JENSEN®

VX7022

6.2" Double DIN Multimedia Receiver
DVD / NAV / SiriusXM Ready™ / Built-In BT
Technology / iPhone® - iPod® / Pandora® / USB / AV In

Operation Manual

6VRMS
RCA Output

Android is a trademark of Google Inc.

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

2. Changes or modifications 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.

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.

"Made for iPod," and "Made for iPhone" mean that an electronic accessory (This head unit) 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 head unit with iPod® or iPhone® may affect mobile phone performance.

iPod®/ iPhone® are trademarks of Apple Inc., registered in the U.S. and other countries.

VX7022

Thank you for choosing a Jensen product. We hope you will find the instructions in this owner's manual clear and easy to follow. If you take a few minutes to look through it, you'll learn how to use all the features of your new Jensen VX7022 Multimedia Receiver for maximum enjoyment. Please save this manual for future reference.

We recommend having your Jensen VX7022 Multimedia Receiver installed by a reputable installation shop.

FEATURES

DVD

- Audio Equalizer
- Next Chapter and Previous Chapter
- Play/Pause
- Track Direct Entry
- Disc Menu
- Selection Repeat / Track Repeat
- Disc Audio
- Disc Language
- Pic Control

CD / MP3 / WMA

- CD-Text Compatible
- ID3 Tag Compatible
- Directory Search (MP3 / WMA Only)
- MP3 and WMA Files on a DVD+R / RW
- Audible Forward / Reverse Track Search (CD-DA Only)
- Random, Repeat and Intro
- Play, Pause, Stop, Next Track and Previous Track

AM-FM

- USA / European Frequency Spacing
- 30 Station Presets (18 FM / 12 AM)
- Auto Stereo / Mono
- Local / Distance
- Auto Store / Preview Scan

iPod®/iPhone®

- iPod®/ iPhone® via USB
- High Speed Direct Connect Interface to Access iPhone® and iPod® Playlists, Artists, Albums
- Power Management Charges iPhone® / iPod® while Connected

VX7022

SiriusXM Ready®

- Satellite Channel Name, Artist, Song, and Categories Displayed on Monitor (Vehicle Tuner and Subscription required and sold separately)

Chassis

- 2.0 DIN (Import / ISO-DIN Mountable)
- Fixed Front Panel
- 6.2" High Definition TFT LCD
- 800h x 480w x RGB WVGA

General

- Beep Tone Confirmation (ON-OFF Option)
- BT Hands-Free operation for safety and convenience and A2DP for streaming music from your smartphone.
- One Composite Video Output for Additional Screens
- Front Panel Audio/Video Input
- Front Panel USB - Playback Music / Video Files via Portable Hard Drives / USB flash drives
- Ten-Band Graphic Equalizer
- 6VRMS Front / Rear / Subwoofer RCA Line Output
- Rear Camera Input
- Touch Screen Calibration Mode
- Rotary Encoder Audio Control
- HDMI / MHL Connectivity - See and control smartphone apps on the larger TFT screen. *Some apps may not be supported.

Rear Camera

- The VX7022 is "camera ready." Before accessing any camera features, you must purchase and install a rear video camera.

Built-In Navigation

- iGo Primo Next Gen Navigation Engine
- USA Map Data (Tele Atlas)
- >10 Million Points of Interest
- 4GB SD Card w/ Navigation Software
- Latest Map Guarantee (Must be redeemed within 30 days of initial activation)
- 13 Natural Voice Languages for Navigation Guidance

WARNING! Never install this unit where operation and viewing could interfere with safe driving conditions.

WARNING! To reduce the risk of a traffic accident (except when using for rear view video camera) never use the video display function while driving the vehicle. This is a violation of federal law.

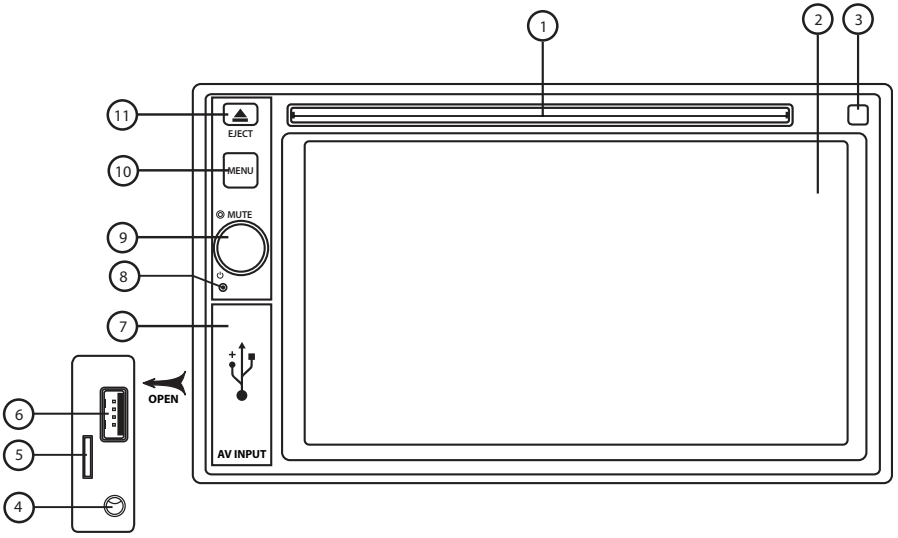
WARNING! Never disassemble or adjust the unit.

WARNING! To prevent injury from shock or fire, never expose this unit to moisture or water.

WARNING! Never use irregular discs.

WARNING! Using an improper fuse may cause damage to the unit and result in fire.

CONTROLS AND INDICATORS



VX7022 Controls and Indicators

1. **Disc Slot:**
   Accepts DVD/CD/MP3 discs. If the unit is turned on, playback begins when a disc is inserted.
2. **LCD Screen and Touch Screen:**
   Touch icons on this screen to access menus or control functions.
3. **Remote Sensor:**
   Used to receive command signals from the remote control.
4. **3.5mm AV IN Jack:**
   This connector accepts a 3.5 mm jack through which signals from various audio/video devices can be applied to the unit.
5. **MicroSD Card Slot:**
   Used to insert microSD cards containing navigation software. Do not delete or modify SD card contents.

6. **USB Slot:**
   Used to connect an iPhone/iPod®, MP3 player or USB flash drive for playback of music/video files.
7. **Interface Cover:**
   Covers the 3.5mm AV In, MicroSD card and USB slot.
8. **Reset Button:**
   Press this button to reset the system settings (except password and parental lock settings) and to correct a system halt or other illegal operation. Use the tip of a pen to press the Reset button.
9. **Power On/Off (⏻) Button / Rotary Volume (◉) Knob / Mute Button**
   Press to turn the unit ON. Press and hold to turn the unit OFF.
   Rotate the knob to adjust the volume.
   Press the knob momentarily to mute the audio. Press the knob again to restore the audio.
10. **Menu Button:**
    Press this button to access the Main SRC Menu.
11. **Eject (⏏) Button:**
    Press this button to eject a DVD/CD/MP3 disc. Disc play is stopped, the disc is ejected and the unit will change to radio operation. If the disc is not removed from the unit and the button is pressed again, the disc will be re-loaded. If the disc is not removed from the disc slot within 10 seconds of being ejected, it will be automatically reloaded to prevent it from being accidentally damaged.

NOTES ON REMOTE CONTROL USAGE

- Aim the remote control at the TFT/screen.
- Remove the battery from the remote control or insert a battery insulator if the remote control will not be used for a month or longer.
- DO NOT store the remote control in direct sunlight or in a high temperature environment, or it may not function properly.
- The battery will last for 6 months under normal conditions. If the remote control does not work, please change the battery.
- Use lithium battery type CR2025 (3V) only.
- DO NOT recharge, disassemble, heat or expose the battery to fire.
- Insert the battery in the proper direction according to the (+) and (-) polarity marks.
- Store the battery in a place where children cannot reach it to avoid the risk of an accident.

Remote Control Function Description

1. **SOURCE (SRC) Button:** Press this button to switch between and select available sources. (Radio/Disc/Phone/USB/Phone-Audio/SWC/AUX-1/AUX-2/ Camera)

2. **EJECT Button (⏏):** Press this button to eject a DVD/CD/MP3 disc. Disc play is stopped, the disc is ejected and the unit will change to radio operation. If the disc is not removed from the unit and the button is pressed again, the disc will be re-loaded. If the disc is not removed from the disc slot within 10 seconds of being ejected, it will be automatically reloaded to prevent it from being accidentally damaged.

3. **AUDIO Button:** Press to display and select the audio language in DVD mode. Each time the button is pressed, the language changes. **NOTE: The languages for audio vary from disc to disc.**

4. **VOLUME Button (VOL + and -):** Press these buttons to increase or decrease the playback volume.

5. **BAND Button:** Press this button to scroll though preset stations or when in disc mode, this button is used for Fast playback / Slow playback. Press this button to answer an incoming BT phone call.

6. **REPEAT (RPT) Button:** Repeat playback

7. **MUTE Button:** Press this button to turn the audio output ON and OFF.

8. **POWER Button (⏻):** Press this button to turn the unit ON and OFF.

9. **SUBTITLE Button:** Press to display and select the subtitle language in DVD mode. Each time the button is pressed, the subtitle language changes. **NOTE: The type and number of languages for subtitles vary from disc to disc.**

10. **MENU Button:** Press this button to access the root menu of a DVD or CD during playback. The disc will return to normal playback and the root menu will disappear if no selection is made within 10 seconds.

11. **FAST FORWARD [▶▶] Button:** Press this button to forward Disc play 2x, 4x, 8x or 20x normal speed. Press this button while in Radio mode to search available radio station by increasing tuning frequency.

12. **NEXT (▶▶I) Button:** Press this button to skip to the next chapter, track or song during playback of a disc. Press this button while in Radio mode to search available radio station by increasing tuning frequency.

13. **PLAY / PAUSE (►/II) Button:** Press this button to pause the playback of a disc. Press this button again to resume normal playback.

14. **PREVIOUS (I◀◀) Button:** Press this button to go back to the previous chapter, track or song during playback of a disc. Press this button while in Radio mode to search available radio station by decreasing tuning frequency.

15. **FAST REVERSE [◄◄] Button:** Press this button to reverse Disc play 2x, 4x, 8x or 20x normal speed. Press this button while in Radio mode to search available radio station by decreasing tuning frequency.

16. **NUMBER Buttons (1-6):** Press these buttons to directly access chapters and tracks, dialing phone numbers, or entering passwords.

17. **RANDOM (RDM) Button:** Press this button to play tracks or chapters in random order while playing a disc.

EXTERNAL DEVICES

Connecting External Devices

External devices, including a game console, video camera, etc. can be connected to this unit using its front A/V In 3.5mm connector (AV In1), the rear RCA inputs (AV In 2) or the USB port.

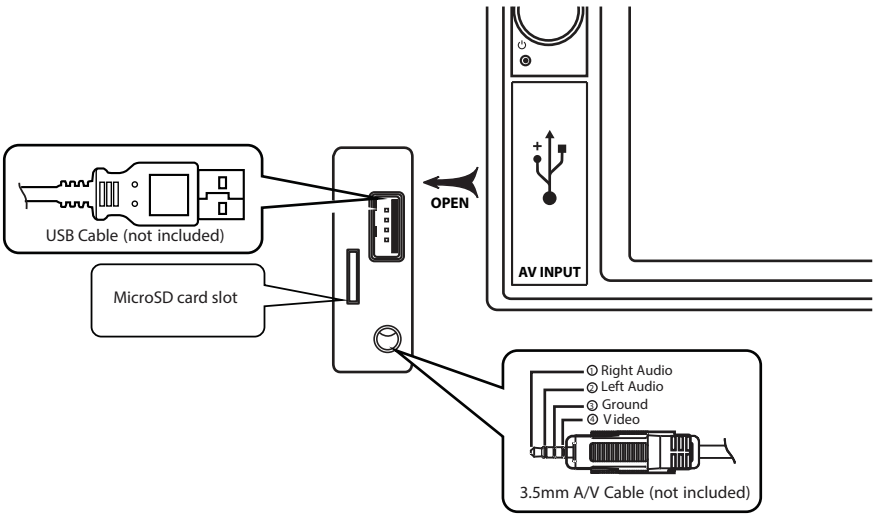
You cannot directly control external devices connected to the A/V inputs using the front panel controls or this unit's remote control.

AV In 1

AV In1 is used for playback of audio/video from an external device connected to the unit through a 3.5mm connector. The unit can increase or decrease the volume of the connected device. All other controls are done on the connected device. Select AV In1 to playback audio/video from the front panel 3.5mm AV In.

AV In 2

AV In2 is used for playback of audio/video from an external device connected to the RCA connectors located on the back of the unit (see the VX7022 Installation Guide). The unit can increase or decrease the volume of the connected device. All other controls are done on the connected device. Select AV In 2 to playback audio/video from the rear RCA AV In



Connecting External Devices

QUICK START GUIDE

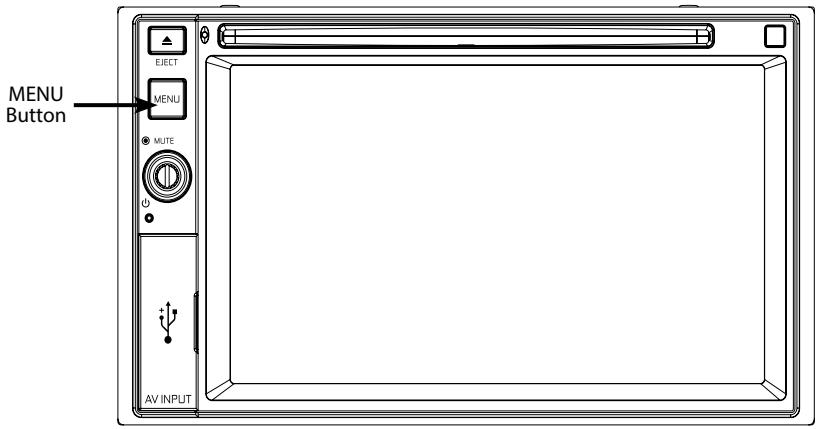
Turning the Unit ON or OFF

Press the front panel volume knob to turn the unit ON. Press and hold the volume knob > 1 second to turn the unit OFF.

Selecting an Audio/Video Source, Phone, Steering Wheel Controls, Backup Camera or Pandora

To select a source:

1. Press the front panel MENU button or touch the SRC icon to view the Main Source Menu



VX7022 Front Panel

2. Touch the desired source icon on one of the two main menu screens. Screen 1 of 2: Disc, Navigation, Radio, USB, AV-IN1, Settings, Phone or Camera. Touch Next at the bottom of the screen to access Screen 2 of 2: Steering Wheel Controls (SWC), AV-IN2, Pandora or SiriusXM (SXM).

System Settings Adjustment

To access and adjust system settings:

1. Touch the Settings (⚙) icon on the Main Menu screen to enter the SETTINGS MENU. Sub-menus where adjustments can be made will be highlighted.

Volume Adjustment / Turn On Volume

To increase or decrease the volume level, rotate the rotary encoder knob. The unit's front panel screen will display the volume level for 2 seconds. The volume level ranges from 0 to 50. To set the Turn-On volume, press and hold the rotary encoder knob 1 second while the green volume bar is displayed after setting the desired volume level. You will hear 2 beeps to confirm the new Turn-On volume level.

Audible Beep Confirmation

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

Muting the Audio

Press the front panel volume knob (◉) to mute the audio from the unit. Mute icon is displayed on the LCD screen. Press the front panel volume knob again to restore the audio volume to its previous level. Adjusting the volume or using any of the audio setup features cancels the mute function.

Equalizer Controls

Equalizer (**EQ)**: Adjustment can be made after entering one of the audio/video sources (Disc, Radio, USB, AV-IN or SXM).
Touch the Equalizer (**EQ)** icon to view the Equalizer Control Screen to select a desired preset setting (Optimal, Classic, Rock, Jazz, Techno or Pop), Flat setting, custom User setting, make adjustments to the audio Balance and Fader levels or to turn the Loudness option ON or OFF. Touch the SRC icon to return to the current source.

Playing a Disc

To begin playback of an Audio/Video Disc:

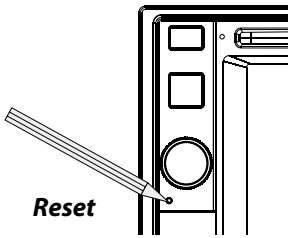
1. Press the front panel Power On/Off (⏻) button / Rotary Volume (◉) knob / Mute button to turn the unit ON.
2. Insert a disc with the label side facing up. Playback will begin automatically.

To eject a disc:

1. Press the front panel Eject (⏏) button.

Resetting the System

Soft Reset - To correct a system halt or other illegal operation, use the tip of a pen to press and release the reset button located just below the front panel interface cover.



System Reset Button

After a system reset, the unit restores all factory default settings.

Note: If the unit is reset while a DVD is playing, the unit will return to Main Menu once the reset is complete.

Parking Brake Inhibit

When the pink "Parking" wire is connected to the vehicle Parking Brake circuit, the front TFT monitor will display video when the Parking Brake is engaged.

EQUALIZER CONTROL MENU

Adjusting Equalizer Controls

The Equalizer adjustment screen allows the user to easily adjust the audio system to meet the acoustical characteristics of the vehicle. The acoustical characteristics vary depending on the type of vehicle and measurements.

The Balance/Fader levels and Loudness ON/OFF option of a selected audio/video source (Disc, Radio, USB/iPod®, AV-IN1, AV-IN2 or SXM) is also adjusted through the Equalizer adjustment screen.

Equalizer (EQ) (10 Band)

1. Touch the Equalizer (EQ) icon to view and select a desired preset setting (Optimal, Classic, Rock, Jazz, Techno or Pop) or Flat setting.
   Note: The equalizer will automatically change to "USER" when individual audio functions are adjusted.

Equalizer Adjustment Screen

2. Select a desired frequency range to be adjusted (31.5, 62.5, 125, 250, 500, 1K, 2K, 4K, 8K or 16K).
3. Touch and move the slide bar Up / Down to adjust the amount of boost/cut from +10/-10dB.

User Setting

Touch the User icon to customize each of the equalizers 10 frequency bands.

Flat Setting

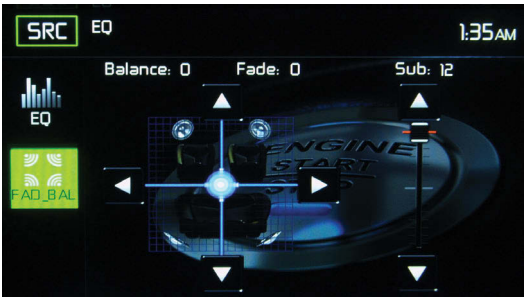
Touch the Flat icon to set the equalizers frequencies to the midpoint (0dB).

Reset
Touch the Reset icon to reset the 10 equalizer band frequencies to the mid point.

Loudness
Touch the Loud icon to turn the loud option ON or OFF. The loud option automatically alters the frequency response curve of audio to make it sound more natural when played at a lower volume level.

Exiting the Equalizer
To exit the Equalizer menu touch the SRC icon to return to the current source.

Fader-Balance
Balance - Touch the **FAD-BAL** icon on the left side of the equalizer screen to display the balance/fader screen.



Fade-Balance Adjustment Screen

Balance - This feature is used to balance the audio output levels between the left and right side of the vehicle. Touch the ◀ or ▶ icons to change the balance control settings -20 (Left) to +20 (Right). The setting can also be changed by touching screen within the grid to move the sphere.

Fader - This feature is used to fade the audio output levels between the front and rear of the vehicle. Touch the ▲ or ▼ icons to change the fade control settings -20 (Rear) to +20 (Front). The setting can also be changed by touching screen within the grid to move the sphere.

Sub (Subwoofer) - This feature is used to reduce or increase the subwoofer sound level. Touch the slide bar ▲ or ▼ icons to adjust the settings.

Exiting the Balance-Fader
To exit the balance-fader touch the SRC icon on the top left corner of the screen.

SYSTEM SETTINGS

To access System Settings, touch the ⚙ icon on the Main Menu screen. There are seven System Settings Sub-Menus (General, Audio, Time, Language, BT, DVD or Volume) that are used to adjust the performance of each option of the VX7022. The Version Sub-Menu is for information only. Touch a desired Sub-Menu and the Sub-Menu will appear highlighted. The features available for adjustment will appear on the screen.

System Settings Screens

Adjusting a Sub-Menu Feature

1. Touch the Sub-Menu feature to be adjusted.
2. Touch the ▲ or ▼ icon to view the previous or next feature page, if applicable. An options list appears on the right.
3. Touch the desired feature option once to make selection then touch again to confirm the selection.

General Sub-Menu Features - Radio Region/Frequency Spacing

USA - FM - 200kHz / AM - 10kHz
China - FM - 50kHz / AM - 9kHz
Japan - FM - 100kHz / AM - 9kHz
Europe - FM - 50kHz / AM - 9kHz
Europe (LW) - FM - 50kHz / AM - 9kHz / LW - 30kHz
OIRT - FM - 50kHz / AM - 9kHz / OIRT - 30kHz

Radio Lo/Dx - Touch the Distance or Local to increase or decrease radio tuning sensitivity to receive local or distant stations.

TFT Standby - Touch OFF, 10s or 20s to set the unit's front panel TFT LCD screen to stay ON continuously or to turn off the screen after 10 or 20 seconds.

Display Adjust - Touch Night, Dark, Normal or Bright to set the unit's front panel TFT LCD screen to be adjusted for day and night conditions.

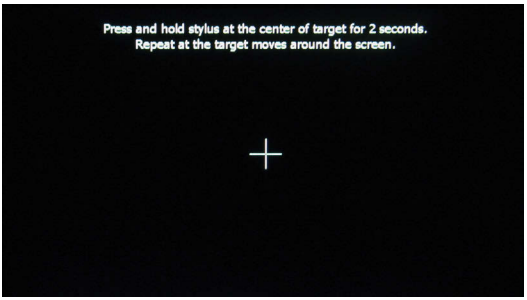
Beep - Touch ON or OFF to turn the selection confirmation beep ON or OFF.

Wallpaper - Touch wallpaper selection to select wallpaper. Touch again to confirm and set the wallpaper.

Calibration- The Touch Screen Calibration adjustment is used to set the parameters of the touch screen to ensure that when the screen is touched, it corresponds to the feature desired.

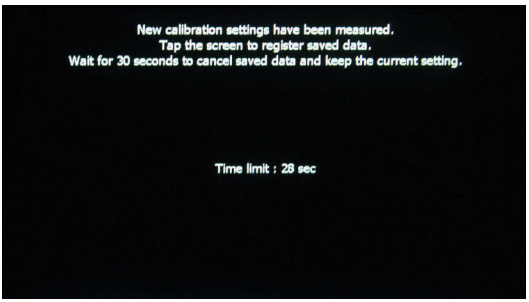
Note: Never use a pen or sharp object to calibrate the touch screen as this will damage the panel.

1. Touch the Calibrate icon and the first screen will appear with instructions.
2. Follow the instructions on the screen touching and momentarily holding finger or a stylus to the center of the target for 2 seconds. Repeat as the target moves to each corner of the screen and finally to the center.



Calibration Screen

3. The second screen will appear:



Calibration Screen Confirm tion

4. If the screen is touched, the new calibration parameters will be accepted. If the screen is not touched within thirty seconds, the new parameters will be disregarded.

Illumination - Customize the front panel illumination. Touch to change the illumination color. Select a color or touch Custom > Adjust to select the color palette.

UI Color - Touch green, red, amber, blue or purple to select the user interface color. Touch again to confirm and set the color.

Demo - Touch ON or OFF to turn the demonstration mode ON or OFF. The factory default setting is ON.

Audio Sub-Menu Features

The Audio Sub-Menu is used to turn the Subwoofer output ON or OFF and to select a Subwoofer crossover frequency.

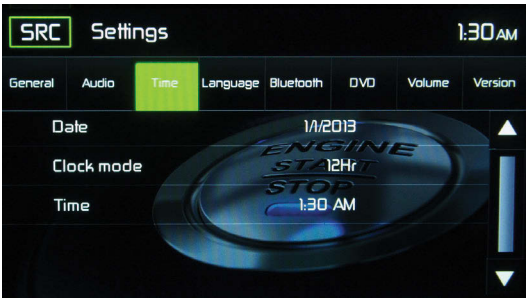
Audio Sub-Menu Screen

Subwoofer - Touch ON or OFF to turn the subwoofer output ON or OFF.

Subwoofer Crossover - Touch a crossover frequency (80Hz, 120Hz or 160Hz) to set a cut-off frequency for the subwoofer's low-pass filter (LPF).

Time Sub-Menu Features

The clock appears in the top right corner of the screen during certain operations.
Note: The AM/PM indication will change as you continue to adjust the hour past 12.



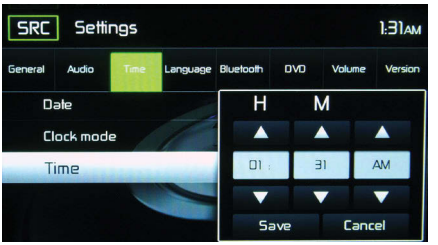
Time Sub-Menu Screen

Date - Touch the Date icon and use the ▲ or ▼ icons to set the day, month, and year. After setting the date, touch Save. The date will appear to the right of the Date option.

Clock Mode - Touch 12Hr to set the clock display to 12 hour time intervals using AM and PM. Touch 24Hr to set the clock display to a 24 hour time interval (or military time).

Time - Touch the Time icon and use the ▲ or ▼ icons to set the hour, minute, and either AM or PM. After setting the time, touch Save. The time will appear to the right of the Date option.

Date Settings

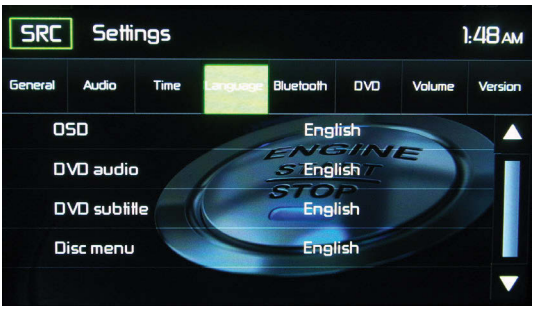


Time Settings

Date and Time Setting Screens

Language Sub-Menu Features

If a DVD supports more than one Subtitle or Audio language, all the languages are available for selection during playback. If the selected language is not supported by the DVD, then the default language is used.



Language Sub-Menu Screen

On Screen Display (OSD) - Touch English, Spanish or French to select the language for the OSD Display.

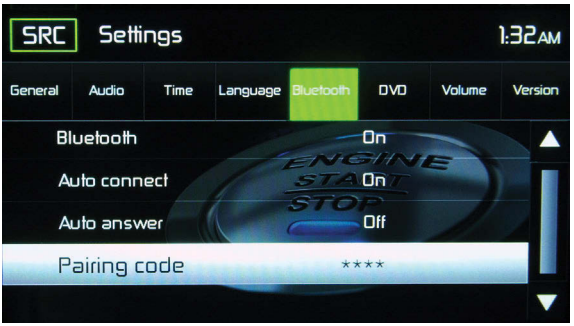
DVD Audio - If available, this feature allows the user to select one of the languages contained on the disc for the DVD audio.

DVD Subtitle - If available, this feature allows the user to select one of the languages contained on the disc for the DVD subtitles.

Disc Menu - Allows the user to select one of the languages contained on the disc menu**.**

BT Sub-Menu Features

The BT audio capabilities can be used for hands free applications. Before attempting to use the BT functions on this unit, please make sure the mobile phone to be connected supports BT functions.

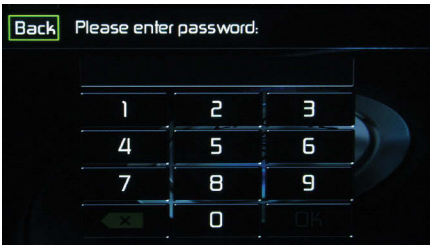


BT Pairing Code Screen 2

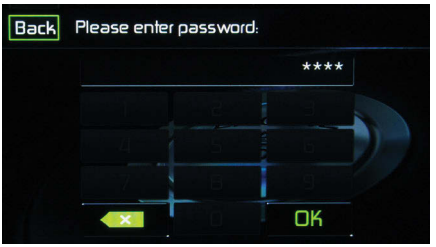
BT - Touch ON or OFF to turn the BT function ON or OFF.
Auto-Connect - Touch ON or OFF to turn the BT Auto-Connect function ON or OFF.
Auto-Answer - Touch ON or OFF to turn the BT Auto-Answer function ON or OFF.
Pairing - This feature allows the user to create a unique 4 digit code for pairing BT devices to the unit. The factory default pairing code is "5309".

1. Touch the Paring Code icon and the Pairing Code entry screen will appear.
2. Use the keyboard to enter a unique 4-digit Pairing Code.
3. Touch OK to confirm 4 digit pairing code.

Note: If a wrong digit is entered touching the arrow will remove the number.



Pairing Code Entry Screen

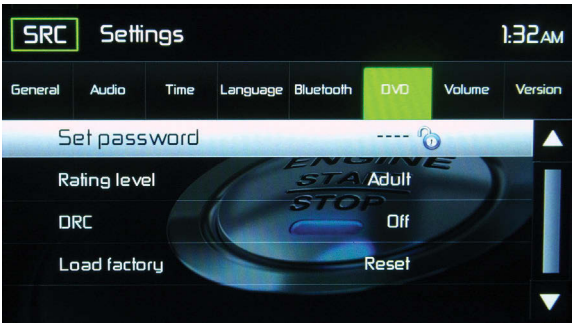


Pairing Code Confirm tion Screen

Pairing Code Screens

DVD Sub-Menu Features

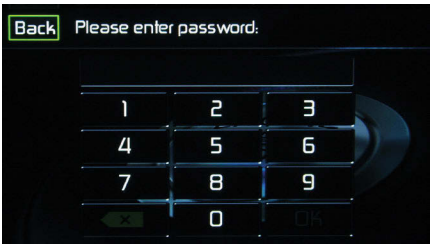
The DVD system has a built-in parental lock feature to prevent unauthorized persons from viewing restricted disc content. By default, the rating system is unlocked. Once set up, the parental lock is released only by entering the correct password. Once the password is entered, rating is available for setup.



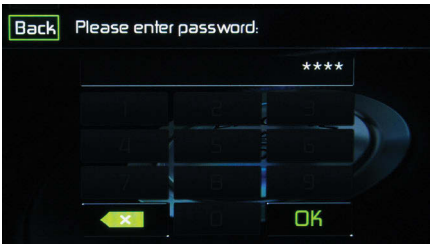
DVD Sub-Menu Screen

Set Password - This feature allows the user to create a unique 4-digit password to activate or deactivate the "Rating" option.

1. Touch the Set Password Code icon and the password entry screen will appear.
2. Use the keyboard enter a unique 4 digit Password.
   NOTE: If a wrong digit is entered touching the green arrow will remove the number.
3. Touch OK to confirm 4 digit Password.



Password Entry Screen



Password Confirm tion Screen

DVD Password Screens

Rating Level - Select the appropriate rating level for the intended viewing audience (Kid Safe, G, PG, PG-13, PG-R, R, NC-17, and Adult). The user may override higher ratings by using the password.

DRC - This feature allows the user to turn the Dynamic Range Control ON for better playback for low volumes or OFF.

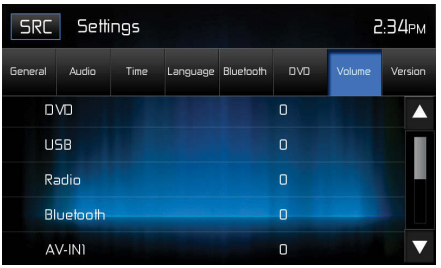
Load Factory - This feature allows the user to "Reset" the factory default settings (Rating system only).

To reset the password, access the "RATING" menu and enter the current password. Once the correct password is entered, you can access the "Password" field and enter a new one.

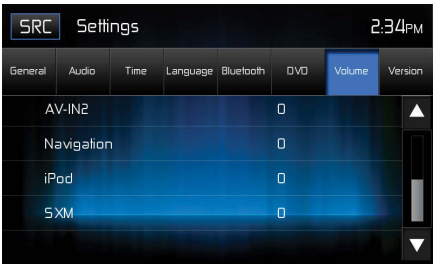
Note: Record the password and keep it in a safe place for future reference. The rating for each disc is marked on the disc, disc package, or documentation. If the rating is not available on the disc, the parental lock feature is unavailable. Some discs restrict only portions of the disc, allowing the appropriate content will play. For details, please refer to the disc description.

Volume Sub-Menu Features

The Volume Sub-Menu allows the user to increase or decrease the relative volume (+/- 6dB) of the audio output of each source individually.



Volume Sub-Menu Screen 1



Volume Sub-Menu Screen 2

Volume Sub-Menu Screens

DVD - Touch the DVD icon to enter the setting, then use the ▲ or ▼ icons increase or decrease the relative volume level between -6 to +6.

USB - Touch the USB icon to enter the setting of the connected device, then use the ▲ or ▼ icons to increase or decrease the relative volume level between -6 to +6.

Radio - Touch the Radio icon to enter the setting, then use the ▲ or ▼ icons increase or decrease the relative volume level between -6 to +6.

BT - Touch the BT icon to enter the setting of the connected device, then use the ▲ or ▼ icons to increase or decrease the relative volume level between -6 to +6.

AV In 1 - Touch the AV In 1 icon to enter the setting of the connected device then use the ▲ or ▼ icons to increase or decrease the relative volume level between -6 to +6.

AV In 2 - Touch the AV In 2 icon to enter the setting of the connected device then use the ▲ or ▼ icons to increase or decrease the relative volume level between -6 to +6.

Navigation - Touch the Navigation icon to enter the setting of the connected device then use the ▲ or ▼ icons to increase or decrease the relative volume level between -6 to +6.

iPod - Touch the iPod icon to enter the setting then use the ▲ or ▼ icons to increase or decrease the relative volume level between -6 to +6.

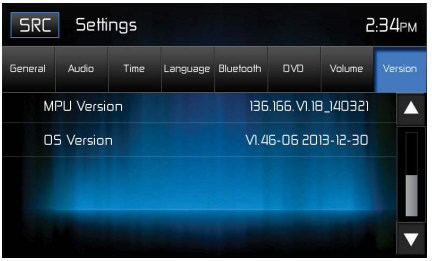
SXM - Touch the SXM icon to enter the setting then use the ▲ or ▼ icons to increase or decrease the relative volume level between -6 to +6.

The default relative volume level setting for all available sources is "0".

Version Sub-Menu Features

The Version Sub-Menu is used to identify the model and resident operating system as well as the hardware and software versions.

Version Sub-Menu Screen 1



Version Sub-Menu Screen 2

Exiting the System Setup Menu

To exit setup mode and resume normal playback, touch the SRC icon on the screen.

DISC OPERATION

Compatible Audio Discs Types

This system will play the following types of discs:

- DVD - DVDs that contain audio and/or video.
- Audio discs - Audio CDs that contain audio files.
- MP3 discs - A disc that contains audio, video and image files (for example, a CD-R with downloaded MP3 files).

Note: This unit is designed to play pre-recorded (original) CD/DVDs. Some burned CD/DVD's may not play due to different recording formats/speeds.

DVD Operation

Note: When properly installed, DVD video cannot be displayed on the main TFT screen unless the parking brake is applied. If you attempt to play a DVD while the vehicle is moving, the TFT screen displays:

Warning: It is illegal to view video while driving or operating a motor vehicle. Set parking brake to view video.

From the Main Menu Screen touch the DISC Icon or insert a disc into the disc slot, label side up. Playback begins when a disc is inserted correctly.

DVD Main Menu

When a DVD is playing, touch the TFT LCD screen to view the DVD main menu. The on-screen icons and touch key areas are outlined below.

DVD Main Menu

SRC Icon - Touch this icon to return to the Main Menu Screen.

DVD - Displays the current source.

Title/Chapter Information - The title/chapter information displayed is the current number of the track playing, the total number of tracks on the disc, the current chapter playing and the total number of chapters on the disc.

Time Display - This indicator displays the time as entered by the user in the Settings Menu.

Chapter Elapsed Playback Time - The elapsed playback time of chapter is displayed on the screen.

Total Playback Time - The total playback time of disc is displayed on the screen.

More (▲/▼) - Touch the ▲/▼ icons to display the next or previous page of the Disc menu.

(EQ) Equalizer - Touch this icon to access the Equalizer Control Menu. (See "Adjusting Equalizer Controls")

(⏮) Previous - Touch this icon to play the previous track.

(⏯) Play/Pause - Touch this icon to begin disc playback. Touch this icon again to pause disc playback.

(⏭) Next - Touch this icon to play the next track.

Direct Entry - Touch this icon to the display the Direct Entry Screen.

Menu - Touch this icon to view the DVD root menu.

A-B - Touch to repeat a specific portion from point A to point B of the disc. During playback touch A-B to set the starting point A. Touch A-B a second time to set the ending point B. The player will repeatedly play the part between Point A and Point B. Touch A-B a third time to cancel A-B repeat and resume playback.

Audio - Touch this icon to select an audio language for DVD playback. The audio language selection depends on the languages contained on the disc.

Language - Touch this icon to select a subtitle language for DVD playback. The subtitle language selection depends on the languages contained on the disc.

( ) Repeat - Touch this icon during playback to repeat the current chapter. The icon on the screen will light and small letter C will appear below the icon and the chapter will repeat. Touch this icon a second time to repeat the current title. The icon on the TFT LCD screen will light and small letter T will appear below the icon and the title track will repeat. Touch the icon a third time to repeat the title and chapter. The icon on the main TFT LCD screen will light and small letter A will appear below the icon and the title and chapter will repeat. Touch the icon again the repeat function will be cancelled. The icon on the main TFT LCD screen will dim and playback of the remainder of the disc will resume.

PIC - When the PIC icon is touched the picture adjust screen appears. Touch this icon during playback to adjust the color brightness, contrast, saturation and hue. The levels can be adjusted to suit the users preferences. The adjustments are accomplished by touching the + or - icons to decrease or increase the desired setting. The settings have range of 1 to 20.

Note: The Picture Adjustment Screen will turn OFF automatically if no adjustment is made within five seconds or any other part of the screen is touched.

DVD Picture Adjustment Screen

Direct Entry

When the Direct Entry icon is touched the Direct Entry Screen appears. The user can manually select a title or a chapter. By touching ▼ icon, the user can select a chapter or title. The title or chapter can be selected by touching the corresponding number for a title or chapter. After entering the numbers, touch the OK icon. If a wrong digit is entered, touching the arrow will remove the number. After touching OK, playback will begin.

DVD Chapter and Title Direct Entry Screen

Inserting a Disc

Upon inserting a DVD disc, DVD mode is entered and disc play begins. A disc cannot be inserted if there is already a disc in the unit or if the power is off.

Note: If Parental Lock (Rating) is activated and the disc inserted is not authorized, the 4-digit code must be entered and/or the disc must be authorized.

Note: DVD-R and DVD-RW will not play unless the recording session is finalized and the DVD is closed.

Ejecting a Disc- Press the Eject (▲) button on the front of the unit to eject the disc. The unit automatically reverts to Tuner mode. You may eject a disc with the unit powered off. The unit will remain off after the disc is ejected.

Resetting the Loading Mechanism - If the disc loads abnormally or an abnormal core mechanism operation occurs, press and hold the Eject (▲) button on the front of the unit to reset the loading mechanism. Normal operation resumes.

Accessing DVD Mode - To switch to DVD mode when a disc is already inserted, touch **SRC** on the TFT LCD screen to access the source menu. Touch the disc icon.

Multi-Language Discs (DVD Only)

Changing Audio Language - If you are watching a disc recorded in multiple languages, touch the TFT LCD screen, then touch AUDIO to choose a language. Each time the icon is touched the language will change.

Changing Subtitle Language - If you are watching a disc recorded in multiple languages with subtitles, touch the TFT LCD, then touch Language screen to choose the language that you would like the subtitles to appear.

Playback Information

During DVD and VCD playback, touch the TFT LCD screen to display playback information on the screen, including the current playback time.

DVD Playback Information

- DVD Video – Format of current disc.
- Time 00:01:30/00:36:10 – Indicates the playback time of the current track.
- Title 5/08 – Indicates the fifth of 8 titles on the DVD is currently playing.
- Chapter 2/16 – Indicates that the second of 16 chapters on the DVD is currently playing.

VCD Playback Information

- VCD2.0 – Format of current disc.
- Time 00:01:30/00:36:10 – Indicates the playback time of the current track.

General Disc Information

Disc Properties

Symbol	12cm Disc Properties	Max Play Time
DVD VIDEO DVD VIDEO	Single side single layer (DVD-5) Single side double layer (DVD-9) Double side single layer (DVD-10) Double side double layer (DVD-18)	(MPEG 2 Method) 133 minutes 242 minutes 266 minutes 484 minutes
COMPACT DISC	Single side single layer (VCD)	(MPEG 1 Method) 74 minutes
COMPACT DISC DIGITAL AUDIO	Single side single layer	74 minutes

Disc Symbols

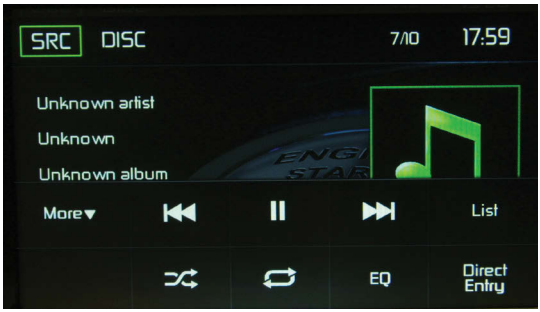
Symbol	Meaning
8	Number of voice languages recorded. The number inside the icon indicates the number languages on the disc (maximum of 8).
32	Number of subtitle languages available on the disc (maximum of 32).
9	Number of angles provided (maximum of 9).
16:9 LB	Aspect ratios available. "LB" stands for Letter Box and "PS" stands for Pan/Scan. In the example on the left, the 16:9 video can be converted to Letter Box video.
	Indicates the region code where the disc can be played. • Region 1: USA, Canada, East Pacific Ocean Islands • Region 2: Japan, Western Europe, Northern Europe, Egypt, South Africa, Middle East • Region 3: Taiwan, Hong Kong, South Korea, Thailand, Indonesia, South-East Asia • Region 4: Australia, New Zealand, Middle and South America, South Pacific Ocean Islands/Oceania • Region 5: Russia, Mongolia, India, Middle Asia, Eastern Europe, North Korea, North Africa, North-West Asia • Region 6: Mainland China • ALL: All Regions

CD Operation

From the Main Menu Screen touch the DISC icon or insert a CD into the disc slot, label side up. Playback begins in CD mode when a disc is inserted correctly.

CD Main Menu

The on-screen icons and touch key areas are outlined below.



CD Main Menu

SRC Icon - Touch this icon to return to the Main Menu Screen.

DISC - Displays the current source.

Track Number- Lists the current track playing and the total number of tracks contained on the disc.

Time Display - This indicator displays the time as entered by the user in the Settings Menu.

CD Disc Information Display - Displays the artist, the title of the track and the title of the album.

More (▲/▼) - Touch the ▲/▼ icons to display the next or previous page of the Disc menu.

(⏮) Previous - Touch this icon to play the previous track.

(⏯) Play/Pause - Touch this icon to begin disc playback. Touch this icon again to pause disc playback.

(⏭) Next - Touch this icon to play the next track.

List - Touch this icon to access the list of tracks contained on the disc. Touch a desired track icon twice and the track will begin playing.

(⤮) Shuffle - Touch this icon to play tracks in the directory in a random order. The icon will light on the main CD screen.

(⟲) Repeat - Touch this icon to repeat playback of the current track. The icon on the TFT LCD screen will light and small number 1 will appear below the icon and the track will repeat. Touch this icon a second time and the album will repeat. The icon on the TFT LCD screen will light and small letter a will appear below the icon and the album will repeat. Touch the icon again the repeat function will be cancelled. The icon on the TFT LCD screen will dim and playback of the remainder of the disc will resume.

(EQ) Equalizer - Touch this icon to access the Equalizer Control Menu.
(See "Adjusting Equalizer Controls")

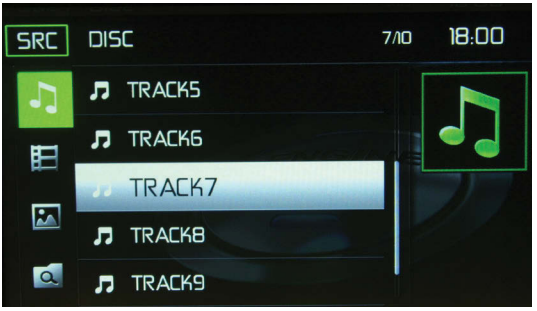
Direct Entry - Touch this icon to the display the Direct Entry Screen.

Track Elapsed Playback Time - The elapsed playback time of track is displayed on the on the TFT LCD screen.

Track Total Playback Time - The total playback time of track is displayed on the main CD screen.

CD List

Touching the List icon will display the CD List Screen. The CD List Screen illustrates the contents of a CD disc. The contents are divided into folders and various file types. Touching the icon will display the files present on the disc.



CD List Screen

(**Audio Files** - Touch the audio file icon to display the audio file. Touch the audio file icon to select a track. Touch the audio file icon again to confirm and playback will begin.

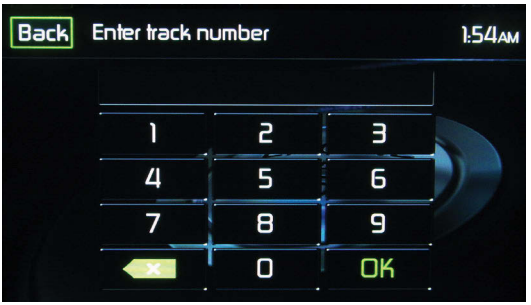
(**Video Files** - Touch the video file icon to display the video file. Touch the video file icon to select a video file. Touch the video file icon again to confirm and playback will begin.

( ) **Image Files (JPEG etc)** - Touch the image icon to display a folder or individual JPEG file. Touch the image icon to select a folder or an individual JPEG file. In the case of a JPEG folder touch the folder icon twice and the contents of the folder will be displayed. Touch the JPEG image icon to select and view an individual JPEG file.

( ) **Folders** - Touch the icon to display the folder/file hiearchy. Touch the folder icon twice and the contents of the folder will be displayed. Touch the file icon to select a file. Touch the icon again to confirm and open the file.

Track Direct Entry

When the Direct Entry icon is touched the Direct Entry Screen appears. The user can manually select a track by touching the corresponding number. After entering the track numbers touch the OK icon. If a wrong digit is entered touching the arrow will remove the number. After touching OK playback will begin.



CD Track Direct Entry Screen

Controlling Playback

Inserting a Disc - Upon inserting a CD, disc play begins. You cannot insert a disc if there is already a disc in the unit or if the power is off.

Ejecting a Disc - Press the Eject (⏏) button on the front of the unit to eject the disc. The unit automatically reverts to Tuner mode. You may eject a disc with the unit powered off. The unit will remain off after the disc is ejected.

Resetting the Loading Mechanism - If the disc loads abnormally or an abnormal core mechanism operation occurs, press and hold the Eject (⏏) button on the front of the unit to reset the loading mechanism. Normal operation resumes.

Pausing Playback - Touch the Play/Pause (⏯) icon to suspend or resume disc play.

Moving Through Tracks - Touch the Next (⏭) icon to advance to the next track on the disc. Touch the Previous (⏮) icon to move to the previous track.

Repeat Playback - Touch the 🔁 icon to alter repeat mode according to the following:

- CD-DA: Repeat Track > Repeat Album > Repeat Off
- CD-R/RW: Repeat Track > Repeat Album > Repeat Off

Random Play Select - Touch the Random (🔀) icon to play the tracks on the disc in a random, shuffled order. Touch the Random (🔀) icon again to cancel Random Play mode.

Note: CD-R and CD-RW will not play unless the recording session is finalized.

MP3/WMA Operation

MP3 is a format for storing digital audio. An audio CD-quality song can be compressed into the MP3 format with very little loss of quality, while taking up much less space. Insert a MP3 Disc into the disc slot, label side up. Playback begins in MP3 mode when a disc is inserted correctly. The unit plays the songs in the order they were burned on to the disc. The menu for playing audio MP3 music files is the same as previously described for CD discs.

Media and File Requirements

This player allows you to play back MP3 and WMA files recorded onto CD-R/RWs, DVD+R/RWs, and DVD-R/RWs. For CD-RW discs, please make sure it is formatted using the full method and not the quick method to prevent illegal disc operation. For the greatest file capacity, Dual Layer DVD's can be used when burning music to a disc.

MP3 Format Compatibility

The file naming formats listed below are compatible with this unit:

- ISO 9660 – file name: 12 characters, file extension: 3 characters
- ISO 9660 – file name: 31 characters, file extension: 3 characters
- Joliet – 64 characters

If the file or folder name does not conform to ISO 9660 file system standards, it may not be displayed or played back correctly. Use the following settings when compressing audio data for your MP3 disc:

- Transfer Bit Rate: 128kbps
- Sampling Frequency: 48kHz

When recording MP3 up to the maximum disc capacity, disable additional writing. For recording on an empty disc up to maximum disc capacity, use the "Disc at once" setting.

MP3 Playing Order

When selected for play, files and folders are accessed in the order they were written by the CD writer. As a result, the order in which they are expected to be played may not match the order in which they are actually played. You may be able to set the order in which MP3/WMA files are to be played by writing them onto a medium such as a CD-R with their file names beginning with play sequence numbers such as "01" to "99".

Controlling Playback

Inserting a Disc- Upon inserting a MP3/WMA disc, disc play begins. You cannot insert a disc if there is already a disc in the unit or if the power is off.

Ejecting a Disc - Press the Eject (⏏) button on the front of the unit to eject the disc. The unit automatically reverts to Tuner mode. You may eject a disc with the unit powered off. The unit will remain off after the disc is ejected.

Resetting the Loading Mechanism - If the disc loads abnormally or an abnormal core mechanism operation occurs, press and hold the Eject (⏏) button on the front of the unit to reset the loading mechanism. Normal operation resumes.

Playing MP3/WMA Files - After inserting a MP3/WMA disc, files will play in the sequence of the "Root' directory.

Note: When burning MP3 / WMA files onto a DVD disc, use folders when burning large numbers of songs / files to a disc for easy music navigation. Select the "Disc at Once" option and close your disc.

Note: CD-R and CD-RW will not play unless the recording session is finalized.

Pausing Playback - Touch the Play/Pause (⏯) icon to suspend or resume playback.

Moving Through Tracks - Touch the Next (⏭) icon to advance to the next track Touch the Previous (⏮) icon to move to the previous track on the MP3 disc.

Repeat Playback - Touch the Repeat (🔁) icon to alter repeat mode as follows: Repeat Single > Repeat Folder > Repeat All > Repeat Off.

Random Play Select - Touch the Random (🔀) icon to play the tracks on the MP3 disc device in a random, shuffled order. Touch the Random (🔀) icon again to cancel Random Play mode.

RADIO TUNER OPERATION

From the main menu screen touch the radio icon. The radio tuner display screen appears.

Radio Tuner TFT Display

The on-screen icons and touch key areas are outlined below.

Radio Tuner TFT Display Screen

SRC Icon - Touch to view the SOURCE MENU and select a new playback source.
Radio - Displays the current source.
Time Display - This indicator displays the time as entered by the user in the Settings Menu.
Preset List - Provides a display of the preset frequencies. Touch to recall a preset station. The radio can store 6 FM1, 6 FM2, 6 FM3, 6 AM1, and 6 AM2 frequency presets.
Local / Distance - Displays the Local /Distance setting.
RT (Radio Text) - Allows a radio station to transmit a 64-character free-form text that can be either static (such as station slogans) or in sync with the programming (such as the title and artist of the currently playing song).
PS (Program Service) - An eight-character static display that represents the call letters or station identity name. Most RDS capable receivers display this information. Touch "PS" or "RT" to alternate between RT / PS / PTY feature.
Stereo - Displays stereo radio signal reception.
FM1 - Displays the current preset frequency band.
P1 through P6 - Displays the current preset frequency within the preset frequency band that currently playing.

107.7 MHz - Displays the radio station frequency that is currently playing.

More (▲/▼) - Touch the ▲/▼ icons to display the next or previous page of the Disc menu.

(⏮) **Seek Down / Manual Seek** - Touch this icon to seek the previous available radio station. Touch and hold this icon (Until "Manual Seek -" is displayed) to manually tune the radio in increments. Default Seek Down mode is resumed after 5 seconds of inactivity.

(AS) Auto Store - Touch to automatically search and store all strong stations.

(⏭) Seek Up / Manual Seek - Touch this icon to seek the next available radio station. Touch and hold this icon (Until "Manual Seek +" is displayed) to manually tune the radio in increments. Default Seek Up mode is resumed after 5 seconds of inactivity.

Band - Touch to change between AM/FM bands.

Option - Touch this icon to display the Options screen.

Save - Touch this icon to save a radio station frequency in one or all six preset stations on FM band 1, 2, 3 or AM band 1 and 2.

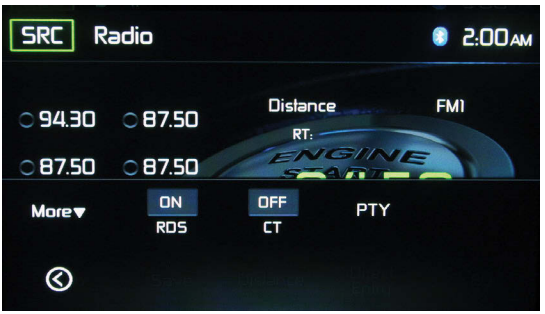
Local (LO) / Distance (DX) - Touch to select and activate local and distance station reception. When the Local function is on, only radio stations with a strong radio signal are tuned in.

Direct Entry - Touch this icon to the display the Direct Entry Screen.

(EQ) Equalizer - Touch this icon to access the Equalizer Control Menu. (See “Adjusting Equalizer Controls”)

Option Screen

Touching the Options icon will display RDS, CT and PTY function options.



Radio Tuner Option Screen

RDS ON/OFF - Radio Data System (RDS) is a communications protocol standard for embedding small amounts of digital information in conventional FM radio broadcasts.

CT ON/OFF - (Clock Time) Some stations broadcast the time and date within the encoded RDS 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 - The Program Type (PTY) function displays the program category of the current station such as category (news, sports, talk etc.) Use the scroll bar to select various categories. Touching the Back icon returns the user to main tuner screen.

PTY Screen

There are 27 categories in the PTY function.

1. None	8. Adult Hits	15. Jazz	22. Personality
2. News	9. Soft Rock	16. Classic	23. Public
3. Info	10. Top 40	17. RGB	24. College
4. Sports	11. Country	18. Soft RGB	25. Weather
5. Talk	12. Oldies	19. Language	26. Test
6. Rock	13. Soft	20. Religious Music	27. Alert
7. Classic Rock	14. Nostalgia	21. Religious Talk	

Direct Entry Tuning

When the Direct Entry icon is touched the Direct Entry Screen appears. The user can enter the desired radio station frequency using the on-screen number pad. After entering the radio station frequency touch the OK icon. If a wrong digit is entered touching the green arrow will remove the number. After touching OK the radio will tune to the entered station. Playback will begin.

Radio Direct Entry Screen

Using Preset Stations

Six numbered preset icons store and recall stations for each band. All six stored stations (P1 through P6) for the current band appear on the screen.

Storing a Station

1. Select a band (if needed), then tune to a desired radio station frequency.

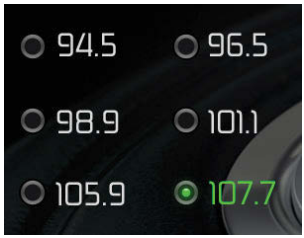
2. Touch the on-screen Save icon. The following screen will appear.

Preset Save Screen

3. Touch the preset number in which you would like to store the current station. The station frequency is displayed at the top of the menu. The preset number will appear highlighted. The station frequency will be stored in the highlighted preset. The station will be displayed Tuner TFT LCD screen. Station can also be stored by touching and holding the preset icon to store the station currently tuned as a preset.

Recalling a Station

1. Select a preset band (if needed).
2. Touch an on-screen preset icons (P1 through P6) to select the corresponding stored station.



Preset Station Screen

Auto Store (AS)

To select six strong stations and store them in the current band. This feature is most useful when travelling in an area where you are not familiar with the local stations.

1. Select a band (if needed).
2. Touch the AS icon to activate the Auto Store function. FM Band 1 will be filled if enough stations are detected. The AM Bands function in a similar manner. As new stations are found they will replace stations already stored in that band.

   Note: If stations have already been set as favorites, activating the Auto-Store feature will erase those stations and enter the new strong stations.

Local (LOC) / Distance (DX) Settings

When the Local function is on, only radio stations with a strong radio signal are played. To activate the Local function in the AM/FM tuner mode, touch "More" on the Tuner user interface (UI) screen. The Local/Distance icon is displyed. Touch Local / Distance to turn the function ON or OFF. When the Local or Distance function is active, the Local / Distance text in the UI is displayed.

USB OPERATION

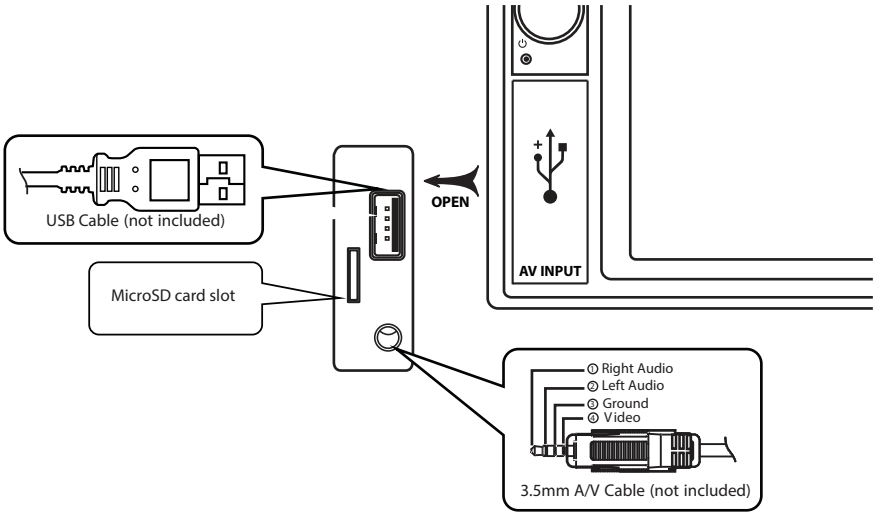
The unit will read the audio/video files on USB devices automatically.

NOTE: The USB port will recognize most USB flash memory devices and portable hard drives. Hard drives must be formatted to FAT32. NTFS is not supported.

Inserting / Removing a USB Device

To insert a USB device:

1. Locate the Interface Cover on the front of the radio.



USB Slot and microSD Card Slot Location

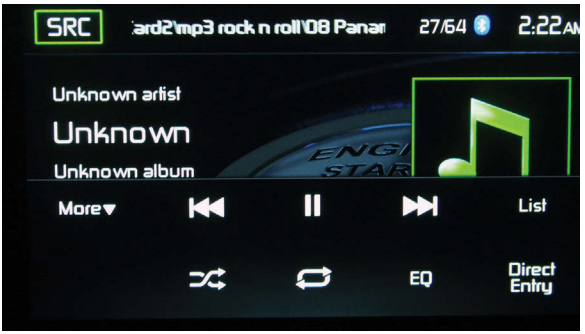
2. Lift the protective cover to reveal the USB slot.
3. Insert the USB device into the USB port.

Note: The microSD card is used for navigation only. Do not modify/delete any files.

USB Operation From the main menu screen touch the USB icon.

USB Main Menu

The on-screen icons and touch key areas are outlined below.



USB Main Menu

SRC Icon - Touch this icon to return to the Main Menu Screen.

Scrolling Display - Displays current track information.

Track Number - Lists the current audio track playing and the total number of audio tracks in audio mode. Lists the current video folder and the total number of video folders in video mode.

Time Display - This indicator displays the time as entered by the user in the Settings Menu.

More (▲/▼) - Touch the ▲/▼ icons to display the next or previous page of the USB menu.

(⏮) **Previous** - Touch this icon to play the previous track.

(▶/II) **Play/Pause** - Touch this icon to begin playback. Touch this icon again to pause playback.

(⏭) Next - Touch this icon to play the next track.

List - Touch this icon to access the list of audio and video files contained on the USB device. Touch a folder icon and the contents of the folder will be displayed. Touch a desired track icon twice and the track will begin playing.

(⤮) Shuffle - Touch this icon to play audio or video tracks in a random order. The icon will be displayed on the TFT.

(⟲) Repeat - In audio mode touch this icon to repeat playback of the current audio track. The icon on the TFT will be displayed and a small letter "A" will appear below the icon and ALL audio tracks will repeat. Touch this icon again and the current track will repeat (Single track). The icon on the TFT will display and small number "1" will appear below the icon. Touch the icon again and the repeat function will be cancelled.

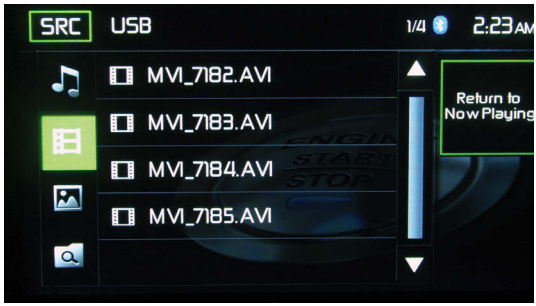
In video mode touch this icon during playback to repeat the current track. The icon on the TFT will display and small number "1" will appear below the icon and the track will repeat. Touch the icon again to repeat all the tracks. The icon on the TFT will display and a small letter "A" will appear below the icon and all the tracks will repeat. Touch the icon again the repeat function will be cancelled.

(EQ) Equalizer - Touch this icon to access the Equalizer Control Menu.
(See “Adjusting Equalizer Controls”)

Direct Entry - Touch this icon to the display the Direct Entry Screen.

USB List

Touching the "List" icon will display the USB List Screen. The USB List Screen displays the audio and video files present on the USB device. The contents are divided into folders and various file types. The file types consist of audio and video files. Touching the folder icon will display the files present in the folder.



USB List Screen

(♫) **Audio Files** - Touch the audio file icon to display the audio file. Touch the audio file icon to select a track. Touch the audio file icon again to confirm and playback will begin.

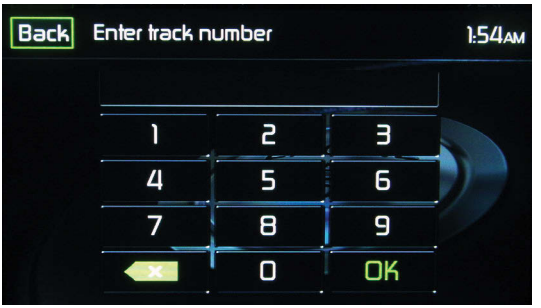
(🎞) **Video Files** - Touch the video file icon to display the video file. Touch the video file icon to select a video file. Touch the video file icon again to confirm and playback will begin.

(🖼) Image Files (JPEG etc) - Touch the image icon to display the image file. Touch the image file icon to select an image file. Touch the image file icon again to confirm and view the image.

(🔍) **Folders** - Touch the icon to display the folder/file hiearchy. Touch the folder icon and the contents of the folder will be displayed. Touch the file icon to select a file. Touch the icon again to confirm and open the file.

Direct Entry

When the Direct Entry icon is touched the Direct Entry Screen appears. The user can manually select a track by touching the corresponding number. After entering the track numbers touch the OK icon. If a wrong digit is entered use the arrow/backspace key to remove the number. After touching "OK" playback will begin.



USB Track Direct Entry Screen

Moving Through Tracks

Touch the Next (⏭) icon to advance to the next track on the USB device.

Touch the Previous (⏮) icon to move to the previous track on the USB device.

Pausing Playback

Touch the Play/Pause (⏯) icon to suspend or resume playback.

PIC - When the PIC icon is touched the "Picture Adjust" screen appears. Touch this icon during playback to adjust the brightness, contrast, saturation and hue. These levels can be adjusted to suit user preferences. The adjustments are accomplished by touching the + or - icons to decrease or increase the desired setting. The settings have range of 1 to 20.

USB Picture Adjust Screen

Note: The Picture Adjustment Screen will turn OFF automatically if no adjustment is made within five seconds or if any other part of the screen is touched.

iPod® / iPhone® Controls

Accessing iPod® Mode

The user can control an iPod®/iPhone® using the touch screen to access, albums, songs, etc.

The unit will automatically switch to iPod® mode when an iPod®nano, iPod® touch or iPhone® is plugged into the front panel USB connector. Also the iPod® can be accessed from the Main Menu Screen by touching the iPod® icon (only available when an iPod® or iPhone® is connected to the front panel USB connector).

iPod® / iPhone® Main Menu

The on-screen icons and touch key areas are outlined below.

iPod®/iPhone® Main Menu

SRC Icon - Touch this icon to return to the Main Menu Screen.

iPod - Displays the current source.

Track Number - Lists the current audio track playing and the total number of audio tracks in audio mode. Lists the current video folder and the total number of video folders in video mode.

Time Display - This indicator displays the time as entered by the user in the Settings Menu.

More (▲/▼) - Touch the ▲/▼ icons to display the next or previous page of the iPod® menu.

(⏮) Previous - Touch this icon to play the previous track.

(⏯) Play/Pause - Touch this icon to begin playback. Touch this icon again to pause playback.

(⏭) Next - Touch this icon to play the next track.

List - Touch this icon to access the list of audio and video files contained on the iPod®. Touch a folder icon and the contents of the folder will be displayed. Touch a desired track icon twice and the track will begin playing.

(⤮) Shuffle - Touch this icon to play audio or video tracks in a random order. The icon will light on the main TFT LCD screen.

(⟲) Repeat - In audio mode touch this icon to repeat playback of the current audio track. The icon on the TFT will display and a small letter "A" will appear below the icon and the all the audio tracks will repeat. Touch this icon again and single track will repeat. The icon on the TFT will display and small number "1" will appear below the icon. Touch the icon again the repeat function will be cancelled. The icon on the main TFT LCD screen will dim and playback of the remainder of the tracks will resume.

(EQ) Equalizer - Touch this icon to access the Equalizer Control Menu. (See “Adjusting Equalizer Controls”)

Direct Entry - Touch this icon to the display the Direct Entry Screen.

iPod® List

Touching the List icon will display the iPod® List Screen. The iPod® List Screen illustrates the audio and video files present in the iPod®. The contents are divided into folders and various file types. The file types consist of audio and video file. Touching the folder icon will display the files present in the folder.

iPod®/iPhone® List Screen

(♫) Audio Files - Touch the audio file icon to display the audio file. Touch the audio file icon to select a track. Touch the audio file icon again to confirm and playback will begin.

( ) Video Files - Touch the video file icon to display the video file. Touch the video file icon to select a video file. Touch the video file icon again to confirm and playback will begin.

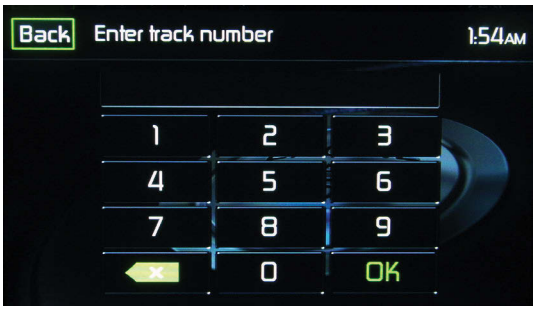
( ) Image Files (JPEG etc) - Image files are selected and controlled by the iPod®.

( ) Folders - Touch the icon to display the folder/file hiearchy. Touch the folder icon and the contents of the folder will be displayed. Touch the file icon to select a file. Touch the icon again to confirm and open the file.

Controlling Playback

Direct Entry

When the Direct Entry icon is touched the Direct Entry Screen appears. The user can manually select a track by touching the corresponding number. After entering the track numbers touch the OK icon. If a wrong digit is entered touching the arrow will remove the number. After touching OK playback will begin.



iPod®/iPhone® Track Direct Entry Screen

Moving Through Tracks

Touch the Next (⏭) icon to advance to the next track on the iPod®.
Touch the Previous (⏮) icon to move to the previous track on the iPod®.

Pausing Playback

Touch the Play/Pause (▶II) icon to suspend or resume playback.

PIC - When the PIC icon is touched the picture adjust screen appears. Touch this icon during playback to adjust the color brightness, contrast, saturation and hue. The levels can be adjusted to suit the users preferences. The adjustments are accomplished by touching the + or - icons to decrease or increase the desired setting. The settings have range of 1 to 20.

Note: The Picture Adjustment Screen will turn OFF automatically if no adjustment is made within five seconds or if any other part of the screen is touched.

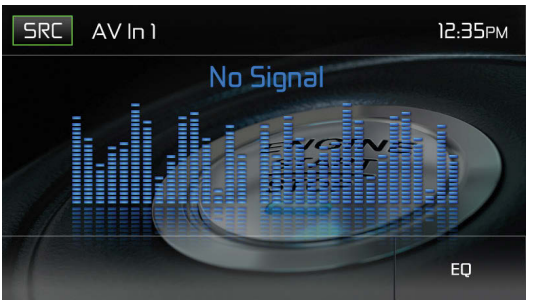
iPod®/iPhone® Picture Adjust Screen

Connecting External Devices

AV In 1 / AV In 2

AV In 1

AV In 1 is used for playback of audio/video from an external device connected to the unit through a 3.5mm jack located on the front panel. The unit can increase or decrease the volume of the connected device. All other controls are done on the connected device.



AV In 1 Screen (No Signal)

AV In 2

AV In 2 is used for playback of audio/video from an external device connected through RCA connectors located on the back of the unit. The unit can increase or decrease the volume of the connected device. All other controls are done on the connected device.

AV In 2 Screen (No Signal)

NOTE: Audio/Video devices must be connected to this unit using an audio/video adapter cable that is available separately.
NOTE: Video will only play when the vehicle parking brake is engaged. The parking brake wire must be connected for this feature to operate.

Using a Smartphone via HDMI/MHL

What is HDMI/MHL? HDMI (High Definition Multimedia Interface) is a digital interface for audio and video sources. HDMI is a digital replacement for analog video standards.

Mobile High-Definition Link (MHL) is an industry standard for a mobile audio video interface that allows consumers to connect mobile phones, tablets, and other portable consumer electronics (CE) devices to high-definition televisions (HDTVs) and mobile multimedia receivers.

HDMI/MHL allows you to use the multimedia TFT touch screen to control your mobile device.

Note: It may not be legal to view apps on a smartphone while driving or controlling a vehicle. It is the drivers responsibility to obey local and federal laws while driving or controlling a vehicle.

Interfacing your Smartphone - Android

Depending on your model and brand of smartphone HDMI / MHL may not be supported. Check your smartphone documentation for supported features.

Android smartphones will require an app that must be downloaded from Google Play Store. Search for "Jensen HDMI/MHL Connect" in the search bar.

Note: In order to connect your smartphone to your VX7022, you will need an HDMI/MHL adapter for your particular brand of smartphone. In some cases, you may need to connect the additional micro USB port (On the adapter itself) to a power source in order for the HDMI/MHL adapter to function properly.

Smartphone HDMI/MHL adapters are available at your local mobile phone retailer. For example, if you have a Samsung S3/S4 or Note 2, you would buy the below HDMI/MHL adapter:

Samsung ET-H10FAUWESTA Micro USB to HDMI
1080P HDTV Adapter Cable
For Samsung Galaxy S3/S4 and Note 2

Smartphone brands are usually only compatible with the same brand of HDMI / MHL adapter.

Interfacing your Smartphone - iPhone 6® / iPhone 6 Plus® / iPhone 5® / iPhone 5S® / iPhone 5C® / iPod touch® (5th Gen) / iPod nano® (7th Gen)

Note: In order to connect your smartphone to your VX7022, you will need the "Apple Lightning Digital AV Adapter" (HDMI/MHL adapter). No app or software is needed for Apple devices.

Smartphone HDMI/MHL adapters are available at your local mobile phone retailer.

Mirror Mode (HDMI/MHL Adapter Required)

Mirror Mode allows the image from the smartphone to be displayed on the larger head unit TFT. There is no touch screen control from the head unit TFT. You must control the apps from the smartphone.

Mirror Mode w/ Touch Screen Control (HDMI/MHL Adapter Required)

Mirror Mode w/ Touch Screen Control allows the image from the smartphone to be displayed on the larger head unit TFT as well as full touch screen control of the smartphone screen from the head unit.

Note: All apps may not be supported / displayed when connected via HDMI/ MHL.

General

1. Some devices (smartphones) may not be compatible with HDMI/MHL connectivity.
2. Incoming calls or messages may pause media output. Media will resume after the call or message.
3. Simultaneously running multiple apps on your smartphone while screen sharing places heavy demand on the smartphone, potentially affecting its performance. Close unused apps on your smartphone to enhance the screen sharing feature of the VX7022.
4. If you are having trouble seeing your smartphone display on the head unit TFT, try connecting your smartphone (With HDMI/MHL adapter) to another device such as a flat panel TV with HDMI input. If you cannot see the smartphone display on the flat panel TV, the smartphone does not support HDMI/MHL.

Connecting Your Smartphone to the VX7022

1. Jensen HDMI/MHL Connect App Installation Procedure
Download and install the Jensen HDMI/MHL Connect app from Google Play onto your smartphone.

2. Smartphone / Head Unit BT Connection
In order to have full touch screen control from the head unit TFT (via the HDMI/MHL Connect app), a BT connection is required between your smartphone and head unit. Refer to the head unit / smartphone documentation for further information on pairing / connecting devices.

3. Connect Your Smartphone
Most Android smartphones will require an HDMI/MHL adapter in addition to an HDMI cable with 2 Type A male connectors. These adapters are available at smartphone retail stores. See head unit documentation for more information about HDMI/MHL adapters. Connect your smartphone to the HDMI/MHL adapter. Connect one end of the HDMI cable to the HDMI/MHL adapter. Connect the remaining end of the HDMI cable to the Jensen multimedia head unit HDMI input (Rear chassis panel). Consult your smartphone documentation for instructions on how to access HDMI/MHL on your device.

4. Touch Screen Calibration Start
Launch the HDMI/MHL Connect app on your smartphone. Using the head unit touch screen, go to Settings in the HDMI/MHL Connect app. Scroll down slightly, and press the Touch Screen Calibration "Start" button.

5. Touch Screen Calibration
Once the touch screen is calibrated, scroll up, and press System Settings to return to the main HDMI/MHL Connect page. Press Mobile Home Page to access your smartphone from the touch screen of the Jensen multimedia head unit. Touch the Car Home Page to return to the Main Source Menu of the head unit. This calibration is performed once per phone when initially set-up.

BT OPERATION

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 BT wireless technology.

Please make sure your mobile phone supports BT. (Headset or Handsfree profiles or both and A2DP). Adhere to the following guidelines for successful operation.

- Before using BT functions, you must pair your mobile phone to the VX7022 unit (see "Pairing the Your Mobile Phone with the 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 model number, "VX7022", 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 VX7022.
- Before accepting or making a call, make sure your mobile phone's "BT function" is turned on.
- To ensure the best conversation quality/performance, stay within 3 feet (1 meter) of the unit's microphone when talking.
- To manually disconnect the mobile phone from the unit, touch the "Chain Link" icon on the BT user interface (next to the mobile phone name) and the BT device will be "disconnected", but still paired.

BT User Interface

The on-screen icons and information for BT functions are outlined below.

SRC Icon - Touch this icon to return to the Main Menu Screen.

BT - Displays the current source.

LGVX9200 - Indicates the device that is paired with the unit.

( ) - Indicates whether the unit is connected with a BT device. Touch to connect to a BT device.

( ) - Touch to disconnect from a BT device.

V7022 Device Name - Provides the name that will appear on the BT device.

Scan - Touch the icon to search for BT devices

Options - Touch to display the BT Options page.

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

Pairing BT Devices

To connect your BT phone to the unit, the user needs to pair the phone to the unit. Pairing only needs to be done once per phone. **The user can pair up to five (5) phones**. Use your mobile phone to begin the BT pairing process.

1. Touch the MENU on the front panel to access the source menu.
2. Touch the BT icon on the source menu and the BT user interface screen will appear.
3. Touch the Options icon and the following screen will appear.
4. On the Options submenu set the BT function to ON.
5. On the Options submenu set the Auto Connect function to ON.
6. Set the mobile phone BT discover mode to ON.

   Note: Some discovery modes have a time limit, usually a minute, before they are automatically turned OFF.
7. Touch the "Scan" icon on the unit's BT user interface screen. Available devices will appear with the "Pair" icon next to it.

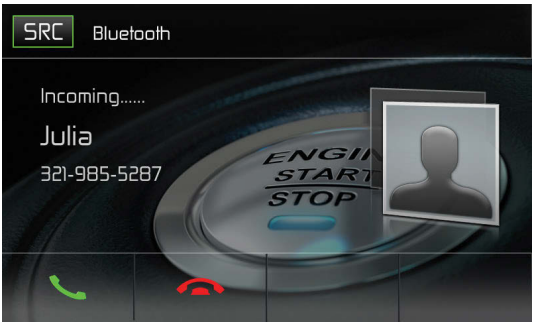
8. Touch the "Pair" icon on the unit's BT user interface screen.
9. A prompt to pair or bond should appear on your mobile phone. Accept the request and initiate the process.
   NOTE: Some mobile phones require a "pass key" or pairing code to connect. If your phone requires a pass key or pairing code, you will need to enter this number. The default pairing code for the VX7022 is "5309".

10. A prompt to enter a PIN number or passkey for the unit should appear. The default passkey for the unit is "5309".

11. At this point a prompt stating pairing successful should appear. Another prompt should appear asking connect to the unit, Yes or NO. Touch Yes. The mobile phone and the unit should connect. The mobile phone should display a message similar to "Device Connected" and the mobile phone and the unit are now connected. VX7022 will appear on the mobile phone list of devices.

Managing Incoming Calls

When connected to a BT mobile phone, the unit will mute audio output, pause CD play, and change to the BTscreen below when a call is received. The incoming phone number or assigned name for that number will appear on the screen. An audible tone will sound from the unit and a graphic display will appear on the front panel.



BT Incoming Call Screen

1. icon: Touch to answer an incoming call.
2. icon: Touch to end an incoming call.

Making an Outgoing Call

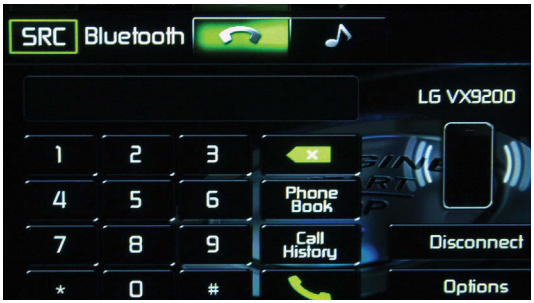
Outgoing calls can be performed in two manners. The outgoing call can be direct dialed using the front panel keypad or the by touching either the Phonebook or Call History icons, selecting a name and touching the phone number.

Phonebook Synch / Importing Contacts / Call History

1. Select BT function (Handset icon) from the BT Home Menu.
2. Press "Option". Go to > "Phone Synch". Press "Synch" to import the mobile phone contacts. If you have many contacts, this may take up to 4-5 minutes initially. **Up to 2000 contacts can be imported.**

Direct Dialing:

1. Press the front panel MENU button and then touch the BT icon to access the BT main menu. The following screen will appear:



BT Direct Dial Screen

2. Use the 0-9, */+, and # icons to input the phone number. If necessary touch the green arrow icon to clear the last digit or the entire number and start over.
3. After entering the phone number, touch the icon to dial the call. The number dialed will be displayed on the screen.
4. To end the call, touch the icon.

Answering an Incoming Call

To answer an incoming call touch the icon. For best reception, speak loudly and clearly into the units microphone. To end the conversation, touch the icon.

Rejecting an Incoming Call

Touch the **Transfer to Phone** icon to reject an incoming call. The call will revert to your mobile phone and be left for voice mail.

Volume Control

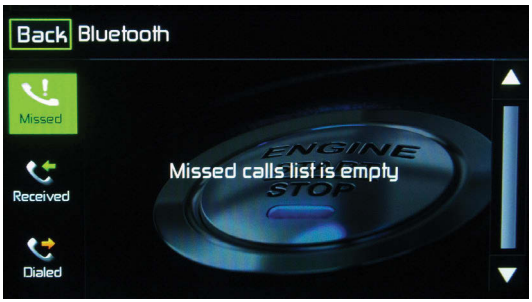
To increase or decrease the volume level of an incoming call, turn the rotary knob on the front panel or press the VOL+/ VOL- icons on the remote control.

Audio Mute

To mute the phone call audio from the unit when a call is received, press the front panel rotary knob. Press the front panel rotary knob again and phone call audio will be restored to the unit.

Call Log

The call log consists of dialed numbers, received calls and missed calls. **Note: Not all mobile phones allow access to missed, received or dialed calls and some will not allow uploading of your mobile phone's address book.**



BT Call Log Screen

Missed Calls - The Missed Calls List retrieves the list of missed numbers from your mobile phone if your mobile phone allows the function. The last missed number is the first number on the list. Touch the Missed Calls menu option to view the list. To make a call from the Missed Calls list, touch the call's name. Touch the phone number and it will be dialed.

Received Calls - The Received Calls list retrieves the received numbers stored on your mobile phone if your mobile phone allows the function. To access the Received list, touch the Received Calls menu option. The last received number is the first number on the list. To make a call from the Received Calls list, touch the name. A new screen will appear with the name on the top and the phone number below. Touch the phone number and it will be dialed.

Dialed Calls - The Dialed Calls list retrieves the list of dialed numbers from your mobile phone if your mobile phone allows the function. The last dialed number is the first number on the list. Touch the Dialed Calls menu option to view the list. To make a call from the Dialed Calls list, touch the name. A new screen will appear with the name on the top and the phone number below. Touch the phone number and it will be dialed.

Call Transfer

While talking, to transfer audio from the unit back to the mobile phone, touch the **Transfer to Phone** icon. You can only transfer a call after it has been answered. Touching the **Transfer to Radio** icon will return the audio from the mobile phone to the unit. Touch the **Transfer Call** icon and the following screen will appear:

Transfer to Phone Screen

Transfer to Radio Screen

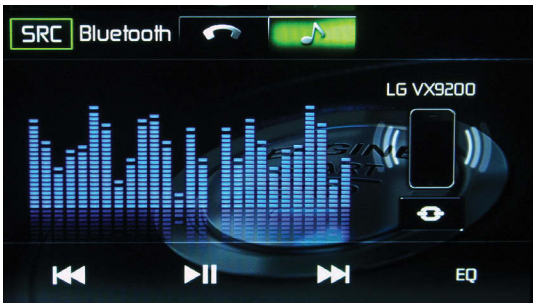
Call Transfer Screens

BT Music Function

BT provides A2DP (Advanced Audio Distribution Profile) profile for streaming music from a mobile phone or a portable multimedia player (PMP), sometimes referred to as a MP3 player. The unit allows you to play back audio files from your mobile phone using a BT connection.

Note: Please quit A2DP mode before attempting to make a phone call, as unexpected results may occur depending on your mobile phone model.

The unit can control a BT audio player via AVRCP (Audio/Video Remote Control Profile). BT audio players compatible with these profiles can be connected to this unit. The following screen is used for streaming music:



BT Audio Control Screen

While listening to audio the following functions are available:

1. Pause/Play (⏯) icon: Touch to pause playback. Touch again to resume playback.
2. Previous (⏮) icon: Touch to play the previous track.
3. Next (⏭) icon: Touch to play the next track.

Functionality varies depending on the profile used:

- A2DP: Stream audio from your BT compatible audio player and listen to the music through the unit.
- AVRCP: Play back, pause, select songs, etc. while streaming audio from your BT compatible audio player to the unit.

Note: Song information (e.g. elapsed playing time, song title, song index, etc.) cannot be displayed on this unit. Since there are a number of BT audio players available on the market, operations with your BT audio player while using this unit may vary greatly. Please refer to the instruction manual that came with your BT audio player.

When there is an incoming call, the song will be paused. After the incoming call is finished, the screen will return to the music function screen and playback will continue.

BT Call While Navigating

When navigating and a BT call comes in, the user interface (UI) will automatically switch to the BT UI. To return to the navigation UI while the call is still in progress, press and hold the **MENU** button. The navigation UI will display and navigation voice prompts will be overidden by the phone call. When the call has ended, navigation voice prompts will return automatically.

Switching Between Sources While Navigating

Press the **MENU** button to go back to the Main Source Menu. This will allow you to select another source (Radio, Disc, AV 1, etc). Press and hold the **MENU** button to switch back and forth between the currently selected source and navigation.

REAR CAMERA OPERATION

This unit is "camera ready." Before accessing any camera features, you must install a rear video camera.

When the camera is not installed and the function is accessed by the gear selector being placed in reverse or by the unit's menu, the message "No Signal!" will be displayed and the following screen will appear.

Rear Camera Screen

When the camera is installed, the rear view image of what is behind the vehicle will appear when the vehicle is placed in reverse gear. When leaving reverse gear, the unit displays the previous screen.

BUILT-IN SWC INTERFACE

The built-in SWC Interface is compatible with PAC / Metra / ADS steering wheel control modules.

A third-party adapter **must** be used in order for the VX7022 to be compatible with any steering wheel controls.

Notes:
Not all OE steering wheel functions may be supported by the VX7022. PTT - Will activate Siri / Google Voice if mobile phone supports the feature. Not compatible with all phones/vehicles.

The following controls are available for most vehicles:

1. Volume Up (+)	4. Seek Up (Next)	7. Preset (+)	10. BT Send
2. Volume Down (-)	5. Seek Down (Prev)	8. Preset (-)	11. BT End
3. Mute	6. Source	9. Band	12. PTT

PANDORA® RADIO OPERATION

Pandora Radio is available on your iPhone® / iPod® touch via USB cable or an Android™ device via BT. Data usage may occur.

Note: Pandora is available in the United States, Australia and New Zealand.

Note: The Pandora Radio app must be installed on your iPhone®/iPod® touch or Android device. For iPod®/ iPhone® connectivity, you can use the cable that comes with your Apple device for audio connectivity. To play Pandora Radio using an Android device, it is necessary to pair your mobile phone via BT to the VX7022. A cable connection for Pandora via Android is not supported.

Pandora Radio

The on-screen indicators and touch key areas for Pandora Radio functions are outlined below.

Pandora Radio User Interface Screen

SRC Icon - Touch this icon to return to the Main Menu Screen.

Pandora - Displays the current source.

Time Display - This indicator displays the time as entered by the user in the Settings Menu.

Pandora Radio Information Display - Displays the Pandora station, artist, song, and album information.

Elapsed Time Indicator - Displays the elapsed and total playing time of the current track playing.

Pandora Preview Window - Displays album art, if available.

More ▲ - Touch to display the bookmark sub-menu.

(■ / ►) Pause / Play Icon - Touch the ⏸ icon to pause playback. Touch the ► icon to begin playback.

(⏭) Next Icon - Press this icon skip a song, subject to the skip limit.

(👍) Thumbs Up - Press thumbs up to tell Pandora® you like the track currently playing, and Pandora will play more tracks like it.

(👎) Thumbs Down - Press thumbs down to tell Pandora not to play this track. Pandora will skip to the next track. If the skip limit has been reached, Pandora will continue to play but your feedback will be recorded.

Station List Icon - Press this icon to access the Station List Screen.

Bookmark Sub-Menu

Pandora Bookmark Sub-Menu

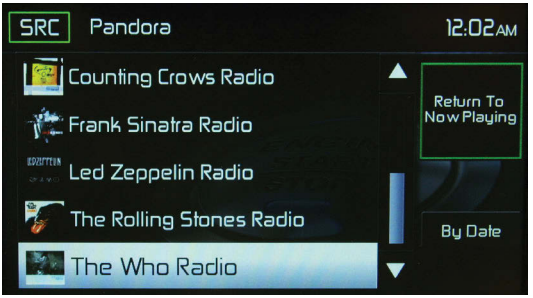
Touch the Bookmark Track icon to bookmark a track.

Touch the Bookmark Artist icon to bookmark an artist.

Touch the More ▼ icon to return to the Pandora Radio user interface screen.

Station List Screen

The Station List Screen allows you to search for music by stations you created.



Pandora® Radio Station List Screen

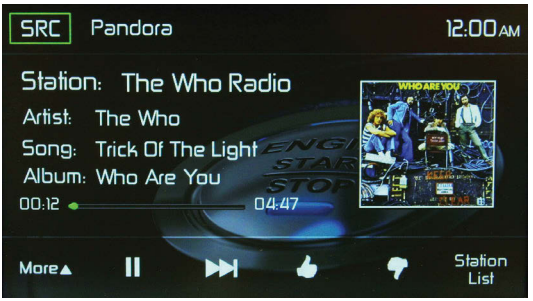
Touch a station on the list to choose that station.

Touch the Scroll Down (▼) icon to view the next page in the list or the Scroll Up (▲) icon to view the previous page.

Touch the Return to Now Playing icon to return to the Pandora Radio user interface screen.

To Launch/Stop Pandora Radio

1. Launch the Pandora app on the iPhone®, iPod® or Android device.
2. Touch the Pandora icon on the main menu screen. If only one device is connected to the radio, the Pandora Radio user interface screen appears.



Pandora Radio User Interface Screen

3. If both an Android and iPhone®/ iPod® device are connected to the radio, the select Android or Apple device screen appears.

Select Android or Apple device screen

4. To stop Pandora,® exit the Pandora app on the iPhone®, iPod® or Android device.

Pandora Error Messages		
Message Displayed	**Cause**	**Corrective Action**
BookMark Track Error	Software Error	The track could not be bookmarked, please try again in a moment.
BookMark Artist Error	Software Error	The song could not be bookmarked, please try again in a moment.
Thumbs Up / Down Error "Error Track Rating"	Software Error	Song feedback could not be sent, please try again in a moment.
No Active Station Error	Software Error	This account has no stations in it. Please visit Pandora.com and login to your account and add stations.
Skip Limit Reached	Software Error	Please note that Pandora limits skips to a maximum of six skips per station, per hour.

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 radio and select SiriusXM 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.

SiriusXM® Menu Page 1

SRC 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.

Signal Strength Indicator - As the strength of the satellite radio signal increases, the number of illuminated segments will increase.

Program Information:
Channel Number - Channel numbers are used to designate the channel along with the channel name and are useful for identifying/loading a channel via the "direct entry" method.
Channel Name - The channel name is used to identify the channel and is usually related to that channel's musical content.
Category Name - A category may contain one or more channels grouped by their similar content into a "Category".
Artist Name - This area displays the name of the artist currently playing.
Song - This area displays the name of the song currently playing.
Info - This area contains additional information related to the song/track now playing.

More ▲ Icon - Touch to go to SiriusXM® Menu Page 2.

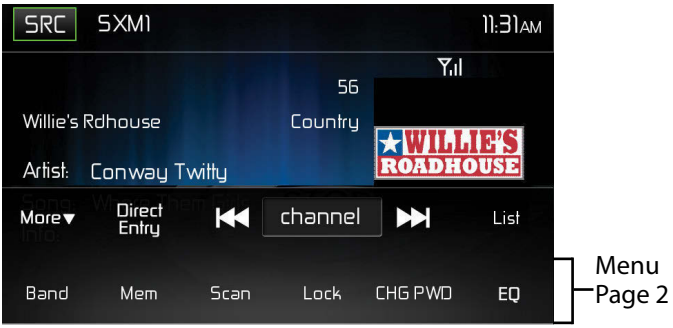
Direct Entry Icon - Touch to display the Direct Entry Menu.

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.

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.



SiriusXM® Menu Page 2

More ▼ Icon - Touch to go to SiriusXM® Menu Page 1.

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.)

Mem Icon - Touch to display screen used to enter current channel into preset memory.

Scan Icon - Touch to scan all channels starting at channel 1. The tuner will pause for approximately fi e 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.

Lock Icon - Touch to display the SXM Lock Screen.

CHG PWD Icon - Touch to go to the change password screen.

EQ Icon - Touch to access the Equalizer level settings menu.

Switching to SiriusXM® Radio

- Touch the top left corner of the screen (the **SRC** box) to view the Main Menu screen. From the Main menu screen, touch the **SiriusXM** icon.
- Press the **MENU** button on the front panel to switch to the SXM source.

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 1, touch the **Direct Entry** icon to display the Direct Entry Menu.

SXM Direct Entry Screen

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

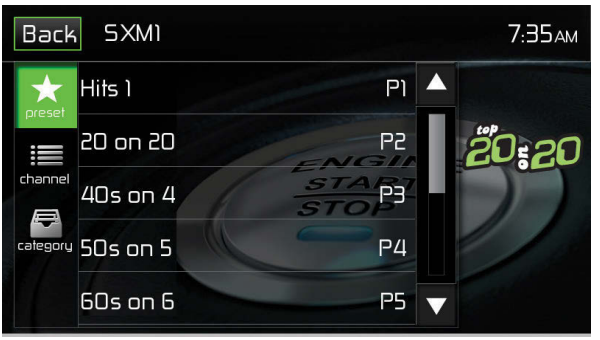
1. Select a band (if needed), then select a channel.
2. On the SiriusXM® menu page 2, touch the **Mem** icon to access the Preset Channel Screen.

SXM 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.



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

To 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:

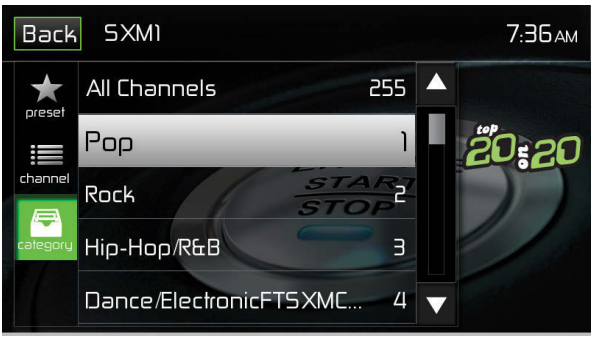
Channel Search Screen

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:



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. The following screen appears:

Enter Lock Password Screen

2. Enter your 4-digit password and then press the **OK** icon. The following screen appears:

Lock Screen

3. Touch the **Lock Mature** icon. The mature channels are now locked.

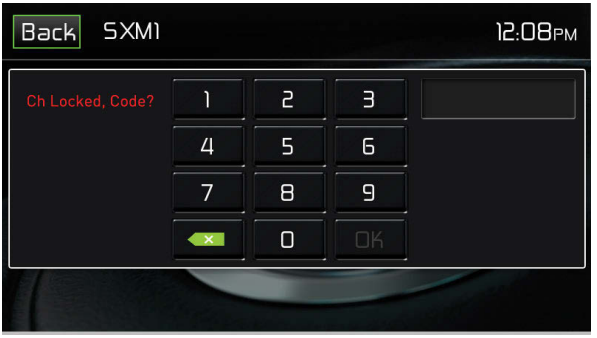
Temporarily Unlock a Mature Channel

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.



Channel Locked 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. The following screen appears:

Enter Lock Password Screen

3. Enter your 4-digit password and then press the **Ok** icon. The following screen appears:

4. 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:

Enter Lock Password Screen

2. Enter your 4-digit password and then press the **OK** icon. The following screen appears:

Lock Screen

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. The following screen appears:

Unlock Screen

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. The following screen appears:

Change Password Screen

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 is set.

SiriusXM® Radio Advisory Messages

SiriusXM® user advisory messages are listed below:

Advisory Displayed	Cause
Check SXM Tuner	Check the SiriusXM® tuner connection on the back of the unit to ensure that it's correctly connected.
Check SXM Antenna	Ensure the SiriusXM® antenna cable is connected to the SiriusXM® tuner correctly. Check the SiriusXM® antenna wire for breaks or sharp bends. Replace the antenna if necessary. If the message remains, the antenna may have been damaged.
No SXM Signal	The vehicle must be outside, and the antenna must have a clear view of the southern sky. The magnetic antenna must be mounted on the outside of the vehicle for the best reception.
Channel Not Subscribed	This channel is not included in your SiriusXM® subscription plan. Call 1-866-635-2349 to subscribe.
Channel Not Available	This channel is not a valid SiriusXM® channel. The channel number has been entered incorrectly, or the channel was removed from the SiriusXM® channel lineup.
Channel Locked	The selected channel has been locked by the parental controls, or a mature channel has been selected. A prompt to enter the unlock code will appear. Enter the unlock code.

User Up-Loadable Wallpaper

In addition to the 5 selectable wallpaper selections, you can up load your own wallpaper image to the VX7022.

Note: The wallpaper image must have a .bmp file extension and the size / resolution must be 800x480, 24 or 32 bit. Other file sizes / resolutions will result in the image being enlarged or reduced and may appear distorted.

Uploading User Wallpaper

Only one user wallpaper can be loaded at a time into the VX7022. However, the user wallpaper can be loaded an infinite amount of times.

1. Take out and set aside the navigation MicroSD card that came in the VX7022. Do not delete or modify the folder structure. Insert a MicroSD card with wallpaper images into the MicroSd card slot.

2. Go to Settings > General > Wallpaper > Custom.

3. Select a wallpaper image and press "OK" to load the new wallpaper image.

4. Remove MicroSD card.

TROUBLESHOOTING

Troubleshooting

Problem	Cause	Corrective Action
GENERAL		
Unit will not power on	Radio Fuse open	Install new fuse with correct rating
	Car battery fuse open	Install new fuse with correct rating
	Illegal operation	Press the RESET button located in the middle of the left side of the front panel
No/low audio output	Improper audio output connection	Check wiring and correct
	Volume set too low	Increase volume level
	Improper "MUTE" connection	Review wiring diagram and check "MUTE" connection
	Speakers damaged	Replace speakers
	Heavily biased volume balance	Adjust the channel balance to the 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 copy
	Speaker power rating not compatible with unit	Connect proper speakers
	Speaker is shorted	Check speaker contact
Unit resets itself when engine is off	Incorrect connection between ACC and positive battery wire	Check wiring and correct

Problem	Cause	Corrective Action
TFT Monitor		
No image	Incorrect connection to parking brake wire	Check wiring and correct
	Parking brake is not engage	Stop vehicle in safe place and apply parking brake
Flashing image or interference appears on screen	DVD is not compatible with current TV system settings	Change setup to accommodate disc
	Improper video signal connections	Check wiring and correct
Prolonged image or improper height/ width ratio display	Improper aspect ratio setup	Use correct aspect ratio setting
TUNER		
Weak station searching	Auto antenna is not fully extended	Extend antenna fully or connect the auto antenna control cable properly
	Auto antenna not properly connected	Connect the auto antenna control cable properly
	LOCAL function is activated	Turn LOCAL function off
DISC		
Cannot insert disc	Disc already inside unit	Eject current disc and insert new one
Image blurred, distorted or dark	Disc is illegally copied	Use original disc

Problem	Cause	Corrective Action
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
	Laser pickup is dirty	Clean laser pickup with cleaning disc
	Incompatible disc is used	Use compatible disc
	Disc rating exceeds Parental Lock rating limit	Change Parental Lock settings to lower restriction
	Disc region code is not compatible with unit	Use disc with proper region code
	Disc is inserted upside down	Insert disc with label side up
MP3		
Interruption occurred during playback	Disc is dirty or scratched	Clean disc or replace
	File is damaged/bad recording	Recreate disc with good file

Disc Error Messages

Message Displayed	Cause	Corrective Action
Loading	Disc is being read	
No Disc	Disc is dirty	Clean disc with soft cloth
	Disc is upside down	Insert disc with label side up
	Disc not present in loading compartment	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	
Region Error	DVD is not compatible with region code of unit	
Error	Illegal mechanism operation	Press EJECT button for 5 seconds to reset loading mechanism

CARE AND MAINTENANCE

1. Use only a clean silicone cloth and neutral detergent to clean the front panel or monitor. A rough cloth and non-neutral detergent (such as alcohol) may result in scratching or discoloration.
2. Do not get water or cleaning fluids on the unit.
3. If the temperature inside the player gets too hot, a protective circuit automatically stops play of the disc. If this occurs, allow the unit to cool before operating the player again.
4. Never insert anything other than a 12 cm (5") compact disc into the player as the mechanism can be damaged by foreign objects.
5. Do not attempt to use a 8 cm (3") CD-Single disc in this unit, either with or without an adapter, as damage to the player and/or disc may occur. Such damage is not covered by the Warranty on this product.
6. The CD player may not operate properly in extreme hot or cold. If such conditions occur, allow the interior of the vehicle to reach a normal temperature before using player.
7. When the vehicle warms up during cold weather or under damp conditions, condensation may appear on the LCD panel. Should this occur, the screen will not operate properly until the moisture has evaporated.
8. We suggest you use a cleaning disc in this unit more frequently than in the unit in your home due to the environmental conditions of the vehicle.

SPECIFICATIONS

DVD/CD Player

Compatible Disc Media: DVD ± R / RW (Single and Dual Layer) and CD-R / RW
Compatible Media Formats: CD-DA, MP3, WMA, VCD, SVCD, Xvid, AVI, MPEG 1/2 and AAC
Signal to Noise Ratio: >95dBA
Dynamic Range: >95dB
Frequency Response: 20Hz to 20 kHz, -3dB
Channel Separation: > 60dB @ 1 kHz
D/A Converter: High Performance Multi-Bit Sigma-Delta Modulator

Video

Format: NTSC, PAL (auto-detection)
Output: 1Vp-p (75-ohm)
Input: 1Vp-p (75-ohm)

FM Tuner

Tuning Range: 87.5MHz - 107.9MHz
Mono Sensitivity (-30dB): 9dBf
Quieting Sensitivity (-50dB): 15dBf
Alternate Channel Selectivity: 70dB
Signal to Noise Ratio @ 1 kHz: 58dB
Image Rejection: 80dB
Stereo Separation @ 1 kHz: >30dB
Frequency Response: 30Hz - 15 kHz, -3db

AM Tuner

Tuning Range: 530 kHz - 1720 kHz
Sensitivity (-20dB): 15uV
Signal to Noise Ratio @ 1 kHz: 50dB
Image Rejection: 60dB
Frequency Response: 50Hz - 2 kHz, -3dB

Monitor

Screen Size: 6.2" (Measured diagonally), 16:9 Widescreen
Screen Type: TFT LCD
Resolution: 800h x 480v x RGB WVGA

VX7022

General

Auxiliary (Audio) Input Impedance: 10k -Ohm
Power Supply: 11 to 16VDC, negative ground
Power Antenna / Amp Remote (Blue): 500mA max (Current limited protection)
Operating Temperature: 0C ~ 65C / 32F ~ 149F
Fuse: 15-Amp, ATO type
Chassis Dimensions: 7" X 7" X 4" (178mm x 178mm x 100mm)

CEA Power Ratings

Power Output: 13 Watts RMS x 4 channels into 4-Ohms @ < 1% THD+N
Signal to Noise Ratio: 70dBA below reference (Reference: 1 Watt, 4-Ohms)
Frequency Response: 20 Hz - 20 kHz, -3dB. (Aux Input used as reference input)
Reference Supply Voltage: 14.4VDC

*Specifications are subject to change without notice.

NOTES:

VX7022

Voxx Electronics Corporation
Hauppauge, NY 11788
Technical Assistance: 800-323-4815
www.jensenmobile.com
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Printed in China

VX7022 Common Replacement Parts

Wire Harness (Pwr/Spk/Line Out/ BT Mic / GPS Antenna)	30314240
Trim Ring	30413950
Remote Control	30714230
Hardware Bag	30513950

Operation manuals and other material online at: www.jensenmobile.com

JENSEN®

VX7022/VX4022/DMX5022

Installation / Quick Start Guide

Operation Manuals are Online at www.jensenmobile.com

Note: There is no operation manual in this package

What's in the Box The following items are supplied with the VX7022/VX4022/DMX5022:

- Head Unit
- GPS Antenna (VX7022 Only)
- Trim Ring
- Hardware Bag
- Power/Speaker Output Harness
- Remote Control
- External Microphone
- Installation / Quick Start Guide

Tools and Supplies The following tools and supplie are needed to install the head unit:

- Torx type, flat-head and Philips screwdrivers
- Wire cutters and strippers
- Tools to remove existing radio (screw driver, socket wrench set or other tools)
- Electrical tape
- Crimping tool
- Volt meter/test light
- Crimp connections
- 18 gauge wire for power connections
- 16 – 18 gauge speaker wire

WARNING! Never install this unit where operation and viewing could interfere with safe driving conditions.

Steering Wheel Control (SWC) Ready

The recommended SWC Interface is the PAC SWI-RC steering wheel control adapter.

SWI-RC installation hints:

1. Set "Radio Select Switch". Set the SWI-RC to position 7 - "Pioneer/Sony/Other".
2. Programming - Use the Pioneer/Sony/Other radio function mapping order for Jensen branded head units.
3. When programming the SWI-RC, if a function is not supported (or not desired), then the function **MUST** be skipped as per the PAC SWI-RC instructions.
4. The SWC functions **MUST** also be programmed in the correct order per the PAC SWI-RC radio function mapping order instructions.

Disconnect the Battery

- To prevent a short circuit, be sure to turn off the ignition and remove the negative (-) battery cable prior to installation. **NOTE: If the head unit is to be installed in a car equipped with an on-board drive or navigation computer, do not disconnect the battery cable. If the cable is disconnected, the computer memory may be lost. Under these conditions, use extra caution during installation to avoid causing a short circuit.**

Replacing the Fuse

- When replacing the vehicles Radio fuse always use the proper rated replacement fuse. Using a fuse with an improper rating could damage the unit and cause a fire.

ISO-DIN Installation

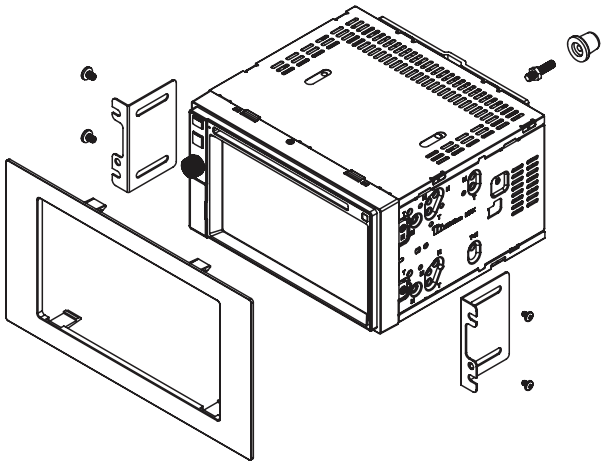
The head unit is designed to fit into a 2.0 DIN dashboard opening. The unit has threaded holes in the chassis side panels which may be used with the original factory mounting brackets of some Toyota, Nissan, Mitsubishi, Isuzu, Hyundai and Honda vehicles to mount the radio to the dashboard. Please consult with your local car stereo specialty shop for assistance on this type of installation.

1. Remove the existing factory radio from the dashboard or center console mounting. Save all hardware and brackets as they will be used to mount the new radio.

2. Remove the factory mounting brackets and hardware from the existing radio and attach them to the new radio.
   CAUTION! Do not exceed M5 X 6MM screw size. Longer screws may damage components inside the chassis.

3. Place the radio in front of the dashboard opening so the wiring can be brought through the mounting sleeve. Follow the wiring diagram carefully and make certain all connections are secure and insulated with wire nuts or electrical tape. After completing the wiring connections, plug the connector into the mating socket on the rear of the chassis. Turn the unit on to confirm operation (vehicle ignition switch must be "ON"). If the unit does not operate, re-check all wiring until the problem is corrected.

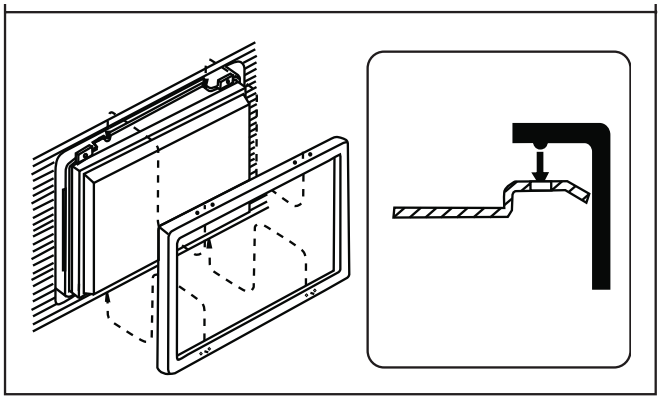
4. Mount the new radio assembly to the dashboard or center console using the reverse procedure in step 1 above.
   CAUTION! Be careful not to damage the car wiring.



NOTE: It is the end-users responsibility to install and operate this unit in a manner in accordance with local, state and federal laws. The PARKING BRAKE wire MUST BE CONNECTED as directed in the manual.

Using the Cosmetic Trim Ring

A cosmetic trim ring is supplied with the head unit for installation flexibility. This unit will fit into most import dashes with little or no modification to the dash board/cavity. Some US domestic vehicle dashes will accept a Double-DIN chassis, but there is usually a small gap between the radio and dash piece after installation is complete. In this case, use the trim ring to conceal any gaps that may be present.



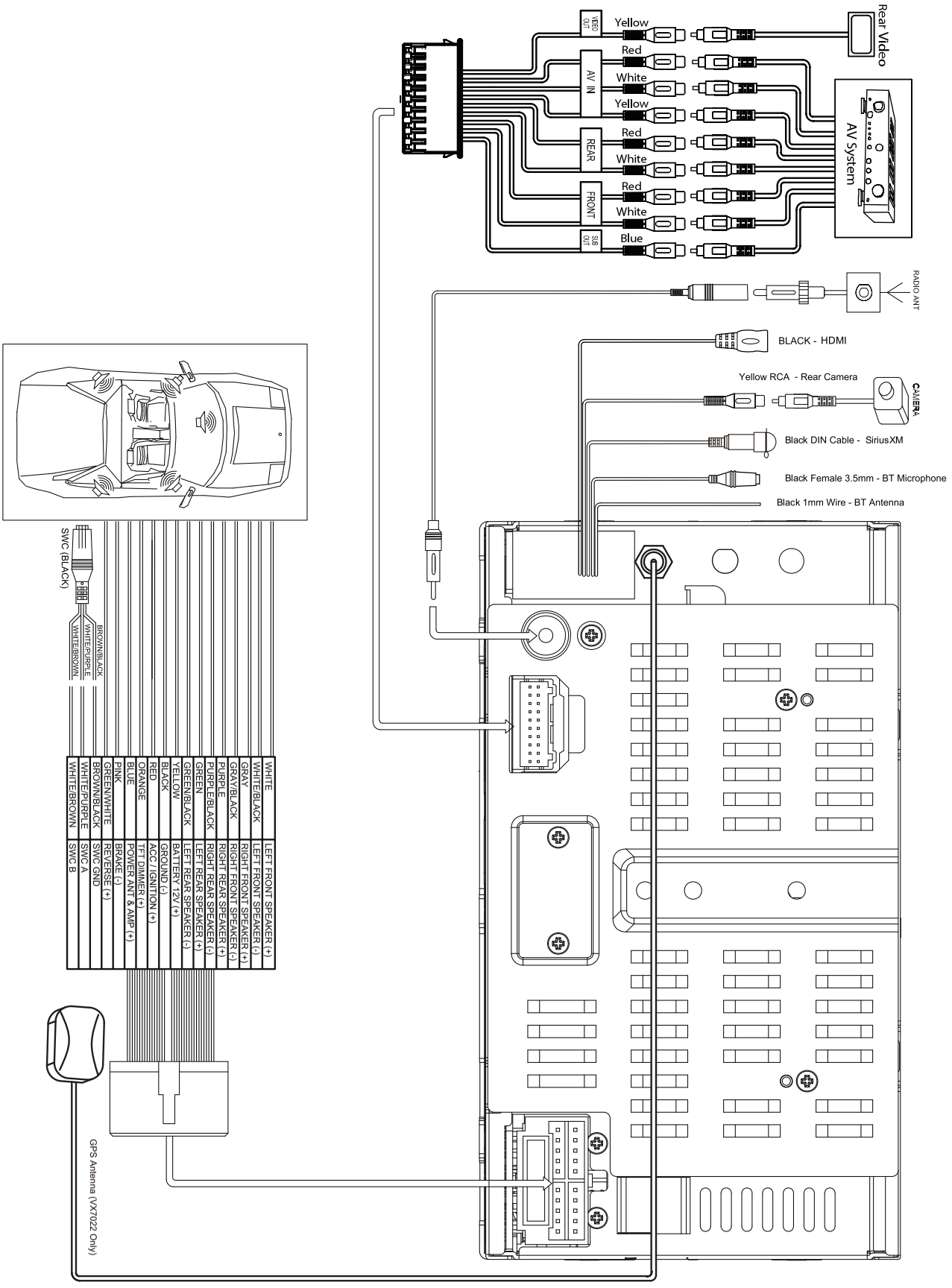
NOTE: For proper operation of the CD/DVD player, the chassis must be mounted within 30° of horizontal. Make sure the unit is mounted within this limitation.

Wiring Diagram

CAUTION! IMPORTANT: Incorrect wiring connections can damage the unit. Follow the wiring instructions carefully, or have the installation handled by an experienced technician.

Need Help? For technical assistance, call the Jensen customer support line at 1-800-323-4815.

Some vehicles may not support all SWC functions. Professional Installation is recommended.



QUICK START GUIDE

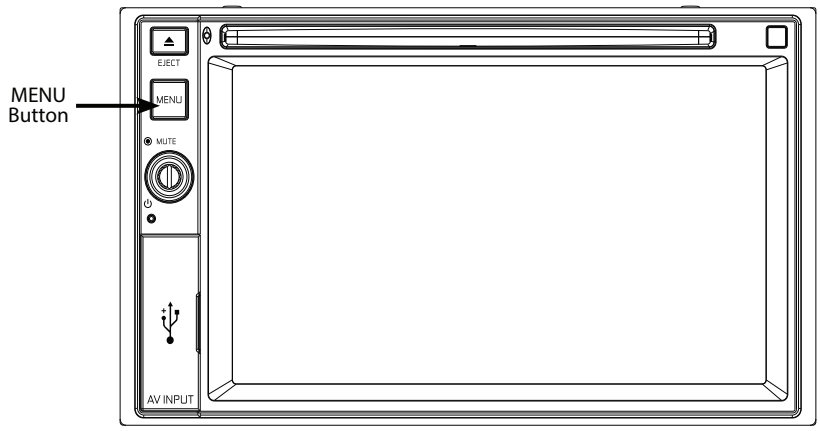
Turning the Unit ON or OFF

Press the front panel volume knob to turn the unit ON. Press and hold the volume knob > 1 second to turn the unit OFF.

Selecting an Audio/Video Source, Phone, Steering Wheel Controls, Backup Camera or Pandora

To select a source:

1. Press the front panel MENU button or touch the SRC icon to view the Main Source Menu



2. Touch the desired source icon on one of the two main menu screens. Screen 1 of 2: Disc, Radio, USB, AV-IN1, Settings, Phone or Camera. Touch Next at the bottom of the screen to access Screen 2 of 2: Steering Wheel Controls (SWC), AV-IN2, Pandora or SiriusXM (SXM).

Volume Adjustment / Turn On Volume

To increase or decrease the volume level, rotate the rotary encoder knob. The unit's front panel screen will display the volume level for 2 seconds. The volume level ranges from 0 to 50. To set the Turn-On volume, press and hold the rotary encoder knob 1 second while the green volume bar is displayed after setting the desired volume level. You will hear 2 beeps to confirm the new Turn-On volume level.

Audible Beep Confirmation

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

Muting the Audio

Press the front panel volume knob (◉) to mute the audio from the unit. Mute icon is displayed on the LCD screen. Press the front panel volume knob again to restore the audio volume to its previous level. Adjusting the volume or using any of the audio setup features cancels the mute function.

Equalizer Controls

Equalizer (**EQ)**: Adjustment can be made after entering one of the audio/video sources (Disc, Radio, USB, AV-IN or SXM). Touch the Equalizer (**EQ)** icon to view the Equalizer Control Screen to select a desired preset setting (Optimal, Classic, Rock, Jazz, Techno or Pop), Flat setting, custom User setting, make adjustments to the audio Balance and Fader levels or to turn the Loudness option ON or OFF. Touch the SRC icon to return to the current source.

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Hauppauge, NY 11788

Technical Assistance: 800-323-4815
www.jensenmobile.com © 2015 Printed in China

VX7012 / VX7022

Navigation Manual

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1 Warnings and safety information

The navigation system helps you find your way to your destination with the built-in GPS receiver. The navigation system does not transmit your GPS position; others cannot track you.

It is important to look at the display only when it is safe to do so. If you are the driver of the vehicle, we recommend that you plan and review your route before you start your journey. Plan the route before your departure and stop if you need to change the route.

2 Getting started

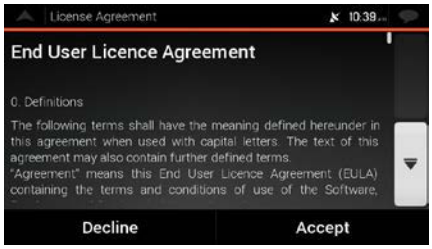
iGo Primo Next Gen is optimized for in-car use. You can use it easily by tapping the screen buttons and the map with your fingertips.

2.1 Initial set-up

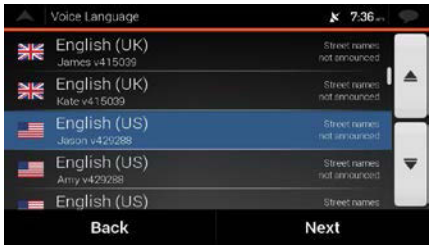
When using the navigation software for the first time, an initial set-up process starts automatically.

1. Select your preferred language, then tap Select to confirm your selection. Later you can change it in Regional settings (page 84).

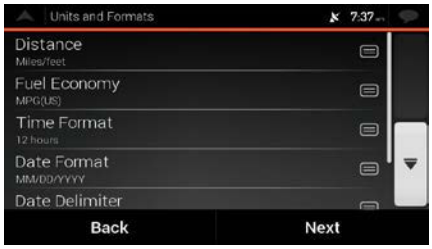
2. Read the end-user license agreement, and tap Accept if you agree with the terms of use.



3. The Configuration Wizard starts. Tap Next to continue.
4. Select the language and speaker used for voice guidance messages. Later you can change it in Regional settings (page 78). Tap Next to continue.

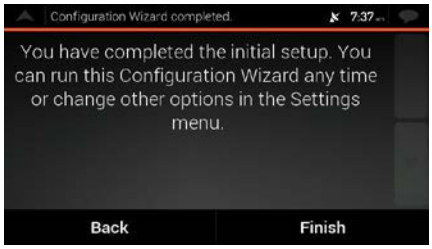


5. If needed, modify the time format and unit settings. Later you can change them in Regional settings (page 84). Tap Next to continue.



6. If needed, modify the default route planning options. Later you can change them in Route Preferences (page 74). Tap Next to continue.

7. The initial set-up is now complete, tap Finish to enter the Navigation view.



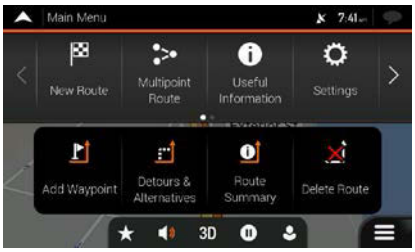
2.2 Screen controls

The following sections describe the functionality and use of buttons, sliders, and other screen controls.

2.2.1 Using the buttons and other controls

To operate, tap the buttons on the touch screen.

The Navigation menu may contain several menu items on one or more pages. To open the other pages, tap the arrows on the side of the screen.



The Navigation menu may contain several menu items on one or more pages. To access the other menu items, grab the list anywhere and slide your finger up or down.

You need to confirm selections or changes only if the application needs to be restarted, if it needs to perform a major reconfiguration, or if you are about to lose some of your data or settings. Otherwise, the navigation system saves your selections and applies the new settings without confirmation as soon as you use the controls.

2.2.2 Using the cursor

You can select a map location in the following ways:

- By tapping the map when navigating
- By tapping the map when you are asked to confirm the destination at the end of a search.

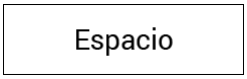
When a map location is selected, the cursor ( ) appears at the selected point on the map.

The location of the cursor can be used as the destination of the route or a new Alert Point. You can also search for Places around it or add this location to your saved locations.

You can also select some of the objects on the map. If you tap the map at the icon of a Place or traffic event, the object is selected, and you can get information about this object or use it as a route point.

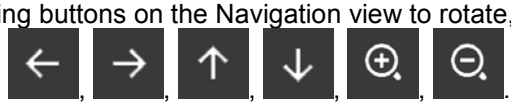
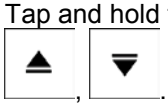
2.2.3 Using the keyboard

You can type with your fingertips on the screen keyboards and you can switch between various keyboard layouts, for example English, Greek or numerical. Only those keyboard buttons are active that can be used to type a name that is available on the map. The other keys are grayed out.

Action	Function
Switching to another keyboard layout, for example from an English keyboard to a Greek keyboard	Tap and select the new keyboard layout from the list.
Correcting your entry on the keyboard	Tap to remove the unnecessary character(s). Tap and hold the button to delete several characters or the entire input string.
Entering a space, for example between a first name and a family name or in multi-word street names	Tap the  button at the bottom center of the screen.
Entering upper and lower case letters	By default, when entering a text, the first character appears in upper case while the rest of the text is in lower case. Tap to enter an upper case letter or tap it twice to turn on Caps Lock. Tap again to use lower case letters.
Entering numbers and symbols	Tap to switch to a keyboard offering numbers and symbols.
Finalizing the keyboard entry	Tap .
Starting a search for a keyboard entry	Tap .
Hiding the keyboard	Tap .

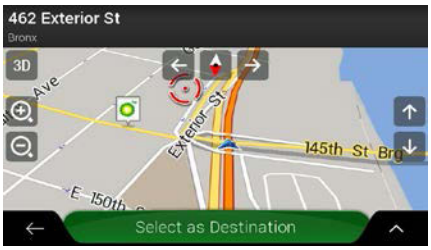
2.2.4 Using touch gestures

You usually need to tap the screen only once. However, some useful features can be accessed with other gestures. See the table below.

Action	Function
Tapping and holding the screen	Tap and keep pressing the following buttons to reach extra functions: • Tap and hold the following button on list and menu screens to show the Navigation view: . • Tap and hold any of the following buttons on the Navigation view to rotate, tilt, or scale the map continuously:  . • Tap and hold the following button on keyboard screens to quickly delete several characters: . • Tap and hold the following buttons in long lists to scroll pages continuously:  .
Dragging	Drag the screen in the following cases: • To move the handle on a slider. • To scroll a list: grab the list anywhere and slide your finger up or down. Depending on the speed of the sliding, the list scrolls faster or slower, only a bit or till the end. • To move the map in map browsing mode: grab the map, and move it in the desired direction.
Using pinch zoom	Use pinch zoom on the Navigation view to zoom in and out by moving two fingers in a pinch gesture.

2.2.5 Manipulating the map

If you tap the map anywhere during navigation, the map stops following the current position (the blue arrow is not locked in a fix position on the screen anymore) and control buttons appear to help you modify the map view.



You can perform the following actions on the map:

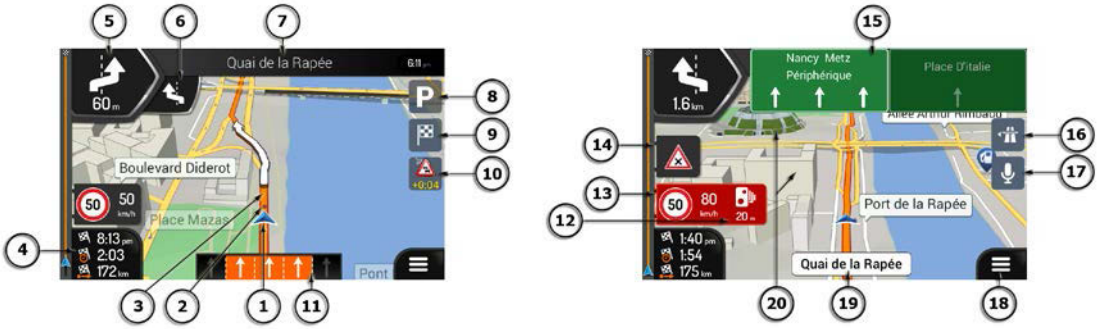
Action	Button(s)	Function
Checking location information	No buttons	The top section of the Navigation view shows information about the selected point (the cursor).
Moving the map by dragging	No buttons	Move the map in any direction: tap and hold the map and move your finger towards the direction you want to move the map.
Zooming in and out	,	Change how much of the map is displayed on the screen. The navigation system uses maps that let you examine the locations at various zoom levels, always with optimized content. It always displays street names and other text with the same font size, never upside-down, and you only see the streets and objects that you need. Map scaling has a limit in 3D map view mode. If you zoom out further, the map switches to 2D view mode. Tap once to modify the view in a large step, or tap and hold the button to modify it continuously and smoothly.
Tilting up and down	,	Change the vertical view angle of the map in 3D mode. Tap once to modify the view in a large step, or tap and hold the button to modify it continuously and smoothly.
Rotating left and right	,	Changes the horizontal view angle of the map. Tap once to modify the view in a large step, or tap and hold the button to modify it continuously and smoothly.

Changing 2D, 3D, or 2D North up views		Switch between the 3D perspective, 2D Heading up, and 2D North up map view modes. In Heading up mode the map is rotated so its top always points in the current driving direction. This is the default orientation in 3D map view mode. In North up mode, the map faces North.
Checking the compass		The direction of the compass shows North.
Returning to normal navigation		Move the map back to follow the current GPS position. Automatic map rotation is also re-enabled. The map manipulation buttons disappear and the navigation continues.
Selecting additional options		Open a list of additional features like saving a location, or searching for Places around the cursor.
Selecting a destination		Select the cursor location as a new destination. The route is automatically calculated.

2.3 Navigation view

The Navigation View is the main screen that shows the planned route on a map. The navigation system works with digital maps which are not simply the computerized versions of traditional paper maps. Similarly to paper road maps, the 2D mode of digital maps shows you streets and roads. Elevation is also illustrated in color.

The navigation view displays the following screen buttons, data fields, and route information on the map during navigation:



Note! Some buttons, fields, or icons may not be available in your product version.

Number	Name	Description
1	**Current position marker**	The current position is displayed as a blue arrow by default. When there is no GPS position, the current position marker is transparent and it shows your last known position. See page 14.
2	**GPS position**	The dot near the arrow shows the GPS position as perceived by the GPS receiver. See page 14.
3	**Planned route**	The planned route is displayed as an orange line.
4	**Data fields**	Three data fields show the following information: • The estimated time of the arrival at the destination • The remaining time of the trip • The remaining distance to the destination. By tapping it, you can access additional information about the current trip on a dashboard screen and in the Trip Summary. You can change the default values in Settings (page 81) or by tapping and holding the area where the data fields appear. If you have not selected a destination, you can see your heading instead of the three data fields.
5	**Next turn preview**	It shows the type of the next maneuver and its distance. See page 16.
6	**Second next turn preview**	It shows the type of the second next maneuver if it is near the first one. See page 16.
7	**Next street**	It displays the name of the next street. See page 16. If you have not selected a route destination, you can see nearby house numbers.
8	**Parking around destination**	It appears near the destination. By tapping it, you can check the available parking facilities around your destination. See page 69.
9	**Destination menu**	It appears near the destination. By tapping it, you can check the trip summary, find Places around your final destination, save the current location, switch to pedestrian navigationor suspend the navigation.
11	**Lane information**	On multi-lane roads, it shows the lanes ahead and their directions. The highlighted arrows represent the lanes and direction you need to take. See page 17.
12	**Alert point warning**	It shows the type of the alert points when approaching a road safety camera or other Alert Points like school zones or railroad crossings. You must make sure that using this feature is legal in the country where you intend to use it. See page 80.
13	**Speed limit warning**	It shows the current speed limit of the road. See page 80.
14	**Warning road sign**	It shows warning for the current road (for example, dangers, sharp curves). See page 80.

15	**Signpost**	It show the available destinations and the road numbers. See page 17.
16	**Freeway services**	By tapping it, you can check the details of the next few service stations (gas stations, restaurants) when traveling on a freeway. See page 19.
18	**Navigation menu**	By tapping it, you can open the Navigation menu, where you can reach other parts of .
19	**Street name**	It shows the current street name. By tapping it, you can open the Where Am I screen. See page 71.
20	**3D objects**	They display hills, mountains, roads, landmarks, and buildings in 3D.

If you are approaching a freeway exit or a complex intersection and the needed information exists, the map is replaced with a 3D view of the junction. See page 18.

When entering a tunnel, the map is replaced with a generic tunnel image. See page 18.

2.3.1 Streets and roads

The navigation system shows the streets similarly to paper road maps. Their width and colors correspond to their importance; you can easily tell a freeway from a small street.

2.3.2 GPS position markers

When your GPS position is available, the navigation system marks your current position. By default, this marker is a blue arrow. The dot near the arrow shows the GPS position as perceived by the GPS receiver.

The exact location of the current position marker depends on the vehicle type used for route calculation and the navigation mode. Both can be set in Route preferences (page 74).

- If you choose pedestrian and/or off-road navigation, the position marker is at your exact GPS position. The direction of the icon shows your current heading.

- In all other cases, the position marker may not show your exact GPS position and heading. If roads are near, the GPS position is locked on the road and aligned to the nearest road to suppress GPS position errors, and the direction of the icon is aligned to the direction of the road.

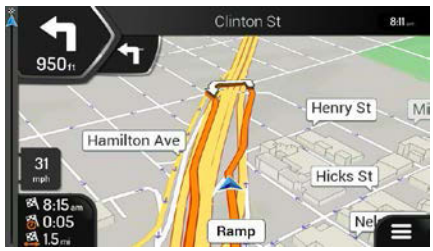
2.3.3 The planned route

The planned route is the currently navigated route. Whenever the destination is set, the route is active until you delete it, reach your destination or suspend navigation. The navigation system displays the route in the following ways:

Symbol	Name	Description
	Current GPS position and starting point	It is your current position displayed on the map. • In pedestrian mode it is the GPS position. • If a vehicle is selected for route calculation and roads are near, the arrow jumps to the nearest road. • The dot near the arrow shows the exact GPS position. Normally, if GPS position is available, the route starts from the current position. If there is no valid GPS position, the navigation system uses the last known position as the starting point.
	Waypoint (intermediate destination)	It is an intermediate destination of the route before reaching the final destination.
	Destination (end point)	It is the final destination of the route.
	Route color	The route always stands out with its color on the map, both in daytime and night color modes.
	Streets and roads that are excluded from the navigation	You can choose whether you want to use or avoid certain road types (page 74). However, when the navigation system cannot avoid such roads, the route includes them and shows them in a color that is different from the route color.

2.3.4 Turn preview and next street

When navigating a route, the top section of the Navigation view shows information about the next route event (maneuver) and the next street or the next town.



There is a field in the top left corner displaying the next maneuver. Both the type of the maneuver (turn, traffic circle, exiting freeway, and so on) and its distance from the current position are displayed.

A smaller icon shows the type of the second next maneuver if it is near the first one. Otherwise, only the next maneuver is displayed. Tap the icon of the actual maneuver to open the Itinerary screen.

2.3.5 Maneuver icons

During navigation the next maneuver is displayed in the top left corner. Most of the maneuver icons are intuitive. The following table lists some of the frequently shown route events:

Icon	Function
	Turn left.
	Turn right.
	Turn back.
	Bear right.
	Turn sharp left.
	Keep left.
	Continue straight in the intersection.
	Enter the traffic circle and take the first exit (next maneuver).

	Enter the traffic circle (second next maneuver).
	Enter the freeway.
	Exit the freeway.
	Board the ferry.
	Leave the ferry.
	Approaching a waypoint on the right.
	Approaching the destination.

2.3.6 Lane information and signposts

When navigating on multi-lane roads, it is important to take the appropriate lane in order to follow the planned route. If lane information is available in the map data, the navigation system displays the lanes and their directions using small arrows at the bottom of the map. Highlighted arrows represent the lanes and the direction you need to take.

Where additional information is available, arrows are replaced by signposts. Signposts are displayed at the top of the map. The color and style of the signposts are similar to the real ones you can see above roads or by roadsides. They show the available destinations and the road numbers.

All signposts look similar when cruising (when there is no planned route). During navigation only the signpost that points to the lane(s) to be taken is highlighted; all the others are darker.

If you want to hide the currently displayed signposts, tap any of them and the normal Navigation view returns until new signpost information is received.

You can modify the signpost settings in

(page 81).

2.3.7 Junction view (Not Supported on VX7012/VX7022)

If you are approaching a freeway exit or a complex intersection and the needed information exists, the map is replaced with a 3D view of the junction. The lanes you need to take are displayed with arrows. At the top of the screen, road signs show you additional information.

If you want to hide the currently displayed junction and return to the Navigation view, tap the picture.

Junction view can be turned off in

. See page 81.

2.3.8 Tunnel view

When entering a tunnel, the map is replaced with a generic tunnel image so that surface roads and buildings cannot distract you.

The top-down overview of the tunnel displayed in a separate window helps you orient yourself. The remaining distance in the tunnel is also displayed.

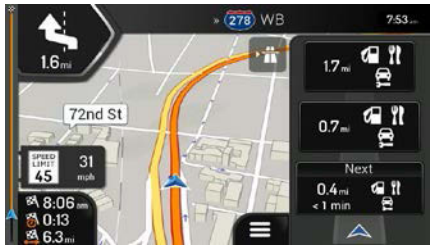
After leaving the tunnel, the original map view returns.

Tunnel view can be turned off in

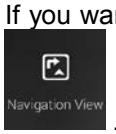
. See page 81.

2.3.9 Freeway services

When you are driving on a freeway, the button appears at the top right corner of the Navigation view. Tap it to open a panel with the details of the next few service stations (gas stations, restaurants).



Tap any of them to display the exit area on the map. You can now easily add this service station as a waypoint to your route if necessary.

If you want to display other types of Places at the next few service stations, you can change the icons in 

. See page 81.

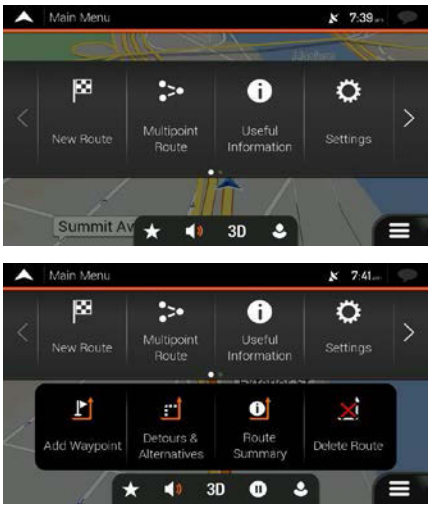
2.3.10 3D object types (Not Supported on VX7012/VX7022)

iGo Primo Next Gen 3D object types:

Type	Description
3D terrain	Displays 3D hills and mountains in the Navigation view, and illustrates them by coloring and shading on the 2D map.
Elevated roads	Elevated roads are complex intersections and vertically isolated roads (such as overpasses or bridges) displayed in 3D.
3D landmarks	Landmarks are 3D representations of prominent or well-known objects.
3D buildings	3D buildings are block representations of full town building data containing actual building sizes and positions on the map.

2.4 Navigation menu

On the Navigation view, tap to open the Navigation menu.



You can see the following menu options when you are navigating without a planned route:

Button	Function
	Select your destination by entering an address or its coordinate, or by selecting a Place, a Saved Location, or a Saved Route. You can also look up your recent destinations from the History.
	Build your route from one or more route points. You can also plan a route independently of your current GPS position by setting a new starting point.
	Access additional options and check navigation-related information.
	Customize the way the navigation software works.
	See information about the navigation software.
	Tap to put navigation to the background. Tap Minimize in the confirmation message box to proceed.

With a planned route, the following menu options are also available:

Button	Function
	Add an intermediate destination to your route.
	See route alternatives to avoid parts of the route, or to avoid a specific road from your planned route.
	View the route in its full length on the map and check route parameters and route alternatives. Tap to access additional options, like Simulation or Route Preferences.
	Delete your route.
	Delete the next waypoint or the whole route.

In the navigation menu, you have the following additional options:

Button	Function
	Open the Saved Locations screen where you can save a location as a favorite destination or edit a saved location.
	Set the volume or mute the navigation.
	Switch to 2D ( ), 2D North up ( ) view or back to 3D mode.
	Suspend navigation.
	Resume navigation.
	Access the User profiles menu where you can create new profiles or edit the existing ones. If several drivers are using the navigation system, they can create their own profiles with their own settings.

The following options are also available on many of the menu screens:

Button	Function
	The Menu button appears when the Navigation view is displayed. Tap it to open the Navigation menu.
	The More button appears on the screen to display additional features. Tap it to open the list of additional features on certain screens.
	Tap it to return to the map from any menu screen.

	Tap the Back button to return to the previous screen. You can also press and hold this button to quickly return to the Navigation view from any other screen.

3 Using the navigation

By default, the navigation system calculates routes using the road network of the maps provided with the product.

You can select the destination and start navigating to it right away (normal navigation) if you need a route for immediate navigation.

You can also plan a route independently of your current GPS position even without GPS reception. To achieve this, you need to set a new starting point in the Multipoint Route menu. It also suspends guidance so that the route is not recalculated when a new position is received. See Page 52.

You can plan routes with multiple destinations by selecting a first and a second destination and adding it to your route. You can add as many destinations to your route as you like. See Page 49.

You can also use the navigation system for off-road navigation. See page 63.

3.1 Selecting a destination

You can choose your destination by selecting one of the following options:

- Using combined search to search among different destination types at once, see page 23
- Entering a full address or a part of an address, for example a street name without a house number, see page 26
- Selecting a Place as your destination, see page 36
- Selecting a previously saved location as your destination, see page 43
- Selecting a location from the History of previously used destinations, see page 44
- Selecting a previously saved route, see page 46
- Entering the coordinate of the destination, see page 47
- Selecting a location on the map, see page 48
- Planning a multipoint route, see page 49.

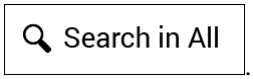
3.1.1 Using combined search

There are several ways to select your destination. You can initiate a separate search for addresses, Places, saved locations, or recent destinations, but the fastest way to search for any of these is to use combined search.

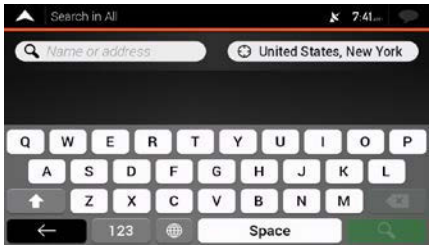
Perform the following steps to use combined search:

1. Tap on the Navigation view to access the Navigation menu.
2. Tap

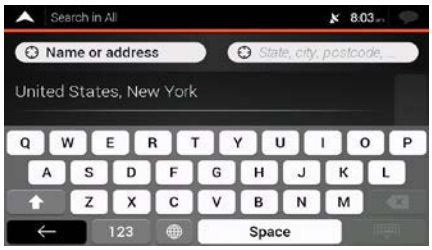
.

3. Tap 

. You can see the input field at the top of the screen. Right next to it you can see the search area, the town around which the search is carried out. The default search area is the area where you are located. For a local search, skip the next step.



4. (optional) To search in a different area, tap the input field with the search area, and start entering the name of the new search area on the keyboard.

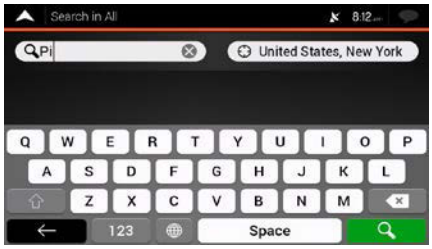


You only need to enter a few letters to get a result. The most likely result appears below the input field as you enter new letters.

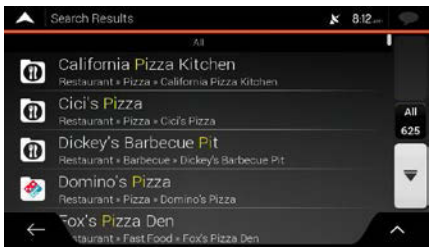
   a. If the new search area is in a different country or state, start entering the country/state and the town.

   b. Tap to see the whole list of the matching results.

5. With the proper search area displayed, start entering the name, address, or category of the destination you are looking for.



6. Tap to switch to the result screen. You can see all the results in the list, regardless of their type. Addresses, Places, Place categories, Saved locations, and recent destinations are mixed in one list. You can immediately select the result you want to use as your destination or narrow the list of results for only one type (for example, Places).



7. If necessary, tap

on the right side of the list and then tap the related button to narrow the list of search results by type (the number on the related icon shows the number of the matching results):

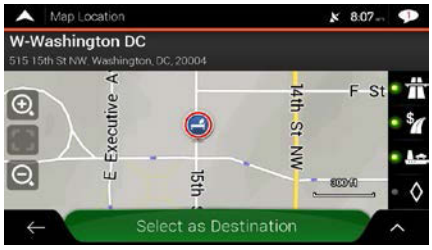
- Tap to see the list of recent destinations with a matching name or address.
- Tap to see the list of your saved locations with a matching name.
- Tap to see the list of matching addresses.
- Tap to see the list of matching Place category names. Scroll the list and select one of the categories. You get the list of Places in that category ordered by their distance from your current position.
- Tap to see the list of matching Places ordered by their distance from your current location.
- (optional) If your product contains Places from different data providers, you can further narrow the list by showing the results from one provider only. Look for the provider logos. Tap one of them to see Places from that provider.

Tip! To search for an intersection in the combined search, enter the names of the streets connected by the '&' sign. You do not need to use spaces before and after the separator character. For example you can find the intersection of Collins Street and Douglas Avenue by entering strings, like "Collins St & Douglas Ave", "Collins & Douglas", "Col&Doug", etc. The more precise the input string is, the fewer false results are expected. If you enter "Collins St&", you get all the intersections of Collins Street and you can select the appropriate one from the result list.

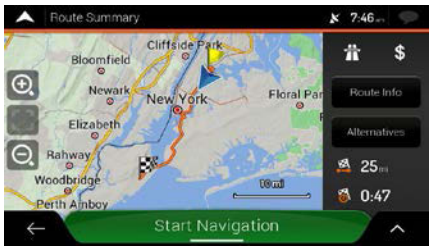
8. Once the destination is selected, a full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The cursor ( ) appears in the new location.

9. Check the settings for road types and change them if necessary.

Tap to enable or avoid freeways, tap for roads with Period Charge or Per-use Toll, tap for ferries, or tap for carpool lanes.



10. Tap Select as Destination to confirm the destination, or tap to select a different destination.
11. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap to modify the route parameters, or tap Start Navigation to start your journey.



3.1.2 Selecting an address

If you know at least a part of the address, this is the quickest way to select your destination.

Using the same screen, you can find an address by entering the following information:

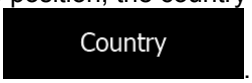
- The exact address, including the house number, see page 27
- The address starting with the street name, see page 30
- The center of a town, see page 32
- The midpoint of a street, see page 33
- An intersection, see page 34
- Any of the above, starting the search with the ZIP code, see page 35.

3.1.2.1 Entering an address with states

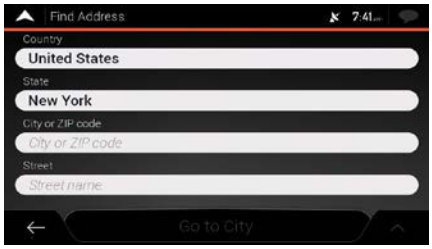
To enter an address as the destination, follow these steps:

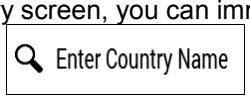
1. Tap on the Navigation view to access the Navigation menu.
2. Tap

and

.
3. By default, the navigation system proposes the country and state where you are or in case there is no valid GPS position, the country and state of the last known position. If needed, change the country. Tap 

.



   a. In the Select Country screen, you can immediately select a country from the list below the input field or tap the 

button and start entering the first few letters of the country on the keyboard. If you select a country without a state, you can search for a town in all its states.

   b. Tap to open the list of results and select one country from the list.

4. If needed, select a new city.

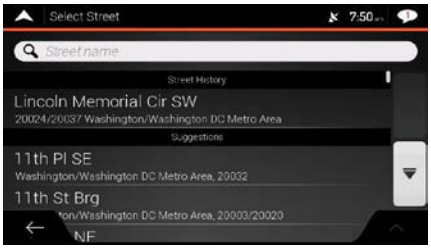
   a. Tap the City or ZIP code field.

   b. (optional) In the Select City or ZIP code screen, you can immediately select a city from the list of suggestions.

   c. Otherwise, start entering the first few letters of the city on the keyboard. The names that match the string appear in a list.

d. To open this list, tap and select the city.

5. Enter the street name.
   a. Tap the Street field.
   b. (optional) On the Select Street screen, you can immediately select a street from the list of suggestions.



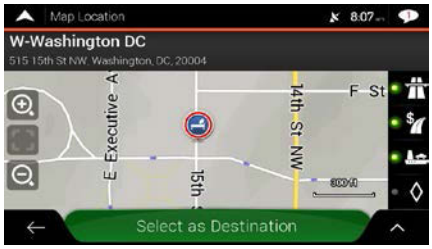
   c. Otherwise, start entering the street name on the keyboard, the names that match the string appear in a list.
   d. Tap to open the list of results. Select the street from the list.

6. Enter the house number by performing the following steps:
   a. Tap the House number or crossing street field.
   b. Enter the house number on the keyboard. (To enter letters, tap .)

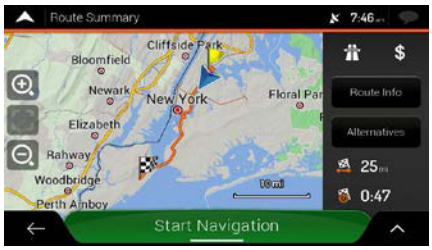
c. Tap the selected address to finish the address search.

7. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The cursor ( ) appears at the new location.
8. Check the settings for road types and change them if necessary.

Tap to enable or avoid freeways, tap for roads with Period Charge or Per-use Toll, tap for ferries, or tap for carpool lanes.



9. Tap Select as Destination to confirm the destination. You can also select a nearby point on the map or tap to select a different destination.
10. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap to modify the route parameters, or tap Start Navigation to start your journey.

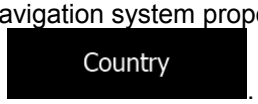


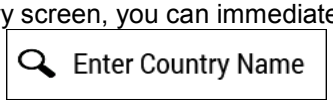
3.1.2.2 Entering an address starting with the street name

After you have selected the country and state, you can leave the city or ZIP code field empty and start the search with the street name. This way you can search in all streets of a state. If you select the country without a state, this function cannot work.

1. Tap on the Navigation view to access the Navigation menu.
2. Tap

and

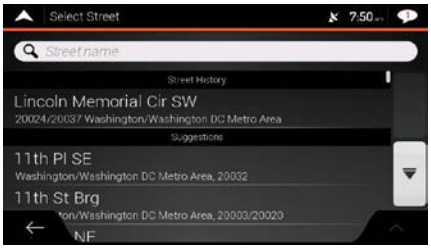
.
3. By default, the navigation system proposes the country and state where you are. If needed, change the country. Tap 

.
   a. In the Select Country screen, you can immediately select a country from the list below the input field or tap the 

button and start entering the first few letters of the country on the keyboard.
   b. Tap to open the list of results and select one country from the list.
4. If needed, select a new city.
   a. Tap the City or ZIP code field.
   b. (optional) In the Select City or ZIP code screen, you can immediately select a city from the list of suggestions.

   c. Otherwise, start entering the first few letters of the city on the keyboard. The names that match the string appear in a list.
   d. To open this list, tap and select the city.

5. Enter the street name.
    a. Tap the Street field.
    b. (optional) On the Select Street screen, you can immediately select a street from the list of suggestions.

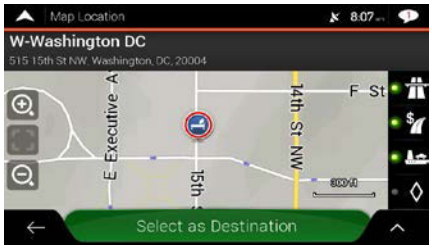


    c. Otherwise, start entering the street name on the keyboard, the names that match the string appear in a list.
    d. Tap to open the list of results. Select the street from the list.

6. Enter the house number by performing the following steps:
    a. Tap the House number or crossing street field.
    b. Enter the house number on the keyboard. (To enter letters, tap .)
    c. Tap the selected address to finish the address search.

7. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The cursor ( ) appears at the new location.
8. Check the settings for road types and change them if necessary.

Tap to enable or avoid freeways, tap for roads with Period Charge or Per-use Toll, tap for ferries, or tap for carpool lanes.



9. Tap Select as Destination to confirm the destination. You can also select a nearby point on the map or tap to select a different destination.
10. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap to modify the route parameters, or tap Start Navigation to start your journey.

3.1.2.3 Selecting a town center

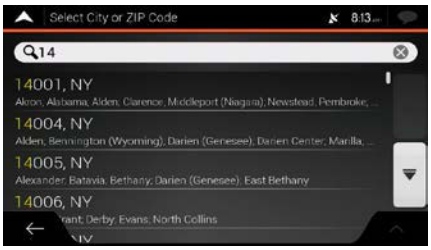
The town center is not the geometric center of the town but an arbitrary point the map creators have chosen. In towns and villages, it is usually the most important intersection and in larger towns, it is one of the important intersections.

1. Go to

,

, and modify the country and state as described earlier (page 27), if necessary.
2. If necessary, select a new town by performing the following steps:
   a. Tap the Town or ZIP code field.

b. (optional) On the Town of ZIP code screen, you can select a town from the list of suggestions.



c. Otherwise, start entering the first few letters of the town. The names that match the string appear in a list.

d. To open the list, tap and select the town.

3. Tap

. This way the center of the displayed town becomes the destination of the route.

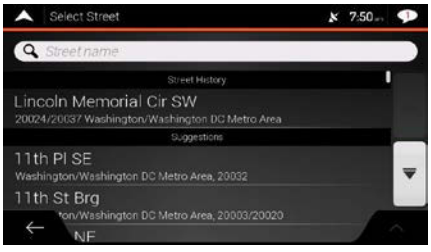
3.1.2.4 Selecting the midpoint of a street

To navigate to the midpoint of a street without entering the house number, perform the following steps:

1. Go to

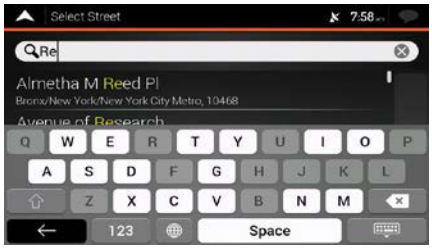
,

, and select the country and town as described earlier. The Select Street screen appears.
2. Enter the street name by performing the following steps:
   a. Tap the Street name field.
   b. (optional) On the Select Street screen, you can immediately select a street from the list of suggestions.



c. Otherwise, start entering the street name on the keyboard. The names that match the string appear in a list.

d. Tap to open the list of results. Select the street from the list.



3. Instead of entering the house number, tap

. The midpoint of the street is selected as the destination.

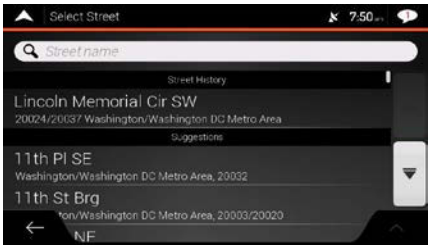
3.1.2.5 Selecting an intersection in a town

To navigate to an intersection, perform the following steps:

1. Go to

,

, and select the country and city as described earlier.
2. Enter the street name by performing the following steps:
   a. Tap the Street name field.
   b. (optional) On the Select Street screen, you can immediately select a street from the list of suggestions.



   c. Otherwise, start entering the street name on the keyboard. The names that match the string appear in a list.
   d. Tap to open the list of results. Select the street from the list.

3. Tap the House number or crossing street field and browse the list of crossing streets or start entering the street name in the field. Select one from the list.

3.1.2.6 Using the ZIP code to select a destination

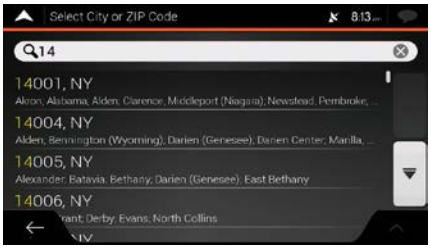
You can also select any kind of destination by entering the ZIP code instead of the city name. To select the ZIP code, perform the following steps:

1. Go to

,

, and modify the country and state as described earlier (page 27), if necessary.
2. Tap the Town or ZIP code field.
3. Enter the ZIP code by performing the following steps:
   a. Tap

to open the numeric keypad.
   b. Start entering the ZIP code.
   c. Tap to open the list of results.
   d. Find the place you need.



4. Continue the search as described previously (page 27).

3.1.3 Selecting a Place of Interest

You can search for Places of Interest (Places) in the

menu.

Using the same screen, you can find a Place by selecting one of the following options:

- Finding frequently searched types of Places with the Quick search categories, see page 36
- Searching for a Place by its name, see page 40
- Searching for a Place by its category, see page 38

In case of emergency, you can also find help nearby, see page 42

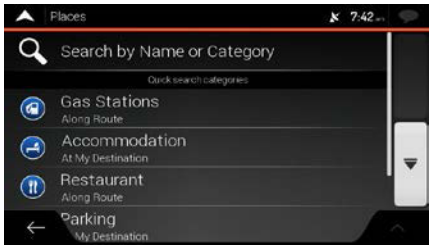
3.1.3.1 Using Quick search categories

The Quick search feature helps you quickly find the most frequently selected types of Places. Perform the following steps:

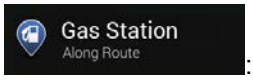
1. Tap on the Navigation view to access the Navigation menu.
2. Tap

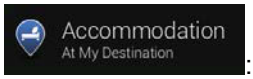
and

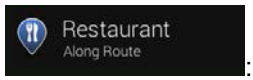
.



The following Quick search categories appear:

- 

: If a planned route exists, gas stations are searched along the route.
- 

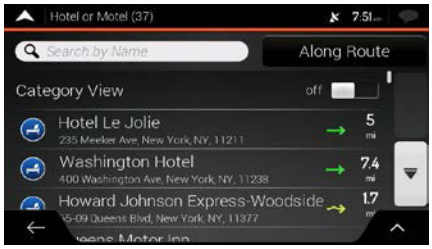
: If a planned route exists, accommodation is searched around the destination.
- 

: If a planned route exists, restaurants are searched along the route.
-

: If a planned route exists, parking lots are searched around the destination.

If there is no planned route (destination is not selected), the search is carried out around the current position. If the current position is not available either (no GPS signal), places are searched around the last known position.

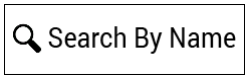
3. Tap any of the quick search buttons to get an instant list of Places.



4. The Places in the list can be ordered by their distance from the current or last known position, from the destination, or by the length of the necessary detour. If you need to reorder the list, tap .

   To filter the list of results by providers, tap

   and then the provider logo on the right side of the screen.

5. (optional) If needed, tap 

   to further filter the list of results.

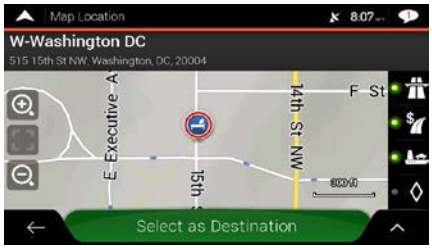
6. Browse the list and tap one of the list items. A full screen map appears with the selected point in the middle. The name and address of the Place is displayed at the top of the screen.

7. Tap to see the details of the selected Place, or to save the location.

8. If necessary, tap the map somewhere else to modify the destination. The cursor ( ) appears at the new location.

9. Check the settings for road types and change them if necessary.

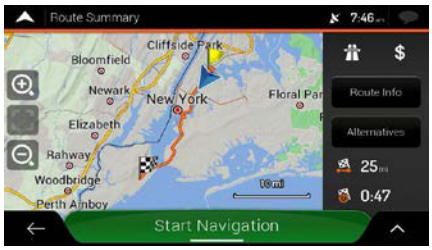
   Tap to enable or avoid freeways, tap for roads with Period Charge or Per-use Toll, tap for ferries, or tap for carpool lanes.



10. Tap

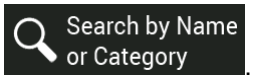
    to confirm the destination. You can also select a nearby point on the map or tap to select a different destination.

11. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap to modify the route parameters, or tap Start Navigation to start your journey.

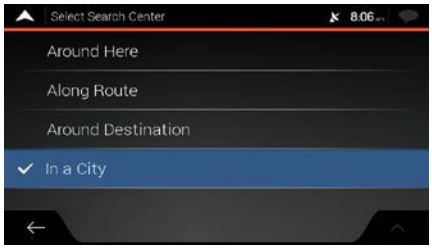


3.1.3.2 Searching by category

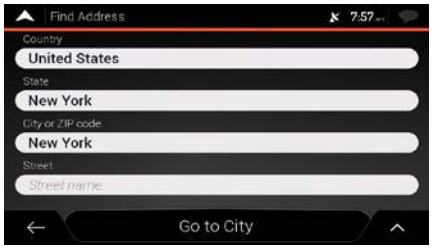
To search for Places by their categories and subcategories, perform the following steps:

1. Tap on the Navigation view to access the Navigation menu.
2. Tap and .
3. Tap  .
4. Select the area around which you would like to search for the Place by tapping Around Here. By default, the search area is around the current position (or if it is not available, around the last known position). In this case, the following result list is ordered by the distance from this position.
   - Tap Along Route to search along the planned route, and not around a given point. This is useful when you search for a later stopover that results in a minimal detour only, such as searching for upcoming gas stations or restaurants. (The result list is ordered by the length of the necessary detour.)
   - Tap Around Destination to search for a place around the destination of the planned route. (The result list is ordered by the distance from the destination.)

- Tap In a City to search for a place within a selected town. (The result list is ordered by the distance from the center of the selected town.)

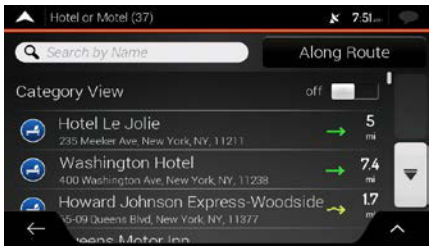


5. (optional) If you have selected In a City, select the town to search in.



6. Select one of the main Place categories (for example, Accommodation), then browse the subcategories (for example, Hotel or Motel) to find your destination.

7. You can turn the Category View off at any level to list all Places around the selected location or along the route.



8. (optional) The Places in the list can be ordered by the following criteria:
   - Name
   - Their distance from the current or last known position
   - Their distance from the selected town
   - Their distance from the destination
   - The length of the necessary detour.

Tap to reorder the list.

To filter the list of results by providers, tap

and then the provider logo on the right side of the screen.

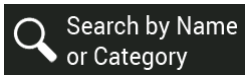
9. Browse the list and tap one of the list items. A full screen map appears with the selected point in the middle.
10. The process continues the same way as in case of any other search for Places. See page 36.

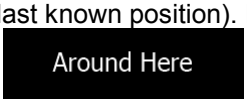
3.1.3.3 Searching by name

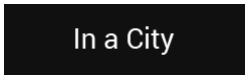
To search for a Place by name, browse the various Place categories, or use the mixture of the two search types, perform the following steps:

1. Tap on the Navigation view to access the Navigation menu.
2. Tap

and

.
3. Tap 

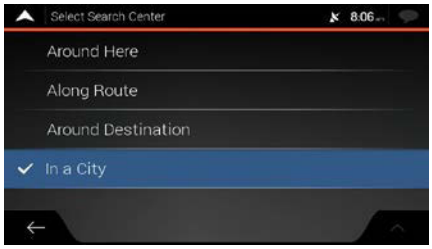
to open the Search By Name or Category window.
4. Select the area around which you would like to search for the Place. By default, the search area is around the current position (or if it is not available, around the last known position). In this case, the result list is ordered by the distance from this position. Tap 

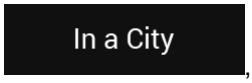
to select one of the following search areas:
   - Tap 

to search for a place within a selected town. (The result list is ordered by the distance from the center of the selected town.)
   - Tap

to search for a place around the destination of the planned route. (The result list is ordered by the distance from the destination.)
   - Tap

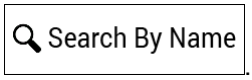
to search along the planned route, and not around a given position. This is useful when you search for a later stopover that results in a minimal detour only, such as searching for upcoming gas stations or restaurants. (The result list is ordered by the length of the necessary detour.)



5. (optional) If you have selected 

, select the town to search in.

You can search for the name of a Place in all categories by performing the following steps:

1. Tap 

. Using the keyboard, start entering the name of the Place or browse in the categories.

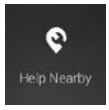
2. After entering a few letters, tap to open the list of Places or Place categories with names containing the entered character sequence.

3. Browse the list, if necessary, and tap the desired list item. A full screen map appears with the selected point in the middle. The process continues the same way as in case of any other Places search. See page 36.

3.1.3.4 Finding help nearby

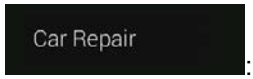
To quickly search for nearby assistance, perform the following steps:

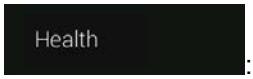
1. Tap on the Navigation view to access the Navigation menu.
2. Tap

and 

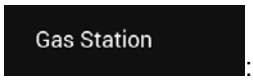
.

Places in the following pre-set search categories can be searched for around the current position (or around the last known position if the current position is not available):

- 

: Car repair and roadside assistance services
- 

: Medical and emergency services
-

: Police stations
- 

: Gas stations

3. Tap any of the quick search buttons to get an instant list of those types of Places.

4. (optional) The Places in the list can be ordered by the following criteria:
   - By their distance from the current or last known position
   - By name.

   Tap to reorder the list.
5. Browse the list and tap one of the list items. A full screen map appears with the selected point in the middle.
6. The process continues the same way as in case of any other Places search. See page 36.

3.1.4 Selecting a Saved Location

To select a location that you have already saved (page 59), perform the following steps:

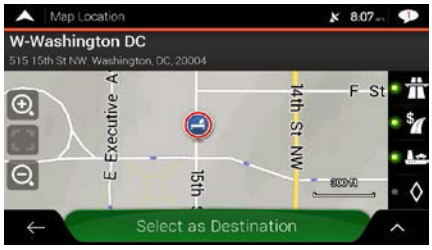
1. Tap on the Navigation view to access the Navigation menu.
2. Tap

and

.
3. The list of saved locations is displayed. It contains two pre-set categories: Home and Work.

4. Tap the location that you want to set as your destination. If necessary, browse the list to see more results.
5. (optional) If needed, tap to enable the editing option so that you can rename the saved locations or delete any of them.
6. After you have selected a saved location as the destination, a full screen map appears with the selected point in the middle.
7. If necessary, tap the map somewhere else to modify the destination. The cursor ( ) appears in the new location.
8. Check the settings for road types and change them if necessary.

   Tap to enable or avoid freeways, tap for roads with Period Charge or Per-use Toll, tap for ferries, or tap for carpool lanes.

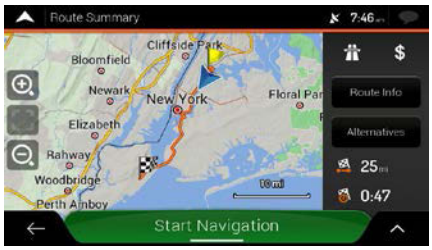


9. Tap

to confirm the destination. You can also select a nearby point on the map or tap to select a different destination.

10. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap to modify the route parameters, or tap

to start your journey.

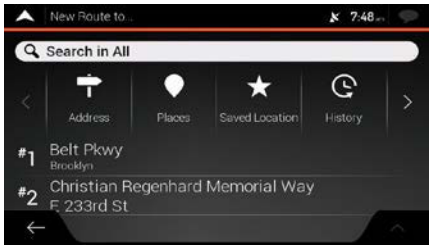


3.1.5 Selecting a History item

The destinations that you have used earlier appear in the History list. Smart History offers these locations from your previous destinations, using parameters like the current time of day, the day of week, and the current location. The more you use the navigation software, the better it can guess your desired destination. To select a History item, perform the following steps:

1. Tap on the Navigation view to access the Navigation menu.
2. Tap

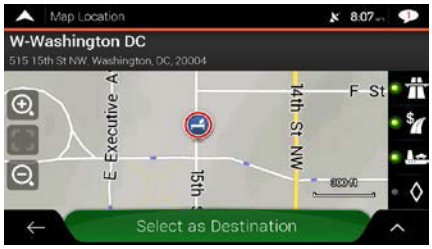
. Two of the Smart History Items are displayed in the New Route to... screen for easy access. You can select one of them as your destination.



3. To open all the history items, tap

. The list of recent destinations appears. The list begins with the three most likely destinations that are selected based on your previous routes (Smart History). The rest of the destinations are ordered by the time they were last selected. If necessary, scroll the list to see earlier destinations.
4. Select a destination from the list.
5. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The cursor ( ) appears at the new location.
6. Check the settings for road types and change them if necessary.

Tap to enable or avoid freeways, tap for roads with Period Charge or Per-use Toll, tap for ferries, or tap for carpool lanes.



7. Tap Select as Destination to confirm the destination. You can also select a nearby point on the map or tap to select a different destination.
8. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap to modify the route parameters, or tap Start Navigation to start your journey.

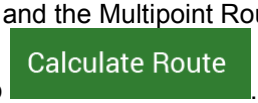
3.1.6 Selecting a saved route

The routes that you have saved earlier appear in a list. To select a previous route, perform the following steps:

1. Tap on the Navigation view to access the Navigation menu.
2. Tap

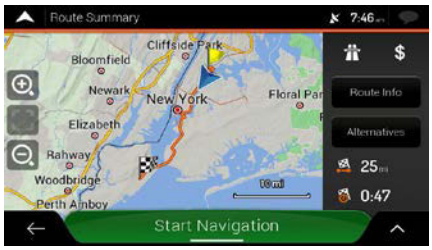
and

.

3. The list of saved routes appears. If necessary, scroll the list to see earlier routes.
4. Select a route and the Multipoint Route screen appears. If necessary, modify the saved route. Otherwise, tap 

.
5. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap to modify the route parameters, or tap

to start your journey.



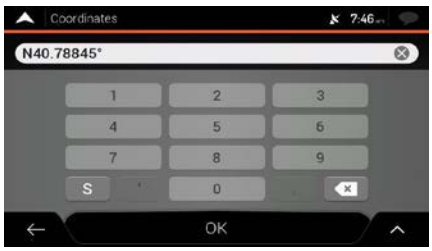
3.1.7 Entering coordinates

To select a destination by entering its coordinates, perform the following steps:

1. Tap on the Navigation view to access the Navigation menu.
2. Tap

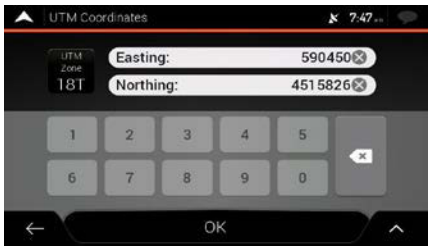
and

.
3. You can enter the latitude and longitude values in any of the following formats: decimal degrees, degrees and decimal minutes, or degrees, minutes and decimal seconds. Tap OK .



(optional) If necessary, tap then UTM Coordinates and enter the coordinate in UTM format.

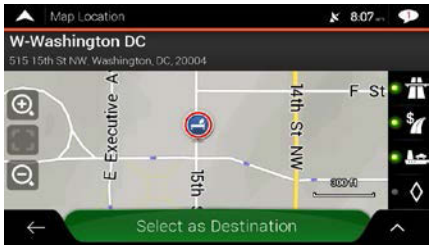
Tip!



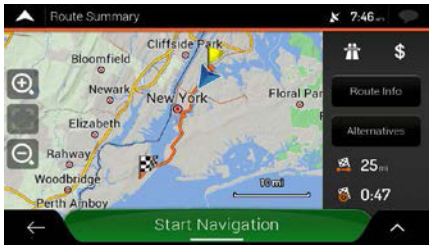
4. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The cursor ( ) appears at the new location.

5. Check the settings for road types and change them if necessary.

Tap to enable or avoid freeways, tap for roads with Period Charge or Per-use Toll, tap for ferries, or tap for carpool lanes.



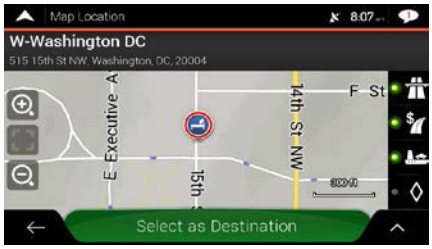
6. Tap Select as Destination to confirm the destination. You can also select a nearby point on the map or tap to select a different destination.
7. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap to modify the route parameters, or tap Start Navigation to start your journey.



3.1.8 Selecting a location on the map

To select a map location, perform the following steps:

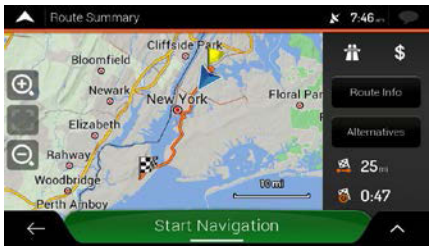
1. Locate your destination on the map. Move and scale the map as necessary.



2. Tap the location that you want to select as your destination. The cursor ( ) appears there.
3. (optional) If needed, tap to list the Places near the selected point or to save this location.

Tip! If you already have a planned route, tap and Select as Waypoint to add the selected location to your route.

4. Tap Select as Destination to select the cursor as the destination.
5. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap to modify the route parameters, or tap Start Navigation to start your journey.



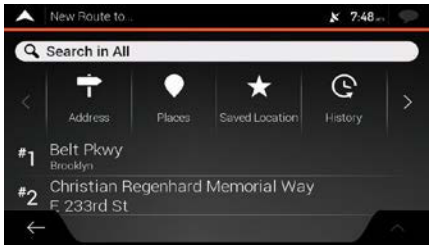
3.1.9 Planning a Multipoint Route

To build your route destination-by-destination, perform the following steps:

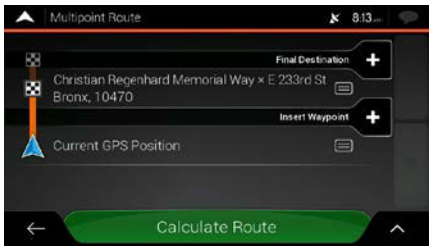
1. Tap on the Navigation view to access the Navigation menu.
2. Tap Multipoint Route.

3. There is only one line in the list of route points, the starting point of the route, which is normally the current GPS position.

4. Tap Destination + to select the destination.
5. The New Route to... screen appears, where you can select the destination of the route the same way as described in the previous sections.



6. When the selected location appears on the map, tap Select as Destination and the list returns. If needed, you can add further intermediate destinations.



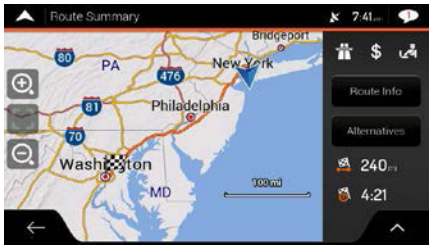
7. To add more route points, tap Insert Waypoint + or tap Final Destination + to change the final destination. The Add to Route... menu appears again, where you can select the new route point the same way as you have set the destination before.
8. (optional) Tap ^ to optimize the whole route or the order of waypoints. You can also delete all the destinations.
9. When you have added all the route points, tap Calculate Route and the planned route is automatically calculated.

3.2 Checking Route Information and Alternatives

To get a map overview of the planned route and check different parameters of the planned route, perform the following steps:

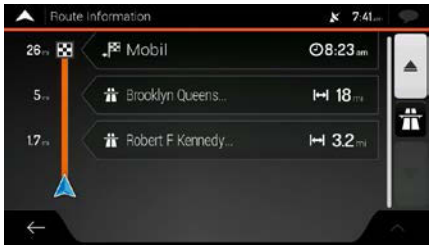
1. Tap on the Navigation view to access the Navigation menu.
2. In the Navigation menu, tap

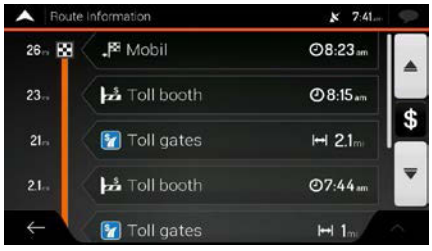
.
3. The planned route is displayed in its full length on the map with the following additional information:
   - The total length of route
   - The total time of route.



4. You have the following options on this screen:
   - Tap

to receive detailed information about the route.





If you tap

on the right side of the screen, you can narrow the route information, for example to show only freeway sections or toll roads.

- Tap Alternatives to list route alternatives and select the most suitable route for you.

Tap on the Route Summary screen to carry out additional actions, for example edit your route preferences or display the itinerary.

3.3 Editing the route

When navigation has already started, there are several ways to modify the planned route. You have the following options:

- Setting a new starting point, see page 52
- Adding an additional destination, see page 54
- Modifying the list of destinations, see page 54
- Saving the planned route, see page 55
- Deleting the planned route, see page 56
- Selecting a route alternative when planning the route, see page 56
- Selecting a route alternative for an existing route, see page 57
- Pausing guidance, see page 58.

3.3.1 Setting a new starting point

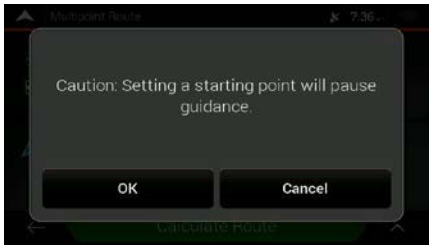
For normal navigation, all routes are calculated from the current position. You can pause navigation to check future routes, simulate them or see their length in time and distance. Then you can set the starting point of the route to a location other than the current GPS position.

1. Tap on the Navigation view to access the Navigation menu.

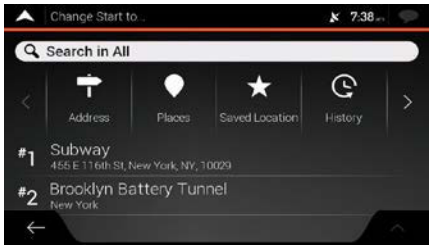
2. In the Navigation menu, tap

.

3. The first line from the bottom is the start of the route, normally the current GPS position. Tap Current GPS Position, select Set Starting Point, and confirm your action at the warning message.

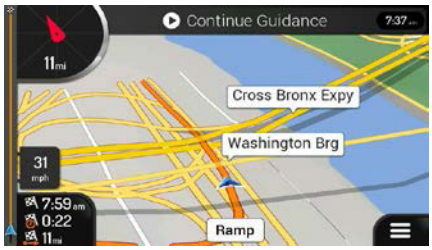


4. The Change Start to... screen appears. Select the starting point of the route the same way you select a destination.



5. You can see the new starting point on the map. Tap Set Starting Point and the Multipoint Route screen appears where you can continue adding a destination to your route.

6. Tap Calculate Route to continue. The map returns with a transparent position marker (showing that there is no GPS reception). If a planned route already exists, it is now recalculated starting from the selected location.



7. To return to normal navigation, tap Continue Guidance.

3.3.2 Adding an additional destination

If you already have a planned route and you select a new destination as described in the above sections, the route to the previous destination is deleted and a new route is calculated.

To add a new intermediate destination to the planned route, perform one of the following actions:

- Tap the map anywhere to browse it. After selecting the location on the map, tap and Select as Waypoint to add the selected location to your route as an intermediate destination. The other destinations of the route remain intact.
- Tap on the Navigation view and tap Multipoint Route. Add a destination to your route as described on page 49.

3.3.3 Modifying the list of destinations

To edit your route, perform the following steps:

1. Tap on the Navigation view to access the Navigation menu.
2. In the Navigation menu, tap Multipoint Route.

You have the following options on this screen:

- Tap to delete all the destinations, or optimize the waypoints or the route.
- Tap the name of the intermediate destination to move it up or down in the list, to save the location, or to delete it from the list.

- If you have a route with at least one intermediate destination, you can delete the waypoint from the list right from the Main menu. Tap

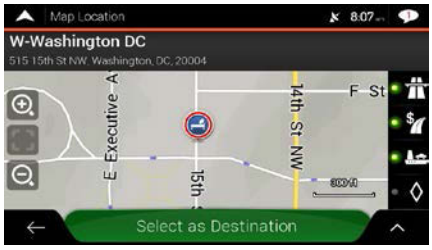
, then confirm the deletion.

3.3.4 Saving the planned route

To save the planned route, perform the following steps:

1. Select a destination as described earlier and tap

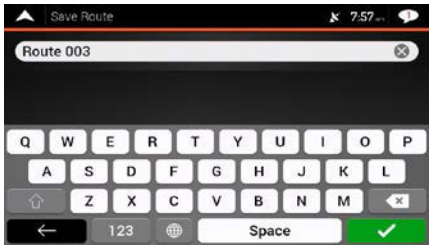
.



2. Tap and

.

3. Type in a name and tap
.



4. The route is saved and it is available in

,

.

By selecting a previously saved route, the navigation system recalculates the route using the saved destination and/or the waypoints.

3.3.5 Deleting the planned route

You have the following two options to delete the navigated route:

- If you already have a planned route and you select a new destination as described in the above sections, the route to the previous destination is automatically deleted and a new route is calculated.
- In the Navigation menu, tap

or

. If there are no waypoints, the planned route is deleted after a confirmation. If you have waypoints, you can choose to delete the whole route, or only the next waypoint.

3.3.6 Selecting a route alternative when planning the route

To select from different route alternatives or change the route planning method after you have selected a new destination, perform the following steps:

1. Select a destination as explained earlier, and go to the route confirmation screen.

2. Tap

.
3. You can see the basic details of route alternatives. Tap any of them to see it on the map.

4. To view more suggestions, tap More Results and scroll down for other alternative routes with different route planning methods.

5. Select one of the route alternatives and tap Select to return to the previous screen.

   The navigation system recalculates the route. Tap orange line now shows the new planned route.

   Start Navigation to start your journey. The

3.3.7 Selecting a route alternative for an existing route

To recalculate the planned route with a different route planning method and to compare different route alternatives, perform the following steps:

1. Tap on the Navigation view to access the Navigation menu.
2. You can access the list of route alternatives from the Navigation menu in one of the following ways:
   - Tap Detours & Alternatives and Alternative Routes.
   - Tap Route Summary and Alternatives.
3. You can see the basic details of a few route alternatives. Tap any of them to see it on the map.

   If there are suitable alternatives calculated with the route planning method that is selected in Route preferences (page 74), they are shown on top of the list. Routes with other route planning methods are shown at the bottom of the list.

4. If there are more than a few suggestions, you can tap More Results and scroll down for routes.

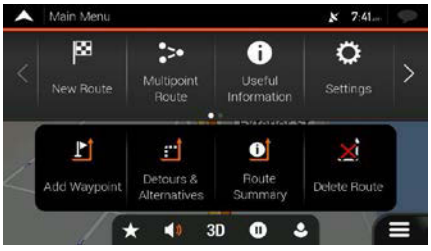
5. Select one of the route alternatives and tap Select to return to the previous screen.

   The navigation system replaces the original route. Tap Start Navigation to start your journey. The orange line now shows the new planned route.

3.3.8 Pausing guidance

When you are driving a planned route but you do not need guidance for a certain part of the route, you can suspend it and continue when it is needed again.

In the Navigation menu, tap to suspend guidance.

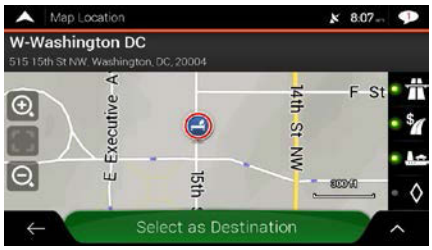


Tap to resume guidance.

3.4 Saving a location

To add any location to the saved locations (the list of frequently used destinations), perform the following steps:

1. Select a destination as described before. It can be an address, a Place, any location on the map, a previously used destination from History, and so on.
2. When the map appears with the selected location in the middle, tap .



3. Tap

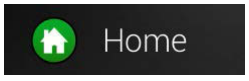
.
4. (optional) Using the keyboard, you can change the name offered for the Saved Location.

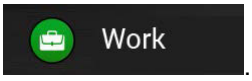
5. Tap to save the location.

To add your home and work address to the saved locations, perform the following steps:

1. On the Navigation view, tap ,

, and

.
2. Tap 

or 

. Tap

to confirm your selection.
3. You can search for the address as described on page 23.

Planning a route to one of the saved locations is described on page 43.

3.4.1 Editing a saved location

To edit a location that you have already added as a Saved Location, perform the following steps:

1. On the Navigation view, tap ,

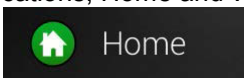
, and

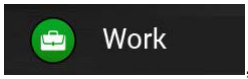
.
2. The list of Saved locations is displayed.

3. Tap and

.
4. Tap the location you want to edit, tap

and enter the name of the location on the keyboard, then tap .

Note! In Saved Locations, Home and Work cannot be renamed. To change your home or work location, tap 

or 

, and confirm the address change.

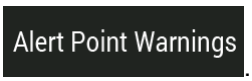
5. Tap

.

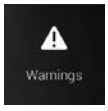
Adding a location to the list of saved locations is described on page 59.

3.5 Adding an Alert Point

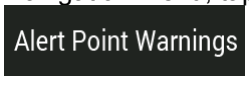
You can save any map location as an Alert Point, for example a speed camera or a school zone.

1. If you would like to save an Alert Point for the first time, switch on the 

. In the Navigation menu, tap

, 

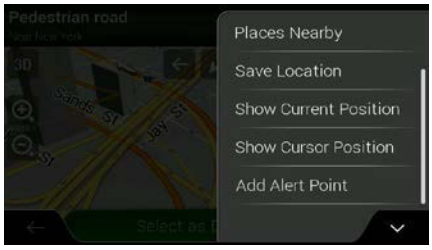
, then

. Switch on 

and confirm your selection.

Note! The warning for road safety cameras is disabled when you are in a country where road safety camera warning is prohibited. However, you must make sure that using this feature is legal in the country where you intend to use it.

1. Return to the Navigation view, and select the Alert Point. The red cursor ( ) appears there.
2. Tap .



3. Scroll down the list and tap Add alert points.
4. Select the type of the Alert Point, the direction from which you expect the alert, and (if applicable) the speed limit for this Alert Point.

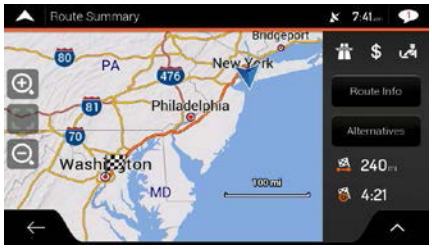
5. Tap Save to save the location as a new Alert Point.

3.6 Running a Simulation

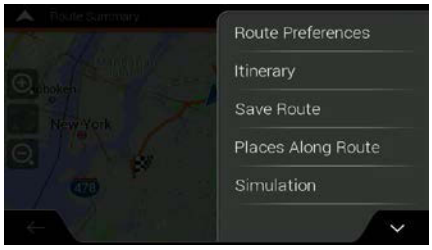
To run a simulated navigation that demonstrates the planned route, perform the following steps:

1. Tap on the Navigation view to access the Navigation menu.
2. In the Navigation menu, tap

.

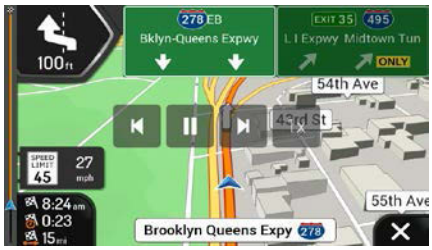


3. Tap .



4. Tap

. The simulation starts from the starting point of the route and leads you through the whole planned route using a realistic speed.



(optional) You have the following controls during the simulation (the control buttons disappear after a few seconds but you can open them again if you tap the map):

- : Jump to the next route event (maneuver).
- : Pause the simulation.

- : Jump to the previous route event (maneuver).
-

: Tap to increase the speed of the simulation to 4, 8 or 16 times faster. Tap again to return to normal speed.

5. Tap to stop the simulation.

3.7 Off-road navigation

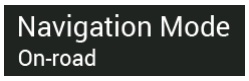
When first started, the navigation system calculates routes using the road network of the maps provided with the product. If you want to disregard roads during navigation, you can switch to off-road mode, for example when driving in a desert.

3.7.1 Switching to off-road navigation

To switch to off-road navigation, perform the following steps:

1. On the Navigation view, tap ,

, and

.
2. Tap 

and select

.

Most of the procedures described for on-road navigation also apply to off-road navigation. However, there are some that are not available in this navigation mode. For example:

- You cannot open the itinerary as you have no maneuvers just route points and straight lines between them.
- There are no route alternatives and route planning method.
- Vehicle settings are disabled.

3.7.2 Selecting the destination in off-road mode

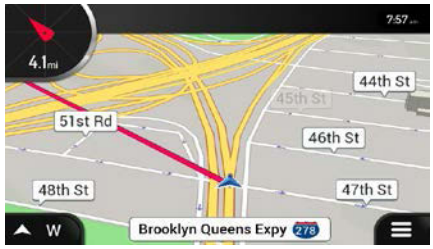
Selecting a destination (waypoint or final destination) is the same as described in the previous sections. The only difference is that route points are linked to form a route with straight lines regardless of the road network and traffic regulations.

3.7.3 Navigating in off-road mode

The real difference between on-road and off-road modes is the navigation itself. When you are on the Navigation view with an off-road route:

- Your position and heading is not aligned to the nearest road.
- There is no turn-by-turn navigation, just a recommended direction.

You can see an orange line drawn between your current position and the next destination to reach. The Turn Preview field in the top left corner shows a compass with your bearing and the distance of the next destination.



When you reach the final destination, the navigation ends.

Note! If you do not want to use off-road navigation, switch back to on-road navigation by tapping Navigation Mode On-road and On-road.

4 Reference guide

The following sections describe the different concepts and menu screens of the navigation system.

4.1 Concepts

The following sections describe and explain navigation-related concepts.

4.1.1 2D/3D GPS reception

The GPS receiver uses satellite signals to calculate its (your) position and needs at least four signals to give a three-dimensional position, including elevation. Because the satellites are moving and because objects can block the signals, your GPS device might not receive four signals. If three satellites are available, the receiver can calculate the horizontal GPS position but the accuracy is lower and the GPS device does not give you elevation data; only 2D reception is possible.

Several factors have an impact on the deviation between your real position and the one given by the GPS device. For example, signal delay in the ionosphere or reflecting objects near the GPS device have a different and varying impact on how accurately the GPS device can calculate your position.

4.1.2 Natural and TTS voices (TTS not supported on the VX7012/VX7022)

Natural voices are the traditional type of voice instructions. Every phrase that occurs in voice guidance messages is recorded in a studio with a real person. The advantage of pre-recorded voice is that it sounds really natural, but the range of instructions that can be given this way is limited. Location-specific information such as street names cannot be announced.

TTS technology provides a machine-generated way to give voice instructions. The advantage of TTS is that it can announce street names, traffic events, route summary, and traffic rules.

4.1.3 Road safety cameras and other proximity Alert Points

There is a special proximity warning for road safety cameras (like speed or red light cameras) and other proximity Alert Points (like schools or railroad crossings). These Alert Points are not included with the navigation software. You can download Alert Points from www.naviextras.com or you can upload points in a specific text file if needed.

You can add your own Alert Points. See page 60.

The application can warn you when you approach road safety cameras like speed cameras or dangerous areas like school zones or railroad crossings. You can set up the different alert types individually in the Warnings settings, see page 80.

The following warning types are available:

- Audio warning: beeps are played (if the voice guidance language that you selected is a natural voice) or the type of the alert can be announced (TTS voice) while you are approaching one of these points, and an extra alert warns you if you exceed the given speed limit while approaching.
- Visual warning: the type of the Alert Point, its distance and the related speed limit appear on the Navigation view while you are approaching one of these locations.

For some of the Alert Points, either the enforced or expected speed limit is available. For these points, the audio alert can be different if you are below or above the given speed limit.

- Only when speeding: The audio alert is only played when you exceed the given speed limit.
- When approaching: The audio alert is always played when approaching one of these Alert Points. In order to draw your attention, the alert is different when you exceed the speed limit.

Note! The warning for road safety cameras is usually disabled when you are in a country where road safety camera warnings are prohibited. Make sure that using this feature is legal in the country where you intend to operate. Use it on your own responsibility.

4.1.4 Route calculation and recalculation

A route is a sequence of route events, that is, maneuvers (for example, turns and traffic circles) to reach the destination. The route contains one starting point and one or more destinations. The starting point is the current (or last known) position by default. If you need to see a future route, the starting point can be replaced with any other given point. See page 52.

Once the destination has been selected, the navigation system calculates the route based on your preferences. These preferences are the route planning method, the vehicle type, and the road types used or avoided when calculating the route. For detailed information on all the preferences, see Route preferences settings, page 74.

The navigation system automatically recalculates the route if you deviate from the proposed itinerary.

4.1.5 Smart Zoom

Smart Zoom provides the following features:

- **While following a route:** When approaching a turn, it zooms in and raises the view angle to let you easily recognize your next maneuver. If the next turn is at a distance, it zooms out and lowers the view angle to be flat so you can see the road in front of you.
- **While driving without a planned route:** Smart Zoom zooms in if you drive slowly and zooms out when you drive at a high speed.

4.1.6 Speed limit warning

Maps may contain information about the speed limits of the road segments. The navigation system is able to warn you if you exceed the current limit. This information may not be available for your region, or may not be fully correct for all roads on the map.

The maximum speed set in the vehicle profile (page 75) is also used for this warning. The navigation system alerts you if you exceed the pre-set value even if the legal speed limit is higher.

Speed warning can be fine-tuned in Warnings. See page 80.

You can also set the relative speed tolerance above which the application initiates the warning.

The following warning types are available:

- Audio warning: You receive a verbal warning when you exceed the speed limit with the given percentage.
- Visual warning: The current speed limit is shown on the map when you exceed it (for example

).

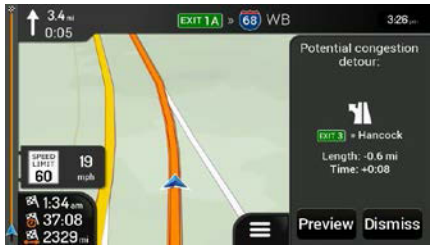
You can also choose to see the speed limit sign on the map all the time.

4.1.7 Intelligent navigation

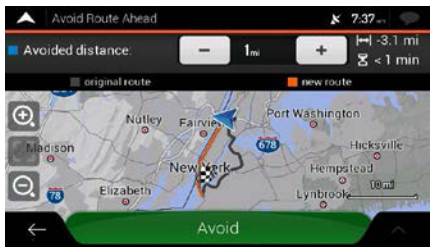
With the help of intelligent navigation, the planned route can adapt to traffic and other changes during navigation. The following sections describe these features.

4.1.7.1 Congestion detour on highways

The navigation system may offer a detour when you slow down on a highway due to a traffic jam. The Potential congestion detour window appears and shows the length and duration of the detour.



You can ignore this message and keep the original route by tapping Dismiss or you can check the suggested route by tapping Preview.

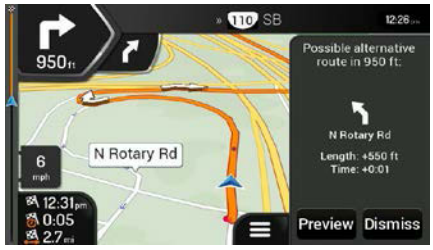


By tapping the plus/minus signs, you can increase or decrease the distance to avoid on the highway.

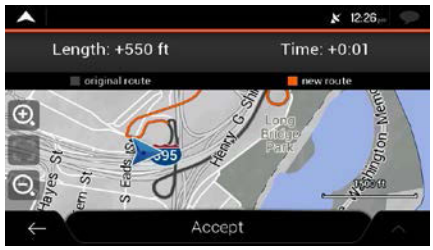
You can accept the recommended detour by tapping Avoid.

4.1.7.2 Real-time alternative routes (Not Supported on the VX7012/VX7022)

iGo Primo Next Gen may offer an alternative route on normal roads in case of a traffic jam. The possible alternative route window appears and shows the length and duration of the detour.



You can ignore this message and keep the original route by tapping Dismiss or you can check the suggested route by tapping Preview. You can accept the recommended detour by tapping Accept.



4.1.7.3 Parking around destination

If you leave the planned route by exiting a freeway, the navigation system tries to guess the reason for making a detour. By tapping P, you can open a top-down map with the recommended parking Places around the destination. By tapping the arrows on the sides, you can switch between the recommended parking facilities.

By tapping Select and Park Here, the selected parking place becomes your destination.

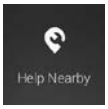
4.1.7.4 Hints upon detour

If you leave the planned route by exiting a freeway, the navigation system tries to guess the reason for making a detour. The Reason for detour window appears and shows available gas stations, restaurants or other Places around the current position. Also, if there are avoidable parts of the original route ahead (like a tunnel, a toll road or a ferry), you can find them in the list, in case you want to bypass them.

By tapping one of the Places, the navigation system creates a waypoint and navigates you to the selected place. You can ignore them by tapping Cancel.

4.2 Useful Information menu

The Useful Information menu provides various additional functions. It can be found in the Navigation menu. You need an Internet connection via your cell phone to access online services, like parking and weather information.

Button	Description
	Shows information on the current position (latitude, longitude, nearest town, next crossing street, and so on) or the last known position if GPS reception is not available. See page 71.
	Offers assistance near your current position. See page 42.
	Offers a list of countries with useful driving information about the selected country (for example speed limits, maximum blood alcohol level).
	Shows statistical data of your trips, like the start time, end time and average speed, see page 72. Track logs, the sequence of the positions given by the GPS receiver, can be saved together with the trip logs. They can later be displayed on the map.
	Shows a world map with the sunlit and dark areas of the world. Tap to check the exact sunrise and sunset times for all your route points.
	Shows the GPS Information screen with satellite position and signal strength information.

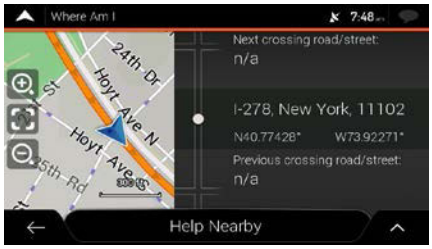
4.2.1 Where Am I

This screen contains information about the current position (or about the last known position if GPS reception is not available). You can access it the following two ways:

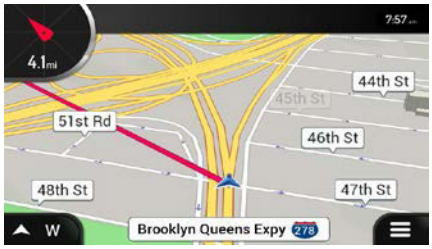
- By going to the Navigation menu and tapping

and

.



- By tapping the current street name if it is displayed below the current position marker on the map.



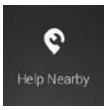
The following information is shown on the Where Am I screen:

- Address details (when available) of the current position
- Latitude and Longitude (coordinate of the current position in WGS84 format)
- The nearest town
- Next crossing road/street
- Previous crossing road/street.

You can also perform some actions on this screen.

Tap and

to add the current position to the saved locations and to check the country information.

You can also search for assistance near your current position. Tap 

to open a new screen for quick search and select a category. For detailed information, see page 42.

4.2.2 Trip Monitor

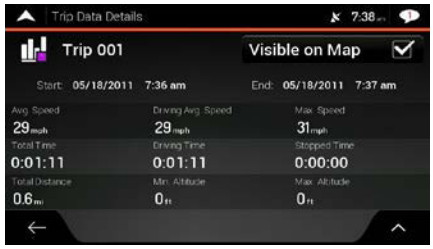
Trip Monitor logs information about your route.

You can record a new trip by tapping Start New Recording and stop it by tapping Stop Recording.

By tapping on the Trip Monitor screen, you can select the following options:

Button	Function
Edit	By selecting a recorded trip, you can delete, rename, or change the color of the recorded route.
Export All	You can export all logs into the **sdmmc** folder.
	You can access the Trip Monitor Settings, where you can enable saving the trip logs automatically or you can save the trip logs manually. See page 85.

By tapping your recorded trip on the Trip Monitor screen, you can check information such as time, speed, altitude and distance.



By tapping on the Trip Data Details screen, you can view the trip on the map, export track logs, and check the elevation and speed profiles.

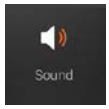
4.3 Settings menu

You can configure the navigation settings, and modify the behavior of the navigation system, by tapping and

.

Tap the arrows to view the content of other pages.

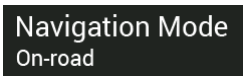
The Settings menu provides the following options:

Button	Function
	Select the type of vehicle you are driving, the road types used in route planning, and the route planning method.
	Adjust the different sound volumes.
	Enable and set up warnings for speed limit, Alert Points (such as speed cameras), and road signs.
	Fine-tune the appearance of the Navigation view or adjust how the software helps you navigate with different kinds of route-related information on the Navigation view.
	Change the voice guidance language, set the time zone, the measurement units, the time and date, and formats, and customize the application for your local language.
	Enable or disable menu animations.
	Enable the online weather forecast and the automatic download of weather information.
	Enable or disable the online fuel price service and select the fuel types to consider.

	Turn the automatic trip log saving on or off and check the current size of the trip database.
	Enable or disable services that require Internet connection.
	Collects usage information and GPS logs that may be used for improving the application and the quality and coverage of maps. Tap this button to enable or disable collecting these data.
	Modify the basic software parameters set during the initial set-up process. See page 6.

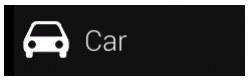
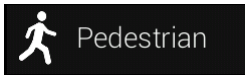
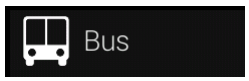
4.3.1 Route preferences settings

The following settings determine how routes are calculated:

Button	Function
	Set the type of vehicle you want to use to navigate the route. Based on this setting, some of the road types can be excluded from the route, or some of the restrictions may not be taken into account in route calculation. See page 75. Edit the parameters of the vehicle profile. See page 75.
	Optimize the route calculation for different situations and vehicle types by changing the planning method. See page 77.
	Select on-road or off-road navigation. See page 63.
	Select your preferred road types for the route. See page 77.

4.3.1.1 Vehicle profile

You can select the following vehicle types:

Button	Description
	Maneuver restrictions and directional constraints are taken into account when planning a route. Roads are used only if access for cars is allowed. Private roads and resident-only roads are used only if they are inevitable to reach the destination. Walkways are excluded from routes.
	Neither maneuver restrictions nor directional constraints are taken into account when planning a route. Roads are used only if access for pedestrians is allowed. Controlled-access roads are excluded from routes. A private road is used only if the destination is there. Speed limits are not used in route calculation and an average walking speed is used when calculating the estimated time of arrival.
	Maneuver restrictions and directional constraints (if they are applied to bicycles in the map data) are taken into account when planning a route. Roads are used only if access for bicycles or pedestrians is allowed. Controlled-access roads are excluded from routes. A private road is used only if the destination is there. Speed limits are not used in route calculation and an average cycling speed is used when calculating the estimated time of arrival.
	All maneuvers are available in intersections. One-way streets are taken into account so that driving in the opposite direction is allowed at low speed. A private road is used only if the destination is there. Walkways are excluded from routes.
	Maneuver restrictions and one-way streets are taken into account when planning a route. Roads are used only if access for buses is allowed. Private roads, resident-only roads and walkways are excluded from routes.

Taxi	Maneuver restrictions and one-way streets are taken into account when planning a route. Roads are used only if access for taxis is allowed. Private roads, resident-only roads and walkways are excluded from routes.
Truck	Maneuver restrictions and one-way streets are taken into account when planning a route. Roads are used only if access for trucks is allowed. Private roads, resident-only roads and walkways are excluded from routes. U-turns are excluded from routes (turning back on a divided road is not considered as a U-turn). If the map contains data on dimension, weight and freight restrictions, they can also be taken into account when planning a route.

Creating a profile makes it possible to set up vehicle parameters used in route planning. You can have several profiles for the same vehicle.

To add a new vehicle profile, perform the following steps:

1. Tap Vehicle, browse the list of vehicles, and tap Add Profile.
2. Select the vehicle type and set the parameters below. Depending on the vehicle type, some parameters may not be available in the list.
3. Tap Use Extended Settings to access additional parameters.

You can set the following parameters:

Button	Function
Name	Rename the profile for something meaningful, for example John's car.
Max. Speed	Set the maximum speed you travel at.
Fuel Consumption in Cities	Enter the average consumption of your vehicle in built-up areas. The unit for consumption can be set in Regional Settings.
Fuel Consumption on Highways	Enter the average consumption of your vehicle on highways. The unit for consumption can be set in Regional Settings.
Engine Type	Select the engine and fuel type of your vehicle. It helps estimate the CO_2 emission.

To reset all vehicle profiles to their default settings, tap ^, Edit, and Reset All.

4.3.1.2 Route Planning Method types

You can select from the following route planning method types:

Button	Description
Fast	Gives a quick route if you can travel at or near the speed limit on all roads. Usually, the best selection for fast and normal cars.
Easy	Results in a route with fewer turns and no difficult maneuvers. With this option, you can make the navigation system take, for example, the freeway instead of a series of smaller roads or streets.
Short	Gives a short route to minimize the travel distance. Usually optimal for pedestrians, cyclists or slow vehicles. Searching for a short route regardless of the speed, this route type is rarely optimal for normal vehicles.
Economical	For vehicle types where Green routing is not available, this method combines the benefits of Fast and Short. The navigation system calculates as if it were calculating the Fast route, but it takes other roads as well to save fuel.

Depending on the vehicle type, some methods may not be available.

4.3.1.3 Navigation Mode

You can switch between on-road and off-road navigation by tapping Navigation Mode On-road and selecting On-road or Off-road (page 63).

4.3.1.4 Road types

To let the route fit your needs, you can also set which road types are to be considered for or to be excluded from the route.

Excluding a road type is a preference. It does not necessarily mean total prohibition. If your destination can only be accessed using some of the excluded road types, they are used only as much as necessary. In this case, a warning icon is shown on the Route information screen, and the part of the route not matching your preference is displayed in a different color on the map.

The following road types are available:

Button	Description
	You might need to avoid freeways when you are driving a slow car or you are towing another vehicle.
	Charge roads are pay roads where you can purchase a pass or vignette to use the road for a longer period of time. They can be enabled or disabled separately from toll roads.
	Per-use toll roads are pay roads where there is a per-use charge in the routes by default. If you disable toll roads, the navigation system plans the best toll-free route.
	The navigation system includes ferries in a planned route by default. However, a map does not necessarily contain information about the accessibility of temporary ferries. You might also need to pay a fare on ferries.
	Car shuttle trains are used to transportss vehicles for a relatively short distance and they usually connect places that are not easily accessible on a road, for example, in Switzerland.
	Carpool or HOV lanes can be used if a given number of passengers is traveling in the vehicle. Check whether you are allowed to use carpool lanes before enabling this road type.
	The navigation system excludes unpaved roads by default. Unpaved roads can be in a bad condition and you usually cannot reach the speed limit on them.

4.3.2 Sound settings

You can modify the following settings:

Button	Function
	This is the main volume control. Adjust all the sound types below or mute them.
	Adjust the volume of the guidance sounds (verbal instructions) or mute it.
	Adjust the volume of the non-verbal alert sounds (beeps) or mute it.
	Turn off the attention tone preceding verbal instructions or adjust its volume.
	Adjust the volume or mute the sound played when pressing the button.

You have the following options for each sound type:

Button	Function
Volume slider	Adjust the volume of the related sound.
	Mute the related sound. The slider becomes inactive. Tap again to re-enable it.

Button	Function
Voice guidance	Disable verbal instructions. This function is enabled by default.
Announce Streets and Roads in Native Language Area	Choose from the following options: • Announce the street names in the native language area of the selected voice guidance language. • Announce the road numbers only. • Announce the maneuvers only.
Announce Streets and Roads in Foreign Language Area	Street names sound correct only if you use a native voice profile for the country. Choose from the following options: • Try to read the street names in a foreign country. • Announce the road numbers only. • Announce the maneuver only.
Early Indication of Maneuvers	Set whether you want an immediate announcement for the next maneuver after each turn, or it is enough to receive the information when the turn is near.
Verbosity Level	Set the verbosity of the voice instructions, that is how much they tell and how often they speak. • Minimal: the voice instruction is given once right before the next maneuver. • Medium: the voice instruction is given when approaching the next maneuver and it is repeated right before the maneuver. • Verbose: the voice instruction is given first relatively far from the next maneuver, it is repeated when approaching the next turn, and it is repeated again right before the actual maneuver.
Announce Route Summary	Allow reading out a quick summary of the route whenever a route is calculated.
Announce Country Info	Allow reading out information about the country you have entered, when you cross country borders.

Announce Traffic Info	Allow reading out real-time traffic messages.
Announce System Messages	Allow announcing system messages.

4.3.3 Warnings settings

You can enable and modify the following settings:

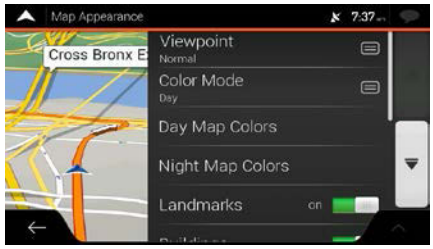
Button	Description
Speed Limit	The navigation system is able to warn you if you exceed the current speed limit. This information may not be available in your region, or may not be fully correct for all roads on the map. The maximum speed set in the vehicle profile is also used for this warning. The navigation system alerts you if you exceed the pre-set value even if the legal speed limit is higher. This setting lets you decide whether you wish to receive visible and/or audible warnings. The following warning types are available: • Visual warning: the current speed limit is shown on the map when you exceed it. • Audio and Visual warning: besides the current speed limit being shown on the map, you also receive a verbal warning when you exceed the speed limit with the set percentage. If you prefer to see the speed limit sign on the map all the time (normally, it is shown only if you exceed the limit), you can set it here. You can also set the relative speed above which the application initiates the warning by adjusting a slider. The value can be different within and outside towns.

Alert Points	Tap it to receive a warning when approaching a road safety camera or other Alert Points like school zones or railroad crossings. You must make sure that using this feature is legal in the country where you intend to use it. You can set the warning type for the different Alert Point categories (alert types) individually. The following warning types are available: • Visual warning: the type of the Alert Point, its distance, and the related speed limit appear on the Navigation view while you are approaching one of these locations. • Audio and Visual warning: besides the visual alert, beeps are played (when using a natural voice) or the type of the alert is announced (in case of a TTS voice) while you are approaching one of these points, and an extra alert warns you if you exceed the given speed limit while approaching. For some of the Alert Points, the enforced or expected speed limit is available. For these points, the audio alert can be different if you are below or above the given speed limit. • Only when speeding: The audio warning is only played when you exceed the given speed limit. • When approaching: The audio warning is always played when approaching one of these Alert Points. In order to draw your attention, the audio alert is different when you exceed the speed limit.
Warning Road Signs	Maps may contain driver alert information that can be shown on the Navigation view in a similar way as real-life road signs. Tap it to enable or disable the warning for these road segments (for example, dangers and sharp curves). For each category of warning signs, set the warning type (visual or audio and visual) and the distance from the hazard to receive the warning at.

4.3.4 Navigation View settings

These settings allow you to fine-tune the appearance of the Navigation view. You can also adjust how the software helps you navigate with different kinds of route-related information on the Navigation view.

Tap Map Appearance to adjust the navigation view to your needs, choose suitable color themes from the list for both daytime and nighttime use, show or hide 3D buildings, landmarks, and manage your Place visibility sets (which Places to show on the map).



You can modify the following settings:

Button	Function
Viewpoint Normal	Adjust the basic zoom and tilt levels to your needs. Three levels are available.
Color Mode Auto	Switch between daytime and night color modes or let the software switch between the two modes automatically a few minutes before sunrise and a few minutes after sunset.
Day Map Color	Select the color scheme used in daytime mode. Daytime colors are bright and similar to paper road maps.
Night Map Color	Select the color scheme used in night mode. Night colors are darker to keep the average brightness of the screen low.
Landmarks	Show or hide 3D landmarks (3D representations of prominent or well-known objects).
Buildings	Show or hide 3D city models (3D block representation of full city building data containing actual building size and position on the map).
3D terrain	Show or hide the 3D elevation of the terrain.
Track Logs	Turn on Track Logs to show them on the map or turn them off.
Place Markers	Select which Places to show on the map while navigating. Too many Places make the map crowded so it is a good idea to keep as few of them on the map as possible. Tap the name of the Place category to show/hide it or to open the list of its subcategories.

You can modify the following additional settings on the Navigation View screen:

Data Fields	If you are navigating with a planned route, you can set three data fields to be displayed on the Navigation view. You can choose from the time of arrival at destination, distance to destination, time to destination, time of arrival at waypoint, distance to waypoint, time to waypoint, heading, or altitude. Without a planned route, there is only one data field that can be set to show the heading or the altitude.
Route Progress Bar	Turn the Route Progress Bar on or off. If turned on, an orange line is displayed on the side of the screen, and a blue arrow on it shows your progress.
Offer Freeway Services	Turn it on to get freeway service information (for example gas stations, restaurants) or turn it off if you do not need it.
Services Displayed	Select the service types displayed for the freeway exits. Choose from the Places categories.

Automatic Overview	Zoom out and show an overview of the surrounding area if the next maneuver is far and you are driving on a freeway. When you get close to the event, the normal map view returns.
Signposts	Whenever adequate information is available, lane information similar to the real ones on road signs above the road is displayed at the top of the map. Tap it to turn this feature on or off.
Junction View	If you are approaching a freeway exit or a complex intersection and the needed information exists, the map is replaced with a 3D view of the junction. Tap it to turn this feature on or let the map be displayed for the whole route.
Tunnel View	When entering tunnels, the surface roads and buildings can be disturbing. Tap it to show a generic picture of a tunnel instead of the map. A top-down overview of the tunnel and the remaining distance are also displayed.
Offer Congestion Detour on Highways	In certain situations, the navigation system offers a detour when there is a traffic jam on a highway. See page 67.
Offer Real Time Alternative Routes	In certain situations, the navigation system offers an alternative route when there is a traffic jam on the road. See page 68.
Offer Parking Around Destination	In certain situations, the navigation system offers parking Places when you approach your destination. See page 69.
Offer Hints Upon Detour	In certain situations, the navigation system offers different route alternatives when you leave the planned route and suddenly exit the freeway. See page 69.

4.3.5 Regional settings

You can modify the following settings:

Button	Description
Language	It displays the current written language of the user interface. Tap it to select a new language from the list of available languages. The application restarts after you change this setting and confirm it.
Voice Language	It shows the current voice guidance profile. Tap it to select a new profile from the list of available languages and speakers. Tap any of these to hear a sample voice prompt. Just tap when you have selected the new spoken language. Different voice profiles are capable of different levels of service: • Natural Voice (street names not announced): These pre-recorded sounds can only tell you basic information about turns and distances. • TTS Voice (street names announced): These computed voices can read out complex instructions, street names or system messages. • TTS Voice with a microphone icon: Besides the above-mentioned profiles, it can also be used for voice recognition.
Units and Formats	You can set the measurement units and time/date format to be used. The navigation system may not support all the listed units in some voice guidance languages.
Time Zone	By default, the time zone is taken from the map information and adjusted by your current location. Here you can manually set the time zone and the daylight saving time.

4.3.6 Display settings

You can modify the following settings:

Button	Function
Menu Animation	When animation is turned on, buttons on menus and keyboard screens, and screen transitions are animated.

4.3.7 Trip Monitor settings

Trip logs contain useful information about your recorded trips. You can enable and modify the following settings:

Button	Description
Enable auto-saving	Trip monitor can record statistical data of your trips. If you need these logs later, you can let the application save them automatically for you.
Save track log	Track logs, the sequence of the positions given by the GPS receiver, can be saved together with trip logs. They can later be displayed on the map. You can let the application save track logs whenever it saves a trip.
Trip database size	This is not a button. This line shows the current size of the trip database, the sum of all trip and track logs saved.

5 Troubleshooting

This section offers possible solutions to issues that may occur during the operation of the navigation system.

5.1 GPS signal cannot be received

Issue: The current location is not available, because GPS signal cannot be received.

Cause 1: GPS signal is weak or may not be available if you are between tall buildings, in garages or tunnels as the signal weakens or distorts as it travels through solid material.

Solution 1: Go to a place where there is a clear sight of the sky or at least a bigger part of the sky is visible.

Cause 2: It may take several minutes to receive GPS signals when first using the navigation system, or when your last known position is farther away from your current position.

Solution 2: Wait a few minutes for the GPS signal.

5.2 Address cannot be found

Issue: The navigation system cannot find the address you entered.

Cause: The digital map data may not include every single address.

Solution 1: If the house number is not known or the navigation system cannot find it, select only the street name. This way, the navigation system will navigate you to the midpoint of the street, where you can find the exact address more easily.

Solution 2: Search for another address that is close to the destination.

Solution 3: Search for the coordinates or a nearby Place of Interest.

5.3 The calculated route is not optimal

Issue: The planned route is too long or includes several minor roads.

Cause: In

,

the route planning method is not set to the optimal parameter.

Solution: Select your preferred route planning method by performing the following steps:

1. Tap ,

, and

.
2. Tap

and select your preferred route, for example

or

. See Page 77.

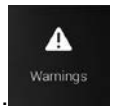
5.4 Disabling the speed limit warning

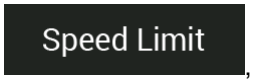
Issue: The speed limit warning is signalling even when the actual speed limit is kept.

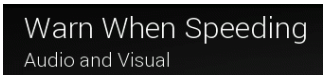
Cause: The speed limit in the digital map data might differ from the actual speed limit of your current location.

Solution: Disable the speed warning by performing the following steps:

1. Tap ,

, and . 

.
2. Tap 

, 

and

.

5.5 Keyboard buttons are grayed out

Issue: Some keyboard buttons are grayed out and cannot be used.

Cause: The navigation system has a smart keyboard for address search, which means that only those buttons are active that can be used to type a name that is available on the map.

Solution: Check if you entered the name correctly. If the name is correct, then the address you are looking for is not available in the digital map data.

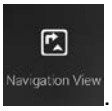
5.6 The map is hidden behind an image of a junction

Issue: The map is not visible because it is hidden behind an image of a junction.

Cause: If you are approaching a freeway exit or a complex intersection and the needed information exists, the map is replaced with a 3D view of the junction. The lanes you need to take are displayed with arrows.

Solution: If you want to hide the currently displayed junction and return to the Navigation view, tap the picture. To turn off this feature, perform the following steps:

1. Tap ,

, and 

.
2. Tap

. Now the tunnel view will not appear again.

6 End-user license agreement

0. Definitions

The following terms shall have the meaning defined hereunder in this agreement when used with capital letters. The text of this agreement may also contain further defined terms.

“Agreement” means this End User License Agreement (EULA) containing the terms and conditions of use of the Software, Databases and Services by You as the end user.

“Database” or “Database Content” means geographically referenced data such as map data, points of interest (“POI”), 3D models, TMC location tables, phonemes, images, audio or video files and other data, as well as any data suitable for integration into the Software.

“Device” means the hardware equipment manufactured or distributed by Licensor on which the Navigation Product is installed.

“Software” means the turn-by-turn navigation software installed on the Device, including the core engine, other software modules and the graphical user interface, capable of processing and/or displaying the Databases and the Services. The term Software shall by definition include any modifications, updates, upgrades thereto.

“Service” means the provision of dynamically changing information that may be provided by-, displayed by- or transmitted through the Software, for example, but not limited to Traffic Message Channel (TMC) service, search, weather information and community based services. Services are usually transmitted online via the Internet, but may be conveyed via other means (e.g. via radiowaves in case of “RDS TMC” service).

“Navigation Product” means the Software, the Databases and the Services together, as (i) distributed with the Device by the Licensor or (ii) otherwise installed on the Device.

1. The contracting parties

1.1 This Agreement has been entered into by and between You as the end user (hereinafter: “User”) and the business entity distributing/selling the Device together with the Navigation Product, under its own name and/or branding (hereinafter: “Licensor”). This Agreement sets out the conditions and limitations of use of the Navigation Product. The User and the Licensor are referred together as: “Parties”.

1.2 User represents and warrants that (i) he/she is not located in a country that is subject to a U.S. Government embargo, or that has been designated by the U.S. Government as a “terrorist supporting” country; and (ii) he/she is not listed on any U.S. Government list of prohibited or restricted parties.

2. Conclusion of the Agreement

2.1 This Agreement is concluded by implicit conduct of the Parties without signing the Agreement.

2.2 The User hereby acknowledges that following the lawful acquisition of the Navigation Product constituting the object of this Agreement, any of the following actions of use shall mean that the User has accepted the terms and conditions of this Agreement as legally binding: (i) any degree of use, installation onto a computer or other Device (cell phone, multi-function device, personal navigation device, in-car navigation or multi function head unit, etc.), (ii) pressing the “Accept” button displayed by the Navigation Product during installation or use. The time of conclusion of the present Agreement is the time of executing the first action of use (commencement of use).

2.3 This Agreement shall by no means authorize the usage of the Navigation Product by those persons having unlawfully acquired the Navigation Product or having unlawfully installed it on a Device or in a vehicle.

2.4 U.S. Government Users. If you acquire the Navigation Product by or on behalf of the United States Government or any other entity seeking or applying rights similar to those customarily claimed by the United States Government, you are on notice that the Navigation Product is a commercial item as that

term is defined at 48 C.F.R ("FAR") 2.101 and that all use of the Navigation Product is subject to this Agreement.

3 Applicable law and venue

3.1 This Agreement will be governed by the laws of the country where the Licensor has its statutory seat or in the absence of such incorporation where it has its central administration ("country of residence") without regard to such country's choice of law provisions.

3.2 The courts of the country of residence specified in Section 3.1. above shall have jurisdiction over all disputes related to this Agreement.

3.3 If the User is a "consumer" (a natural person who purchased and uses the Navigation Product for purposes outside its business activities or which can be regarded as being outside his trade or profession), the above choice of law and choice of venue shall not, have the result of depriving the consumer of the protection afforded to him by provisions (including any provision regulating the court having jurisdiction) that cannot be derogated from by agreement by virtue of the law which, in the absence of choice, would have been applicable.

3.4 The United Nations Convention on Contracts for the International Sales of Goods is hereby excluded from application to this Agreement.

4. Object of the Agreement and Termination

4.1 The object of this Agreement shall be the Navigation Product as a whole and the components (the Software, the Databases and the Services) thereof. User acknowledges that all author's rights (including the economic rights) vested in the Software are owned by NNG Software Developing and Commercial Ltd. (registered seat: 35-37 Szépvölgyi út, H-1037 Budapest, Hungary; company reg.no.: 01-09-891838, http://www.nng.com), herein referred to as: Software Owner.

4.2 Any form of display, storage, coding, including printed, electronic or graphic display, storage, source or object code, or any other as yet undefined form of display, storage, or coding, or any medium thereof shall be deemed parts of the Navigation Product.

4.3 Error corrections, updates or upgrades or any other modifications to the Navigation Product used by the User following the conclusion of this Agreement shall also be used in accordance with this Agreement.

4.4 Your rights under this Agreement will terminate immediately without notice from Licensor if you materially breach them, or take any action in derogation of the rights of Licensor, any suppliers holding rights in the Navigation Product and/or their suppliers. Licensor may terminate this Agreement if the Navigation Product as a whole or any part thereof becomes, or in Licensor's (or other suppliers holding rights in the Navigation Product) reasonable opinion likely to become, the subject of a claim of intellectual property infringement or trade secret misappropriation. Upon termination, you will cease use of, and delete the Navigation Product and confirm compliance in writing to Licensor, if requested.

4.5 Licensor reserves the right to upgrade, modify, withdraw, suspend, or discontinue any Service offering, functionality or feature of the Navigation Product or may terminate distribution of the Navigation Product in its sole discretion due to reasons such as (but not limited to): the provision is no longer financially or otherwise feasible for Licensor, technology advances, or conditions rules change, end user feedback indicates a change or is needed, agreements with third parties no longer permit us to make their Databases or Services available, or external issues arise that make it imprudent or impractical to continue with the provision.

4.6 Licensor reserves the right to replace any Database or Service with another Database or Service having the same or similar functionality. Such change may be executed upon the sole discretion of Licensor.

5. Rights under copyright or other intellectual property rights

5.1 All material copyrights and other intellectual property rights vested in the Navigation Product or any parts thereof, that are not explicitly granted in this Agreement or by virtue of law, are reserved.

5.2 Intellectual property rights of Licensor, the Software Owner or other rightholders extend to the whole Navigation Product and to its parts separately as well.

5.3 The owner(s) of the copyrights of the Database(s) is (are) the Licensor, or natural person(s) or corporate business entity(ies) (referred to as: “Database Owner”) who supply them. In the event that the copyright owner of the Database is not the Licensor, the Licensor hereby states that it has obtained sufficient usage and representation rights from the Database Owners in order to utilize the Databases in line with this Agreement.

5.4 Services available through the Software may transmit various types of information or content to the User, which information or content is gathered and provided by third party service providers. Therefore it is understood and accepted that neither the Licensor nor the Software Owner has the ability or right to control, alter or modify such information and content and the Service itself is only a function enabling the Software to access, download and display information and content to the User.

5.5 Database Owners, service providers and any special terms and conditions regarding their products contained in- or displayed through the Navigation Product may be listed in the “About” or similar menu item of the Navigation Product, or in in the Device documentation or at a website address indicated in the “About” section.

6. Rights of the User

6.1 Without prejudice to Section 6.2 below, by default the User is entitled to run the Navigation Product on the Device the Navigaiton Product came preinstalled before purchase or on the Device in connection which the Navigation Product was provided by Licensor, and to run and use one copy of the Navigation Product or a preinstalled copy of the Navigation Product thereon. The Navigation Product is for the User’s personal purposes only.

6.2 In the event that the Navigation Product comes preinstalled on- or otherwise licensed together with the Device or acquired from Licensor by the User for a specific Device, the Navigation Product shall be tied to the Device and may not be separated-, transferred to-, or used with another Device or sold to another User without selling the Device itself.

6.3 The Databases and Services provided to the User may only be used together with User’s copy of the Software and may not be used separately or with another copy of the Software.

7. Limitations of use

7.1 The User is not entitled:

7.1.1 To duplicate the Navigation Product (to make a copy thereof) or any part of it, except to the extent allowed by this Agreement or applicable law;

7.1.2 To resell, sublicense, lease, rent or lend it, or to transfer it to a third person for any reason without transferring the Device on which it was first legally installed on (see section 6.2);

7.1.3 To translate the Navigation Product (including translation (compilation) to other programming languages);

7.1.4 To decompile, disassemble, or reverse engineer the Navigation Product;

7.1.5 To evade the protection of the Navigation Product or to modify, circumvent or obviate such protection through technological or by any other means;

7.1.6 To modify, extend, transform the Navigation Product (in whole or in part), to separate it into parts, combine it with other products, install it in other products, utilize it in other products, not even for the purpose of achieving interoperability with other devices;

7.1.7 To remove, modify or obscure any copyright, trademark notice, or restrictive legend included in the Navigation Product or any part thereof.

7.2 The User may only use the Databases and information from the Services available through the Navigation Product (including but not limited to the traffic data received from the RDS TMC or on-line TMC traffic information service) for his/her own benefit and at his/her own risk. It is strictly prohibited to

store, to transfer or to distribute these data or contents or to disclose them in full or in part to the public in any format or to download them from the Navigation Product.

8. No warranty, limitation of liability

8.1 The Licensor hereby informs the User that although the greatest care was taken in producing the Navigation Product, given the nature of the Navigation Product and its technical limitations, the Licensor and its suppliers do not provide a warranty for the Navigation Product being completely error-free, and they are not bound by any obligation whereby the Navigation Product obtained by the User should be completely error-free.

8.2 THE LICENSED NAVIGATION PRODUCT, INCLUDING ANY OF THE DATABASES, OR SERVICES FORMING PART THEREOF ARE PROVIDED ON AN “AS IS” AND “WITH ALL FAULTS BASIS” (INCLUDING NO WARRANTY FOR THE CORRECTION OF FAULTS) AND LICENSOR, THE DATABASE OWNERS, THE SOFTWARE OWNER, THE SERVICE PROVIDERS AND THIRD PARTY SUPPLIERS EXPRESSLY DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, SATISFACTORY QUALITY, ACCURACY, TITLE AND FITNESS FOR A PARTICULAR PURPOSE. NO ORAL OR WRITTEN ADVICE OR INFORMATION PROVIDED BY LICENSOR OR ANY OF ITS AGENTS, SUPPLIERS, EMPLOYEES, THIRD PARTY PROVIDERS, THE SOFTWARE OWNER OR THE DATABASE OWNERS AND SERVICE PROVIDERS SHALL CREATE A WARRANTY, AND USER IS NOT ENTITLED TO RELY ON ANY SUCH ADVICE OR INFORMATION. THIS DISCLAIMER OF WARRANTIES IS AN ESSENTIAL CONDITION OF THE AGREEMENT.

Licensor does not warrant that the Navigation Product is capable of interoperating with any system, device or product.

8.3 The Licensor does not assume any responsibility for damages incurred due to an error in the Navigation Product.

8.4 The Licensor does not assume any responsibility for damages incurred due to the Navigation Product not being applicable for any defined purpose, or due to the error or incompatibility of the Navigation Product with any other system, device or product.

8.5 NEITHER LICENSOR NOR ITS SUPPLIERS SHALL BE LIABLE TO USER FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT OR EXEMPLARY DAMAGES ARISING OUT OF THIS AGREEMENT, INCLUDING LOST PROFITS OR COSTS OF COVER, LOSS OF USE OR BUSINESS INTERRUPTION OR THE LIKE, REGARDLESS OF WHETHER THE PARTY WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

NOTWITHSTANDING ANYTHING TO THE CONTRARY CONTAINED HEREIN, THIRD PARTY SUPPLIERS (E.G. DATABASE OWNERS, MAP PROVIDERS, SERVICE PROVIDERS, THE SOFTWARE OWNER) OR AGENTS OF LICENSOR SHALL HAVE NO MONETARY LIABILITY TO THE USER FOR ANY CAUSE (REGARDLESS OF THE FORM OF ACTION) UNDER OR RELATING TO THIS AGREEMENT.

IF YOU HAVE ANY BASIS FOR RECOVERING DAMAGES FROM LICENSOR OR ANY OF ITS SUPPLIERS, YOU CAN RECOVER ONLY DIRECT DAMAGES UP TO THE AMOUNT THAT YOU PAID FOR THE NAVIGATION PRODUCT (OR UP TO 10 USD IF THE AMOUNT IS NOT CALCULABLE OR IF YOU ACQUIRED THE NAVIGATION PRODUCT FOR NO CHARGE). THE DAMAGE EXCLUSIONS AND LIMITATIONS IN THIS AGREEMENT APPLY EVEN IF REPAIR, REPLACEMENT OR A REFUND FOR THE NAVIGATION PRODUCT DOES NOT FULLY COMPENSATE YOU FOR ANY LOSSES OR IF THE LICENSOR OR ITS SUPPLIERS KNEW OR SHOULD HAVE KNOWN ABOUT THE POSSIBILITY OF THE DAMAGES.

8.6 The Licensor also draws the attention of the User to the fact that, when using the Navigation Product in any form of vehicle, observing the traffic regulations and rules (e.g. use of obligatory and/or reasonable and suitable security measures, proper and generally expected care and attention in the given situation, and special care and attention required due to the use of the Navigation Product) is the exclusive responsibility of the User. The Licensor shall not assume any responsibility for any damages occurred in relation to use of the Navigation Product in any vehicle.

Safety (e.g. speed) cameras are provided for informational purposes only and may not be used to encourage, facilitate or support the violation of any laws. Furthermore some countries prohibit the display or use of such features. Compliance with country specific laws and any usage or reliance on the information by user shall be at the User's own risk and sole responsibility.

8.7 Database and Services provided by third parties. The Licensor hereby excludes any liability of its own for the Database or information obtained through the Services in the Navigation Product. The Licensor does not warrant the quality, suitability, accuracy, fitness for a specific purpose or territorial coverage or availability of the Database or information. The Licensor specifically excludes any and all liability for the suspension or cancellation of any of the Services, and any damage arising due to cancellation of a Service. User acknowledges that the mapping data in Databases may contain geographical data and other data.

8.8 The User hereby acknowledges that (i) inaccurate or incomplete information due to the passage of time, changing circumstances, sources used and the nature of collecting comprehensive geographic data, may each lead to incorrect results; and (ii) that the Database or information obtained through the Services provided by third parties may only be used at the risk of the User and for the benefit of the User. User acknowledges that the Databases are the confidential information of Database Owners and disclosure of the Databases to third parties is prohibited.

8.9 USE OF THE NAVIGATION PRODUCT'S REAL TIME ROUTE GUIDANCE FUNCTION IS AT USER'S SOLE RISK AS LOCATION DATA MAY NOT BE ACCURATE.

8.10 Database Content and Services provided by the Licensor or an agent of the Licensor. For certain Navigation Products the Licensor or the Software Owner or a contractual partner may offer various products and services to the User through the http://www.naviextras.com or another dedicated website. The User may only use these services when the User has read and understood the relevant terms at the website and the User is obliged to use the services in line with those terms. In the event of conflict between this Agreement and such additional terms, the additional terms shall prevail.

8.11 Purchase and acquisition of activation license for the use of certain functions, Databases, or Services may require Internet connection and no alternative way of acquisition is offered by Licensor or the supplier of those functions, Databases, or Services.

9. Sanctions

9.1 The Licensor hereby informs the User that the breach of copyrights and related rights is a crime under numerous jurisdicitons, including in the United States of America and other countries who ratified the International Convention on Cybercrime.

9.2 Licensor, Software Owner and suppliers of products on the basis of this Agreement are continously monitoring violation of their intellectual property rights, and in case infringing use is detected, violators will face criminal and civil procedures initiated against them in any and all jurisdictions.

10. Anonymous data collection

10.1 The User hereby acknowledges that the Software may collect, transmit to Licensor or third parties, and in some cases stores data connected to the usage of the Software by the User (e.g. movement/route data, user interaction data). Such data collection functions may be disabled or enabled by User any time from within the corresponding menu within the Navigation Product. The collected data is always anonymous, not associated in any way with any personal information of the User or with the User itself.

10.2 The collected data may be uploaded to the Software Owner's database or transmitted periodically or in real time to a third party partner and used exclusively for the purpose of enhancing and improving the precision and reliability of features and services of the Navigation Product. Uploading is executed through the Sofware Owner's special software or by the Device, and the upload may be enabled or disabled by User. After successful data upload, the collected data is deleted from the Navigation Product and the Device or may be deleted by the User manually.

10.3 Collected data is transmitted, stored and handled anonymously and no connection of the data with the User shall be established by Licensor or any third party.

10.4 Licensor hereby informs the User, that if it accesses the Internet through mobile data service while abroad or otherwise roaming another mobile network the transmission of such data may result in special roaming charges. To avoid such charges it is the responsibility of the User to disable mobile data services while roaming or to turn off the data collection functions of the Navigation Product.

11. Auxiliary Terms for Services

11.1 For online Services the following auxiliary terms shall also apply. Information or Database content (e.g. weather-, traffic information, location based information, online search results) may be transmitted to the User's Device through an Internet connection ("Connected Services"). Connected Services may be granted for a fee or free of charge subject to Licensor's decision.

11.2 Information and content through Connected Services in general are not available in all countries, or all languages, furthermore different conditions and service characteristics may apply in different countries. Use of certain Connected Services may be prohibited in certain countries. It is the User's responsibility to comply with country specific regulation. Licensor excludes its liability for the consequences of illegal use of such functions and User shall indemnify and hold Licensor harmless from all claims against Licensor from authorities or third parties due to the illegal use.

11.3 Online information and content are downloaded by the Navigation Product from the Software Owner's or other suppliers' online content servers. The Licensor hereby excludes any liability of its own for all information and content. As no control may be exercised by the Licensor or the Software Owner over the information or content, neither Licensor nor Software Owner warrants the legality, quality, suitability, accuracy, fitness for a specific purpose or territorial coverage of the information and content, furthermore no warranty is offered regarding the availability (e.g. uptime) of online information and content servers. User acknowledges that in any territory or time, slow- or non-connectivity may be experienced due to capacity limitations of the Internet connection or the content servers. The Navigation Product may allow the User to access and communicate third party servers directly. In such cases use of such servers is for User's own risk entirely. Licensor shall not undertake any liability whatsoever for such servers and services accessed and received directly form third parties.

Server availability. No warranty is provided regarding the availability of the servers enabling the Services. When conducting periodic maintenance and inspection of the servers providing the Service (the "System") upon which Services operate, Licensor (or its Supplier) may temporary suspend all or part of the Services. In the case of any of the following items, Licensor (or its Supplier) may temporarily interrupt all or part of the Service without prior notification to the User:

(i) When conducting emergency maintenance or inspection of the System;

(ii) When it becomes no longer possible to provide operate the System due to an accident such as fire or power outages, natural disasters such as an earthquakes or flooding, war, rioting, industrial disputes, etc.;

(iii) When Licensor deems it necessary to temporarily suspend operation due to unavoidable operational or technical circumstances; or

(iv) When it becomes no longer possible to provide the Service due dto a System failure, etc.

11.4 User acknowledges that the data or information provided through Connected Services is not updated in real-time and may not accurately reflect the real life situation or events.

11.5 The User hereby acknowledges that the Connected Services may only be used at the risk of the User and for the benefit of the User. It is the sole responsibility of the User to provide and maintain a connection to the public Internet network. User accepts that the usage of the Connected Services generates data traffic (up- and downstream) and may result in increased mobile data service fees payable by User.

11.6 Connected Services may provide data, information or materials supplied and/or licensed by third parties to Licensor. For such materials different terms and conditions imposed by such third parties may apply. Applicable third party terms shall be listed in the "About" section of the Navigation Product, in the Device documentation, at a website address indicated in the "About" section or as part of this Agreement. When first using / enabling Connected Services, User accepts compliance with those third party terms and conditions.

11.7. Community Services. Some Connected Services may be based on data and information uploaded by participating individuals (Users or other persons) or a Database created and maintained by a group of such individuals. Such data may not come from a trusted source and may also be intentionally false or misleading, as Licensor or Software Owner does not have any means to control or verify the credibility or accuracy of such data or the individuals providing the data. Therefore User accepts that community type Connected Services must be used with extreme care.

By participating in the community by providing data or any information via the Navigation Product or other means offered by Licensor (e.g. through a website or other software), User shall accept the following:

(a) Licensor is granted a royalty-free right to use the data uploaded, in particular, to modify, display, make available to the public, distribute, copy the data for any purpose;

(b) User warrants that no third party has any rights that would hinder or render impossible the use of the data as set out in (a) above, and that no third party rights are infringed by uploading the data on those conditions;

(c) User indemnifies and holds harmless Licensor from any claim from a third party against Licensor due to violation of its rights regarding the uploaded data.

12. Third party supplier terms

12.1 Third parties supply Services or Database built into the Navigation Product and such third party suppliers may have special terms and conditions of use ("Supplier Terms"), and You as the User accept those terms together with this Agreement.

12.2 Potential third party suppliers (and their Supplier Terms) may have their Database or Service distributed as part of the Navigation Product are listed in the "About" section of the Navigation Product or at a website address indicated in the "About" section.

12.3 Service specific terms:

12.3.1 **Online Search.** By using the built in online search functionality the User hereby acknowledges that during the search process the geographic position of the User's device may be used for providing better search results. Also the search result chosen by the User may be processed anonymously by the Service supllier for statistical purposes.

When using the online search functionality the User may not (i) interfere with the performance of the Service; (ii) complete mass downloads or bulk feeds of any content or information derived from the Service or information acquired therefrom, use benchmarking methods, e.g., robots, to access or analyze the Service or information derived therefrom, and (iii) alter or manipulate the Service or information derived therefrom or modify the default settings operation or look and feel of the Service (including but not limited to displayed logos, terms and notices); or (iv) use the Service or information derived therefrom in connection with any unlawful, offensive, obscene, pornographic, harassing, libelous or otherwise inappropriate content or material, furthermore (v) use search results to generate sales lead information in the form of ASCII or other text-formatted lists of category-specific business listings which (x) include complete mailing address for each business, and (y) contain a substantial portion of such listings for a particular county, city, state, or zip code region.

12.3.2 Traffic. Neither the traffic information nor any derivatives thereof shall be used by the User for (i) historical data purposes (including but not limited performing storage of the data in order to enable the collection or analysis of information); or for (ii) broadcasting or making available to any third party; and (ii) for the purpose of enforcement of traffic laws including but not limited to the selection of potential locations for the installation of speed cameras, speed traps or other speed tracking devices.

Traffic data may not be archived and may only be delivered for Users' near term personal use not to exceed one twenty-four hour period.

13. Third party attribution

Attribution of third parties (e.g. copyright notices) supplying software modules, Databases, Services or other material to the Navigation Product are listed in the "About" section of the Navigation Product or at a website address indicated in the "About" section.

7 Copyright note

The product and the information contained herein are subject to change without prior notification.

This manual may not, in whole or in part, be reproduced or transmitted in any form either electronically or mechanically, including photocopying and recording, without the express written consent of Voxx Electronics Corporation.

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All rights reserved.

GO TO "NAVIEXTRAS.COM" AND TAKE ADVANTAGE OF THE "LATEST MAP GUARANTEE". AVAILABLE FOR 30 DAYS ON YOUR JENSEN NAVIGATION HEAD UNIT AFTER INITIAL INSTALL. YOU CAN ALSO BACK-UP YOUR MAP SD CARD AND GET VALUE ADDED FEATURES SUCH AS RED LIGHT CAMERAS, ETC.

DO NOT RETURN THIS PRODUCT TO THE RETAIL STORE.
FOR TECHNICAL ASSISTANCE, PLEASE CALL: 800-323-4815 OR VISIT OUR WEBSITE: WWW.JENSENMOBILE.COM

P/N:127071017449

Garantía Limitada

NO RETORNE ESTE PRODUCTO A LA TIENDA

Radios del CD o de los Multimedia

Voxx Electronics Corporation ("la Compañía) es una corporación comprometida con la calidad y el servicio al cliente, y se complace en ofrecerle esta Garantía. Por favor, léala completamente y contacte a la Compañía al 1-800-323-4815 por cualquier duda.

¿Quién está cubierto?

La Compañía extiende esta garantía al comprador minorista original de los productos comprados a un distribuidor Voxx autorizado en USA, Puerto Rico o Canadá. Esta garantía no es transferible o asignable. Se requiere prueba de compra en forma de recibo de venta original.

¿Qué está cubierto?

La Compañía garantiza que si este producto o cualquier parte del mismo, bajo uso normal, se prueba que tiene defectos en materiales o mano de obra dentro de los 12 meses desde la fecha de compra original, dichos defectos serán reparados o reemplazados con un producto nuevo o reacondicionado (a opción de la Compañía) sin costos por repuestos o por labor de reparación.

¿Qué no está cubierto?

Esta Garantía *no cubre* lo siguiente:

- Daños ocurridos durante el envío o transporte del producto a la Compañía o al centro de servicio
- Eliminación de estática o ruido de motor
- Defectos en cosmética, partes estructurales decorativas o no operativas
- Corrección de problemas de antena
- Costos incurridos por instalación, retiro o reinstalación del producto
- Daños consecuentes a discos compactos, dispositivos USB, tarjetas multimedia digitales, accesorios o sistemas eléctricos del vehículo
- Daños causados por instalación inadecuada, mal manejo o uso, negligencia, accidentes, fusibles quemados, goteras en la batería, robo o almacenamiento inadecuado.
- Productos cuyo número de serie o código de barra de fábrica o sus marcas hayan sido quitados o borrados
- Daños resultantes de la humedad, temperatura excesiva, condiciones medioambientales extremas o causas naturales externas

Por favor, revea la sección "Cuidados y Mantenimiento" de su Manual de Instalación y Operación para obtener información adicional relacionada al uso adecuado de su producto.

Limitaciones

LA EXTENSIÓN DE LA RESPONSABILIDAD DE LA COMPAÑÍA BAJO ESTA GARANTÍA SE LIMITA A LA REPARACIÓN O REEMPLAZO PROVISTO ARRIBA Y, EN NINGÚN CASO, EXCEDERÁ LA RESPONSABILIDAD DE LA COMPAÑÍA EL PRECIO DE COMPRA PAGADO POR EL COMPRADOR DEL PRODUCTO.

Esta Garantía está en lugar de todas las otras garantías o responsabilidades. CUALQUIER GARANTÍAS IMPLICADAS, INCLUYENDO CUALQUIER GARANTÍA IMPLICADA DE MERCANTIBILIDAD, SERÁ LIMITADA A LA DURACIÓN DE ESTA GARANTÍA ESCRITA. CUALQUIER ACCIÓN POR INCLUMPLIMIENTO DE CUALQUIER GARANTÍA AQUÍ ESPECIFICADA INCLUIDA CUALQUIER GARANTÍA IMPLÍCITA DE MERCANTIBILIDAD DEBE SER LLEVADA A CABO DENTRO DE UN PERIDO DE 24 MESES DESDE LA FECHA DE COMPRA ORIGINAL. IN NINGÚN CASO LA COMPAÑÍA SERÁ RESPONSABLE POR NINGÚN DAÑO CONSECUENTE O INCIDENTAL POR INCLUMPLIMIENTO DE ESTA O CUALQUIER OTRA GARANTÍA, EXPRESA O IMPLICADA, DE NINGUNA FORMA. No se autoriza a ninguna persona o representante a asumir por parte de la Compañía ninguna responsabilidad diferente a la aquí expresada en conexión con la venta de este producto.

Algunos estados no permiten limitaciones sobre el tiempo de duración de una garantía implicada o de la exclusión o limitación de daños incidentales o consecuentes, entonces las limitaciones y exclusiones antes mencionadas pueden no aplicarle a usted. Esta Garantía le da derechos legales específicos y usted también puede tener otros derechos que pueden variar de estado en estado.

Obteniendo el Servicio de Garantía

- Para obtener reparación o reemplazo dentro de los términos de esta Garantía, llame al 1-800-323-4815 por la ubicación de un servicio de garantía en su área.
- Usted debe pagar previamente los costos de envío inicial a la Compañía. La Compañía pagará los costos de envío de retorno de todos los productos en garantía enviados a direcciones dentro de USA, Puerto Rico o Canadá.
- Por favor empaquete el producto de forma segura para evitar daños en el transporte. Recomendamos usar una empresa de transporte que provea servicio de rastreo para prevenir la pérdida de paquetes. Paquetes perdidos o dañados no están cubiertos por esta garantía.
- Provea una descripción detallada del problema o problemas por los cuales usted requiere servicio.

Garantie Limitée

NE RENVOYEZ PAS CE PRODUIT AU MAGASIN

Radios CD ou Multimédia / Unités principales

Voxx Electronics Corporation (la Société) s'engage à la qualité et au service des clients, et est content de vous offrir cette garantie. Nous vous prions de le lire attentivement et prendre contact avec la Société au 1-800-323-4815 avec des questions.

Qui est couvert ?

La Société étend cette garantie à l'acheteur d'origine en détail des produits achetés à un détaillant autorisé d'Voxx aux Etats-Unis, Puerto Rico ou Canada. Cette garantie ne peut pas être transférée ni aliénée. Preuve d'achat est exigé sous forme du récépissé de vente d'origine.

Ce qui est couvert ?

La Société garantit que si ce produit ou une partie de ce produit, sous l'utilisation normale par l'acheteur d'origine, dans des conditions normales, s'avère défectueux en matériel ou en artisanat, dans 12 mois depuis la date d'achat d'origine, de tels défauts seront réparés ou remplacés avec un nouveau produit ou un produit reconditionné (à la seule discrétion de la société) sans frais pour les pièces de rechange ou le travail réparateur.

Ce qui n'est pas couvert ?

Cette garantie *ne* couvre pas le suivant :

- Des dommages survenus lors de la transportation de ce produit à la Société ou à un centre d'entretien.
- Elimination des parasites de voiture ou le bruit du moteur
- Des défauts dans des parties cosmétiques, décoratives ou structurelles non-opératives
- Rectification des problèmes d'antenne
- Le coût de l'installation, de l'enlèvement ou de la réinstallation du produit
- Dommages indirects aux disques compacts, des engins USB, des cartes de média digitales, des accessoires ou le système électrique du véhicule
- Des dégâts survenus à cause de la manipulation mauvaise, l'installation incorrecte, mauvaise utilisation, négligence, des accidents, des fusibles sautés, fuite de la pile, du vol et du stockage incorrect
- Produits soumis à l'enlèvement ou la dégradation du numéro de série d'usine/étiquettes de code à barres ou des marquages.
- Des dégâts survenus à cause de la moisissure, l'humidité, des températures excessives, des conditions environnementales extrêmes ou des causes naturelles externes

Veuillez revoir la section Soin et Entretien de votre Guide d'Opération, pour avoir des informations supplémentaires quant à la bonne utilisation de votre produit.

Limitations

LA MESURE DE LA RESPONSABILITE DE LA SOCIETE SOUS CETTE GARANTIE EST LIMITEE A LA REPARATION OU REMPLACEMENT MENTIONNES CI-DESSUS ET DANS AUCUN CAS LA RESPONSABILITE DE LA SOCIETE N'EXCEDERA LE PRIX D'ACHAT PAYE PAR L'ACHETEUR POUR CE PRODUIT.

Cette garantie tient lieu de toute autre garantie ou responsabilité expresses. TOUTE GARANTIE IMPLIQUEE, Y COMPRISE UNE GARANTIE IMPLIQUEE DE MARCHANDABILITE , SERA LIMITEE A LA DUREE DE CETTE GARANTIE ECRITE. TOUTE ACTION POUR RUPTURE D'UNE GARANTIE QUELCONQUE SOUS LA PRESENTE, Y COMPRIS TOUTE GARANTIE IMPLIQUEE DE MARCHANDABILITE DOIT ÊTRE PORTEE DANS UNE PERIODE DE 24 MOIS DEPUIS LA DATE D'ACHAT D'ORIGINE. EN AUCUN CAS LA SOCIETE NE SERA RESPONSABLE POUR TOUT DOMMAGE INDIRECT OU ACCESSOIRE POUR RUPTURE DE CETTE GARANTIE OU TOUTE AUTRE GARANTIE, EXPRESSE OU IMPLIQUEE. Aucune personne ni un représentant n'est autorisée d'assumer de la part de la société une responsabilité autre que celle exprimée ici relatif à la vente de ce produit.

Certains états ne permettent pas de limitations sur la durée d'une garantie impliquée ou sur l'exclusion ou la limitation des dommages indirects et accessoires, tels que les informations ci-dessus ne s'appliquent pas à vous. Cette garantie vous donne des droits légaux spécifiques et vous pouvez aussi jouir d'autres droits qui varient d'état à l'état.

Obtenir le service de garantie

- Pour obtenir la réparation ou le remplacement dans les termes de cette garantie, appelez 1-800-323-4815 pour avoir l'emplacement d'une station de garantie qui dessert votre région.
- Si le produit est envoyé pour un service de garantie vous devez payer les frais de transportation de départ. La Société payera la transportation de retour pour tout produit sous garantie si le produit est retourné à une adresse située aux Etats-Unis, Puerto Rico ou Canada.
- Assurez-vous que le produit soit bien emballé pour éviter des accidents pendant la transportation. Nous recommandons un transporteur qui fourni un service de dépistage pour éviter la perte des paquets. Des paquets perdus ou endommagés ne sont pas couverts par cette garantie.
- Fournissez une description détaillée des problèmes que vous voulez faire résoudre par le service de garantie.

Limited Warranty

CD or Multimedia Radios/Headunits

DO NOT RETURN THIS PRODUCT TO THE STORE

Voxx Electronics Corporation ("the Company") is committed to quality and customer service, and are pleased to offer you this Warranty. Please read it thoroughly and contact the Company at 1-800-323-4815 with any questions.

Who is covered?

The Company extends this warranty to the original retail purchaser of products purchased through an authorized Voxx retailer in the U.S.A., Puerto Rico or Canada. This warranty is not transferable or assignable. Proof of purchase is required in the form of an original sales receipt.

What is covered?

The Company warrants that should this product or any part thereof, under normal use, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced with a new or reconditioned product (at the Company's option) without charge for parts and repair labor.

What is not covered?

This Warranty *does not* cover the following:

- Damage incurred during shipping or transporting the product to the Company or a service center
- Elimination of car static or motor noise
- Defects in cosmetic, decorative or non-operative structural parts
- Correction of antenna problems
- Costs incurred for installation, removal or reinstallation of the product
- Consequential damage to compact discs, USB devices, digital media cards, accessories or vehicle electrical systems
- Damage caused by improper installation, mishandling, misuse, neglect, accident, blown fuse, battery leakage, theft or improper storage
- Products whose factory serial number/bar code label(s) or markings have been removed or defaced
- Damage resulting from moisture, humidity, excessive temperature, extreme environmental conditions or external natural causes

Please review the "Care and Maintenance" section of your Installation and Operation Manual for additional information regarding the proper use of your product.

Limitations

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 24 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Obtaining Warranty Service

- To obtain repair or replacement within the terms of this Warranty, call 1-800-323-4815 for the location of a warranty station serving your area.
- You must prepay the initial shipping charges to the Company. The Company will pay the return shipping charges for all warranteed products returned to an address within the U.S.A., Puerto Rico or Canada.
- Please package the product securely to avoid shipping damage. We recommend using a carrier that provides tracking service to prevent lost packages. Lost or damaged packages are not covered by this warranty.
- Provide a detailed description of the problem(s) for which you require service.