ISO

Set using ISO screws

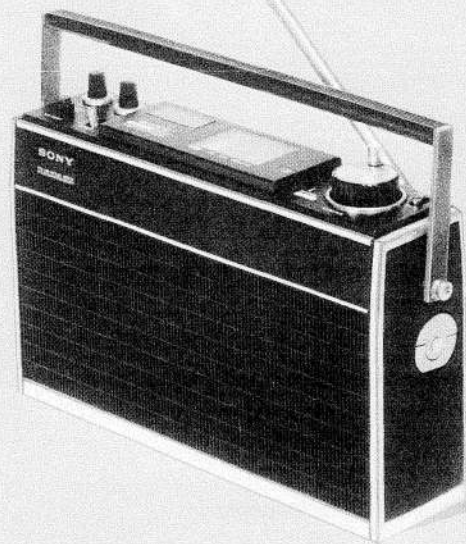
TFM-8600W

General Export Model

USA Model

REVISED

Do not use TFM-8600W SERVICE MANUAL (USA Model, 110508-2) previously issued for sets with serial number 13501 and later.



SPECIFICATIONS

Circuit: 1-FET 18-transistor 9-diode superheterodyne, 4-transistors for auxiliary circuit

Frequency Ranges:
FM 87.5 ~ 108 MHz (3.42 ~ 2.78 m)
AIR 108 ~ 136 MHz (2.77 ~ 2.20 m)
MW 530 ~ 1,605 kHz (566 ~ 187 m)
BEACON 150 ~ 400 kHz (2,000 ~ 750 m)

Intermediate Frequencies:
FM/AIR 10.7 MHz
MW/BEACON 455 kHz

Antennas:
FM/AIR built-in telescopic antenna or external antenna
MW/BEACON built-in ferrite bar antenna or external antenna

Sensitivity at 50 mW output:
FM 2.5 μV (8 dB) at S/N 30 dB
AIR 1.6 μV (4 dB)
MW 32 μV/m (30 dB/m)
BEACON 56 μV/m (35 dB/m)

Selectivity at ± 10 kHz off-resonance: 34 dB at 1,400 kHz

Power Output
at 10 % distortion: 1.2 W
maximum: 1.8 W

Current Drain
at zero signal: FM/AIR 36 mA, MW/BEACON 27 mA
at 10 % distortion: 400 mA

Power Requirements: Four "D" size flashlight batteries 6 V in total
Car battery with SONY car battery cord DCC-126 (option)
AC 120 V 50/60 Hz with ac adaptor AC-70W

Speaker: 10 cm (4") dia. 8 Ω

Dimensions: 252 mm (W) x 162 mm (D) x 72 mm (H) (10" (W) x 6 3/8" (D) x 2 7/8" (H))

Weight: 1.9 kg (4 lb 3 oz)

SONY®

SERVICE MANUAL

TABLE OF CONTENTS

SECTION 1
OUTLINE

1-1. TECHNICAL FEATURES

* High-performance portable radio receiver with four bands; AIR, FM, MW, and BEACON.
* Separate AIR band circuit with a ceramic filter and four high-Q i-f transformers for superior sensitivity and selectivity.
* Squelch circuit for AIR band reception.
* FET (field effect transistor) with triple-tuned passive input circuit for superior interference rejection.
* Useful as an a-m band direction finder.

1-2. CIRCUIT DESCRIPTION

Stage/Control	Function
Fm Front End	
FET mixer Q101	Usually an fm front end consists of an rf amplifier, mixer and local oscillator as shown in Fig. 1-1. The rf amplifier sometimes worsens the crossmodulation-ability of the receiver when ordinary bipolar transistors are used. It is, however, difficult to eliminate the rf amplifier because its removal causes strong suprious radiation, poor sensitivity and a poor noise figure. To solve this problem, the Model TFM-8600W uses a low-noise junction FET for the mixer and a triple-tuned circuit for a passive input circuit as shown in Fig. 1-2. The Model TFM-8600W is capable of clear fm reception even in strong signal-strength areas due to the extemely superior interference-rejection characteristics of the passive input circuit.
Local oscillator Q102	The oscillator generates a frequency 10.7 MHz higher than the incoming signal frequency and injects the generated voltage at the source of FET mixer Q101.
Afc diode D101	This diode is connected across the resonant circuit of the oscillator and works as a variable-capacitance diode. A dc feedback voltage from the discriminator controls the bias applied to the diode to keep the local oscillator frequency correct.
Fm i-f amplifier Q103	Transistor Q103 amplifies the 10.7 MHz i-f signal produced by mixer Q101 and coupled to it through i-f transformer IFT F101.

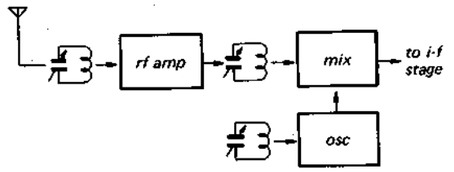


Fig. 1-1. Usual front end

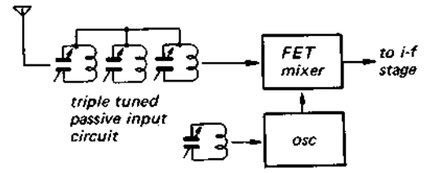


Fig. 1-2. TFM-8600W front end

AIR Band Circuit

Rf amplifier Q301	Q301 amplifies the VHF a-m signals coupled through bandpass filter L301. This amplifier uses a common-base circuit for best high-frequency response.
Converter Q302	Q302 generates a frequency 10.7 MHz higher than the incoming signal frequency and mixes it with the incoming signal for conversion to the 10.7 MHz i-f.

Stage/Control	Function
Temperature compensator D301	Diode D301 compensates the frequency drift of the local oscillator caused by temperature variations.
I-f amplifier Q213 to Q215	This 10.7 MHz i-f amplifier consists of three stages coupled by i-f transformers and a ceramic filter.
Detector D206	Diode D206 rectifies the i-f signal and converts it into an audio signal.
Agc amplifier Q216	This stage amplifies a dc voltage from detector D206 and applies it to the bases of Q213 and Q214 as an agc voltage. Transistor Q216 also applies the dc voltage to the base of Q217 as a squelch control voltage.
Squelch circuit Q217	When the receiver is tuned to a signal, the dc output voltage from detector D206 decreases the collector current flow of pnp transistor Q216. This decreases the collector voltage of Q216. The base-emitter bias of Q217 (pnp) therefore increases, enabling Q217 to pass the detected signals. When detuned from a signal, the collector current of Q216 increases and the base-emitter bias of Q217 decreases, cutting off the collector current of Q217 and preventing it from passing the detected noise. The base voltage of transistor Q217 is also supplied by the regulator circuit of Q208, and can be manually controlled by potentiometer RV1.
Tuning meter amplifier Q218	This stage amplifies the agc voltage applied to the tuning meter.
Audio Amplifier	
Audio driver Q209, Q210	This direct-coupled stage amplifies the audio signal supplied by VOLUME control RV2. RV3 is a high-cut type TONE control.
Power amplifier Q211, Q212	This stage uses a transformer-coupled push-pull class-B amplifier. Thermistor Th201 temperature-compensates the base bias of Q211 and Q212. Negative feedback from the output of T202 to the emitter of Q210 improves the frequency response and reduces distortion.

Hardware Nomenclature

P	Pan Head Screw	SC	Set Screw
PS	Pan Head Screw with Spring Washer	E	Retaining Ring (E Washer)
K	Flat Countersunk Head Screw	W	Washer
B	Binding Head Screw	SW	Spring Washer
RK	Oval Countersunk Head Screw	LW	Lock Washer
T	Truss Head Screw	N	Nut
R	Round Head Screw		
F	Flat Fillister Head Screw		

– Example –

⊕ P 3×10
- Type of Slot
- Length in mm (L)
- Diameter in mm (D)
- Type of Head

When ordering replacement parts, use PART NUMBERS listed in Parts List or shown in EXPLODED VIEW. Parts list reference number should not be used.

1-3. BLOCK DIAGRAM

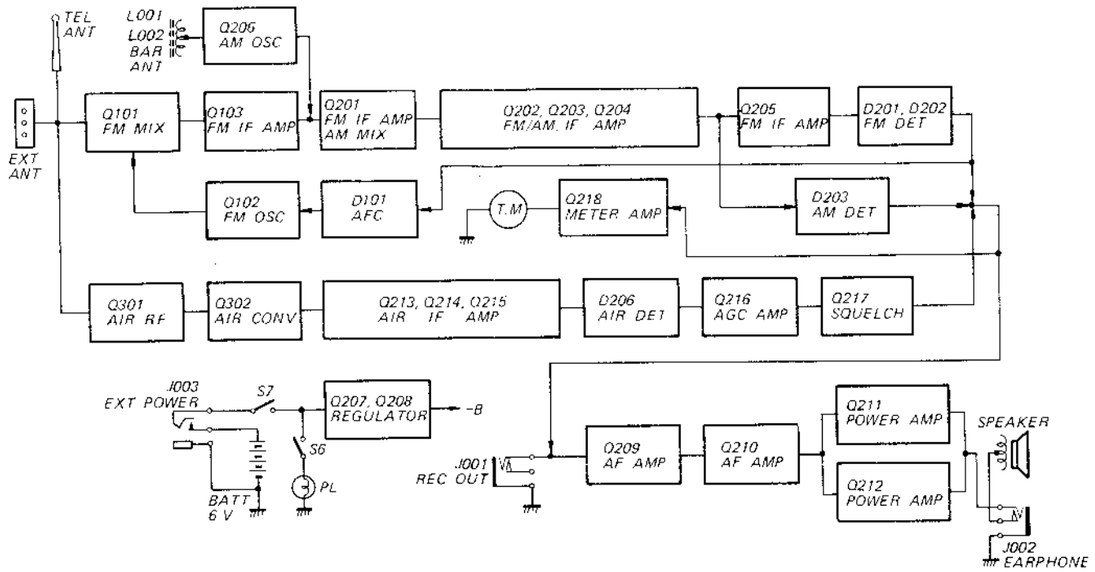


Fig. 1-3.

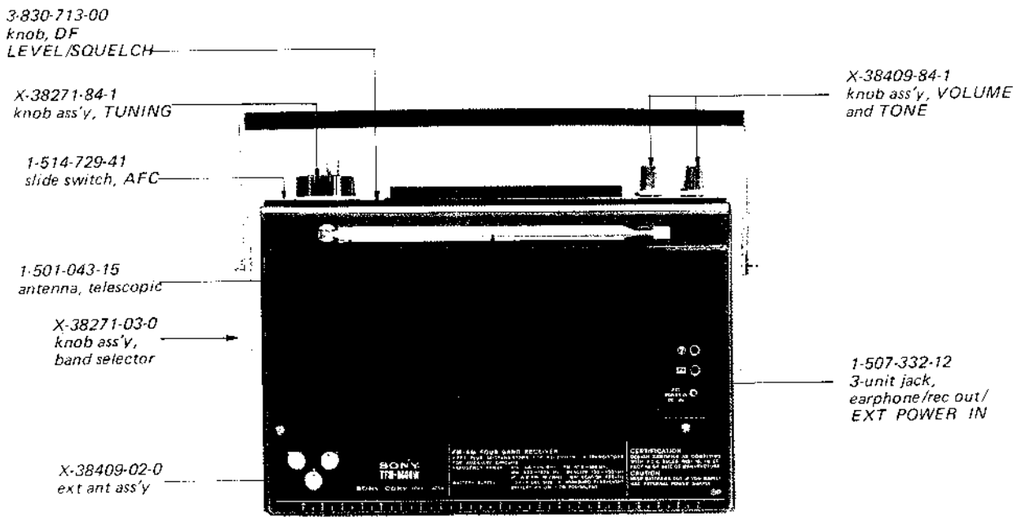


Fig. 1-4.

SECTION 2
DISASSEMBLY

2-1. REAR CABINET REMOVAL

1. Remove the three screws shown in Fig. 2-1.
2. Remove the ornamental screw and pull out the band selector knob.
3. Pull out the VOLUME, TONE and TUNING knobs.
4. Remove the rear cabinet in the direction shown by the arrow and pull out the antenna lead-pin from the terminal.

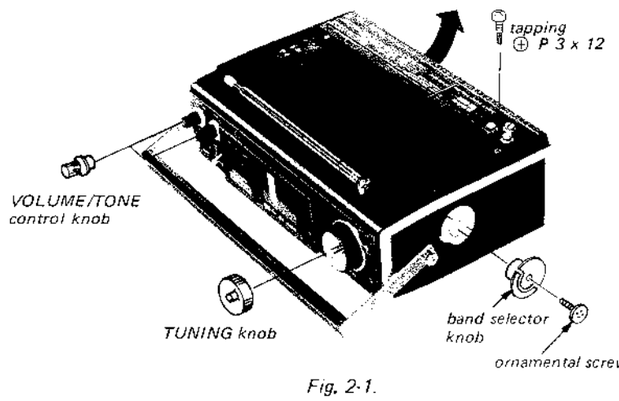


Fig. 2-1.

2-2. CHASSIS REMOVAL

1. Remove the rear cabinet as outlined in 2-1 above and follow the removing steps numerically as shown below.

* **Note:** TUNING meter is attached to the front cabinet with an adhesive tape. Remove chassis by barking the adhesive tape.

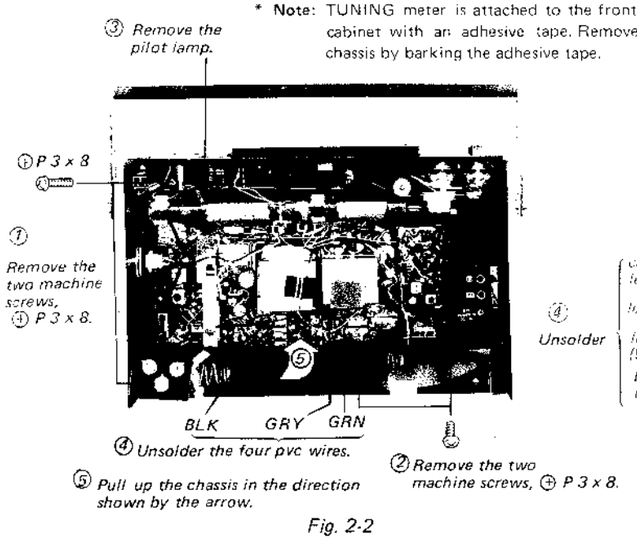


Fig. 2-2

2-3. MAIN (CP/I-F/AF) CIRCUIT BOARD REMOVAL

1. Remove the chassis as outlined in 2-2 above and follow the removing steps numerically as shown below.

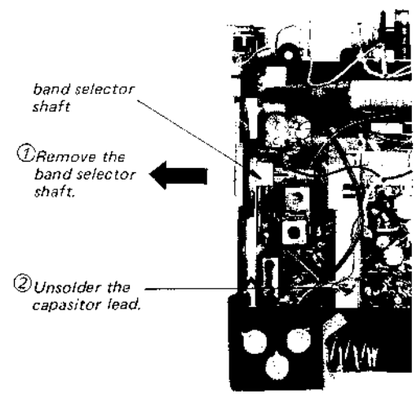


Fig. 2-3.

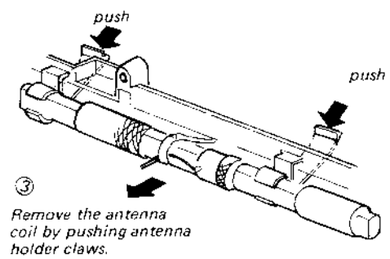


Fig. 2-4.

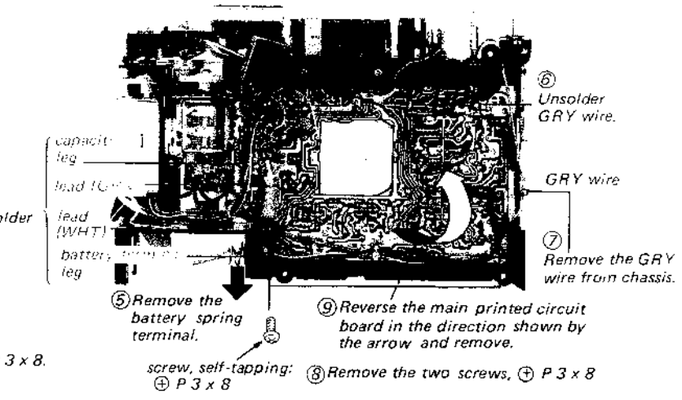


Fig. 2-5

2-4. AIR CIRCUIT BOARD REMOVAL

1. Remove the chassis as outlined in 2-2 above and follow the removing steps numerically as shown below.

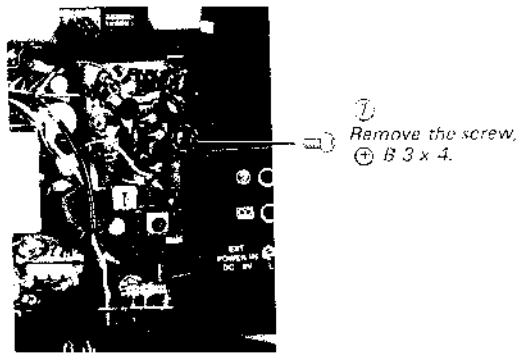


Fig. 2-6.

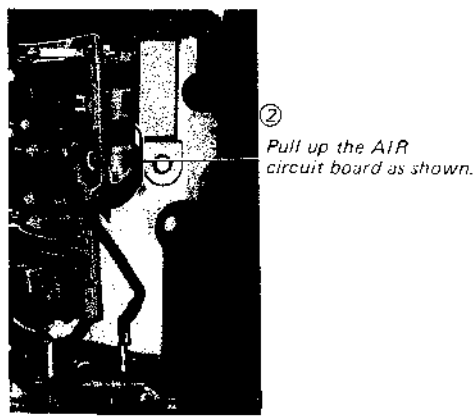


Fig. 2-7.

2-5. FM FRONT END BLOCK AND PRINTED CIRCUIT BOARD REMOVALS

1. Remove the chassis as outlined in 2-2 above and follow the removing steps as shown below.

Note: Inside sheck to the FM front end block can be performed with steps② and③

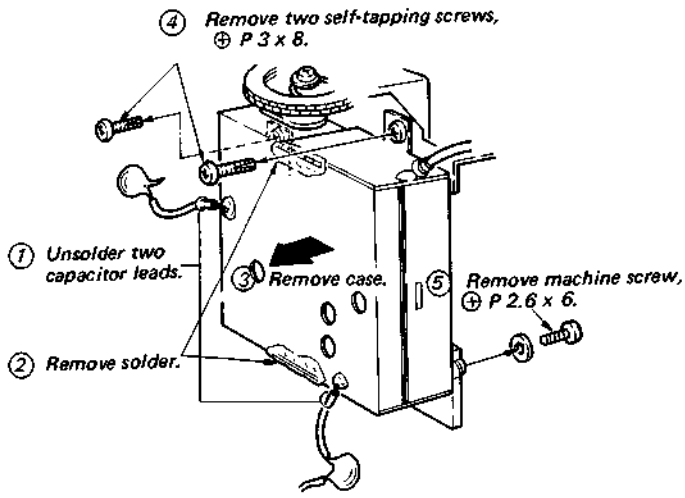


Fig. 2-8.

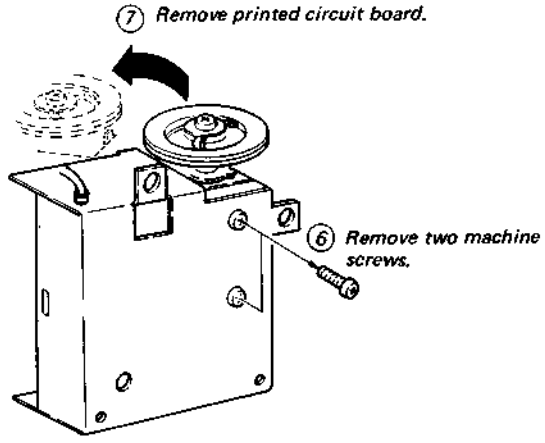


Fig. 2-9.

2-6. BAND INDICATOR CORD STRINGING

1. Fix the cord to the spring as shown in Fig. 2-10 (a).
2. Rotate the band selector drum fully counter-clockwise.
3. Rotate the band indicator drum so that it shows BCN on the top.
4. String the cord as shown in Fig. 2-10 (b).

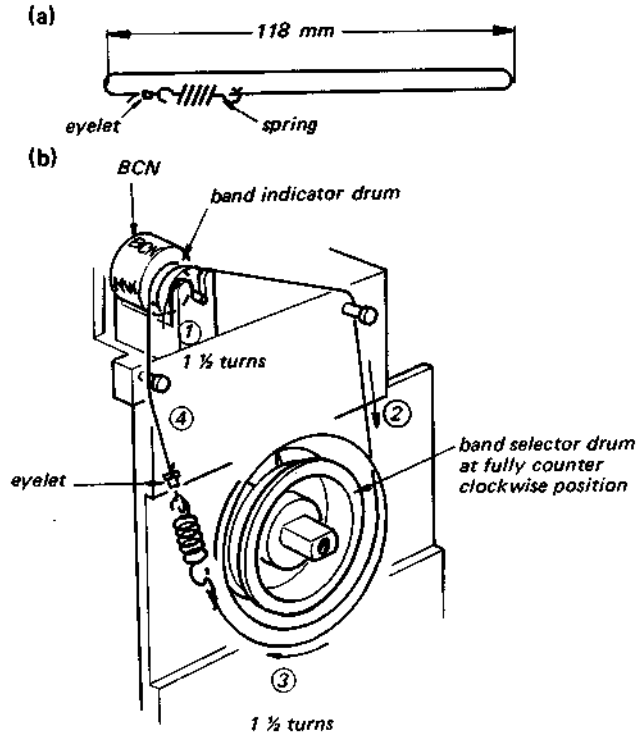


Fig. 2-10.

2-7. DIAL CORD STRINGING

1. Make a dial cord assembly as shown in Fig. 2-11 (a) and apply a small amount of lock paint to the knotted portions.
2. String the cord as shown in Fig. 2-11 (b).
3. Set the tuning shaft to fully clockwise position and adjust the film drum position with a phillips screwdriver as shown in Fig. 2-11 (c) so that the logging scale "10" on the dial film places 5 mm above the hairline mark on the dial film holder as shown in Fig. 2-11 (d).
4. Hang the dial cord on the claw of the film drum as shown with ※ in Fig. 2-11 (c).
5. Set the chassis back into the cabinet and set the tuning shaft at fully counterclockwise position and check that the orange line on the dial transparent plate is at the mark "0" on the dial film as shown in Fig. 2-11 (e).

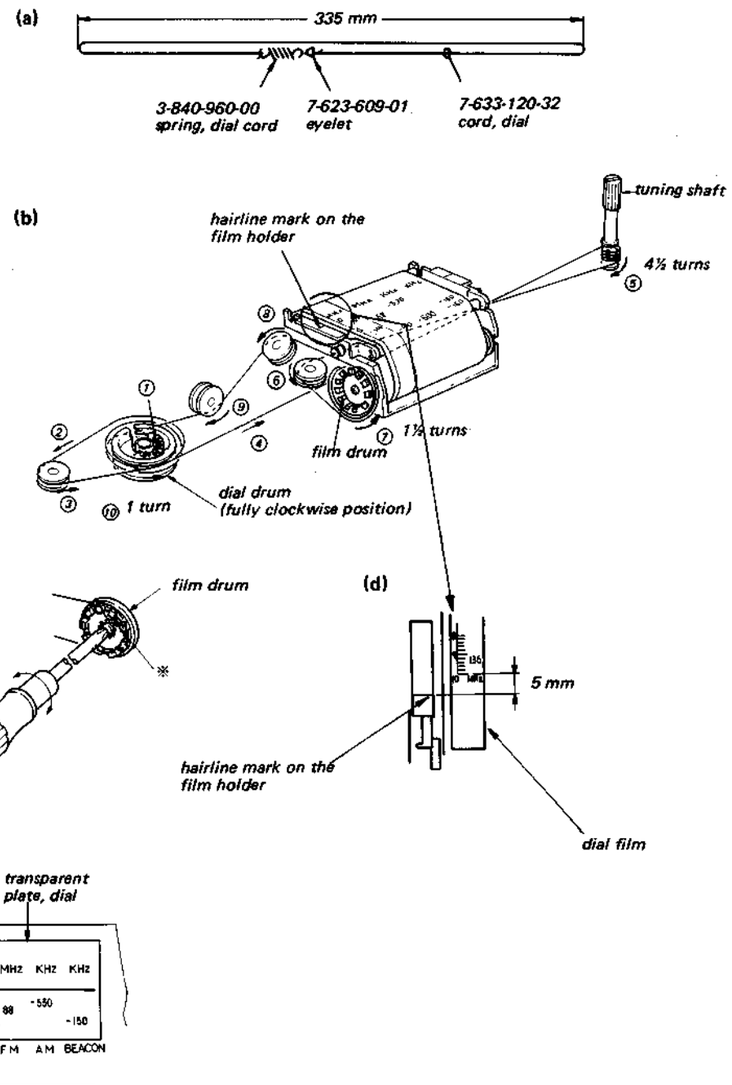


Fig. 2-11.

MEMO

SECTION 3
CIRCUIT ADJUSTMENTS

3-1. AM I-F ALIGNMENT

Test Equipment/Tools Required:

* Rf signal generator (for AM)
* Multimeter (20 kΩ/V DC)
* Loop antenna
* 8 Ω resistor
* Screwdriver for alignment

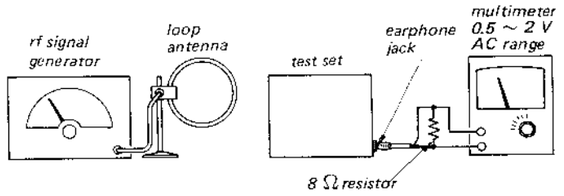


Fig. 3-1. AM (MW/BEACON) i-f alignment, frequency coverage and tracking adjustment setup.

Rf Signal Generator Coupling	Rf Signal Generator Frequency	Multimeter Connection	Adjust	Remarks
Loop antenna See Fig. 3-1.	455 kHz (1 kHz 30% AM)	Earphone jack with 8 Ω load resistor in parallel	CFT	Band selector : MW VOLUME control: fully clockwise (MAX) TONE control : fully clockwise (H) TUNING knob : fully clockwise Adjust for maximum meter reading.

3-2. FM/AIR I-F ALIGNMENT

Test Equipment/Tools Required:

* Rf signal generator (for FM)
* Multimeter (20 kΩ/V DC)
* 8 Ω resistor
* Screwdriver for alignment

Preparation:

FM rf signal generator modulation:
400 Hz, ± 22.5 kHz deviation
FM rf signal generator output level:
Usable lowest possible
FM rf signal generator coupling:
Direct connection to FM tuning capacitor (for FM) or FM/AIR external antenna terminals (for AIR). See Fig. 3-3 and 3-7.
VOLUME control setting: fully clockwise (MAX)
TONE control setting: fully clockwise (H)
AFC switch setting: OFF

Test Setup:

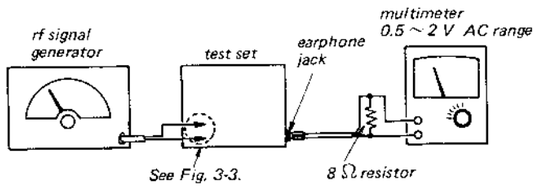


Fig. 3-2. FM i-f alignment setup (1).

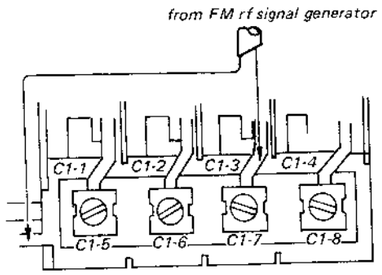


Fig. 3-3. FM rf signal generator coupling for FM i-f alignment.

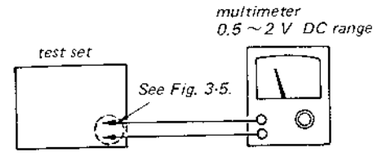


Fig. 3-4. FM i-f alignment setup (2).

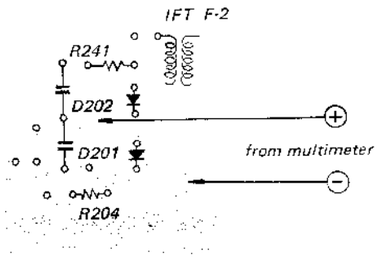


Fig. 3-5. Multimeter connection for FM i-f alignment.

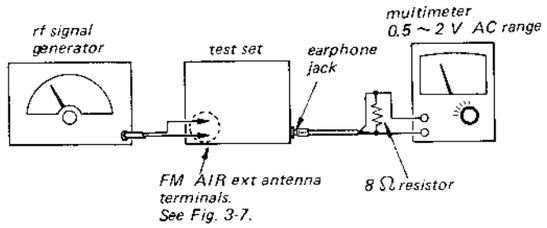


Fig. 3-6. AIR i-f alignment setup.

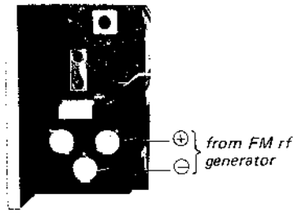


Fig. 3-7. FM rf signal generator coupling for AIR i-f alignment.

Item	Step	Rf Signal Generator Frequency	Receiver Dial Setting	Adjust	Procedure
FM I-f Alignment	1	10.7 MHz with FM modulation	No station, no beating position	Cores of IFT F101 IFT F-1 IFT F-2 IFT F-3	Test setup: See Fig. 3-2 and Fig. 3-3 Band switch setting: FM Adjust for maximum meter reading.
	2	10.7 MHz without modulation	– ditto –	Rf signal generator frequency	Carefully adjust rf signal generator frequency around 10.7 MHz for maximum meter reading.
	3				Repeat steps 1 and 2 two or three times.
	4	No input signal	– ditto –	Core of IFT F-3	Test setup: See Fig. 3-4 and Fig. 3-5. Adjust for "0V DC" meter reading.
AIR I-f Alignment	1	10.7 MHz	No station, no beating position	Cores of IFT AIR-1 IFT AIR-2 IFT AIR-3	Test setup: See Fig. 3-6 and Fig. 3-7. Band switch setting: AIR Adjust for maximum meter reading.
	2		– ditto –	– ditto	Carefully adjust rf signal generator frequency and adjust for maximum meter reading.
	3				Repeat steps 1 and 2 two or three times.

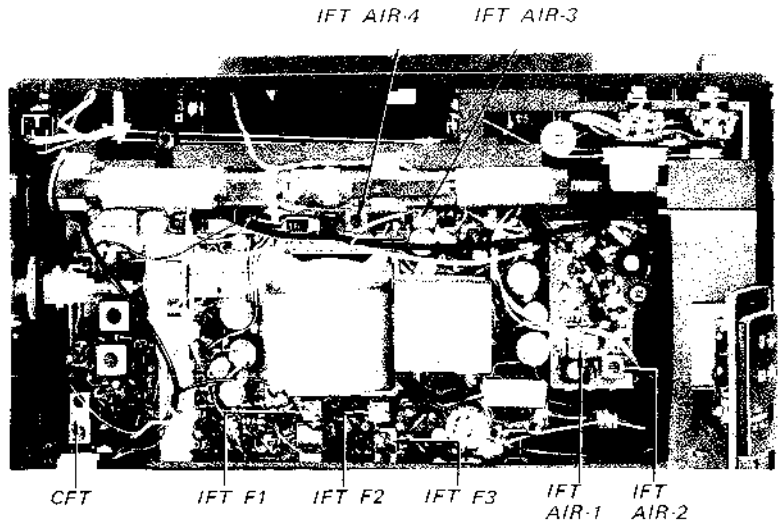


Fig. 3-8. Adjustment locations

Note: When 0.5 ~ 2 V AC range is not available on the multimeter, use a VTVM instead of the multimeter or use a rectifying circuit with the multimeter 0.5 ~ 2 V DC range as shown below.

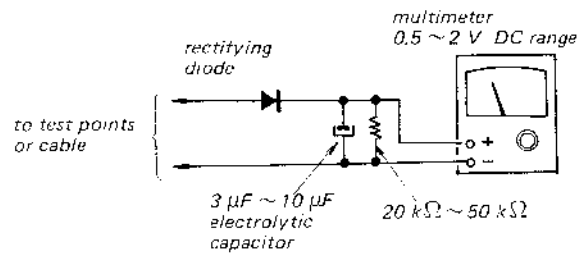


Fig. 3-9.

3-3. FREQUENCY COVERAGE AND TRACKING ADJUSTMENT

Test Equipment/Tools Required:

* Rf signal generator (for FM and AM)
* Loop antenna
* Multimeter (20 kΩ/V DC)
* 8 Ω resistor
* Screwdriver for alignment

Preparation

1. Multimeter Connection : To earphone jack with 8 Ω load resistor in parallel.
2. Modulation : FM --- 400 Hz, ± 22.5 kHz frequency modulated signal.
   AM --- 1 kHz 30%-amplitude modulated signal.
3. VOLUME Control Setting : Fully clockwise (MAX)
4. TONE Control Setting : Fully clockwise (H)

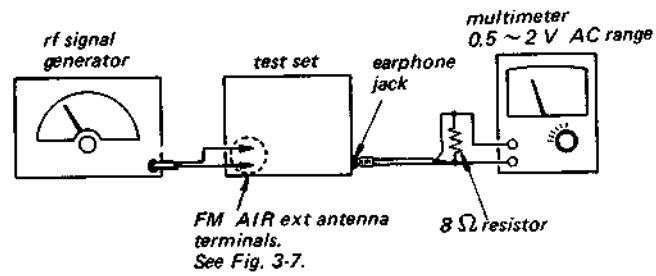


Fig. 3-10. FM/AIR frequency coverage and tracking adjustment setup

Adjustment	Rf Signal Generator Coupling	Rf Signal Generator Frequency	Receiver Dial Setting	Adjust (See Fig. 3-11)	Remarks
FM Frequency Coverage	Direct connection to FM AIR ext antenna terminals See Fig. 3-10.	86.5 MHz	Fully clockwise	FM osc coil L104	Band selector : FM (AFC : OFF) Adjust for maximum meter reading.
		109.5 MHz	Fully counter-clockwise	FM osc trimmer C1-8	
FM Tracking	The special test equipment required for this adjustment makes this strictly a factory adjustment.				
AIR Frequency Coverage	Direct connection to FM AIR ext antenna terminals See Fig. 3-10.	106.5 MHz	Fully clockwise	AIR osc coil L304	Band selector : AIR Adjust for maximum meter reading.
		138 MHz	Fully counter-clockwise	AIR osc trimmer C316	
AIR Tracking		106.5 MHz	Tune to 106.5 MHz signal	AIR rf coil L302	
		138 MHz	Tune to 138 MHz signal	AIR rf trimmer C308	

Note: FM frequency coverage is changed by adjusting osc coil (L104) and osc trimmer (C1-4) with the intended frequency signal from the rf signal generator.

Adjustment	Rf Signal Generator Coupling	Rf Signal Generator Frequency	Receiver Dial Setting	Adjust	Remarks
MW Frequency Coverage	Loop antenna See Fig. 3-1.	520 kHz	Fully clockwise	MW osc coil L201	Band selector : MW Adjust for maximum meter reading
MW Tracking		1,680 kHz	Fully counter-clockwise	MW osc trimmer C3-1	
		620 kHz	Tune to 620 kHz signal	MW ant coil L002	
		1,400 kHz	Tune to 1,400 kHz signal	MW ant trimmer C4-2	
BEACON Frequency Coverage		135 kHz	Fully clockwise	BEACON osc coil L202	Band selector : BEACON Adjust for maximum meter reading.
		420 kHz	Fully counter-clockwise	BEACON osc trimmer C3-2	
BEACON Tracking		200 kHz	Tune to 200 kHz signal	BEACON ant coil L001	
		350 kHz	Tune to 350 kHz signal	BEACON ant trimmer C4-1	

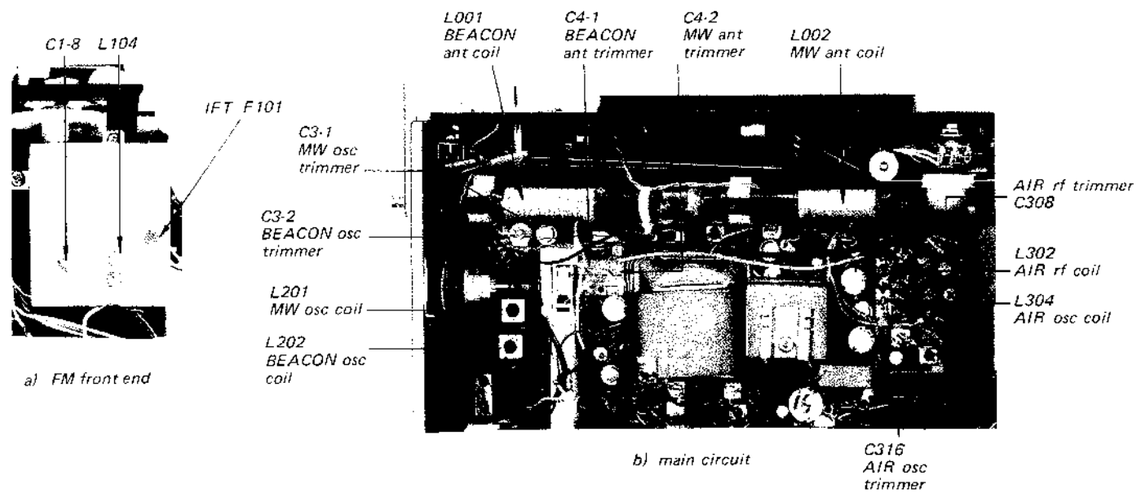


Fig. 3-11. Adjustment locations

3-4. VOLTAGE AND CURRENT ADJUSTMENT

1. Regulator Voltage

Part to be selected : R248
Band Selector : BEACON
Power Requirement : Dc 6 V
Adjustment : R248 must be selected to obtain 3.35~3.55 V at emitter of Q208.

R248	1-242-653	150 Ω
	1-242-655	180 Ω
	1-242-656	200 Ω
	1-242-657	220 Ω
	1-242-659	270 Ω

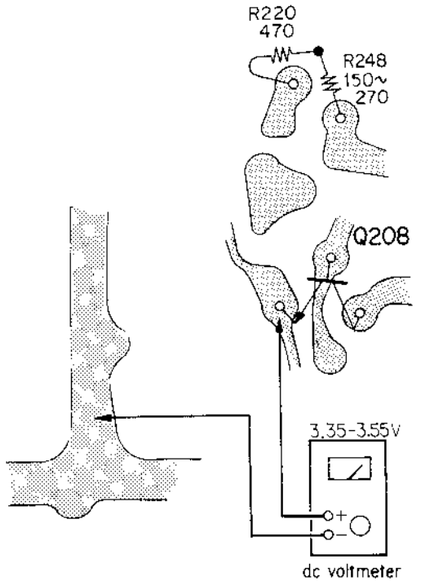


Fig. 3-12.

2. AM Current Adjustment

Part to be selected : R218
Band Selector : BEACON
Power Requirement : Dc 6 V
DF LEVEL Control : Rotate fully upward
Adjustment : R218 must be selected to obtain 0.08~0.1 V across R218.

R218	1-244-720	91 kΩ
	1-244-721	100 kΩ
	1-244-723	120 kΩ
	1-244-727	130 kΩ
	1-244-725	150 kΩ

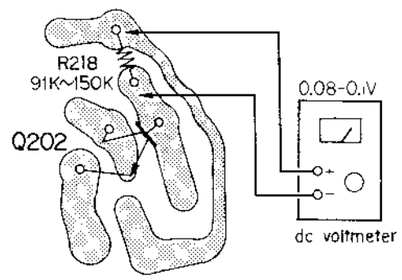
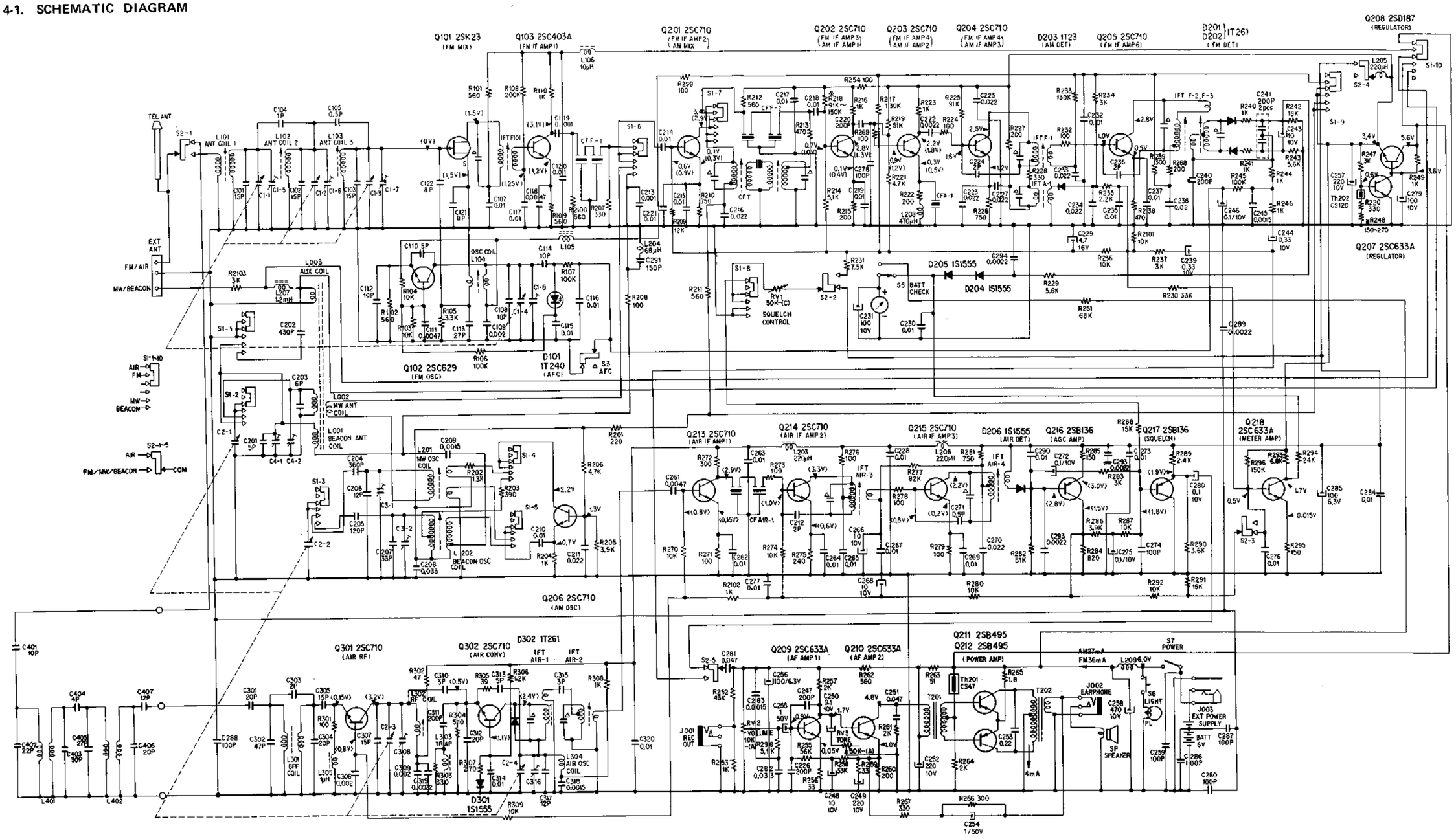


Fig. 3-13.

SECTION 4

SCHEMATIC AND MOUNTING DIAGRAMS

4-1. SCHEMATIC DIAGRAM

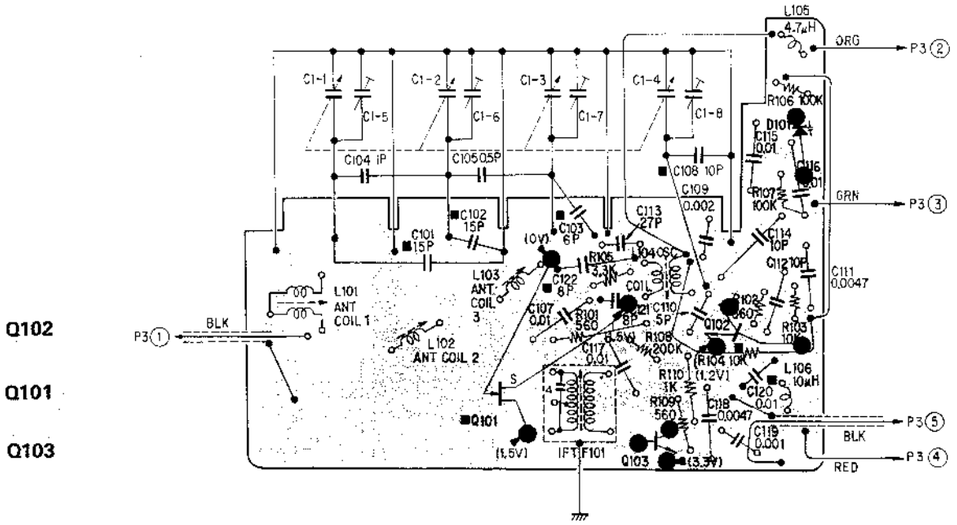


Notes:

1. All resistors and capacitors are in Ω and μF, unless otherwise indicated.
2. Capacitors marked △ are built in i-f transformers.
3. The symbol ※ indicates a component whose value is selected to yield specified operating condition.
4. Voltage value is measured to ground circuit with a dc voltmeter (20 kΩ/V) and current value is measured with a dc ammeter. Voltage and current are taken with no radio signal received. The values shown in ( ) with band selector set to FM and in < > with AIR. Variations may be noted due to normal production tolerances.

4-2. FM FROND END CIRCUIT BOARD (P1)

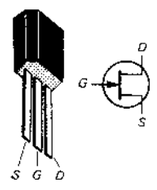
– Conductor Side –



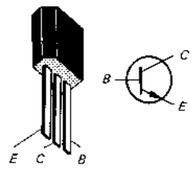
Printed Circuit Board
Part No. : 1-538-793-00

C101, C102, C103, C120, C122, Q101 and R104 marked with ■ are mounted on the conductor.

Q101; 2SK23



Q102; 2SC629
Q103; 2SC403A



D101; 1T240

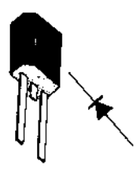
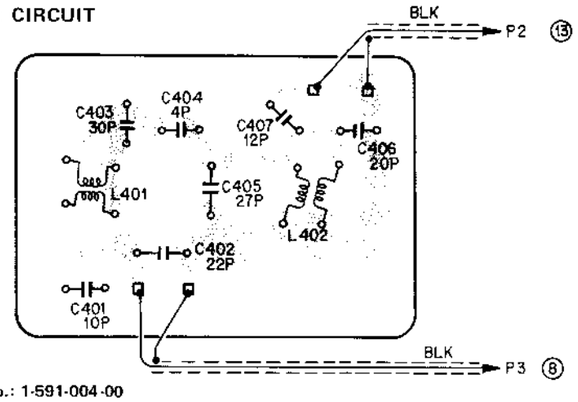


Fig. 4-2.

4-3. AIR BANDPASS FILTER CIRCUIT BOARD (P4)

– Conductor Side –

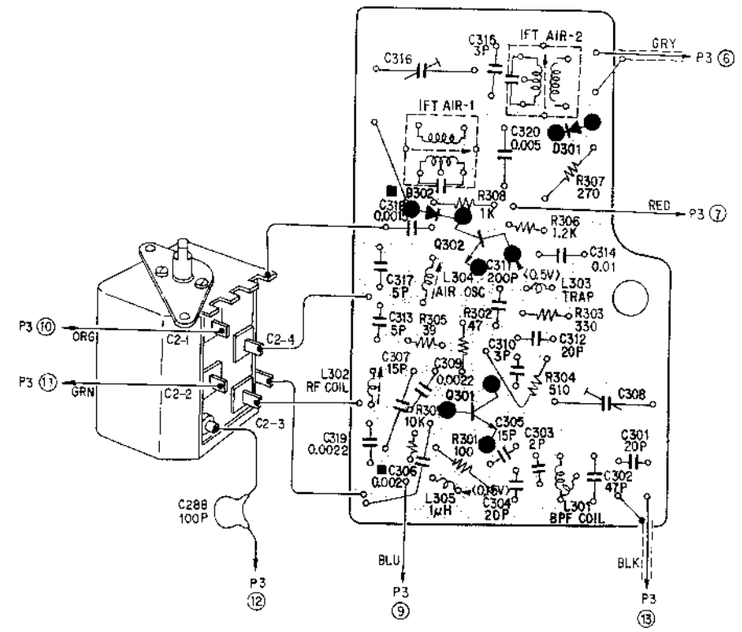


Printed Circuit Board Part No.: 1-591-004-00

Fig. 4-3.

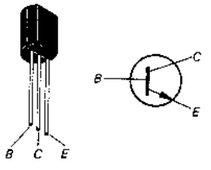
4-4. AIR FRONT END CIRCUIT BOARD (P2)

– Conductor Side –



Printed Circuit Board Part No.: 1-581-207-00
C306 and D302 marked with ■ are mounted on the conductor side.

Q301, Q302 ; 2SC710



D301; 1S1555
D302; 1T261

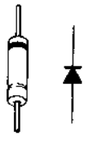
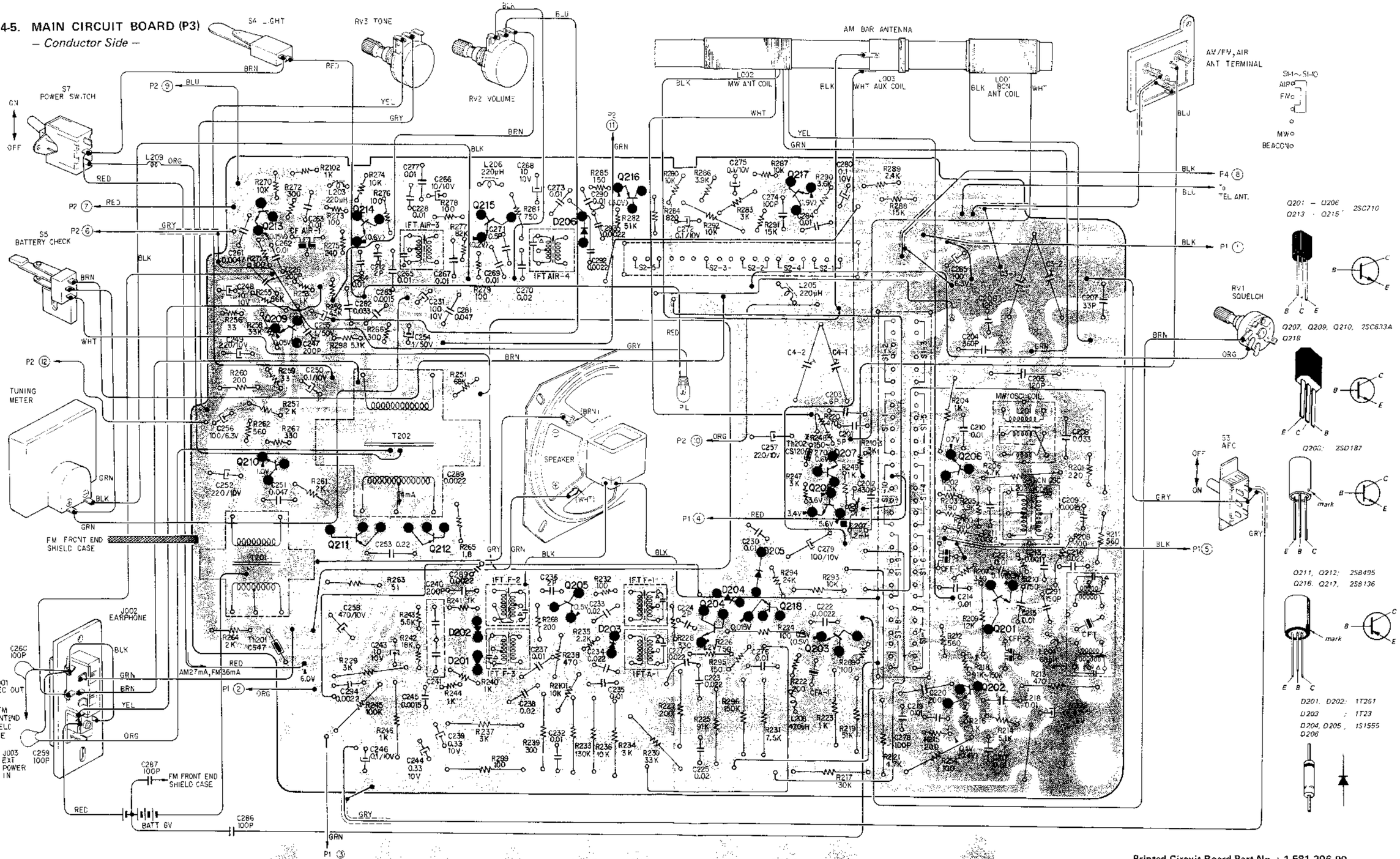


Fig. 4-4.

4-5. MAIN CIRCUIT BOARD (P3)

– Conductor Side –



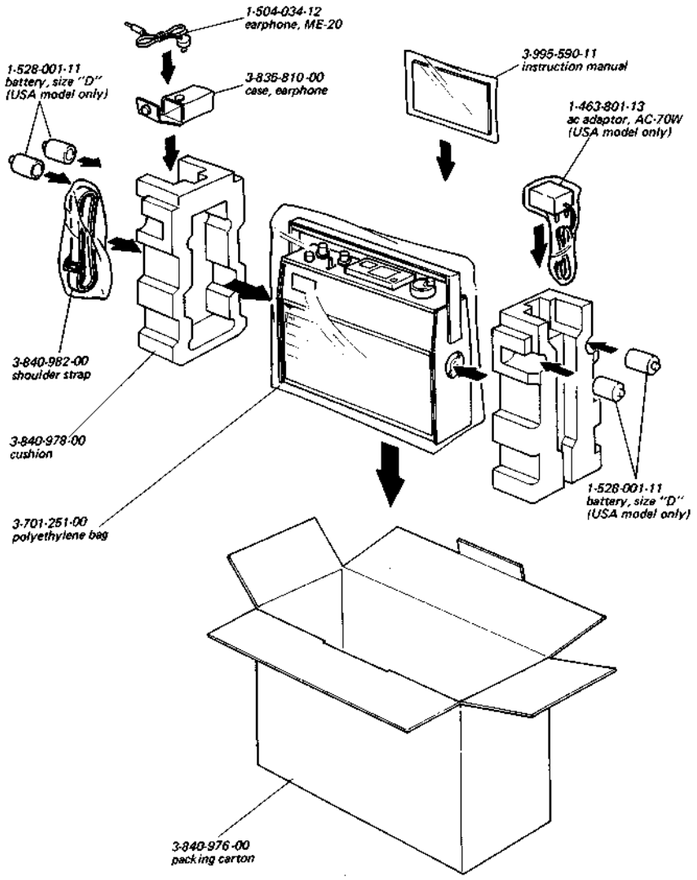
Q213 Q209 Q210 | **Q214 Q211** | **Q212** | **Q215** | **Q205** | **Q216** | **Q204** | **Q218** | **Q217 Q207 Q208 Q203** | **Q206 Q201 Q202**

Fig. 4-5.

Printed Circuit Board Part No. : 1-581-206-00
L207 marked with ■ is mounted on the conductor side.

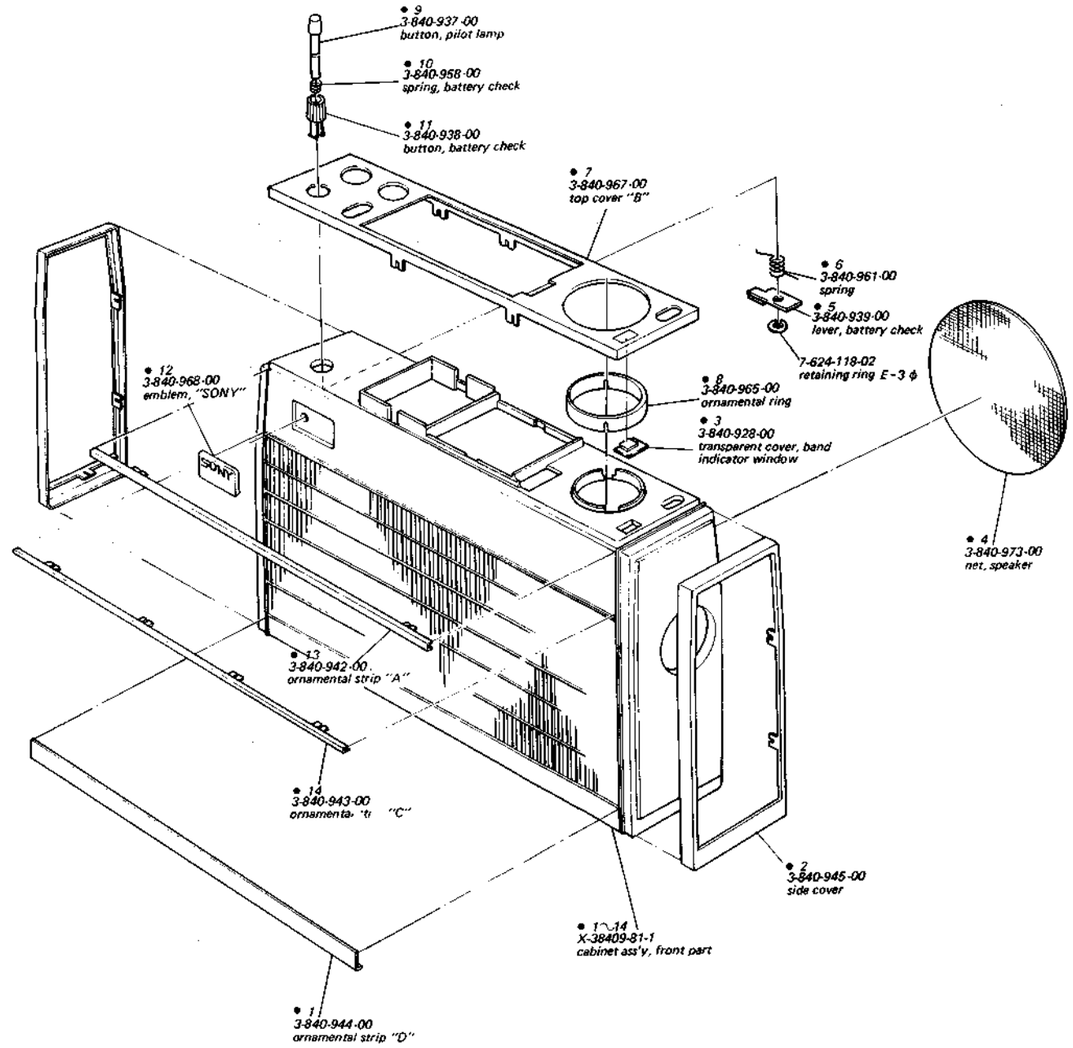
SECTION 5
PACKING AND EXPLODED VIEWS

5-1. PACKING

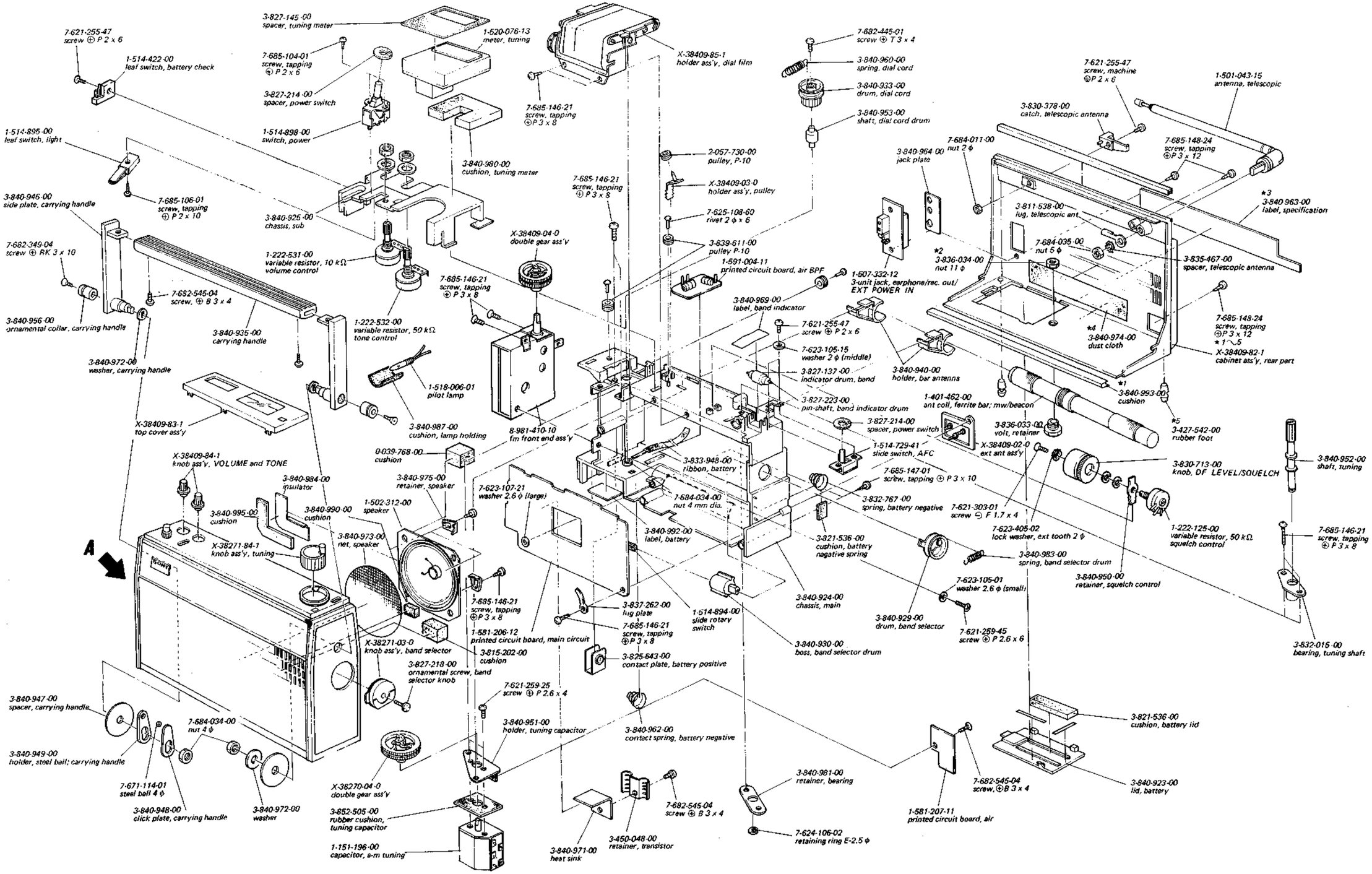


5-2. EXPLODED VIEW (1)
– Cabinet Ass'y –

DETAIL "A"



5-3. EXPLODED VIEW (2)



SECTION 6
ELECTRICAL PARTS LIST

Ref. No.	*Part No.*	*Description*

MOUNTED CIRCUIT BOARDS

8-981-410-10	FM front end ass'y
8-981-410-11	mounted circuit board, AIR front end
8-981-410-15	mounted circuit board, main circuit
8-981-410-17	mounted circuit board, AIR bandpass filter

SEMICONDUCTORS

Q101		transistor	2SK23
Q102		transistor	2SC629
Q103		transistor	2SC403A
Q201		transistor	2SC710
Q202		transistor	2SC710
Q203		transistor	2SC710
Q204		transistor	2SC710
Q205		transistor	2SC710
Q206		transistor	2SC710
Q207		transistor	2SC633A
Q208		transistor	2SD187
Q209		transistor	2SC633A
Q210		transistor	2SC633A
Q211		transistor	2SB495
Q212		transistor	2SB495
Q213		transistor	2SC710
Q214		transistor	2SC710
Q215		transistor	2SC710
Q216		transistor	2SB136
Q217		transistor	2SB136
Q218		transistor	2SC633A
Q301		transistor	2SC710
Q302		transistor	2SC710
D101		diode	1T240
D201		diode	1T261
D202		diode	1T261
D203		diode	1T23
D204		diode	1S1555
D205		diode	1S1555
D206		diode	1S1555
D301		diode	1S1555
D302		diode	1T261
Th201	1-800-191-00	thermistor	CS47
Th202	1-800-192-00	thermistor	CS120

COILS AND TRANSFORMERS

L001, 002	1-401-462	ant coil, ferrite bar; mw/beacon
L101	1-425-526	ant coil 1, fm
L102	1-425-525	ant coil 2, fm
L103	1-425-525	ant coil 3, fm
L104	1-405-386	osc coil, fm
L105	1-407-186	4.7 μH, micro inductor
L106	1-407-190	10 μH, micro inductor
L201	1-405-330	osc coil, mw
L202	1-405-482	osc coil, beacon
L203	1-407-173	220 μH, micro inductor
L204	1-407-167	68 μH, micro inductor
L205	1-407-173	220 μH, micro inductor
L206	1-407-173	220 μH, micro inductor
L207	1-407-196	1.2 mH, micro inductor
L208	1-407-177	470 μH, micro inductor
L209	1-421-006-14	coil, choke
L301	1-401-383	filter coil, air ant
L302	1-425-533-13	rf coil, air
L303	1-407-178	1 μH, micro inductor
L304	1-405-389	osc coil, air
L305	1-407-178	1 μH, micro inductor
L401	1-401-484-00	BPF coil, air
L402	1-401-484-00	BPF coil, air
IFT F101	1-403-294	transformer, fm i-f
IFT F1	1-403-244-31	transformer, fm i-f
IFT F2	1-403-272-31	transformer, fm discriminator
IFT F3	1-403-273-31	transformer, fm discriminator
IFT A1	1-403-137	transformer, a-m i-f
IFT AIR-1	1-403-242-31	transformer, air i-f
IFT AIR-2	1-403-243-31	transformer, air i-f
IFT AIR-3	1-403-244-31	transformer, air i-f
IFT AIR-4	1-403-555	transformer, air i-f
CF F-1	1-527-184-13	ceramic filter, fm i-f
CF F-2	1-527-184-13	ceramic filter, fm i-f
CF A-1	1-403-154	ceramic filter, a-m i-f
CFT	1-403-144	ceramic filter, a-m i-f
CF AIR-1	1-527-501-13	ceramic filter, air i-f
T201	1-423-072-21	transformer, driver
T202	1-427-290	transformer, output

CAPACITORS

All capacitors are in microfarads unless otherwise indicated.
(p = μμF; elect = electrolytic)

C101	1-101-861	15 p	ceramic
C102	1-101-861	15 p	ceramic
C103	1-101-861	15 p	ceramic
C104	1-101-937	1 p	ceramic
C105	1-101-936	0.5 p	ceramic
C106		----------	
C107	1-101-072	0.01	ceramic
C108	1-102-714	10 p	ceramic
C109	1-102-121	0.002	ceramic
C110	1-102-864	5 p	ceramic
C111	1-102-090	0.0047	ceramic

Ref. No.	Part No.	Description		
C112	1-102-508	10 p		ceramic
C113	1-101-869	27 p		ceramic
C114	1-101-976	10 p		ceramic
C115	1-101-072	0.01		ceramic
C116	1-101-072	0.01		ceramic
C117	1-101-072	0.01		ceramic
C118	1-105-829-12	0.0047		mylar
C119	1-101-918	0.001		ceramic
C120	1-101-072	0.01		ceramic
C121	1-101-958	8 p		ceramic
C122	1-101-958	8 p		ceramic
C201	1-102-942	5 p		ceramic
C202	1-107-243	430 p		silvered mica
C203	1-102-943	6 p		ceramic
C204	1-107-231	360 p		silvered mica
C205	1-107-087	120 p		silvered mica
C206	1-102-949	12 p		ceramic
C207	1-102-963	33 p		ceramic
C208	1-105-839-12	0.033		mylar
C209	1-105-663-12	0.0015		mylar
C210	1-105-833-12	0.01		mylar
C211	1-105-837-12	0.022		mylar
C212	1-102-576	1.5 p		ceramic
C213	1-105-821-12	0.001		mylar
C214	1-101-923	0.01		ceramic
C215	1-105-833-12	0.01		mylar
C216	1-105-837-12	0.022		mylar
C217	1-105-833-12	0.01		myalr
C218	1-101-923	0.01		ceramic
C219	1-105-833-12	0.01		myalr
C220	1-107-138	200 p		silvered mica
C221	1-105-833-12	0.01		mylar
C222	1-101-919	0.0022		ceramic
C223	1-105-837-12	0.022		mylar
C224	1-102-939	2 p		ceramic
C225	1-101-924	0.022		ceramic
C226	1-107-138	200 p		silvered mica
C227	1-105-837-12	0.022		mylar
C228	1-101-923	0.01		ceramic
C229	1-121-395	4.7	16 V	elect
C230	1-101-923	0.01		ceramic
C231	1-121-413	100	10 V	elect
C232	1-101-923	0.01		ceramic
C233	1-101-924	0.022		ceramic
C234	1-105-837-12	0.022		mylar
C235	1-105-833-12	0.01		mylar
C236	1-102-939	2 p		ceramic
C237	1-105-833-12	0.01		mylar
C238	1-101-924	0.02		ceramic
C239	1-127-021	0.33	10 V	solid aluminum
C240	1-107-138	200 p		silvered mica
C241	1-107-255-11	encapsulated component 200 p x 2		
C242		----------		

Ref. No.	Part No.	Description		
C243	1-121-469	10	10 V	elect
C244	1-127-021	0.33	10 V	solid aluminum
C245	1-105-837-12	0.0015		mylar
C246	1-127-019	0.1	10 V	solid aluminum
C247	1-107-138	200 p		silvered mica
C248	1-121-469	10	10 V	elect
C249	1-121-420	220	10 V	elect
C250	1-127-019	0.1	10 V	solid aluminum
C251	1-105-841-12	0.047		mylar
C252	1-121-420	220	10 V	elect
C253	1-105-849-12	0.22		mylar
C254	1-121-391	1	50 V	elect
C255	1-121-391	1	50 V	elect
C256	1-121-413	100	6.3 V	elect
C257	1-121-420	220	10 V	elect
C258	1-121-425	470	10 V	elect
C259	1-102-975	100 p		ceramic
C260	1-102-975	100 p		ceramic
C261	1-101-922	0.0047		ceramic
C262	1-105-833-12	0.01		mylar
C263	1-101-923	0.01		ceramic
C264	1-105-833-12	0.01		mylar
C265	1-105-833-12	0.01		mylar
C266	1-121-469	10	10 V	elect
C267	1-101-923	0.01		ceramic
C268	1-121-469	10	10 V	elect
C269	1-105-833-12	0.01		mylar
C270	1-101-924	0.022		ceramic
C271	1-101-837	0.5 p		ceramic
C272	1-127-019	0.1	10 V	solid aluminum
C273	1-105-833-12	0.01		mylar
C274	1-105-843-12	0.068		mylar
C275	1-127-019	0.1	10 V	solid aluminum
C276	1-101-923	0.01		ceramic
C277	1-105-833-12	0.01		mylar
C278	1-102-975	100 p		ceramic
C279	1-121-413	100	10 V	elect
C280	1-127-019	0.1	10 V	solid aluminum
C281	1-105-841-12	0.047		mylar
C282	1-105-839-12	0.033		mylar
C283	1-105-663-12	0.0015		mylar
C284	1-101-923	0.01		ceramic
C285	1-121-413	100	6.3 V	elect
C286	1-102-973	100 p		ceramic
C287	1-102-973	100 p		ceramic
C288	1-102-973	100 p		ceramic
C289	1-105-825-12	0.0022		mylar
C290	1-105-833-12	0.01		mylar
C291	1-107-137	150 p		silvered mica
C292	1-101-919	0.0022		ceramic
C293	1-101-919	0.0022		ceramic
C294	1-101-919	0.0022		ceramic
C301	1-102-958	20 p		ceramic

Ref. No.	Part No.	Description	
C302	1-102-880	47 p	ceramic
C303	1-102-939	2 p	ceramic
C304	1-102-958	20 p	ceramic
C305	1-102-951	15 p	ceramic
C306	1-101-919	0.0022	ceramic
C307	1-102-951	15 p	ceramic
C308	1-141-097-21	capacitor, trimmer	
C309	1-101-919	0.0022	ceramic
C310	1-102-940	3 p	ceramic
C311	1-107-138-11	200 p	silvered mica
C312	1-102-958	20 p	ceramic
C313	1-101-997	5 p	ceramic
C314	1-101-923	0.01	ceramic
C315	1-102-940	3 p	ceramic
C316	1-141-097-21	capacitor, trimmer	
C317	1-102-749	12 p	ceramic
C318	1-105-823-12	0.0015	mylar
C319	1-101-919	0.0022	ceramic
C320	1-101-923	0.01	ceramic
C401	1-102-947	10 p	ceramic
C402	1-102-959	22 p	ceramic
C403	1-102-962	30 p	ceramic
C404	1-102-941	4 p	ceramic
C405	1-102-961	27 p	ceramic
C406	1-102-958	20 p	ceramic
C407	1-102-949	12 p	ceramic
C1-1～C1-8	1-151-223-12	capacitor, fm tuning	
C2-1～C2-4	1-151-196	capacitor, a-m tuning	
C3-1～C3-2	1-141-011	capacitor, trimmer 2 gang	
C4-1～C4-2	1-141-011	capacitor, trimmer 2 gang	

RESISTORS

All resistors are in ohms, ± 5 %, ¼ W, carbon type unless otherwise indicated. (k = 1000)

R101	1-208-027	560	1/16 W	ceramic
R102	1-208-027	560	1/16 W	ceramic
R103	1-244-697	10 k		
R104	1-244-697	10 k		
R105	1-208-045	3.3 k	1/16 W	ceramic
R106	1-208-145	100 k	1/16 W	ceramic
R107	1-208-145	100 k	1/16 W	ceramic
R108	1-208-088	200 k	1/16 W	ceramic
R109	1-208-027	560	1/16 W	ceramic
R110	1-208-033	1 k	1/16 W	ceramic
R201	1-242-657	220		
R202	1-242-676	1.3 k		
R203	1-242-663	390		
R204	1-244-673	1 k		
R205	1-242-687	3.9 k		
R206	1-242-689	4.7 k		
R207	1-242-661	330		

Ref. No.	Part No.	Description
R208	1-242-649	100
R209	1-242-699	12 k
R210	1-242-670	750
R211	1-242-667	560
R212	1-242-667	560
R213	1-244-665	470
R214	1-242-690	5.1 k
R215	1-242-656	200
R216	1-242-673	1 k
R217	1-244-724	130 k
※ R218	1-244-720	91 k
	1-244-721	100 k
	1-244-723	120 k
	1-244-724	130 k
	1-244-725	150 k
R219	1-242-714	51 k
R220	1-244-661	330
R221	1-244-689	4.7 k
R222	1-242-656	200
R223	1-244-673	1 k
R224	1-244-649	100
R225	1-244-720	91 k
R226	1-242-670	750
R227	1-244-656	200
R228	1-242-661	330
R229	1-242-684	3 k
R230	1-244-709	33 k
R231	1-244-694	7.5 k
R232	1-242-640	100
R233	1-244-724	130 k
R234	1-244-684	3 k
R235	1-244-681	2.2 k
R236	1-244-697	10 k
R237	1-244-684	3 k
R238	1-244-665	470
R239	1-242-669	300
R240	1-242-673	1 k
R241	1-242-673	1 k
R242	1-242-703	18 k
R243	1-242-691	5.6 k
R244	1-244-673	1 k
R245	1-244-721	100 k
R246	1-244-673	1 k
R247	1-242-684	3 k
※ R248	1-242-653	150
	1-242-655	180
	1-242-656	200
	1-242-657	220
	1-242-659	270
R249	1-242-673	1 k
R250	1-242-701	15 k
R251	1-242-717	68 k
R252	1-242-712	43 k

Ref. No.	Part No.	Description
R253	1-242-673	1 k
R254	1-244-649	100
R255	1-242-715	56 k
R256	1-242-637	33
R257	1-242-680	2 k
R258	1-242-709	33 k
R259	1-242-637	33
R260	1-242-656	200
R261	1-242-680	2 k
R262	1-242-667	560
R263	1-242-642	51
R264	1-242-680	2 k
R265	1-242-607	1.8
R266	1-242-660	300
R267	1-242-661	330
R268	1-242-656	200
R269	1-242-649	100
R270	1-242-697	10 k
R271	1-242-649	100
R272	1-242-660	300
R273	1-242-649	100
R274	1-242-697	10 k
R275	1-242-658	240
R276	1-242-649	100
R277	1-242-719	82 k
R278	1-242-649	100
R279	1-242-649	100
R280	1-240-697	10 k
R281	1-242-670	750
R282	1-244-714	51 k
R283	1-242-684	3 k
R284	1-244-671	820
R285	1-242-653	150
R286	1-242-687	3.9 k
R287	1-242-697	10 k
R288	1-242-701	15 k
R289	1-242-682	2.4 k
R290	1-242-686	3.6 k
R291	1-242-701	15 k
R292	1-242-697	10 k
R293	1-242-693	6.8 k
R294	1-242-706	24 k
R295	1-242-653	150
R296	1-242-725	150 k
R297		----------
R298	1-242-690	5.1 k
R299	1-244-649	100
R2100	1-244-667	560
R2101	1-242-697	10 k
R2102	1-242-673	1 k
R2103	1-244-684	3 k
R301	1-242-649	100
R302	1-242-641	47
R303	1-242-661	330
R304	1-242-666	510
R305	1-242-639	39
R306	1-242-675	1.2 k
R307	1-242-659	270
R308	1-242-673	1 k
R309	1-242-697	10 k
RV1	1-222-125	variable resistor 50 k-(C) squelch control
RV2	1-222-531	variable resistor 10 k-(A) VOLUME control
RV3	1-222-532	variable resistor 50 k-(A) TONE control

MISCELLANEOUS

TEL ANT	1-501-043-15	antenna, telescopic
SP 1	1-502-312	speaker
J001 ~ 003	1-507-332-12	3-unit jack
S1	1-514-894	slide rotary switch, band selector
S2	1-514-453-21	slide switch, band selector
S3	1-514-729-41	slide switch, AFC
S4		----------
S5	1-514-422	leaf switch, battery check
S6	1-514-895	leaf switch, light
S7	1-514-898	switch, power
TM	1-520-076-13	meter, tuning
PL	1-518-006-01	pilot lamp
	1-538-793-12	printed circuit board, fm front end
	1-581-207-11	printed circuit board, air
	1-581-206-12	printed circuit board, main circuit
	1-506-108-31	pin, antenna terminal
	1-591-004-11	printed circuit board, air bandpass filter

SONY CORPORATION

2F0575-1

Printed in Japan

SONY®

NEW

Complete Spare Parts List

Model TFM-8600W

General Export Model

USA Model: Serial No. 13,501 and later

"IMPORTANT"

When ordering parts, please do not fail to furnish us the following:

1. Part Number
2. Model Name
3. Description as mentioned in this parts list

We are now using EDPS (Electronic Data Processing System) in all the departments concerned, for procurement, inventory control, packing, warehousing, etc. Your orders are processed mainly from the PART NUMBERS referred by you. Incorrect part numbers, therefore, will result in incorrect parts shipment. To assure prompt shipment of correct parts, your cooperation will be appreciated.

NOTE:

Prices are subject to change without notice.

SONY CORPORATION

COMPLETE SPARE PARTS LIST FOR TFM-8600W

General Export Model

USA Model
(Serial No. 13,501 and later) JULY, 1972

Part No.	Description	Unit Price
	A. MECHANICAL PARTS	
X-38409-02	Ext Ant. Ass'y	$0.17
X-38409-03	Holder Ass'y, pulley	0.05
X-38270-04	Double Gear Ass'y	0.06
X-38271-03	Knob Ass'y, band selector	0.31
X-38409-81-1	Cabinet Ass'y, front part; including	3.88
3-840-939	Lever, battery check	0.01
3-840-943	Ornamental Strip "C"	0.10
3-840-944	Ornamental Strip "D"	0.07
3-840-942	Ornamental Strip "A"	0.08
3-840-937	Button, pilot lamp	0.03
3-840-938	Button, battery check	0.03
3-840-958	Spring, battery check	0.01
3-840-973	Net, speaker	0.02
3-840-961	Spring	0.01
3-840-968	Emblem, "SONY"	0.12
3-840-928	Transparent Cover, band indicator window	0.03
3-840-945	Side Cover	0.24
3-840-965	Ornamental Ring	0.12
3-840-967	Top Cover B	0.60
X-38409-82-1	Cabinet Ass'y, rear part; including	1.70
3-427-542	Rubber Foot	0.02
3-840-963	Label, specification	0.19
3-849-993	Cushion	0.02
3-836-033	Screw	0.23
3-836-034	Nut, 11 mm dia	0.10
	* * *	
X-38409-83-1	Top Cover Ass'y	0.65
X-38409-84-1	Knob Ass'y, VOLUME and TONE	0.06
X-38409-85-1	Holder Ass'y, dial film	1.10
X-38271-84-1	Knob Ass'y, tuning	0.25
3-811-538	Lug, telescopic ant	0.01
3-825-643	Contact Plate, battery positive	0.04
3-827-137	Indicator Drum, band	0.60
3-827-145	Spacer, tuning meter	0.01
3-827-214	Spacer, power switch	0.01
3-827-218	Ornamental Screw, band selector knob	0.04
3-827-223	Pin-shaft, band indicator drum	0.01

Part No.	Description	Unit Price
3-830-378	Catch, telescopic antenna	$0.02
3-830-713	Knob, DF LEVEL/SQUELCH	0.04
3-832-015	Bearing, tuning shaft	0.02
3-832-767	Spring, battery negative	0.03
3-833-948	Ribbon, battery	0.02
3-835-467	Spacer, telescopic antenna	0.02
3-837-262	Lug Plate	0.01
3-839-611	Pulley P-10	0.01
3-852-505	Rubber Cushion, tuning capacitor	0.04
4-006-255	Check Pin	0.01
3-840-923	Lid, battery	0.06
3-840-924	Chassis, main	0.35
3-840-925	Chassis, sub	0.08
3-840-929	Drum, band selector	0.03
3-840-930	Boss, band selector drum	0.06
3-840-933	Drum, dial cord	0.03
3-840-934	- discarded -	-
3-840-935	Carrying Handle	0.10
3-840-936	Lever, switch	0.03
3-840-940	Holder, bar antenna	0.03
3-840-946	Side Plate, carrying handle	0.29
3-840-947	Spacer, carrying handle	0.01
3-840-948	Click Plate, carrying handle	0.01
3-840-949	Holder, steel ball; carrying handle	0.01
3-840-950	Retainer, squelch control	0.01
3-840-951	Holder, tuning capacitor	0.01
3-840-952	Shaft, tuning	0.09
3-840-953	Shaft, dial drum	0.05
3-840-955	- discarded -	-
3-840-956	Ornamental Collar, carrying handle	0.06
3-840-957	Holder, switch lever	0.02
3-840-960	Spring, dial cord	0.02
3-840-962	Contact Spring, battery negative	0.03
3-840-964	Jack Plate	0.04
3-840-966	Spacer, jack plate	0.01
3-840-969	Label, band indicator	0.02
3-840-971	Heat Sink	0.05
3-840-972	Washer, carrying handle	0.01
3-840-975	Retainer, speaker	0.02
3-840-980	Cushion, tuning meter	0.01
3-840-981	Retainer, bearing	0.03
3-840-983	Spring, band selector drum	0.01
3-840-984	Insulator	0.03
3-821-536	Cushion, battery lid	0.01
3-836-033	Belt, retainer	0.24

Part No.	Description	Unit Price
3-840-987	Cushion, lamp holder	$0.02
3-840-992	Label, battery	0.03
3-837-695	Retainer, transistor	0.02

B. SCREWS, NUTS, WASHERS AND MISCELLANEOUS (Per 100)

7-621-255-15	Screw (+) P 2 x 3	0.13/100
7-621-255-47	Screw (+) P 2 x 6	0.59/100
7-621-259-25	Screw (+) P 2.6 x 4	0.15/100
7-621-259-45	Screw (+) P 2.6 x 6	0.10/100
7-621-303-01	Screw (-) F 1.7 x 4	1.42/100
7-682-349-04	Screw (+) RK 3 x 10	0.55/100
7-682-445-01	Screw (+) T 3 x 4	0.25/100
7-685-104-01	Screw, tapping (+) P 2 x 6	0.26/100
7-685-106-01	Screw, tapping (+) P 2 x 10	0.26/100
7-685-145-21	Screw, tapping (+) P 3 x 6	0.26/100
7-685-146-21	Screw, tapping (+) P 3 x 8	0.25/100
7-685-148-24	Screw, tapping (+) P 3 x 12	0.55/100
7-682-545-04	Screw (+) B 3 x 4	0.31/100
7-623-105-01	Washer 2 ϕ (small)	0.06/100
7-623-105-15	Washer 2 ϕ (middle)	0.06/100
7-623-107-21	Washer 2.6 ϕ (large)	0.10/100
7-623-405-02	Lock Washer, ext tooth 2 ϕ	0.17/100
7-624-106-02	Retaining Ring E-2.5 ϕ	0.39/100
7-624-118-02	Retaining Ring E-3 ϕ	0.39/100
7-671-114-01	Steel Ball 4 ϕ	0.25/100
7-684-011	Nut 2 ϕ	0.48/100
7-684-034	Nut 4 ϕ	0.25/100
7-684-035	Nut 5 ϕ	0.26/100
7-625-108-61	Rivet 2 ϕ x 6	0.15/100

Note: ϕ indicates mm dia.

Ref. No.	Part No.	Description	Unit Price
		C. ELECTRICAL PARTS	
		Mounted Circuit Boards	
	8-981-410-11	Mounted Circuit Board, AIR front end	$4.70
	8-981-410-15	Mounted Circuit Board, main circuit	22.95
	8-981-410-17	Mounted Circuit Board, AIR band pass filter	0.50
		Semiconductors	
Q101		Transistor, 2SK23	0.42
Q102		Transistor, 2SC629	0.25
Q103		Transistor, 2SC403A	0.14
Q201		Transistor, 2SC710	0.12
Q202		Transistor, 2SC710	0.12
Q203		Transistor, 2SC710	0.12
Q204		Transistor, 2SC710	0.12
Q205		Transistor, 2SC710	0.12
Q206		Transistor, 2SC710	0.12
Q207		Transistor, 2SC633A	0.14
Q208		Transistor, 2SD187	0.18
Q209		Transistor, 2SC633A	0.14
Q210		Transistor, 2SC633A	0.14
Q211		Transistor, 2SB495	0.18
Q212		Transistor, 2SB495	0.18
Q213		Transistor, 2SC710	0.12
Q214		Transistor, 2SC710	0.12
Q215		Transistor, 2SC710	0.12
Q216		Transistor, 2SB136	0.12
Q217		Transistor, 2SB136	0.12
Q218		Transistor, 2SC633A	0.14
Q301		Transistor, 2SC710	0.12
Q302		Transistor, 2SC710	0.12
D101		Diode, 1T240	0.05
D201		Diode, 1T261	0.05
D202		Diode, 1T261	0.05
D203		Diode, 1T23	0.05
D204		Diode, 1S1555	0.07
D205		Diode, 1S1555	0.07
D206		Diode, 1S1555	0.07
D301		Diode, 1S1555	0.07
D302		Diode, 1T261	0.05
Th201	1-800-191-00	Thermistor, CS47	0.04
Th202	1-800-192-00	Thermistor, CS120	0.04

Ref. No.	Part No.	Description	Unit Price
		Coils and Transformers	
L001,002	1-401-462	Ant Coil, ferrite bar; mw/beacon	$0.43
L101	1-425-526	Ant Coil,1, fm	0.05
L102	1-425-525	Ant Coil 2, fm	0.04
L103	1-425-525	Ant Coil 3, fm	0.04
L104	1-405-386	Osc Coil, fm	0.05
L105	1-407-186	4.7 µH, micro inductor	0.04
L106	1-407-190	10 µH, micro inductor	0.04
L201	1-405-330	Osc Coil, mw	0.14
L202	1-405-482	Osc Coil, beacon	0.10
L203	1-407-173	220 µH, micro inductor	0.03
L204	1-407-167	68 µH, micro inductor	0.03
L205	1-407-173	220 µH, micro inductor	0.03
L206	1-407-173	220 µH, micro inductor	0.03
L207	1-407-196	1.2 mH, micro inductor	0.03
L208	1-407-177	470 µH, micro inductor	0.03
L209	1-421-006-14	Coil, choke	0.07
L301	1-401-383	Filter Coil, air ant	0.05
L302	1-425-533-13	Rf Coil, air	0.05
L303	1-407-178	1 µH, micro inductor	0.04
L304	1-405-389	Osc Coil, air	0.02
L305	1-407-178	1 µH, micro inductor	0.04
L401	1-401-484-00	BPF Coil, air	0.06
L402	1-401-484-00	BPF Coil, air	0.06
IFT F101	1-403-294	Transformer, fm i-f	0.13
IFT F1	1-403-244-31	Transformer, fm i-f	0.13
IFT F2	1-403-272-31	Transformer, fm discriminator	0.13
IFT F3	1-403-273-31	Transformer, fm discriminator	0.13
IFT A1	1-403-137	Transformer, a-m i-f	0.11
IFT AIR-1	1-403-242-31	Transformer, air i-f	0.14
IFT AIR-2	1-403-243-31	Transformer, air i-f	0.13
IFT AIR-3	1-403-244-31	Transformer, air i-f	0.13
IFT AIR-4	1-403-555	Transformer, air i-f	0.13
CF F-1	1-527-184-13	Ceramic Filter, fm i-f	0.12
CF F-2	1-527-184-13	Ceramic Filter, fm i-f	0.12
CF A-1	1-403-154	Ceramic Filter, a-m i-f	0.10
CFT	1-403-144	Ceramic Filter, a-m i-f	0.23
CF AIR-1	1-527-501-13	Ceramic Filter, air i-f	0.29
T201	1-423-072-21	Transformer, driver	0.17
T202	1-427-290	Transformer, output	0.28

Ref. No.	Part No.	Description		Unit Price
		Capacitors		
C101	1-101-861	15 pF	ceramic	$0.02
C102	1-101-861	15 pF	ceramic	0.02
C103	1-101-861	15 pF	ceramic	0.02
C104	1-101-937	1 pF	ceramic	0.03
C105	1-101-936	0.5 pF	ceramic	0.03
C106	-	-		-
C107	1-101-072	0.01 µF	ceramic	0.02
C108	1-102-714	10 pF	ceramic	0.02
C109	1-102-121	0.002 µF	ceramic	0.03
C110	1-102-864	5 pF	ceramic	0.02
C111	1-102-090	0.0047 µF	ceramic	0.02
C112	1-102-508	10 pF	ceramic	0.03
C113	1-101-869	27 pF	ceramic	0.02
C114	1-101-976	10 pF	ceramic	0.02
C115	1-101-072	0.01 µF	ceramic	0.02
C116	1-101-072	0.01 µF	ceramic	0.02
C117	1-101-072	0.01 µF	ceramic	0.02
C118	1-105-829-12	0.0047 µF	mylar	0.02
C119	1-101-918	0.001 µF	ceramic	0.02
C120	1-101-072	0.01 µF	ceramic	0.02
C121	1-101-958	8 pF	ceramic	0.02
C122	1-101-958	8 pF	ceramic	0.02
C201	1-102-942	5 pF	ceramic	0.02
C202	1-107-243	430 pF	silvered mica	0.03
C203	1-102-943	6 pF	ceramic	0.02
C204	1-107-231	360 pF	silvered mica	0.02
C205	1-107-087	120 pF	silvered mica	0.02
C206	1-102-949	12 pF	ceramic	0.02
C207	1-102-963	33 pF	ceramic	0.02
C208	1-105-839-12	0.033 µF	mylar	0.02
C209	1-105-663-12	0.0015 µF	mylar	0.02
C210	1-105-833-12	0.01 µF	mylar	0.02
C211	1-105-837-12	0.022 µF	mylar	0.02
C212	1-102-576	1.5 pF	ceramic	0.02
C213	1-105-821-12	0.001 µF	mylar	0.02
C214	1-101-923	0.01 µF	ceramic	0.02
C215	1-105-833-12	0.01 µF	mylar	0.02
C216	1-105-837-12	0.022 µF	mylar	0.02
C217	1-105-833-12	0.01 µF	mylar	0.02
C218	1-101-923	0.01 µF	ceramic	0.02
C219	1-105-833-12	0.01 µF	mylar	0.02

Ref. No.	Part No.	Description		Unit Price
C220	1-107-138	200 pF	silvered mica	$0.02
C221	1-105-833-12	0.01 µF	mylar	0.02
C222	1-101-919	0.0022 µF	ceramic	0.02
C223	1-105-837-12	0.022 µF	mylar	0.02
C224	1-102-939	2 pF	ceramic	0.02
C225	1-101-924	0.022 µF	ceramic	0.02
C226	1-107-138	200 pF	silvered mica	0.02
C227	1-105-837-12	0.022 µF	mylar	0.06
C228	1-101-923	0.01 µF	ceramic	0.02
C229	1-121-395	4.7 µF/16 V	electrolytic	0.07
C230	1-101-923	0.01 µF	ceramic	0.02
C231	1-121-413	100 µF/10 V	electrolytic	0.05
C232	1-101-923	0.01 µF	ceramic	0.02
C233	1-101-924	0.022 µF	ceramic	0.02
C234	1-105-837-12	0.022 µF	mylar	0.02
C235	1-105-833-12	0.01 µF	mylar	0.02
C236	1-102-939	2 pF	ceramic	0.02
C237	1-105-833-12	0.01 µF	mylar	0.02
C238	1-101-924	0.02 µF	ceramic	0.02
C239	1-127-021	0.33 µF/10 V	solid aluminum	0.06
C240	1-107-138	200 pF	silvered mica	0.02
C241	1-107-255-11	Encapsulated Component 200 P x 2		0.02
C242	-		-	-
C243	1-121-469	10 µF/10 V	electrolytic	0.03
C244	1-127-021	0.33 µF/10 V	solid aluminum	0.06
C245	1-105-837-12	0.0015 µF	mylar	0.02
C246	1-127-019	0.1 µF/10 V	solid aluminum	0.06
C247	1-107-138	200 pF	silvered mica	0.02
C248	1-121-469	10 µF/10 V	electrolytic	0.03
C249	1-121-420	220 µF/10 V	electrolytic	0.07
C250	1-127-019	0.1 µF/10 V	solid aluminum	0.06
C251	1-105-841-12	0.047 µF	mylar	0.02
C252	1-121-420	220 µF/10 V	electrolytic	0.07
C253	1-105-849-12	0.22 µF	mylar	0.02
C254	1-121-391	1 µF/50 V	electrolytic	0.03
C255	1-121-391	1 µF/50 V	electrolytic	0.03
C256	1-121-413	100 µF/6.3 V	electrolytic	0.05
C257	1-121-420	220 µF/10 V	electrolytic	0.07
C258	1-121-425	470 µF/10 V	electrolytic	0.12
C259	1-102-975	100 pF	ceramic	0.02
C260	1-102-975	100 pF	ceramic	0.02
C261	1-101-922	0.0047 µF	ceramic	0.02
C262	1-105-833-12	0.01 µF	mylar	0.02
C263	1-101-923	0.01 µF	ceramic	0.02

Ref. No.	Part No.	Description		Unit Price
C264	1-105-833-12	0.01 µF	mylar	$0.02
C265	1-105-833-12	0.01 µF	mylar	0.02
C266	1-121-469	10 µF/10 V	electrolytic	0.03
C267	1-101-923	0.01 µF	ceramic	0.02
C268	1-121-469	10 µF/10 V	electrolytic	0.03
C269	1-105-833-12	0.01 µF	mylar	0.02
C270	1-101-924	0.022 µF	ceramic	0.02
C271	1-101-837	0.5 pF	ceramic	0.02
C272	1-127-019	0.1 µF/10 V	solid aluminum	0.06
C273	1-105-833-12	0.01 µF	mylar	0.02
C274	1-105-843-12	0.068 µF	mylar	0.02
C275	1-127-019	0.1 µF/10 V	solid aluminum	0.06
C276	1-101-923	0.01 µF	ceramic	0.02
C277	1-105-833-12	0.01 µF	mylar	0.02
C278	1-102-975	100 pF	ceramic	0.02
C279	1-121-413	100 µF/10 V	electrolytic	0.05
C280	1-127-019	0.1 µF/10 V	solid aluminum	0.06
C281	1-105-841-12	0.047 µF	mylar	0.02
C282	1-105-839-12	0.033 µF	mylar	0.02
C283	1-105-663-12	0.0015 µF	mylar	0.02
C284	1-101-923	0.01 µF	ceramic	0.02
C285	1-121-413	100 µF/6.3 V	electrolytic	0.05
C286	1-102-973	1000 pF	ceramic	0.02
C287	1-102-973	100 pF	ceramic	0.02
C288	1-102-973	100 pF	ceramic	0.02
C289	1-105-825-12	0.0022 µF	mylar	0.02
C290	1-105-833-12	0.01 µF	mylar	0.02
C291	1-107-137	150 pF	silvered mica	0.02
C292	1-101-919	0.0022 µF	ceramic	0.02
C301	1-102-958	20 pF	ceramic	0.02
C302	1-102-880	47 pF	ceramic	0.03
C303	1-102-939	2 pF	ceramic	0.03
C304	1-102-958	20 pF	ceramic	0.02
C305	1-102-951	15 pF	ceramic	0.02
C306	1-101-919	0.0022 µF	ceramic	0.02
C307	1-102-951	15 pF	ceramic	0.02
C308	1-141-097-21	Capacitor, trimmer		0.05
C309	1-101-919	0.0022 µF	ceramic	0.02
C310	1-102-940	3 pF	ceramic	0.02
C311	1-107-138-11	200 pF	silvered mica	0.02
C312	1-102-958	20 pF	ceramic	0.02
C313	1-101-997	5 pF	ceramic	0.03
C314	1-101-923	0.01 µF	ceramic	0.02
C315	1-102-940	3 pF	ceramic	0.02
C292	1-101-919	0.0022 µF	ceramic	0.02
C293	1-101-919	0.0022 µF	ceramic	0.02

Ref. No.	Part No.	Description	Unit Price
C316	1-141-097-21	Capacitor, trimmer	$0.05
C317	1-102-749	12 pF ceramic	0.03
C318	1-105-823-12	0.0015 µF mylar	0.02
C319	1-101-919	0.0022 µF ceramic	0.02
C320	1-101-923	0.01 µF ceramic	0.02
C401	1-102-947	10 pF ceramic	0.02
C402	1-102-959	22 pF ceramic	0.02
C403	1-102-962	30 pF ceramic	0.02
C404	1-102-941	4 pF ceramic	0.02
C405	1-102-961	27 pF ceramic	0.02
C406	1-102-958	20 pF ceramic	0.02
C407	1-102-949	12 pF ceramic	0.02
C1-1 - 1-8	1-151-223-12	Capacitor, fm tuning	0.72
C2-1 - 3-2	1-151-196	Capacitor, a-m tuning	1.09
C3-1 - 3-2	1-141-011	Capacitor, trimmer 2 gang	0.07
C4-1 - 4-2	1-141-011	Capacitor, trimmer 2 gang	0.07
		Resistors (All resistors are 1/4 W, ±5 %, carbon type resistors.)	
R101	1-208-027	560 Ω 1/16 W ceramic	0.02
R102	1-208-027	560 Ω 1/16 W ceramic	0.02
R103	1-244-697	10 kΩ	0.02
R104	1-244-697	10 kΩ	0.02
R105	1-208-045	3.3 kΩ 1/16 W ceramic	0.02
R106	1-208-145	100 kΩ 1/16 W ceramic	0.02
R107	1-208-145	100 kΩ 1/16 W ceramic	0.02
R108	1-208-088	200 kΩ 1/16 W ceramic	0.02
R109	1-208-027	560 Ω 1/16 W ceramic	0.02
R110	1-208-033	1 kΩ 1/16 W ceramic	0.02
R201	1-242-657	220 Ω	0.02
R202	1-242-676	1.3 kΩ	0.02
R203	1-242-663	390 Ω	0.02
R204	1-244-673	1 kΩ	0.02
R205	1-242-687	3.9 kΩ	0.02
R206	1-242-689	4.7 kΩ	0.02
R207	1-242-661	330 Ω	0.02
R208	1-242-649	100 Ω	0.02
R209	1-242-699	12 kΩ	0.02
R210	1-242-670	750 Ω	0.02
R211	1-242-667	560 Ω	0.02
R212	1-242-667	560 Ω	0.02
R213	1-244-665	470 Ω	0.02
R214	1-242-690	5.1 kΩ	0.02
R215	1-242-656	200 Ω	0.02
R216	1-242-673	1 kΩ	0.02

Ref. No.	Part No.	Description	Unit Price
R217	1-244-724	130 kΩ	$0.02
*R218	1-244-720	91 kΩ	$0.02
	1-244-721	100 kΩ	0.02
	1-244-723	120 kΩ	0.02
	1-244-724	130 kΩ	0.02
	1-244-725	150 kΩ	0.02
R219	1-244-714	51 kΩ	0.02
R220	1-242-661	330 Ω	0.02
R221	1-244-689	4.7 kΩ	0.02
R222	1-242-656	200 Ω	0.02
R223	1-244-673	1 kΩ	0.02
R224	1-244-649	100 Ω	0.02
R225	1-244-720	91 kΩ	0.02
R226	1-242-670	750 Ω	0.02
R227	1-244-656	200 Ω	0.02
R228	1-242-661	330 Ω	0.02
R229	1-242-691	5.6 kΩ	0.02
R230	1-244-709	33 kΩ	0.02
R231	1-244-694	7.5 kΩ	0.02
R232	1-242-640	100 Ω	0.02
R233	1-244-724	130 kΩ	0.02
R234	1-244-684	3 kΩ	0.02
R235	1-244-681	2.2 kΩ	0.02
R236	1-244-697	10 kΩ	0.02
R237	1-244-684	3 kΩ	0.02
R238	1-244-665	470 Ω	0.02
R239	1-242-660	300 Ω	0.02
R240	1-242-673	1 kΩ	0.02
R241	1-242-673	1 kΩ	0.02
R242	1-242-703	18 kΩ	0.02
R243	1-242-691	5.6 kΩ	0.02
R244	1-244-673	1 kΩ	0.02
R245	1-244-721	100 kΩ	0.02
R246	1-244-673	1 kΩ	0.02
R247	1-242-684	3 kΩ	0.02
*R248	1-242-653	150 Ω	0.02
	1-242-655	180 Ω	0.02
	1-242-656	200 Ω	0.02
	1-242-657	220 Ω	0.02
	1-242-659	270 Ω	0.02
R249	1-242-673	1 kΩ	0.02
R250	1-242-701	15 kΩ	0.02
R251	1-242-717	68 kΩ	0.02

* Mark to be selected.

Ref. No.	Part No.	Description	Unit Price
R252	1-242-712	43 kΩ	$0.02
R253	1-242-673	1 kΩ	0.02
R254	1-244-649	100 Ω	0.02
R255	1-242-715	56 kΩ	0.02
R256	1-242-637	33 Ω	0.02
R257	1-242-680	2 kΩ	0.02
R258	1-242-709	33 kΩ	0.02
R259	1-242-637	33 Ω	0.02
R260	1-242-656	200 Ω	0.02
R261	1-242-680	2 kΩ	0.02
R262	1-242-667	560 Ω	0.02
R263	1-242-642	51 Ω	0.02
R264	1-242-680	2 kΩ	0.02
R265	1-242-607	1.8 Ω	0.02
R266	1-242-660	300 Ω	0.02
R267	1-242-661	330 Ω	0.02
R268	1-242-656	200 Ω	0.02
R269	1-242-649	100 Ω	0.02
R270	1-242-697	10 kΩ	0.02
R271	1-242-649	100 Ω	0.02
R272	1-242-660	300 Ω	0.02
R273	1-242-649	100 Ω	0.02
R274	1-242-697	10 kΩ	0.02
R275	1-242-658	240 Ω	0.02
R276	1-242-649	100 Ω	0.02
R277	1-242-719	82 kΩ	0.02
R278	1-242-649	100 Ω	0.02
R279	1-242-649	100 Ω	0.02
R280	1-240-697	10 kΩ	0.02
R281	1-242-670	750 Ω	0.02
R282	1-244-714	51 kΩ	0.02
R283	1-242-684	3 kΩ	0.02
R284	1-244-671	820 Ω	0.02
R285	1-242-653	150 Ω	0.02
R286	1-242-687	3.9 kΩ	0.02
R287	1-242-697	10 kΩ	0.02
R288	1-242-701	15 kΩ	0.02
R289	1-242-682	2.4 kΩ	0.02
R290	1-242-686	3.6 kΩ	0.02
R291	1-242-701	15 kΩ	0.02
R292	1-242-697	10 kΩ	0.02
R293	1-242-693	6.8 kΩ	0.02
R294	1-242-707	24 kΩ	0.02
R295	1-242-653	150 Ω	0.02

Ref. No.	Part No.	Description	Unit Price
R296	1-242-725	150 kΩ	$0.02
R297	-	-	-
R298	1-242-690	5.1 kΩ	0.02
R299	1-244-649	100 Ω	0.02
R2101	1-242-697	10 kΩ	0.02
R2102	1-242-673	1 kΩ	0.02
R2103	1-244-684	3 kΩ	0.02
R2100	1-244-667	560 Ω	0.02
R301	1-242-649	100 Ω	0.02
R302	1-242-641	47 Ω	0.02
R303	1-242-661	330 Ω	0.02
R304	1-242-666	510 Ω	0.02
R305	1-242-639	39 Ω	0.02
R306	1-242-675	1.2 kΩ	0.02
R307	1-242-659	270 Ω	0.02
R308	1-242-673	1 kΩ	0.02
R309	1-242-697	10 kΩ	0.02
RV1	1-222-125	Variable Resistor 50 kΩ (C), squelch control	0.20
RV2	1-222-531	Variable Resistor 10 kΩ (A), volume control	0.14
RV3	1-222-532	Variable Resistor 50 kΩ (A), tone control	0.14

Miscellaneous

TEL ANT	1-501-043-15	Antenna, telescopic	0.72
SP	1-502-312	Speaker	0.51
J001-003	1-507-332-12	3-Unit Jack, earphone/rec out/EXT POWER IN	0.31
S1	1-514-894	Slide Rotary Switch, band selector	0.75
S2	1-514-453-21	Slide Switch, band selector	0.23
S3	1-514-729-41	Slide Switch, AFC	0.13
S4		- discarded -	-
S5	1-514-422	Leaf Switch, battery check	0.29
S6	1-514-895	Leaf Switch, light	0.08
S7	1-514-898	Switch, power	0.28
TM	1-520-076-13	Meter, tuning	0.92
PL	1-518-006-01	Pilot Lamp	0.11
	1-538-793-12	Printed Circuit Board, fm front end	0.05
	1-581-207-11	Printed Circuit Board, air	0.17
	1-581-206-12	Printed Circuit Board, main circuit	0.29
	8-981-410-10	Fm Front End Ass'y	4.90
	1-506-108-31	Pin, antenna terminal	0.01
	1-591-004-11	Printed Circuit Board, air bandpass filter	0.05

Part No.	Description	Unit Price
	D. ATTACHED ITEMS	
3-995-590	Instruction Manual	$
2-060-804-03	Shoulder Strap	0.71
3-822-524-01	Caution Label for Battery	0.01
3-835-810	Case, earphone	0.09
1-463-801-13	Ac Adaptor, AC-70W (USA Model only)	1.97
1-504-034-12	Earphone ME-20	0.17
1-528-001-11	Battery, size "D" (USA Model only)	
3-840-976	Packing Carton	0.21
3-840-978	Cushion	0.16
3-701-251	Polyethylene Bag	0.01