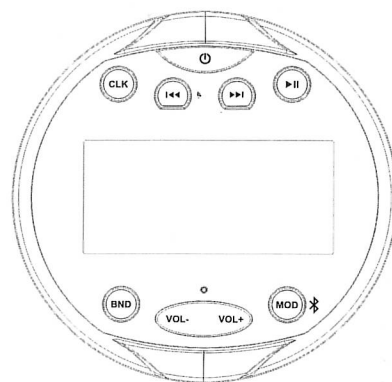# OWNER'S MANUAL
Mobile Audio System
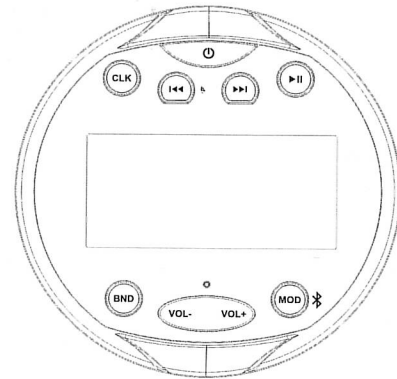
- PLL Synthesizer Stereo Radio
- Automatic Memory Storing
- Bluetooth A2DP Function
- USB Interface
- AUX IN function

CONTENTS

OWNER'S MANUAL
Mobile Audio System

- **PLL Synthesizer Stereo Radio**
- **Automatic Memory Storing**
- **Bluetooth A2DP Function**
- **USB Interface**
- **AUX IN function**

2

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.
- If installation angel 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.

ISO CONNECTION

Installation:

Once a suitable location has been determined, drill the hole and secure the stereo using the metal mounting bracket. If the bracket needs to be shortened, remove the appropriate number of breakaway segments using a pair of pliers.

Dashboard

Mounting Bracket

Break Lines

1 REAR RIGHT + (PURPLE)
2 REAR RIGHT - (PURPLE/BLACK)
3 FRONT RIGHT + (GREY)
4 FRONT RIGHT - (GREY/BLACK)
5 FRONT LEFT + (WHITE)
6 FRONT LEFT - (WHITE/BLACK)
7 REAR LEFT + (GREEN)
8 REAR LEFT - (GREEN/BLACK)

ISO B PART

4 BACKUP 12V+ (YELLOW)
5 POWER ANT (BLUE)
7 ACC (RED)
8 GROUND (BLACK)

ISO A PART

A   B

AUX IN (BLACK)   L-CH(WHITE)   R-CH(RED)

RCA (GRAY)   L-CH(WHITE)   R-CH(RED)

USB

RADIO ANTENNA

4

5
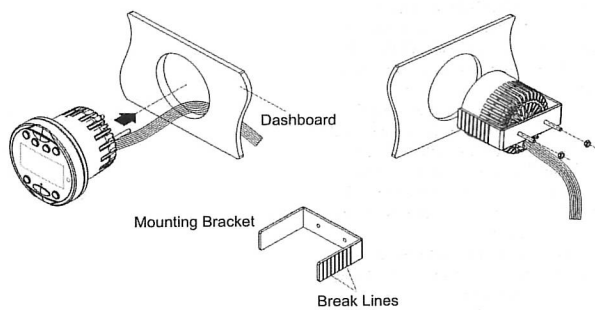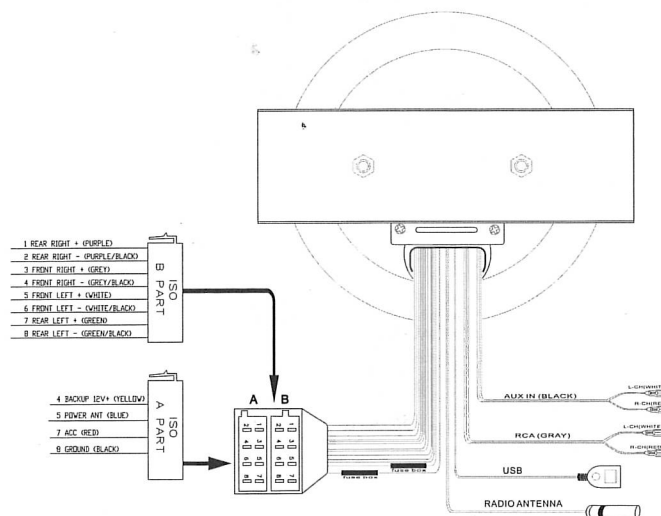
LOCATION OF KEYS

1. **CLK button**
2. **I◄◄ Seek down button**
3. **⏻ button**
4. **►►I Seek up button**
5. **►II Play/pause button**
6. **LCD**

7. **MOD /✳button**
8. **VOL +**
9. **Reset button**
10. **VOL -**
11. **BND button**

6

TURN ON/OFF THE UNIT
Press ⏻ button (3) to turn on/off the unit.

DISPLAY TIME
Press **CLK** button (1) to show the time. After 5 seconds it will return to show the information.

SET THE CLOCK
Press and hold **CLK** button for 2 seconds. The "HH" will flash. Using the knob I◄◄(2) ►►I (4) to change the hour. After that press **CLK** button the "MM" will flash. Press the knob I◄◄(2) ►►I (4) to change the minute. After that press **CLK** button to confirm. If you don't press **CLK** button to confirm. It will writing here for your confirm.

AUXILIARY INPUT
The unit can be connected a portable audio player through the AUX IN interface.

LOW BATTERY DISPLAY
When the battery of the car is lower below 10V around. It will show "LOW BAT".

MEMORY FUNCTION
When B+ wire and Acc wire is off. It can memory the radio's preset stations.

RESET FUNCTION
RESET button (9) 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 (9), the unit can't work yet, please use a cotton swab soaked in isopropyl alcohol to clean the socket on the front panel.

RADIO OPERATION

- **SWITCHING TO RADIO MODE**
  Press **MODE** button (7) to select radio mode, the radio mode appears on the display together with the memory band and frequency.

- **SELECTING THE FREQUENCY BAND**
  At radio mode, press **BND** button (11) shortly to select the desired band.
  The reception band will change in the following order:
  →FM1→ FM2→ FM3→ MW1→ MW2

- **SELECTING STATION**
  Press ►►I button (4) or I◄◄ button (2) shortly to activate automatic seek function. It will search up/down a station automatically. Press for 2 seconds until "**MANUAL**" appears on the display, the manual tuning mode is selected. In this mode you can turn up/down a step frequency one by one till searched a station. If both buttons have not been pressed for several seconds, they will return to seek tuning mode and "**AUTO**" appears on the display.

- **MANUALLY STATION STORING**
  To receive a station, Press and hold the ►II button (5) for 2 seconds. It will show "SAVE CH1". If you want to store the station to CH2. Shortly press it again it will show "SAVE CH2". In this moment press and hold the ►II button (5) for 2 seconds. The current station is stored into the CH2.

- **PRESET STATIONS SELECTING**
  Press the ►II button (7) shortly. You can select the preset station (CH1~6).

7

- **AUTOMATIC MEMORY STORING**
Press **BND** button (11) for 2 seconds, the radio searches from the 87.5MHz frequency and checks the signal strength until one cycle search is finished. And then some stations are stored into the corresponding preset number button. In the first cycle it will in LOCAL mode to receive the stronger station. If it is less than 18 pcs station it will searching stations in 2nd cycle in DX (distance) mode.

USB PLAY OPERATION

On the back side of the unit, there is a USB interface . You can connect an USB driver through this interface . When you connect an USB driver through the interface, the unit will search the MP3 /WMA files in the USB driver and start to play automatically. If in other mode, you can also press **MODE** button to select USB mode.
It supports the MP3/WMA file in the device.

SELECTING SONGS IN SINGLE STEP
Press ▶▶I button (4) or I◀◀ button (2) to move to the following song or the previous song. File number shows on display.
Press and hold ▶▶I button (4) or I◀◀ button (2) for 2 seconds to fast forward or fast reverse. Song playing starts from when you release the button.

PAUSING PLAYING
Press ▶II button (5) to pause playing. Press it again to resume playing.

SELECTING SONGS BY BND BUTTON
In USB mode. Press **BND** button (11) to active the file search mode. It will show "NUM *** ". In this moment press VOL+ or VOL- knob to select the song number's 1'st number. 3 seconds later to select the 2'nd number... (Such as when you want to select the 32'th song. In "NUM *** " you press VOL+ 3 times. It shows "NUM 3** " And 3

seconds later the 2nd "*" flash. You can press VOL+ 2 times. It shows "NUM 32* " . Then press ▶II button (5) to confirm. It will start to play the 32'th song. But if you don't press ▶II button (5) to confirm. It will not play the song you selected.

FOLDER+/- FUNCTION
When MP3/WMA playing. Press and hold **BND** button it will back to the previous folder. Press and hold **MOD** button it will to the next folder.

CAUTION：
When there are important files in the USB Device, 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

- **PRE-PAIR FOR BLUETOOTH OPERATION**

(i) When use Bluetooth, please make sure the mobile phone supports Bluetooth function.

(ii) 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) 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) "CAR KIT" should appear in the list

8

on your mobile phone, please select

"CAR KIT" and then input password "0000" if necessary.
When successful paired the BT mark will be displayed on LCD.

- **Bluetooth audio (A2DP function)**

Press **MOD** key (7) it will show "BT" on the display. Then turn on the music player of the mobile phone and playing a song. The sound will come out from the speaker of the unit.

Press ▶II key to pause/play the song. Press ▶▶I button (4) or I◀◀ button (2) to select next/previous song.

9

SPECIFICATION

GENERAL

Power Supply Requirements	: DC 12 Volts, Negative Ground
Chassis Dimensions	: 100 (W) x 100 (D) x 70 (H)
Tone Controls	
- Bass (at 100 Hz)	: ±10 dB
- Treble (at 10 kHz)	: ±10 dB
Maximum Output Power	: 4 x 14 watts
Current Drain	: 10 Ampere (max.)

RADIO

FM

Frequency Coverage	87.5 to 108 MHz.
IF	10.7 MHz
Sensitivity (S/N=30dB)	4 μ V
Stereo Separation	>25dB

AM(MW)

Frequency Coverage	522 to 1620KHz
IF	450 kHz
Sensitivity (S/N=20dB)	36 dBuV

10

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	Cause	Solution
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 work.	The built-in microcomputer is not operating properly due to noise.	Press the reset button.
The radio does not Work. The radio station automatic selection does not work.	The antenna cable is not connected.	Insert the antenna cable firmly.
	The signals are too weak.	Select a station manually.

11

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11