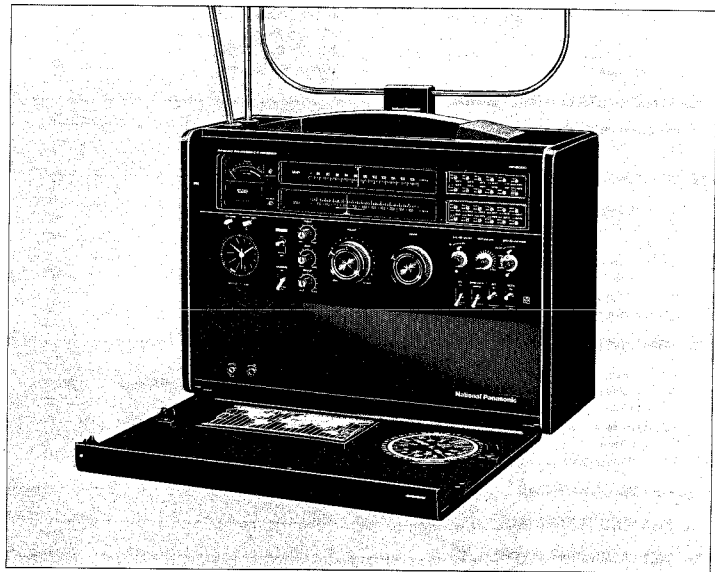


Service Manual

Radio

FM-AM 24-BAND RECEIVER

RF-8000



 **National Panasonic**

Matsushita Electric Trading Co., Ltd.
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CONTENTS

1. SPECIFICATIONS	5
2. LOCATION OF CONTROLS AND JACKS	6
3. CIRCUIT BLOCK DIAGRAMS	7
4. REMOVAL AND REASSEMBLY INSTRUCTIONS	8
4-1 Chassis	8
4-2 Front Chassis	9
4-3 Rear Cover of Chassis	9
4-4 AF Amplifier Unit	10
4-5 Operation (BFO, CAL, ANL, etc.) Unit	10
4-6 Tuning Shaft Unit	11
4-7 VHF-SW Selector Unit	11
4-8 SW Tuner Unit	11
4-9 LW/MW/MB1/MB2 RF Amplifier Unit	11
4-10 VHF Tuner Unit	12
4-11 Motor Unit	12
4-12 IF Amplifier Unit	12
4-13 Dial Scale Assembly	12
4-14 Dial Scale	12
4-15 SW Dial Pointer	13
4-16 Bottom Chassis	13
5. CORD INSTALLATION GUIDE	14
5-1 Calibration Cord	14
5-2 SW Dial Cord	14
5-3 VHF Dial Cord	14
5-4 Tuning Shaft Cord	14
6. ALIGNMENT INSTRUCTIONS	15
6-1 VHF-2nd Local OSC	15
6-2 LW, MW, MB1, MB2-IF	15
6-3 SW-IF	15
6-4 VHF AGC & Squelch Amplifier	15
6-5 VHF-IF	16
6-6 VHF-Narrow	16
6-7 Calibrator	16
6-8 BFO	16
6-9 VHF-RF	17
6-10 SW-Variable IF & RF	18
6-11 Squelch	22
6-12 LW, MW, MB1, MB2-RF	22
6-13 Tuning Meter	23
6-14 Battery Check	23
7. SCHEMATIC DIAGRAM AND CIRCUIT BOARD WIRING VIEW	24
7-1 General	25
7-2 Control/Band Selector/VHF-SW Selector	27
7-3 VHF Tuner	29
7-4 SW Tuner	29
7-5 VHF Segments	30
7-6 SW Segments	31
7-7 LW/MW/MB1/MB2 RF Amplifier	32, 35
7-8 IF Amplifier	33
7-9 Operation (BFO, CAL, ANL etc.)	36
7-10 AF Amplifier	38
7-11 AC Adaptor	40
8. PARTS LOCATIONS	41
9. PACKING MATERIALS	46
10. REPLACEMENT PARTS LIST	47
10-1 VHF Tuner Unit	47
10-2 SW Tuner Unit	47
10-3 LW/MW/MB1/MB2 RF Amplifier Unit	47
10-4 IF Amplifier Unit	48
10-5 Band Selector Unit	49
10-6 Control Unit	49
10-7 VHF-SW Selector Unit	50
10-8 Operation Unit	51
10-9 Motor Unit	52
10-10 AF Amplifier Unit	52
10-11 Terminal Unit	52
10-12 Tuning Shaft Unit	53
10-13 Cabinet	53
10-14 Chassis	54
10-15 Frame Antenna Unit	56
10-16 Packing Materials	56
10-17 Accessories	56
10-18 AC Adaptor	56

UNIT PARTS LOCATIONS (Front View)

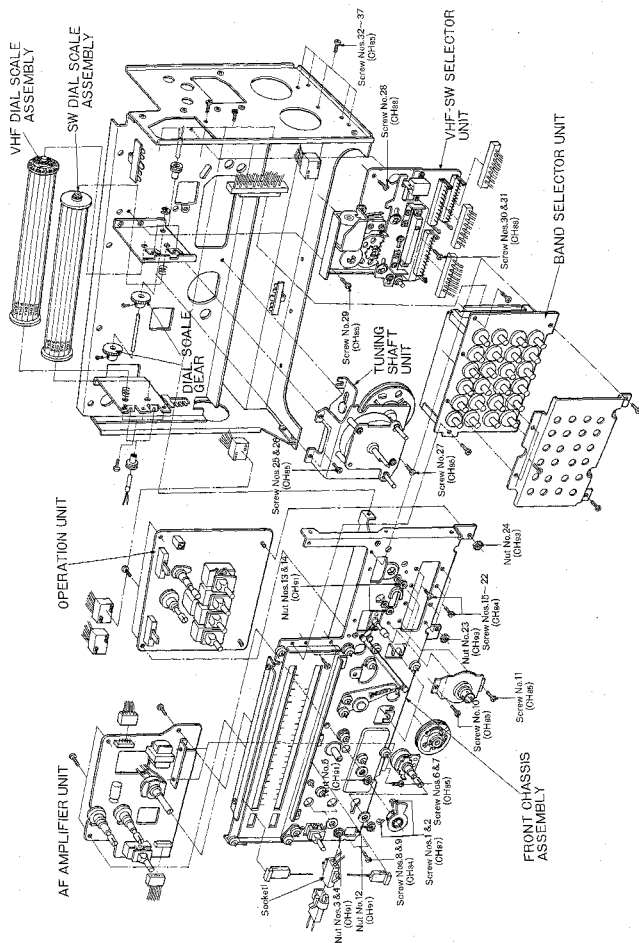


Fig. 1

UNIT PARTS LOCATIONS (Rear View)

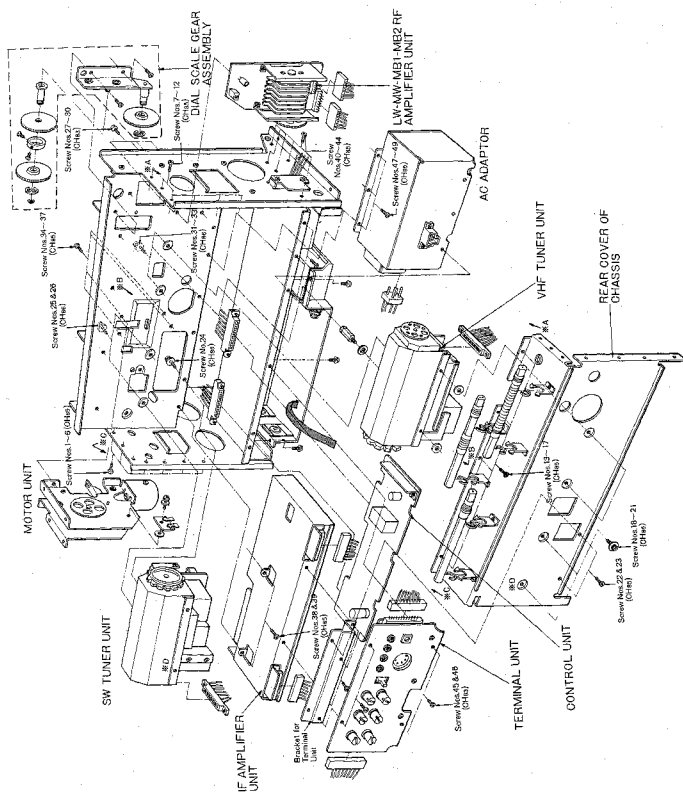


Fig. 2

1. SPECIFICATIONS

Bands and their Frequency Ranges

Bands	Frequency Range	Bands	Frequency Range	Bands	Frequency Range
VHF 1	30~40 MHz	LW	150~400 kHz (2000~750m)	SW 5	14.0~15.0 MHz (21.4~20m)
VHF 2	40~55 MHz	MW	520~1610 kHz (577~186m)	SW 6	15.0~16.0 MHz (20~18.8m)
VHF 3	55~76 MHz	MB 1	1.5~3.0 MHz (200~100m)	SW 7	17.5~18.5 MHz (17.1~16.2m)
VHF 4	76~90 MHz	MB 2	3.0~5.5 MHz (100~54.6m)	SW 8	21.0~22.0 MHz (14.3~13.6m)
VHF 5	88~108 MHz	SW 1	5.5~6.5 MHz (54.6~46.2m)	SW 9	25.5~26.5 MHz (11.8~11.3m)
VHF 6	108~136 MHz	SW 2	7.0~8.0 MHz (42.9~37.5m)	SW 10	26.5~27.5 MHz (11.3~10.9m)
VHF 7	136~176 MHz	SW 3	9.0~10.0 MHz (33.3~30m)	SW 11	28.0~29.0 MHz (10.7~10.3m)
VHF 8	176~230 MHz	SW 4	11.5~12.5 MHz (26.1~24m)	SW 12	29.0~30.0 MHz (10.3~10m)

Antennas: 2 whip antennas 1,308mm (51 $\frac{1}{4}$ ") for VHF
3 ferrite core antennas
12mm ($\frac{1}{2}$ ") ϕ x 200mm (7 $\frac{1}{4}$ ")
for LW, MW, MB
Frame antenna
435mm (17 $\frac{1}{4}$ ") x 300mm (11 $\frac{3}{4}$ ")
for SW, MW, MB
External antenna terminals:
VHF (75 Ω unbalanced)
SW (75 Ω unbalanced)
LW, MW, MB, SW (high impedance)

Sensitivity (S+N/N 6dB at flat position of tone control):

VHF
FM: 0.3~0.7 μ V
AM: 0.4~1.0 μ V
VHF 8:
FM: 2.0 μ V
AM: 6.0 μ V

LW, MW, MB, SW

LW 70 μ V/m
MW 15 μ V/m
MB 1 15 μ V/m
MB 2 20 μ V/m
SW 1~SW 12
0.2~0.4 μ V (SSB)
0.5~1.0 μ V (AM)

Image rejection:

VHF: 65~35 dB
LW: 65 dB
MW: 35 dB
MB: 30 dB
SW 1~SW 12: 70~35 dB

Selectivity:

VHF WIDE: 50 kHz
(-3 dB)
300 kHz
(-60 dB)
NARROW: 10 kHz (-3 dB)
15 kHz
(-60 dB)

LW, MW, MB, SW

WIDE: 1.7 kHz
(-3 dB)
17 kHz
(-60 dB)
NARROW: 1.1 kHz
(-3 dB)
3 kHz
(-60 dB)

Intermediate frequency:

VHF WIDE: 10.7 MHz
NARROW: 455 kHz (U. K. only 470 kHz)
LW, MW, MB 455 kHz (U. K. only 470 kHz)
SW VIF: 1.7~2.7 MHz
(variable)
IF: 455 kHz (U. K. only 470 kHz)

S/N ratio (400 Hz 30% modulation, 100 mV input):

VHF FM: 63 dB
AM: 55 dB
LW, MW, MB, SW: 55 dB

Squeech control for all FM modes of VHF:

variable
VHF: 30 dB
SW: 40 dB

MGC variable range:

\pm 3.5 kHz

BFO variable range:

Crystal marker

position for SW: Every 500 kHz

AFC width for VHF: \pm 500 kHz

MPX output:

-16 dBm, impedance 5k Ω output

Aux input (AC operation)

at 1W output: -32 dBm, impedance 470k Ω

Rec output: -24 dBm, impedance 350 Ω

DIN jack: PLAY -38 dBm (AC operation at 1W output)

impedance 470k Ω

REC -23 dBm,

impedance 80k Ω

Speakers: Two, 180mm (7") x 100mm (4")

8 Ω (switchable to built-in speakers)

Headphones jack: 8 Ω (standard), connectable with any headphones

Earphone jack: 8 Ω (standard), connectable with any earphone

Frequency response: 50 Hz~20 kHz, \pm 3 dB (aux in)

Power source: AC 100/120/220/240V 50/60 Hz

DC: 8 "D" size batteries

for radio (12V)

DC external power input (12V)

1 "D" size battery clock (1.5V)

Clock:

Tuning fork, battery powered

Jacks & terminals: External antenna for VHF (75 Ω)

External antenna for SW (75 Ω)

Frame antenna

External antenna for LW, MW,

MB, SW (high impedance)

MPX out, AUX in, REC out,

DIN (REC/PLAY)

External speaker (8 Ω)

Headphones (8 Ω)

Earphone (8 Ω)

AC power in, DC power in (12V)

Dimensions (W x H x D): 512 x 361 x 213mm

(20 $\frac{1}{8}$ " x 14 $\frac{1}{4}$ " x 8 $\frac{3}{8}$ ")

Weight: 21 kg (46 lb. 5 oz.)

without batteries

Specifications are subject to change without notice.

2. LOCATION OF CONTROLS AND JACKS

• Front View

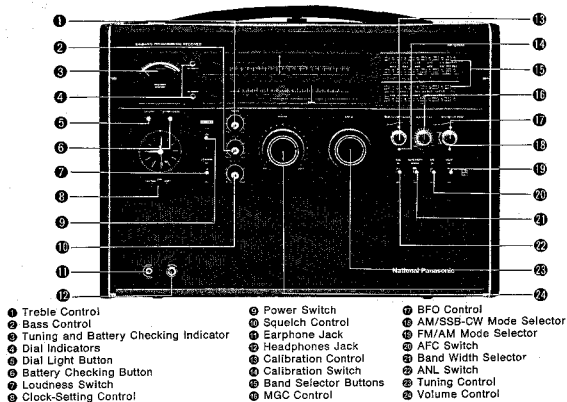


Fig. 3

• Rear View

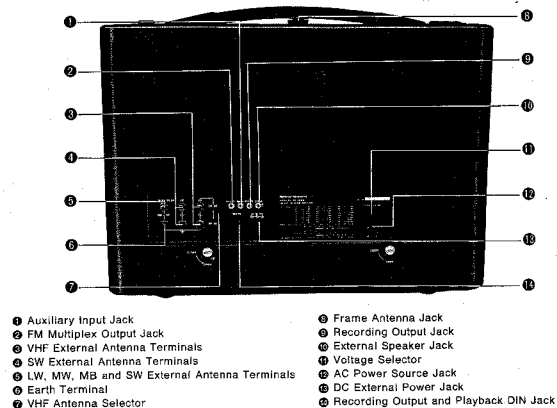


Fig. 4

3. CIRCUIT BLOCK DIAGRAMS

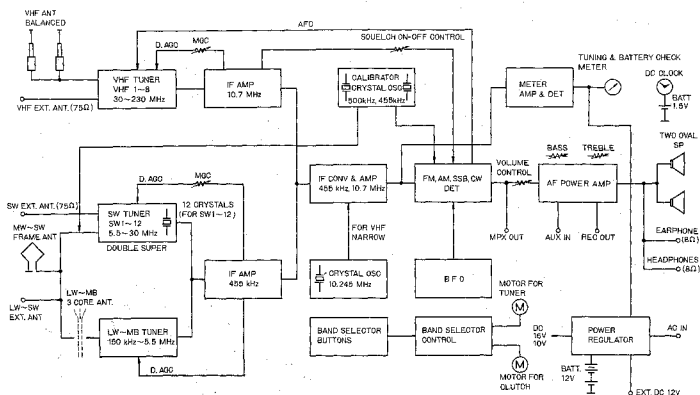


Fig. 5

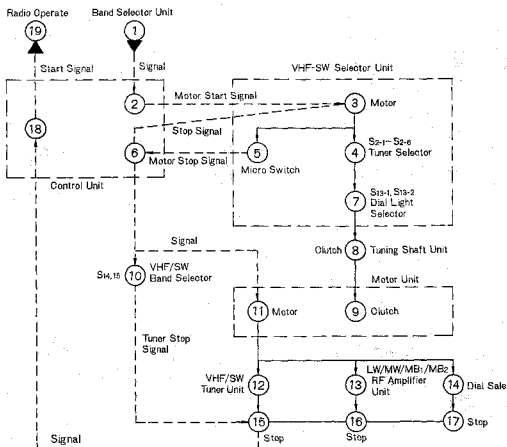


Fig. 6

4. REMOVAL AND REASSEMBLY INSTRUCTIONS

4-1 TO REMOVE CHASSIS

1. Remove cabinet front cover.
2. Set each dial pointer to start point.
3. Remove the three (3) screws (nos. 1~3) for the volume and tuning knobs, by using a hexagonal screwdriver, as shown in fig. 7.
4. Remove volume and tuning knobs.
5. Remove the one (1) chassis screw as shown in fig. 11.
6. Remove eight (8) knobs from cabinet.
7. Open the battery cover.
8. Remove the four (4) screws (nos. 1~4) for the cabinet back cover, as shown in fig. 8.
9. Remove cabinet back cover.
10. Remove the one (1) frame antenna jack nut, as shown in fig. 9
11. Remove the ten (10) chassis screws (nos. 1~10), as shown in fig. 10.
12. Loosen the two (2) jack screws (nos. 4 & 5), as shown in fig. 12.
13. Pull out batteries from chassis.
14. Pull out socket from chassis, as shown in fig. 12.
15. Remove the five (5) screws (nos. 1~3, 6 & 7) for the chassis and whip antenna, as shown in fig. 12.
16. Set power, loudness, ANL and AFC switches to "ON" position.
17. Set bandwidth switch to "NARROW" position.
18. Set mode switch to "FM" position.
19. Unsolder lead wires from cabinet, as shown in fig. 12.
20. Remove chassis from cabinet.
21. To reassemble, reverse the above procedure.

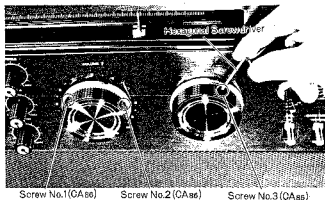


Fig. 7

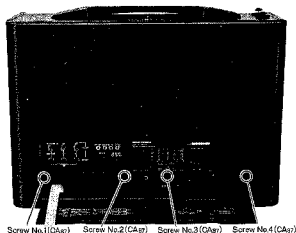


Fig. 8

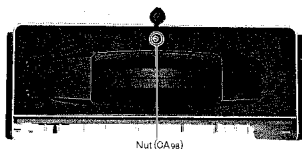


Fig. 9

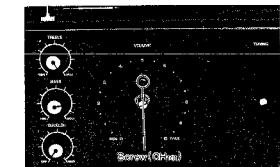


Fig. 11

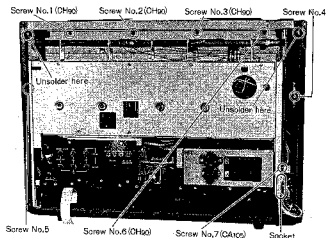


Fig. 12

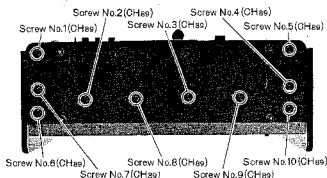


Fig. 10

4-2 TO REMOVE FRONT CHASSIS

1. Set each dial pointer to start point.
2. Loosen the four (4) dial drum screws (nos. 1, 2, 5 & 6), as shown in fig. 13.
3. Remove the wooden spacer from the left side of chassis.
4. Remove the four (4) front chassis screws (nos. 3, 4, 7 & 8), as shown in fig. 13.
5. Remove the four (4) front chassis screws (nos. 1~4), as shown in fig. 14.
6. Remove the eight (8) front chassis screws (nos. 1~8), as shown in fig. 15.
7. Remove front chassis.
8. Pull out sockets from front chassis.
9. To reassemble, reverse the above procedure, and note the following:
 1. Turn each drum shaft completely in the direction of arrows, as shown in fig. 16.
 2. Insert drum shaft, tuning shaft and PC board of IF amp. unit in the position shown in fig. 16.

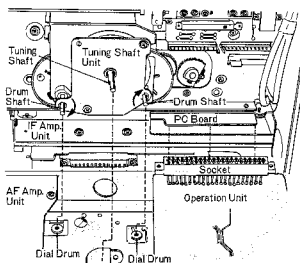


Fig. 16

4-3 TO OPEN REAR COVER OF CHASSIS

1. Remove the twenty three (23) rear cover screws (nos. 1~23), as shown in fig. 2. (Refer to page 4.)
2. Remove the four (4) rear cover screws (nos. 1~4), as shown in fig. 17.
3. Open rear cover in the direction of arrow, as shown in fig. 18.
4. To reassemble, reverse the above procedure.

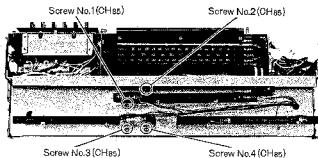


Fig. 17

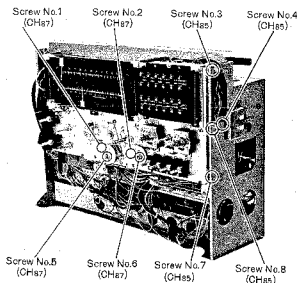


Fig. 13

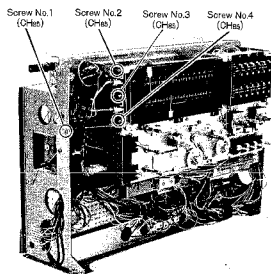


Fig. 14

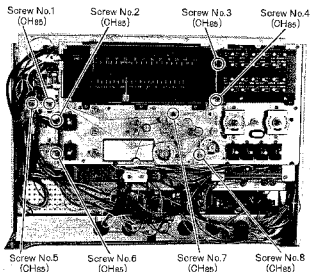


Fig. 15

4-4 TO REMOVE AF AMPLIFIER UNIT

1. Remove front chassis. (Refer to front chassis removal instructions.)
2. Remove the two (2) volume stopper screws (nos. 1 & 2), as shown in fig. 1. (Refer to page 3.)
3. Remove socket of power switch.
4. Remove the three (3) nuts (nos. 3~5) for the treble, bass and volume, as shown in fig. 1. (Refer to page 3.)
5. Remove the two (2) heat-sink screws (nos. 6 & 7), as shown in fig. 1. (Refer to page 3.)
6. Remove the four (4) PC board screws (nos. 2, 3, 5 & 6), as shown in fig. 19.
7. Remove the two (2) loudness switch screws (nos. 8 & 9), as shown in fig. 1. (Refer to page 3.)
8. Remove AF amplifier unit.
9. To reassemble, reverse the above procedure and note the following:
 1. Turn the volume shaft fully counterclockwise.
 2. Insert the volume stopper at the position shown in fig. 21.

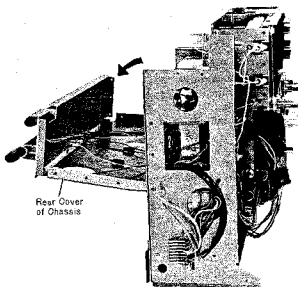


Fig. 18

4-5 TO REMOVE OPERATION UNIT

1. Remove front chassis. (Refer to front chassis removal instructions.)
2. Remove the two (2) selector mechanism (CH7a) screws (nos. 10 & 11), as shown in fig. 1. (Refer to page 3.)
3. Remove the two (2) MGC & BFO nuts (nos. 13 & 14), as shown in fig. 1. (Refer to page 3.)
4. Remove the eight (8) ANL, bandwidth, AFC and mode switch screws (nos. 15~22), as illustrated in fig. 1. (Refer to page 3.)
5. Remove the two (2) PC board nuts (nos. 23 & 24), as shown in fig. 1. (Refer to page no. 3.)
6. Remove the two (2) PC board screws (nos. 1 & 4), as shown in fig. 19.
7. Remove operation unit.
8. To reassemble, reverse the above procedure.

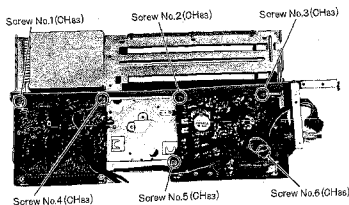


Fig. 19

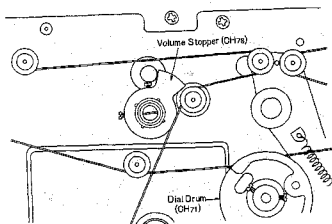


Fig. 21

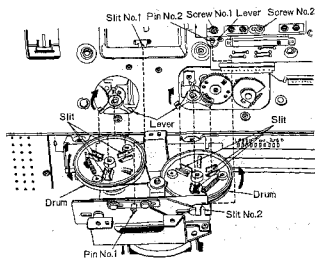


Fig. 20

4-6 TO REMOVE TUNING SHAFT UNIT

1. Remove front chassis. (Refer to front chassis removal instructions.)
2. Remove the three (3) tuning shaft unit screws (nos. 25~27), as shown in fig. 1. (Refer to page 3.)
3. Remove tuning shaft unit.
4. To reassemble, reverse the above procedure and note the following:
 1. Turn each drum completely in the direction of the arrow, as shown in fig. 20.
 2. Turn each tuner lever completely in the direction of the arrow and then set the drum to the same position as the tuner lever, as shown in fig. 20.
 3. Insert tuner lever in slit of drum and the pins 1 & 2 in slits 1 & 2, as shown in fig. 20.
 4. Adjust the lever of selector unit so that tuning shaft unit changes, as shown in fig. 20.
 5. Tighten the two (2) lever screws (nos. 1 & 2), as shown in fig. 20.
 6. Loosen the four (4) drum stopper screws (nos. 1~4), as shown in fig. 22.
 7. Turn each drum and then confirm that the variable capacitor can be turned from minimum to maximum.
 8. Tighten the four (4) drum stopper screws (nos. 1~4), as shown in fig. 22.

4-7 TO REMOVE VHF-SW SELECTOR UNIT

1. Remove front chassis. (Refer to front chassis removal instructions.)
2. Remove tuning shaft unit. (Refer to tuning shaft unit removal instructions.)
3. Remove the four (4) selector unit screws (nos. 28~31), as shown in fig. 1. (Refer to page 3.)
4. Remove selector unit.
5. Pull out socket from selector unit.
6. To reassemble, reverse the above procedure.

4-8 TO REMOVE SW TUNER UNIT

1. Remove front chassis. (Refer to front chassis removal instructions.)
2. Remove terminal unit and bracket, as shown in fig. 2. (Refer to page 4.)
3. Open rear cover of chassis. (Refer to rear cover opening instructions.)
4. Remove the three (3) tuner screws (nos. 24~26), as shown in fig. 2. (Refer to page 4.)
5. Pull out sockets from tuner.
6. Unsolder lead wires from tuner.
7. To reassemble, reverse the above procedure and refer to tuning shaft unit removal instructions.

4-9 TO REMOVE LW/MW/MB1/MB2 RF AMPLIFIER UNIT

1. Remove front chassis. (Refer to front chassis removal instructions.)
2. Open rear cover of chassis. (Refer to rear cover opening instructions.)
3. Remove the four (4) RF amp. unit screws (nos. 27~30), as shown in fig. 2. (Refer to page 4.)
4. Pull out sockets from RF amp. unit.
5. To remove RF amp. unit completely, unsolder lead wires to core antenna.
6. To reassemble, reverse the above procedure and note the following:
 1. Set the radio to LW position.
 2. Turn the gear of the switch ($S_{1-1} \sim S_{1-9}$) while measuring the conductance by tester, and attach the RF amp. unit after aligning the gear to the position which is half way between the limits at which there is conductance, as shown in fig. 23.

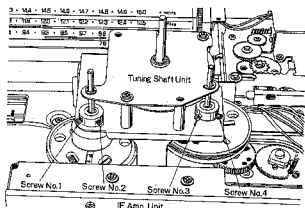


Fig. 22

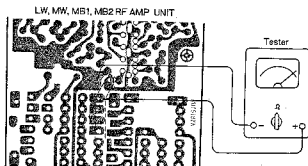


Fig. 23

4-10 TO REMOVE VHF TUNER UNIT

1. Remove front chassis. (Refer to front chassis removal instructions.)
2. Open rear cover of chassis. (Refer to rear cover opening instructions.)
3. Remove tuning shaft unit. (Refer to tuning shaft unit removal instructions.)
4. Remove LW/MW/MB1/MB2 RF amp. unit. (Refer to LW/MW/MB1/MB2 RF amp. unit removal instructions.)
5. Remove dial scale gear assembly, as shown in fig. 2. (Refer to page 4.)
6. Remove the three (3) tuner screws (nos. 31~33), as shown in fig. 2. (Refer to page 4.)
7. Pull out sockets from tuner.
8. Unsolder lead wires from tuner.
9. Remove VHF tuner.
10. To reassemble, reverse the above procedure and note the following:
 1. Set tuner at the LW position, as shown in fig. 24.
 2. Refer to dial scale mounting instructions.

4-11 TO REMOVE MOTOR UNIT

1. Remove VHF tuner unit. (Refer to VHF tuner unit removal instructions.)
2. Remove SW dial scale assembly. (Refer to dial scale removal instructions.)
3. Remove dial scale gear, as shown in fig. 1. (Refer to page 3.)
4. Remove the four (4) motor unit screw (nos. 34~37), as shown in fig. 2. (Refer to page 4.)
5. To remove motor unit completely, unsolder lead wires from motor unit.
6. To reassemble, reverse the above procedure and refer to dial scale mounting instructions.

4-12 TO REMOVE IF AMPLIFIER UNIT

1. Remove terminal unit and bracket, as shown in fig. 2. (Refer to page 4.)
2. Remove the two (2) IF amplifier unit screws (nos. 38 & 39), as shown in fig. 2. (Refer to page 4.)
3. Pull out sockets from IF amplifier unit.
4. Pull out IF amplifier unit.
5. To reassemble, reverse the above procedure.

4-13 TO REMOVE DIAL SCALE ASSEMBLY

1. Remove front chassis. (Refer to front chassis removal instructions.)
2. Loosen the two (2) dial scale bracket screws (nos. 1 & 2), as shown in fig. 25.
3. Push dial scale bracket in the direction of arrow① and remove dial scale in the direction of arrow②, as shown in fig. 25.
4. To reassemble, reverse the above procedure and refer to dial scale mounting instructions.

4-14 TO MOUNT DIAL SCALE ASSEMBLY

●VHF DIAL SCALE ASSEMBLY

1. Loosen the two (2) gear screws (nos. 1 & 2), as shown in fig. 26.
2. Set VHF tuner to "VHF 1" position.
3. Set dial scale to "VHF 1" position, as shown in fig. 27.
4. Tighten the two (2) gear screws (nos. 1 & 2), as shown in fig. 26.

●SW DIAL SCALE ASSEMBLY

1. Loosen the two (2) gear screws (nos. 1 & 2), as shown in fig. 28.
2. Set SW tuner to "SW1" position.
3. Set dial scale to "SW1" position, as shown in fig. 27.
4. Tighten the two (2) gear screws (nos. 1 & 2), as shown in fig. 28.

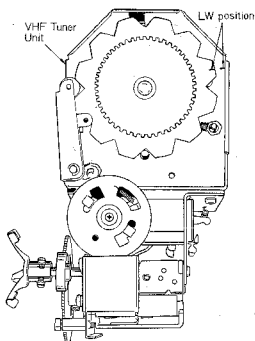


Fig. 24

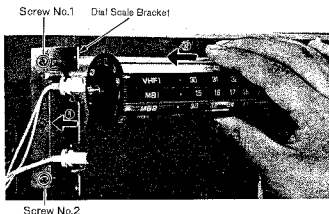


Fig. 25

4-15 TO MOUNT SW DIAL POINTER

1. Turn calibration shaft fully counterclockwise.
2. Turn tuning shaft fully counterclockwise.
3. Set dial pointer to stopper (left side) of pointer guide.
4. Attach dial cord to dial pointer.
5. Set dial pointer to start point of dial scale by turning calibration shaft.

4-16 TO OPEN BOTTOM CHASSIS

1. Remove the six (6) bottom chassis screws (nos. 32~37), as shown in fig. 1. (Refer to page 3.)
2. Remove the two (2) terminal unit screws (nos. 45 & 46), as shown in fig. 2. (Refer to page no. 4.)
3. Remove the three (3) AC adaptor screws (nos. 47~49), as shown in fig. 2. (Refer to page 4.)
4. Remove the five (5) bottom chassis screws (nos. 40~44), as shown in fig. 2. (Refer to page 4.)
5. Open bottom chassis in the direction of the arrow, as shown in fig. 29.
6. To reassemble, reverse the above procedure.

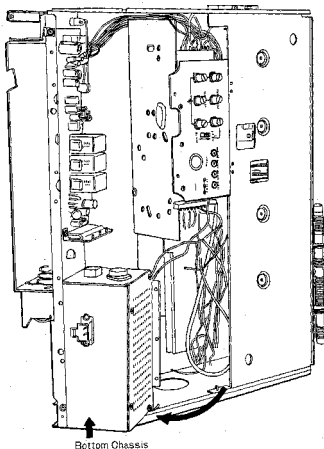


Fig. 29

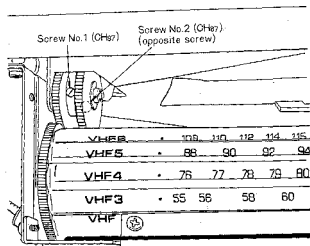


Fig. 26

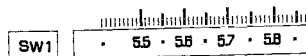
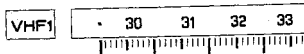


Fig. 27

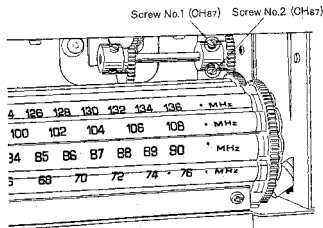


Fig. 28

5. CORD INSTALLATION GUIDE

5-1 CALIBRATION CORD

1. Cord length is 50 cm (20").
2. Arrows (1~5) indicate correct order and direction of cord installation, as shown in fig. 30.
3. Cement cord ends.

5-2 SW DIAL CORD

1. Cord length is 115 cm (45 3/8").
2. Set dial drum at the position, as shown in fig. 30.
3. Arrows (6~14) indicate correct order and direction of cord installation, as shown in fig. 30.
4. Cement cord ends.

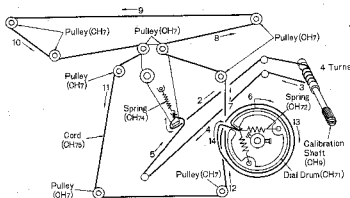


Fig. 30

5-3 VHF DIAL CORD

1. Cord length is 115 cm (45 3/8").
2. Set dial drum at the position, as shown in fig. 31.
3. Arrows (1~8) indicate correct order and direction of cord installation, as shown in fig. 31.
4. Cement cord ends.

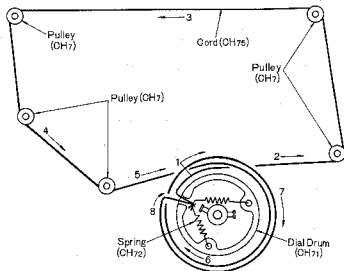


Fig. 31

5-4 TUNING SHAFT CORD

1. Remove tuning shaft unit. (Refer to tuning shaft unit removal instructions.)
2. Cord length is 170 cm (66 5/8").
3. Turn each drum to fully clockwise.
4. Arrows (1~6) indicate correct order and direction of cord installation, as shown in fig. 32.
5. Cement cord ends.

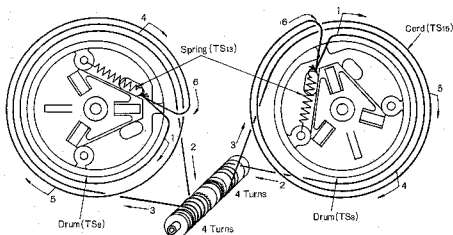


Fig. 32

6. ALIGNMENT INSTRUCTIONS



Fig. 33



Fig. 34

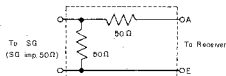


Fig. 35 Dummy Antenna

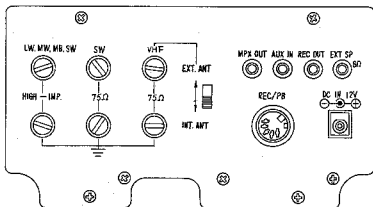


Fig. 36

● READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

- Set the volume control to the maximum position.
- Set the treble control to the center position.
- Set the bass control to the center position.
- Set the loudness switch to the OFF position.
- Set the squelch volume to the maximum position for the 56th adjustment, to the center position for the 57th adjustment, and to the OFF position for other adjustments.
- Set the MGC control to the maximum position.
- Set the calibration switch to the ON position for the 9th & 10th adjustments, and to the OFF position for other adjustments.
- Set the AM/SSB-CW mode selector to the SSB-CW position for the 11th & 12th adjustments, and to the AM position for other adjustments.
- Set the FM/AM mode selector to the AM position for the 2nd, 30th & 31st~55th adjustments, and to the FM position for other adjustment.
- Set the AFC switch to the ON position for the 8th adjustment, and to the OFF position for other adjustments.
- Set the ANL switch to the OFF position.
- Set the bandwidth selector to the narrow position for the 1st & 7th adjustments, and to the wide position for other adjustment.
- Set the EXT/INT antenna selector to the INT position for the 58th~65th adjustments and to the EXT position for other adjustments.
- Set the BFO control to the center position for the 11th & 12th adjustments.
- Output of signal generator should be no higher than necessary to obtain an output reading.

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING [DISTANCE]	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				

6-1 VHF-2nd LOCAL OSC ALIGNMENT

(1)	VHF1	_____	_____	Point of non-interference.	Connect VTVM to point TP ₆ . Common to chassis. (Refer to fig. 37.)	T ₁₀ (VHF LOCAL OSC) (Refer to fig. 37.)	Adjust T ₁₀ for maximum reading on VTVM.
-----	------	-------	-------	----------------------------	--	---	---

6-2 LW, MW, MB₁, MB₂ -IF ALIGNMENT

(2)	MW	Connect to the HIGH-IMP terminal. (Refer to fig. 36.)	455 kHz 30% Mod. at 400 Hz	"	Output meter across voice coil.	T ₈ (AM 1st IFT) T ₁₀ (AM 2nd IFT) T ₂₀ (AM 3rd IFT) T ₁₂ (AM 4th IFT) T ₁₄ (AM 5th IFT) (Refer to figs. 37, 39.)	Adjust for maximum output. Repeat two or three times.
-----	----	---	----------------------------------	---	---------------------------------	---	---

6-3 SW-IF ALIGNMENT

(3)	SW1	Connect to point TP ₄ . (Refer to fig. 38.)	"	"	"	T ₈ (SW IFT) (Refer to fig. 38.)	Adjust for maximum output.
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6-4 VHF AGC & SQUELCH AMPLIFIER ALIGNMENT

(4)	VHF1	Connect to point TP ₂ . Common to chassis. (Refer to fig. 40.)	10.7 MHz	"	Connect vert. amp. of scope to point TP ₇ . Common to chassis. (Refer to fig. 37.)	T ₇ (VHF AGC) T ₈ (VHF AGC) (Refer to fig. 37.)	Adjust for maximum amplitude and proper linearity between ± 100 kHz markers. (Refer to fig. 33.)
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BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING [DISTANCE]	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				

6-5 VHF-IF ALIGNMENT

(5)	VHF1	Connect to point TP ₂ . Common to chassis. (Refer to fig. 40.)	10.7 MHz	Point of non-interference.	Connect vert. amp. of scope to point 101. Common to chassis. (Refer to fig. 42.)	T ₁ (VHF 1st IFT) T ₂ (VHF 2nd IFT) T ₁₁ (VHF 3rd IFT) T ₁₃ (VHF 4th IFT) (Refer to figs. 37, 40.)	Adjust for maximum amplitude and proper linearity between ± 100 kHz markers. Repeat two or three times. (Refer to fig. 33.)
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VHF-DET ALIGNMENT

(6)	VHF1	"	"	"	Connect vert. amp. of scope to point 102. Common to chassis. (Refer to fig. 42.)	T ₁₅ (VHF DET) T ₁₆ (VHF DET) (Refer to fig. 37.)	Adjust T ₁₅ & T ₁₆ so that 10.7 MHz marker appears at the center. Repeat two or three times. (Refer to fig. 34.)
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6-6 VHF-NARROW ALIGNMENT

(7)	VHF1	Connect to point TP ₆ . Common to chassis. (Refer to fig. 37.)	455 kHz	"	"	T ₁₇ (VHF Narrow) T ₁₈ (VHF Narrow) (Refer to fig. 37.)	Adjust T ₁₇ & T ₁₈ so that 455 kHz marker appears at the center. Repeat two or three times. (Refer to fig. 34.)
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VHF-DET COMPENSATIONAL ALIGNMENT

(8)	VHF1	Connect to the VHF/75 Ω terminal through dummy antenna. (Refer to figs. 35, 36.)	31 MHz	Tune to signal.	Output meter across voice coil.	T ₁₉ (VHF DET) (Refer to fig. 37.)	Adjust for maximum output. If the adjustment of T ₁₉ is very different from the previous adjustment, make adjustment once again as described in steps 5 and 6.
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6-7 CALIBRATOR ALIGNMENT (455 kHz)

(9)	—	—	—	Point of non-interference.	Connect VTVM to test point TP ₉ . Common to chassis. (Refer to fig. 37.)	T ₂₁ (Calibrator OSC Coil) (Refer to fig. 37.)	Reduce the voltage value to 15% lower than that at maximum output by turning T ₂₁ . (Refer to fig. 41.) There are two adjustment places for making this 15% reduction; the place indicated by ● in figure 41 should be used.
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CALIBRATOR ALIGNMENT (500 kHz)

(10)	—	—	—	"	Connect VTVM to test point TP ₉ . Common to chassis. (Refer to fig. 42.)	T ₂₃ (Calibrator OSC Coil) (Refer to fig. 42.)	Reduce the voltage value to 15% lower than that at maximum output by turning T ₂₃ . (Refer to fig. 41.) There are two adjustment places for making this 15% reduction; the place indicated by ● in figure 41 should be used.
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6-8 BFO ALIGNMENT

(11)	—	Connect to test point TP ₉ . Common to chassis. (Refer to fig. 37.)	455 kHz	"	Audio output from speaker.	L ₈₃ (BFO OSC Coil) (Refer to fig. 42.)	Adjust for zero beat.
(12)	—	"	"	"	Connect VTVM to point 100 and 98. (Refer to fig. 42.)	T ₂₂ (BFO 455 kHz Transformer) (Refer to fig. 42.)	Adjust for maximum reading on VTVM.

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING [DISTANCE]	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
6-9 VHF1-RF ALIGNMENT						
VHF1	Connect to the VHF/75Ω terminal through dummy antenna. (Refer to figs. 35, 36.)	31 MHz	31 MHz [25mm(1 ¹ / ₄ ")]	Output meter across voice coil.	L ₅ (VHF1 OSC Coil) L ₄ (VHF1 DET Coil) L ₂ (VHF1 ANT Coil) L ₃ (VHF1 ANT Coil) (Refer to fig. 43.)	Adjust for maximum output.
VHF1	"	39 MHz	39 MHz [131mm(5 ¹ / ₈ ")]	"	C ₁₃ (VHF1 OSC Trimmer) C ₉ (VHF1 DET Trimmer) C ₅ (VHF1 ANT Trimmer) C ₇ (VHF1 ANT Trimmer) (Refer to fig. 43.)	Adjust for maximum output. Repeat steps (13) and (14).
VHF2-RF ALIGNMENT						
VHF2	"	41 MHz	41 MHz [19mm(3 ³ / ₄ ")]	"	L ₉ (VHF2 OSC Coil) L ₈ (VHF2 DET Coil) L ₇ (VHF2 ANT Coil) (Refer to fig. 44.)	Adjust for maximum output.
VHF2	"	54 MHz	54 MHz [139mm(5 ⁵ / ₈ ")]	"	C ₂₄ (VHF2 OSC Trimmer) C ₂₀ (VHF2 DET Trimmer) C ₁₆ (VHF2 ANT Trimmer) C ₁₉ (VHF2 ANT Trimmer) (Refer to fig. 44.)	Adjust for maximum output. Repeat steps (15) and (16).
VHF3-RF ALIGNMENT						
VHF3	"	56 MHz	56 MHz [16mm(5 ¹ / ₈ ")]	"	L ₁₃ (VHF3 OSC Coil) L ₁₂ (VHF3 DET Coil) L ₁₀ (VHF3 ANT Coil) L ₁₁ (VHF3 ANT Coil) (Refer to fig. 45.)	Adjust for maximum output.
VHF3	"	75 MHz	75 MHz [141mm(5 ⁵ / ₈ ")]	"	C ₂₆ (VHF3 OSC Trimmer) C ₃₂ (VHF3 DET Trimmer) C ₂₇ (VHF3 ANT Trimmer) C ₃₀ (VHF3 ANT Trimmer) (Refer to fig. 45.)	Adjust for maximum output. Repeat steps (17) and (18).
VHF4-RF ALIGNMENT						
VHF4	"	77 MHz	77 MHz [20mm(3 ³ / ₄ ")]	"	L ₁₇ (VHF4 OSC Coil) L ₁₆ (VHF4 DET Coil) L ₁₄ (VHF4 ANT Coil) (Refer to fig. 46.)	Adjust for maximum output.
VHF4	"	89 MHz	89 MHz [134mm(5 ³ / ₈ ")]	"	C ₅₁ (VHF4 OSC Trimmer) C ₄₅ (VHF4 DET Trimmer) C ₃₉ (VHF4 ANT Trimmer) (Refer to fig. 46.)	Adjust for maximum output. Repeat steps (19) and (20).
VHF5-RF ALIGNMENT						
VHF5	"	90 MHz	90 MHz [24mm(1 ¹ / ₄ ")]	"	L ₂₁ (VHF5 OSC Coil) L ₂₀ (VHF5 DET Coil) L ₁₈ (VHF5 ANT Coil) (Refer to fig. 47.)	Adjust for maximum output.
VHF5	"	106 MHz	106 MHz [129mm(5 ¹ / ₈ ")]	"	C ₅₄ (VHF5 OSC Trimmer) C ₅₉ (VHF5 DET Trimmer) C ₅₄ (VHF5 ANT Trimmer) (Refer to fig. 47.)	Adjust for maximum output. Repeat steps (21) and (22).

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING [DISTANCE]	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
VHF6-RF ALIGNMENT						
VHF6	Connect to the VHF/75a terminal through dummy antenna. (Refer to figs. 35, 36.)	110 MHz	110 MHz [20mm($\frac{5}{8}$ ")]	Output meter across voice coil.	L ₂₆ (VHF6 OSC Coil) L ₂₄ (VHF6 DET Coil) L ₂₂ (VHF6 ANT Coil) L ₂₃ (VHF6 ANT Coil) (Refer to fig. 48.)	Adjust for maximum output.
VHF6	"	134 MHz	134 MHz [134mm($5\frac{1}{4}$ ")]	"	C ₇₆ (VHF6 OSC Trimmer) C ₇₄ (VHF6 DET Trimmer) C ₆₆ (VHF6 ANT Trimmer) C ₇₂ (VHF6 ANT Trimmer) (Refer to fig. 48.)	Adjust for maximum output. Repeat steps (23) and (24).
VHF7-RF ALIGNMENT						
VHF7	"	138 MHz	138 MHz [21mm($\frac{3}{4}$ ")]	"	L ₂₉ (VHF7 OSC Coil) L ₂₈ (VHF7 DET Coil) L ₂₆ (VHF7 ANT Coil) L ₂₇ (VHF7 ANT Coil) (Refer to fig. 49.)	Adjust for maximum output.
VHF7	"	174 MHz	174 MHz [140mm($5\frac{5}{8}$ ")]	"	C ₆₆ (VHF7 OSC Trimmer) C ₆₈ (VHF7 DET Trimmer) C ₆₂ (VHF7 ANT Trimmer) C ₆₆ (VHF7 ANT Trimmer) (Refer to fig. 49.)	Adjust for maximum output. Repeat steps (25) and (26).
VHF8-RF ALIGNMENT						
VHF8	"	176 MHz	176 MHz [13mm($\frac{1}{2}$ ")]	"	L ₃₃ (VHF8 OSC Coil) (Refer to fig. 50.)	Adjust for maximum output.
VHF8	"	230 MHz	230 MHz [146mm($5\frac{7}{8}$ ")]	"	C ₁₁₃ (VHF8 OSC Trimmer) (Refer to fig. 50.)	"
VHF8	"	225 MHz	Tune to signal.	"	C ₆₆ (VHF8 ANT Trimmer) C ₁₀₄ (VHF8 ANT Trimmer) C ₁₀₇ (VHF8 DET Trimmer) (Refer to fig. 50.)	Adjust for maximum output. Repeat steps (27)~(29).

Notes: 1. Connect earth lead wire of frame antenna jack to chassis before SW alignment.
2. * Reduce the voltage value to 15% lower than that at maximum output by turning OSC coil. (Refer to fig. 41.)

6-10 SW-VARIABLE IF ALIGNMENT

(30)	SW1	Connect to test point TP ₄ . Common to chassis. (Refer to fig. 38.)	1.7 MHz 30% Mod. with 400 Hz	6.5 MHz	"	T ₅ (SW OSC Coil) T ₂ (SW DET Coil) T ₃ (SW DET Coil) (Refer to fig. 38.)	Adjust for maximum output.
(31)	SW1	"	2.7 MHz 30% Mod. with 400 Hz	5.5 MHz	"	C ₂₅₆ (SW OSC Trimmer) C ₂₄₆ (SW DET Trimmer) C ₂₅₃ (SW DET Trimmer) (Refer to fig. 38.)	Adjust for maximum output. Repeat steps (30) and (31).
SW1-RF ALIGNMENT							
(32)	SW1	Connect to the SW/75a terminal. (Refer to fig. 36.)	5.5 MHz	5.5 MHz [11mm($\frac{1}{2}$ ")]	"	L ₃₈ (SW1 OSC Coil) * L ₃₇ (SW1 DET Coil) L ₃₆ (SW1 ANT Coil) (Refer to fig. 51.)	Refer to note 2. Adjust for maximum output.
(33)	SW1	"	6.5 MHz	6.5 MHz [141mm($5\frac{5}{8}$ ")]	"	C ₁₃₈ (SW1 DET Trimmer) C ₁₃₅ (SW1 ANT Trimmer) (Refer to fig. 51.)	Adjust for maximum output. Repeat steps (32) and (33).

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING [DISTANCE]	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
SW2-RF ALIGNMENT						
4)	SW2	Connect to the SW/75a terminal (Refer to fig. 36.)	7 MHz [11mm ($\frac{1}{8}$ ")]	Output meter across voice coil.	L ₄₁ (SW2 OSC Coil) * L ₄₀ (SW2 DET Coil) L ₃₉ (SW2 ANT Coil) (Refer to fig. 52.)	Refer to note 2. Adjust for maximum output.
5)	SW2	"	8 MHz [141mm ($5\frac{5}{8}$ ")]	"	C ₁₄₈ (SW2 DET Trimmer) C ₁₄₃ (SW2 ANT Trimmer) (Refer to fig. 52.)	Adjust for maximum output. Repeat steps (34) and (35).
SW3-RF ALIGNMENT						
6)	SW3	"	9 MHz [11mm ($\frac{1}{8}$ ")]	"	L ₄₄ (SW3 OSC Coil) * L ₄₃ (SW3 DET Coil) L ₄₂ (SW3 ANT Coil) (Refer to fig. 53.)	Refer to note 2. Adjust for maximum output.
7)	SW3	"	10 MHz [141mm ($5\frac{5}{8}$ ")]	"	C ₁₅₄ (SW3 DET Trimmer) C ₁₅₁ (SW3 ANT Trimmer) (Refer to fig. 53.)	Adjust for maximum output. Repeat steps (36) and (37).
SW4-RF ALIGNMENT						
8)	SW4	"	11.5 MHz [11mm ($\frac{1}{8}$ ")]	"	L ₄₇ (SW4 OSC Coil) * L ₄₆ (SW4 DET Coil) L ₄₅ (SW4 ANT Coil) (Refer to fig. 54.)	Refer to note 2. Adjust for maximum output.
9)	SW4	"	12.5 MHz [141mm ($5\frac{5}{8}$ ")]	"	C ₁₆₃ (SW4 DET Trimmer) C ₁₆₀ (SW4 ANT Trimmer) (Refer to fig. 54.)	Adjust for maximum output. Repeat steps (38) and (39).
SW5-RF ALIGNMENT						
10)	SW5	"	14 MHz [11mm ($\frac{1}{8}$ ")]	"	L ₅₀ (SW5 OSC Coil) * L ₄₉ (SW5 DET Coil) L ₄₈ (SW5 ANT Coil) (Refer to fig. 55.)	Refer to note 2. Adjust for maximum output.
11)	SW5	"	15 MHz [141mm ($5\frac{5}{8}$ ")]	"	C ₁₇₁ (SW5 DET Trimmer) C ₁₆₈ (SW5 ANT Trimmer) (Refer to fig. 55.)	Adjust for maximum output. Repeat steps (40) and (41).
SW6-RF ALIGNMENT						
12)	SW6	"	15 MHz [11mm ($\frac{1}{8}$ ")]	"	L ₅₃ (SW6 OSC Coil) * L ₅₂ (SW6 DET Coil) L ₅₁ (SW6 ANT Coil) (Refer to fig. 56.)	Refer to note 2. Adjust for maximum output.
13)	SW6	"	16 MHz [141mm ($5\frac{5}{8}$ ")]	"	C ₁₈₀ (SW6 DET Trimmer) C ₁₇₆ (SW6 ANT Trimmer) (Refer to fig. 56.)	Adjust for maximum output. Repeat steps (42) and (43).
SW7-RF ALIGNMENT						
14)	SW7	"	17.5 MHz [11mm ($\frac{1}{8}$ ")]	"	L ₅₆ (SW7 OSC Coil) * L ₅₅ (SW7 DET Coil) L ₅₄ (SW7 ANT Coil) (Refer to fig. 57.)	Refer to note 2. Adjust for maximum output.
15)	SW7	"	18.5 MHz [141mm ($5\frac{5}{8}$ ")]	"	C ₁₈₉ (SW7 DET Trimmer) C ₁₈₈ (SW7 ANT Trimmer) (Refer to fig. 57.)	Adjust for maximum output. Repeat steps (44) and (45).
SW8-RF ALIGNMENT						
16)	SW8	"	21 MHz [11mm ($\frac{1}{8}$ ")]	"	L ₅₈ (SW8 OSC Coil) * L ₅₈ (SW8 DET Coil) L ₅₇ (SW8 ANT Coil) (Refer to fig. 58.)	Refer to note 2. Adjust for maximum output.

■ ALIGNMENT POINTS

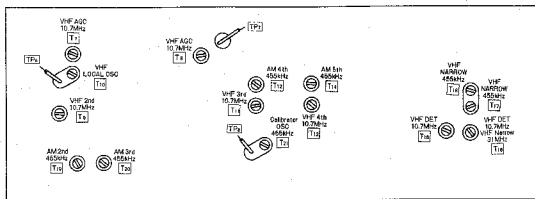


Fig. 37

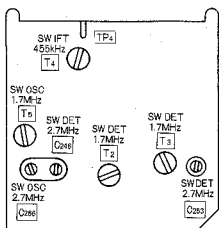


Fig. 38

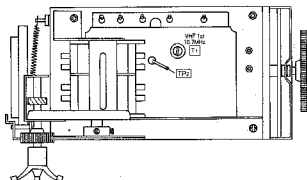


Fig. 40

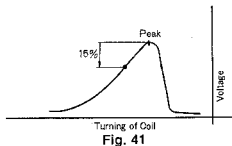


Fig. 41

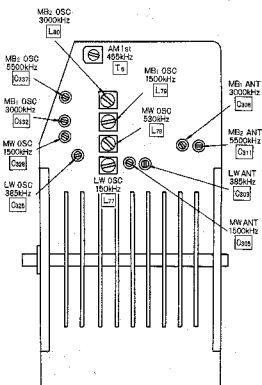


Fig. 39

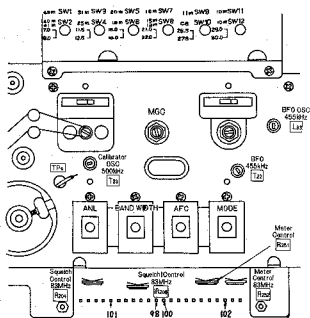


Fig. 42

■ ALIGNMENT POINTS

•VHF1

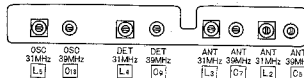


Fig. 43

•VHF2

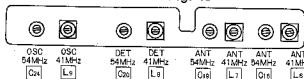


Fig. 44

•VHF3

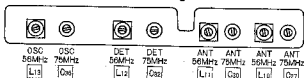


Fig. 45

•VHF 4

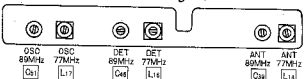


Fig. 46

•VHF5

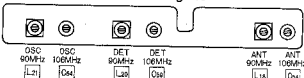


Fig. 47

•VHF6

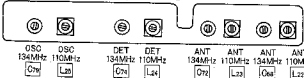


Fig. 48

•VHF7

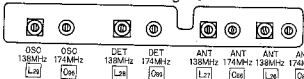


Fig. 49

•VHF8

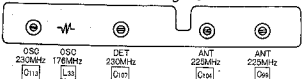


Fig. 50

•SW1

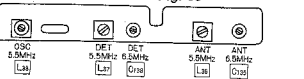


Fig. 51

•SW2

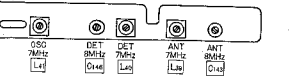


Fig. 52

•SW3

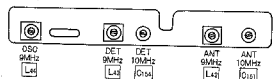


Fig. 53

•SW4

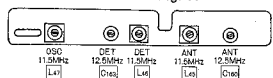


Fig. 54

•SW5

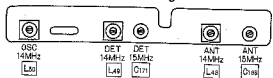


Fig. 55

•SW6

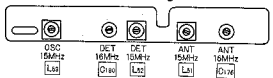


Fig. 56

•SW7

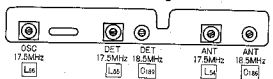


Fig. 57

•SW8

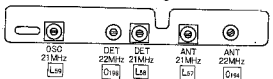


Fig. 58

•SW9

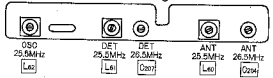


Fig. 59

•SW10

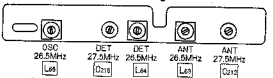


Fig. 60

•SW11

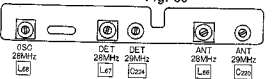


Fig. 61

•SW12

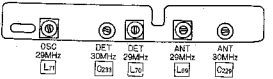


Fig. 62

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING [DISTANCE]	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
SW8-RF ALIGNMENT						
SW8	Connect to the SW/750 terminal. (Refer to fig. 36.)	22 MHz	22 MHz [141mm($5\frac{5}{8}$ ")]	Output meter across voice coil.	C198 (SW8 DET Trimmer) C194 (SW8 ANT Trimmer) (Refer to fig. 58.)	Adjust for maximum output. Repeat steps (46) and (47).
SW9-RF ALIGNMENT						
SW9	"	25.5 MHz	25.5 MHz [11mm($\frac{7}{8}$ ")]	"	L62 (SW9 OSC Coil) * L61 (SW9 DET Coil) L60 (SW9 ANT Coil) (Refer to fig. 59.)	Refer to note 2. Adjust for maximum output.
SW9	"	26.5 MHz	26.5 MHz [141mm($5\frac{5}{8}$ ")]	"	C207 (SW9 DET Trimmer) C204 (SW9 ANT Trimmer) (Refer to fig. 59.)	Adjust for maximum output. Repeat steps (48) and (49).
SW10-RF ALIGNMENT						
SW10	"	26.5 MHz	26.5 MHz [11mm($\frac{7}{8}$ ")]	"	L85 (SW10 OSC Coil) * L84 (SW10 DET Coil) L83 (SW10 ANT Coil) (Refer to fig. 60.)	Refer to note 2. Adjust for maximum output.
SW10	"	27.5 MHz	27.5 MHz [141mm($5\frac{5}{8}$ ")]	"	C215 (SW10 DET Trimmer) C212 (SW10 ANT Trimmer) (Refer to fig. 60.)	Adjust for maximum output. Repeat steps (50) and (51).
SW11-RF ALIGNMENT						
SW11	"	28 MHz	28 MHz [11mm($\frac{7}{8}$ ")]	"	L88 (SW11 OSC Coil) * L87 (SW11 DET Coil) L86 (SW11 ANT Coil) (Refer to fig. 61.)	Refer to note 2. Adjust for maximum output.
SW11	"	29 MHz	29 MHz [141mm($5\frac{5}{8}$ ")]	"	C224 (SW11 DET Trimmer) C220 (SW11 ANT Trimmer) (Refer to fig. 61.)	Adjust for maximum output. Repeat steps (52) and (53).
SW12-RF ALIGNMENT						
SW12	"	29 MHz	29 MHz [11mm($\frac{7}{8}$ ")]	"	L71 (SW12 OSC Coil) * L70 (SW12 DET Coil) L69 (SW12 ANT Coil) (Refer to fig. 62.)	Refer to note 2. Adjust for maximum output.
SW12	"	30 MHz	30 MHz [141mm($5\frac{5}{8}$ ")]	"	C233 (SW12 DET Trimmer) C225 (SW12 ANT Trimmer) (Refer to fig. 62.)	Adjust for maximum output. Repeat steps (54) and (55).

6-11 SQUELCH ALIGNMENT

(56)	VHF4	Connect to the VHF/750 terminal through dummy antenna. (Refer to fig. 35,36.)	83 MHz 30% Mod. with 400 Hz 15 dB	Tune to signal.	R206 (Squelch Control) (Refer to fig. 42.)	Set R204 to the center. Adjust R206 so that the squelch will function.
(57)	VHF4	"	"	"	R204 (Squelch Control) (Refer to fig. 42.)	If the squelch doesn't function even with the squelch VR located at about center, adjust R204 so that it will. Confirm that the squelch functions on all bands (VHF1~VHF6).

6-12 LW-RF ALIGNMENT

Note: Connect earth lead wire of frame antenna jack to chassis before alignment.

(58)	LW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	150 kHz	150 kHz [15mm($\frac{9}{16}$ ")]	Output meter across voice coil.	L77 (LW OSC Coil) L73 (LW ANT Coil) (Refer to figs. 39, 63.)	Adjust for maximum output.
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BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	FREQUENCY	RADIO DIAL SETTING [DISTANCE]	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS
LW-RF ALIGNMENT						
(59) LW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	385 kHz	385 kHz [139mm(5 $\frac{3}{8}$ ")]	Output meter across voice coil.	C325 (LW OSC Trimmer) C303 (LW ANT Trimmer) (Refer to fig. 39.)	Adjust for maximum output. Repeat steps (58) and (59).
MW-RF ALIGNMENT						
(60) MW	"	530 kHz	530 kHz [8mm($\frac{1}{4}$ ")]	"	L74 (MW OSC Coil) L74 (MW ANT Coil) (Refer to figs. 39, 64.)	Adjust for maximum output.
(61) MW	"	1500 kHz	1500 kHz [139mm(5 $\frac{3}{8}$ ")]	"	C326 (MW OSC Trimmer) C306 (MW ANT Trimmer) (Refer to fig. 39.)	Adjust for maximum output. Repeat steps (60) and (61).
MB1-RF ALIGNMENT						
(62) MB1	"	1500 kHz	1500 kHz [13mm($\frac{1}{2}$ ")]	"	L75 (MB1 OSC Coil) L75 (MB1 ANT Coil) (Refer to figs. 39, 65.)	Adjust for maximum output.
(63) MB1	"	3000 kHz	3000 kHz [143mm(5 $\frac{7}{8}$ ")]	"	C322 (MB1 OSC Trimmer) C308 (MB1 ANT Trimmer) (Refer to fig. 39.)	Adjust for maximum output. Repeat steps (62) and (63).
MB2-RF ALIGNMENT						
(64) MB2	"	3000 kHz	3000 kHz [12mm($\frac{1}{2}$ ")]	"	L80 (MB2 OSC Coil) L76 (MB2 ANT Coil) (Refer to fig. 39, 65.)	Adjust for maximum output.
(65) MB2	"	5500 kHz	5500 kHz [142mm(5 $\frac{7}{8}$ ")]	"	C327 (MB2 OSC Trimmer) C311 (MB2 ANT Trimmer) (Refer to fig. 39.)	Adjust for maximum output. Repeat steps (64) and (65).

6-13 TUNING METER ALIGNMENT

(66) MW	"	1000 kHz (74 dB/m)	Tune to signal.	R252 (Meter Control) (Refer to fig. 42.)	Adjust R252 so that the indication needle is at the position shown in figure 66.
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6-14 BATTERY CHECK ALIGNMENT

RADIO SETTING	ADJUSTMENT	REMARKS
(67)	R251 (Meter Control) (Refer to fig. 42.)	Adjust R251 so that the indication needle is at the position shown in fig. 67. Note that when the DC power source is disconnected, the meter needle won't fluctuate.

■ ALIGNMENT POINTS



Fig. 63

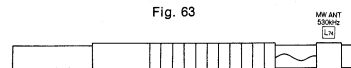


Fig. 64

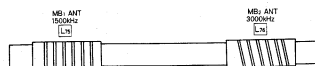


Fig. 65

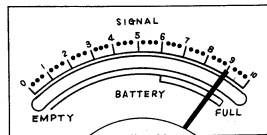


Fig. 66

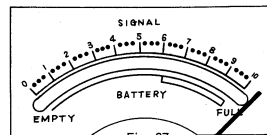
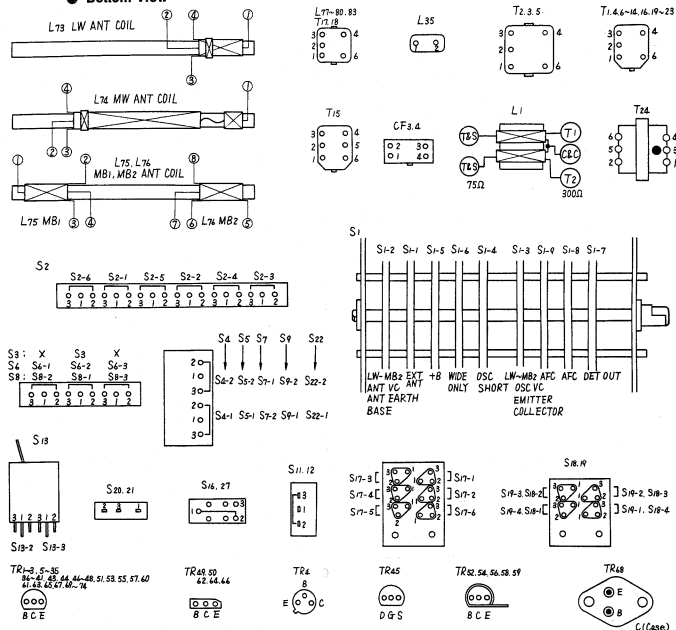


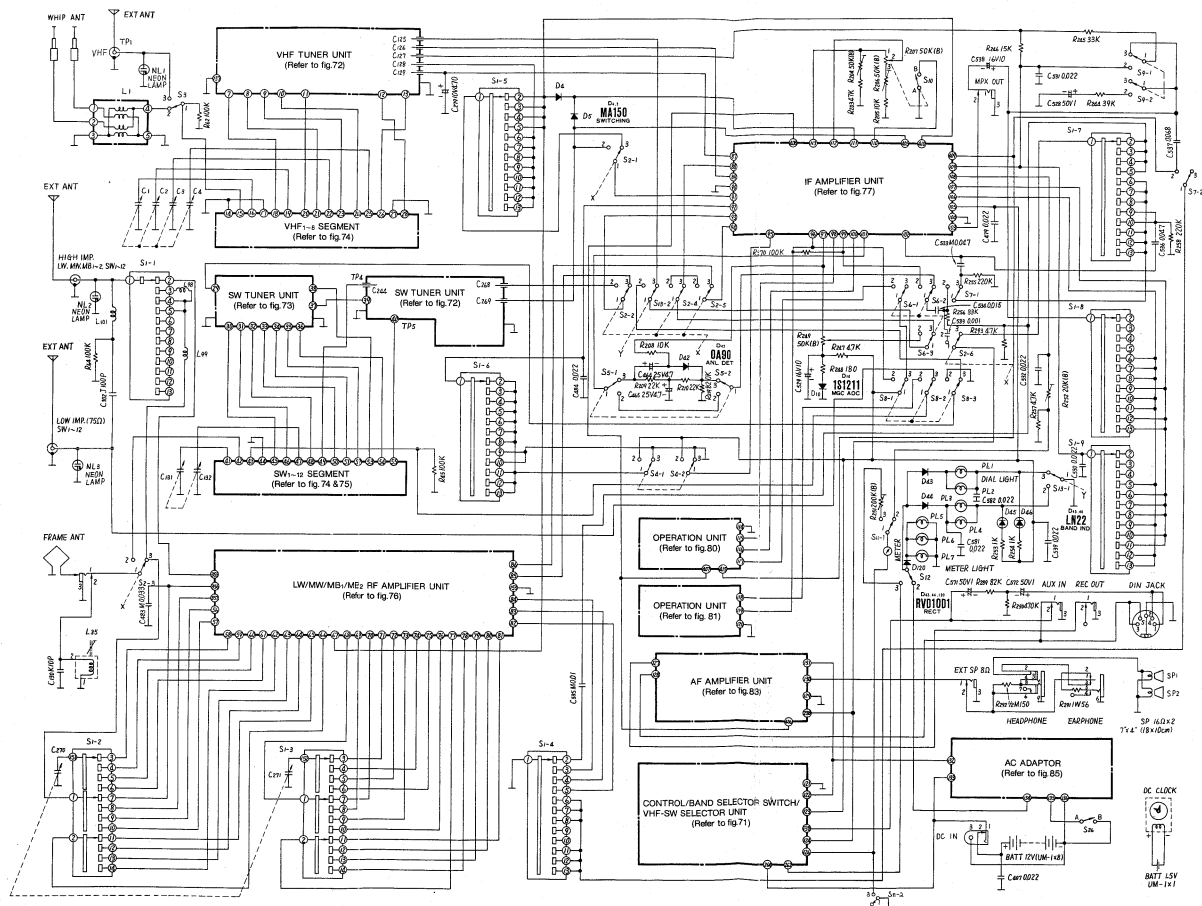
Fig. 67

7. SCHEMATIC DIAGRAM AND CIRCUIT BOARD WIRING VIEW

● Bottom View



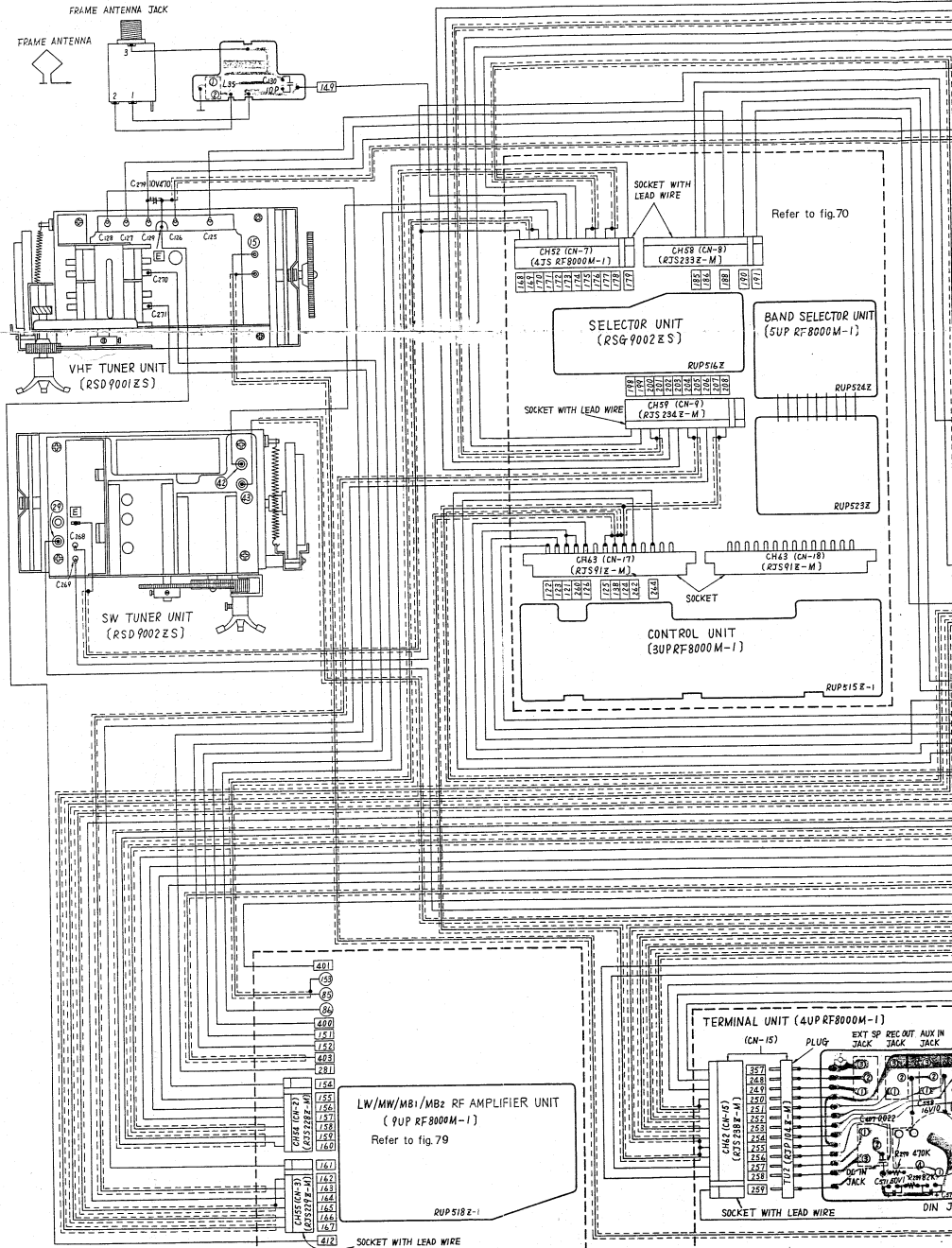
7-1 GENERAL SCHEMATIC DIAGRAM—MODEL RF-8000



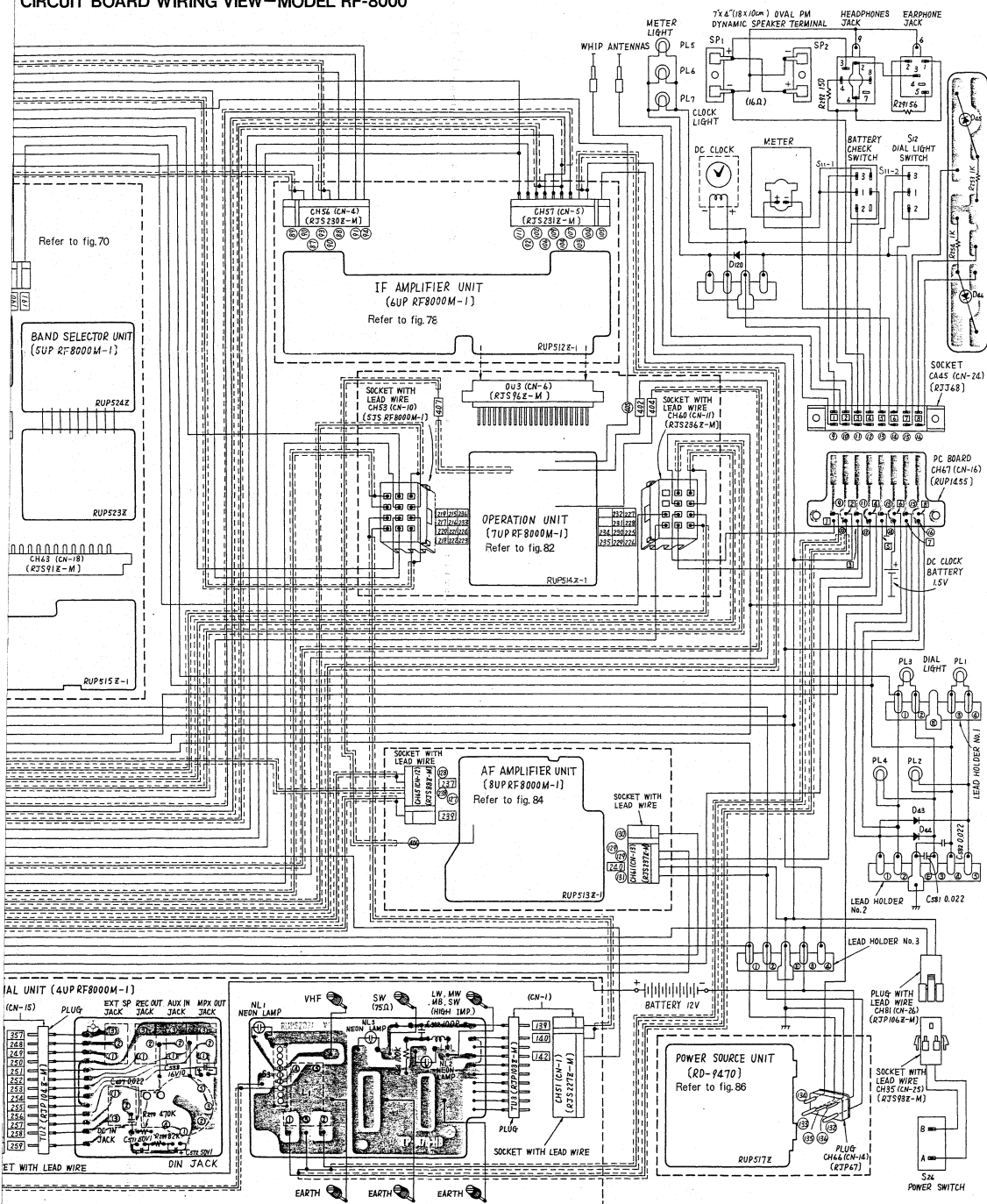
Notes:

1. S1-1, S1-4~S1-9: Band selector in "LW BAND" position.
2. LW BAND 6. VHF1 BAND 10. VHF5 BAND 3. MW BAND 7. VHF2 BAND 11. VHF6 BAND 4. MB1 BAND 8. VHF3 BAND 12. VHF7 BAND 5. MB2 BAND 9. VHF4 BAND 13. VHF8 BAND
2. S1-2~S1-3: Band selector in "LW BAND" position.
- 3, 7, 11. LW BAND 5, 9, 13. MB1 BAND 4, 8, 12. MW BAND 6, 10, 14. MB2 BAND
3. S2-1~S2-6: Tuner selector (VHF Tuner, LW~MB2 BAND-SW Tuner) in "VHF Tuner LW~MB2 BAND" position.
4. S3: Antenna selector (INT-EXT) in "INT" position.
5. S3-1~S3-2: Band width selector (WIDE~NARROW) in "WIDE" position.
6. S3-1~S3-2: ANL switch (ON-OFF) in "ON" position.
7. S3-1~S3-2: AM mode selector (CW, SSB-AM) in "AM" position.
8. S3-1~S3-2: VHF mode selector (FM-AM) in "FM" position.
9. S3-1~S3-2: Calibration switch (ON-OFF) in "ON" position.
10. S3-1~S3-2: AFC switch (ON-OFF) in "ON" position.
11. S3-1~S3-2: Squelch switch (ON-OFF) in "ON" position.
12. S1-1, S1-2: Battery check selector (BATTERY-SIGNAL METER) in "SIGNAL METER" position.
13. S1-3: Dial light switch (ON-OFF) in "OFF" position.
14. S1-1~S1-2: Dial light selector (VHF Tuner, LW~MB2 BAND-SW Tuner) in "VHF Tuner" position.
15. S3-1: DIN selector (DIN-TUNER, AUX) in "DIN" position.
16. S3-2: Power switch (ON-OFF) in "OFF" position.

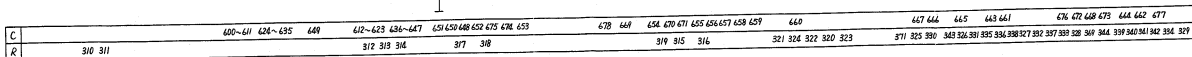
Fig. 68



CIRCUIT BOARD WIRING VIEW—MODEL RF-8000



7-2 SCHEMATIC DIAGRAM-CONTROL/BAND SELECTOR/VHF-SW SELECTOR UNIT

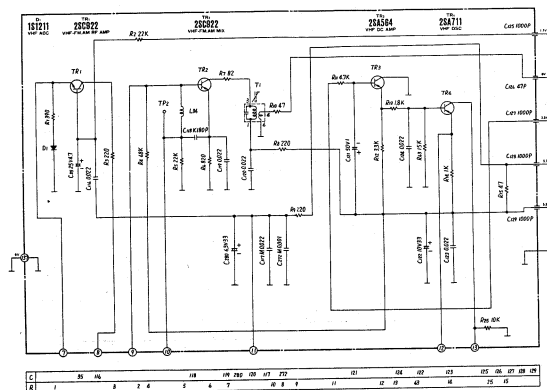


6. S₁₉₋₁~S₁₉₋₄: Motor switch (ON-OFF) in "OFF" position.
7. S₂₀: Motor stop switch (ON-OFF) in "ON" position.
8. S₂₁: Motor stop switch (ON-OFF) in "ON" position.
9. S₂₇: SW Tuner discharge switch (ON-OFF) in "OFF" position.
10. S₂₈-S₅₁: 24-BAND selector (ON-OFF) in "OFF" position.

11. DC voltage measurements are taken with circuit tester 10k Ω /V from chassis. (Supply DC 12V from the EXT. DC terminal.)
TR72.....AC position.

Fig. 71

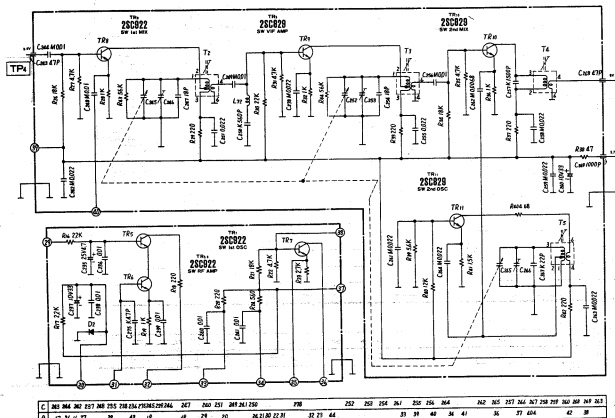
7-3 SCHEMATIC DIAGRAM—VHF TUNER UNIT



Note:
DC voltage measurements are taken with circuit tester 10ka/V
from chassis. (Supply DC 12V from the EXT. DC terminal.)

Fig. 72

7-4 SCHEMATIC DIAGRAM—SW TUNER UNIT



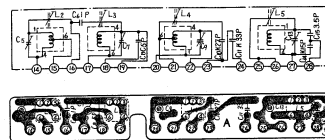
Note:
DC voltage measurements are taken with circuit tester 10ka/V
from chassis. (Supply DC 12V from the EXT. DC terminal.)

Fig. 73

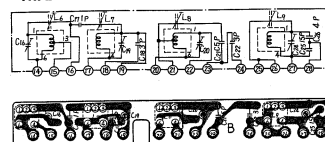


7-5 SCHEMATIC DIAGRAM AND CIRCUIT BOARD WIRING VIEW—VHF & SW SEGMENTS

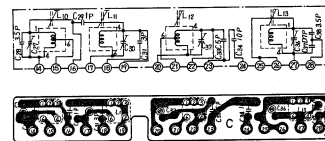
• VHF1



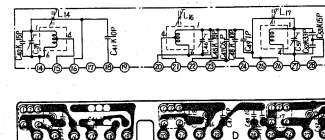
• VHF2



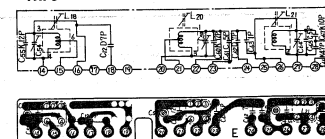
• VHF3



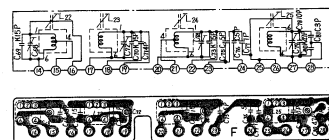
• VHF 4



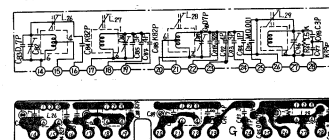
• VHF5



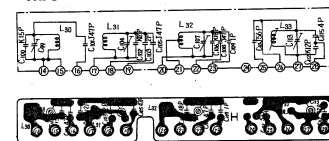
• VHF6



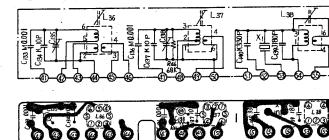
• VHF7



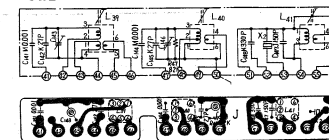
• VHF8

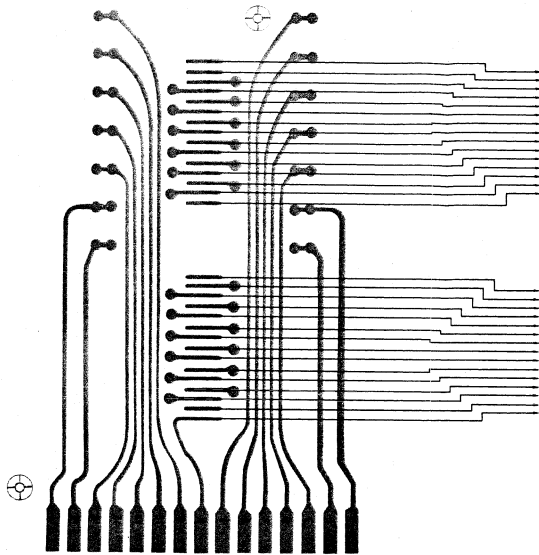


• SW1



• SW2





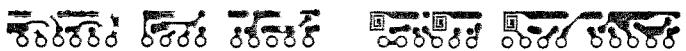
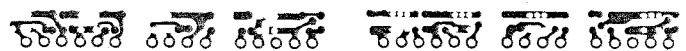


Fig. 74



Fig. 75

7-8 CIRCUIT BOARD WIRING VIEW-IF AMPLIFIER UNIT

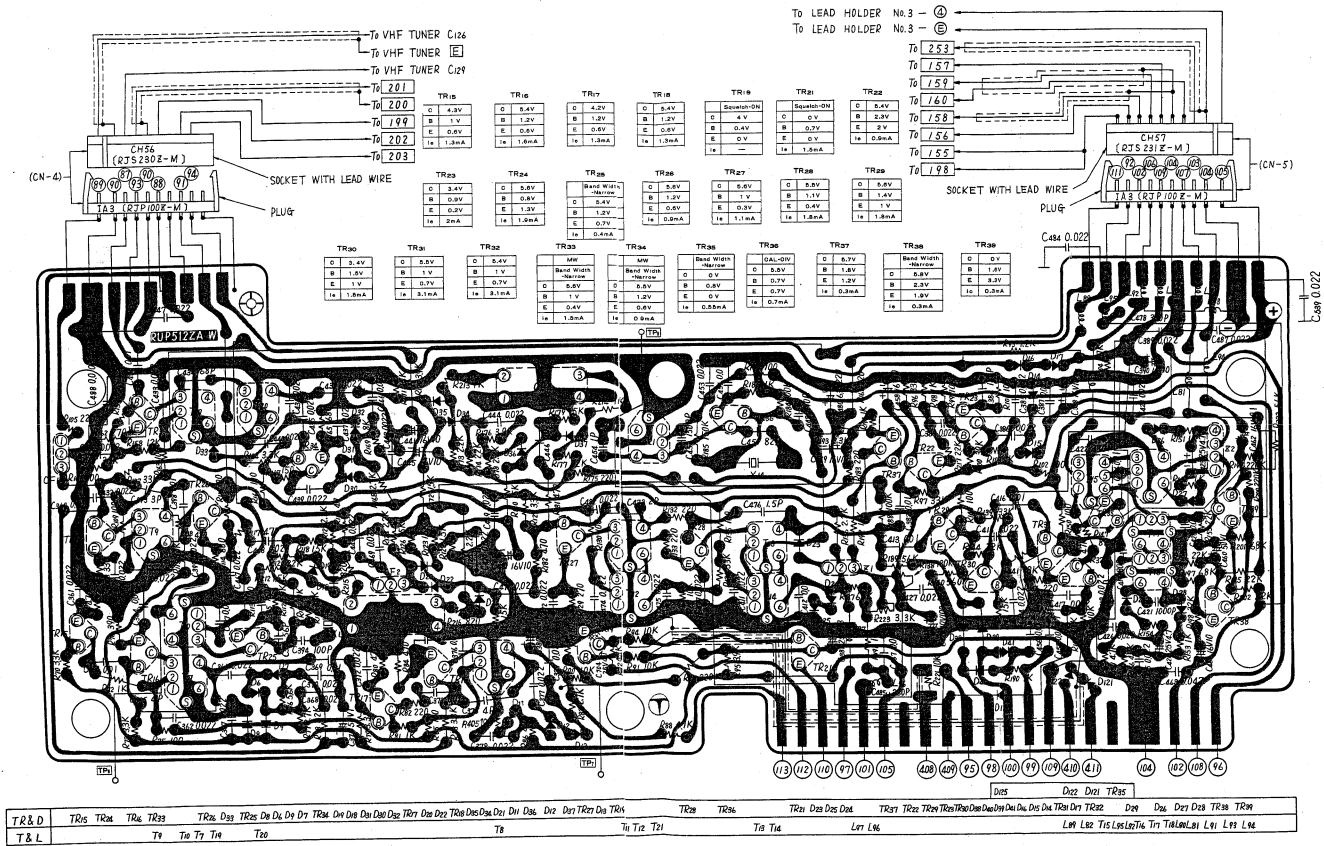


Fig. 78

RF-8000 35

[illegible]

Fig. 80

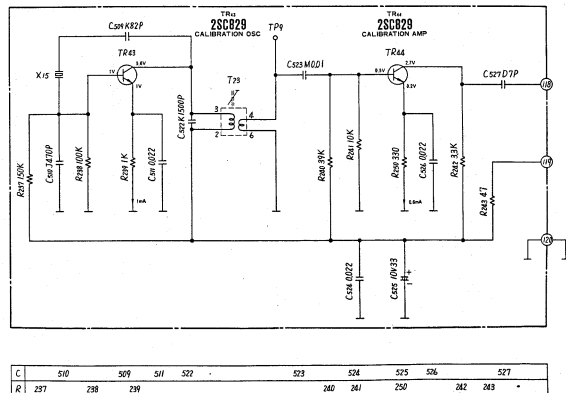


Fig. 81



RF-8000 31

32 RF-8000

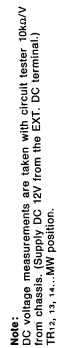
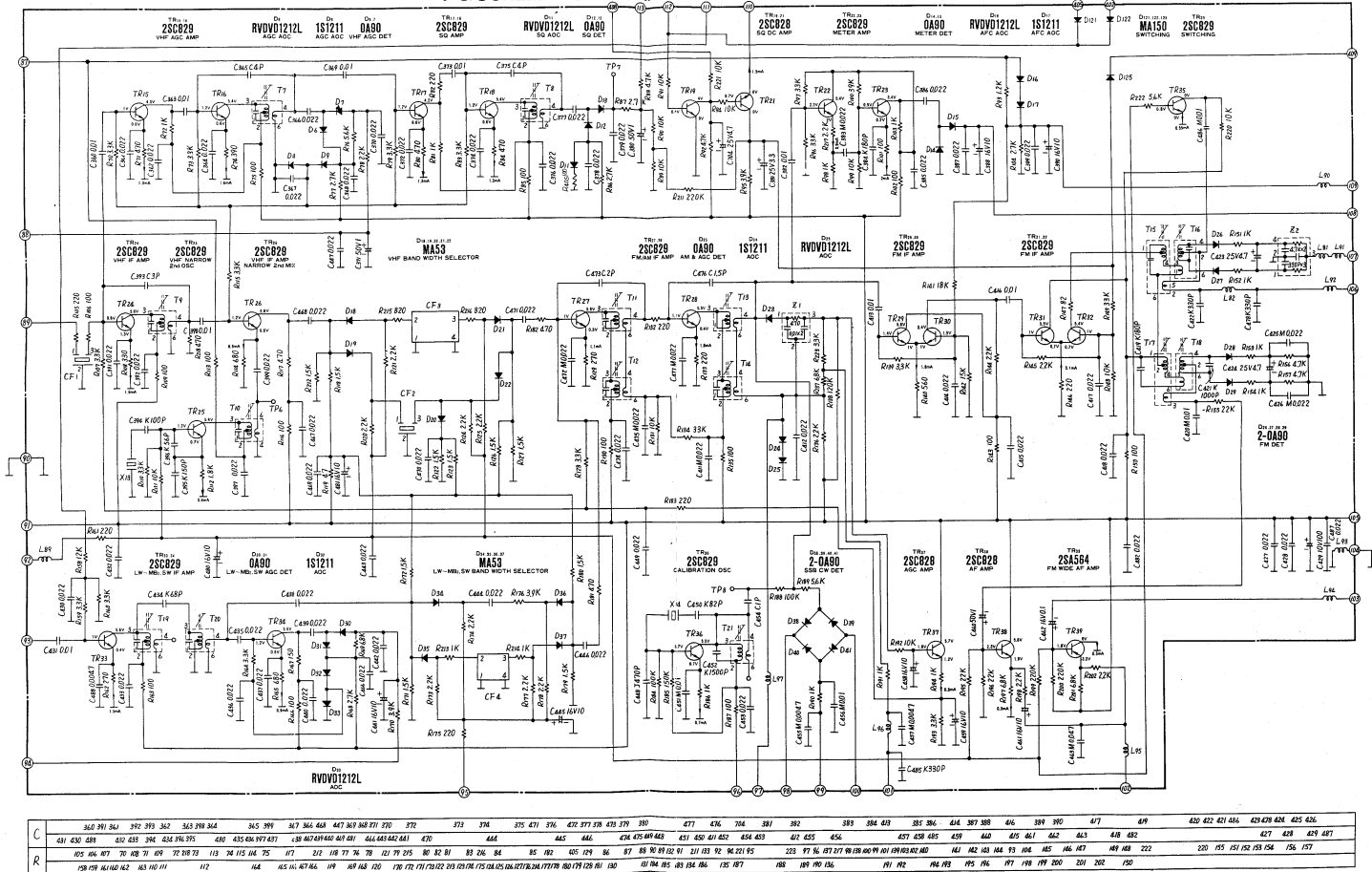


Fig. 76

7-8 SCHEMATIC DIAGRAM—IF AMPLIFIER UNIT



Note :

DC voltage measurements are taken with circuit tester 10k Ω /V from chassis. (Supply DC 12V from the EXT. DC terminal.)
TR₁₉, 21... Squelch control in "ON" position.

TR33, 34...MW position.

TR_{35, 38}... Band Width Switch in "Narrow" position.

TR36.....CAL switch in "ON" position.

Fig. 77

7-9 CIRCUIT BOARD WIRING VIEW—OPERATION UNIT

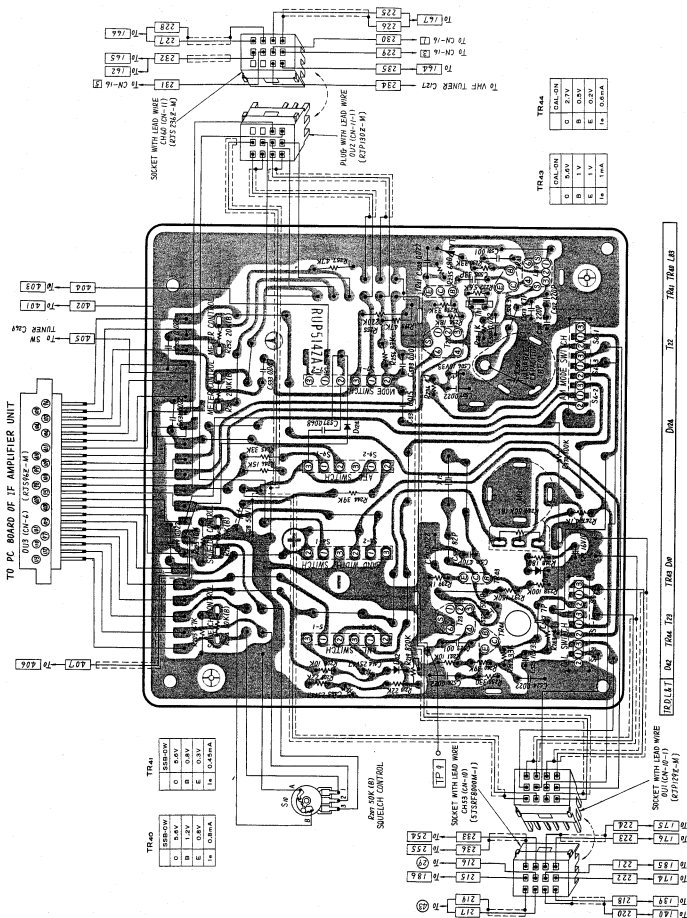


Fig. 82

7-10 CIRCUIT BOARD WIRING VIEW—AF AMPLIFIER UNIT

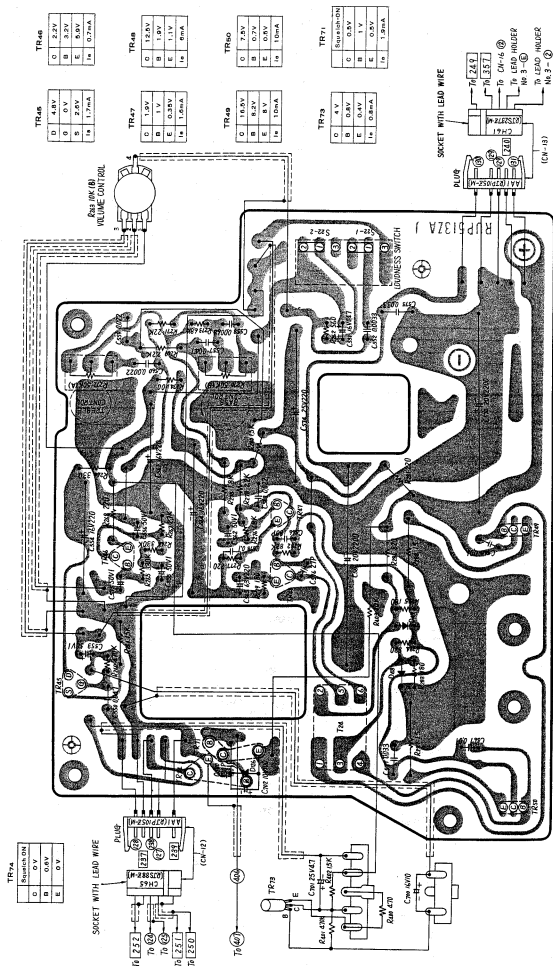
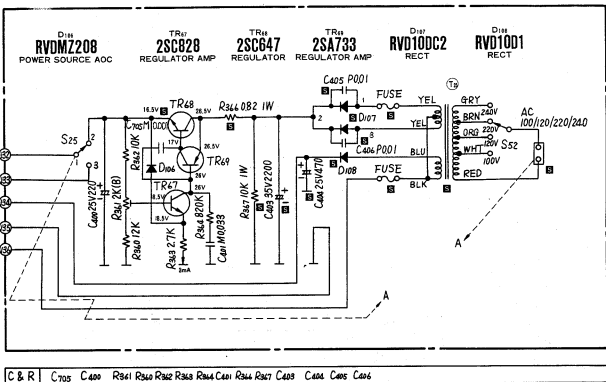


Fig. 84

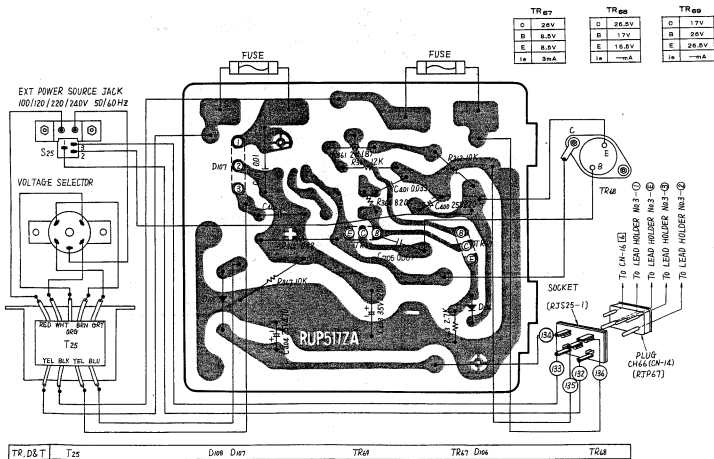
7-11 SCHEMATIC DIAGRAM AND CIRCUIT BOARD WIRING VIEW—AC ADAPTOR



Notes:

- Notes:**
1. S2s: Power source selector (AC-BATTERY) in "BATTERY" position.
 2. S2s: Voltage selector in "220V" position.
 3. DC voltage measurements are taken with circuit tester 10kV/V from chassis. (Supply DC 12V from the EXT. DC terminal.)

Fig. 85



■ CHASSIS (Rear View)

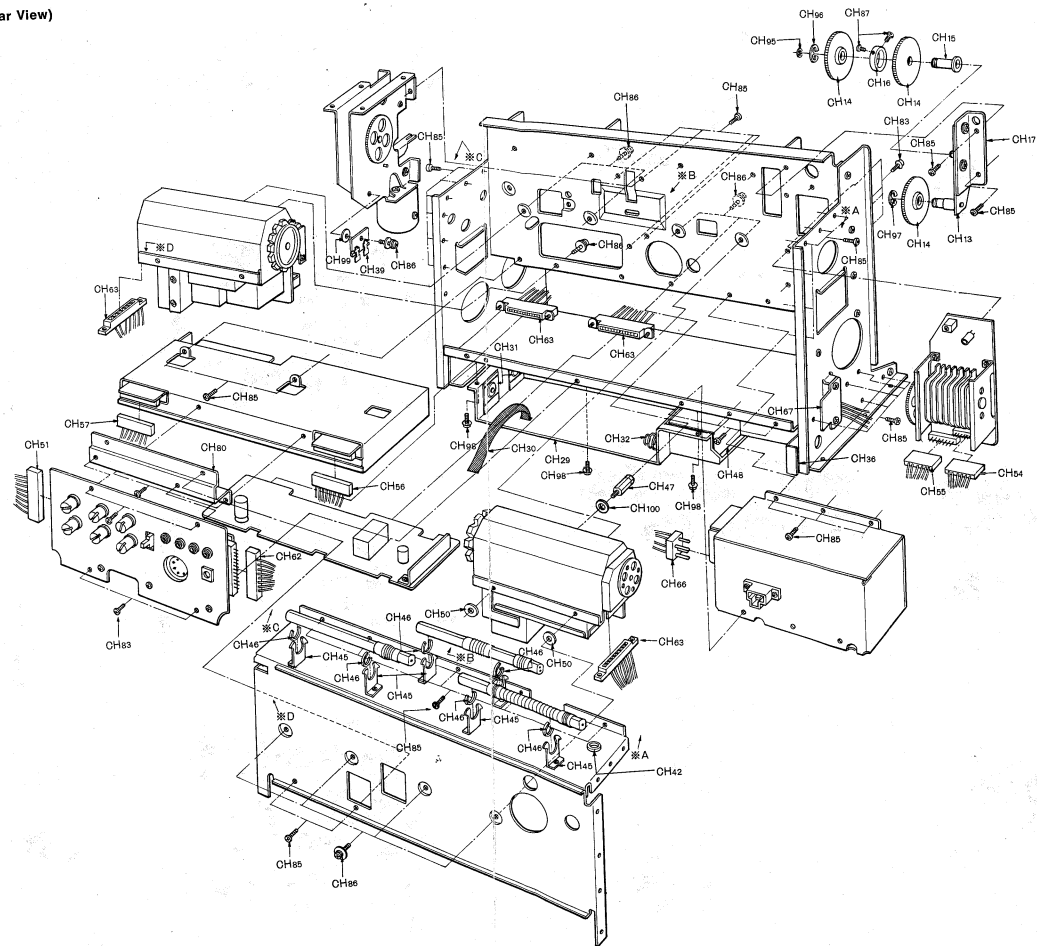
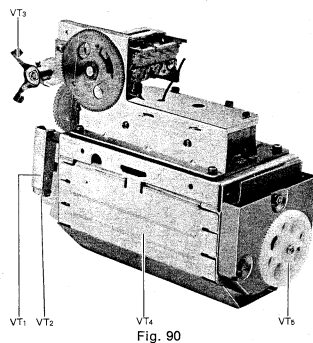
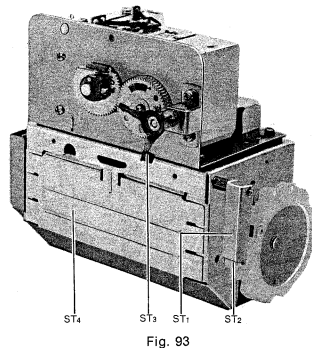


Fig. 89

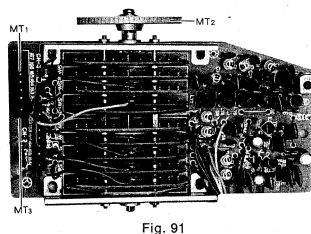
■ VHF TUNER UNIT



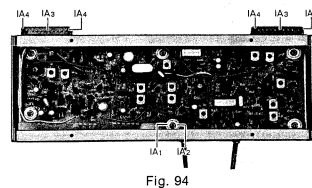
■ SW TUNER UNIT



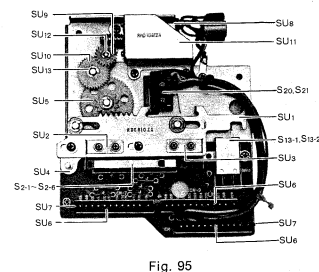
■ LW/MW/MB1/MB2 RF AMPLIFIER UNIT



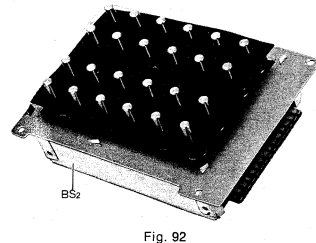
■ IF AMPLIFIER UNIT



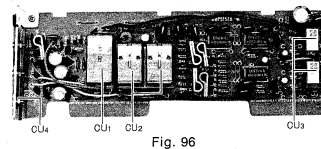
■ VHF-SW SELECTOR UNIT



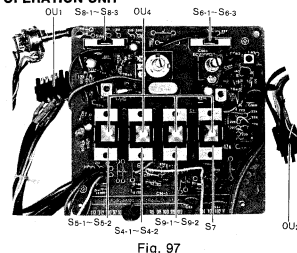
■ BAND SELECTOR UNIT



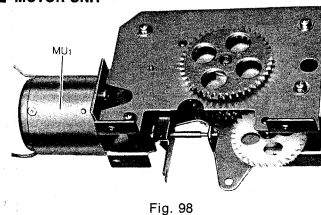
■ CONTROL UNIT



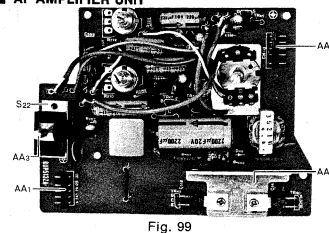
■ OPERATION UNIT



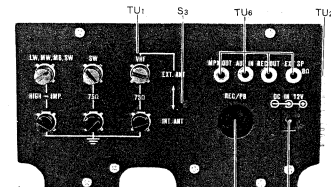
■ MOTOR UNIT



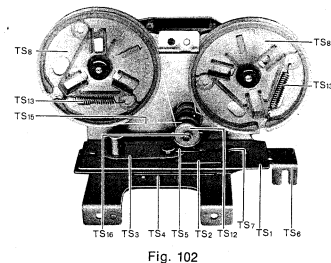
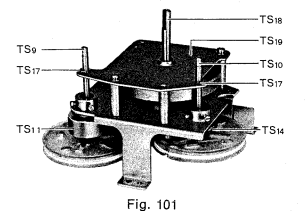
■ AF AMPLIFIER UNIT



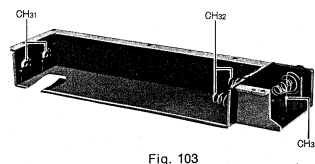
■ TERMINAL UNIT



■ TUNING SHAFT UNIT



■ BATTERY CASE ASSEMBLY



8. PARTS LOCATIONS

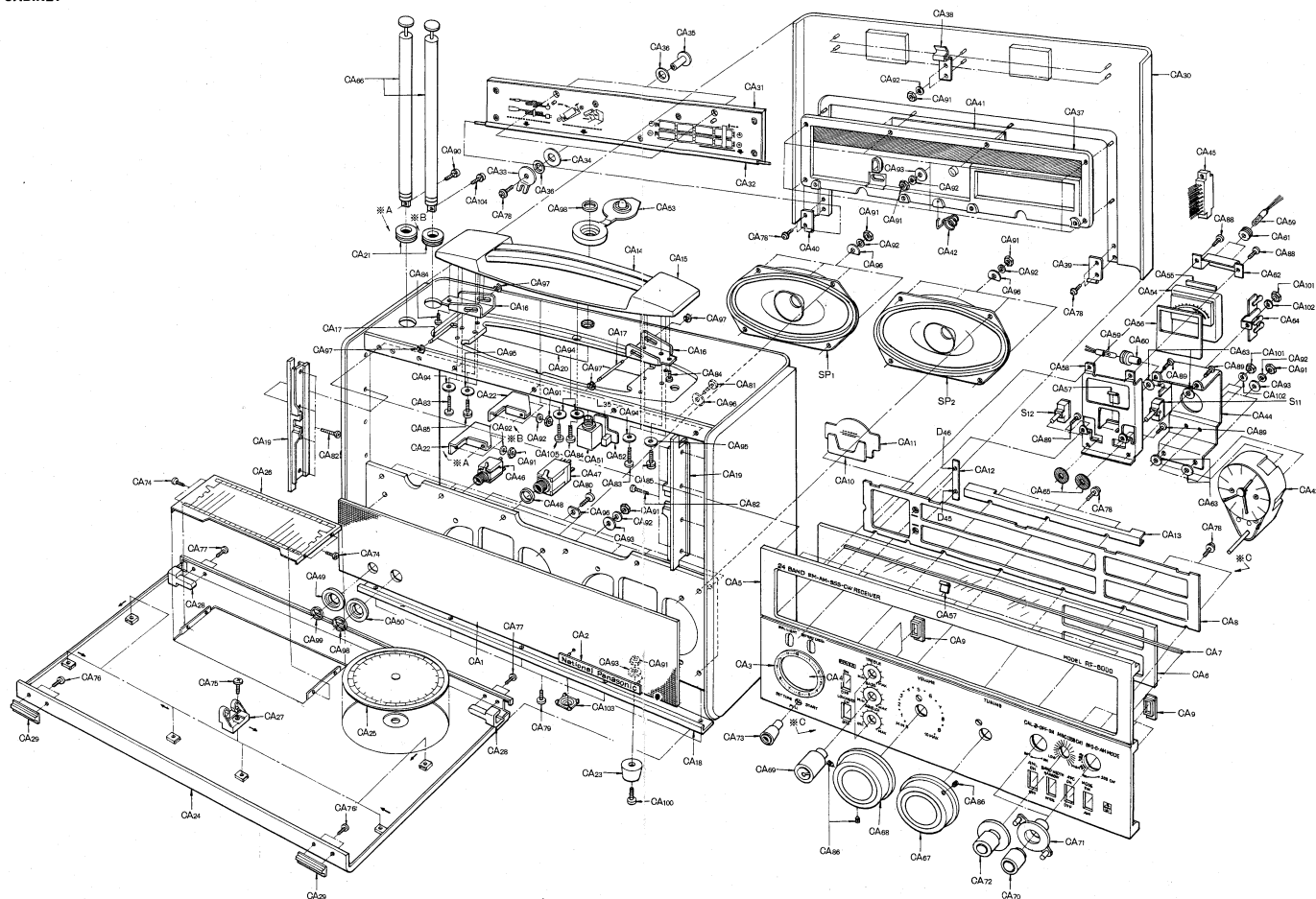


Fig. 87

■ CHASSIS (Front View)

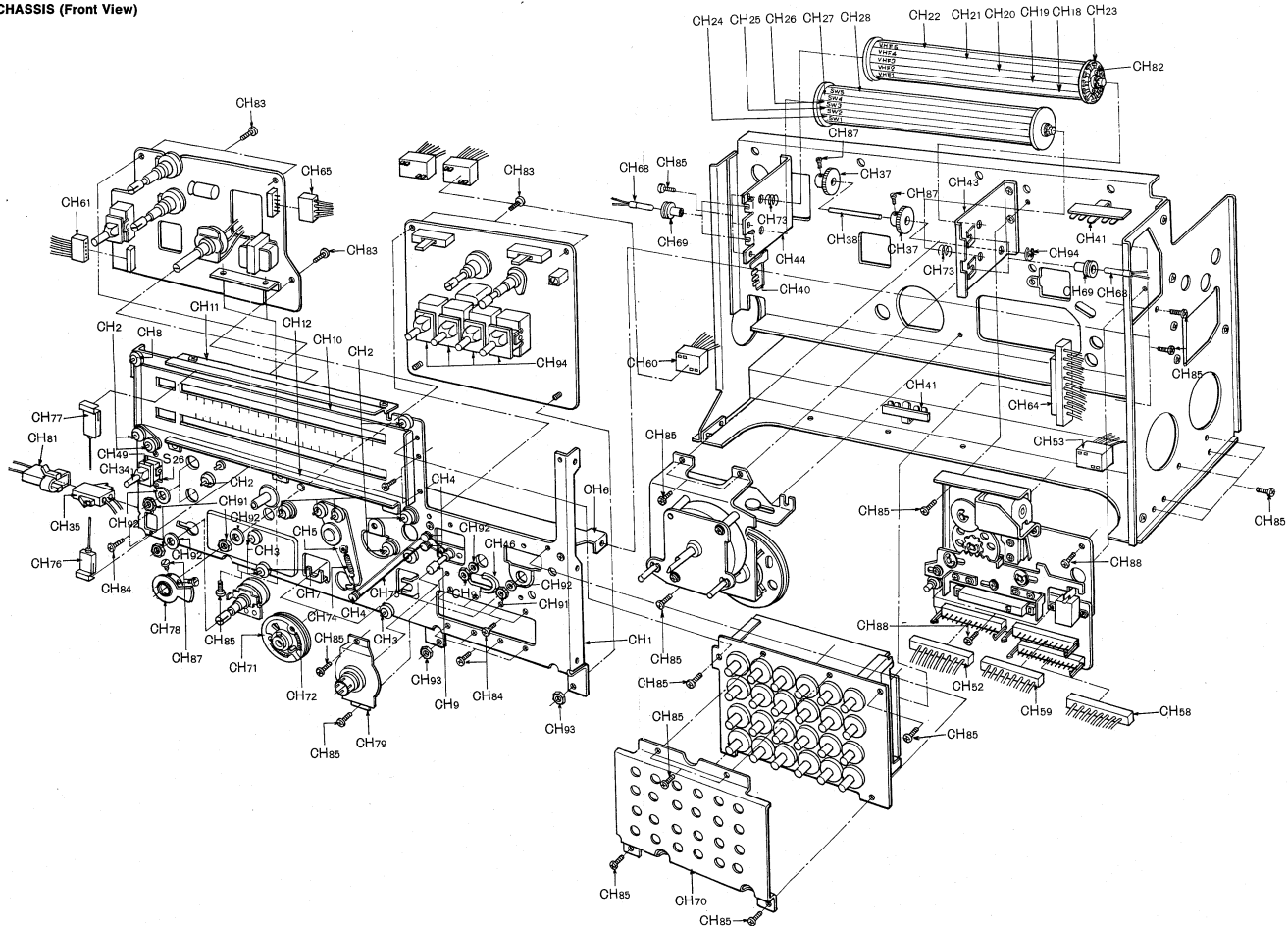


Fig. 88

■ FRAME ANTENNA UNIT

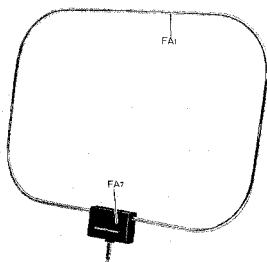


Fig. 104

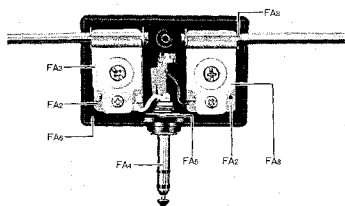


Fig. 105

■ AC ADAPTOR

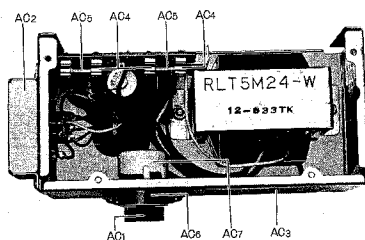


Fig. 106

9. PACKING MATERIALS

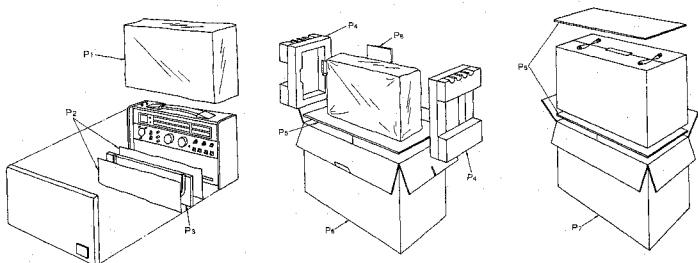


Fig. 107

NOTES : 1 Part numbers are indicated on most mechanical parts.
Please use this part number for parts orders.
2 **XXXX** Indicates, for safety reasons, that only parts specified in service manual be used for replacement.

10-1 VHF TUNER UNIT (RSD9001ZS)

Ret. No.		Part No.	Part Name & Description (For parts locations, refer to fig.90.)	Per Set	Remarks
VT1 VT2 VT3 VT4 VT5	RSD9001ZS	1SD9001ZS	VHF Tuner Unit	1	O Z
		AB & C	Segment Assembly (VHF1,2,3), PC Board	1	O Z
		2SD9001ZS	Segment Assembly (VHF4,5,6), PC Board	1	O Z
		3SD9001ZS	Segment Assembly (VHF7,8), PC Board & H	1	O Z
		8SD9001ZS	Segment Assembly, without PC Board	1	O Z
VT1 VT2 VT3 VT4 VT5	RUB88Z	RUB88Z	Stopper	1	O Z
	RDR18Z	RDR18Z	Roller, Stopper	1	O Z
	RDS424	RDS424	Spring, Stopper	1	O Z
	XUC2FW-V	XUC2FW-V	E Ring, Stopper M'tg	1	O Z
	RUB9001ZS	RUB9001ZS	Center Dial Drum	1	O Z
VT1 VT2	RUB9001ZS	RUB9001ZS	Control Segment	1	O Z
	RUB9001ZS	RUB9001ZS	Gear (Plastic)	1	O Z

10-2 SW TUNER UNIT (RSD9002ZS)

Ret. No.		Part No.	Part Name & Description (For parts locations, refer to fig.91.)	Per Set	Remarks
ST1 ST2 ST3 ST4	RSD9002ZS	4SD9002ZS	SW Tuner Unit	1	O Z
		LI & K	Segment Assembly (SW1,2,3), PC Board	1	O Z
		5SD9002ZS	Segment Assembly (SW4,5,6), PC Board	1	O Z
		6SD9002ZS	Segment Assembly (SW7,8,9), PC Board	1	O Z
		7SD9002ZS	Segment Assembly (SW10,11,12), PC Board	1	O Z
ST1 ST2 ST3 ST4	RUB90Z	RUB90Z	Stopper	1	O Z
	RDR18Z	RDR18Z	Roller, Stopper	1	O Z
	RDS424	RDS424	Spring, Stopper	1	O Z
	XUC2FW-V	XUC2FW-V	E Ring, Stopper M'tg	1	O Z
	RUB9001ZS	RUB9001ZS	Lever, Dial Drum	1	O Z
ST1 ST2	RUB9001ZS	RUB9001ZS	Control Segment	1	O Z
	RUB9001ZS	RUB9001ZS	Gear, Segment	1	O Z

10-3 LW-MW-MB1-MB2 RF AMPLIFIER UNIT (9UPRF8000M-1)

Ret. No.		Part No.	Part Name & Description (For parts locations, refer to fig.91.)	Per Set	Remarks
TR121314 D3 D4	9UPRF8000M-1	8UPRF8000M-1	LW-MW-MB1-MB2 RF Amplifier Unit	1	O Z
			TRANSISTORS AND DIODES		
		250829	LW-MB2 RF Amplifier, LW-MB2 Converter	3	X
		RVOKB205.13	Operation Compensator	1	X
		MA150	Switching	1	X

Ret. No.	Part No.	Part Name & Description	Per Set	Remarks
COILS AND TRANSFORMERS				
L77	RL01B1-T	LW Oscillator Coil	1	O X
L78	RL02B96-T	MW Oscillator Coil	1	O X
L79	RL03B78-T	MB1 Oscillator Coil	1	O X
L80	RL03B79-T	MB2 Oscillator Coil	1	O X
L88	RL0X121-I	Choke Coil	1	Y
L98,99	RL0Z470Z-Y	Choke Coil	2	Y
T6	RL2M223	1st AM IF Transformer	1	X
VARIABLE CAPACITORS				
C303,305,308,311,325,328,332,337	ECV12W20X6I	Trimmer	8	O Y
RESISTORS				
R57	ERD18T1470	470, 1/4 Watt, J-5%, Carbon	1	Z
R53	ERD18V1101	1000, 1/4 Watt, J-5%, Carbon	1	Z
R04,59,60	ERD18V1221	2200, 1/4 Watt, J-5%, Carbon	3	Z
R51,68	ERD18V1102	1K0, 1/4 Watt, J-5%, Carbon	2	Z
R50,52	ERD18V1222	2K0, 1/4 Watt, J-5%, Carbon	2	Z
R65	ERD18V1352	3.5K0, 1/4 Watt, J-5%, Carbon	1	Z
R66	ERD18V1353	3.5K0, 1/4 Watt, J-5%, Carbon	1	Z
R67	ERD18V1353	3.5K0, 1/4 Watt, J-5%, Carbon	1	Z
R68	ERD18V1353	3.5K0, 1/4 Watt, J-5%, Carbon	1	Z
R208	ERD18T1224	220K0, 1/4 Watt, J-5%, Carbon	1	Z
CAPACITORS				
C306	ECG01H450C0	500V, ±0.250%, Ceramic	1	Z
C300,331,336	ECG01H150K0	150P, 500V, ±10%, Ceramic	3	Z
C327	ECG01H120K0	120P, 500V, ±10%, Ceramic	1	Z
C324	ECG01H500K0	500P, 500V, ±10%, Ceramic	1	Z
C307	ECG01H660K0	660P, 500V, ±10%, Ceramic	1	Z
C330	ECG01H680K0	680P, 500V, ±10%, Ceramic	1	Z
C310	ECG01H820K0	820P, 500V, ±10%, Ceramic	1	Z
C335	ECG01H101K	1000P, 500V, ±10%, Ceramic	1	Z
C312,317,319,322,330	EOKE1H223P	0.022µF, 500V, ±10%, Ceramic	5	Z
C323	EOG051161JZ	150P, 125WV, J-5%, Styrol	1	Z
C326	EOG051471JZ	470P, 125WV, J-5%, Styrol	1	Z
C339	EOG05152KZ	500P, 50WV, ±10%, Styrol	1	Z
C334	EOG05033KZ	3300P, 50WV, ±10%, Styrol	1	Z
C329	EOG050618KZ	1800P, 50WV, ±10%, Styrol	1	Z
C325	EOG050618KZ	1800P, 50WV, ±10%, Styrol	1	Z
C333	EOG050593MZ	0.015µF, 50WV, ±20%, Polyester	1	Z
C334	EOG050593MZ	0.015µF, 50WV, ±20%, Polyester	1	Z
C330,315,320,340	EOG050225MZ	0.022µF, 50WV, ±20%, Polyester	4	Z
C314,321,483	EOG0505333MZ	0.033µF, 50WV, ±20%, Polyester	3	Z

Ref. No.	Part No.	Part Name & Description	Part Sct	Remarks
C313	EEEA25V47	4.7 μ F, 25WV, Electrolytic	1	Y
C316	EEEA16V10	10 μ F, 16WV, Electrolytic	1	Y
C318	EEEA10V33	33 μ F, 10WV, Electrolytic	1	Y
C336	EQO06473MZ	0.047 μ F, 50WV, \pm 20%, Polyester	1	Z
C338	EQO065103MZ	0.01 μ F, 50WV, \pm 20%, Polyester	1	Z
MISCELLANEOUS				
MT1	RUP84A-M	Plug (7 pin), Socket (CN-23)	2	Y
MT2	RMD2021-Z	Bracket, PC Board	1	O
MT3	RDS9633Z	Gear, Antenna Selector	1	O
S11-S19	XYN3-16F	Screw, Gear M7g	4	Z
	RHR918A	Stopper, Plug	(1)	
	(Not Available Order)			
	[GUPRF8000M-1]			
10-4 IF AMPLIFIER UNIT [GUPRF8000M-1]				
(For parts locations, refer to fig 94.)				
	GUPRF8000M-1	IF Amplifier Unit	1	O
TRANSISTORS AND DIODES				
TR16,16,17,18	25CR29	VHF AGO Amplifier, SQ Amplifier, Meier Amplifier, VHF IF Amplifier, VHF Narrow 2nd Oscillator, VHF Narrow 2nd Mixer, FM & AM IF Amplifier, LW-MQ2 & SW IF Amplifier, Switching, Calibration Oscillator	19	X
22,23,24,25				
26,27,28,29				
30,31,32,33				
34,35,36				
TR19,21,27,28	25CR28	SQ DC Amplifier, AGC Amplifier, FM Amplifier	4	X
TR39	25A054	FM Wide AF Amplifier	1	X
O6,7,12,13,14	0A90	VHF AGO Detector, SQ Detector, Meter Detector, AM AGC & Detector, LW-MQ2 & SW AGC Detector	9	X
15,23,30,31				
O26,27,28,29	2-OA90	FM Detector, SSB & CW Detector	4Pair	X
38,39,40,41				
D8,17,24,32	15I211	Operation Compensator	4	X
D18,19,20,21	MA53	Band Width Selector	9	O
22,34,35,36,37				
D8,11,16,25,33	RVDVD121L	Operation Compensator	5	X
D121,122,125	MA150	Switching	3	X
CRYSTALS				
X13	RVCX10245M4R	VHF 2nd Local Oscillator	1	O
X14	RVCX2450N5R	Calibration Oscillator	1	O
CERAMIC FILTERS, COILS AND TRANSFORMERS				
OF1,2	RVFOF10M120R	Ceramic Filter	2	X
OF3	RLI72102-R	Ceramic Filter	1	X
OF4	EFOL455K12N	Ceramic Filter	1	X
L81,82	RLOX121-1	Choke Coil	2	O
W7,8,9,10	RLRM301	VHF AGO, 2nd VHF IF, VHF Local Oscillator	4	X

Ref. No.	Part No.	Part Name & Description	Part Sct	Remarks
T11,13	RL4M302	3rd, 4th VHF IF Transformer	2	X
T12,19,20	RL2M205	2nd, 3rd, 4th AM IF Transformer	3	X
T14	RL2M402	5th AM IF Transformer	1	X
T15	RL4M501	VHF DET Transformer	1	X
T16	RL4M502	VHF DET Transformer	1	X
T17	RL2B502-T	VHF Narrow Transformer	1	X
T18	RL2B502-T	VHF Narrow Transformer	1	X
T21	RL2M203	Calibration Oscillator Coil	8	Y
L89,90,91,92	RLQZ4702-Y	Choke Coil	1	Y
L96	RLQZ4701-D	Choke Coil	1	Y
COMPONENT COMBINATIONS				
Z1	EXAF203Z471	0.01 μ F \times 2, 470 Ω	1	Y
Z2	EXA50L04C	330 Ω \times 3, 4.7K Ω \times 2	1	Y
RESISTORS				
R161	ERD18T1221	220 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	1	Z
R181,218	ERD18T1471	470 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	2	Z
R93	ERD18T1122	1.2K Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	1	Z
R172	ERD18T1122	1.5K Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	1	Z
R125,145	ERD18T1122	2.2K Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	2	Z
R119	ERD18V470	47 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	1	Z
R147	ERD18V680	82 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	1	Z
R75,85,102,108,109,113,116,130,135,143,150,163,166,187,101,405	ERD18V101	100 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	16	Z
R62,105,132,133,146,176,183	ERD18V1221	220 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	7	Z
R126,162	ERD18V471	270 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	2	Z
R106	ERD18V330	330 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	1	Z
R74	ERD18V391	390 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	1	Z
R71,80,84-117,182	ERD18V471	470 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	6	Z
R215,216	ERD18V1821	820 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	2	Z
R114,160	ERD18V081	680 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	2	Z
R72,81,98,103,151,152,153,154,186,190,194,213,214,191	ERD18V102	1K Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	14	Z
R18,122,123,124,127,171,173,174,177,193,202,217	ERD18V152	1.5K Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	9	Z
R78,201,201,124,130,144,173,174,177,193,202,217	ERD18V182	1.8K Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	1	Z
R77,77,104-168,85	ERD18V222	2.2K Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	13	Z
	ERD18V272	2.7K Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	5	Z

Ref. No.	Part No.	Part Name & Description	Part Sct	Remarks
TL1,13	RLM4M302	3rd, 4th VHF IF Transformer	2	X
TL2,15,20	RLM2M09	2nd, 3rd, 4th AM IF Transformer	3	X
TL4	RLM4M02	5th AM IF Transformer	1	X
TL5	RLM4M01	VHF DET Transformer	1	X
TL6	RLM4M02	VHF DET Transformer	1	X
TL7	RLM2B07-1	VHF Narrow Transformer	1	X
TL8	RLM2B02-1	VHF Narrow Transformer	1	X
TL9	RLM2B02-1	Calibration Oscillator Coil	1	X
93,94,95,97	RLCZ4702-Y	Choke Coil	8	Y
L06	RLQZ4701-D	Choke Coil	1	Y
COMPONENT COMBINATIONS				
Z1	EXAF703Z471	0.01 μ F \times 2, 4700	1	Y
Z2	EXA5DL4C	330PF \times 3, 4.7K Ω \times 2	1	Y
RESISTORS				
R161	ERD18TJ221	220 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	1	Z
R162,163	ERD18TJ122	120 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	2	Z
R172	ERD18TJ122	120 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	1	Z
R175,146	ERD18TJ122	2.2K Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	2	Z
R177	ERD18VJ470	470 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	1	Z
R179	ERD18VJ620	620 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	1	Z
R181,182,183	ERD18VJ101	100 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	16	Z
R184,185	ERD18VJ221	220 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	7	Z
R186,187	ERD18VJ271	270 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	2	Z
R188,189	ERD18VJ330	330 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	1	Z
R190,191	ERD18VJ471	470 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	5	Z
R192,193	ERD18VJ821	820 Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	2	Z
R194,195	ERD18VJ102	1K Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	14	Z
R196,197	ERD18VJ152	1.5K Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	9	Z
R198,199	ERD18VJ182	1.8K Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	1	Z
R200,201	ERD18VJ222	2.2K Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	13	Z
R202,203	ERD18VJ272	2.7K Ω , $\frac{1}{4}$ Watt, \pm 5%, Carbon	5	Z

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R70, 73, 79, 83, 107, 110, 115, 121, 139, 159, 160, 164, 193, 223	ERD18VJ332	33K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	14	Z
R63, 70, 176	ERD18VJ392	39K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	3	Z
R66, 196, 197, 92	ERD18VJ472	47K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	4	Z
R76, 189	ERD18VJ622	62K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	4	Z
R137, 169, 197, 201	ERD18VJ682	68K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	11	Z
R69, 93, 94, 96, 111, 131, 143, 192, 220, 221	ERD18VJ103	10K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R168	ERD18VJ123	12K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R142	ERD18VJ153	15K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R141	ERD18VJ183	18K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R195, 196, 199	ERD18VJ223	22K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	3	Z
R96, 97, 134, 149	ERD18VJ333	33K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	4	Z
R100	ERD18VJ393	39K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	2	Z
R194, 188	ERD18VJ104	10K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R138	ERD18VJ124	12K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R185	ERD18VJ154	15K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R199, 200, 211	ERD18VJ224	22K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	3	Z
R140	ERD18VJ561	56K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R222	ERD18VJ682	68K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z
R167	ERD18VJ161	16K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon	1	Z

CAPACITORS

C164	ECOD1H10100	10 μ F, 50WV, $\pm 0.25\%$, Ceramic	1	Z
C176	ECOD1H1800	18 μ F, 50WV, $\pm 0.25\%$, Ceramic	1	Z
C473	ECOD1H2000	20 μ F, 50WV, $\pm 0.25\%$, Ceramic	1	Z
C393	ECOD1H3000	30 μ F, 50WV, $\pm 0.25\%$, Ceramic	1	Z
C365, 375	ECOD1H4000	40 μ F, 50WV, $\pm 0.25\%$, Ceramic	2	Z
C396	ECOD1H600K	60 μ F, 50WV, $\pm 10\%$, Ceramic	1	Z
C434	ECOD1H800K	80 μ F, 50WV, $\pm 10\%$, Ceramic	1	Z
C394	ECOD1H820K	82 μ F, 50WV, $\pm 10\%$, Ceramic	1	Z
C395	ECOD1H101K	100 μ F, 50WV, $\pm 10\%$, Ceramic	1	Z
C419, 384	ECOD1H151K	150 μ F, 50WV, $\pm 10\%$, Ceramic	2	Z
C390, 393, 396	ECOD1H331K	330 μ F, 50WV, $\pm 10\%$, Ceramic	3	Z
413, 414, 431	ECOD1H1039F	0.01 μ F, 50WV, $\pm 10\%$, Ceramic	9	Z
C361, 362, 364, 365, 367, 368, 370, 371, 372, 373, 374, 375, 386, 395	ECOE1H222PF	0.022 μ F, 50WV, $\pm 10\%$, Ceramic	36	Z

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C42, 443, 444, 446, 449, 453, 466, 467, 468, 499, 470, 471, 474, 428, 447, 482, 487	ECOE1H222PF	0.022 μ F, 50WV, $\pm 10\%$, Ceramic	17	Z
C485, 487	ECOE1H472MD	0.0047 μ F, 50WV, $\pm 20\%$, Ceramic	2	Z
C451, 456, 488	ECOE1H103MD	0.01 μ F, 50WV, $\pm 20\%$, Ceramic	3	Z
C448	ECOE1H111Z	1100PF, 50WV, $\pm 10\%$, Styrol	1	Z
C421	ECOE1H102KZ	1000PF, 50WV, $\pm 10\%$, Styrol	1	Z
C482	ECOE1H103KZ	1000PF, 50WV, $\pm 10\%$, Styrol	1	Z
C470, 428, 428, 432, 437, 475, 477, 383	ECOE1H223MZ	0.022 μ F, 50WV, $\pm 20\%$, Polyester	7	Z
C463	ECOE1H473MZ	0.047 μ F, 50WV, $\pm 20\%$, Polyester	1	Z
C371, 380, 460	ECOE1H50V1	50WV, Electrolytic	3	Z
C381	ECOE1H50V3R3	3.3 μ F, 25WV, Electrolytic	1	Y
C423, 424, 704	ECOE1H50V4R7	4.7 μ F, 25WV, Electrolytic	3	Y
C388, 390, 441, 445, 458, 461, 481, 486, 480	ECOE1H6V10	10 μ F, 16WV, Electrolytic	9	Y
C429	ECOE1H10V100	100 μ F, 10WV, Electrolytic	1	Y
C462	ECOE1H6V1R1	0.1 μ F, 16WV, Electrolytic	1	Y
C486	ECOE1H50V472MZ	0.0047 μ F, 50WV, $\pm 20\%$, Polyester	1	Z

MISCELLANEOUS

IA1	RH95-1	Rubber Cushion, PO Beard	6	Z
IA2	XRY738CBN	Spacer, PO Beard	6	Z
IA3	RJP1002-M	Plug (10pin), IF Amp. Unit (ON-4, ON-5)	4	Y
IA4	RHN918A	Stopper, Plug	2	Z

10-5 BAND SELECTOR UNIT (SUPRF8000M-1).

S28-S31	SUPRF8000M-1	Band Selector Unit	(1)	Z
D49-96	MA760	Band Selector	48	X
9620-9811	ECAG1H6V1-Y	0.1 μ F, 16WV, Electrolytic Capacitor	24	Y
624-639	ECGAS0V1	1 μ F, 50WV, Electrolytic Capacitor	24	Y
0612-623, 639-647	RJS90C	Connector, Band Selector Unit (ON-21, 22)	2	Y
BS1 (Fig. 70)	RMC317Z	Cover, Band Selector Unit	2	Z
BS2				

10-6 CONTROL UNIT (SUPRF8000M-1)

(For parts locations, refer to fig. 96.)				
SUPRF8000M-1	Control Unit	1	Z	
INTEGRATED CIRCUITS, TRANSISTORS AND DIODES				
IC1	DNI936	Inverter	1	X

Ref. No.	Part No.	Part Name & Description	Part No.	Part Name & Description	Part No.	Remarks
1023	DN1646	Hand Gate	2	X		
1024	TS02049	DO Amplifier	3	X		
1025	TS15153557	DO Amplifier	4	X		
1026	TS2564	DO Amplifier, Regulator	5	X		
1027	TS2561	Switching	6	X		
1028	TS2562	Regulator (with Insulating Plate & Spacer)	7	X		
1029	TS2563	Regulator	8	X		
1030	TS2564	Regulator	9	X		
1031	TS2565	Operation Compensator	10	X		
1032	TS2566	Rectifier	11	X		
1033	TS2567	Regulator	12	X		
1034	TS2568	Reset Gate	13	X		
1035	TS2569	Switching	14	X		
1036	TS2570	Protector	15	X		
1037	TS2571	Protector	16	X		
1038	TS2572	Protector	17	X		
1039	TS2573	Protector	18	X		
1040	TS2574	Protector	19	X		
1041	TS2575	Protector	20	X		
1042	TS2576	Protector	21	X		
1043	TS2577	Protector	22	X		
1044	TS2578	Protector	23	X		
1045	TS2579	Protector	24	X		
1046	TS2580	Protector	25	X		
1047	TS2581	Protector	26	X		
1048	TS2582	Protector	27	X		
1049	TS2583	Protector	28	X		
1050	TS2584	Protector	29	X		
1051	TS2585	Protector	30	X		
1052	TS2586	Protector	31	X		
1053	TS2587	Protector	32	X		
1054	TS2588	Protector	33	X		
1055	TS2589	Protector	34	X		
1056	TS2590	Protector	35	X		
1057	TS2591	Protector	36	X		
1058	TS2592	Protector	37	X		
1059	TS2593	Protector	38	X		
1060	TS2594	Protector	39	X		
1061	TS2595	Protector	40	X		
1062	TS2596	Protector	41	X		
1063	TS2597	Protector	42	X		
1064	TS2598	Protector	43	X		
1065	TS2599	Protector	44	X		
1066	TS2600	Protector	45	X		
1067	TS2601	Protector	46	X		
1068	TS2602	Protector	47	X		
1069	TS2603	Protector	48	X		
1070	TS2604	Protector	49	X		
1071	TS2605	Protector	50	X		
1072	TS2606	Protector	51	X		
1073	TS2607	Protector	52	X		
1074	TS2608	Protector	53	X		
1075	TS2609	Protector	54	X		
1076	TS2610	Protector	55	X		
1077	TS2611	Protector	56	X		
1078	TS2612	Protector	57	X		
1079	TS2613	Protector	58	X		
1080	TS2614	Protector	59	X		
1081	TS2615	Protector	60	X		
1082	TS2616	Protector	61	X		
1083	TS2617	Protector	62	X		
1084	TS2618	Protector	63	X		
1085	TS2619	Protector	64	X		
1086	TS2620	Protector	65	X		
1087	TS2621	Protector	66	X		
1088	TS2622	Protector	67	X		
1089	TS2623	Protector	68	X		
1090	TS2624	Protector	69	X		
1091	TS2625	Protector	70	X		
1092	TS2626	Protector	71	X		
1093	TS2627	Protector	72	X		
1094	TS2628	Protector	73	X		
1095	TS2629	Protector	74	X		
1096	TS2630	Protector	75	X		
1097	TS2631	Protector	76	X		
1098	TS2632	Protector	77	X		
1099	TS2633	Protector	78	X		
1100	TS2634	Protector	79	X		
1101	TS2635	Protector	80	X		
1102	TS2636	Protector	81	X		
1103	TS2637	Protector	82	X		
1104	TS2638	Protector	83	X		
1105	TS2639	Protector	84	X		
1106	TS2640	Protector	85	X		
1107	TS2641	Protector	86	X		
1108	TS2642	Protector	87	X		
1109	TS2643	Protector	88	X		
1110	TS2644	Protector	89	X		
1111	TS2645	Protector	90	X		
1112	TS2646	Protector	91	X		
1113	TS2647	Protector	92	X		
1114	TS2648	Protector	93	X		
1115	TS2649	Protector	94	X		
1116	TS2650	Protector	95	X		
1117	TS2651	Protector	96	X		
1118	TS2652	Protector	97	X		
1119	TS2653	Protector	98	X		
1120	TS2654	Protector	99	X		
1121	TS2655	Protector	100	X		
1122	TS2656	Protector	101	X		
1123	TS2657	Protector	102	X		
1124	TS2658	Protector	103	X		
1125	TS2659	Protector	104	X		
1126	TS2660	Protector	105	X		
1127	TS2661	Protector	106	X		
1128	TS2662	Protector	107	X		
1129	TS2663	Protector	108	X		
1130	TS2664	Protector	109	X		
1131	TS2665	Protector	110	X		
1132	TS2666	Protector	111	X		
1133	TS2667	Protector	112	X		
1134	TS2668	Protector	113	X		
1135	TS2669	Protector	114	X		
1136	TS2670	Protector	115	X		
1137	TS2671	Protector	116	X		
1138	TS2672	Protector	117	X		
1139	TS2673	Protector	118	X		
1140	TS2674	Protector	119	X		
1141	TS2675	Protector	120	X		
1142	TS2676	Protector	121	X		
1143	TS2677	Protector	122	X		
1144	TS2678	Protector	123	X		
1145	TS2679	Protector	124	X		
1146	TS2680	Protector	125	X		
1147	TS2681	Protector	126	X		
1148	TS2682	Protector	127	X		
1149	TS2683	Protector	128	X		
1150	TS2684	Protector	129	X		
1151	TS2685	Protector	130	X		
1152	TS2686	Protector	131	X		
1153	TS2687	Protector	132	X		
1154	TS2688	Protector	133	X		
1155	TS2689	Protector	134	X		
1156	TS2690	Protector	135	X		
1157	TS2691	Protector	136	X		
1158	TS2692	Protector	137	X		
1159	TS2693	Protector	138	X		
1160	TS2694	Protector	139	X		
1161	TS2695	Protector	140	X		
1162	TS2696	Protector	141	X		
1163	TS2697	Protector	142	X		
1164	TS2698	Protector	143	X		
1165	TS2699	Protector	144	X		
1166	TS2700	Protector	145	X		
1167	TS2701	Protector	146	X		
1168	TS2702	Protector	147	X		
1169	TS2703	Protector	148	X		
1170	TS2704	Protector	149	X		
1171	TS2705	Protector	150	X		
1172	TS2706	Protector	151	X		
1173	TS2707	Protector	152	X		
1174	TS2708	Protector	153	X		
1175	TS2709	Protector	154	X		
1176	TS2710	Protector	155	X		
1177	TS2711	Protector	156	X		
1178	TS2712	Protector	157	X		
1179	TS2713	Protector	158	X		
1180	TS2714	Protector	159	X		
1181	TS2715	Protector	160	X		
1182	TS2716	Protector	161	X		
1183	TS2717	Protector	162	X		
1184	TS2718	Protector	163	X		
1185	TS2719	Protector	164	X		
1186	TS2720	Protector	165	X		
1187	TS2721	Protector	166	X		
1188	TS2722	Protector	167	X		
1189	TS2723	Protector	168	X		
1190	TS2724	Protector	169	X		
1191	TS2725	Protector	170	X		
1192	TS2726	Protector	171	X		
1193	TS2727	Protector	172	X		
1194	TS2728	Protector	173	X		
1195	TS2729	Protector	174	X		
1196	TS2730	Protector	175	X		
1197	TS2731	Protector	176	X		
1198	TS2732	Protector	177	X		
1199	TS2733	Protector	178	X		
1200	TS2734	Protector	179	X		
1201	TS2735	Protector	180	X		
1202	TS2736	Protector	181	X		
1203	TS2737	Protector	182	X		
1204	TS2738	Protector	183	X		
1205	TS2739	Protector	184	X		
1206	TS2740	Protector	185	X		
1207	TS2741	Protector	186	X		
1208	TS2742	Protector	187	X		
1209	TS2743	Protector	188	X		
1210	TS2744	Protector	189	X		
1211	TS2745	Protector	190	X		
1212	TS2746	Protector	191	X		
1213	TS2747	Protector	192	X		
1214	TS2748	Protector	193	X		
1215	TS2749	Protector	194	X		
1216	TS2750	Protector	195	X		
1217	TS2751	Protector	196	X		
1218	TS2752	Protector	197	X		
1219	TS2753	Protector	198	X		
1220	TS2754	Protector	199	X		
1221	TS2755	Protector	200	X		
1222	TS2756	Protector	201	X		
1223	TS2757	Protector	202	X		
1224	TS2758	Protector	203	X		
1225	TS2759	Protector	204	X		
1226	TS2760	Protector	205	X		
1227	TS2761	Protector	206	X		
1228	TS2762	Protector	207	X		
1229	TS2763	Protector	208	X		
1230	TS2764	Protector	209	X		
1231	TS2765	Protector	210	X		
1232	TS2766	Protector	211	X		
1233	TS2767	Protector	212	X		
1234	TS2768	Protector	213	X		
1235	TS2769	Protector	214	X		
1236	TS2770	Protector	215	X		
1237	TS2771	Protector	216	X		
1238	TS2772	Protector	217	X		
1239	TS2773	Protector	218	X		
1240	TS2774	Protector	219	X		
1241	TS2775	Protector	220	X		
1242	TS2776	Protector	221	X		
1243	TS2777	Protector	222	X		
1244	TS2778	Protector	223	X		
1245	TS2779	Protector	224	X		
1246	TS2780	Protector	225	X		
1247	TS2781	Protector	226	X		
1248	TS2782	Protector	227	X		
1249	TS2783	Protector	228	X		
1250	TS2784	Protector	229	X		
1251	TS2785	Protector	230	X		
1252	TS2786	Protector	231	X		
1253	TS2787	Protector	232	X		
1254	TS2788	Protector	233	X		
1255	TS2789	Protector	234	X		
1256	TS2790	Protector				

10-S OPERATION UNIT (7UPRF8000M-1)

(For parts locations, refer to fig. 97.)

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
	7UPRF8000M-1	Operation Unit	1	○ Z
TRANSISTORS AND DIODES				
TR404/143.44	2SD4829	BFO Oscillator, BFO Amplifier, Calibration Oscillator, Calibration Amplifier	4	X
D10	1S121	Operation Compensator	1	X
D42	OA60	ANL Detector	1	X
D124	MA150	Switching	1	X
CRYSTAL				
X15	RVG2500NR	Calibration Oscillator	1	○ X
VARIABLE AND THERMISTOR				
Va	EYV32001R213	Operation Compensator	1	Y
Th	RRT103	Temperature Compensator	1	Y
COILS AND TRANSFORMER				
L83	RLD981	BFO Oscillator Coil	1	X
T22	RLD2M402	BFO 455kHz Transformer	1	X
T23	RLD2M203	Calibration Oscillator Coil	1	X
VARIABLE RESISTORS				
R204/206	EVLTOAA00B54	50KΩ (B), Squelch Control	2	X
R207	EVH7RBK30954	50KΩ (B), Squelch Control	1	○ X
R249	EVH93A32B54	50KΩ (B), MGO Control	1	○ X
R251	EVLTOAA00B25	20KΩ (B), Meter Control	1	X
R252	EVLTOAA00B24	20KΩ (B), Meter Control	1	X
VARIABLE CAPACITOR				
C503	ECV1YW01B16A	Variable Capacitor, BFO	1	○ Y
RESISTORS				
R205	ERD18T1J03	10KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R207	ERD18T4J72	4.7KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R246	ERD18T1J53	15KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R245/256	ERD18T3333	33KΩ, 1/4 Watt, ±5%, Carbon	2	Z
R244	ERD18T1J93	39KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R250	ERD18T1J274	220KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R236/243	ERD18V1470	470Ω, 1/4 Watt, ±5%, Carbon	2	Z
R250	ERD18V1331	330Ω, 1/4 Watt, ±5%, Carbon	1	Z
R235	ERD18V1681	680Ω, 1/4 Watt, ±5%, Carbon	1	Z
R231/239	ERD18V1J02	1KΩ, 1/4 Watt, ±5%, Carbon	2	Z
R230/233/242	ERD18V1J32	3.3KΩ, 1/4 Watt, ±5%, Carbon	3	Z
I247	ERD18V1472	4.7KΩ, 1/4 Watt, ±5%, Carbon	1	Z

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R232	ERD18V1J62	5.6KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R238/241	ERD18V1J03	10KΩ, 1/4 Watt, ±5%, Carbon	2	Z
R234	ERD18V1J83	18KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R209/210	ERD18V1J23	22KΩ, 1/4 Watt, ±5%, Carbon	2	Z
R240	ERD18V1J93	39KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R237	ERD18V1J04	100KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R238	ERD18V1J14	150KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R248	ERD18V1J81	180Ω, 1/4 Watt, ±5%, Carbon	1	Z
R219	ERD18V1J824	820KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R293	ERD18V1J73	47KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R370	ERD18T1J04	100KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R203	ERD18T1J473	47KΩ, 1/4 Watt, ±5%, Carbon	1	Z

CAPACITORS

C527	ECGD1H0700G	7PF, 50WV, ±0.5PF, Ceramic	1	Z
C505	ECGD1H330K	33PF, 50WV, ±10%, Ceramic	1	Z
C504	ECGD1H390K	39PF, 50WV, ±10%, Ceramic	1	Z
C513	ECGD1H470K	47PF, 50WV, ±10%, Ceramic	1	Z
C509	ECGD1H820K	82PF, 50WV, ±10%, Ceramic	1	Z
C507/508/511, 524/526/531, 532/479	ECKE1H223PF	0.002μF, 50WV, ±10%, Ceramic	8	Z
C501/523	ECKE1H103MD	0.01μF, 50WV, ±20%, Ceramic	2	Z
C502/512	ECKS121J12	220PF, 125WV, ±5%, Styrol	2	Z
C510	ECKS147J1J2	470PF, 125WV, ±5%, Styrol	1	Z
C522	ECG050102KZ	100PF, 50WV, ±20%, Polyester	1	Z
C523	ECG050222KZ	220PF, 50WV, ±20%, Polyester	1	Z
C528	ECEA16V10Z	0.04μF, 50WV, ±20%, Electrolytic	1	Y
C529	ECEA16V10	10μF, 10WV, Electrolytic	1	Y
C506/525	ECEA10V33	33μF, 10WV, Electrolytic	2	Y
C484/465	EDEA25V4H7	4.7μF, 25WV, Electrolytic	2	Y
C534	ECG006103M2	0.015μF, 50WV, ±20%, Polyester	1	Z
C537	ECG0G5683M2	0.068μF, 50WV, ±20%, Polyester	1	Z
C583	ECG0G5102M2	0.001μF, 50WV, ±20%, Polyester	1	Z

MISCELLANEOUS

OU1	RUP125Z-M	Connecting Socket with Lead Wire (12 pin) (CN-10-1)	1	○ Y
OU2	RUP130Z-M	Connecting Socket with Lead Wire (12 pin) (CN-11-1)	1	○ Y
OU3 (Fig. 82)	RJS96Z-M	Socket (CN-6)	1	○ Y
	RHD130Z-1S	Stay Shaft, Socket (RJS96Z-M)	2	○ Z

SWITCHES

S4-1, S4-2	-RXE6F8000M	Band Width, ANL, Mode & AFO Switch Assembly	4	○ X
S5-1, S5-2	(Not Available Order)	Switch Only	(4)	○ X
OU4	ISBNA61-1	Knob, Switch	4	○ X
S6-1 ~ S6-3	RSS96Z	AM Mode & Calibration Switch	2	○ X
S8-1 ~ S8-3				

10-9 MOTOR UNIT (RSG9001ZS)

(For parts locations, refer to fig.98.)

Ref.No.	Part No.	Part Name & Description	Per Set	Remarks
MU1	RSG9001ZS MY1062	Motor Unit Motor with Worm Gear	1 1	O Z O Z

10-10 AF AMPLIFIER UNIT (SUPRF8000M-1)

(For parts locations, refer to fig.99.)

Ref.No.	Part No.	Part Name & Description	Per Set	Remarks
	SUPRF8000M-1	AF Amplifier Unit	1	O Z

TRANSISTORS AND DIODES

TR46	2SK34	Transistor, Pch Amplifier	1	X
TR47	2SA40	Transistor, 1st AF Amplifier	1	X
TR47	2S0946	Transistor, 1st AF Amplifier	1	X
TR47	2S0928	Transistor, 2nd AF Amplifier, SO DC	2	X
TR49,50	2S01226	Transistor, Power Amplifier	2	X
TR74	2S0900	Transistor, Speech Amplifier	2	X
D47,48	1S1211	Diode, Operation Compensator	2	X
D126	MA150	Diode, Operation Compensator	1	X

TRANSFORMER

T24	RLT3021-W	Input Transformer, P-15KD:S-3000	1	X
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VARIABLE RESISTORS

R263	EVED1AS36E14	10KΩ(B), Volume Control	1	O X
R270	EVH30A329B54	50KΩ(B), Bass Control	1	O X
R272	EVH30A329B54	50KΩ(A), Treble Control	1	O X

RESISTORS

R281	ERC12GM221	220Ω, 1/4 Watt, ±20%, Solid	1	Z
R288	ERD18TJ221	220Ω, 1/4 Watt, ±5%, Carbon	1	Z
R288	ERD18TJ221	820Ω, 1/4 Watt, ±5%, Carbon	1	Z
R281	ERD18TJ152	1.5KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R269,278	ERD18TJ222	2.2KΩ, 1/4 Watt, ±5%, Carbon	2	Z
R275	ERD18TJ162	1.6KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R275	ERD18VJ101	100Ω, 1/4 Watt, ±5%, Carbon	1	Z
R283,285,279	ERD18VJ151	150Ω, 1/4 Watt, ±5%, Carbon	3	Z
R283	ERD18VJ221	220Ω, 1/4 Watt, ±5%, Carbon	1	Z
R264	ERD18VJ151	150Ω, 1/4 Watt, ±5%, Carbon	1	Z
R264	ERD18VJ221	220Ω, 1/4 Watt, ±5%, Carbon	1	Z
R284	ERD18VJ221	220Ω, 1/4 Watt, ±5%, Carbon	1	Z
R280	ERD18VJ272	27KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R267	ERD18VJ692	6.8KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R273	ERD18VJ223	22KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R276	ERD18VJ683	68KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R282	ERD18VJ823	82KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R265,266	ERD18VJ334	330KΩ, 1/4 Watt, ±5%, Carbon	2	Z
R280	ERD18VJ474	470KΩ, 1/4 Watt, ±5%, Carbon	1	Z
R267,288	ERX1ANU1H5	15Ω, 1 Watt, ±5%, Metal Oxide	2	Z
R403	ERD18TJ103	100Ω, 1/4 Watt, ±5%, Carbon	1	Z

Ref.No.	Part No.	Part Name & Description	Per Set	Remarks
CAPACITORS				
0576	ECDDH270K	27PF, 50WV, ±10%, Ceramic	1	Z
0566	ECDDH181K	180PF, 50WV, ±10%, Ceramic	1	Z
0575,577	EKE1H333PF	0.033μF, 50WV, ±10%, Ceramic	2	Z
0562	ECOC6332MZ	0.0033μF, 50WV, ±20%, Polyester	1	Z
0568	ECOC6562MZ	0.0068μF, 50WV, ±20%, Polyester	1	Z
0567,568	ECOC60103MZ	0.01μF, 50WV, ±20%, Polyester	2	Z
0500	ECOC60222MZ	0.0022μF, 50WV, ±20%, Polyester	1	Z
0569,563	ECOC60223MZ	0.0022μF, 50WV, ±20%, Polyester	2	Z
0560,557	ECOC60473MZ	0.047μF, 50WV, ±20%, Polyester	2	Z
0551	ECOC60104MZ	0.01μF, 50WV, ±20%, Polyester	1	Z
0578	ECOC18E147-Y	0.1μF, 16WV, Electrolytic	1	Y
0562,573	ECDA60V1	1μF, 50WV, Electrolytic	5	Y
0569	ECDA6V220	220μF, 6.3WV, Electrolytic	1	Y
0574	ECDA6V220	220μF, 6.3WV, Electrolytic	3	Y
0569,570	ECDA6V220	220μF, 6.3WV, Electrolytic	2	O Y
0580	ECDDH331K	330PF, 50WV, ±10%, Ceramic	1	O Y
0702	ECDA10V100	100μF, 10WV, Electrolytic	1	Y

MISCELLANEOUS

AA1	RJPT05Z-M	Plug(5 pin), AF Amp. Unit (ON-13,ON-12)	2	O Y
AA2	RM78Z	Heat Sink, Transistor (TR49,50)	1	O Z

SWITCH

S22	RXE6F8000M	Loadless Switch Assembly	1	O X
	(Not Available Order)	Switch Only	(1)	
AA3	RXE6F8000M	Knob, Loadless Switch	1	O X

10-11 TERMINAL UNIT (4UPRF8000M-1)

(For parts locations, refer to fig.100.)

Ref.No.	Part No.	Part Name & Description	Per Set	Remarks
COILS				
L1	RLA422-0	Ballen Coil	1	X
L101	RLQY100-5	Choke Coil	1	Y

RESISTORS AND CAPACITORS

R64	ERD12GM104	100KΩ, 1/4 Watt, ±20%, Solid Resistor	1	Z
R280	ERD18VJ474	470KΩ, 1/4 Watt, ±5%, Carbon Resistor	1	Z
R289	ERD18VJ823	82KΩ, 1/4 Watt, ±5%, Carbon Resistor	1	Z
O407	EKE1H232PF	0.022μF, 50WV, ±10%, Ceramic Capacitor	1	Z
O57,172	EEA50V1	1μF, 50WV, Electrolytic Capacitor	2	Y Y
O58	EBA18V10	10μF, 16WV, Electrolytic Capacitor	1	Y
O302	ECMS06101H	100PF, 50WV, ±5%, Mica Capacitor	1	Y

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
S3	RSS83A	SWITCH		
		Antenna Selector	1	X
MISCELLANEOUS				
TU1	RUF1040Z	Terminal with Jack Board, EXT. Antenna & Jack	1	O Y
	XANR5T25	Neon Lamp, Arrestor 100V 0.4A	3	X
	RUP104Z-M	Plug (13 pin), RUS2382Z-M (ON-16)	1	O Y
	RUF103Z-M	Plug (10 pin), RUS222Z-M (ON-1)	1	O Y
	RJ49A	Jack, DO (1/2V)	1	O Y
	RUS23A	Dim Jack, REC/PB	1	O Y
	RJ49B	Dim Jack, MPX OUT, AUX IN, REC OUT & EXT SP	4	Y Y
	RJ49C	Jack, MPX OUT, AUX IN, REC OUT & EXT SP	4	Y Y
	RUV292-1	Cover, Switch	1	Z

10-12 TUNING SHAFT UNIT (RSG9004ZS)

(For parts locations, refer to fig. 101 & 102.)

TS1	RSG9004ZS	Tuning Shaft Unit	1	O Z
TS2	RF8000	Dial Drum, Selector Assembly	(1)	O Z
TS3	RF8000	Base	(1)	O Z
TS4	RF8000	Lever A	(1)	O Z
TS5	RF8000	Lever B	(1)	O Z
TS6	RF8000	Lever C	(1)	O Z
TS7	RF8000	Lever D	(1)	O Z
TS8	RF8000	Spring, Selector	(1)	O Z
TS9	RF8000	Dial Drum Assembly, VHF	(1)	O Z
TS10	RF8000	Drum Only	(1)	O Z
TS11	RF8000	Shaft (Long)	(1)	O Z
TS12	RF8000	Shaft (Short)	(1)	O Z
TS13	RF8000	Stopper, Dial Drum (SWF)	(1)	O Z
TS14	RF8000	Stopper, Dial Drum (VHF)	(1)	O Z
TS15	RF8000	Gear (Plastic), Dial Cord	(1)	O Z
TS16	RF8000	Spring, Drum	(1)	O Z
TS17	RF8000	Stopper Cam, Dial Drum	(1)	O Z
TS18	RF8000	Cord (500m), Dial Drum	(1)	O Z
TS19	RF8000	E Ring, Gear (RDS9630Z) M'tg	(1)	O Z
TS20	RF8000	E Ring, Dial Drum Shaft, M'tg	(1)	O Z
TS21	RF8000	Flywheel with Shaft	(1)	O Z
TS22	RF8000	Holder, Flywheel	(1)	O Z

10-13 CABINET

(For parts locations, refer to fig. 87.)

CA1	RYMF8000M	Cabinet Body Assembly	1	O Z
CA2	RYMF8000M	Metal Grills Assembly	(1)	O Z
CA3	RYMF8000M	Base, Shelf Only	(1)	O Z
CA4	RYMF8000M	Base, Shelf	(1)	O Z
CA5	RYMF8000M	Endrim, National Parasitic Mark	1	O Z

GA3	RYMF8000M	Escutcheon Assembly	1	O Z
GA4	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA5	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA6	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA7	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA8	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA9	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA10	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA11	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA12	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA13	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA14	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA15	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA16	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA17	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA18	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA19	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA20	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA21	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA22	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA23	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA24	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA25	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA26	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA27	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA28	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA29	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA30	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA31	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA32	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA33	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA34	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA35	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA36	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA37	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA38	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA39	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA40	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA41	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA42	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA43	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA44	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA45	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA46	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA47	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA48	RYMF8000M	Escutcheon Assembly	(1)	O Z
GA49	RYMF8000M	Escutcheon Assembly	(1)	O Z

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
CA50	RQ037Z	Ornament, Headphones Jack	1	Z
CA51	RU101U	PC Board, Whip Antenna Jack	1	Z
CA52	RUP63Z	Rubber Cover, Whip Antenna Jack	1	Z
CA53	RUN94BZ	Rubber Signal Strength & Battery Check	1	Z
CA54	RSN2307Z	Rubber Cushion, Meter	1	Z
CA55	RH0806Z	Rubber Cushion (Small), Meter & Dial Panel	1	Z
CA56	RH0904-1	Bracket, Meter	6	Z
CA57	RH0904-1	Bracket, Meter	1	Z
CA58	RAM19Z	Pilot Lamp, Clock & Meter, 12V 40mA	3	Z
CA59	XA MHR417250 (PL 5,6,7)	Rubber Holder, Clock Lamp	1	Z
CA60	SMZA6091	Rubber Holder, Meter Lamp	1	Z
CA61	RH0211	Bracket, Meter Lamp	1	Z
CA62	RMP92Z	Rubber Cushion, Bracket (RAM18Z)	1	Z
CA63	RH0694	Lead Holder (3 Terminals), Clock & Meter	4	Z
CA64	RUR22Z	Lamp	1	Z
CA65	RU0118B	Control Switch	2	Z
CA66	XAM100HAY	Whip Antenna & Strap, 130dmm	2	Z
CA67	RBT692S	Knob, Volume	1	Z
CA68	RBT702S	Knob, Volume	1	Z
CA69	RBT1717K	Knob, Treble, Bass & Squelch	3	Z
CA70	RBT727K	Knob, BF0 & CAL	2	Z
CA71	RBT732M	Knob, CAL ON-OFF & BF0 AM-SSW-QW	2	Z
CA72	RBT682K	Knob, MGC (SSB QW)	1	Z
CA73	RMN102Z	Knob with Screw, Clock	1	Z
SCREWS, NUT AND WASHERS				
CA74	XSN21-4FZ	Screw, World Time Map M'tg	4	Z
CA75	XSB31-6BVS	Screw, Frame Antenna Holder M'tg	6	Z
CA76	XTN231-6BZ Z	Screw, Stopper of Front Cover M'tg	4	Z
CA77	XTN231-BBF Z	Screw, Hinge M'tg	4	Z
CA78	XTW33-6LF Z	Screw, Hinge (RBX17Z, RBX18Z) Stopper (RBX20Z), Cover (RUV349Z) & Back Plate (RHO199Z) M'tg	13	Z
CA79	XMA274-10FZ	Screw, Ornament (RDX601Z) M'tg	5	Z
CA80	XTN31-10F	Screw, Scooterboard M'tg	5	Z
CA81	XTN31-10F	Screw, Scooterboard M'tg	5	Z
CA82	XMA31-16B	Screw, Bracket (RDX602Z) M'tg	8	Z
CA83	XTN31-16B	Screw, Handle M'tg	4	Z
CA84	XTN31-10B	Screw, Bracket (CA16) & Handle M'tg	3	Z
CA85	XYM41-016S	Screw, Handle M'tg	3	Z
CA86	SHE4500BS	Screw, Tuning & Volume Knob M'tg	3	Z
CA87 (Fig. 8)	XTN31-F8FZS	Screw, Cabinet Back Cover M'tg	4	Z
CA88	XTN31-6F	Screw, Bracket (RMP92Z) M'tg	2	Z
CA89	XTN31-8F	Screw, Bracket (RMM19Z) M'tg	4	Z
CA90	XTN31-8BS	Screw, Whip Antenna M'tg	1	Z
CA91	XN930S	Nut, Grille (RQ031Z), Holder (REX19Z), Speaker, Metal Grille & Bracket (RUC81Z), RUL364ZS, RMM18Z) & Rubber Leg M'tg	40	Z
CA92	XW43B	Washer, Unit (RQ031Z), Holder (RDX19Z), RUL364ZS, Metal Grille & Bracket (RUC81Z), RMM18Z) M'tg	36	Z
CA93	XW03X10	Washer, Grille (RQ031Z), Metal Grille, Rubber Leg & Bracket (RMM18Z) M'tg	18	Z
CA94	XW03F13	Washer, Metal Grille & Handle M'tg	14	Z

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
CA95	XW04F13	Washer, Handle M'tg	4	Z
CA96	XN13	Washer, Speaker M'tg	4	Z
CA97	XU04F-W	E-Rubber, Speaker M'tg	4	Z
CA98	SNE430	Shield, Antenna & Headphones Jack M'tg	1	Z
CA99	RHE702Z	Nut, Earphone Jack M'tg	2	Z
CA100	XSB31-16BS	Screw, Rubber Leg M'tg	4	Z
CA101	XNS26	Nut, Clock M'tg	3	Z
CA102	XWA20B	Washer, Clock M'tg	3	Z
CA103	RNT520-2	Washer, Chassis M'tg	10	Z
CA104	XYN31-0BS	Red Screw, Whip Antenna M'tg	1	Z
CA105	XTN31-8B	Screw, Handle M'tg	1	Z
DIODE				
D120	RVD1001	Rectifier	1	X
COIL				
L35	RLA32Z-T	Loading Coil	1	X
SPEAKERS				
SP12	EAS18003S	Oval Speaker, 7" x 4" (18cm x 10cm) PM Dynamics, Imp. 16Ω	2	X
SWITCHES				
S111-S111-2	RST40YS-H	Battery Check Switch	1	X
S12	RST40ZS-H	Dial Light Switch	1	X
RESISTORS AND CAPACITOR				
R201	ED01ANU650	50Ω, 1Watt ±5%, Metal Oxide Resistor	1	Z
R202	ED01G04M1B1	100Ω, 1/4Watt ±20%, Solid Resistor	1	Z
C130	EO0D1H100K0	100PF, 50WV, ±10%, Ceramic Capacitor	1	Z
10-14 CHASSIS (For parts locations, refer to figs. 88, 89 & 103.)				
CH1	(Not Available Order)	Front Chassis Assembly	1	Z
CH2	(Not Available Order)	Chassis Only	(1)	Z
CH3	(Not Available Order)	Shift Key	(3)	Z
CH4	(Not Available Order)	Shift Key	(3)	Z
CH5	(Not Available Order)	Guide Cord	(3)	Z
CH6	(Not Available Order)	Bracket, Calibration	(1)	Z
CH7	(Not Available Order)	Bracket, Front Chassis	(1)	Z
CH8	(Not Available Order)	Bracket, Front Chassis	(1)	Z
CH9	(Not Available Order)	Bracket, Front Chassis	(1)	Z
CH10	(Not Available Order)	Bracket, Front Chassis	(1)	Z
CH11	(Not Available Order)	Bracket, Front Chassis	(1)	Z
CH12	(Not Available Order)	Bracket, Front Chassis	(1)	Z
CH13	(Not Available Order)	Bracket, Front Chassis	(1)	Z
CH14	(Not Available Order)	Bracket, Front Chassis	(1)	Z
CH15	(Not Available Order)	Bracket, Front Chassis	(1)	Z
CH16	(Not Available Order)	Bracket, Front Chassis	(1)	Z
CH17	(Not Available Order)	Bracket, Front Chassis	(1)	Z

Ref. No.	Part No.	Part Name & Description	Part No.	Part Name & Description	Part No.	Remarks
CH18	RYD1F8000M	Dial Scale Assembly, VHF1-VHF8, LW.	1	O	Z	
CH19		Dial Scale, VHF1	(1)			
CH20		Dial Scale, VHF2	(1)			
CH21		Dial Scale, VHF3	(1)			
CH22		Dial Scale, VHF4	(1)			
		Dial Scale, VHF5	(1)			
		Dial Scale, VHF6	(1)			
		Dial Scale, VHF7	(1)			
		Dial Scale, VHF8	(1)			
		Dial Scale, LW	(1)			
		Dial Scale, MW	(1)			
		Dial Scale, MB1	(1)			
		Dial Scale, MB2	(1)			
CH23	RYD2F8000M	Spring, Dial Scale Assembly, SW1-SW12	(1)	O	Z	
CH24		Dial Scale, SW1	(1)			
CH25		Dial Scale, SW2	(1)			
CH26		Dial Scale, SW3	(1)			
CH27		Dial Scale, SW4	(1)			
CH28		Dial Scale, SW5	(1)			
		Dial Scale, SW6	(1)			
		Dial Scale, SW7	(1)			
		Dial Scale, SW8	(1)			
		Dial Scale, SW9	(1)			
		Dial Scale, SW10	(1)			
		Dial Scale, SW11	(1)			
		Dial Scale, SW12	(1)			
CH29		Spring, Dial Scale Assembly	(1)			
CH30	RYW3F8000M	Case Only	(1)			
CH31	RYW4F8000M	Wick Battery	(1)			
CH32	RJ0111A	Terminal Battery (4 Side)	3	Y	Y	
	RJ0600Z	Spring, Battery (3 Side)	2	Y	Y	
	RJ0603Z	Spring, Battery (3 Side, For Clock Battery)	1	Y	Y	
CH33	RJ1388A	Connecting Plug, Battery Spring	3	O	X	
	RXE7F8000M	Power Switch Assembly	(1)			
S26	(Not Available Order)	Switch Only	(1)			
	(SXE7F8000M)					
CH34	(SBN61-1)	Knob, Power Switch	1	O	X	
CH35	RJS93Z-S	Socket with Lead Wire (2 Pin).	1	O	X	
CH36	RUV378Z	Power Switch (CH-25)	1	O	X	
CH37	RD06ZS	Over, Accessory Box	1	O	Z	
CH38	RDP595Z	Gear/Metal, Dial Scale (SW)	2	O	Z	
CH39	RLR15	Shaft, Gear	1	O	Z	
CH40	RJR20A	Lead Holder (2 Terminals), Motor & Selector	2			
CH41	RJR24Z	Lead Holder No.2 (5 Terminals)	2	Z	Z	
	RJR25Z	Lead Holder No.1 (3 Terminals)	2	Z	Z	
CH42	RHR110	Bushing (Plastic), Lead Wire of Core	1	Z	Z	
CH43	RUM26Z	Bracket (Right Side), Dial Scale	1	O	Z	
CH44	RUM27Z	Bracket (Left Side), Dial Scale	1	O	Z	
CH45	RMA138Z	Bracket, Core Antenna	6	O	Z	
CH46	RH1311	Rubber Cushion, Core Antenna & Crystal	1	O	Z	
CH47	RH0130Z-1S	Stay Sheet, VHF Tuner Unit	1	O	Z	
CH48	RUV347Z	Cover, Battery Case	1	O	Z	
CH49	RH0816Z	Rubber Cover, POWER LOUDNESS AML, BAND WIDTH, AFO & MODE Switch	6	O	Z	

Ref. No.	Part No.	Part Name & Description	Part No.	Part Name & Description	Part No.	Remarks
CH60	RH0701	Rubber Cushion, VHF Tuner Unit				
	RJ3227Z-M	Socket with Lead Wires (10 Terminals), Terminal Unit (ON-1)				
CH62	4JSRF8000M-1	Socket with Lead Wires (14 Terminals), VHF-SW Selector Unit (ON-7)				
CH63	6JSRF8000M-1	Socket with Lead Wires (12 Terminals), Operation Unit (ON-10)				
CH64	RJS226Z-M	Socket with Lead Wires (7 Terminals), LW, MW, MB1, MB2 RF Amp. Unit (ON-2)				
CH65	RJS229Z-M	Socket with Lead Wires (7 Terminals), LW, MW, MB1, MB2 RF Amp. Unit (ON-3)				
CH66	RJS230Z-M	Socket with Lead Wires (10 Terminals), IF Amplifier Unit (ON-4)				
CH67	RJS231Z-M	Socket with Lead Wires (10 Terminals), IF Amplifier Unit (ON-5)				
CH68	RJS233Z-M	Socket with Lead Wires (12 Terminals), VHF-SW Selector Unit (ON-8)				
CH69	RJS234Z-M	Socket with Lead Wires (12 Terminals), VHF-SW Selector Unit (ON-9)				
CH60	RJS236Z-M	Socket with Lead Wires (10 Terminals), AF Amplifier Unit (ON-13)				
CH61	RJS237Z-M	Socket with Lead Wires (6 Terminals), AF Amplifier Unit (ON-13)				
CH62	RJS238Z-M	Socket with Lead Wires (13 Terminals), Terminal Unit (ON-15)				
CH63	RJS91Z-M	Sockets (14 Terminals), Tuner & Control Unit (ON-17, 18, 19, 20)				
CH64	RJS92Z-M	Socket (30 Terminals), Band Selector Unit (ON-23)				
CH65	RJS98Z-M	Socket (Only 5 Terminals), AF Amplifier Unit (ON-12)				
CH66	RJS102Z-M	Terminal, Socket (RJS88Z-M)				
CH67	RJP145	Plug (5 Pin), AG Adaptor (ON-14)				
CH68	RH0605	Connecting PG Board (ON-16)				
	XAMM47250	Rubber Cushion, Socket (RJS91Z-M)				
CH69	(RL12,3,4)	Plug Lamp, Dial Scale, 12V, 40mA				
CH70	SNX56391	Rubber Holder, Pilot Lamp				
	RKZ698Z	Indicating Plate, VHF1, VHF2, VHF3, etc.				
CH71	RDD31ZS	Mark				
CH72	RDS4060A	Spring, Dial				
CH73	RUS218Z	Spring, Dial Scale Assembly M'tg				
CH74	RDS4060A	Spring, Calibration				
CH75	RDT08A	Card (500m), Dial				
CH76	RDP129Z	Pointer, Dial (SW)				
CH77	RDP130Z	Pointer, Dial (VHF)				
CH78	RUB007ZS	Stopper, Volume				
CH79	RUT005Z	Selector Mechanism, CAL-ON/OFF & AM Mode Switch				
CH80	RMF7Z	Bracket, Terminal Unit				
CH81	RJP100Z-M	Plug with Lead Wires (2 Pin), Power Switch (ON-26)				
	WESE (H)-74	Shield Wire, Socket (RJS92Z-M)				
	WESE (H)-33	Shield Wire, Socket (RJS92Z-M)				
	WESE (H)-37	Shield Wire, Socket (RJS92Z-M)				
	WDSE (O)-37	Shield Wire, Socket (RJS92Z-M)				
	WKSE (O)-304B	Shield Wire, Socket (RJS91Z-M)				

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
	WKSE(H)-768B RJK 1407-4	Shield Wire, Socket(RJS91Z-M) Pipe, Battery	1 2	○ Z Y
SCREWS, NUTS AND WASHERS				
CH82	XTN23+6B	Screw, Spring(RUS205Z) M'tg	6	Z
CH83	XTW3+6L	Screw, AF Amp. Operation & LW, MW, MB1, MB2 RF Amp. Unit etc. M'tg	14	Z
CH84	XYN3+6S	Screw, Power, Loudness, ANL, Band Width, AFG, Mode Switch etc. M'tg	14	Z
CH85	XTN3+6F	Screw, Heat Sink(AF Amp. Unit), AC Adaptor, IF Amp., Motor Unit etc. M'tg	77	Z
CH86	XYN3+6S	Screw, Lead Holder(RJR1B) & Tuner M'tg	12	Z
CH87	XXAR3H6S	Screw, Gear(RDG6ZS), Dial Drum & Spacer (RDF959Z) M'tg	12	Z
CH88	XTN3+6F	Screw, VHF-SW Selector Unit etc. M'tg	12	Z
CH89(Fig. 10)	XYN4+G2SFZS	Screw, Chassis M'tg	10	Z
CH90(Fig. 12)	XYN4+G8RS	Red Screw, Chassis M'tg	4	Z
CH91	XNS6	Nut, Treble, Bass, Squelch, etc. M'tg	6	Z
CH92	XWBS	Washer, Treble, Bass, Squelch, etc. M'tg	6	Z
CH93	XN3GS	Nut, Operation Unit M'tg	2	Z
CH94	XUG3FW-V	E Ring, Gear(RDG6ZS) M'tg	1	Z
CH95	XUG3FW-V	E Ring, Shaft(RDF95Z) M'tg	1	Z
CH96	XUG5	E Ring, Gear(RDG6636Z) M'tg	1	Z
CH97	XUO4FW-V	E Ring, Gear(RDG6636Z) M'tg	1	Z
CH98	XTW3+6L	Screw, Battery Case Assembly M'tg	5	Z
CH99	RNW422	Washer, Lead Holder(RJR1B) M'tg	1	Z
CH100	XWA3B	Washer, Tuner(VHF) M'tg	1	Z
	XNT4	Washer, Chassis M'tg	4	Z
CH101(Fig. 11)	XYN3+6FZS	Screw, Chassis M'tg	1	Z
	RNW322	Washer, PC Board(CN-6) M'tg	2	Z
TRANSISTOR AND DIODES				
TR73	ZSC828	Transistor, Recording Output Amplifier	1	X
D43.44.112	RVD1001	Diode, Rectifier	3	○ X
COILS				
L85.86	RLQ24501-D	Choke Coil	2	Y
L73	RLF1X1-O	LW Antenna Coil	1	○ X
L74	RLF2X6-O	MW Antenna Coil	1	○ X
L75.76	RLF9X2-O	MB1 & MB2 Antenna Coil	1	○ X
RESISTORS AND CAPACITORS				
R402	ERD18TJ152	1.5KΩ, 1/4 Watt, ±5%, Carbon Resistor	1	Z
R401	ERD18TJ474	470KΩ, 1/4 Watt, ±5%, Carbon Resistor	1	Z
R400	ERD18TJ471	470Ω, 1/4 Watt, ±5%, Carbon Resistor	1	Z
Q484.539.581. 582	ECCKE1H223PF	0.022μF, 50WV, ±10%, Ceramic Capacitor	4	Z
O674	ECEA60V33	33μF, 50WV, Electrolytic Capacitor	1	○ Y
C279	ECEA10V470	470μF, 10WV, Electrolytic Capacitor	1	Y
G701	ECEA25V4R7	4.7μF, 25WV, Electrolytic Capacitor	1	Y
G700	ECEA16V10	10μF, 16WV, Electrolytic Capacitor	1	Y

10-15 FRAME ANTENNA UNIT (RSARF8000M-1)

(For parts locations, refer to figs. 104 & 105.)

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
	RSARF8000M-1	Frame Antenna Unit	1	○ Z
FA1	RSA4Z	Frame Antenna Only	1	○ Z
FA2	RJT461Z	Terminal, Frame Antenna	2	○ Z
FA3	RMA130Z	Bracket, Frame Antenna	4	○ Z
FA4	RJP85Z-S	Plug, Frame Antenna	1	○ Y
FA5	XNS11	Nut, Plug M'tg	1	Z
FA6	RKM330Z	Cabinet, Frame Antenna	1	○ Z
FA7	RKF237Z	Cover, Frame Antenna	1	○ Z
FA8	XUO4FW-V	E Ring, Frame Antenna M'tg	4	Z
	XNG4BS	Nut, Frame Antenna M'tg	2	Z
	XWA4B	Washer, Frame Antenna M'tg	2	Z
	XYNR4+H10S	Screw, Frame Antenna M'tg	2	Z
	XTN3+8B	Screw, Bracket(RMA130Z) M'tg	2	Z
	XTN3+10BFZ	Screw, Antenna Cover M'tg	1	Z

10-16 PACKING MATERIALS

(For parts locations, refer to fig. 107.)

P1	RPH239Z	Soft Cover	1	○ Z
P2	RPH255Y	Soft Sheet	2	○ Z
P3	RPN1990Z	Pad, Cabinet Front	1	○ Z
P4	RPN1874Z	Pad, Both Sides of Cabinet	2	○ Z
P5	RPN1981Z	Pad, Upper & Bottom	3	○ Z
P6	RPQ1392Z	Packing Case, Inside	1	○ Z
P7	RPQ1393Z	Packing Case, Outside	1	○ Z
P8	RQX5904Z	Instruction Book	1	○ Y

10-17 ACCESSORIES

(For parts locations, refer to fig. 107.)

	RJA20Z-K	AC Cord, EXT. Power Source	1	○ Y
	XEH15A1-B	Magnetic Earphone	1	Y
	RJP3-1	Plug, Jack	3	Y
	RJP16AS	Plug, British Type	1	Y
	RJP17AS	Continental Type	1	Y

10-18 AC ADAPTOR (RD-9470)

(For parts locations, refer to fig. 106.)

	RD-9471B	AC Adaptor	1	○ Z
TRANSISTORS AND DIODES				
TR67	ZSC828	Regulator Amplifier	1	X
TR68	ZSC847	Regulator	1	○ X
TR69	2SA733	Regulator Amplifier	1	X
D106	RVDMZ208	Power Source Operation Compensator	1	X
D107	RVD100D2	Rectifier	1	○ X
D108	RVD100D1	Rectifier	1	X
TRANSFORMER				
T25	RLT6M24-W	Power Transformer	1	○ X

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
RESISTORS AND CAPACITORS				
R361	EVTJ0A05B23	2K Ω (B), Power Source Voltage Control Resistor	1	○ X
R362	ERD18TJ103	10K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon Resistor	1	Z
R360	ERD18TJ123	12K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon Resistor	1	Z
R363	ERD18VJ272	2.7K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon Resistor	1	Z
R364	ERD18VJ824	820K Ω , $\frac{1}{2}$ Watt, $\pm 5\%$, Carbon Resistor	1	Z
R367	ERG1ANJ103	10K Ω , 1Watt, $\pm 5\%$, Metal Oxide Resistor	1	○ Z Y3724
R366	ERX1ANJR82	0.82 Ω , 1Watt, $\pm 5\%$, Metal Oxide Resistor	1	○ Z
C405,406	ECKD2H103PE	0.01 μ F, 500VW, $\pm 10\%$, Ceramic Capacitor	2	Z Y3724
C401	EOCG05333MZ	0.033 μ F, 50VW, $\pm 20\%$, Polyester Capacitor	1	Z
C400	ECEA25V220	220 μ F, 25VW, Electrolytic Capacitor	1	○ Y
C404	ECEA25V470V	470 μ F, 25VW, Electrolytic Capacitor	1	○ Y Y3724
C403	EOET35R2200	2200 μ F, 35VW, Electrolytic Capacitor	1	Y Y3724
C705	ECKE1H102MD	0.001 μ F, 50VW, $\pm 20\%$, Ceramic Capacitor	1	Z
MISCELLANEOUS				
A01	RJJ30Z-H	Jack, EXT. Power Source, AC 100/120/220/240V, 50/60Hz	1	Y Y3724
	RJS25-2	Socket, Power Source	1	Y
	RJE10Z	Cover, EXT. Power Source Jack	1	Z Y3724
A02	RUV361Z	Cover, Transistor (TR68)	1	Z
A03	RGT443Z	Name Plate	1	○ Z
AC4	RJF7A	Holder, Fuse	4	Z
AC5	XBA2008TRO	Fuse, 250V 0.8A	2	X Y3724
AC6	ESE3741	Voltage Selector	1	○ X Y3724
AC7	RUV387Z	Cover, Voltage Selector Selector	1	○ Z
	XSB3+12BNS	Screw, Transistor (TR68) M*lg	2	Z
	XSN4+8S	Screw, Power Transformer M*lg	2	Z
	XNG3CS	Nut, Transistor (TR68) M*lg	2	Z
	XW04F13	Washer, Power Transformer M*lg	2	Z
	XW03	Washer, Transistor (TR68) M*lg	2	Z
	XTW3+8L	Screw, Jack & Voltage Selector Switch M*lg	6	Z
	RHR314Z	Insulator, Transistor (TR68)	1	Z