ICF-C218

SERVICE MANUAL

E Model
Australian Model

Ver. 1.1 2007.04

SPECIFICATIONS

Time display:
Model for Australian, Central & South American and Mexico: 12-hour system
Model for other countries/ regions: 24-hour system

Frequency range:

Band	Frequency
FM	87.5 – 108 MHz
AM	530 – 1 710 kHz

Speaker:
Approx. 6.6 cm (2 5/8 inches) dia., 8 Ω

Power output:
150 mW (at 10% harmonic distortion)

Power requirements:
Model for Central & South American and Mexico: 120 V AC, 60 Hz
Model for Australian: 230 V AC, 50 Hz
Model for Thailand: 230 V AC, 50 Hz
Model for other countries/ regions: 230 – 240 V AC, 50 Hz
For power backup: 3 V DC, one CR2032 battery

Dimensions:
Approx. 155 × 64.5 × 150 mm (w/h/d)
(6 1/8 × 2 5/8 × 6 inches) incl. projecting parts and controls

Mass:
Model for Central & South American and Mexico: approx. 462.2g (1 lb 0.3 oz) incl. CR2032 battery
Model for Australian: approx. 498.2g (1 lb 2.1 oz) incl. CR2032 battery
Model for other countries/regions: approx. 470.2g (1 lb 0.6 oz) incl. CR2032 battery

Design and specifications are subject to change without notice.

FM/AM CLOCK RADIO

9-887-637-02
2007D02-1

Sony Corporation
Personal Audio Division
Published by Sony Techno Create Corporation

SONY®

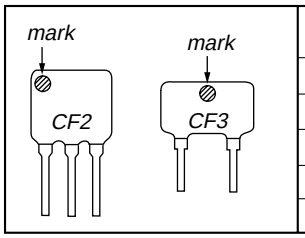
TABLE OF CONTENTS

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.

• HOW TO CHANGE THE CERAMIC FILTER

This model is used two ceramic filters of CF2 and CF3.
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 package as a spare parts.



Mark	Center frequency
red	10.70MHz
blue	10.67MHz
orange	10.73MHz
black	10.64MHz
white	10.76MHz

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.

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

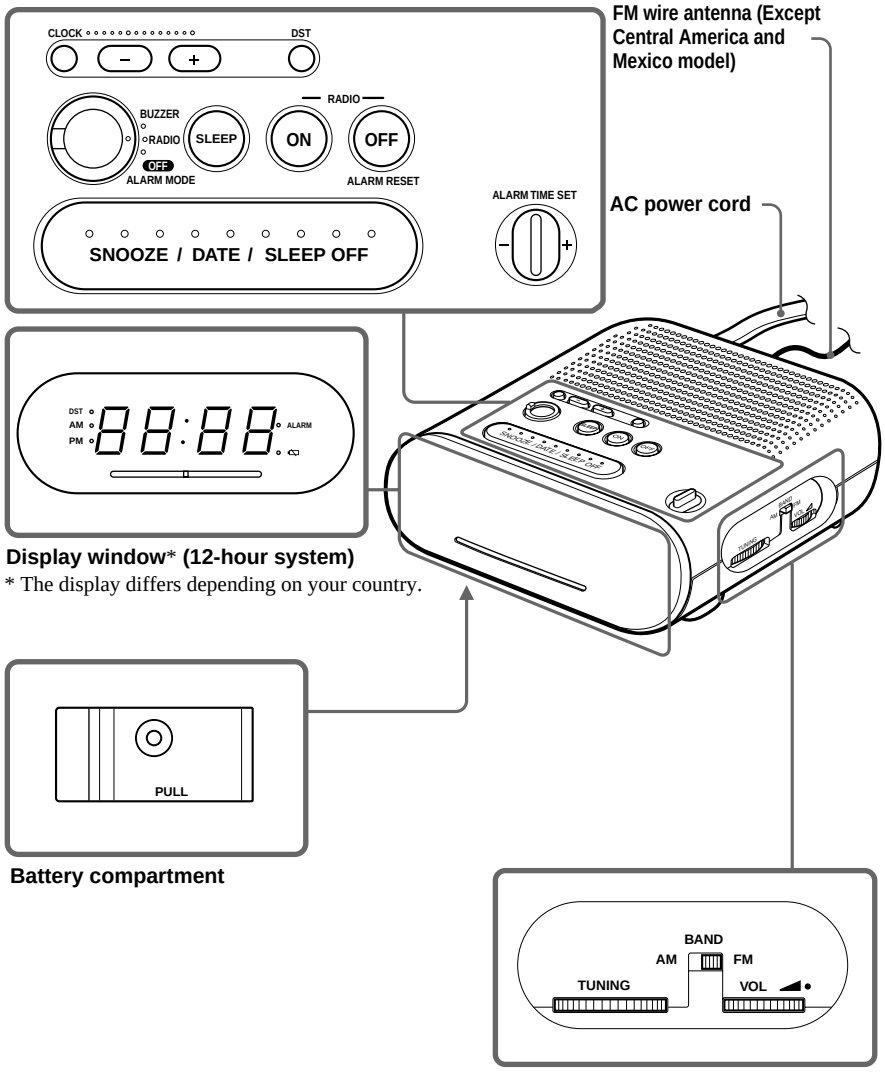
Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SECTION 1
GENERAL

This section is extracted from instruction manual.

LOCATING THE CONTROLS



Setting the clock and date

Set the clock and date according to the following steps.

1. Plug in the unit.
   The display will flash “AM 12:00” or “0:00”.
2. Press CLOCK for more than 2 seconds.
   You will hear a beep and the year will start to flash in the display.
3. Press **+** or **–** until the correct year appears in the display.
4. Press CLOCK.
5. Repeat steps **3** and **4** to set the month, day and time.
   After setting the time, two short beeps sound and the clock starts from 0 seconds.

- Pressing and holding **+** or **–** changes the year, month or day rapidly.
  When setting the current time, time changes rapidly by 1 minute-increments up to 10 minutes, and then by 10 minute-increments.
- The clock system varies depending on the model you own.
  12-hour system: “AM 12:00” = midnight
  24-hour system: “0:00” = midnight
- While setting the clock, you must perform each step within 65 seconds, or the clock setting mode will be cancelled.

To display the year and date

Press SNOOZE/DATE/SLEEP OFF once for the date, and within about 3 seconds press it again for the year.
The display shows the date or year for about 3 seconds and then changes back to the current time.
If you connect the AC plug to AC outlet while this unit is powered from the backup power source, the current date and time appears in the following order. (It is same as when the unit is powered on after the power failure.)
“month and date” (about 1 second) → “year” (about 1 second) → “current time”

To change the display to the daylight saving time (summer time) indication

Press DST.
DST indicator appears in the display and the time indication changes to the daylight saving time (summer time).
To deactivate the daylight saving time (summer time) adjustment, press DST again.

Operating the radio

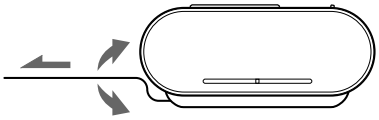
1. Press RADIO ON to turn on the radio.
2. Adjust volume using VOLUME.
3. Select BAND.
4. Tune in to a station using TUNING.

To turn off the radio

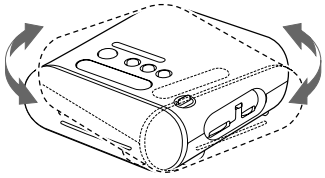
Press RADIO OFF/ALARM RESET.

Improving the reception

FM:
Model for Central America and Mexico:
The AC power cord functions as an FM antenna. Extend the AC power cord fully to increase reception sensitivity.
Model for other countries/ regions:
Extend the FM wire antenna fully to increase reception sensitivity.



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



Do not operate the unit over a steel desk or metal surface, as this may lead to interference of reception.

Setting the alarm

The alarm function can be select from two alarm sounds, RADIO or BUZZER.

Notes
- Before setting the alarm, make sure to set the clock (see “Setting the clock and date”).
- The factory setting alarm time is “PM 12:00” or “12:00”.
- To set the radio alarm, first tune in to a station and adjust the volume (see “Operating the radio”).

To set the alarm time

1. Set ALARM MODE to the desired alarm sound (RADIO or BUZZER).
   The alarm time appears for a few seconds, and then the ALARM indicator lights up in the display. (It does not appear when the switch is set to OFF.)
2. Slide **ALARM TIME SET +** or **–** to set the desired time.
   Each slide of **ALARM TIME SET +** or **–** changes the indication by 1 minute. If you keep sliding **ALARM TIME SET +** or **–**, the alarm time goes forward (or backward) by 1 minute up to 10 minutes, and then by 10 minutes increments.
   While setting the alarm time, the ALARM indicator flashes in the display.

When the alarm time setting operation is complete, the display returns to the clock after a few seconds and the ALARM indicator changes from flashing to fully lit.

- While **ALARM MODE** is set to **RADIO** or **BUZZER**, the alarm time setting can be changed by **ALARM TIME SET**.
  One slide of **ALARM TIME SET** displays the alarm time for about 4 seconds. By adjusting **ALARM TIME SET** while the alarm time appears in the display, the alarm time will be changed.
- The ALARM indicator flashes in the display while:
  – The alarm time appears in the display.
  – The alarm sounds.
  – Snooze function is turned on.
- The alarm time setting cannot be changed if **ALARM MODE** is set to **OFF**. If **ALARM TIME SET** is adjusted, “OFF” appears in the display for about 0.5 seconds.
- **CLOCK** and **DST** are unavailable while the alarm sounds or snooze function is turned on.

To doze for a few more minutes

Press SNOOZE/DATE/SLEEP OFF.
The sound turns off but will automatically come on again after about 10 minutes. Each time you press **SNOOZE/DATE/SLEEP OFF**, the snooze time changes as follows:

10 → 20 → 30 → 40 → 50 → 60

The maximum length of the snooze time is 60 minutes.
The display shows the snooze time for about 4 seconds and returns to show the current time. When you press **SNOOZE/DATE/SLEEP OFF** after the current time appears, the snooze time starts from 10 minutes again.

To stop the Alarm

Press RADIO OFF/ALARM RESET to turn off the alarm.
The alarm will come on again at the same time the next day.
If **RADIO OFF/ALARM RESET** is not pressed, the alarm sounds continuously for about 60 minutes, and then it will be stop automatically.

To deactivate the Alarm

Turn ALARM MODE to OFF.
ALARM indicator disappears from the display.

Note on alarm in the event of a power interruption
If the alarm set time comes in the event of a power interruption or a power interruption occurs while the alarm is sounding, the display will turn off and the alarm will not sound, and the alarm status will be as follows. If power returns within 60 minutes from the alarm set time, the alarm will sound. If the power interruption occurred while the snooze function was operating, the snooze function will continue. If the snooze time had passed when the power interruption occurred, the alarm will sound after power returns.

In this status, if the ⍁ indicator does not light up, **RADIO OFF/ALARM RESET**, **SNOOZE** buttons and **ALARM MODE** functions are available. **SNOOZE** time will be fixed only 10 minutes if the **SNOOZE** button has been pressed.

Setting the sleep timer

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

Press SLEEP.
The radio turns on. You can set the sleep timer to durations of 90, 60, 30, or 15 minutes. Each press changes the display as follows:

OFF → 90 → 60 → 30 → 15 → OFF

Two short beeps sound when the display returns to “90”.
The radio will play for the duration you set, then shut off.

To turn off the radio before the preset time

Press RADIO OFF/ALARM RESET or SNOOZE/DATE/SLEEP OFF.

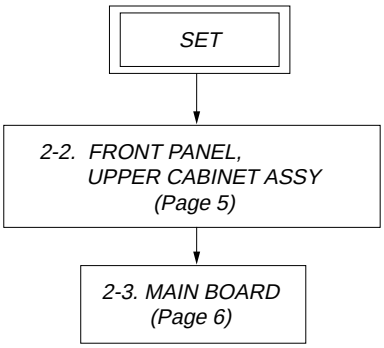
To use both sleep timer and alarm

You can fall asleep to the radio and also be awakened by the radio or buzzer alarm at the preset time.

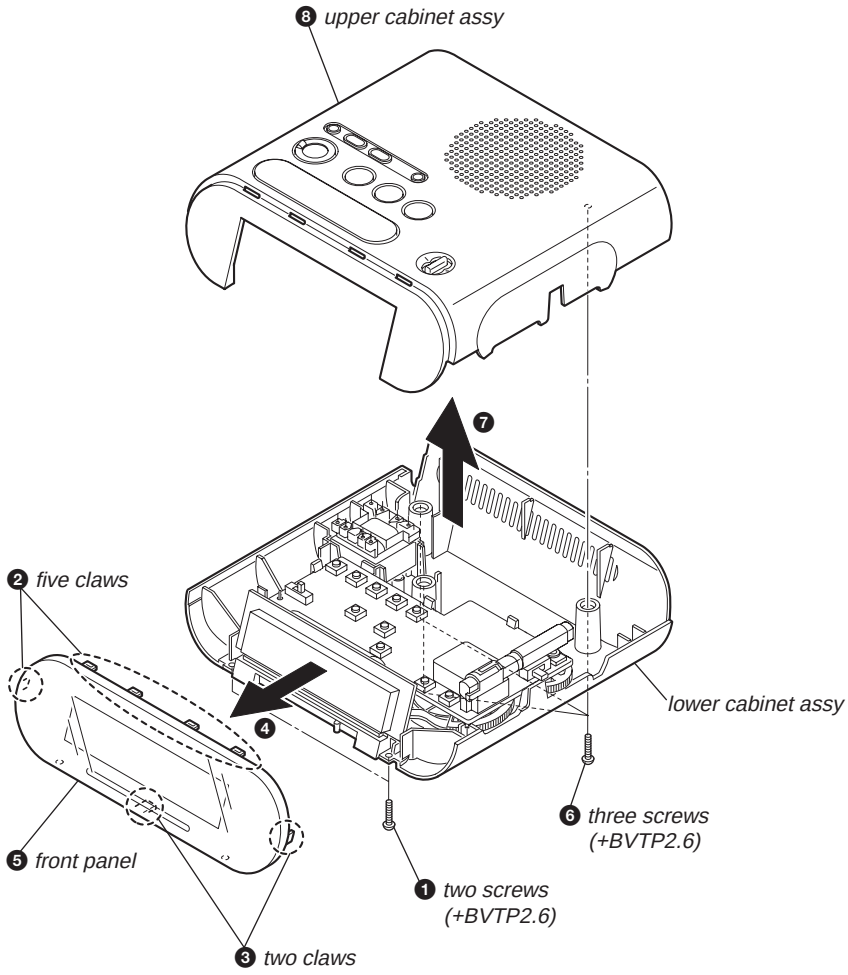
1. Set the alarm. (See “Setting the alarm”.)
2. Set the sleep timer. (See “Setting the sleep timer”.)

SECTION 2
DISASSEMBLY

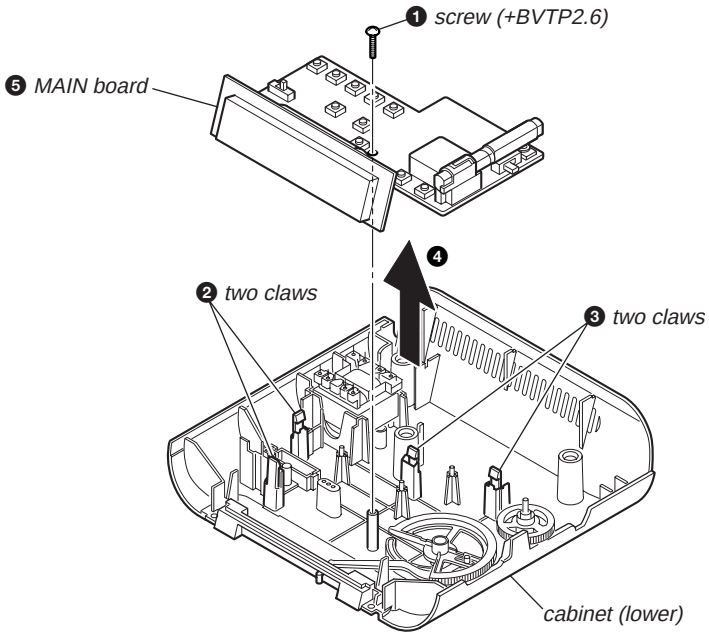
2-1. DISASSEMBLY FLOW



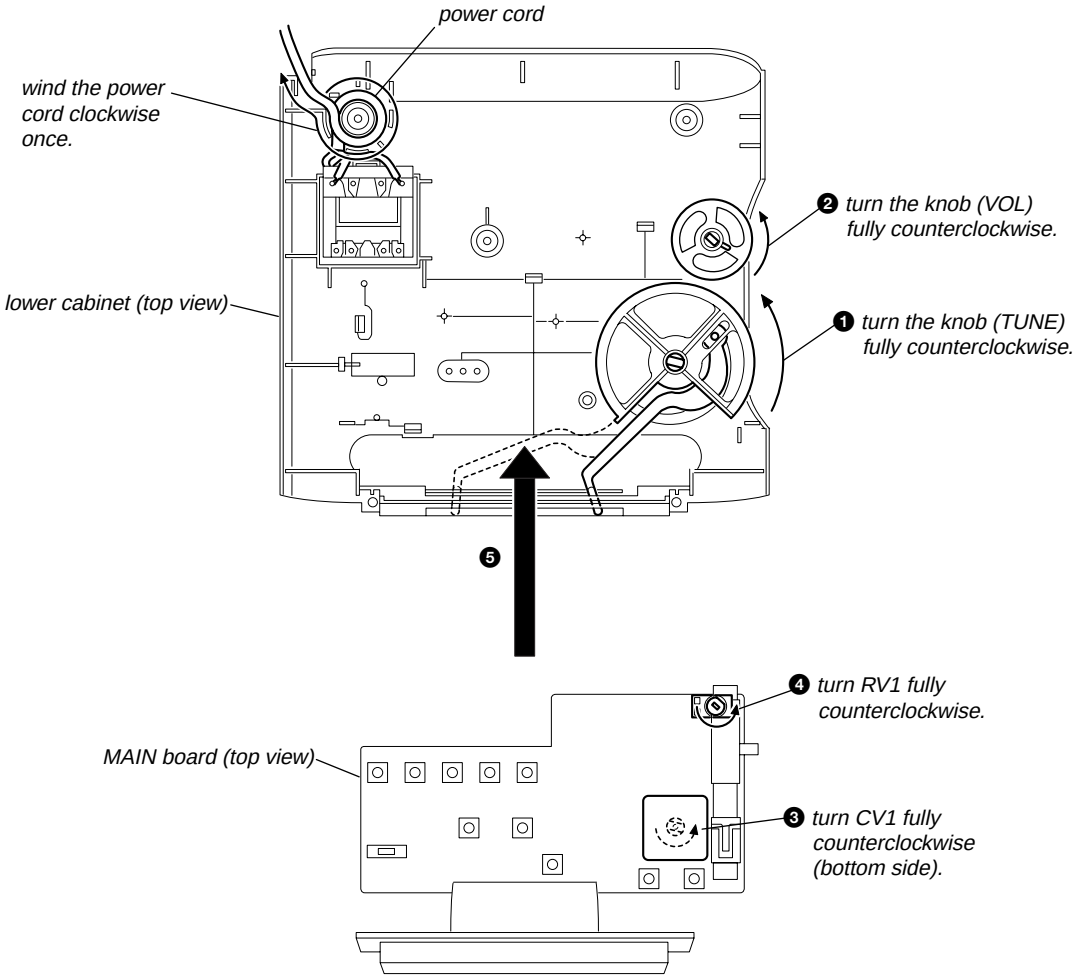
2-2. FRONT PANEL, UPPER CABINET ASSY



2-3. MAIN BOARD



POWER CORD AND POINTER INSTALLATION



SECTION 3
ELECTRICAL ADJUSTMENTS

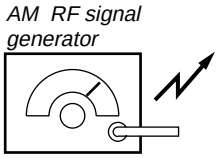
TUNER SECTION

AM Section

0dB=1μV

Procedure :

BAND : AM
VOLUME : 10mW

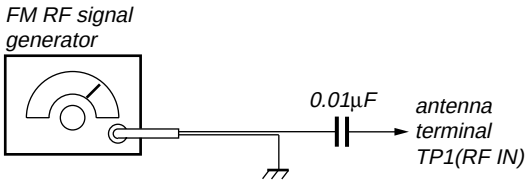


30% amplitude modulation by 400Hz signal.
Output level : as low as possible

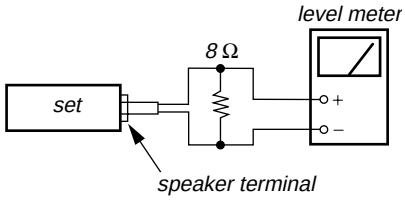
FM Section

Procedure :

BAND : FM
VOLUME : 10mW



22.5kHz frequency deviation by 400Hz signal.
Output level : as low as possible



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

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

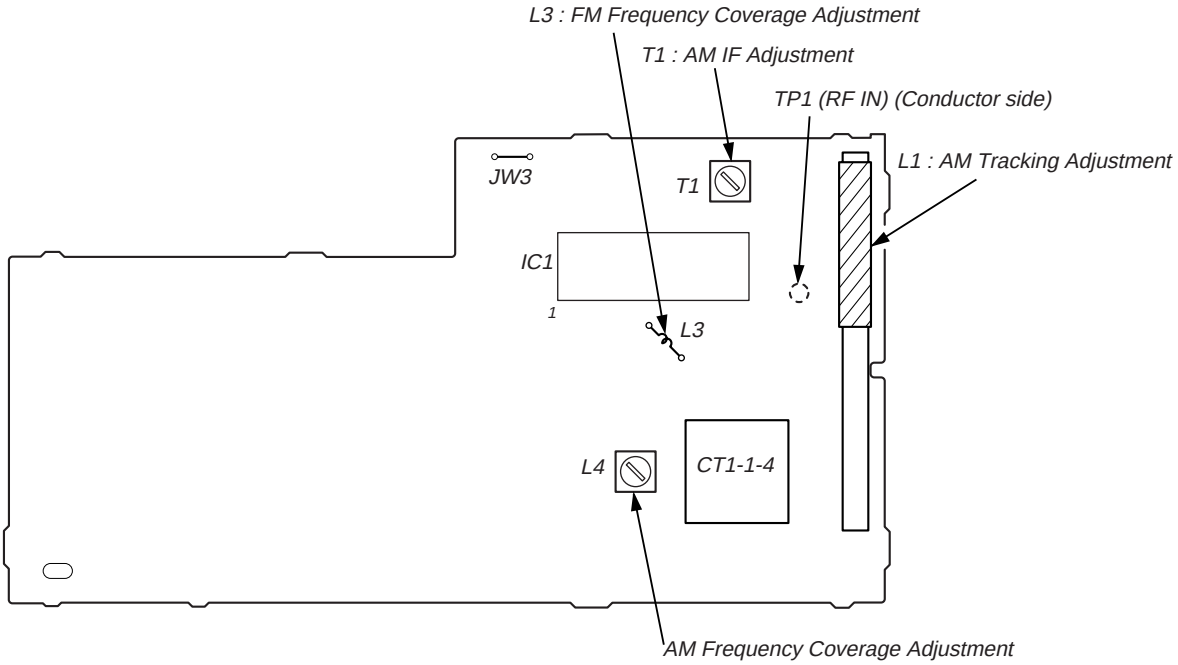
AM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L4	520kHz
CT1-4	1,750kHz

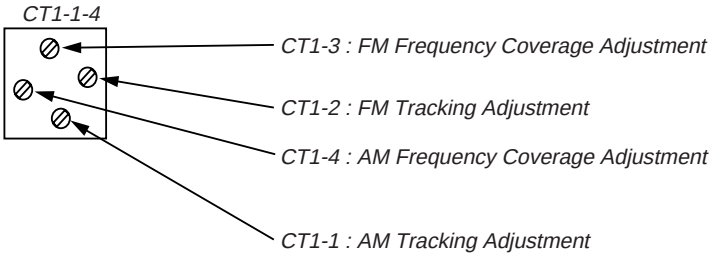
AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L1	620kHz
CT1-1	1,400kHz

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L3	86.5MHz
CT1-3	109.5MHz

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
confirm	86.5MHz
CT1-2	109.5MHz

Adjustment Location: MAIN board (Component side)



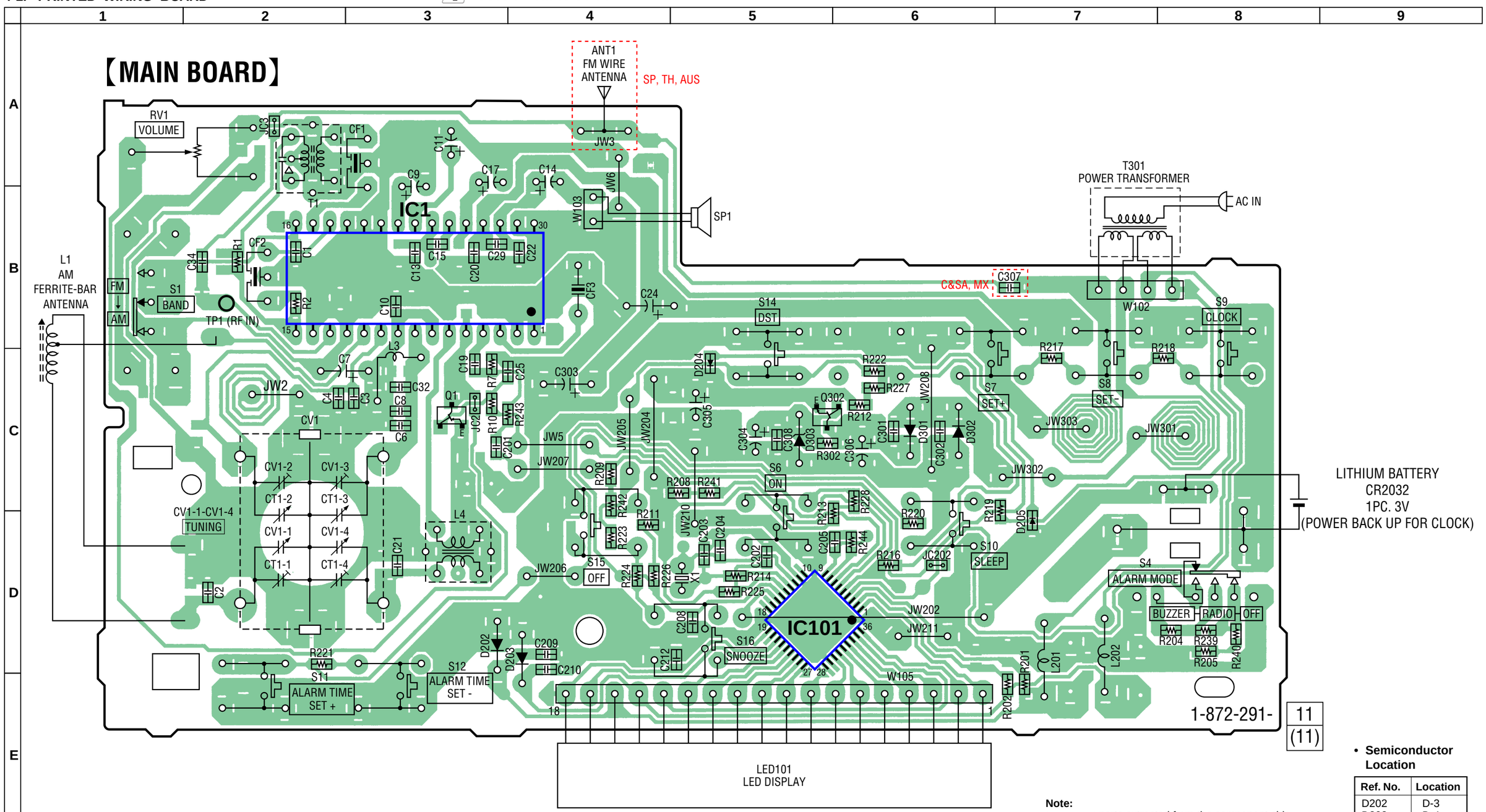


SECTION 4
DIAGRAMS

4-1. PRINTED WIRING BOARD

:Uses unleaded solder.

【MAIN BOARD】



Note:

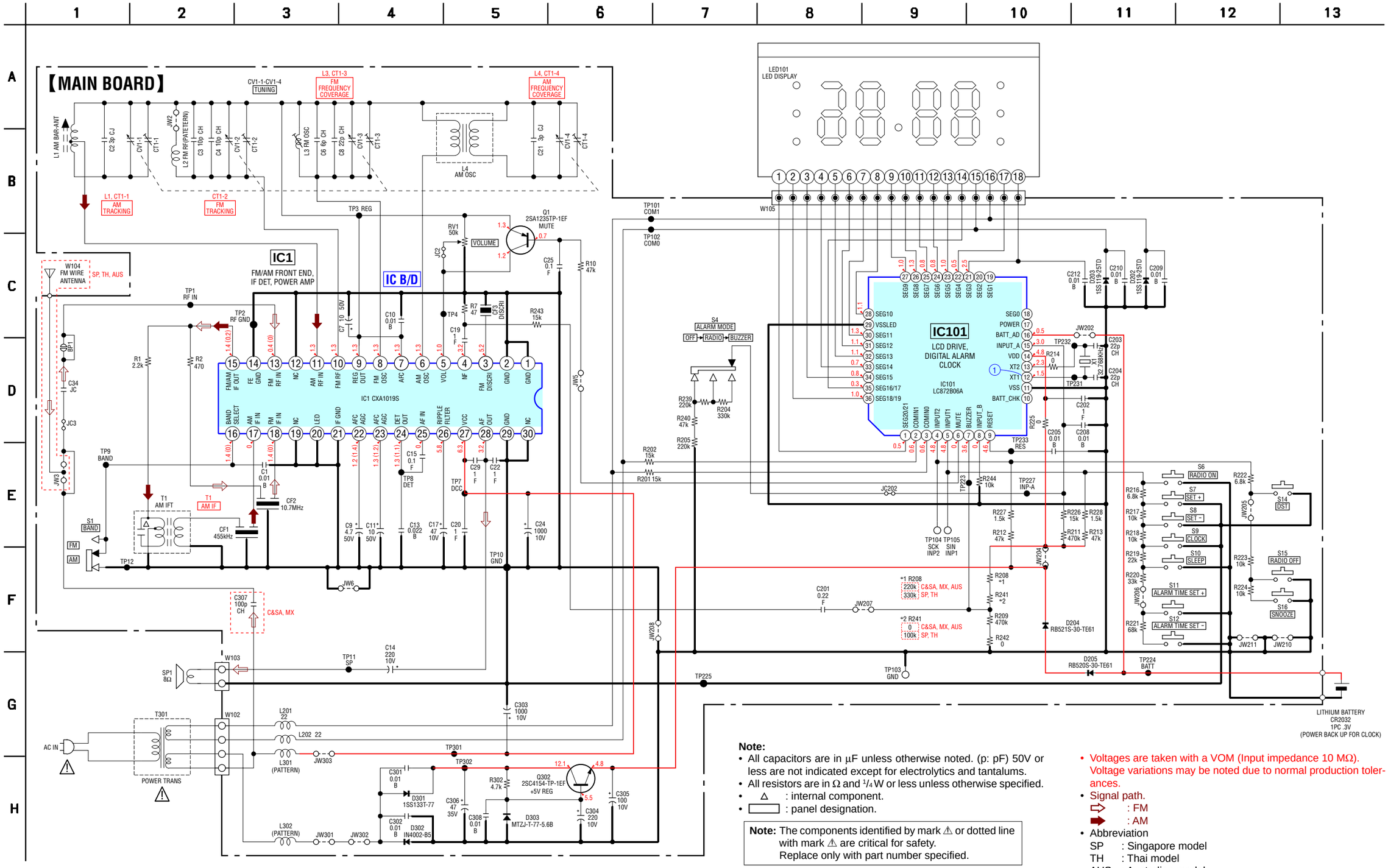
- ——○ : parts extracted from the component side.
- ▬ : Pattern from the side which enables seeing.
- Abbreviation
  - SP : Singapore model
  - TH : Thai model
  - AUS : Australian model
  - MX : mexican model
  - C&SA : Central & South American model

- **Semiconductor Location**

Ref. No.	Location
D202	D-3
D203	D-4
D204	C-5
D205	D-7
D301	C-6
D302	C-6
D303	C-5
IC1	B-3
IC101	D-5
LED101	E-5
Q1	C-3
Q302	C-5

4-2. SCHEMATIC DIAGRAM

• See page 11 for IC Block Diagrams. • See page 11 for Waveforms.



Note:

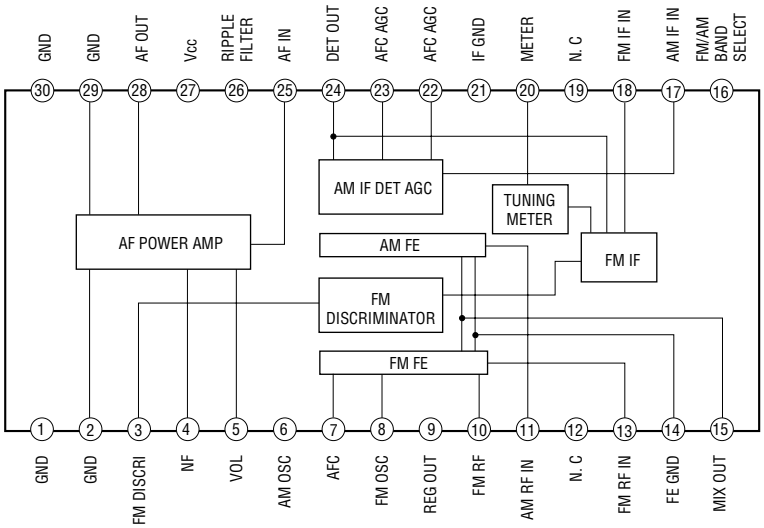
- All capacitors are in µF unless otherwise noted. (p: pF) 50V or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

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

- ▭ : adjustment for repair.
- Voltages are dc with respect to ground under no-signal conditions.
  no mark : FM
  ( ) : AM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ➡ : AM
- Abbreviation
  SP : Singapore model
  TH : Thai model
  AUS : Australian model
  MX : mexican model
  C&SA : Central & South American model

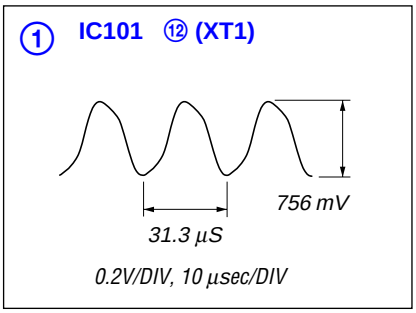
• IC Block Diagram

IC1 CXA1019S



• Waveforms

– MAIN Board –

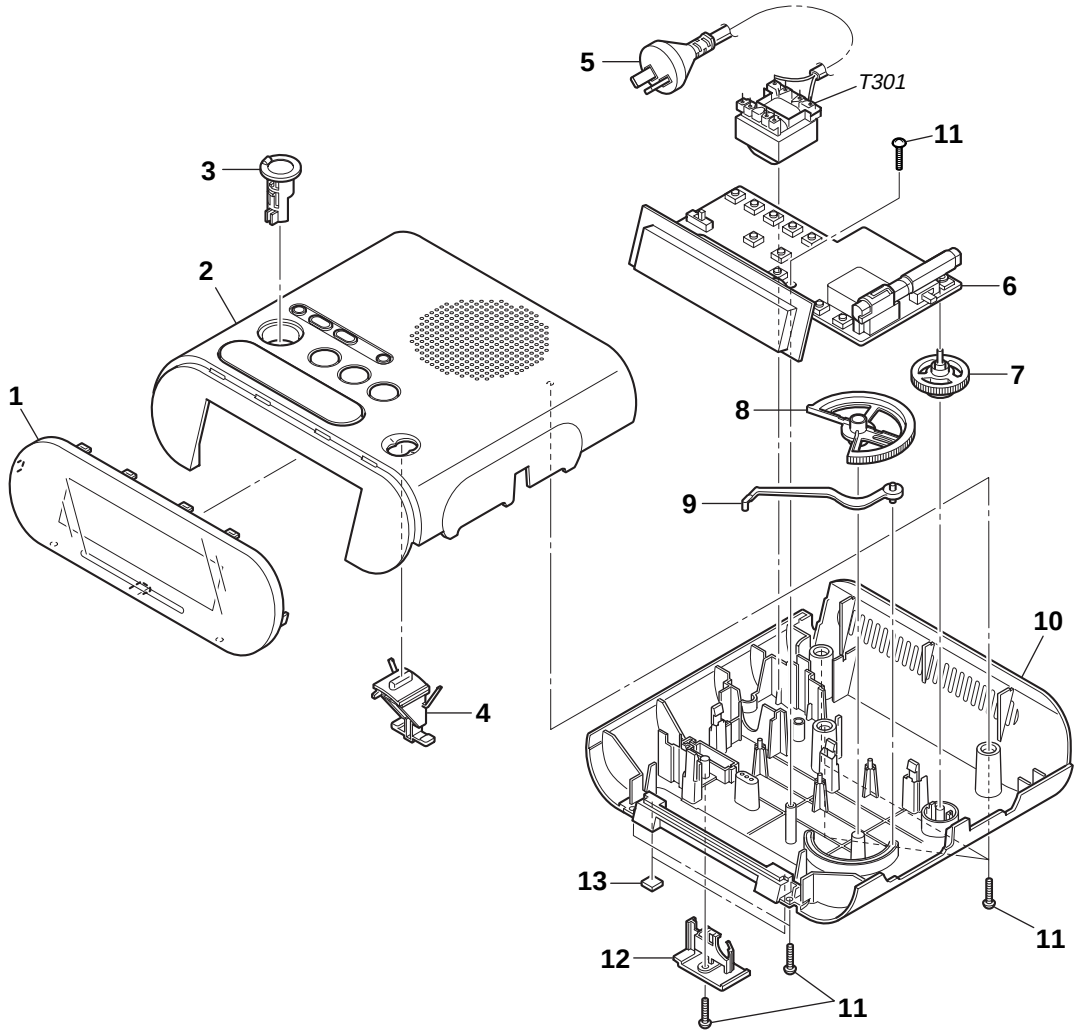


SECTION 5
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences 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.
- Accessories are given in the last of this parts list.
- Abbreviation
  AUS : Australian model
  SP : Singapore model
  TH : Thai model
  MX : Mexican model
  C&SA : Central & South American model

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



Ref. No.	Part No.	Description	Remarks
1	2-894-294-11	PANEL (FRONT) (SP, TH)	
1	2-894-294-31	PANEL (FRONT) (C&SA, MX, AUS)	
2	A-1229-332-A	CABINET (UPPER) ASSY (BLACK) (including SP1)	
2	A-1229-338-A	CABINET (UPPER) ASSY (SILVER) (including SP1)	
2	A-1229-717-A	CABINET (UPPER) ASSY (WHITE) (including SP1)	
3	2-894-297-01	KNOB (JOG) (WHITE)...(WHITE)	
3	2-894-297-11	KNOB (JOG) (BLACK)...(BLACK)	
3	2-894-297-21	KNOB (JOG) (GRAY)...(SILVER)	
4	2-894-296-01	KNOB (ALARM) (WHITE)...(WHITE)	
4	2-894-296-11	KNOB (ALARM) (BLACK)...(BLACK)	
4	2-894-296-21	KNOB (ALARM) (GRAY)...(SILVER)	
⚠*5	1-769-339-82	CORD, POWER (C&SA, MX)	
⚠5	1-831-261-11	CORD, POWER (AUS)	
⚠5	1-777-921-31	POWER-SUPPLY CORD (SP, TH)	
6	A-1229-333-A	MAIN BOARD, COMPLETE (C&SA, MX)	
6	A-1229-711-A	MAIN BOARD, COMPLETE (SP, TH)	
6	A-1229-724-A	MAIN BOARD, COMPLETE (AUS)	
7	2-666-860-11	KNOB (VOL) (GRAY)...(WHITE, SILVER)	

Ref. No.	Part No.	Description	Remarks
7	2-666-860-21	KNOB (VOL) (BLACK)...(BLACK)	
8	2-894-298-01	KNOB (TUNE) (GRAY)...(WHITE, SILVER)	
8	2-894-298-11	KNOB (TUNE) (BLACK)...(BLACK)	
9	2-894-299-01	POINTER	
10	2-319-198-01	CABINET (LOWER) (BLACK) (TH, AUS)	
10	2-894-293-21	CABINET (LOWER) (WHITE) (SP)	
10	2-894-293-51	CABINET (LOWER) (BLACK) (C&SA)	
10	2-894-293-61	CABINET (LOWER) (BLACK) (SP)	
10	2-894-293-81	CABINET (LOWER) (SILVER) (MX)	
10	2-894-293-91	CABINET (LOWER) (WHITE) (TH, AUS)	
11	3-254-140-01	SCREW (B2.6), (+) BV TAPPING	
12	2-894-300-01	HOLDER, BATTERY (WHITE)...(WHITE)	
12	2-894-300-11	HOLDER, BATTERY (BLACK)...(BLACK)	
12	2-894-300-21	HOLDER, BATTERY (GRAY)...(SILVER)	
13	3-246-344-11	FOOT, RUBBER	
⚠T301	1-433-573-31	TRANSFORMER, POWER (C&SA, MX)	
⚠T301	1-433-574-31	TRANSFORMER, POWER (SP, TH, AUS)	

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, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...
- Abbreviation
  AUS : Australian model
  SP : Singapore model
  TH : Thai model
  MX : Mexican model
  C&SA : Central & South American model

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

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

Ref. No.	Part No.	Description			Remarks
	A-1229-333-A	MAIN BOARD, COMPLETE (C&SA, MX)			
	A-1229-711-A	MAIN BOARD, COMPLETE (SP, TH)			
	A-1229-724-A	MAIN BOARD, COMPLETE (AUS)			
		**********			
	2-890-227-01	TERMINAL (–), BATTERY			
	2-890-228-01	TERMINAL (+), BATTERY			
	3-044-220-01	HOLDER (ANT)			
		< CAPACITOR >			
C1	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C2	1-162-908-11	CERAMIC CHIP	3PF	0.25PF	50V
C3	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C4	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C6	1-162-911-11	CERAMIC CHIP	6PF	0.5PF	50V
C7	1-126-964-11	ELECT	10uF	20%	50V
C8	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C9	1-126-963-11	ELECT	4.7uF	20%	50V
C10	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C11	1-126-964-11	ELECT	10uF	20%	50V
C13	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C14	1-126-934-11	ELECT	220uF	20%	16V
C15	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C17	1-126-947-11	ELECT	47uF	20%	35V
C19	1-115-156-11	CERAMIC CHIP	1uF		10V
C20	1-115-156-11	CERAMIC CHIP	1uF		10V
C21	1-162-908-11	CERAMIC CHIP	3PF	0.25PF	50V
C22	1-115-156-11	CERAMIC CHIP	1uF		10V
C24	1-126-926-11	ELECT	1000uF	20%	10V
C25	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C29	1-115-156-11	CERAMIC CHIP	1uF		10V
C34	1-216-864-11	SHORT CHIP	0		
C201	1-165-128-11	CERAMIC CHIP	0.22uF		16V
C202	1-115-156-11	CERAMIC CHIP	1uF		10V
C203	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C204	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C205	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C209	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C212	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C301	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C302	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C303	1-126-926-11	ELECT	1000uF	20%	10V
C304	1-126-934-11	ELECT	220uF	20%	16V
C305	1-104-665-11	ELECT	100uF	20%	25V
C306	1-126-947-11	ELECT	47uF	20%	35V
C307	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (C&SA, MX)
C308	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< FILTER >			
CF1	1-781-790-11	FILTER, AM CERAMIC (455MHz)			
CF2	1-577-324-11	FILTER, CERAMIC (10.7MHz)			
CF3	1-577-324-11	FILTER, CERAMIC			
		< VARIABLE CAPACITOR >			
CV1	1-141-733-11	CAP, VAR (TUNING)			
		< DIODE >			
D202	8-719-911-19	DIODE 1SS119-25			
D203	8-719-911-19	DIODE 1SS119-25			
D204	8-719-071-34	DIODE RB521S-30-TE61			
D205	8-719-069-29	DIODE RB520S-30TE61			
D301	8-719-991-33	DIODE 1SS133T-77			
D302	6-501-582-01	DIODE 1N4002-B5			
D303	8-719-109-89	DIODE RD5.6ESB2			
		< IC >			
IC1	8-752-037-02	IC CXA1019S			
IC101	6-807-350-01	IC LC872B06A-58J1-E			
		< JUMPER RESISTOR >			
JC2	1-216-864-11	SHORT CHIP	0		
JC3	1-216-864-11	SHORT CHIP	0		
JC202	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L1	1-419-532-11	COIL, FERRITE-ROD ANTENNA (MW) (AM TRACKING)			
L3	1-422-131-00	COIL, FM OSCILLATION (FM FREQUENCY COVERAGE)			
L4	1-457-241-11	COIL, OSCILLATION (MW) (AM FREQUENCY COVERAGE)			
L201	1-410-513-11	INDUCTOR	22uH		

Ref. No.	Part No.	Description			Remarks
L202	1-410-513-11	INDUCTOR	22uH		
		< LED >			
LED101	1-802-373-11	ELEMENT, LED INDICATOR (SP, TH)			
LED101	1-802-374-11	ELEMENT, LED INDICATOR (C&SA, MX, AUS)			
		< TRANSISTOR >			
Q1	8-729-600-22	TRANSISTOR	2SA1235-F		
Q302	8-729-620-13	TRANSISTOR	2SC4154TP-1EF		
		< RESISTOR >			
R1	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2	1-216-817-11	METAL CHIP	470	5%	1/10W
R7	1-216-805-11	METAL CHIP	47	5%	1/10W
R10	1-216-841-11	METAL CHIP	47K	5%	1/10W
R201	1-216-835-11	METAL CHIP	15K	5%	1/10W
R202	1-216-835-11	METAL CHIP	15K	5%	1/10W
R204	1-216-851-11	METAL CHIP	330K	5%	1/10W
R205	1-216-849-11	METAL CHIP	220K	5%	1/10W
R208	1-216-849-11	METAL CHIP	220K	5%	1/10W (C&SA, MX, AUS)
R208	1-216-851-11	METAL CHIP	330K	5%	1/10W (SP, TH)
R209	1-216-855-11	METAL CHIP	680K	5%	1/10W
R211	1-216-853-11	METAL CHIP	470K	5%	1/10W
R212	1-216-841-11	METAL CHIP	47K	5%	1/10W
R213	1-216-841-11	METAL CHIP	47K	5%	1/10W
R214	1-216-864-11	SHORT CHIP	0		
R216	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R217	1-216-833-11	METAL CHIP	10K	5%	1/10W
R218	1-216-833-11	METAL CHIP	10K	5%	1/10W
R219	1-216-837-11	METAL CHIP	22K	5%	1/10W
R220	1-216-839-11	METAL CHIP	33K	5%	1/10W
R221	1-216-843-11	METAL CHIP	68K	5%	1/10W
R222	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R223	1-216-833-11	METAL CHIP	10K	5%	1/10W
R224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R225	1-216-864-11	SHORT CHIP	0		
R226	1-216-835-11	METAL CHIP	15K	5%	1/10W
R227	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R228	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R239	1-216-849-11	METAL CHIP	220K	5%	1/10W
R240	1-216-841-11	METAL CHIP	47K	5%	1/10W
R241	1-216-845-11	METAL CHIP	100K	5%	1/10W (SP, TH)
R241	1-216-864-11	SHORT CHIP	0 (C&SA, MX, AUS)		
R242	1-216-864-11	SHORT CHIP	0		
R243	1-216-835-11	METAL CHIP	15K	5%	1/10W
R244	1-216-833-11	METAL CHIP	10K	5%	1/10W
R302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
		< VARIABLE RESISTOR >			
RV1	1-227-623-11	RES, VAR, CARBON	50K (VOLUME)		
		< SWITCH >			
S1	1-771-905-21	SWITCH, SLIDE (BAND)			
S4	1-798-042-11	SWITCH, SLIDE (ALARM MODE)			
S6	1-798-044-11	SWITCH, TACTILE (RADIO ON)			
S7	1-798-044-11	SWITCH, TACTILE (SET +)			
S8	1-798-044-11	SWITCH, TACTILE (SET –)			
S9	1-798-044-11	SWITCH, TACTILE (CLOCK)			
S10	1-798-044-11	SWITCH, TACTILE (SLEEP)			
S11	1-798-044-11	SWITCH, TACTILE (ALARM TIME SET +)			
S12	1-798-044-11	SWITCH, TACTILE (ALARM TIME SET –)			
S14	1-798-044-11	SWITCH, TACTILE (DST)			
S15	1-798-044-11	SWITCH, TACTILE (RADIO OFF)			
S16	1-798-044-11	SWITCH, TACTILE (SNOOZE)			
		< TRANSFORMER >			
T1	1-443-989-11	TRANSFORMER, IF (AM IF)			
		< FLAT CABLE >			
W105	1-833-767-11	CORD, CONNECTION (18 CORE)			
		< VIBRATOR >			
X1	1-760-252-12	VIBRATOR, CRYSTAL (32.768 kHz)			
**********					
		MISCELLANEOUS			
		**********			
2	A-1229-332-A	CABINET (UPPER) ASSY (BLACK) (including SP1)			
2	A-1229-338-A	CABINET (UPPER) ASSY (SILVER) (including SP1)			
2	A-1229-717-A	CABINET (UPPER) ASSY (WHITE) (including SP1)			
⚠*5	1-769-339-82	CORD, POWER (C&SA, MX)			
⚠5	1-831-261-11	CORD, POWER (AUS)			
⚠5	1-777-921-31	POWER-SUPPLY CORD (SP, TH)			
⚠T301	1-433-573-31	TRANSFORMER, POWER (C&SA, MX)			
⚠T301	1-433-574-31	TRANSFORMER, POWER (SP, TH, AUS)			
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		ACCESSORIES			
		**********			
BT1	1-528-174-51	BATTERY, LITHIUM (CR2032 TYPE)			
	2-319-815-31	MANUAL, INSTRUCTION (ENGLISH, SPANISH, PORTUGUESE, SIMPLIFIED CHINESE) (C&SA, MX, SP, TH)			
	2-319-815-51	MANUAL, INSTRUCTION (ENGLISH) (AUS)			

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2007.03	New
1.1	2007.04	Addition of Central & South American model.