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Safety Precautions

Thank you for purchasing this product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, keep this manual in a safe place for future reference.

1. Only connect the unit to a 12-volt power supply with negative grounding.

![Diagram of a 12-volt power supply]

2. Never install this unit where the operation & condition for safety driving is restrained.

![Diagram of a driver]

3. Never use the video display function in the front when driving to prevent the violation of laws & regulations and also to reduce the risk of traffic accident except using for rearview video camera.

![Diagram of a video display]

4. Never expose this unit, amplifier and speakers to moisture or water for preventing electric sparks or fires.

![Diagram of moisture and water]

5. Please don't change the fuse on the power cord without professional guidance, using improper fuse may cause damage to this unit or even cause fire.

![Diagram of a fuse]

Note
To ensure safe driving, please adjust the volume to a safe & comfort level in case of emergent situations
Please power off this unit at once and send it back to the after-sales service center or the dealer /distributor you purchased from if one of the following symptoms is found:

(a). No audio output;
(b). No image output;
(c). Water or other obstacle enters the unit;
(d). Smoking;
(e). Peculiar smell.

Warning
Operate the unit correctly according to the manual instruction to prevent unnecessary problem.

CAUTION
The use of optical instruments with this product will increase eye hazard. As the laser beam used in this CD/DVD player is harmful to eyes, do not attempt to disassemble the cabinet. Refer to qualified personnel only.

Two laser products
Wave length: CD: 780nm DVD: 650nm
Laser power: No hazardous radiation is emitted with safety protection.
To reduce the risk of fire electric shock, and annoying interference, use only the included components.

Caution of disc using
1. DO NOT use irregular shaped disc.

2. Disc Cleaning. Use a dry, soft cloth to wipe the disc from center to edge, only neutral detergent can be used

3. When playing a new disc. New disc may have some rough spots around the inner and outer edges. If such a disc is used, remove these rough spots with a pencil or ball-point pen, etc.
Features

DVD-R/RW compatibility
It is possible to playback DVD-R/RW discs recorded with the video format and Video Recording format.

Video CDs featuring PBC compatibility
It is possible to playback Video CDs featuring PBC (playback control).

WMA and MP3 compatibility
It is possible to playback WMA and MP3 files.

About WMA
The Windows Media™ logo printed on the box indicates that this unit can playback WMA data.
!Windows Media and the Windows logo are trade marks or registered trademarks of Microsoft Corporation in the United States and/or other countries.
!This unit may not operate correctly depending on the application used to encode WMA files.

About MP3
Supply of this product only conveys a license for private, non-commercial use and does not convey a license or imply any right to use this product in any commercial(i.e. revenue generating) realtime broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent license for such use is required.

Note
To provide a clear demonstration and an alternative for easy understanding of the operation of this unit, graphic illustration was used. However, this illustration is not necessary printed as the actual image found on the unit.
Location and function of controls

BLP 890

1. Disc slot
2. SD card slot
3. GPS card slot
4. Eject button
5. SRC button -- Short press to change sources; Long press to return to main source list/homepage
6. GPS button - Press to open navigation source
7. Radio button - Press to open radio source
8. Disc button -- Press to open disc source
9. Display button-- Press to turn off display
10. Prev/Next knob
11. IR eye
12. USB port
13. Aux input
14. Volume knob - Power button -- Short press to mute; Long press to turn off the power
15. Display window/touch panel

Note

Zone A: On any video/no signal mode, touch this zone to exit current interface and return to main source list interface

Zone B: On any audio/video playing mode, touch this zone to select previous section/song/movie, etc.

Zone C: On any audio/video playing mode, touch this zone to select next section/song/movie, etc.
Location and function of controls

BLP 840

1. Disc slot
2. SD card slot
3. GPS card slot
4. Eject button
5. SRC button -- Short press to change sources; Long press to return to main source list/homepage
6. GPS button - Press to open navigation source
7. Radio button - Press to open radio source
8. Disc button -- Press to open disc source
9. Display button-- Press to turn off display
10. Prev/Next knob
11. IR eye
12. USB port
13. Aux input
14. Volume knob - Power button -- Short press to mute; Long press to turn off the power
15. Display window/touch panel

Note

Zone A: On any video/no signal mode, touch this zone to exit current interface and return to main source list interface

Zone B: On any audio/video playing mode, touch this zone to select previous section/song/movie, etc.

Zone C: On any audio/video playing mode, touch this zone to select next section/song/movie, etc
Location and function of controls

1. Disc slot
2. SD card slot
3. Eject button
4. GPS button - Press to open navigation source
5. Disc button -- Press to open disc source
6. Display button-- Press to turn off display
7. Prev/Next knob
8. IR eye
9. USB port
10. AUX input
11. Volume knob -
12. GPS card slot
13. SRC button -- Short press to change sources;  Long press to return to main source list/homepage
14. Radio button -- Press to open radio source
15. Power button -- Short press to mute;  Long press to turn off the power
16. Display window/touch panel

Note
On any video/no signal mode, touch this zone to exit current interface and return to main source list interface.
On any audio/video playing mode, touch this zone to select previous section/song/movie, etc.
On any audio/video playing mode, touch this zone to select next section/song/movie, etc.
Card remote control

Card remote commander
The remote control can operate within a distance of 3~5 meters.

Remote sensor

30˚

30˚

Caution:
1. Service life of the battery is around 6 months under normal conditions. If the remote control can not be operated normally, the battery should be replaced with new one in time.
2. If the remote control is not to be used for a long time, the battery should be taken out to prevent liquid leakage from causing damage of the remote control.
3. Prevent the remote control from falling to ground which may damage it.
4. Do not dismantle or crush the battery, or put the battery into fire or place with other metal materials.
5. Put the battery of remote control in a safe place to prevent the children from swallowing it.
   If the children swallowed the battery by accident, please send them to see doctor promptly.

Preparing the card remote commander
Before using the card remote commander for the first time, remove the insulation film.

Remote control operation:

Power ON/OFF
EJECT
Eject/Suck Disc
SRC
Eject/Suck Disc
Switch modes
MENU
Switch to main interface
SETUP
Switch to settings interface
PIC
Adjust LCD screen
MUTE
Mute
PLAY
Play/Pause
STOP
Stop
NEXT
Next/Search
PREVIOUS
Previous/Search
VOLUME UP
Volume up
VOLUME DOWN
Volume down
FAST FORWARD
Fast forward/Search
FAST BACKWARD
Fast backward/Search
TITLE
In disc mode, PBC ON/OFF

AUDI0
In disc mode, switch audio tracks
A-B
In disc mode, repeat between selected point A and B
ZOOM
Amplify images
DISP
In disc mode, show disc information
SEARCH
In disc mode, show digital keyboard for selection of sections
SUB-T
In disc mode, show subtitle
REPEAT
Repeat
ANGLE
In disc mode, switching angle
0--9
In radio mode, select current band, preset channels;
In Bluetooth mode, input phone numbers

Selecting/Confirm keys

PIC 3
Getting Started

Resetting the unit
Before operating the unit for the first time, or after replacing the car battery or changing the connections, you must reset the unit: Press the reset button (with a pointed object, such as a ball-point pen.)

Note
Pressing the reset button will erase the clock setting and some stored contents.

Main Sources Screen display: (When no source is selected)
Main Source List 1

Main Source List 2

PIC 4

PIC 5

-- Change dimmer levels (brightness of the LCD screen)

-- Enter setting interface

-- Enter radio mode;

-- Enter disc mode;

-- Enter Bluetooth mode;

-- Enter USB mode;

-- Enter AUX mode;

-- Enter front camera mode

-- Switch between main source list 1 and main source list 2

-- SOURCE LIST on the lower left corner shows the current source name

-- Time display on the lower right corner shows the current local time
Tuner Operation

**Touch “RADIO”**
Touch “SOURCE LIST”, then “RADIO”. The radio reception display appears:

--- Go back main source list
--- Enter setting interface
--- When RDS on, touch to open PTY list (see PIC 7)
--- When RDS on, touch to open AF/TA list (see PIC 8)
--- Close current interface
--- Open band list (see PIC 9)
--- Open preset list (see PIC 10)
--- Tune automatically
--- Half auto-tune to lower/higher frequencies when press and hold of these keys
  Touch these keys by one short touch to skip frequencies by step continuously
--- Adjust sound volume level

**Touch “BAND”**
The band list appears:

--- Go back main source list
--- Enter setting interface
--- Touch the desired band (“FM1,” “FM2,” “FM3,” “AM1” or “Am2”);
--- Touch “AUTO SEARCH” to tune, it will store received stations to the desired band automatically.
--- Touch “BAND” to close the band list.
Tuner Operation (Advanced)

Storing automatically
1. To change the band, touch “Band”, then select the desired band
2. Touch “Preset List,” then “Search”, the unit stores stations in order of frequency in the preset list (button 1 to button 5).

Storing manually
1. While receiving the station that you want to store, touch “Preset List.”
2. Then long touch the button in the list (button 1 to button 5”), the station is stored.

Note
If you try to store another station on the same number, the previously station will be replaced.

Receiving stored stations
1. Select the band, then touch “Preset List.”
2. Touch the desired button (button 1 to button 5).

Setting AF and TA
1. During reception/playback, touch “AF/TA” the TA/AF interface will appear.
2. Touch to activate/deactivate

Selecting PTY
1. During FM reception, touch “PTY”, the PTY list appears if the station is transmitting PTY data.
2. Touch the desired program type, the unit searches for a station broadcasting the selected program type. To close the PTY list, touch “PTY.”

RDS
Overview:
FM stations with Radio Data System (RDS) service send inaudible digital information along with the regular radio program signal.

AF (Alternative Frequencies)
Selects and retunes the station with the strongest signal in a network. By using this function, you can continuously listen to the same program during a long-distance drive without having to retune the same station manually.

TA (Traffic Announcement)/TP (Traffic Program)
Provides current traffic information/programs. Any information/program received, will interrupt the currently selected source.

PTY (Program Types)
Displays the currently received program type. Also searches your selected program type.

CT (Clock Time)
The CT data from the RDS transmission sets
Playing discs

Insert a disc
Insert a disc into the slot, and the unit will change to disc mode automatically.

Note
Please confirm whether there is a disc in the unit before you insert another one. The unit will exit current playing source and enter DVD mode when one disc is inserted. Some recorded discs, such as CD-R, CD-RW, DVD-R, DVD+R, DVD-RW, DVD+RW cannot be played back because of different recording status. Otherwise, the discs without being closed could not be played back.

If the DVD menu appears
Touch the item in the DVD menu directly. You can also use the menu control panel which can be shown by touching the display in a place other than menu item area.

If the disc contains JPEG files
The slide show starts automatically.

Eject the disc
Press \( \uparrow \) to eject the disc.

Note
• After ejecting the disc, the unit reverts to other mode automatically.
• You can eject a disc when the unit powered off. The unit remains off after the disc ejected.
• If the disc is not removed from the unit within 10 seconds, the disc will be reloaded to prevent accidental damage.

File type supported
Audio file: MP3 (*.mp3), WMA (*.wma)
Video file: MP4 (*.avi, DIVX3.11/4.0/5.0/6.0/7.0)
MPEG 2 (*.vob)
MPEG 1 (*.dat)
Picture file: JPEG (*.jpg)
MP3 file: ISO 9660 or ISO 9660 + Joliet format -- Max. 30 characters; Max. nested directory is 8 levels; the max. album number is 99.
The max. length of each track is 99 minutes 59 seconds.
Supported sampling frequency for MP3 disc: 8KHz to 48KHz (44.1KHz preferably).
Supported bit-rates of MP3 disc are: 32 - 320kbps (128 kbps preferably).

Disc and files NOT supported
*.AAC, *.DLF, *.M3U, *.PLS, MP3 PRO files and files with DRM.
Open session discs.
Playing discs

Insert a disc

Insert a disc into the slot, and the unit will change to disc mode automatically.

Eject the disc

Press to eject the disc.

If the DVD menu appears

Touch the item in the DVD menu directly. You can also use the menu control panel which can be shown by touching the display in a place other than menu item area.

If the disc contains JPEG files

The slide show starts automatically.

File type supported

Audio file: MP3(*.mp3), WMA(*.wma)

Video file: MP4 (*.avi, DIVX3.11/4.0/5.0/6.0/7.0)

MPEG 2 (*.vob)

MPEG 1 (*.dat)

Picture file: JPEG (*.jpg)

MP3 file: ISO 9660 or ISO 9660 + Joliet format -- Max. 30 characters; Max. nested directory is 8 levels; the max. album number is 99.

The max. length of each track is 99 minutes 59 seconds.

Supported sampling frequency for MP3 disc: 8KHz to 48KHz (44.1KHz preferably).

Supported bit-rates of MP3 disc are: 32 - 320kbps (128 kbps preferably).

Disc and files NOT supported

*.AAC, *.DLF, *.M3U, *.PLS, MP3 PRO files and files with DRM.

Open session discs.

Please confirm whether there is a disc in the unit before you insert another one. The unit will exit current playing source and enter DVD mode when one disc is inserted. Some recorded discs, such as CD-R, CD-RW, DVD-R, DVD+R, DVD-RW, DVD+RW cannot be played back because of different recording status. Otherwise, the discs without being closed could not be played back.

Note

• After ejecting the disc, the unit reverts to other mode automatically.

• You can eject a disc when the unit powered off. The unit remains off after the disc ejected.

• If the disc is not removed from the unit within 10 seconds, the disc will be reloaded to prevent accidental damage.

Playback controls(CD/USB/SD)

Touch the display if the playback controls are not shown.

--- Go back to main source list

--- Enter settings main menu interface

--- Close/ go back to previous interface

-- It shows track name; -- It shows artist name; -- It shows album name.

--- The indicator bar shows playback status

--- Volume indicator and volume-/volume+ buttons

--- Skip backward/forward a chapter/section/scene/image/file

--- Touch and hold momentarily to fast-backward/reverse/fast-forward the video; and then repeatedly to switch the speed (x 2, x 4, x 8...). To cancel, touch play .

--- Pause/resume play after pause

--- Stop playing chapter/track/scene/image/file

--- List up tracks/images/video files. (Picture on the right)

--- Scroll down to next page / up to previous page

-- Touch to list audio files; --Touch to list pictures; --Touch to list video files.

Note

-- Close/open folder; touch files inside the folder and it will start to play
Playback controls

Touch the LCD screen, the playback controls menu interface appears:

- **DVD** -- Return to main source (homepage)
- **→** -- Exit menu interface and return to disc playback mode
- **⚙** -- Enter settings interface where user can make settings
- **INFO** -- Enter information interface where user can check disc information
- **INFO** -- Enter digital keyboard interface for selecting sections by directly input the numbers
- **‖** -- Play or to pause the current selected program
- **‖/‖** -- Stop playing/eject disc
- **←** -- Play last section;
- **→** -- Play next section
- **←** -- Fast backward
- **→** -- Fast forward
- **e** -- Enter next page
- **P-1/2** -- Enlarge images
- **反复** -- Repeat playing current section
- **A-B** -- Repeat playing between point A and point B
- **Audio** -- Select sound track
- **Sub-T** -- Show subtitle (if the disc supports it)
- **Root** -- Show root menu
- **Title** -- Show primary disc menu
- **㈠** -- Adjust view angles
- **P-2/2** -- Go back to previous page

USB/SD Operations

**Playing a SD card**

Remove the cap from the SD card slot, and insert the card to the SD card reader slot, playback starts automatically. If a SD card already is in the slot, to start playback, touch “SOURCE LIST”, then “SD CARD”

**Playing a USB device**

Remove the cap from the USB connector, and connect the USB device to the USB connector, playback starts automatically. If a USB device is connected, to start playback, touch “SOURCE LIST”, then “USB”

About the controls and indications during playback

You can control USB/SD playback in the same way as disc playback. For details, see “Playback controls” on page ___.

To disconnect the USB device /SD card

Stop playback, then disconnect it.

Do not disconnect during playback, as data in the USB device / SD card may be damaged.

Notes on use

- Do not use USB devices so large or heavy that they may fall down due to vibration, or cause a loose connection.
- Do not leave a USB device in a parked car, as malfunction may result.
- This unit cannot recognize USB devices via a USB hub.

Notes on playback

- If a USB/SD device contains multiple file types, only the selected file type (audio/video/image) can be played.
- Displayed indications will differ, depending on the USB device, recorded format and settings.
- The maximum number of displayable data is as follows.
  - folders (albums): 256
  - files (tracks): 2,000
- It may take time for playback to begin, depending on the amount of recorded data.
- During playback or fast-forward/reverse of a VBR (Variable Bit Rate) MP3/WMA/AAC file, elapsed playing time may not display accurately.
- Playback of a lossless compression file is not supported.
- Connect the USB device after starting the engine. Depending on the USB device, malfunction or damage may occur if it is connected before starting the engine.
- A large-sized file may take time to start playing back.
USB/SD Operations

Note
- Connect the USB device after starting the engine. Depending on the USB device, malfunction or damage may occur if it is connected before starting the engine.
- A large-sized file may take time to start playing back.

Playing a SD card
Remove the cap from the SD card slot, and insert the card to the SD card reader slot, playback starts automatically.
If a SD card already is in the slot, to start playback, touch “SOURCE LIST”, then “SD CARD”

Playing a USB device
Remove the cap from the USB connector, and connect the USB device to the USB connector, playback starts automatically.
If a USB device is connected, to start playback, touch “SOURCE LIST”, then “USB”

About the controls and indications during playback
You can control USB/SD playback in the same way as disc playback. For details, see “Playback controls” on page

To disconnect the USB device / SD card
Stop playback, then disconnect it.
Do not disconnect during playback, as data in the USB device / SD card may be damaged

Notes on use
- Do not use USB devices so large or heavy that they may fall down due to vibration, or cause a loose connection.
- Do not leave a USB device in a parked car, as malfunction may result.
- This unit cannot recognize USB devices via a USB hub.

Notes on playback
- If a USB/SD device contains multiple file types, only the selected file type (audio/video/image) can be played.
- Displayed indications will differ, depending on the USB device, recorded format and settings.
- The maximum number of displayable data is as follows.
  – folders (albums): 256
  – files (tracks): 2,000
- It may take time for playback to begin, depending on the amount of recorded data.
- During playback or fast-forward/reverse of a VBR (Variable Bit Rate) MP3/WMA/AAC file, elapsed playing time may not display accurately.
- Playback of a lossless compression file is not supported.
iPod Operations

Playing an iPod
Reduce the volume on this unit. Remove the cap from the Ipod connector, and connect the iPod to the connector. Playback starts automatically. If an iPod is already connected, to start playback, touch “SOURCE LIST,” then “iPod”

Controls and indications during playback:

- Return to main source list
- Enter settings interface
- Close/Go back to prev interface
  - It shows track name;   - It shows artist name;   - It shows album name.
- The indicator bar shows playback status
- Open/close playlist (see PIC 16)
- Switch to iPod video mode for controlling from iPod device
- Open iPod setting menu interface
- Skip to last/next songs/pics
- Pause/resume playing after pause
- Turn to previous or next pages
- Go back to iPod playback

Note
• To output video to this unit, you need to activate the video output of iPod.
• The volume can be adjusted only by this unit.

Repeat and shuffle play
During playback, touch “Menu,” then the “Repeat” or “Shuffle” box repeatedly until the desired option appears. Repeat or shuffle play starts. To close the play menu, touch “Back.”

Bluetooth Operation

Basic procedure of the Bluetooth function
1. Pairing
When connecting Bluetooth devices for the first time, mutual registration is required. This is called “pairing”. This registration (pairing) is required only for the first time, as this unit and the other devices will recognize each other automatically from the next time.

Note
If you delete the device registration from this unit, you need to perform pairing again.

2. Connection
After pairing is made, connect this unit and the Bluetooth device. Depending on the device, connection is automatically made along with the pairing.

3. Handsfree calling/Audio streaming
You can make/receive a handsfree call, or listen to audio through this unit.
iPod Operations

Operating an iPod directly
You can directly operate an iPod connected to this unit. During playback, touch “Video”, the play mode changes to resuming mode. To close the play menu, touch “Music”

Note
• To output video to this unit, you need to activate the video output of iPod.
• The volume can be adjusted only by this unit.

Repeat and shuffle play
During playback, touch “Menu,” then the “Repeat” or “Shuffle” box repeatedly until the desired option appears. Repeat or shuffle play starts. To close the play menu, touch “Back.”

Bluetooth Operation

Basic procedure of the Bluetooth function

1. Pairing
When connecting Bluetooth devices for the first time, mutual registration is required. This is called “pairing”. This registration (pairing) is required only for the first time, as this unit and the other devices will recognize each other automatically from the next time.

Note
If you delete the device registration from this unit, you need to perform pairing again.

2. Connection
After pairing is made, connect this unit and the Bluetooth device. Depending on the device, connection is automatically made along with the pairing.

3. Handsfree
You can make/receive a handsfree call, or listen to audio through this unit.
Bluetooth Operation

Pairing
- Pairing is required only the first time you connect to a Bluetooth device (cellular phone, etc.).
- To pair this unit to a Bluetooth device, you need to enter password to the Bluetooth device. The password is 0000. Passkey may be called “passcode,” “PIN code,” “PIN number,” “password,” etc. depending on the Bluetooth device.
- In Bluetooth main page, touch PAIR, then “WAITING FOR PAIRING” appears on the TFT.
- Turn on Bluetooth function of your mobilephone, keep phone within 3 meters to the unit and star to search for Bluetooth devices.
- After the name of the Bluetooth module “CARKIT” appears on the pairing list of your mobile phone, select it. At this time, a passkey is required. Enter the pairing code (“1234” by default), the Bluetooth pairing will process automatically. Some mobile phones may instruct you to select connect or disconnect, please select connecting.
- After pairing successfully, the Bluetooth icon stops blinking, “PAIR OK” will appear on the LCD screen.

Exit Pair
After pairing successfully, if you want to disconnect, press PAIR button, “EXIT PAIR” will appear on the LCD screen, the Bluetooth icon disappears.

BT Audio
(if the mobile phone has the A2DP & AVRCP functions)
After pair successfully, in Bluetooth main menu, touch A2DP. At this time, the screen will appear “MUSIC PLAYING”, and the audio will be transferred from the mobile phone to the unit. Some mobile phones may hint that to connect with the unit.

Handsfree calling
Once the unit is connected to the cellular phone, you can make/receive handsfree calls by operating this unit.

1. Making calls
Touch “SOURCE LIST” then “BLUETOOTH”, the Bluetooth main display appears (see PIC 17).

- Bluetooth-- Touch to enable/disable Bluetooth function;
- Auto Connect-- Touch to set automatic connection function;
- Auto Answer-- Touch to set automatic answer function.
Bluetooth Operation

2. Touch “Dial Pad”, the number input display appears (see PIC 18).

![PIC 18](image)

Touch the number keys to enter the phone number, then touch 📞 to make a call.
To delete an entered number, touch ⏪.
The call is made and the calling display appears until the other party answers.
During talking through the car Bluetooth, touch 🔄 to switch calling between your mobile phone and the car radio.
To stop the calling/talking, touch 📞.

3. Touch “Contacts”, the contact interface appears (see PIC 19)

![PIC 19](image)

Note

1) When your mobile phone is paired successfully to the car unit, the phonebook will be synced with the car unit Bluetooth device.
2) The transmission of contact lists needs several minutes, please don’t touch ⏪ promptly after pairing.
3) The amount of synced contact names are the first 40 from the phone.
4) Some phones don’t support phonebook transmission.
5) When your mobile phone is disconnected with the car unit, the contact list will disappear; it will get synced when Bluetooth gets connected again.
Other Modes

AV mode
External peripheral devices with RCA audio and video outputs can be connected with the unit. For more details, please refer to < Electrical Connections Overall Diagram >.

Front Camera / Rear Camera
External camera devices with video output can be connected with the unit. For more details, please refer to < Electrical Connections Overall Diagram >.

NAV mode
External suited navigation devices can be connected with the unit by the MAP card slot. For more details, please refer to < Navigation Operation >.

GPS Antenna Installation Guide
You can mount the GPS antenna in the car or out of the car.
• Fix the GPS antenna to a suitable position on the dashboard behind the windscreen, and ensure no obstacles to receive GPS signals. When the satellites determine your position, the navigation system can supply instruction information. At the time the satellites do not locate your position completely, the navigation system can not supply instruction.
• Place the GPS antenna on the top of the car outside, no obstacles on the receiving direction.

Navigation Operation

Touch screen calibration
1. Touch “Navigation” on main source interface (see PIC 4, 5). The navigation interface appears (see PIC 20):

   ![Console Interface](image1)
   ![Setup Interface](image2)

2. Touch “Setup” on above Console interface, the setup interface appears (see PIC 21)
3. Follow up hints on the screen, press center of the cursors, until the calibration cursor automatically moves to up-left position, press in orders of lower-left position, lower-right position, upper-right position.
4. If the calibration is unsuccessful, it will restart the calibration interface.
5. If the calibration is successful, “OK” will be shown on screen, touch any part of screen to keep the calibration and return from the calibration interface.
Navigation Operation

6. After completing the touch screen calibration, the system will memorize the calibration result which would not lose even power off. It is unnecessary to calibrate every time power on.

7. Every product have already been calibrated before delivery.

Navigation setup
1. Touch “Navigation Setup” in the setup interface. The navigation setup interface appears:

   ![Navigation Setup Interface](image)

   - Touch and then select the correct EXE file from the navigation SD card.
   - Select “Start whether run navigation software automatically” the navigation software will run automatically when navigation is turned on.
   - After selecting the correct navigation software from SD card, touch to close navigation setup.

   

   PIC 22

Run navigation software
1. Touch “Navigaiton” in the main interface.

   Note

   Refer to navigation software operation instruction for exact navigation operation.

GPS monitor
Touch “GPS Monitor” on the Setup interface (see PIC 21). The following interface appears:

   ![GPS Monitor Interface](image)

   1. Touch for checking the received satellite data stream;
   2. Touch for checking numbers of received satellites as well as the signal strength;
   3. Touch for longitude, latitude and time

PIC 23

Usual Setup

   ![Usual Setup Interface](image)

   1. For changing language touch or to select desired language
   2. For switching skin touch or until desired skin is found.
Navigation Operation

Screen Setup
Touch “Touch Screen” on the Setup interface (PIC 21). The Screen setup interface appears:

Touch “Brightness color” on PIC 25, the brightness color interface (see PIC 26) appears:

Touch left or right to adjust brightness or contrast.

Touch down to restore default settings, touch close to close the interface.

Adjust Display
Touch “Adjust position” on the Screen interface (see PIC 25). The adjusting interface appears:

1. Touch up, down, left, and right to adjust display position.
2. Touch ok to save and close interface.

Volume Setup
Touch “Volume” on the Setup interface (see PIC 21). The volume setup interface appears:

1. Touch left or right to adjust system volume level.
   Touch mute to mute the system sound.
2. Touch left or right to select key-stroke volume.
Navigation Operation

Time and date
Touch “Time” on the Setup interface (see PIC 21). The Time Setup interface appears:

Touch the keys to setup Month, Day, Year, Hour and Minute.

Touch \[ \leftarrow \rightarrow \] to select time zone

System Setup
Touch “System” on the Setup interface (see PIC 21). The system interface appears:

Touch “Initial Setup” to restore the system to default factory settings.

Touch “Document Repair” to repair system files
DVB-T

DVB-T Antenna Installation Guide:
You can mount the DVB-T antenna inside of the car or outside of the car:
• Fix the DVB-T antenna to a suitable position on the dashboard behind the windscreen, and make sure no obstacles on the signal receiving direction.
• Place the DVB-T antenna on top of the car outside, make sure no obstacles on the signal receiving direction.

DVB-T operations
Touch “TV” on Main Source List (see PIC 4), you will enter TV mode.

1. Touch central part of the TFT LCD screen, an menu interface appears

   -- To select lower frequency channels
   -- To select higher frequency channels
   -- To decrease sound volume
   -- To increase sound volume
   -- Enter Main Menu (see PIC 32)
   -- Exit menu interface

2. Touch on the above menu interface, Main Menu setup interface appears:

   -- Enter to set “Auto Search” or “Manual Search” TV channels (see PIC 33 - 34).

   -- Enter to set “Language”, “Screen” and “OSD” (see PIC 35)

   -- Enter to set “Country”, “Version” and “Reset Default” (see PIC 36)

   -- Close current interface and return to last interface
DVB-T Antenna Installation Guide:

You can mount the DVB-T antenna inside of the car or outside of the car:

- Fix the DVB-T antenna to a suitable position on the dashboard behind the windscreen, and make sure no obstacles on the signal receiving direction.
- Place the DVB-T antenna on top of the car outside, make sure no obstacles on the signal receiving direction.

2. Touch "TV" on Main Source List (see PIC 31), you will enter TV mode:

- To select lower frequency channels
- To select higher frequency channels
- Enter Main Menu (see PIC 32)
- Exit menu interface

1. Touch central part of the TFT LCD screen, a menu interface appears:

- To decrease sound volume
- To increase sound volume
- Enter to set "Auto Search" or "Manual Search" TV channels (see PIC 33)
- Enter to set "Language", "Screen" and "OSD" (see PIC 34)
- Enter to set "Country", "Version" and "Reset Default" (see PIC 35)
- Exit menu interface
- Confirm the selected frequency
- Slide upward/downward to display frequencies

- Enter to set preferred TV OSD language
- Enter to set Ratio(16:9) and Format (Auto/Letterbox/Pan & Scan)
- Enter to set TV background colors
- Enter to select the country where you are
- Enter to check TV system status
- Enter to reset default
Touch “SETTINGS” on the top menu, the main settings interface appears:

Before shipment, the factory has already adjusted the levels to the best result. Unless the display effect gets worse, it is not suggested to adjust randomly.

Clock and date

Touch “Clock And Date” on main settings interface (see PIC 37), the time setup interface appears:

-- Enter time setup interface (see PIC 38)
-- Enter radio setup interface (see PIC 39)
-- Enter display setup interface (see PIC 40)
-- Enter language setup interface (see PIC 41)
-- Enter sound setup interface (see PIC 42-46)
-- Enter screen calibration interface (see PIC 47)
Settings

Radio
Touch “Radio” on the main settings interface (PIC 37), the radio setup interface appears:

Touch Europe/Russia/America/Asia/Australia to confirm selection of your corresponding radio region.

Display
Touch “Display” on main settings interface (PIC 37), the display setup interface appears:

Touch to adjust BRIGHTNESS/CONTRAST/COLOR/SATURATION levels

Note
Before shipment, the factory has already adjusted the levels to the best result. Unless the display effect get worse, it is not suggested to adjust randomly.
Settings

Language
Touch "Language" on the main settings interface (PIC 37), the language setup interface appears:

Touch English/Russian/deutsch/Italian/French... to select your desired language from the list

Note
The factory can make your desired languages upon your request, please keep factory timely informed if special languages are needed on this unit.

Sound
Touch “Sound” on main settings interface (PIC 37), the main sound setup interface appears:

Touch 5.1: ON/OFF to enable/disable 5.1 audio function (available on higher version)
Touch Center Speaker: ON/OFF to enable/disable center speaker (available on higher version)
Touch Beep: ON/OFF to enable/disable beep sound
Settings

Sound - EQ
Touch “EQ” on the main sound settings interface (PIC 42), the EQ setup interface appears:

Touch CLASSIC/ROCK/JAZZ/POP to select your desired audio style; Touch OFF to close the EQ setup.

Note
PREV/NEXT buttons may be deleted in updated version.

Sound - EQ Custom
Touch “EQ Custom” on main sound settings interface (PIC 42), the EQ Custom setup interface appears:

Touch + - to adjust audio effect by yourself.

Note
This EQ custom function is for higher version
Settings

Touch “Level Speaker” on main settings interface (PIC 37), the level speaker setup interface appears:

Calibration

Touch "Calibration" on the main settings interface (PIC 37), the calibration setup appears.

Touch 1,2,3,4,5 cursor to calibrate the touch screen. Once the calibration is done, it doesn’t need to calibrate every time you run the player, only calibrate it when the touch buttons are not in correct positions.

Note

PIC 45 for standard version; PIC 46 for higher version.
Steering wheel controls

Touch "STEER" on the top in main settings interface (Pic 3), the steer setup interface appears:

After connecting the steering wheel control wires to the car, operate as followings:
Press a button on steering wheel, you will see a voltage value shows on the interface, select the corresponding button from the interface (for example, you press \( \text{on the steering wheel, the voltage value will show here } \text{, then press } \text{ on the interface, then press OK, then press Default to set this button as default setup). It is same setup principle for the other buttons. Max 6 buttons could be setup.}

- \( \) -- Last One/Next One
- \( \) -- Fast backward/forward
- \( \) -- Play/Pause
- \( \) -- Volume +
- \( \) -- Volume -
- \( \) -- Mute
- \( \) -- Up/Down/Left/Right/Confirm
- \( \) -- Play section from A to B
- \( \) -- Stop
- \( \) -- Switch between this unit and phone
- \( \) -- Receive call
- \( \) -- Hang up call
## Troubleshooting

The following checklist can help you solve the problems which you may encounter when using the unit. Before consulting it, check the connections and follow the instructions in the user manual.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The unit will not switch on.</td>
<td>Car ignition is not on.</td>
<td>Turn your car key in the ignition.</td>
</tr>
<tr>
<td></td>
<td>Cable is not properly connected.</td>
<td>Check cable connection.</td>
</tr>
<tr>
<td></td>
<td>Fuse is burnt.</td>
<td>Replace fuse with a new fuse of the same capacity.</td>
</tr>
<tr>
<td>No sound</td>
<td>Volume is set at minimum or the mute function is on.</td>
<td>Check the volume or switch the mute function off.</td>
</tr>
<tr>
<td>The unit or screen does not function normally.</td>
<td>The unit system is unstable.</td>
<td>Press the RESET button.</td>
</tr>
<tr>
<td>The appliance will not play discs.</td>
<td>The disc is inserted incorrectly.</td>
<td>Disc must be inserted with the label side facing up.</td>
</tr>
<tr>
<td></td>
<td>The disc is dirty or damaged.</td>
<td>Clean the disc and check for damage.</td>
</tr>
<tr>
<td>Sound skips due to vibration.</td>
<td>Mounting angle is over 30°.</td>
<td>Adjust mounting angle to less than 30°.</td>
</tr>
<tr>
<td></td>
<td>Mounting is unstable.</td>
<td>Mount the unit securely with the supplied parts.</td>
</tr>
<tr>
<td>Unable to receive stations.</td>
<td>The antenna is not connected properly.</td>
<td>Connect the antenna properly.</td>
</tr>
<tr>
<td>Poor quality reception of radio station.</td>
<td>The antenna is not fully extended or it is broken.</td>
<td>Fully extend the antenna and if broken, replace it with a new one.</td>
</tr>
<tr>
<td>Preset stations are lost.</td>
<td>The battery cable is not properly connected.</td>
<td>Connect the permanent live on the unit to the permanent live on the vehicle.</td>
</tr>
<tr>
<td>Unable to insert USB device or SD/MMC card.</td>
<td>The memory card or USB device has been inserted the wrong way round.</td>
<td>Insert it the other way around.</td>
</tr>
<tr>
<td>The USB device or SD/MMC card cannot be read.</td>
<td>NTFS format is not supported.</td>
<td>Check that the USB disk file system is in FAT or FAT32 format. Due to different formats, some models of USB storage devices or MP3 players may not be read.</td>
</tr>
<tr>
<td></td>
<td>The SD/MMC card is not map card.</td>
<td>Using a map card.</td>
</tr>
<tr>
<td>The remote control is not working or does not work properly</td>
<td>The batteries are low or empty.</td>
<td>Change the batteries.</td>
</tr>
</tbody>
</table>
## Troubleshooting

The following checklist can help you solve the problems which you may encounter when using the unit. Before consulting it, check the connections and follow the instructions in the user manual.

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<td><strong>DVD mode</strong></td>
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<td></td>
</tr>
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<td>The appliance will not play discs.</td>
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<td>Disc must be inserted with the label side facing up.</td>
</tr>
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<td>The disc is dirty or damaged.</td>
<td>Clean the disc and check for damage. Try another disc.</td>
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<td>Sound skips due to vibration.</td>
<td>The mounting angle is over 30˚.</td>
<td>Adjust mounting angle to less than 30˚.</td>
</tr>
<tr>
<td></td>
<td>Mounting is unstable.</td>
<td>Mount the unit securely with the supplied parts.</td>
</tr>
<tr>
<td><strong>TUNER mode</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unable to receive stations.</td>
<td>The antenna is not connected properly.</td>
<td>Connect the antenna properly.</td>
</tr>
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<td></td>
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</tr>
<tr>
<td><strong>USB/SD/MMC mode</strong></td>
<td></td>
<td></td>
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<td>The remote control is not working or does not work properly.</td>
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## Specifications

### General

<table>
<thead>
<tr>
<th>Specification</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>12V DC (10.8V-16V) Best voltage 14.3V, negative ground</td>
</tr>
<tr>
<td>Maximum power output</td>
<td>60Wx4 channels</td>
</tr>
<tr>
<td>Continuous power output</td>
<td>80Wx4 channels (4Ω 10% T.H.D.)</td>
</tr>
<tr>
<td>Suitable speaker impedance</td>
<td>4-8 ohm</td>
</tr>
<tr>
<td>Pre-Amp output voltage</td>
<td>4.0V (CD play mode: 1KHz, 0 dB, 10KΩ load)</td>
</tr>
<tr>
<td>Fuse</td>
<td>15A</td>
</tr>
<tr>
<td>Dimensions (WxHxD)</td>
<td></td>
</tr>
<tr>
<td>- Chassis</td>
<td>178x100x154mm</td>
</tr>
<tr>
<td>- Nose</td>
<td>178x101.5x15mm</td>
</tr>
<tr>
<td>Weight</td>
<td>3.5kg</td>
</tr>
<tr>
<td>Aux-in level</td>
<td>$\geq 300$ mV</td>
</tr>
<tr>
<td>Sub-out</td>
<td>4.0V</td>
</tr>
</tbody>
</table>

### Disc Player

- Disc digital audio system
- Frequency response: 20Hz - 20KHz
- Signal/noise ratio: $>80$ dB
- Total harmonic distortion: Less than 0.20% (1KHz)
- Channel separation: $>60$ dB
- Video signal output: NTSC/PAL
- Video output level: 1±0.2V
- Video signal input: NTSC/PAL

### FM Stereo Radio

- Frequency range (Europe): 87.5 - 107.9 MHz
- Frequency range (USA): 87.5 - 107.9 MHz
- Usable sensitivity: 8dBμ
- Frequency response: 30Hz-15KHz
- Stereo separation: 30dB (1KHz)
- Image response ratio: 50dB
- IF response ratio: 70dB
- Signal/noise ratio: $>55$ dB

### AM(MW) Radio

- Frequency range (Europe): 522-1620KHz
- Frequency range (USA): 530-1710KHz
- Usable sensitivity

### Digital TFT LCD

- Display resolution: 800(W) x 480(H)
- Active area (mm): 137.52(H) x 77.22(V)
- Screen size (inch): 6.2/7.0 (Diagonal)
- Brightness: $\geq 350$ nits

### Components

- Wire connector: 1
- Trim plate: 1
- Manual book: 1
- Remote control: 1
- GPS antenna (optional): 1
- DVB-T antenna (optional): 1
- iPod cable: 1
- AUX cable (optional): 1
- USB cable (optional): 1

### Note

Specifications and designs are subject to change without notice due to improvements in technology.