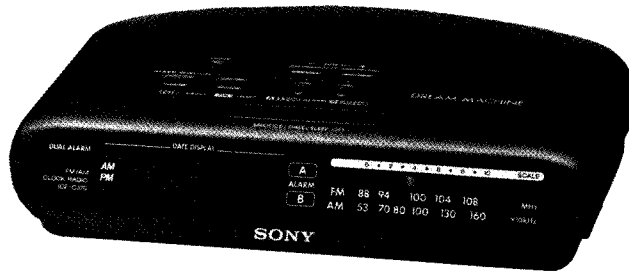


# ICF-C370

## SERVICE MANUAL

US Model  
Canadian Model  
AEP Model  
E Model  
Australian Model



### SPECIFICATIONS

#### Time display:

US, Canadian, Hong Kong, E92, Australian model:  
12-hour system  
Other model: 24-hour system

#### Frequency range:

Italian model FM: 87.5-108 MHz  
AM: 526.5-1,606.5 MHz  
Other model FM: 87.5-108 MHz  
AM: 530-1,605 kHz

#### Intermediate frequency:

FM: 10.7 MHz, AM: 455kHz

**Speaker:** Approx. 6.6 cm (2 5/8 inches) dia. 8  $\Omega$

**Power output:** 90 mW (at 10% harmonic distortion)

**Output:**  $\text{\textcircled{A}}$  jack (minijack): Italian, Spanish model

#### Power requirements:

Australian model: 240 V AC, 50 Hz  
US, Canadian E92 model: 110-120 V AC, 60 Hz  
Hong Kong model: 110-120 V/220-230 V AC, 50/60 Hz  
AEP, Italian, Spanish, E91 model: 220-230 V AC, 50 Hz  
For power backup: 9 V DC, one 6F22 battery

**Battery life:** Approx. 35 hours using the S-006P (U) battery

**Dimension:** Approx. 220  $\times$  48  $\times$  155 mm (w/h/d)  
(8 3/4  $\times$  1 7/8  $\times$  6 1/8 inches) incl.  
projecting parts and controls

**MASS:** Approx. 540 g (1 lb 3 oz) not incl. battery

Design and specifications are subject to change without notice.

E91: AC220 - 230 V 50 Hz AREA

E92: AC120 V 60Hz AREA

### FEATURES

- Dual alarm
- Date display
- Forward/reverse time setting
- Full power backup to keep the clock and the alarm (radio and buzzer) during a power interruption with a 6F22 battery (not supplied) installed. (For models other than the America model, the power back up is only for the clock.)

#### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  $\triangle$  OR DOTTED LINE WITH MARK  $\triangle$  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.

#### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

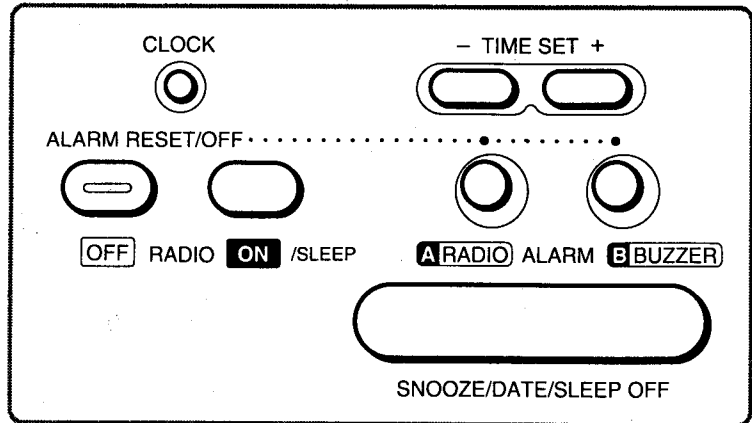
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  $\triangle$  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.



# SONY®

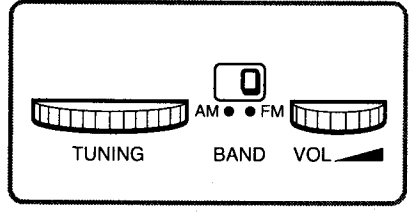
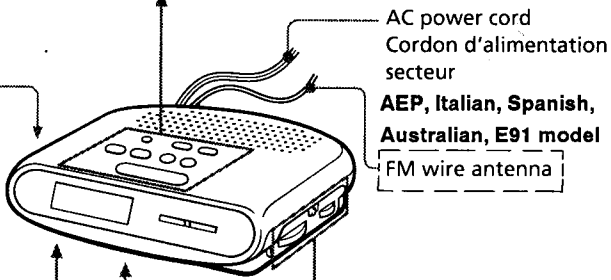
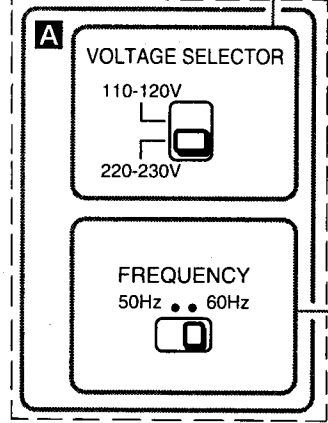
# SECTION 1 GENERAL

This section is extracted from instruction manual.

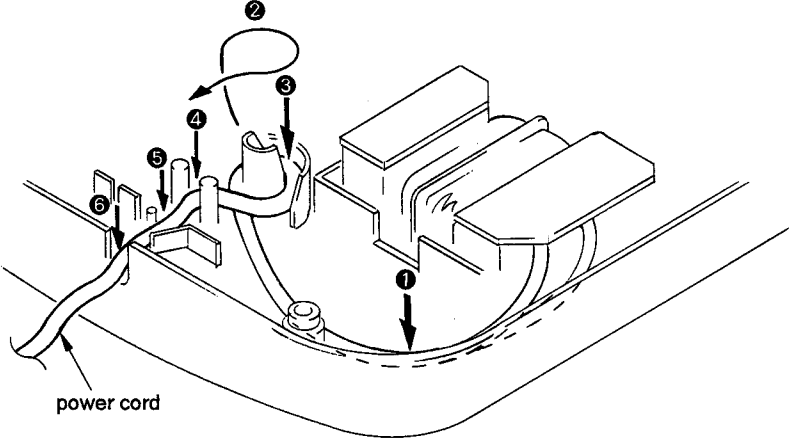


Ⓜ (earphone) jack  
(Supplied with models for Italy and Spain only.)  
Prise d'écouteurs (Ⓜ)  
(Présente uniquement sur les modèles pour l'Italie et l'Espagne.)

**Hong Kong model**



**INSTALLATION POWER CORD**



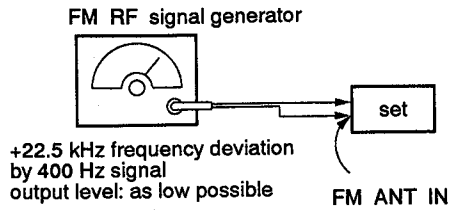
# SECTION 3 MECHANICAL ADJUSTMENTS

( ): Italian model

● **FM Section**

**Setting:**

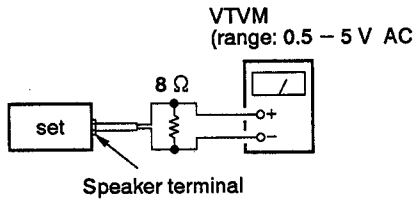
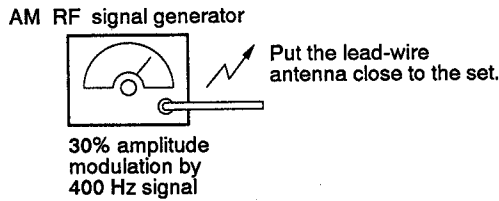
BAND switch: FM



● **AM Section**

**Setting:**

BAND switch: AM



AM IF ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T1	
455 kHz	

AM FREQUENCY COVERAGE ADEJUSTMENT	
Adjust for a maximum reading on VTVM.	
L2	CT4
520 (516.5) kHz	1,650 (1631.5) kHz

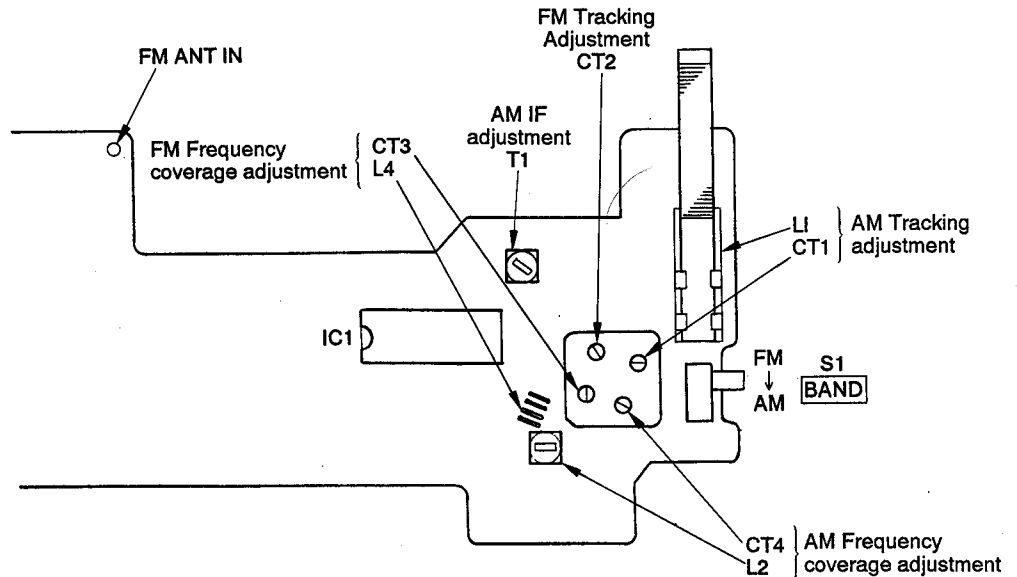
AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L1	CT1
600 kHz	1,400 kHz

FM FREQUENCY COVERAGE ADEJUSTMENT	
Adjust for a maximum reading on VTVM.	
L4	CT3
86.5 (87.35) MHz	109.5 (108.25) MHz

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
CT2	
Frequency max (98 MHz)	

**Adjustment Location:** main board (Component side)

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





## SECTION 6 ELECTRICAL PARTS LIST

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS  
All resistors are in ohms.  
METAL: Metal-film resistor.  
METAL OXIDE: Metal oxide-film resistor.  
F: nonflammable
- Abbreviation  
CND: Canadian IT: Italian ES: Spanish HK: Hong Kong AUS: Australian  
E91: AC220-230V 50Hz AREA E92: AC120V 60Hz AREA

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA...:  $\mu$ A. uPA...:  $\mu$ PA.  
uPB...:  $\mu$ PB. uPC...:  $\mu$ PC. uPD...:  $\mu$ PD.
- CAPACITORS  
uF:  $\mu$ F
- COILS  
uH:  $\mu$ H

When indicating parts by reference number, please include the board.

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

Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
*	A-3662-203-A	MAIN BOARD, COMPLETE (US, CND, E92)	
*	A-3662-255-A	MAIN BOARD, COMPLETE (AEP, E91)	
*	A-3662-258-A	MAIN BOARD, COMPLETE (IT)	
*	A-3662-261-A	MAIN BOARD, COMPLETE (ES)	
*	A-3662-264-A	MAIN BOARD, COMPLETE (AUS)	
*	A-3662-267-A	MAIN BOARD, COMPLETE (HK)	
*****			
	1-535-804-21	SNAP, BATTERY	
< CAPACITOR >			
C1	1-163-091-00	CERAMIC CHIP 8PF	50V
C2	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C3	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C4	1-163-090-00	CERAMIC CHIP 7PF	50V
C5	1-163-089-00	CERAMIC CHIP 6PF	50V
C6	1-163-091-00	CERAMIC CHIP 8PF	50V
C7	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C8	1-124-907-11	ELECT 10uF	20% 50V
C10	1-163-031-11	CERAMIC CHIP 0.01uF	50V
C11	1-124-903-11	ELECT 1uF	20% 50V
C12	1-163-031-11	CERAMIC CHIP 0.01uF	50V
C13	1-126-963-11	ELECT 4.7uF	20% 50V
C14	1-124-907-11	ELECT 10uF	20% 50V
C15	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V
C16	1-164-222-11	CERAMIC CHIP 0.22uF	25V
C17	1-126-233-11	ELECT 22uF	20% 50V
C18	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C19	1-124-443-00	ELECT 100uF	20% 10V
C20	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C21	1-124-443-00	ELECT 100uF	20% 10V
C22	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C23	1-163-017-00	CERAMIC CHIP 0.0047uF	5% 50V
C24	1-163-031-11	CERAMIC CHIP 0.01uF	50V
C25	1-164-346-11	CERAMIC CHIP 1uF	16V
C26	1-163-031-11	CERAMIC CHIP 0.01uF	50V
C27	1-163-031-11	CERAMIC CHIP 0.01uF	50V
C28	1-124-472-11	ELECT 470uF	20% 10V
C29	1-124-120-11	ELECT 220uF	20% 25V
C31	1-163-031-11	CERAMIC CHIP 0.01uF	50V
C32	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V

Ref. No.	Part No.	Description	Remark
C34	1-163-251-11	CERAMIC CHIP 100PF	5% 50V (AEP, IT, ES, AUS, E91)
C35	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
C37	1-163-251-11	CERAMIC CHIP 100PF	5% 50V (US, CND, HK, E92)
C38	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C39	1-163-031-11	CERAMIC CHIP 0.01uF	50V (US, CND, HK, E92)
< FILTER >			
CF1	1-760-144-61	FILTER, CERAMIC	
CF2	1-577-072-11	FILTER, CERAMIC	
CF3	1-760-144-61	FILTER, CERAMIC	
< VARIABLE CAPACITOR >			
CV1-4	1-141-529-11	CAP, VAR (TUNING)	
CT1-4			
< DIODE >			
D1	8-719-911-19	DIODE 1SS119	
D2	8-719-911-19	DIODE 1SS119	
D3	8-719-109-84	DIODE RD5.1ES-B1	
D4	8-719-911-19	DIODE 1SS119	
D5	8-719-911-19	DIODE 1SS119	
D6	8-719-052-88	DIODE 1N4002	
D7	1-810-026-11	LED BLOCK SL-1994-54T (US, CND, HK, E92)	
D7	1-810-026-21	LED BLOCK SL-1994-55T (AEP, IT, ES, AUS, E91)	
< IC >			
IC1	8-752-035-29	IC CXA1019S	
IC2	8-759-193-05	IC LC85632	
< JACK >			
J1	1-563-836-21	JACK (EARPHONE) (IT, ES)	
< JUMPER RESISTOR >			
JC1	1-216-295-00	METAL CHIP 0	5% 1/10W (AEP, IT, ES, E91)
JC2	1-216-295-00	METAL CHIP 0	5% 1/10W (AUS)

Ref. No.	Part No.	Description	Remark
JC3	1-216-295-00	METAL CHIP	0 5% 1/10W (US, CND, HK, E92)
JC4	1-216-295-00	METAL CHIP	0 5% 1/10W (AEP, IT, ES, AUS, E91)
< COIL >			
L1	1-402-472-31	ANTENNA, FERRITE-ROD (MW)	
L2	1-406-028-00	COIL, OSC (MW)	
L4	1-428-229-11	COIL, AIR-CORE (EXCEPT IT)	
L4	1-406-425-11	COIL (IT)	
< TRANSISTOR >			
Q1	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q2	8-729-119-76	TRANSISTOR	2SA1175-HFE (US, CND, HK, E92)
Q3	8-729-011-92	TRANSISTOR	2SC2001TP-K1K2
< RESISTOR >			
R1	1-216-017-00	METAL CHIP	47 5% 1/10W
R2	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
R3	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R5	1-216-097-00	METAL CHIP	100K 5% 1/10W
R6	1-216-093-00	METAL CHIP	68K 5% 1/10W
R7	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R8	1-216-073-00	METAL CHIP	10K 5% 1/10W
R9	1-216-113-00	METAL CHIP	470K 5% 1/10W
R10	1-216-073-00	METAL CHIP	10K 5% 1/10W
R11	1-216-073-00	METAL CHIP	10K 5% 1/10W
R12	1-216-049-00	METAL CHIP	1K 5% 1/10W
R13	1-216-049-00	METAL CHIP	1K 5% 1/10W
R14	1-216-073-00	METAL CHIP	10K 5% 1/10W
R15	1-216-295-00	METAL CHIP	0 5% 1/10W
R16	1-216-057-00	METAL CHIP	2.2K 5% 1/10W (US, CND, E92)
< VARIABLE RESISTOR >			
RV1	1-228-790-00	RES, VAR, CARBON 50K (VOL)	
< SWITCH >			
S1	1-762-231-11	SWITCH, SLIDE (BAND)	
S2	1-554-303-21	SWITCH, TACTILE (TIME SET +)	
S3	1-554-303-21	SWITCH, TACTILE (TIME SET -)	
S4	1-554-303-21	SWITCH, TACTILE (SNOOZE/DATE/SLEEP OFF)	
S5	1-554-303-21	SWITCH, TACTILE (ALARM A RADIO)	
S6	1-554-303-21	SWITCH, TACTILE (ALARM B BUZZER)	
S7	1-554-303-21	SWITCH, TACTILE (RADIO ON SLEEP)	
S8	1-554-303-21	SWITCH, TACTILE (RADIO OFF)	
S9	1-554-303-21	SWITCH, TACTILE (CLOCK)	
S10	1-762-231-11	SWITCH, SLIDE (FREQUENCY) (HK)	
AS11	1-554-192-00	SWITCH, SLIDE (VOLTAGE SELECTOR) (HK)	

Ref. No.	Part No.	Description	Remark
< TRANSFORMER >			
T1	1-404-790-11	TRANSFORMER, IF	
< TERMINAL >			
* TM1	1-535-771-11	TERMINAL	
* TM2	1-535-771-11	TERMINAL	
* TM3	1-535-771-11	TERMINAL (HK)	
< FLAT CABLE >			
W701	1-765-726-11	CORD, CONNECTION 18P	
W703	1-775-313-11	CORD, CONNECTION (4 CORE)	
W704	1-775-314-11	CORD, CONNECTION (3 CORE) (IT, ES)	
*****			
MISCELLANEOUS			
*****			
△9	1-555-795-00	CORD, POWER (AEP, IT, HK, ES, E91)	
△9	1-558-566-21	CORD, POWER (E92)	
△9	1-765-458-11	CORD, POWER (AUS)	
△9	1-769-339-11	CORD, POWER (US, CND)	
D7	1-810-026-11	LED BLOCK SL-1994-54T (US, CND, HK, E92)	
D7	1-810-026-21	LED BLOCK SL-1994-55T (AEP, IT, ES, AUS, E91)	
AS11	1-554-192-00	SWITCH, SLIDE (VOLTAGE SELECTOR) (HK)	
SP1	1-504-748-11	SPEAKER (6.6CM)	
△T2	1-427-927-11	TRANSFORMER, POWER (US, CND, E92)	
△T2	1-427-928-11	TRANSFORMER, POWER (AEP, IT, ES, AUS, E91)	
△T2	1-427-996-11	TRANSFORMER, POWER (HK)	
*****			
ACCESSORIES & PACKING MATERIALS			
*****			
	3-798-576-11	MANUAL, INSTRUCTION (FRENCH, ENGLISH) (CND, AEP)	
	3-798-576-21	MANUAL, INSTRUCTION (ENGLISH) (US)	
	3-798-576-31	MANUAL, INSTRUCTION (ENGLISH) (AEP)	
	3-798-576-41	MANUAL, INSTRUCTION (ENGLISH, ITALIAN, CHINESE, SPANISH) (IT, HK, ES, AUS, E91, E92)	
*	3-924-024-01	INDIVIDUAL CARTON (AEP, IT, ES, AUS, , E91)	
*	3-924-026-01	INDIVIDUAL CARTON (US, HK, E92)	
*	3-924-032-01	INDIVIDUAL CARTON (CND)	
*****			
*****			
HARDWARE LIST			
*****			
#1	7-685-649-79	SCREW +P 3X14 TYPE2 NON-SLIT	
#2	7-685-647-79	SCREW +P 3X10 TYPE2 NON-SLIT	
#3	7-685-147-11	SCREW +PTP 3X10	

<p>The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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