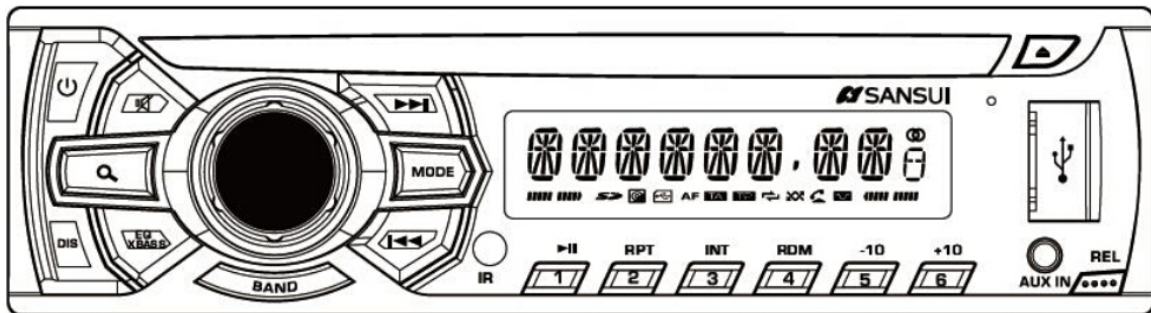




## USER MANUAL

---

**CAR CD/MP3 PLAYER/FM-AM RADIO  
/Bluetooth (For SA-CD102 Only)  
MODEL: SA-CD100/ SA-CD102**



Take the time to read this user manual. Familiarity with the manual will help you to obtain the best performance from your new device. The descriptions and features in this manual only serve as general information and do not represent a guarantee. In order to offer you a product of the highest quality, we reserve the right to make possible improvements or changes without prior notification.

## Copyright Information

©2009 All rights reserved. This document may not in whole or in part be reproduced, stored in a retrieval system, transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, or reduced to any electronic medium or machine-readable form without prior consent, in writing, from [COMPANY].

[PRODUCT] and [BRAND] are registered trademarks of [COMPANY]. The logo's, standards, software, and/or product names mentioned herein are manufacturer and publisher trademarks and are used only for the purpose of identification.

### Disclaimer

The publishers and author assume no responsibility whatsoever for the uses made of this material or for decisions based on its use. Further, [COMPANY] makes no warranties, either expressed or implied, regarding the contents of this product, its completeness, accuracy, merchantability, or fitness for any particular purpose. Neither the publisher nor anyone else who has been involved with the creating, production, or delivery of the material shall be liable for any reason.

All brand and product names used throughout this document are trademarks or registered trademarks of their respective companies. The brand and product names are used in editorial fashion only and for the benefit of such companies.

*Product specifications are subject to change without prior notice*

www.sansui-caraudio.com



**WEEE** (Waste Electrical and Electronic Equipment Directive)

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.


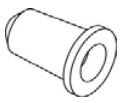
## Safety instructions

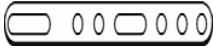
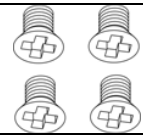


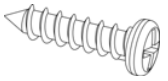



This user manual contains important safety instructions and information for proper use of the device. Please follow the instructions in this manual carefully.

- A** Please keep the device away from places with high temperatures, high humidity or dust.
- B** Do not give your car radio and especially the accessories to children.
- C** Avoid shocks and do not let the device fall, as that may cause damage to the device.
- D** We are not responsible for data losses that are caused by damage to the product, repairs or any other reasons.
- E** Do not disassemble the device. Doing so will void your warranty claims.
- F** Do not use alcohol, thinners or petrol to clean the display. Use only a dry cloth.

## Accessories

Package contains the following accessories for installation and operation the unit.

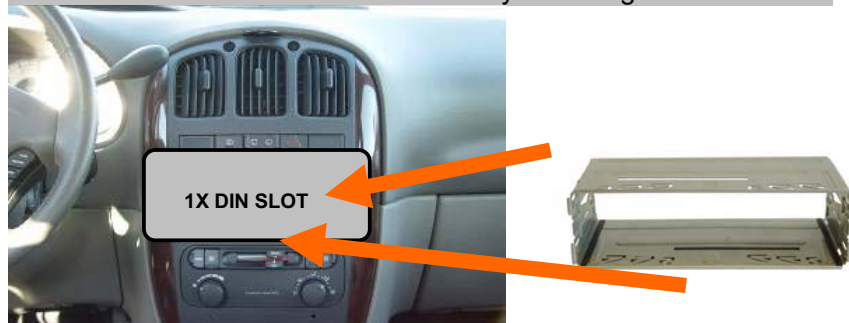
Washer, spring Washer, M5 Nut	1		Rubber cushion	1	
----------------------------------	---	---	-------------------	---	---

Mounting Strap	1		Screw	4	
Bolt	1		key	2	
Screw	1		sleeve	1	
ISO Cable	2		Manual	1	

### Installation in Dashboard

If your car is fitted with a one (1x) DIN size opening for a car audio system, you can install the Car Radio according these steps.

Note: Unit should be installed horizontally in an angle less than 30°.



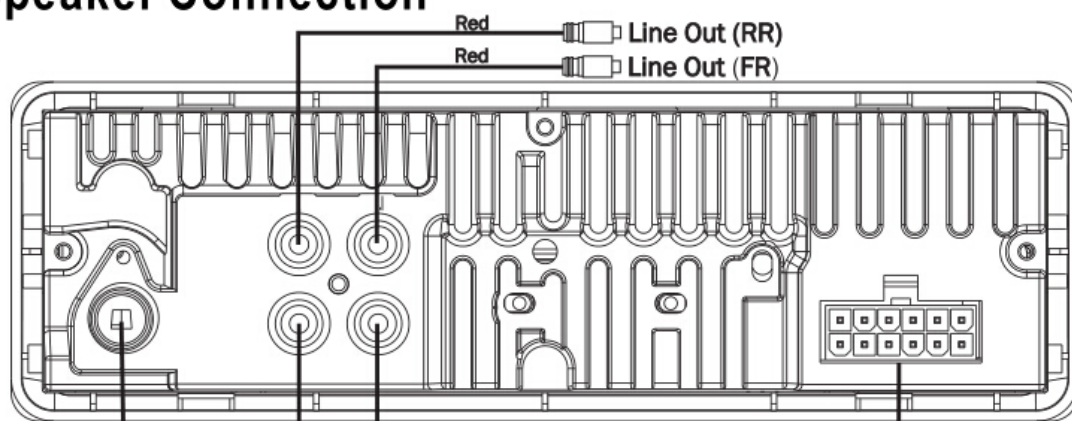
- 1) Insert the mounting bracket into the 1X DIN opening of your dashboard.
- 2) Bend the mounting tabs outwards with a screwdriver, to tighten and fix the mounting bracket in its place.
- 3) Connect the M5 Bolt to the rear of the unit.
- 4) Check electrical connections as described earlier (either an ISO connection or separate wiring)
- 5) Insert the ISO connector into the unit.
- 6) Push the unit into the mounting bracket until you hear a click
- 7) Move the assemble bar (metal strip with holes) over the M5 bolt. And use the M5 nut to tighten the assemble bar.
- 8) Use the screw Bt5x20 to fix the other side of the assemble bar to the car body.
- 9) Place the front rim over the unit to finish the installation.

### Wiring Connections

Note: Never connect cable to the system while it is connected to the battery power. Whenever the unit is disconnected from the battery, the preset memory will be erased and the unit will go back to its factory defaults.



### ISO Speaker Connection

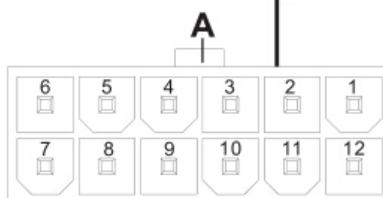


**A1**  
BATTERY +12VDC → To terminal  
always supplied with power.

**A2**  
ACC +12VDC → To electric terminal  
controlled by ignition switch(12V DC)  
ON/OFF.

**A11**  
REMOTE/PWR.ANT +12VDC → To  
system control terminal of the  
power amp or Auto-antenna control  
terminal(max.100mA 12V DC).

**A12**  
GROUND → To vehicle (metal)body.



- Front Speaker**
- A4 Left +(white)
  - A9 Left -(white/black)
  - A5 Right +(gray)
  - A8 Right -(gray/black)
- Rear Speaker**
- A3 Left +(green)
  - A10 Left -(green/black)
  - A6 Right +(purple)
  - A7 Right -(purple/black)

Speaker impedance: 4 Ohm  
Max Power output: 50Wx4



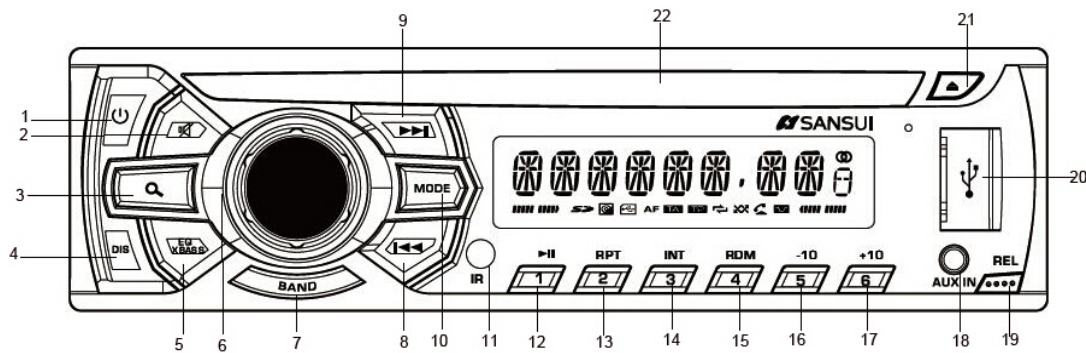
**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN





山水電気株式会社  
SANSUI ELECTRIC CO., LTD. JAPAN  
SINCE 1944 JAPANESE INNOVATION

[www.sansui-caraudio.com](http://www.sansui-caraudio.com)

## Panel



- |  |                                    |
|--|------------------------------------|
| 1) Power button  | 11) IR sensor                      |
| 2) Mute button   | 12) Present 1/Play or pause button |
| 3) Search button   | 13) Present 2/Repeat button        |
| 4) Dis button  | 14) Present 3/Introduce button     |
| 5) EQ/X-BASS button  | 15) Present 4/Random button        |
| 6) Volume/Sel button   | 16) Present 5/Down 10 button       |
| 7) Band button   | 17) Present 6/Up 10 button         |
| 8) Fast rewind/Previous track/<br>Accept  (For SA-CD102 Only) | 18) AUX-IN Jack                    |
| 9) Fast forward/Next track/Reject  (For SA-CD102 Only)        | 19) Release button                 |
| 10) Mode button  | 20) USB slot                       |
|  | 21) Open button                    |
|  | 22) DISC Slot                      |

### Note:

1. If the control panel is dirty, wipe off the dirt with soft, dry cloth only. And use a cotton swab soaked in isopropyl alcohol to clean the socket on the back of the control panel.
2. Support for most of the android mobile phone charge.

### Basic Operations

#### Reset the unit

Operating the unit for the first time or after replacing the car battery, you must reset the unit. Press RESET button to restore the unit to its original factory settings.

#### Power on/off

Press PWR button to turn on the unit. Press again to switch the unit off.

#### Volume control

Rotate VOL knob on the front panel or press VOL +/- button on RC to adjust the volume level.

#### Turning the sound off

Short press MUTE button on the front panel or press MUTE button on RC to turn the sound off. Press it again to turn the sound on.

#### Setting the sound characteristics

Repeatedly press SEL button on the front panel or RC to select the audio settings: BAL => FAD => X-BASS => ROCK => DX => STEREO => VOLUME. Rotate VOL knob on front panel adjust each setting.

#### VOL

When VOL is selected, rotate the volume knob clockwise to boost the default startup volume, rotate the volume knob counterclockwise to decrease the default startup volume.

#### DIS

Long press DIS button to enter time setting (default hour setting), rotate the volume knob clockwise to increase the hours, short press VOL button to switch to minutes setting. Then rotate the volume knob clockwise to increase the minutes, press DIS button to confirm input.

#### BEEP

Long press VOL button till LAST displayed on the LCD, short press VOL button to select BEEP mode, then rotate the VOL knob to select BEEP on or off for all modes.

- Beep on: The beep sound is on when any key is pressed.

- Beep off: The beep sound is disabled.

#### DX



When DX is selected, rotate the volume knob to select ON or OFF. ON to select the long distance radio

station mode (DX), select OFF for short or local distance radio stations (LOC).

### **STEREO**

Press the VOL knob to select STEREO or MONO in radio reception.

### **X-BASS**

Set X-BASS on or off. X-BASS function is to emphasize the bass output.

### **Mode setting**

Press MODE button to select a mode: FM1->DISC->USB->SD/MMC->AUX->FM1.

(\*Disc, USB, and CARD modes will only show on the display when a disc, a USB device, or a memory card is inserted into the unit).

### **EQ setting**

Press EQ button to select a predefined equalizer sound effect according your liking in the following sequence: ROCK →POP →CLASSIC → DISP OFF.

### **AUX jack**

AUX-in jack is intended for a connecting external audio to amplify the sound. If connection is made correctly, the audio signal from the external source will be translated through the acoustics of the head unit. This enables to adjust the volume and quality of the sounding. For example, you can connect an MP3-player to listen to tracks using the car acoustic system.

## **Digital Tuner Operations**

### **Tuner Select**

Press BAND button repeatedly on the panel or RC to select TUNER mode.

Press BAND to select: FM1->FM2->FM3->MW1->MW2.

### **Manual / Auto tuning**

#### **- Automatic search mode:**

Press the ►► or ◀◀ button briefly to launch the automatic search forwards or backwards. The radio will search up or down for a strong signal radio station within the current band.

#### **- Manual search mode:**

Press and hold the ►► or ◀◀ button until "MANUAL" appears on display, it will change into manual searching mode. Press the ►► or ◀◀ button repeatedly to manually search upward or downward step by step for the desired radio station within the current band.

### **To store / recall a preset radio stations**

You can store up to a total of 18FM or 12MW radio stations in the memory, manually or automatically.

#### **Auto memory store**

Select a band, press AS/PS button and hold for 2 seconds on the front panel to enter auto store mode. The radio will automatically store 6 stations to the 6 preset memories of the current band. To stop auto store, press this button again.

#### **Preset scan**

Select a band, press SEARCH button on the front panel to scan all preset stations in the memories of the current band, each preset scan for 5 seconds. To stop preset scan, press the button again.

## **CD - USB – SD/MMC Card Operation**

### **Inserting the SD/MMC card/USB device**

Insert the SD/MMC card or USB device into SD/MMC slot or USB socket. Then the playing mode will be changed into SD/MMC, USB mode automatically.

**Note:** When SD/MMC card and USB device are both inserted, the playing mode will be changed into the mode of the device inserted later.

### **Playing/pausing**

Press PAUSE button on the front panel to break playback, press it again to resume playback.

### **Select track**

1. Press the ►► button to play the next track, press ◀◀ button to play from the beginning of the current track.

2. Press 5 / -10 button on the front panel to rewind 10 tracks. And press 6 / +10 button on the front panel to skip 10 tracks.

### **Fast forward/rewind**

Keep the ◀◀ or ►► button pressed to start fast forward or rewind.

### **Intro playback**

Press the 3 / INT button on the front panel to scan all tracks. "INTRO" is shown on the display. All tracks are played in sequence for around 10 seconds. Press again to resume normal playback.

### **Repeat function**

Repeatedly press the **2 / RPT** button on the front panel to repeat playing in different mode: repeat one/ repeat DIR / repeat off.

#### **Random function**

During playback press **4 / RDM** button on the front panel to activate random playing mode, press once more to return to normal playing.

#### **File/Folder Search (for MP3 files)**

The search modes work with CD/MP3/USB/SD/MMC with MP3 files.

- File Number Search

Press AS/PS button 2 times to enter file search, the "\*" is displayed, meaning the unit is ready to accept file number for search. Rotate VOLUME knob to input the first alphabet (from A to Z) or digit (from 0 to 9) of file you want to search. Press VOLUME button to see total file number displayed on the LCD.

- File Name Search

Press SEARCH button 3 times to enter file name search, the "\*" is displayed, meaning the unit is ready to accept file number for search. Rotate VOLUME knob to input the first alphabet (from A to Z) or digit (from 0 to 9) of file you want to search. Press VOLUME button to see total file number displayed on the LCD.

- Folder Search

Press SEARCH button to enter DIR search, after see total folder number displayed, rotate VOLUME knob to choose folder, then press VOLUME button to enter subfolder. After complete, press VOLUME button to play.

NOTE: If entered wrong letter or number, just press SEARCH button to delete it.

#### **ID3 TAGS DISPLAY**

Pressing the DIS button on the front panel will show the following current tuning information and time: CT (Clock/Time)

#### **Bluetooth Operation (only for SA-CD102)**


This unit offers you the option of using a Bluetooth-enabled mobile phone. The function radius is limited to around 3 meters depending on the device.

Do not set the volume too high. Doing so may lead to feedback (whistling) from the speakers.

#### **Pairing devices (PAIRING)**

Before you can use the car radio to make phone calls, you must pair the units.

#### **Redial**

The unit stores the last call numbers automatically. To access this, proceed as follows: Short press Mode button on the front panel to go into BT menu, press the BT key  on the panel to dial out the last number which called before.

The LCD display "CALLING" and phone display phone number



#### **Incoming call**

In coming calls the LCD display phone number and the LCD display phone number only.

#### **Music playback via A2DP (BT AUDIO)**

Enter BT mode, short press 1/Play or pause button to select BT AUDIO mode.

To control the source remotely, the playback unit must support the AVRCP profile (Audio Video Remote Control Profile).

- ◆ After you have connected the units to each other, start playing the music in your mobile phone
- ◆ Press  or  button to select the next or previous track

### **Technical Specifications**

#### **General**

Operational Voltage:	12 Vdc (10.8 ~16V allowable)
Fuse:	10 A
Installation Angle:	Vertical 0° to +30°, horizontal ±15°
Audio Input (AUX, Stereo):	1 (Front, 3.5mm)
Audio Output (RCA):	4 Channel
Maximum Power Consumption:	10 A
Installation Size (W x H x D):	178 x 50x 165 mm
Station Memory:	30 (18 FM / 12 MW)
Maximum Power Output:	4 x 50 Watt

Impedance: 4 – 8  $\Omega$   
Supported Medium: SD, USB, CD, MMC, (Bluetooth for SA-CD102)  
Supported Formats: MP3, WMA

**FM / MW RADIO**

FM Frequency Range: 87.5 – 108.0 MHz  
MW Frequency Range: 522 – 1620 kHz  
Antenna Impedance: 75  $\Omega$

**AUX AUDIO**

Frequency Range ( $\pm$  3 dB): 20 Hz – 20 KHz  
Audio Input Level: 500mV (2V Max)  
RCA Output Level: 2V

**Specifications are subject to change without notice. Mass and dimension are approximate.**