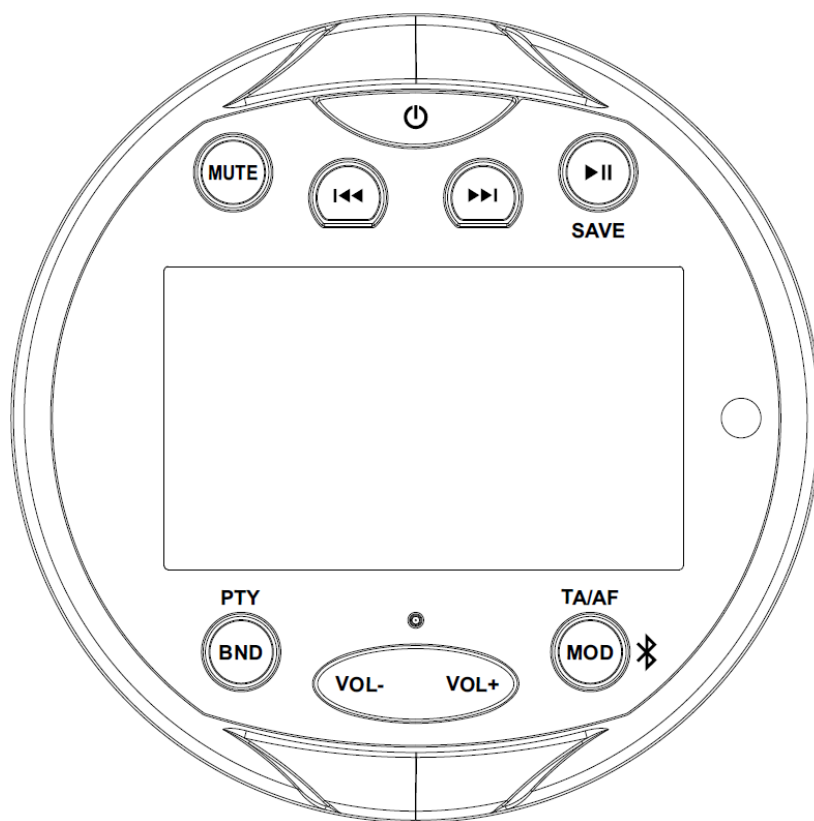


OWNER'S MANUAL

M3-TFT DAB+

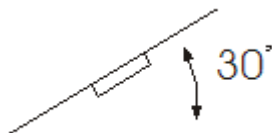


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INSTALLATION

Notes:

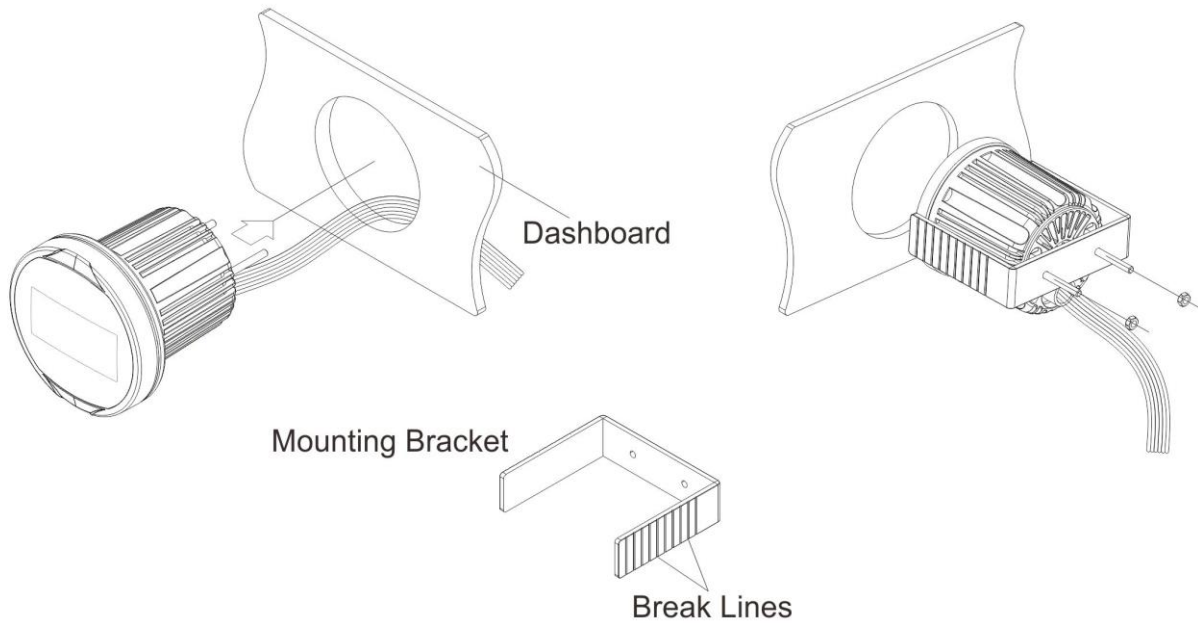
- Choose the mounting location where the unit will not interfere with the normal driving function of the driver.
- Before finally installing the unit, connect the wiring temporarily and make sure it is all connected up properly and the unit and the system work properly.
- Use only the parts included 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.
- 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.



INSTALLATION

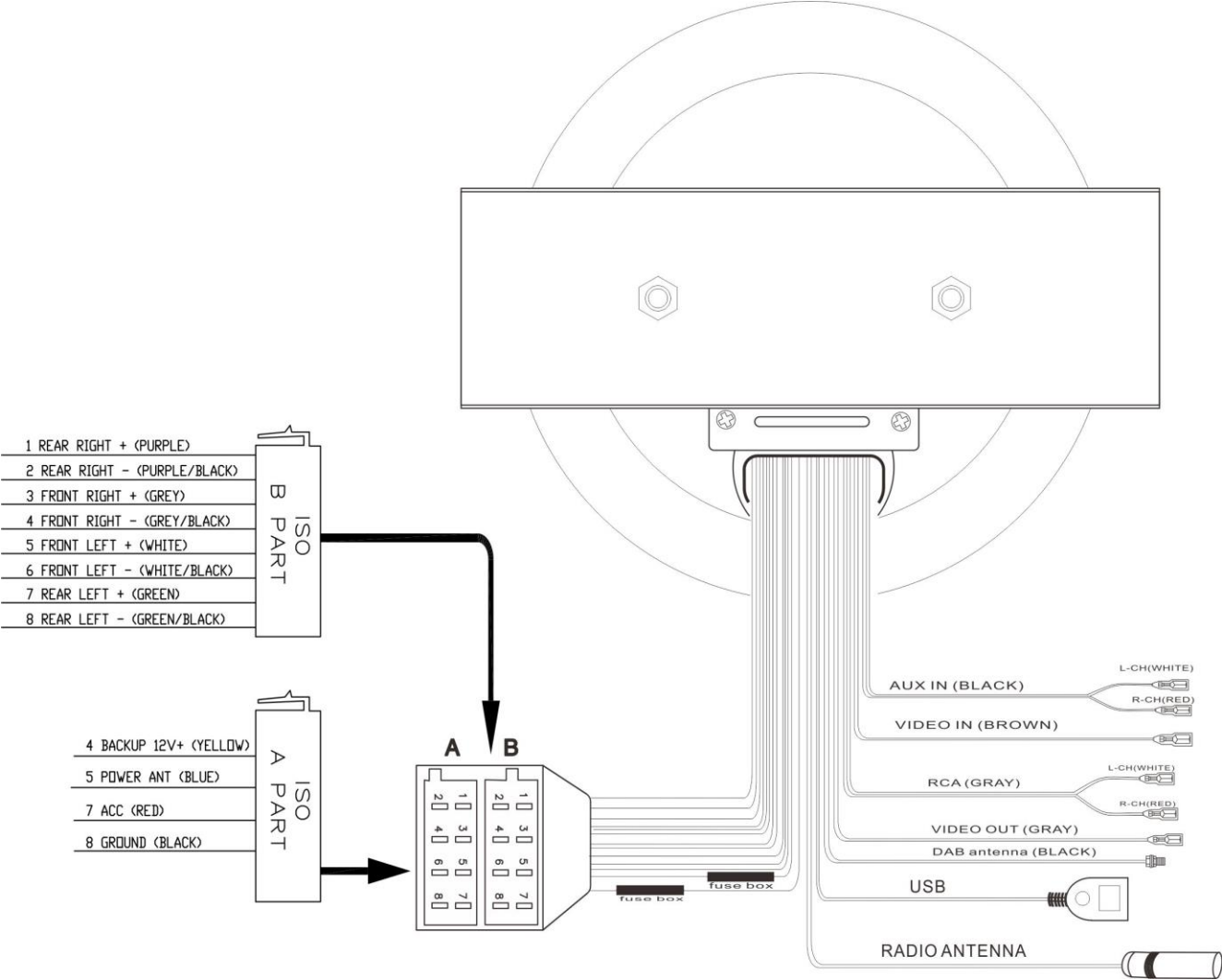
Mounting

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.



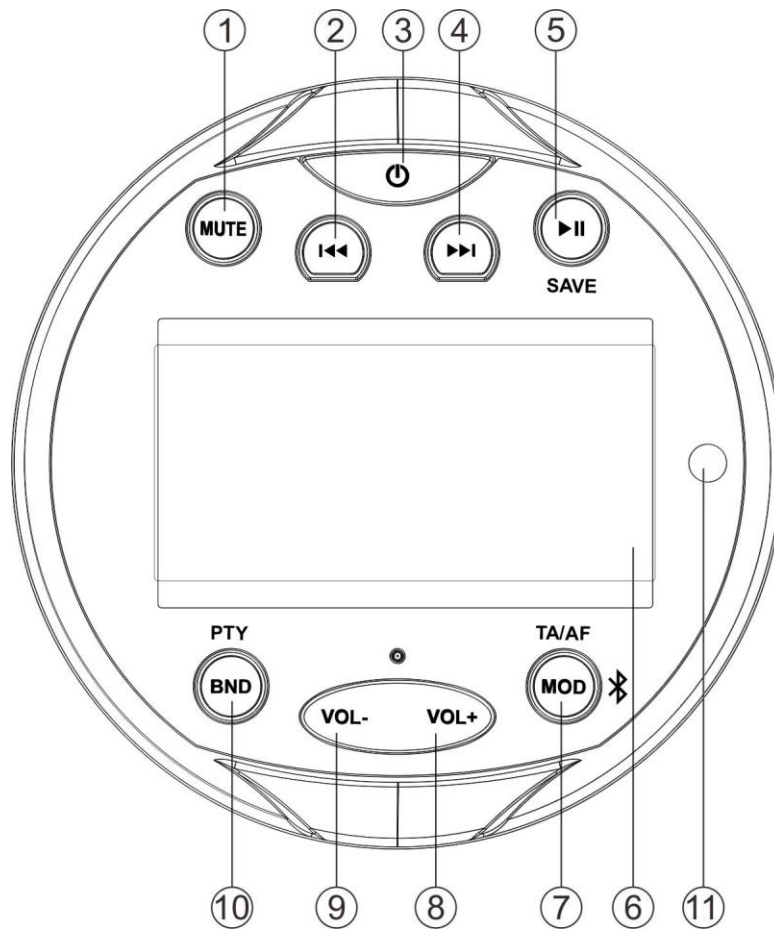
WIRING CONNECTION

ISO CONNECTION



OPERATION.


LOCATION OF KEYS



- | | |
|-------------------------------|------------------------------|
| 1. MUTE button | 7. MOD(MODE) button/BT/TA/AF |
| 2. I◀◀ Seek down button | 8. VOL + |
| 3. ⏻ Power button | 9. VOL - |
| 4. ▶▶ Seek up button | 10. BND(BAND) button/PTY |
| 5. ▶ Play/pause button/save | 11. IR |
| 6. LCD | |

OPERATION.


■ POWER ON/OFF THE UNIT

Press the  button to turn on/off the unit.

● MAIN MENU

Press and hold SETUP/ENTER button on the remote control for 2 seconds ,Then Press “◀” button on the remote control will enter this MAIN menu(see below picture).




Then Press “◀/▶”button on the remote control or “◀◀/▶▶” on the front panel to select desired item then press **ENTER/SETUP** button or  button of the front panel to setting corresponding item.

● SETUP

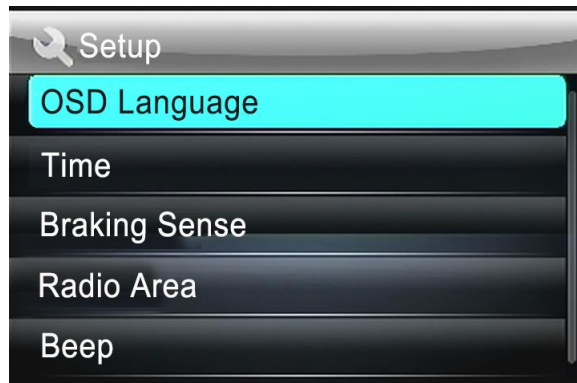
Press and hold ENTER/SETUP button on the remote control for 2 seconds will show the SETTUP menu. See below:




Press “▲/▼”button on the remote control or “◀◀/▶▶” on the front panel to select System /Audio/Video/Default item. Then press **ENTER/SETUP** button or  button of the front panel to enter corresponding item.

(Press “◀”button on the remote control or **BND** button on the front panel to exit to previous menu.)

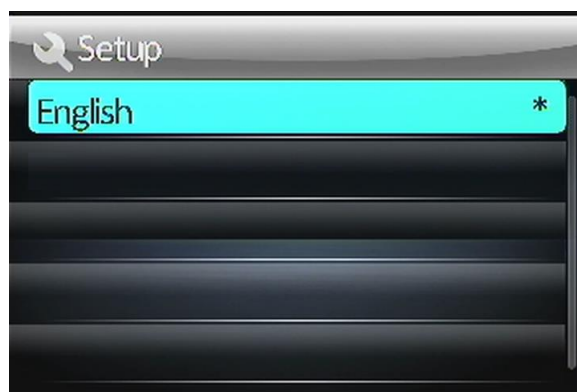
• SYSTEM SETTINGS



Press “▲/▼”button on the remote control or “◀◀/▶▶” on the front panel to select OSD Language/Time/Radio Area/Beep. Then press **ENTER/SETUP** button  or button of the front panel to enter corresponding item.

1).OSD Language:

Now It has English only.



2).Time

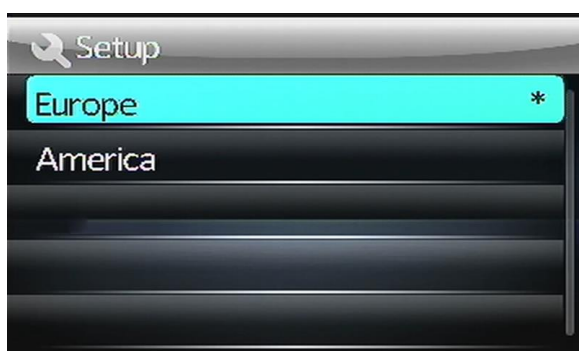
Press “◀/▶”button on the remote control to select adjusting hour or minute. Then press “▲/▼”button on the remote control to adjust correct time. Press **ENTER/SETUP** button exit this item.

OPERATION.



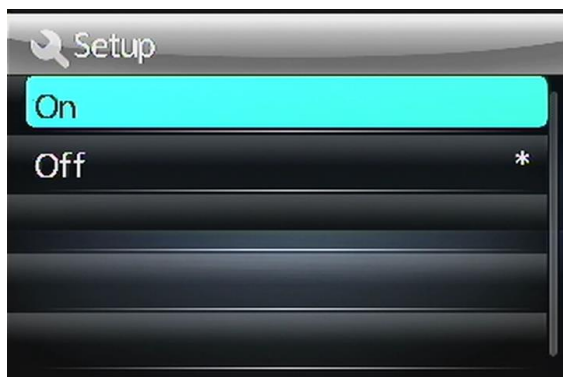
3). Radio Area

Press “▲/▼”button on the remote control to select Europe/America.

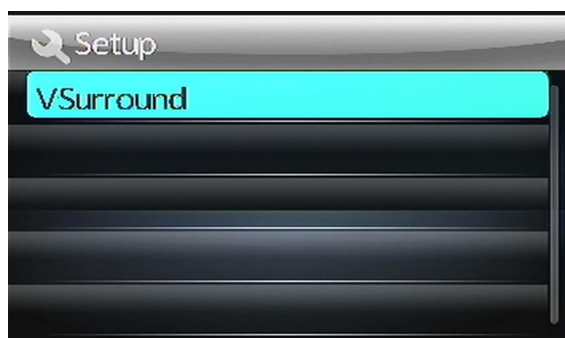


4).Beep

Press “▲/▼”button on the remote control to select on/off.



• AUDIO SETTINGS



1).V surround

Press “▲/▼”button on the remote control to select Off/Concert/Church/Soft/Wide/Live.

Press “◀” button on the remote control or **BND** button on the front panel to exit to previous menu.



• VIDEO SETTINGS



Press “▲/▼”button on the remote control or “◀/▶” on the front panel to select Aspect ratio/Adjust. Then press **ENTER/SETUP** button to enter corresponding item.

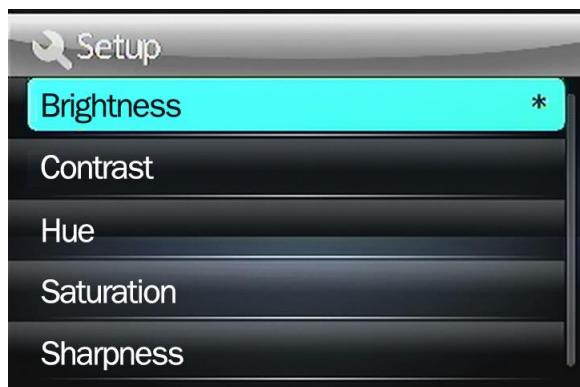
1).Aspect ratio

OPERATION.

Press “▲/▼”button on the remote control to select 4:3 pan scan/16:9.

2).Adjust

Press “▲/▼”button on the remote control to select Brightness/Contrast/Hue/Saturation/Sharpness.



In every item using “▲/▼”button to adjust and press **ENTER/SETUP** button to exit.

• Default SETTINGS

When selecting default function. Press **ENTER/SETUP** button to reset to default.

■ RESET FUNCTION

Press and hold **RESET** button for 6 seconds to active the RESET function. Also in setup menu when you select the Default item and press **ENTER/SETUP** button. It will active the reset function. The **RESET** function is to be activated for the following reasons:

Initial installation of the unit when all wiring is completed.

OPERATION Error symbol on the display.

Once the reset button is pressed. All the memory's information will be lost!

■ SLIGHTFOG AFTER OPERATION

Normal in colder weather. Allow radio to run for 1-2 hours, This will burn off moisture.

■ RADIO OPERATION

1. SWITCHING TO THE RADIO MODE

Press **MODE** button or in the main menu to select RADIO mode. The following information will appear on the display



2. SELECTING THE FREQUENCY BAND

Shortly press **BAND** button to select desired band. The reception band will change in the following order:

→FM1→FM2→FM3

You can select Europe or American Band in Radio Area item of the SETUP menu.

3. Selecting Frequency

During radio mode. Shortly press **▶▶/◀◀** button will activate automatic seek function. It will search up/down a station automatically. Press and hold **▶▶/◀◀** button for 2 seconds till “MANUAL” appear 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 5 seconds, it will return to seek tuning mode and “AUTO” appears on the display.

OPERATION.

4. Automatic Story & Program Scanning:

- Program scanning

Shortly press **AMS** button on the remote control to scan preset station which is stored in number 1~6 buttons . And it will hold at each station for about 5 seconds.

- Automatic memory storing

Press and hold **AMS** button on the remote control for 2 seconds. The radio searches from the 87.5 MHz frequency and checks the signal strength until one cycle search is finished. And then some strong stations are stored into the corresponding preset button. In the first cycle it will in LOCAL mode to receive the stronger station. If it stored stations is not full the preset button. It will searching stations in 2nd cycle in DX mode.

5. Manually store station and recall preset station

- 1) **Remote control operation:** Received a station, Press one of the preset button (1~6) for 2 seconds. The current station will be stored into the number button. Shortly press preset button (1~6) you can listen to the corresponding station.
- 2) **Front panel operation:** Received a station, Press and hold the **▶▶** button till show **SAVE P1** on the display. Press **▶▶/◀◀** to change the preset number then press **▶▶** button. The current station will be stored into the number button. Shortly press **▶▶** button you can listen to the preset station 1~6. (From preset station 1 to preset station 6).

6. Stereo on/off:

Press **ST** button on remote control to select mono or stereo mode. Sometimes when the

signal is not good. If you change it to MONO mode the noise will be reduced. Also you can turn it on/off in SEL menu.

7. Local on/off:

Press **LOC** button on the remote control to select LOC or DX(distance) mode. In LOC mode the unit will reduce the receiving sensitivity when you search station. That means you can receive the station that sound is good. It will ignores the station that sound is not good. In DX mode it will increase the receiving sensitivity when you search the station. That means you can receive more stations. Also you can turn it on/off in SEL menu.

■ USB OPERATION

1) Playing USB

When insert an USB into the USB jack. The unit will search the MP3/ WMA files and start to play.



2) Pause playback

When playing audio/video content, press the **▶▶** button to pause the playback, press again to resume normal playback.


3) Select Chapter/Track

Press the **◀◀ ▶▶** button during playback to select the last or next chapter/track to

OPERATION.


playback.

4) Stop playback


When playing audio/video content, press the  button on the remote controller or **BND** button of the panel to stop the playing.


5) Back to the playing list




a) Remote control operation:



When playing audio/video content, press the  button on the remote controller to stop the playing and back to the playing list.



Press “▲/▼” button to select desired song then press **ENTER/SETUP** button to play. (note: Press   button will change the page of the list).

Press and hold  button will back to the previous folder.

Press the  button to select the  , 




and . press the  button to change to right side. Then Press “▲/▼” button to select desired folder and Press **ENTER/SETUP** button to enter the folder. Press “▲/▼” button to select desired song then press **ENTER/SETUP** button to play.


b) Front panel operation:




When playing audio/video content. Press **BND** button will back to the playing list. Press **BND** button again will back to the previous folder. In


root press **BND** button will enter the left side.


Press vol +/- to select the  ,  and .



Press  back to the right side. Press   button to change the page of the playing list.



Press VOL+/- to select the folder or file. Press  button to enter the folder or start the playing.

Remark: The  icon is for audio files; the  icon is for image files; the  icon is for video files.

 : Tap it to pause playback

 : Tap it to stop playback




 : Tapping one of them can switch on between the speed levels of fast backward or forward.(Except image mode.)



 : Tapping one of them can select next or previous chapter/track.

6) Select Chapter/Track with number buttons

When playing audio/video content, press the 0~9 buttons on the remote controller to directly select and play the track/chapter. Press 10-/10+ button will backward/fast forward to 10 files to play.

7) Playback with speed

During normal playback, press the   button on the remote controller continuously to fast forwards or backwards. During speed playback, press  button to resume normal playback.

Also press and hold the   button of the panel will active the reverse fast / forward fast function.

8) Playback in Scan mode.

a. When playing audio, press the INT button to play the previous 10 seconds part of each

OPERATION.

track. Press the INT button again to resume normal playback.

b. When playing video/image sources, the INT button is not available.

9) Playback in Random

When playing video/audio content, press the RDM button to turn on/off random function.

10) Playback in RPT

When playing video/audio content, press the RPT button to select RPTONE/RPT DIR/RPT ALL.

RPTONE: Repeat the same file.

RPT DIR: Repeat all the file of the folder.

RPT ALL: Repeat all file of the USB.

11) Playback in Image mode

When displaying the root menu,



Press the direction buttons to select your desired FOLDER, then press the ENT or ► button to open the FOLDER, or play the selected file. When displaying the root menu, you can also use the number buttons to select the serial number of the file and play the file.

During IMAGE playback, press one of the ◀/▶ buttons to change the angle of viewing picture that is displaying as follows:

▶: 90 degree cw; ◀: 90 degree ccw;

During IMAGE playback, press the ► button to Pause playing, Press ■ button

return to the folder.

*During IMAGE playback, the following buttons are not available: RDM, INT.

■ AV IN OPERATION

Switching to AV IN mode

The AV INPUT jacks is on the back side. When you connect an audio/video signal through the AV input. Press MODE button or you can choose from the main menu to select AV in mode.

The main menu of the AV IN mode:



■ OTHER FUNCTION

1. Equalization

Repeatedly press EQ button on the remote control to select the equalization mode. There are four kinds of mode as below:

→CLASSIC→ROCK→JAZZ→POP→EQ OFF

2. MUTE

Press MUTE button to muting the audio output. Press it again to recover output.

3. LOUD

Press and hold LOUD button on the remote control to turn on/off the LOUD function.

OPERATION.

4. SEL menu

Repeatedly press SEL button on the remote control will show the SEL menu as below:
Bass---Treble---Balance---Fader---EQ---Loud
---LOC---Stereo---Tavol---Brightness---Contrast---Hue---Saturation---Sharpness---Vol

In every item you can use ◀/▶/ ▲/▼ button to adjust the desired value.

5. SCAN

In RADIO mode. Press **SCAN** button on the remote control to enter scan mode, the unit will scan to higher frequency station and keep on each station for 5 seconds around.

6. OSD

In USB playing press OSD button on the remote control it will turn on/off some information.

■ 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 on your mobile phone, please select "Car KIT". and then input "0000" if it needs a password.

3) When successful paired, the BT mark will be displayed on LCD.

- Bluetooth audio (A2DP function)

Press **MOD** key to switch to BT mode. Then turn on the music player of your mobile phone and playing a song. The sound will come out from the speaker of the unit. Press ▶|| key of the front panel to pause/play the song. Press ▶▶ button or ◀◀ button to select next/previous song.

Note: When there is a phone is coming in. The music will be muted. When the phone call is hanged. The music will be resumed.

■ RDS (RADIO DATA SYSTEM) OPERATION

- Setting RDS mode

Press AF button shortly on the remote control to switch on/off AF mode. In panel Press an hold MOD button for 2 seconds. The TA item will show on the display. Press it shortly again the AF will show on the display. In this moment press VOL+/- button to turn on/off AF function.

Whenever AF is switch on, symbol "AF" appears on the display.

Program name is displayed on receiving a RDS station.

"AF" starts blinking if the broadcasting signal getting worse.

"ALARM" will be displayed when an emergency broadcasting is received, meanwhile sound output level will be adjusted to the preset output level automatically when the volume control is

OPERATION.

set at minimum.

- **Listening to Traffic Announcement**

Press TA button shortly on the remote control to switch on/off TA mode. In panel Press an hold MOD button for 2 seconds. The TA item will show on the display. In this moment press VOL+/- button to turn on/off TA function. When TA mode is on and a traffic announcement is transmitted: When the unit was in MP3 or AUX IN mode, it will switch temporarily to radio mode. (If in MW band it is can't switch temporarily to the TA station).

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, TA of individual segment is turned on. When a TP station is received, TP of individual segment is turned on.

TA interruption function

The current traffic announcement is cancelled by pressing TA key. EON TA information was received from current station and the radio switched to that EON linked station, but no Information could not be received because the EON linked station is located too far from that area. So the radio is switched back to current station again. In above operation, a customer listens to a wrong program or mute sound for a while. The RDS data used are the PI, PS, AF, TP, TA, EON and PTY data.

PI: Program Identification code

Code for identifying programs

PS: Program Service Name Broadcast station name data expressed in alphanumeric characters

AF: Alternative Frequencies Frequency list of broadcasting stations transmitting the same program

TP: Traffic Program Identification identification data for traffic information-broadcasting station

TA: Traffic Announcement Identification Identification data showing traffic information is being transmitted or not
EON: Enhanced Other Networks Information

Broadcasting information on PI, AF, TP, TA, etc, relating to networks other than the network used for current reception.

- **Using PTY to Select Program**

PTY has a speech group and a music group. Press and hold BND button (10) for 2 seconds it will change as below:

**PTY SPEECH group---PTY MUSIC group---
PTY off**

In PTY SPEECH group you can select the program type as below by using button 1~6(remote control). After several seconds it will searching automatically.

- 1# button: NEWS/AFFAIR/INFORM
- 2# button: EDUCATIO/DRAMA/SPORT
- 3# button: VARIED/CULTURE/SCIENCE
- 4# button: FINANCE/CHILD REN/WEATHER
- 5# button: PHONE IN/SOCIAL/RELIGION
- 6# button: TRAVEL/LEISURE/DOCUMENT

Also you can pressing the VOL+/- button on the panel to select above program.

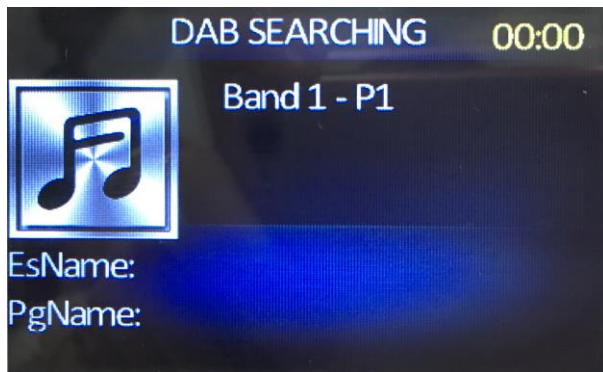
In PTY MUSIC group you can select the program type as below by using button 1~6. After several seconds it will searching automatically.

- 1# button: ROCK M /POP M
- 2# button: LIGHT M/EASY M
- 3# button: OTHER M/CLASSICS
- 4# button: COUNTRY/JAZZ
- 5# button: OLDIES/NATION M
- 6# button: FOLK M

Also you can pressing the VOL+/- button on the panel to select above program.

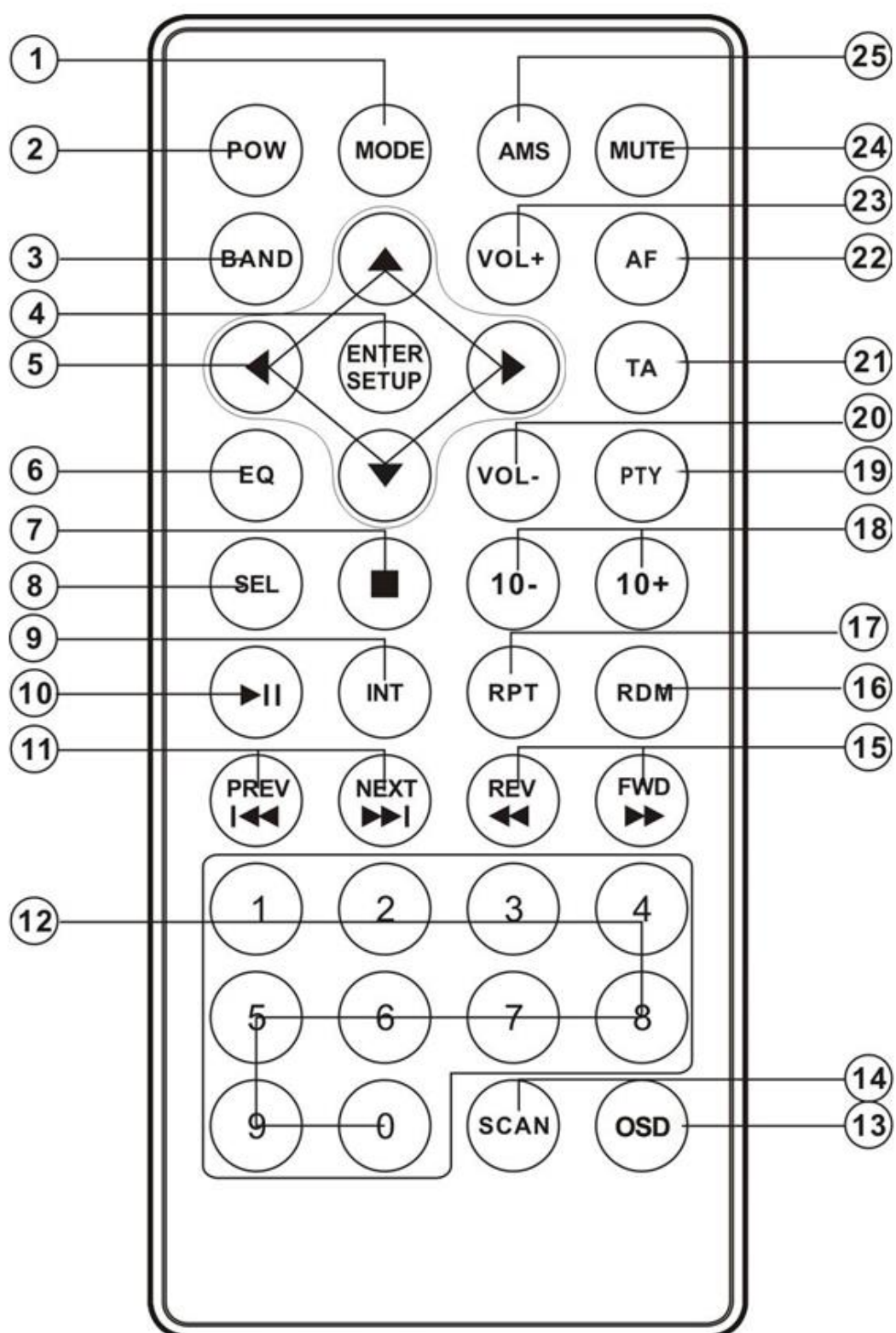
OPERATION.

DAB OPERATION



- 1) Press **AMS** button on remote control for DAB full scan. If there isn't any station, Scroll display "NO STATION FOUND".
- 2) Press **▶▶ / ◀◀** buttons (5/3)button it is station up/down.
Shortly press M1-M6 button(remote control) or **▶||** button to read M1-M6 station.
If Read Empty Preset, Display "NO SAVED"
- 3) Press and hold M1-M6 button(remote control) to memory the current station to the M1-M6 station.

REMOTE CONTROL



REMOTE CONTROL

- | | |
|----------------|---|
| 1. MODE | Press to change the source. |
| 2. POWER | Press it to turn the unit ON or OFF |
| 3. BAND: | To select FM1, FM2, FM3, MW1, MW2 radio bands. |
| 4. ENTER/SETUP | Long press to return to previous menu, short press to enter next menu; |
| 5. ◀/▶, ▲/▼ | In case of MENU mode, ◀/▶,▲/▼ buttons serves as cursor buttons to select item left/right, ahead/back. |
| 6. EQ | Press it to select desired audio equalization |
| 7. ■ | Stop |
| 8. SEL | Access the Bass, Treble, Balance and Fader setting |
| 9. INT | Press INT to INTRO each file. Press again to stop intro function. |
| 10. ▶ | Press to pause the playing. Press it again to resume to play |
| 11. ◀◀/▶▶ | Press ▶▶ to skip to the next track & press ◀◀ to skip back one track in navigation mode. |
| 12. 0-9 | Inputs the corresponding number. |
| 13. OSD | turn on/off some information in USB mode. |
| 14. SCAN | Scanning Button |
| 15. ◀◀/▶▶ | In MP3 mode. Press ◀◀/▶▶ to search forward rapidly & to search reverse rapidly. In radio mode, use ◀◀/▶▶ for manual tuning. |
| 16 RDM | Press it to play all tracks in random order |
| 17.RPT | Repeat play. |
| 18.10+/10- | Digital selecting button, cooperatively used with numeric buttons |
| 19. PTY: | Program selection and searching. |
| 20. VOL- | decrease (-) the volume level. |
| 21. TA | Turn on/off the TA function |
| 22. AF | Turn on/off the AF function. |
| 23. VOL+ | decrease (+) the volume level. |
| 24. MUTE | Press to mute the sound. Press it again to recover the sound. |
| 25. AMS | In radio mode, press it to activate Automatic Memory Storing/Program Scanning function. |

SPECIFICATION

GENERAL

Power Supply Requirements	: DC 12 Volts, Negative Ground
Chassis Dimensions	: 100 (W) x 100 (D) x 75 (H)
Tone Controls	
- Bass (at 100 Hz)	: ± 10 dB
- Treble (at 10 kHz)	: ± 10 dB
• Maximum Output Power	: 4x40 watts
- Current Drain	: 10 Ampere (max.) (For Normal Power Version)

RADIO

FM

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

DAB

Frequency Coverage	174.928~239.200 MHz
Sensitivity (S/N=20dB)	≥ -100 dBuV
Preset stations	18