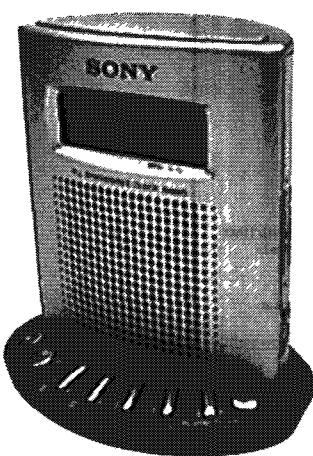


ICF-C713

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model



SPECIFICATIONS

Time display

US, Canadian,	
E model	12 hour
AEP, Italian model	24 hour

Frequency range

US, Canadian, E model	
Band	Channel step
FM 87 5 - 108 MHz	0 1 MHz
AM 530 - 1,710 kHz	10 kHz
AEP, Italian model	
Band	Channel step
FM 87 5 - 108 MHz	0 05 MHz*
AM 531 - 1,602 kHz	9 kHz

* The frequency display is raised or lowered by steps of 0 1 MHz
(Example Frequency 88 05 MHz is displayed as "88 0 MHz")

Speaker

Approx. 5 7 cm (2 1 / 4 in) dia

Power output

150 mW (at 10% harmonic distortion)

Power requirements

US, Canadian model. 120 V AC, 60 Hz
AEP, E, Italian model 220-230 V AC, 50 Hz

Dimensions

Approx. 115 x 123 x 85 mm (w/h/d)
(4 5 / 8 x 4 7 / 8 x 3 3 / 8 in) incl projecting parts and controls

Mass

Approx. 480 g (1 lb 0 9 oz)

Design and specifications are subject to change without notice

FEATURES

- Dual alarm FM/AM PLL (phase locked loop) synthesized clock radio
- 5 random memory presets
- Radio and buzzer alarms with the snooze function
- LCD display with backlight which has a brightness switch

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ▲ OR DOTTED LINE WITH MARK ▲ 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 ▲ 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.

FM/AM PLL SYNTHESIZED CLOCK RADIO

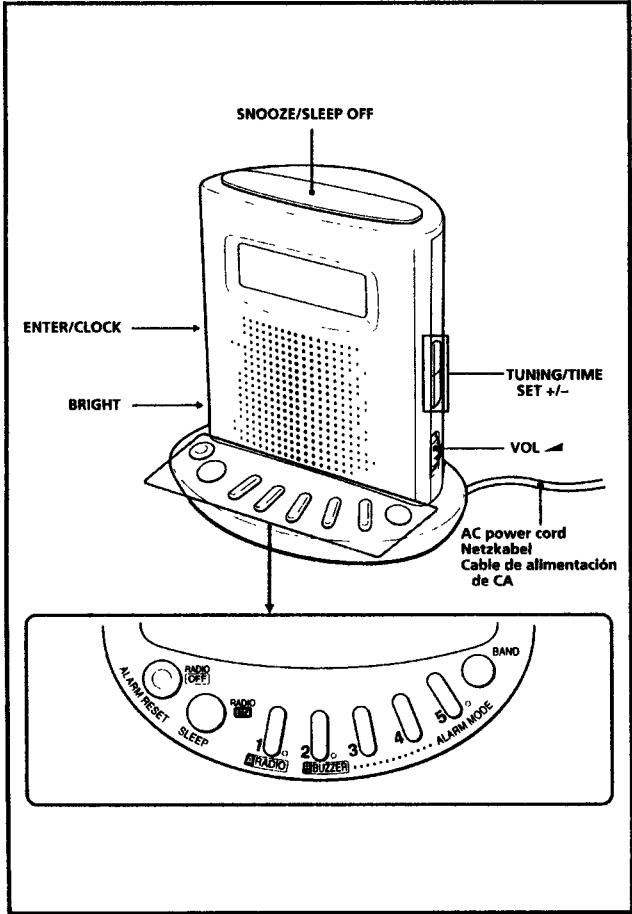


992573011

SONY®

SECTION 1 GENERAL

This section extracted from
instruction manual.



Setting the Clock

- 1 Plug in the clock radio.
The display will flash "AM 12 00" or "0.00"
- 2 While holding down **ENTER/CLOCK**,
press **TUNING/TIME SET +** or **-** until the
correct time appears in the display
When you release **ENTER/CLOCK**, the
clock begins to operate.

- To set the current time rapidly, keep pressing the **+** or **-** button while holding down **ENTER/CLOCK**
- The clock system varies depending on the model you own
12-hour system: "AM 12:00" = midnight
24-hour system: "0:00" = midnight
- To set the current time from zero seconds, release **ENTER/CLOCK** with the time signal at step 2
- The colon ":" in the time indication is flashing
when the radio is off and steadily displayed
when it is on

Operating the Radio Manual Tuning

- 1 Press **RADIO ON** to turn on the radio.
The band and frequency will appear in the
display for a few seconds. Then the current
time indication returns to the display
- 2 Press **BAND** repeatedly to select the
desired band.

- 3 Use **TUNING/TIME SET +** or **-** to tune in
the desired station.

The FM channel step is set to 0.1 MHz and the
AM channel step is set to 10 kHz for the model
for the North and South America. The FM
channel step is set to 0.05 MHz and the AM
(MW) channel step is set to 9 kHz for the model
for other countries.

A beep sounds and the tuning stops when the
upper or lower extremity of the band range is
reached

- 4 Adjust volume using **VOL**.

• To turn off the radio, press **RADIO OFF**

• To improve reception

FM: Extend the AC power cord fully to increase
FM reception sensitivity, since the cord acts
as an FM wire antenna

AM: Rotate the unit horizontally for optimum
reception. A ferrite bar is built in to the unit

• To check the current station, press the **+** button
lightly. The band and frequency are displayed for
a few seconds, after which the current time
indication returns to the display

• If the radio alarm A RADIO comes on while the
radio is playing, the station switches to the
frequency set under preset number 1 (the wake-
up frequency)

To set the brightness of the backlight

Set **BRIGHT** to **HIGH** or **LOW** to make the display
visible

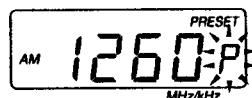
Preset Tuning

You can preset up to five stations for one-touch
tuning, one under each of preset buttons 1 to 5

Presetting a station

Example: To set AM 1260 kHz in preset
button 2

- 1 Tune in the station you want to preset.
(See "Manual Tuning")
- 2 Press **ENTER/CLOCK**.
"P" flashes in the display for a few seconds



- 3 Press the preset button under which you
wish to store the station while the "P"
indication is flashing.
Two beeps sound to indicate successful
presetting.



- When using the radio alarm, preset the station
you wish to serve as the alarm (the wake-up
frequency) under preset button 1

To change a preset station

Press the preset button again after tuning manually
to a different station. The previous station is
replaced by the new one

Tuning in a preset station

- 1 Press **RADIO ON** to turn on the radio.
- 2 Press the preset button under which the
desired station is stored

Setting the Alarm

You can set the radio and buzzer alarms at the preset time. Before setting the alarm, be sure to set the clock (See "Setting the Clock") and preset a radio station under preset button 1 (See "Preset Tuning").

- 1 Turn off the radio.
- 2 While holding down **A RADIO** or **B BUZZER**, press either **TUNING/TIME SET +** or **-** until the desired time appears in the display
At this time, the "A RADIO" or "B BUZZER" indication flashes in the display
- 3 Release **A RADIO** or **B BUZZER**.
- 4 Press **ALARM MODE** until the alarm you want flashes in the display.
Each time you press **ALARM MODE**, the alarm indication changes as follows

No alarm indication → **RADIO** → **BUZZER**
↓ **RADIO** and **BUZZER** ↓

When the alarm time is reached, the radio or buzzer sounds for 60 minutes or until turned off

To stop the alarm

Press **ALARM RESET** while the alarm is activated.
The alarm will function at the same time the next day

To cancel the alarm

Press **ALARM MODE** until neither the "A RADIO" nor "B BUZZER" indication is displayed.

Notes

- The alarm does not function, unless you set the clock, A RADIO and B BUZZER function
- If both the radio and buzzer alarm are set for the same time, the radio alarm takes precedence
- You can check the alarm time setting by pressing **A RADIO** or **B BUZZER**

To doze for a few more minutes

- 1 Press **SNOOZE/SLEEP OFF**
The radio or buzzer will shut off but will automatically come on again after about 8 minutes. You can repeat this process as many times as you like.
- You can reset the alarm time while activating the snooze function

Setting the Sleep Timer

You can enjoy falling asleep to the radio using the built-in sleep timer that turns off the radio automatically after a preset duration

- 1 Press **SLEEP**.
The radio turns on. It will go off after the preset time has passed. You can set the sleep timer to 90, 60, 30, or 15 minutes. Every push changes the display as follows

Current time → On → 90(min)
↑ 15 ← 30 ← 60 ←

The radio will play for the time you set, then shut off

- To turn off the radio before the preset time, press **SNOOZE/SLEEP OFF**

To Use Both Sleep Timer and Alarm

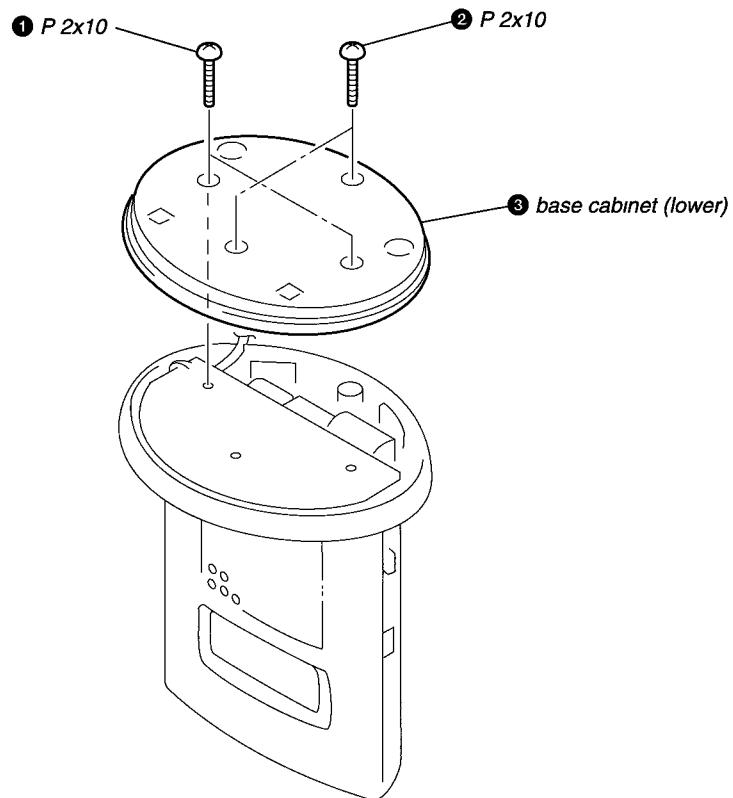
You can fall asleep to the radio sound and you will be awakened by the radio or buzzer alarm at the preset time

- 1 Set the alarm. (See "Setting the Alarm")
- 2 Set the sleep timer.(See "Setting the Sleep Timer")

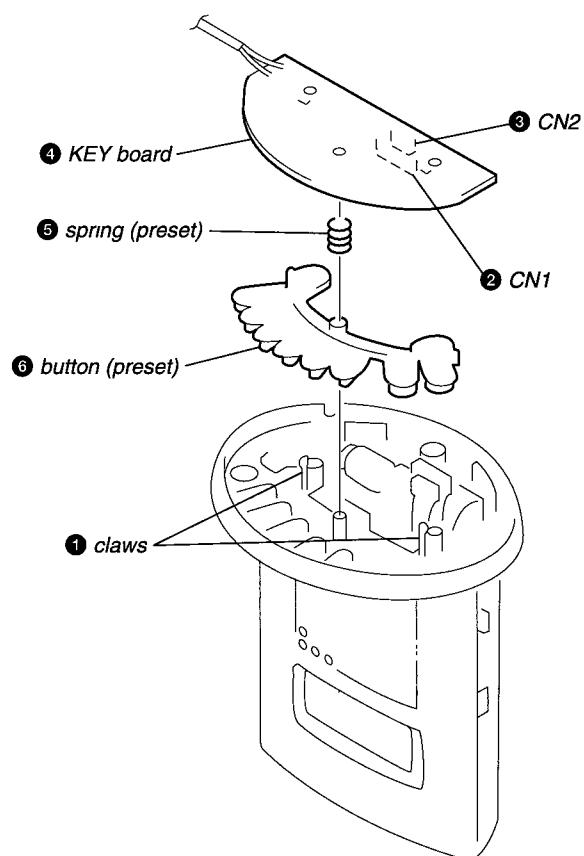
SECTION 2 DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

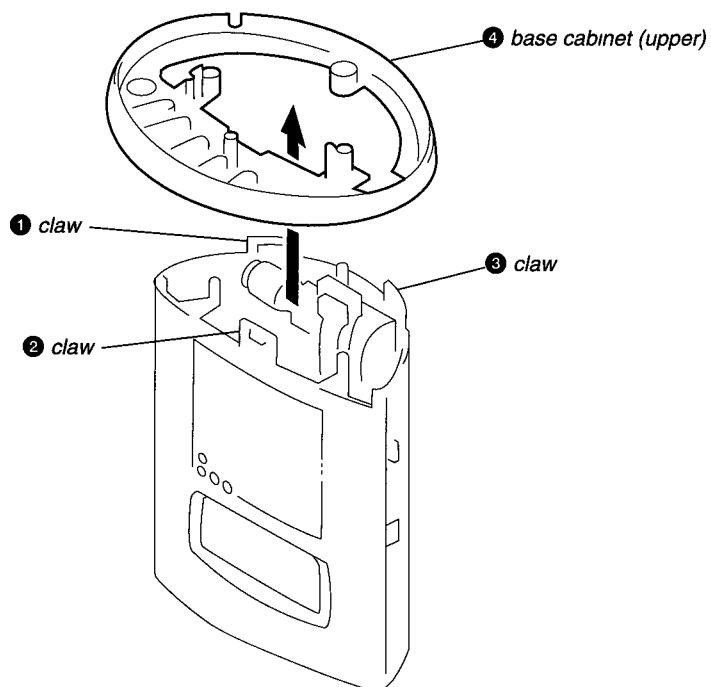
2-1. BASE CABINET (LOWER)



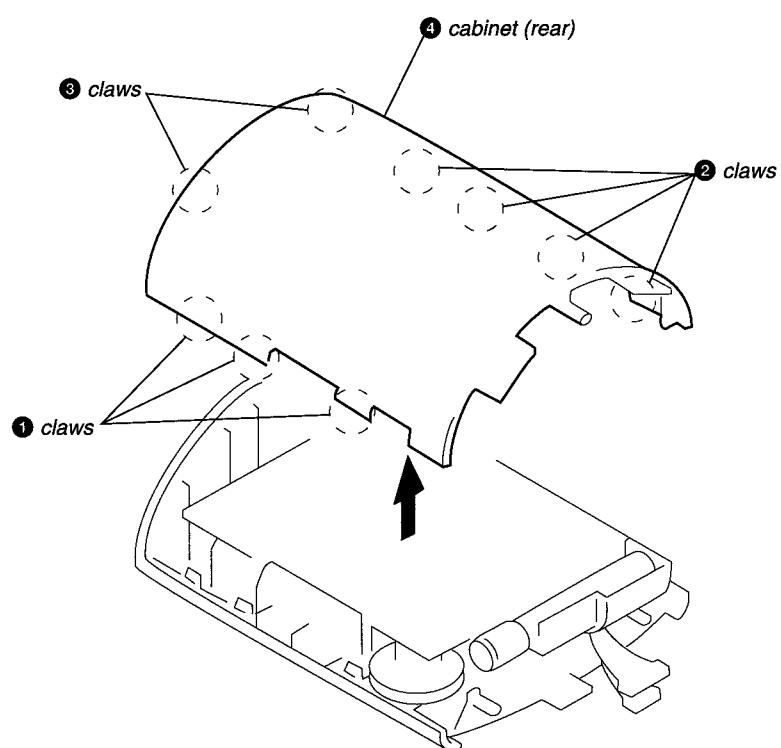
2-2. KEY BOARD



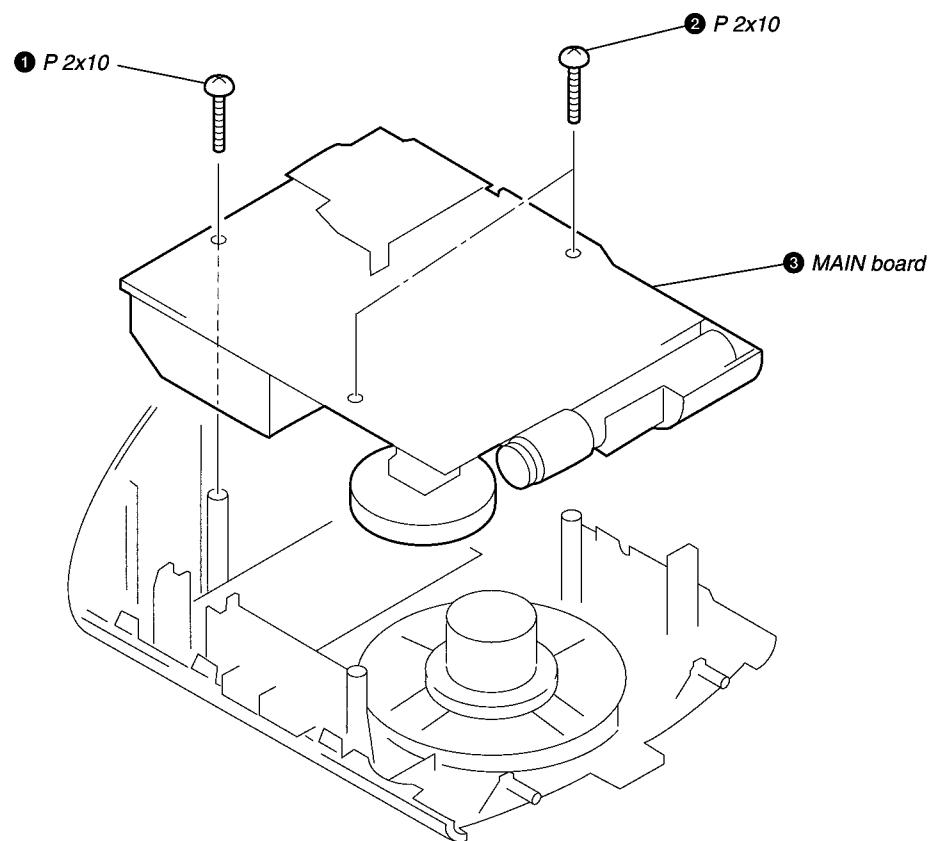
2-3. BASE CABINET (UPPER)



2-4. CABINET (REAR)



2-5. MAIN BOARD



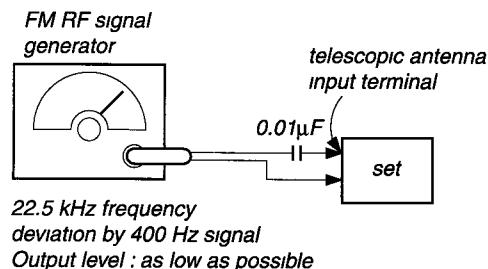
SECTION 3 ELECTRICAL ADJUSTMENTS

0 dB = 1 µV

• **FM Section**

Setting :

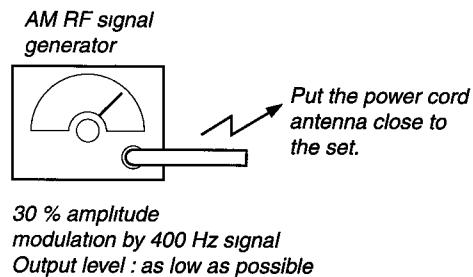
RADIO ON button : On
BAND button : FM



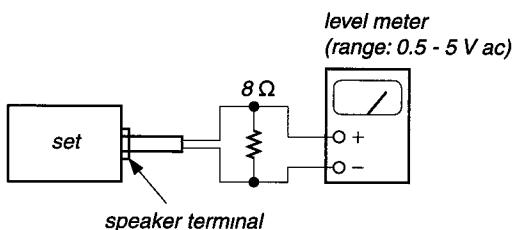
• **AM Section**

Setting :

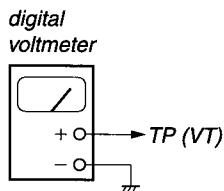
RADIO ON button : On
BAND button : AM



• **Connecting Level Meter (FM and AM)**



• **Connecting Digital Voltmeter (FM and AM)**



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

FM VCO VOLTAGE ADJUSTMENT

Adjust for the following value reading on digital voltmeter.

Adjustment Part	<confirmation>	L4
Frequency Display	87.5 MHz	108.0 MHz
Reading on Digital voltmeter	More than 1.2 V Standard 1.6 V	9.5 ± 1.0 V

FM TRACKING ADJUSTMENT

Adjust for a maximum reading on level meter.

L3	CT3
87.5 MHz	108.0 MHz

AM IF ADJUSTMENT

Adjust for a maximum reading on level meter

T1	450 kHz
----	---------

AM VCO VOLTAGE ADJUSTMENT

Adjust for the following value reading on digital voltmeter.

Adjustment Part	L5	<confirmation>
Frequency Display	530 kHz (531 kHz)	1,710 kHz (1,602 kHz)
Reading on Digital voltmeter	2.75 V	Less than 11.0 V Standard 10.0 V (Less than 10.0 V) (Standard 9.0 V)

AM TRACKING ADJUSTMENT

Adjust for a maximum reading on level meter.

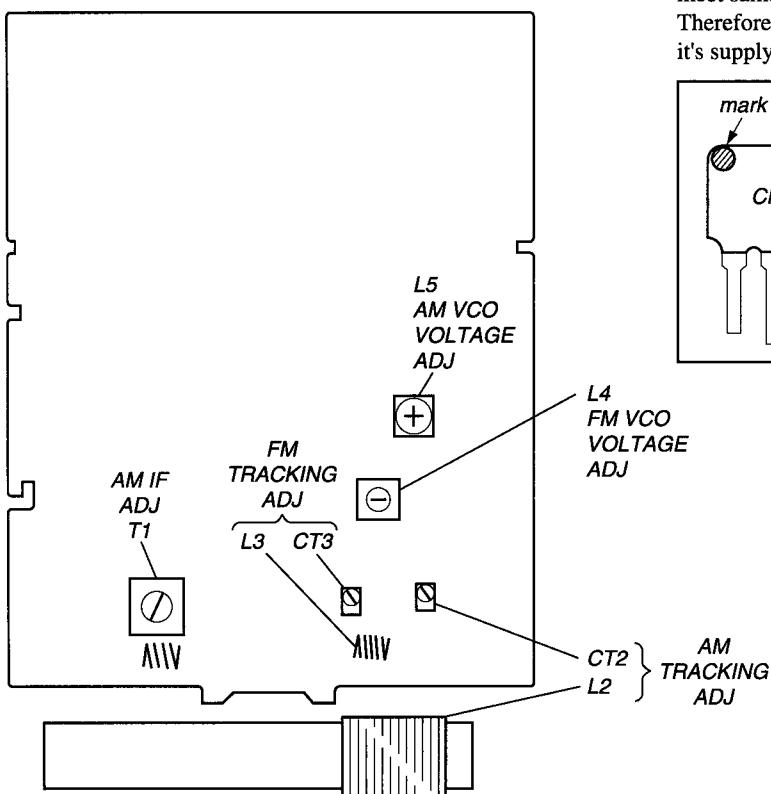
L2	CT2
580 kHz (621 kHz)	1,490 kHz (1,404 kHz)

() : AEP, Italian model

Adjustment Location : See page 8.

Adjustment Location : main board

-main board (component side) -

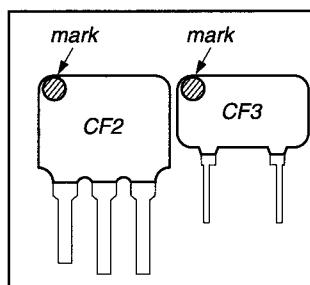


HOW TO CHANGE THE CERAMIC FILTERS

This model is used two ceramic filters of CF2 and 3.

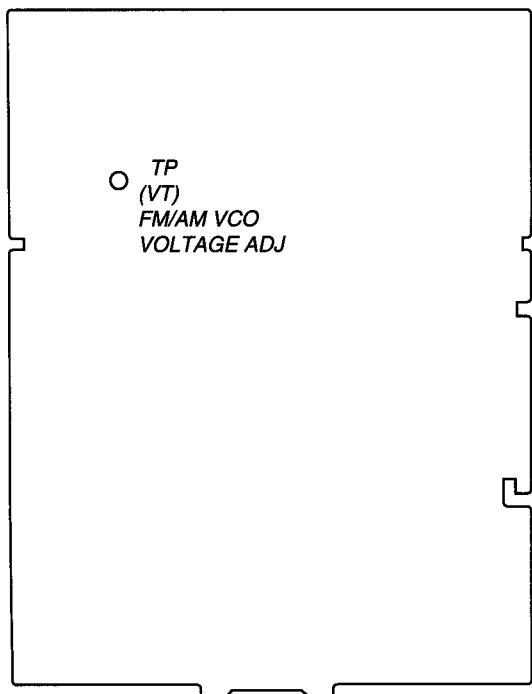
You must use same type of color marked ceramic filters in order to meet same specifications.

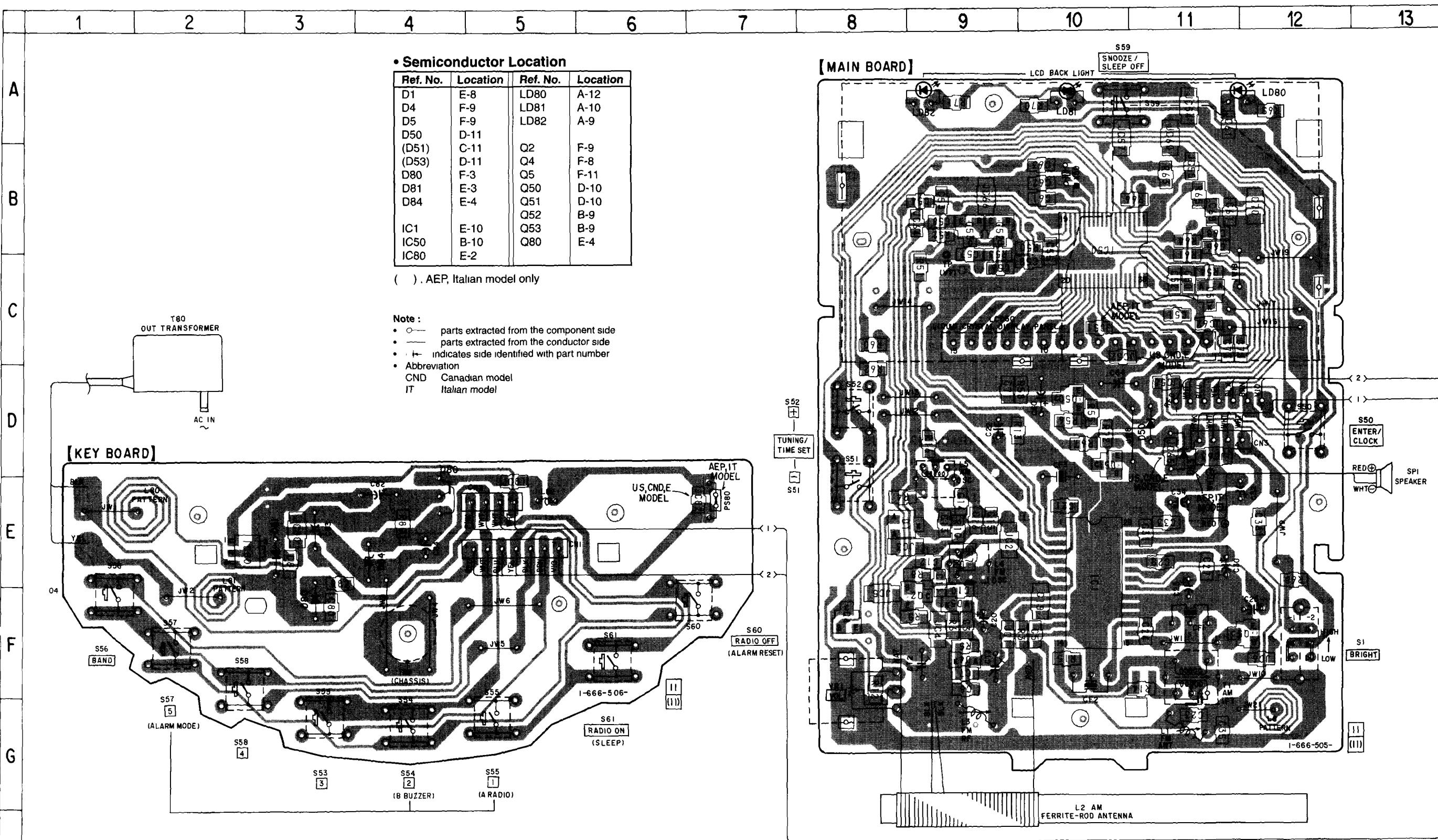
Therefore, the ceramic filter must change two pieces together since it's supply two pieces in one package as a spare parts.



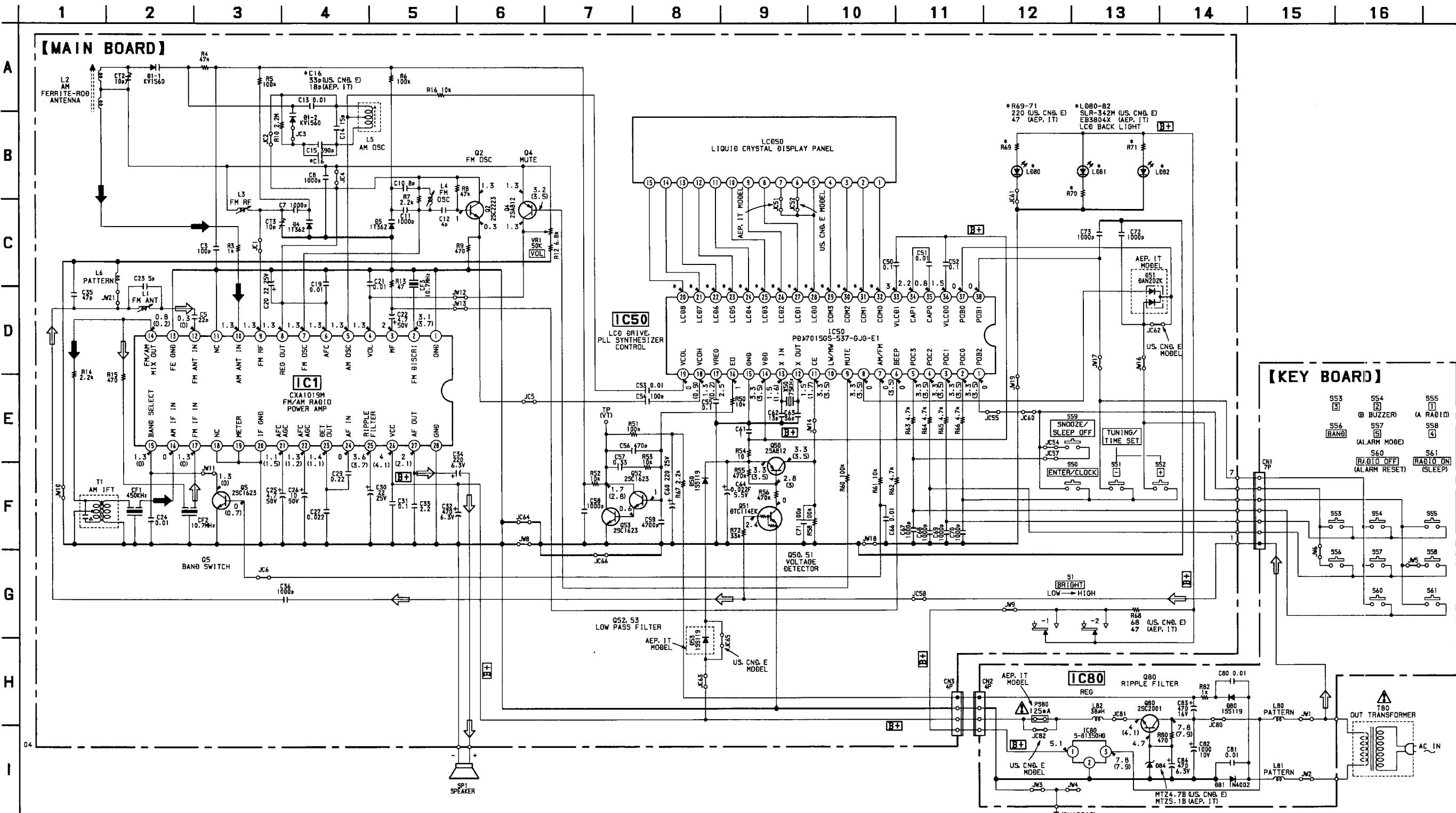
mark	Center Frequency
red	10.70 MHz
blue	10.67 MHz
orange	10.73 MHz
black	10.64 MHz
white	10.76 MHz

-main board (conductor side) -



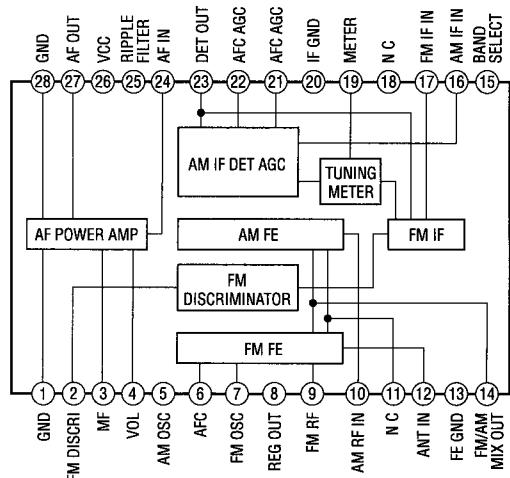
**SECTION 4
DIAGRAMS**
4-1. PRINTED WIRING BOARDS


4-2. SCHEMATIC DIAGRAM • Refer to page 13 for IC Block Diagram.



• IC Block Diagram

IC1 CXA1019M



SECTION 5 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied
- Items marked “ Δ ” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items
- Abbreviation
IT Italian model

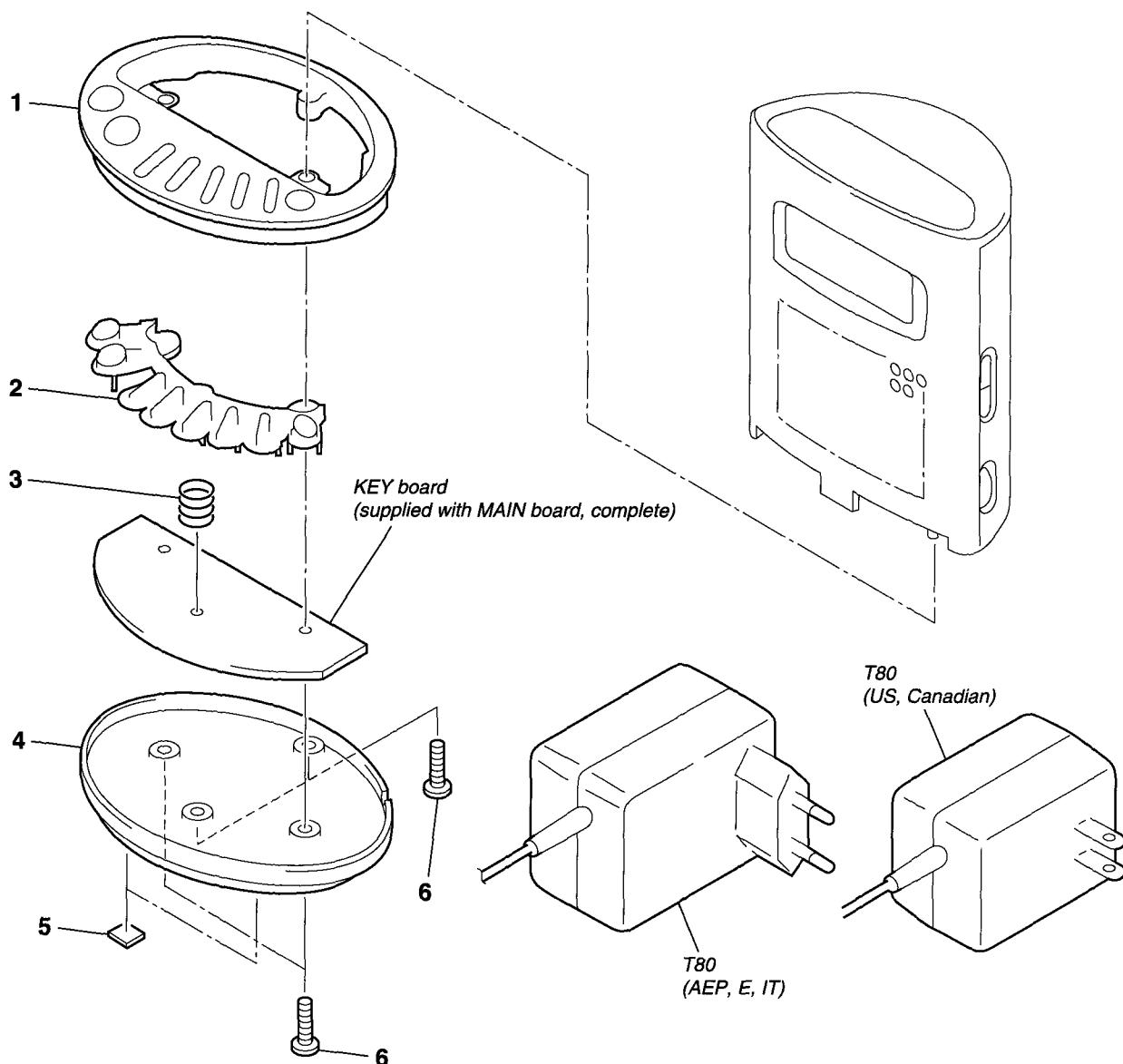
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
Example
KNOB, BALANCE (WHITE) . (RED)

Parts Color	Cabinet's Color
-------------	-----------------
- Accessories and packing materials are given in the last of this parts list.

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

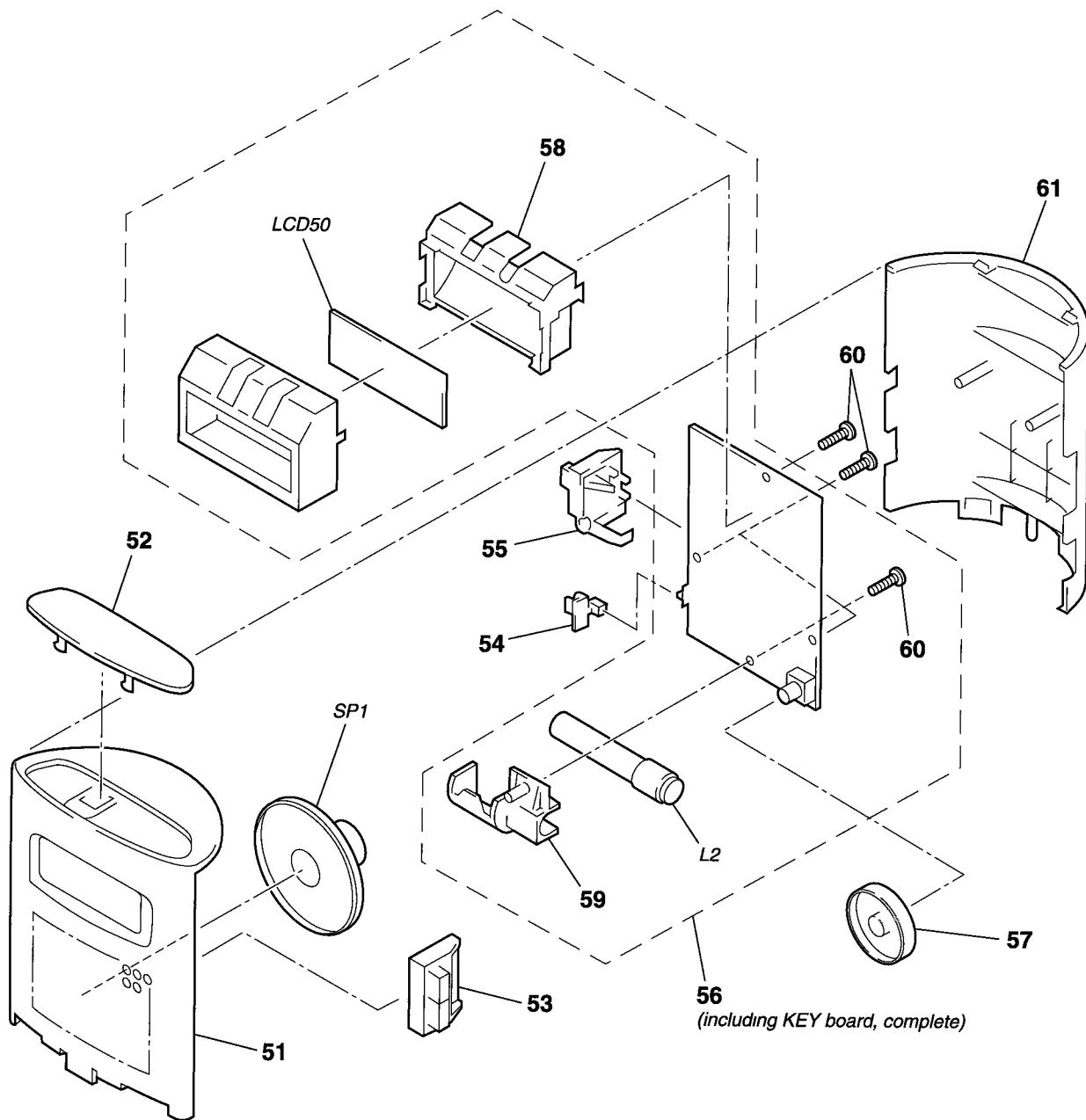
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. KEY BOARD SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-015-449-01	CABINET (UPPER), BASE		5	3-368-852-01	FOOT	
2	3-015-459-01	BUTTON (PRESET)		6	7-685-106-01	SCREW +P 2X10 TYPE1	
3	3-017-680-01	SPRING (PRESET)		Δ T80	1-468-231-11	POWER UNIT (US,Canadian)	
4	3-015-450-01	CABINET (LOWER), BASE (US,Canadian)		Δ T80	1-468-232-11	POWER UNIT (AEP,E,IT)	
4	3-015-450-11	CABINET (LOWER), BASE (AEP,E,IT)					

5-2. MAIN BOARD SECTION



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
51	X-3374-171-1	FRONT CABINET ASSY		57	3-015-460-01	KNOB (VOLUME)	
52	3-015-456-01	BUTTON (SNOOZE/SLEEP OFF)		58	3-015-451-01	HOLDER (LCD)	
53	3-015-457-01	BUTTON (+/-)		59	3-015-452-01	HOLDER (ANT)	
54	3-015-453-01	KNOB (BRIGHT)		60	7-685-106-01	SCREW +P 2X10 TYPE1	
55	3-015-458-01	BUTTON (ENTER/CLOCK)		61	3-015-448-01	CABINET (REAR)	
* 56	A-3679-913-A	MAIN BOARD, COMPLETE (INCLUDING KEY BOARD, COMPLETE) (US,Canadian)		L2	1-501-921-11	ANTENNA, FERRITE-ROD (AM)	
* 56	A-3679-914-A	MAIN BOARD, COMPLETE (INCLUDING KEY BOARD, COMPLETE) (AEP,IT)		LCD50	1-801-771-11	DISPLAY PANEL, LIQUID CRYSTAL	
* 56	A-3679-917-A	MAIN BOARD, COMPLETE (INCLUDING KEY BOARD, COMPLETE) (E)		SP1	1-503-616-11	SPEAKER	

KEY**MAIN**

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
IT · Italian model

- 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 : μ , for example
uA . μ A . uPA . μ PA
uPB.. . μ PB . uPC . μ PC . uPD.. . μ PD..
- **CAPACITORS**
uF . μ F
- **COILS**
uH . μ H

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

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

When indicating parts by reference number, please include the board

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark						
KEY BOARD, COMPLETE (SUPPLIED WITH MAIN BOARD, COMPLETE)																	

< CAPACITOR >																	
C80	1-163-031-11	CERAMIC CHIP	0.01uF	50V		S53	1-762-233-11	SWITCH, KEYBOARD (3)									
C81	1-163-031-11	CERAMIC CHIP	0.01uF	50V		S54	1-762-233-11	SWITCH, KEYBOARD (2 (B BUZZER))									
C82	1-126-926-11	ELECT	1000uF	20%	10V	S55	1-762-233-11	SWITCH, KEYBOARD (1 (A RADIO))									
C83	1-126-935-11	ELECT	470uF	20%	6.3V	S56	1-762-233-11	SWITCH, KEYBOARD (BAND)									
C84	1-126-935-11	ELECT	470uF	20%	6.3V	S57	1-762-233-11	SWITCH, KEYBOARD (5 (ALARM MODE))									
< CONNECTOR >																	
* CN1	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P				S58	1-762-233-11	SWITCH, KEYBOARD (4)									
* CN2	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P				S60	1-762-233-11	SWITCH, KEYBOARD (RADIO OFF (ALARM RESET))									
< DIODE >																	
D80	8-719-911-19	DIODE 1SS119-25				S61	1-762-233-11	SWITCH, KEYBOARD (RADIO ON (SLEEP))									
D81	8-719-052-88	DIODE 1N4002				*****											
D84	8-719-010-34	DIODE UZ-4 7BSC (US,Canadian,E)				*****											
D84	8-719-109-85	DIODE RD5 1ESB2 (AEP,IT)				*****											
< IC >																	
IC80	8-759-512-69	IC S-81350HG-KD				< CAPACITOR >											
< JUMPER RESISTOR >																	
JC80	1-216-296-00	CONDUCTOR, CHIP	(3216)			C3	1-163-251-11	CERAMIC CHIP	100PF	5%	50V						
JC81	1-216-295-00	CONDUCTOR, CHIP	(2012)			C5	1-163-235-11	CERAMIC CHIP	22PF	5%	50V						
JC82	1-216-295-00	CONDUCTOR, CHIP	(2012)			C7	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V						
			(US,Canadian,E)			C8	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V						
< COIL >																	
L82	1-410-294-11	INDUCTOR, MICRO 38uH				C10	1-163-091-00	CERAMIC CHIP	8PF		50V						
< IC LINK >																	
△ PS80	1-533-901-21	LINK, IC (125mA) (AEP,IT)				C11	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V						
< TRANSISTOR >																	
Q80	8-729-011-92	TRANSISTOR 2SC2001TP-K1K2				C12	1-163-087-00	CERAMIC CHIP	4PF		50V						
< RESISTOR >																	
R80	1-216-041-00	METAL CHIP	470	5%	1/10W	C13	1-163-031-11	CERAMIC CHIP	0.01uF	50V							
R82	1-216-049-11	METAL GLAZE	1K	5%	1/10W	C14	1-163-231-11	CERAMIC CHIP	22uF	20%	25V						
< CERAMIC CHIP >																	
C22	1-126-963-11	ELECT	4.7uF	20%	50V	C15	1-163-131-00	CERAMIC CHIP	390PF	5%	50V						
C23	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V	C16	1-163-099-00	CERAMIC CHIP	18PF	5%	50V						
C24	1-163-031-11	CERAMIC CHIP	0.01uF			C17	1-163-239-11	CERAMIC CHIP	33PF	5%	50V						
C25	1-126-963-11	ELECT	4.7uF	20%	50V	C18	1-163-059-00	CERAMIC CHIP	0.01uF	10%	50V						
C26	1-126-964-11	ELECT	10uF	20%	50V	C19	1-128-551-11	ELECT	0.01uF	20%	25V						

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description	Remark
C27	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V			< IC >	
C29	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V				
C30	1-128-551-11	ELECT	22uF	20%	25V	IC1	8-752-050-16	IC CXA1019M	
C31	1-163-038-00	CERAMIC CHIP	0.1uF		25V	IC50	8-759-432-29	IC uPD17015GS-537-GJG-E1	
C32	1-126-935-11	ELECT	470uF	20%	6.3V			< JUMPER RESISTOR >	
C33	1-164-505-11	CERAMIC CHIP	2.2uF		16V				
C34	1-124-635-00	ELECT	220uF	20%	6.3V	JC1	1-216-295-00	CONDUCTOR, CHIP	(2012)
C35	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	JC2	1-216-296-00	CONDUCTOR, CHIP	(3216)
C36	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	JC3	1-216-296-00	CONDUCTOR, CHIP	(3216)
C50	1-163-038-00	CERAMIC CHIP	0.1uF		25V	JC4	1-216-296-00	CONDUCTOR, CHIP	(3216)
C51	1-163-031-11	CERAMIC CHIP	0.01uF		50V	JC5	1-216-296-00	CONDUCTOR, CHIP	(3216)
C52	1-163-038-00	CERAMIC CHIP	0.1uF		25V	JC6	1-216-295-00	CONDUCTOR, CHIP	(2012)
C53	1-163-031-11	CERAMIC CHIP	0.01uF		50V	JC51	1-216-295-00	CONDUCTOR, CHIP	(2012) (AEP,IT)
C54	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	JC52	1-216-295-00	CONDUCTOR, CHIP	(2012)
C55	1-163-038-00	CERAMIC CHIP	0.1uF		25V	JC54	1-216-296-00	CONDUCTOR, CHIP	(US,Canadian,E)
C56	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	JC55	1-216-295-00	CONDUCTOR, CHIP	(2012)
C57	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V				
C58	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	JC57	1-216-296-00	CONDUCTOR, CHIP	(3216)
C59	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	JC58	1-216-295-00	CONDUCTOR, CHIP	(2012)
C60	1-104-666-11	ELECT	220uF	20%	25V	JC60	1-216-296-00	CONDUCTOR, CHIP	(3216)
C61	1-164-346-11	CERAMIC CHIP	1uF		16V	JC61	1-216-295-00	CONDUCTOR, CHIP	(2012)
C62	1-163-096-00	CERAMIC CHIP	13PF	5%	50V	JC62	1-216-295-00	CONDUCTOR, CHIP	(US,Canadian,E)
C63	1-163-106-00	CERAMIC CHIP	36PF	5%	50V				
C64	1-125-691-11	DOUBLE LAYERS	0.022F		5.5V	JC63	1-216-296-00	CONDUCTOR, CHIP	(3216)
C66	1-163-031-11	CERAMIC CHIP	0.01uF		50V	JC64	1-216-295-00	CONDUCTOR, CHIP	(2012)
						JC65	1-216-295-00	CONDUCTOR, CHIP	(2012)
C67	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V				
C68	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	JC66	1-216-296-00	CONDUCTOR, CHIP	(3216)
C69	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V				
C70	1-163-205-00	CERAMIC CHIP	0.001uF	5%	50V				
C71	1-163-251-11	CERAMIC CHIP	100PF	5%	50V				
						L1	1-428-222-11	COIL, AIR-CORE	
C72	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	L2	1-501-921-11	ANTENNA, FERRITE-ROD (AM)	
C73	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	L3	1-406-545-11	COIL, AIR-CORE	
						L4	1-459-837-11	COIL (WITH CORE)	
						L5	1-406-489-11	COIL (OSC)	
* CF1	1-577-319-11	FILTER, CERAMIC						< LIQUID CRYSTAL DISPLAY >	
CF2	1-579-632-41	FILTER, CERAMIC							
CF3	1-579-632-41	FILTER, CERAMIC				LCD50	1-801-771-11	DISPLAY PANEL, LIQUID CRYSTAL	
								< DIODE >	
CT2	1-141-298-11	CAP, TRIMMER 10PF				LD80	8-719-056-07	LED SLR-342MC-A-47 (US,Canadian,E)	
CT3	1-141-298-11	CAP, TRIMMER 10PF				LD80	8-719-066-39	LED EB3804X-J300K (AEP,IT)	
						LD81	8-719-056-07	LED SLR-342MC-A-47 (US,Canadian,E)	
						LD81	8-719-066-39	LED EB3804X-J300K (AEP,IT)	
						LD82	8-719-056-07	LED SLR-342MC-A-47 (US,Canadian,E)	
D1	8-719-951-05	DIODE KV1560				LD82	8-719-066-39	LED EB3804X-J300K (AEP,IT)	
D4	8-713-100-11	DIODE 1T362							
D5	8-713-100-11	DIODE 1T362							
D50	8-719-911-19	DIODE 1SS119-25							
D51	8-719-914-43	DIODE DAN202K (AEP,IT)							
D53	8-719-911-19	DIODE 1SS119-25				Q2	8-729-102-07	TRANSISTOR 2SC2223-F13	
						Q4	8-729-216-22	TRANSISTOR 2SA1162-G	
						Q5	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
						Q50	8-729-216-22	TRANSISTOR 2SA1162-G	
						Q51	8-729-900-53	TRANSISTOR DTC114EK	

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	
Q52	8-729-120-28	TRANSISTOR	2SC1623-L5L6	S51	1-762-233-11	SWITCH, KEYBOARD (TUNING/TIME SET -)		
Q53	8-729-120-28	TRANSISTOR	2SC1623-L5L6	S52	1-762-233-11	SWITCH, KEYBOARD (TUNING/TIME SET +)		
< RESISTOR >								
R3	1-216-049-11	METAL GLAZE	1K	5%	1/10W	T1	1-404-790-11	TRANSFORMER, IF
R4	1-216-089-00	METAL GLAZE	47K	5%	1/10W	< TRANSFORMER >		
R5	1-216-097-00	METAL GLAZE	100K	5%	1/10W	< VARIABLE RESISTOR >		
R6	1-216-097-00	METAL GLAZE	100K	5%	1/10W	VR1	1-225-441-41	RES, VAR, CARBON 50K (VOL)
R7	1-216-057-00	METAL CHIP	2 2K	5%	1/10W	< VIBRATOR >		
R8	1-216-089-00	METAL GLAZE	47K	5%	1/10W	X50	1-567-769-11	VIBRATOR, CRYSTAL (75kHz)
R9	1-216-041-00	METAL CHIP	470	5%	1/10W	*****		
R10	1-216-129-00	METAL CHIP	2 2M	5%	1/10W	*****		
R12	1-216-069-00	METAL CHIP	6 8K	5%	1/10W	*****		
R13	1-216-017-00	METAL GLAZE	47	5%	1/10W	*****		
R14	1-216-057-00	METAL CHIP	2 2K	5%	1/10W	MISCELLANEOUS		
R15	1-216-041-00	METAL CHIP	470	5%	1/10W	*****		
R16	1-216-073-00	METAL CHIP	10K	5%	1/10W	SP1	1-503-616-11	SPEAKER
R50	1-216-073-00	METAL CHIP	10K	5%	1/10W	△T80	1-468-231-11	POWER UNIT (US,Canadian)
R51	1-216-097-00	METAL GLAZE	100K	5%	1/10W	△T80	1-468-232-11	POWER UNIT (AEP,E,IT)
R52	1-216-073-00	METAL CHIP	10K	5%	1/10W	*****		
R53	1-216-073-00	METAL CHIP	10K	5%	1/10W	*****		
R54	1-216-001-00	METAL CHIP	10	5%	1/10W	ACCESSORIES & PACKING MATERIALS		
R55	1-216-113-00	METAL CHIP	470K	5%	1/10W	*****		
R56	1-216-113-00	METAL CHIP	470K	5%	1/10W	*****		
R58	1-216-097-00	METAL GLAZE	100K	5%	1/10W	3-860-216-11	MANUAL, INSTRUCTION (ENGLISH,GERMAN, SPANISH,DUTCH,PORTUGUESE) (AEP,E)	
R60	1-216-097-00	METAL GLAZE	100K	5%	1/10W	3-860-216-21	MANUAL, INSTRUCTION (ENGLISH) (US)	
R61	1-216-073-00	METAL CHIP	10K	5%	1/10W	3-860-216-31	MANUAL, INSTRUCTION (ENGLISH,FRENCH, GERMAN,DUTCH,ITALIAN) (Canadian,IT)	
R62	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	*****		
R63	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	*****		
R64	1-216-065-00	METAL CHIP	4 7K	5%	1/10W	*****		
R65	1-216-065-00	METAL CHIP	4 7K	5%	1/10W	*****		
R66	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	*****		
R67	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	*****		
R68	1-216-017-00	METAL GLAZE	47	5%	1/10W (AEP,IT)	*****		
R68	1-216-021-00	METAL CHIP	68	5%	1/10W (US,Canadian,E)	*****		
R69	1-216-017-00	METAL GLAZE	47	5%	1/10W (AEP,IT)	*****		
R69	1-216-033-00	METAL CHIP	220	5%	1/10W (US,Canadian,E)	*****		
R70	1-216-017-00	METAL GLAZE	47	5%	1/10W (AEP,IT)	*****		
R70	1-216-033-00	METAL CHIP	220	5%	1/10W (US,Canadian,E)	*****		
R71	1-216-017-00	METAL GLAZE	47	5%	1/10W (AEP,IT)	*****		
R71	1-216-033-00	METAL CHIP	220	5%	1/10W (US,Canadian,E)	*****		
R72	1-216-085-00	METAL CHIP	33K	5%	1/10W	*****		
< SWITCH >								
S1	1-571-850-91	SWITCH, SLIDE (BRIGHT)				The components identified by mark △ or dotted line with mark △ are critical for safety	Les composants identifiés par une marque △ sont critiques pour la sécurité	
S50	1-762-233-11	SWITCH, KEYBOARD (ENTER/CLOCK)				Replace only with part number specified.	Ne les remplacer que par une pièce portant le numéro spécifié.	

Sony Corporation

Personal & Mobile Communication Company

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