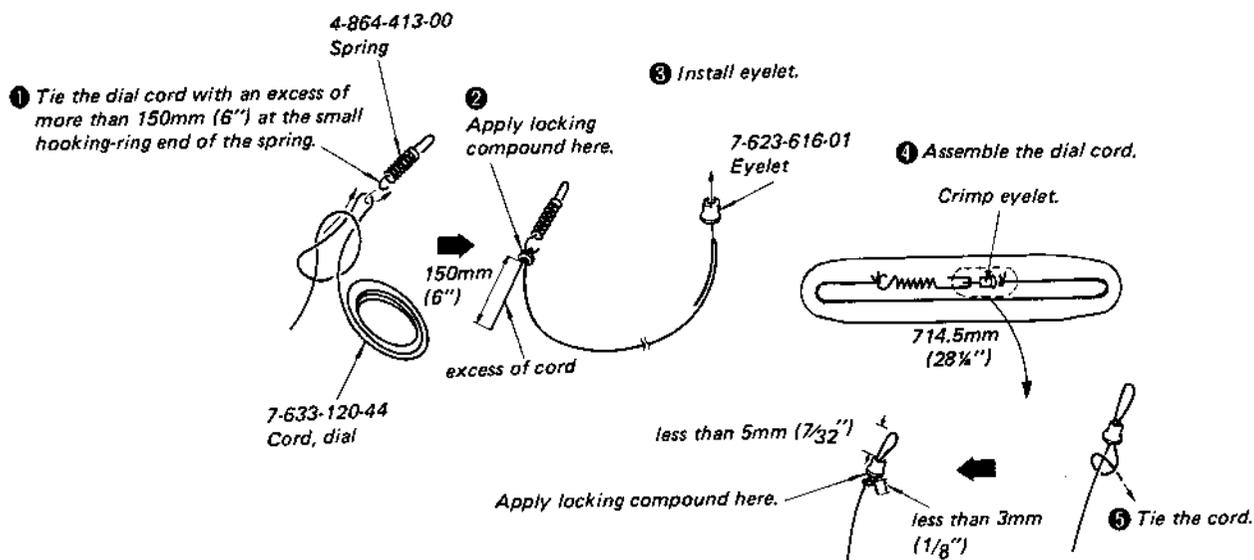


PROGRAM-SENSOR UNIT





2-2. DIAL-CORD STRINGING



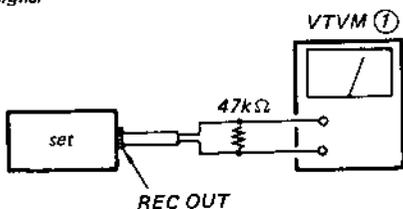
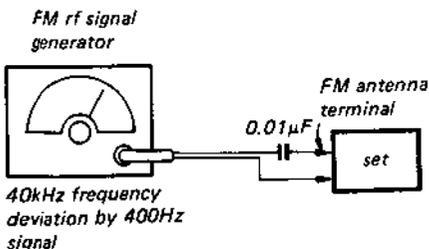
10 Verify that the dial pointer moves to the right when the TUNING knob is turned clockwise and that the TUNING knob turns smoothly.

SECTION 3 ADJUSTMENTS

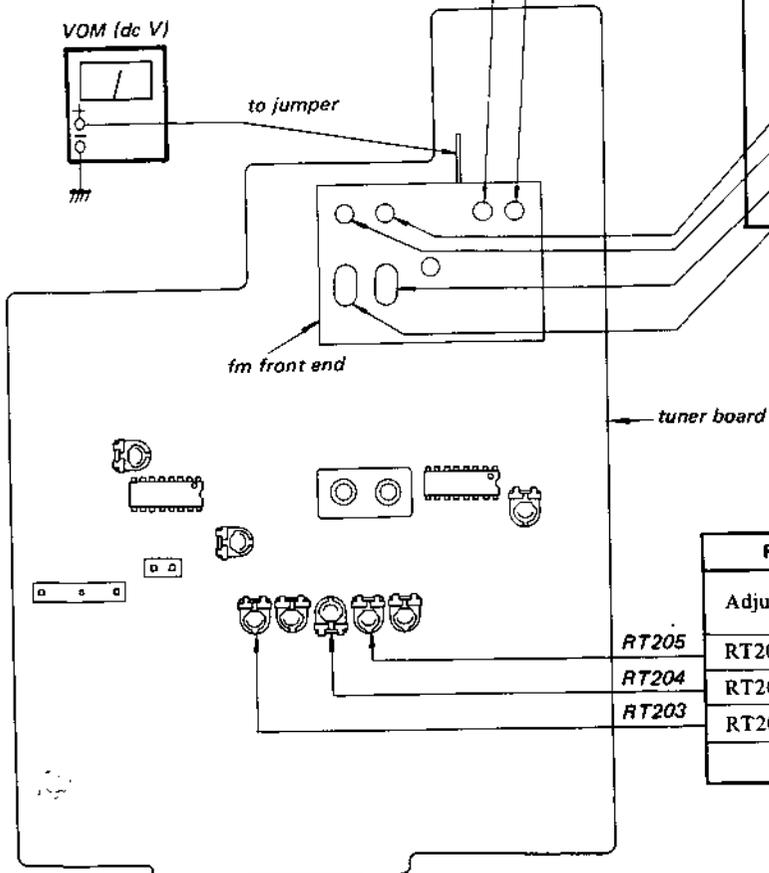
FM SECTION

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

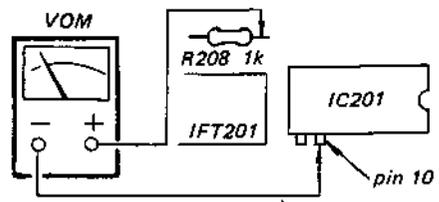
Setting:

- 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.



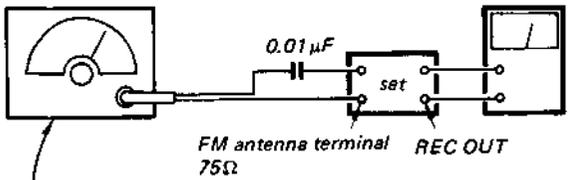
FM DISCRIMINATOR ALIGNMENT 2

Setting:

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

FM stereo signal generator

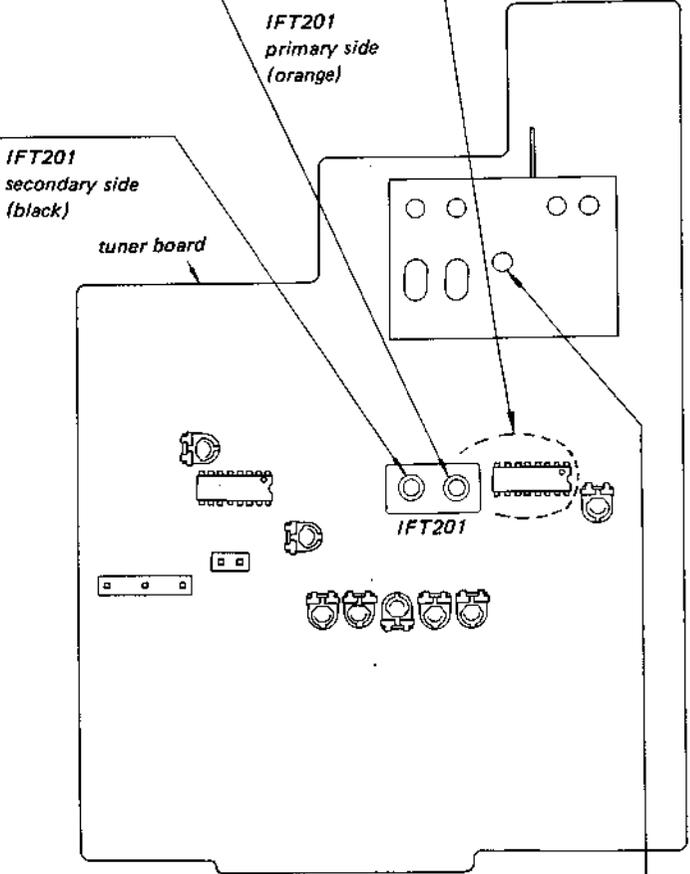
distortion meter



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

Procedure:

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

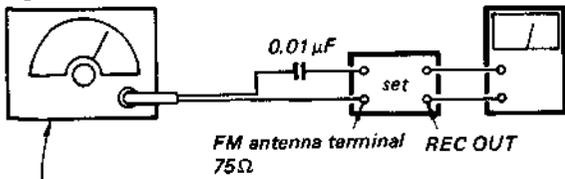


T1

FM IF ALIGNMENT

Fm rf signal generator

VTVM



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

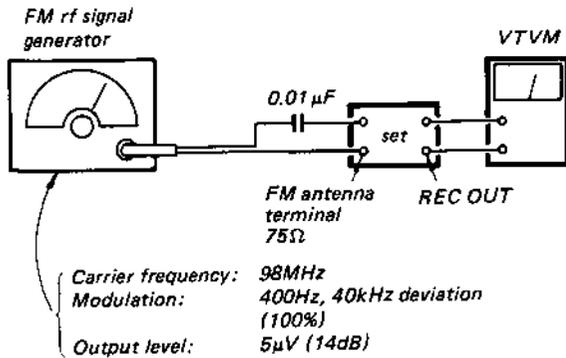
Setting:

- 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:

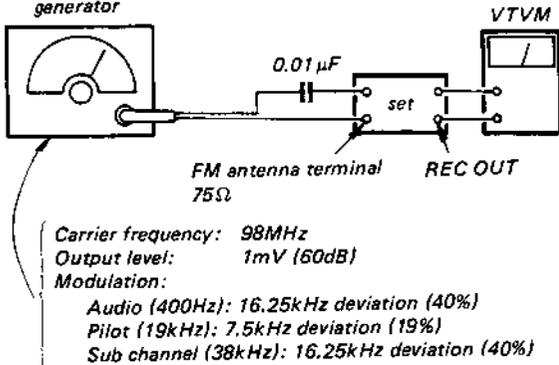
1. Turn RT208 and stop it just when the VTVM indication suddenly increases.
2. If necessary, turn RT208 fully clockwise and make sure that the VTVM indication increases when the output level of the FM rf signal generator is set to 16μV (24dB).

FM STEREO SEPARATION ADJUSTMENT

Setting:

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

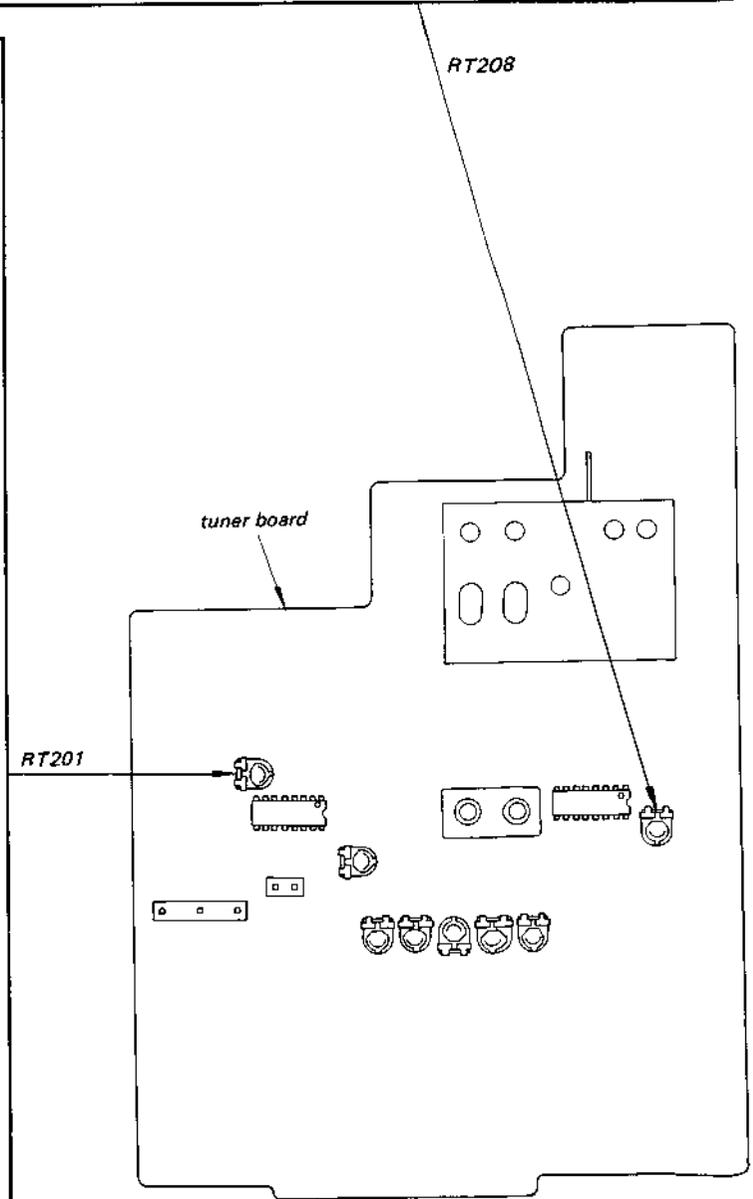
FM stereo signal generator



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.

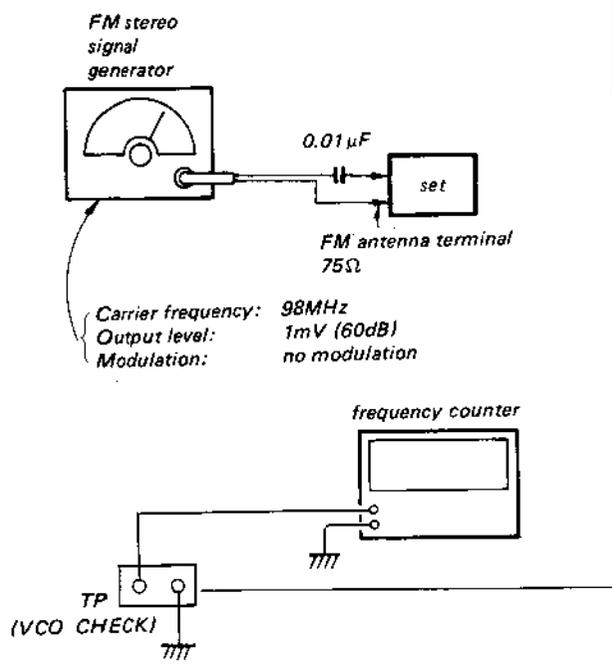


19kHz VCO ADJUSTMENT

Setting:

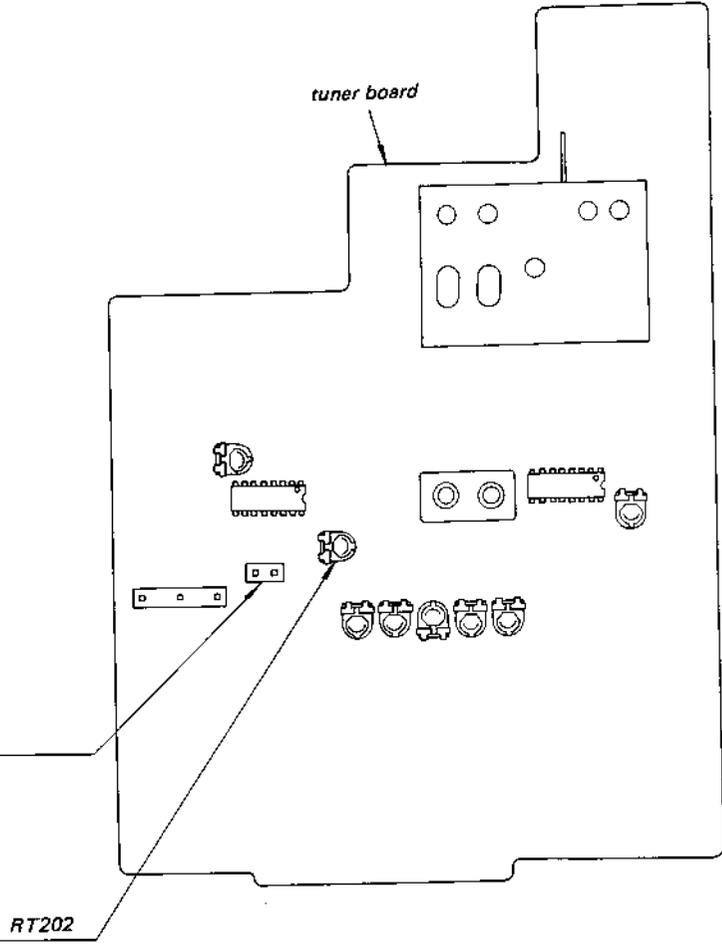
FUNCTION switch: TUNER
 Band Selector: FM
 MODE switch: STEREO

A) Regular Method



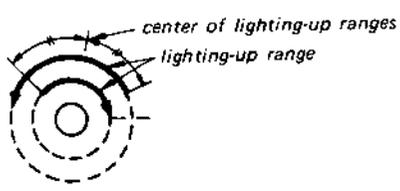
Procedure:

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



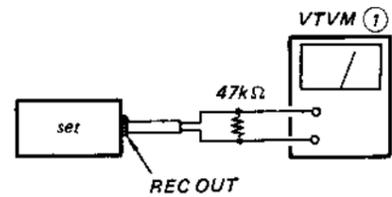
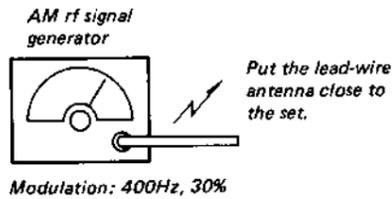
B) Simple Method

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

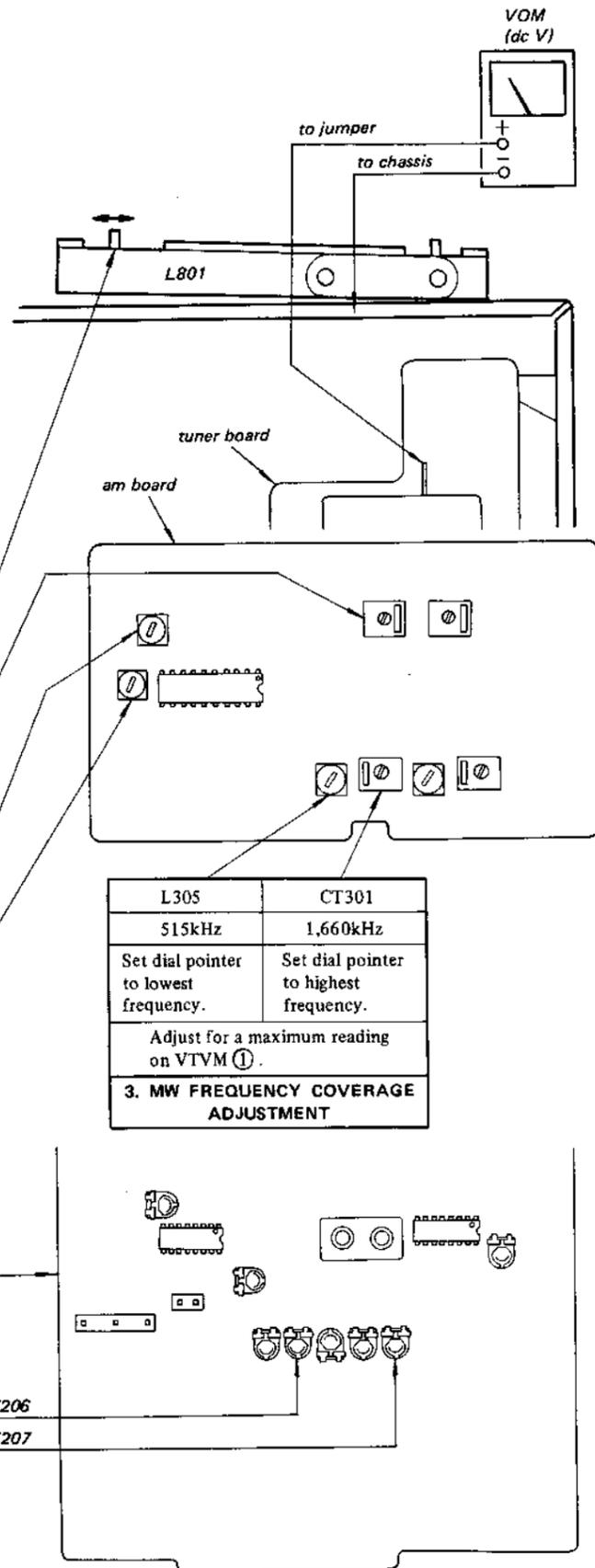
(1) Setting:
 MANUAL TUNING switch: ON
 Band Selector: MW



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 |



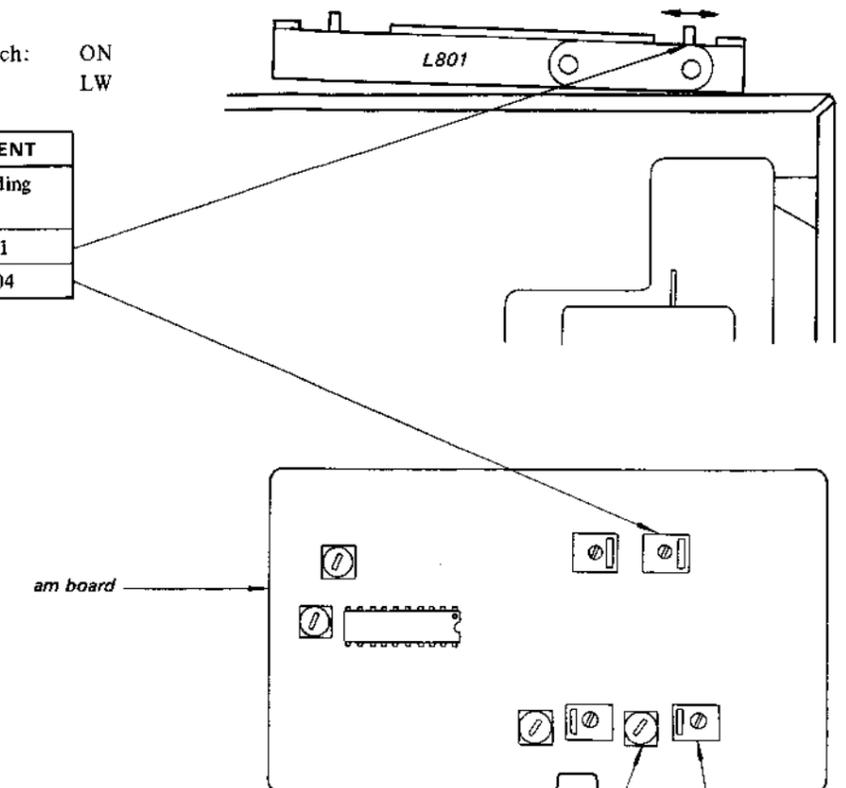
| 2. AM TUNING VOLTAGE ADJUSTMENT | | |
|---------------------------------|-------------|--------|
| Dial Indication | VOM Reading | Adjust |
| highest frequency | 25V | RT206 |
| lowest frequency | 1V | RT207 |

| L305 | CT301 |
|---|--|
| 515kHz | 1,660kHz |
| Set dial pointer to lowest frequency. | Set dial pointer to highest frequency. |
| Adjust for a maximum reading on VTVM (1). | |
| 3. MW FREQUENCY COVERAGE ADJUSTMENT | |

| 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 | |

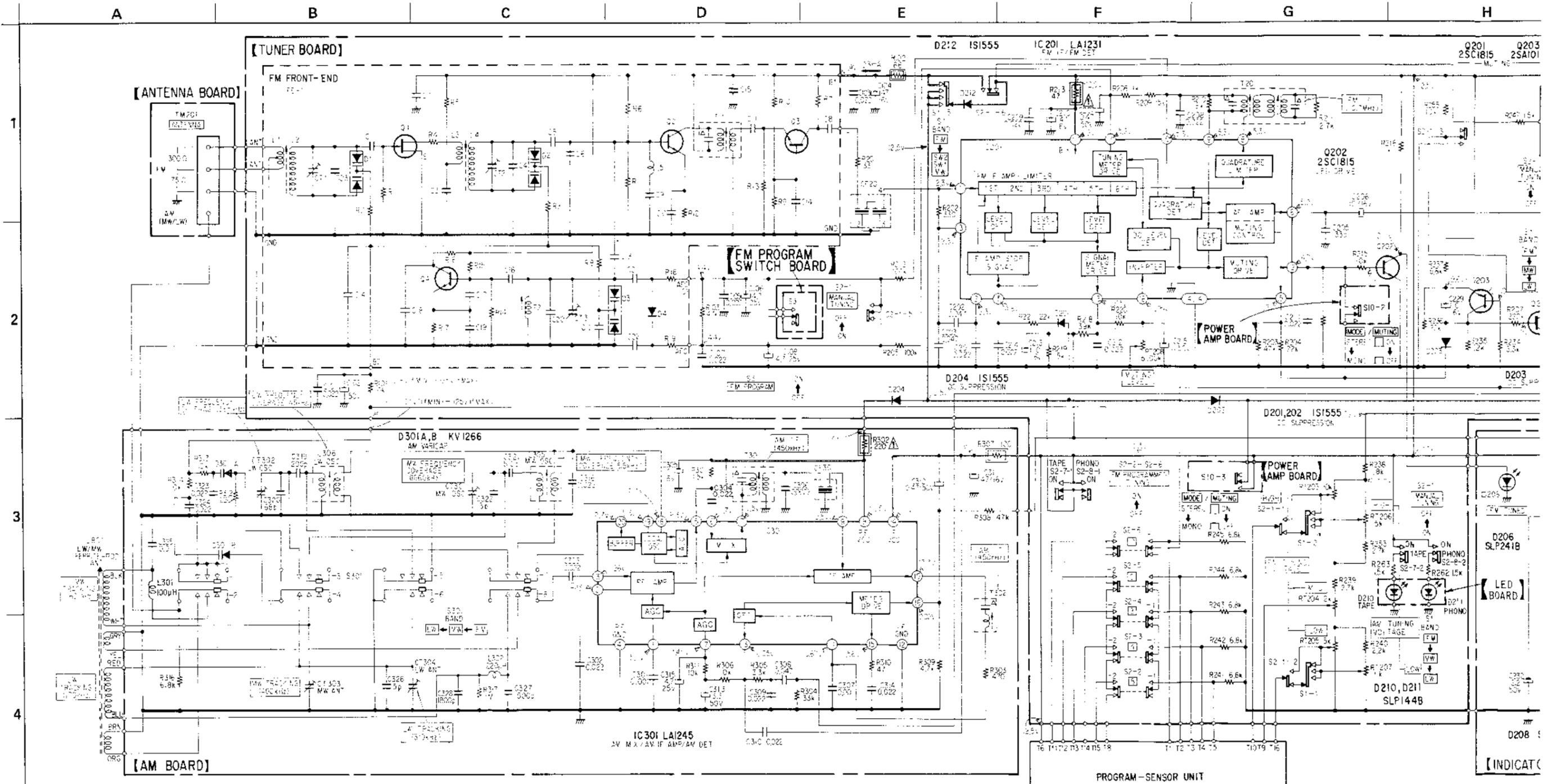
(2) Setting:
 MANUAL TUNING switch: ON
 Band Selector: LW

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



SECTION 4
DIAGRAMS

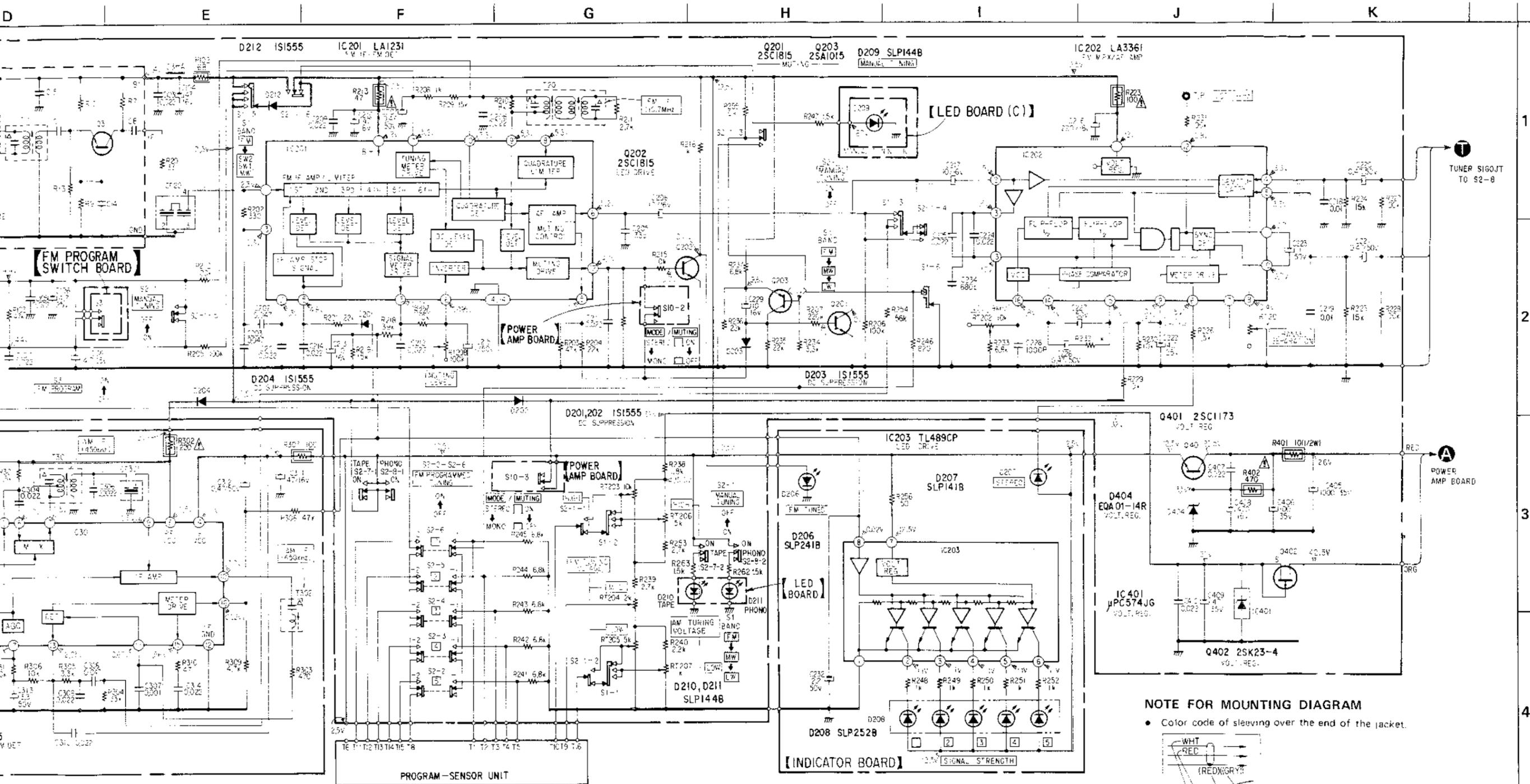
4.1. SCHEMATIC DIAGRAM - TUNER SECTION -



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. pF : μF
- All resistors are in ohms, 1/8W unless otherwise noted. kΩ : 1000 Ω, MΩ : 1000 kΩ
- : nonflammable resistor.
- : internal component.
- : signal path
- : B+ bus
- : B- bus
- Voltages are d with respect noted.
- Readings are taken under n with a VOM (2 kΩ/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.

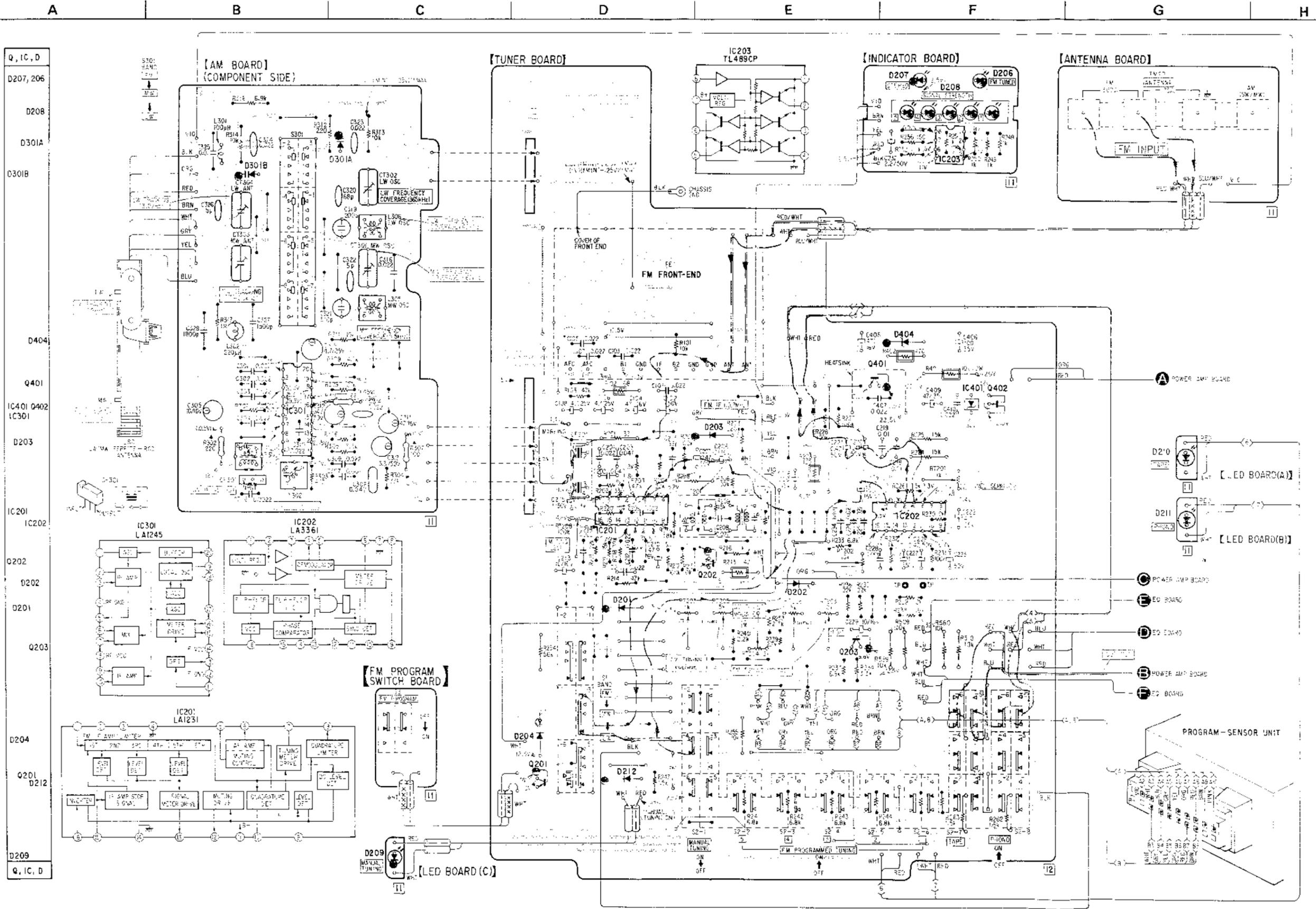
NOTE FOR SCHEMATIC DIAGRAM

- 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

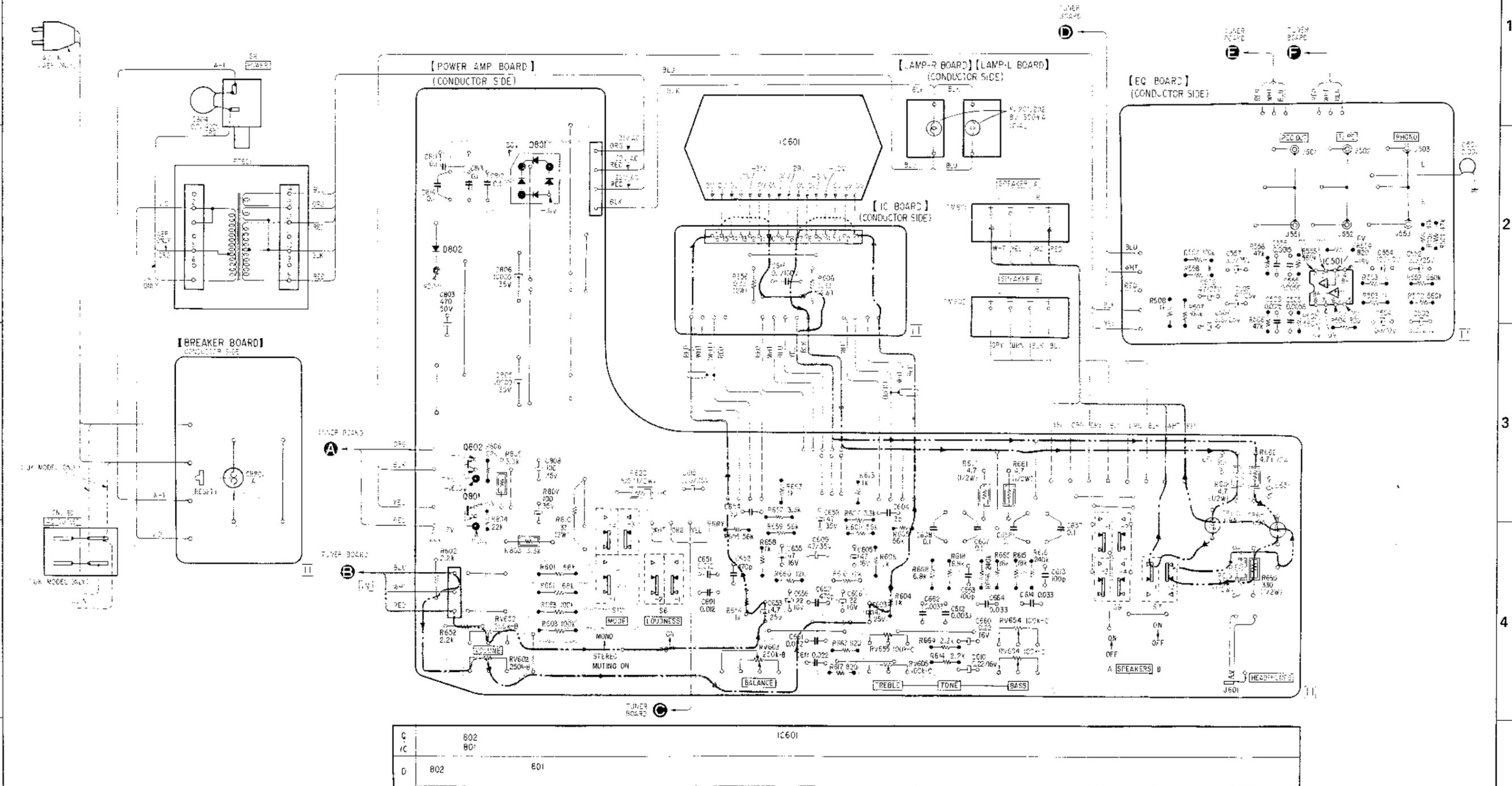
- Color code of sleeving over the end of the jacket.
- : WHT (RED) (RED/GRY)
- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : indicates side identified with part number.
- : B+ pattern
- : signal path
- : L-CH signal path
- : R-CH signal path



| 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

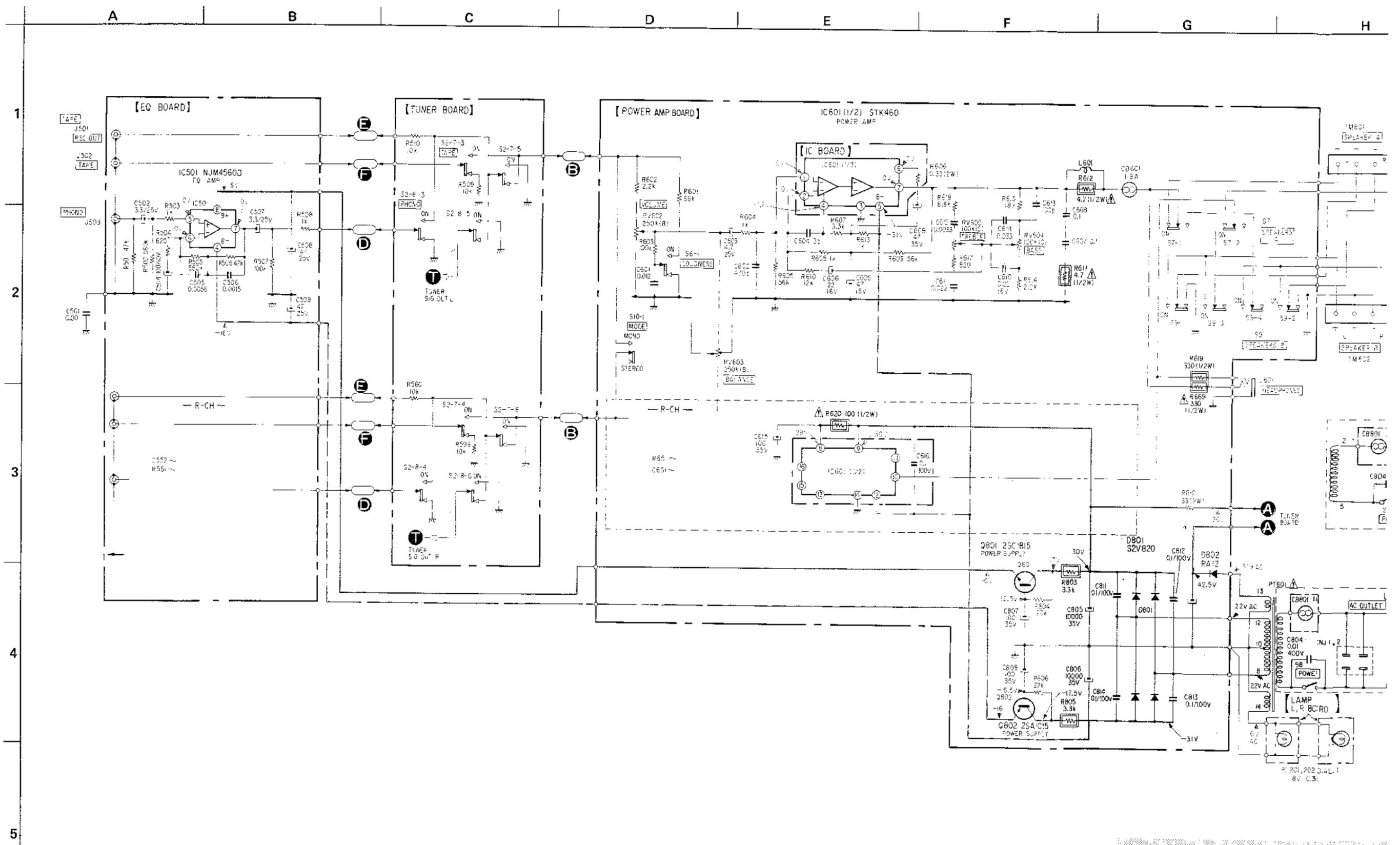
4-3. MOUNTING DIAGRAM —AUDIO AMP SECTION —
 Refer to page 25 for replacement semiconductor and the note.



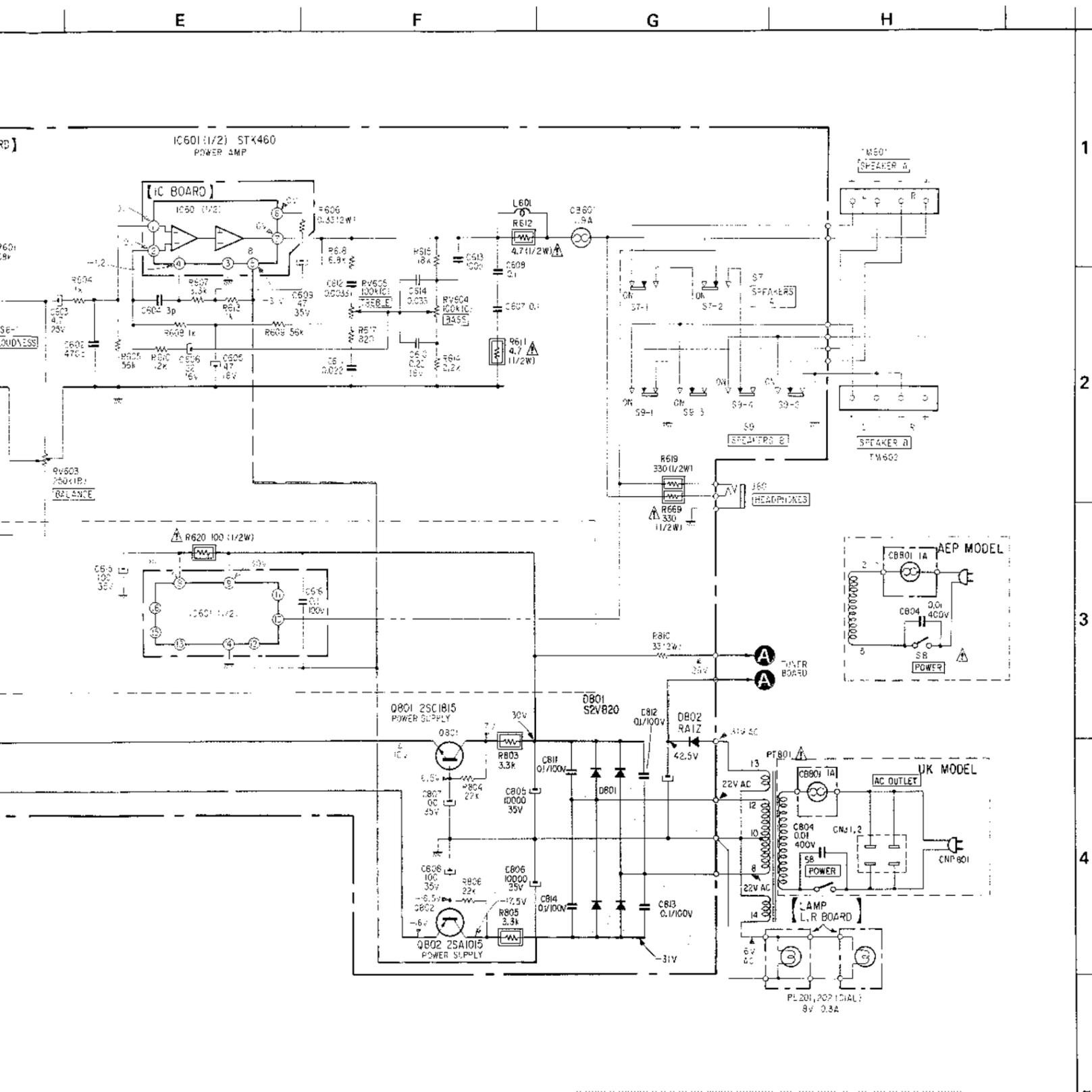
| | | |
|----|-----|-------|
| Q | 802 | IC601 |
| IC | 801 | |
| D | 802 | E01 |

STR-242L STR-242L

4.4. SCHEMATIC DIAGRAM - AUDIO AMP SECTION -



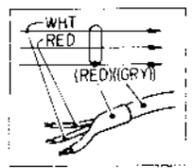
Note: The components identified by shading and Δ are critical for safety. Replace only with part number specified.



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. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{8}W$ unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000 k Ω
- 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 k Ω/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: $\mu PC574J$</p> | <p>D301A, B: KV1226</p> | |
| <p>Q801: 2SC1364 (2SC1815)</p> | <p>IC501: NJM4560D-D (NJM4560)</p> | | |

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

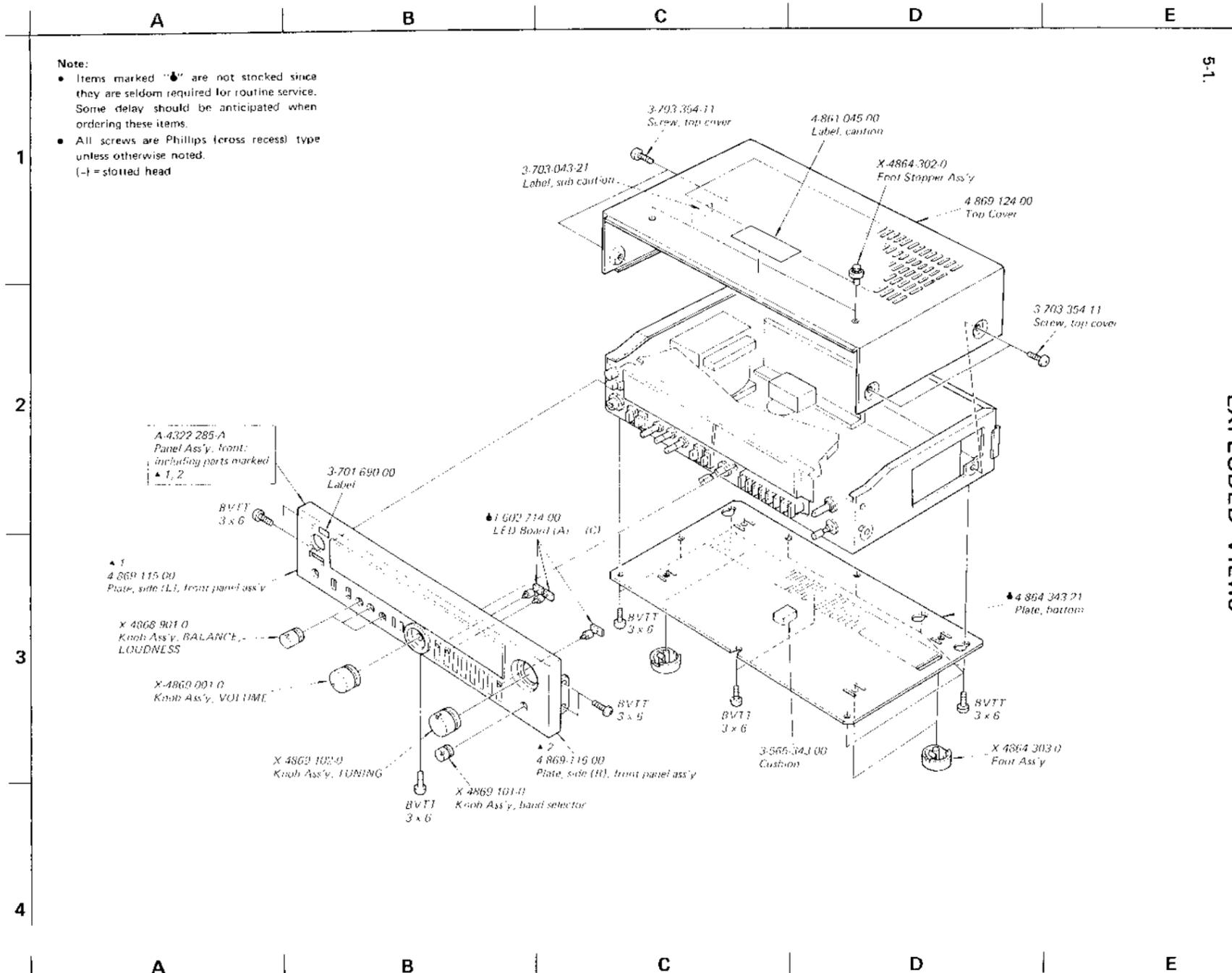
1

2

3

4

-26-



5-2.

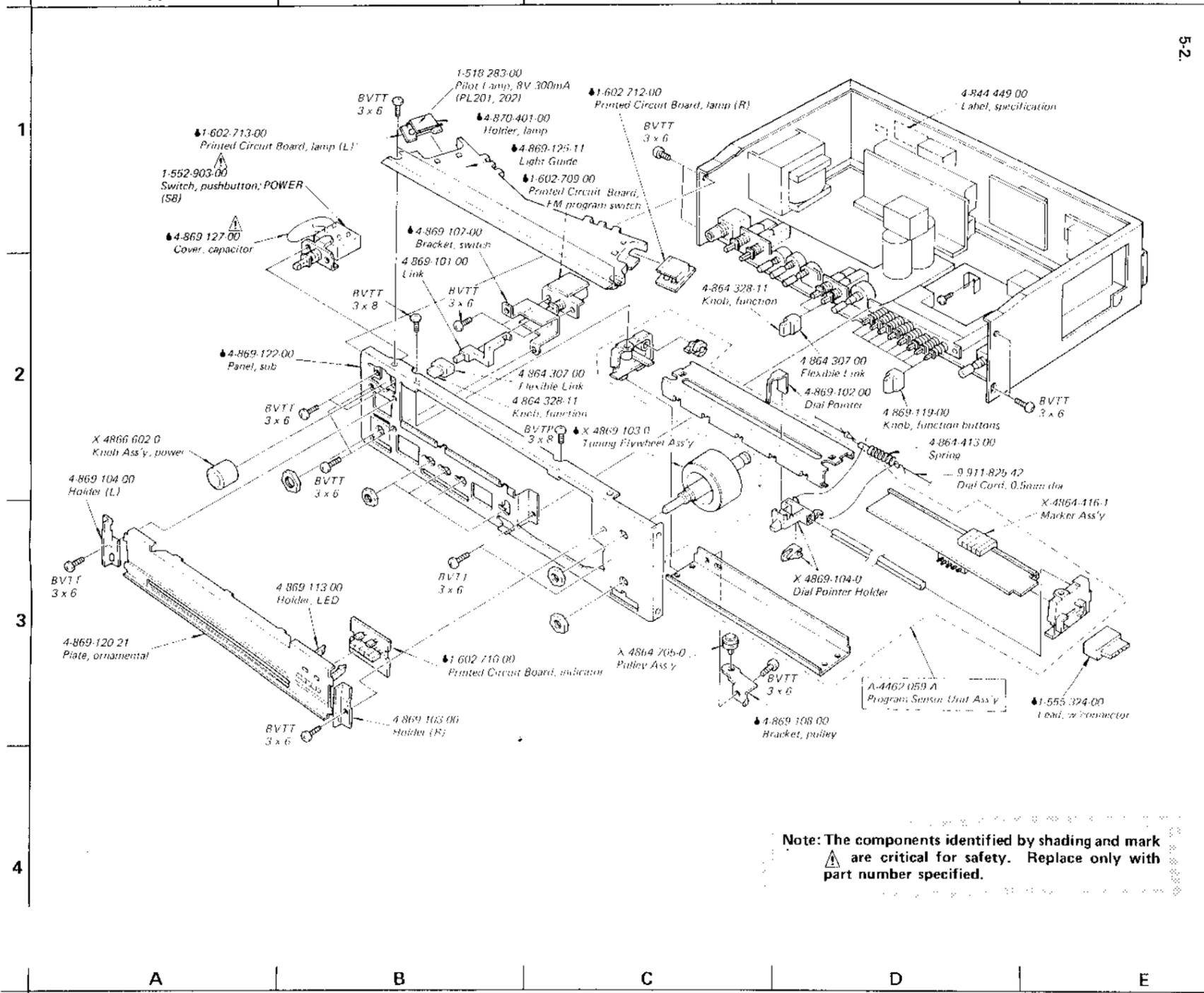
1

2

3

4

-27-



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

**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

| CAP. (μF) | RATING → Use the high voltage rated one. | | | | | |
|-----------|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 6.3 VOLT. PART No. | 10 VOLT. PART No. | 16 VOLT. PART No. | 25 VOLT. PART No. | 35 VOLT. PART No. | 50 VOLT. PART No. |
| 0.47 | | | | | → | 1-121-726-00 |
| 1.0 | | | | | → | 1-121-391-00 |
| 2.2 | | | | | → | 1-121-450-00 |
| 3.3 | → | → | → | 1-121-392-00 | → | 1-121-393-00 |
| 4.7 | → | → | → | 1-121-395-00 | → | 1-121-396-00 |
| 10 | → | → | 1-121-651-00 | 1-121-398-00 | → | 1-121-736-00 |
| 22 | → | → | 1-121-479-00 | 1-121-480-00 | 1-121-662-00 | 1-121-152-00 |
| 33 | → | → | 1-121-403-00 | 1-121-404-00 | 1-121-652-00 | 1-121-405-00 |
| 47 | → | 1-121-352-00 | 1-121-409-00 | 1-121-410-00 | 1-121-653-00 | 1-121-411-00 |
| 100 | → | 1-121-414-00 | 1-121-415-00 | 1-121-416-00 | 1-121-357-00 | 1-121-417-00 |
| 220 | 1-121-417-00 | 1-121-420-00 | 1-121-421-00 | 1-121-422-00 | 1-121-261-00 | 1-121-423-00 |
| 330 | 1-121-751-00 | 1-121-805-00 | 1-121-521-00 | 1-121-654-00 | 1-121-655-00 | 1-121-656-00 |
| 470 | 1-121-474-00 | 1-121-425-00 | 1-121-426-00 | 1-121-733-00 | 1-121-361-00 | 1-121-810-00 |
| 1000 | → | 1-121-736-00 | 1-121-745-00 | 1-121-657-00 | 1-121-388-00 | 1-123-061-00 |
| 2200 | 1-121-658-00 | 1-121-659-00 | 1-121-660-00 | 1-123-067-00 | 1-121-984-00 | → |
| 3300 | 1-121-661-00 | 1-123-075-00 | 1-123-071-00 | → | → | → |

| CAP. (μF) | 100 VOLT. PART No. | 160 VOLT. PART No. | 250 VOLT. PART No. | 350 VOLT. PART No. |
|-----------|--------------------|--------------------|--------------------|--------------------|
| | 0.47 | → | → | → |
| 1.0 | 1-123-249-00 | 1-123-252-00 | 1-123-003-00 | 1-121-168-00 |
| 2.2 | 1-123-250-00 | 1-123-026-00 | → | 1-123-028-00 |
| 3.3 | 1-121-995-00 | → | 1-123-004-00 | 1-123-006-00 |
| 4.7 | 1-123-255-00 | 1-121-246-00 | 1-121-759-00 | 1-123-007-00 |
| 10 | 1-121-126-00 | 1-121-999-00 | 1-123-254-00 | 1-123-008-00 |
| 22 | 1-121-996-00 | 1-123-253-00 | 1-123-005-00 | 1-123-022-00 |
| 33 | 1-121-997-00 | 1-121-757-00 | → | → |
| 47 | 1-123-251-00 | 1-121-919-00 | → | → |
| 100 | 1-123-084-00 | → | → | → |

CERAMIC CAPACITORS

| CAP. (pF) | RATING | | | | | | | |
|-----------|-------------------|-----|-------------------|-----|-------------------|--------|-------------------|--|
| | 50 VOLT. PART No. | | 50 VOLT. PART No. | | 50 VOLT. PART No. | | 50 VOLT. PART No. | |
| 0.5 | 1-101-837-00 | 22 | 1-102-959-00 | 150 | 1-101-361-00 | 0.001 | 1-102-074-00 | |
| 0.75 | 1-101-586-00 | 24 | 1-102-960-00 | 160 | 1-101-367-00 | 0.0012 | 1-102-118-00 | |
| 1.0 | 1-102-934-00 | 27 | 1-102-961-00 | 180 | 1-102-976-00 | 0.0015 | 1-102-119-00 | |
| 1.5 | 1-101-576-00 | 30 | 1-102-962-00 | 200 | 1-102-977-00 | 0.0018 | 1-102-120-00 | |
| 2.0 | 1-102-935-00 | 33 | 1-102-963-00 | 220 | 1-102-978-00 | 0.0022 | 1-102-121-00 | |
| 3 | 1-102-936-00 | 36 | 1-102-964-00 | 240 | 1-102-979-00 | 0.0027 | 1-102-122-00 | |
| 4 | 1-102-937-00 | 39 | 1-102-965-00 | 270 | 1-102-980-00 | 0.0033 | 1-102-123-00 | |
| 5 | 1-102-942-00 | 43 | 1-102-966-00 | 300 | 1-102-981-00 | 0.0039 | 1-102-124-00 | |
| 6 | 1-102-943-00 | 47 | 1-101-880-00 | 330 | 1-102-820-00 | 0.0047 | 1-102-125-00 | |
| 7 | 1-102-944-00 | 51 | 1-101-882-00 | 360 | 1-102-821-00 | 0.0056 | 1-102-126-00 | |
| 8 | 1-102-945-00 | 56 | 1-101-884-00 | 390 | 1-102-822-00 | 0.0068 | 1-102-127-00 | |
| 9 | 1-102-946-00 | 62 | 1-101-886-00 | 430 | 1-102-823-00 | 0.0082 | 1-102-128-00 | |
| 10 | 1-102-947-00 | 68 | 1-101-888-00 | 470 | 1-102-824-00 | 0.01 | 1-102-129-00 | |
| 11 | 1-102-948-00 | 75 | 1-101-890-00 | 510 | 1-101-059-00 | 0.022 | 1-101-005-00 | |
| 12 | 1-102-949-00 | 82 | 1-102-971-00 | 560 | 1-102-113-00 | 0.047 | 1-101-006-00 | |
| 13 | 1-102-950-00 | 91 | 1-102-972-00 | 600 | 1-102-116-00 | → | → | |
| 15 | 1-102-951-00 | 100 | 1-102-973-00 | 820 | 1-102-117-00 | → | → | |
| 16 | 1-102-952-00 | 110 | 1-102-815-00 | → | → | → | → | |
| 18 | 1-102-953-00 | 120 | 1-102-816-00 | → | → | → | → | |
| 20 | 1-102-958-00 | 130 | 1-101-081-00 | → | → | → | → | |

0.001μF = 1,000pF

CERAMIC (SEMICONDUCTOR) CAPACITORS

| CAP. (μF) | RATING → Use the high voltage rated one. | | | | |
|-----------|--|-------------------|-----------|-------------------|-------------------|
| | 25 VOLT. PART No. | 50 VOLT. PART No. | CAP. (μF) | 25 VOLT. PART No. | 50 VOLT. PART No. |
| 0.001 | → | 1-161-039-00 | 0.018 | 1-161-016-00 | 1-161-054-00 |
| 0.0012 | → | 1-161-040-00 | 0.022 | 1-161-017-00 | 1-161-055-00 |
| 0.0015 | → | 1-161-041-00 | 0.027 | 1-161-018-00 | 1-161-056-00 |
| 0.0018 | → | 1-161-042-00 | 0.033 | 1-161-019-00 | 1-161-057-00 |
| 0.0022 | → | 1-161-043-00 | 0.039 | 1-161-020-00 | 1-161-058-00 |
| 0.0027 | → | 1-161-044-00 | 0.047 | 1-161-021-00 | 1-161-059-00 |
| 0.0033 | → | 1-161-045-00 | 0.056 | → | 1-161-060-00 |
| 0.0039 | → | 1-161-046-00 | 0.068 | → | 1-161-061-00 |
| 0.0047 | → | 1-161-047-00 | 0.082 | 1-161-024-00 | 1-161-062-00 |
| 0.0056 | → | 1-161-048-00 | 0.1 | 1-161-025-00 | 1-161-063-00 |
| 0.0068 | → | 1-161-049-00 | → | → | → |
| 0.0082 | 1-161-012-00 | 1-161-050-00 | → | → | → |
| 0.01 | 1-161-013-00 | 1-161-051-00 | → | → | → |
| 0.012 | → | 1-161-052-00 | → | → | → |
| 0.015 | 1-161-015-00 | 1-161-053-00 | → | → | → |

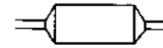
MYLAR CAPACITORS

| CAP. (μF) | RATING | | | | | | | | | | | |
|-----------|-------------------|--------------|--------------|--------------------|--------------|--------------|--------------------|------|--------------|--------------------|--------------|--|
| | 50 VOLT. PART No. | | | 100 VOLT. PART No. | | | 200 VOLT. PART No. | | | CAP. (μF) PART No. | | |
| 0.001 | 1-108-227-00 | 1-108-365-00 | 1-108-409-00 | 0.01 | 1-108-239-00 | 1-108-377-00 | 1-108-421-00 | 0.1 | 1-108-251-00 | 1-108-389-00 | 1-108-433-00 | |
| 0.0012 | 1-108-351-00 | 1-108-366-00 | 1-108-410-00 | 0.012 | 1-108-357-00 | 1-108-378-00 | 1-108-422-00 | 0.12 | 1-108-363-00 | 1-108-390-00 | 1-108-434-00 | |
| 0.0015 | 1-108-228-00 | 1-108-367-00 | 1-108-411-00 | 0.015 | 1-108-240-00 | 1-108-379-00 | 1-108-423-00 | 0.15 | 1-108-252-00 | 1-108-391-00 | 1-108-435-00 | |
| 0.0018 | 1-108-352-00 | 1-108-368-00 | 1-108-412-00 | 0.018 | 1-108-358-00 | 1-108-380-00 | 1-108-424-00 | 0.18 | 1-108-364-00 | 1-108-392-00 | 1-108-436-00 | |
| 0.0022 | 1-108-230-00 | 1-108-369-00 | 1-108-413-00 | 0.022 | 1-108-242-00 | 1-108-381-00 | 1-108-425-00 | 0.22 | 1-108-254-00 | 1-108-393-00 | 1-108-437-00 | |
| 0.0027 | 1-108-353-00 | 1-108-370-00 | 1-108-414-00 | 0.027 | 1-108-359-00 | 1-108-382-00 | 1-108-426-00 | 0.27 | 1-108-854-00 | → | → | |
| 0.0033 | 1-108-232-00 | 1-108-371-00 | 1-108-415-00 | 0.033 | 1-108-244-00 | 1-108-383-00 | 1-108-427-00 | 0.33 | 1-108-855-00 | → | → | |
| 0.0039 | 1-108-354-00 | 1-108-372-00 | 1-108-416-00 | 0.039 | 1-108-360-00 | 1-108-384-00 | 1-108-428-00 | 0.39 | 1-108-856-00 | → | → | |
| 0.0047 | 1-108-234-00 | 1-108-373-00 | 1-108-417-00 | 0.047 | 1-108-246-00 | 1-108-385-00 | 1-108-429-00 | 0.47 | 1-108-857-00 | → | → | |
| 0.0056 | 1-108-355-00 | 1-108-374-00 | 1-108-418-00 | 0.056 | 1-108 11-00 | 1-108-386-00 | 1-108-430-00 | → | → | → | → | |
| 0.0068 | 1-108-237-00 | 1-108-375-00 | 1-108-419-00 | 0.068 | 1-108-249-00 | 1-108-387-00 | 1-108-431-00 | → | → | → | → | |
| 0.0082 | 1-108-356-00 | 1-108-376-00 | 1-108-420-00 | 0.082 | 1-108-362-00 | 1-108-388-00 | 1-108-432-00 | → | → | → | → | |



TANTALUM CAPACITORS

| CAP. (μF) | RATING → Use the high voltage rated one. | | | | | | |
|-----------|--|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 3.15 VOLT. PART No. | 6.3 VOLT. PART No. | 10 VOLT. PART No. | 16 VOLT. PART No. | 20 VOLT. PART No. | 25 VOLT. PART No. | 35 VOLT. PART No. |
| 0.01 | → | → | → | → | → | → | 1-131-396-00 |
| 0.015 | → | → | → | → | → | → | 1-131-397-00 |
| 0.022 | → | → | → | → | → | → | 1-131-398-00 |
| 0.033 | → | → | → | → | → | → | 1-131-399-00 |
| 0.047 | → | → | → | → | → | → | 1-131-400-00 |
| 0.068 | → | → | → | → | → | → | 1-131-401-00 |
| 0.1 | → | → | → | → | → | → | 1-131-402-00 |
| 0.15 | → | → | → | → | → | → | 1-131-403-00 |
| 0.22 | → | → | → | → | → | → | 1-131-404-00 |
| 0.33 | → | → | → | → | → | 1-131-409-00 | 1-131-405-00 |
| 0.47 | → | → | → | → | 1-131-412-00 | → | 1-131-406-00 |
| 0.68 | → | → | → | 1-131-415-00 | → | 1-131-410-00 | 1-131-407-00 |
| 1.0 | → | → | 1-131-418-00 | → | 1-131-413-00 | → | 1-131-408-00 |
| 1.5 | → | 1-131-421-00 | → | 1-131-416-00 | → | 1-131-411-00 | 1-131-348-00 |
| 2.2 | 1-131-424-00 | → | 1-131-419-00 | → | 1-131-414-00 | 1-131-355-00 | 1-131-349-00 |
| 3.3 | → | 1-131-422-00 | → | 1-131-417-00 | 1-131-362-00 | 1-131-356-00 | 1-131-350-00 |
| 4.7 | 1-131-425-00 | → | 1-131-420-00 | 1-131-369-00 | 1-131-363-00 | 1-131-357-00 | 1-131-351-00 |
| 6.8 | → | 1-131-423-00 | 1-131-376-00 | 1-131-370-00 | 1-131-364-00 | 1-131-358-00 | 1-131-352-00 |
| 10 | 1-131-426-00 | 1-131-383-00 | 1-131-377-00 | 1-131-371-00 | 1-131-365-00 | 1-131-359-00 | 1-131-353-00 |
| 15 | 1-131-390-00 | 1-131-384-00 | 1-131-378-00 | 1-131-372-00 | 1-131-366-00 | 1-131-360-00 | → |
| 22 | 1-131-391-00 | 1-131-385-00 | 1-131-379-00 | 1-131-373-00 | 1-131-367-00 | → | → |
| 33 | 1-131-392-00 | 1-131-386-00 | 1-131-380-00 | 1-131-374-00 | → | → | → |
| 47 | 1-131-393-00 | 1-131-387-00 | 1-131-381-00 | → | → | → | → |
| 68 | 1-131-394-00 | 1-131-388-00 | → | → | → | → | → |
| 100 | 1-131-395-00 | → | → | → | → | → | → |



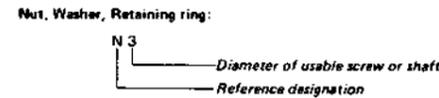
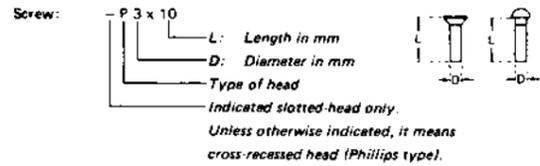
TANTALUM CAPACITORS

| CAP. (μF) | RATING | | | | | |
|-----------|------------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| | 3 VOLT. PART No. | 6.3 VOLT. PART No. | 10 VOLT. PART No. | 16 VOLT. PART No. | 20 VOLT. PART No. | 35 VOLT. PART No. |
| 0.033 | → | → | → | → | → | 1-131-273-00 |
| 0.047 | → | → | → | → | → | 1-131-274-00 |
| 0.068 | → | → | → | → | → | 1-131-275-00 |
| 0.1 | → | → | → | → | → | 1-131-276-00 |
| 0.15 | → | → | → | → | → | 1-131-277-00 |
| 0.22 | → | → | → | → | 1-131-262-00 | 1-131-278-00 |
| 0.33 | → | → | → | → | 1-131-263-00 | 1-131-279-00 |
| 0.47 | → | → | 1-131-169-00 | → | 1-131-264-00 | 1-131-280-00 |
| 0.68 | → | → | → | 1-131-258-00 | 1-131-265-00 | 1-131-281-00 |
| 1.0 | → | → | 1-131-254-00 | → | 1-131-266-00 | 1-131-282-00 |
| 1.5 | → | 1-131-250-00 | → | → | 1-131-267-00 | 1-131-283-00 |
| 2.2 | → | → | → | 1-131-259-00 | 1-131-268-00 | 1-131-284-00 |
| 3.3 | → | → | 1-131-255-00 | → | 1-131-269-00 | → |
| 4.7 | → | 1-131-251-00 | 1-131-171-00 | → | 1-131-270-00 | → |
| 6.8 | → | → | → | 1-131-260-00 | 1-131-271-00 | → |
| 10 | → | → | 1-131-256-00 | → | 1-131-272-00 | → |
| 15 | → | → | → | → | → | → |
| 22 | → | 1-131-252-00 | → | 1-131-261-00 | → | → |
| 33 | | | | | | |

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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