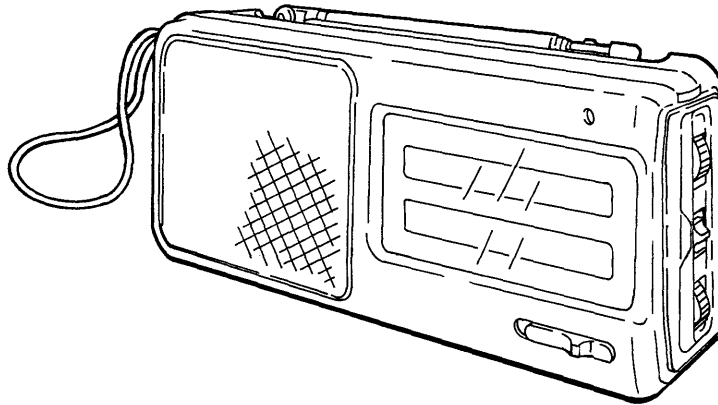


ICF-490S

SERVICE MANUAL

AEP Model
E Model



ICF-490S is almost same as ICF-480S.
This manual contains only the points which differ from ICF-480S.
Please refer to ICF-480S service manual (9-956-527-000) for the
information not contained in this manual.

SPECIFICATIONS

Frequency range FM : 87.6 - 107.5 MHz(AEP, E)
FM : 65 - 108MHz(EE)
MW : 531 - 1,602 kHz
SW : 5.95- 18 MHz

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)

EE : East European

Dimensions

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

Mass

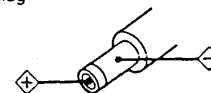
Approx. 430 g (15.2 oz) incl. batteries

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/SW 3BAND RECEIVER
SONY®

1. EXPLODED VIEW

NOTE:

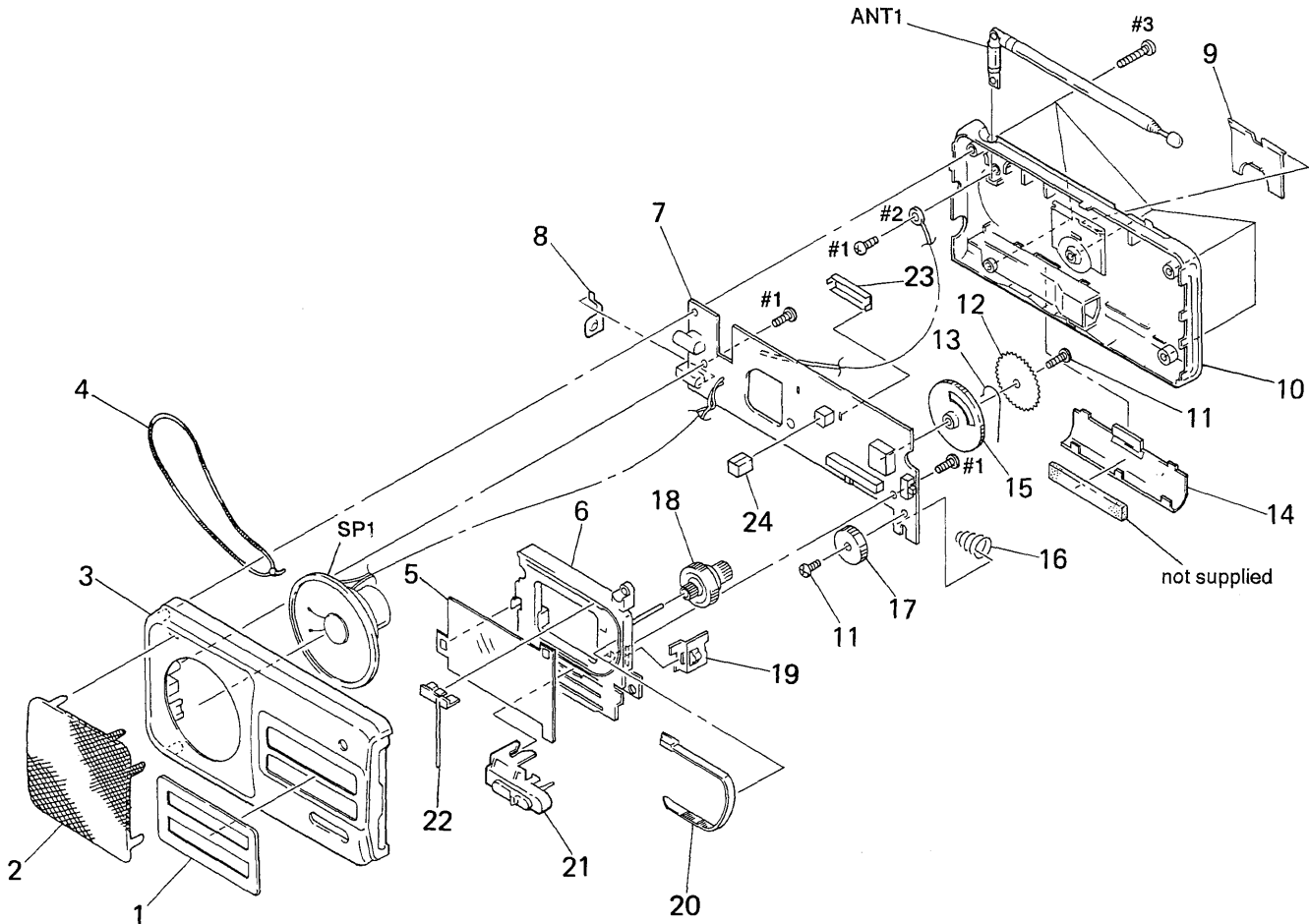
- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)

↑ ↑
Parts Color Cabinet's Color

- 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.



Ref. No.	Part No.	Description	Remark
1	3-922-978-11	SCALE, DIAL (AEP)	
1	3-922-978-21	SCALE, DIAL (EE)	
2	3-922-981-01	NET, SPEAKER (BLACK)	
2	3-922-981-11	NET, SPEAKER (WHITE)	
3	3-922-976-21	CABINET (FRONT) (BLACK)	
3	3-922-976-31	CABINET (FRONT) (WHITE)	
4	3-923-688-01	STRAP, HAND	
* 5	3-369-210-11	PLATE, BACK	
* 6	3-369-225-01	CHASSIS	
* 7	A-3661-332-A	MAIN BOARD, COMPLETE (AEP)	
* 7	A-3662-201-A	MAIN BOARD, COMPLETE (EE)	
8	3-369-207-01	TERMINAL (+), BATTERY	
9	3-380-918-11	STAND (WHITE)	
9	3-380-918-21	STAND (BLACK)	
10	3-922-977-01	CABINET (REAR) (BLACK)	
10	3-922-977-11	CABINET (REAR) (WHITE)	
11	3-370-474-21	SCREW (NYLOCK +B 1.7X4)	
12	3-369-208-01	GEAR (B), TUNING CAPACITOR	
13	3-369-213-01	SPRING (GEAR)	

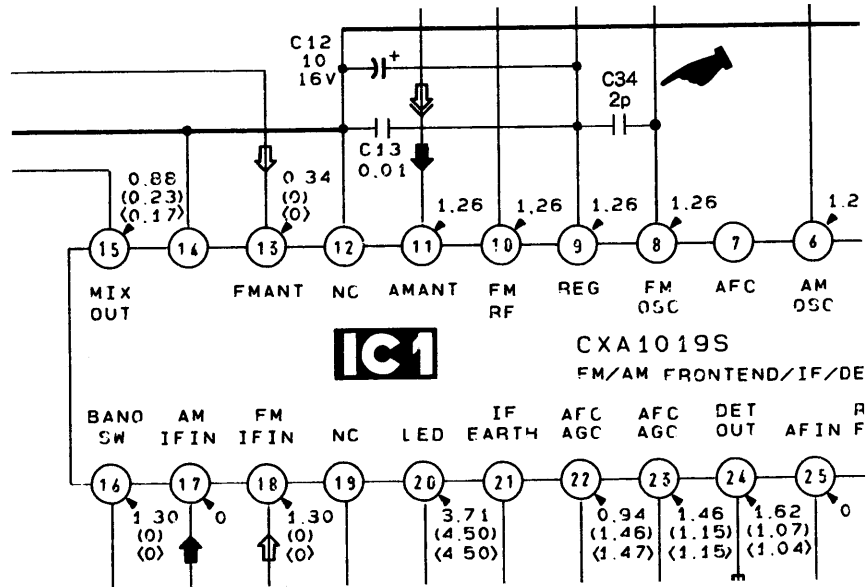
Ref. No.	Part No.	Description	Remark
14	3-369-220-01	LID, BATTERY CASE (BLACK)	
14	3-369-220-11	LID, BATTERY CASE (WHITE)	
15	3-369-218-01	GEAR (A), TUNING CAPACITOR	
16	3-369-211-01	SPRING, BATTERY COIL	
17	3-369-219-01	KNOB (VOL) (BLACK)	
17	3-369-219-11	KNOB (VOL) (WHITE)	
18	3-369-222-01	KNOB (TUNE) (BLACK)	
18	3-369-222-11	KNOB (TUNE) (WHITE)	
19	3-369-203-01	KNOB (TONE) (BLACK)	
19	3-369-203-11	KNOB (TONE) (WHITE)	
20	3-369-217-01	RACK	
21	3-922-979-01	KNOB (BAND) (BLACK)	
21	3-922-979-11	KNOB (BAND) (WHITE)	
22	3-922-980-01	POINTER	
* 23	3-369-214-01	PLATE (A), SHIELD	
* 24	3-369-215-01	PLATE (B), SHIELD	
ANT1	1-501-362-11	ANTENNA, TELESCOPIC (FM)	
SP1	1-544-518-11	SPEAKER	

2. DIFFERENCE DIAGRAMS

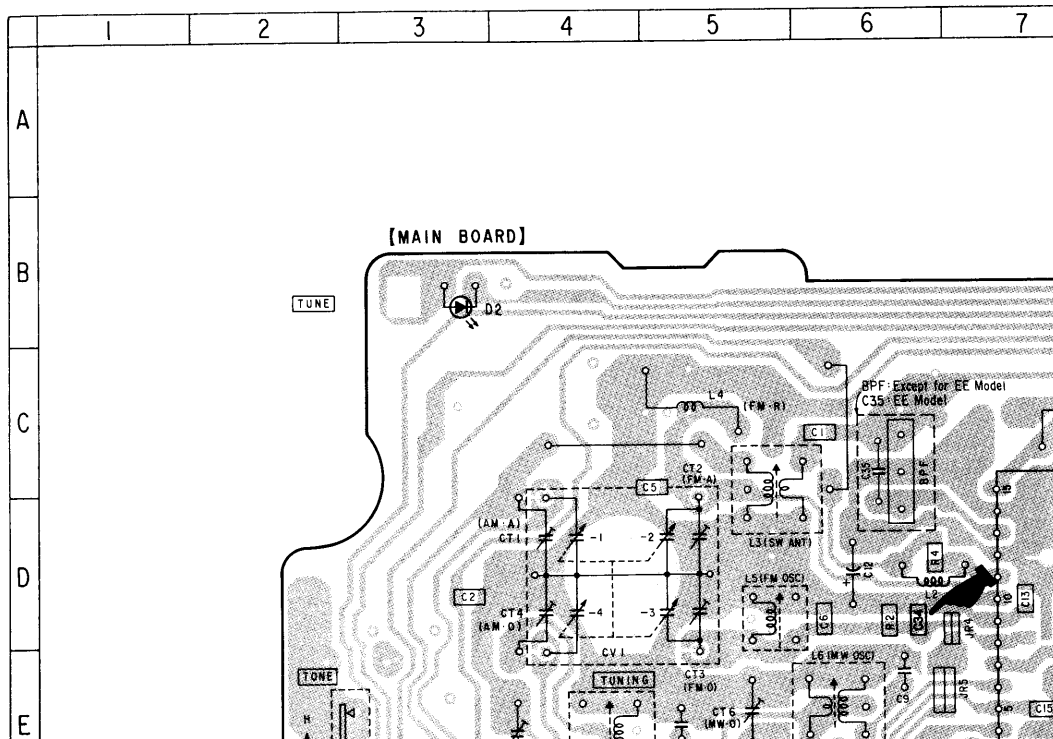
2-1. SCHEMATIC DIAGRAM – MAIN –

Service manual page 7, 8. Location C-E, 3-6.

 : 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.
- Abbreviation
 G : German
 EA : Saudi Arabia
 EE : East European

Page	Ref. No.	ICF-480S	ICF-490S
		Part No. Description	Part No. Description
10		* A-3661-902-A MAIN BOARD, COMPLETE (EE)	* A-3662-201-A MAIN BOARD, COMPLETE (EE)
		* 3-369-202-01 HOLDER, LED	* 3-922-982-01 HOLDER, LED
	C6	1-163-093-00 CERAMIC CHIP 10PF 5% 50V (EE)	1-163-093-00 CERAMIC CHIP 10PF 5% 50V (EE)
	C29	1-124-472-11 ELECT 470 μF 20% 10V	1-126-941-11 ELECT 470 μF 20% 6.3V
	C33	1-163-205-00 CERAMIC CHIP 0.001 μF 5% 50V	
	C34		1-163-085-00 CERAMIC CHIP 2PF 50V (AEP)
	D1	8-719-800-76 DIODE 1SS226	
	L2	1-412-291-11 INDUCTOR 1 μH	1-141-142-61 INDUCTOR 1 μH
ACCESSORIES & PACKING MATERIALS			
11		* 3-370-051-01 CUSHION, CORRUGATED FIBER BOARD	
		* 3-370-378-01 INDIVIDUAL CARTON (AEP, G, EE)	* 3-923-486-01 INDIVIDUAL CARTON (AEP, EE)
		* 3-371-235-01 INDIVIDUAL CARTON (E, EA)	* 3-923-486-11 INDIVIDUAL CARTON (E, EA)
		3-753-406-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, ITALIAN, ARABIC) (EA)	3-798-667-21 MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH, SWEDISH, ITALIAN, PORTUGUESE) (AEP)
		3-753-406-41 MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH, PORTUGUESE) (AEP, E, G)	
		3-753-406-51 MANUAL, INSTRUCTION (ENGLISH, POLISH, MAGYAR, CZECK, RUSSIAN) (EE)	3-798-667-31 MANUAL, INSTRUCTION (ENGLISH, POLISH, CZECK, MAGYAR, RUSSIAN) (EE)
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		7-623-508-01 LUG, 3
	#3		7-685-648-79 SCREW +BTP 3X12 TYPE2 N-S