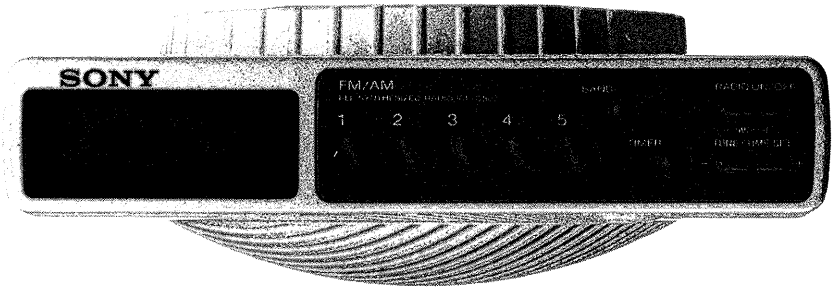
ICF-C503

SERVICE MANUAL

AEP Model



SPECIFICATIONS

Band	Frequency range	Channel step
FM	87.5–108 MHz	0.05* MHz (fixed)
AM	531–1602 kHz	9 kHz (fixed)

* The frequency display is raised or lowered by a step of 0.1 MHz. (Example: Frequency 88.05 MHz is displayed as "88.0 MHz".)

Intermediate frequency: FM: 10.7 MHz
AM: 450 kHz
Speaker: Approx.7.7cm (3 inches) dia.
Power output: 240 mW (at 10% harmonic distortion)
Power requirements:
220–230 V AC, 50Hz
Dimensions: Approx. 222 × 81 × 229 mm (8 3/4 × 4 1/8 × 9 1/8 inches) (w/h/d) incl. projecting parts and controls
Mass: Approx. 930 g (2 lb 1 oz)
Accessories supplied: Mounting screws (3), Template (1), Bracket (1), Cord clamp (1)

Design and specifications are subject to change without notice.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

FEATURES

- PLL (phase locked loop) synthesized kitchen radio for easy operation
- Memory preset for up to 5 stations on each band
- Count down timer
- Easy mounting bracket
- Self power backup: Even if the power supply is interrupted, the time setting and the memory will be backed up for 1 hour without batteries.

SAFETY-RELATED COMPONENT WARNING!!

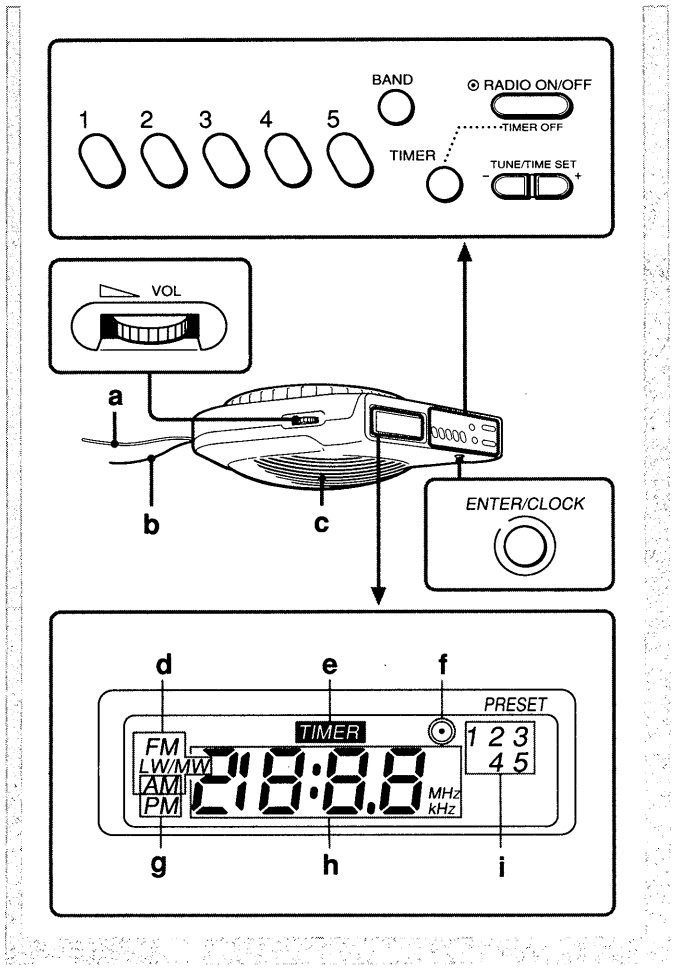
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

FM/AM PLL SYNTHESIZED KITCHEN RADIO

SONY®

SECTION 1
GENERAL

This section is extracted from instruction manual.



English

Location of Control

See illustrations above.

- **a** AC power cord
- **b** FM wire antenna
- **c** Speaker
- **d** Band indication
- **e** Timer indication
- **f** Power indication
- **g** AM/PM indication
- **h** Time/frequency indication
- **i** PRESET number indication

Setting the Clock

1. Plug in the unit.
   The display flashes "AM 12:00" or "0:00".
2. While holding down **ENTER/CLOCK**, press either + or – under **TUNE/TIME SET** till the correct time appears in the display. When you release **ENTER/CLOCK**, the clock begins to operate and ":" frashes.

- 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 rapidly, keep pressing **ENTER/CLOCK** and the + or – button together to advance or return to a time that is within a few minutes of the current time.
  Then press the + or – button to set the time to current time.

Operating the Radio

Manual Tuning

1. Press **RADIO ON/OFF/TIMER OFF** to turn on the radio.
   The band, frequency, power indication and the preset number will appear in the display window. After 5 seconds, the indication becomes the current time.
2. Adjust **VOL** (volume).
3. Press **BAND** to select the band.
   Every push changes the display as follows. (The last frequency selected in each band appears alternately.)

   LW → AM(MW) → FM
   ↑ ↓

   FM/AM = ICF-C503 only
   FM/MW/LW = ICF-C503L only
4. Tune in a station by pressing the + or – button under **TUNE/TIME SET**.
   The FM channel step is set to 0.05 MHz and the AM channel step is set to 9 kHz. (The FM frequency indication changes every 0.1MHz.) The LW channel step is set to 9 kHz.
   A beep sounds at the band edge.

- To turn off the radio, press **RADIO ON/OFF/TIMER OFF.**
- To improve reception
  FM: Extend the FM wire antenna fully to improve reception.
  AM (MW)/LW: Rotate the unit horizontally for optimum reception. A ferrite bar antenna is built into the unit.
- To check the station you are listening to, press the + button lightly. The band and frequency appear for 5 seconds.

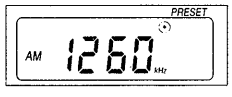
Preset Tuning

Presetting the Station

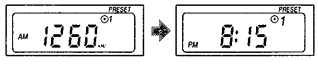
You can preset up to 5 stations in each band with a numbered button, 1 to 5.

Example: To set AM 1260 kHz in preset number 1.

1. Tune in to AM 1260 kHz (See "Manual Tuning").



2. While holding down **ENTER/CLOCK**, press the "1" button. The beeps sound and the station is preset.
   Though the indication becomes the current time after 5 seconds, the preset number remains.



- To change the preset station, install a new station's frequency in the number of which you wish to change the stations. The previous frequency is canceled.

Tuning in a Preset Station

1. Press **RADIO ON/OFF/TIMER OFF** to turn on the radio.
2. Press **BAND** to select the desired band.
3. Press the preset number button of the station.
   The band, frequency, power indication and preset number appear in the display window. After 5 seconds, the indication becomes the current time.
   The preset number remains.

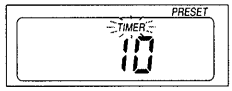
- To turn off the radio, press **RADIO ON/OFF/TIMER OFF.**
- To check the station you are listening to, press the preset number button. The band and frequency appear for 5 seconds.

Setting the Count Down Timer

Use the timer as a reminder. The beep sounds for 10 seconds when the preset time has passed. The beep sounds when the radio is on or off. The timer can be set at 1 minute intervals between 1 and 60.

Example: To set the 15 minutes timer

1. Press **TIMER**. The beep sounds and the display will flash "TIMER".

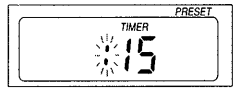


- When you first set the timer, the display shows "10". The next time you set the timer, the display shows the time you set previously.

2. While "TIMER" is flashing, press the + or – button. When "15" appears in the display, release the + or – button and press **TIMER**. The beep sounds twice, ":" flashes, and the timer is set.

Note

- Set the count down timer while "TIMER" is flashing for 10 seconds.



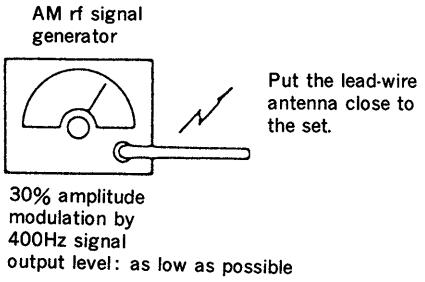
- While the timer is set, the display shows the remaining time. To display the current time, press **TIMER**. Press **TIMER** again, and the remaining time reappears.
- To stop the beep in the middle of beeping, press **RADIO ON/OFF/TIMER OFF.**
- To cancel the timer setting time, while holding down **TIMER**, press **RADIO ON/OFF/TIMER OFF**. When "TIMER" in the display disappears, release the both buttons.
  The timer setting time is canceled and the current time appears in the display.

SECTION 2
ELECTRICAL ADJUSTMENTS

• AM Section

Setting :

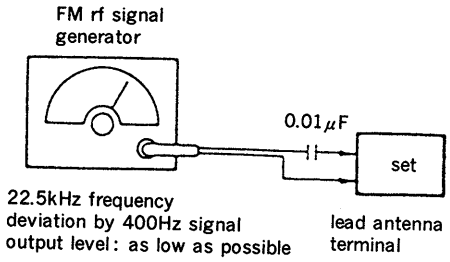
BAND switch : AM

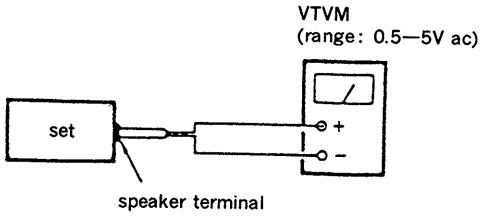


• FM Section

Setting :

BAND switch : FM





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

AM IF ADJUSTMENT
Adjust for a maximum reading on VTVM.
T1
450kHz

AM VCO VOLTAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital voltmeter
L6	1,602kHz	7.5±1.0V (check)
(confirmation)	531kHz	1.4±0.3V (check)

Note : Not use the AM RF signal generator in this adjustment.

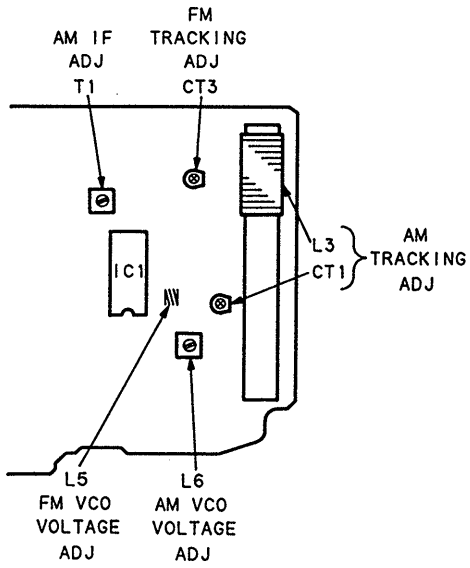
AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L3	CT1
621kHz	1,404kHz

FM VCO VOLTAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital voltmeter
L5	108MHz	9.5±1.0V (check)
(confirmation)	87.5MHz	more than 2.0V (check)

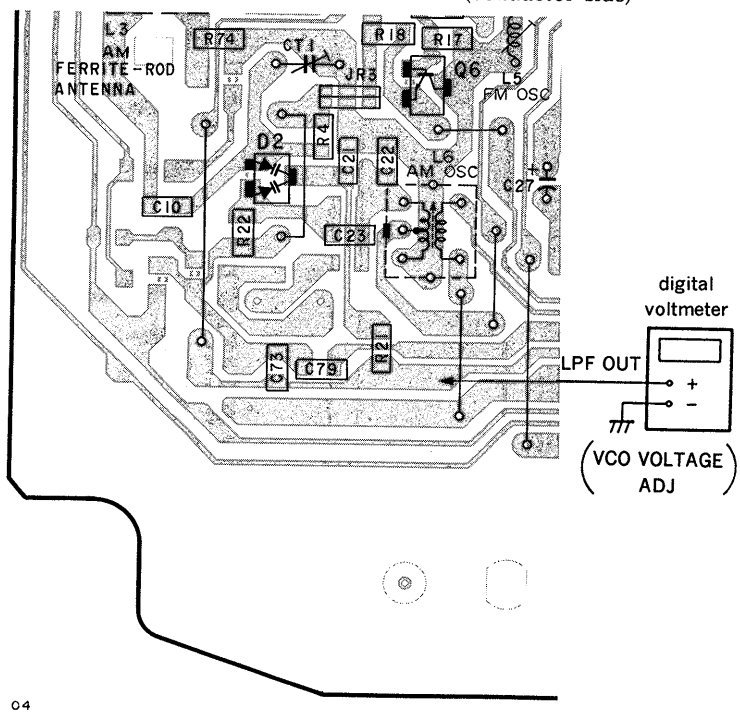
Note : Not use the FM RF signal generator in this adjustment.

FM TRACKING ADJUSTMENT
Adjust for a maximum reading on VTVM.
CT3
108MHz

Adjustment Location : main board (component side)

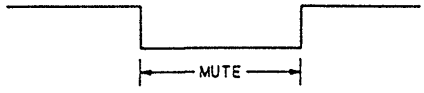


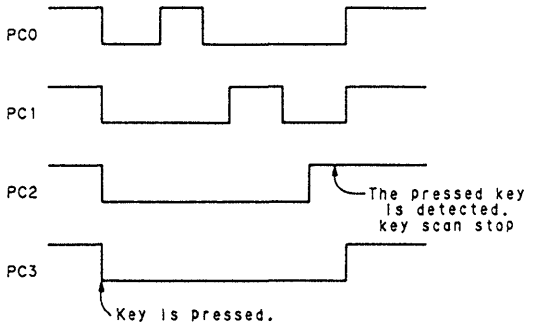
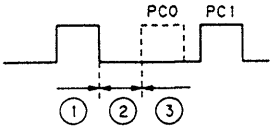
Adjustment Location : main board (conductor side)



SECTION 3
PIN DESCRIPTION

IC2 μPD1724GB-639-1A7

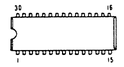
Pin No.	Pin Name	Signal Name	I/O	Description
1-8	LCD10-LCD3	LCD10-LCD3	O	LCD drive segment signal
9	LCD2	LCD2	O	Unused pin
10	LCD1	LCD1	O	Unused pin
11	NC		—	Connected to GND.
12-14	COM3-COM1	COM3-COM1	O	LCD drive common signal
15	VSS3		—	Pin for doubler circuit capacitor connection to develop LCD drive voltage
16	CAP2			
17	CAP1			
18	VSS2			
19	VDP	$\overline{\text{MUTE}}$	O	Audio signal mute. Active: Low. LOW when MUTE ON. 
20	CGP	BEEP	O	Activates buzzer. (1 kHz)
21	NC		—	
22	VDD		—	5V power supply input terminal
23	VCOH	TV VCO	I	Unused pin
24	VCOM	FM VCO	I	FM VCO input
25	VCOL	AM VCO	I	AM VCO input
26	VSS1		—	GND
27	EO1		O	Unused pin
28	EO2		O	PLL error output pin
29	CE	CE	I	Detects power supply line status. Power supply line OFF: Low Power supply line ON: High
30	X0		O	Crystal oscillator connection pin
31	X1		I	
32	VSS4		—	Pin for regulator circuit capacitor connection to attain stable drive voltage of the oscillator
33	PA3	ALARM OUT	—	Connected to +5V.
34	PA2	WEATHER	O	Unused pin
35	PA1	TVL. LW	O	Unused pin
36	PA0	AM	O	BAND output pin. Low: FM, High: AM
37	PB3	CST OUT	—	Unused pin
38	PB2	POWER OUT	O	Unused pin
39	PB1	INT OUT	O	Connected to +5V.
40	PB0	TVH. WEATHER	O	Unused pin

Pin No.	Pin Name	Signal Name	I/O	Description
41-44	PC3-PC0	KEY SOURCE	O	Conducts Key Scan. Timing chart (Eg.) When the PC3 line key is pressed. 
45	K3	KEY RETURN	I	Unused pin
46-48	K2-K0	KEY RETURN	I	Key Return input Key Scan ① Set PC0, PC1, PC2 and PC3 to "High". ② When noe of the 15 keys is pressed, PC0-PC3 will be set to "Low". ③ Each port is set to "High" (Key scan) in the following order PC0 → PC1 → PC2 → PC3 to determine the pressed key. K0-K3 input condition The figure in the right indicates that the key following PC1 is pressed.  * When the initial key is pressed and held down while the next key is pressed, the second key input will not be accepted until the initial key is released (for +, − keys only). Release the initial key and press the next key so that the second key input will be accepted.
49	NC		—	Connected to +5V.
50	NC		—	Connected to GND.
51-56	LCD16-LCD11	LCD16-LCD11	O	LCD drive segment signal

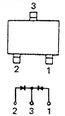
SECTION 4
DIAGRAMS

4-1. SEMICONDUCTOR LEAD LAYOUTS

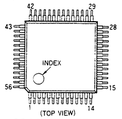
CXA1019S



KV1560
MA152WK

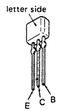


μPD1724GB-639-1A7

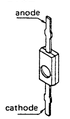


1SS119

2SA1175-HFE
2SC2785-HFE

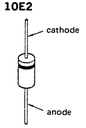


1T32

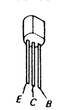


2SC1623-L5L6
2SC2223-F13

10E2



2SC2001L-K



SLH-34MCF07

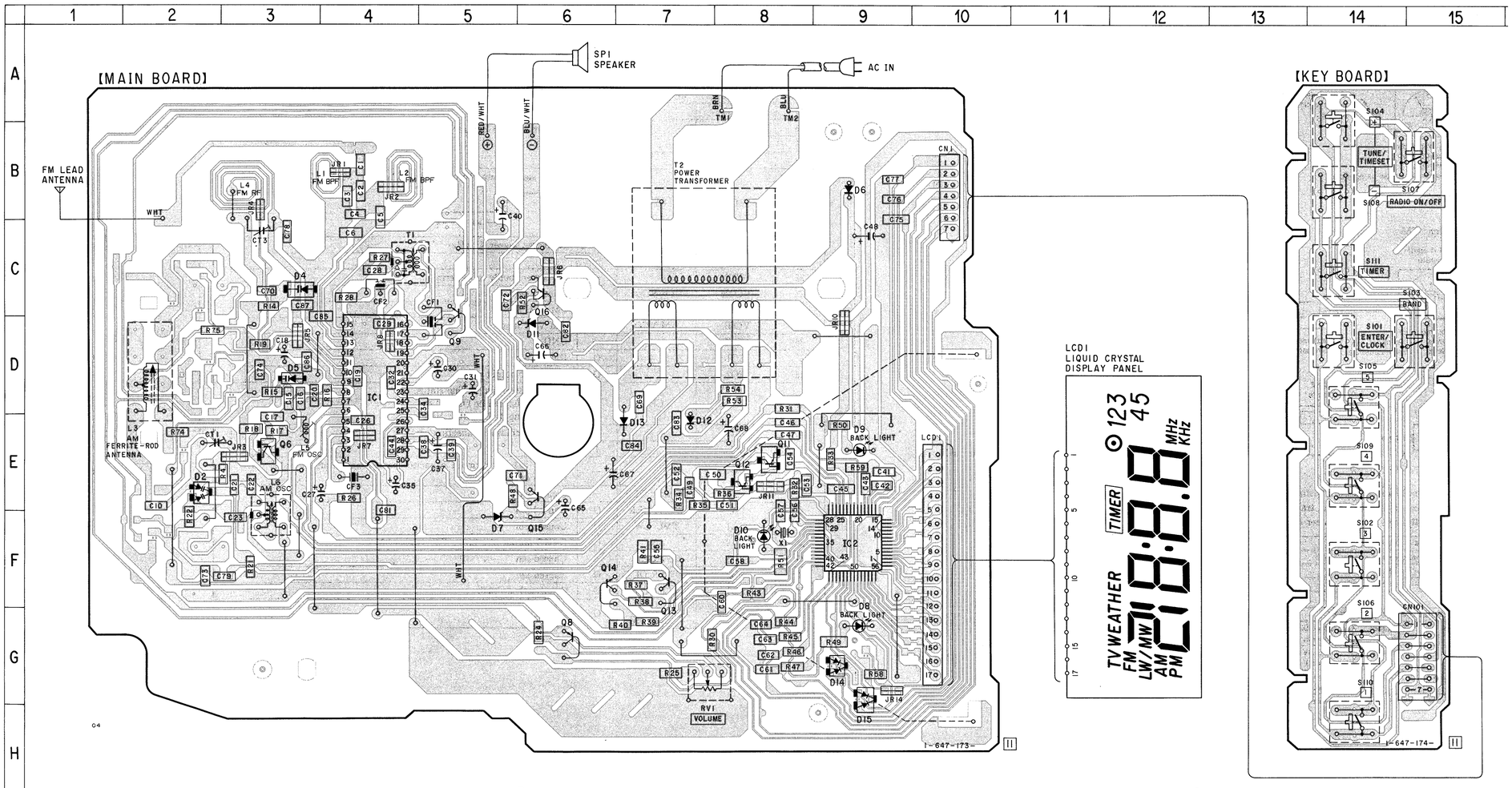
DTZ4.7A
DTZ5.1C

• Semiconductor Location

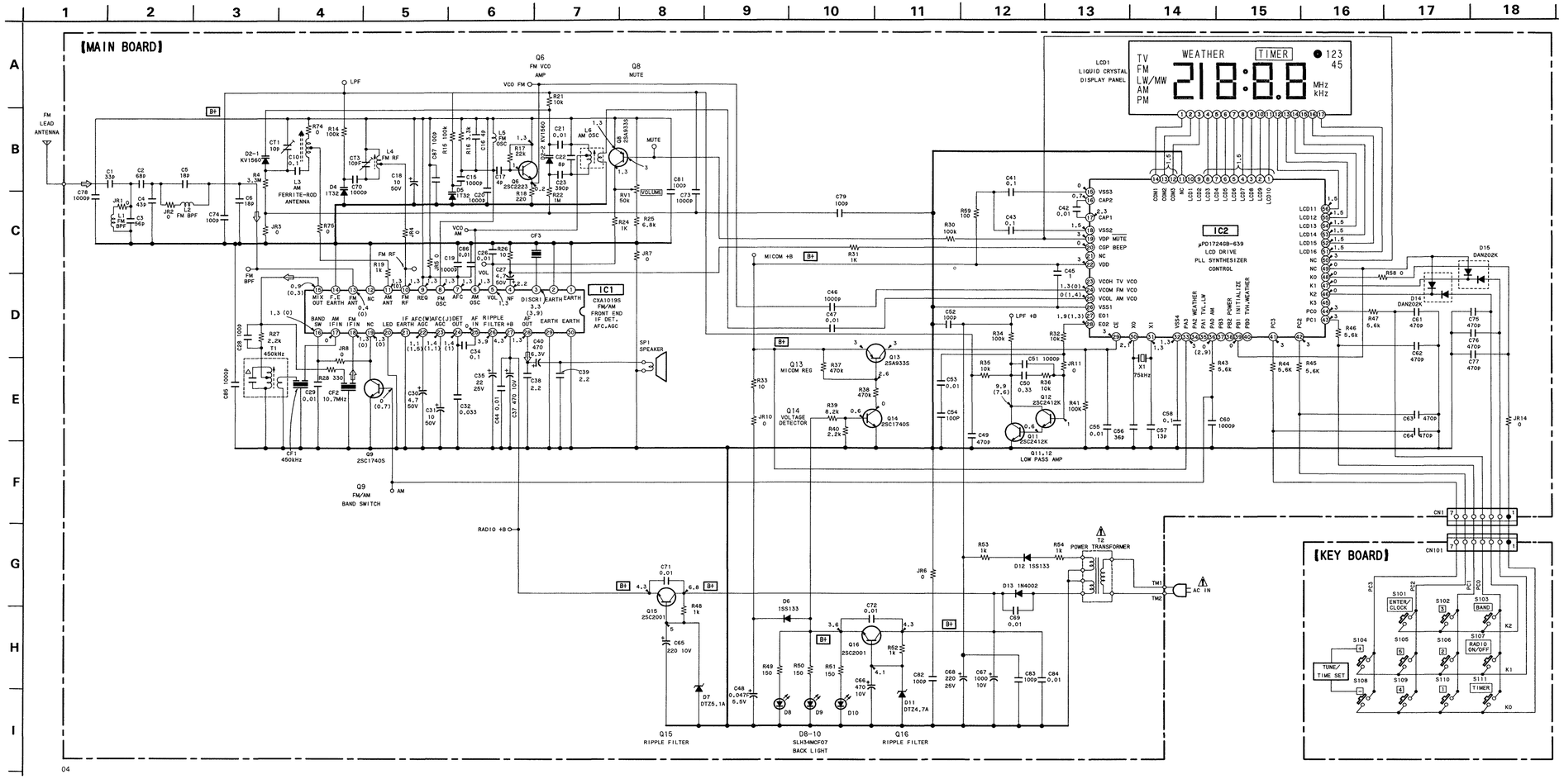
Ref. No.	Location
D2	E-2
D4	C-3
D5	D-3
D6	B-9
D7	F-5
D8	G-9
D9	E-9
D10	F-8
D11	D-6
D12	E-7
D13	E-7
D14	G-9
D15	G-9
IC1	D-4
IC2	F-9
Q6	E-3
Q8	G-6
Q9	D-5
Q11	E-8
Q12	E-8
Q13	F-7
Q14	F-6
Q15	E-6
Q16	C-6

Note:
- ○—— : parts extracted from the component side.
- ⊡ indicates side identified with part number.

4-2. PRINTED WIRING BOARDS

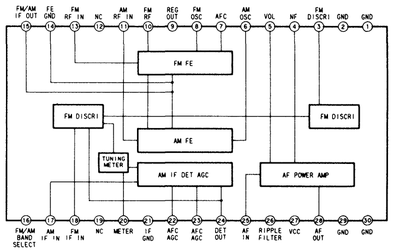


4-3. SCHEMATIC DIAGRAM



• IC Block Diagram

IC1 CXA1019S



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.

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

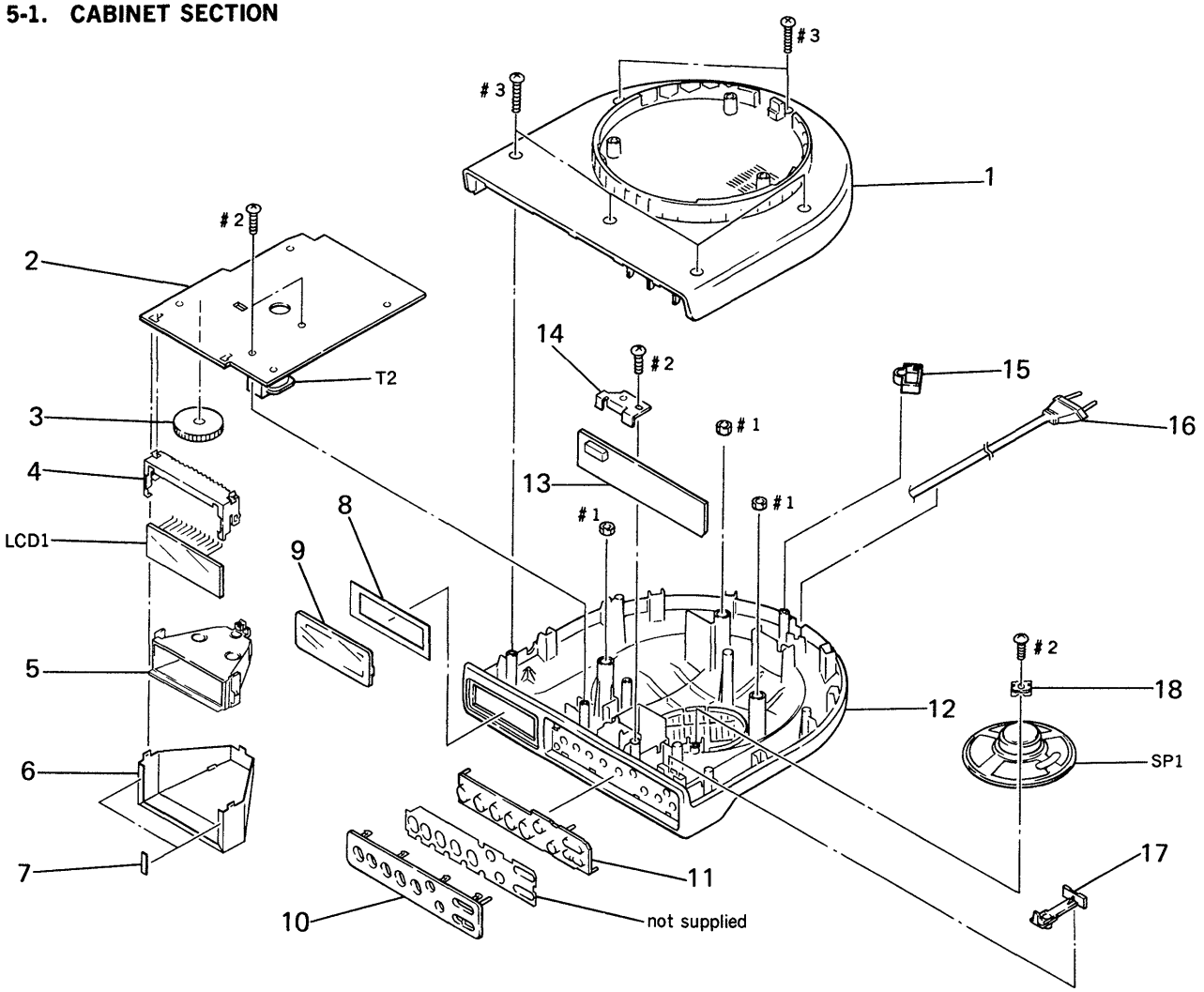
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
  ( ): AM
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

SECTION 5
EXPLODED VIEW

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -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
- Hardware (# mark) list is given in the last of this parts list.

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

5-1. CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	3-385-696-11	CABINET (UPPER)	
* 2	A-3679-495-A	MAIN BOARD, COMPLETE	
3	3-368-840-11	KNOB (VOLUME)	
4	3-385-689-01	HOLDER (LCD)	
5	3-385-690-01	FRAME, REFLECTION	
* 6	3-377-638-11	CASE (LCD), SHIELD	
7	9-911-839-XX	CUSHION, LOCK PLATE	
8	3-385-700-01	SHEET, ADHESIVE	
9	3-385-694-01	PLATE, TRANSPARENT	
10	3-385-693-11	PANEL	
11	3-385-692-11	BUTTON (MAIN)	

Ref. No.	Part No.	Description	Remark
12	3-385-695-01	CABINET (LOWER)	
* 13	1-647-174-11	KEY BOARD	
14	3-385-698-01	HOLDER (PCB)	
* 15	3-368-845-01	STOPPER, CORD	
⚠16	1-551-958-21	CORD, POWER	
17	3-385-691-01	BUTTON (ENTER)	
18	3-903-217-01	CLAW, SPEAKER	
LCD1	1-810-029-11	DISPLAY PANEL, LIQUID CRYSTAL	
SP1	1-504-262-11	SPEAKER (7.7CM)	
⚠T2	1-423-520-11	TRANSFORMER, POWER	

○

SECTION 6
ELECTRICAL PARTS LIST

KEY MAIN

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
- 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..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

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

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

- Abbreviations
  G :German model
  IT:Italian model

Ref. No.	Part No.	Description			Remark
*	1-647-174-11	KEY BOARD			
		*********			
		< CONNECTOR >			
* CN101	1-695-228-11	PIN, CONNECTOR (PC BOARD) 7P			
		< SWITCH >			
S101	1-554-937-11	SWITCH, KEY BOARD (ENTER/CLOCK)			
S102	1-554-937-11	SWITCH, KEY BOARD (3)			
S103	1-554-937-11	SWITCH, KEY BOARD (BAND)			
S104	1-554-937-11	SWITCH, KEY BOARD (TUNE/TIME SET +)			
S105	1-554-937-11	SWITCH, KEY BOARD (5)			
S106	1-554-937-11	SWITCH, KEY BOARD (2)			
S107	1-554-937-11	SWITCH, KEY BOARD (RADIO ON/OFF)			
S108	1-554-937-11	SWITCH, KEY BOARD (TUNE/TIME SET -)			
S109	1-554-937-11	SWITCH, KEY BOARD (4)			
S110	1-554-937-11	SWITCH, KEY BOARD (1)			
S111	1-554-937-11	SWITCH, KEY BOARD (TIMER)			
**********					
*	A-3679-495-A	MAIN BOARD, COMPLETE			
		**********			
*	3-377-638-11	CASE (LCD), SHIELD			
	3-385-689-01	HOLDER (LCD)			
	3-385-690-01	FRAME, REFLECTION			
	9-911-839-XX	CUSHION, LOCK PLATE			
		< CAPACITOR >			
C1	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C2	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C3	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
C4	1-163-108-00	CERAMIC CHIP	43PF	5%	50V
C5	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C6	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C10	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C15	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C16	1-163-087-00	CERAMIC CHIP	4PF		50V
C17	1-163-087-00	CERAMIC CHIP	4PF		50V
C18	1-124-907-11	ELECT	10uF	20%	50V
C19	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C20	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C21	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C22	1-163-091-00	CERAMIC CHIP	8PF		50V
C23	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C26	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C27	1-124-927-11	ELECT	4.7uF	20%	100V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C29	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C30	1-124-927-11	ELECT	4.7uF	20%	100V
C31	1-124-907-11	ELECT	10uF	20%	50V
C32	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C34	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C35	1-126-233-11	ELECT	22uF	20%	50V
C37	1-124-472-11	ELECT	470uF	20%	10V
C38	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C39	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C40	1-124-472-11	ELECT	470uF	20%	10V
C41	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C42	1-164-232-11	CERAMIC CHIP	0.01uF	10%	100V
C43	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C44	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C45	1-162-638-11	CERAMIC CHIP	1uF		16V
C46	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C47	1-164-232-11	CERAMIC CHIP	0.01uF	10%	100V
C48	1-125-733-31	CAP, DOUBLE LAYER	0.047F		4V
C49	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C50	1-164-006-11	CERAMIC CHIP	0.33uF	10%	16V
C51	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C52	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C53	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C54	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C55	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C56	1-163-106-00	CERAMIC CHIP	36PF	5%	50V
C57	1-163-096-00	CERAMIC CHIP	13PF	5%	50V
C58	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C60	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C61-64	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C65	1-126-176-11	ELECT	220uF	20%	10V
C66	1-124-472-11	ELECT	470uF	20%	10V
C67	1-124-473-11	ELECT	1000uF	20%	10V
C68	1-124-120-11	ELECT	220uF	20%	25V
C69	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C70	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V

MAIN

Ref. No.	Part No.	Description		Remark
C71	1-164-232-11	CERAMIC CHIP 0.01uF		50V
C72	1-164-232-11	CERAMIC CHIP 0.01uF		50V
C73	1-163-141-00	CERAMIC CHIP 0.001uF	5%	50V
C74	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C75	1-163-197-00	CERAMIC CHIP 470PF	5%	50V
C76	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
C77	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
C78	1-163-141-00	CERAMIC CHIP 0.001uF	5%	50V
C79	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C81-83	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C84	1-164-232-11	CERAMIC CHIP 0.01uF		50V
C85	1-163-141-00	CERAMIC CHIP 0.001uF	5%	50V
C86	1-164-232-11	CERAMIC CHIP 0.01uF		50V
C87	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
		< FILTER >		
CF1	1-577-319-11	FILTER, CERAMIC 450kHz		
CF2	1-579-312-81	FILTER, CERAMIC 10.7MHz		
CF3	1-579-312-81	FILTER, CERAMIC 10.7MHz		
		< CONNECTOR >		
* CN1	1-695-234-11	SOCKET, CONNECTOR (PC BOARD) 7P		
		< TRIMMER >		
CT1	1-141-304-21	CAP, TRIMMER 10PF		
CT3	1-141-304-21	CAP, TRIMMER 10PF		
		< DIODE >		
D2	8-719-951-05	DIODE KV1560		
D4	8-719-949-46	DIODE 1T32		
D5	8-719-949-46	DIODE 1T32		
D6	8-719-911-19	DIODE 1SS119		
D7	8-719-977-00	DIODE DTZ5.1C		
D8-10	8-719-037-81	DIODE SLH-34MCF07		
D11	8-719-976-94	DIODE DTZ4.7A		
D12	8-719-911-19	DIODE 1SS119		
D13	8-719-200-02	DIODE 10E2		
D14	8-719-400-18	DIODE MA152WK		
D15	8-719-400-18	DIODE MA152WK		
		< IC >		
IC1	8-752-035-29	IC CXA1019S		
IC2	8-759-184-34	IC uPD1724GB-639-1A7		

Ref. No.	Part No.	Description			Remark
		< JUMPER RESISTOR >			
JR1	1-216-295-00	METAL CHIP	0	5%	1/10W
JR2	1-216-296-00	METAL CHIP	0	5%	1/8W
JR3	1-216-296-00	METAL CHIP	0	5%	1/8W
JR4	1-216-295-00	METAL CHIP	0	5%	1/10W
JR5	1-216-296-00	METAL CHIP	0	5%	1/8W
JR6	1-216-296-00	METAL CHIP	0	5%	1/8W
JR7	1-216-295-00	METAL CHIP	0	5%	1/10W
JR8	1-216-295-00	METAL CHIP	0	5%	1/10W
JR10	1-216-296-00	METAL CHIP	0	5%	1/8W
JR11	1-216-296-00	METAL CHIP	0	5%	1/8W
JR14	1-216-295-00	METAL CHIP	0	5%	1/10W
		< COIL >			
L3	1-402-616-11	ANTENNA, FERRITE-ROD (AM)			
L5	1-406-545-11	COIL, AIR-CORE			
L6	1-406-485-11	COIL (OSC)			
		< LIQUID CRYSTAL DISPLAY >			
LCD1	1-810-029-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< TRANSISTOR >			
Q6	8-729-102-07	TRANSISTOR 2SC2223-F13			
Q8	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q9	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q11	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q12	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q13	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q14	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q15	8-729-011-92	TRANSISTOR 2SC2001-K1K2			
Q16	8-729-011-92	TRANSISTOR 2SC2001-K1K2			
		< RESISTOR >			
R4	1-216-133-00	METAL CHIP	3.3M	5%	1/10W
R14	1-216-097-00	METAL CHIP	100K	5%	1/10W
R15	1-216-097-00	METAL CHIP	100K	5%	1/10W
R16	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R17	1-216-081-00	METAL CHIP	22K	5%	1/10W
R18	1-216-033-00	METAL CHIP	220	5%	1/10W
R19	1-216-049-00	METAL CHIP	1K	5%	1/10W
R21	1-216-073-00	METAL CHIP	10K	5%	1/10W
R22	1-216-121-00	METAL CHIP	1M	5%	1/10W
R24	1-216-049-00	METAL CHIP	1K	5%	1/10W
R25	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R26	1-216-001-00	METAL CHIP	10	5%	1/10W
R27	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R28	1-216-037-00	METAL CHIP	330	5%	1/10W
R30	1-216-097-00	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R31	1-216-049-00	METAL CHIP	1K	5%	1/10W
R32	1-216-073-00	METAL CHIP	10K	5%	1/10W
R33	1-216-001-00	METAL CHIP	10	5%	1/10W
R34	1-216-097-00	METAL CHIP	100K	5%	1/10W
R35	1-216-073-00	METAL CHIP	10K	5%	1/10W
R36	1-216-073-00	METAL CHIP	10K	5%	1/10W
R37	1-216-113-00	METAL CHIP	470K	5%	1/10W
R38	1-216-113-00	METAL CHIP	470K	5%	1/10W
R39	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R40	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R41	1-216-097-00	METAL CHIP	100K	5%	1/10W
R43-47					
	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R48	1-216-049-00	METAL CHIP	1K	5%	1/10W
R49	1-216-178-00	METAL GLAZE	150	5%	1/8W
R50	1-216-029-00	METAL CHIP	150	5%	1/10W
R51	1-216-178-00	METAL GLAZE	150	5%	1/8W
R52-54					
	1-216-049-00	METAL CHIP	1K	5%	1/10W
R58	1-216-295-00	METAL CHIP	0	5%	1/10W
R59	1-216-025-00	METAL CHIP	100	5%	1/10W
R74	1-216-295-00	METAL CHIP	0	5%	1/10W
R75	1-216-295-00	METAL CHIP	0	5%	1/10W
		< VARIABLE RESISTOR >			
RV1	1-241-542-11	RES, VAR, CARBON 50K (VOLUME)			
		< TRANSFORMER >			
T1	1-404-790-11	TRANSFORMER, IF			
⚠T2	1-423-520-11	TRANSFORMER, POWER			
		< TERMINAL >			
* TM1	1-535-771-11	TERMINAL			
* TM2	1-535-771-11	TERMINAL			
		< VIBRATOR >			
X1	1-567-769-11	VIBRATOR, CRYSTAL (75kHz)			
**********					
		MISCELLANEOUS			
		**********			
⚠16	1-551-958-21	CORD, POWER			
SP1	1-504-262-11	SPEAKER (7.7CM)			
**********					

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-501-499-11	COUPLER, ANTENNA (AEP)	
*	3-387-929-01	TEMPLATE	
*	3-388-569-01	INDIVIDUAL CARTON	
	3-756-562-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, GERMAN) (AEP, G)	
	3-756-562-41	MANUAL, INSTRUCTION (PORTUGUESE, DUTCH, SWEDISH, ITALIAN) (AEP, IT)	
*	3-897-241-01	CLAMP, CORD	
	3-902-011-01	SCREW (+B 5X65), FITTING	

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****
HARDWARE LIST
****

#1	7-684-025-04	N 5, TYPE 2
#2	7-685-647-79	SCREW +P 3X10 TYPE2 NON-SLIT
#3	7-685-649-79	SCREW +P 3X14 TYPE2 NON-SLIT

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

9-957-842-31

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