

**RCD277DBT**

Bluetooth/CD/MP3/SD/MMC/USB Player with DAB+/FM/AM tuner

**Operation Instructions**







## Safety Information

Thank you for purchasing this product. Please read this manual carefully before operating and reserve it for future reference.

### PRECAUTIONS

- Use only in a 12-volt DC negative-ground electrical system.
- When replacing the fuse, be sure to use one with an identical amperage rating. Using a fuse with a higher amperage rating may cause serious damage to the unit.
- DO NOT attempt to disassemble the unit. Laser beams from the optical pickup are dangerous to the eyes.
- Make sure that pins or other foreign objects do not get inside the unit, they may cause malfunctions, or create safety hazards such as electrical shock or laser beam exposure.
- If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.
- Keep the volume at a level at which you can hear outside warning sound (horns sirens, etc.).

### CD Notes

- Playing a defective or dusty CD can cause dropouts in sound. 
- Hold CDs as illustrated. 
- Do not touch the unlabeled side. 
- Do not attach any seal, label or 

data protection sheet to either side of a disc.

- Do not expose a CD to direct sunlight or excessive heat.
- Wipe a dirty CD from the center outward with a cleaning cloth.
- Never use solvents such as benzene or alcohol.
- This unit cannot play 3-inch ( 8cm ) CDs. NEVER insert a 3-inch CD contained in the adapter or an irregularly shaped CD. The unit may not be able to eject it, resulting in malfunction.

### Before Operation

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operation.

### CAUTION

- DO NOT open covers and do not repair yourself. Consult the dealer or an experienced technician for help.

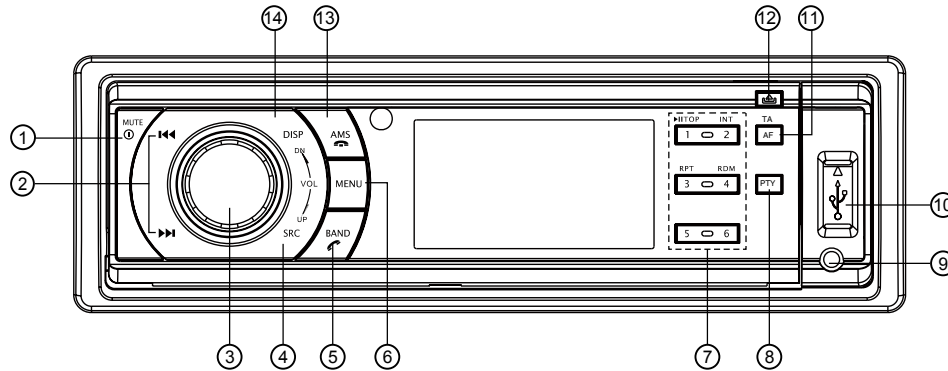
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\* In addition to ordinary CDs, this unit can playback CD-R or CD-RW, MP3.

## Panel Controls

Power on : Press any button on the panel except  to turn on the unit.



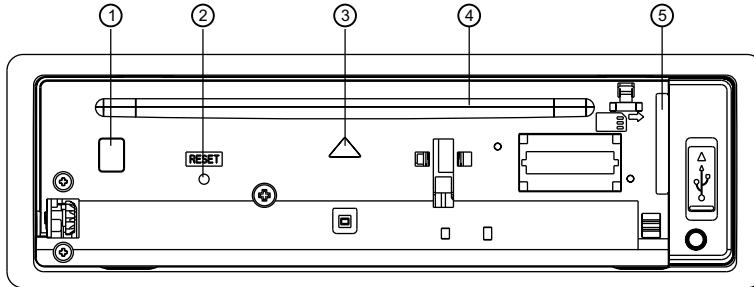
1. - Power on  
- Mute  
- Press more than 2 seconds to power off.
2. - Radio tune  
- Track skip/seek
3. - Press to pop out/push back the knob.  
- Rotate the knob to adjust volume level.
4. - Radio  
- Disc play (when disc inserted)  
- Card (when SD/MMC card inserted)  
- USB (when USB inserted)  
- AUX-in  
- BT music (when BT connected)  
- DAB
5. - Band switch:  
FM1->FM2->FM3->MW1->MW2  
BAND1-> BAND2->BAND3

- Dial/Receive call  
- While talking, press to transfer the call.
6. - Press to select VOL/BAS/TRE/BAL/FAD,  
rotate the knob to adjust level.  
- Hold it to system menu.
7. - Track playback  
Button 1: - Play/Pause function.  
- Long press if you want to start  
playback from the beginning of  
the first track of your disc.  
Button 2: - Intro play (10 sec)  
Button 3: - Track repeat play  
Button 4: - Track random play  
Button 5: - MP3 track -10 down  
- Hold it to previous folder.  
Button 6: - MP3 track +10 up  
- Hold it to next folder.

- Radio preset  
Press 1~6 to listen to a preset station.  
Hold 1~6 to store station.
8. - Program type
9. - AUX-in jack
10. - USB connector
11. - Alternative frequency  
- Traffic announcements identification  
(press more than 2 sec.)
12. - Panel release
13. - AMS: Radio preset scan  
Radio auto preset  
- SEARCH: MP3 track/file/character search.  
- Call off / cancel
14. - Display switch

## Other Instructions

Press the  button to open the panel and press  to eject the disc.

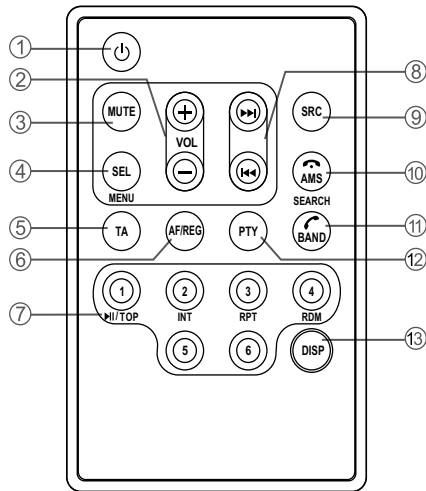
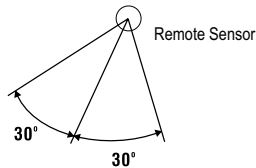


1. - Disc eject
2. - Reset hole  
Note: Pressing the RESET hole will erase the clock setting and stored stations.
3. - Panel status indicator  
Lights up when you flip the panel down;  
Twinkles when you remove the panel.
4. - Disc slot, insert the disc.
5. - SD/MMC card slot

# Remote Control

## Operating range

Point the remote control unit to the remote sensor when you operate with it.  
The remote control can operate within a distance of 3-5m.

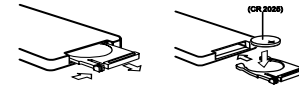


1. - Power on/off
2. - Volume
3. - Mute
4. - Press to select VOL/BAS/TRE/BAL/FAD, use volume button to adjust level.  
- Press and hold it to enter Menu mode.
5. - Traffic announcements identification
6. - Alternative frequency  
- REG on/off (long press)
7. - Disc Playback  
Button 1: - Play/Pause  
- Top play (press more than 2 sec)  
Button 2: - Intro play (10 sec)  
Button 3: - Track repeat play  
Button 4: - Track random play  
Button 5: - MP3 folder down  
- Track -10 down  
Button 6: - MP3 folder up  
- Track +10 up  
- Radio Preset  
Press to listen to a preset station.  
Press and hold to store station.
8. - Radio tune/Track seek
9. - Select playback source
10. - AMS: Radio preset scan/Radio auto preset  
- SEARCH: MP3 track/file/character search  
- Call off / cancel
11. - Radio band switch  
- Dial/Receive call  
- While talking, press to transfer the call.
12. - Program type
13. - Display switch

## Replacing the lithium battery of remote control unit.

When the range of the operation of the card remote control becomes short or no functions while operating. Replace the battery with a new lithium battery. Make sure the battery Polarity replacement is correct.


1. Pull out the battery holder while pressing the stopper.
2. Insert the button-type battery with the stamped(+) mark facing upward.  
Insert the battery holder into the remote control.

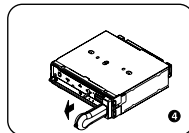
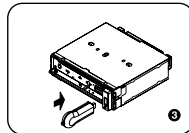
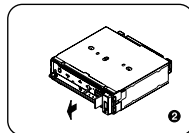
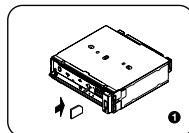


## WARNING:

- Store the battery in place where children cannot reach. If a child accidentally swallowed the battery, consult a doctor immediately.
- Do not recharge, short, disassemble or heat the battery or dispose it in a fire. Doing this may cause the battery to give off heat, crack or start a fire.
- Do not leave the battery with other metallic materials or poke the battery with tweezers or similar tools.
- When throwing away or saving the battery, wrap it in tape and insulate.

## USB/SD/MMC MP3 Playback

1. Loading SD/MMC Card  
Press  button to flip down the panel, insert the SD/MMC card into the slot, with the front side at left. Close the panel, the unit will play the music automatically.
2. Take out SD/MMC Card  
Press SRC button and switch to non CARD mode, open the panel, slightly press the card, take out the card when it was popped out.
3. Loading USB equipment  
Open the cap, insert the USB into the connector and the unit play the music in the USB storer automatically.
4. Take out USB equipment  
Press the SRC button and switch to non USB-DRIV mode, then take off the USB storer, close the cap.



### USB/SD/MMC Notes

USB functions (flash memory type) MP3 music play


1. SD/MMC card support.
2. USB flash memory 2 in 1 (SD/MMC) support.
3. Fat 12 / fat 16 / fat 32 is possible.
4. File name: 32 byte / dir name: 32 byte / tag name: 32 byte.
5. Tag (ID3 tag ver 2.0)  
- title / artist / album: 32 byte support.
6. Multi card reader not support.
7. USB 1.1 support.  
USB 2.0 support  
(It can not support USB 2.0 speed. Just, get the same speed with USB1.1).  
Not all USB devices are compatible with the unit.

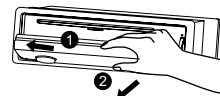
## Anti-Theft

This unit is designed with a flip-down detachable panel.

The panel can be detached and taken with you, helping to deter theft.

### Removing the panel

- Switch off the power of the unit.
- Press  to flip down the panel.
- Hold right part of the panel, slightly push it to the left side, then pull it out.
- Place the panel into the case and take it with you when you leave the car.



## General Operation

### Power On/Off Button

Press the MUTE/Ⓞ button to turn the unit on when the vehicle ignition switch is on. Long press to turn the unit off.

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### Adjust Volume level

Rotate the VOL knob to adjust volume level. Rotate it clockwise to increase and anticlockwise to decrease the volume.




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### Mode Button (SRC)

Press the SRC button to change between Radio, DISC (when disc is in), USB(when USB connected), SD/MMC card(when card inserted), AUX play, BT audio, DAB.

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### Disc Load/Eject

Load: Press  to flip down the panel. Insert the disc into the slot .  
Eject: Press  to flip down the panel. Press  to eject the disc .

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### Radio

To fine tune the radio, press |<< or >>| briefly.  
To search the station automatically, press |<< or >>| for more than 2 seconds.

### Disc Playback

Track skip: Press |<< or >>| briefly to go to the next or previous track.

Track seek: Press |<< or >>| for more than 2 seconds to seek the forward or previous track.

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### AMS : Auto Memory Store

Press AMS briefly to scan the preset station 1-6 for 5 seconds each. Hold for more than 2 seconds, the 6 strongest available station will be automatically saved in the memory of preset buttons 1-6.

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### Auxiliary Input (optional)

To access an auxiliary device:

1. Connect the portable audio player to the AUX interface.
  2. Press the SRC button to select Aux-In mode.
  3. Press SRC again to cancel Aux-In mode and go to the next mode.
- 

### Display Selector (DISP)

This unit can display either the clock time or radio frequency/DAB frequency/CD player functions. Ordinarily, the radio frequency/DAB frequency or CD player track indication is displayed, but the unit will display the time when the DISP button is pressed. The time will display for approximately 5 seconds then return to the radio/CD or DAB player function display.

### Note:

DAB Information(Press Disp Key):  
Clock Disp->DLS Info ->PTY Disp->Signal Group Name Disp->Frequency Disp->Bit Rate Disp->Service Name Disp

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### Setting the Clock

The correct time of day can be set by pressing and holding the DISP button.

To set the clock, perform the following steps:

1. Turn the vehicle ignition and radio on.
2. Press the DISP button to view the clock.
3. With the clock visible on the display, press and hold the DISP button until the time display flashes.
4. Within 5 seconds, rotate the VOL knob counter clockwise to adjust the minutes to the desired setting. To change the hour, rotate the VOL knob clockwise to adjust the hour to the desired time.
5. Press DISP button to confirm and exit clock setting.

## Radio Operation

### Band Switch

Press BAND button to select radio band as follows: FM1, FM2, FM3, WM1, WM2

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### TUNE

MANU SEEK: Press ◀ or ▶ to tune step by step.

AUTO SEEK: Press ◀◀ or ▶▶ more than 2 seconds to seek automatically.

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### Store Station Manually

Press button 1 - 6 more than 2 seconds to store current station.

Press 1-6 briefly to recall preset station.

RDS service availability varies with areas. Please understand if RDS service is not available in you area, the following service is not available.

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### RDS Basics

AF(Alternative Frequency): When the radio signal strength is poor, enabling the AF function will allow the unit to automatically search another station with the same PI (program identification) as the current station but with stronger signal strength.

PS (Program Service name): The name of station will be display instead of frequency.

AF Mode:

AF on: AF function is activated.

AF off: AF function is disabled.

Remark: AF indicator on LCD will flash until RDS information is received. If RDS service is not available in your area, turn off the AF mode.

REG Mode: Press AF on the remote control for more than 2 seconds to switch REG mode on and off.

REG on: AF function will implement the regional code (of the PI) and only stations in the current region can be tuned automatically.

REG off: AF function will ignore the regional code (of the PI) and stations in the other regions can also be tuned automatically.

### Traffic Announcements

Some RDS FM stations periodically provide traffic information.

TP (Traffic Program Identification)

Broadcasting of traffic information

TA (Traffic Announcements Identification)

Radio announcements on traffic conditions

TA Mode: Hold TA/AF button on the panel or press TA button on the remote control to turn on/off TA mode. When TA mode is turned on, the TA indicator will blink.

When traffic announcement is received, the TA indicator will display. The unit will temporarily switch to the tuner mode (regardless of the current mode) and begin broadcasting the announcement at TA volume level. After the traffic announcement is over, it will return to the previous mode and volume level. When TA is turned on, SEEK, SCAN, AMS function can only be received or saved when traffic program identification (TP) code is received.

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### EON (Enhanced Other Networks)

When EON data is received, the EON indicator lights and the TA and AF functions are enhanced.

TA: Traffic information can be received from the current station or stations in other network.

AF: The frequency list of preset RDS stations



## Radio Operation

is updated by EON data. EON enables the radio to make fuller use of RDS information. It constantly updates the AF list of preset stations, including the one that currently tuned into. If you preset a station around the area at your home, you will later be able to receive the same station at an alternative frequency, or any other station serving the same program, EON also keeps track of locally available TP stations for quick reception.

### PTY Reception (Program Type)

RDS FM stations provide a program type identification signal.

Example: news, rock, info, sport, etc.

PTY Mode: Press PTY button to enter the MUSIC type, the previous type is shown. Press PTY again to enter SPEECH type. At MUSIC type or SPEECH type, use buttons 1 - 6 to select the desired program type. The selected PTY type is shown and searching starts if no other function is selected for 2 seconds. If there is no corresponding program type, NO PTY is shown and the unit will return to normal mode.

## DAB Operation

### Band Switch

Press BAND button to select DAB band as follows: BAND1-> BAND2->BAND3

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### Search stations

Full Scan: Long press AMS button.

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### TUNE(DAB)

1. Long press radio tune buttons ◀ or ▶ to display next or previous frequency.
2. Press volume knob button to connect to station.

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### Store station

Press button 1 - 6 more than 2 seconds to store current station.

Press 1-6 briefly to recall preset station.

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### PTY button

Press PTY button the unit will display "Short Service Name" or "Full Service Name"

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### Track seek

Press ◀ or ▶ to seek the forward or previous service name.

## MP3 Playback

While playing MP3 disc/USB/SD/MMC-MP3 MUSIC, the folder/file name and ID3 TAG (Song title, Album and Artist) can scroll entirely across the LCD.

Press the button BAND to show ID3 information:

Elapsed playing time & Track number -> Folder name & number -> File name & number -> Song title -> Album title -> Artist name

### Direct Song/File Access

1. Press the AMS button once and press MENU button to enable direct track searching.
2. Rotate the VOL control to select a digit at the units position.
3. Press MENU button to confirm entry and the tens digit will flash.
4. Rotate the VOL control to select the tens digit.
5. Repeat above steps to enter the hundreds and thousands digit, if necessary.  
NOTE: The unit will only allow the selection of digits that correspond with the number of files on the media you are searching.
6. Once the track number appears on the screen, long press MENU button to play the selected song/file.

### Searching Folders/Files

1. Press the AMS button twice and press MENU button to access the "FILE SCH" option.
2. Rotate the VOL knob to select the desired directory/song.
3. Press MENU button to view the files inside the selected directory.
4. Rotate the VOL knob to select the song/file. Press MENU button to play the selected song/file.

### Searching by Name (CHAR-SCH)

1. Press the AMS button three times and press MENU button to access the "CHAR SCH" option.
2. Rotate the VOL knob to select the characters A-Z, \_ , - , + , and 0-9 for the first character.
3. Press MENU button to confirm entry of the character and move to the next position.
4. Repeat for up to eight characters.
5. Hold MENU button for 2 seconds to begin the search.
6. If a directory is found, rotate the VOL knob to select the song/file in this directory/folder.
7. Hold MENU button for 2 seconds to play the selected song/file. "NO MATCH" appears if there is no file beginning with the search string entered.

## MP3 Overview

### Note on MP3

"MP3" technology (mpeg audio layer3) reduces the digital data of an audio CD significantly while maintaining CD-like sound quality.

- MP3 is a music compression technology, MP3 (mpeg audio layer 3) reduces the digital data of an audio CD significantly while maintaining CD-like sound quality.
- This product allows playback of MP3 files on CD-ROM, CD-R or CD-RW discs.
- The unit can read MP3 files written in the format compliant with ISO 9660. However it does not support the MP3 data written by packet writing.
- The unit can not read an MP3 file that has a file extension other than ".mp3".
- If you play a non- MP3 file that has the ".mp3" extension, you may hear some noise.
- In this manual, we refer to what are called "MP3 file" and "folder" in PC terminology as "track" and "album" respectively.
- Maximum number of directory is 128, maximum number of directory level is 8, including the root directory. Maximum number of MP3 files per disc is 1000.
- The unit may not play tracks in the order of track numbers.

## MP3 Overview

- The unit support multi-session disc with MIXED & EXTRA format, but plays the MP3 tracks is priority. MIXED format: disc structure first is MP3 data, second is audio data.  
EXTRA format: disc structure first is audio data, second is MP3 data.
- The unit support all MPEG bit rate including free format for MPEG 1 audio layer 3, support all MPEG bit rate except 8kbps and free format for MPEG 2 audio layer 3.
- The unit support 32/44.1/48kHz sampling rate for MPEG 1 audio layer 3, 32/44.1/48kHz and 16/22.05/24kHz sampling rate for MPEG 2 audio layer 3, and 44.1kHz sampling rate for VBR (Variable Bit Rate) .

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### How to get music files

- Either download legal music files from the internet to your computer hard disc or create them from your own audio CDs. For this, insert an audio CD into your computer CD-RW drive and convert the music using an appropriate encoding software.

### Note on creating your own CD-Rs or CD-RWs containing MP3 files

- To enjoy high quality music, we recommend converting MP3 files with a sampling frequency of 44.1 kHz and a fixed bit rate of 128 kbps.
- Do not store more than 1000 MP3 files per disc.
- For ISO 9660 -compliant format, the maximum allowable depth of nested folders is 8, including the root directory (folder).
- When CD-R disc is used, playback is possible only for discs which have been finalized.
- Make sure that when M P3,CD-R or CD-RW is burned that it is formatted as a data disc and NOT as an audio disc.
- It is not recommended to write non-MP3 files or un-related folders along with MP3 files on the disc, otherwise it may take longer time to start playing the MP3 music.
- With some CD-R or CD-RW media, data may not be properly written depending on their manufacturing quality.  
In this case, data may not be reproduced correctly. High quality CD-R or CD-RW disc is recommended.

- Support ID3 tag Version 1.XX and 2.XX, up to 16 characters can be displayed for the title of the song, album and the artist.
- Note that the unit may not play tracks as ripped and recorded.

## Bluetooth Operation

### Note:

For your safety, avoid talking on the phone as much as possible while driving.

Bluetooth is a wireless transmission way for short distance. The built-in Bluetooth can connect with the mobile phones having Bluetooth function.

After connecting, you can control your mobile phone through the unit.

### Pairing

Use this function to establish a connection between the unit and your mobile phone.


1. Turn on the unit.
2. Turn on Bluetooth function of your mobile phone, keep phone within 3 meters to the unit and start to search for Bluetooth devices.
3. After the name of the Bluetooth module appears on the pairing list of your mobile phone, select it. At this time, a pairing code is required. Enter the pairing code "0000", and the Bluetooth pairing will process automatically. Some mobile phones may instruct you to select connect or disconnect, please select connecting.

### Exit Pair




After pair successfully, if you want to disconnect, press and hold SRC button to disconnect Bluetooth connection.

If you want to re-connect, press and hold SRC button.

### Make a call



1. Press SRC button to select BT MUSIC mode.
2. Press  /AMS button.
3. Rotate the VOL knob to select from the following list:  
DIAL NUML dial number directly  
DIALLED: dialed number  
MISSED: missed call  
RECEIVED: received call  
ME PBK: Phone directory  
SIM PBK: SIM directory
4. Press Menu (Volume) button to confirm the selection.

To dial a number directly, select DIAL NUM.


1. Rotate the VOL knob to select phone number, press MENU button to confirm.
  - Press  button to delete a digit inputted.
  - Press  button to reset entered number.
2. Press  to dial out.

To use a number in call log or directory, select the option other than DIAL NUM.

### Receive

1. After pair successfully, if there is a call incoming, the unit switch to BT mode automatically.
2. Press  button to receive.
3. Press  button to hang up.

### Call Transfer

During talking, press  button to transfer audio from the unit to your mobile phone.

### Note:

Some mobile phones will transfer audio from the unit to themselves once the incoming call is answered.

### BT Audio

To listen to audio from a bluetooth device and control playback with the unit.

1. Press SRC button repeatedly to select BT MUSIC mode.
2. To play or pause, press 1 >|| TOP.

## Bluetooth Operation

### Music Mode

#### A2DP

A2DP is short for Advanced Audio Distribution Profile. The mobile phones supporting this function can transmit stereo audio, whereas the ones not supporting this function can transmit mono audio only.

#### AVRCP

AVRCP is short for Audio/Video Remote Control Profile. The mobile phones supporting this function can control the playback of a Bluetooth audio player.

### General Notes for Bluetooth

1. For some types of mobile phones, during our test, after the mobile phones appear connection successful, the unit still appear waiting for pairing. At this time you must find the unit's Bluetooth module name on the pairing list on your mobile phone and select connecting in the submenu, then the unit will appear CONNECT. Otherwise, there is no voice coming out when communicating, though the mobile phone has already displayed CONNECT. Some mobile phones, when it play back A2DP, you must find the unit name in the phone's menu and reconnect (check your mobile phone whether has the A2DP & AVRCP functions).

2. When pairing, some types of mobile phone hint that how to operate, for example, when you make a phone call by the unit, if the mobile phone voice doesn't be transferred to the unit, no voice comes out.
3. Depending on the mobile phone, if private mode is selected, when you make a phone call by the unit, or receive, the voice would be transferred to the mobile phone. But sometime the Bluetooth maybe disconnect till the communication ends, then connects your mobile phone to the unit automatically. Some mobile phones maybe need pair again.
4. For mobile phone, the Bluetooth device name must be primary symbols or numbers. Otherwise, some unpredictable issues may occur during the Bluetooth devices connecting and making phone call.
5. After CONNECT, if no sound produced, please check whether the Bluetooth stereo audio on the phone switched ON.
6. Not all functions are supported on all phones. The compatibility of phones is variable.

## Menu Function

Press the MENU button more than 2 seconds to enter menu mode, then each press changes the mode, rotate the VOL knob to adjust.

### TA mode

Rotate the knob to choose TA ALARM or TA SEEK mode.

If the TA (traffic Announcements) is turned on and there is no traffic program identification code received in the specified time, no TA/TP will display and either TA ALARM or TA SEEK will be activated.

TA ALARM mode : Alarm is turned on.

TA SEEK mode: TA SEEK is automatically activated.

### MASK mode

Rotate the knob to choose MASK DPI or MASK ALL mode.

In some cases, the AF function may be influenced by some interference, examples are signals with strong field but without the RDS data. For this reason, the unit has two options to avoid the above interference.

#### MASK DPI mode :

Only AF which has different program identification is masked.

#### MASK ALL mode :

The AF which has different program identification and NO RDS signal with high field strength is masked.

## Menu Function

### TA VOL

Rotate the knob to adjust TA volume.

### RETUNE mode

RETUNE mode: Rotate the knob to choose RETUNE-S or RETUNE-L.

RETUNE-S or RETUNE-L is time length selection of TA SEEK retune interval.

RETUNE-S: short, TA SEEK retune interval is 45 seconds.

RETUNE-L: long, TA SEEK retune interval is 180 seconds.

Remark: RETUNE mode functions for TA during TA SEEK mode only.

### DSP mode

Rotate the knob to choose DSP sound effect: POP - ROCK - CLASSIC - FLAT - DSP OFF

### LOCAL/DX mode

Rotate the knob to choose tuner sensitivity local or distant.

### BEEP ON/OFF mode

Rotate the knob to choose button beep sound on or off.

### STEREO/MONO mode

Rotate the knob to choose FM stereo or mono.

### VOL LAST/ADJUST mode

Press MENU button to choose VOL LAST, the turn-on volume level is the volume level of latest power off.

Rotate knob to choose VOL ADJ, then rotate the knob to set the turn-on volume level.

### SWC (Steering Wheel Control) SET

Rotate the VOL knob step by step, the LCD screen will display the following options : POWER ->MUTE ->SOURE ->VOL UP->VOL DN->SEEK UP->SEEK DN->BAND.

1. Select any of a function of above options, then press and hold a button on the steering wheel if your steering wheel support the function, then the LCD screen will display "SAVE OK", it means this function was saved into the button of the steering wheel.
2. Repeat the above step 1 to set functions of other buttons of the steering wheel.
3. The unit can exit setting menu automatically when no operation to the unit.
4. After exit the setting menu and you can operate the player by the buttons on the steering wheel relatively.
5. If you want to change the setting, enter the SWC setting menu, select a function on the screen, press and hold a button on the steering wheel more than 2 seconds, then the function is saved into the button on steering wheel. At the same time, all other

functions saved in the buttons of steering wheel settings are cleared, you need reset them one by one once again, the method is same to the above step 1 and step 2.

### LOUD mode

Rotate the knob to choose loudness on or off.

### SEEK 1 / 2 mode

SEEK 1: Searching station will stop when the next station is received.

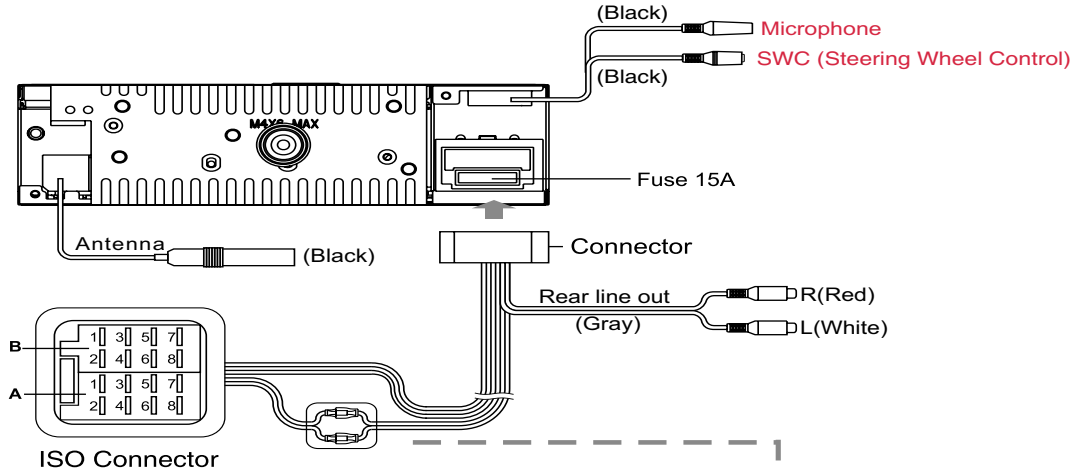
SEEK 2: Searching station will stop when |<< or >>| button is released and next station is received.

### 12/24 HOUR SET mode

Press MENU button to enter 12/24 hour set mode, rotate the knob to select 12 or 24 hour mode.

# Electrical Connections

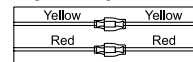
## Wiring Diagram



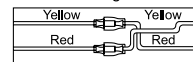
| Location | Function                                 |   |
|----------|--|---|
|          | Connector A                              | Connector B                               |
| 1        |  | Rear Right (+) / Purple                   |
| 2        |  | Rear Right (-) / Purple with Black Stripe |
| 3        |  | Front Right (+) / Gray                    |
| 4        | Battery 12V(+) / Yellow                  | Front Right (-) / Gray with Black Stripe  |
| 5        | ANT/AMP control / Blue with white stripe | Front Left(+) / White                     |
| 6        |  | Front Left(-) / White with Black Stripe   |
| 7        | ACC+ / Red                               | Rear Left (+) / Green                     |
| 8        | Ground / Black                           | Rear Left (-) / Green with Black Stripe   |

For some VW/Audi or Opel(vauxhall) car models, you may need to modify wiring of the supplied power cord as illustrated, or else the memory of the unit may be lost after you power off. Contact your authorized car dealer before installing this unit.

Original wiring



Modified wiring




# Installation Guide

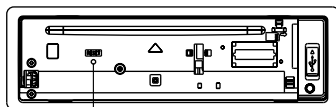
## Installation Procedures

First complete the electrical connections, and check for correctness.

### Reset

Press  button to flip down the panel. Then press the RESET button with a pointed object to reset the unit to the original status.

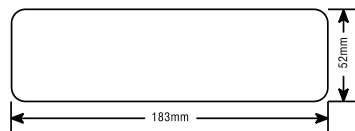
Note: Press the RESET button will erase the clock and stored stations.



Reset

### Installation Opening

This unit can be installed in any dashboard having an opening as shown below. The dashboard should be 4.75mm - 5.56mm thick in order to be able to support the unit.

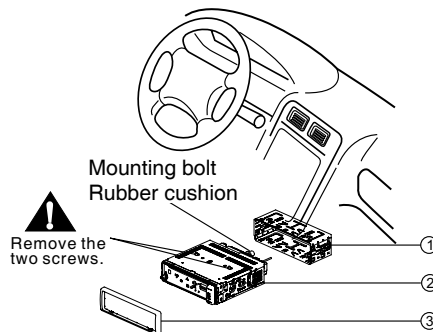


### Install the unit

Important:

Remove the two screws on the top of the unit before installation.

Otherwise, the player will not work.



1. Inset mounting collar into the dashboard, and bend the mounting tabs out with a screwdriver.

Make sure that lock lever is flush with the mounting collar (not projecting outward).

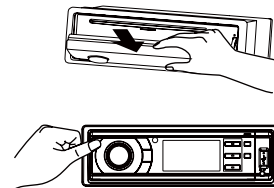
2. Secure the rear of the unit.

After fixing mounting bolt and power connector, fix the rear of the unit to the car body by rubber cushion.

3. Insert trim plate.

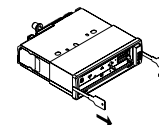
### Installing the panel

- Hold the panel and ensure the panel faces downward, and at an angle set one side of the panel in the panel bracket. Press the other side of the panel until it locks.
- Press the top of panel until it locks.



### Removing the unit

1. Switch the power off.
1. Remove the panel and the trim plate.
2. Insert both T-Keys into hole on the front of the set until they lock.
3. Pull out the unit.





## Troubleshooting

If you suspect something is wrong, immediately switch power off. Do not use the unit in abnormal condition, for example without sound, or with smoke or foul smell, can cause fire or electric shock. Immediately stop using it and call the store where you purchased it. Never try to repair the unit yourself because it is dangerous to do so.

| General               |                                     |                                   |
|-----------------------|-------------------------------------|-----------------------------------|
| No power or no sound. | Car's engine switch is not on.      | Turn your car's key to ACC or ON. |
|                       | Cable is not correctly connected.   | Check connection.                 |
|                       | Fuse is burnt.                      | Replace fuse.                     |
|                       | Volume is too low or muted.         | Check volume or mute on / off.    |
|                       | If the above solutions cannot help. | Press the RESET button.           |

| Radio                    |  |  |
|--------------------------|--|--|
| Much noise in broadcast. | Station is too far, or signals are too weak. | Select other stations of higher signal level.                  |
| Preset station lost.     | Battery cable is not correctly connected.    | Connect the battery cable to the terminal that is always live. |

| Disc                                   |                             |   |
|--|-----------------------------|---|
| Disc is inside but no sound.           | Disc is upside down.        | Place disc in the correct direction, and the label side up. |
|  | Disc is dirty or damaged.   | Clean disc or change another disc.                          |
| Disc sound skips, tone quality is low. | Disc is dirty or damaged.   | Clean CD or change another CD.                              |
| Sound skips due to vibration.          | Mounting angle is over 30°. | Adjust mounting angle to less than 30°.                     |
|  | Unstable mounting.          | Mount the unit securely with the mounting parts.            |

| USB/SD/MMC mode                               |  |   |
|---|--|---|
| Unable to insert USB device or SD/MMC card.   | The memory card or USB device has been inserted the wrong way round. | Insert it the other way around.   |
| The USB device or SD/MMC card cannot be read. | NTFS format is not supported.  | Check that the file system is in FAT or FAT32 format. Due to different formats, some models of devices may not be read. |

# Specifications

## General

|                            |  |
|----------------------------|--|
| Power supply               | 12V DC(11V-16V) Test voltage 14.4V,<br>negative ground |
| Max.current consumption    | 12A  |
| Maximum power output       | 50Wx4 channels   |
| Continuous power output    | 20Wx4  |
| Suitable speaker impedance | 4-8ohm   |
| Pre-Amp output voltage     | 2.0V (CD play mode: 1KHz, 0dB, 10K $\Omega$<br>load)   |
| Fuse                       | 15A  |
| Dimensions(WxHxD)          | 178x50x166mm   |
| Weight                     | 1.64kg   |
| Aux-in level               | $\geq$ 300mV   |

## Disc Player

|                           |                           |
|---------------------------|---------------------------|
| System                    | Disc digital audio system |
| Frequency response        | 20Hz - 20KHz              |
| Signal/noise ratio        | >80dB                     |
| Total harmonic distortion | Less than 0.20%(1KHz)     |
| Channel separation        | >60dB                     |

## FM Stereo Radio

|                      |                 |
|----------------------|-----------------|
| Frequency range      | 87.5 – 108.0MHz |
| Usable sensitivity   | 10dB $\mu$      |
| Frequency response   | 30Hz-15KHz      |
| Stereo separation    | 30dB (1KHz)     |
| Image response ratio | 50dB            |
| IF response ratio    | 70dB            |
| Signal/noise ratio   | 55dB            |

## AM(MW) Radio

|                              |               |
|------------------------------|---------------|
| Frequency range              | 522 – 1710KHz |
| Usable sensitivity(S/N=20dB) | 30dB $\mu$    |

## Components

|                           |   |
|---------------------------|---|
| Mounting collar           | 1 |
| Machine screws M5x6 mm    | 4 |
| Mounting bolt (50mm)      | 1 |
| Wire connector            | 1 |
| Removable face plate case | 1 |
| Trim plate                | 1 |
| T-key                     | 2 |
| Operating Instructions    | 1 |
| Rubber cushion            | 1 |
| Remote control unit       | 1 |
| SWC cable                 | 1 |
| MIC cable                 | 1 |

Note: Specifications and the design are subject to change without notice due to improvements.

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