



# **RCD 263**

## **INSTALLATION MANUAL**

ONLY FROM SERIAL NUMBER: 3923010000 >

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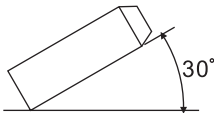
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## Installation

### Notes:

- Choose the mounting location where the unit will not interfere with the normal driving function of the driver.
- Before finally installing the unit, connect the wiring temporarily and make sure it is all connected up properly and the unit and the system work properly.
- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance



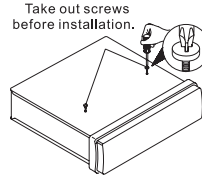
- Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, from the heater, or where it would be subject to dust, dirt or excessive vibration.

### Din Front/Rear-Mount

This unit can be properly installed either from 'Front' (conventional DIN Front-mount) or 'Rear' (DIN Rear-mount installation, utilizing threaded screw Holes at the sides of the unit chassis). For details, refer to the following illustrated installation methods.

### Take Out Screw Before Installation

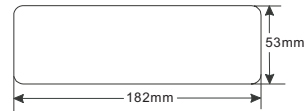
Before install the unit, please remove the two screws.



### 1. DIN FRONT-MOUNT (Method A)


#### Installation Opening

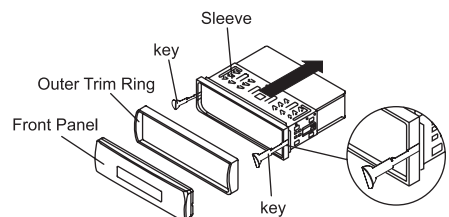
This unit can be installed in any dashboard having an opening as shown below:



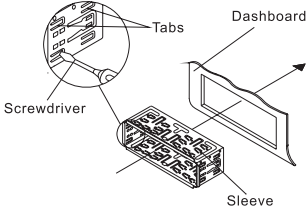
#### Installing the unit

Be sure you test all connections first, and then follow these steps to install the unit.

1. Make sure the ignition is turned off, and then disconnect the cable from the vehicle battery's negative (-) terminal.
2. Disconnect the wire harness and the antenna.
3. Press the  button on the front panel and remove the control panel (For details, refer to 'using the detachable front panel').
4. Lift the top of the outer trim ring then pull it out to remove it.
5. The two supplied keys release tabs inside the unit's sleeve so you can remove it. Insert the keys as far as they will go (with the notches facing up) into the appropriate slots at the middle left and right sides of the unit. Then slide the sleeve off the back of the unit.



6. Mount the sleeve by inserting the sleeve into the opening of the dashboard and bend open the tabs located around the sleeve with a screwdriver. Not all tabs will be able to make contact, so examine which ones will be most effective. Bending open the appropriate tabs behind the dashboard to secure the sleeve in place.

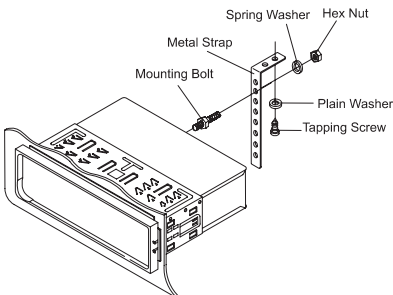


7. Reconnect the wire harness and the antenna and be careful not to pinch any wires or cables.

8. Slide the unit into the sleeve until it locks into place.

9. To further secure the unit, use the supplied metal strap to secure the back of the unit in place. Use the supplied hardware (Hex Nut (M5mm) and Spring Washer) to attach one end of the strap to the mounting bolt on the back of the unit. If necessary, bend the metal strap to fit your vehicle's mounting area. Then use the supplied hardware (Tapping Screw (5x25mm) and Plain Washer) to attach the other end of the metal strap to a solid metal part of the vehicle under the dashboard. This strap also helps ensure proper electrical grounding of the unit.

**Note:** Install the short threading terminal of the mounting bolt to the back of the unit and the other long threading terminal to the dashboard.



10. Reconnect the cable to the vehicle battery's negative (-) terminal. Then replace the outer trim ring and install the unit's front panel (see the steps of 'to install the front panel').

## Removing the unit

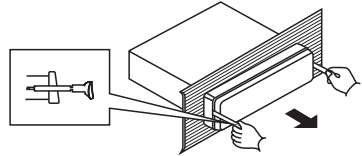
1. Make sure the ignition is turned off, and then disconnect the cable from the vehicle battery's negative (-) terminal.

2. Remove the metal strap attached the back of the unit (if attached).

3. Press the release button to remove the front panel.

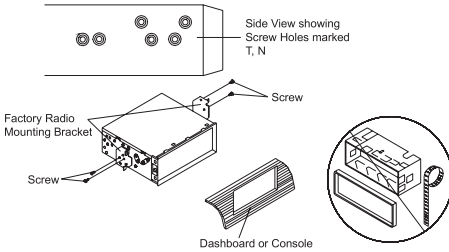
4. Lift the top of the outer trim ring then pull it out to remove it.

5. Insert both of the supplied keys into the slots at the middle left and right sides of the unit then pull the unit out of the dashboard.



## 2. DIN REAR-MOUNT (Method B)

If your vehicle is a Nissan, Toyota, follow this mounting instruction. Use the screw holes marked T (Toyota), N (Nissan) located on both sides of the unit to fasten the unit to the factory radio mounting brackets supplied with your vehicle.



Fasten the unit to the factory radio mounting brackets. Align the screw holes on the bracket with the screw holes on the unit, and then tighten the screws (5x5mm) on each side.

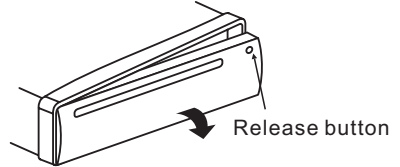
**Note:** the outer trim ring, sleeve and the metal strap are not used for method B installation.

## Using the detachable front panel

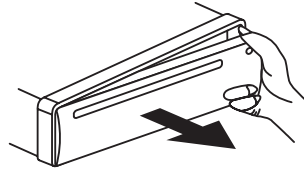
### Removing and protecting detachable front panel

The front panel of the unit may be removed as a theft deterrent. After removing the front panel, use the case provided to keep the front panel from getting damaged.

1. Press the Release button (▲) to flip down the front panel.

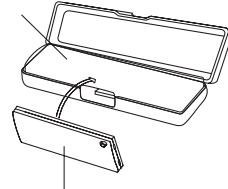


2. Pull off the front panel.



3. Store the front panel in the protective case provided for safekeeping .

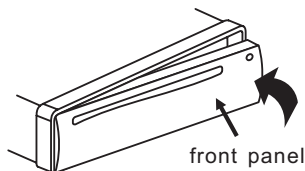
protective case



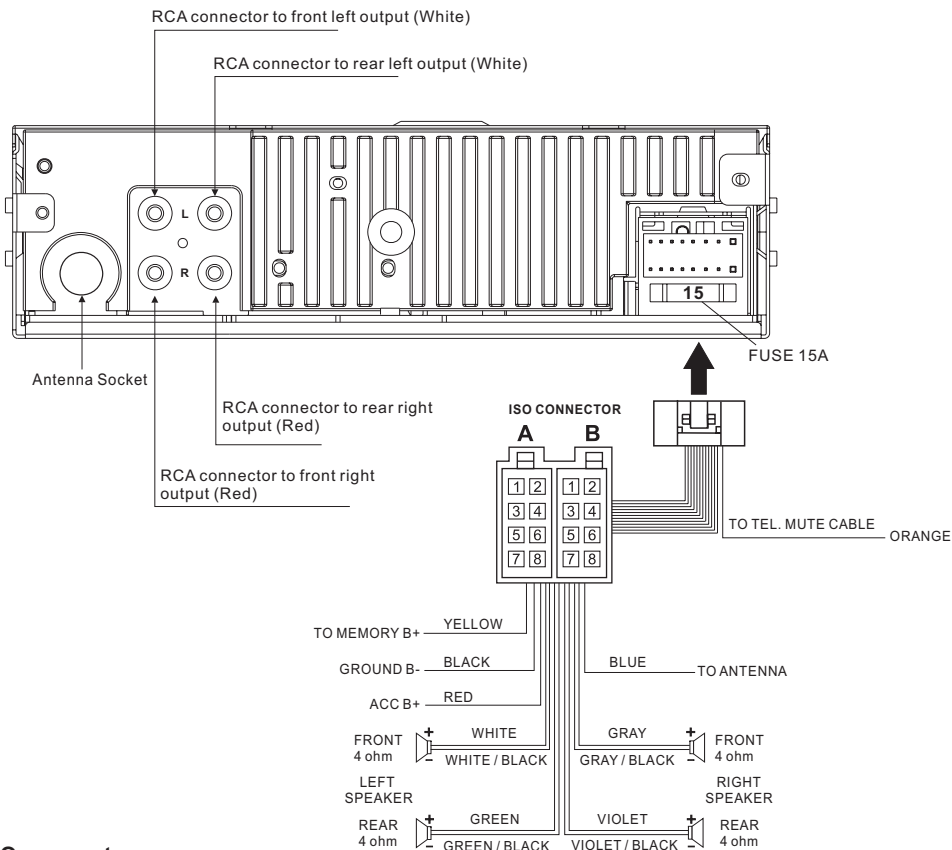
front panel

### TO ATTACH THE FRONT PANEL

To install the front panel, insert the panel into the housing and make sure the panel is properly installed. Otherwise, abnormality occurs on the display or some keys will not function properly.



# Wiring diagram



**ISO connector:**

**Part A:**

- A1: No Connect
- A2: No Connect
- A3: No Connect
- A4: Battery B+ (Yellow)
- A5: Antenna (Blue)
- A6: No Connect
- A7: Accessory (Red)
- A8: Ground B- (Black)

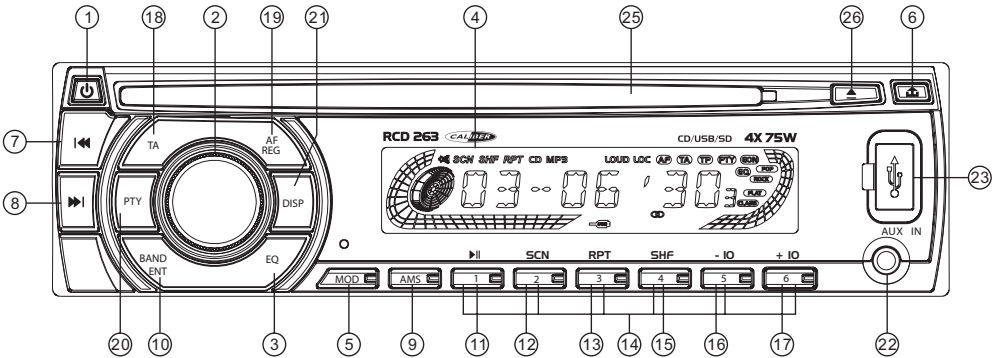
**Part B:**

- B1: Rear Right + (Violet)
- B2: Rear Right - (Violet/Black)
- B3: Front Right + (Gray)
- B4: Front Right - (Gray/Black)
- B5: Front Left + (White)
- B6: Front Left - (White/Black)
- B7: Rear Left + (Green)
- B8: Rear Left - (Green/Black)

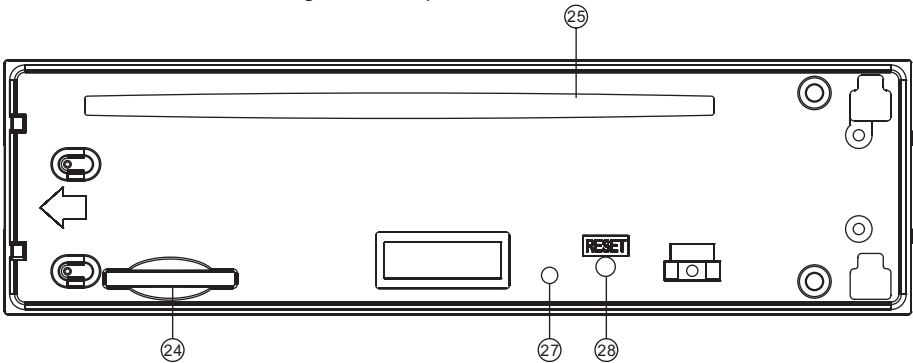
# Operations

## Location and function of controls

### Front panel:



### The car radio after removing the front panel:



### Descriptions of Function Controls

- (1) Power on/off Button (⏻), Mute Button
- (2) Volume Control, Audio/Menu Selector (SEL)
- (3) Preset Equalizer (EQ) Button
- (4) LCD display
- (5) Mode Button
- (6) Release (⏏) Button
- (7) DOWN (⏮) Button  
Tune down, Seek down, previous track, fast reverse
- (8) UP (⏭) Button  
Tune up, Seek up, next track, fast forward
- (9) AMS(Auto-storage/ Preset memory Scan) Button, MP3 Search Button
- (10) BAND, ENTER Button (BAND/ENT)
- (11) Playing/Pausing (⏮⏭) Button
- (12) Scan(SCN) Playback Button
- (13) Repeat(RPT) Playback Button
- (14) Preset Station (1-6) Buttons
- (15) Random(SHF) Playback Button
- (16) Playing the -10 track Button
- (17) Playing the +10 track Button
- (18) TA(Traffic Announcement) Button
- (19) AF(List of Alternative Frequencies), REG(Regional Program) Button
- (20) PTY(Program Type) Button
- (21) DISP(Display) Button
- (22) AUX Input Jack
- (23) USB Port
- (24) SD/MMC Memory Card Slot
- (25) Disc slot
- (26) Eject (▲) key
- (27) Anti-theft LED Indicator
- (28) Reset Button

## General Operations

### Reset the unit

When operating the unit for the first time, after replacing the car battery or changing the connections, you must reset the unit.

1. Turn off the unit power.
2. Press the **REL** (▲) button to remove the front panel, then press the **RESET** button with a ballpoint pen or similar object to restart the unit.

### Power on/off

In power off mode, switch on the unit by pressing any button except the **REL** (▲) button. When the system is on, press and hold the **POWER** on/off button (⏻) for about 2 seconds to turn off the unit.

### Sound adjustment

- Rotate the volume control to adjust volume level.

- Press the **SEL** button short and repeatedly to select the the sound setting that you would like to adjust: volume, bass, treble, balance and fader.

- Rotate the volume control to adjust level of the selected sound mode:

- VOL:00,01 ~ 44,45
- BAS / TRE: -7, -6 ~, 0, ~, +6, +7,
- BAL: 7R, 6R, ~, 0, ~, 6L, 7L
- FAD: 7R, 6R, ~, 0, ~, 6F, 7F
- Loudness: LOUD ON / OFF
- Equalizer mode: DSP OFF, POP, ROCK, CLASSIC, FLAT

### **Note:**

1. In each mode, when the unit has not been adjusted for about 2 seconds, the current setting will be saved and it returns to the previous mode.

2. When using preset EQ modes, you cannot have access to Bass and Treble settings.

### System menu

Press the **SEL** button and hold for more than 2 seconds to access system setup menu mode, then press the **SEL** button momentarily to select the menu items in sequence as follows:

“TA SEEK or TA ALARM” → “PI SOUND or PI MUTE” → “RETUNE L or RETUNE S” →

“MASK DPI or MASK ALL” → “TAVOL 17” (traffic announcement volume) → “CLOCK 24 or 12” (Clock format) → “BEEP ON/OFF” (beep sound on/off) → EXIT

After selecting the desired menu item, rotate the volume control to select the mode of the selected item.

“**TA SEEK or TA ALARM**” (search for traffic announcement/traffic announcement alarm)

#### **- TA SEEK mode:**

When a newly tuned station does not receive traffic information for 5 seconds, the radio retunes to next station which has a different PI and which broadcasts traffic information.

If, during the chosen retune time (30 seconds for a short retune or 90 seconds for a long retune), the unit can no longer receive the current station which was broadcasting traffic information, it will start to search for the next station that has the same PI.

If no station with the same PI is found after one search cycle, the radio will search for the next station broadcasting traffic announcements.

#### **- TA ALARM mode:**

Select this mode to switch off the automatic retune. The radio will bring up a warning message “NO TP, TA” on the LCD display and emit a double beep sound (ALARM). If a newly tuned station does not broadcast any traffic information for 5 seconds, a beep can be heard.

If the unit can no longer receive the current station during the chosen retune time, a beep sound can also be heard.

If a newly tuned station has no RDS signal, the message “PI SEEK” disappears.

**Note:** TP: Traffic Program.

PI: Program Identification.

#### **“PI SOUND or PI MUTE”:**

In some regions, there is a possibility of having two different stations with the same frequency but different PI codes.

If “PI SOUND” is selected, radio will switch to the new station with a different PI for a few seconds before switching back to the current station that was broadcast initially. If “PI MUTE” is selected, the radio will not broadcast the new station that is received.



**“RETUNE L or RETUNE S”** (long/short retune):

This function allows you to set the duration after which the automatic search for traffic information or a station with an identical PI should be carried out.

- **RETUNE L mode:** The automatic search will take place after 90 seconds.

- **RETUNE S mode:** The automatic search will take place after 30 seconds.

**“MASK DPI or MASK ALL”:**

Any alternative frequency (AF) with a different PI or which does not broadcast an RDS signal that is strong enough will normally be masked when the PI is checked while the unit searches for an alternative frequency. The unit will not automatically go to this type of alternative frequency. It is possible that an AF which does not broadcast a strong enough RDS signal is a valid AF, but that the car radio wrongly considers it as a station with a different PI due to interference. For this reason, the unit offers the user an option (MASK DPI) which does not mask the AFs which do not broadcast a strong RDS signal.

- **MASK DPI mode:**

Only masks the alternative frequencies with a different PI.

- **MASK ALL mode:**

Masks alternative frequencies with a strong signal that have a different PI or which do not emit a strong enough RDS signal.

**“TAVOL 17”**(Traffic announcement volume):

This function allows you to define the minimum volume for the traffic announcements. The adjustable range is 0~45. The defaulted value is 17. Rotate the volume control to adjust the volume of the traffic announcements.

**“CLOCK 24 or CLOCK 12”** (Clock format):

This unit is equipped with two types of clock display formats, 24 hours and 12 hours. Rotate the volume control to choose 24 hours format or 12 hours format.

**“BEEP ON/OFF”** (beep sound on/off):

The car audio device is equipped with confirmation beep tone.

- **Beep on:** The confirmation beep sound will be heard when any button is pressed.

- **Beep off:** The confirmation beep sound is


disabled.

Rotate the volume control to select switch on or off the confirmation beep sound.

### **Preset Equalizer**

Press the **EQ** button to select one of the EQ modes with following sequence: DSP OFF → CLASSIC → ROCK → POP → FLAT .

### **Mute on/off**

In power on mode, briefly press the **MUTE** button (  ) to toggle mute on or off. The muted state will be also released when the Volume control button is used.

### **To select playback mode**

In power on mode, press the **MODE** button repeatedly to select the different modes as the following sequence: TUNER, DISC(with a CD/MP3/WMA disc inside the disc slot), USB(with USB device inserted), SD/MMC (with SD/MMC card inserted) or AUX IN (auxiliary input) mode.

### **Last position memory feature**

- During disc, USB, SD/MMC card playback, if you turn off the unit and then switch on it, the unit will resume playing from the point that it was interrupted.

-During disc, USB, SD/MMC card playback, if you switch to other mode, and then return the previous mode again, the unit will resume playing from the point that it was interrupted.

### **Information display**

Press the **DISP** button repeatedly to display as follows:

- **When receiving an RDS station:**

In radio mode:

CT -> FREQUENCY -> PS(Name of the station) -> PTY(Type of program) ->

In CDP/USB/SD/MMC mode:

CT -> FREQUENCY -> PS(Name of the station) -> PTY(Type of program) -> Track or file number and Running time ->

### **Note:**

If the unit does not receive any PTY information, the character “PTY NONE” will be shown on the LCD display.

- **When receiving a non RDS station:**

In radio mode:

CT -> FREQUENCY -> PTY NONE->

In CDP/USB/SD mode:

CT -> FREQUENCY -> PTY NONE ->

Track or file number and Running time

**Note:** The selected information is displayed for 5 seconds, then the radio goes back to the first display mode after 5 seconds.

### **Clock display and adjustment**

- To view the current time:

Press the **DISP** button, the current time will be shown on the LCD display for 5 seconds and then revert to the previous display mode.

- To adjust the time:

Press and hold the **DISP** button until the hour blinks, then rotate the volume knob to adjust the hour; Then press the **DISP** button briefly, the minute will blink, and rotate the volume knob to adjust minute.

### **TEL Mute**

The audio system automatically mutes whenever a call comes in.

#### **Note:**

The function will not work if a cable is not connected to the car phone.

#### **1. When a call comes in**

When a call is received, "TEL MUTE" will be shown on the LCD display and all the unit functions are temporarily interrupted.

#### **2. When the call ends**

When hang up the phone, "TEL MUTE" disappears on the LCD display.

The unit returns to the previous state and the previous volume level automatically.

### **ESP Function**

This CD/MP3 car radio has the electronic shockproof feature. So that if the unit skips due to rough road conditions, the playback of the disc will be uninterrupted.

### **Anti-theft LED Indicator**

Designed as a theft deterrent, the red LED will flash when the unit is turned off and face plate removed.

## **Radio operations**

### **To select a radio band**

In radio mode, press the **BAND** button repeatedly to select a radio broadcasting band you would like to hear. The 3 FM bands will be changed cyclically through the tuning bands: ->FM 1-> FM 2 -> FM 3 ->.

### **Auto/ Manual tuning**

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

Briefly press the **▶▶** or **◀◀** button, the auto search will start. It will search upward or downward for the strong signal radio station within the current band. In auto tuning, press the **▶▶** or **◀◀** button to stop tuning. Pressing and holding the **▶▶** or **◀◀** button for about 2 seconds until "MANUAL" appears on LCD display, it will change into manual search mode.

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

Press the **▶▶** or **◀◀** button short and repeatedly to manually search upward or downward step by step for the desired radio station within the current band.

In manual search process, if the both buttons haven't been pressed within 5 seconds, it will change into automatic search mode automatically, "AUTO" will be visible on the LCD display.

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

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

#### **- To store a station:**

- Select a band (if needed)
- Select a station by **▶▶** or **◀◀** button.
- Press and hold a preset button (1-6) which you want to store the station for at least 2 seconds, the current station will be saved into the relevant preset memory bank. When a RDS station is being stored, the relevant PI, PS, AF list are stored.

#### **- To recall a station:**

- Select a band (if needed).
- Press a preset button (1-6) briefly to recall the stored station. In case of RDS mode, the strongest AF is selected after AF searching.

### **Auto store / Preset scan**

#### **- Preset scan:**

Short pressing the **AMS** button, the radio searches for each preset station that saved in the memories of the current band. If the field strength level is more than the threshold level, the radio will hold at this preset station for 5 seconds with sound output, then go to next station, finally the radio will play at the preset station where scanning started. Press the **AMS** again to stop preset scanning.

**- Auto store:**

Press the **AMS** button for more than 2 seconds to start auto store. The radio will scan from the current frequency, and automatically store the 6 strongest stations into the preset memories. When auto store is complete, the radio will start preset scan to the stored 6 station.

**RDS (Radio Data System) operations**

**Setting Alternative Frequencies**

Press the **AF/REG** button short toggles AF mode on or off. There are 3 state the “AF” icon on the LCD display:

**Icon “AF” off:** AF switching mode off.

**Icon “AF” on:** AF switching mode on, and has RDS information.

**Icon “AF” blink:** AF switching mode on, but RDS information is not received yet.

When AF switching mode is selected, the radio checks the signal strength of the AF all the time. The interval of checking time of each AFs depends on the signal strength of current station, from a few minute for strong station to few seconds for weak station. Every time that new AF is stronger than current station, it switches over to that frequency for very short time. Because the mute time of AF switching or checking time is very short, it is almost inaudible in case of normal program. During FM mode, when AF is on, manual store, Auto store/preset scan function can only receive and save RDS program.

**Regional Program Operation**

Press the **AF/REG** button for longer 2 seconds to toggle on or off region mode . Some broadcasting stations change their program from normal broadcasting to regional broadcasting for a certain time period.

When regional mode on, the radio accepts RDS stations with regional variants, the current listening program remains unchanged; When regional mode off, the radio ignores regional variants, it allows the reception moved to the regional station.

**Using PTY to select a program**

The PTY function allows you to search for a particular program type.

To select a program type, press the **PTY** button. “POP M” (pop music) or “NEWS” will appear on the LCD display. You can then select a program type by using the preset buttons **1 to 6**.

The program types are divided into two groups: the music PTY group and the speech PTY group:

**HINT:**

When you choose MUSIC PTY GROUP, the preset number buttons 1-6 correspond to the following programs:

Preset number	Music PTY Group
1	POP M, ROCK M
2	EASY M, LIGHT M
3	CLASSICS, OTHER M
4	JAZZ, COUNTRY
5	NATION M (national music), OLDIES
6	FOLK M

When you select the **SPEECH PTY GROUP**, the preset numbered buttons is shared as follows:

Preset number	Speech PTY Group
1	NEWS, AFFAIRS, INFO
2	SPORT, EDUCATE, DRAMA
3	CULTURE, SCIENCE, VARIED
4	WEATHER, FINANCE, CHILDREN
5	SOCIAL, RELIGION, PHONE IN
6	TRAVEL, LEISURE, DOCUMENT

When you select a program type, the radio will search for a station broadcasting this type of program. The radio will stop searching if it finds the relevant program type. If the radio does not find a station broadcasting the type of program selected, the character “PTY NONE” will be shown on the LCD display and the previous station is broadcast.

## Listening to Traffic Announcement

It is possible to program the car radio so that it interrupts disc mode, radio mode, AUX mode or the current radio station when a traffic announcement is broadcast.

Briefly press the **TA** button to switch TA mode on or off.

When **TA** mode is on and a traffic announcement is transmitted:

- When the car radio was in CD (MP3/WMA), USB/SD/MMC or AUX IN mode, it will switch temporarily to radio mode.
- Temporary switch over to an EON linked station when EON detects a traffic announcement on that other program.
- If the volume level was under the threshold point, it will be raised to the threshold point.
- When **TA** mode is on, segment “**TA**” is turned on.
- When a TP station is received, segment “**TP**” is turned on.

## TA interruption function

The current traffic announcement is cancelled by pressing this key. But the **TA** mode will not be off.

## **The RDS data are the PI, PS, TP, PTY, TA and AF data.**

**PI** (Program identification):

Code for identifying the radio station.

**PS** (Program service):

Name of the radio station.

**PTY** (Program type):

Type of program such as news, Pop music, sports etc.

**TP** (Traffic program):

Code indicating a station broadcasting traffic information.

**TA** (Traffic announcement):

Function allowing the broadcasting of traffic information.

**AF** (Alternative frequencies):

Function allowing an automatic search for the best alternative frequency available.

## **CD/MP3/WMA disc operations**

### Loading/Removing a Disc

1. Turn the power on.
2. If there is no CD/MP3 disc inserted in the player, gently insert a disc into the disc slot with the printed side facing upward, the player will play the disc automatically. If a CD/MP3 disc is already inserted in the player, press **MODE** button to switch to the CD/MP3 mode.
3. To eject the disc, press the **EJECT** (▲) button.

### Playing/Pausing

In media (CD/MP3/WMA /USB/SD/ MMC) playback mode, press the ►|| button to interrupt the play back.  
Press again to resume the playback.

### Playing the previous/ next track

- In media (CD/MP3/WMA /USB/SD/ MMC) playback mode, briefly press the ►|| button to play the next track.

The unit will automatically play the first track on the current disc when the last track of the current disc has been played.

- When played time of the current track or file is less than 5 seconds, briefly press the ◀◀ button to play the previous track.

- When played time is more than 5 seconds, press the ◀◀ button to play the current track from the beginning of the current track or file.

### Playing forward and backward

In CD or MP3/WMA file playback process, press and hold the ►|| or ◀◀ button to fast forward or fast reverse. Release the buttons when the desired location is found, and normal playback starts.

### Playing the 10 track up or down

In CD or MP3/WMA file playback process, press the 5 (-10), 6 (+10) button to play the previous or next 10 track or file.

### Scanning playback

You can play the beginning of each track or file for 10 seconds in sequence.

In CD or MP3/WMA file playback, briefly press the **SCN** button to play the first 10 seconds segment of each track of file. The word “SCN” appears on the LCD display. Press again to stop scanning and play the currently selected track or file.

### **Repeat playback**

In CD or MP3/WMA file playback, briefly press the **RPT** button to continuously play the current track. The word "RPT" appears on the LCD display. Press again to stop repeat playback and resume normal playback.

### **Shuffle playback**

In CD or MP3/WMA file playback, briefly press the **SHF** button to play all tracks or files in random sequence. The word "SHF" appears on the LCD display. Press again to cancel random playing.

### **Select the track or file for playback in MP3 or WMA format**

You can access 3 different types of track search modes for MP3/WMA format:

- Searching by track or file number →
- Searching by folder number →
- Searching by track or file name →
- Exit

#### **Searching by track or file number:**

a) In playback of files with MP3 or WMA format, press the **AMS** button once to access the track or file number searching mode which allow you to quickly find a specific MP3 / WMA track or file by its serial number, and the "T001..XXX" will be shown on the LCD display.

b) You can select a track or file directly, after entering track or file number search mode.

Rotate the volume control to select the number of your favorite file with high speed. Finally press **BAND(ENTER)** button to confirm and play the selected file.

#### **Searching by folder number:**

The folder search mode will allow you to quickly find an MP3 track or file under a specific group folder, and the "F001 / XXX" will be shown on the LCD display.

a) In playback of file with MP3 or WMA format, press the **AMS** button twice to access the folder number search mode.

b) Rotate the volume control to change and select your desired folder (If there are no root Folder in the disc, the LCD will display "ROOT")

c) Once the folder has been selected, press the **BAND(ENTER)** button to start play, the first the track or file of the selected folder will be played.

#### **Searching by track or file name:**

This track or file name search function requires only the first few character as search keyword, it will allow you to quickly find an MP3 title by its name.

a) To access this feature, press the **AMS** button three times, the "A\*\*\*\*\*" will be shown on the LCD display.

b) Then change the first character (A) by rotating the volume control. The character will be changed from "A" through "Z" and "0" through "9" in the order of A~Z and 0~9. Press the **SEL** button to confirm the character entered and advance to the next character.

c) When mached files was found, rotate the volume control or press the **▶▶ / ◀◀** button to change and select your desired file among these files with same search keyword, then press the **BAND(ENTER)** button to start play the searched file. If the file was not found, "NO MATCH" message will be visible on the display.

#### **ID3 information of MP3 file**

In playback of discs with MP3 format, the folder name, file name, title, artist and album information will be scrolling on the LCD display automatically.

#### **Note:**

As long as the current playing MP3 music contains relevant ID3 tag information in version 1.0/2.0 format, the 3 items underlined above will be scrolling on the LCD display, otherwise, they will not appear.

### **Mixed-mode CD operations**

If available, the unit can play the mixed-mode CD disc (the disc contains both CD audio tracks and MP3/WMA files).

Under a default mode, the unit will first play all the MP3/WMA formatted songs and than play the CD formatted songs.

## USB operations

The unit is equipped with a USB port on the front panel of the unit, you can connect a USB stick through the USB port.

### Using the USB stick:

When you insert a USB stick through the port, the unit will search the MP3 files and start to play it automatically.

If insert a disc into the disc slot while read the file in the USB device, the unit will playing the disc first. If you want to play the file in the USB device, press the **MODE** button to switch to USB mode.

### Note:

- Use the USB adaptor cable, if necessary.
- The operations of playing MP3/WMA files in the USB is the same as the MP3/WMA operation described in the CD/MP3/WMA disc operations.
- When reading the USB stick, please don't touch or remove it.
- If following the instruction above, the unit can't read the file in the USB stick, please check if the device is in good condition, or take it out then insert it into the USB port once more.
- The main unit can only support the standard USB-memory device.
- USB MP3 player is not a standard which means different brand name or different models have their own standard. So this product cannot support all MP3 players.
- When connecting an MP3 player and there is a normal battery in the player (non rechargeable battery), you should remove the battery from the MP3 player and then connect it to the USB port. Otherwise, it may cause battery burst.
- When reading a USB device, be sure not to remove it from the USB port (change mode beforehand).

## SD/MMC card operations

This unit equipped with you a memory card slot.

### Using the SD/MMC card:

When you insert a SD/MMC card into the memory card slot, the player will reading the SD/MMC card automatically.

If insert a disc into the disc slot while read the SD/MMC card, the unit will playing the disc. If you want to play the file in the SD/MMC card, press the **MODE** button to switch to SD/MMC mode.

SD/MMC memory card playing operation is the same with the MP3 operation described.

### Note:

- When reading the memory card, please don't touch or take out the card.
- If following the instruction above, the unit can't read the card, please check if the card is in good condition, or take out the card and then insert it into the card slot once more.

## Aux input operations

This car radio has an external auxiliary input jack, it is compatible with audio output from an MP3 music player.

So you can listen to sounds and music from external devices, if you have plugged such a player into the AUX IN jack. Press the **MODE** button to switch to the **AUX** mode on or off.

## Disc notes

### A. Notes on discs:

1. Attempting to use non-standard shape discs (e.g. square, star, and heart) may damage the unit. Be sure to use round shape CD discs only for this unit.
  2. Do not stick paper or tape, etc. onto the label side or the recording side of any discs, as it may cause a malfunction.
- Dirty, dusty, scratched and warped discs will cause a malfunction.

### B. Notes on CD-Rs (recordable CDs)/CD-RWs (rewritable CDs):

1. Be sure to use discs with following marks only for the unit to play:



2. The unit cannot play a CD-R and CD-RW that is not finalized. (Please refer to the manual of your CD-R/CD-RW recorder or CD-R/CD-RW software for more information on finalization process).
3. Depending on the recording status, conditions of the disc and the equipment used for the recording, some CD-Rs/CD-RWs may not be played on this unit (see \*1).

\*1: To have more reliable play back, please see following recommendations:

- a. Use CD-RWs with speed 1x to 4x and write with speed 1x to 2x.
- b. Use CD-Rs with speed 1x to 8x and write with speed 1x to 2x.
- c. Do not play a CD-RW which has been written more than 5 times.
- d. The car radio supports discs which comply with the ISO 9660 level 1 or level 2 format, or the Joliet or Romeo format.

### C. Notes on MP3 files

1. When naming a MP3 file, be sure the file name extension is 'MP3'.
2. For a non-MP3 file, even though the file name extension is 'MP3', the unit cannot recognize it.

### D. Handling and Cleaning

- Dirty, dusty, scratched and warped discs will cause malfunctions.
- Do not place stickers or make scratches on discs.

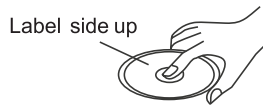
- Do not warp discs.
- A disc should always be kept in its case when not in use to prevent from damage.
- Do not place discs in the following places:
  1. Direct sunlight.
  2. Dirty, dusty and damp areas.
  3. Near car heaters.
  4. On the seats or dashboard.

### Disc Cleaning

Use a dry soft cloth to wipe the surface. If the disc is quite dirty, Use a soft cloth slightly moistures with isopropyl (rubbing) alcohol. Never use solvents such as benzene, thinner or conventional record cleaners as they may damage the surface of the disc.

### Note:

A disc may become somewhat scratched (although not enough to make it unusable) depending on the way it is handled and conditions in the usage environment. Note these scratches are not an indication of any problem with the player.



Do not touch the underside of the disc



Do not bend

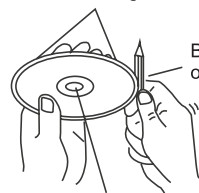


Wipe the disc from center toward the outside edge

### E. Precautions when using new discs

A new disc may have irregularities. It will sometimes be necessary to remove these rough edges in advance by using a ballpoint pen or pencil as shown in the illustration.

Rough spots on outside edge



Rough spots on inside edge

## Trouble shooting

The following chart will help in solving most problems that may occur. If you still have questions after going through the checklist, please consult your local customer service representative. Before going through this check list, refer the wiring and operating procedures.

Symptom	Cause	Solution
No power	The car ignition switch have not turn on.	If the power supply is connected to the car accessory circuits, but the engine is not moving, switch the ignition key to "ACC".
	The fuse has been blown.	Replace a new one.
Disc can not be loaded or ejected.	Presence of CD disc inside the player.	Remove the disc from the player, and insert a new one.
	Inserting the disc in reverse direction.	Insert the CD with the label facing upward.
	The surface of CD is extremely dirty or has been scraped.	Clean the disc or try to replace a new one.
	Temperature inside the car is too high.	Cool off or until the ambient temperature return to normal.
	Condensation	Leave the player off for an hour or so, and then try again.
No sound	Volume is in minimum.	Adjust volume to a desired level.
	The wiring is not properly connected.	Check wiring connection.
Sound skips	The installation angle is more than 30°.	Adjust the installation angle less than 30°.
	The surface of CD is extremely dirty or has been scraped.	Clean the disc or try to replace a new one.
The operation keys do not work	1. The built-in microcomputer is not operating properly due to noise.	1. Press the RESET button to restore the program.
	2. The front panel has not properly installed.	2. Fixed the front panel into its place.
No radio reception.	The antenna cable is not connected.	Insert the antenna cable firmly into the antenna socket of this CD player.
In automatic search mode the radio does not stop at a transmitting station.	The transmission signals are too weak.	Select a radio station manually.



## Specifications

### 1. GENERAL

#### Power Supply Requirements

DC 12 Volts, Negative Ground

#### Chassis Dimensions

178(W)x160(D)x 50(H) mm

#### Tone Controls

- Bass (at 100 Hz)  $\pm 10$  dB

- Treble (at 10 kHz)  $\pm 10$  dB

#### Maximum Output Power

4x75 watts

#### Current Drain

15 Ampere (max.)

### 2. CD PLAYER

#### Signal to Noise Ratio

> 55 dB

#### Channel Separation

> 40 dB

#### Frequency Response

20Hz - 20 KHz

#### Discs/files played

CD-DA, CD-R/RW/MP3/WMA

### 3. RADIO

#### FM

#### Frequency Coverage

87.5 - 108. 0 Mhz

#### IF

10.7 MHz

#### Sensitivity (S/N=30dB)

4 $\mu$ V

#### Signal to Noise Ratio

55dB(mono)

#### Stereo Separation

30 dB (65dBu, 1KHz)

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