

7" Wide Touch Screen
In-Dash Fully Motorized TFT Monitor
/DVD/AM/FM/Bluetooth

OWNER'S MANUAL

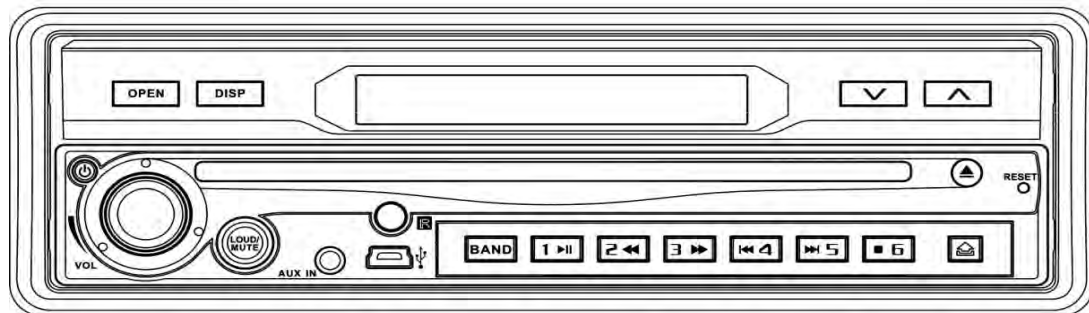
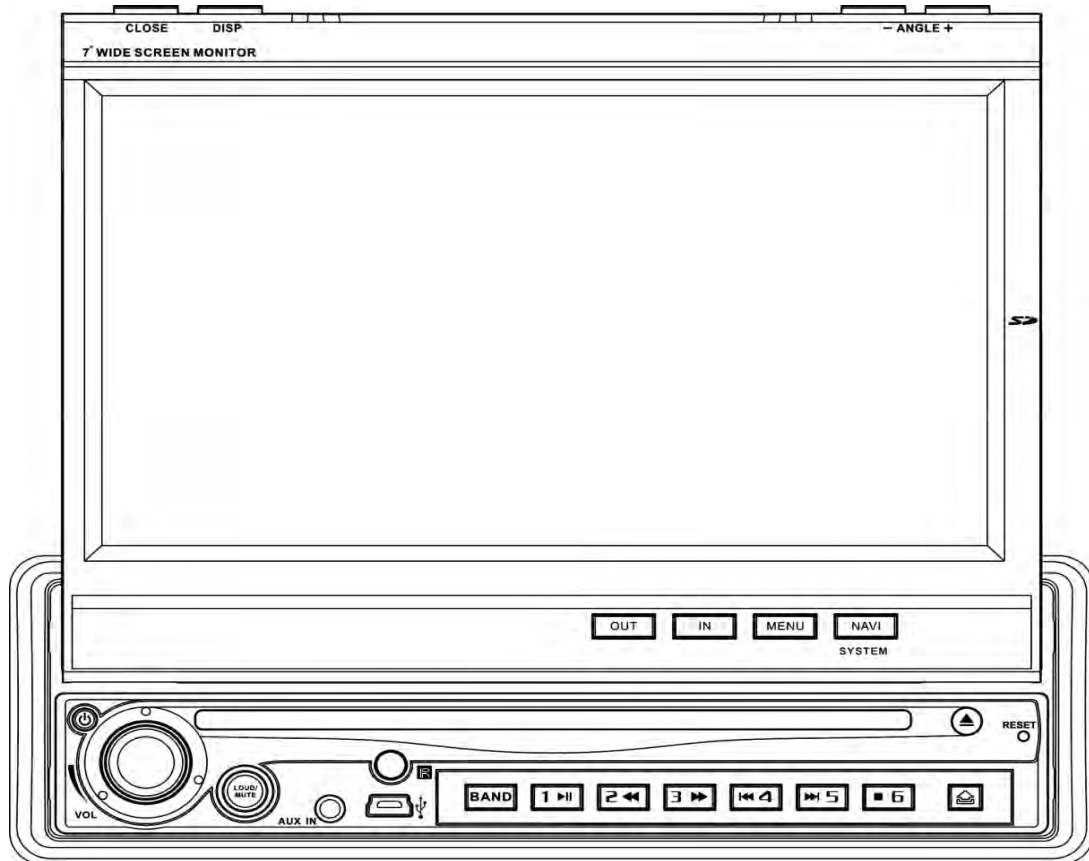


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SAFETY INFORMATION

PLEASE READ COMPLETELY AND BECOME FAMILIAR WITH THE CONTENTS OF THIS MANUAL BEFORE INSTALLATION AND OPERATION OF THIS UNIT, AND KEEP IT CAREFULLY FOR FUTURE REFERENCE.

This unit is a class 1 laser product. The laser beam may cause hazardous radiation if exposure to laser system directly. Do not attempt to disassemble the unit personally.

This unit has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit protect you if you observe the following procedures for installation, use and servicing. This unit doesn't contain any parts that can be repaired by the user. If the unit requires maintenance, contact an authorized service center.

Warnings

- Do not expose the product to rain, water or excessive moisture. This could cause electrical shorts, fire or other damage.
- This product is designed to operate with a 12 volt DC, negative ground battery system. Use the proper power supply.
- The monitor is operated automatically. Do not push in or pull out the monitor or try to reverse the monitor manually! Do not attempt to adjust the monitor angle upward or downward manually. It will cause damage to the Monitor Mechanism Structure.
- Do not impact the monitor with a hard object. It may cause permanent damage.
- Do ground all equipments and works in order to avoid causing damage to the unit by electrostatic discharges.
- The user who handles this product takes all necessary precautions to avoid ESD (Electro-Static Discharge) failures.
- Do not attempt to install or service your unit by yourself. Installation or servicing of the unit by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock or other hazards.

Cautions:

- ⓘ To reduce the risk of fire or electric shock, and annoying interference, use only the recommended accessories.
- ⓘ While driving, keep the volume level low enough to be aware of road and traffic conditions.
- ⓘ Parking in direct sunlight can produce very high temperatures inside your vehicle. Give the interior a chance to cool down before starting playback.
- ⓘ Do not use any chemical solvent, cleaning agent or corrosive detergent to clean away dirt on the surface of the TFT monitor screen. It may cause irreversible damage.
- ⓘ Small black and shiny dots inside the liquid crystal panel are normal for liquid crystal product.
- ⓘ In extremely cold temperatures, the movement of the picture may be slow and the picture may be dark, but this is not a malfunction. The unit will work normally once reach its operating temperature.
- ⓘ Do not use and store the unit in dusty, high temperature and high humidity environments.
- ⓘ Do not use the unit immediately when you bring it from cold to warm place. Fast growing temperature, may cause moisture condensing which influence the unit for certain time.

NOTE:

This user's manual is only for reference.

Modifying rights are reserved.

Specifications are subject to change without notice.

FEATURES

Single Din A/V Source Unit w/ 7" Flip-Up TFT-LCD Touch Screen & Bluetooth Connection

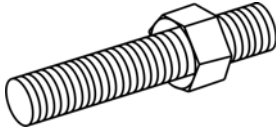
- Motorized TFT-LCD Telescopes Forwards/Backwards w/ Pre-Set Angles
- Detachable Theft Deterrent Front Panel Flips Down for DVD Loading
- Accepts Add-On GPS Navigation Module, NAVIBOX-1
- Accepts Add-On Digital TV Tuner Module, DTV-1
- Car-Spec DVD Transport for Extreme Temperature Exposure
- Playback from DVDR/RW & CDR/RW, Including VCD, MP3, MP4 & DiviX
- Recall Memory for Last DVD Position
- i-Pod Input Control (Requires IP-1C cable)
- Mini-USB Connection for MP3 & MP4 Playback from 4GB Flash Drive
- 4GB SD Card Reader for MP3, MP4, DiviX & Xvid Playback
- 1GB Internal Memory for Background & Screen Saver Images
- 18 FM / 12 AM Station Memory
- 50w x 4 MOSFET Powered Speaker Level Outputs
- Front & Rear Pre-Amp Outputs
- Variable Subwoofer Pre-Amp Output w/ LPF (80, 120, 160Hz)
- A/V Outputs for Multiple Components
- A/V Inputs for Secondary Source
- Front Panel 3.5mm Auxiliary A/V Input
- Reverse Camera Input w/ Trigger
- Custom & Pre-Set EQ Settings
- Audio Staging Controls
- 12/24 Hour Clock
- USA/European Frequency Stepping
- NTSC/PAL Auto Selection
- 480 x 234 Screen Resolution
- 350 NIT Backlight Brightness

Bluetooth Features

- Work with Most Bluetooth V2.0 Enabled Phones
- Noise & Echo Cancellation
- Contacts List Transferred for Easy Access Dialing
- Caller ID Shows Name and Number from Contacts List
- Recent Calls & Talk Time Logs
- A2DP for MP3 Playback

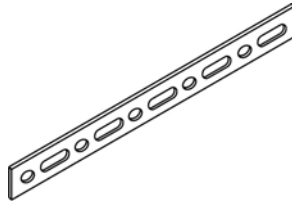
ACCESSORIES

1



Bolt

2



Steel Bar x 1

3



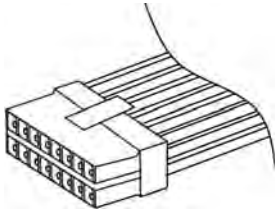
M5X5 Screws x 4

4



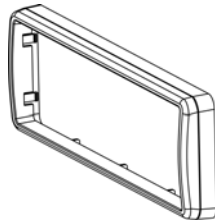
Keys x 2

5



Connector Wire x 1

6



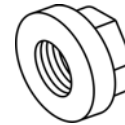
Trim Bezel x 1

7



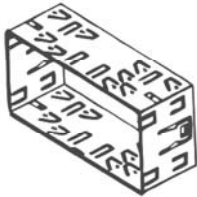
Remote Control x 1

8



Nut M5 x 1

9



Mounting Sleeve x 1

10



Operational Manual x 1

11



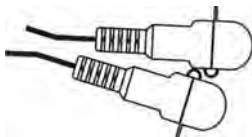
Slipcover x 1

12



USB Cable x 1

13



AUX Cable x 1

14



i-Pod Cable x 1
(Optional)

15



External Microphone x 1

WIRE CONNECTION

Cautions:

- To prevent short circuits, remove the key from the ignition and disconnect the terminal of the battery.
- Make the proper input and output cable connections for each unit.
- Connect the wiring harness cables in the following order: ground wire, battery wire, ignition wire.
- Reconnect the terminal of the battery.
- Do not connect the yellow wire of this product directly to the battery terminal.
- Do remember to connect the red wire of this product to the ACC. of the ignition key switch. Failure to do may result in draining off the battery charge prematurely.
- If the fuse blows, first make sure that the cables have not caused a short circuit, then replace the old fuse with new one with the same rating.
- Do not let unconnected cables or terminals touch the metal on the car or other conductor.
- To prevent short circuits, do not remove the caps form unused terminals or from the ends of the unconnected cables.
- After the monitor unit is installed, check whether the brake lamps, blinkers, wiper, etc. on the vehicle are working properly. If not, please make sure they are proper installed.
- Insulate unconnected wires with vinyl tape or other similar material.



Warnings:

Disconnecting the Battery

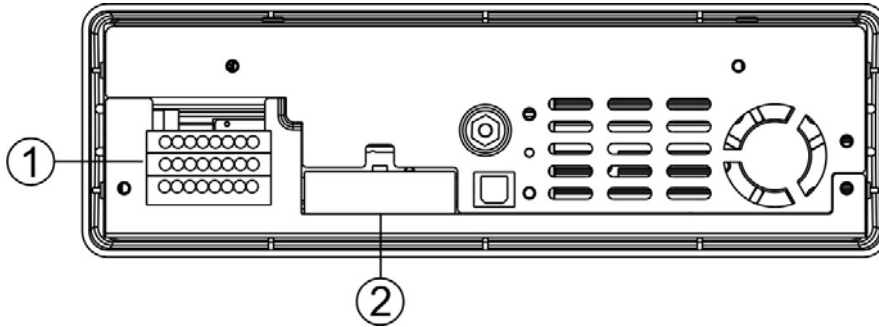
To prevent a short circuit, be sure to turn off the ignition and remove the negative (-) battery cable prior to installation.

Reconnecting the Battery

When wiring is complete, reconnect the battery negative terminal.

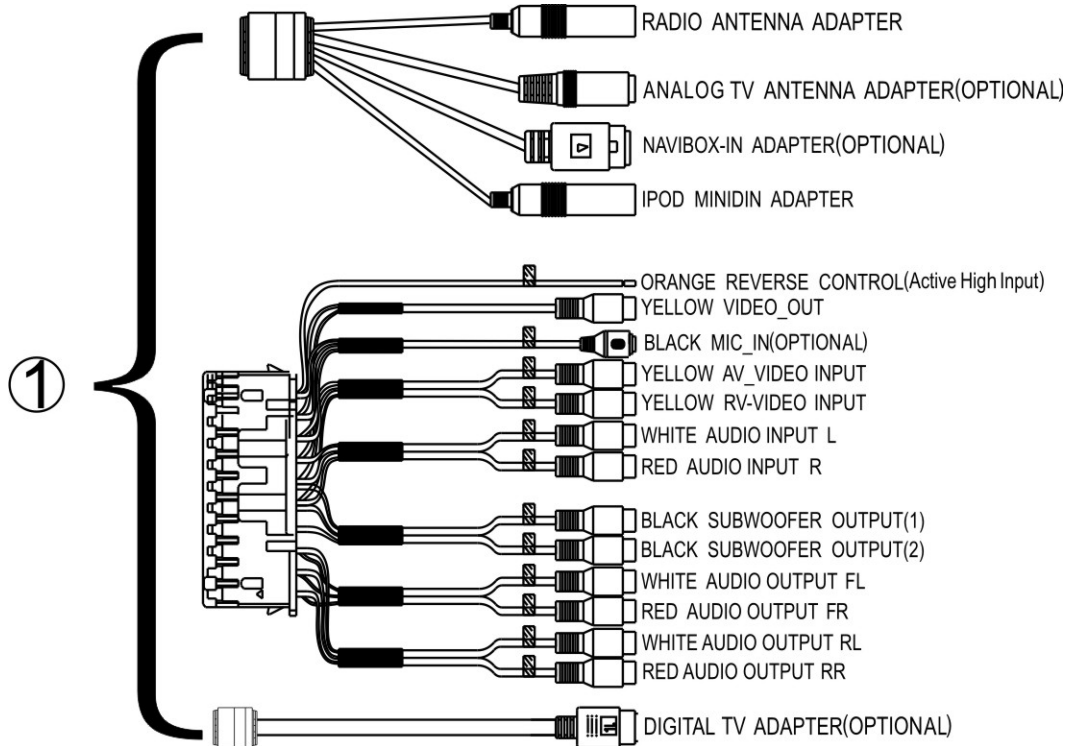
Fuse Replacement

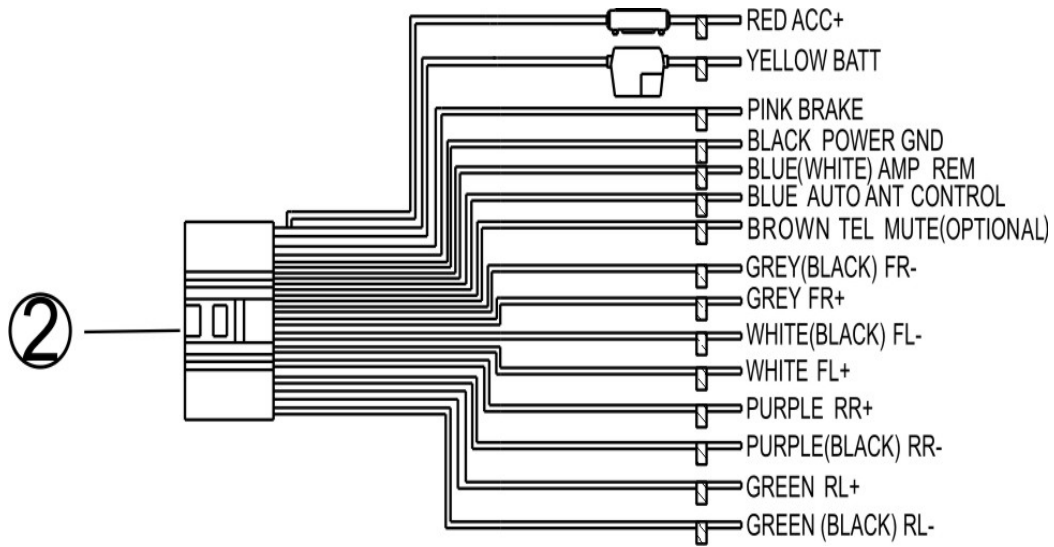
Never replace any fuse with one of a higher value than the fuse supplied with your unit. Using a higher current rated fuse may cause damage to your unit and/or electrical wiring.



1. RADIO ANTENNA ADAPTER
IPOD ADAPTER
ANALOG TV ANTENNA (OPTIONAL)
NAVI ADAPTER (OPTIONAL)
AUDIO /VIDEO OUTPUT & INPUT
DIGITAL TV ADAPTER (OPTIONAL)

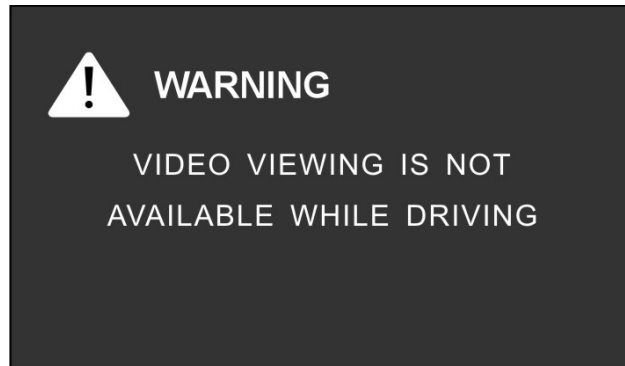
2. 15PIN SOCKET





Brake Control

Connect the brake control wire AUTO_ANT (see Wiring Diagram). It is necessary to connect the Brake Control wire to the Hand-brake switch of the car. While driving, the TFT monitor will display the alarm picture (see as follows) in order to ensure the safety.



Under the Rear View Mode, the Brake Control function is no effective.

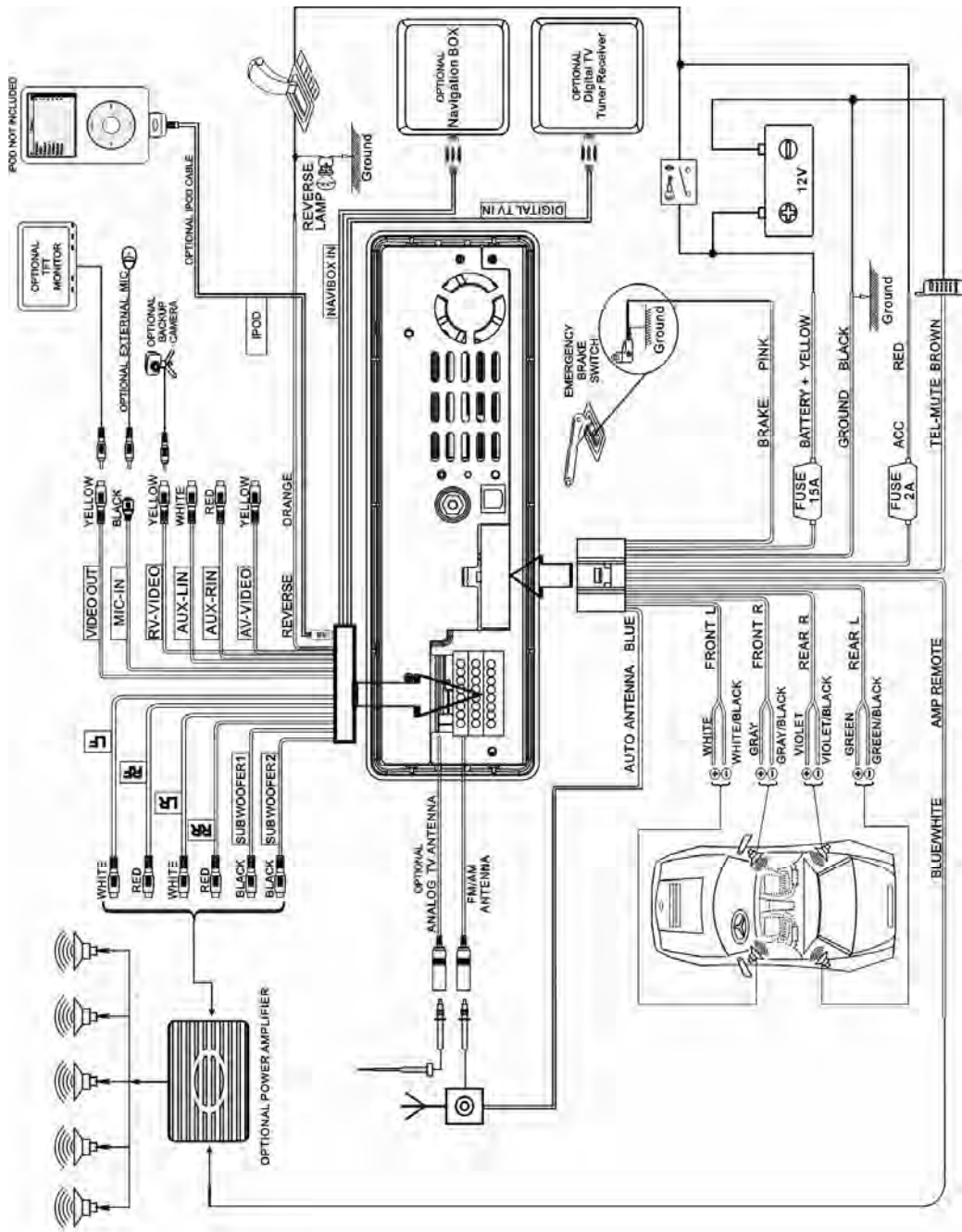
Telephone Mute Control (Optional)

Connect the telephone mute control wire TEL_MUTE (see Wiring Diagram). If there is a vehicle call comes in, the sound volume will mute off automatically, and TFT monitor shows: PHONE...; when call finished, the sound volume will recover to former volume, and the words PHONE... disappear.

Auto Antenna Control

Connect the auto antenna control wire AUTO_ANT (see Wiring Diagram). The antenna will lift when the unit startup; it will descend when the unit turnoff.

Wiring Diagram



UNIT INSTALLATION AND REMOVAL

Please read all of the instructions before beginning the installation. Recommend having your unit installed by a professional installation shop.

Tools and Supplies:

You will need these tools and supplies to install your unit:

- Torx type, flat-head and Philips screwdrivers
- Wire cutters and strippers
- Tools to remove existing radio (screwdriver, socket wrench set or other tools)
- Electrical tape
- Crimping tool
- Volt meter/test light
- Crimp connections
- 16 gauge wire for power connections
- 8 gauge speaker wire



Warnings:

Choose the mounting location where the unit will not interfere with the safe driving conditions.

Install the unit where it does not get in the driver's way and can not 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.

Cautions:

Before finally installing the unit, connect the wiring temporarily and make sure it is all connected up properly, the unit and the system work properly.

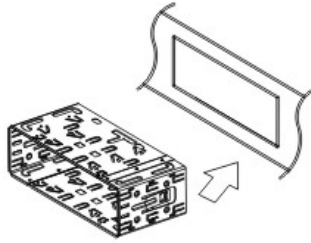
Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.

Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.

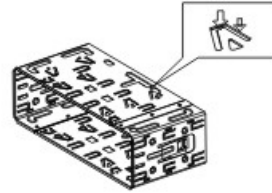
If installation angle exceeds 30 degrees from horizontal, the unit might not give its optimum performance.

Installation Method 1:

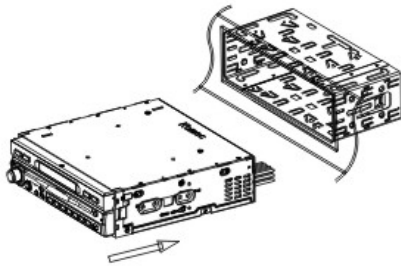
1 Install the mounting sleeve into the dashboard.



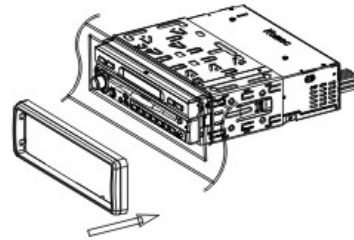
2 Bend the claws into place to secure the sleeve.



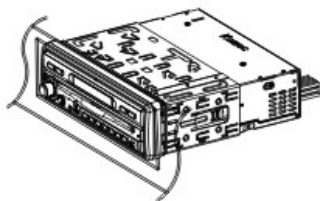
3 Slide the units into the mounting sleeve.



4 Install the trim bezel onto the unit.

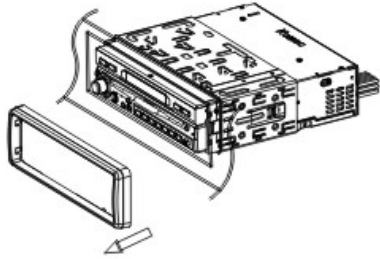


5 Sketch map when installation finished.

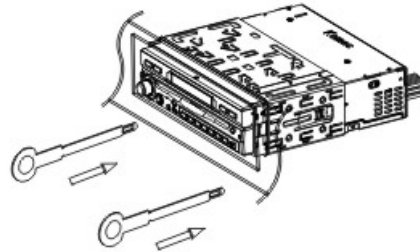


Removal Method 1:

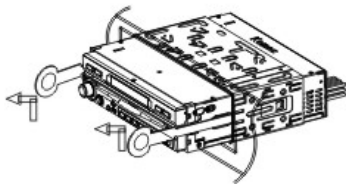
1 Detach the trim bezel.



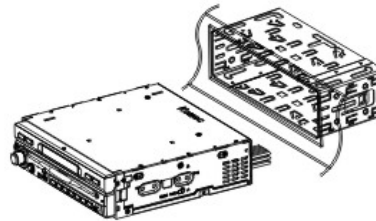
2 Insert the keys into the aperture between the unit and the mounting.



3 Pull the unit out of the mounting sleeve.



4 Sketch map when removal finished.

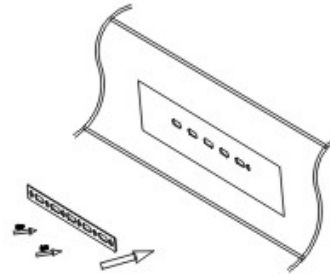


Installation Method 2:

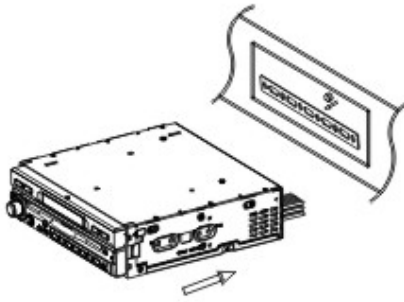
1 Tighten the bolt onto the rear panel of the unit.



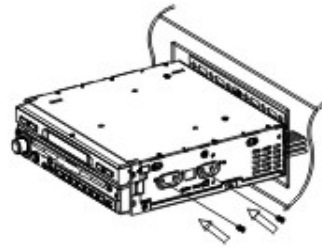
2 Tighten the back strap onto your car inside the dashboard.



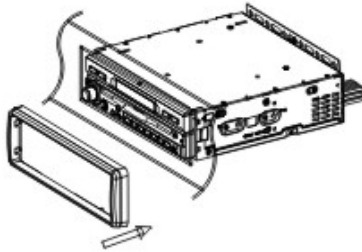
3 Place the unit into the dashboard; make the bolt bar across back strap; and then fix the bolt by the Nut M5.



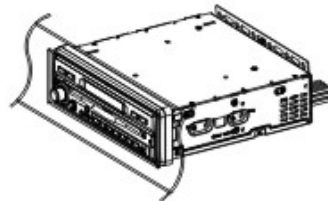
4 Screw the unit on the car on the two sides with M5x5 SCREWS.



5 Install the trim bezel onto the unit.

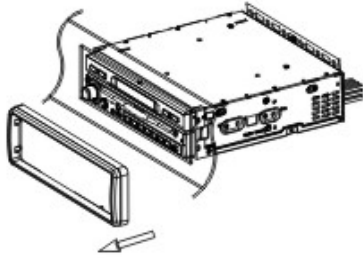


6 Sketch map when installation finished.

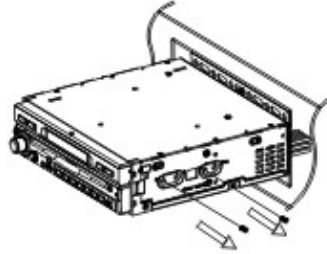


Removal Method 2:

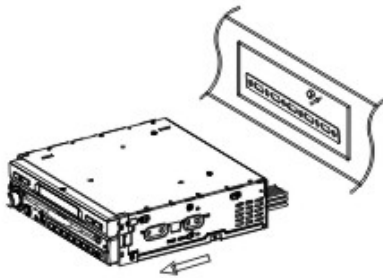
1 Detach the trim bezel.



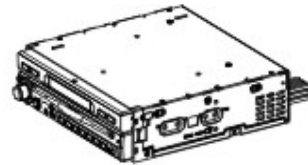
2 Unscrew the unit off the car on the two sides.



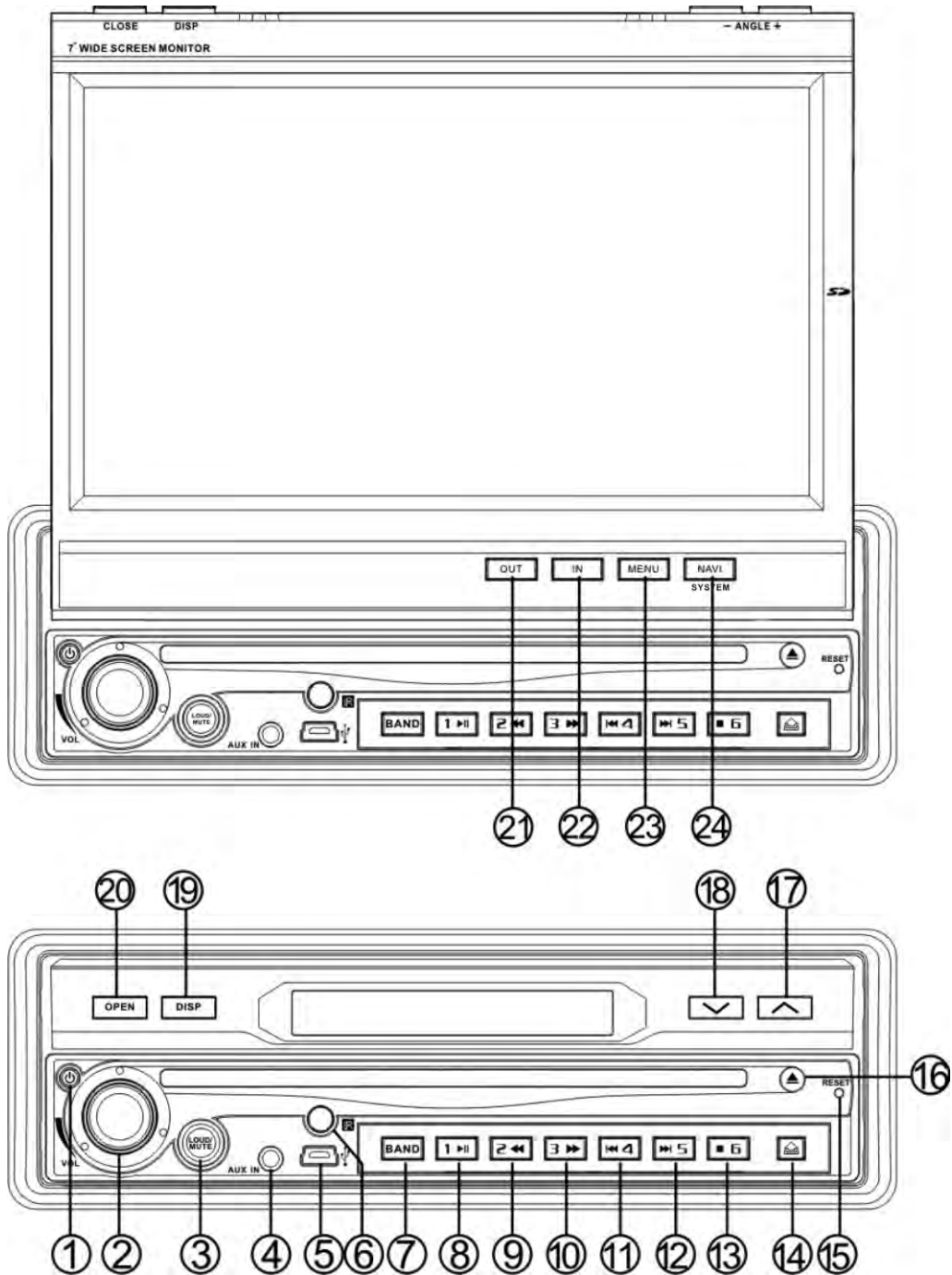
3 Unscrew the Nut M5 screw on the rear side of the unit and pull out the unit.



4 Sketch map when removal finished.



FRONT PANEL



- 1. POWER
- 4. AUX IN
- 7. BAND
- 10. F. FWD
- 13. STOP
- 16. RESET
- 19. DISPLAY
- 22. IN

- 2. VOLUME / EQ
- 5. MIN USB
- 8. PLAY / PAUSE
- 11. PREV
- 14. REL
- 17. ANGLE + / END CALL
- 20. OPEN / CLOSE
- 23. MENU

- 3. MUTE / LOUD
- 6. REMOTE
- 9. F. REV
- 12. NEXT
- 15. EJECT
- 18. ANGLE - / CALL
- 21. OUT
- 24. NAVI / SYSTEM

1. Power

When ACC is on, press to turn the unit on; hold on pressing the button to turn off the unit.

When the unit is on, press to switch between different modes.

2. Volume / EQ

Rotate the button clockwise / anticlockwise to increase / decrease the volume.

Press vertically to switch the EQ setting as following:

USER – POP – CLASSIC – ROCK – JAZZ – USER

3. Mute / Loud

Press to switch off the sound; press it again to resume to the previous volume level.

Hold on pressing the button to activate LOUD on / off.

4. AUX IN

Connect an external audio device to this jack to listen to the device through your car speakers.

5. Mini USB

The unit will be switched to USB Mode automatically when USB connected, and play the songs, pictures, videos in USB.

6. Remote

Remote infrared receiver.

7. Band

Radio Mode, press to switch the wave band as following:

FM1 – FM2 - FM3 - AM1- AM2 - FM1

8. Play/Pause

Press to pause or resume the playback.

9. / 10. Fast Reverse / Fast Forward

Press to fast reverse / fast forward at 2x speed. Each press changes speed from 2x to 4x to 8x to 16x to 32x then back to normal play. Press the [PLAY/PAUSE] button to resume to normal playback.

11. Previous / 12. Next

Press to go to the next / pervious chapter, track or song.

13. Stop

When DVD/VCD/CD disc playback, press the button once to stop the playback, press the [Play/Pause] button to resume the playback again. Press the button twice to stop the playback, press the [Play/Pause] button to start the playback from the beginning of disc.

When MP3 disc playback, press the button to stop the playback, press the [Play/Pause] button to start the playback from the beginning of track.

Preset Stations

Radio Mode, press the buttons [1, 2, 3, 4, 5, 6] to select a preset station, hold on pressing to store current radio frequency to the preset station.

14. REL

Press to take off the panel for burglar-proof purpose, the unit will turnoff automatically and the TFT monitor will retract after 15 seconds automatically.

15. Eject

Press to eject / load a disc.

16. RESET

Press and hold this button to switch back to all the original factory settings. Keep in mind this will erase all your preset radio stations and any EQ settings you may have made and saved.

17. ANGLE + / END CALL / 18. ANGLE + / CALL

Adjust the view angle of the monitor to choose the best displaying effect.

1- Continual angle adjustment

Hold on pressing the [ANGLE +] / [ANGLE -] buttons to adjust the angle of TFT monitor upward / downward by continual increasing / decreasing.

2- Single step angle adjustment

Press the [ANGLE +] / [ANGLE -] buttons to adjust the angle of TFT monitor upward / downward by singly increasing / decreasing.

Bluetooth Mode, press the [CALL] button to receive a cell phone call, press the [END CALL] button to reject or hang up a call.

19. DISPLAY

Press to display the current playback information.

20. OPEN / CLOSE

When unit power off, press the [OPEN] button to turn unit on and the monitor will spread out and turn around to the last angle position.

When unit power on, press the [OPEN] button, the monitor will spread out and turn around to the last angle position; Press the [CLOSE] button, the monitor will turn downward and completely retract in.

21. OUT / 22. IN

Press the [OUT] / [IN] buttons to move the monitor forward / backward by singly step. There are 2 steps to move the monitor forward / backward totally.

NAVI mode, hold on pressing the [OUT] / [IN] buttons to decrease / increase the brightness of panel.

23. MENU

Press to return the main menu.

24. NAVI / SYSTEM

Press to enter / exit the NAVI mode.

Hold on pressing to enter / exit the System Parameter Setup menu.

Protection of the TFT Monitor

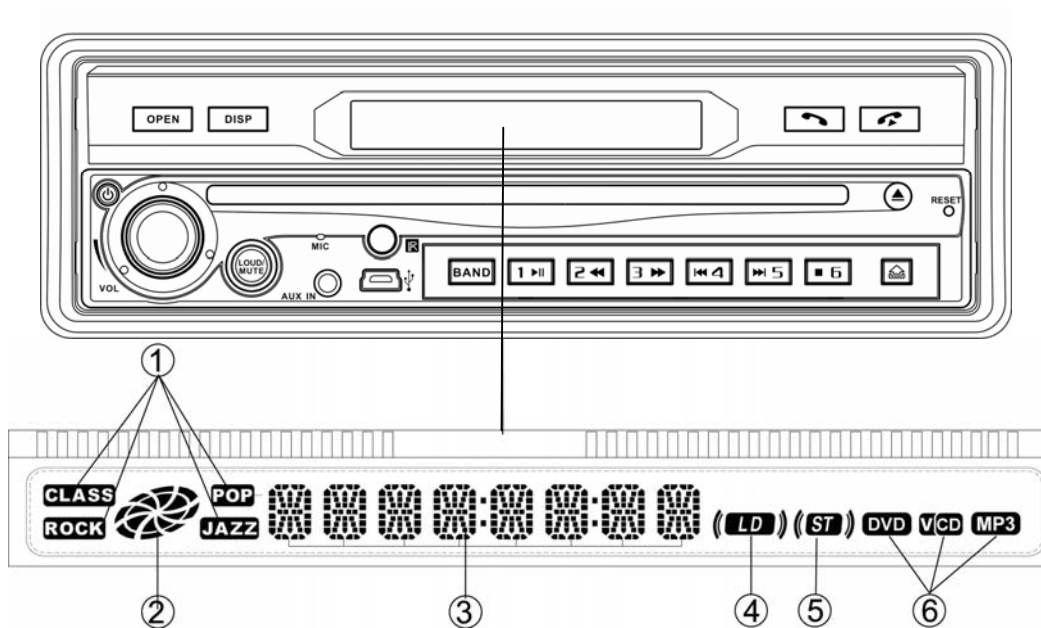
During the movement of the TFT monitor, if it is halted by force, then the unit will begin self-protection to prevent from any damage on the motorized mechanical structure.

Press the [OPEN] button or shut down the ACC and then restart, the TFT monitor will act as the follow list to recover; if not, then please consult with an authorized service center.

Halt	Self-protection	Press the [OPEN] button	Shut down the ACC and restart
------	-----------------	-------------------------	-------------------------------

While extending	Retraction	Extending	Retraction
While retraction	Stop at the halt place and retract after 3 seconds	Extending	Retraction
While turning upward	Turning downward and retraction	Extending	Turning downward and retraction
While turning downward	Turning upward	Turning downward and retraction	Turning downward and retraction

FRONT PANEL DISPLAY



1. EQ Indicator:

It turns on to indicate the POP/CLASSIC/JAZZ/ROCK when corresponding setup.

2. Disc Icon:

It rotates when playing disc under the DVD Mode.

3. Main Display Area:

Display the information such as working mode, characters, playback time & number of track, radio frequency etc.

4. LOUD Icon:

It displays when the LOUD on, it disappears when the LOUD off.

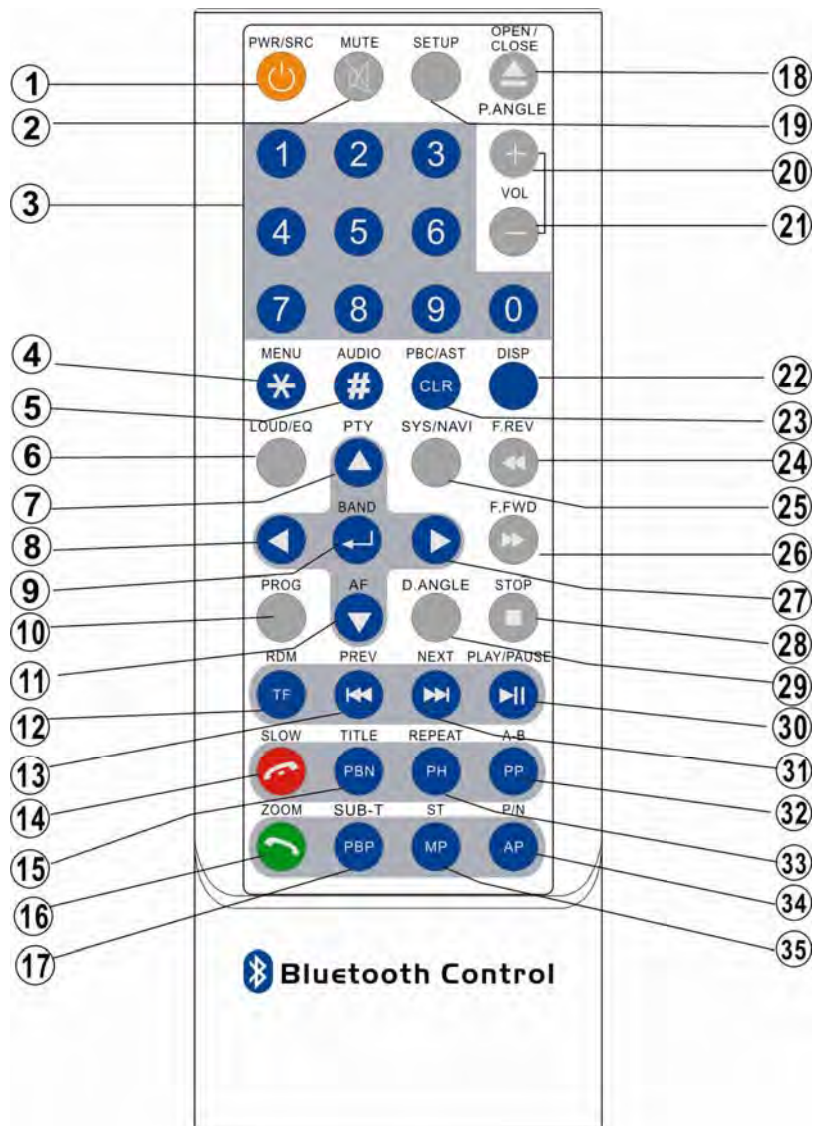
5. ST Icon:

It displays when the STEREO on, it disappears when the STEREO off.

6. Disc Type Indicator:

It turns on to indicate DVD, CD, VCD, and MP3 when playing corresponding discs.

REMOTE CONTROL



- | | | |
|------------------------|-----------------------------------|----------------------|
| 1. POWER/SOURCE | 13. PREVIOUS | 25. SYSTEM / NAVI |
| 2. MUTE | 14. SLOW / END CALL | 26. F.FWD |
| 3. NUMBER BUTTONS | 15. TITLE / PBN | 27. RIGHT(Seek up) |
| 4. MENU / * | 16. ZOOM / CALL | 28. STOP |
| 5. AUDIO / # | 17. SUBTITLE / PBP | 29. D.ANGLE |
| 6. EQ / LOUD | 18. OPEN / CLOSE / P.ANGLE/ EJECT | 30. PLAY / PAUSE |
| 7. UP (TUNE UP)/PTY | 19. SETUP | 31. NEXT |
| 8. LEFT (SEEK DOWN) | 20. VOLUME+ | 32. A-B / PHONE PAIR |
| 9. ENTER / BAND | 21. VOLUME- | 33. REPEAT / PHONE |
| 10. PROGRAM | 22. DISPLAY | 34. PAL / NTSC / AP |
| 11. DOWN(Tune Down)/AF | 23. PBC / AST / CLEAR | 35. STEREO / MP |
| 12. RANDOM / TRANSFER | 24. F.REV | |

NOTE:

This is a universal remote, some functions would be optional.

1. [POWER/SOURCE]

When ACC is on, press the button to turn the unit on; hold on pressing the button to turn off the unit.

When the unit is on, press to switch between different modes.

2. [MUTE]

Press to switch off the sound; press it again to resume to the previous volume level.

3. [NUMBERS 0~9]

Radio Mode, press the buttons 1~6 to select a preset station, hold on touching to store current radio frequency to the preset station.

DVD Mode, When playing DVD, VCD, CD, MP3, press the buttons 0~9 to input the number of track, press the [BAND] button to confirm.

TV Mode, press the buttons 0~9 to choose the channel and press the [BAND] button to confirm.

Bluetooth Mode, press the buttons 0~9 to input phone numbers.

4. [MENU / *]

DVD Mode, press to return to the boot menu when playing DVD disc.

Bluetooth Mode, press to input the symbol *.

5. [AUDIO / #]

DVD Mode, press to change dialogue language when playing DVD disc; Press to select different audio channels when playing VCD, CD disc.

Bluetooth Mode, press to input the symbol #.

6. [LOUD/EQ]

Press to adjust the EQ setting as following:

USER – POP – CLASSIC – ROCK – JAZZ – USER

Hold on pressing to switch between LOUD ON / OFF.

7. [^] / 8. [v] / 11. [v] / 27. [>] Direction Key

DVD Mode and System Parameters Setup, press the [v] / [^] buttons to move the cursor upward / downward to select item. Press the [v] / [>] buttons to move the cursor leftward / rightward to select item.

Radio Mode, press the [v] / [>] buttons to switch the stored stations. Hold on pressing the [v] / [>] buttons to fast seeking the next available channel by decreasing / increasing the tuning frequency; seeking will stop by pressing any button. Press the [v] / [^] buttons to decrease / increase the frequency step by step. Hold on pressing the [v] / [^] buttons to fast seeking by decreasing / increasing the tuning frequency; seeking will stop when loose the button.

TV Mode, hold on pressing the [v] / [>] buttons to fast tuning channel forward the low / high frequency automatically. Press the [^] / [v] buttons to select the stored channel upward / downward.

Bluetooth Mode, press [v] / [>] buttons to switch between dialing page, phonebook, music and setup page.

GPS Mode, press the [v] / [^] buttons to decrease / increase the brightness of the screen.

9. [BAND/ENTER]

DVD Mode, press to confirm the selection.

Radio Mode, press to switch the wave band as following:

FM1 – FM2 - FM3 - AM1- AM2 - FM1

TV Mode, press to switch the TV audio as following:

NTSC – PAL/BG – PAL/I – PAL/DK – NTSC

Hold on pressing to switch the TV system area as following:

USA – CCIR – ITALY – AUS – NZ – USA

Bluetooth Mode, press the button to turn on/off selected item.

10. [PROGRAM]

DVD Mode, press to enter / exit the PROGRAM Function when playing the DVD, VCD, CD disc.

12. [RANDOM/TRANSFER]

DVD Mode, press to turn RANDOM function on / off when playing DVD, VCD, CD disc.

Bluetooth Mode, press to transfer the call between the unit and your cell phone when talking the phone.

13. [PREVIOUS] / 31. [NEXT]

DVD Mode, press to go to the pervious / next chapter, track or song.

14. [SLOW/END CALL]

DVD Mode, press to slow motion playback at 1/2x speed when playing DVD/VCD disc. Each press changes speed from 1/2x to 1/4x to 1/8x to 1/16x then back to normal play.

Bluetooth Mode, press to reject or hang up a call.

15. [TITLE/PBN]

DVD Mode, press to enter the title menu when playing DVD disc.

Bluetooth Mode, press to enter the next page of phone number list in phonebook.

16. [ZOOM/CALL]

DVD Mode, press to zoon the picture display when playing DVD, VCD disc. Each press changes speed from 2x to 3x to 4x to 3x to 2x then back to normal play.

Bluetooth Mode, press to call a number or to receive a cell phone call.

17. [SUB-T/PBP]

DVD Mode, press to change the subtitle language when playing DVD disc.

Bluetooth Mode, press to enter the previous page of phone number list in phonebook.

18. [OPEN/CLOSE/P.ANGLE/EJECT]

When unit power off, press the button to turn unit on and the monitor will spread out and turn around to the last angle position.

When unit power on, press the button, the monitor will spread out and turn around to the last angle position; Press the button again, the monitor will turn downward and completely retract in.

Hold on pressing the button to eject / load a disc.

19. [SETUP]

DVD Mode, press to enter/ exit the DVD SETUP menu.

20. [VOL+] / 21. [VOL-]

Press to increase / decrease the volume.

Hold on pressing the button to keep increasing/decreasing the volume.

22. [DISPLAY]

DVD Mode, press to display current playback information.

Bluetooth Mode, press to return to the previous page.

23. [PBC/AST/CLEAR]

DVD Mode, press to select the PBC function on / off when playing VCD disc.

Radio Mode, press to review stored stations; Hold on pressing to automatically program the 6 strongest stations available into the presets in the each wave band.

TV Mode, automatically seek the stations available.

Bluetooth Mode, press to cancel or clear the numbers you have input.

24. [F.REV] / 26. [F.FWD]

DVD Mode, press to fast reverse / fast forward at 2x speed. Each press changes speed from 2x to 4x to 8x to 16x to 32x then back to normal play. Press the [PLAY/PAUSE] button to resume to normal playback.

25. [SYSTEM/NAVI]

Press to enter / exit the System Parameter Setup menu when playing DVD, VCD and CD disc.

Hold on pressing to enter / exit the NAVI Mode.

28. [STOP]

DVD Mode, when DVD/VCD/CD disc playback, press the button once to stop the playback, press the [Play/Pause] button to resume the playback again. Press the button twice to stop the playback, press the [Play/Pause] button to start the playback from the beginning of disc. When MP3 disc playback, press the button to stop the playback, press the [Play/Pause] button to start the playback from the beginning of track.

29. [D.ANGLE]

DVD Mode, press to select different viewing angles with interactive DVD media during playback.

30. [PLAY/PAUSE]

DVD Mode, press to pause or resume the playback.

32. [A-B/PHONE PAIR]

DVD Mode, press to set point A, press it again to set point B, then the unit starts to repeat from A to B. When playing DVD, MP3, press it again to stop repeating. When playing VCD, CD, press it again to repeat all tracks.

Bluetooth Mode, press to start phone-pairing.

33. [REPEAT/PHONE]

DVD Mode, press to repeat as CHAPTER-TITLE-ALL-REPEAT OFF when DVD playback. Press to repeat as TRACK-ALL-REPEAT OFF when VCD/CD playback. Press to repeat as REPEAT ONE-REPEAT ALL-REPEAT OFF when MP3 playback.

Bluetooth Mode, press to break off or connect cell phone with the unit.

34. [P/N/AUDIO PLAYER]

DVD Mode, press to switch the video output (PAL/NTSC) when playing DVD disc.

Bluetooth Mode, press to enter into AUDIO PAIRING.

35. [STEREO/MUSIC PAIR]

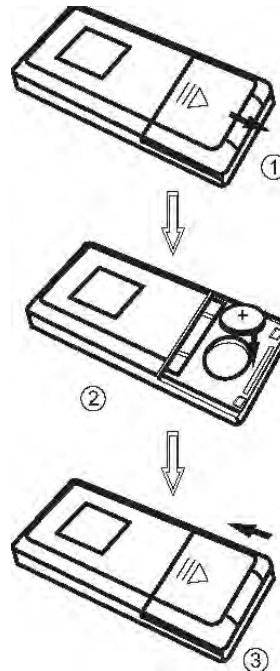
Radio Mode, press to turn the stereo on / off under.

Bluetooth Mode, press to break off or connect the music storage medium with the unit.

REPLACING THE BATTERIES

If the remote control has no function or if the operating range reduced, replace the old battery with new one.

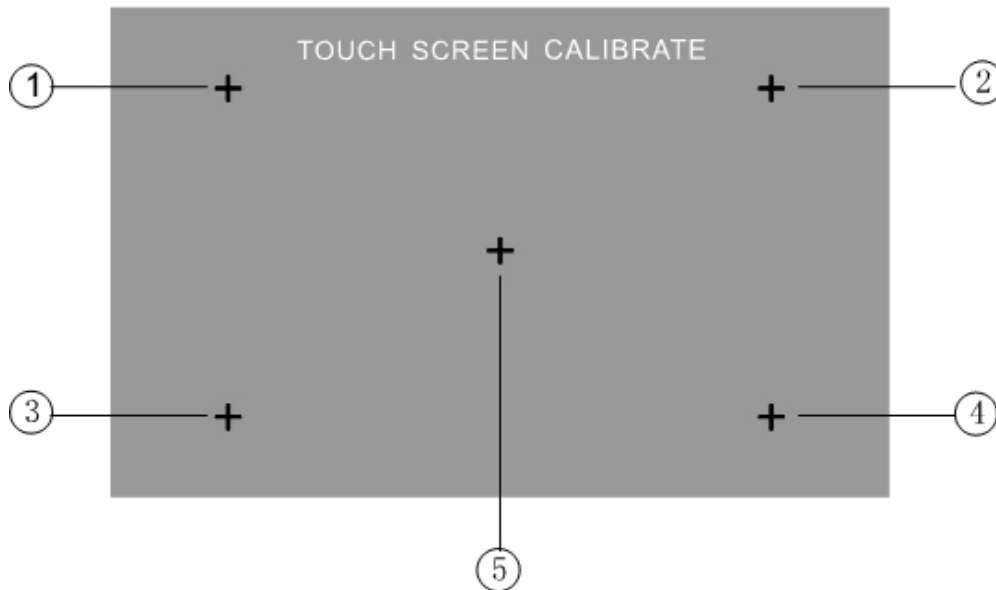
1. Pull out the battery holder. Follow the arrow 1 slide it to the right toward the battery while at the same time pull the battery holder away from the remote control.
2. Place the new battery. Place the new lithium battery with the (+) side up.
3. Push the holder back. Using the finger to push in the holder back until the locking sound is heard.



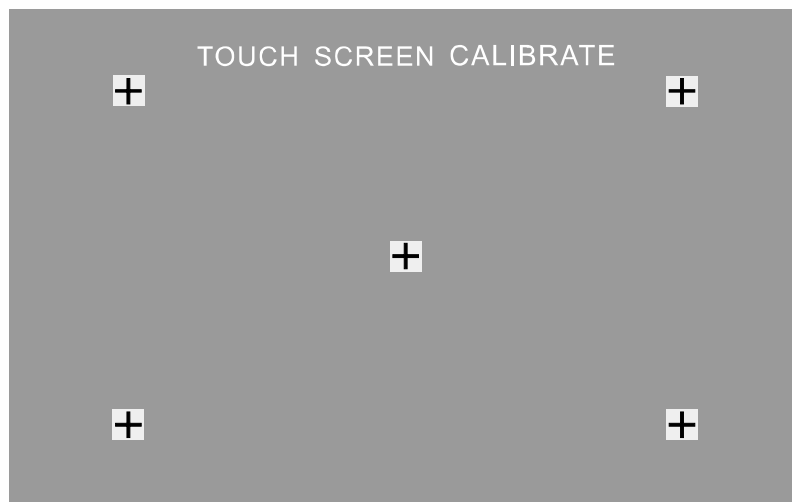
TOUCH SCREEN OPERATIONS

TOUCH SCREEN CALIBRATE

When "Power Off", press the buttons 1, 2, 3, 4, 5, [BAND] of remote control to enter the CALIBRATE page:



To touch the points from 1 to 5 until the points change to brighter by using a ballpoint pen or pencil.



After all 5 points change to brighter, the unit would finish the CALIBRATE and power off again. Then the Touch Screen is restored to their default positions.

MAIN MENU

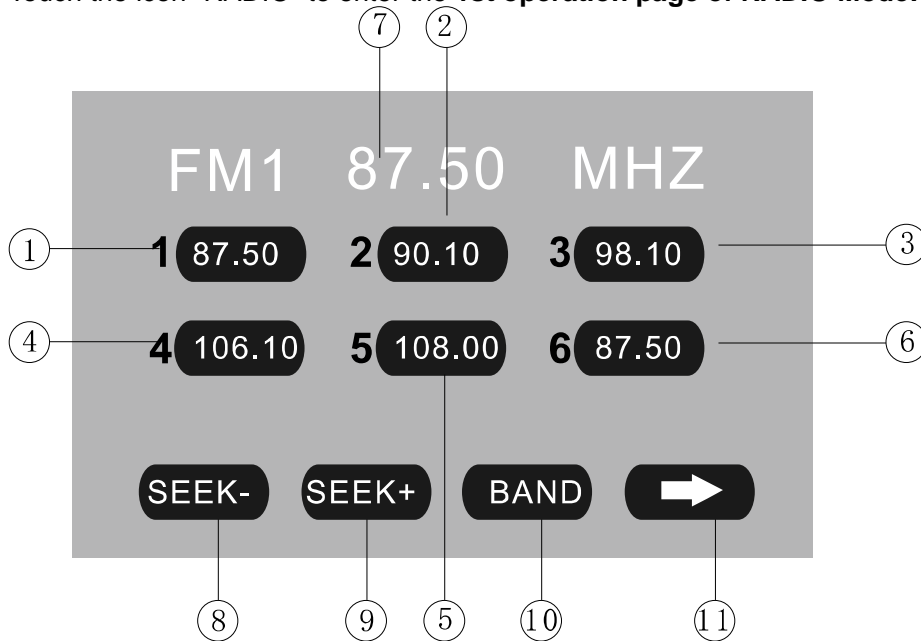


Touch the icon “MORE” to enter the 2nd page of main menu:



RADIO OPERATIONS

Touch the icon "RADIO" to enter the **1st operation page of RADIO Mode:**



1~6. STORED CHANNEL

Manual Store Radio Station

Hold on touching the icon, you can store current radio frequency to the stored channel. For example, the current frequency is 98.5MHZ, by hold on touching the icon 1, you can store the radio station of 98.5MHZ to the channel 1.

After manual store radio station, the former stored stations will be instead.

In each wave band, the number icons 1 to 6 represent the stored radio stations.

To hold on pressing the number buttons 1~6 of remote control performs same operation.

Recall a Preset Station

Touch the icon 1~6 to recall the corresponding stored station in M1~M6 channels.

To press the number buttons 1~6 of remote control performs same operation.

7. FREQUENCY

8. SEEK - / 9. SEEK +

Touch the icon to seek the next available channel by increasing / decreasing the tuning frequency.

Press any button to stop seeking.

Seeking will stop automatically when seek an available channel then play this station.

The unit will stop on the beginning frequency if no available station after seeking one cycle.

To hold on pressing [>] / [<] buttons of remote control performs same operation.

10. BAND

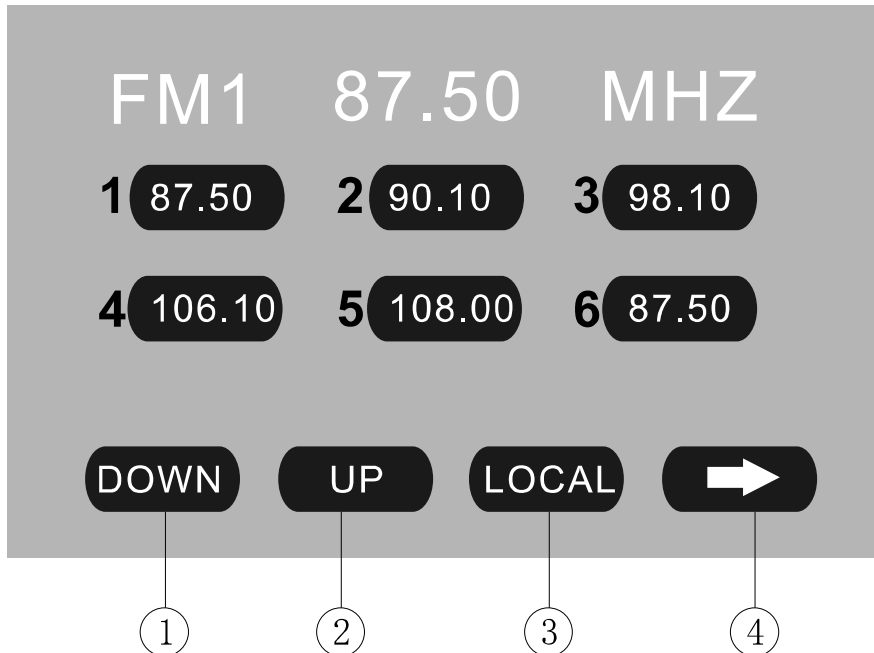
Touch the icon to switch the FM/AM wave band as following:

FM1 - FM2 - FM3 - AM1- AM2 - FM1

To press the [BAND] button of panel or remote control performs same operation.

11. NEXT PAGE

Touch the icon to enter the 2nd page of RADIO Mode:



1. DOWN / 2. UP

Touch the icons to adjust the frequency downward / upward by step decreasing / increasing.

Hold on touching the icons has same function with [SEEK-] / [SEEK+].

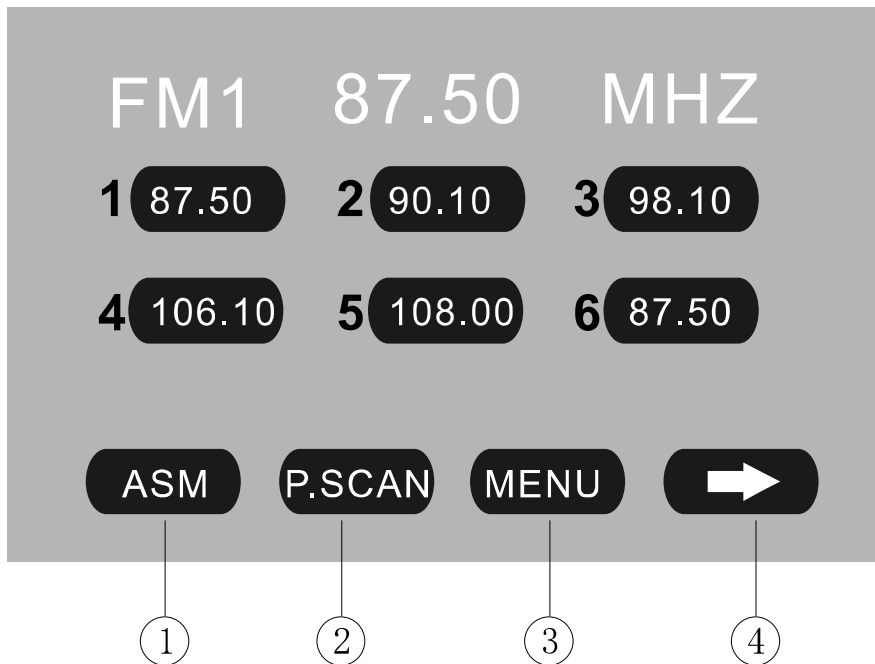
To press the [V] / [Λ] buttons of remote control performs same operation.

3. LOCAL: ON / OFF

When you are using the local searching function of LOCAL, you can only receive the radio station with strong enough signals and fine state.

4. NEXT PAGE

Touch the icon to enter the 3rd page of RADIO Mode:



1. ASM

Seeking and store the stations

1. Hold on touching the icon to seek stations with the strongest signal from the lowest frequency point in the entire wave bands; press any button to stop seeking. After seeking, the former stored stations will be instead.
2. Store the received effective radio frequency to the six stored channels M1~M6.
3. The unit will play the stations one by one for few seconds; press any button to stop playing.
4. It is independent for FM & AM frequency. There are 3 wave bands of FM1、FM2、FM3 & 2 wave bands of AM1、AM2, each can store 6 radio stations, totally 30 radio stations.
5. The unit will stop on the beginning frequency if no available station after seeking one cycle.
6. To press the [AST] button of panel or hold on pressing the [PBC/AST] button of remote control performs same operation.

2. P.SCAN

The unit will play the stored stations one by one for few seconds from FM1, FM2, FM3, AM1, AM2; press any button to stop playing.

3. MENU

Touch the icon to return the main menu.

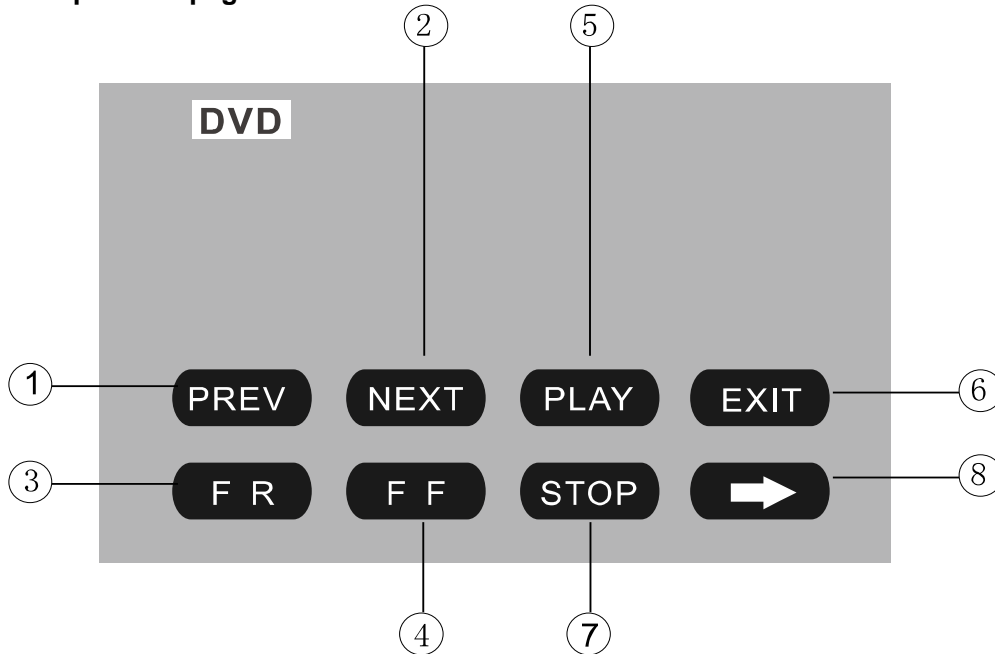
4. NEXT PAGE

Touch the icon to enter the 1st page of RADIO Mode.

DVD OPERATIONS

Touch the icon "DVD" to enter the DVD Mode if disc inside.
The unit will switch to DVD Mode automatically if loading disc.
The unit will switch to RADIO Mode automatically if ejecting disc.

1st operation page of DVD Mode:



1. PREV / 2. NEXT

Touch the icon to go to the pervious / next chapter, track or song.
To press the [Previous] / [Next] buttons of remote control performs same operation.

3. F.REV / 4. F.FWD

Touch the icon to select fast reverse / forward search. Touch the [PLAY] icon to resume to normal playback.
To press the [F.REV] / [F.FWD] buttons of remote control performs the same operation.

5. PLAY

Touch the icon to play or pause the disc.
To press the [PLAY/PAUSE] button of panel or remote control performs the same operation.

6. EXIT

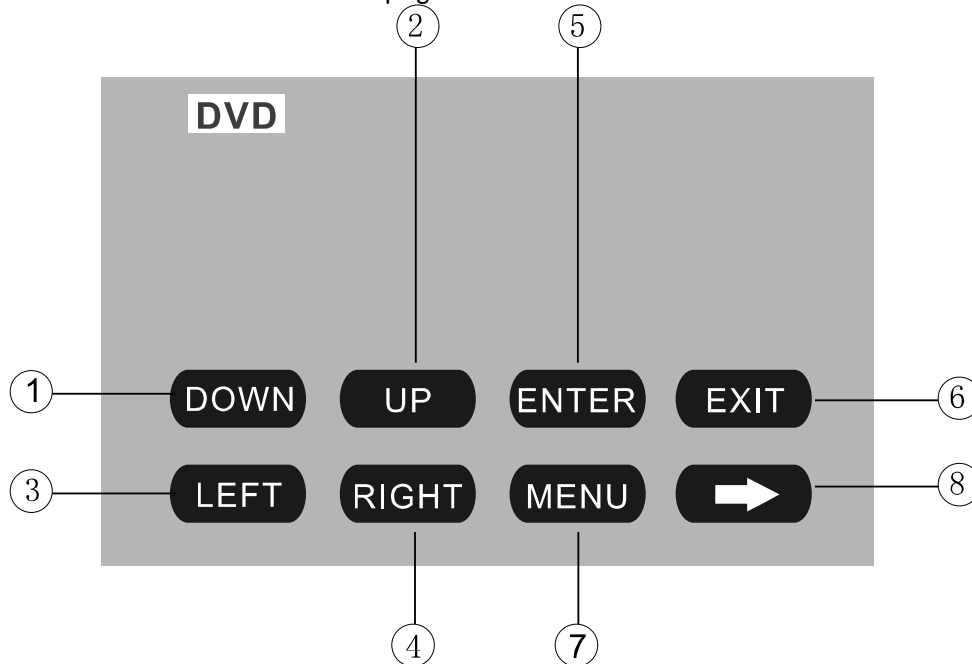
Touch the icon to exit the TOUCH ICONS display.

7. STOP

During movie playback, touch the icon once; the DVD player memorizes the location where you stopped (touch the [PLAY] icon to resume playing from the memorized location). If you touch the icon twice, the playback will start from the beginning of the disc when you touch the [PLAY] icon.
To press the [STOP] button of remote control performs the same operation.

8. NEXT PAGE

Touch the icon to enter the 2nd page of DVD Mode:



1~4. DOWN / UP / LEFT / RIGHT

Touch the direction icons (UP / DOWN / LEFT / RIGHT) to move the cursor to the selected item.

To press the direction buttons (UP / DOWN / LEFT / RIGHT arrow) of remote control performs same operation.

5. ENTER

Touch the icon to confirm the selection.

To press the [ENTER] button of remote control performs same operation.

6. EXIT

Touch the icon to exit the TOUCH ICONS display.

7. MENU

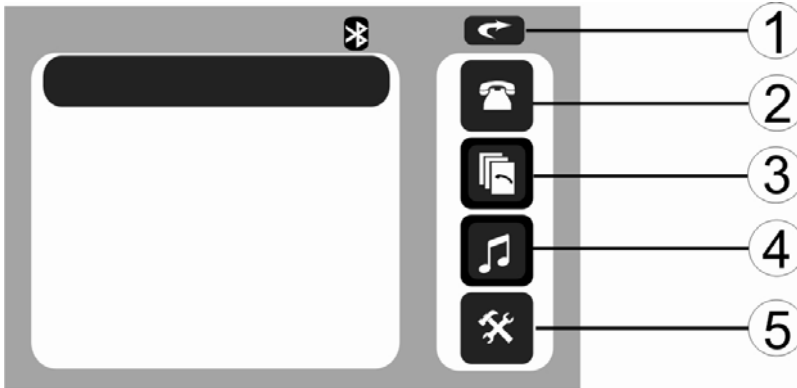
Touch the icon to return the main menu.

8. NEXT PAGE

Touch the icon to enter the 1st page of DVD Mode.

BLUETOOTH OPERATIONS

Touch the BLUETOOTH icon to enter the Bluetooth mode:



1, RETURN
4, AUDIO

2, PHONE CALL
5, SETTINGS

3, PHONEBOOK

1, RETURN

Touch the icon to return the MAIN MENU.

To press the [DISPLAY] button of remote control performs same operation.

2, PHONE CALL

Touch the icon to enter the phone calling.

3, PHONE BOOK

Touch the icon to enter the phone book lookup.

4, AUDIO

Touch the icon to enter the audio device operation.

5, SETTINGS

Touch the icon to enter the Bluetooth settings.

NOTE:

To press the [BAND] button of remote control to toggle between the different working pages as following:

PHONE CALL – PHONE BOOK – AUDIO – SETTINGS – PHONE CALL

SETTINGS



1, INFORMATION DISPLAY 2, AUTO ANSWER 3, PHONEC CONNECT
4, PHONE PAIRING 5, AUDIO PARING 6, PIN CODE

NOTE:

Touch the icon 2~6, when item is changed to blue color, the item is selected. And touch it again and the item is changed to red color, the operation is active.

To press the [V] / [Λ] buttons of remote control to select the item, and the item would be changed to blue color; To press the [<] / [>] buttons of remote control to activate the operation, and the item would be changed to red color.

1, INFORMATION DISPLAY

2, AUTO ANSWER

Touch the icon to select auto / manual answer when call is coming.

3, PHONEC CONNECT

Touch the icon to select auto / manual phone connect when return back the car.

4, PHONE PAIRING

Touch the icon, then see the below words on information display:

PHONE PAIR WAITING

Then set the phone to pair with unit.

Touch the icon again to cancel the pairing, and see the below words on information display:

PHONE PAIR FAIL

When paring finished, set the phone connect with unit, then you can see the phone name on information display.

To press the [PHONE PAIR] button of remote control under SETTINGS page performs same operation.

5, AUDIO PARING

Touch the icon, then see the below words on information display:

AUDIO PAIR WAITING

Then set the audio device to pair with unit.

Touch the icon again to cancel the pairing, and see the below words on information display:

AUDIO PAIR FAIL

When paring finished, set the audio device connect with unit, then you can see the audio device name on information display.

To press the [MUSIC PAIR] button of remote control under SETTINGS page performs same operation.

6, PIN CODE

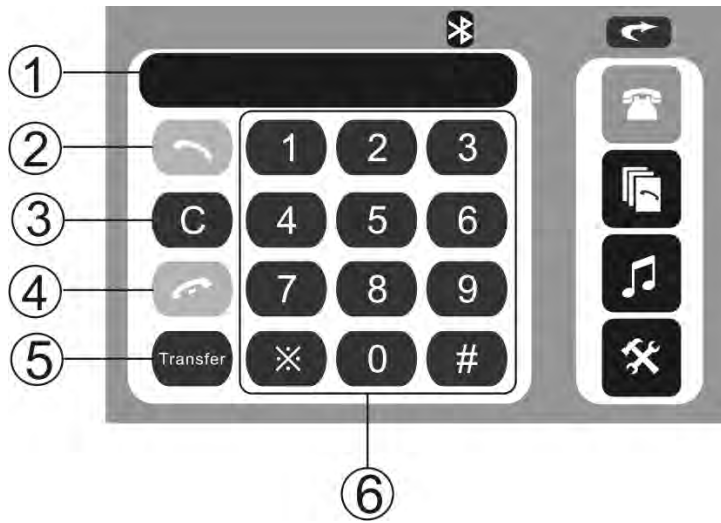
You can change the PIN code by remote control. Press the [CLR] key of remote control to clear the PIN code, and input the new 4 digitals number, press the [SETUP] of remote control to save the new code.

NOTE:

The unit can pair with totally 5 different devices including cell phones and audio players.

- 1, When you want to connect another paired cell phone with unit, to press the [PHONE] button of remote control to disconnect the current connecting cell phone; use the another cell phone to connect with the unit without paring operations.
- 2, When you disconnected the current connecting cell phone, also you can press the [PHONE] button of remote control to connect the cell phone with the unit again.
- 3, When you want to connect another paired audio player with unit, to press the [AUDIO PLAYER] button of remote control to disconnect the current connecting audio player; use the another audio player to connect with the unit without paring operations.
- 4, When you disconnected the current connecting audio player, also you can press the [AUDIO PLAYER] button of remote control to connect the audio player with the unit again.

PHONE CALL



1, INFORMATION DISPLAY

4, END CALL

2, CALL

5, TRANSFER

3, CLEAR

6, NUMBER KEYS

1, INFORMATION DISPLAY

2, CALL

To touch the icon to call a number or to receive a cell phone call.

To press the [CALL] button of remote control performs same operation.

3, CLEAR

To touch the icon to cancel or clear the numbers you have input.

To press the [CLEAR] button of remote control performs same operation.

4, END CALL

To touch the icon to reject or hang up a call.

To press the [END CALL] button of remote control performs same operation.

5, TRANSFER

When talking the phone, touch the icon to transfer the call between the unit and your cell phone.

To press the [TRANSFER] button of remote control performs same operation.

6, NUMBER KEYS

To touch the icon to enter a phone number.

To press the number buttons of remote control performs same operation.

CALLING OUT

When call out, you will see the below information:

CALL OUT,*****

Then when talking, you will see the below information:

TALKING,*****

And end the call, you will see the below information:

END CALL,*****

CALLING IN

When call in, you will see the below image:



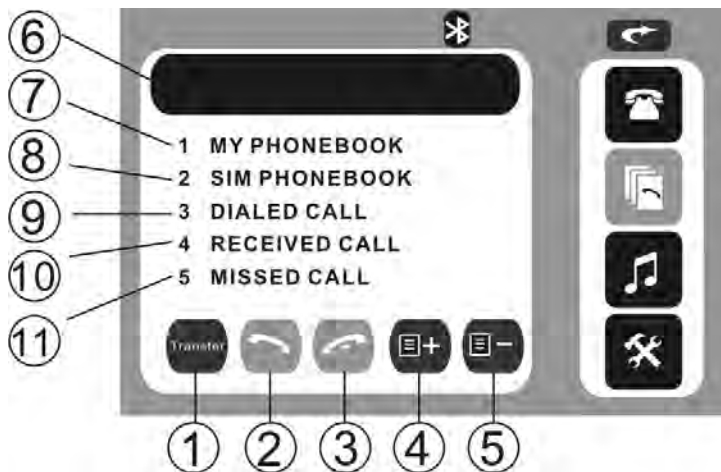
Then when talking, you will see the below image:



And when end the call, you will see the below image:



PHONEBOOK



- | | | |
|-------------------|------------------|------------------------|
| 1, TRANSFER | 2, CALL | 3, END CALL |
| 4, PREVIOUS PAGE | 5, NEXT PAGE | 6, INFORMATION DISPLAY |
| 7, MY PHONEBOOK | 8, SIM PHONEBOOK | 9, DIALED CALL |
| 10, RECEIVED CALL | 11, MISSED CALL | |

NOTE:

Touch the icon 7~11, when item is changed to blue color, the item is selected. And touch it again and the item is changed to red color, the operation is active.

To press the [V] / [Λ] buttons of remote control to select the item, and the item would be changed to blue color; To press the [<] / [>] buttons of remote control to activate the operation, and the item would be changed to red color.

1, TRANSFER

When talking the phone, touch the icon to transfer the call between the unit and your cell phone.

To press the [TRANSFER] button of remote control performs same operation.

2, CALL

To touch the icon to call a number or to receive a cell phone call.

To press the [CALL] button of remote control performs same operation.

3, END CALL

To touch the icon to reject or hang up a call.

To press the [END CALL] button of remote control performs same operation.

4~5, PREVIOUS PAGE / NEXT PAGE

There are 5 numbers in each page, touch the icon to see previous / next page.
To press the [PBP] / [PBN] buttons of remote control performs same operation.

6, INFORMATION DISPLAY

7, MY PHONEBOOK

The phone numbers are stored in phone.

8, SIM PHONEBOOK

The phone numbers are stored in SIM card.

9, DIALED CALL

The phone numbers are dialed in phone.

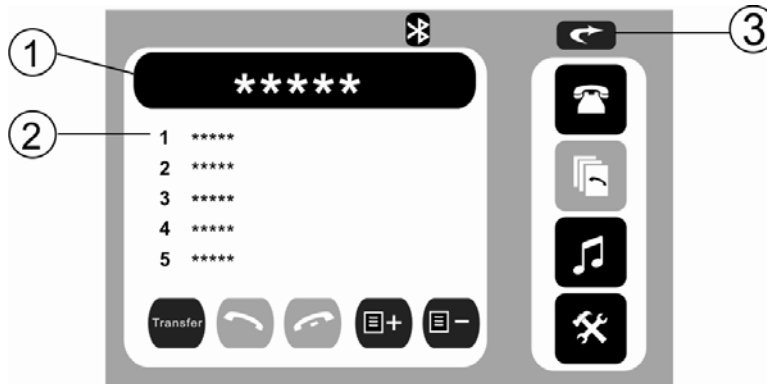
10, RECEIVED CALL

The phone numbers are received in phone.

11, MISSED CALL

The phone numbers are missed in phone.

Touch the icon to enter the phonebook, you will see the below image:



1, INFORMATION DISPLAY

2, CURRENT PHONE NUMBER

3, RETURN

NOTE:

Touch the icon 2, when item is changed to blue color, the item is selected.

To press the [V] / [Λ] buttons of remote control to select the item and the item would be changed to blue color.

1, INFORMATION DISPLAY

You will see the phone number of the item in blue color.

2, CURRENT PHONE NUMBER

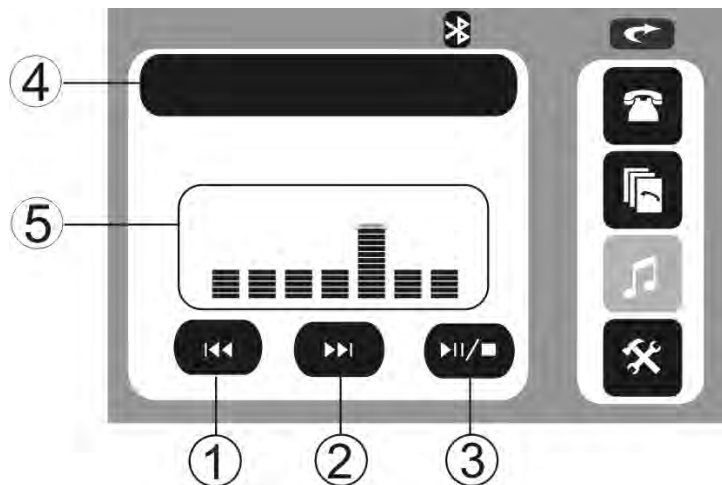
If this number is stored, you will see the name; if not, you will see the phone number.

3, RETURN

Touch the icon to return to PHONE BOOK page.

To press the [DISPLAY] button of remote control performs same operation.

AUDIO



1, PREVIOUS 2, NEXT 3, PLAY / PAUSE
4, INFORMATION DISPLAY 5, EQUALIZER DISPLAY

1, PREVIOUS

Touch the icon to select the previous track.

To press the [PREVIOUS] button of remote control performs same operation.

2, NEXT

Touch the icon to select the next track.

To press the [NEXT] button of remote control performs same operation.

3, PLAY / PAUSE

Touch the icon to pause playback when playing; touch it again to continue playing.

To press the [PLAY / PAUSE] button of remote control performs same operation.

4, INFORMATION DISPLAY

It could be displayed the name of connecting audio device.

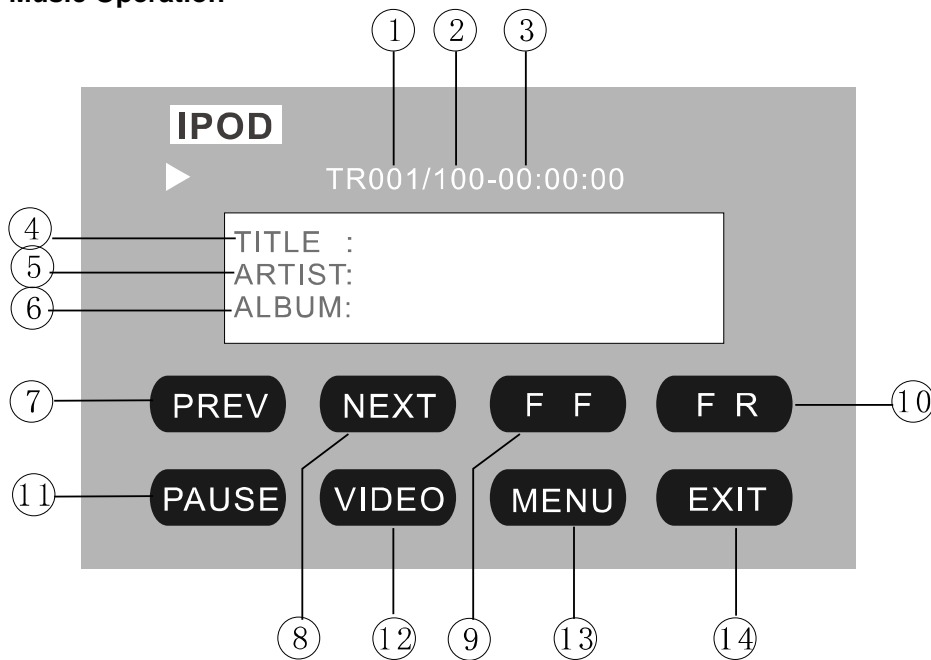
IPOD OPERATIONS

Touch the icon "IPOD" to enter the IPOD Mode if iPod connected.
The unit will switch to IPOD Mode automatically if connecting iPod.
The unit will switch to RADIO Mode automatically if disconnecting iPod.

NOTE:

It is available for iPod operations with an additional iPod cable which is optional accessory.

Music Operation



1. The Number of Playing Song
2. The Total Songs in Play List
3. The Playing Time
4. The Name of Playing Song
5. The Name of Artist
6. The Name of Album

7. PREV / 8. NEXT

Touch the icon to go to the pervious / next chapter, track or song.

To press the [PREVIOUS] / [NEXT] buttons of remote control performs same operation.

9. F.REV / 10. F.FWD

Hold on touching the icon to select fast reverse / forward search. Touch the [PLAY] to resume to normal playback.

To press the [F.REV] / [F.FWD] buttons of remote control performs the same operation.

11. PLAY / PAUSE

Touch the icon to play or pause the disc.

To press the [PLAY/PAUSE] button of panel or remote control performs the same operation.

12. VIDEO

Touch the icon to switch to the VIDEO operation.

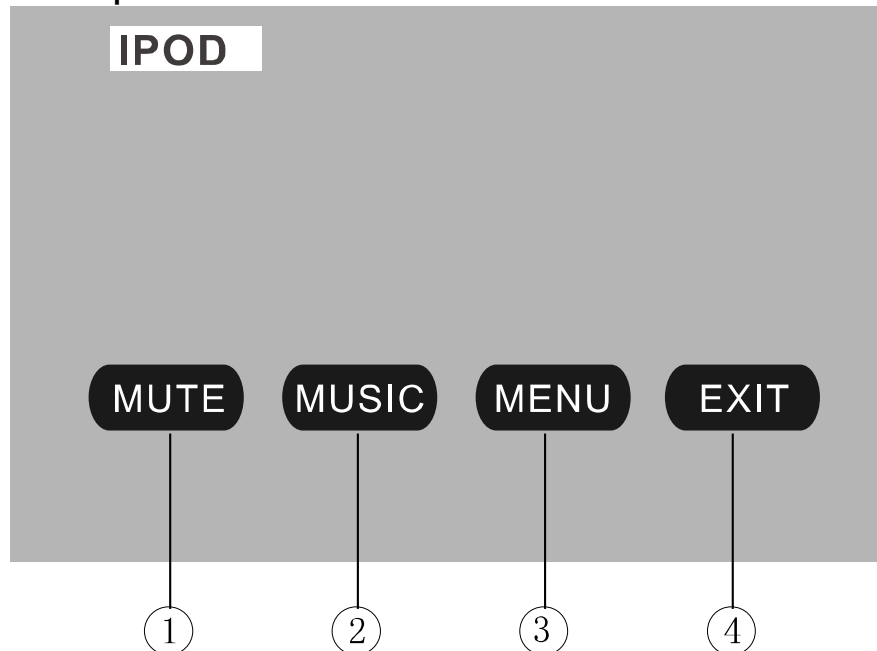
13. MENU

Touch the icon to return the main menu.

14. EXIT

Touch the icon to exit the TOUCH ICONS display.

Video Operation



1. MUTE

Touch the icon to switch off the sound; touch it again to resume to the previous volume level.

2. MUSIC

Touch the icon to switch to the MUSIC operation.

3. MENU

Touch the icon to return the main menu.

4. EXIT

Touch the icon to exit the TOUCH ICONS display.

SD CARD OPERATIONS

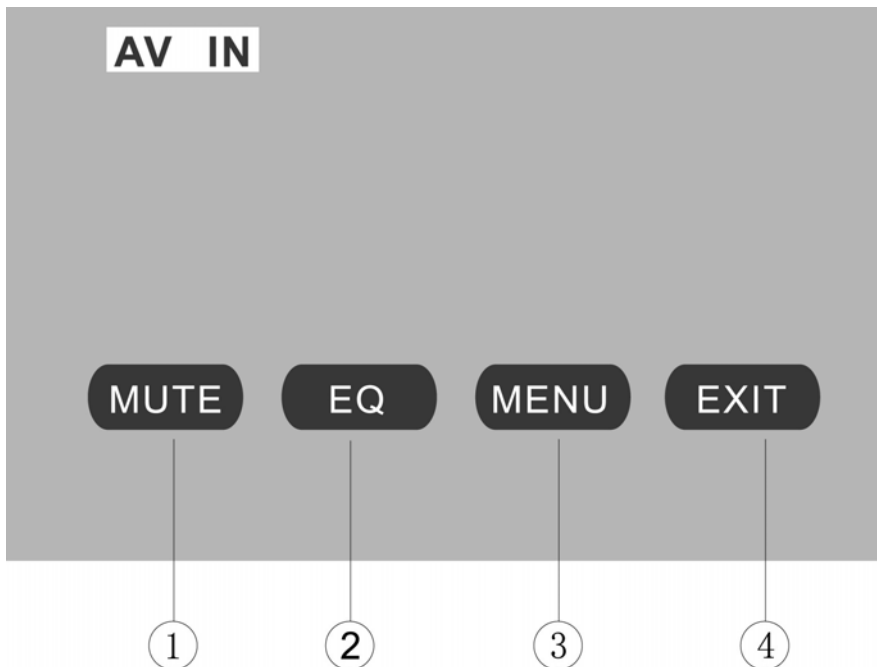
1. Touch the [SD CARD] icon to access to SD CARD Mode if SD / MMC Card inserted.
2. The unit will switch to SD CARD Mode automatically if SD / MMC Card connected.
3. When SD / MMC Card disconnected, the unit will switch to RADIO Mode automatically if there is no disc in the unit; the unit will switch to DVD Mode automatically if there is a disc in the unit.
4. Under the SD CARD Mode, all operations are same as DVD Mode.

USB OPERATIONS

1. Touch the icon [USB] to access the USB Mode if USB connected.
2. The unit will switch to USB Mode automatically if USB connected.
3. When USB disconnected, the unit will switch to RADIO Mode automatically if there is no disc in the unit; the unit will switch to DVD Mode automatically if there is a disc in the unit.
4. Under the USB Mode, all operations are same as DVD operations.

AV IN OPERATIONS

Touch the icon “AV IN” to enter the AV IN Mode:



1. MUTE

Touch the icon to switch off the sound; touch it again to resume to the previous volume level.

2. EQ

The user can set to adjust the audio output to your preference:
USER – POP – CLASSIC – ROCK – JAZZ – USER

3. MENU

Touch the icon to return the main menu.

4. EXIT

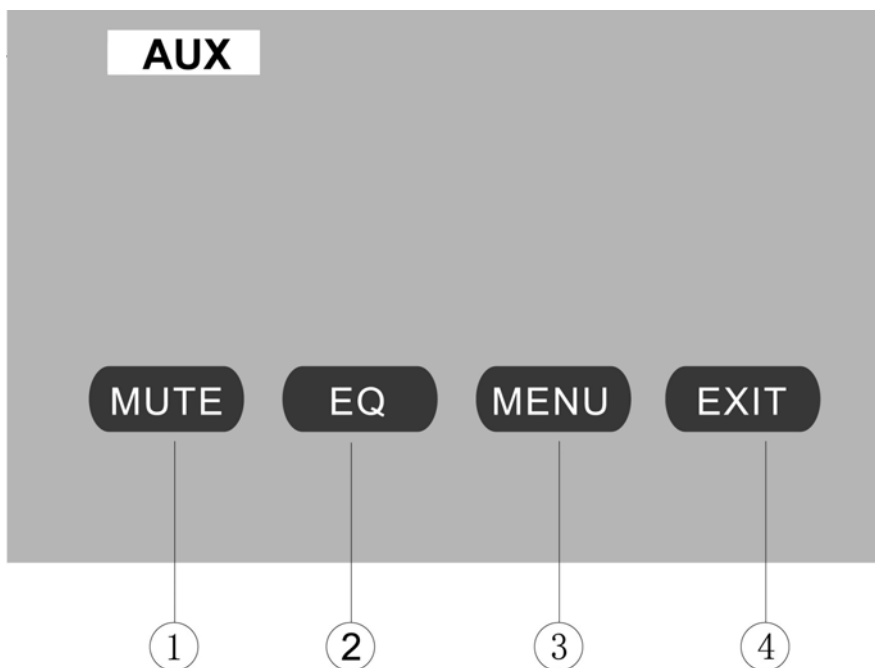
Touch the icon to exit the TOUCH ICONS display.

NOTE:

There are 2 RCA Audio Inputs & 1 RCA Video Input for unit.

AUX OPERATIONS

Touch the icon “AUX” to enter the AUX Mode:



1. MUTE

Touch the icon to switch off the sound; touch it again to resume to the previous volume level.

2. EQ

The user can set to adjust the audio output to your preference:

USER – POP – CLASSIC – ROCK – JAZZ – USER

3. MENU

Touch the icon to return the main menu.

4. EXIT

Touch the icon to exit the TOUCH ICONS display.

NOTE:

Connect an external audio device to AUX IN jack to listen to the device through your car speakers.

NAVI OPERATIONS (Optional)

Touch Screen Calibration

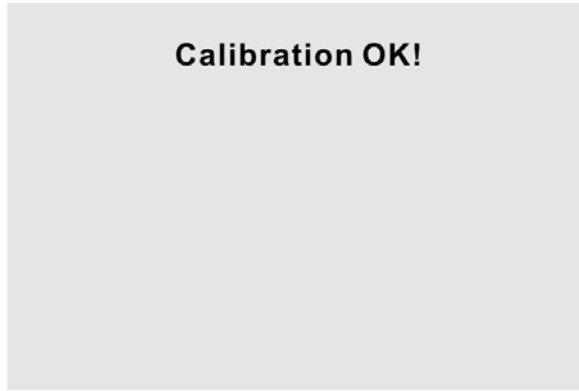
When 1st time to enter NAVI mode, you will see the calibration screen. Please touch the points from 1 to 5 by using a ballpoint pen or pencil.



To verify the calibration, please touch the points from 1 to 5 again.



Then the following screen is displayed:



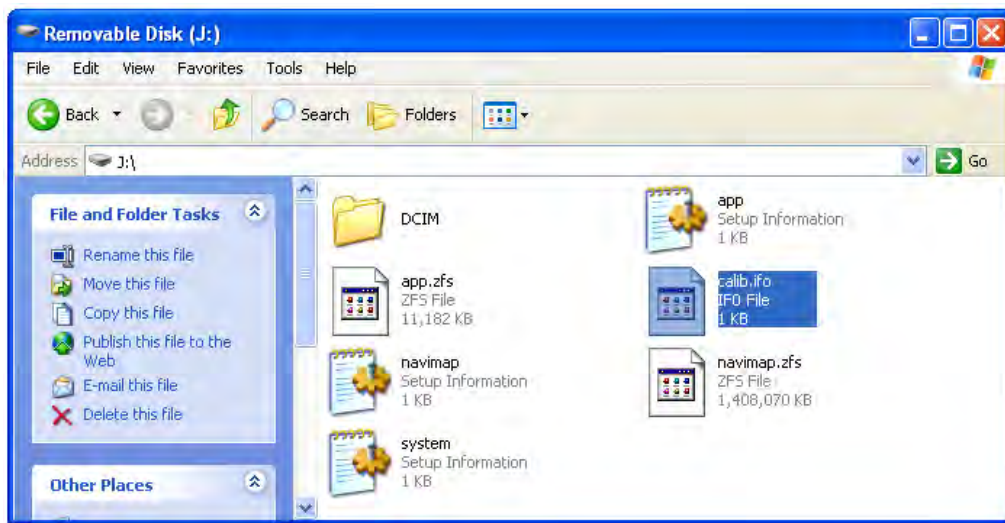
The Touch Screen is restored to their default positions. Touch anywhere of panel to finish the calibration and go to the following screen:



Read information and touch “I agree” button at the bottom of the screen, then enter the NAVI mode.

NOTE:

If change the NAVIbox to connect another unit, please take out the SD card from the NAVIbox and connect with computer, the following screen is displayed on computer:

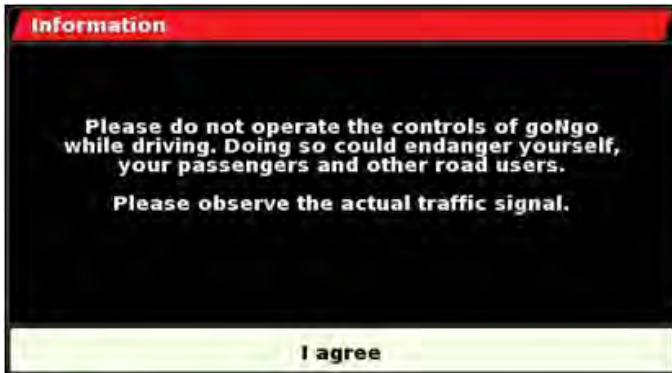


Delete the file “**calib.ifo**” only. Insert the SD card into NAVIbox again, and connect the NAVIbox with another unit.

Go to NAVI mode

Touch the icon “NAVI” to enter the NAVI Mode if NAVIBOX connected:

Following screen will be displayed:



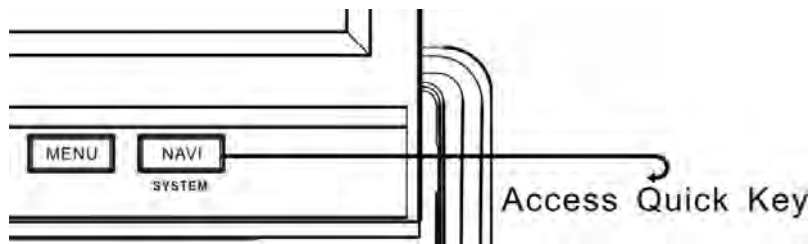
Read information and touch “I agree” button at the bottom of the screen.

Enter the NAVI mode by main menu, the NAVI operations are effective only, all other processes are disable such as Radio, CD etc.

NOTE:

Under NAVI mode, please view all operations by Navigation Device NAVIBOX-1 User’s manual.

Quick Access Key [NAVI]

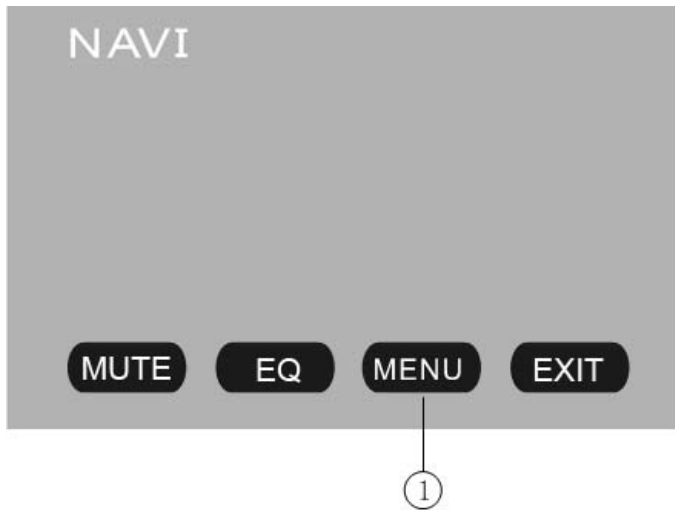


Under any working mode, press the [NAVI] button to switch to NAVI mode; press the [NAVI] button again to return the previous working mode. For example, under Radio mode, press the [NAVI] button to switch to NAVI mode; press the [NAVI] button again to quit the NAVI mode and return back the Radio mode.

Enter the NAVI mode by Quick Access Key, the previous working mode is still working on background. For example, under Radio mode, press the [NAVI] button to switch to NAVI mode, and you can still listen to the radio stations. But when voice of Navigation comes, the radio will be interrupted until voice of Navigation ends.

No NAVIbox Connection

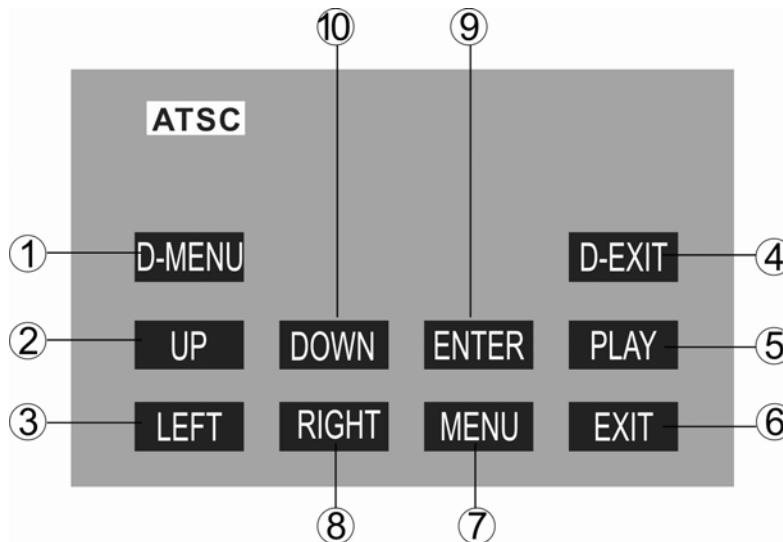
Touch the "NAVI" icon to enter the following screen if the NAVIbox not connected:



1. MENU
Touch the icon to return the main menu.

ATSC OPERATIONS(Optional)

Touch the icon "ATSC" to enter the ATSC Mode:



1. D-MENU
Touch to display the menu of TV OSD.

2. UP

Touch to select another TV available station upward.
Under the TV OSD, touch to move the cursor up direction.

3. LEFT

Touch to decrease the TV volume.
Under the TV OSD, touch to move the cursor left direction.

4. D-EXIT

Touch to exit the menu of TV OSD.

5. PLAY

Touch to stop the playing, touch again to start the currently playing.

6. EXIT

Touch to exit the TOUCH ICONS display.

7. MENU

Touch to return the main menu.

8. RIGHT

Touch to increase the TV volume.
Under the TV OSD, touch to move the cursor right direction.

9. ENTER

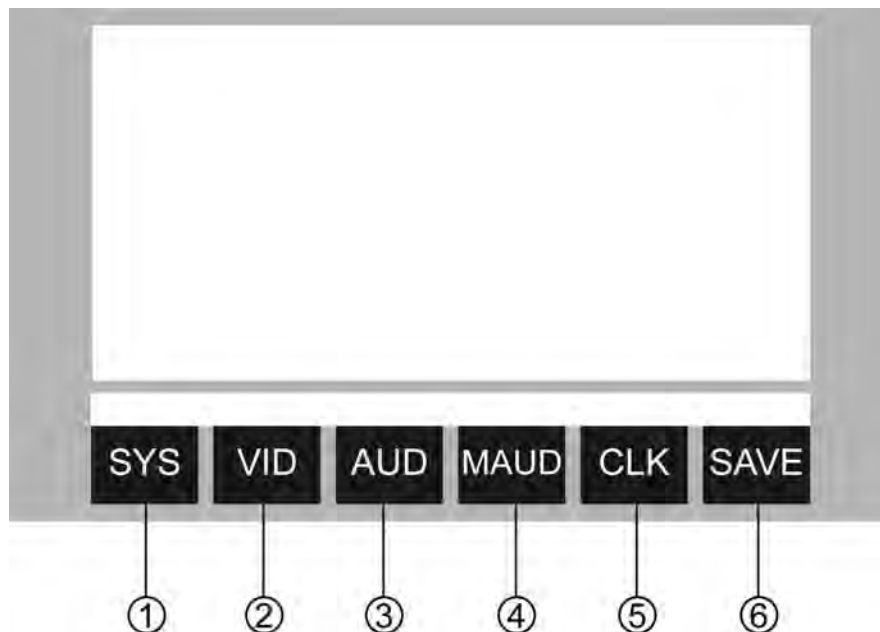
Touch to confirm the selection of TV OSD.

10. DOWN

Touch to select another TV available station downward.
Under the TV OSD, touch to move the cursor down direction.

SYSTEM SETUP

Touch the icon "SETUP" or hold on pressing the [SYSTEM] button of panel to enter the SETUP of system parameters:



1. **SYSTEM SETUP**
2. **VIDEO SETUP**
3. **AUDIO SETUP**
4. **MORE AUDIO SETUP**
5. **CLOCK SETUP**

Touch the icon 1~5 to select the main menus directly.

6. SAVE SETTINGS

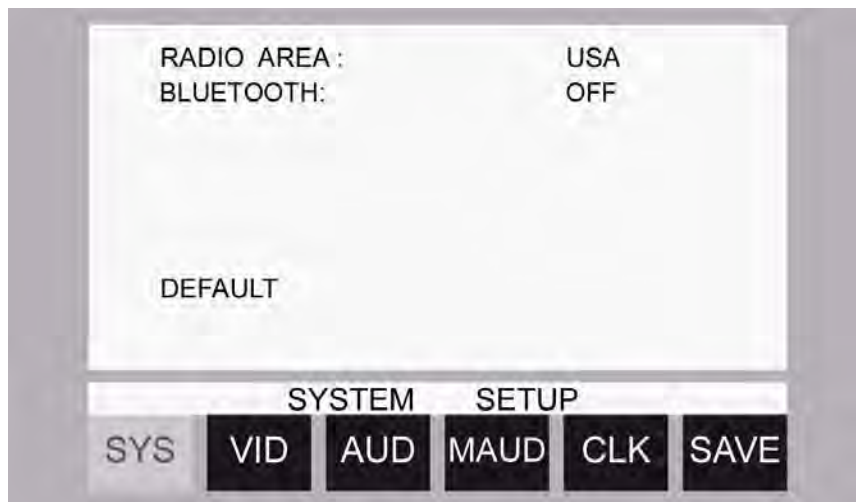
Touch the icon 5 to save all settings and exit SETUP.

SETUP MENU OPERATION

Press the [BAND] button of remote control to switch the main menus as following:
SYSTEM – VIDEO – AUDIO – MORE AUDIO – CLOCK – SYSTEM

Press the [√] / [^] buttons of remote control to select the item you want to change.
 Press the [<] / [>] buttons of remote control to change the value of item.
 Holding on pressing the [SYSTEM] button of panel to exit SETUP of system parameters.

SYSTEM SETUP

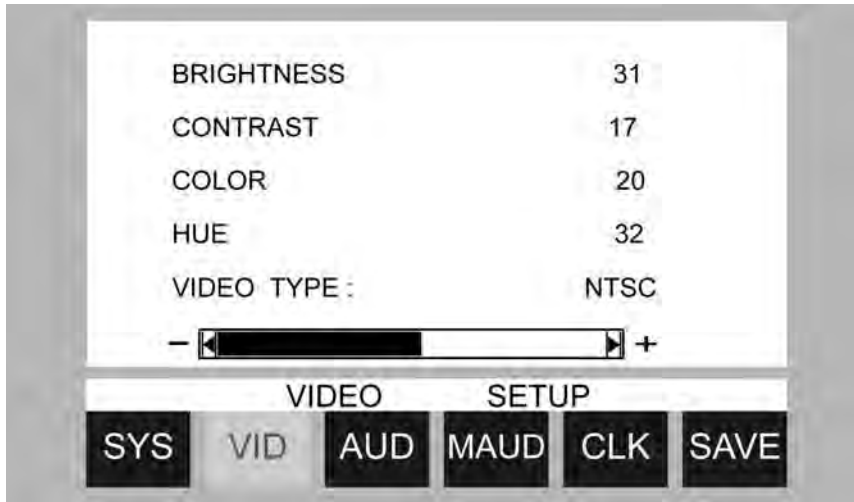


RADIO AREA: USA – JAPAN – OIRT – EUROPE – ASIA – USA

BLUETOOTH: ON/OFF

DEFAULT: The unit will restore all default settings of Sound Parameter, Picture Parameter & Tuner Parameter.

VIDEO SETUP

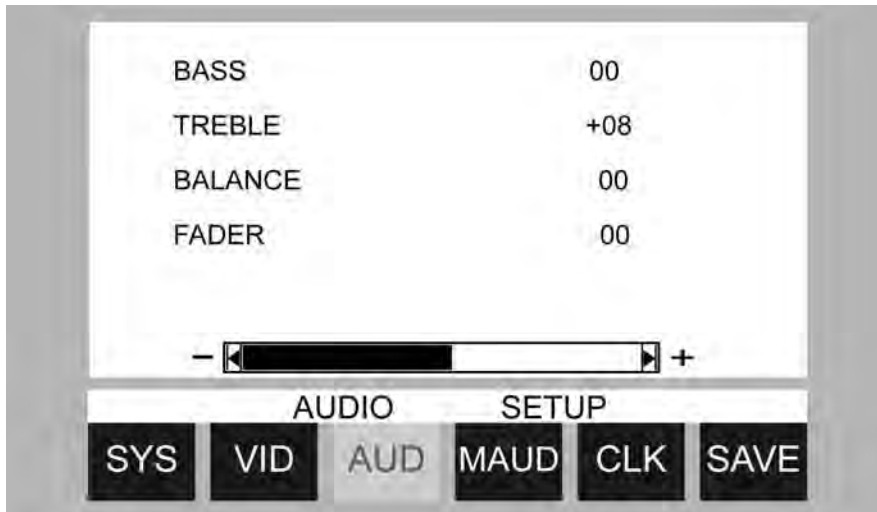


BRIGHTNESS: 0 ~ 64
CONTRAST: 0 ~ 64
COLOR: 0 ~ 64
HUE: 0 ~ 64
VIDEO TYPE: NTSC – PAL – AUTO – NTSC

NOTE:

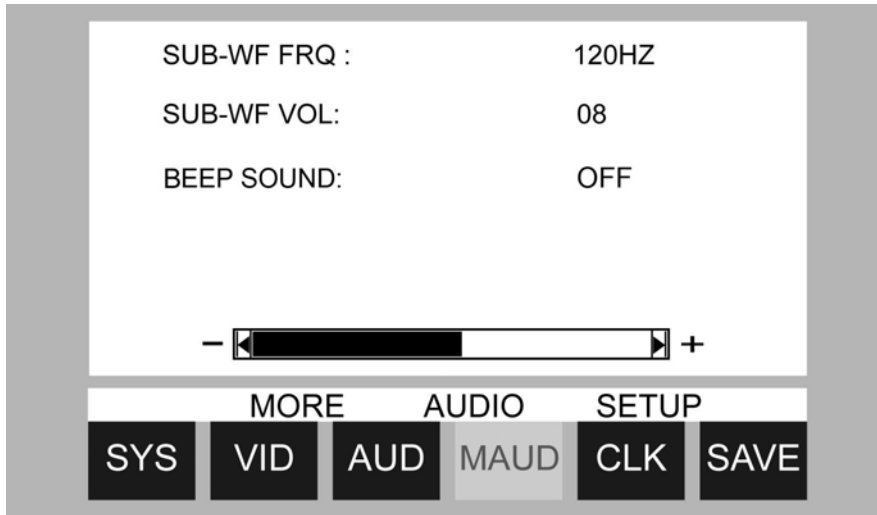
It is available to setup of HUE under NTSC VIDEO TYPE only.

AUDIO SETUP



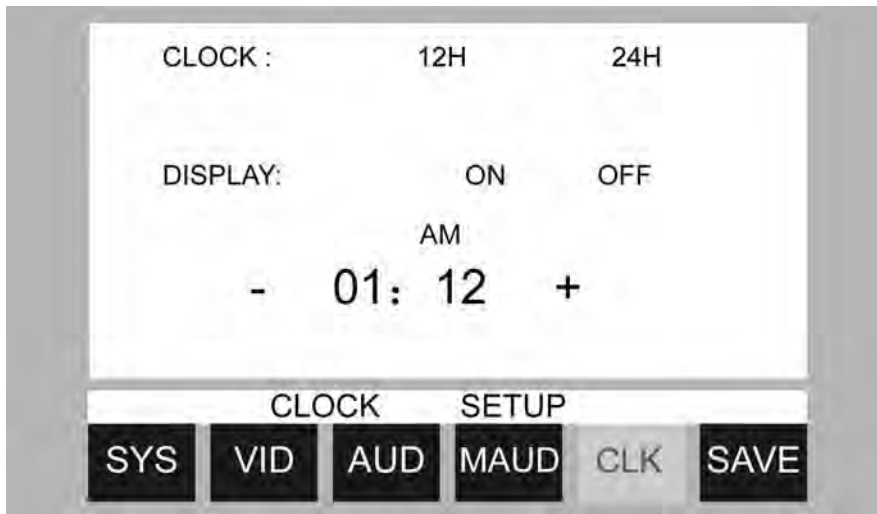
BASS: - 15 ~ + 15
TREBLE: - 15 ~ + 15
BALANCE: L 15 ~ R 15
FADER: F 15 ~ R 15

MORE AUDIO SETUP



SUB-WF FRQ: 80HZ – 120HZ – 160HZ – OFF – 80HZ
SUB-WF VOL: 0 ~ 15
BEEP SOUND: ON / OFF

CLOCK SETUP



CLOCK: 12H / 24H
DISPLAY: ON / OFF
HOUR: 00 ~ 23
MINUTE: 00 ~ 59

DVD SETUP MENU

SETUP MENU OPERATION

Press the [SETUP] button of remote control to enter the DVD SETUP Menu.

Press the [<] / [>] buttons to switch the main menus as following:

SYSTEM – LANGUAGE – AUDIO – VIDEO – SPEAKER – DIGITAL

Press the [^] / [v] buttons to enter the submenus from main menus.

Press the [^] button on the top submenu or press the [v] button on the bottom of submenu to exit the submenus to main menus.

Press the [^] / [v] buttons to select the submenus as your need.

Press the [>] or [ENTER] buttons to enter the items of submenus.

Press the [<] button to exit the items of submenus.

Press the [v] / [^] buttons to select the item you want to change.

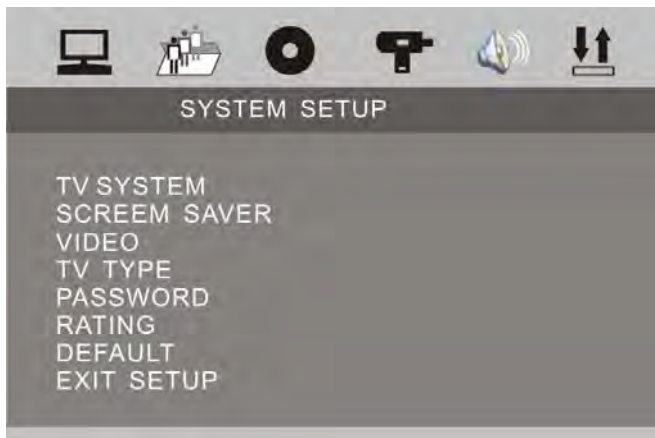
Press the [ENTER] button to confirm the item you have selected and exit to the submenus.

Press the [SETUP] button of remote control or press the [ENTER] button on the submenu EXIT SETUP to exit the DVD SETUP Menu and save all settings.

NOTE:

Effective only DVD, USB, SD CARD Mode.

SYSTEM MENU



TV SYSTEM

Following options are available for the TV Display:
NTSC

SCREEN SAVER

Select ON or OFF.

VIDEO

Following options are available for the TV Display:

INTERLACE-YUV TV-RGB P-SCAN YPBPR S-VIDEO

TV TYPE

Following options are available for the TV Display:

4 : 3 PS 4 : 3 LB 16 : 9

PASSWORD

Setup the password for Parental Ratings change. The default password is 0000.

RATING

Following options are available for the Parental Ratings:

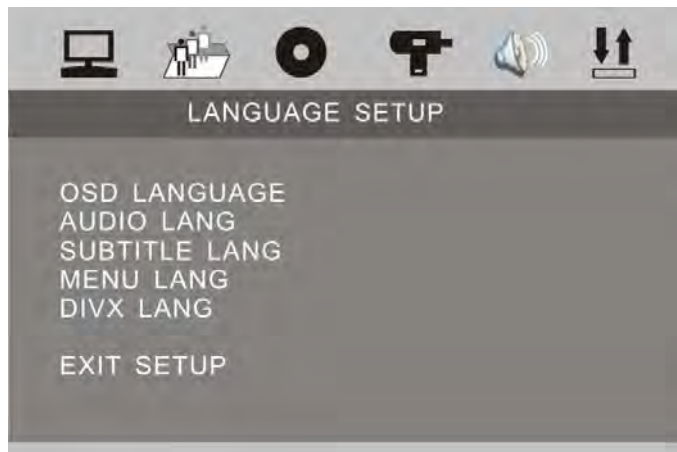
1 KID SAFE 2 G 3 PG 4 PG 13
5 PG - R 6 R 7 NC - 17 8 ADULT

The Parental Ratings could be changed after the correct password input.

DEFAULT

The unit will restore all default settings by selecting this option.

LANGUAGE SETUP



OSD LANGUAGE

Following options are available for the OSD LANGUAGE:

ENGLISH GERMAN SPANISH FRENCH PORTUGUESE
ITALIAN RUSSIAN DUTCH SWEDISH KOREAN
DANISH NORWEGIAN POLISH HUNGARIAN

AUDIO LANGUAGE

Following options are available for the AUDIO LANGUAGE:

ENGLISH	GERMAN	SPANISH	FRENCH	PORTUGUESE
ITALIAN	RUSSIAN	DUTCH	SWEDISH	KOREAN
DANISH	NORWEGIAN	POLISH	HUNGARIAN	

SUBTITLE LANGUAGE

Following options are available for the SUBTITLE LANGUAGE:

ENGLISH	GERMAN	SPANISH	FRENCH	PORTUGUESE
ITALIAN	RUSSIAN	DUTCH	SWEDISH	KOREAN
DANISH	NORWEGIAN	POLISH	HUNGARIAN	

MENU LANGUAGE

Following options are available for the MENU LANGUAGE:

ENGLISH	GERMAN	SPANISH	FRENCH	PORTUGUESE
ITALIAN	RUSSIAN	DUTCH	SWEDISH	KOREAN
DANISH	NORWEGIAN	POLISH	HUNGARIAN	

DIVX LANGUAGE

Following options are available for the DIVX LANGUAGE:

CENTRAL	EU
WESTERN	EU
KOREAN	

AUDIO SETUP



AUDIO OUT

Following options are available for the AUDIO OUT:

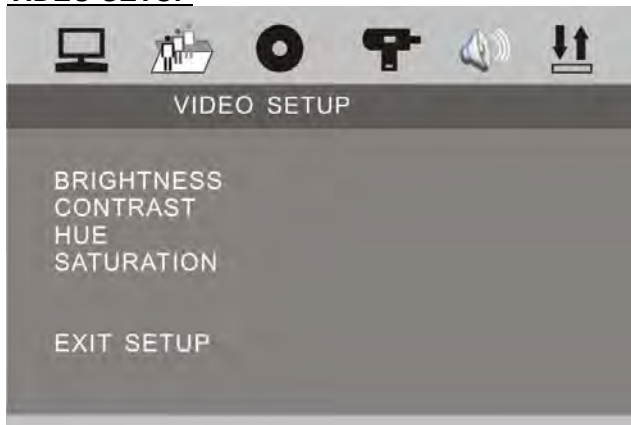
SPDIF / OFF	SPDIF / RAW	SPDIF / PCM
-------------	-------------	-------------

KEY

Following options are available for the KEY:

b	-4	-2	0	+2	+4	#
---	----	----	---	----	----	---

VIDEO SETUP



BRIGHTNESS

Following options are available for the BRIGHTNESS:
0 2 4 6 8 10 12

CONTRAST

Following options are available for the CONTRAST:
0 2 4 6 8 10 12

HUE

Following options are available for the HUE:
-6 -4 -2 0 +2 +4 +6

SATURATION

Following options are available for the SATURATION:
0 2 4 6 8 10 12

SPEAKER SETUP



DOWNMIX

Following options are available for the DOWNMIX:
LT / RT Stereo VSS

BASS MODE

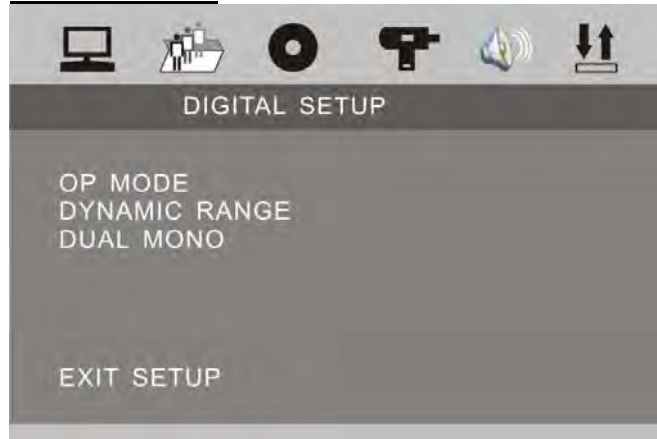
Following options are available for the BASS MODE:

ALL LG SPK

ALL SM SPK

MIXED SPK

DIGITAL SETUP



OP MODE

Following options are available for the OP MODE:

LINE OUT RF REMOD

DYNAMIC RANGE

Following options are available for the DYNAMIC RANGE:

FULL 6 / 8 4 / 8 2 / 8 OFF

DUAL MONO

Following options are available for the DUAL MONO:

STEREO MONO L MONO R MIX MONO

SPECIFICATIONS

GENERAL

Supply Voltage : 14.4V DC (11-16V allowed)

Load Impedance : 4Ω per channel

Max Power Output : 50W x 4

Bass 100Hz : ≥ 10dB

Treble 10KHz : ≥ 10dB

Dimensions (approx.) : 180 x 188 x 59 mm (d/w/h)

Mounting (approx.) : 160 x 178 x 50 mm (d/w/h)

FM TUNER

Frequency Range : 87.5 – 108 MHz (Europe/Asia)
 : 87.5 – 107.9 MHz (USA)

IF : 10.7 MHz

Usable Sensitivity : ≤ 15dBuV

Stereo Separation : ≥ 26dB (1 KHz)

Frequency Response : 100-20000Hz

AM TUNER

Frequency Range : 531 - 1602 KHz (Asia)
 522 - 1620 KHz (Europe)
 530 - 1710 KHz (USA)
 IF : 450 KHz
 Usable Sensitivity : ≤ 40dBuV

TV TUNER (Optional)

Frequency Range NTSC : 55.25 MHz~855.25MHz
 PAL: 48.25 MHz~855.25MHz

DVD PLAYER

Signal-to-noise Ratio : ≥ 85dB (1 KHz)
 Distortion : ≤ 0.5%

MONITOR

Resolution : 480 (w) x 234 (H) (RGB)
 Brightness : 350 cd/m²
 Contrast : 250:1

NOTE:

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

TROUBLE SHOOTING

If any of problem persists after checking the below list, Please consult your nearest service dealer. Never attempt to disassemble and repair unit personally.

Problem	Cause	Action
GENERAL		
Unit will not turn on (no power)	Yellow wire not connected or incorrect voltage Re wire not connected or incorrect voltage	Check connections for proper voltage(11-16vdc)
	Black wire not connected	Check connection to ground
	ACC Fuse blown or Car battery fuse blown	Install new fuse with correct rating
	Illegal operation	Press the RESET button
Unit has	Speaker wires not connected	Check connections at speakers

power (but no/low audio output)	One or more speaker wires touching each other or touching chassis ground	Insulate all bare speaker wires from each other and chassis ground
	Speakers damaged	Review wiring diagram and check
Poor sound quality or distortion	Speaker power rating not compatible with unit	Connect proper speakers
	Speaker is shorted	Check speaker wire contact
Unit resets itself when engine is off	Incorrect connection between ACC and Positive battery wire	Check wiring and correct
Unit blows fuse	Yellow or red wire touching chassis ground	Check for pinched wire
	Speaker wires touching chassis ground	Check for pinched wire
	Incorrect fuse rating	Use fuse with correct rating
Unit has audio (when in reverse)	Parking brake safety circuit not connected	Check connections at parking brake
	Parking brake not applied	Apply parking brake
Excessive skipping	Unit is not mounted correctly	Check mounting sleeve
	Physical defect in media	Check media for scratches
IR remote does not work	Dead battery	Replace battery
	Battery installed incorrectly	Remove battery and install correctly
TUNER		
Weak station searching	Auto antenna is not fully extended	Connect the auto antenna control cable properly
	Auto antenna not properly connected	Connect the auto antenna control cable properly
	LOCAL function is activated	Turn LOCAL function off

Problem	Cause	Action
TFT MONITOR		
No video display (when in reverse)	Reverse circuit not connected	Check connections at reverse lamp
	Vehicle is not in reverse	Select reverse gear
Front panel will not open/close	Front panel obstructed	Remove the obstruct and press OPEN to resume the monitor open/close sequence
Flashing image or interference appears on screen	DVD is not compatible with current TV system settings Image blurred, distorted, or dark	Change setup to accommodate disc
Prolonged image or improper height/width ratio display	Improper video signal connections	Check wiring and correct
	Improper aspect ratio setup	Use correct aspect ratio setting

Touch screen function disorder if the position is excursion	Under different condition, for example: temperature , humidity, tec.	Do touch screen calibrate
DISC		
Cannot insert disc	Disc already inside unit	Eject current disc and insert new one
DVD does not start playback	Disc is warped or scratched	Use disc in good condition
	Disc is dirty or wet	Clean disc with soft cloth
	Incompatible disc is used	Use compatible disc
	Disc rating exceeds Parental Lock rating limit	Change parental Lock settings to lower restriction
	Disc region code is not compatible with unit	Use disc with proper region code
	Disc is inserted upside down	Insert disc with label side up
Image blurred , distorted, or dark	Disc is illegally copied	Use original disc
No repeat or searching while playing VCD	PBC is on	Turn PBC off
Interruption occurred during MP3 playback	Disc is dirty or scratched	Clean disc or replace new disc
Bad Disc appears on display	Focus error	Press eject or RESET

DISC NOTES

- Disc formats supported by this player



Handling and Cleaning

- Dirty, dusty, scratched or warped discs will cause misoperation.
- 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. High temperature places.
4. On the seats or dashboard.

Disc Cleaning

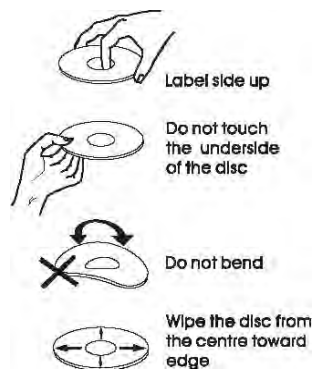
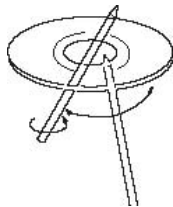
Use a dry soft cloth to wipe the surface. If the disc is quite dirty, use a soft cloth slightly moist with isopropyl (rubbing) alcohol. Never use solvent such as benzene, thinner or conventional record cleaners which may mar the surface of the disc.

NOTE:

A disc may become somewhat scratched (although not enough to make it unusable) depending on your handling it in the condition of the usage environment. These scratches are not an indication of any problem with the player.

Repairing New Discs with Rough Spots

A new disc may have rough edges on its inside and outside edges. If a disc with rough edges is used, the proper setting will not be performed and the player will not play the disc. Therefore, remove the rough edges in advance by using a ballpoint pen or pencil. To remove the rough edges, press the side of the pen or pencil against the inside and outside edges of the disc.



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