myron&davis®

by Johnson Safty Inc.

NV17

In-Dash
Double Din
Navigation System

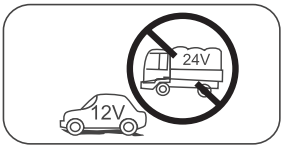
DVD | CD | MP3 | MP4 | SD | USB | BLUETOOTH | SMARTLINK | NAVIGATION

Operating Instructions

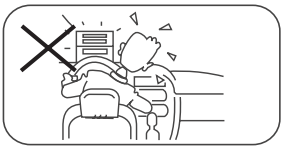
Warnings

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

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

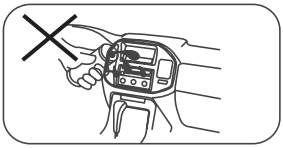


Never install this unit where operating it may impair safe driving conditions.

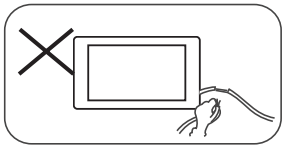


Never use the front video display function when driving, so as to prevent violating traffic regulations or causing an accident.

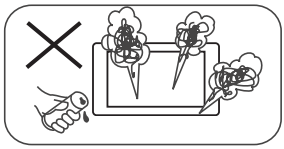
Never expose this unit, amplifier, and speakers to moisture or water to prevent electric sparks or fire.



Do not change the fuse on the power cord without professional guidance. Using an improper fuse may cause damage to this unit or even cause fire.

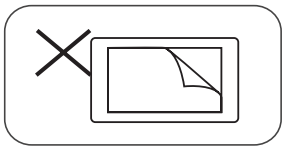


Please contact your nearest dealer if one of the following is experienced:



(a) Water or other objects enter the unit.
(b) There is smoke.
(c) Peculiar smell.

Do not stick any screen membrane to the touch screen.



To ensure safe driving, please adjust the volume to a safe and comfortable level in case of emergency situations.

Precautions

1. Never disassemble or adjust the unit without any professional guidance.
   For details, please consult any professional car shop / dealer for inquiry.
2. If the front panel or TFT monitor is dirty, please use a clean silicone cloth and neutral detergent to wipe off the spot. Using a rough cloth and non-neutral detergent such as alcohol for cleaning may result in scratching or decoloration to the monitor.
3. If any abnormal behavior of the unit is found, please refer to trouble shooting guide of this manual. If no relevant information is found, please press the [RESET] key on the front panel to resume factory default.
4. If you have parked the car in hot or cold weather for a long time, please wait until the temperature in the car becomes normal before operating the unit.
5. Using the car heater in low temperature environment may result in moisture inside the unit, DO NOT use the unit in this situation. Eject the disc and wipe off the moisture on the disc. If the unit still doesn't work after a few hours, please contact the service center.
6. Do not impact the LCD monitor which could cause damage.
7. To prevent damage to the screen, avoid touching it with sharp objects.
8. To provide a clear demonstration and an alternative for easy understanding to the operation of this unit, graphic illustrations are used.
   However, some illustrations are different from the actual images displayed on the screen.
9. Operate the unit correctly according to this manual to prevent unnecessary problem. The guarantee won't be valid if the problem is caused by inappropriate operation.

FCC Statement

1. This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifi cations not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 centimeters between the radiator and your body.

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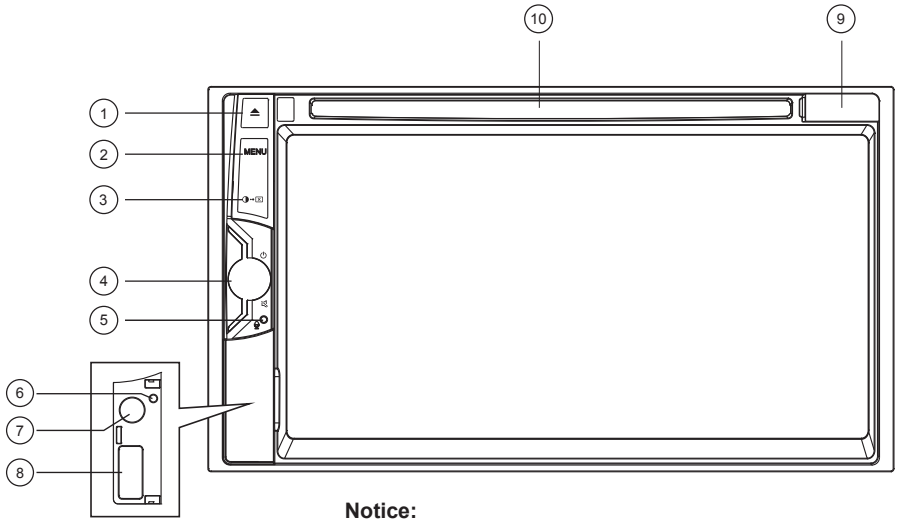
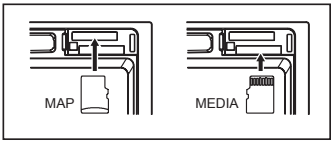
Before using

Front Panel



Notice:
The graphics in this manual are for reference purposes only and may differ somewhat from the actual unit.

1. **[⏏] Button**
   Press to eject a disc.
2. **[MENU] Button**
   Press to display the main menu
3. **[◑→⊠] Button**
   Adjust the brightness of screen.
4. [⏻ / 🔇] **Power/Volume knob**
   Rotate to adjust volume.
   Press briefly to activate the MUTE function. Press again to resume normal sound.
   Press and hold to turn the unit OFF.
5. **Microphone**
6. **Reset Hole**
7. **A/V IN Socket**
8. **USB Socket**
9. **MicroSD card reader for media / map**
10. **Disc slot**



Basic operations

Power on / off

Press the [⏻ / 🔇] knob to turn the unit on. The buttons on the front of the unit light up for a moment and the current mode status appears on the LCD. Press and hold the [⏻ / 🔇] knob more than 2 seconds to power off the unit.

Parking Brake Inhibit

- When the “BRAKE” cable is connected to the brake switch, the video playback will be controlled by driving status, system setup and input video sources.
- Parking brake function is overridden when the video source is set to REVERSE.
- When the car is moving ahead, if video is played, the screen appears WARNING information and blank screen to prevent the driver watching images.

Mute

When on, press the [⏻ / 🔇] knob on the front panel shortly to mute the volume from the unit.
To resume the volume, press the knob shortly again.

Audible beep confirmation

An audible beep tone confirms each function selection. The Beep tone can be disabled through the Setup menu.

Open SOURCE MENU

Press [**MENU**] button on the front panel or touch the [🏠] icon on the top left of the screen to open the SOURCE MENU.
Press [**MENU**] button again to return to the previous source.

Playing source selection

Touch [←] or [→] on the source menu to view the previous or next page of playing sources, and then select the source you desired.

Volume adjustment

Volume Increase/Decrease

To increase or decrease the volume level, turn the rotary encoder on the front panel. The volume range is from "0" to "50". After adjust, the TFT screen displays the volume level for 3 seconds.

EQ Menu

The Audio Control feature allows you to easily adjust your audio system to meet the acoustical characteristics of your vehicle, which vary depending on the type of vehicle and its measurements. Proper setting of the Fader and Balance boosts the effects of the cabin equalizer.
To enter EQ setting menu, touch [**Custom**] on the bottom of source menu.

System reset

To correct a system halt or other illegal operation, use the tip of a pen to press the [**RESET**] key located on the panel. After a system reset, the unit restores all factory default settings.

Set Date /Time

1. Touch [⚙] icon on the playing source menu.
2. Touch [Clock].
   The date/time setup menu is displayed.

Set Date

1. Touch [Date].
2. Touch the date information on the screen . A submenu is displayed.
3. Touch [▲] or [▼] to set year, month and day.

Set Clock Mode

1. Touch [Clock mode].
2. Touch [12Hr] or [24Hr] to switch clock mode.

Set Time

1. Touch [Time].
2. Touch the time on the screen, a submenu is displayed.
3. Touch [▲] or [▼] to set hour and minute.

Tip:
When date/time is set, touch [Save] to confirm or [Cancel] to exit.

Radio mode

Tuner Menu

1. Touch to view the SOURCE MENU.
2. To view all the stored stations
3. Preset stations list of current band
4. Clock
5. Current station frequency
6. Current radio band
7. Touch to view more buttons
8. Tune backward(short press)
   Seek backward(long press, then short press briefly)
9. Search stations automatically
10. Tune forward(short press)
    Seek forward(long press, then short press briefly)
11. Touch to change band
12. Show RDS options
13. Save the desired radio station
14. Touch to receive Local or Distant stations
15. Enter frequency directly
16. Touch to access Equalizer settings menu

Select Radio as Playing Source

Touch [Radio] on the main source menu.

Select One Radio Band

Touch the [ ] icon on the user interface to select one radio band among FM1, FM2, FM3, AM1 and AM2.

Tune

Auto Tuning

Press and hold [⏮] / [⏭] icon on the user interface more than 1 second to seek a higher / lower station.

To stop searching, repeat the operation above or press other keys having radio functions.

Note:

When a station is received, searching stops and the station is played.

Manual Tuning

Method 1:

During manual tuning, the frequency will be changed in steps.

Touch the [⏮] / [⏭] icon on the user interface to tune in a higher / lower station.

Method 2:

1. Touch the numeric keypad icon [ ]. Numeric keyboard is displayed, touch numbers to input frequency.

2. Touch [⌫] to delete the input numbers step by step.
3. Touch [OK] to enter.

Radio mode

Preset Station

The unit has 5 bands, such as FM1, FM2, FM3, AM1, AM2, and each band can store 6 stations; hence the unit can store 30 stations in total.

Search Stations Automatically

Touch [ ] to search and store 6 strongest stations in current band automatically.

Manual Store

1. Tune to a station manually.
2. Touch [ ].
3. Touch one of the channels P1 to P6 to save the select station.

Tune to a Preset Station

1. Touch [ ].
2. Select the desired band.
3. Touch one of the preset channels (P1 to P6) on the screen.

Local Seeking

Touch the [ ] icon and choose the Radio Local or Distance.

When the [ ] icon turns bright, only stations with a strong signal strength will be detected . Default is “Distance”.

EQ Selection

Press the [ ] icon to enter the EQ setup menu.

(See “EQ” chapter for details.)

RBDS

RBDS (Radio Broadcast Data System) transmits data to the radio which displays information such as station identification, song artist, and song title.

RBDS service availability varies with areas. If RBDS service is not available in your area, the following service is not available.

CT (Clock Time)

Some stations broadcast the time and date within the encoded RBDS signal. The clock time is automatically adjusted when ‘CT’ is set to ‘ON’.

NOTE:

Stations broadcasting close to time zones may not broadcast the correct time in your particular area. In this case, turn CT Off and manually set the time.

PTY Function

PTY is the abbreviation for Program Type which is a code defining the type of program being broadcast (e.g. News or Rock).

Then PTY options will display on the screen. To view more PTY options, touch the scroll bar and arrows on the screen.

When one PTY option is touched (e.g. News), auto search for next available PTY by increasing tuning frequency until the PTY of the next station matches the current. If no matched PTY has been found, the unit will return to the original radio frequency.

Bluetooth mode

Bluetooth technology has the capability to wirelessly synchronize and transfer data among devices. The Bluetooth audio capabilities can be used for mobile phones hands free applications. Bluetooth has many profiles and the unit is compatible with most Bluetooth enabled mobile phones. Before attempting to use the Bluetooth functions on the unit, please make sure your mobile phone supports Bluetooth functions.

Note:
The line-of-sight distance between this unit and your mobile phone must be 8 feet (2.4 meters) or less for sending and receiving voice and data via Bluetooth wireless technology.

Please make sure your mobile phone supports Bluetooth functions (Headset or Handsfree profiles or both). Adhere to the following guidelines for successful operation.

- Before using Bluetooth functions, you must pair your mobile phone to the unit (see "Pairing the Bluetooth System with Your Mobile Phone and Unit"). To ensure the best reception for pairing and re-connection, please make sure the mobile phone battery is fully charged before you begin.
- Try to perform pairing within a few minutes of the mobile phone being turned on.
- Once the unit has been paired with the mobile phone, the unit's Bluetooth model number will be displayed on the mobile phone.
- To achieve the best performance, always keep the mobile phone within 10 feet (3 meters) of the unit.
- Always keep a clear path between the mobile phone and the unit. Never place a metal object or any other obstacle between the mobile phone and the unit.
- Some mobile phones may have a "Power Saving Mode" option. PLEASE DO NOT use the power saving mode with the unit.
- Before accepting or making a call, make sure your mobile phone's "Bluetooth function" is turned on.
- To ensure the best conversation quality/ performance, stay within 3 feet (1 meter) of the units microphone when talking.
- To manually disconnect the mobile phone from the unit, touch the "Chain Link" icon on the Bluetooth user interface (next to the mobile phone name) and the Bluetooth device will be "disconnected", but still paired.

The user can make or receive phone calls with Bluetooth enabled phones through the unit. The user can also listen to music from a Bluetooth enabled device.

Pairing Bluetooth Enabled Devices

To connect your Bluetooth phone to the unit, the user needs to pair the phone to the unit. Pairing needs only to be done once. The user can pair up to five phones. The user can search for Bluetooth head units by mobile phone.

1. Turn ON the Bluetooth function of the car device.
2. Search for Bluetooth devices by mobile phone.
3. Select the Bluetooth device ID in the pairing list.
4. Enter the password displayed on the right of the screen.

Notes:

- *The operational range between this unit and a Bluetooth device is approximately 5 meters.*
- *Before you connect a Bluetooth device to this unit, familiarize yourself with the Bluetooth capabilities of the device.*
- *Compatibility with all Bluetooth device is not guaranteed.*
- *Any obstacle between this unit and a Bluetooth device can reduce the operational range.*
- *Keep this unit away from any other electronic device that may cause interference.*

Bluetooth mode

Disconnecting a Bluetooth Device

To disconnect one device, touch [Disconnect] icon. After "Disconnect", the radio will display a screen listing paired devices. Pressing the Green "Plug" icon will reconnect a previously paired phone to the BT radio. Pressing the "Wastebin" icon next to a device's name will unpair the phone from the radio.

Notes:

- *The device will be disconnected when the device is moved beyond the operational range.*
- *If you want to reconnect the device to the unit, place it within the operational range.*
- *If you do not want to reconnect the device to the unit automatically, touch [Options], then set [Auto connect] to [OFF]. For details, see the "Adjust Bluetooth Settings" section.*

Making a Call

1. Select Bluetooth function in the home menu.
2. On Option page, see the "Phone Synch" item, and press "Synch" to synchronize the phone book with the BT. If you have many contacts, this may take up to 3-4 minutes.
3. Search for phone number from [Phone Book] or [Call Log].

Or touch the number pad directly to input the numbers, then touch the green icon [ ] to dial.

Receiving a Call

1. If there is an incoming call, the screen will display "Incoming...".
2. Touch the screen to select [hang up] or [Answer]. Speak into the Bluetooth microphone.

Tip

- You can select to receive calls automatically by setting [Auto answer] to [On].

Bluetooth mode

Adjust Bluetooth Settings

1. In Bluetooth menu, touch [⚙ Options]. The option menu is displayed.
2. Touch on the selected option to change the setting.

- **[Bluetooth]:**
  To turn the “Bluetooth” function ON or OFF.

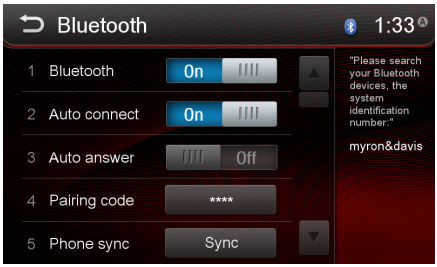
- **[Auto connect]:**
  To turn the “Auto Connect” function ON or OFF .
- **[Auto answer]:**
  To turn the “Auto Answer” function ON or OFF .

- **[Pairing code]:**
  To set the paring code.

- **[Phone synch]:**
  To synchronize phone book, touch [OK] on the sub-menu Phonebook Synch may take several minutes to load on initial setup.

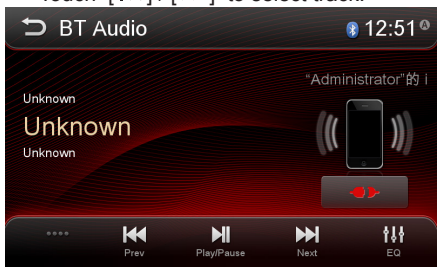
Note:

- *You can also adjust Bluetooth settings in the “Settings” menu.*



Music Mode

1. Pair your mobile phone to the unit.
2. Touch [**BT Audio**] on the main menu.
3. Touch the [▶/⏸] to start playback.
   Touch [⏮] / [⏭] to select track.



A2DP
A2DP is short for Advanced Audio Distribution Profile. The mobile phones supporting this function can transmit stereo audio, whereas the ones not supporting this function can transmit mono audio only.

AVRCP
AVRCP is short for Audio/Video Remote Control Profile. The mobile phones supporting this function can control the playback of a Bluetooth audio player.
In the mode of the music player working, if you want to make a phone call, you can press the number keys on the mobile phone.
At the same time the music player will stop. The TFT screen will display “Calling”, after the call received, the voice will be transferred to the unit. When the call ends, the screen will display music playing menu.
If there is an incoming phone call, the music player will stop, and the screen will display “Incoming”. When the call ends, the screen will display music playing menu.

Playback

Load a Disc

You can play video, audio or images stored on the following discs:
• DVD Video, DVD-R, DVD-RW
• VCD
• Audio CD, CD-R, CD-RW

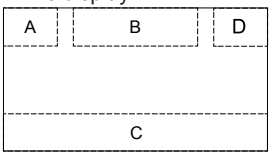
Note:
Ensure that the disc contains playable content.

Eject the disc

Press the [⏏] key on the front panel to eject the disc. When the disc is ejected, the unit switches to the previous source.

Touch screen controls

The touch key areas for DVD playback are outlined below:
A: Return to the main menu
B: Play the video and display playback information
C: Display onscreen control menu
D: Time display



Controlling playback

To access the on-screen controls, touch the screen anywhere except for the upper left corner and touch again to cancel display.
Touch [••••] to view hiden function icons.

Connect an USB device

1. Open the USB door on the bottom left of the front panel.
2. Connect an USB device into the USB connector. Play starts automatically.

Insert a MicroSD card

1. Open the SD card door on the top right of the front panel.
2. Insert a MicroSD card into the lower card slot. Play starts automatically.

Notes:
1. *If there are audio files supported in the USB stick/SD card, the system will enter the audio files menu automatically.*
   If there are no audio files, but there are video files supported in the USB stick/SD card, the system will enter the video files menu automatically.
   If there are no audio or video files, but there are picture files supported in the USB stick/SD card, the system will enter the picture files menu automatically.
   If there no above audio/video/picture files supported in the USB stick/SD card, the screen will display: There are no audio/video/picture files supported.
2. *Not all kinds of USB devices/SD card are compatible with the unit.*

Play/Pause

1. Once a disc, USB or MicroSD card is inserted, play starts automatically.
   For DVD movie, if a menu appears, press [▶] to start play.
2. To pause, touch [❚❚].
   To resume play, touch [▶].

Previous/Next

Touch [⏮] / [⏭] key on the screen to skip to previous / next track / chapter.

Search for a Folder

Search for a Folder
When playback, touch [☰] icon to show folder/file list.

For Video Files
1. Touch [🎞] to display all available video folders.
2. Touch a folder, then touch the desired file.
3. Touch the file again to start play.

For Audio Files
1. Touch [♫] to display all available audio folders.

2. Select a folder, then touch the desired file.
3. Touch the file again to start play.

For Picture Files

1. Touch [ ] to display all available picture folders.
2. Select a folder, then touch the desired file.
3. Touch the file again to start play.

For Folder Control

1. Touch [ ] to display all available folders.
2. Select a folder, then touch the desired file.
3. Touch the file again to start play.

Repeat

For DVD/VCD movie disc:

1. Touch bottom half of the screen to display menu on the screen, if necessary.
2. Touch [••••] to display the 2nd menu.
3. Touch [ ] repeatedly to select:

DVD

[ ] Repeat chapter: Play the current chapter repeatedly.

[ ] Repeat title: Play all chapters in the title repeatedly.

[ ] Repeat all: Play all in the disc repeatedly.

[ ] Repeat off: Cancel repeat play.

VCD

[ ] Repeat single: Play the current single chapter repeatedly.

[ ] Repeat all: Play all chapters in the disc repeatedly.

[ ] Repeat off: cancel repeat play.

For CD/MP3 files:

1. Touch anywhere except the upper left corner to display menu on the screen, if necessary.
2. Touch [ ] repeatedly:

[ ] Repeat single: Play the current single track repeatedly.

[ ] Repeat all: Play all in the disc or storage repeatedly.

[ ] Repeat off: Cancel repeat play.

Repeat A-B

You can repeat a specific of video file (repeat A-B).

1. Touch the screen to display control menu, if necessary.
2. Touch [••••] to display the 2nd menu, if necessary.
3. Touch [A-B] repeatedly to mark:
   Repeat A-: the start of the section to repeat.
   Repeat A-B: the end of the section to repeat.
   The selected section plays repeatedly.
4. To exit A-B repeat mode, touch A-B repeatedly, [Repeat A-B off] is displayed.

Shuffle (Random) Play

You can play audio tracks/files in random order.

1. Touch the screen to display control menu, if necessary.
2. Touch [••••] to display the 2nd menu, if necessary.
3. Touch [ ] on the screen repeatedly to turn random play on or off.

Select Audio Mode

When you play VCDs, you can select an audio mode (R/L/Stereo).

1. During play, touch bottom half of the screen to display menu on the screen, if necessary.
2. Touch [••••] to display the 2nd menu.
   Touch [ ] repeatedly until the audio mode is selected.

Select Subtitle Language

For DVD or Divx discs that contain two or more subtitle languages.

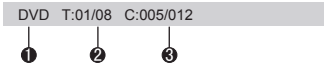
1. During play, touch the screen to display menu on the screen, if necessary.
2. Touch [••••] to display the 2nd menu.
3. Touch [ ] repeatedly to select a language.
   The selected language is displayed.

Playback

Playback Information

Touch the screen when playing back DVD and VCD discs and the
playback information will be displayed on the top area of the TFT.

For DVD



1. Disc type.
2. DVD Title information. “01/08” indicates that this DVD has 8 titles and the title playing back now is the first title.
3. DVD Chapter information. “005/012” indicates that current title has 12 chapters and the chapter playing back now is the fifth chapter.

For VCD

1. Disc type.
2. VCD Track information. “01/08” indicates that this VCD has 8 tracks and the track playing back now is the first title.

Elapsed Time

1. Elapsed time of the current track.
2. Total time of the current track.

Direct Track Entry

To select a track directly, touch the [⠿] icon on screen control to displaythe direct entry menu. Enter the desired track using the on-screen number pad. Press [OK] to the selected track.

Rotate Pictures

1. When you view pictures, touch the screen to display menu on the screen, if necessary.
2. Touch [••••] to display the 2nd menu.
3. Touch [◭↻] repeatedly to rotate the picture.

Zoom

You can zoom in pictures for a close view.

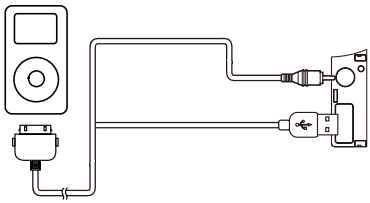
1. When you view pictures, touch the screen to display menu on the screen, if necessary.
2. Touch [••••] to display the 2nd menu.
3. Touch [⊕] repeatedly to zoom in the picture.

iPod/iPhone Operations

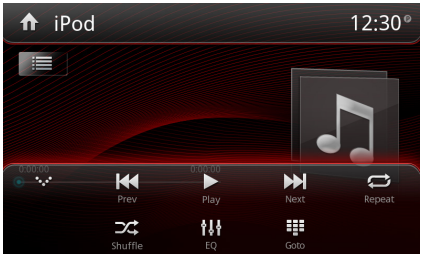
This unit supports only the following iPod/ iPhone models:
· iPhone 5s
· iPhone 5c
· iPhone 5
· iPhone 4s
· iPhone 4
· iPod touch (5th generation)
· iPod touch (4th generation)
· iPod classic
· iPod nano (7th generation)
· iPod nano (6th generation)
· iPod nano (5th generation)
"Made for iPod," and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.
Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.
iPhone and iPod are trademarks of Apple Inc., registered in the U.S. and other countries.

Accessing iPod mode

Connect an iPod or iPhone to the USB connector via an iPod cable.



Touch [iPod] on the main menu to enter iPod menu.



Pausing play

1. Touch the [⏸] icon on the bottom of the screen to pause play.
   [⏸] appears on the screen.
2. Touch [⏸] icon again to resume play.

Selecting a track

Track-up
Touch the [⏭] icon to move to the beginning of the next track.
Track-down
1. Touch the [⏮] icon to move back to the beginning of the current track.
2. Touch the [⏮] icon twice to move back to the beginning of the previous track.

Fast forward/Fast backward

Fast forward
Touch and hold the [⏭] icon .
Fast backward
Touch and hold the [⏮] icon .

Repeat play

This function allows you to play the track repeatedly.
Touch the [🔁] icon to select Repeat one or Repeat all.
If the icon isn't on current screen, touch [••••] button to find it.

Random play

This function allows you to play all tracks recorded in a random order.
Touch the [🔀] icon to perform random play.
If the icon isn't on current screen, touch [••••] button to find it.

Search function

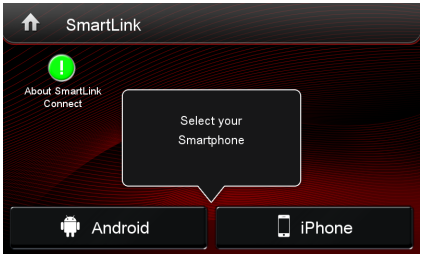
1. Touch the [⠿] icon to enter search menu.
2 Input number, then touch [OK] to begin searching.
   Touch [⌫] icon to delete inputted number.

File List

Touch [☰] icon to show folder/file list.

SmartLink

Open the Source Menu and then touch [**SmartLink**] to enter SmartLink menu.



About SmartLink

By this function, you can synchronize the screen from your smart phone to the car device.
And you can also control your phone by the car device, such as receiving calls, dialing calls, listening to the music and watching movies or pictures from your phone, as well using navigation from the smart phone to the screen of the car device.
The function depends on the configuration of your smart phone.
To active the SmartLink function, you need to connect your smart phone to the car device's SmartLink connector via appropriative cable(sold separately).

Connect with Android Phone

1. **How to get SmartLink APP**
   Download and install SmartLink Connect App from Google Play onto your smart phone.
2. **Cable connection**
   Connect your Smartphone with this system via SmartLink cable(sold separately).
   (Some Samsung phones adaptor cable interface is different to others)
3. **BT Connection**
   Scan for Bluetooth devices and select this system for connection.
4. **Touch panel calibration**
   Launch the SmartLink Connect App on your smart phone. Select "Touch Screen Calibration" in the setting menu of the App in the car device touch screen.
   Once the touch screen is calibrated, press "System settings" to return to the main SmartLink Connect page. Press "Mobile Home Page" to access your smart phone from the touch screen of the car device.
   This calibration is performed once per phone when initially set-up.

Connect with iPhone

Connect your iPhone with this system via Apple Lightning Digital AV Adapter.
After connect successfully, the screen of your iPhone will synchronize to the car device.
Note: Your iPhone can't be controlled by car device.

Limitations

1. SmartLink can't work if car-unit or phone is Off or in inappropriate operation.
2. SmartLink can't work if operated in a wrong way or without specified adaptor or wiring.
3. Wireless communication could be shortly influenced for some phones which can cause impact on SmartLink.
4. Inappropriate phones or systems can cause impact on SmartLink.
5. If no specified versions of app in phone or can't match with the versions of app in car-unit can cause impact on SmartLink.
6. SmartLink can limited to third-party software. (IOS or Android systems upgrade, treaty of phone port changed, navigation systems upgrade or the treaty changed.)
7. SmartLink can't work if PIN code is needed when starting Wi-Fi.
8. Wire or wireless communication is upset by weather, busy lines, capacitance, device, and so on, which may cause influence on SmartLink.
9. Power system and the structure of your car, car-unit, phone, or damaged wiring can cause impact on SmartLink.
10. SmartLink can't work without available signal or normal system.
11. The dpi of phone may cause little deviation when you control phone with car-unit.

NOTE:
No liability shall be assumed for cases described above.

SiriusXM Satellite Radio Operations

SiriusXM® RADIO OPERATION

Only SiriusXM® brings you more of what you love to listen to, all in one place.
Get over 140 channels, including commercial-free music plus the best sports, news, talk, comedy and entertainment. Welcome to the world of satellite radio. A SiriusXM Vehicle Tuner and Subscription are required. For more information, visit www.siriusxm.com.

Activating SiriusXM® Radio

After installing your SiriusXM Connect Vehicle Tuner and antenna, power on your car device and select [**SXM**] mode. You should be able to hear the SiriusXM preview channel on Channel 1.
After you can hear the Preview channel, tune to Channel 0 to find the Radio ID of your tuner.

Note: The SiriusXM Radio ID does not include the letters I, O, S or F.

In the USA, you can activate online or by calling SiriusXM Listener care:

- Visit www.siriusxm.com/activatenow
- Call SiriusXM Listener Care at 1-866-635-2349

For Canadian Subscriptions, please contact:

- Visit www.siriusxm.ca/activatexm
- Call XM customer Care at 1-877-438-9677

Activation typically takes 10-15 minutes, but may take up to one hour. It is recommended to leave your vehicle on until the “Subscription Updated” message appears.

SiriusXM® User Interface

The on-screen indicators and touch key areas for SiriusXM® functions are outlined below.

HOME Icon [ ] - Touch to return to the unit’s Main Menu Screen.
Band indicator (SXM1 icon) - Displays SiriusXM® radio band currently selected. Three bands are available: SXM1, SXM2, and SXM3.
Time Display - This indicator displays the time as entered by the user in the Settings Menu.
List Icon [ ] - Touch to select a channel search criteria. Presets lists preset channels stored by the user. Channels lists all SXM channels. Category lists SXM channels by categories.
More Icon [••••] - Touch to go to SiriusXM® Menu Page 2.
Previous [ ] **Icon** - Touch to tune to the previous channel.
Channel/Category Icon - Touch to toggle the icon displayed between Category and Channel. When Channel is displayed, touching or tunes channels up or down. When Category is displayed, touching or tunes channels within a category up or down.
Next [ ] **Icon** - Touch to tune to the next channel.
Scan Icon [ ] - Touch to scan all channels starting at channel 1. The tuner will pause for approximately five seconds at that channel. Touch scan again to listen to that channel. If scan is not touched, the tuner will automatically seek the next channel.
Band Icon [ ] - Touch to select a band of preset channels. Three bands are available: SXM1, SXM2, and SXM3. Each band can store up to ten preset channels. (Preset channels are accessed from the List icon.)
More Icon [ ] - Touch to go to SiriusXM® Menu Page 1.
Save Icon [ ] - Touch to display screen used to enter current channel into preset memory.

SiriusXM Satellite Radio Operations

Lock Icon - Touch to display the SXM Lock Screen.
CHG PWD Icon - Touch to go to the change password screen.
Direct Entry Icon - Touch to display the Direct Entry Menu.
EQ Icon - Touch to access the Equalizer level settings menu.

Switching to SiriusXM® Radio

Touch the top left corner of the screen or press the [MENU] button on the front panel to view the Main Menu screen. From the Main menu screen, touch the [SXM] icon.

Selecting the SiriusXM® Band

Touch the Band icon [ ] on the SXM Menu screen to change between the following bands: SXM1, SXM2, and SXM3.

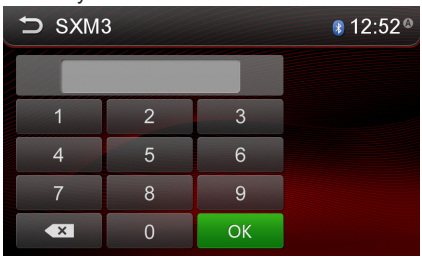
Seek Tuning

- To fast seek the next higher channel, touch and hold the icon [⏭].
- To fast seek the next lower channel, touch and hold the icon [⏮].

Direct Tuning

To enter a SiriusXM® radio channel directly:

1. On the SiriusXM® menu page 2, touch the Direct Entry icon to display the Direct Entry Menu.



2. Enter the desired SiriusXM® radio channel using the on-screen number pad then touch the Ok icon. If you wish to delete an entry number touch the X icon.
3. To exit the screen without changing the channel, touch the Back icon.

Using Preset Channels

A preset is a channel name that is stored for instant access to that channel. Ten numbered preset buttons store and recall channels for each band.

Storing a Channel

1. Select a band (if needed), then select a channel.
2. On the SiriusXM® menu page 2, touch the Save icon [★] to access the Preset Channel Screen.
3. Touch the preset number (P1 through P10) in which you would like to store the current channel (or touch the Back icon to cancel and close the menu).
   The channel will be stored and displayed in that preset. Touch the or icon to scroll up or down the list.
4. Touch the Back icon to return to the SXM Menu screen.

Recalling a Channel

1. Touch the List icon [≡].
2. Touch the Preset icon to access the Recall Preset Channel Screen.
3. Touch a channel on the preset channel list to select the corresponding stored channel. Touch the or icon to scroll up or down the list.

Searching for a Channel

Search by Channel

1. On the SirusXM® menu page 1, touch the Category/Channel icon (if needed) to select Channel.
2. Touch List to display the Channel Search Screen:
3. Touch a channel to tune to that channel. Touch the or icon to scroll up or down the list.

Search by Category

Categories group music by type such as jazz, rock, classical, etc. To search by category:

1. On the SirusXM® menu page 1, touch the Category/Channel icon (if needed) to select Category.
2. Touch List to display the Category Search Screen:

3. Touch a category item. A channel list screen appears.
4. Touch a channel to tune to that channel. Touch the or icon to scroll up or down the list.

Locking SXM Mature Channels

SiriusXM® attaches a label to channels with mature content. The radio recognizes these channels as “Mature”. The Mature Channel Lock option allows you to lock out channels with “Mature” labels. These channels will still appear in the channel listing (with a lock icon), but will not be tunable unless the parental lockout password is correctly entered.

Lock Mature Channels

To lock mature channels:

1. On the SirusXM® menu page 2, touch the Lock icon.
2. Enter your 4-digit password and then press the OK icon.
3. Touch the Lock Mature icon. The mature channels are now locked.

Temporarily Unlock a Mature Channel

When the global “Mature Lock” is enabled, a mature channel can be temporarily unlocked. All mature channels are temporarily unlocked (but still hidden when channel browsing) until the SXM source is changed, Accy (Key) is cycled or the “Power Button” on front panel of radio turns the Radio off.

This mode is useful for listening to mature/adult content on a temporary basis, allowing you to listen on a locked channel without having to disable the global “Mature Lock.”

To temporarily unlock a mature channel:

1. Tune to a mature channel. If the channel is locked, Ch Locked, Code? will appear on the SiriusXM® User Interface tuner screen.
2. Enter the 4-digit password and then press the OK icon to unlock the channel to tune it.

Unlock All Mature Channels

To unlock all mature channels:

On the SirusXM® menu page 2, touch the Lock icon.

1. Enter your 4-digit password and then press the Ok icon.
2. Touch the Unlock All icon. All channels are now unlocked.

Locking Individual SXM Channels

An user can lock individual channels. When locked, a channel has the lock icon next to it on the channel list.

Locking a Channel

To lock an individual channel:

1. On the SirusXM® menu page 2, touch the Lock icon. The following screen appears:
2. Enter your 4-digit password and then press the OK icon. The following screen appears:
3. Touch an unlocked icon. The icon is replaced by a lock icon. The channel is now locked.

Unlocking a Channel

To unlock an individual channel:

1. On the SirusXM® menu page 2, touch the Lock icon. The Enter Password Screen appears appears.
2. Enter your 4-digit password.
3. Touch a lock icon to unlock a channel. The icon is replaced by an unlocked icon. The channel is now locked.

Change Lock Password

The Change Lock Password option allows you to change the password from the default or current custom password to another password.

NOTE: The default password is 0, 0, 0, 0.

To change a password:

1. Touch the CHGPWD icon.
2. Enter your 4-digit password and press the OK icon.
3. Enter the new 4-digit password and press the OK icon. The new password isset.

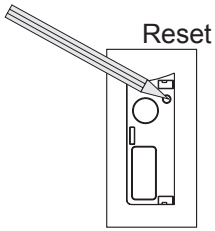
Other modes

Listen to other devices

You can connect an external audio/video device to the unit.

1. Connect the external device with the supplied AV cable.
2. Touch the upper left corner to display the main menu.
3. Touch [AV-IN 1] or [AV-IN 2] to access external device.

Reset



When the unit hangs up, you can reset it.
Press [RESET] with a ball-point pen or similar tool.

Tip
When the unit has been reset, all the settings will return to default settings.

Replace a Fuse

If there is no power, the fuse may be damaged and need to be replaced.

1. Take out the unit from dashbpard.
2. Check all electrical connections.
3. Buy a fuse that matches the amperage of the damaged fuse.
4. Replace the fuse while the unit's power is off.

GPS

1. Touch the upper left corner to display home menu.
2. Touch [Navigation], the navigation menu will display.
3. Refer to the map manual to operate the navigation tool.

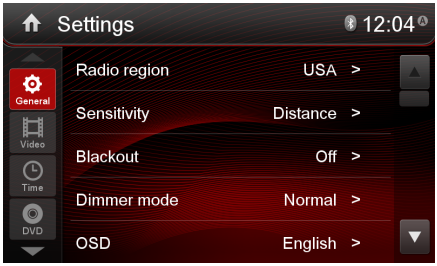
Steering Wheel Control Programming

1. Touch the upper left corner to display home menu.
2. Touch [Settings] on the bottom of the menu.
3. Slide down the General setting list and select [SWC].
4. Touch [On] to show the SWC menu.
5. Adjust each key with a individual function.
6. Touch [Pair] to program.
7. Press each individual steering wheel control button for each corresponding function.
8. Once the final steering wheel control button is programmed, the functions are saved and the programming will end.
9. Touch [Reset] to reset the programming.

Setup

Display system

1. Touch the upper left corner to display the main menu.
2. Touch [⚙].
   The settings menu is displayed.



Adjust general settings

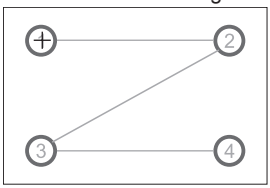
1. Touch [**General**], if necessary.
2. Touch to highlight a setting.
3. Touch to display/select an option.
4. Touch blank area of the screen to exit.

General settings	Options	Description
Radio region	USA/China/Japan/Europe/Eur LW/ OIRT	Select one that matches your location.
Sensitivity	Local	Select Local to receive only stations with extremely strong signal.
	Distance	
Blackout	Off/120s/20s	Set the blackout status.
Dimmer mode	Night/Dark/Normal/Bright	Set the backlight dimmer of the screen.
OSD	Select on-screen display language.	
Beep	On	Turn on the beep sound. Each time you press a button, the unit beeps.
	Off	Turn off the beep sound.
Calibration	Start	Calibrate the touch screen.
Key Color	Select the backlight color of the buttons.	
GPS path setup	Set the path of GPS map.	

Calibration

When the touch operation is not sensitive or valid, you should calibrate the touch screen through calibration setting function.
Adjust the response positions of the touch panel as followings:

1. Press the [**Calibration**] option on the setup menu to enter.
2. Touch [**Start**] to enter.
3. Press and hold the center of [**+**] for 2 seconds, the [**+**] will move automatically.
4. Aim at center of [**+**], follow the path as shown of the figure, after steps from 1 to 5, the system will exit calibrating automatically.



Setup

Adjust video settings

1. Touch [**Video**].
2. Touch the option to setup.

Video settings	Options	Description
Parking	On	Disable video when driving.
	Off	Enable video when driving.

When in Park “On” mode, the screen will display WARNING information if you play the video. The warning screen will prevent the driver from watching videos for safety.

Adjust time settings

1. Touch [**Time**].
2. Touch an option repeatedly to select:
3. Touch blank area of the screen to exit.

Time settings	Options	Description
Date	Year / Mon / Day	Touch [▲] or [▼] to set year, month and day.
Clock mode	12Hr/24Hr	Touch [12Hr] or [24Hr] to switch clock mode.
Time	Hour / Min / AM / PM	Touch [▲] or [▼] to set hour and minutes. Touch [▲] or [▼] to set AM/PM (only for 12Hr).

Adjust DVD rating

1. Touch [**DVD**].
2. Touch an option repeatedly to select.
3. Touch blank area of the screen to exit.

DVD rating	Options	Description
Set password	Set password to restrict the play of discs. The default password is 1234.	
Rating level	Kid safe	Acceptable for children.
	G	Acceptable for general viewers.
	PG	Parental guidance suggested.
	PG-13	Unsuitable for children under age 13.
	PG-R	Recommend parents to restrict viewing for children under 17.
	R	Restricted re-parental guidance is advised for children under the age of 17.
	NC-17	Unsuitable for children under age 17.
	Adult	Acceptable for adults only.

Adjust bluetooth settings

1. Touch [**Bluetooth**].
2. Touch an option repeatedly to select:
3. Touch blank area of the screen to exit.

Sound settings	Options	Description
Bluetooth	On/Off	Touch [▲] or [▼] to set year, month and day.
Auto connect	12Hr/24Hr	Touch [12Hr] or [24Hr] to switch clock mode.
Auto answer	Hour / Min / AM / PM	Touch [▲] or [▼] to set hour and minutes. Touch [▲] or [▼] to set AM/PM (only for 12Hr).
Pairing code	Set the pairing code.	
Microphone	Internal/External	Choose the microphone.

Setup

Adjust sound settings

1. Touch [**Sound**].
2. Touch an option repeatedly to select.
3. Touch blank area of the screen to exit.

Audio settings	Options	Description
Sub woofer	On	Turn on or off the subwoofer.
	Off	
Sub woofer filter	80Hz	Select a crossover frequency to set a cut-off frequency for the subwoofer's LPF (low-pass filter).
	120Hz	
	160Hz	
DRC	On	Turn on or off the Dynamic range control.
	Off	

Adjust volume settings

You can set different volumes for different modes.

1. Touch [Volume].
   The volume setting sub-menu is displayed.
2. Touch to select a source.
3. Select a volume value from 0 to 12.
   When switching to the source, the volume increases automatically.
4. Touch blank area to close the sub-menu and touch top left of the screen to exit setting menu.

Adjust system settings

1. Touch [**System**].
2. Touch an option repeatedly to select.
3. Touch blank area of the screen to exit.

System settings	Description
Load factory	Restore to default settings.
Version Info	The Version Sub-menu is used to identify the model and resident operation system as well as the hardware and software versions.

EQ

Select preset equalizer

1. Enter the EQ setup mode
   Touch the [ ] icon in the user interface and the EQ setup interface will display on the screen.
2. Select EQ mode
   Touch to select a desired acoustical preset option (User / Flat / Classic / Rock / Jazz / Techno / Pop).

Adjust EQ Parameters

To adjust EQ parameters, touch and drag the parameters adjustment bar.
[User]: Set the desired audio effect.
[Reset]: Cancel the equalizer function settings.
[Loud: On/Off]: When listening to music at low volumes, this feature will selectively boost certain bass and treble frequencies.

Adjust FAD BAL

You can adjust front/back/left/right balance of the speaker and the subwoofer volume to get balanced listening effect according to the surroundings and your interest.

1. Enter the EQ setup mode
   Touch the [ ] icon in the EQ interface.
2. Adjust subwoofer volume
   Touch [◀] / [▶] “SUB VOL” to adjust subwoofer volume from -12 to +12.
3. Adjust fader / balance value
   Touch [▲] / [▼] / [◀] / [▶] to adjust fader / balance value from -12 to +12.
   [▲]: Front speaker
   [▼]: Rear speaker
   [◀]: Left speaker
   [▶]: Right speaker

Notes:

1. *The EQ mode will change to ‘User’ automatically when you adjust the frequency value in all modes besides ‘User’.*
2. *The value of Sub is independent of EQ mode and can be adjusted separately.*

Troubleshooting

What appears to be trouble is not always serious. Please check the following points before calling a service center.

Problem	Cause	Corrective action
General		
Unit can not power on	Unit fuse blown.	Install new fuse with correct rating.
	Car battery fuse blown.	Install new fuse with correct rating.
	Illegal operation	Reset the unit.
No/low audio output	Improper audio output connection.	Check wiring and correct.
	Volume set too low.	Increase volume level.
	Speakers damaged.	Replace speakers.
	Heavily biased volume balance.	Adjust the channel balance to center position.
	Speaker wiring is in contact with metal part of car.	Insulate all speaker wiring connections.
Poor sound quality or distortion	Pirated disc is in use.	Use original disc.
	Speaker power rating does not match unit.	Replace speakers.
	Wrong connections.	Check wiring and correct.
	Speaker is shorted.	Check wiring and correct.
Tel-Mute malfunction	MUTE wire is grounded.	Check the 'MUTE' wiring and correct.
Unit resets itself when engine is off	Incorrect connection between ACC and BATT.	Check wiring and correct.
TFT monitor		
Warning information is shown at all times	Parking break wiring is not correct.	Check wiring and correct.
Flashing image or interference appears on screen	The color system of DVD disc does not match the monitor.	Adjust the color system of the DVD disc playing back or the monitor in use.
	Pirated disc is in use.	Use original disc.
	Video cable damaged.	Replace cables.
	Improper video signal connections.	Check wiring and correct.
Disc playback		
Cannot insert disc	A disc is already inside the unit.	Eject current disc and insert new one.
Disc does not play back	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 is inserted upside down.	Insert disc with label side up.
	Disc region code is not compatible with unit.	Use disc with proper region code.
PBC cannot be used during VCD playback	PBC is not available on the disc.	Use disc with PBC available.
Repeat or search function is invalid during VCD playback	PBC is on.	Turn PBC off.
Error messages		
No disc	Disc is dirty.	Clean disc with soft cloth.
	Disc is upside down.	Insert disc with label side up.
	No disc inside.	Insert disc.
Bad disc	Disc is dirty.	Clean disc with soft cloth.
	Disc is upside down.	Insert disc with label side up.
Unknown disc	Disc format is not compatible with this unit.	Use disc with compatible format.
Region Error	DVD region code is not compatible with this unit.	Use disc with compatible region code.

Device connections

Notes of connection

- This unit is designed to be used in a vehicle with a 12-volt battery and negative grounding. Before installing this unit to a recreational vehicle, a bus, or a truck, make sure the battery voltage is appropriate for this unit to be used, otherwise, install a transformer by professional to convert the output voltage to 12V.
- To avoid short circuit in the electrical system, ensure that the negative battery cable is disconnected before installation.
- To prevent short circuit in the wiring and damaging to this unit, secure all wirings with cable clamp or adhesive tape. Route the wirings in a secured, out of heating place without touching any moving parts such as gear shift, handbrake, and seat rails to prevent the wiring insulation being melted / wore off.
- Never pass the yellow power cord through the installation hole into the engine compartment and connect to the car battery. Otherwise, a high possibility of serious short circuit to the electrical system may be occurred.
- Replacing a new fuse with 15A rating when the old one is broken, using no fuse or fuse with improper rating may cause damage to this unit or even fires. If a proper fuse is installed and electrical problems still occur, please contact with any professional car shops for inquiry.
- Do not connect other equipments with the car battery to avoid battery overheating.
- Please make sure all the wiring connections & the cables of the speakers are well-insulated. Otherwise, this unit may be damaged by short circuit.
- If there is no ACC available, Please connect ACC lead to the power supply with a switch.
- If an external power amplifier is connected, please don't connect P.CONT lead to the power lead of the external power amplifier, otherwise, electric spark or other damage may be resulted.
- Never ground the speaker output to prevent the damage to the built-in power amplifier.
- The minimum rating of the speakers connected to this unit is 50W with 4 to 8Ω impedance.

Control cables

Auto Brightness Control

To avoid the display being too bright at night time, if the headlight cable is connected to ILLUMI, turning on the headlight will dim the backlight of the TFT LCD and vice versa.

Telephone Mute

If the MUTE cable is connected to a car phone, other audio outputs mute when one call is received by the car phone.

Reverse Driving

If a rear view camera is connected with the unit, the playing source switches to CAMERA automatically when you start reverse driving.
As the reverse driving is done, the playing source switches to the previous.

Parking Brake

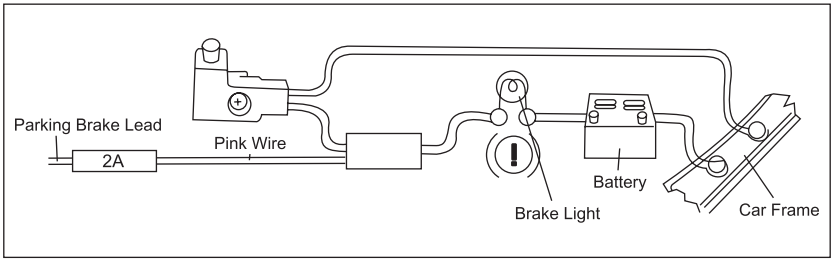
1. If "PRK SW" cable is connected to hand brake switch, video display on the TFT monitor will be controlled by this function.
   Parking cable function ceases when the playing source is CAMERA.
2. The monitor displays the blue screen with warning information to prevent the driver watching video contents during driving, but the passengers at the rear seat can watch video contents normally.

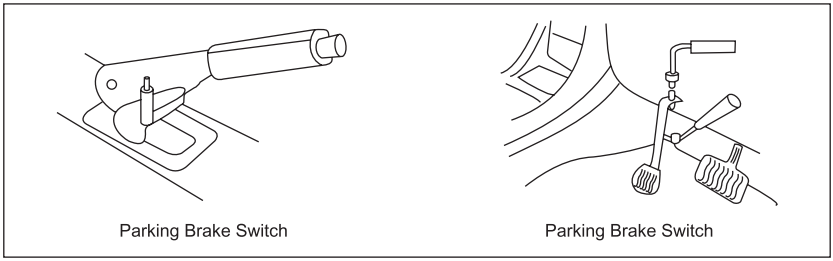
Region code

According to DVD sale region, the whole world is divided into six regions. A DVD disc can be played back only when its region code is compatible with that of the player in use.
Region 1: USA, Canada, East Pacific Ocean Islands;
Region 2: Japan, West Europe, North Europe, Egypt, South Africa, Middle East;
Region 3: Taiwan of China, Hong Kong of China, South Korea, Thailand, Indonesia, South East Asia;
Region 4: Australia, New Zealand, Mid & south America, South Pacific Ocean Islands/Oceania;
Region 5: Russia, Mongolia, India, Middle Asia, East Europe, North Korea, North Africa, North West Asia;
Region 6: Chinese Mainland.

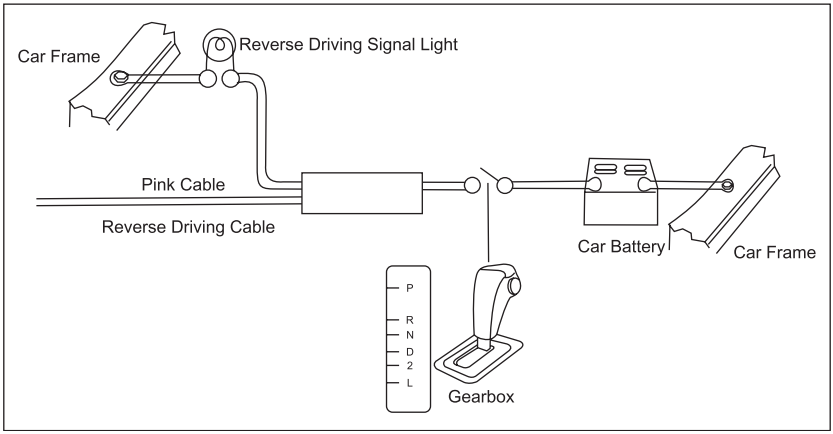
Device connections

Parking brake cable connections





Reverse driving cable connections



Specifications

General

Reference Supply Voltage	12V(DC)
Operating Voltage Range	10.8 - 16.0V(DC)
Max Operating Current	15A
Grounding System	Negative
Dimensions(WXHXD)	178.5X101.5X166.0mm
Weight(main unit)	1.8kg

FM

Signal Noise Ratio	≥55dB
Residual Noise Sensitivity (S/N=30dB)	≤15dBμV
Frequency Response (±3dB)	30Hz~15KHz
Station Seeking Level	20~28dBμV
Distortion	≤1.0%
Stereo Separation (1KHz)	≥25dB
Antenna Impedance	75Ω

AM

Residual Noise Sensitivity (S/N=20dB)	≤35dBμV
Selectivity (±9KHz)	≥50dB

Screen

Screen size	6.2 inches(16:9)
Display resolution	800X480

DVD Player

S/N Ratio	≥75dB
THD+N	≤0.1%
Frequency Response (±3dB)	20Hz~20KHz
Maximum Output Power	4×40W
Load Impedance	4Ω

AUX IN

Distortion	≤0.5%
Frequency Response (±3dB)	20Hz~20KHz
Audio Input Level	0.5V

Preout

Output Impedance	10KΩ
Output Level	3V

Video

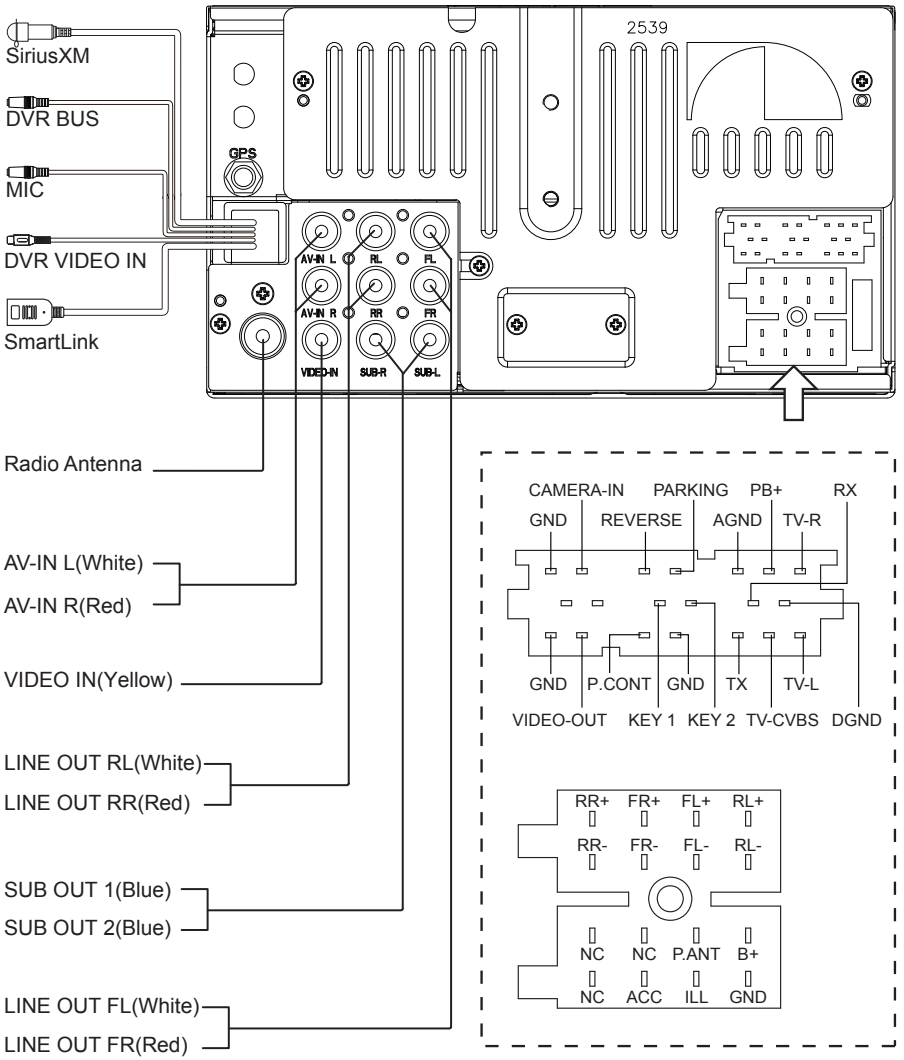
Normal Video Input Level (CVBS)	1.0±0.2V
Video Input Impedance	75Ω
Video Output Impedance	75Ω
Video Output Level	1.0±0.2Vp-p

Environment

Operating Temperature	-20°C ~ +60°C
Storing Temperature	-30°C ~ +80°C
Operating Humidity	45°C/80%RH
Storing Humidity	60°C/90%RH

Notice: When the unit is operated to extremes, such as with maximum power output for a long time, or the temperature is over 70°C, it will enter heat protection mode, the volume will be reduced automatically. This is normal.

Wiring diagram



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