

# ICF-C25

## SERVICE MANUAL

US Model



### SPECIFICATIONS

**Frequency range**

FM: 87.6 – 108 MHz

AM: 530 – 1605 kHz

**Speaker**

Approx. 6.6 cm (2<sup>5</sup>/<sub>8</sub> inches) dia.

**Power output**

180 mW (at 10 % harmonic distortion)

**Power requirements**

120 V AC, 60 Hz

For the power back-up function : 9 V DC, one 6F22 battery

**Battery life**

Approx. 200 minutes, using Sony S-006P(U) battery

**Dimensions**

Approx. 197 x 52 x 137.5 mm (w/h/d)

(7<sup>7</sup>/<sub>8</sub> x 2 x 5<sup>1</sup>/<sub>2</sub> inches) incl. projecting parts and controls

**Mass**

Approx. 490 g (1 lb 1 oz) not incl. battery

Design and specifications are subject to change without notice.



FM/AM CLOCK RADIO  
**SONY**®

## FEATURES

- Electronic digital alarm clock and sleep timer are combined.
- Two wake-up modes available : radio or buzzer alarm.
- SNOOZE bar, operable with a feather-light touch, offers two functions : snooze alarm and sleep timer turn off.
- Power back-up function to keep the clock operating during a power interruption, using an optional 6F22 battery.

## HOW TO CHANGED THE CERAMIC FILTERS

This model is used three ceramic filters. You must used same type of color marked ceramic filters in order to meet same specifications CF2, CF3.

Therefore, the ceramic filter must changed two pieces together since it's supply two pieces in one package as a spare parts.

mark	center frequency
CF3	red 10.70MHz
	blue 10.67MHz
	orange 10.73MHz
CF2	black 10.64MHz
	white 10.76MHz

## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

## LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

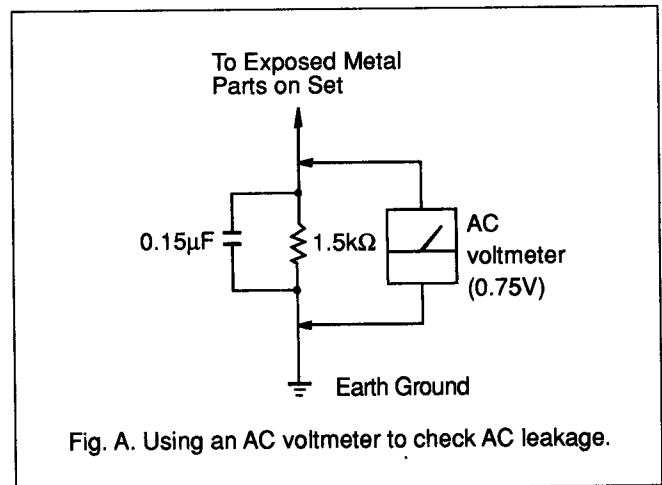


Fig. A. Using an AC voltmeter to check AC leakage.

## SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK  $\Delta$  OR DOTTED LINE WITH MARK  $\Delta$  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

**MAIN POWER SUPPLY**

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
S2	1-762-232-11	SWITCH, SLIDE (FUNCTION)	
S3	1-762-233-11	SWITCH, KEYBOARD (ALARM)	
S4	1-762-233-11	SWITCH, KEYBOARD (TIME SET M)	
S5	1-762-233-11	SWITCH, KEYBOARD (TIME SET H)	
S6	1-762-233-11	SWITCH, KEYBOARD (CLOCK)	
S7	1-762-233-11	SWITCH, KEYBOARD (SLEEP)	
S8	1-762-233-11	SWITCH, KEYBOARD (SNOOZE/SLEEP OFF)	
< TRANSFORMER >			
T1	1-404-790-11	TRANSFORMER, IF (AM)	
*****			
*	1-654-818-11	POEWR SUPPLY BOARD *****	
*****			
MISCELLANEOUS *****			
* 7	1-654-818-11	POEWR SUPPLY BOARD	
△13	1-696-008-11	CORD, POWER	
SP1	1-504-748-11	SPEAKER (6.6CM)	
△T2	1-449-801-21	TRANSFORMER, POWER	
*****			
ACCESSORIES & PACKING MATERIALS *****			
*	3-324-066-01	SHEET, PROTECTION	
	3-759-864-21	MANUAL, INSTRUCTION (ENGLISH)	
*	3-919-695-01	INDIVIDUAL CARTON	
*****			
***** HARDWARE LIST *****			
#1	7-685-549-11	SCREW +BTP 3X14 TYPE2 N-S	
#2	7-621-770-87	SCREW +P 2.6X5	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

