

STR-V4L

AEP Model
UK Model



FM STEREO/FM-AM RECEIVER

SPECIFICATIONS

GENERAL

Power Requirements:	120 V, 220 V or 240 V ac adjustable, 50/60 Hz
Power Consumption:	290 W (AEP model) 390 W (UK model)
Dimensions:	Approx. 480 (w) x 145 (h) x 400 (d) mm 18 3/4 (w) x 5 3/4 (h) x 15 3/4 (d) inches including projecting parts and controls
Weight:	Approx. 13.3 kg, 29 lb 5 oz (net) Approx. 15.7 kg, 34 lb 9 oz (in shipping carton)

FM SECTION

Frequency Range:	87.5 — 108 MHz
Antenna:	300 Ω balanced 75 Ω unbalanced
Intermediate Frequency:	10.7 MHz
Sensitivity at 46dB Quieting:	4.5 μ V, 18.3 dBf (MONO) 50 μ V, 39.1 dBf (STEREO)

Usable Sensitivity:	2 μ V, 11.2 dBf; IHF (at 40kHz deviation)	1.6 μ V (4 dB), S/N=26 dB
Limiting Threshold:		1.4 μ V (2.8 dB)
S/N Ratio:	67 dB (MONO) (at 40kHz deviation)	63 dB (STEREO)
Harmonic Distortion:	At 100 Hz (at 40kHz deviation)	0.15 % (MONO) 0.25 % (STEREO)
	At 1 kHz	0.15 % (MONO) 0.25 % (STEREO)
	At 10 kHz	0.2 % (MONO) 0.5 % (STEREO)
IM Distortion:	0.15 % (MONO) (at 40kHz deviation)	0.25 % (STEREO)
Separation:	40 dB at 100 Hz 45 dB at 1 kHz 32 dB at 10 kHz	
Frequency Response:	40 — 12,500 Hz	+0.5 -1.0 dB
	30 — 15,000 Hz	+1.0 -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.

Selectivity: 45 dB (300 kHz)
70 dB (400 kHz)
Capture Ratio: 1.0 dB
AM Suppression Ratio: 55 dB
Image Response Ratio: 45 dB
IF Response Ratio: 95 dB
Spurious Response Ratio: 75 dB
RF Intermodulation: 60 dB
Muting Threshold: Approx. 5 μ V
Sub-carrier Product Ratio: 40 dB

AM (MW/LW) SECTION

Frequency Range: MW: 530 – 1,605 kHz
LW: 150 – 350 kHz
Antenna: Built-in ferrite-rod antenna
External antenna terminal
Intermediate Frequency: 468 kHz
Usable Sensitivity: MW: 200 μ V/m (46 dB/m),
built-in antenna (1,000 kHz)
100 μ V (40 dB),
external antenna (1,000 kHz)
LW: 450 μ V/m (52.8 dB/m),
built-in antenna (250 kHz)
100 μ V (40 dB)
external antenna (250 kHz)
S/N Ratio: 50 dB (50 mV/m)
Harmonic Distortion: 0.5 % (50 mV/m, 400 Hz)
Selectivity: 35 dB (10 kHz)
Image Response Ratio: MW: 40 dB (1,000 kHz)
LW: 75 dB (250 kHz)

AUDIO AMPLIFIER SECTION

Continuous RMS
Power Output: Less than 0.1 % THD, both channels
driven simultaneously
At 20 – 20,000 Hz
50 W + 50 W (8 Ω)
50 W + 50 W (4 Ω)
At 1 kHz
53 W + 53 W (8 Ω)
50 W + 50 W (4 Ω)
According to DIN 45500
50 W + 50 W (8 Ω)

Dynamic Power Output: IHF constant power supply method
150 W (8 Ω)
Power Bandwidth: 10 – 35,000 Hz, IHF
Damping Factor: 40 at 1 kHz (8 Ω)
Harmonic Distortion: Less than 0.1 % at rated output
Less than 0.05 % at 1 W output
IM Distortion: Less than 0.1 % at rated output
(60Hz : 7kHz = 4 : 1)
Less than 0.05 % at 1W output
Residual Noise: Less than 0.3 mV (–70.6 dB) (A-network)
Frequency Response: PHONO:
RIAA equalization curve $\pm$ 0.8 dB
TAPE1, 2):
REC/PB:
5 – 50,000 Hz $\begin{matrix} +0.5 \text{ dB} \\ -2 \text{ dB} \end{matrix}$

Inputs:

	Sensitivity	Impedance	S/N	Weighting network
PHONO	2.5 mV (–50 dB)	50 k Ω	75 dB	A
TAPE 1, 2 REC/PB	150 mV (–14.5 dB)	50 k Ω	100 dB	A

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

Outputs:

(with rated input, FM 30 % modulation, speaker rated output)

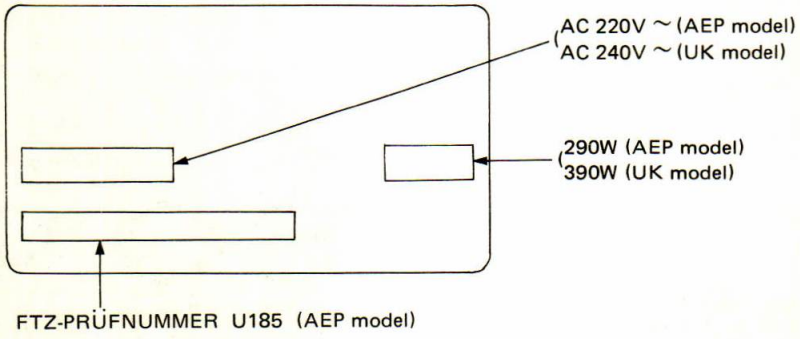
	Voltage	Impedance
REC OUT 1, 2	150 mV (–14.5 dB)	4.7 k Ω
REC/PB	40 mV (–28 dB)	82 k Ω

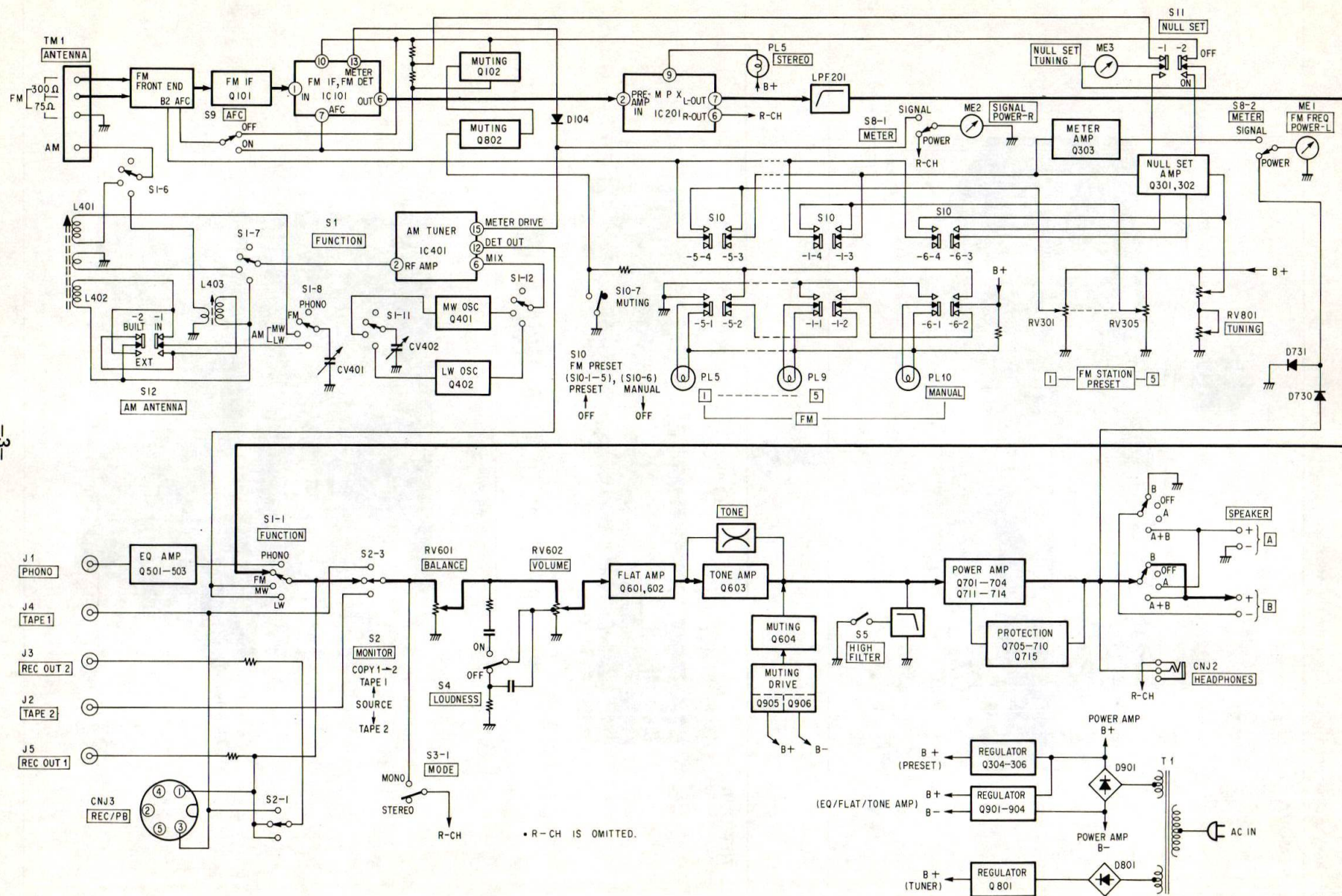
Headphones: Accepts 8 – 10 Ω impedance headphones
Speaker: 4 – 16 Ω speakers are suitable.
Tone Controls: BASS: $\pm$ 10 dB at 100 Hz
TREBLE: $\pm$ 10 dB at 10 kHz
Loudness Control: +10 dB at 50 Hz
(att. 30 dB) +3 dB at 10 kHz
High Filter: 6 dB/oct. above 6 kHz

0dB = 0.775V

MODEL IDENTIFICATION

Specification Label



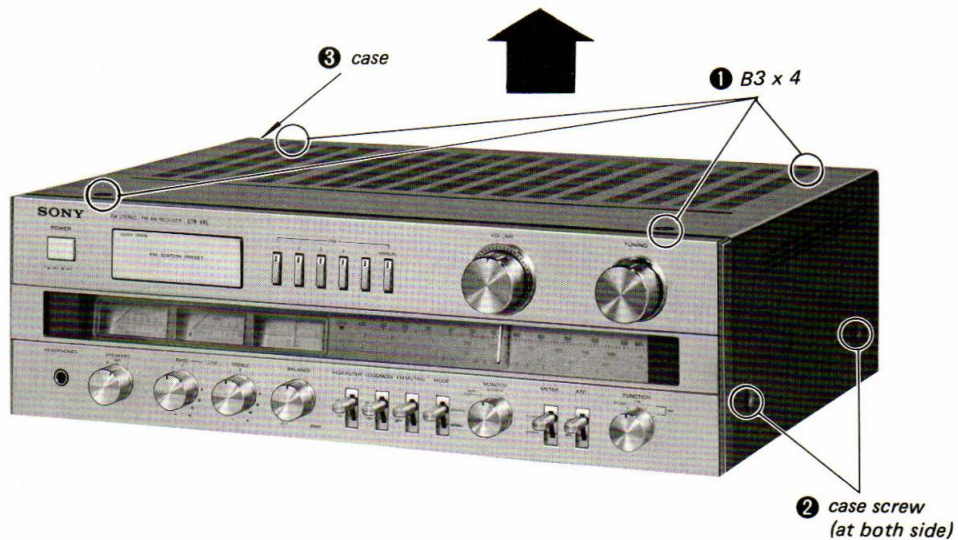
SECTION 1
BLOCK DIAGRAM

STR-V4L

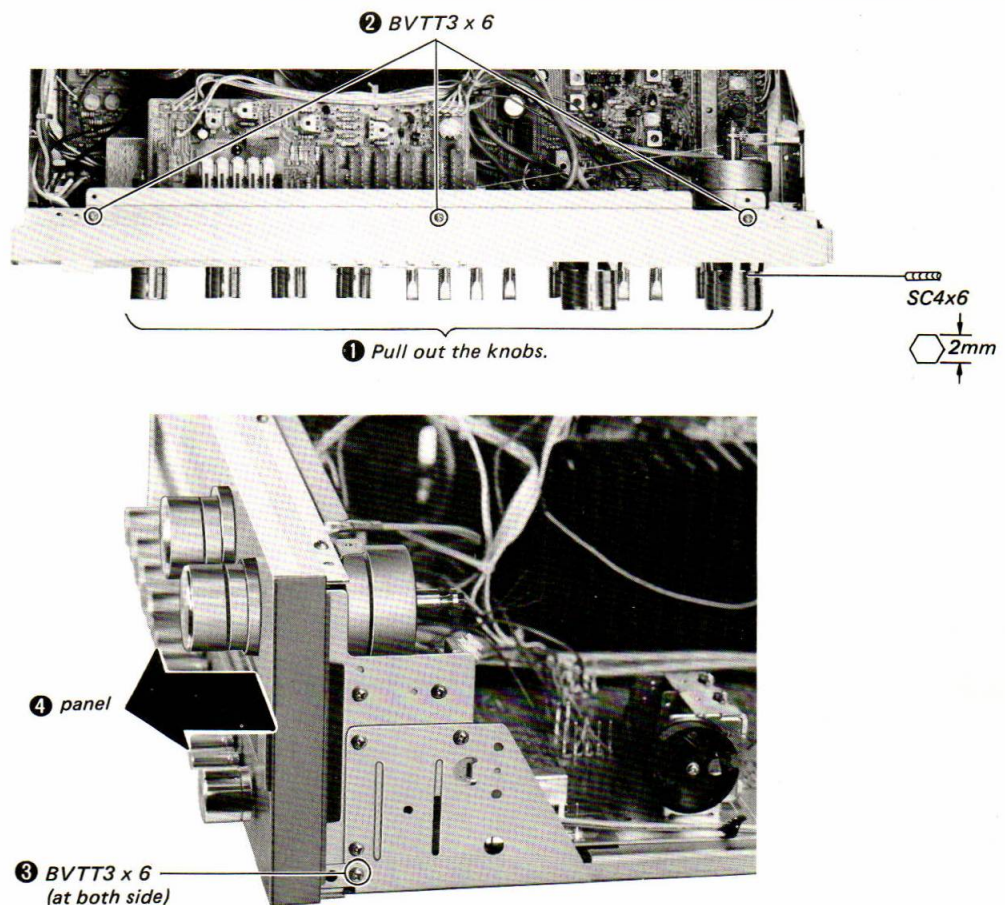
SECTION 2 DISASSEMBLY AND REPLACEMENT

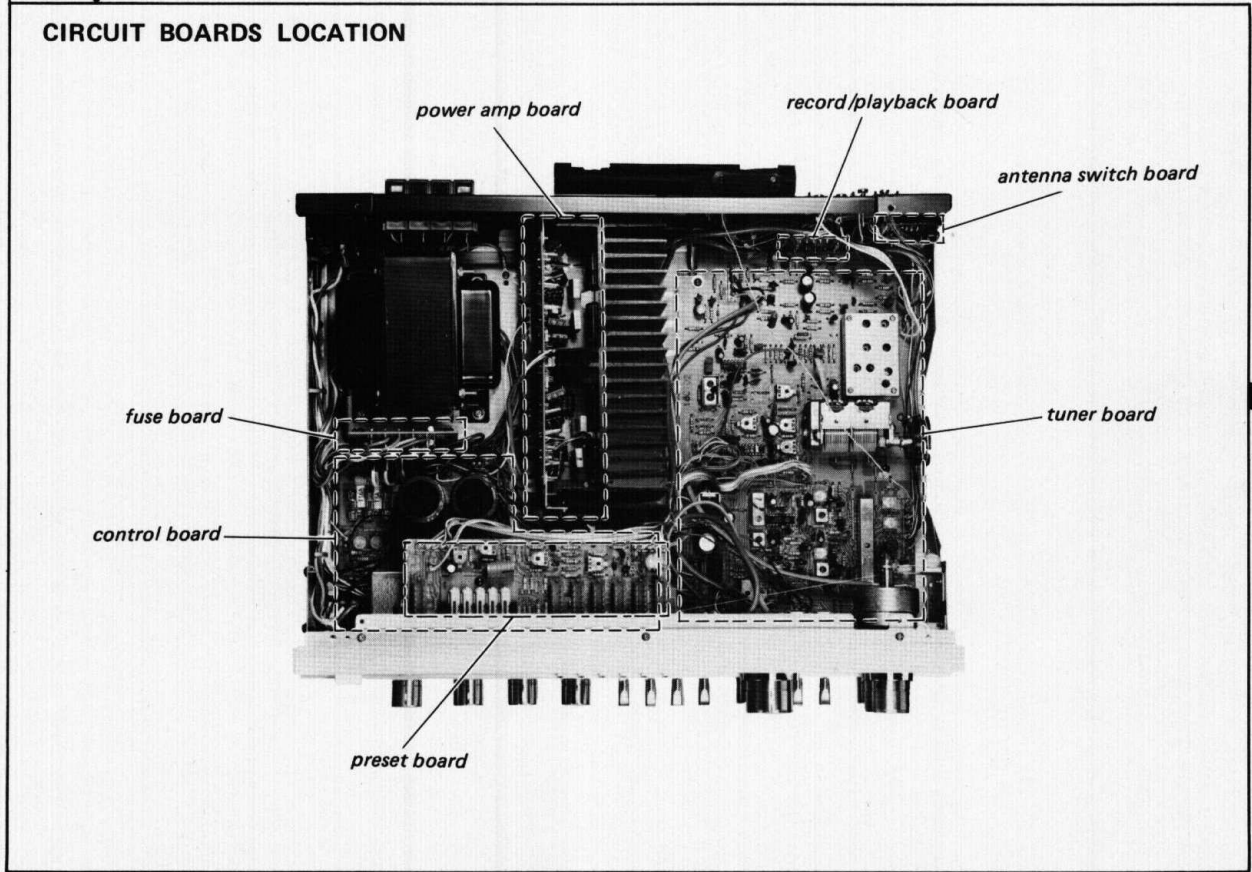
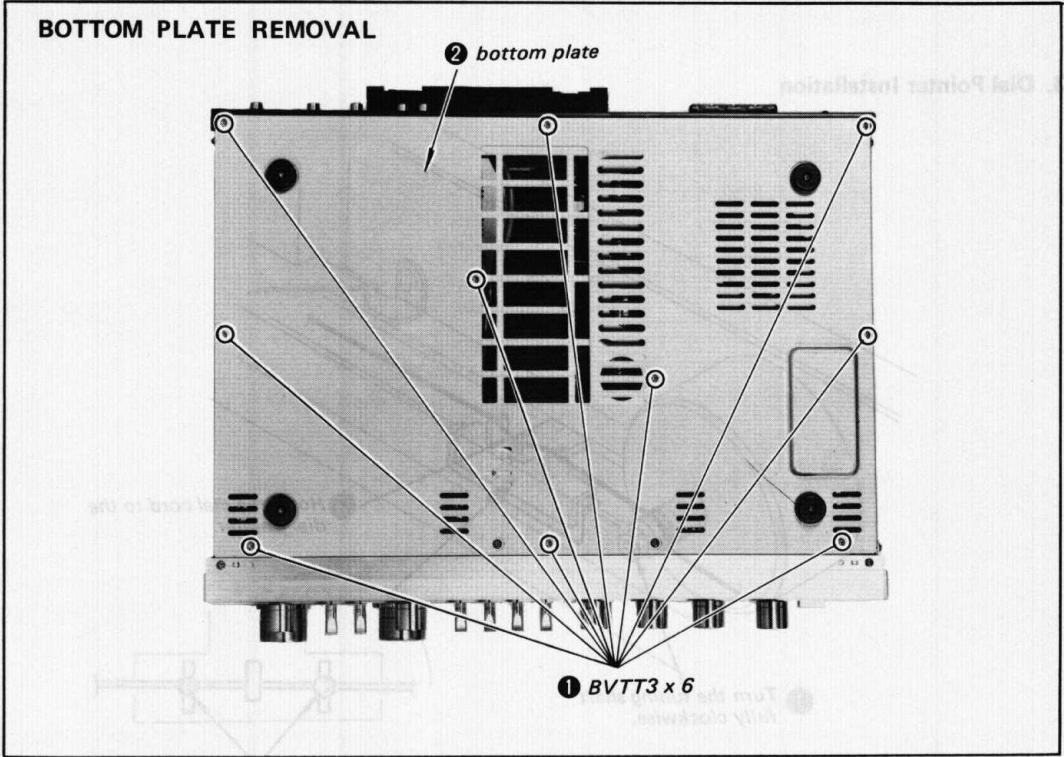
Note: • Follow the disassembly procedure in the numerical order given.

CASE REMOVAL



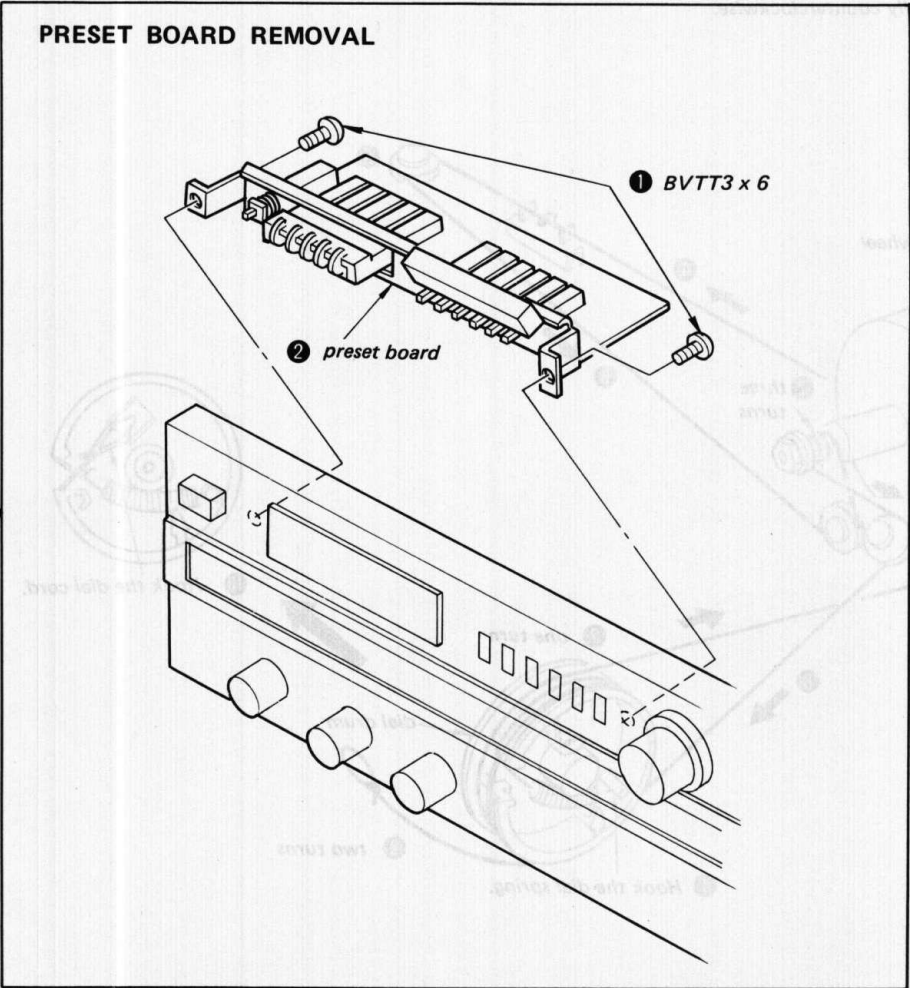
PANEL REMOVAL





1/4 WATT CARBON RESISTORS [Ⓐ] **Note:** Circled letter [Ⓐ] is applicable to European models only.

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
1.1	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
1.2	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
1.3	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
1.5	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
1.6	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
1.8	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
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
2.2	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
2.4	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
2.7	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
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
3.3	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
3.6	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
3.9	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
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
4.7	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
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
5.6	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

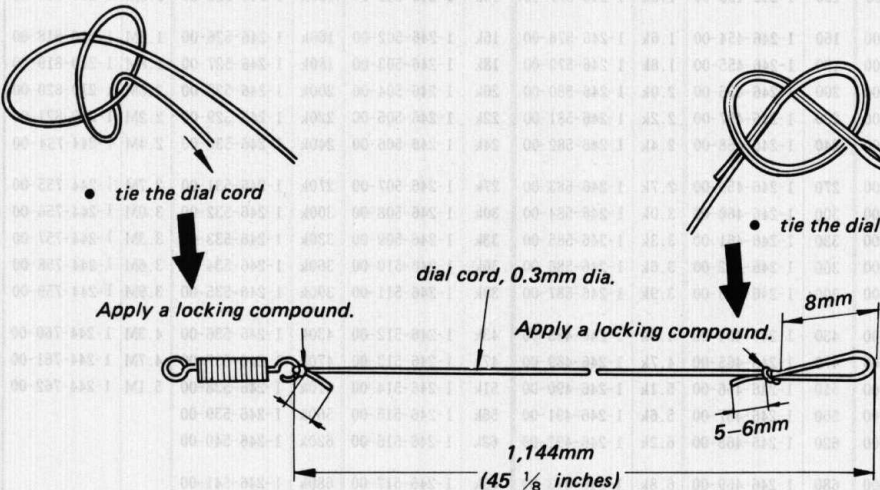


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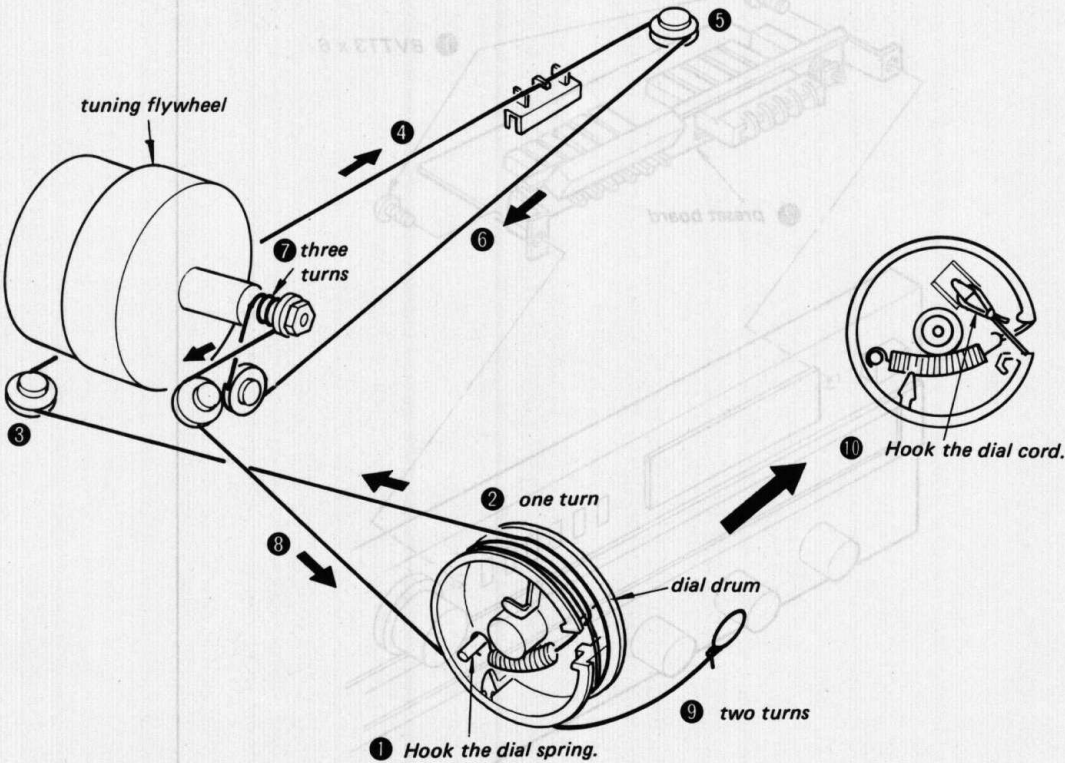
DIAL CORD STRINGING

1. Dial Cord Preparation

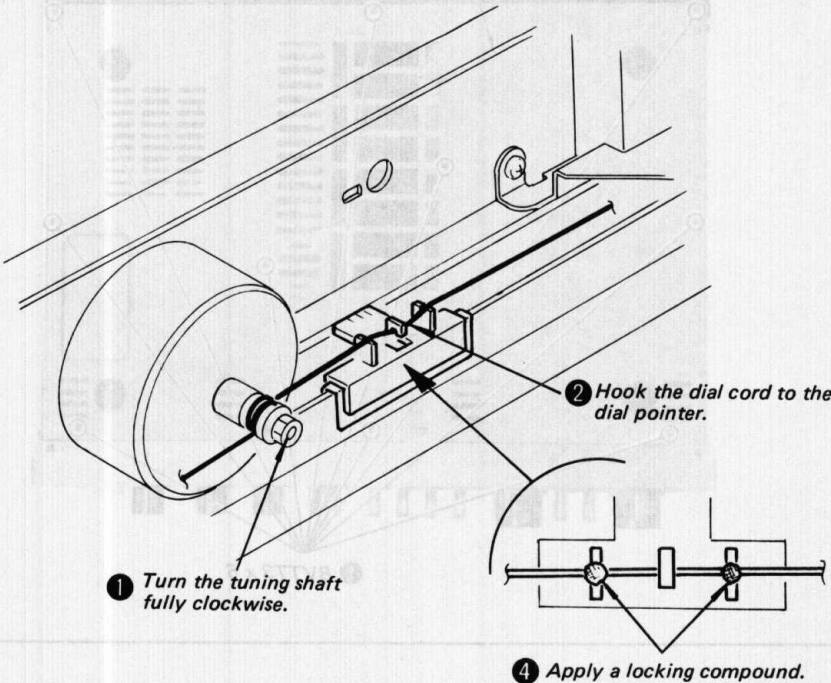


2. Dial Cord Stringing

- Turn the dial drum fully counterclockwise.



3. Dial Pointer Installation



SECTION 3

ELECTRICAL ADJUSTMENTS

Bias Adjustment

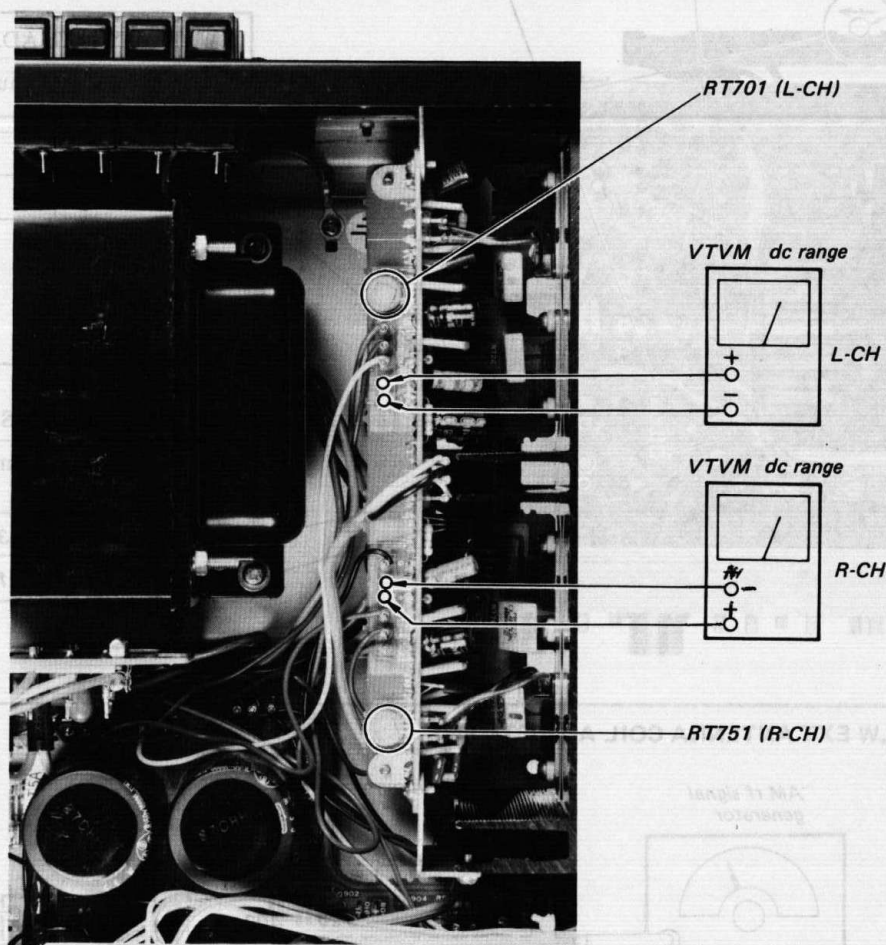
Setup:

1. Detune the set.
2. Perform this adjustment in one minute or more after turning the power switch on.

Procedure:

1. Adjust RT701 (L-CH) and RT751 (R-CH) for a 50 mV reading on the VTVM.

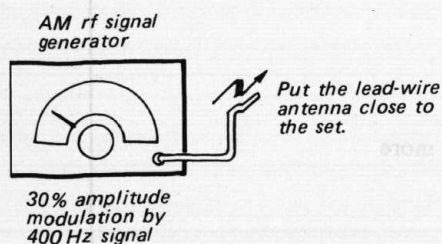
Adjustment Location: — power amp board —



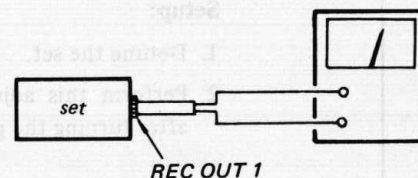
LW SECTION

Setup: FUNCTION switch: LW
 AM ANTENNA switch: BUILT-IN

Note: Repeat the LW and MW Tracking Adjustment alternately.



VOM
 (range: 0.5–5V ac)



IFT401 and CFT401 are adjusted in the factory, so no adjustment of AM IF is necessary.

IFT401

CFT401

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

LW TRACKING ADJUSTMENT

Adjust for a maximum reading on VOM.

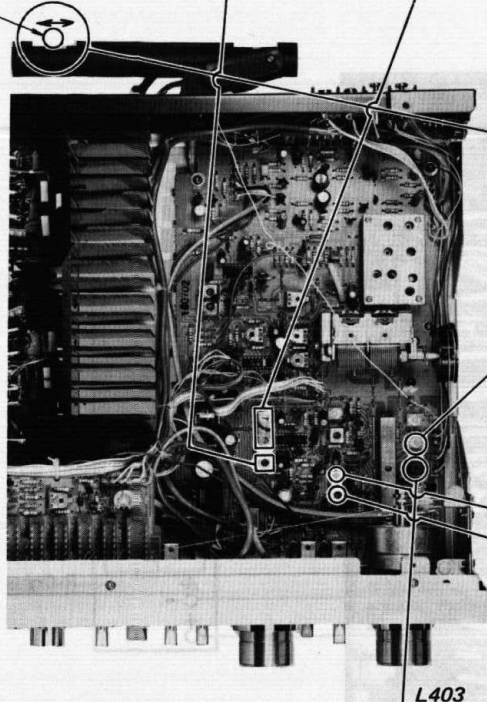
L402 (LW)	170 kHz
CT402	310 kHz

LW FREQUENCY COVERAGE ADJUSTMENT

Adjust for a maximum reading on VOM.

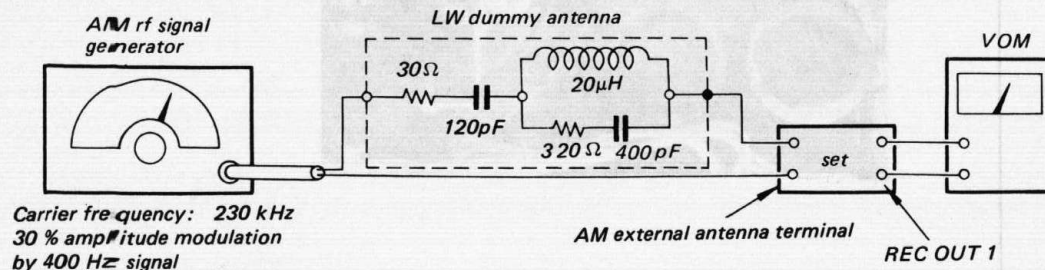
CT404	365 kHz
L408	145 kHz

adjustment knob



L403

LW EXT ANTENNA COIL ADJUSTMENT

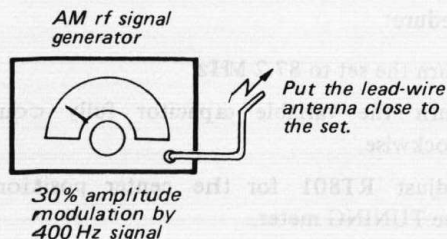


- Set the AM ANTENNA switch to EXT position.
- Tune the set to 230 kHz and adjust L403 for a maximum reading on VOM.

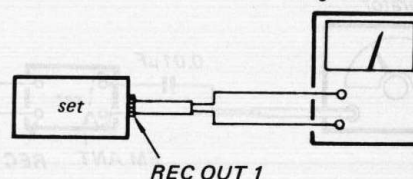
MW SECTION

Setup: FUNCTION switch MW
 AM ANTENNA switch: BUILT-IN

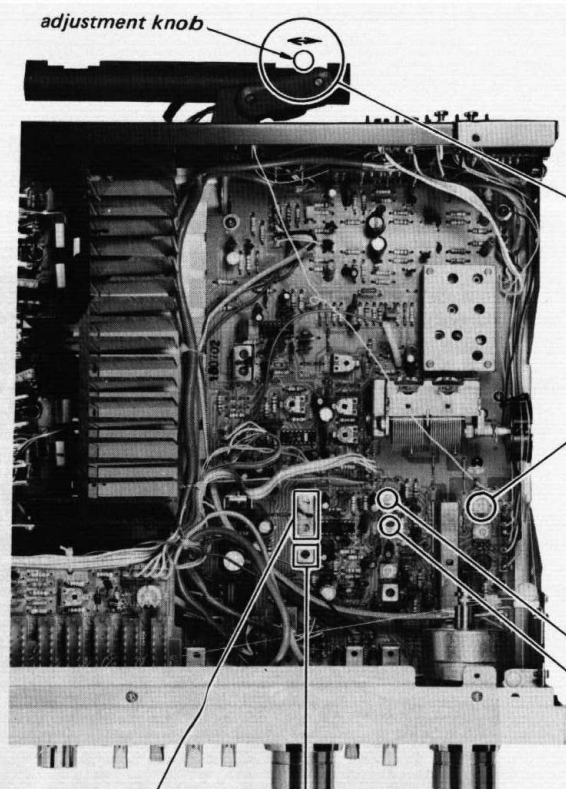
Note: Repeat the LW and MW Tracking Adjustment alternately.



VOM
 (range: 0.5–5V ac)



- 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.

L401 (MW)	600 kHz
CT401	1,350 kHz

MW FREQUENCY COVERAGE ADJUSTMENT

Adjust for a maximum reading on VOM.

CT403	1,680 kHz
L407	520 kHz

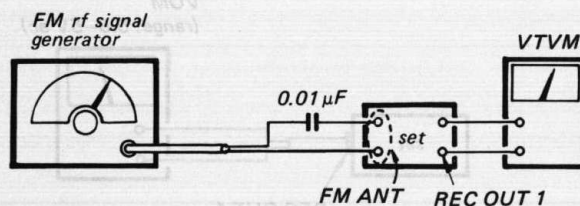
CFT401

IFT401

IFT401 and CFT401 are adjusted in the factory, so no adjustment of AM IF is necessary.

STR-V4L**FM SECTION****High Frequency and Low Frequency Adjustment**

Setup: PRESET switch: MANUAL

**FM Signal Generator Setting:**

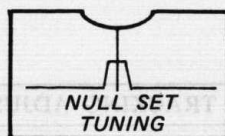
Carrier frequency: 108.4 MHz, 87.2 MHz

Output level: 1 mV (60 dB)

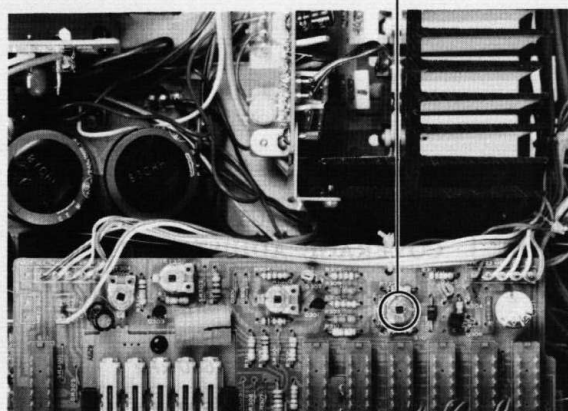
Modulation: 400 Hz, 75 kHz deviation (100 %)

● **High Frequency Adjustment****Procedure:**

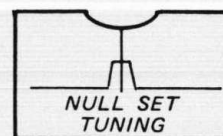
1. Tune the set to 108.4 MHz.
2. Turn the variable capacitor fully clockwise.
3. Adjust RT303 for the center position on the TUNING meter.



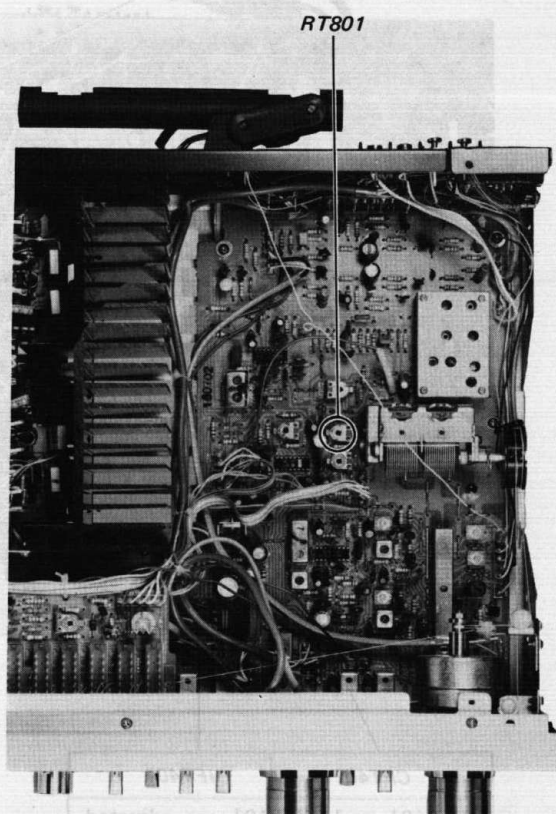
Adjustment Location: — preset board —

● **Low Frequency Adjustment****Procedure:**

1. Turn the set to 87.2 MHz.
2. Turn the variable capacitor fully counter-clockwise.
3. Adjust RT801 for the center position on the TUNING meter.

Note: Repeat the high frequency and low frequency adjustment several times.

Adjustment Location: — tuner board —



FM SECTION

Discriminator Adjustment

- Secondary-side Adjustment

Setup:

FM Signal Generator Setting:
Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Modulation: 400 Hz, 75 kHz deviation (100 %)

Procedure:

1. Tune the set to 98 MHz.
2. Adjust the secondary-side core (black) of IFT101 for a minimum reading on the distortion meter.

- Primary-side Adjustment

Procedure:

1. Detune the set.
2. Adjust the primary-side core (blue) of IFT101 for the center position on the TUNING meter.

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

FM Stereo Separation Adjustment

Setup:
MODE switch: FM STEREO

Procedure:

FM Signal Generator Setting:
Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Mode: Stereo
Modulation:
Audio (400 Hz): 33.75 kHz deviation (45 %)
Pilot (19 kHz): 7.5 kHz deviation (10 %)

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	(B) Adjust RT202 for Minimum reading.
R-CH	R-CH	(C)
L-CH	R-CH	(D) Adjust RT202 for minimum reading.

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

The difference between separations of both channels should be equal.

VCO Adjustment

A) With Frequency Counter

Setup:

FM Signal Generator Setting:
Carrier frequency: 98 MHz
Modulation: no modulation
Output level: 1 mV (60 dB)

B) Without Frequency Counter

Procedure:

1. Tune the set to 98 MHz.
2. Adjust RT201 for 76kHz ±100Hz on the counter.

Procedure:

1. Tune the set to FM stereo signals.
2. Turn RT201 clockwise or counterclockwise and secure RT201 at the center in lighting-up range of stereo lamp as shown below.

center in lighting up range
lighting up range
RT201

FRONT-END SECTION

The front-end section has been carefully adjusted at the factory, so the adjustment is unnecessary in the field.

Signal Meter Adjustment

Setup:

FUNCTION switch: FM

FM stereo signal generator

FM Signal Generator Setting:
Carrier frequency: 98 MHz
Modulation: no modulation
Output level: 3.2 mV (70 dB)

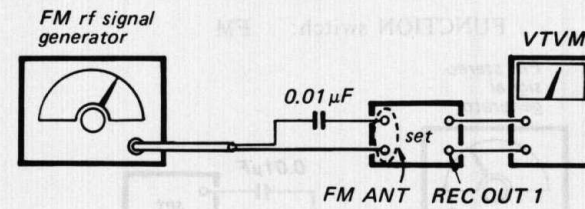
Procedure:

Tune the set to 98 MHz and adjust RT101 for specified pointer position (See figure below.) on the SIGNAL meter.

PRESET BOARD ADJUSTMENTS

1. Low Frequency Adjustment

Setup: PRESET switch **1** (S10-1): ON



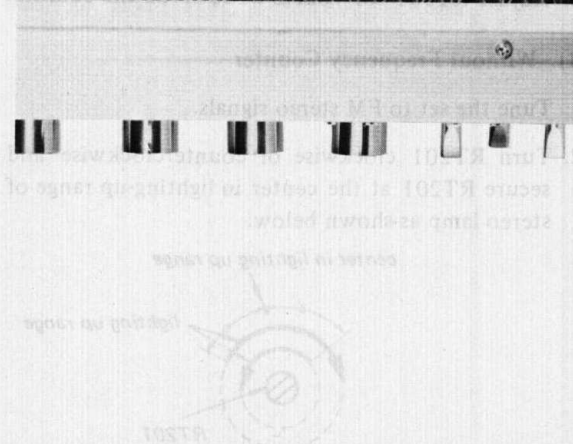
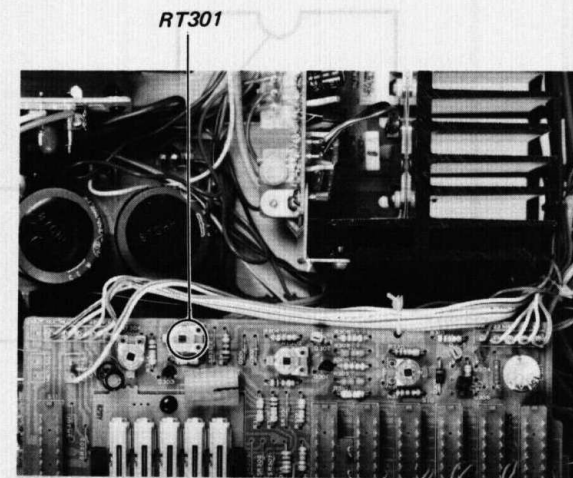
FM Signal Generator Setting:

Carrier frequency: 87.2 MHz
Modulation: 400 Hz, 75 kHz deviation (100 %)
Output level: 1 mV (60 dB)

Procedure:

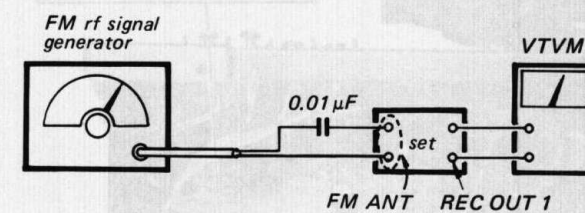
1. Tune the set to 87.2 MHz.
2. Turn the PRESET control (RV301) fully counter-clockwise.
3. Adjust RT301 to receive the signal.

Adjustment Location:



2. DC Balance Adjustment

Setup:



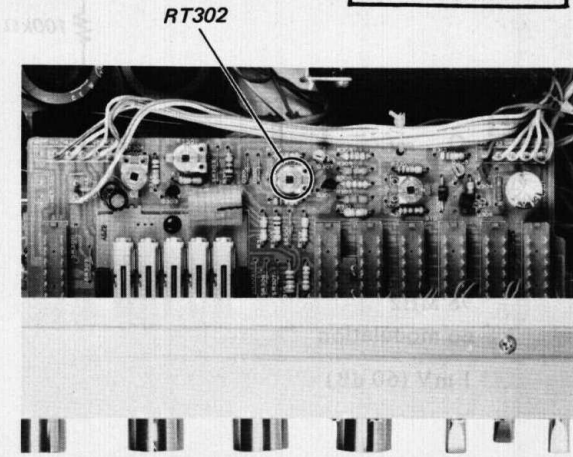
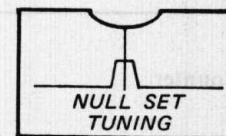
FM Signal Generator Setting:

Carrier frequency: 98 MHz
Modulation: 400 Hz, 75 kHz deviation (100 %)
Output level: 1 mV (60 dB)

Procedure:

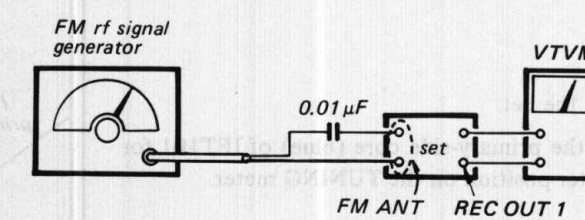
1. Set the PRESET switch (S10-6) to MANUAL.
2. Tune the set to 98 MHz.
3. Set the PRESET switch to **1** (S10-1) and turn the NULL SET switch (S11) on.
4. Adjust the PRESET control (RV301) for the center position of pointer on the NULL SET meter.
5. Turn the NULL SET switch off and readjust the PRESET control.
6. Turn the NULL SET switch on and adjust RT302 for the center position of pointer on the NULL SET meter.
7. Confirm that the NULL SET meter position is corrected. If necessary, repeat this adjustment several times.

Adjustment Location:



3. Meter Adjustment (FM FREQ)

Setup:



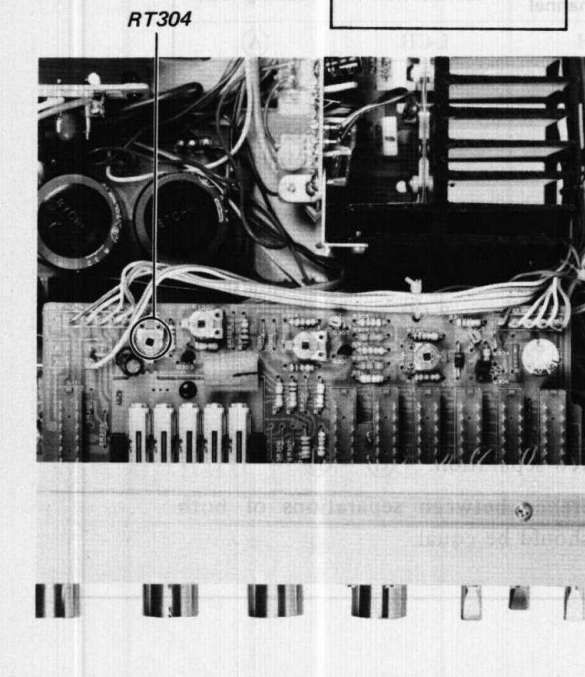
FM Signal Generator Setting:

Carrier frequency: 108 MHz
Modulation: 400 Hz, 75 kHz deviation (100 %)
Output level: 1 mV (60 dB)

Procedure:

1. Set the PRESET switch (S10-6) to MANUAL.
2. Tune the set to 108 MHz.
3. Set the PRESET switch to **1** (S10-1) and turn the NULL SET switch (S11) on.
4. Adjust the PRESET control for the center position of pointer on the NULL SET meter.
5. Turn the NULL SET switch off and readjust the PRESET control.
6. Turn the NULL SET switch on and adjust RT303 for specified pointer position on the FM FREQ meter.

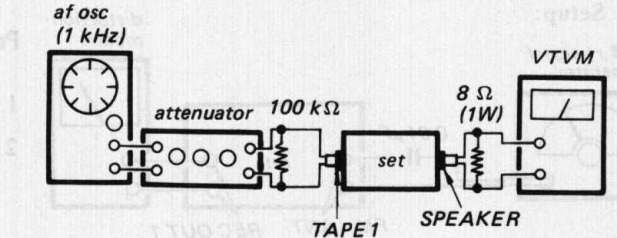
Adjustment Location:



POWER AMP BOARD ADJUSTMENT

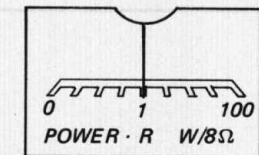
Power Meter Level Adjustment

Setup:

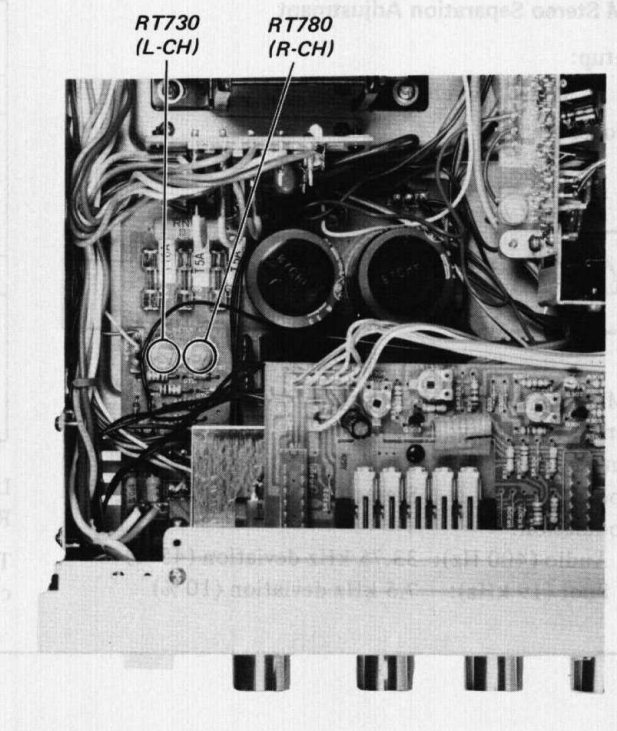


Procedure:

1. Turn the VOLUME control fully clockwise.
2. Adjust input level of the attenuator for 1W (2.83V) reading on the VTVM.
3. Adjust RT730 (L-CH) and RT780 (R-CH) for 1W reading on the POWER meter.



Adjustment Location: — power amp board —



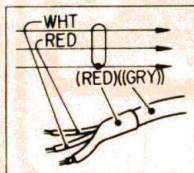
SECTION 4
DIAGRAMS

4-1. CONTROL BOARD MOUNTING DIAGRAM

— Conductor Side —

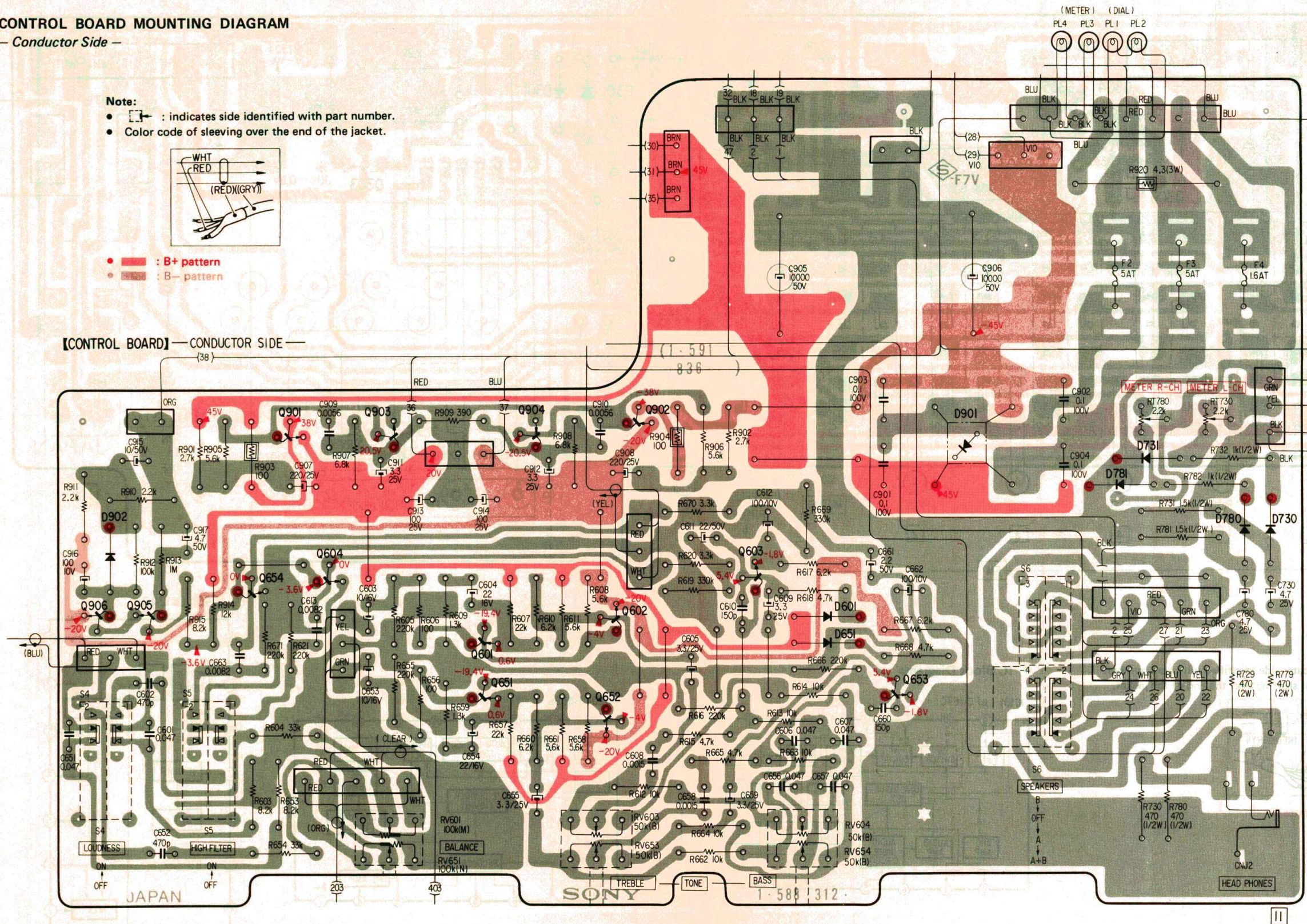
Note:

- [] : indicates side identified with part number.
- Color code of sleeving over the end of the jacket.



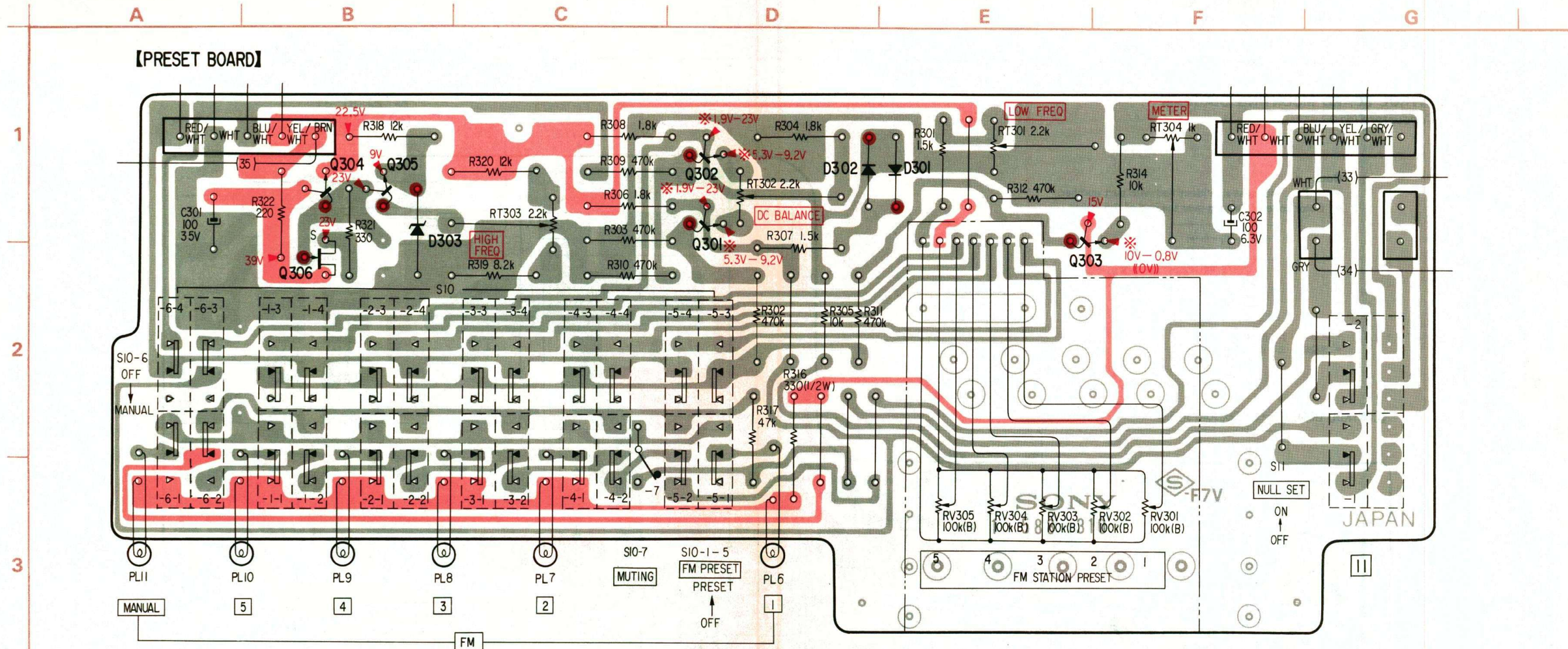
- : B+ pattern
- : B- pattern

【CONTROL BOARD】— CONDUCTOR SIDE —



4-2. PRESET BOARD MOUNTING DIAGRAM

— Conductor Side —



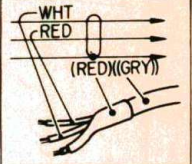
STR-V4L

12/2/2013

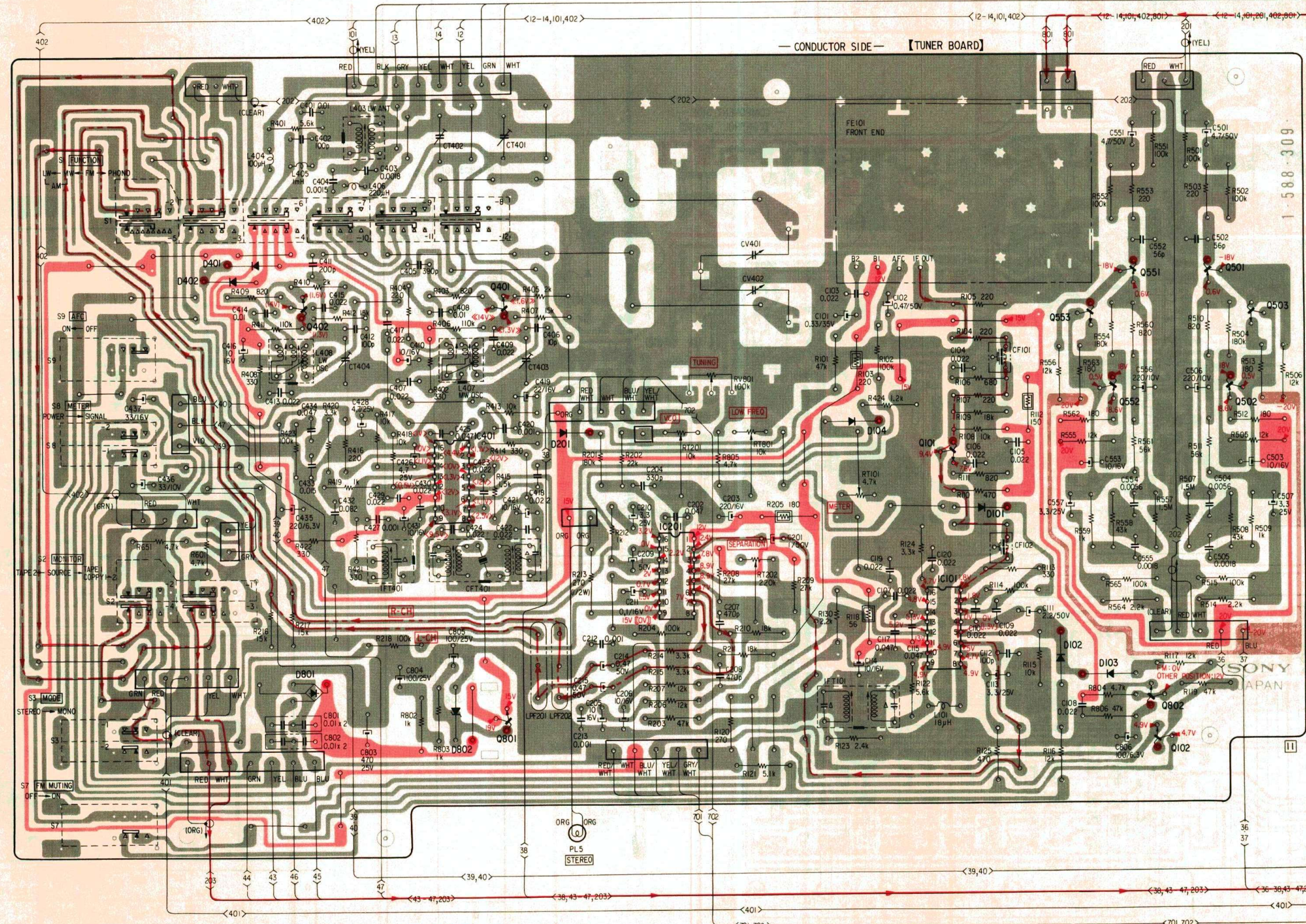
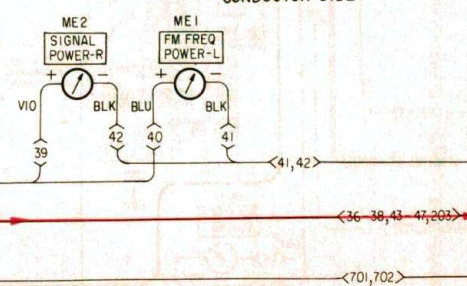
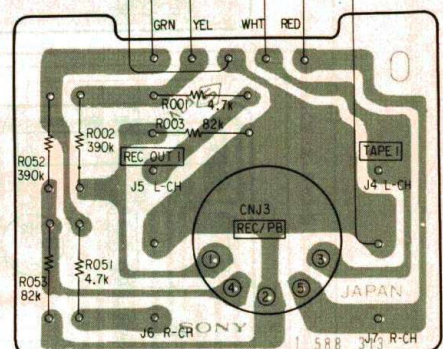
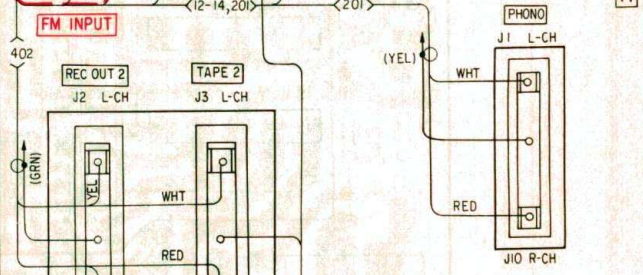
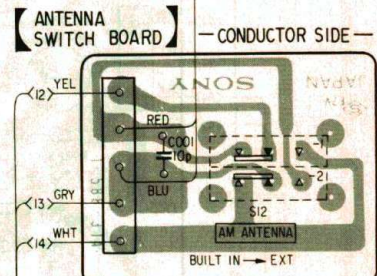
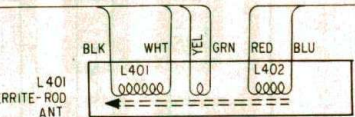
Note:

- : 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

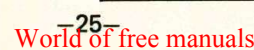


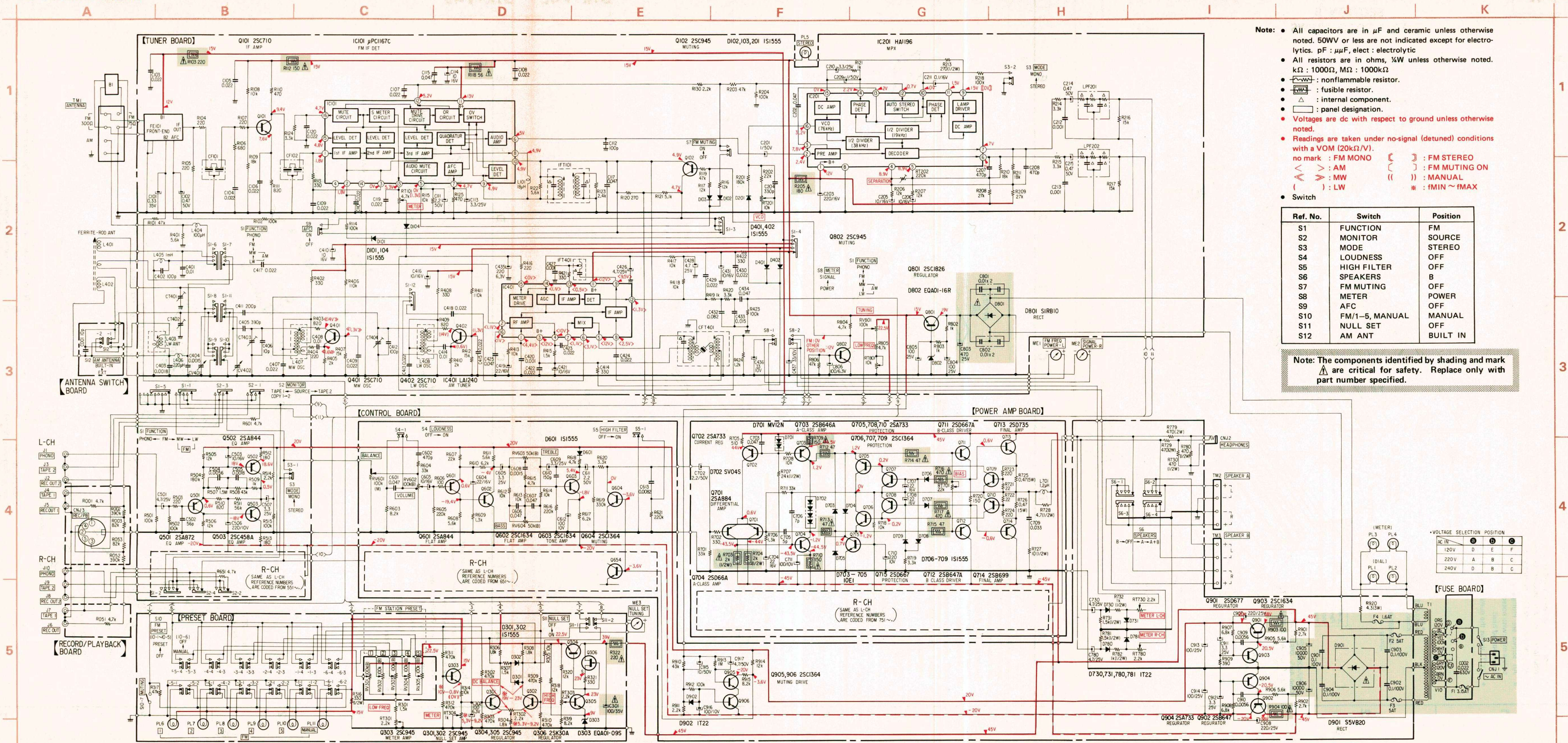
Q IC	402	IC401	401 801	IC201	101 IC101	553	551 552	802 102	501 502	503	Q IC
D	401 402	801	802	201	104	101	102	103			D



—23—

PL1 (DIAL)	PL2	PL3 (METER)	PL4
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100





A

B

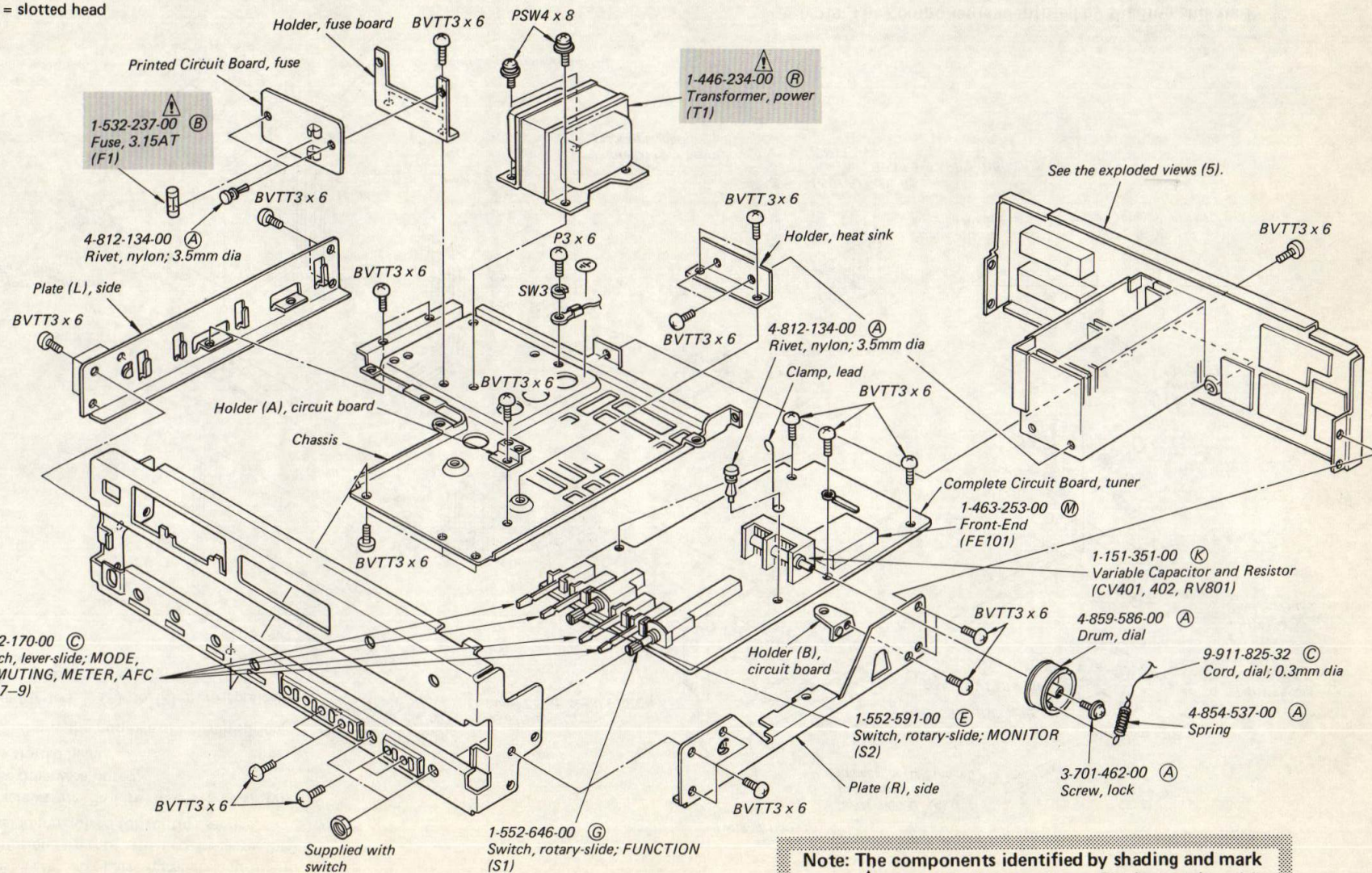
C

D

E

(4)

- 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
- (□□T) shows the number of coils in spring.
- Circled letters (A to Z) are applicable to European models only.



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

STR-V4L

A

B

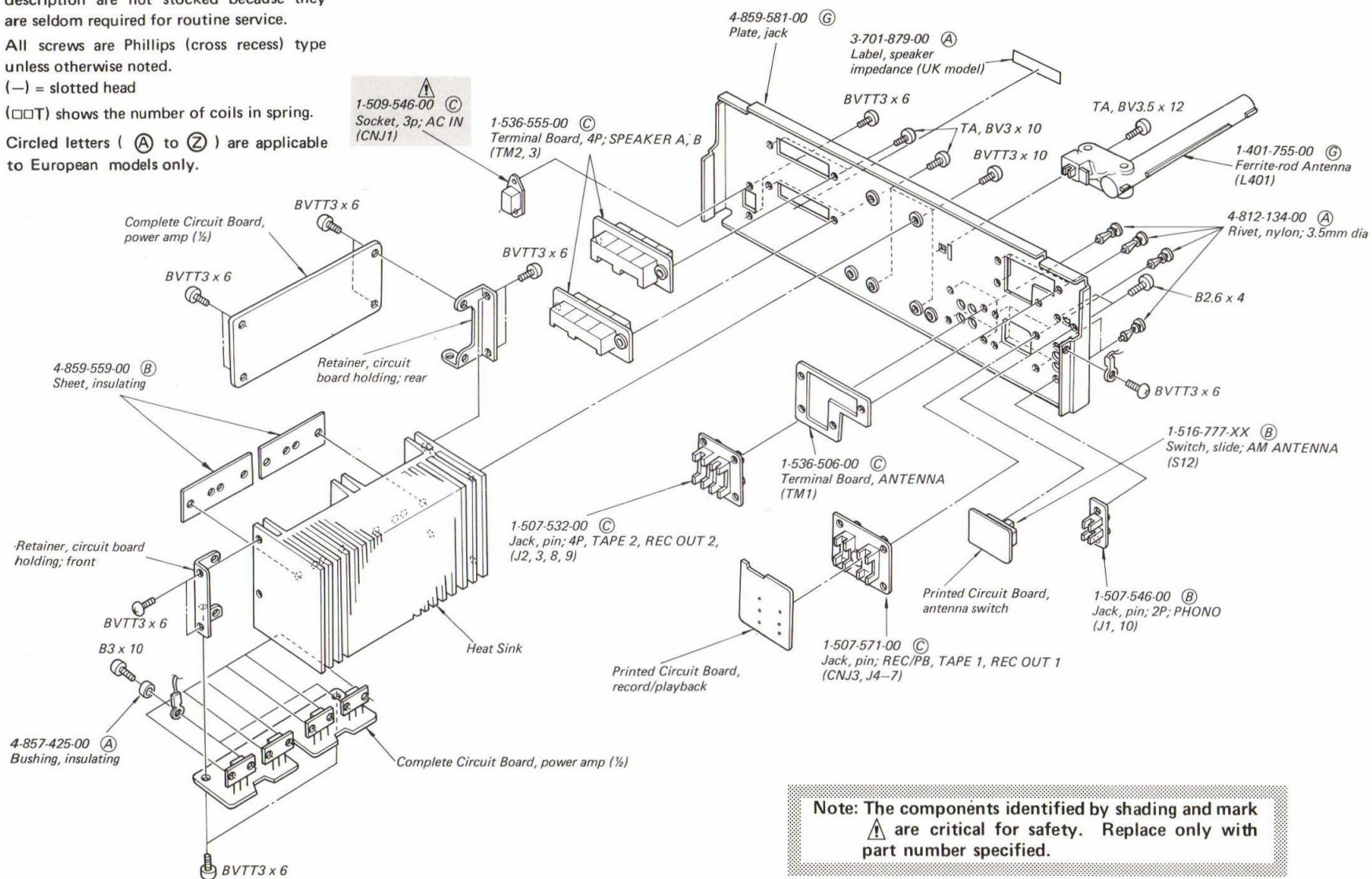
C

D

E

(5)

- 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
- (□□T) shows the number of coils in spring.
- Circled letters (A to Z) are applicable to European models only.



SECTION 6

ELECTRICAL PARTS LIST

• Circled letters (**A** to **Z**) are applicable to European models only.

Ref. No. Part No. Description

SEMICONDUCTORS

Transistors

Q101	8-729-671-13	(B) 2SC710
⇒ Q102	8-729-663-47	(B) 2SC1364
⇒ Q301-305	8-729-663-47	(B) 2SC1364
Q306	8-729-203-04	(C) 2SK30A
⇒ Q401, 402	8-729-671-15	(B) 2SC710-15
⇒ Q501, 551	8-729-387-27	(B) 2SA872-D
⇒ Q502, 552	8-727-788-00	(B) 2SA678
⇒ Q503, 553	8-729-665-47	(B) 2SC1362
⇒ Q601, 651	8-727-788-00	(B) 2SA678
⇒ Q602-604 Q652-654	8-729-663-47	(B) 2SC1364
Q701, 751	8-765-020-00	(D) 2SA884
⇒ Q702, 752	8-727-788-00	(B) 2SA678
⇒ Q703, 753	8-765-082-20	(C) 2SA896
⇒ Q704, 754	8-765-012-20	(C) 2SC1811
⇒ Q705, 755	8-727-788-00	(B) 2SA678
Q706, 756 Q707, 757	8-729-663-47	(B) 2SC1364
⇒ Q708, 758	8-727-788-00	(B) 2SA678
Q709, 759	8-729-663-47	(B) 2SC1364
⇒ Q710, 760	8-727-788-00	(B) 2SA678
Q711, 761	8-729-306-72	(B) 2SD667A
Q712, 762	8-729-300-72	(B) 2SB647A
Q713, 763	8-729-303-52	(I) 2SD735
Q714, 764	8-729-309-92	(F) 2SB699
Q715	8-729-366-71	(B) 2SD667
Q765	8-729-364-71	(C) 2SB647
Q801	8-729-382-62	(C) 2SC1826
⇒ Q802	8-729-663-47	(B) 2SC1364
⇒ Q901	8-760-413-10	(C) 2SC1475
⇒ Q902	8-729-468-43	(C) 2SA684
⇒ Q903	8-729-663-47	(B) 2SC1364
⇒ Q904	8-727-788-00	(B) 2SA678
⇒ Q905, 906	8-729-663-47	(B) 2SC1364

Ref. No. Part No. Description

ICs

IC101	8-759-111-67	(F) μ PC1167C
IC201	8-759-311-96	(G) HA1196
IC401	8-759-812-40	(F) LA1240

Diodes

D101-104	8-719-815-55	(A) 1S1555
D201	8-719-815-55	(A) 1S1555
D301, 302	8-719-815-55	(A) 1S1555
⇒ D303	8-719-931-01	(C) EQB01-09
D401, 402	8-719-815-55	(A) 1S1555
D601, 651	8-719-815-55	(A) 1S1555
D701, 751	8-719-912-00	(B) MV12N
D702, 752	8-719-930-11	(C) SV04S
⇒ D703-705 D753-755	8-719-200-02	(B) 10E2
D706-709 D756-759	8-719-815-55	(A) 1S1555
⇒ D730, 780 D731, 781	8-719-422-21	(A) 1T22AM
D801	8-719-510-10	(C) SIRB10
⇒ D802	8-719-931-16	(C) EQB01-16
D901	8-719-505-20	(F) S5VB20
⇒ D902	8-719-422-21	(A) 1T22AM

COILS

L101	1-407-741-00	(B) 18 μ H, microinductor
L401	1-401-755-00	(G) Ferrite-rod Antenna
L403	1-401-664-00	(B) LW ANT
L404	1-401-169-XX	(A) 100 μ H, microinductor
L405	1-401-195-XX	(B) 1mH, microinductor
L406	1-401-173-XX	(B) 220 μ H, microinductor
L407	1-405-826-00	(B) MW OSC
L408	1-405-827-00	(B) LW OSC

• ⇒: 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.

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

Ref. No.	Part No.	Description
TRANSFORMERS AND FILTERS		
B1	1-417-014-31	(B) Transformer, antenna matching
CF101,102	1-527-344-00	(B) Filter, ceramic
CFT401	1-404-087-00	(D) AM IFT
IFT101	1-404-011-00	(C) FM IFT
IFT401	1-404-085-00	(B) AM IFT
LPF201,202	1-231-224-00	(B) Filter, low-pass
T1	1-446-234-00	(R) Transformer, power

CAPACITORS

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

C001	1-102-947-61	(A)	10p		
C002	1-129-718-11	(A)	0.022	630V	polyethylene
C101	1-131-212-61	(A)	0.33	35V	tantalum
C102	1-121-911-00	(B)	0.47	50V	elect
C103-108	1-101-924-00	(A)	0.022		
C109, 110	1-101-924-00	(A)	0.022		
C111	1-121-450-00	(A)	2.2	50V	elect
C112	1-102-973-00	(A)	100p		
C113	1-121-392-00	(A)	3.3	25V	elect
C114	1-121-651-00	(A)	10	16V	elect
C115	1-101-925-00	(A)	0.047		
C117	1-101-925-00	(A)	0.047		
C119, 120	1-101-924-00	(A)	0.022		
C201	1-121-391-00	(A)	1	50V	elect
C202	1-108-246-00	(A)	0.047		mylar
C203	1-123-421-00	(B)	220	16V	elect
C204	1-104-065-00	(A)	330p		polyethylene
C205, 206	1-121-651-00	(A)	10	16V	elect
C207, 208	1-102-824-00	(A)	470p		
C209	1-121-391-00	(A)	1	50V	elect
C210	1-121-392-00	(A)	3.3	25V	elect
C211	1-131-451-00	(A)	0.1	16V	tantalum
C212, 213	1-108-227-00	(A)	0.001		mylar
C214, 215	1-121-911-00	(A)	0.47	50V	elect

C301	1-121-357-00	(B)	100	35V	elect
C302	1-121-413-00	(A)	100	6.3V	elect
C401	1-108-239-00	(A)	0.01		mylar
C402	1-102-973-00	(A)	100p		
C403	1-108-352-00	(B)	0.0018		mylar
C404	1-108-228-00	(A)	0.0015		mylar
C405	1-104-067-00	(A)	390p		polystyrol
C406	1-102-947-00	(A)	10p		
C407	1-108-242-00	(A)	0.022		mylar
C408	1-108-239-00	(A)	0.01		mylar
C409	1-108-242-00	(A)	0.022		mylar
C410	1-121-651-00	(A)	10	16V	elect
C411	1-104-060-00	(A)	200p		polystyrol
C412	1-102-973-00	(A)	100p		
C413	1-108-242-00	(A)	0.022		mylar
C414	1-108-239-00	(A)	0.01		mylar
C415	1-108-242-00	(A)	0.022		mylar
C416	1-121-651-00	(A)	10	16V	elect
C417, 418	1-101-924-00	(A)	0.022		
C419	1-121-479-00	(A)	22	16V	elect
C420	1-102-074-00	(A)	0.001		
C421	1-121-651-00	(A)	10	16V	elect
C422-424	1-101-924-00	(A)	0.022		
C425	1-101-925-00	(A)	0.047		
C426	1-121-395-00	(A)	4.7	25V	elect
C427	1-108-227-00	(A)	0.001		
C428	1-121-395-00	(A)	4.7	25V	elect
C429, 430	1-101-924-00	(A)	0.022	25V	elect
C431	1-121-651-00	(A)	10	16V	elect
C432	1-108-362-00	(A)	0.082		mylar
C433	1-108-240-00	(A)	0.015		mylar
C434	1-108-246-00	(A)	0.047		mylar
C435	1-121-419-00	(B)	220	6.3V	elect
C436, 437	1-121-402-00	(A)	33	10V	elect
C501, 551	1-121-450-00	(A)	4.7	25V	elect
C502, 552	1-101-884-00	(A)	56p		
C503, 553	1-121-651-00	(A)	10	16V	elect
C504, 554	1-108-573-00	(A)	0.0056		mylar
C505, 555	1-108-561-00	(A)	0.0018		mylar
C506, 556	1-121-420-00	(A)	220	10V	elect

Note: The components identified by shading and mark **1** are critical for safety. Replace only with part number specified.

- Circled letters (**A** to **Z**) are applicable to European models only.

Ref. No.	Part No.	Description
C507, 557	1-121-913-00 (A) 3.3	25V elect
C601, 651	1-108-595-00 (A) 0.047	mylar
C602, 652	1-102-824-00 (A) 470p	
C603, 653	1-121-651-00 (A) 10	16V elect
C604, 654	1-121-479-00 (A) 22	16V elect
C605, 655	1-121-392-00 (A) 3.3	25V elect
C606, 656	1-108-595-00 (A) 0.047	mylar
C607, 657		
C608, 658	1-108-559-00 (A) 0.0015	mylar
C609, 659	1-121-392-00 (A) 3.3	25V elect
C610, 660	1-101-361-51 (A) 150p	
C611, 661	1-121-450-00 (A) 2.2	50V elect
C612, 662	1-121-414-00 (A) 100	10V elect
C613, 663	1-108-577-00 (A) 0.0082	mylar
C702, 752	1-121-450-00 (A) 2.2	50V elect
C703, 753	1-108-246-00 (A) 0.047	mylar
C704, 754	1-121-479-00 (A) 22	16V elect
C705, 755	1-102-807-00 (A) 5p	
C706, 756	1-102-809-00 (A) 7p	
C707, 757	1-121-479-00 (A) 22	16V elect
C708, 758		
C709, 759	1-108-244-00 (A) 0.033	mylar
C710	1-121-420-00 (A) 220	10V elect
C711, 761	1-121-414-00 (A) 100	10V elect
C730, 780	1-121-395-00 (A) 4.7	25V elect
C801, 802	(A) 1-102-355-00 (A) 0.01/0.01	500V
C803	(A) 1-121-733-00 (B) 470	25V elect
C804, 805	1-121-417-00 (B) 100	25V elect
C806	1-121-413-00 (A) 100	6.3V elect
C901-904	(A) 1-108-389-00 (B) 0.1	100V elect
C905, 906	(A) 1-123-257-00 (I) 10,000	50V elect
C907, 908	1-121-422-00 (B) 220	25V elect
C909, 910	1-108-355-00 (A) 0.0056	mylar
C911, 912	1-121-392-00 (A) 3.3	25V elect
C913, 914	1-121-416-00 (B) 100	25V elect
C915	1-121-738-00 (A) 10	50V elect
C916	1-121-414-00 (A) 100	10V elect
C917	1-121-396-00 (A) 4.7	50V elect

Ref. No.	Part No.	Description
CT401	1-141-178-00 (B)	Trimmer
CT402-404	1-141-171-00 (B)	Trimmer

CV401,402
RV801) 1-151-351-00 **(K)** Variable Capacitor and Resistor,
TUNING

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted. Refer to the list on page 6 for their part numbers.

R103	(A) 1-211-530-00 (C) 220	¼W carbon (nonflammable)
R112	(A) 1-211-526-00 (C) 150	¼W carbon (nonflammable)
R118	(A) 1-211-516-00 (B) 56	¼W carbon (nonflammable)
R205	(A) 1-211-528-00 (A) 180	¼W carbon (nonflammable)
R213	1-244-859-00 (A) 270	½W carbon
R316	1-244-861-00 (A) 330	½W carbon
R322	(A) 1-211-530-00 (C) 220	¼W carbon (nonflammable)
R703,753	(A) 1-211-551-00 (A) 2k	½W carbon (nonflammable)
R704,754		
R707, 757	1-244-906-00 (A) 24k	½W carbon
R709,759	(A) 1-211-526-00 (C) 150	¼W carbon (nonflammable)
R710,760		
R712-715	(A) 1-211-514-00 (A) 47	¼W carbon (nonflammable)
R762-765		
R716,766	(A) 1-211-538-00 (A) 470	¼W carbon (nonflammable)
R717,767		
R725,775	1-217-158-00 (A) 0.47	5W metal oxide
R726,776		
R727, 777	1-244-825-00 (A) 10	½W
R728, 778	1-244-817-00 (A) 4.7	½W
R729, 779	1-206-656-00 (A) 470	2W metal oxide
R730, 780	1-244-865-00 (A) 470	½W
R731, 781	1-244-877-00 (A) 1.5k	½W
R732, 782	1-244-873-00 (A) 1k	½W
R903, 904	(A) 1-211-522-00 (C) 100	¼W carbon (nonflammable)

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

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

Ref. No.	Part No.	Description
R920	1-206-502-00 (B)	4.3 3W metal oxide
RT101	1-224-644-XX (B)	Adjustable, 4.7k; METER
RT201	1-224-645-XX (B)	Adjustable, 10k; VCO
RT202	1-224-649-XX (B)	Adjustable, 220k; SEPARATION
RT301	1-224-643-XX (B)	Adjustable, 2.2k; LOW FREQ
RT302	1-224-643-XX (B)	Adjustable, 2.2k; DC BALANCE
RT303	1-224-643-XX (B)	Adjustable, 2.2k; HIGH FREQ
RT304	1-224-642-XX (B)	Adjustable, 1k; METER
RT701,751	1-224-253-XX (C)	Adjustable, 22k; BIAS
RT730,780	1-224-250-XX (C)	Adjustable, 2.2k; METER-L, R
RT801	1-224-645-XX (B)	Adjustable, 10k; LOW FREQ
RV301-305	1-231-396-00 (I)	Variable, 100k (B) x 5; FM STATION PRESET
RV601,651	1-226-335-00 (C)	Variable, 100k/100k (M/N); BALANCE
RV602,652	1-226-334-00 (E)	Variable, 100k (B); VOLUME
RV603,653 RV604,654	1-226-333-00 (C)	Variable, 50k/50k (B/B); TONE (BASS, TREBLE)

SWITCHES

S1	1-552-646-00 (G)	Rotary-slide, FUNCTION
S2	1-552-591-00 (E)	Rotary-slide, MONITOR
S3	1-552-170-00 (C)	Lever-slide, MODE
S4, 5	1-552-170-00 (C)	Lever-slide, LOUDNESS, HIGH FILTER
S6	1-552-592-00 (E)	Rotary-slide, SPEAKERS
S7-9	1-552-170-00 (C)	Lever-slide, FM MUTING, METER, AFC
S10	1-552-644-00 (G)	Pushbutton, FM PRESET
S11	1-552-645-00 (B)	Pushbutton, NULL SET
S12	1-516-777-XX (B)	Slide, AM ANTENNA
S13	1-552-206-11 (D)	Pushbutton, POWER

JACKS

J1, 10	1-507-546-00 (B)	Pin, 2P; PHONO
J2, 3 J8, 9	1-507-532-00 (C)	Pin, 4P; TAPE 2, REC OUT 2

Ref. No.	Part No.	Description
CNJ1	1-509-546-00 (C)	Socket, 3P; AC IN
CNJ2	1-507-553-00 (C)	HEADPHONES
CNJ3 (J4-7)	1-507-571-00 (C)	Pin, REC/PB, TAPE 1, REC OUT 1

FUSES

F1	1-532-237-00 (B)	Fuse, 3.15AT
F2, 3	1-532-299-00 (B)	Fuse, 5AT
F4	1-532-259-00 (B)	Fuse, 1.6AT

MISCELLANEOUS

FE101	1-463-253-00 (M)	Front-end
ME1	1-520-384-00 (I)	Meter, FM FREQ/POWER-L
ME2	1-520-383-00 (I)	Meter, SIGNAL/POWER-R
ME3	1-520-386-00 (I)	Meter, NULL SET/TUNING
PL1, 2	1-518-070-XX (B)	Lamp, pilot; 8V 300mA; DIAL
PL3, 4	1-518-297-31 (C)	Lamp, pilot; 8V 300mA; METER
PL5	1-518-331-81 (B)	Lamp, pilot; 6V 35mA; STEREO
PL6-11	1-518-299-91 (B)	Lamp, pilot; 6V 35mA; FM/1-5, MANUAL
TM1	1-536-506-00 (C)	Terminal Board, ANTENNA
TM2, 3	1-536-555-00 (C)	Terminal Board, 4P; SPEAKER A, B
	1-533-051-XX (A)	Holder, lamp

ACCESSORIES & PACKING MATERIAL

Part No.	Description
1-501-161-00	(F) Antenna, feeder
1-534-819-00	(G) Cord, power (UK model)
3-701-020-00	(A) Bag, polyethylene
3-701-300-00	(A) Polyethylene
3-701-690-01	(A) Label (UK model)
3-701-879-00	(A) Label, speaker impedance (UK model)
3-770-670-11	(F) Manual, instruction
4-859-501-00	(C) Cushion, lower
4-861-111-00	(F) Carton
4-861-112-00	(C) Cushion, upper

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

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