

**RIPSPEED**  
Mobile Entertainment

**CMR-i4000**



**OWNER'S MANUAL**

## Safety Information

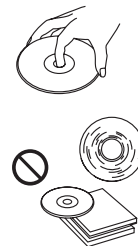
Thank you for purchasing the player. Please read this manual carefully before operating and reserve it for future reference.

### PRECAUTIONS

- Use only in a 12-volt DC negative-ground electrical system.
- Disconnect the vehicle's negative battery terminal while mounting and connecting the unit.
- 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 sounds (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 benzine 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 a 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.

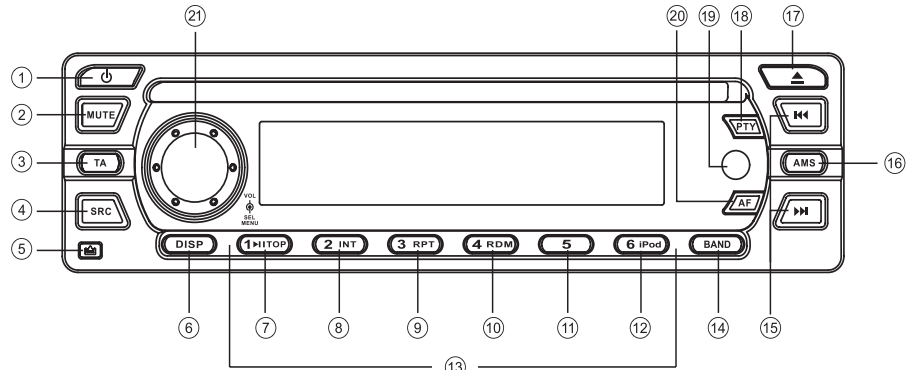
**\* In addition to ordinary CDs, this unit can playback a CD-R or CD-RW.**

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## Panel Controls

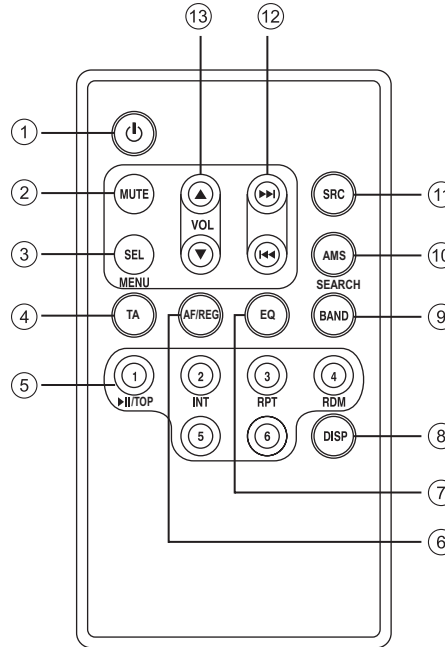
1. Power on/off
2. Mute
3. Traffic Announcements
4. Source switch
  - Radio
  - Disc play (when disc is in)
  - iPod (when iPod connected)
5. Panel release
6. -Time display/adjust (see page 6)
7. -Display switch
7. -Play/Pause
  - Top play (hold more than 2sec)
8. Intro play (10sec)
9. Track repeat play
10. Track random play
11. MP3 play mode
  - 10 tracks down (press briefly)
  - Folder down (hold more than 2 sec)
12. MP3 play mode
  - 10 tracks up (press briefly)
  - Folder up (hold more than 2 sec)
- iPod play mode
  - iPod menu
13. ① - ⑥ Radio and Satellite Preset:
  - Press to tune in a preset station .
  - Hold for more than 2 seconds to store station.
14. -Band Switch: FM1-FM2-FM3-MW1-MW2
  - MP3 ID3 Display switch:  
FOLDER-FILE-MUSIC-ARTIST- ALBUM
15. -Radio tune
  - Track seek
16. -Radio auto preset/Radio preset scan
  - MP3 track/file/character search.



17. Disc Eject
18. Program Type
19. Remote sensor
20. Alternative Frequency
21. -Rotate to adjust volume level.
  - Push to select BAS(Bass)/TRE(Treble)/BAL(Balance)/FAD(Fader)/VOL(Volume).
  - Push more than 2 seconds to Menu mode.

## Remote Control

1. -Power on/off
2. -Mute
3. -Push to select BAS(Bass)/TRE(Treble)/BAL (Balance)/FAD(Fader)/VOL(Volume), use Volume button to adjust level.  
-Push more than 2 seconds to menu mode.
4. Traffic Announcements
5. -Disc playback
  - Button 1: Play/Pause
    - Top play (hold more than 2sec)
  - Button 2: Intro play (10sec)
  - Button 3: Track Repeat Play
  - Button 4: Track Random Play
  - Button 5: MP3 play mode
    - 10 tracks down (press briefly)
    - Folder down (hold more than 2 sec)
  - Button 6: MP3 play mode
    - 10 tracks up (press briefly)
    - Folder up (hold more than 2 sec)
    - iPod play mode
    - iPod menu
- Radio and satellite preset ① - ⑥  
Press to tune in a preset station, hold for more than 2 seconds to store station.



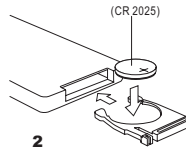
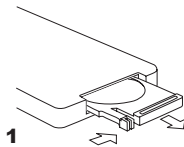
6. -Alternative Frequency  
-REG on/off
7. EQ: POP/ROCK/CLAS/FLAT/OFF
8. Display switch
9. -Band Switch:  
FM1-FM2-FM3-MW1-MW2  
-MP3 ID3 Display switch:  
FOLDER-FILE-MUSIC-ARTIST-ALBUM
10. AMS: Radio auto preset/Radio preset scan
11. Source switch  
-Radio  
-Disc play (when disc is in)  
-iPod (when iPod connected)
12. -Radio Tune  
-Track Seek
13. -Volume

## Remote Control

### Replacing the lithium battery of remote control unit.

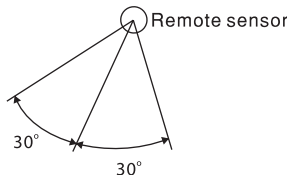
When the range of the operation of the card remote control becomes short or no functions while operating, replace the battery with a new lithium battery. Make sure the battery Polarity replacement is correct.

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.



### Remote control operating range

The remote control can operate within a distance of 3~5m.



## BUTTON TIPS

### AMS : Auto memory store/Auto preset scan

Press AMS button to scan the preset station 1-6 for 5 seconds each.

Press and hold 2 seconds, the 6 strongest available station will be automatically saved in the memory of preset button 1-6 .



### BUTTON SKIP

Radio : Press either side of the button to tune in the station. Tuning will automatically activate and stop when signals of the next station are received.

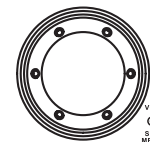
Hold more than 2 seconds to tune by step manually. Hold any of 1-6 preset button more than 2 seconds, the current station will be saved in the memory.

Disc playback : Press briefly either side of the button to go to the next or previous track. Hold it to fast forward or reverse back the track.

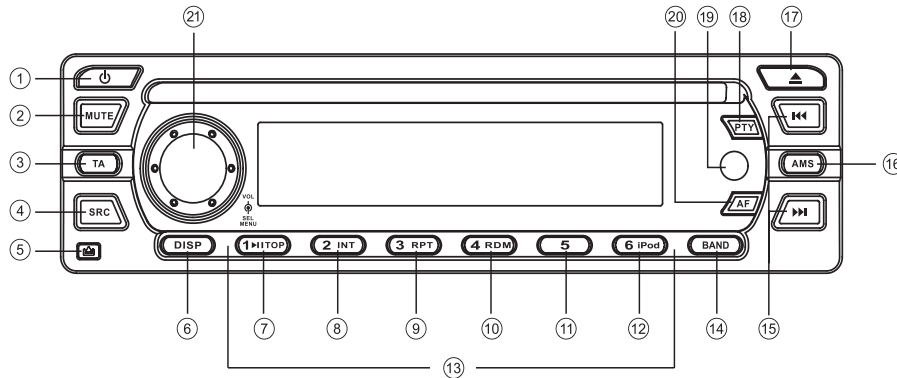


### SET CLOCK

Hold DISP button more than 2 seconds, time display blinks. Rotate the knob clockwise to set the hours or counterclockwise to set the minutes, press DISP button again to exit the clock setting.



# iPod Operation



## Accessing iPod Mode

Press the SRC button to change to iPod playback mode.

## Selecting a Track

Press the TUNE/TRACK button to select a track.

Press and hold the TUNE/TRACK button to fast forward or fast reverse through the track.

## Display Modes

Press the DISP button to change the ID3 display to the following options in the order listed.

- Track number and elapsed playing time
- Song name
- Artist name
- Album name

If the selected album name, artist, or title exceeds eleven characters, the display information will scroll upon selection.

## iPod Category Search

Press the 6 button to enter the iPod menu. Turn the rotary encoder to choose from the following categories:

- PLAYLIST
- ARTIST
- ALBUM
- GENRE
- SONG
- COMPOSER

Press the MENU button to select an option. At any point, you can press the 6 button to return to the previous option.

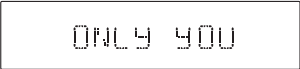
Some search categories require multiple selections before accessing a track, depending on the file structure on your iPod and availability of items in a particular search category. For example, after selecting GENRE>ARTIST>ALBUM>SONG before accessing the desired track. Continue using the rotary encoder/MENU button until you locate the track you would like to play.

## MP3 Playback

While playing MP3 MUSIC, the folder/file name and ID3 tag (Song title, Album and Artist) can entirely show in the LCD.

Press the DISP to choose ID3 informations for display as follows:

Elapsed playing time & Track number → Folder name → File name → Music title → Artist name → Album title




ONLY YOU

## MP3 Track search

Press AMS button to select "TRK SCH" mode.

Press the knob and LCD display will show "TRK 001".

Rotate the knob to select the first digit and press the knob to confirm, rotate the knob to select the tens digit and press the knob to confirm, rotate the knob to select the hundreds digit and press the knob to confirm, press the knob again to play the track.



TRK SCH

## MP3 File search

Press AMS button twice to select "FILE-SCH" mode, press the knob to enter, rotate the knob to select folder.

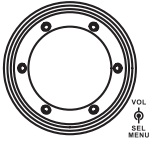
To play songs of the current folder: Press the knob to display the first track.

To play a desired track: Rotate the knob to choose the track, press the knob again to play the track.

## MP3 Playback(continued)

### MP3 Folder Search and Character Search

AMS



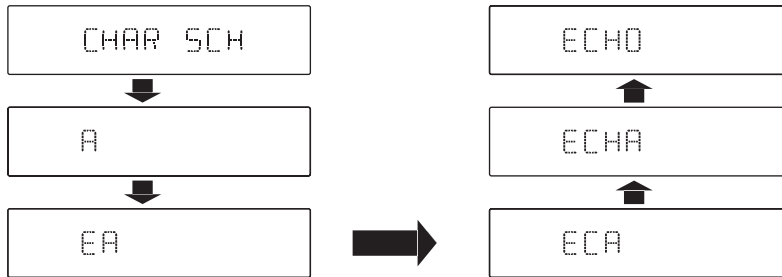
Press AMS button three times to select "FOLD-SCH" mode and four times to select "CHAR-SCH" mode. Press the knob and "A" displayed.

If you press the knob more than 2 seconds will search a track with the letter " A" . If the track found, the track name will displayed, then press the knob to play. If the track no found, the "NO MATCH" displays in LCD.

If you want to select a track name beginning with a different letter. rotate the knob to select a letter, and press the knob to confirm, then "A" flashes at the next place, select 2nd and other character of the desired track name as steps above.

Press the knob more than 2 seconds to search your desired track.

For example: To search character "ECHO".



## MP3 Overview

### Note on MP3

- MP3 is short for MPEG Audio Layer 3 and refers to an audio compression technology standard.
- 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 the method of packet write.
- 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 level is 8, including the root directory. Maximum number of files is 999 and folders per disc is 1000.
- The unit may not play tracks in the order of Track numbers.
- The unit plays only the audio tracks if a disc contains both audio tracks and MP3 files.
- When playing a disc of 8k bps or VBR\*, the elapsed playing time in the display window will not be correct and also the intro play may not function properly. \*VBR: Variable Bit Rate

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

- To enjoy high quality sound, we recommend converting to 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 MP3 CD-R or CD-RW is burned that it is formatted as a data disc and NOT as an audio disc.
- You should not write non-MP3 files or unneeded folders along with MP3 files on the disc otherwise it takes a long time until the unit starts to play MP3 files.
- 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.
- Up to 16 characters are displayed for the name of an Album or a track. ID3 TAG version 1.x is required.
- Note that the unit may not play Tracks in the order that you wrote them to the disc.

## RDS ( Radio Data System )

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

### 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:** Press AF button briefly to switch AF mode on and off.

AF indication on LCD will flash until RDS information is received.

During FM mode when AF is on, radio seek, scan and AMS function can only receive and save RDS program.

### CT Service(Clock Time)

When receiving a RDS station, the CT(Clock Time) service automatically adjusts the time.

NO CT is display in areas where CT service is not available.

### 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: 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.



TRAFFIC

### EON ( Enhanced Other Networks )

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

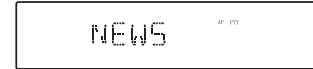
TA: Traffic information can be received from the current station or stations in other network.

AF: The frequency list of preset RDS stations 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.

# RDS ( Radio Data System )

## PTY Reception ( Program Type )

RDS FM stations provide a program type identification signal.  
 Example: news, rock, info, sport, etc.



**PTY Mode:** Press PTY to turn on the Program Type reception, the previous PTY type is shown. Press PTY once again to enter the MUSIC type or press twice to enter the SPEECH type, then 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.

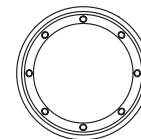
**PTY Type Preset:** Press PTY once to enter the MUSIC type or press PTY twice to enter the SPEECH type. Then use function 1-6 to select the desired program type.

PRESET NO .	MUSIC TYPE	SPEECH TYPE
1	POP M	NEWS
	ROCK M	AFFAIRS
2	EASY M	INFO
	LIGHT M	SPORT
		EDUCATE
3	CLASSICS	DRAMA
	OTHER M	CULTURE
		SCIENCE
4	JAZZ M	VARIED
	COUNTRY	WEATHER
		FINANCE
5	NATIONAL M	CHILDREN
	OLDIES M	SOCIAL
		RELIGION
6	FOLK M	PHONE IN
		TRAVEL
		LEISURE
		DOCUMENT

## Menu Function

Press the knob more than 2 seconds to enter menu mode, then each press changes the mode as follows:

TA mode → MASK mode → RETUNE mode → DSP mode → LOUD ON / OFF mode → WOOF ON / OFF mode →  
VOL mode → BEEP ON/OFF mode → STEREO/MONO mode(only in tuner mode) → LOCAL / DX mode(only in tuner mode)



### TA mode

Rotate the knob to choose TA ALARM or TA SEEK mode, When TA is turned on and no traffic program identification code has been received during the specified time, no TA/TP is displayed and according to the MENU SELECT, alarm is set off, or TA SEEK is activated.

TA ALARM mode: NO TA/TP is displayed and alarm is set off.

TA SEEK mode: TA SEEK is activated.

### MASK mode

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

MASK DPI mode: Only the 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.

### RETUNE mode

RETUNE mode: Rotate the control 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.

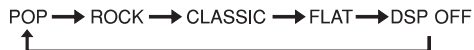
RETUNE-L: long, TA SEEK retune interval is 180 seconds.

Remark: RETUNE mode functions for TA during TA SEEK mode

## RDS Menu Function

### DSP mode

Rotate the knob to choose DSP sound effect:



### LOUD ON/OFF mode

Rotate the knob to choose loudness on or off.

### WOOF ON/OFF mode

Rotate the knob to choose Sub-woofer on or off.

### VOL LAST / ADJUST mode

Rotate the knob to choose VOL LAST, the turn-on volume level is the volume level of latest power off.

Rotate the knob to choose VOL A DJ, then press the "+" button or the "-" button to set the turn-on volume level.

### BEEP ON/OFF mode

Rotate the knob to choose beep sound on or off.

### STEREO/MONO mode

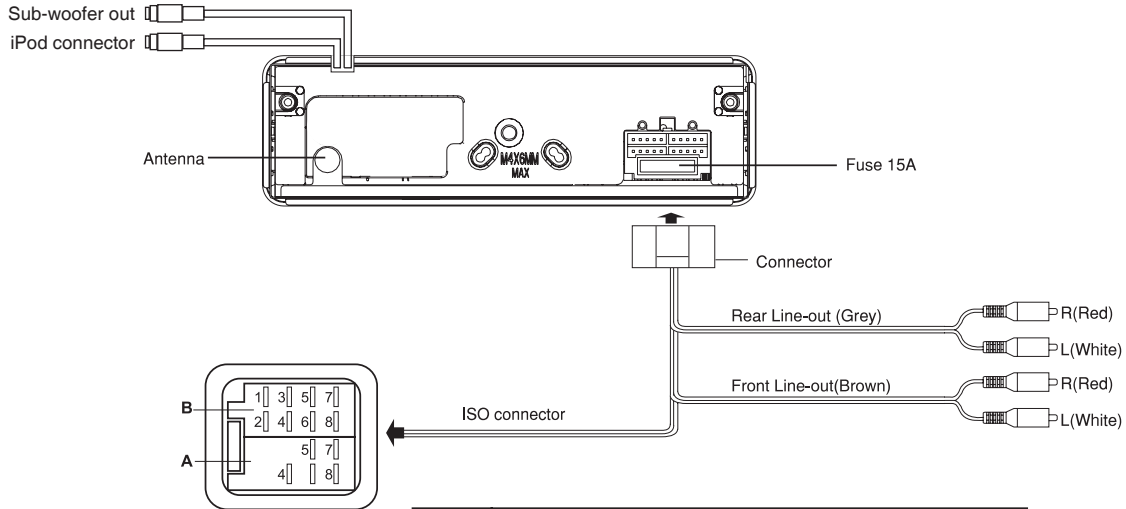
Rotate the knob to select FM stereo or mono.

### LOCAL/DX mode

Rotate the knob to select radio receive range to local or distance.

# Electrical Connections

## Wiring Diagram



LOCATION	FUNCTION	
	Connector A	Connector B
1		Rear Right(+)--Purple
2		Rear Right(--Purple/Black Stripe
3		Front Right(+)--Grey
4	ACC+/red	Front Right(--Grey/Black Stripe
5	Auto Antenna/blue	Front Left(+)--White
6		Front Left(--White/Black Stripe
7	Battery 12V (+)/yellow	Rear Left(+)--Green
8	Ground/black	Rear Left(--Green/Black Stripe

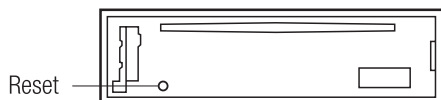
# Installation Guide

## Installation Procedures

First complete the electrical connections, and then check them for correctness.

### Reset

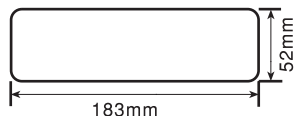
Press the **Reset** button with a pointed object to reset the unit to the original status.



**Note: Press the RESET button with ease the clock setting and stored stations**

**Important:** Remove these two screws before installation. Otherwise, the CD Player will not work.

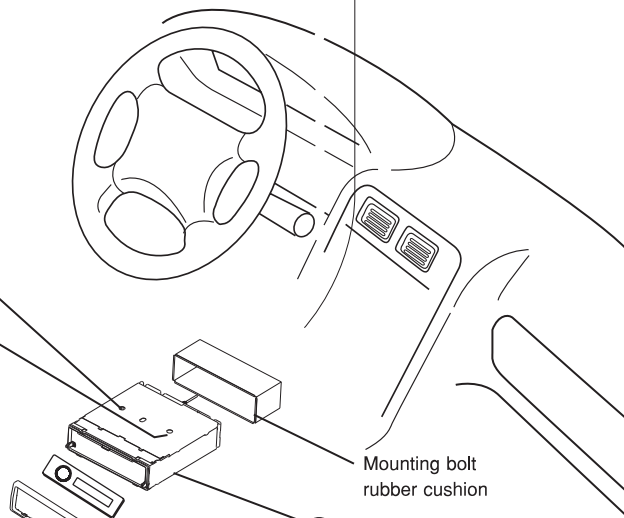
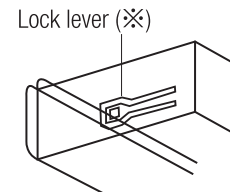
### Installation Opening



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

- 1** Insert 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.

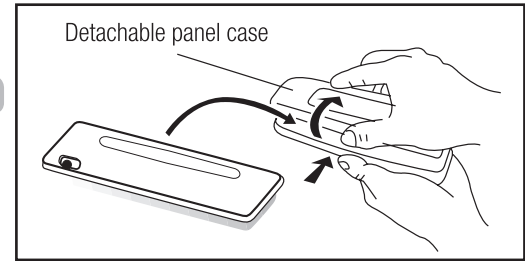
Mounting bolt  
rubber cushion

## Anti-Theft System

This unit is equipped with a detachable panel. Removing this panel makes the radio totally inoperable.

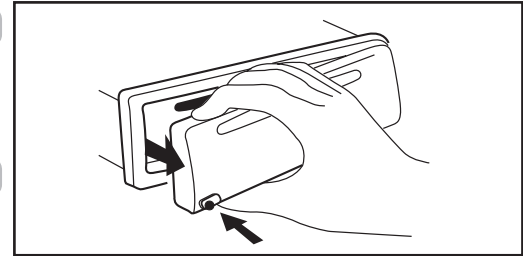
### Place the Detachable Panel into Case

1. Switch off the power of the unit.
2. Remove the detachable panel.
3. Gently press the button of the case and open the cover. Place the panel into the case and take it with you when you leave the car.



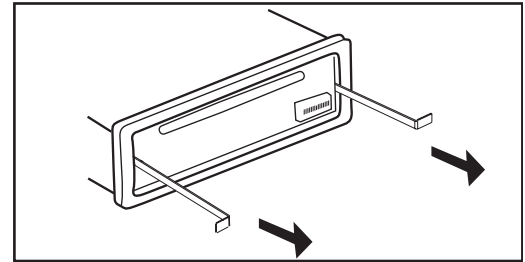
### Install Detachable panel

1. Fix right part of face plate in the right part of panel slot of the unit.
2. Press down the left side of the face plate until it clicks into the panel slot of the unit.



### Remove the unit switch off the power of the unit.

1. Remove the panel and the trimplate.
2. Insert both L-Keys into the 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.**

**Check volume or mute on / off.**

If the above solutions cannot help, **Press the RESET button.**

### 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.**

### Radio

#### Noise in broadcasts.

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.

# Specifications

## General

Power supply:	12V DC(11V-16V) Test voltage 14.4V, negative ground
Maximum power output:	45Wx4 channels
Continuous power output:	24Wx4 channels (4Ω, 10% T.H.D.)
Suitable speaker impedance:	4-8 ohm
Pre-Amp output voltage:	2.0V (CD play mode: 1KHz, 0 dB, 10 KΩ load)
Fuse:	15A
Dimensions(WxHxD):	178x50x162mm
Weight:	1.7kg
Sub-woofer out:	2.0V

## FM Stereo Radio

Frequency range:	87.5-108.0MHz (EUROPE MODE) 87.5-107.9MHz (USA MODE)
Usable sensitivity:	8dBμ
Quieting sensitivity(S/N=50dB):	12dBμ
Frequency response:	30Hz-15kHz
Stereo separation:	30dB(1kHz)
Image response ratio:	50dB
IF response ratio:	70dB
Signal/noise ratio:	55dB

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

## MW(AM) Radio

Frequency range:	522-1620KHz (EUROPE MODE) 530-1710KHz (USA MODE)
Usable sensitivity(S/N=20dB):	30 dBμ

## Disc Player

System:	Disc digital audio system
Frequency response:	20Hz-20kHz
Signal/noise ratio:	>80 dB
Total harmonic distortion:	Less than 0.10%(1 kHz)
Wow and flutter:	Below measurable limits
Channel separation:	>55 dB

## Components

Mounting collar .....	1
Machine screws M5x6mm .....	4
Mounting bolt (50mm).....	1
Wire connector .....	1
Removable face plate case .....	1
Trim plate.....	1
L-key.....	2
Operating instructions.....	1
Rubber cushion .....	1
Remote control unit(with battery).....	1