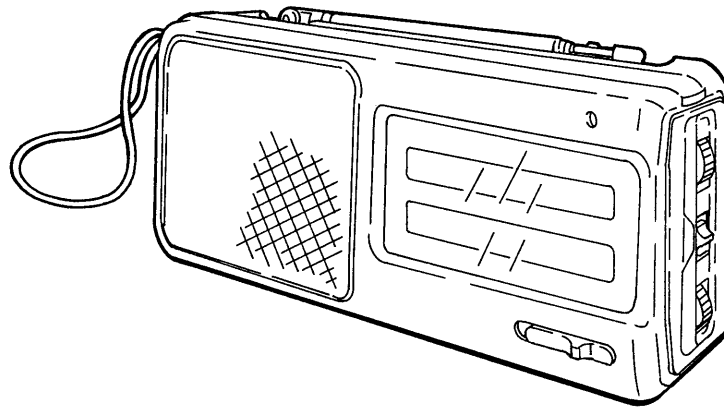


ICF-490L

SERVICE MANUAL

AEP Model
UK Model



ICF-490L is almost same as ICF-480L.
This manual contains only the points which differ from ICF-480L.
Please refer to ICF-480L service manual (9-956-588-00) for the information not contained in this manual.

SPECIFICATIONS

Frequency range FM : 87.6-107.5 MHz
MW : 531-1,602 kHz
LW : 153-255 kHz

Intermediate frequency

FM: 10.7 MHz
MW: 455 kHz

Speaker

Approx. 7.7 cm (3 inches) dia.

Power output

250 mW (at 10 % harmonic distortion)

Output

Ⓞ jack (minijack)

Power requirements

4.5 V DC, three R6 (size AA) batteries
4.5 V DC, three LR6 (size AA) batteries
DC IN 4.5 V jack accepts: Sony AC-E45M AC power adaptor (not supplied)

Dimensions

Approx. 192.5 × 98.5 × 46 mm (w/h/d)
(7⁵/₈ × 4 × 1¹³/₁₆ inches)
incl. projecting parts and controls

Mass

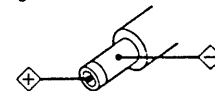
Approx. 430 g (15.2 oz) incl. batteries

Design and specifications are subject to change without notice.

Notes

- When the AC power adaptor is not used, be sure to unplug it both from the DC IN 4.5 V jack and from a wall outlet.
- Use only the AC power adaptor AC-E45M (not supplied). Do not use any other AC power adaptor.

Polarity of the plug



AC power adaptor AC-E45M

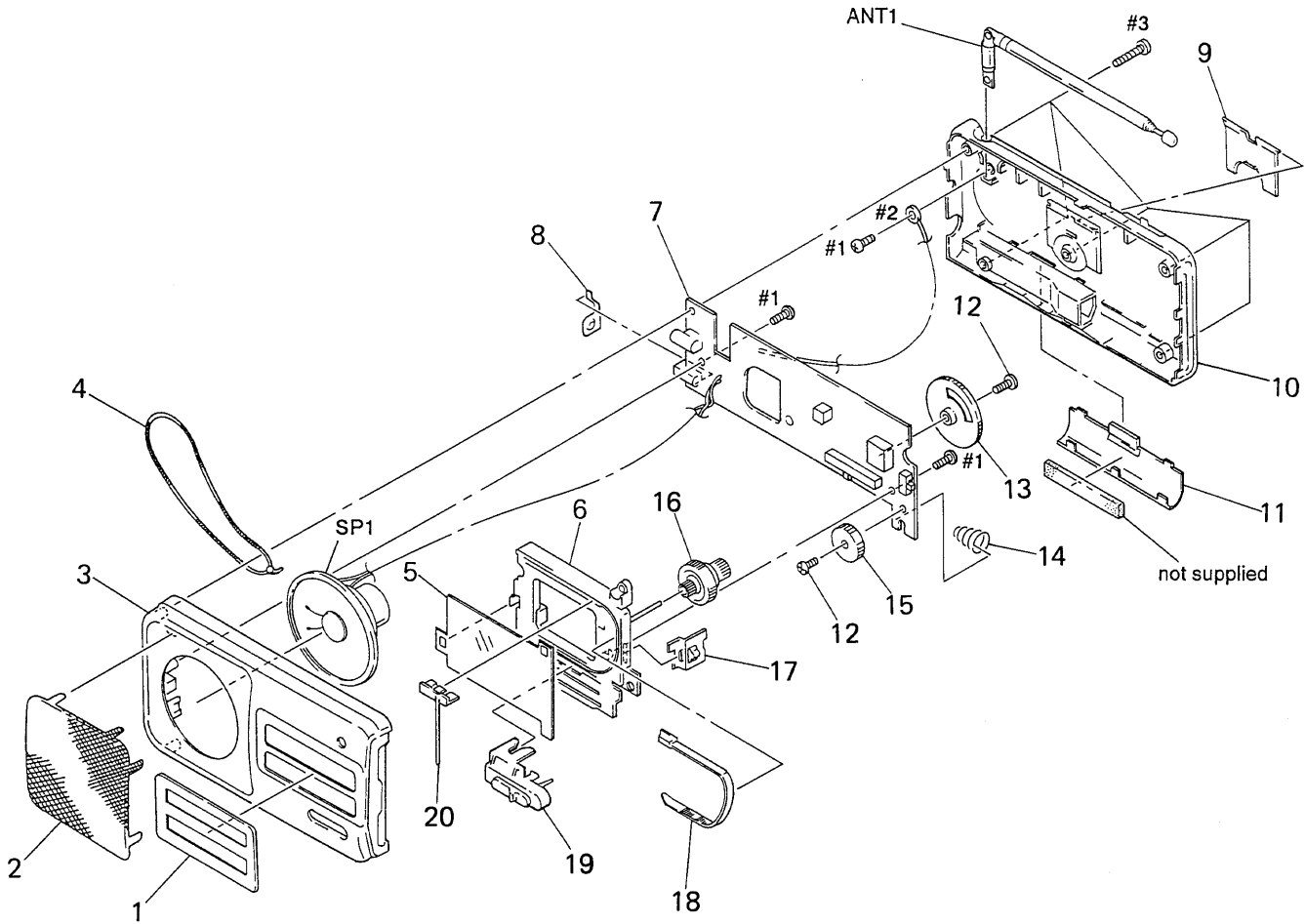
FM/MW/LW 3BAND RECEIVER
SONY[®]

1. EXPLODED VIEW

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) ... (RED)
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

↑ ↑
Parts Color Cabinet's Color

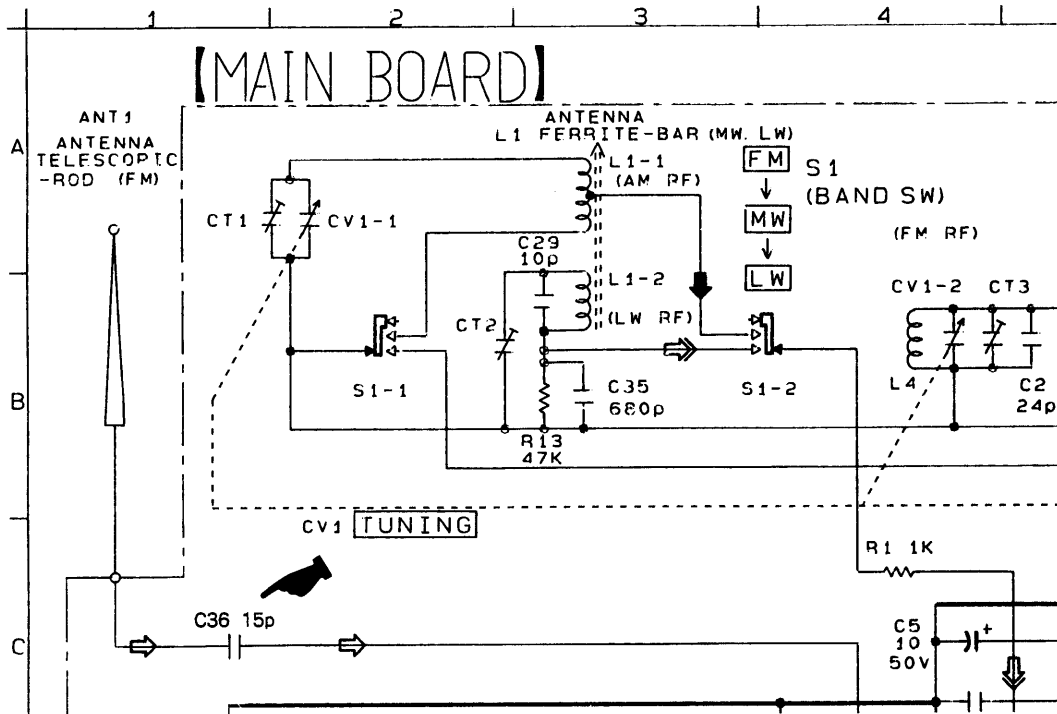


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-922-978-01	SCALE, DIAL		12	3-370-474-21	SCREW (NYLOCK +B 1.7X4)	
2	3-922-981-01	NET, SPEAKER (BLACK)		13	3-369-218-01	GEAR (A), TUNING CAPACITOR	
2	3-922-981-11	NET, SPEAKER (WHITE)		14	3-369-211-01	SPRING, BATTERY COIL	
3	3-922-976-01	CABINET (FRONT) (BLACK)		15	3-369-219-01	KNOB (VOL) (BLACK)	
3	3-922-976-11	CABINET (FRONT) (WHITE)		15	3-369-219-11	KNOB (VOL) (WHITE)	
4	3-923-688-01	STRAP, HAND		16	3-369-222-01	KNOB (TUNE) (BLACK)	
*	5	3-369-210-11	PLATE, BACK	16	3-369-222-11	KNOB (TUNE) (WHITE)	
* 6	3-369-225-01	CHASSIS		17	3-369-203-01	KNOB (TONE) (BLACK)	
* 7	A-3661-290-A	MAIN BOARD, (CHIP) COMPLETE		17	3-369-203-11	KNOB (TONE) (WHITE)	
* 7	A-3662-202-A	MAIN BOARD, (HAND) COMPLETE		18	3-369-217-01	RACK	
8	3-369-207-01	TERMINAL (+), BATTERY		19	3-922-979-01	KNOB (BAND) (BLACK)	
9	3-380-918-11	STAND (WHITE)		19	3-922-979-11	KNOB (BAND) (WHITE)	
9	3-380-918-21	STAND (BLACK)		20	3-922-980-01	POINTER	
10	3-922-977-01	CABINET (REAR) (BLACK)		ANT1	1-501-362-11	ANTENNA, TELESCOPIC (FM)	
10	3-922-977-11	CABINET (REAR) (WHITE)		SP1	1-544-518-11	SPEAKER	
11	3-369-220-01	LID, BATTERY CASE (BLACK)					
11	3-369-220-11	LID, BATTERY CASE (WHITE)					

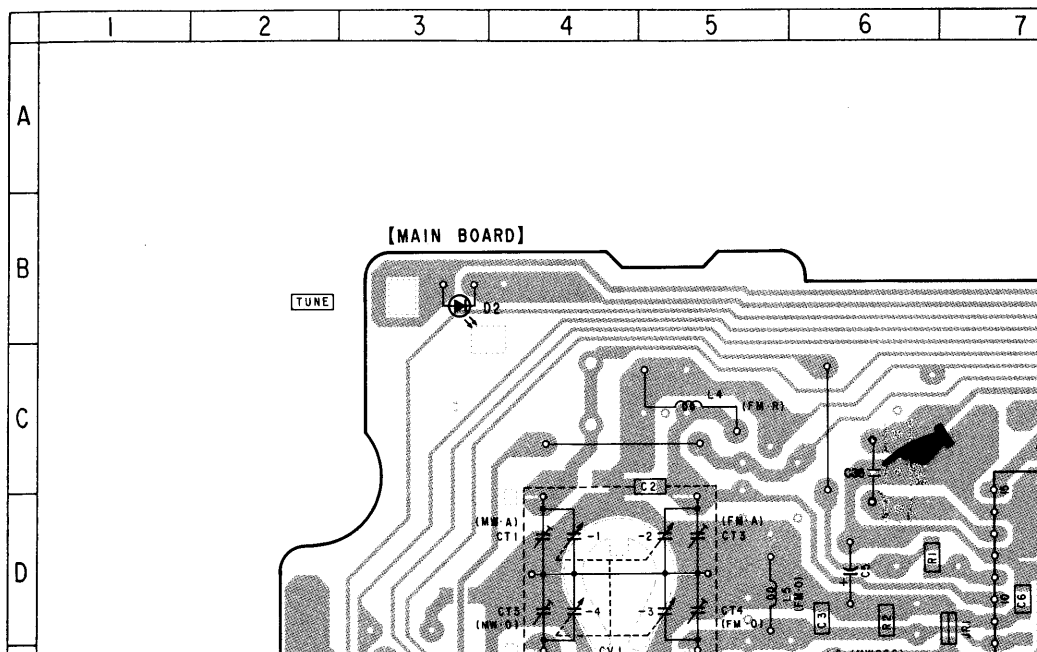
2. DIFFERENCE DIAGRAMS

2-1. SCHEMATIC DIAGRAM - MAIN -

 : Difference portion.



2-2. PRINTED WIRING BOARD



3. DIFFERENCE ELECTRICAL PARTS LIST

NOTE:

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Page	Ref. No.	ICF-480L	ICF-490L
		Part No. Description	Part No. Description
		* A-3661-290-A MAIN BOARD, COMPLETE	* A-3662-202-A MAIN BOARD, COMPLETE
		* 3-369-202-01 HOLDER, LED	* 3-922-982-01 HOLDER, LED
	BPF1	1-236-839-11 FILTER, BAND PASS	
	C2	1-163-102-00 CERAMIC CHIP 24PF 5% 50V	1-163-101-00 CERAMIC CHIP 22PF 5% 50V
	C4	1-107-090-00 MICA 160PF 5% 50V	1-163-121-00 CERAMIC CHIP 150PF 5% 50V
	C6	1-164-232-11 CERAMIC CHIP 0.01 μ F 50V	1-163-031-11 CERAMIC CHIP 0.01 μ F 50V
	C7	1-164-232-11 CERAMIC CHIP 0.01 μ F 50V	
	C9	1-163-117-00 CERAMIC CHIP 100PF 5% 50V	
	C10	1-164-232-11 CERAMIC CHIP 0.01 μ F 50V	1-163-031-11 CERAMIC CHIP 0.01 μ F 50V
	C16	1-163-232-11 CERAMIC CHIP 0.01 μ F 50V	
10	C17	1-162-638-11 CERAMIC CHIP 1 μ F 16V	1-163-154-00 CERAMIC CHIP 7PF 0.25PF 50V
	C19	1-164-232-11 CERAMIC CHIP 0.01 μ F 50V	
	C21	1-124-472-11 ELECT 470 μ F 20% 10V	1-124-442-00 ELECT 330 μ F 20% 6.3V
	C25	1-124-442-00 ELECT 330 μ F 20% 6.3V	1-128-057-11 ELECT 330 μ F 20% 6.3V
	C32	1-164-232-11 CERAMIC CHIP 0.01 μ F 50V	1-163-031-11 CERAMIC CHIP 0.01 μ F 50V
	C33	1-164-232-11 CERAMIC CHIP 0.01 μ F 50V	1-163-031-11 CERAMIC CHIP 0.01 μ F 50V
	C34	1-164-232-11 CERAMIC CHIP 0.01 μ F 50V	
	C36		1-102-951-00 CERAMIC 15PF 5% 50V
	CF1, 3	1-579-312-91 FILTER, CERAMIC	1-567-097-61 FILTER, CERAMIC
	D1	8-719-800-76 DIODE 1SS226	
	L5	1-422-294-21 COIL, AIR-CORE, OSC (FM)	1-406-442-11 COIL, AIR-CORE
	R6	1-216-037-00 METAL CHIP 330 5% 1/10W	1-216-045-00 METAL CHIP 680 5% 1/10W
	R8	1-216-081-00 METAL CHIP 22K 5% 1/10W	
	R9	1-216-065-00 METAL CHIP 4.7K 5% 1/10W	
ACCESSORIES & PACKING MATERIALS			
11		3-336-617-01 BAG, PROTECTION * 3-369-732-01 INDIVIDUAL CARTON * 3-370-051-01 CUSHION, CORRUGATED FIBER BOARD 3-753-406-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH, ITALIAN, ARABIC)	* 3-923-486-21 INDIVIDUAL CARTON 3-798-667-21 MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH, SWEDISH, ITALIAN, PORTUGUESE)
HARDWARE LIST			
11	#1	7-685-534-19 SCREW +BTP 2.6X8 TYPE2 N-S	7-685-134-19 SCREW +P 2.6X8 TYPE2 NON-SLIT
	#2	7-685-648-79 SCREW +BTP 3X12 TYPE2 N-S	7-623-508-01 LUG, 3
	#3		7-685-648-79 SCREW +BTP 3X12 TYPE2 N-S