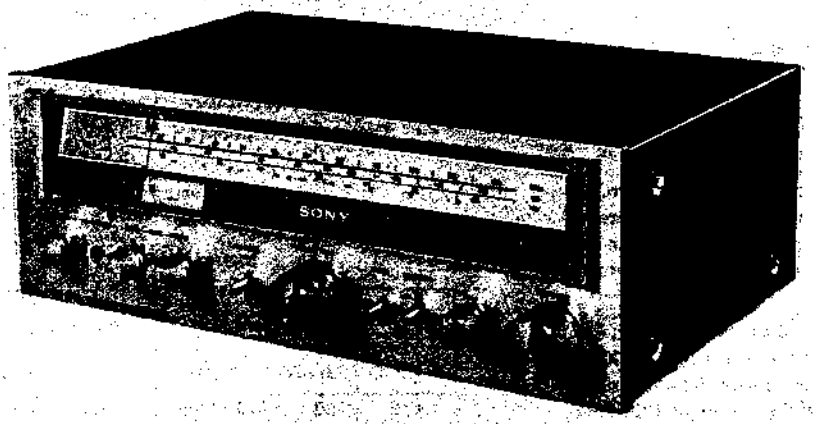
STR-232L

AEP Model
UK Model



FM STEREO/FM-AM RECEIVER

SPECIFICATIONS

GENERAL

Power Requirements: 240 V ac, 50 Hz (UK model)
120 V, 220 V or 240 V ac adjustable, 50 Hz (AEP model)

Power Consumption: 110 W (UK model)
95 W (AEP model)

Dimensions: Approx. 410 (w) x 145 (h) x 305 (d) mm
16 (w) x 5 ¾ (h) x 12 (d) inches
including projecting parts and controls.

Weight: 5.9 kg, 13 lb (net)
Approx. 7.1 kg, 15 lb 11 oz (in shipping carton)

FM SECTION

Tuning Range: 87.5 – 108 MHz

Antenna: 300 Ω balanced
75 Ω unbalanced

Intermediate Frequency: 10.7 MHz

Sensitivity at 50dB Quieting: 4 μV (12 dB) (MONO)
45 μV (33 dB) (STEREO)

Sensitivity at 46dB Quieting: (at 40kHz deviation) 4.5 μV (13 dB) (MONO)
50 μV (34 dB) (STEREO)

Usable Sensitivity: 1.9 μV (5.5 dB), IHF
1.7 μV (4.5 dB), S/N = 26 dB
(40 kHz deviation)

S/N Ratio: 73 dB (MONO)
68 dB (STEREO)

Harmonic Distortion: At 1 kHz
0.3 % (MONO)
0.5 % (STEREO)

IM Distortion: 0.3 % (MONO)
0.5 % (STEREO)

Separation: 45 dB at 1 kHz

Frequency Response: 40 – 12,500 Hz $^{+0.5}_{-1.0}$ dB
30 – 15,000 Hz $^{+0.5}_{-2.0}$ dB

– Continued on page 2 –

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.

SONY®
SERVICE MANUAL

Selectivity: 55 dB (300 kHz, S/N = 26 dB, 40 kHz deviation)
Capture Ratio: 1.0 dB
AM Suppression Ratio: 54 dB
Image Response Ratio: 45 dB
Spurious Response Ratio: 75 dB
Muting Threshold: Approx. 5 μV

MW/LW SECTION

Tuning Range: MW: 530 – 1,605 kHz
LW: 150 – 350 kHz
Antenna: MW: External antenna terminal
Built-in ferrite-rod antenna
LW: External antenna terminal
Built-in ferrite-rod antenna
Intermediate Frequency: 468 kHz
Usable Sensitivity: MW: 250 μV/m (40 dB/m), built-in antenna (1,000 kHz)
LW: 500 μV/m (53.8 dB/m), built-in antenna (230 kHz)
100 μV (40 dB), external antenna (230 kHz)
S/N Ratio: MW: 52 dB at 5 mV
LW: 52 dB at 5 mV
Harmonic Distortion: MW: 0.3 % at 5 mV, 400 Hz
LW: 0.3 % at 5 mV, 400 Hz
Selectivity: 28 dB (9 kHz)

AUDIO AMPLIFIER SECTION

Continuous RMS Power Output: Less than 0.7 % THD, both channels driven simultaneously
At 40 – 20,000 Hz
18 W + 18 W (8 Ω)
At 1 kHz
20 W + 20 W (8 Ω)
According to DIN 45500
20 W + 20 W (8 Ω)

Dynamic Power Output: IHF constant power supply method
56 W at 8 Ω
Power Bandwidth: 10 – 40,000 Hz, IHF
Damping Factor: 20 at 1 kHz (8 Ω)
Harmonic Distortion: Less than 0.7 % at rated output
Less than 0.3 % at 1 W output
IM Distortion: (60Hz : 7kHz = 4 : 1) Less than 0.7 % at rated output
Less than 0.3 % at 1 W output
Residual Noise: Less than 0.08 μW at 8 Ω
Frequency Response: PHONO:
RIAA equalization curve ± 1.0 dB
TAPE:
10 – 50,000 Hz $^{+1\ dB}_{-3\ dB}$

Inputs:

	Sensitivity	Impedance	S/N	Weighting network
PHONO	2.5 mV (–50 dB)	50 kΩ	70 dB	A
TAPE	150 mV (–14.5 dB)	100 kΩ	90 dB	A

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

Outputs: (with rated input)

	Voltage	Impedance
REC OUT	150 mV (–14.5 dB)	10 kΩ

Headphones: Accepts all low or high impedance headphones.
Speaker: 8 – 16 Ω speakers are suitable.
Tone Controls: BASS: ±8 dB at 100 Hz
TREBLE: ±8 dB at 10 kHz
Loudness Control: (att. 30dB) +8 dB at 100 Hz
+3 dB at 10 kHz

0 dB = 0.775 V

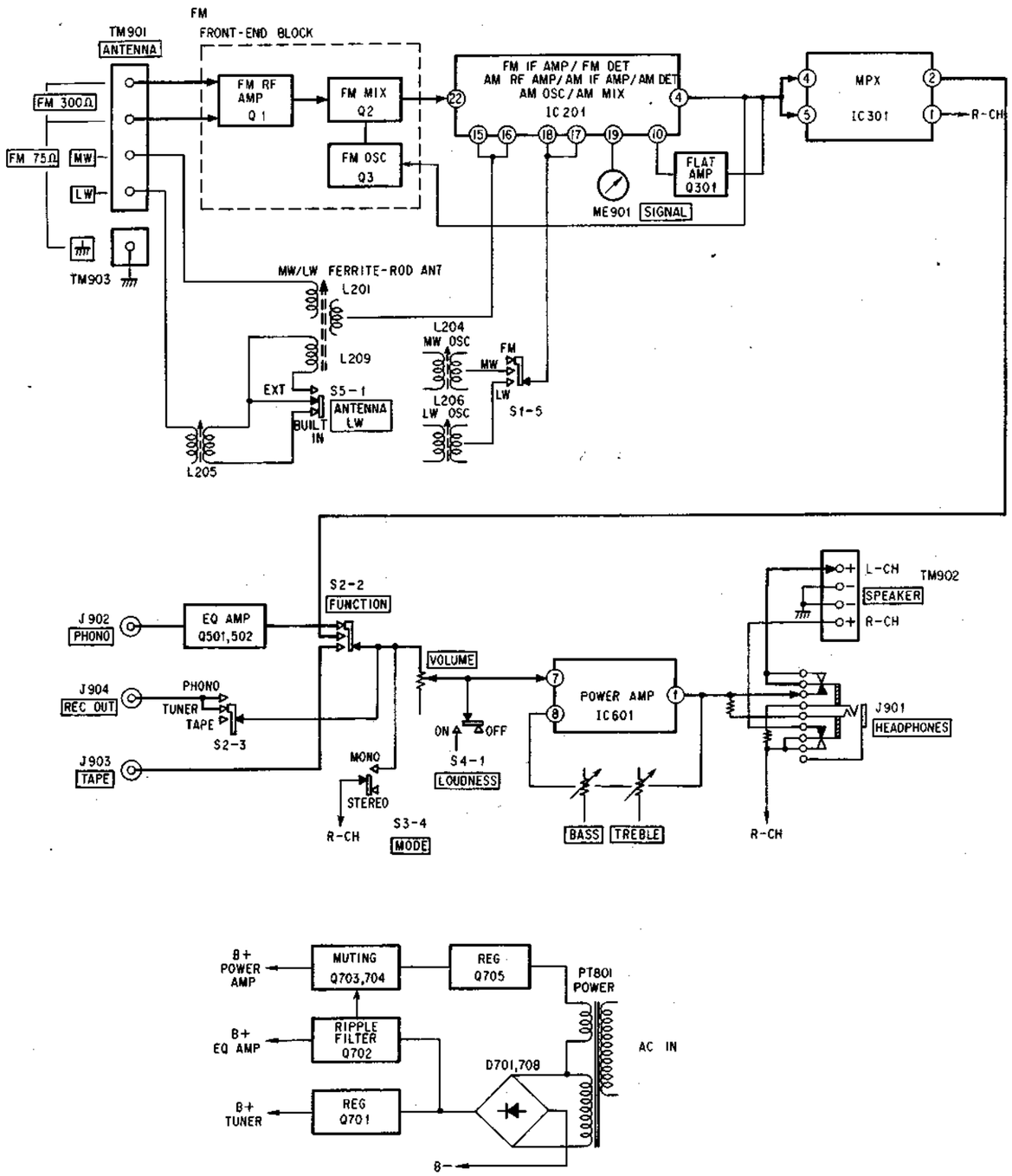
• MODEL IDENTIFICATION

– Voltage Selector –

Only in AEP models, the voltage selectors are installed.

SECTION 1
OUTLINE

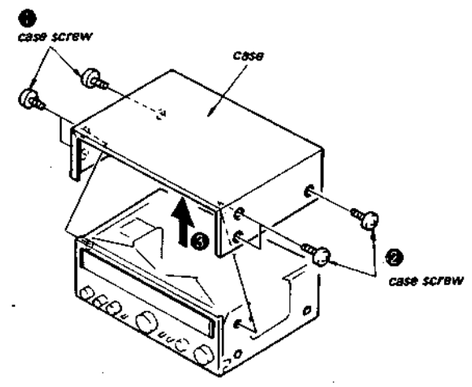
1-1. BLOCK DIAGRAM



SECTION 2
DISASSEMBLY

- Follow the disassembly procedure in the numerical order given.

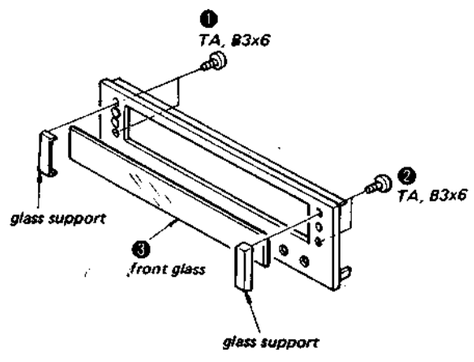
CASE REMOVAL



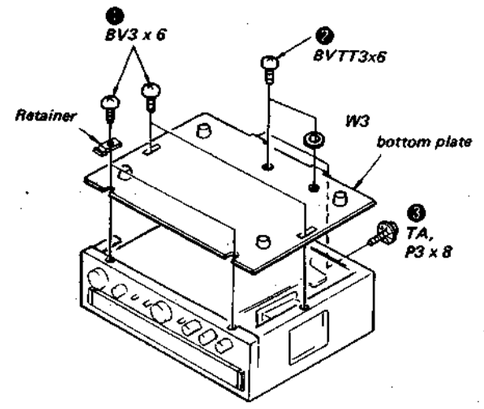
DIAL CORD STRINGING

• See page 7.

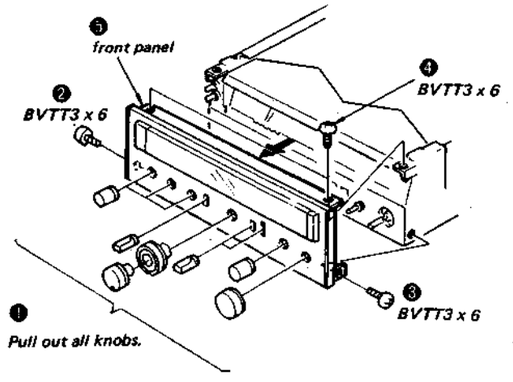
FRONT GLASS REMOVAL



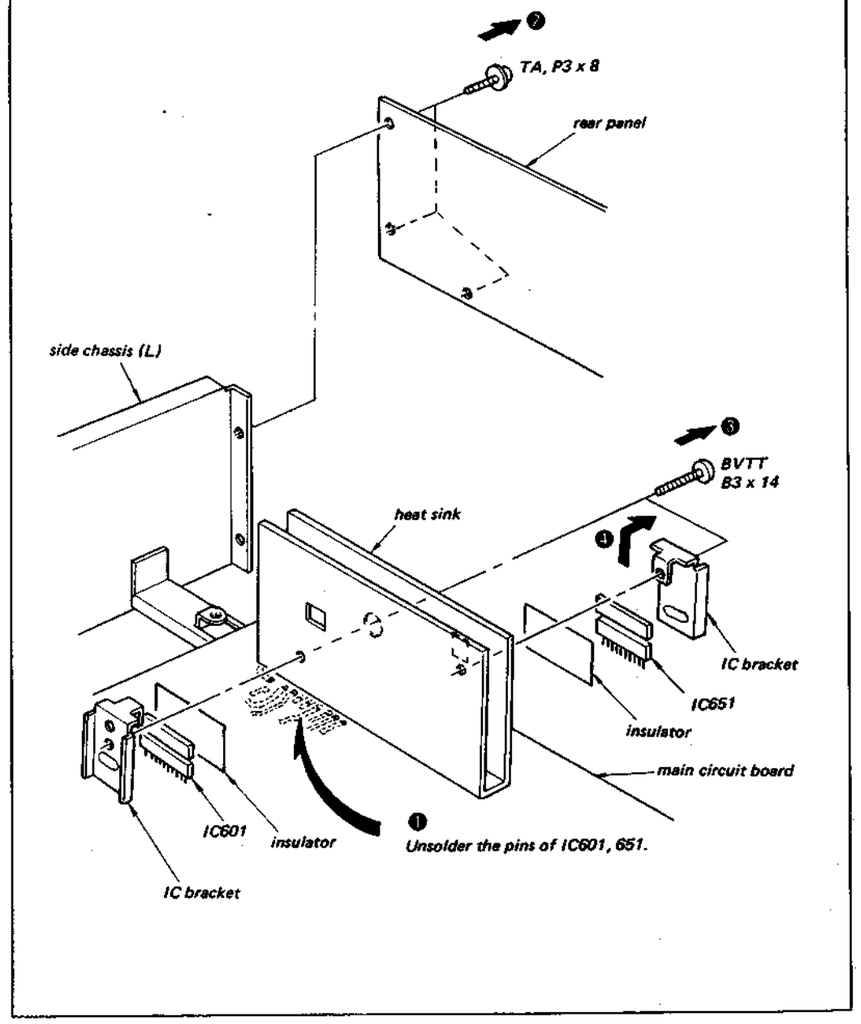
BOTTOM PLATE REMOVAL



FRONT PANEL REMOVAL

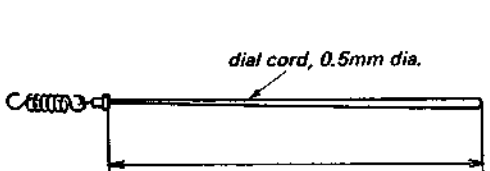


IC REPLACEMENT



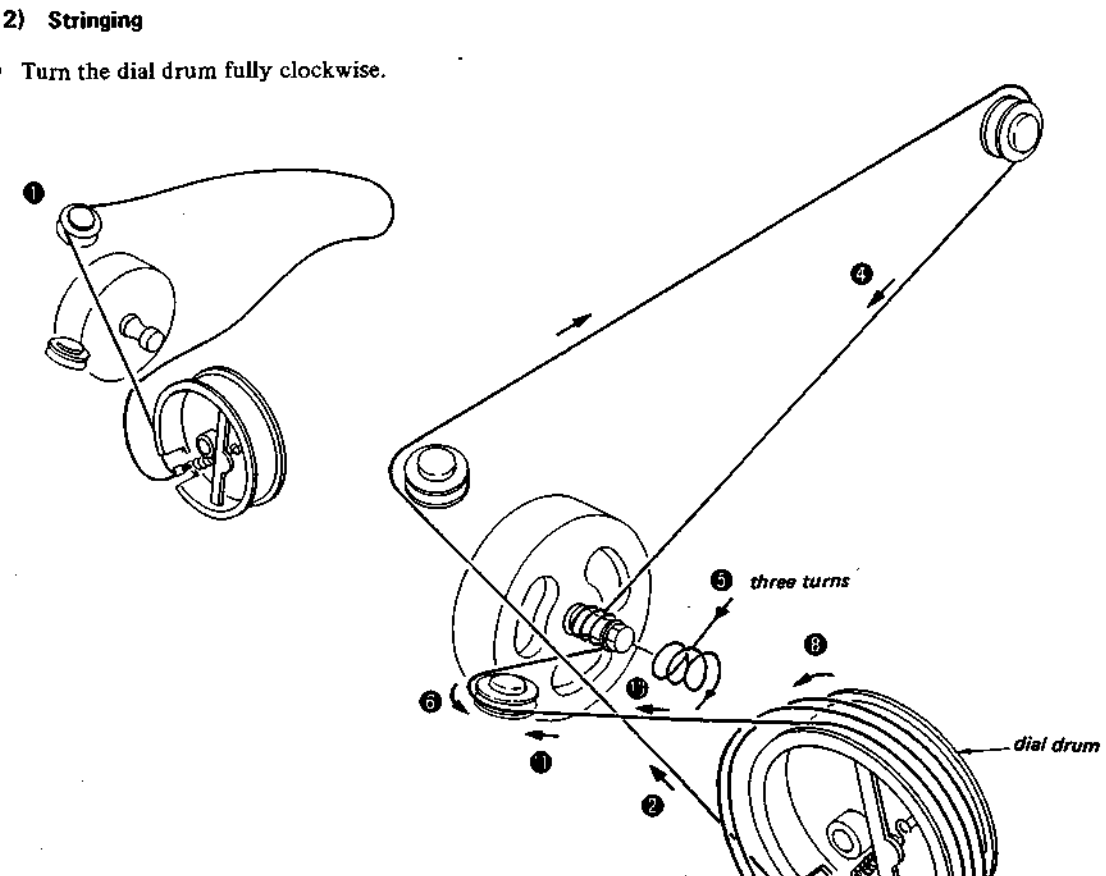
DIAL CORD STRINGING

1) Preparation



2) Stringing

- Turn the dial drum fully clockwise.



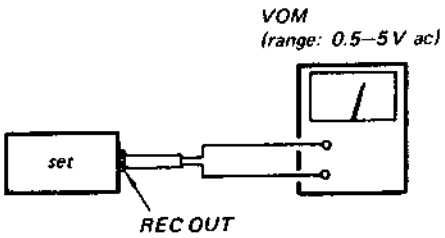
3) Dial Pointer Installation

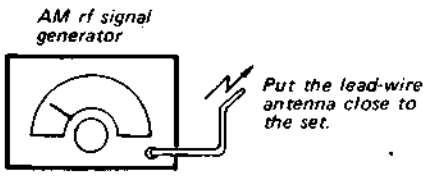
1. Tune the receiver to the off-the-air signal.
2. Set the dial pointer to the frequency of the dial scale and install it.

SECTION 3
ADJUSTMENTS

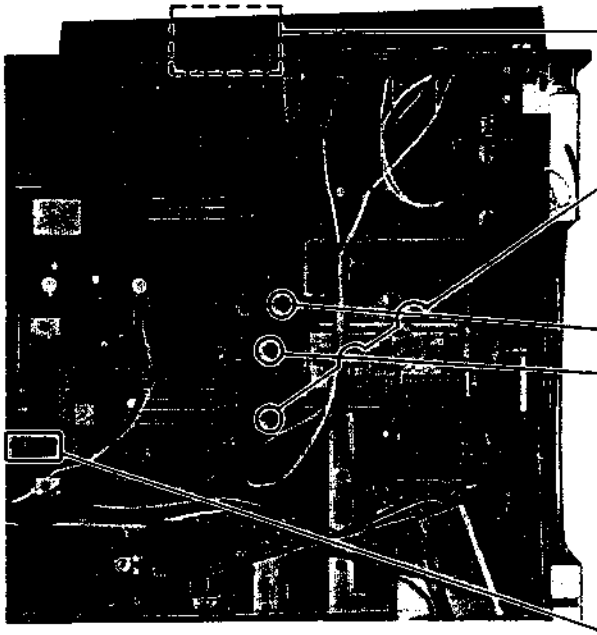
3-1. MW SECTION

Setting: FUNCTION Selector: TUNER
Band Selector: MW
MODE Selector: STEREO/FM-AM MUTE





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



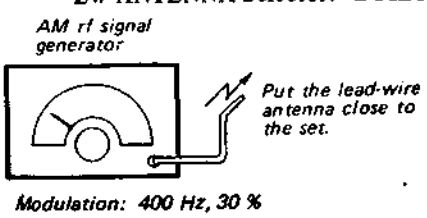
MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM.	
L201	600 kHz
CT203	1400 kHz

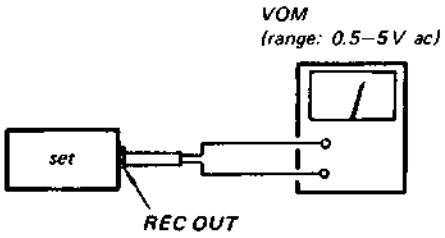
MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM.	
CT201	1680 kHz
L204	520 kHz

AM IF ALIGNMENT
Adjust for a maximum reading on VOM.
CFT201

3-2. LW SECTION

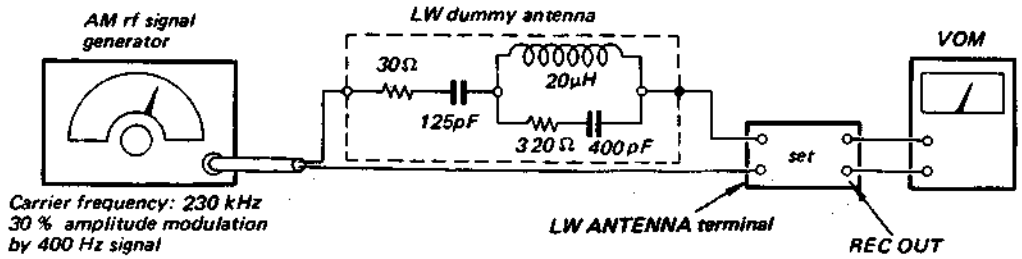
Setting: FUNCTION Selector: TUNER
Band Selector: LW
MODE Selector: STEREO/FM-AM MUTE
LW ANTENNA Selector: BUILT IN



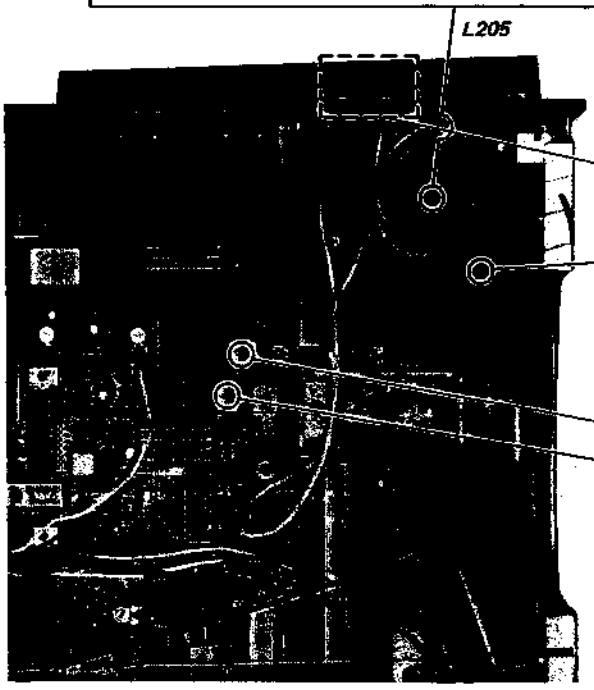


- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

LW EXT ANTENNA COIL ADJUSTMENT



1. Set the ANTENNA LW switch to EXT position.
2. Tune the set to 230 kHz and adjust L205 for a maximum reading on VOM.

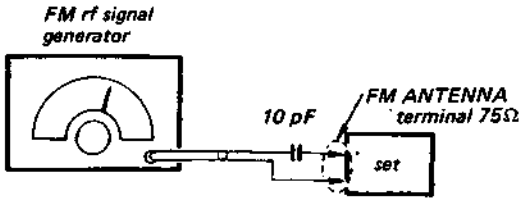


LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM.	
L209	170 kHz
CT204	310 kHz

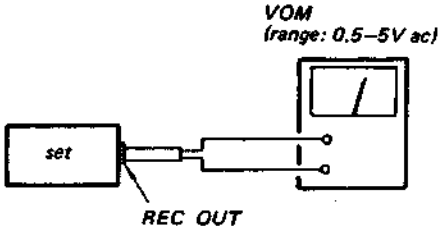
LW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM.	
CT202	365 kHz
L206	145 kHz

3-3. FM SECTION

Setting: FUNCTION Selector: TUNER
Band Selector: FM
MODE Selector: STEREO/FM-AM MUTE



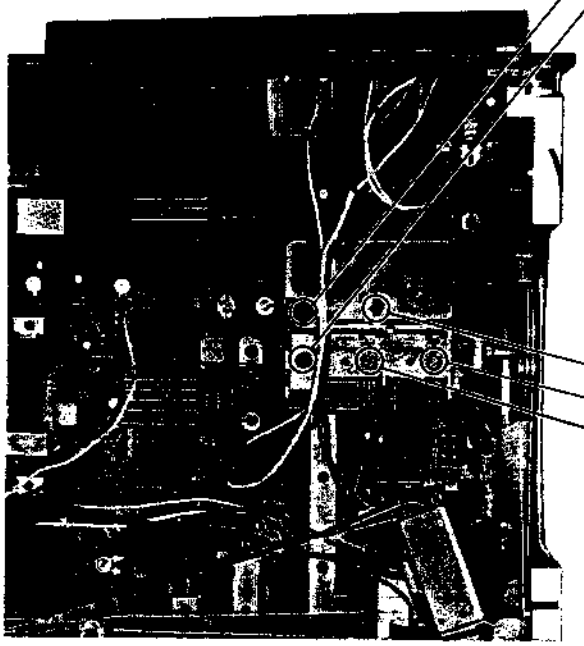
Modulation: 400 Hz, 40 kHz deviation (100 %)



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

FM FREQUENCYC COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM.	
L3	87.1 MHz (87.5 MHz)
CT3	108.5 MHz (108 MHz)

( ): in West Germany

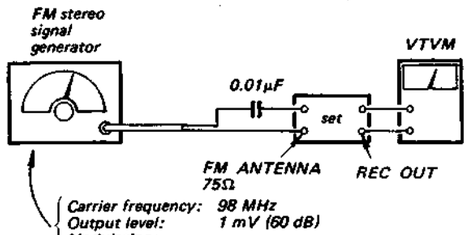


FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM.	
L2	87.1 MHz (87.5 MHz)
CT1	108.5 MHz
CT2	(108 MHz)

( ): in West Germany

FM STEREO SEPARATION ADJUSTMENT

Setting: FUNCTION Selector: TUNER
Band Selector: FM
MODE Selector: STEREO/FM-AM MUTE



Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Modulation:
Audio (400 Hz): 20 kHz deviation (50 %)
Pilot (19 kHz): 6.3 kHz deviation (16 %)
Sub channel (38 kHz): 20 kHz deviation (50 %)

Procedure:

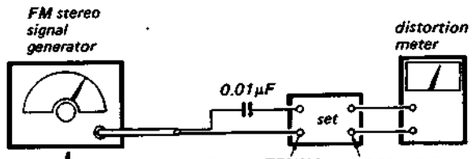
FM stereo signal generator output channel	VTVM connection	VTVM reading
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RT301 resistor for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RT301 resistor for minimum reading.

L-CH Stereo separation: Ⓐ – Ⓑ
R-CH Stereo separation: Ⓒ – Ⓓ

The difference between separations Ⓐ→Ⓑ and Ⓒ→Ⓓ are to be equal.

FM DISCRIMINATOR ALIGNMENT 2

Setting: FUNCTION Selector: TUNER
Band Selector: FM
MODE Selector: MONO



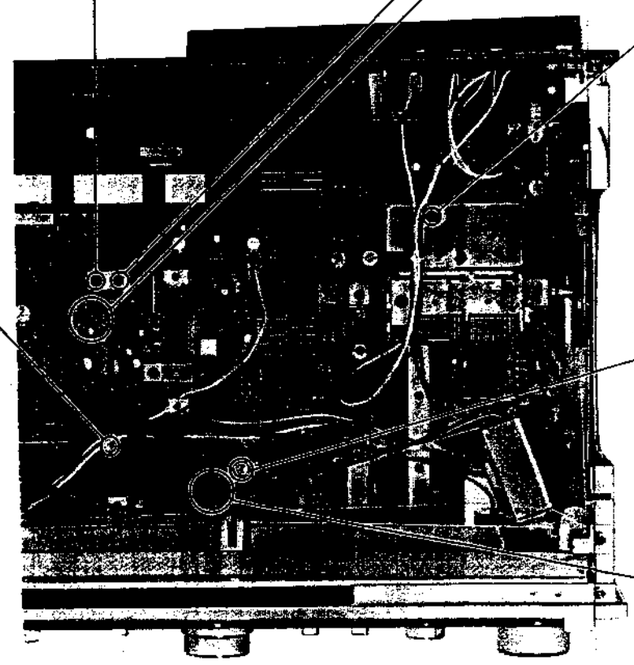
Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Modulation: 400 Hz, 40 kHz deviation (100 %)

Procedure:

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

IFT201 (secondary side: black)

IFT201 (primary side; blue)



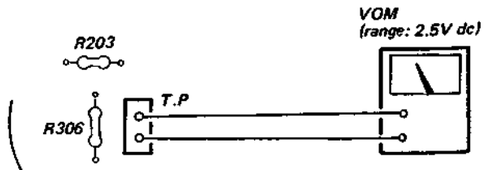
RT301

RT302

IFT1

FM DISCRIMINATOR ALIGNMENT 1

Setting: FUNCTION Selector: TUNER
Band Selector: FM
MODE Selector: MONO
TUNING: Detuned position



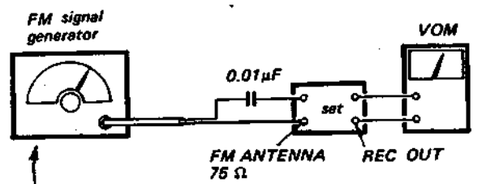
Procedure:

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

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

FM IF ALIGNMENT

Setting: FUNCTION Selector: TUNER
Band Selector: FM
MODE Selector: MONO



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

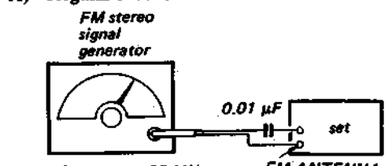
Procedure:

Adjust IFT1 for maximum reading on the VOM.

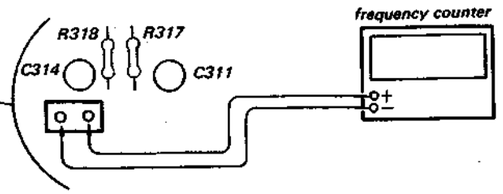
19kHz ADJUSTMENT

Setting: FUNCTION Selector: TUNER
Band Selector: FM
MODE Selector: STEREO/FM-AM MUTE

A) Regular Method



Carrier frequency: 98 MHz
Output level: 1 mV
Modulation: no modulation



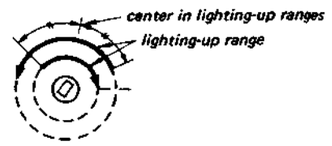
Procedure:

Adjust RT302 for 76 kHz ±100 Hz on the frequency counter.

B) Simple Method

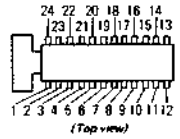
Procedure:

1. Turn the set to the FM stereo broadcasting signal.
2. Turn RT302 clockwise or counterclockwise and memorize the lighting-up range of STEREO lamp.
3. Secure RT302 at the center in lighting-up range of both turns as shown below.

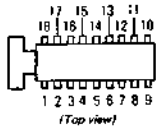


- **Replacement Semiconductors**
  For replacement, use semiconductors except in ( ).

IC201: CX168

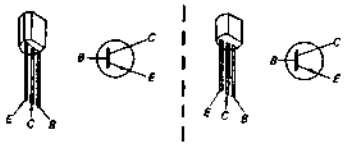


IC301: CX178

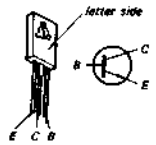


IC601, 651: HA1350S

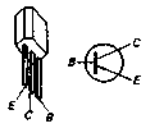
Q301, 702, 703 : 2SC1364
Q501, 502 : 2SC1362 } (2SC1815)
Q551, 552



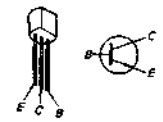
Q701: 2SD809



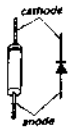
Q704: 2SA1027R (2SA844)



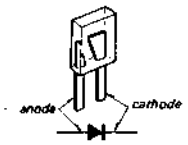
Q705: 2SC1475 (2SD789)



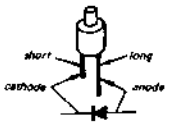
D201, 301, 302, 308, 309
D704, 706, 707, 709, 710 } : 1S1555
D703 : 10E2



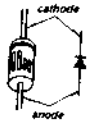
D303 : GL9PR21 (GL9PR)



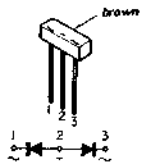
D304, 305, 306 : GL2PR1 (GL2PR)



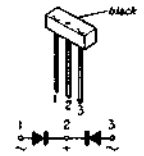
D307: EQB01-11Z (EQA01-11R)
D702: EQB01-16 (EQA01-16R)
D705: EQB01-26 (EQA01-26R)



D701: S3VC40R (S2VC20R)



D708: S3VC40 (S2VC20)

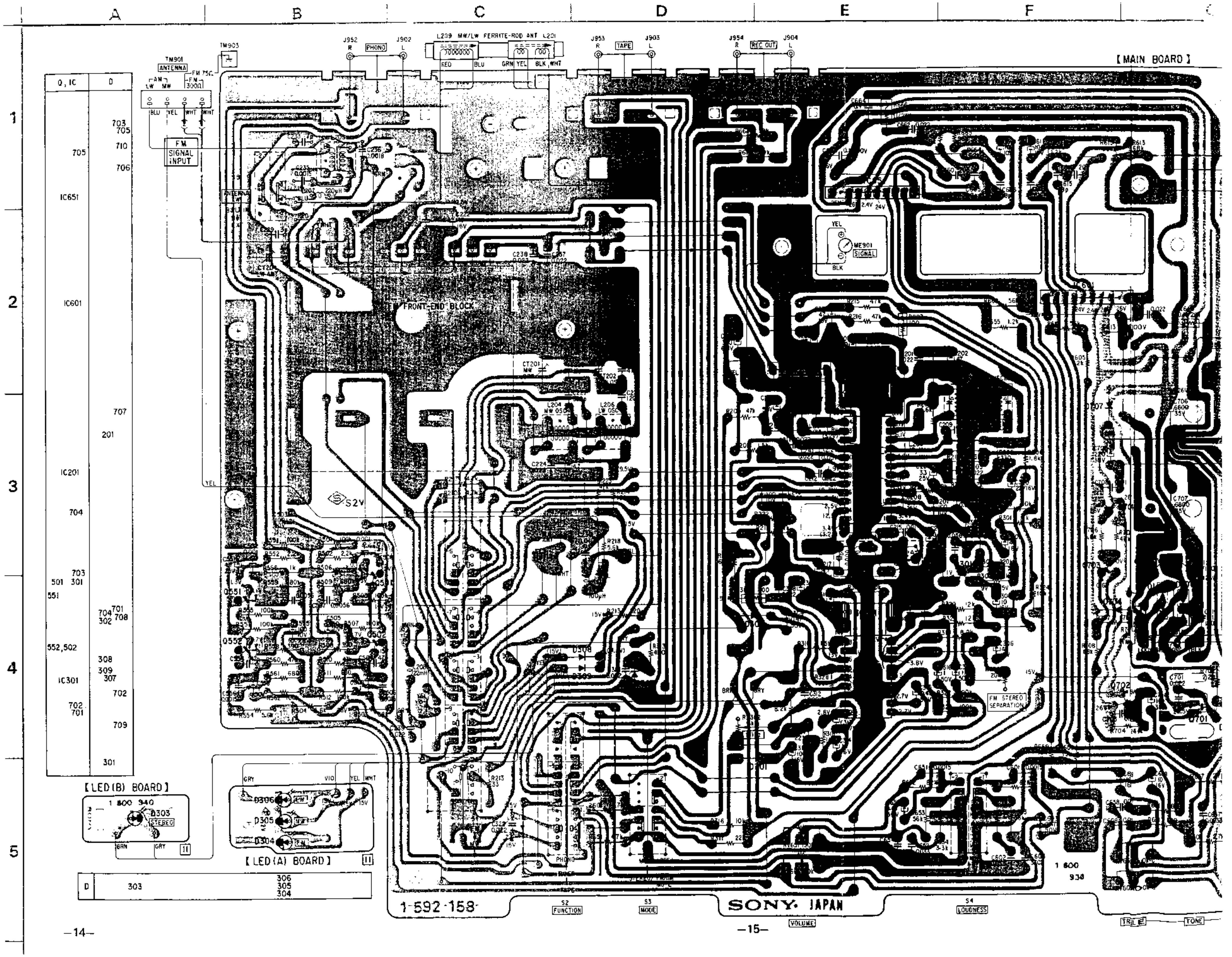


SECTION 4
DIAGRAMS

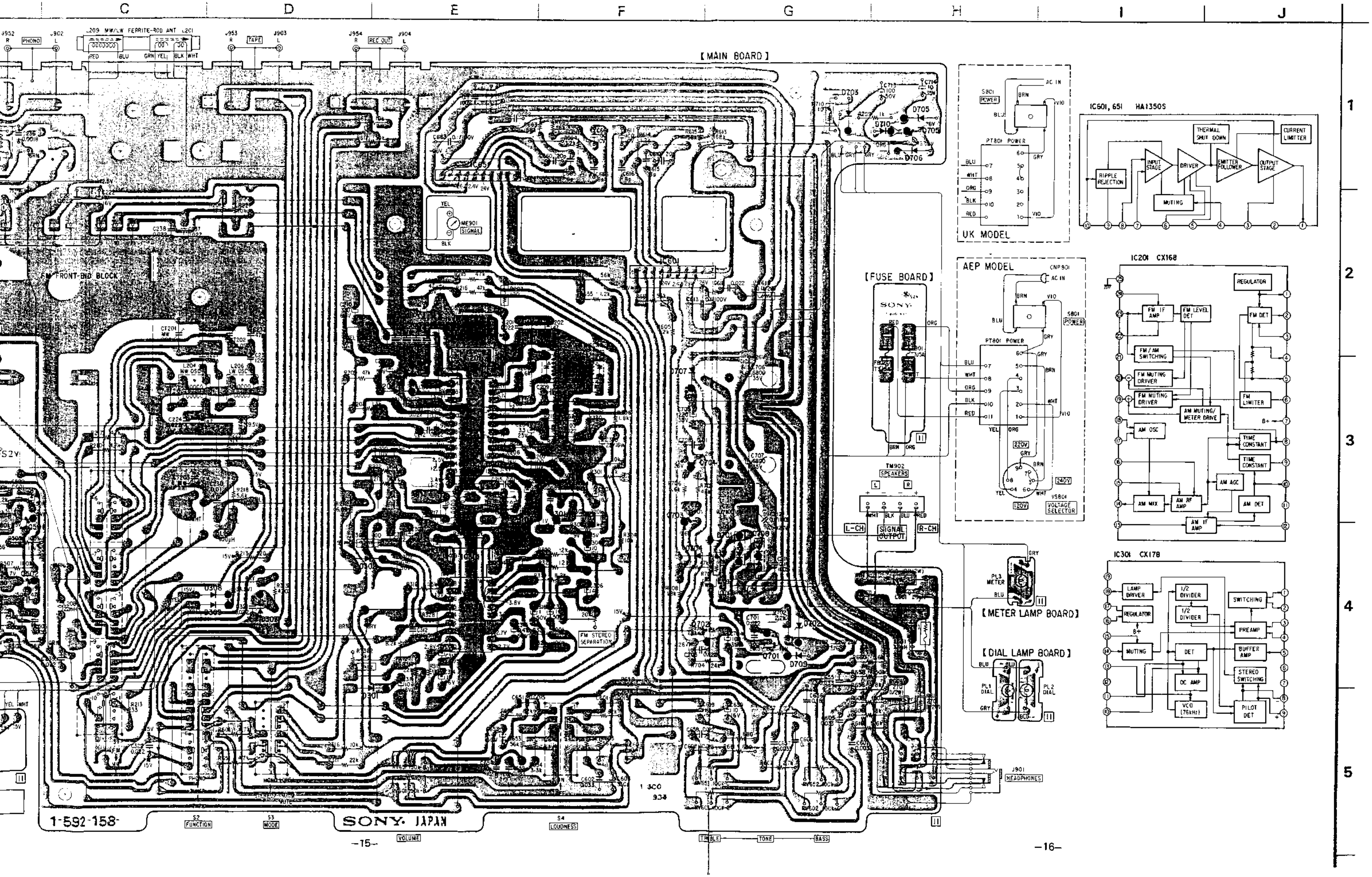
4-1. MOUNTING DIAGRAM
– Conductor Side –

Note:
- [ ]→ : indicates side identified with part number.
- Color code of sleeving over the end of the jacket.
- ▨ : B+ pattern
- ▨ : B– pattern
- Signal Path
  - ——→: L-CH
  - —·—→: R-CH
- Readings are taken under no-signal conditions with a VOM (20 kΩ/V).
  ( ) : AM

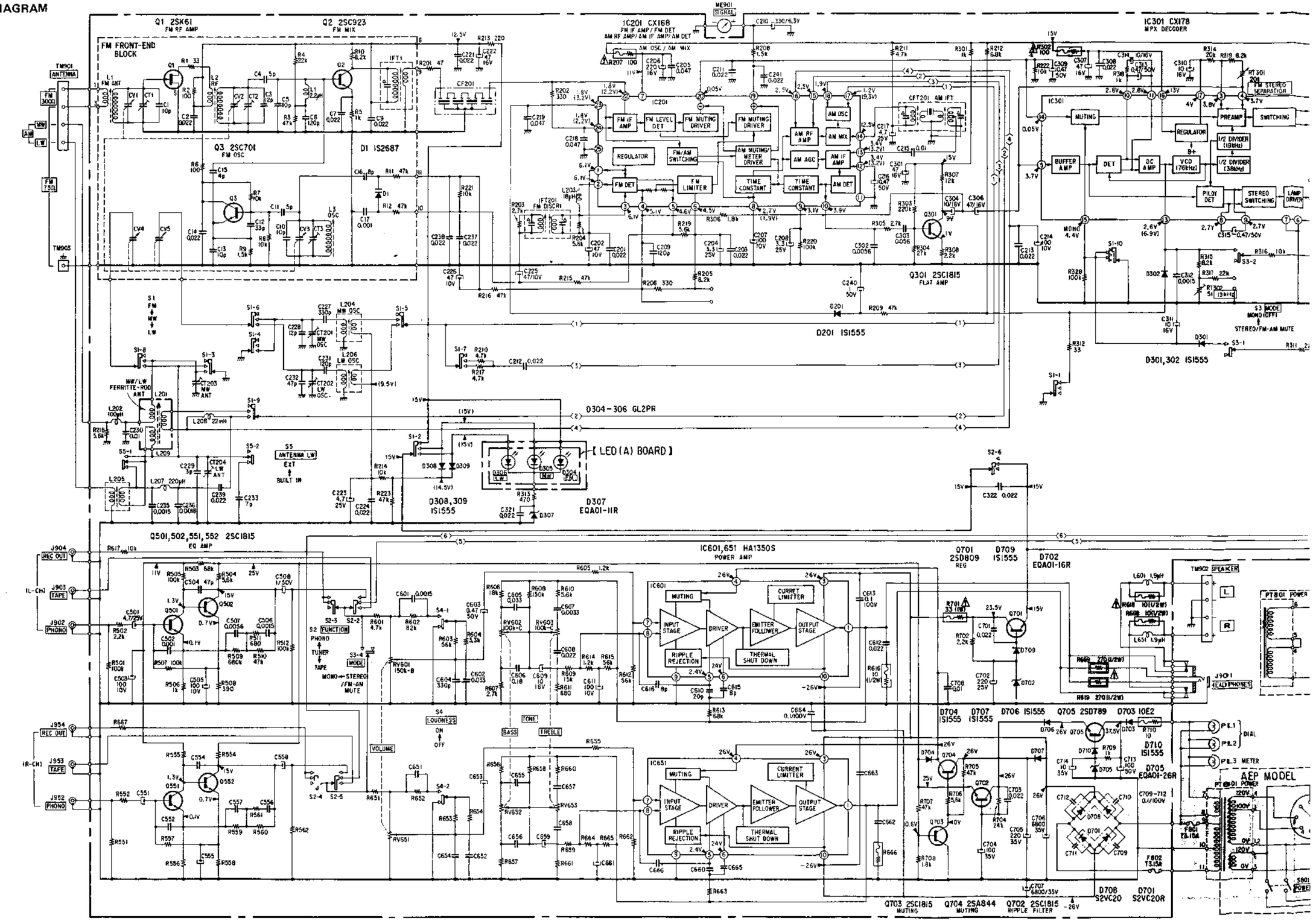
Q, IC	D
	703 705
705	710
	706
IC651	
IC601	
	707
	201
IC201	
704	
703 501 301 551	
	704 701 708 302
552,502	308
IC301	309 307
702 701	702
	709
	301

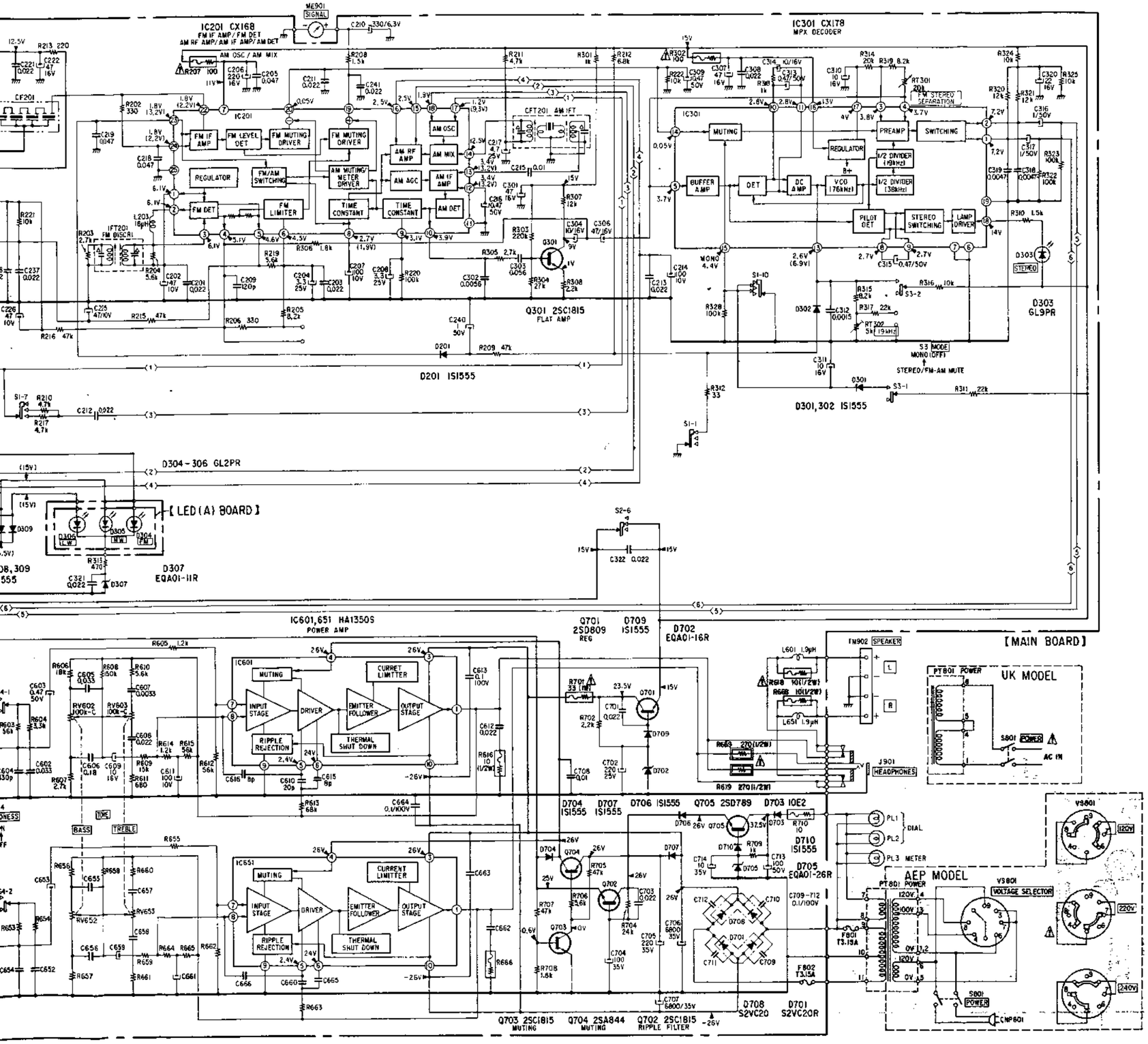


D	303	306 305 304


[MAIN BOARD]
[FUSE BOARD]
UK MODEL
AEP MODEL
IC601, 651 HA1350S
RIPPLE REJECTION
INPUT STAGE
DRIVER
EMITTER FOLLOWER
OUTPUT STAGE
THERMAL SHUT DOWN
CURRENT LIMITTER
MUTING
IC201 CX168
REGULATOR
FM IF AMP
FM LEVEL DET
FM DET
FM/AM SWITCHING
FM MUTING DRIVER
AM MUTING/ METER DRIVE
FM LIMITER
AM OSC
TIME CONSTANT
AM AGC
AM MIX
AM RF AMP
AM DET
AM IF AMP
IC301 CX178
LAMP DRIVER
1/2 DIVIDER
SWITCHING
PREAMP
BUFFER AMP
DET
STEREO SWITCHING
DC AMP
VCO (76kHz)
PILOT DET
[METER LAMP BOARD]
[DIAL LAMP BOARD]
TM902 SPEAKERS
L-CH
R-CH
SIGNAL OUTPUT
FM FRONT-END BLOCK
FM STEREO SEPARATION
J901 HEADPHONES
S801 POWER
PT801 POWER
VOLTAGE SELECTOR
1-592-158-
SONY JAPAN
S2 FUNCTION
S3 MODE
VOLUME
S4 LOUDNESS
TREBLE
TONE
BASS
PHONO
TAPE
REC OUT

4-2. SCHEMATIC DIAGRAM





Note:

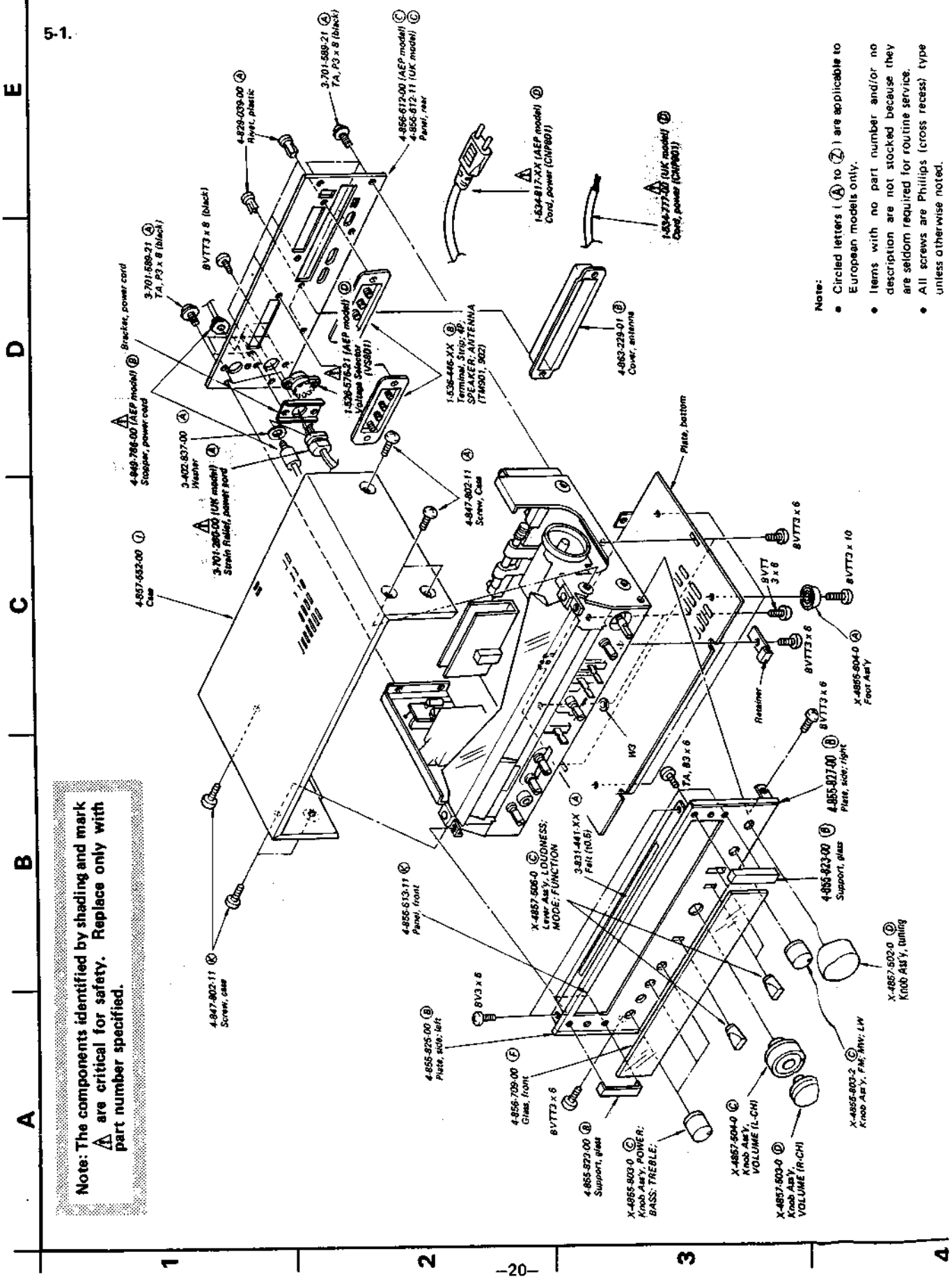
- All capacitors are in μF unless otherwise noted. pF = μμF 50WV or less are not indicated except for electrolytics and tantalum.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ = 1000Ω, MΩ = 1000kΩ
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.
- : B+ bus.
- : B− bus.
- : adjustment for repair.
- Readings are taken under no-signal conditions with a VOM (20kΩ/V).
  ( ) : AM
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S1	Band Selector	FM
S2	FUNCTION	TUNER
S3	MODE	STEREO/FM-AM MUTE
S4	LOUDNESS	OFF
S5	ANTENNA LW	BUILT IN
S801	POWER	OFF

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

SECTION 5
EXPLODED VIEWS

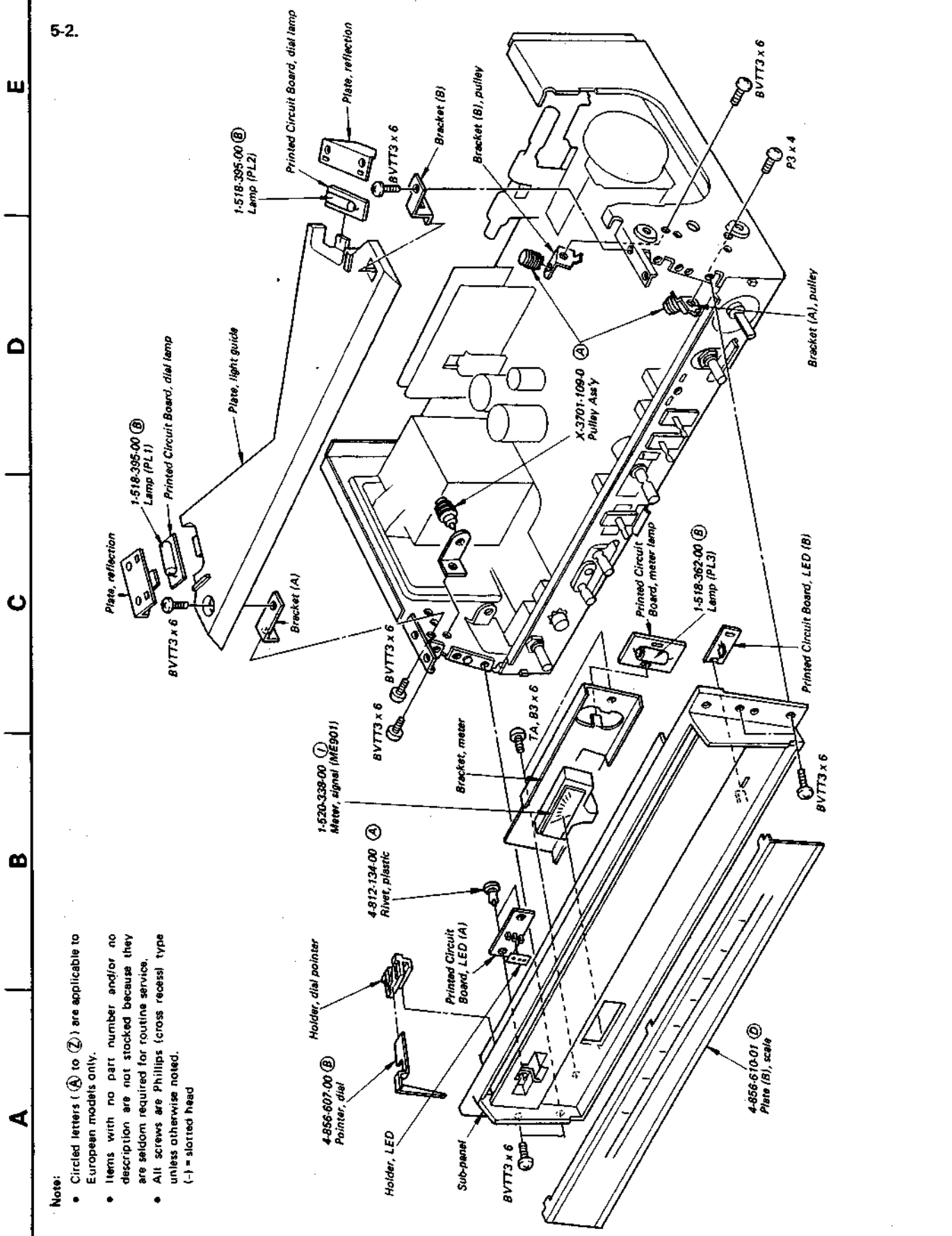
5-1.



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

Note:
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.

5-2.



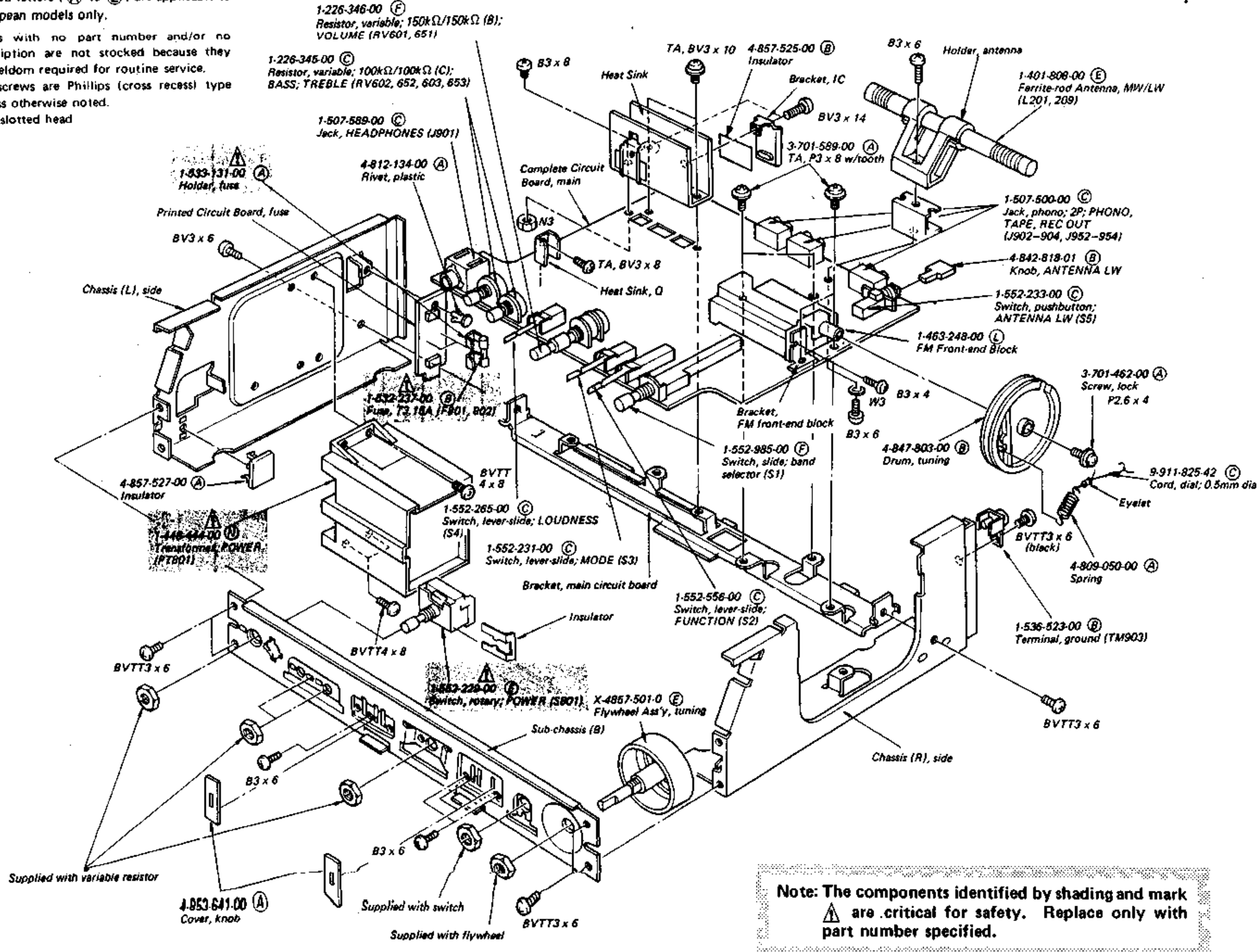
Note:

- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (-) = slotted head

5-3.

Note:

- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (-) = slotted head



1-226-346-00 Ⓕ Resistor, variable; 150kΩ/150kΩ (B); VOLUME (RV601, 651)
1-226-345-00 Ⓒ Resistor, variable; 100kΩ/100kΩ (C); BASS; TREBLE (RV602, 652, 603, 653)
1-507-589-00 Ⓒ Jack, HEADPHONES (J901)
4-812-134-00 Ⓐ Rivet, plastic
1-533-131-00 Ⓐ Holder, fuse
Printed Circuit Board, fuse
BV3 x 6
Chassis (L), side
1-532-237-00 Ⓑ Fuse, T3.15A (F801, 802)
4-857-527-00 Ⓐ Insulator
1-448-444-00 Ⓝ Transformer, POWER (PT801)
B3 x 8
Heat Sink
Complete Circuit Board, main
N3
TA, BV3 x 8
Heat Sink, Q
TA, BV3 x 10
4-857-525-00 Ⓑ Insulator
Bracket, IC
BV3 x 14
3-701-589-00 Ⓐ TA, P3 x 8 w/tooth
B3 x 6
Holder, antenna
1-401-808-00 Ⓔ Ferrite-rod Antenna, MW/LW (L201, 209)
1-507-500-00 Ⓒ Jack, phono; 2P; PHONO, TAPE, REC OUT (J902–904, J952–954)
4-842-818-01 Ⓑ Knob, ANTENNA LW
1-552-233-00 Ⓒ Switch, pushbutton; ANTENNA LW (S5)
1-463-248-00 Ⓛ FM Front-end Block
B3 x 4
W3
B3 x 6
Bracket, FM front-end block
1-552-985-00 Ⓕ Switch, slide; band selector (S1)
4-847-803-00 Ⓑ Drum, tuning
3-701-462-00 Ⓐ Screw, lock P2.6 x 4
9-911-825-42 Ⓒ Cord, dial; 0.5mm dia
Eyelet
BVTT3 x 6 (black)
4-809-050-00 Ⓐ Spring
BVTT 4 x 8
1-552-265-00 Ⓒ Switch, lever-slide; LOUDNESS (S4)
1-552-231-00 Ⓒ Switch, lever-slide; MODE (S3)
Bracket, main circuit board
1-552-556-00 Ⓒ Switch, lever-slide; FUNCTION (S2)
1-536-523-00 Ⓑ Terminal, ground (TM903)
Insulator
BVTT4 x 8
BVTT3 x 6
1-552-229-00 Ⓔ Switch, rotary; POWER (S801)
X-4857-501-0 Ⓔ Flywheel Ass'y, tuning
Sub-chassis (B)
Chassis (R), side
BVTT3 x 6
B3 x 6
B3 x 6
Supplied with variable resistor
4-953-641-00 Ⓐ Cover, knob
Supplied with switch
Supplied with flywheel
BVTT3 x 6

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

SECTION 6
ELECTRICAL PARTS LIST

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	*Part No.*	*Description*
		SEMICONDUCTORS
		Transistors
Q1–3		included in front-end
⇒ Q301	8-729-663-47	Ⓒ 2SC1364
⇒ Q501, 502 ⇒ Q551, 552	8-729-665-47	Ⓑ 2SC1362
Q701	8-729-180-93	Ⓑ 2SD809
⇒ Q702, 703	8-729-663-47	Ⓒ 2SC1364
⇒ Q704	8-729-612-77	Ⓑ 2SA1027R
⇒ Q705	8-760-413-10	Ⓑ 2SC1475
		ICs
IC201	8-751-680-01	Ⓘ CX168
IC301	8-751-780-00	Ⓖ CX178
IC601, 651	8-759-313-50	Ⓖ HA1350S
		Diodes
D1		included in front-end
D201	8-719-815-55	Ⓑ 1S1555
D301, 302	8-719-815-55	Ⓑ 1S1555
⇒ D303	8-719-909-21	Ⓑ GL9PR21
⇒ D304–306	8-719-921-00	Ⓑ GL2PR1
⇒ D307	8-719-930-11	Ⓑ EQB01-11Z
D308, 309	8-719-815-55	Ⓑ 1S1555
⇒ D701	8-719-501-34	Ⓒ S3VC40R
⇒ D702	8-719-931-16	Ⓑ EQB01-16
D703	8-719-200-02	Ⓑ 10E2
D704	8-719-815-55	Ⓑ 1S1555
⇒ D705	8-719-931-26	Ⓑ EQB01-26
D706, 707	8-719-815-55	Ⓑ 1S1555
⇒ D708	8-719-500-34	Ⓒ S3VC40
D709, 710	8-719-815-55	Ⓑ 1S1555

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

Ref. No.	*Part No.*	*Description*
		COILS
L201, 209	1-401-808-00	Ⓔ Antenna, MW/LW ferrite-rod
L202	1-407-169-XX	Ⓐ 100μH, microinductor
L203	1-407-741-00	Ⓑ 18μH, microinductor
L204	1-405-797-00	Ⓑ MW OSC
L205	1-401-709-00	Ⓒ LW ANT
L206	1-405-813-00	Ⓑ LW OSC
L207	1-407-173-XX	Ⓐ 220μH, microinductor
L208	1-407-210-XX	Ⓐ 22mH, microinductor
		TRANSFORMERS
CF201	1-527-534-XX	Ⓓ Filter
CFT201	1-404-087-11	Ⓓ AM IFT
IFT201	1-404-011-00	Ⓒ FM Discriminator
⚠PT801	⚠1-446-444-00	Ⓝ Power
		CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted.
50WV or less are not indicated except for electrolytics.
p : μμF, elect : electrolytic

C201	1-101-005-00	Ⓐ 0.022		
C202	1-123-306-00	Ⓑ 47	10V	elect
C203	1-101-005-00	Ⓐ 0.022		
C204	1-121-392-00	Ⓐ 3.3	25V	elect
C205	1-101-006-00	Ⓐ 0.047		
C206	1-123-068-00	Ⓑ 220	16V	elect
C207	1-123-307-00	Ⓐ 100	10V	elect
C208	1-121-392-00	Ⓐ 3.3	25V	elect
C209	1-102-816-00	Ⓐ 120p		
C210	1-123-297-00	Ⓑ 330	6.3V	elect
C211–213	1-101-005-00	Ⓐ 0.022		
C214	1-123-307-00	Ⓐ 100	10V	elect
C215	1-101-004-00	Ⓐ 0.01		
C216	1-123-351-00	Ⓑ 0.47	50V	elect
C217	1-123-328-00	Ⓑ 4.7	25V	elect
C218, 219	1-101-006-00	Ⓐ 0.047	50V	
C221	1-101-005-00	Ⓐ 0.022	50V	
C222	1-123-319-00	Ⓑ 47	16V	elect

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

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	*Part No.*	*Description*		
C223	1-123-328-00	Ⓑ 4.7	25V	elect
C224	1-101-005-00	Ⓐ 0.022		
C225, 226	1-123-306-00	Ⓑ 47	10V	elect
C227	1-104-065-00	Ⓑ 330p		polystyrol
C228	1-102-262-00	Ⓑ 12p		
C229	1-102-940-00	Ⓐ 3p		
C230	1-108-239-00	Ⓐ 0.01		mylar
C231	1-104-055-00	Ⓑ 120p		polystyol
C232	1-101-880-00	Ⓐ 47p		
C233	1-102-944-00	Ⓐ 7p		
C235	1-108-228-00	Ⓐ 0.0015		mylar
C236	1-108-352-00	Ⓐ 0.0018		mylar
C237–239	1-101-005-00	Ⓐ 0.022		
C240	1-123-352-00	Ⓑ 1	50V	elect
C241	1-101-005-00	Ⓐ 0.022		
C301	1-123-319-00	Ⓑ 47	16V	elect
C302	1-108-355-00	Ⓐ 0.0056		mylar
C303	1-108-361-00	Ⓐ 0.056		mylar
C304	1-123-316-00	Ⓑ 10	16V	elect
C306	1-123-319-00	Ⓑ 47	16V	elect
C307	1-123-319-00	Ⓑ 47	16V	elect
C308	1-101-005-00	Ⓐ 0.022		
C309	1-123-351-00	Ⓑ 0.47	50V	elect
C310, 311	1-123-316-00	Ⓑ 10	16V	elect
C312	1-104-081-00	Ⓑ 0.0015		polystyrol
C313	1-123-351-00	Ⓑ 0.47	50V	elect
C314	1-123-316-00	Ⓑ 10	16V	elect
C315	1-123-351-00	Ⓑ 0.47	50V	elect
C316, 317	1-123-352-00	Ⓑ 1	50V	elect
C318, 319	1-108-234-00	Ⓐ 0.0047		mylar
C320	1-123-317-00	Ⓑ 22	16V	elect
C321, 322	1-101-005-00	Ⓐ 0.022		
C501, 551	1-123-328-00	Ⓑ 4.7	25V	elect
C502, 552	1-108-227-00	Ⓐ 0.001		mylar
C503	1-123-307-00	Ⓐ 100	10V	elect
C504, 554	1-101-880-00	Ⓐ 47p		
C505, 555	1-123-307-00	Ⓐ 100	10V	elect

Ref. No.	*Part No.*	*Description*		
C506, 556	1-108-228-00	Ⓐ 0.0015		mylar
C507, 557	1-108-355-00	Ⓐ 0.0056		mylar
C508, 558	1-123-352-00	Ⓑ 1	50V	elect
C601, 651	1-108-228-00	Ⓐ 0.0015		mylar
C602, 652	1-108-244-00	Ⓑ 0.033		mylar
C603, 653	1-123-351-00	Ⓑ 0.47	50V	elect
C604, 654	1-102-820-00	Ⓐ 330p		
C605, 655	1-108-244-00	Ⓑ 0.033		mylar
C606, 656	1-108-364-00	Ⓐ 0.18		mylar
C607, 657	1-108-232-00	Ⓐ 0.0033		mylar
C608, 658	1-108-242-00	Ⓐ 0.022		mylar
C609, 659	1-123-316-00	Ⓑ 10	16V	elect
C610, 660	1-102-958-00	Ⓐ 20p		
C611, 661	1-123-307-00	Ⓐ 100	10V	elect
C612, 662	1-108-242-00	Ⓐ 0.022		mylar
C613, 663	1-108-389-00	Ⓑ 0.1	100V	mylar
C615, 665 C616, 666	1-102-945-00	Ⓐ 8p		
C664	1-108-389-00	0.1	100V	mylar
C701	1-101-005-00	Ⓐ 0.022		
C702	1-123-334-00	Ⓑ 220	25V	elect
C703	1-101-005-00	Ⓐ 0.022		
C704	1-123-062-00	Ⓑ 100	35V	elect
C705	1-123-063-00	Ⓑ 220	35V	elect
C706, 707	1-125-155-00	Ⓔ 6800	35V	elect
C708	1-108-239-00	Ⓐ 0.01		mylar
C709–712	1-108-389-00	Ⓑ 0.1	100V	mylar
C713	1-123-059-00	Ⓑ 100	50V	elect
C714	1-123-341-00	Ⓑ 10	35V	elect
CT201	1-141-213-00	Ⓑ Trimmer		
CT202	1-141-180-00	Ⓑ Trimmer		
CT203,204	1-141-213-00	Ⓑ Trimmer		

RESISTORS

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

R207, 302	⚠ 1-217-399-00	Ⓑ 100	½W	fusible

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

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	Part No.	Description
R616, 666	1-212-958-00	Ⓐ 10 ½W fusible
R618, 668	⚠1-212-958-00	Ⓐ 10 ½W fusible
R619, 669	⚠1-211-624-00	Ⓑ 270 ¼W carbon (nonflammable)
R701	⚠1-213-072-00	Ⓑ 33 1W fusible
R710	1-212-857-00	Ⓐ 10 ¼W fusible
RT301	1-226-237-00	Ⓑ 20k, adjustable; FM STEREO SEPARATION
RT302	1-226-235-00	Ⓐ 5k, adjustable; 19kHz
RV601,651	1-226-346-00	Ⓔ 150k/150k-B, variable; VOLUME
RV602,652 RV603,653	1-226-345-00	Ⓒ 100k/100k-C, variable; BASS/ TREBLE

SWITCHES

S1	1-552-985-00	Ⓖ Slide, FM/MW/LW
S2	1-552-556-00	Ⓓ Lever-slide, FUNCTION
S3	1-552-231-00	Ⓒ Lever-slide, MODE
S4	1-552-265-00	Ⓒ Lever-slide, LOUDNESS
S5	1-552-233-00	Ⓒ Pushbutton, ANTENNA LW
S801	⚠1-552-229-00	Ⓕ Rotary, POWER

JACKS

J901	1-507-589-00	Ⓒ HEADPHONES
J902–904 J952–954	1-507-500-00	Ⓑ PHONO/TAPE/REC OUT

MISCELLANEOUS

CNP801	⚠1-534-777-00	Ⓓ Cord, power (UK model)
CNP801	⚠1-534-817-XX	Ⓓ Cord, power (AEP model)
F801, 802	⚠1-532-237-00	Ⓑ Fuse, T3.15A
ME901	1-520-338-00	Ⓘ Meter, signal
PL1, 2	1-518-395-00	Ⓑ Lamp
PL3	1-518-362-00	Ⓑ Lamp,
TM901,902	1-536-446-XX	Ⓑ Terminal, ANTENNA/SPEAKER
TM903	1-536-523-00	Ⓑ Terminal, ground
VS801	⚠1-526-576-21	Ⓔ Voltage Selector (AEP model)

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

Ref. No.	Part No.	Description
	1-463-248-00	Ⓛ FM Front-end Block
	⚠1-533-131-00	Ⓐ Holder, fuse

ACCESSORIES AND PACKING MATERIALS

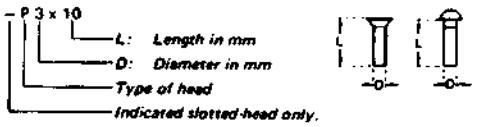
Part No.	Description
1-501-184-00	Ⓒ Antenna, FM ribbon
3-770-945-11	Ⓓ Manual, instruction
4-857-573-00	Ⓒ Cushion, lower; left
4-857-574-00	Ⓒ Cushion, lower; right
4-857-575-00	Ⓔ Cushion, upper
4-864-401-00	Ⓑ Carton
4-891-037-00	Ⓑ Bag, plastic

1/4 WATT CARBON RESISTORS Ⓐ

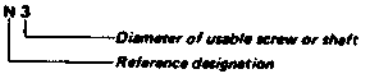
Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	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	1-246-576-00	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	1-246-577-00	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	1-246-578-00	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	1-246-579-00	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	1-246-580-00	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	1-246-581-00	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	1-246-582-00	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	1-246-583-00	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	1-246-584-00	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	1-246-585-00	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	1-246-586-00	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	1-246-587-00	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

Screw:



Nut, Washer, Retaining ring:



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		brazier-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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