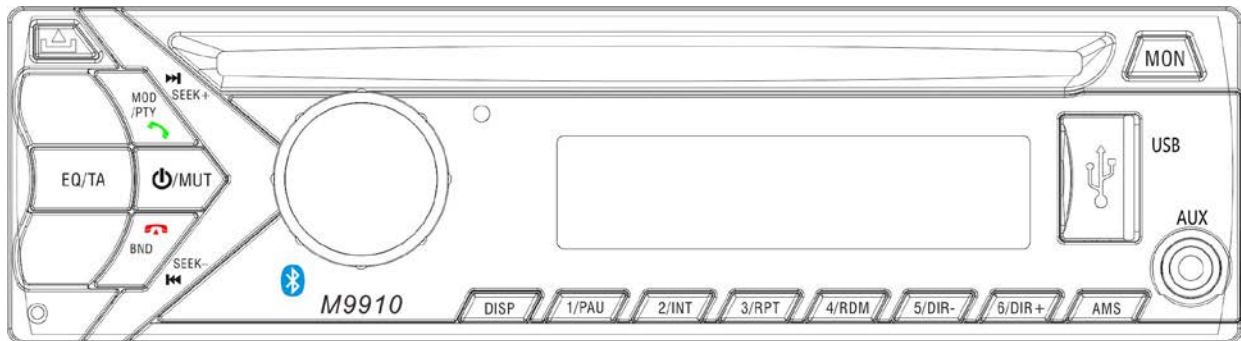# RSD-3229 BT
OWNER'S MANUAL
Mobile Audio System

● **PLL Synthesizer Stereo Radio**

● **Automatic Memory Storing**

● **Full Detachable Panel**

● **USB Interface**

● **Memory Card Interface**

● **Auxiliary Input Function**

● **Bluetooth Hands-free function & Stereo Audio Transmission**

CONTENTS

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.

● 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.

DIN FRONT-MOUNT (Method A)
**Installation Opening**

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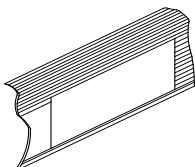
Installing the unit

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 release button on the front panel and remove the control panel (see the steps of "to detach the 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.
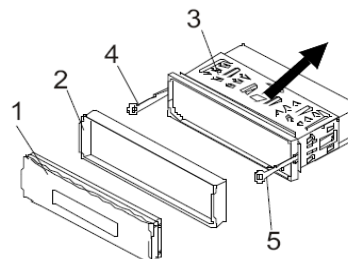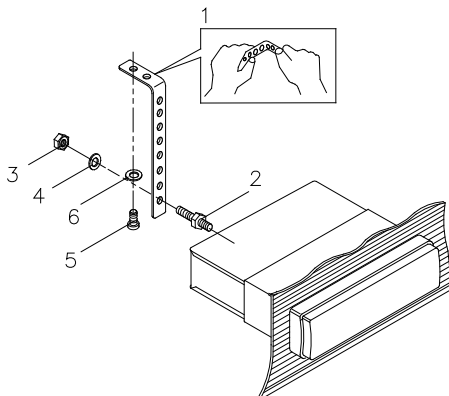

(1) Front panel; (2) Outer trim ring;
(3) Sleeve; (4) L key; (5) R key

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.

INSTALLATION

(1) Dashboard   (2) Taps
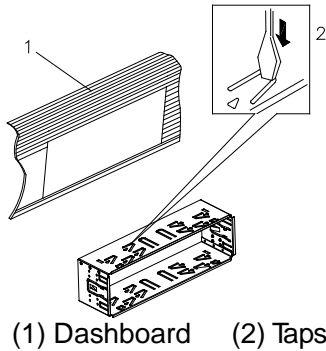
7. Reconnect the wire harness and the antenna and be careful not to pinch any wires or cables.

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 and Plain Washer) to attach the other end of 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 to install the short threading terminal of the mounting bolt to the back of the unit and the other long threading terminal to the dashboard.

(1) Metal Strap; (2) Mounting Bolt;

(3) Hex Nut; (4) Spring Washer;

(5) Tapping Screw (5x25mm); (6) Plain Washer

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, 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.
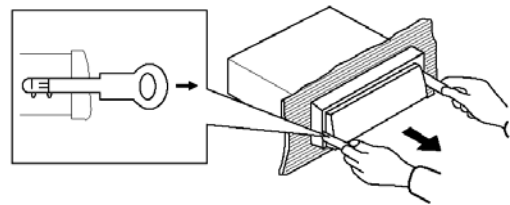

DIN REAR-MOUNT (Method B)

If your vehicle is a Nissan, Toyota, follow these mounting instructions.

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.

INSTALLATION

Side View showing Screw Holes marked T, N or S

Screw

Factory Radio Mounting Bracket

Screw

Dashboard or Console
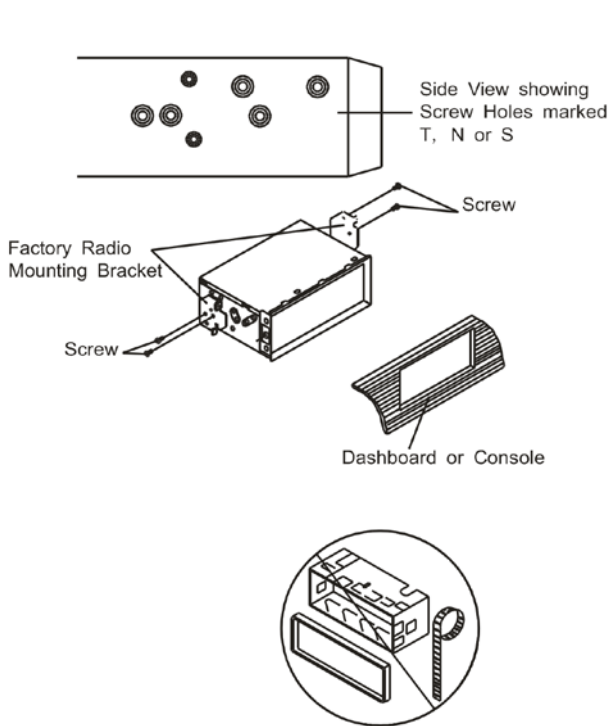
To fasten the unit to the factory radio mounting brackets.

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.

To Detach the Front Panel

1. Press the release button (⏏) on the front panel and pull off the control panel.

Release Button
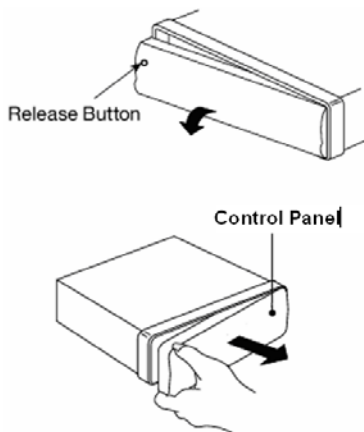
Control Panel

2. Keep the control panel into the case.

Protective Case
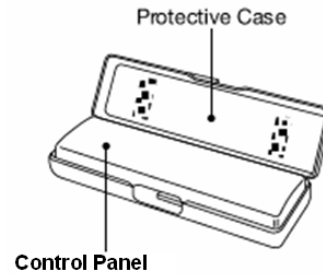
Control Panel

To Install the Control Panel

To install the control panel, insert the panel int the housing and make sure the panel is properly installed. Otherwise, abnormality occurs on the display or some keys will not function properly.
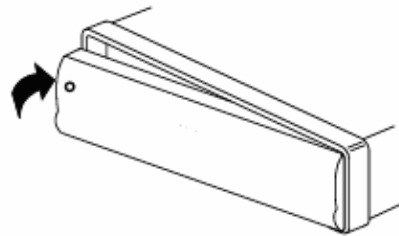
Precautions when handling

1. Do not drop the front panel.
2. Do not put pressure on the display or control buttons when detaching or re-installing the front panel.
3. Do not touch the contacts on the front panel or on the main unit body. It may result in poor electrical contact.
4. If any dirt or foreign substances adhered on the contacts, they can be removed with a clean and dry cloth.
5. Do not expose the front panel to high temperatures or direct sunlight in anywhere.
6. Keep away any volatile agents (e.g. benzene, thinner, or insecticides) from touching the surface of the front panel.
7. Do not attempt to disassemble the front panel.

WIRING CONNECTION
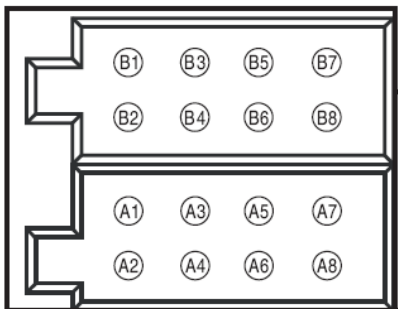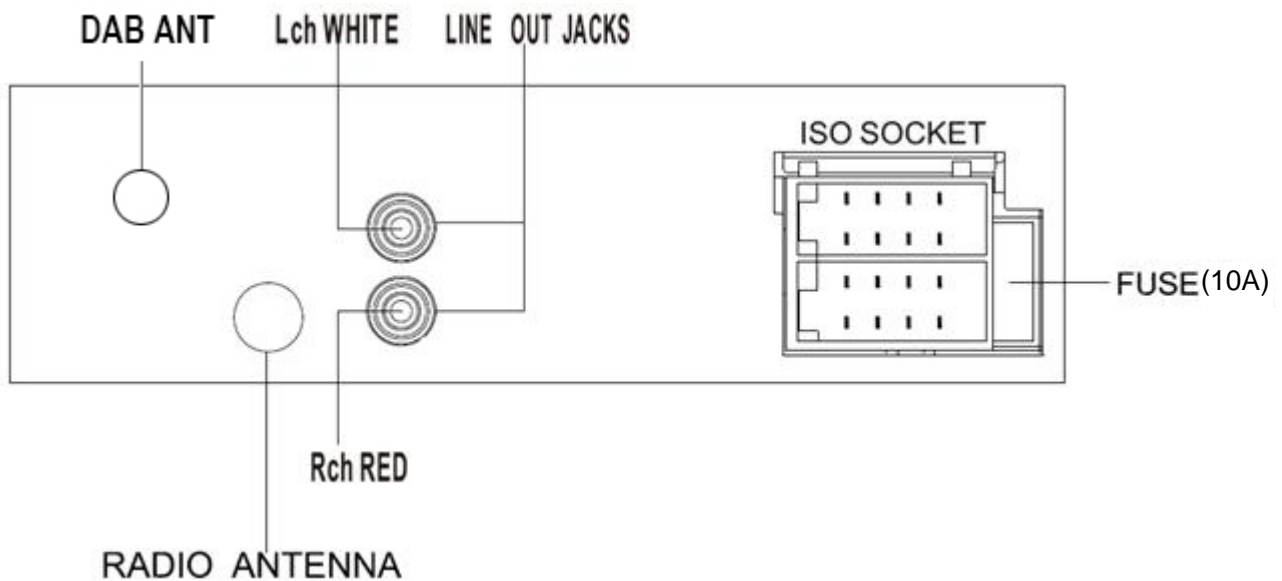
Connector A
1. N.C
2. N.C
3. N.C
4. MEMORY +12V (YELLOW)
5. AUTO ANTENNA OUTPUT (BLUE)
6. N.C
7. +12V (TO IGNITION KEY) (RED)
8. GROUND (BLACK)

Connector B
1. REAR RIGHT SPEAKER (+) (VIOLET)
2. REAR RIGHT SPEAKER (-) (VIOLET/BLACK)
3. FRONT RIGHT SPEAKER (+) (GRAY)
4. FRONT RIGHT SPEAKER (-) (GRAY/BLACK)
5. FRONT LEFT SPEAKER (+) (WHITE)
6. FRONT LEFT SPEAKER (-) (WHITE/BLACK)
7. REAR LEFT SPEAKER (+) (GREEN)
8. REAR LEFT SPEAKER (-) (GREEN/BLACK)

OPERATION

LOCATION OF KEYS
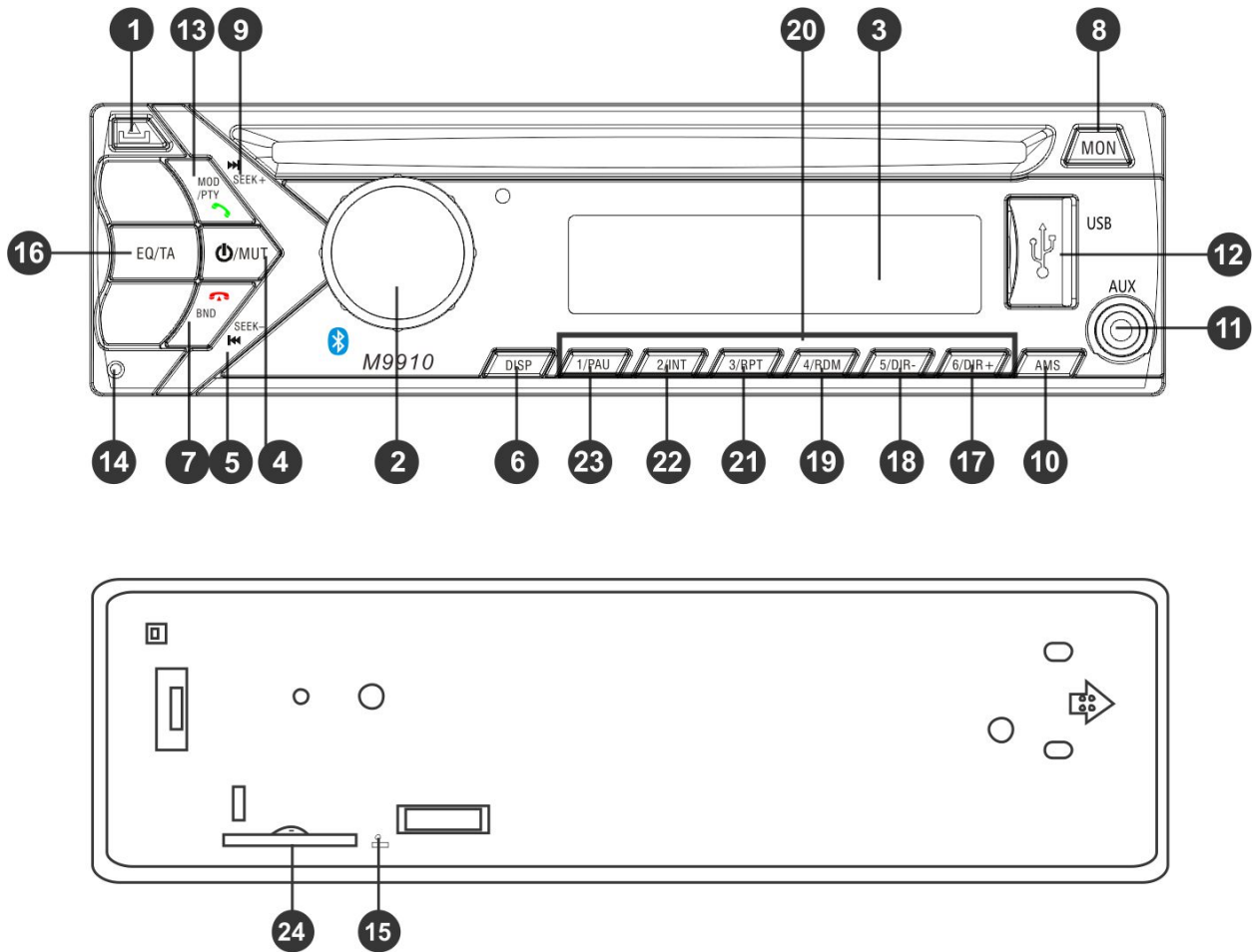
1. ⏏ (release button)
2. VOLUME Buttons(SEL/MUNE)
3. LCD
4. ⏻/MUTE
5. ◄◄ buttons
6. DISP
7. ☎ (hang up)/BND
8. MON
9. ►►| buttons
10. AMS
11. AUX IN
12. USB interface
13. MODE/PTY/☎ (pick up)
14. Mic (microphone)
15. Reset button

16. EQ/TA
17. 6/DIR+
18. 5/DIR-
19. 4/RDM
20. 1-6 preset buttons
21. 3/RPT
22. 2/INT
23. 1/PAU
24. Memory Card interface

OPERATION

BASIC OPERATION

SWITCHING ON/OFF THE UNIT
Press ⏻ button to turn on the unit, When the unit is on, press and hold ⏻ button to turn the unit off.

FACEPLATE RELEASE
Press ⏏ button to detach the removable faceplate.

SOUND ADJUSTMENT
Shortly press Volume knob button to enter AUDIO SETTING mode, use Volume knob button to select the desired adjustment mode. The adjustment mode will change in the following order:

BAS →→ TRE →→ BAL →→ FAD

(Bass)　(Treble)　(Balance)　(Fader)

Use the volume knob to the left or right to Adjust the volume

SYSTEM SETTING
Press and hold the volume button (1) on the front panel to enter system setting mode. Then briefly press the volume button (1) to select the item you want to change and rotate the volume knob (1) to change the corresponding setting.

1) BEEP ON/OFF
   Use Volume knob to set Beep sound on or off.
2) P-VOL
   Use Volume Up/Down button to select the volume level when the unit turns on.
3) AREA EUR/USA
   Use Volume Up/Down button to set EUR or USA area frequency spacing

MUTE
Shortly press **MUTE** button will mute the sound instantly, press it again will resume the sound.

LOUDNESS
Press **LOU** button for several seconds to switch loudness function on, and "LOUD"

will appear on the LCD.
Press it for several seconds again to release this function, and "LOUD" will disappear.

SET THE CLOCK
Press the **DISP** button shortly until the clock is shown on the LCD display. Then hold down **DISP** button until the clock flashes. Then rotation the volume button to change minutes or to change hours.

DISPLAY INFORMATION
Press **DISP** button (18) to operate as the conversion of each display mode.

EQUALIZATION
Press **EQ/TA** button to turn on equalization function and to select desired audio mode. There are several kinds of mode as below:

→ FLAT→CLASSICS→POP →ROCK →EQ OFF

RESET FUNCTION
RESET button must be activated with either a ballpoint pen or thin metal object. The **RESET** button is to be activated for the following reasons:

- Initial installation of the unit when all wiring is completed.
- All the function buttons do not operate.
- Error symbol on the display.

Note: if press **RESET** button, the unit can't work yet, please use a cotton swab soaked in isopropyl alcohol to clean the socket on the front panel.

MODE SELECTION
Shortly press **MODE** button to select the desired mode, such as Radio, USB, CARD, AUX, DAB mode.
When there isn't an USB or CARD connected to the unit, the corresponding mode will be skipped.
For Bluetooth function, when pairing successful, you can select BT mode through **MODE** button.

OPERATION

AUXILIARY INPUT
The unit can be connected to a portable audio player through the **AUX IN** jack on the front panel. After finishing the connection, you can press **MODE** button on the front panel to switch the mode to AUX IN mode.

RADIO OPERATION

SELECTING THE FREQUENCY BAND
At radio mode, press **BND** button shortly to select the desired band.
The reception band will change in the following order:

FM1 ⟶ FM2 ⟶ FM3 ⟶ MW（AM）
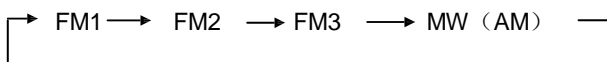
SELECTING STATION
Shortly press ⏮/⏭ buttons to activate automatic seek function. Press for several seconds until "**MANUAL**" appears on the display, the manual tuning mode is selected. If both buttons have not been pressed for several seconds, they will return to seek tuning mode and "AUTO" appears on the display then disappears.

AUTOMATIC MEMORY STORING & PROGRAM SCANNING
- Automatic memory storing
  Press **AMS** button for several seconds "SEARCH" will appear on LCD.
  the radio will search from the current frequency and checks the signal strength until one cycle search is finished. And then 6 strongest stations are stored into the corresponding preset number button.
- Program scanning
  Press **AMS** button shortly to scan preset station. And the corresponding station number P1~P6 will flash on LCD.

  NOTE:
  In MP3 playback mode,press the AMS key selections.

MONO/STEREO
Press **MON** button to select mono or stereo mode. You can sometimes improve reception of distant stations by selection mono operation.

STATION STORING
Press any one of the preset buttons (1 to 6) to select a station, which had been stored in the memory. Press this button for several seconds to store the current station into the number button.

USB PLAY OPERATION
In the front panel of the unit, there is an USB interface. You can connect an USB device through this interface.

When you connect an USB device through the interface, the unit will search the MP3 files or WMA files in the USB driver and start to play MP3 files or WMA files automatically.

If in other mode, you can also press **MODE** button to select USB mode.

SELECTING TRACKS
Press ⏮ ⏭ will skip to the previous next track. Track number will be showed on display.
Press and hold ⏮ ⏭ will fast reverse Forward. Normal play starts when you release the button.

SELECTING DIRECTORY UP/DOWN
Press **DIR-** button or **DIR+** button to select directory downward orupward. If the MP3/WMA file does not contain any directory, there is no function of pressing **DIR-** button or **DIR+** button.

PAUSING PLAYING
Press **PAU** button to pause the play. Press it again to resume play.

OPERATION

PREVIEWING TRACKS
Press **INT** button to play first several seconds of each track. Press again to stop intro and listen to track.

REPEATING THE SAME TRACK
Press **RPT** button to continuously repeat the same track. Press it again to stop repeat.

PLAYING ALL TRACKS IN RANDOM
Press **RDM** button to play all tracks on the USB in random order. Press again to cancel the function.

SELECTING TRACKS BY AS/PS/ Navi-SCH BUTTON
Press **AMS** button, then You
can use the volume buttons to select the track directly.
Then press the **VOLUME** button or **BND** button to start playing the track.

DISPLAY INFORMATION
Press **DISP** button to show the following information, such as the clock, ID3 TAG (if available: song title, directory name, artist name, other contents…) (FOR WITH MP3 ID3 FUNCTION VERSION ONLY) and other information.

Note:
■ The main unit can only support the standard USB-memory device which is approved by Microsoft.
■ USB MP3 player is not a standard which means different brand name or different models have their own standard. So our product cannot support every MP3 player.
■ When connecting an MP3 player and there has normal battery in the player (non rechargeable battery), you should remove the battery from the MP3 player then connect it to the USB interface. Otherwise, it may cause battery burst.
■ When in USB play mode, be sure not to remove the USB driver from the USB interface.

MEMORY CARD OPERATION
There is a memory card interface on the housing the unit.
When you insert a memory card in the memory card interface, the unit will search the MP3 files or WMA files in the card and start to play MP3 files or WMA files automatically.
The operation is the same with the USB operation described above.

CAUTION
When there are important files in the USB device or the memory card, do not connect it to the main unit to play. Because any wrong operation may cause files loss. And our company assumes no responsibility for this.

BLUETOOTH OPERATION

PREPARING FOR OPERATION
(1) When use Bluetooth, please make sure the mobile phone supports Bluetooth function.
(2) For the different kind of mobile phone, Bluetooth emissive power has some difference. To get the best conversation quality, it is commended that the distance between the mobile phone and the unit is within 3m. And please don't put any metal object or any obstacle between the path of the mobile phone and the unit.

PAIRING
1) Long pressing **MODE** button until LCD display PAIRING to enter paring mode. On the mobile phone, select the Bluetooth set up. (Please refer to the instruction manual of your mobile phone on how to operate Bluetooth.)
2) "CarBT" should appear in the list on your mobile phone, please select "CarBT" and then input password "0000".
3) The unit has auto pairing function, it will searching the Bluetooth mobile phone automatically.
4) When successful paired, the Bluetooth sign ⚝ will be displayed on LCD.
5) If pairing failed, try to pair again within several seconds. You can refer to the operation about your mobile phone, delete the device that just searching for and repair again.

OPERATION

RE-CONNECTING

This unit is built-in auto-reconnection function. In some conditions, the unit will auto reconnect with the mobile phone (note: the mobile phone must have been paired with the unit before.)

Before dialing you need to confirm the Bluetooth sign (⚹) is displayed on LCD. Within ten seconds in the following conditions:
a. when you turn off the unit and then turn it on again.
b. switch off the ACC wire and switch it on again.
c. press ⏏ (release) button to release the front panel and install the panel again.

Press ☎ button, 'NOT PAIR' may be displayed on the LCD. You can wait for several seconds to let the unit reconnection automatically During reconnection, LCD will show "CONN TRY" several times and then show "CONN OK" if successfully connect.

RDS OPERATION

- Using **PTY/AF** to Select Program
  - Press **PTY/AF** button once to select the PTY group. Then rotate the volume knob to select the PTY program.
    After selecting the PTY program the unit searches for the respective stations and stops when a station is found.
  - With PTY ON, press **PTY/AF** button again to cancel the PTY function.

- Listening to Traffic Announcement
  Press and hold **EQ/TA** button , the unit will search Traffic Announcement automatically. Press and hold **EQ/TA** button . TA mode will exit.

Note: When selecting AREA EUR in system setting, hold press **PTY/AF** button to switch on or off RDS function. Whenever RDS is switch on, symbol "**AF**" appears on the display.

MAKING AN OUTGOING CALL

Making an outgoing call by inputting the phone number manually.

Press ☎ button on the front panel. Use 0~9, *, # buttons to enter the phone number you want to dial. Then press ☎ button again will call the number.
Note: if you input the wrong number, shortly press **CLR** button will clear it. Press and hold **CLR** button will clear all number.

TRANSFER THE CALL BETWEEN MOBILE PHONE AND THE UNIT

During the talking mode, you can press ☎ button to transfer the phone call between the mobile phone and the unit.
Note:
If you transfer the call to mobile phone, the mute of the present mode will be released at the same time.

SPECIFICATION

GENERAL

Power Supply Requirements   : DC 12 Volts, Negative Ground

Tone Controls

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

Maximum Output Power   : 4x25 watts

Current Drain   : 10 Ampere (max.)

USB/MEMORY CARD PLAYER

Signal to Noise Ratio   : More than 55 dB

Channel Separation   : More than 50 dB

Frequency Response   : 40Hz – 18 kHz

RADIO

FM

Frequency Coverage   87.5 to 108 MHz(Europe)

                              87.5 to 107.9 MHz (USA)

IF   10.7 MHz

Sensitivity (S/N=30dB)   10 dBu

Stereo Separation   >25dB

AM

Frequency Coverage   522 to 1620 KHz(Europe)

                              530 to 1710 KHz (USA)

IF   450 kHz

Sensitivity (S/N=20dB)   36 dBu

Note:

Specifications and design are subject to modification, without notice, due to improvements in technology.

TROUBLE SHOOTING

Before going through the checklist, check wiring connection. If any of the problems persist after checklist has been made, consult your nearest service dealer.

Symptom	Caus	Solutio
No power.	The car ignition switch is not 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 is blown.	Replace the fuse.
No sound.	Volume is in minimum	Adjust volume to a desired level.
	Wiring is not properly connected.	Check wiring connection.
The operation keys do not	The built-in microcomputer is not operating properly due to	Press the RESET button. Front panel is not properly fixed into its place.
The radio does not Work. The radio station automatic selection	The antenna cable is not connected.	Insert the antenna cable firmly.
	The signals are too weak.	Select a station manually.

FCC NOTE

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS OR CHANGE TO THIS EQUIPMENT. SUCH MODIFICATIONS OR CHANGE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

This device complies with FCC's RF radiation exposure limits set forth for an uncontrolled environment, and it must not be collocated or operated in conjunction with any other antenna or transmitter.