ICF-5900W

US Model
Canadian Model
UK Model
AEP Model
E Model

FM/AM MULTI-BAND RECEIVER

SPECIFICATIONS

Power Requirements: 4.5 V dc, three batteries size D (IEC designation R20)

US and Canadian Model

120 V ac, 60Hz with Sony ac power adaptor AC-110

UK, AEP and E Model

220 – 240V ac (100, 110–127V adjustable)
50/60Hz with optional Sony ac power adaptor AC-3W
AC-456C (West Germany Model)

or 12V car battery with optional Sony car battery cord DCC-127H

Power Output: 1,900mW dc (Total Harmonic Distortion 10%)

Power Consumption: **US and Canadian Model**

6W ac (60Hz) with Sony ac power adaptor AC-110

UK. AEP and E Model

7.4VA (50Hz) 6.8VA (60Hz) with optional ac power adaptor AC-3W

Circuit Systems: FM/MW: Superheterodyne
SW: Dual conversion superheterodyne

Frequency Range: FM: 87.5 – 108 MHz
SW_1: 3.9 – 10 MHz (77 – 30m)
SW_2: 11.7 – 20 MHz (25.6 – 15m)
SW_3: 20 – 28 MHz (15 – 10.7m)
MW: 530 – 1,605 kHz

Antennas: FM/SW: Telescopic antenna, external antenna terminals
MW: Built–in ferrite-rod antenna, external antenna terminal

Speaker: 10 cm (4 inches) dia.

Dimensions: Approx. 223 (W) x 234 (h) x 102 (d) mm
8¾ (W) x 9¼ (h) x 4 (d) inches
(Including projecting parts and controls)

Weight: Approx. 2.2 kg, 4 lb 7 oz
(Including batteries)

SONY®
SERVICE MANUAL

1-1. BLOCK DIAGRAM

SECTION 1 OUTLINE

SECTION 2
DISASSEMBLY

ADJUSTMENT COVER REMOVAL
Remove a screw (B3 x 5).

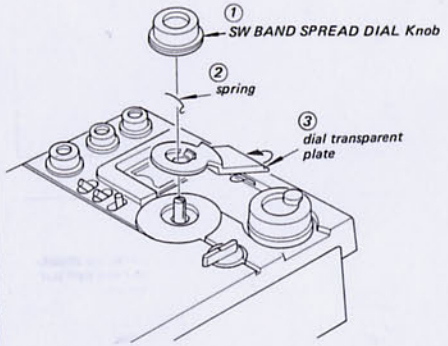
- SW FREQUENCY SCALE ADJUSTMENT
- SW OSC 2 ADJUSTMENT
- MARKER ADJUSTMENT

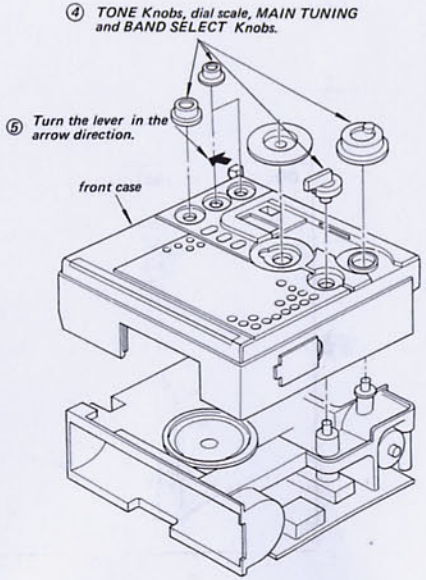
REAR CASE REMOVAL
Remove four screws (TA, P3 x 52).

- SW TRACKING ADJUSTMENT
- SW MIXER 1 ADJUSTMENT
- SW OSC 2 ADJUSTMENT
- MARKER ADJUSTMENT

- FM IF ADJUSTMENT
- FM FREQUENCY COVERAGE ADJUSTMENT
- FM TRACKING ADJUSTMENT
- AM IF ADJUSTMENT
- MW FREQUENCY COVERAGE ADJUSTMENT
- MW TRACKING ADJUSTMENT
- BFO ADJUSTMENT

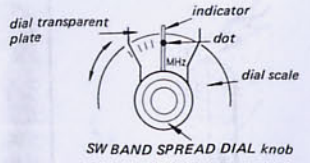
FRONT CASE REMOVAL



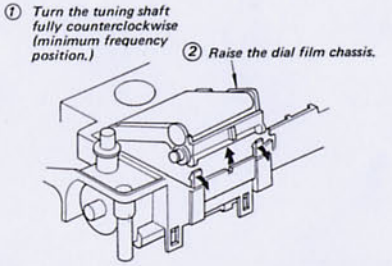


SETTING OF SW BAND SPREAD DIAL

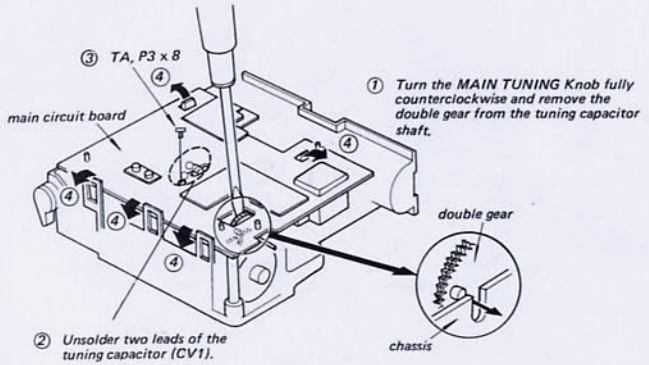
1. Turn the SW BAND SPREAD DIAL knob fully counterclockwise and secure it with hand.
2. Turning the dial scale, match the dot to the indicator.



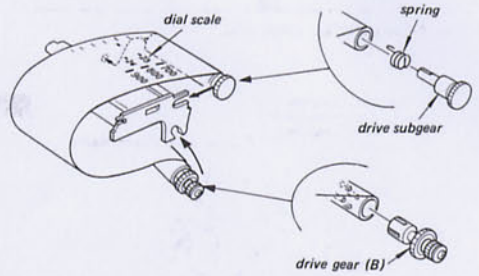
DIAL FILM CHASSIS REMOVAL



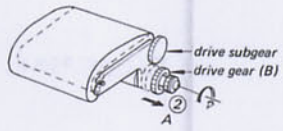
MAIN CIRCUIT BOARD (1) REMOVAL



DIAL FILM ATTACHMENT (1)



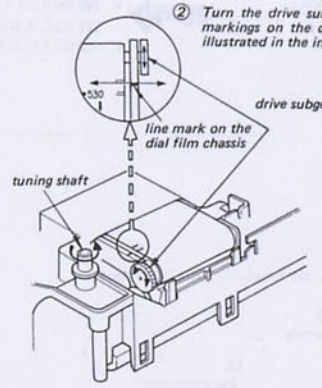
② *Pull the drive gear (B) in the direction of A and turn it clockwise to eliminate any slack of the dial film. Holding the dial film not to be unwound, further turn the gear about 90° clockwise to wind up the spring.*



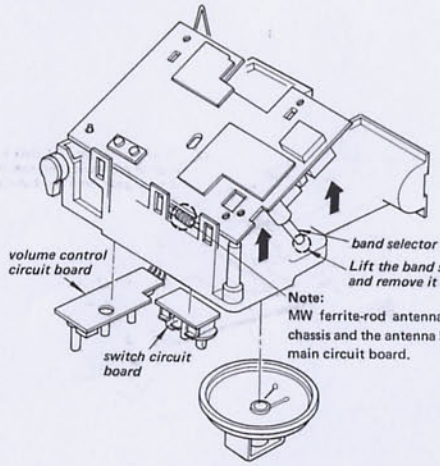
DIAL FILM POSITIONING

① *Turn the tuning shaft fully counter-clockwise and hold it not to turn clockwise.*

② *Turn the drive subgear so that the markings on the dial film place as illustrated in the inset.*

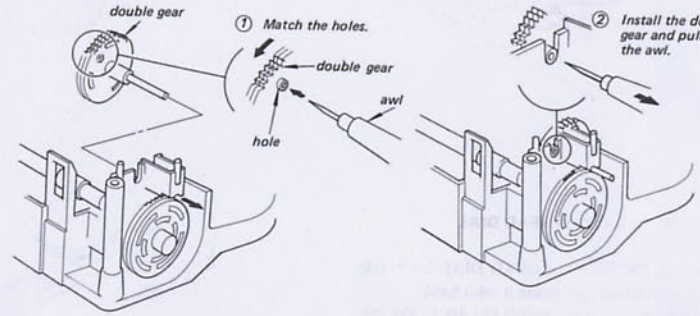


MAIN CIRCUIT BOARD (2) REMOVAL

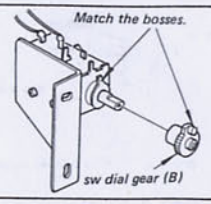


Note:
MW ferrite-rod antenna (L7) is mounted on the chassis and the antenna leads are connected to the main circuit board.

DOUBLE GEAR INSTALLATION



SW DIAL GEAR (B) INSTALLATION

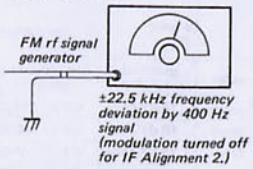


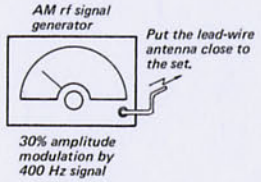
SECTION 3
ELECTRICAL ADJUSTMENTS

FM/AM SECTION

SETTING:
AFC/AM SENS switch : OFF/LOCAL
BAND SELECT switch : MW or FM

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





109.5 MHz (108 MHz)	CT1
86.5 MHz (87.5 MHz)	L4
Adjust for a maximum reading on VOM ①.	
FM TRACKING ADJUSTMENT	

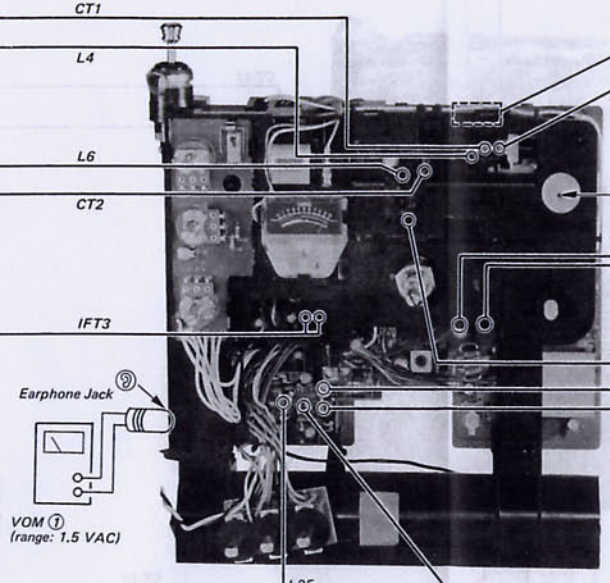
( ): in West Germany

86.5 MHz (87.5 MHz)	L6
109.5 MHz (108 MHz)	CT2
Adjust for a maximum reading on VOM ①.	
FM FREQUENCY COVERAGE ADJUSTMENT	

( ): in West Germany

MW/SW SECOND IF ALIGHMENT	
Adjust for a maximum reading on VOM ①.	
455 kHz (468 kHz)	IFT3

( ): UK model



MW TRACKING ADJUSTMENT	
L7	620 kHz
CT3	1,400 kHz

MW FREQUENCY COVERAGE ADJUSTMENT	
CT4	1,680 kHz
L11	520 kHz

FM I-F ALIGNMENT 1 (*Specified Center Freq. with modulation)
Adjust for a maximum reading on VOM ①.
IFT 1
IFT 4
IFT 5

Note:

CERAMIC FILTERS	
Color	*Specified Center Freq.
green	10.61 MHz
black	10.64 MHz
blue	10.67 MHz
red	10.70 MHz
orange	10.73 MHz
white	10.76 MHz
yellow	10.79 MHz

FM IF ALIGNMENT 2 (*Specified center freq. with modulation)
Adjust for OV reading on VOM ②.
IFT 5

IFT5

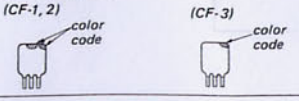
BFO ADJUSTMENT
Setting : BFO switch : ON
BAND SELECT switch : MW
no modulation

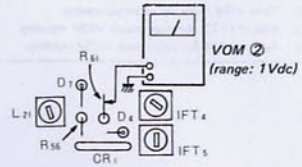
Procedure :
1. Tune the set to 1,400 kHz.
2. Adjust L25 for zero beating (*).

Note:
* Zero beating means the point that the beating just disappears.

Note:
The color code of the ceramic filters (CF1, 2, 3) should coincide with those on the circuit board.

Part No. 1-527-265-00

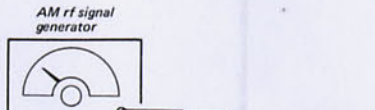




SW SECTION (1)

SETTING:

AFC/AM SENS Switch:	OFF/LOCAL
BAND SELECT Switch:	SW1
X-TAL MARKER Switch:	OFF
BFO Switch:	OFF
MAIN TUNING:	f min



MARKER LEVEL ADJUSTMENT

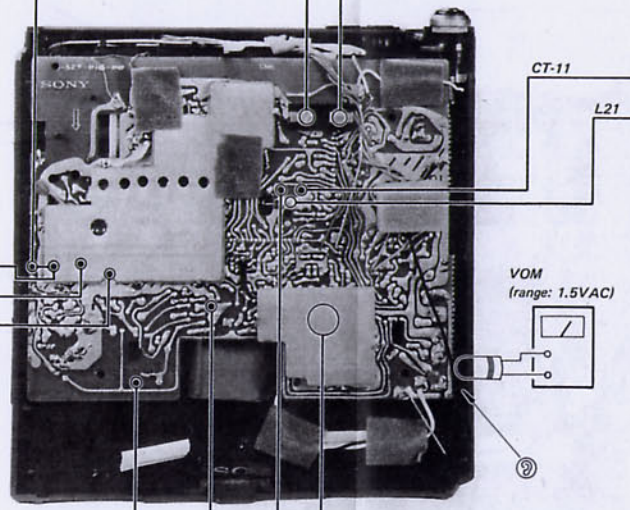
1. BAND SELECT switch: SW3
2. X–TAL MARKER switch: ON
3. Turn the MAIN TUNING Knob to tune in 28MHz and adjust for zero beating.
4. Adjust CT13 so that the TUNING & BATT METER reads within 5 – 6.

CT-13

SW TRACKING ADJUSTMENT

4.0 MHz	SW1	L8
12.0 MHz	SW2	L9
21.0 MHz	SW3	L10

L8
L9
L10



VOM (range: 1.5VAC)

CT-11
L21

SW OSC 2 ADJUSTMENT

(After this adjustment, perform MARKER adjustment.)

Ceramic Filter		SW BAND SPREAD DIAL SETTING	
color	specified center Freq.	fully counterclockwise Position (⊖ side)	fully clockwise Position (⊕ side)
green	10.61 MHz	CT-11 (10.76 MHz)	L21 (10.46 MHz)
black	10.64 MHz	CT-11 (10.79 MHz)	L21 (10.49 MHz)
blue	10.67 MHz	CT-11 (10.82 MHz)	L21 (10.52 MHz)
red	10.70 MHz	CT-11 (10.85 MHz)	L21 (10.55 MHz)
orange	10.73 MHz	CT-11 (10.88 MHz)	L21 (10.58 MHz)
white	10.76 MHz	CT-11 (10.91 MHz)	L21 (10.61 MHz)
yellow	10.79 MHz	CT-11 (10.94 MHz)	L21 (10.64 MHz)

Specification: 300 kHz ±3 kHz

Note:
1) Adjust L21 for the maximum level and set it to the peak position in the counterclockwise direction.
2) Do not adjust L21 to the image frequency.

Note:
The color code of the ceramic filters (CF1, 2, 3) should coincide with those on the circuit board.

Part No. 1-527-265-00

(CF-1,2) color code

(CF-3) color code

VR4

IFT2

CT-12

color label of ceramic filters (CF1, 2, 3)

SW MIXER 1 ADJUSTMENT

1. Set the green line of the SW BAND SPREAD DIAL knob to "0 kHz" position.
2. Turn VR4 fully counterclockwise.
3. Adjust IFT2 for maximum VOM reading.
4. Adjust VR4 for minimum VOM reading.

MARKER ADJUSTMENT

This adjustment should be performed after the SW OSC 2 adjustment.

1. Set the green line of the SW BAND SPREAD DIAL knob to "0 kHz" position.
2. Set BFO switch to ON and X-TAL MARKER switch to OFF.
3. Tune the set to the specified center frequency of fm i-f circuit and adjust AM rf signal generator for zero beating.
4. Set X-TAL MARKER switch to ON and increase the output level of the AM rf signal generator to 100 dB.
5. Adjust CT-12 for zero beating.
6. Change the frequencies of the AM rf signal generator and confirm that the noise of beating does not vary.
   If necessary, repeat step 3 to 6 again.

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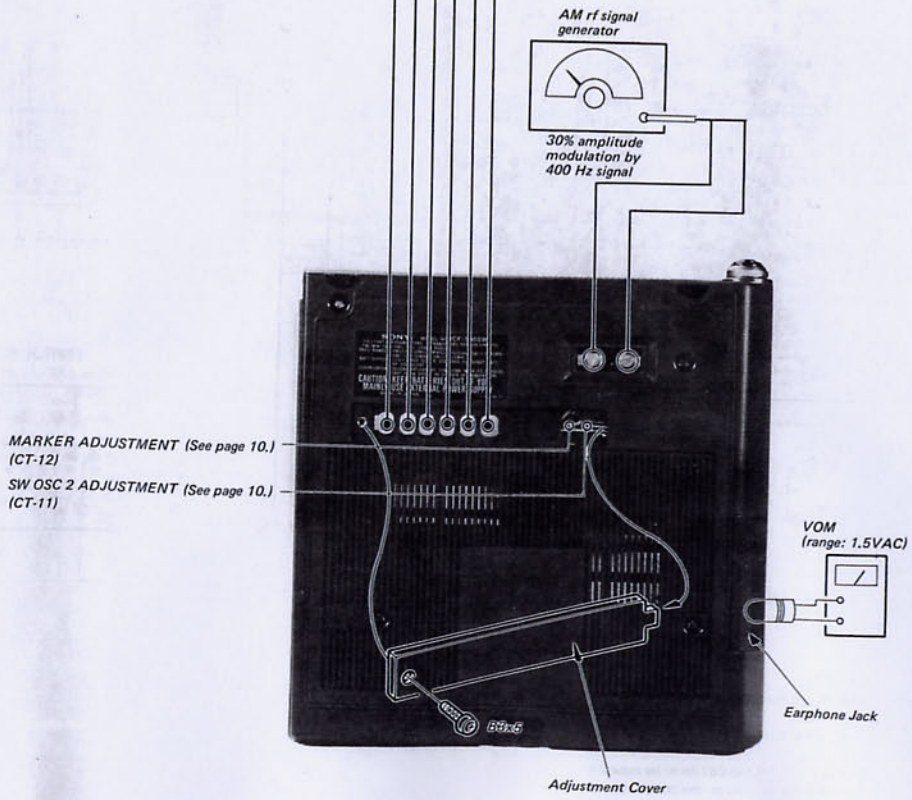
SW SECTION (2)

SETTING :
SW BAND SPREAD DIAL : 0 kHz
AFC/AM SENS switch : OFF/LOCAL
BFO switch : OFF
X-TAL MARKER switch : OFF

SW FREQUENCY SCALE ADJUSTMENT		
Adjust for a maximum reading on VOM.		
SW3	21.0 MHz	L14
	27.5 MHz	CT-10
SW2	12.0 MHz	L13
	19.5 MHz	CT-9
SW1	9.5 MHz	CT-8
	4.0 MHz	L12

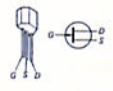


SECTION 4
DIAGRAMS

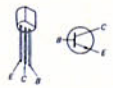
4-1. MOUNTING DIAGRAM — Conductor Side —

[ ] : replacement parts

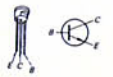
Q1: 2SK42



Q2: 2SC930

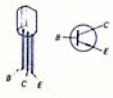


Q3, 5, 6: 2SC668

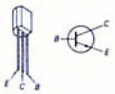


Q4, 8 ~ 11, 26, 27: 2SC1908 [2SC710]

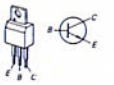
Q7, 13, 18 ~ 20: 2SC710



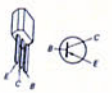
Q12, 14, 15, 23, 24, 25: 2SC1363 [2SC634A]



Q16, 17: 2SC1429



Q21: 2SA677 [2SA678]



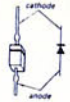
D1, 2, 5, 6, 12, 13, 15: 1S1555

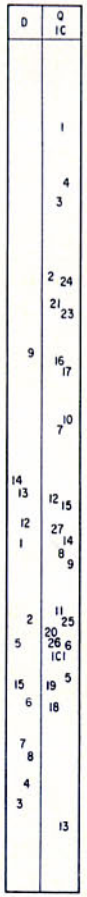
D3, 4: 1T26 [1T261]

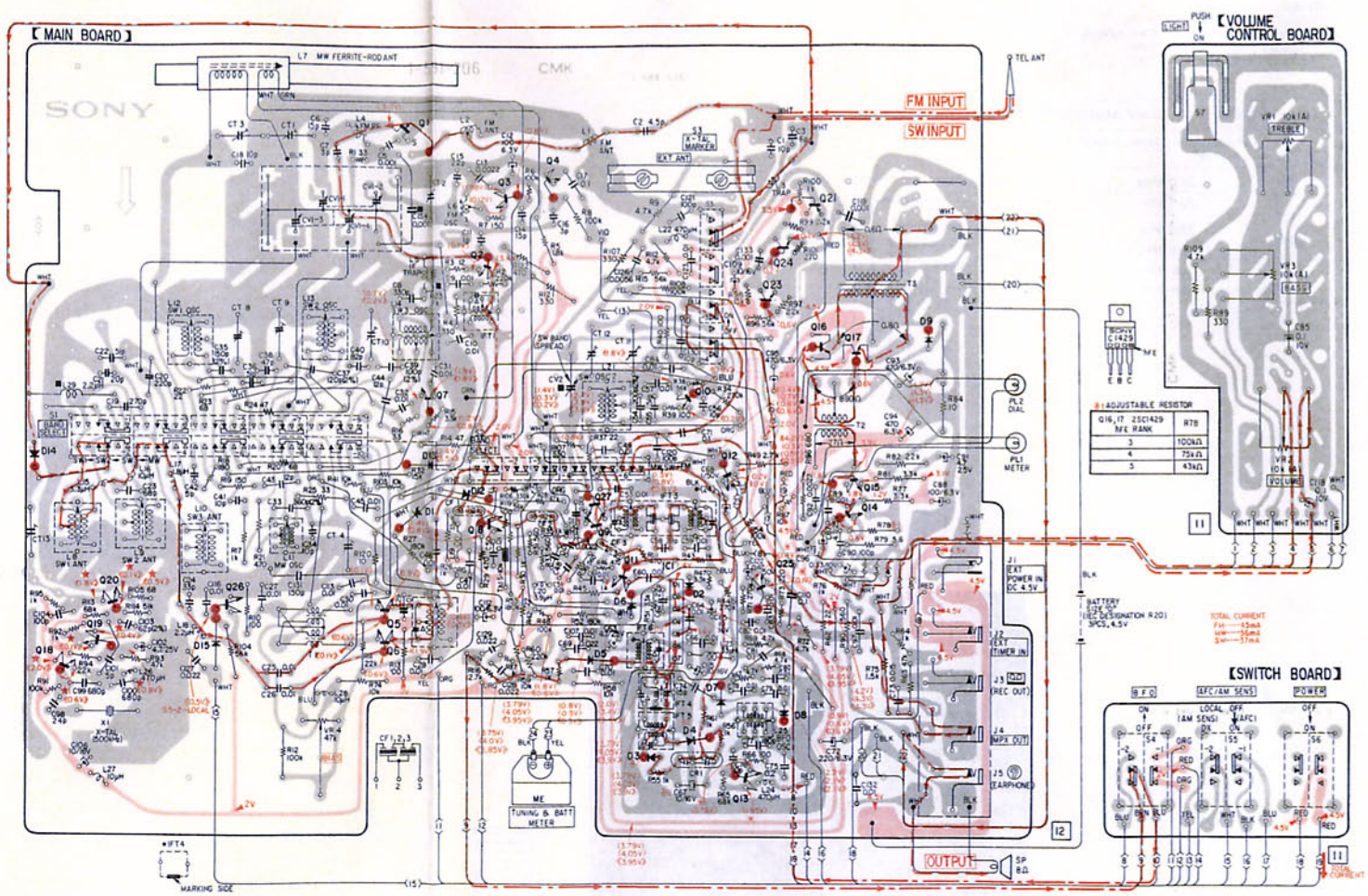
D7, 8: 1T23 [1T22A]

D9: MV5L

D14: 1S2222







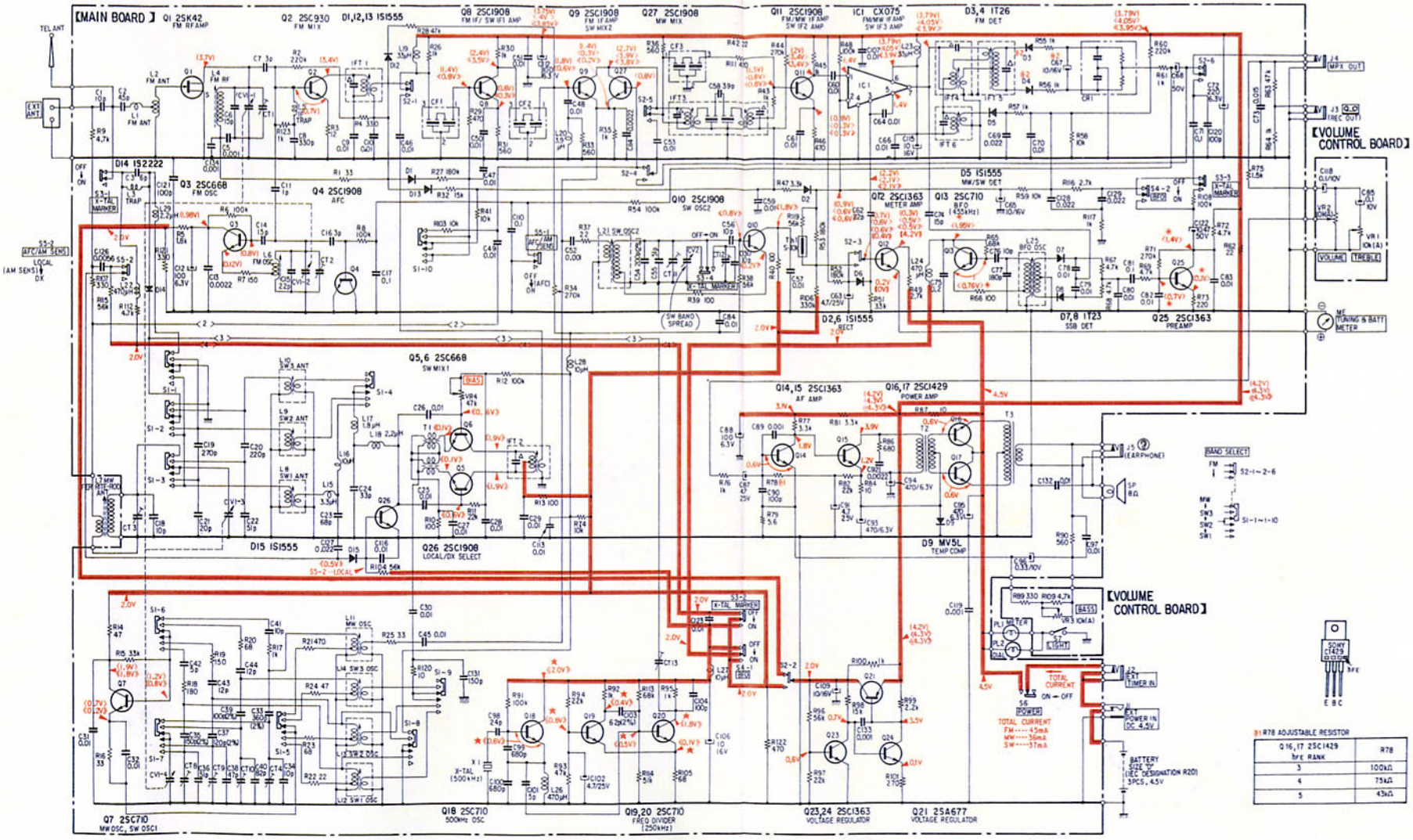
Note

- ■ indicates parts on the conductor side.
- ●— indicates lead wire connection on the conductor side.
- ○— indicates lead wire connection through the component side.
- B + pattern.
- FM signal or SW signal path.
- SW signal path.
- FM signal path.

- DC resistance of transformer is measured on the mounted board. The valve is standard value.

*2: Polarity of D3, D4 and C67 must be opposite to the polarity printed on the circuit board.

4-2. SCHEMATIC DIAGRAM



Note:

- All capacitors are in μF unless otherwise noted. 50 or less working voltages are not indicated except for electrolytic type. p = μμF
- All resistors are in Ω, 1/8W, unless otherwise noted. k = 1,000 M = 1,000 k
- △ indicates internal components.
- ▬ indicates B + circuit.
- Voltages are DC with respect to ground unless otherwise noted. Readings are taken under no-signal conditions with a VOM (20k Ω/v).

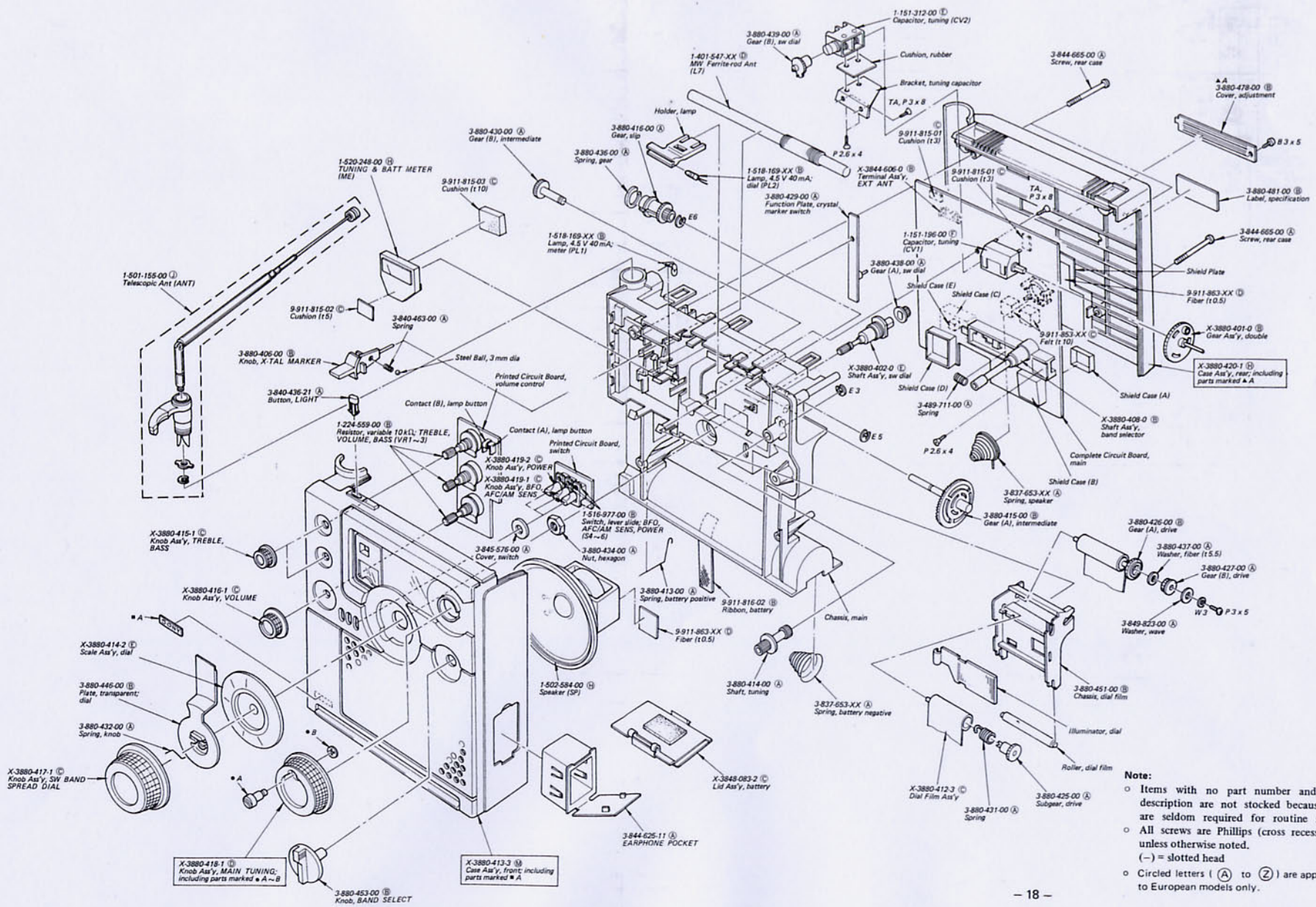
( ): FM < >: MW ≪ ≫: SW
(( )): Optimum receiving
*: BFO SWITCH (S4).....ON
*: X-TAL MARKER SWITCH (S3).....ON
no mark: common

- Voltage variations may be noted due to normal production tolerances.
- Voltage between base and emitter are measured with 2.5V range.
- ▭ indicates designation on the panel.
- ▭ indicates the adjustment for repair.

- Switch Mode:

Ref. No.	Switch	Position
S1	BAND SELECT	MW
S2	BAND SELECT	FM
S3	X-TAL MARKER	OFF
S4	BFO	OFF
S5	AFC	OFF
	AM SENS	LOCAL
S6	POWER	OFF
S7	LIGHT	OFF

SECTION 5
EXPLODED VIEWS



Note:

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

SECTION 6
ELECTRICAL PARTS LIST

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

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

Ref. No.	Part No.	Description
		SEMICONDUCTORS
		Transistors
Q1		Ⓔ 2SK42
Q2		Ⓑ 2SC930
Q3		Ⓑ 2SC668
⇒ Q4		Ⓑ 2SC710
Q5, 6		Ⓑ 2SC668
⇒ Q8～11		Ⓑ 2SC710
⇒ Q12		Ⓑ 2SC634A
Q13		Ⓑ 2SC710
⇒ Q14, 15		Ⓑ 2SC634A
Q16, 17		Ⓒ 2SC1429
Q18～20		Ⓑ 2SC710
⇒ Q21		Ⓑ 2SA678
⇒ Q23～25		Ⓑ 2SC634A
⇒ Q26, 27		Ⓡ 2SC710
		IC
IC1		Ⓓ CX075
		Diodes
D1, 2		Ⓑ 1S1555
⇒ D3, 4		Ⓑ 1T261
D5, 6		Ⓑ 1S1555
⇒ D7, 8		Ⓑ 1T22A
D9		MV5L
D12, 13		Ⓑ 1S1555
D14		Ⓑ 1S2222
D15		Ⓑ 1S1555
		Thermistor
Th1	1-800-202-XX	Ⓐ S-10k

⇒: Due to replacement parts, the descriptions are different from the diagrams.

Ref. No.	Part No.	Description
		COILS
		All coils are microinductor unless otherwise noted.
L1	1-401-526-00	Ⓐ FM Ant
L4	1-425-888-00	Ⓑ FM RF
L6	1-405-568-00	Ⓑ FM Osc
L7	1-401-541-XX	Ⓓ MW Ferrite-rod Ant
L8	1-401-643-00	Ⓑ SW1 Ant
L9	1-401-644-00	Ⓑ SW2 Ant
L10	1-401-645-00	Ⓑ SW3 Ant
L11	1-405-520-00	Ⓑ MW Osc
L12	1-405-710-00	Ⓑ SW1 Osc
L13	1-405-711-00	Ⓑ SW2 Osc
L14	1-405-712-00	Ⓑ SW3 Osc
L15	1-407-184-XX	Ⓐ 3.3 μH
L16	1-407-157-XX	Ⓐ 10 μH
L17	1-407-181-XX	Ⓐ 1.8 μH
L18	1-407-182-XX	Ⓐ 2.2 μH
L19	1-407-163-XX	Ⓐ 33 μH
L20	1-407-185-XX	Ⓐ 3.9 μH
L21	1-405-713-00	Ⓑ SW Osc 2
L22	1-407-661-XX	Ⓐ 470 μH
L23	1-407-163-XX	Ⓐ 33 μH
L24	1-407-661-XX	Ⓐ 470 μH
L25	1-405-714-00	Ⓑ BFO Osc
L26	1-407-661-XX	Ⓐ 470 μH
L27, 28	1-407-157-XX	Ⓐ 10 μH
L29	1-407-182-XX	Ⓐ 2.2 μH
		TRANSFORMERS
IFT1	1-403-872-00	Ⓑ FM IFT
IFT2	1-404-021-00	Ⓑ SW IFT
IFT3	1-403-972-00	Ⓔ AM IFT
IFT4	1-403-959-00	Ⓑ FM Discriminator
IFT5	1-403-953-00	Ⓑ FM Discriminator
IFT6	1-403-137-00	Ⓑ AM IFT
T1	1-417-014-31	Ⓑ Balun
T2	1-423-204-XX	Ⓒ Input
T3	1-427-306-XX	Ⓒ Output

Ref. No.	Part No.	Description		
		CAPACITORS		
		All capacitors are in μF and of ceramic unless otherwise noted. 50 and/or less working voltages are not noted except for electrolytic type. (p = μμF, elect = electrolytic)		
C1	1-102-947-11	Ⓐ 10 p		
C2	1-101-579-11	Ⓐ 4.5 p		
C3	1-102-808-11	Ⓐ 6 p		
C5	1-102-074-11	Ⓐ 0.001		
C6	1-102-951-11	Ⓐ 15 p		
C7	1-102-936-11	Ⓐ 3 p		
C8	1-102-820-11	Ⓐ 330 p		
C9, 10	1-101-923-11	Ⓐ 0.01		
C11	1-102-934-11	Ⓐ 1 p		
C12	1-121-413-11	Ⓐ 100	6.3 V	elect
C13	1-102-121-11	Ⓐ 0.0022		
C14	1-102-951-11	Ⓐ 15 p		
C15	1-102-751-11	Ⓐ 22 p		
C16	1-102-936-11	Ⓐ 3 p		
C17	1-101-797-11	Ⓐ 0.1		(boundary layer)
C18	1-102-947-11	Ⓐ 10 p		
C19	1-107-095-11	Ⓐ 270 p		silvered mica
C20	1-107-093-11	Ⓐ 220 p		silvered mica
C21	1-102-958-11	Ⓐ 20 p		
C22	1-101-882-11	Ⓐ 51 p		
C23	1-101-888-11	Ⓐ 68 p		
C24	1-102-963-11	Ⓐ 33 p		
C25～32	1-101-923-11	Ⓐ 0.01		
C33	1-107-265-11	Ⓑ 360 p	±2%	silvered mica
C34	1-102-947-11	Ⓐ 10 p		
C35	1-107-263-11	Ⓑ 150 p	±2%	silvered mica
C36	1-102-695-11	Ⓐ 51 p		
C37	1-107-262-11	Ⓑ 120 p	±2%	silvered mica
C38	1-102-887-11	Ⓐ 47 p		
C39	1-107-261-11	Ⓑ 100 p	±2%	silvered mica
C40	1-102-700-11	Ⓐ 82 p		
C41	1-102-947-11	Ⓐ 10 p		
C42	1-102-942-11	Ⓐ 5 p		
C43, 44	1-102-949-11	Ⓐ 12 p		
C45～51	1-101-923-11	Ⓐ 0.01		
C52	1-101-455-11	Ⓐ 0.001		
C53	1-101-923-11	Ⓐ 0.01		
C54	1-107-264-11	Ⓑ 200 p	±2%	silvered mica
C55	1-102-757-11	Ⓐ 51 p		
C56	1-102-947-11	Ⓐ 10 p		
C57	1-101-923-11	Ⓐ 0.01		
C58	1-102-965-11	Ⓐ 39 p		
C59～61	1-101-923-11	Ⓐ 0.01		
C62	1-102-959-11	Ⓐ 22 p		
C63	1-121-395-11	Ⓐ 4.7	25 V	elect
C64	1-101-923-11	Ⓐ 0.01		
C65	1-121-651-11	Ⓐ 10	16 V	elect
C66	1-101-923-11	Ⓐ 0.01		
C67	1-121-651-11	Ⓐ 10	16 V	elect
C68	1-121-391-11	Ⓐ 1	50 V	elect
C69	1-105-677-12	Ⓐ 0.022		mylar
C70	1-101-923-11	Ⓐ 0.01		
C71	1-101-797-11	Ⓐ 0.1		(boundary layer)
C72	1-121-419-11	Ⓐ 220	6.3 V	elect
C73	1-105-675-12	Ⓐ 0.015		mylar
C74	1-102-951-11	Ⓐ 15 p		
C75	1-101-798-11	Ⓐ 0.2		(boundary layer)
C76	1-102-947-11	Ⓐ 10 p		
C77	1-102-705-11	Ⓐ 180 p		
C78～80	1-102-923-11	Ⓐ 0.01		
C81	1-101-797-11	Ⓐ 0.1		(boundary layer)
C82, 83	1-105-673-12	Ⓐ 0.01		mylar
C84	1-101-923-11	Ⓐ 0.01		
C85	1-127-019-11	Ⓐ 0.1	10 V	solid aluminum
C87	1-121-395-11	Ⓐ 4.7	25 V	elect
C88	1-121-413-11	Ⓐ 100	6.3 V	elect
C89	1-101-455-11	Ⓐ 0.001		
C90	1-102-973-11	Ⓐ 100 p		
C91	1-121-395-11	Ⓐ 4.7	25 V	elect
C92	1-102-121-11	Ⓐ 0.0022		
C93～95	1-121-424-11	Ⓑ 470	6.3 V	elect
C96	1-127-021-11	Ⓐ 0.33	10 V	solid aluminum
C97	1-105-673-12	Ⓐ 0.01		mylar

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

Ref. No.	Part No.	Description		
C98	1-102-960-11	Ⓐ 24 p		
C99, 100	1-102-116-11	Ⓐ 680 p		
C101	1-102-942-11	Ⓐ 5 p		
C102	1-121-395-11	Ⓐ 4.7	25 V	elect
C103	1-107-259-11	Ⓑ 62 p	±2 %	silvered mica
C104	1-102-973-11	Ⓐ 100 p		
C106	1-121-651-11	Ⓐ 10	16 V	elect
C107	1-101-923-11	Ⓐ 0.01		
C109	1-121-651-11	Ⓐ 10	16 V	elect
C110	1-101-797-11	Ⓐ 0.1		(boundary layer)
C112	1-121-413-11	Ⓐ 100	6.3 V	elect
C113	1-101-923-11	Ⓐ 0.01		
C114	1-102-121-11	Ⓐ 0.0022		
C115	1-121-651-11	Ⓐ 10	16 V	elect
C116	1-101-923-11	Ⓐ 0.01		
C118	1-127-019-11	Ⓐ 0.1	10 V	solid aluminum
C119	1-101-455-11	Ⓐ 0.001		
C120, 121	1-102-973-11	Ⓐ 100 p		
C122	1-121-726-11	Ⓐ 0.47	50 V	elect
C123	1-101-923-11	Ⓐ 0.01		
C126	1-105-670-12	Ⓐ 0.0056		mylar
C127	1-101-924-11	Ⓐ 0.022		
C128, 129	1-105-677-12	Ⓐ 0.022		mylar
C130	1-107-061-11	Ⓐ 10 p		silvered mica
C131	1-101-361-11	Ⓐ 150 p		
C132	1-101-923-11	Ⓐ 0.01		
C133, 134	1-102-074-11	Ⓐ 0.001		
CT1 ~ 4	1-141-138-XX	Ⓐ Trimmer		
CT8, 10	1-141-180-00	Ⓑ Trimmer		
CT9, 11	1-141-171-00	Ⓑ Trimmer		
CT12	1-141-178-00	Ⓑ Trimmer		
CT13	1-141-138-XX	Ⓐ Trimmer		
CV1	1-151-196-00	Ⓕ Tuning		
CV2	1-151-312-00	Ⓔ Tuning		

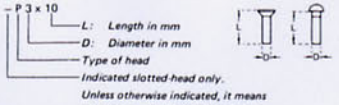
Ref. No.	Part No.	Description
		RESISTORS
		Regular-type ¼ W carbon resistors are omitted. Check the schematic diagram for the resistance values. (k = 1000)
VR1 ~ 3	1-224-559-00	Ⓑ 10 kΩ, variable, TREBLE, VOLUME, BASS
VR4	1-224-647-XX	Ⓑ 47 kΩ, adjustable
		SWITCHES
S1	1-514-316-00	Ⓓ Slide, BAND SELECT (MW/SW)
S2	1-514-861-XX	Ⓑ Slide, BAND SELECT (FM)
S3	1-514-821-21	Ⓒ Slide, X-TAL MARKER
S4 ~ 6	1-516-977-00	Ⓑ Lever Slide, BFO, AFC/AM SENS, POWER
		MISCELLANEOUS
ANT	1-501-155-00	Ⓙ Antenna, telescopic
CF1, 2, 3	1-527-265-00	Ⓔ Filter, ceramic
CR1	1-231-202-00	Ⓑ Encapsulated Component
J1 ~ 5	1-507-369-XX	Ⓔ Jack, EXT POWER IN DC 4.5 V, EXT TIMER IN, REC OUT, MPX OUT, earphone
ME	1-520-248-00	Ⓗ TUNING & BATT METER
PL1, 2	1-518-169-XX	Ⓑ Lamp, 4.5 V 40 mA; meter, dial
SP	1-502-584-00	Ⓗ Speaker
X1	1-527-269-51	Ⓚ Crystal, 500 kHz

ACCESSORIES & PACKING MATERIALS

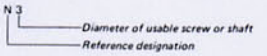
Part No.	Description
X-3844-608-0	Ⓓ Shoulder Strap Ass'y
X-3880-411-0	Ⓑ Cushion Ass'y, upper
1-463-129-00	Ⓚ Adaptor, ac plug; AC-110 (US model)
1-463-130-00	Ⓚ Adaptor, ac plug; AC-110 (Canadian model)
1-504-059-11	Ⓒ Earphone, ME-20H
3-880-467-11	Ⓓ Carton
3-880-470-00	Ⓑ Cushion, side
3-880-490-00	Ⓑ Bag, plastic; unit
3-993-144-31) 3-995-759-21)	Ⓑ Manual, instruction (Canadian model)
3-995-759-21	Ⓑ Manual, instruction (US, Canadian model)
3-995-759-41	Ⓑ Manual, instruction (AEP, UK model)
3-995-759-51	Ⓑ Manual, instruction (E model)

HARDWARE NOMENCLATURE

Screw:



Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
		SCREWS	
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
		SELF-TAPPING SCREWS	
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
		SET SCREWS	
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
		NUT	
N		nut	
		WASHERS	
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E		retaining ring	
G		grip-type retaining ring	

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