

# 2011 Full-Size Truck Navigation System

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## Introduction



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"Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

The information in this manual supplements the owner manual. This manual includes the latest information available at the time it was printed. We reserve the right to make changes in the product after that time without notice.

For vehicles first sold in Canada, substitute the name General Motors of Canada Limited for Chevrolet Motor Division or GMC whenever it appears in this manual.

Keep this manual with the owner manual in the vehicle, so it will be there if it is needed. If the vehicle is sold, leave this manual in the vehicle.

### **Canadian Vehicle Owners (Propriétaires des Véhicules Canadiens)**

A French language copy of this manual can be obtained from your dealer or from:

On peut obtenir un exemplaire de ce guide en français auprès du concessionnaire ou à l'adresse suivante:

Helm, Incorporated  
P.O. Box 07130  
Detroit, MI 48207

1-800-551-4123  
Numéro de poste 6438 de langue  
française  
[www.helminc.com](http://www.helminc.com)

## Overview

Read this manual thoroughly to become familiar with how the navigation system operates.

The navigation system includes navigation and audio functions.

While entering the vehicle or when turning the vehicle off, some DVD Map Disc noise is normal.

Keeping your eyes on the road and your mind on the driving is important for safe driving.

The navigation system has built-in features intended to help keep your eyes on the road and mind on the drive. Some features may be disabled while driving. Note that these functions will be grayed-out. A grayed-out function indicates it is not available when the vehicle is moving.

All functions are available when the vehicle is parked. Do the following before driving:

- Become familiar with the navigation system operation, control buttons on the faceplate, and touch-sensitive screen buttons of the navigation system.
- Set up the audio by presetting favorite stations, setting the tone, and adjusting the speakers.
- Set up the navigation features before beginning driving, such as entering an address or a preset destination.
- Set up your phone numbers in advance so they can be called easily with the press of a single button or a single voice command (for navigation systems equipped with phone capability).

### WARNING

Taking your eyes off the road too long or too often while using the navigation system could cause a crash resulting in injury or death to you or others. Focus your attention on driving.

### WARNING

Avoid looking too long or too often at the moving map on the navigation screen. This could cause a crash and you or others can be injured or killed. Use the turn-by-turn voice guidance directions whenever possible.

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Use the navigation system to:

- Plan a route.
- Select a destination using various methods and choices.
- Follow turn-by-turn route and map guidance with voice prompts, only if permitted by traffic laws, controls, and conditions.

You should always be alert and obey traffic and roadway laws and instructions, regardless of the guidance from the navigation system. Because the navigation system uses street map information that does not include all traffic restrictions or the latest road changes, it may suggest using a

road that is now closed for construction or a turn that is prohibited by signs at the intersection. Because the system uses limited information, you must always evaluate whether following the system's directions is safe and legal for the current conditions.

When the navigation system is turned on, a screen may appear with the information below, and you must read and acknowledge the information it contains.

### **WARNING**

Taking your eyes off the road for extended periods could cause a crash resulting in injury or death to you or others.

To help avoid a crash in which you or others could be killed:

- Always concentrate on your driving first by keeping your eyes and mind on the road, and your hands on the wheel.
- Follow system directions only if permitted by traffic laws, controls, and conditions.
- Before using this system, read the owner's manual and learn how it operates.
- Some system controls cannot be used when the vehicle is moving.

After you acknowledge the start up information you will be able to access the NAV (navigation) and DEST (destination) functions. Once accessed, you can enter or delete information in the navigation system or access other functions. See instructions later in this section.

#### CAUTION

To help avoid a crash in which you or others could be injured or killed:

- Always concentrate on your driving first by keeping your eyes and mind on the road, and your hands on the wheel.
- Follow system directions only if permitted by traffic laws, controls, and conditions.
- Before using this system, read the owner manual and learn how it operates.

Some system controls cannot be used when vehicle is moving.

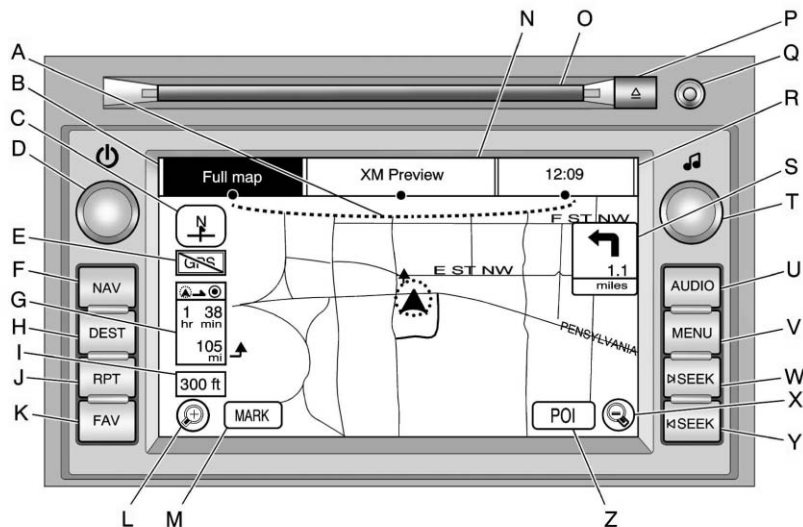
OK

Every fifty times the vehicle is started and the navigation system is turned on, the Caution screen

appears. After reading the caution, select OK to load the map DVD information. If OK is not selected, all control buttons except for NAV and DEST can be accessed. You can also press NAV to have this Caution screen appear.

When getting started, set the navigation system to your preference or delete information you may have entered using various options.






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Screen Shown with Map Disc Inserted

- A. DVD Map Disc
- B. FULL MAP Screen Button
- C. North Up/Heading Up Symbol
- D. (Power/Volume)
- E. No GPS Signal Symbol
- F. NAV (Navigation)
- G. Distance and Time to Distance Symbol
- H. DEST (Destination)
- I. Map Scale
- J. RPT (Repeat)
- K. FAV (Favorite)
- L. (Zoom In) Screen Button
- M. Mark Screen Button
- N. Source (AM, FM, XM, CD, etc.) Screen Button



- O. Audio CD/Video DVD Slot
- P.  (Audio CD/Video DVD Eject)
- Q. Auxiliary Input Jack
- R. Clock Screen Button
- S. Distance to Next Turn Symbol
- T.  (Tune/Sound)
- U. AUDIO
- V. MENU
- W.  SEEK
- X.  (Zoom Out) Screen Button
- Y.  SEEK
- Z. POI (Point of Interest) Screen Button

## Language — English/Metric

To change the language of the navigation screens, see “Driver Information Center (DIC)” in the vehicle's owner manual index for more information.

To change the navigation screens from English or metric, see “DIC Operation and Displays” in the vehicle's owner manual index for more information.

## Deleting Personal Information

This navigation system can record and store personal information such as names and addresses. At times, such as when you are disposing of your vehicle, you may want to delete this information. See “Edit Address Book — Edit/View” under *Navigation Menu* on page 52 for deleting information from the address book.

## Limit Features While Driving

The navigation system may have this feature.

Press the Limit Features While Driving screen button to turn on and off the ability to limit functions while driving. When this screen button is highlighted, the following functions are limited while driving:



- Music Navigator Scrolling
- Radio Category Scrolling
- Navigation Menu Scrolling and some functions

See “Category” under *AM-FM Radio* on page 14 for more information. See “From Map” under *Destination* on page 65 for more information.

Some functions will remain limited regardless of the setting.

### Storing Radio Station Presets

To set preset radio stations:

1. Press  to turn the system on.
2. Press the AUDIO control button and select the desired band (AM, FM1, FM2, XM1, or XM2 (if equipped)).
3. Use the  knob or the SEEK arrows to tune to the desired station.
4. Press and hold one of the five preset screen buttons, at the bottom of the screen, until you hear a beep or see the station displayed on the selected preset button.
5. Repeat the steps for each preset.

See “Storing Radio Station Presets” under *AM-FM Radio* on page 14 for more information.

### Setting the Clock

To set the time:


1. Press the clock button located in the upper right corner of the screen.
2. Press Set.
3. Press the Hours and Minutes – and + signs to decrease and to increase the time. See “Setting the Clock” under *Navigation Menu* on page 52 for more information.

### Setting the Search Area, Entering an Address and Point of Interest, and Storing Preset Destinations

Before entering an Address, Point of Interest, Home, or Preset Destination, select the appropriate region that contains the final destination. Your vehicle must be in P (Park) to perform this operation.

### Setting the Search Area

To set the search area:


1. If the radio is already on with a map disc inserted, skip to Step 5.
2. Press  to turn the system on.
3. Insert the DVD map disc. See “Installing the Map DVD” under *Maps* on page 43 for more information.
4. A caution may appear. Press OK to proceed.
5. Press the DEST control button.
6. Press the Change Search Area screen button.
7. Select the appropriate region numbered screen button that contains your final destination.
8. Press Back to return to the Destination Entry menu. See *Destination* on page 65 for more information.


## Entering an Address

If you are having trouble finding a city or a street name:

- Input the street name first instead of the city name, or vice versa.
- Input more characters or reduce the amount of characters to reduce or expand the available options.



To set a destination by entering a city name:


1. If the radio is already on with a map disc inserted, skip to Step 5.
2. Press  to turn the system on.
3. Insert the DVD map disc. See "Installing the Map DVD" under *Maps on page 43* for more information.

4. A caution may appear. Press OK to proceed.
5. Press the DEST control button.
6. Press the  (Address Entry) screen button.
7. The City name category will automatically be selected for entry. Start entering the city name.

If five or fewer names are available for the entered characters, a list displays. If more than five are available, there will be a screen button with a number in it, it represents the number of available cities. Select this button to view the list and select a city.

8. Once a city is selected the street name category will automatically be selected for entry. Start entering the street name.

Do not enter directional information or street type, and use the space symbol screen button (  ) between street or city names. For example, the street name N. Royal Oak Rd. should be entered as royal  oak.

Use the backspace (  ) screen button if an incorrect character has been entered.

If five or fewer names are available, a list displays. If more than five are available, there will be a screen button with a number in it, it represents the number of available streets. Select this button to view the list.

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9. Select the street name with the correct prefix from the list (Dr., Ln., St., etc.).
10. Once a street has been selected, the numeric keyboard displays, allowing you to enter the house number. The system will display the house number range that is available for the street.
11. Select the Go screen button. A map screen, with the destination marked, will appear.
12. Select the route preference (Fastest, Shortest, or Other). The system will calculate and highlight the route.
13. Select Start Guidance. You are now ready to start your route.

See “Address Entry” under *Destination on page 65* for more information.

### Entering a Point of Interest (POI)

To set a destination by entering a Point of Interest (POI):

1. If the radio is already on with a map disc inserted, skip to Step 5.
2. Press  to turn the system on.
3. Insert the DVD map disc. See “Installing the Map DVD” under *Maps on page 43* for more information.
4. A caution may appear. Press OK to proceed.
5. Press the DEST control button.
6. Press  (Point of Interest).


7. Enter the specific title of the POI in the POI name space (e.g. Washington Monument).

If five or fewer names are available, a list displays. If more than five are available, there will be a screen button with a number in it, it represents the number of available POIs. Select this button to view the list.

8. Select the Go screen button. A map screen, with the destination marked, will appear.
9. Select the route preference (Fastest, Shortest, or Other). The system will calculate and highlight the route.
10. Select Start Guidance. You are now ready to start your route.

See “Point of Interest (POI)” under *Destination on page 65* for more information.

### Storing Preset Destinations

1. If the radio is already on with a map disc inserted, skip to Step 5.
2. Press  to turn the system on.
3. Insert the DVD map disc. See "Installing the Map DVD" under *Maps on page 43* for more information.
4. A caution may appear. Press OK to proceed.
5. Press the DEST control button.
6. Enter a destination. See *Destination on page 65* for information on how to enter a destination.
7. Press Mark from the map screen to add the current final destination as a preset destination.

The address book screen will appear.


8. Select the Name screen button. An alpha-keyboard will display. Enter the name.
9. Press and hold one of the screen buttons at the bottom of the screen until a pop-up confirmation displays.

The name will appear in that preset destination screen button and is now available to select from the Destination Entry screen. See "Using Your Stored Preset Destinations" next in this section to select it as a destination.

See *Destination on page 65* for more information on how to add preset destinations.

### Using Your Stored Preset Destinations

These destinations are available for selection while driving.

1. If the radio is already on with a map disc inserted, skip to Step 5.
2. Press  to turn the system on.
3. Insert the DVD map disc. See "Installing the Map DVD" under *Maps on page 43* for more information.
4. A caution may appear. Press OK to proceed.
5. Press the DEST control button.
6. Select one of the available preset destination screen buttons. A map screen, with the destination marked, will appear.

7. Select the route preference (Fastest, Shortest, or Other). The system calculates and highlights the route.
8. Select Start Guidance. You are now ready to start your route.

See *Destination on page 65* for more information.


### Canceling Guidance

Guidance will be canceled once you arrive at your final destination. To cancel guidance prior to arrival at the final destination:

1. Press the DEST control button.
2. Press the Cancel Guidance screen button.

### Guidance Volume

To adjust the volume of voice guidance prompts:

1. Press MENU to enter the menu options, then press it repeatedly until Nav is selected or press the Nav screen button.
2. Press  (Voice Prompt).
3. Press the + or – buttons to increase or to decrease the volume of the voice prompts.

See “Voice Prompt” under *Navigation Menu on page 52* for more information.

### Cleaning the Display Screen

Use a soft clean cotton cloth dampened with clean water.

## Radio

### AM-FM Radio

**Notice:** Before adding any sound equipment to the vehicle, such as an audio system, CD player, CB radio, mobile telephone, or two-way radio, make sure that it can be added by checking with your dealer. Also, check federal rules covering mobile radio and telephone units. If sound equipment can be added, it is very important to do it properly. Added sound equipment can interfere with the operation of the vehicle's engine, radio, or other systems, and even damage them. The vehicle's systems can interfere with the operation of sound equipment that has been added.

**Notice:** The chime signals related to safety belts, parking brake, and other functions of the vehicle operate through the navigation system. If that equipment is replaced or additional equipment is added to the vehicle, the chimes may not work. Make sure that replacement or additional equipment is compatible with the vehicle before installing it. See “Accessories and Modifications” in the Index of the vehicle's owner manual.

### Playing the Radio

#### (Power/Volume):

1. Press to turn the audio system on and off.
2. Turn to increase or to decrease the volume.

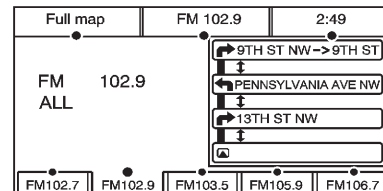
#### (Tuning/Sound):

1. Turn to go to the next or previous frequency.
2. Press to display the Sound menu. See “Sound Menu” later in this section.

#### AUDIO:

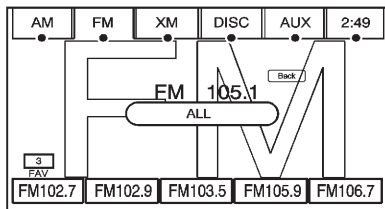
1. Press to display the audio screen.
2. Press to switch between AM, FM, or XM, if equipped, disc, or AUX (Auxiliary), or press the screen button. See *AM-FM Radio on page 14*, *CD/DVD Player on page 22*, and *Auxiliary Devices on page 41* for more information.

### Finding a Station



### FM Source Shown, Other Sources Similar

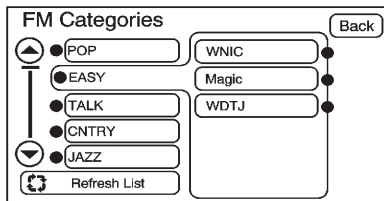
If viewing a map screen, press the source screen (AM, FM, XM, CD, etc.) button. The display will split between the audio screen and the map screen. All station-changing functions can be performed from this screen.



### FM Source Shown, Other Sources Similar

If you do not want to view a split screen or you are not on a map screen, press AUDIO.

**AM/FM/XM:** Press the source (AM, FM, or XM, if equipped) screen button or press AUDIO repeatedly until the desired source is highlighted.



### FM Source Shown, Other Sources Similar

#### Category:

1. Press this button, located in the middle of the screen, to receive a list of all of the selected band stations in the area.
2. Use the up and down arrows to scroll the frequencies.
3. Press on the desired frequency.

XM lists will also contain a category to select and the stations or channels that pertain to the category. For XM, press the left and right arrows to change categories. The station information appears on the display. See “Radio Menu” later in this section to add and remove XM categories from the category list. When listening to XM stations, you will be able to select all of the categories when using the right and left arrows on the main audio screen. The categories, when removed, will not be enabled to select from the category list screen.

FM lists may also contain a category to select if stations in your area support Radio Data Systems (RDS).



**Refresh List:** Press to refresh the list of stations.

When viewing a map screen, the name of the station or channel will appear on the display.


**SEEK / SEEK:**

1. Press the arrows to go to the next or previous station and stay there.
2. To scan stations, press and hold either arrow for more than two seconds. The radio goes to a station, plays for a few seconds, then goes to the next station.
3. To stop scanning, press either arrow again.

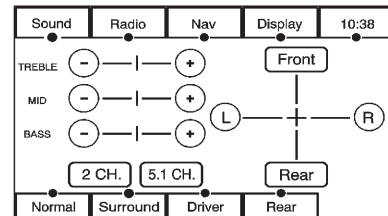
## Storing Radio Station Presets

This feature allows you to store up to 30 preset stations. See “Number of Preset Pages” under “Radio Menu” later in this section for more information. You can mix AM, FM, and XM (if equipped).

To store presets:

1. Press  to turn the system on.
2. If viewing a map screen, press the source screen button, press AUDIO, or press FAV (favorite).
3. Select the band.
4. Seek, scan, or tune to the desired station, to select the station.
5. Press and hold one of the preset screen buttons for more than two seconds or until you hear a beep.
6. Repeat the steps for each preset.

## Sound Menu



**Digital Signal Processing (DSP)** shown, Equalization similar

**♪ (Sound Menu):** Press this knob or press MENU to access the Sound menu to adjust the treble, midrange, bass, fade, balance, and equalization or Digital Signal Processing (DSP), if equipped with the Bose® sound system.

### Setting the Tone

**TREBLE:** Press + or – to increase or decrease the treble. If a station is weak or noisy, decrease the treble.

**MID (Midrange):** Press + or to increase or decrease the midrange.

**BASS:** Press the + or – to increase or decrease the bass.

### Adjusting the Speakers

**L/R (Left/Right) (Balance):** To adjust the balance between the left and the right speakers, press and hold the L or R screen buttons. To center the balance and the fade, press the center, where the two lines meet.

**Front/Rear (Fade):** To adjust the fade between the front and the rear speakers, press and hold the Front or Rear screen buttons. To center the balance and the fade, press the center, where the two lines meet.

### Automatic Equalization

If the system has automatic equalization, you can select customized equalization settings designed for Talk. Press the Talk screen button to hear the change in sound. The system will save the setting for each source.

To not use the automatic equalization setting, press any of the screen buttons that will change the treble, midrange, bass, balance, or fade. This will take the system out of the equalization setting so that you can create your own sound.

### Digital Signal Processing (DSP)

If the system has Digital Signal Processing (DSP), it is used to provide a choice of four different listening experiences. DSP can be used while listening to the audio system. The type of DSP selected is displayed on the status line.

Select from the following DSP settings:

**Normal:** Select to adjust the audio to be in normal mode. This provides the best sound quality for all seating positions.

**Surround (Centerpoint®):** Select to turn on Bose Centerpoint® signal processing circuitry. Centerpoint® produces a full vehicle surround sound listening experience from a CD, MP3/WMA, DVD, or XM stereo digital audio source and delivers five independent audio channels from the conventional two channel stereo recordings. This is not available for AM or FM.

**Driver:** Select to adjust the audio to give the driver the best possible sound quality.

**Rear:** Select to adjust the audio to give the rear seat occupants the best possible sound quality.

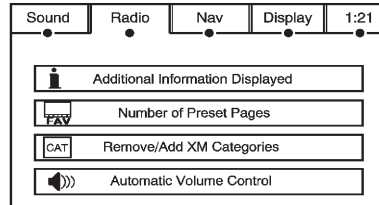
The 2 CH and 5.1 CH buttons are available only when a 5.1 CH disc is available and RSA is off.

**2 CH (Channel):** Select to enhance surround sound. The Surround screen button must be selected to select the 2 CH screen button.

**5.1 CH (Channel):** Select when listening to a DVD, to give a full affect of surround sound listening. The Surround screen button must be selected to select the 5.1 CH screen button.

**Downmix:** If a 5.1CH disc is playing, and the 2 CH screen button is selected or RSA is turned on, the system will downmix the audio from 5.1 CH to 2 CH if this feature is supported on the disc.

## Radio Menu



Press MENU to enter the menu screen, then press it repeatedly until Radio is selected or press the Radio screen button to make changes for radio information displayed or to limit features while driving, number of preset pages, XM categories, and Automatic Volume Control or Bose® AudioPilot®.

## Additional Information Displayed

The navigation system may have this feature.

Press **i** (Additional Information Displayed) to turn station, channel, CD, and MP3 information on or off.

Press YES to receive information, when it is available, for the following; FM: RDS category name and radio text, XM: Song Title and Artist Name, CD: CD text, MP3: tag information.

Press NO to receive no information.

### Limit Features While Driving


The navigation system may have this feature.

Press the Limit Features While Driving screen button to turn on and off the ability to limit functions while driving. When this screen button is highlighted, the following functions will be limited while driving:


- Music Navigator Scrolling
- Radio Category Scrolling
- Navigation Menu Scrolling and some functions

See “Category” in this section for more information. See “From Map” under *Destination on page 65* for more information.

### Number of Preset Pages

Press  (Number of Preset Pages) to change the number of preset pages, 1 through 6. Each preset page can contain five preset stations. Press on the desired numbered screen button.

### Remove/Add XM Categories


Press  (Remove/Add XM Categories) to remove or add XM categories when selecting XM categories from the category list screen. The list of XM categories will appear on the screen. Use the arrows to scroll through the list. The categories to remove will be highlighted and the categories to add will be dark in color. Press on the category that you would like to add or remove. Press Restore All Categories to add all categories that have been removed.

### Automatic Volume Control or Bose AudioPilot®

#### Automatic Volume Control:

With automatic volume control, your audio system adjusts automatically to make up for road and wind noise as you drive.

To use Automatic Volume Control:

1. Set the volume at the desired level.
2. Press MENU to enter the menu screen, then press it repeatedly until Radio is selected or press the Radio screen button.
3. Press  to access the Speed Compensated Volume screen.
4. Press the Low, Medium, or High screen buttons. Each higher setting allows for more compensation at faster vehicle speeds.

Then, as you drive, automatic volume control automatically increases the volume, as necessary, to overcome noise at any speed. The volume level should always sound the same to you as you drive. To turn automatic volume control off, press OFF.

## Radio Data System (RDS)

The audio system has a Radio Data System (RDS). RDS features are available for use only on FM stations that broadcast RDS information. With RDS, the radio can do the following:

- Seek to stations broadcasting the selected type of programming
- Receive announcements concerning local and national emergencies
- Display messages from radio stations

This system relies on receiving specific information from these stations and will only work when the information is available. In rare cases, a radio station may broadcast incorrect information that will cause the radio features to work improperly. If this happens, contact the radio station.

The RDS system is always on. When information is broadcast from the FM station you are listening to, the station name or call letters will be displayed on the audio screen. RDS may provide a program type (PTY) for current programming and the name of the program being broadcast.

## Satellite Radio

### **XM™ Satellite Radio Service**

XM™ is a satellite radio service that is based in the 48 contiguous United States and 10 Canadian provinces. XM Satellite Radio has a wide variety of programming and commercial-free music, coast-to-coast, and in digital-quality sound. During your trial or when you subscribe, you will get unlimited access to XM Radio Online for when you are not in the vehicle.

A service fee is required to receive the XM service. For more information, contact XM at [www.xmradio.com](http://www.xmradio.com) or call 1-800-929-2100 in the U.S. and [www.xmradio.ca](http://www.xmradio.ca) or call 1-877-438-9677 in Canada.

When XM™ is active, the channel name and number, song title, and artist will display on the screen.

### **XM™ Radio Messages**

See “XM™ Radio Messages” in the vehicle’s owner manual” for a list of possible XM messages.

## Audio Players

### CD/DVD Player

#### Playing an Audio CD

The player can be used for CD and MP3. If your vehicle has RSE, the player can be used for CD, MP3, DVD audio, and as a DVD video player. See “Playing a DVD” later in this section.

With the ignition on, insert a CD partway into the slot, label side up. The player pulls it in and the CD should begin playing. While playing a CD, the navigation system is available. If you insert a CD with the system off and the ignition on, it starts to play.

When you insert a CD, the CD tab displays.

If you turn off the ignition or radio with a CD in the player, it stays in the player. When you turn on the ignition or radio, the CD will start playing where it stopped, if it was the last selected audio source.

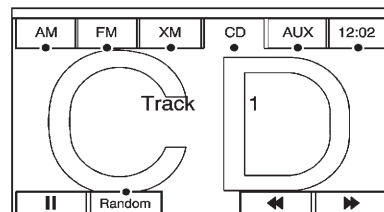
As each new track starts to play, the track number appears on the display.

The CD player can play the smaller 8cm (3 inch) single CDs with an adapter ring. Full-size CDs and the smaller CDs are loaded in the same manner.

If an error appears on the display, see “CD/DVD Messages” later in this section.

If viewing a map screen, press the CD screen button. The display splits between the audio screen and the map screen. If you do not want to view a split screen or you are not on a map screen, press the AUDIO

control button, then press it again until CD is selected, or press the CD screen button.



#### || / ► (Pause/Play):

1. Press to pause the CD. This button will then change to the play button.
2. Press the play button to play the CD.

**RANDOM:**

1. Press to hear the tracks in random, rather than sequential, order.
2. Press it again to turn off random play.

**◀ (Rewind):**

1. Press and hold to rewind quickly through a track selection. You will hear sound at a reduced volume.
2. Release to stop rewinding. The display will show the elapsed time of the track.

**▶▶ (Forward):**

1. Press and hold to fast forward quickly through a track selection. You will hear sound at a reduced volume.
2. Release to stop fast forwarding. The display will show the elapsed time of the track.

**↔ SEEK / ⏮ SEEK:**

1. Press the right arrow to go to the next track.
2. Press the left arrow to go to the start of the current track, if more than five seconds have played. If either arrow is pressed more than once, the player continues moving backward or forward through the CD. The sound will mute while seeking.

You can also turn the tune knob to seek to the next or previous track.

When playing an audio CD, if your vehicle has RSE, the rear seat operator can power on the RSE video screen and use the remote control to navigate through the tracks on the CD.

**Using an MP3 CD****MP3 Format**

There are guidelines that must be met, when creating an MP3 disc. If the guidelines are not met when recording a CD-R(W), the CD may not play. The guidelines are (Supported Sampling rate and Bit rates will vary based on CD or DVD Navigation Systems):

- Sampling rate: 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, and 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, and 192 kHz.
- Bit rates supported: 8, 16, 24, 32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, and 320 kbps.

- ID3 tag information is displayed by the radio if it is available. The radio supports ID3 tag information v1.0 or v1.1. The radio will display a filename, song name, artist name, album name, and directory name.
- Maximum 32 characters, including spaces, in a file or folder name.
- Maximum number of folders is 253 with a maximum hierarchy of eight folders.
- Create a folder structure that makes it easy to find songs while driving. Organize songs by albums using one folder for each album. Each folder or album should contain 18 songs or less.
- It is recommended that there is a maximum of 192 files on a disc.

- The files can be recorded on a CD-R or CD-RW with a maximum capacity of 700MB.
- DVD with MP3 are not playable on this system.

### Root Directory

The root directory will be treated as a folder. If the root directory has compressed audio files, the directory will be displayed as ROOT. All files contained directly under the root directory will be accessed prior to any root directory folders. However, playlists (Px) will always be accessed before root folders or files.

### Empty Directory or Folder

If a root directory or a folder exists somewhere in the file structure that contains only folders/subfolders and no compressed files directly beneath them, the player advances to the next folder in the file structure that contains compressed audio files and the empty folder will not be displayed or numbered.

### No Folder

When the CD contains only compressed files, the files are located under the root folder. The next and previous folder functions have no function on a CD that was recorded without folders or playlists. When displaying the name of the folder the radio displays ROOT.

When the CD contains only playlists and compressed audio files, but no folders, all files are located under the root folder. The left and right arrows search playlists (Px) first and then go to the root folder. When the radio displays the name of the folder the radio displays ROOT.



### Order of Play

Tracks are played in the following order:

- Play begins from the first track in the first playlist and continues sequentially through all tracks in each playlist. When the last track of the last playlist has played, play continues from the first track of the first playlist.
- If the CD does not contain any playlists, then play begins from the first track under the root directory. When all tracks from the root directory have played, play continues from files according to their numerical listing. After playing the last track from the last folder, play begins again at the first track of the first folder or root directory.

When play enters a new folder, the display does not automatically show the new folder name. The new track name appears on the display.

### File System and Naming

The song name that displays is the song name contained in the ID3 tag. If the song name is not present in the ID3 tag, then the radio displays the file name without the extension (such as .mp3) as the track name.

Track names longer than 32 characters or four pages, are shortened. The display does not show parts of words on the last page of text and the extension of the filename does not display.

### Preprogrammed Playlists

Preprogrammed playlists which were created by WinAmp™, MusicMatch™, or Real Jukebox™ software can be accessed. However, they cannot be edited. These playlists are treated as special folders containing compressed audio song files.

### Playing an MP3

With the ignition on, insert a CD partway into the slot, label side up. The player pulls it in. The system may take some time to read the MP3 disc. While playing a CD, the navigation system is available. If you insert a CD with the system off and the ignition on, it starts to play.

When you insert a CD, the CD tab displays.

If the ignition or radio is turned off with a CD in the player, it stays in the player. When the ignition or radio is turned on, the CD starts playing where it stopped, if it is the last selected audio source.

As each new track starts to play, the track number appears on the display.

If an error appears on the display, see "CD/DVD Messages" in this section.

If viewing a map screen, press the CD screen button. The display splits between the audio screen and the map screen. If you do not want to view a split screen or you are not on a map screen, press AUDIO, then it again until CD is selected or press the CD screen button.



### II / ► (Pause/Play):

1. Press to pause the CD. This button then changes to the play button.
2. Press the play button to play the CD.

### RANDOM:

1. Press to hear the disc played in random (tracks and folders) order.
2. Press it to turn off random play.

### ◀ (Rewind):

1. Press and hold to rewind quickly through a track selection. You will hear sound at a reduced volume.
2. Release to stop rewinding. The display shows the elapsed time of the track.

### ▶▶ (Forward):

1. Press and hold to fast forward quickly through a track selection. You will hear sound at a reduced volume.
2. Release to stop fast forwarding. The display shows the elapsed time of the track.

### ◀▶ (Folder):

1. Press the arrows to go to the previous or next folder on the disc.
2. Press the middle screen button, with the folder name, to sort the MP3 by folder and file name. It may take a few minutes for the system to sort the MP3.

**Sort By:** Press this screen button to organize the MP3 to enable you to sort the MP3 by artist, album, and genre. It may take a few minutes for the system to sort the MP3.

### ⏮ SEEK / ⏭ SEEK:

1. Press the right arrow to go to the next track.
2. Press the left arrow to go to the start of the current track, if more than five seconds have played. If either arrow is pressed more than once, the player will continue moving backward or forward through the CD. The sound will mute while seeking.

You can also turn the tune knob to seek to the next or previous track.

When playing an MP3, if your vehicle has RSE, the rear seat operator can power on the RSE video screen and use the remote control to navigate through the MP3.

### Playing a DVD

The player can be used for DVD audio and DVD video.

With the ignition on, insert a DVD partway into the top visible slot, label side up. The player pulls it in and the DVD should begin playing. While playing a DVD, the navigation system is available. If you insert a DVD with the system off and the ignition on, it starts to play.

This feature will not operate on the navigation screen unless the vehicle is in P (Park).

The Rear Seat Entertainment (RSE) video screen starts playback of the DVD when a DVD has been inserted into the navigation system. See "Rear Seat Entertainment System" in the Index of your vehicle's owner manual for more information.

The DVD player is only compatible with DVDs of the appropriate region code that is printed on the jacket of most DVDs.

The DVD slot is compatible with most audio CDs, CD-R, CD-RW, DVD-Video, DVD-Audio, DVD-R/RW, DVD+R/RW media along with MP3 and WMA "un-protected" formats.

There are three ways to play a DVD:

- Once a DVD is inserted, the system automatically starts play of the DVD.
- If you are on a map screen, press the DVD screen button.
- Press the AUDIO control button, then press the DVD screen button.

When a DVD is loaded in the DVD player, the rear seat operator can power on the RSE video screen and use the remote control to navigate through the DVD.

### ⏻ (Power/Volume):

1. Press to turn the system on and off.
2. Turn to increase or decrease the volume of the audio system.
3. Press and hold for more than two seconds to turn the navigation system, RSE, and RSA off.

If an error appears on the display, see “CD/DVD Messages” in this section.

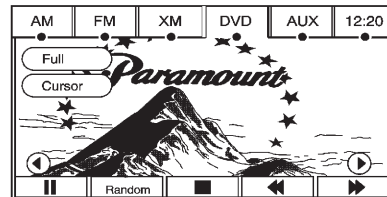
### Rear Seat Entertainment (RSE)

If the Rear Seat Entertainment (RSE) video screen is playing a DVD movie and the ignition is turned to LOCK and then back to ACCESSORY, RUN, or START, the RSE screen does not turn back on automatically. To view the movie on the RSE video screen:

- Press ⏻ located on the remote control, then press ▶, to continue the movie from where it was stopped.
- Press ▶ screen button on the navigation screen, to continue the movie from where it was stopped.
- Eject and replace the DVD movie from the navigation system, which starts the movie from the beginning.

### DVD Menu Options

Once a DVD starts to play, the menu options automatically appears. To display the menu choices while a DVD is playing in full screen, press anywhere on the screen.



There are three pages of menu options. Press the arrows to use all of the menu screen buttons. Menu options are available when they are highlighted. Some menu options are only available when the DVD is not playing.

**Full:** Press to remove all menu options from the display. Press anywhere on the screen to display the menu options.

**Cursor:** Press to access the cursor menu. The arrows and other cursor options allow you to navigate the DVD menu options. The cursor menu options are only available if a DVD has a menu.

**◀, ▶, ▲, ▼ (Arrow Buttons):** Use these arrow buttons to move around the DVD menu.

**Enter:** Press to select the highlighted option.

**Return:** Press to go back to the previous DVD menu.

**Back:** Press to go back to the main DVD display screen.

**Move:** Press to move the cursor buttons back and forth from the bottom-right corner to the top-left corner of the screen.

**⏸ / ▶ (Pause/Play):** Press to pause the DVD. This button will then change to the play button. Press to play the DVD.

#### RANDOM:

1. Press to hear the tracks in random, rather than sequential order.
2. Press it again to turn off random play. This button is not available for DVD video.

#### ■ (Stop):

1. Press to stop play of the DVD.
2. Press to continue playing the DVD from where the DVD was stopped.
3. Press twice to return to the beginning of the DVD.

**◀ (Rewind):** Press and hold to rewind through the scene, chapters, and titles. This button may not work when the DVD is playing the copyright information or the previews.

**▶▶ (Forward):** Press and hold to advance rapidly through the scene, chapters, and titles. This button may not work when the DVD is playing the copyright information or the previews.

**Top Menu:** Press to display the first menu of the DVD. This button is not available on all DVDs.

**Menu:** Press to display the DVD menu of the current area of the DVD that is playing. This button is not available for DVD audio.

**Search:** Press to display the title search screen. The keyboard allows you to type in the title number of the title that you would like to watch.

**Setup:** Press to display the DVD Setup screen. This button is only available when the DVD is not playing. The DVD Setup screen allows you to change the brightness, contrast, and mode, change the viewing on the monitor, and to change the initial settings; language, parental level, and aspect.

**Brightness:** Press the arrows to increase or decrease the brightness of the navigation screen.


**Contrast:** Press the arrows to increase or decrease the contrast of the navigation screen.


**Auto (Automatic):** Press this button for the system to automatically adjust the navigation screen background depending on exterior lighting conditions.


**Night:** Press this button and the system makes the navigation screen background darken.

**Day:** Press this button and the system makes the navigation screen background brighten.

**Monitor:** From the DVD Setup screen, press this button to adjust the viewing angle of the DVD on the navigation screen. This is not available on all DVDs.

Press  to close the screen in from the left and right sides.

Press  to fill the screen on the left and right sides.

Press  to fill the screen on the top and bottom.

**Initial Settings:** From the DVD Setup screen, press to change audio, subtitle, and menu languages, parental level, and to view the aspect of the DVD. The movie must be stopped to use this menu. These settings are not available on all DVDs.

DVD Initial Settings

Back

Audio Language

English

Français

Español

Subtitle Language

English

Français

Español

Menu Language

English

Français

Español

Parental Level

Aspect

**Audio Language:** Press English, Français, or Español to change the language that you are listening to.

**Subtitle Language:** Press English, Français, or Español to change the language of the subtitles.

**Menu Language:** Press English, Français, or Español to change the language of the menus.

**Parental Level:** Press to change the rating level to only allow the play of DVDs with a certain rating. The rating selection is 1 through 8, with 1 being a G rating. If the 1 is selected, any DVD with a rating above G will not be able to be viewed without entering a password.

When the parental level screen is first entered a keyboard appears on the display and a four-digit password needs to be created. Type in a password that you will be able to remember. Once the password is created, you can then select a rating level.

If you would like to change the rating level, press the Parental Level button, then press the Password button. Type in the password and then change the rating level.

If the password has been forgotten, contact your dealer.

This may not be available on all DVDs.

**Aspect:** Press to change the aspect ratio of the DVD. This may not be available on all DVDs.

**Audio:**

1. Press to display the audio stream number and to change the language heard.
2. Repeatedly press to toggle through the available languages. This may not be available on all DVDs. This button is not available when the DVD is stopped.

**Subtitle:**

1. Press to play back the video with subtitles.
2. Repeatedly press to toggle through the available languages.
3. To turn the subtitles off, press this button until Off is selected. This button is not available when the DVD is stopped. This may not be available on all DVDs.

**Angle:**

1. Press to adjust the viewing angle of the DVD.
2. Repeatedly press to toggle through the angles. This button is not available when the DVD is stopped. This may not be available on all DVDs.

◀ **Page:** Press to go to the previous scene. This button is not available when the DVD is stopped. This button is not available for DVD video.

**Page ►** : Press to go to the next scene. This button is not available when the DVD is stopped. This button is not available for DVD video.

**⏮ SEEK (Next Track/Chapter):**  
Press to go to the next track or chapter. This button may not work when the DVD is playing the copyright information or the previews.

**⏭ SEEK (Previous Track/Chapter):**

1. Press to return to the start of the current track or chapter.
2. Press it again to go to the previous track or chapter. This button may not work when the DVD is playing the copyright information or the previews.

### CD/DVD Messages

If Disc Read Error appears on the display and/or the CD/DVD comes out, it could be for one of the following reasons:

- If a disc was inserted with an invalid or unknown format.
- If the disc is not from a correct region.
- If the map DVD disc was installed into the CD slot. See "Installing the Map DVD" under *Maps on page 43* for more information.
- It is very hot. When the temperature returns to normal, the DVD should play.
- You are driving on a very rough road. When the road becomes smoother, the CD/DVD should play.
- The CD/DVD is dirty, scratched, wet, or upside down.
- The air is very humid. If so, wait about an hour and try again.

- There may have been a problem while burning the CD/DVD.
- The label may be caught in the CD/DVD player.

If the CD/DVD is not playing correctly, for any other reason, try a known good CD/DVD.

If any error occurs repeatedly or if an error cannot be corrected, contact your dealer.

If playing recorded media such as a CD or DVD, the sound quality may be reduced due to CD or DVD quality, the method of recording, the quality of the music that has been recorded, recording speed, max media recording speed, and the way the CD or DVD has been handled. There may be an increase in skipping, difficulty in finding tracks, and/or difficulty in loading and ejecting. If these problems occur, check the bottom surface of the disc. If the surface is damaged, such as cracked, broken, or scratched, it will not play properly.



If the surface is soiled, see “Care of Your CDs and DVDs” in the Index of the vehicle’s owner manual.

If there is no apparent damage, try a known good CD or DVD.

**Notice:** If a label is added to a CD or DVD, or more than one CD or DVD is inserted into the slot at a time, or an attempt is made to play scratched or damaged CDs or DVDs, the player could be damaged. While using the CD or DVD player, use only CDs or DVDs in good condition without any label, load one CD or DVD at a time, and keep the player and the loading slot free of foreign materials, liquids, and debris.

Do not add any label to a CD or DVD, it could get caught in the player. If a CD or DVD is recorded on a personal computer and a description label is needed, try labeling the top of the recorded CD or DVD with a soft marker.

## USB Host Support

The USB connector uses the USB 2.0.

## USB Supported Devices

- USB flash sticks or pen drives.
- Portable USB Hard Drives. Special care needs to be taken related to the power source of these devices (USB bus powered vs. external power).
- Portable media adapters that support SD Flash, Compact Flash, or SD Micro.

Depending on the USB mass storage device, some devices might not be recognized. The supported file formats for USB devices are .mp3 and .wma files.

Music can be played directly from the USB device and controlled through MP3 control functions and menu.

## Playing from USB

Content can also be played directly from the USB device.

The USB port is located, depending on the vehicle, in the center console or instrument panel in the APO connection on the passenger side.

The USB icon displays when the USB device connected.

To play a USB device:

- Connect the USB and it begins to play.
- Press AUDIO until AUX tab is selected, then press the USB screen button. The audio source options under AUX menu will vary based on your Navigation model.

## 34 Infotainment System

While the USB source is active, use the following to operate USB function:

**▶/|| (Play/Pause):** Press to start, pause, or resume play of the current media source.

**◀◀ (Seek/Forward):**

1. Press to seek to the next track.
2. Press and hold to advance quickly through playback.
3. Release to return to playing speed. Elapsed time displays.

**◀◀ (Seek/Reverse):**

1. Press to seek to the beginning of the current or previous track. If the track has been playing for less than five seconds, the previous track plays. If playing longer than five seconds, the current track restarts.
2. Press and hold to reverse quickly through playback.
3. Release to return to playing speed. Elapsed time displays.

**TUNE:** Turn to go to the next or previous track.

**USB Music Menu:** See USB Music Menu following for more information.

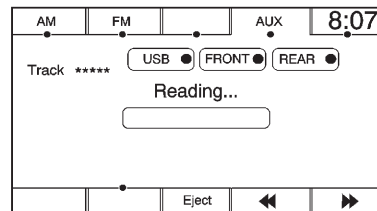
### USB Music Menu

Once the USB has been connected, the main music menu appears.

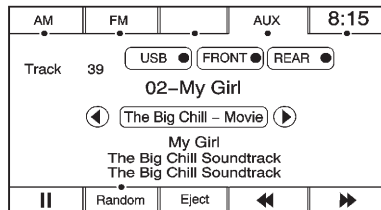
Select any of the following buttons on the USB Music Menu:

**Files/Folders/Playlists:** Select to view the playlists stored on the USB. Select a folder/playlist to view a list of all songs in the folder/playlist. Select a song from the list. Once selected, Files/Folders/Playlists Mode displays. The playlist option would only be available if the device has playlist.

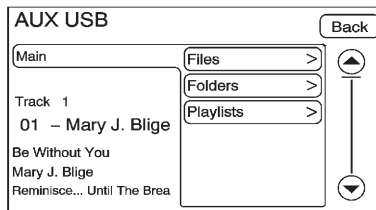
To use the USB music menu:



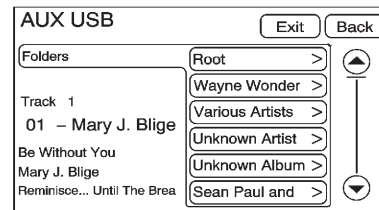
1. Press on the center button to go to the main list menu. The system will start reading the disc.



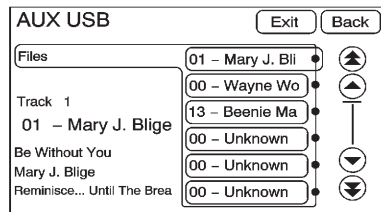
- Once the disc has been read into the system, press USB.



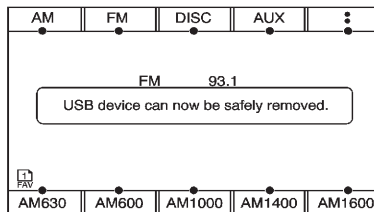
- Press Files, Folders, or Playlists to show a list of songs stored on the USB device.



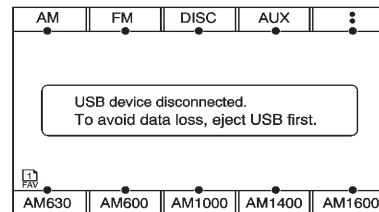
- Press to play the desired song.



Press the single scroll arrows on the side of the screen to scroll through the list. Pressing the double scroll arrows will scroll the list in 10 percent increments.



**Eject:** Press when USB is to be removed. A message displays to safely remove it.



If the USB is disconnected without pressing Eject, the files could become corrupted.

## Playing from an iPod®

iPod® is a trademark of Apple Inc., registered in the U.S. and other countries.

This feature supports the following iPod models:

- iPod (5th generation)
- iPod Nano (1st generation)
- iPod Nano (2nd generation)
- iPod Nano (3rd generation)
- iPod Classic
- iPod Touch

Video streaming or album art will not be supported from the iPod.

For proper operation, make sure the iPod has the latest firmware from Apple®. iPod firmware can be updated using the latest iTunes® application.

For more information, visit [www.apple.com/itunes](http://www.apple.com/itunes)

To connect and control an iPod, connect one end of the standard iPod USB cable to the iPod's dock connector. Connect the other end to the USB port, located in the center console.

iPod music information displays on the radio's display and begins playing through the vehicle's audio system.

The iPod battery recharges automatically while the ignition is on or in the accessory position. When the ignition is turned off while an iPod is connected using the iPod USB cable, the iPod battery stops charging and the iPod automatically turns off.

If the iPod is a model that is not supported, it can still be listened to in the vehicle by connecting it to the Auxiliary Input Jack using a standard 3.5 mm (1/8 inch) stereo cable. See *Auxiliary Devices on page 41*.

## iPod Music Menu

Once the iPod has been connected, the main music menu appears.

Select any of the following buttons on the iPod Music Menu to display the corresponding screen:

### Playlist:

1. Select to view the playlists that have been stored on the iPod.
2. Select a playlist name to view a list of all songs in the playlist.
3. Select the desired song from the list. Once a song has been selected "Playlist Mode" appears on the iPod main screen to show that music is playing from a playlist.

### Artist:

1. Select to view the artists that have been stored on the iPod.
2. Select an artist name to view a list of all songs by the artist.
3. Select the desired song from the list. Once a song has been selected "Artist Mode" appears on the iPod main screen to show that music is being played from a specific artist.

### Album:

1. Select to view the albums that have been stored on the iPod.
2. Select an album name to view a list of all songs on the album.
3. Select the desired song from the list. Once a song has been selected "Album Mode" appears on the iPod main screen to show that music is being played from a specific album.

### Genres:

1. Select to view the genres that have been stored on the iPod.
2. Select a genre name to view a list of all songs of that genre.
3. Select the desired song from the list. Once a song has been selected "Genre Mode" appears on the iPod main screen to show that music is being played from a specific genre.

### Composers:

1. Select to view the composers that have been stored on the iPod.
2. Select a composer name to view a list of all songs of that composer.
3. Select the desired song from the list. Once a song has been selected "Composer Mode" appears on the iPod main screen to show that music is being played from a specific composer.

### Audio Books:

1. Select to view the audio books that have been stored on the iPod.
2. Select an audio book name to view a list of all songs of that genre.
3. Select the desired song from the list. Once a song has been selected "Audio Book Mode" appears on the iPod main screen.

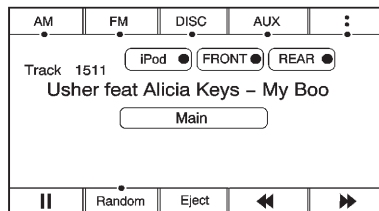
Audio Book will only appear as a valid category if this option is on the iPod.

### Podcasts:

1. Select to view the podcasts that have been stored on the iPod.
2. Select a name to view a list of all songs of that genre.
3. Select the desired song from the list. Once a song has been selected "Podcast Mode" appears on the iPod main screen.

Podcasts will only appear as a valid category if this option is on the iPod.

To use the iPod music menu:



1. Press on the center button to go to the main list menu.



2. Press Files, Folders, or Playlists to show a list of songs stored on the iPod device.

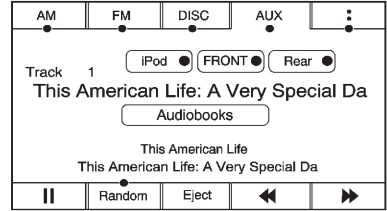


3. Press to play the desired song.

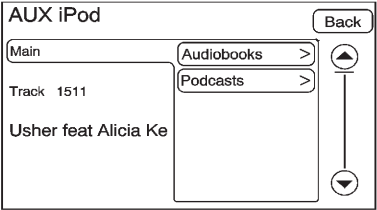
**Eject iPod:** Select to remove the iPod. If the iPod is disconnected without selecting this button, the files on the iPod could be corrupted.

Audio Book

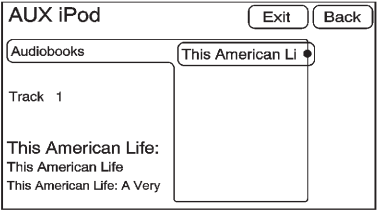
Audiobooks can be downloaded from iTunes® or if in .mp3. After inserting the USB or iPod, the following screen displays:



1. Press on the center button to go to the main list menu.



2. Press on Audiobooks or Podcasts to show a list of the media stored on the iPod device.



3. Press to play the desired media.



## Auxiliary Devices

The navigation system has an auxiliary input jack located in the upper right corner of the faceplate. This is not an audio output; do not plug the headphone set into the front auxiliary input jack. You can however, connect an external audio device such as an iPod, laptop computer, MP3 player, CD changer, or cassette tape player, etc. to the auxiliary input jack for use as another source for audio listening.

Drivers are encouraged to set up any auxiliary device while the vehicle is in P (Park). See "Defensive Driving" in the Index of your vehicle's owner manual for more information on driver distraction.

If the vehicle has rear audio/video input jacks, located in the rear of the center console, they can be used as another source for audio/video listening.

To use a portable audio player, connect a 3.5 mm (1/8 inch) cable to the auxiliary input jack. When a device is connected, the system will detect and automatically begin playing audio from the device over the vehicle's speakers.

If a device is connected and you are listening to another source (FM, CD, MP3, etc.), press AUDIO then press it repeatedly until AUX is selected or press the AUX screen button. An auxiliary device must be connected for the AUX screen button to appear as an option to select or the vehicle must have rear auxiliary jacks. See "Rear Seat Entertainment System" in the Index of your vehicle's owner manual for more information on the rear auxiliary jacks.

## Navigation

### Using the Navigation System

This section presents basic information needed to operate the navigation system.

Use the control buttons located on the navigation system along with the available touch-sensitive screen buttons on the navigation screen to operate the system. See "Control Buttons" for more information.

Once the vehicle is moving, various functions will be disabled to reduce driver distractions.

### Control Buttons

The following buttons are located on the navigation system:


 **(Power/Volume):**

1. Press to turn the system on and off.
2. Turn increase or decrease the volume to the audio system.

If your vehicle has the Rear Seat Entertainment (RSE) and Rear Seat Audio (RSA), press and hold for more than two seconds to turn off the navigation system, the RSE, and RSA.

### (Tune/Speaker Adjustment):

1. Press to access the Sound screen to adjust bass, midrange, treble, and equalization or Digital Signal Processing (DSP), if the vehicle has the Bose® sound system.
2. Turn to go to the next or previous radio station. See *AM-FM Radio on page 14* for more information.

 **(CD/DVD Eject):** Press to eject CDs or DVDs.

**NAV (Navigation):** Press to view the vehicle's current position on the map screen. Each press will cycle through Full Map and the tab that displays the current audio source (AM, FM, CD, etc.). Full Map displays the screen in full map view.

Selecting the audio tab splits the screen between the map screen and the current audio source screen menu. See "Audio" under *AM-FM Radio on page 14* for more information.



**DEST (Destination):** Press to access the Destination Entry screen to plan a destination or to change the search area. See *Destination on page 65* for more information.

**RPT (Navigation Repeat):** Press to repeat the last voice guidance prompt.

**FAV (Favorite):** Press to access the preset stations. See "Storing Radio Station Presets" under *AM-FM Radio on page 14* for more information.

**AUDIO:** Press to access the full Audio screen to change AM, FM, XM™ Satellite Radio Service (if equipped), CD, DVD (if equipped), and auxiliary input. See "Audio" under *AM-FM Radio on page 14* for more information.

**MENU:** Press to adjust features for sound, radio, navigation, and the display. See *Navigation Menu on page 52* for more information.

 **SEEK** /  **SEEK:** Press the arrows to seek and scan radio stations, to seek tracks on a CD, and to seek chapters on a DVD. See *AM-FM Radio on page 14* and *CD/DVD Player on page 22* for more information.

### **Touch-Sensitive Screen Buttons**

Touch-sensitive screen buttons are located on the screen. When a screen button has been selected, a beep will sound. Screen buttons are highlighted when a feature is available.

## Alpha-Numeric Keyboard


Letters of the alphabet, symbols, punctuation, and numbers, when available, displays on the navigation screen as an alpha or numeric keyboard. The alpha keyboard displays when the system requires entry of a city or street name.


All characters are touch-sensitive screen buttons. Press on a character to select it.

**A-Y (Accent Alphabet):** Select this screen button to select letters with accent symbols. This button may toggle to A-Z.

**A-Z (Alphabet):** Select this screen button to select letters from the alphabet. This button may toggle to A-Y.

**0-9 (Numbers):** Select this screen button to select numbers.

 **(Space):** Select the space screen button to enter a space between characters or the words of a name.

 **(Backspace):** Select the backspace screen button if an incorrect character has been selected.

To make name selections easier, the system only highlights the characters that can follow the last one entered. For example, if a Z is entered, a T may not be available for selection.

If a name does not display after entry, it may need to be entered differently, the map DVD disc may not contain that information, or the correct search area has not been selected. See *Database Coverage Explanations on page 81* for more information or *Destination on page 65* to change the search area.

## Maps

This section includes basic information needed to know about the map database.

## Map Coverage

The maps are stored on a DVD. The 48 contiguous United States, along with Hawaii, Alaska, and portions of Canada are contained on one disc.

Refer to the “Navigation System Map Disc” manual to view a detailed explanation of map coverage and detailed city lists in each region. This manual will be in the map DVD case when the vehicle is delivered from the factory.

## Installing the DVD Map Disc


When a DVD Map Disc is installed, noise from the disc may occur, this is normal system operation.

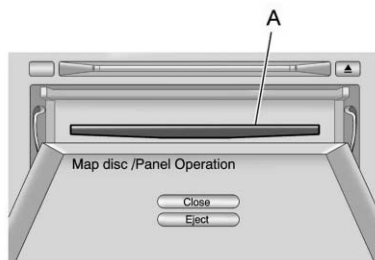
The navigation system in this vehicle uses a DVD to store map information. When the system loads data from the disc, you may hear a very slight buzz sound from the navigation system. The sound is similar to that of a CD player seeking through different tracks.

## 44 Infotainment System

This is normal operation and may occur more frequently with the use of XM NavTraffic.

Your dealer may have installed the map DVD. If the map DVD was not installed, do the following to load it:

1. Turn the ignition on.
2. Press  to turn the navigation system on or press the NAV, DEST, or MENU control button. If MENU is selected, press and hold until the Nav screen is active, or press on the Nav tab manually.
3. Press OK to agree to the Caution screen, if it appears. If the map is in split screen mode, you must push the Nav screen button to get the full map screen.



- A. Map DVD Slot
4. Press Insert Map Disc. The screen tilts to access the map DVD slot.
5. Load the map DVD partway into the slot. The system pulls it in.
6. Once the map DVD is loaded, press the Close screen button. The screen closes
7. Set the search area. See "Setting the Search Area" under *Using the Navigation System on page 41* for more information.

### Ejecting the DVD Map Disc

When the DVD map disc is not loaded, you will not be able to use the navigation portion of the system.

1. Press the MENU control button to enter the Menu options, then press it repeatedly until Nav is selected or press the Nav screen button.
2. Press Map Database Information.
3. Press the Change screen button. The screen tilts, exposing the map DVD slot and the map DVD ejects. Pull the disc out.
4. Press the Close screen button. The screen closes.

## Handling the DVD Map Disc

When handling the DVD map disc, be careful of the following:

- Handle the disc very carefully to avoid contamination or flaws. Signals may not read out properly if the disc gets contaminated or flawed.
- If the disc gets soiled, use a soft cloth to gently wipe it out from the center of the disc to the outside. Do not use photographic record cleaner, solvents, or other cleaners.
- Do not use the disc to rest on while writing or drawing using any writing utensil or attach a seal to any of the sides or the disc.
- Do not keep the disc in direct sunlight, high temperatures, or humidity.
- After using the disc, place it back into the original case.

## DVD Map Disc Messages

If Disc Read Error appears on the display and/or the disc comes out, it could be for one of the following reasons:

- If the map DVD disc was installed into the audio CD/ video DVD slot. See "Installing DVD Map Disc" in this section.
- It is very hot. When the temperature returns to normal, the disc should work.
- You are driving on a very rough road. When the road becomes smoother, the disc should work.
- The disc is dirty, scratched, wet, or upside down.
- The air is very humid. If so, wait about an hour and try again.

## Map Adjustments

The system allows you to adjust the scale of view on the map. Also, as you drive, the map will scroll automatically based on the direction of travel.

### Map Scales



**(Zoom In/Zoom Out):**

Press the zoom in or out screen buttons or the scale on the bar to change the level of map detail. The scale appears on the screen once the zoom in or zoom out screen buttons are selected. The system adjusts the map accordingly. The scale of a map can range from 50 m (150 ft) to 400 km (250 mi). To change from English or metric, see "Driver Information Center, DIC Operation and Displays" in the Index of your vehicle's owner manual.

### Scrolling the Map



Press anywhere on the map screen and the scroll symbol appears. Use this feature to scroll across the map.

Move your finger in any direction on the map screen and the map continues to scroll in that direction until you remove your finger.

If scrolling while the vehicle is in P (Park), the system will scroll initially at a slower rate. It increases if you continue pressing on the map screen.

If scrolling while the vehicle is in motion, you have one scroll speed and a limited distance to scroll. You have to keep pressing on the map screen to scroll for a longer distance.

If you have used the scroll feature to scroll the map and the vehicle icon becomes lost, press NAV to return to the current vehicle location on the map.

You can use the scroll feature on the map to set a destination. See “Pick from Map” under *Destination on page 65* for more information.

When scrolling on the map without a planned route, press Go to calculate the route from your current position to the destination mark.

### Navigation Symbols

The following symbols are the most common symbols that appear on a map screen.



The vehicle is shown as this symbol. It indicates the current position and heading direction of the vehicle on the map.



The destination symbol appears on the map, after a route has been planned, marking the final destination.



The waypoint symbol displays on the map after a waypoint has been added to the route.

The waypoint symbol is numbered from one through three depending on how many intermediate waypoints have been set.



The distance to destination symbol indicates the distance to the final destination.

This symbol only appears when time is not available or when you are scrolling on the map.



The distance and time to destination symbol indicates the distance and the estimated time remaining to the final destination.



The straight line to distance symbol indicates the straight-line distance to the destination.

This symbol appears before you start driving on the route or if you are on a road where navigation guidance cannot be given.



The north up symbol indicates the map with North Up, known as North Up mode.

While in North Up mode, the vehicle icon follows the north direction on the map regardless of which direction the vehicle is traveling. Select this screen symbol to switch between North Up and Heading Up modes.



The heading up symbol indicates the map with the vehicle travel direction up, known as Heading Up mode.

The shaded triangle indicates the North direction. While in Heading Up mode, the direction the vehicle is traveling will always be at the top of the map screen. The vehicle icon always heads in the direction the vehicle is traveling. Select this screen symbol to switch between Heading Up and North Up modes.



The No GPS symbol appears when the vehicle is not receiving a Global Positioning System (GPS) satellite signal.

See *Global Positioning System (GPS)* on page 78 for more information.

**Mark**

Select the Mark screen button to store the location on the screen in your address book.

The system automatically stores the point in the address book. See “Adding Destinations to the Address Book” under *Destination* on page 65 for more information.

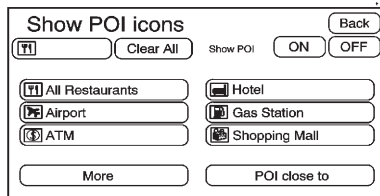


## Displaying Points of Interest (POI) on the Map Screen

POI

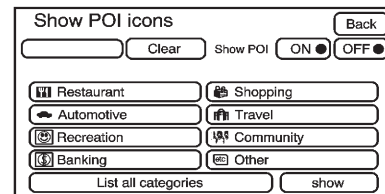
Select the POI screen button to display or delete POI icons from the map.

Displaying POI icons on the map let you know where POIs (i.e. restaurants, gas stations, etc.) are located. This screen appears after selecting the POI screen button.



Select one of the POI categories to display or to delete POI icons from the map screen. Once a category has been selected, the POI icon displays at the top of the screen. Five categories can be selected to display on the map screen. When a category is selected those POI icons display on the map. Press the POI screen button again to add more POI icons.

**More:** Select to view more POI categories.



**POI Close to:** Once a category has been selected, press this button to display the list of available POIs for the selected POI categories. The list provides the POI icon, the name, the direction, and the distance to the POI from the vehicles current position. Use the scroll arrows to move up and down the list. Use the Sort by DIST. (distance), Icon, Name, and on Route as desired.

**Go:** Press this button, located next to the desired POI, to make this POI a destination or a waypoint.

Select a POI name to receive information about the POI. From this screen you can select: Add to Address Book, Go, Map, or Call (if OnStar<sup>®</sup> personal calling is activated).

**Add to Address Book:** Press to add this POI to the address book. See “Nav” under *Navigation Menu* on page 52 for information on editing address book entries.

**Go:** Press to make this POI a destination or a waypoint.

**Call:** Select to initiate a call using the OnStar Hands-Free system. The Call button is only available if OnStar personal calling is activated. For more information about OnStar Hands-Free Calling, see the OnStar Owner Guide.

**Map:** Press to display the map showing the location of the POI.

**Show:** Select to update the map screen and the list, once a category has been selected.

**Show POI:** Select ON to display the POI icons on the map screen. Select OFF to remove the POI icons from the map screen.

**List all Categories:** Select to list all POIs sorted alphabetically.

**Clear:** To delete a category, do one of the following:

- Delete the last added POI category, select the Clear screen button.
- Delete a specific POI category:
  1. Select the category.
  2. Select the subcategory.
  3. A pop-up confirmation displays. Select the Delete screen button, the map screen displays with that POI category deleted.

**Clear All:** Select to clear all selected POI categories. A pop-up confirmation displays. Select the Delete screen button, the map screen displays with all POI categories deleted.

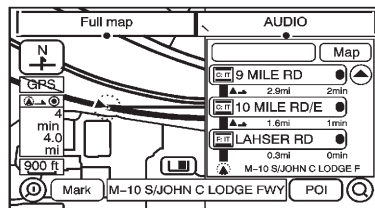
## Driving on a Route

When a destination has been routed and you are driving on route, the map screen automatically displays the next maneuver.



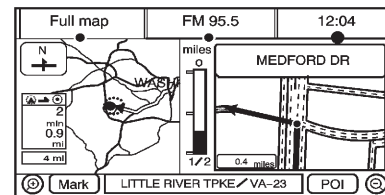
This next maneuver pop-up displays the next maneuver direction and how many miles or kilometers you are from it.

## Dual Mode



The Dual Mode symbol displays when the screen is in dual mode.

Dual mode displays the route on half of the screen and a maneuver or Interstate Exit list on the other half. The Interstate Exit list advises of approaching exits. Press this button to switch between dual screen and full screen which displays the entire route.



When approximately 0.08 km (1/2 mi) from the next maneuver, or two miles while on expressways, the screen displays the name and a detailed view of the next maneuver.

Press the dual mode button to hide the detailed turn maneuver view for this maneuver only.

### Auto Reroute

When the destination is set and you are off the planned route, the system automatically plans a new route and begins to reroute. The new route becomes highlighted on the screen.

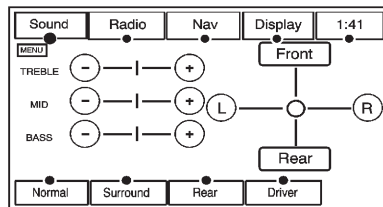
### Traveling Across Regions

If you plan to drive across many states, you may have to change the region selected to represent the area you are traveling to. To change the region:

- Change the selected region in the search area when you get closer to your destination. See *Destination* on page 65.
- Change the selected region in the search area when entering your destination and route settings. See *Destination* on page 65.

For example, if you were traveling from Michigan to Florida, change the region currently selected in the search area to Florida. Enter a destination in Florida under the Destination Entry menu.

### Navigation Menu



Press the MENU control button to adjust several of the system's features and preferences. The last selected menu screen is the screen that displays; Sound, Radio, Nav (navigation), Display, or Time.

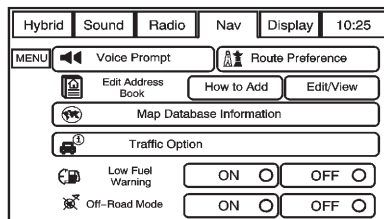
## Sound

Press the MENU control button to enter the Menu options, then press it repeatedly until Sound is selected or press the Sound screen button to make speaker and equalization or DSP (Digital Signal Processing) adjustments. See *AM-FM Radio on page 14* for more information.

## Radio

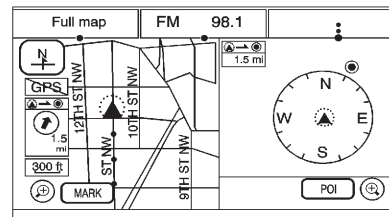
Press the MENU control button to enter the Menu options, then press it repeatedly until Radio is selected or press the Radio screen button to make changes for radio information displayed, preset pages, XM™ categories, and Automatic Volume Control. See *AM-FM Radio on page 14* for more information.

## Nav (Navigation)




Press the MENU control button to enter the Menu options, then press it repeatedly until Nav is selected or press the Nav screen button.

## Off-Road Mode




To turn the Off-Road Mode on or off:

1. Press the MENU control button.
2. Press the Nav screen button.

3. Press  (Off-Road Mode) On or Off screen buttons. The active button highlights.

When the off-road mode is turned on, the navigation system shows the path being traveled by the vehicle when not on a marked road. This path is a simulation since the map database coverage will not have these roads on the DVD. This path is stored in the navigation system's memory, see "Previous Destination" under *Destination on page 65* for more information.


### Voice Prompt

 **Voice Prompt:** Press to change the volume of the voice prompts or to turn the voice prompts on and off.

**Voice Prompt Volume:** Press + or – to increase or to decrease the volume of the voice prompts.

**Turn voice turn instruction:** Press ON or OFF to turn voice instructions on and off while traveling on a planned route.

### Route Preference

Press  (Route Preference) to change route options when the system calculates a route.

**Allow highway:** Allows the system to use major roads when calculating a planned route.

**Allow toll road:** Allows the system to use toll roads when calculating a planned route.

**Allow ferry:** Allows the system to use ferries when calculating a planned route.

**Allow time and seasonal restricted road:** Allows the system to use time restricted and seasonal roads when calculating a planned route.


### Edit Address Book


#### How to Add

To add an address to the address book, see "Adding Destinations to the Address Book" under *Destination on page 65*.

## Edit/View


To edit the name of an address book:

1. Select the MENU control button.
2. Select the Nav screen button.
3. Select  (Edit/View Address Book).
4. Select the Address book entry.


Address Book		Back
Icon		Delete
Name	ALEXANDRIA CITY CIVIL COURT	
Location	520 KING ST. ALEXANDRIA, VA	
Phone #	703-838-4020	Map
Add Voice tag		Go
Push & Hold to store your preset destinations		
CRESTAR	ALEXAND	

5. Press the Name screen button and use the alpha keyboard to edit or add the name.
6. Press OK to save your changes.


To add or change the phone number of an address book entry:

1. Select the MENU control button.
2. Select the Nav screen button.
3. Select the  (Edit/View Address Book) screen button.
4. Select the address book entry to change.
5. Press Phone # and use the numeric keyboard to input or change the phone number.
6. Press OK to save your changes.


To change the map icon of an address book entry:

1. Select the MENU control button.
2. Select the Nav screen button.
3. Select the  screen button.
4. Select the address book entry to change.
5. Select the Icon screen button.
6. Select an icon from the list.


To add a voice tag to an address book entry:

1. Select the MENU control button.
2. Select the Nav screen button.
3. Select the  screen button.
4. Select the Add Voice tag screen button.
5. The system will ask for you to state the name. You will have five seconds to state the name. The system responds back with the name.

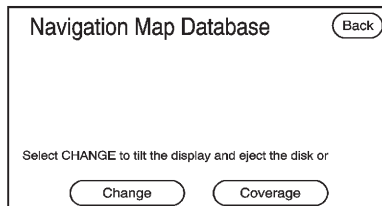
To delete an address book entry:

1. Select the MENU control button.
2. Select the Nav screen button.
3. Select the  screen button.
4. Select the address book entry to delete.
5. Press Delete to delete the address book entry.

To delete the entire address book:

1. Select the MENU control button.
2. Select the Nav screen button.
3. Select the  screen button.
4. Select the address book entry to delete.
5. Press and hold Delete until the delete all address book entries pop-up confirmation displays. Select Yes to delete; select No to cancel the operation.

### Map Database Information

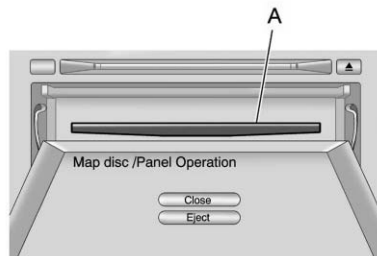


To change the map DVD and to view the coverage areas of the map DVD:

1. Press the MENU control button.
2. Select the Nav screen button.
3. Select Map Database Information.

**Change:** Press to eject or change the map DVD. The screen tilts, exposing the map DVD slot and, if loaded, the map DVD will eject.

Pull the map DVD out. Insert the map DVD partway into the slot. The system pulls it in.

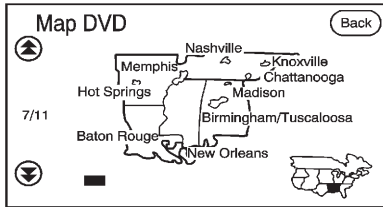


#### A. Map DVD Slot

Once the map DVD is loaded press the Close screen button. The screen closes.

Once the screen is closed press OK to proceed to the navigation system. See *Using the Navigation System* on page 41.





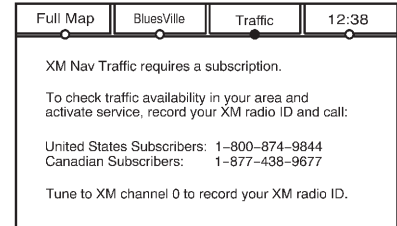
**Coverage:** Press to view the areas covered by the map DVD.

Press the arrows to view each region of the map DVD. The screen displays the major cities for the selected region.

## XM NavTraffic™ (USA and Canada)

The vehicle's navigation system may have an XM NavTraffic™ receiver. XM NavTraffic™ is a subscription service provided via XM™ Satellite Radio. XM NavTraffic™ provides real-time traffic information fully integrated to the navigation system to display current traffic conditions for a driver's chosen route and surrounding area. XM NavTraffic™ allows drivers to make the most informed, timesaving routing decisions.

If the Traffic screen button is pressed or if an attempt is made to turn on the traffic display in the Navigation Setup Menu without a subscription, a warning screen displays indicating that XM traffic is not activated.



Three types of traffic information for major roadways are displayed on the navigation system:

- Unscheduled traffic incident data, such as accidents and disabled vehicles
- Scheduled traffic incident data, such as road construction and road closures
- Traffic flow information (rate of speed data)

Traffic information is delivered to the vehicle by the XM™ Radio satellites. XM NavTraffic™ makes it possible for the navigation system to provide continuously updated traffic information personalized for a driver's needs.

XM NavTraffic™ currently broadcasts the traffic information for many markets nationally, and the service may be available in more cities in the future. Visit [www.xmnavtraffic.com](http://www.xmnavtraffic.com) for more details on local coverage.

A service fee is required in order to receive the XM NavTraffic™ service.

### Turning XM NavTraffic™ On and Off

To turn traffic on or off:

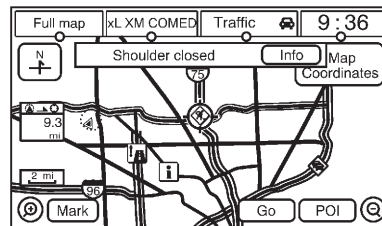
1. Press the MENU control button, then press it repeatedly until Nav is selected or press the Nav screen button.
2. Press the Traffic Options button.
3. Press the Traffic button. This button is highlighted when it is active.

Selecting Alert for Approaching Traffic Events enables the system to show a pop-up screen that notifies of possible traffic issues ahead.




When this feature is highlighted, while traveling on a route, accidents located on the route are indicated and can be avoided.

### Traffic Icon

The Traffic Icon appears on the Traffic Tab, next to the word Traffic, when traffic is found in the local area.



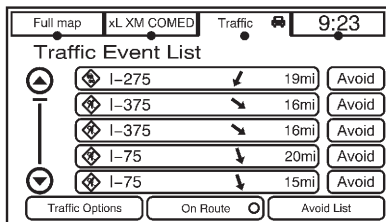
The Traffic Icon has three different condition displays. These are:

Condition	Traffic Status Icon
No XM NavTraffic™ subscription. No Traffic is found in the local area. The Traffic Feature is turned off.	
Traffic events are in the area, but none are on route.	
Traffic events are on route.	

### Locations and Information of Traffic Conditions

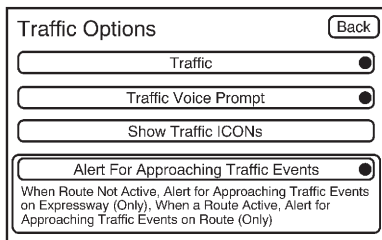
The system may take some time to sort the information. The list of traffic conditions display in the order of distance from the vehicle, at a minimum of approximately 16 mi (25 km). If traveling on a planned route, the list can be filtered to see traffic conditions along the planned route. Not all traffic conditions may be listed.

To view the traffic condition location and information on the map:



1. Press NAV, then press it repeatedly until Traffic is selected, or press the Traffic screen button. A list of traffic conditions with the direction and distance from the vehicle's current position displays.
2. Select a traffic condition to get more detailed information of the event.

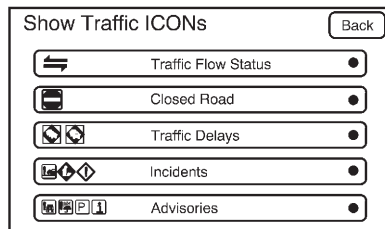
## Options



Select the Options screen button. A Traffic Options menu displays. Select the desired traffic related option.

**Traffic:** Select to enable or disable the traffic function.

**Show Traffic ICONs:** Select to display traffic icons on the map screen. This function allows which traffic information displays.



**Traffic Flow Status** — Use this button to enable or disable the green, yellow, red and orange arrows shown beside the roads and used to show the traffic flow or extent of a traffic event.

- Black indicates a closed road segment.
- Red indicates significantly impaired traffic flow with average speed less than 25 mph.


- Yellow indicates slightly impaired traffic flow with average speed between 25 and 45 mph.
- Green indicates normal traffic flow with average speed above 45 mph.

Traffic flow data arrows display on the map when scaled up to eight miles.


Closed Road, Traffic Delays, Incidents, and Advisories — These four screen buttons are used to turn on and to show traffic event icons that appear on the map screens.


### Traffic Event Display Categories

The following are traffic condition categories and symbols that can appear on the display:


 **(Road Closed):** Road and/or ramps closed.


 /  **(Stopped/Slow Traffic):** Traffic stopped, stop and go traffic, delayed and congested traffic.


 **(Alert):** Object in the roadway, disabled vehicle, or dangerous road conditions.

 **(Accident):** Roadway obstructed due to accident.

 **(Road Works):** Delayed traffic due to construction.

 **(Road Condition):** Delayed or stopped traffic, lane blocked or closed due to a road condition.

 **(Weather):** Heavy rain, snow, or fog weather condition.

 **(Parking):** Available parking area.

 **(Information):** Special event, general information, or warning.

### Alert for Approaching Traffic

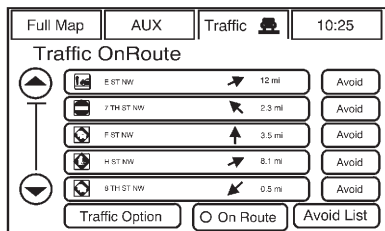
**Events:** When On, if an approaching traffic event is within the alert range, one of two traffic alert pop-up screens display:

- With no route planned, while on expressways, Approaching Traffic Event without Avoid screen displays.
- With route planned, Traffic Event on Route screen displays.

If the Alert for Approaching Traffic Events is Off, the alert pop-up screen does not display and no voice announcement when approaching traffic.

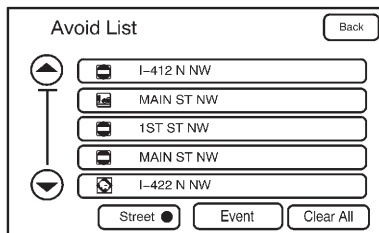
### On-Route

Select the On Route screen button to display all events ahead on the current active route. If no traffic events have been reported on route, this list will be empty.

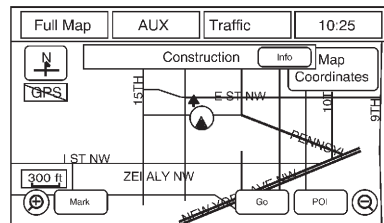


### Avoid List

Press to show previously avoided incidences. Select an incidence to cancel it from being on the avoided list.



### Scrolling to Traffic Events on the Map

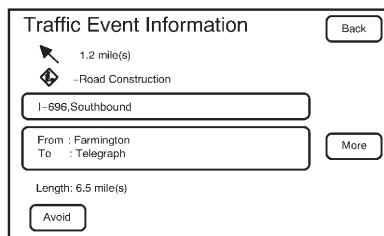


While scrolling the map, traffic condition icons may appear. To receive information about the traffic condition, place the cross hairs over the traffic condition icon. After selecting the Info (information) screen button, the type of traffic condition, the street name, and a description of the traffic condition displays. See "Scrolling the Map" under *Maps* on page 43 for more information.

Press NAV to return to the normal full map screen.

### Detailed Traffic Event Screens

There are different types of detailed traffic event screens. Each screen is a variance of the one shown on the Traffic Event Screen.



**Traffic Event Screen**

The Traffic Event screen can be displayed by:

- Scrolling to an event on the map and then pressing Info.
- Selecting a traffic event listed on the Traffic Event List screen.
- Selecting a traffic event listed on the Traffic On Route Screen.

### Back, Map, More, and Avoid

These buttons have common functions across all three Detailed Traffic Event screens.

**Back:** Press to return to the previous screen.

**Map:** Press to show the related traffic event on the map. If selected, the Map Traffic Event Icon screen displays.

**More:** Press to display more of the traffic event description.

**Avoid:** This button is used to avoid the location of an event on the route. If selected, a new route is calculated and the related traffic event is avoided. After the new route has been calculated, the navigation system goes to the full map screen and shows the new route.

The Avoid button is only available if the route ahead and in the Traffic On Route List.

### Traffic Voice Prompts

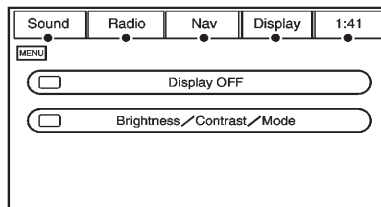
If the voice prompts are on, whenever an Alert for Approaching Traffic is displayed, the system gives the related voice prompt. The content of the voice prompt depends on actual traffic event data.

The RPT (Repeat) control button is for navigation traffic maneuvers only. It is not used to repeat traffic prompts. During a traffic voice prompt, if RPT is pressed, the current prompt playback cancels.

Anything that cancels the Alert for Approaching Traffic, also cancels the related voice prompt.

Traffic prompts are disabled during OnStar® or Voice Recognition activity.

### Display

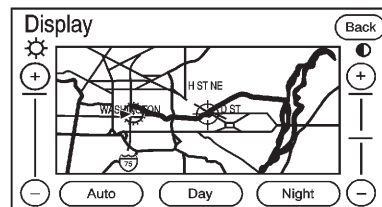


Press the MENU control button to enter the Menu options, then press it repeatedly until Display is selected or press the Display screen button.

#### Display Off

Press to turn the display off. Press any control button to view the display.

### Brightness/Contrast/Mode



Press this screen button to change the brightness, contrast, and mode of the display.

**(Brightness):** Press + or – to increase or decrease the brightness of the screen.

**(Contrast):** Press + or – to increase or decrease the contrast of the screen.

**Auto (Automatic):** Press so the system will automatically adjust the screen background depending on exterior lighting conditions.



At night, the brightness can be adjusted with the vehicle dimming knob near the headlamp switch.

**Night:** Press to make the map background darker.

**Day:** Press to make the map background brighter.

## Setting the Clock

Press the MENU control button to enter the menu options, then press it repeatedly until the time is selected or press the time screen button, then press the Set screen button.

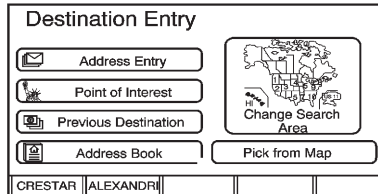
**Hours:** Press – or + to decrease or increase the hours.

**Minutes:** Press – or + to decrease or increase the minutes.

**12/24 Format:** Select the 12 screen button for standard time; select the 24 screen button for military time.

## Destination

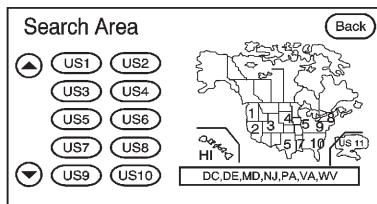
Press the DEST control button to access the Destination Entry screen. From this screen, select from several options to plan a route by entering destination points.



## Search Area

The Destination Entry screen allows you to select the area included in the search for your destination. A map that divides the 48 contiguous United States, along with Hawaii, Alaska, and a part of Canada into 14 regions is displayed.


Before selecting a method of destination entry, review the search area map to make sure your destination is located in the highlighted region.



Press the Change Search Area screen button to view the Search Area screen. Press the numbered screen button to the left of the search area map that corresponds with the numbered region and to view a list of states included in the region selected. The selected area highlights on the map. Press the down arrow to select CAN (Canada). Press the back screen button to return to the Destination Entry screen and to store the selected region.

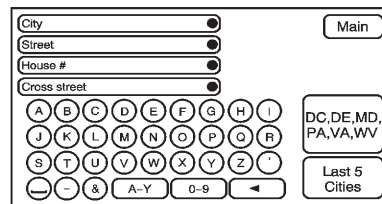
To enter a destination, choose from one of the following destination entry methods:

### Address Entry


 **Address Entry:** The address entry destination method allows you to enter an address by providing the system with a city name or a street name.

If you are having trouble finding a city or a street name:

- Input the street name first instead of the city name, or vice versa.
- Input more characters or reduce the amount of characters to reduce or expand the available options.



To enter a destination by entering the city name first:

1. Press the DEST control button.
2. Select  (Address Entry).
3. Select the City name screen button.

4. Enter the city name or press the Last 5 Cities screen button.

The Last 5 Cities screen displays a list of the last five city names that had been entered. Select a city from the list and it appears in the City name area.

If using the alpha keyboard, finish entering the city name.

If five or fewer names are available, a list displays. If more than five are available, there will be a screen button with a number in it, it represents the number of available cities. Select this button to view the list and select a city.


5. Once a city has been selected the Street name category will automatically be selected for entry.

Start entering the street name. If five or less names are available, a list displays. If more than five are available, there will be a screen button with a

number in it, it represents the number of available streets. Select this button to view the list.

6. Select the street name with the correct prefix (Dr., Ln, St., etc.) from the list.
7. Once a street has been selected, the numeric keyboard displays, allowing you to enter the house number. The system displays the house number range that is available for the street.
8. Select Go. The map screen, with the destination marked, displays.
9. Select the route preference (Fastest, Shortest, or Other). The system calculates and highlights the route.
10. Select Start Guidance. You are now ready to start the route. See "Getting Started on Your Route" in this section for more information.

To enter a destination by entering the street name first:

1. Press the DEST control button.
2. Select the  screen button.
3. Select the Street screen button and start entering the street name.

If five or fewer names are available, a list displays. If more than five are available, there will be a screen button with a number in it, it represents the number of available streets. Select this button to view the list.

4. Select the street name with the correct prefix from the list (Dr., Ln., St., etc.).

5. Once a street has been selected the City name category will automatically be selected for entry.

If five or fewer cities are available for the selected street, the system will display the list of cities. If more than five cities are available the system displays the alpha keyboard. Start entering the city name. If five or less names are available, a list displays. If more than five are available, there will be a screen button with a number in it, it represents the number of available cities. Select this button to view the list and select a city.


6. Once a city has been selected, the numeric keyboard displays, allowing you to enter the house number. The system displays the house number range that is available for the street.
7. Select Go. The map screen, with the destination marked, displays.

8. Select the route preference (Fastest, Shortest, or Other). The system calculates and highlights the route.

9. Select Start Guidance. You are now ready to start the route.

See "Getting Started on Your Route" in this section for more information.

To enter a destination by entering a cross street:

1. Press the DEST control button.
2. Select the  screen button.
3. Select the Street screen button and start entering the street name.

If five or fewer names are available, a list displays. If more than five are available, there will be a screen button with a number in it, it represents the number of available streets. Select this button to view the list.

4. Select the desired street name with the correct prefix from the list (Dr., Ln., St., etc.).
5. Once a street has been selected the Cross Street screen button becomes available. Select the Cross Street button and start entering the cross street name.

If five or fewer names are available, a list displays. If more than five are available, there will be a screen button with a number in it, it represents the number of available cross streets. Select this button to view the list.

6. Select the street name with the correct prefix from the list (Dr., Ln., St., etc.). An Information screen automatically displays.
7. Select Go. The map screen, with the destination marked, displays.
8. Select the route preference (Fastest, Shortest, or Other). The system calculates and highlights the route.
9. Select Start Guidance. You are now ready to start the route.  
See "Getting Started on Your Route" in this section for more information.

### Point of Interest (POI)

The Point of Interest (POI) destination entry method allows you to select a destination from the POI list.

**Point of Interest:** Press to access the Point of Interest (POI) screen. From this screen you have two options to select/enter a destination; enter the name using the alpha keyboard or select a category from the category list.


To use the point of interest destination entry method by entering the name:

1. Press the DEST control button.
2. Select (Point of Interest).
3. Enter the POI name.  
If five or fewer names are available, a list displays. If more than five are available, there will be a screen button with a number in it, it represents the number of available POIs. Select this button to view the list.
4. Select Go, located next to the POI. The map screen, with the destination marked, displays.
5. Select the route preference (Fastest, Shortest, or Other). The system calculates and highlights the route.

6. Select Start Guidance. You are now ready to start the route.

See “Getting Started on Your Route” in this section for more information.

To use the point of interest destination entry method by selecting a category:

1. Press the DEST control button.
2. Select  (Point of Interest).
3. Select Browse POI to view the list of POI categories.
4. Select a category, and then a sub-category.

The system displays available POI names in the selected sub-category or if the list is too long the system displays the alpha keyboard.

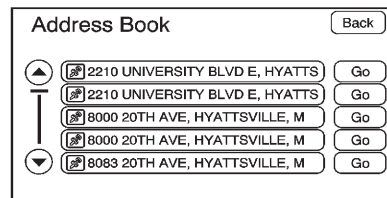
If the alpha keyboard is displayed, enter the POI name until a list of available POIs appear. There is a screen button with a number in it, it represents the number of available POIs. Select this button to view the list and select the POI.


5. Select Go, located next to the POI. The map screen, with the destination marked, displays.
6. Select the route preference (Fastest, Shortest, or Other). The system calculates and highlights the route.
7. Select Start Guidance. You are now ready to start the route.

See “Getting Started on Your Route” in this section for more information.

### Address Book

The address book entry method allows you to select a destination by selecting an address that has been stored in your address book.



 **Address Book:** Press to access the Address Book screen. From this screen you can select an address that already exists as the destination.

To use the address book entry method:

1. Press the DEST control button.

2. Select the  screen button.

A list of your address book addresses will display.

3. Select Go, located next to the destination. The map screen, with the destination marked, displays.

4. Select the route preference (Fastest, Shortest, or Other). The system calculates and highlights the route.

5. Select Start Guidance. You are now ready to start the route.

See "Getting Started on Your Route" in this section for more information.

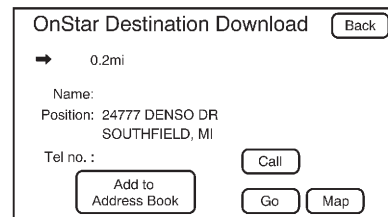
See "Adding Destinations to the Address Book" in this section.

## OnStar® Destination Download

OnStar® Destination Download (if equipped) is a service available for OnStar® subscribers that makes operating the navigation system much simpler. It allows subscribers to request and receive navigation assistance on-the-go.

### Using OnStar® Destination Download

Press the blue OnStar button and an Advisor can locate a point-of-interest or an address and download the necessary information to the navigation system. Once the destination is downloaded, the navigation system searches for the address in the mapping disc's database. When the address is found, it is shown on your navigation system's screen along with the buttons described below.

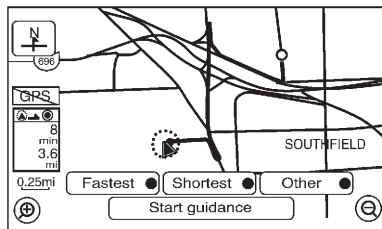


The image shows a screenshot of the 'OnStar Destination Download' screen. At the top right is a 'Back' button. Below the title, there is a right-pointing arrow followed by '0.2mi'. The 'Name:' field is empty. The 'Position:' field contains '24777 DENSO DR' and 'SOUTHFIELD, MI'. Below this, the 'Tel no. :' field is empty. At the bottom, there are four buttons: 'Add to Address Book' (a larger button on the left), 'Call' (top right), 'Go' (bottom left), and 'Map' (bottom right).

### OnStar Download Screen

- Select Go, the navigation system calculates route(s). Select a route (i.e. Shortest Route), and Start Guidance.
- Select the Map screen button, the navigation system displays the Destination Map Screen.

- Select the Call screen button, the navigation system initiates a call to your destination with your Bluetooth phone (if available) or OnStar Hands-Free Calling (if minutes are available).
- Select Add to Address Book, the navigation system copies the downloaded destination to the address book and displays the new address book entry.
- Select Back, the navigation system cancels the OnStar Destination Download and returns to the previous screen. The downloaded address will not be added to the previous destinations.



**Start Guidance Screen**

### **Route Guidance Not Active**

If an OnStar destination is downloaded while route guidance is not active, the navigation system displays an OnStar Destination Download Screen and operations continue as outlined in the Using OnStar Destination Download section:

### **Route Guidance Active**

If OnStar downloads a destination while route guidance is already active, the navigation system adds the downloaded destination as the next waypoint in the existing route. All features such as Call and Add to Address Book will be available for the waypoint. Refer to the section on Waypoints for more information.



### Previous Destinations

Previous OnStar Destination Downloads are saved under Previous Destinations in the navigation system where they can be accessed or saved to the address book.

Important Notes regarding OnStar Destination Download:

- The map disc must be installed in the radio for OnStar Destination Download to function.
- If the navigation system is turned off when the destination download is attempted, the navigation system automatically turns on and displays the OnStar Destination Download Screen. The radio remains on after the download occurs.

- If the navigation system is turned off when the destination download is attempted, the navigation system automatically turns on and displays the OnStar Destination Download Screen. The radio remains on after the download occurs.
- If OnStar downloads a destination and the address is not found in the mapping disc's database and routing by coordinates is not available, the Go and Map buttons gray out and routing will not be available. Press the OnStar button for further assistance.
- The Call button grays out when there is no phone number available for your destination and while connected to OnStar.

### Map Destination Screen Functions

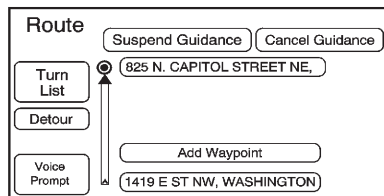
If the map screen is used to show destination, it will have map screen capabilities such as Go, Mark, Zoom, Scroll, etc. The address is shown at the top of the screen.



**Destination Map Screen**

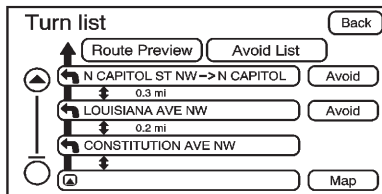
## Getting Started on Your Route

Once you have entered a destination there are several functions that can be performed. Press the DEST control button to access the Route screen.



## Turn List

**Turn List:** Press to view the list of turn maneuvers for the entire route and to avoid turns on the route.

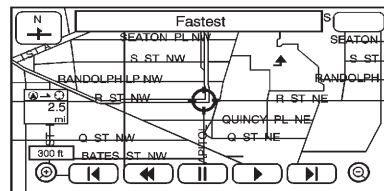


**▲ / ▼ (Scroll Arrows):** Press the arrows to scroll through the list of maneuvers.

**Avoid:** Press this button, located next to the adjacent street name, to avoid the maneuver.

The map screen displays. Select the Fastest, Shortest, or Other screen buttons. Press Start Guidance. The route re-calculates without the selected avoided maneuver.

**Avoid List:** Press to cancel an avoided turn. The list of selected avoided turns display. Select the turn to cancel the turn from being avoided.



**► (Route Preview):** Press to preview the entire route in either direction.

◀ (Reverse Skip) : Press to go back to the start point or previous waypoint.

◀ / ◀◀ (Reverse Scroll): Press to scroll to the start point or previous waypoint. This button toggles between slow and fast speed.

|| (Pause): Press to pause the route preview, while in reverse or fast forward scroll.

▶ / ▶▶ (Fast Forward Scroll): Press to scroll to the next waypoint or to the final destination. This button will toggle between slow and fast speed.

▶| (Fast Forward Skip): Press to go to the next waypoint or to the final destination.

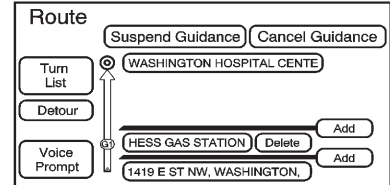
## Detour

**Detour:** Select this button from the Route screen, then select to detour 1 km, 3 km, or 5 km (1 mile, 3 miles, or 5 miles) around the current route. You may also select to detour the whole route if necessary. This option is only available while you are driving on your current planned route.

## Voice Prompt

Select this button from the Route screen to turn voice prompts on or off and to change the volume of voice prompts. See “Nav” under *Navigation Menu* on page 52 for more information.

## Add Waypoint



**Add Waypoint:** Select this button from the Route screen. This feature allows you to add up to three waypoints to the current route, between your start point and final destination. Once a waypoint has been added, the points can be edited or deleted.

To add a waypoint:

1. Press the DEST control button.
2. Select the Add Waypoint screen button. This button only appears if a route has been calculated.
3. Using the desired method of entering a destination, enter the waypoint. See "Destination" previously for more information.
4. Select the route preference (Fastest, Shortest, or Other). The system calculates and highlights the route.
5. Select Start Guidance. You are now ready to start the route.
6. To add the second and third waypoints, press DEST, then select the Add screen button, where you would like the next waypoint to fall on the route.

7. Select the route preference (Fastest, Shortest, or Other). The system calculates and highlights the route.
8. Select Start Guidance. You are now ready to start the route.

To delete a waypoint from the current route:

1. Press the DEST control button.
2. Select the Delete screen button for the desired waypoint to delete.
3. The system displays a pop-up confirmation message. Choose Yes to delete the waypoint; press No to cancel this operation.

4. Select the route preference (Fastest, Shortest, or Other). The system calculates and highlights the route.
5. Select Start Guidance. You are now ready to start the route.

### **Suspend Guidance**

Press this button, from the Route screen, to put the current route on hold.

### **Resume Guidance**

Press this button, from the Route screen, to resume guidance on the current route.

### **Cancel Guidance**

Press this button, from the Route screen, to cancel the current route.

## Adding Destinations to the Address Book

There are two ways to add a destination to the address book:

- To add the current final destination to the address book, press Mark from the map screen. The system automatically saves the final destination information in the address book.
- Press Add to Address Book when available on POI information screens, Destination Entry screens, or POI screens. The system automatically saves this information in the address book.

See “Nav” under *Navigation Menu* on page 52 for information on editing address book entries.

## Adding or Changing Preset Destinations

This feature allows you to add or change one of five preset destinations. When a destination has been added as a preset destination, it becomes available to select from the Destination Entry screen. See “Preset Destination” previously for information on how to select a preset destination as a final destination.

To store the current final destination as a preset destination:

1. Select Mark from the map screen to add the current final destination. The Address Book screen appears.
2. Select Name. An alpha-keyboard displays. Enter the name.
3. Press and hold one of the buttons at the bottom of the screen until a pop-up confirmation displays.

The name appears in that preset destination screen button and is now available to select from the Destination Entry screen.

To store an address book entry as a preset destination:

1. Select the MENU control button.
2. Select the Nav screen button or press the MENU control button until the Nav screen button is selected or press the Nav screen button.
3. Select Edit/View.
4. Select the address book entry that you would like to store as the preset destination. Select the Name screen button to add a name, if needed.
5. Press and hold one of the buttons at the bottom of the screen until a pop-up confirmation displays.

The name appears in the that preset destination screen button and is now available to select from the Destination Entry screen.

### Global Positioning System (GPS)

The navigation system determines the position of the vehicle by using satellite signals, various vehicle signals, and map data.

At times, other interferences such as the satellite condition, road configuration, the condition of the vehicle and/or other circumstances can interfere with the navigation system's ability to determine the accurate position of the vehicle.

The GPS shows the current position of the vehicle using signals sent by the GPS Satellites of the United States Department of Defense. When the vehicle is not receiving signals from the satellites, a symbol appears on the map screen. Refer to *Navigation Symbols on page 46*.

This system may not be available or interferences may occur if:

- Signals are obstructed by tall buildings, trees, large trucks, or a tunnel.
- Objects that are placed on top of or near the instrument panel.
- Satellites are being repaired or improved.
- After-market glass tinting has been applied to the vehicle's windshield.

**Notice:** Do not apply after-market glass tinting to the vehicle's windows. Glass tinting interferes with the system's ability to receive GPS signals and causes the system to malfunction. The window might have to be replaced to correct the problem. This would not be covered by the warranty.

For more information if the GPS is not functioning properly, see *If the System Needs Service on page 80* and *Problems with Route Guidance on page 80*.

## Vehicle Positioning

At times, the position of the vehicle on the map may be inaccurate due to one or more of the following reasons:

- The road system has changed.
- The vehicle is driving on slippery road surfaces such as in sand, gravel, and/or snow.
- The vehicle is traveling on winding roads.
- The vehicle is on a long straight road.

- The vehicle is approaching a tall building or a large vehicle.
- The surface streets run parallel to a freeway.
- The vehicle has just been transferred by a vehicle carrier or a ferry.
- The current position calibration is set incorrectly.
- The vehicle is traveling at high speed.
- The vehicle changes directions more than once, or when the vehicle is turning on a turn table in a parking lot.
- The vehicle is entering and/or exiting a parking lot, garage, or a lot with a roof.
- The GPS signal is not received.

- A roof carrier is installed on your vehicle.
- The vehicle is being driven with tire chains.
- The tires are replaced.
- The tire pressure for your tires is incorrect.
- The tires are worn.
- The first time the map DVD is inserted.
- The battery is disconnected for several days.
- The vehicle is driving in heavy traffic where driving is at low speeds, and the vehicle is stopped and started repeatedly.

If problems are experienced with the navigation system, see your dealer.

## Problems with Route Guidance

Inappropriate route guidance may occur under one or more of the following conditions:

- You have not turned onto the road indicated.
- Route guidance may not be available when using automatic rerouting for the next right or left turn.
- The route may not be changed when using automatic rerouting.
- There is no route guidance when turning at an intersection.
- Plural names of places may be announced occasionally.
- It may take a long time to operate automatic rerouting during high-speed driving.
- Automatic rerouting may display a route returning to the set waypoint if you are heading for a destination without passing through a set waypoint.

- The route prohibits the entry of a vehicle due to a regulation by time or season or any other regulation which may be given.
- Some routes may not be searched.
- The route to the destination may not be shown if there are new roads, if roads have recently changed, or if certain roads are not listed on the map DVD. See *Ordering Map DVDs on page 80*.

To recalibrate the vehicle's position on the map, see your dealer.

## If the System Needs Service

If the navigation system needs service and the steps listed here have been followed but there are still problems, see your dealer for assistance.

## Ordering Map DVDs

The map DVD in the vehicle is the most up-to-date information available when the vehicle was produced. The map DVD is updated periodically, provided that the map information has changed.

For any questions about the operation of the navigation system or the update process, contact the GM Nav Disc Center toll-free phone number, 1-877-NAV-DISC (1-877-628-3472) or go to the center's website, [www.gmnavdisc.com](http://www.gmnavdisc.com). For any updates or replacements, call the GM Nav Disc Center or order a new disc online. Have the Vehicle Identification Number (VIN) available when ordering to ensure the correct and most up-to-date DVD map disc for the vehicle is sent. See "Vehicle Identification Number (VIN)" in the Index of the vehicle's owner manual for more information.



After receiving the updated disc, replace the old disc in the navigation system. See “Installing the DVD Map Disc” and “Ejecting the DVD Map Disc” under *Maps on page 43*. Dispose of the old disc to avoid confusion about which disc is the most current.

## Database Coverage Explanations

Coverage area depends upon the map detail available. Some areas have greater map detail than others. The navigation system works only as well as the information provided on the map disc. See *Ordering Map DVDs on page 80* on how to obtain updated map information.

## Voice Recognition

The navigation system's voice recognition allows for hands-free operation of the navigation system, audio system, and OnStar® features. The DVD map disc must be installed in the navigation system for voice recognition to work. See “Installing the DVD Map Disc” under *Maps on page 43*. Voice recognition can be used when the ignition is on or when Retained Accessory Power (RAP) is active. See “Retained Accessory Power (RAP)” in the Index of your vehicle's owner manual for more information.

To use voice recognition:

1. Push and hold the SRCE (source) steering wheel control until you hear a beep. The audio system, if on, will mute.
2. Clearly state one of the commands listed on the following pages.

## Helpful Hints for Stating Commands

- When a multiple command is available, choose the command that best works for you.
- Words that are in brackets are optional. For example, for the command Radio [band] [select] FM, stating Radio FM or Radio select FM are both valid commands.
- When the system recognizes the command the system will:
  - either perform the function
  - ask you to confirm your choice by clearly stating “yes or no”
  - issue an error message such as “System does not recognize this command” or direct you to “Please start speaking after the beep”
- If the system is not yet ready, the system may state “System is checking the disc. Please wait.”.

- To cancel a command or if the system response does not match your verbal command, press and hold the talk symbol button. The system will reply, "System will cancel the voice recognition".
- If you experience difficulty with the system recognizing a command, try saying it more softly, and wait for a few seconds after the beep, or you may just try saying it again.
- Background noise may cause voice commands to be misunderstood, including airflow noise from wind.
- To use the voice recognition system, the map DVD must be loaded.

This system is able to recognize commands in three different languages. The system will only recognize commands based on the language selected from the Driver Information Center (DIC). See "Driver Information Center, DIC Vehicle Personalization" in the Index of your vehicle's owner manual.

### Voice Recognition Commands

The following list shows all of the voice commands available for the navigation system with a brief description of each. The commands are listed with the optional words in brackets. To use the voice commands, refer to the instructions listed previously.

### Voice Tag Commands

The following are voice tag commands you can access by clearly stating the commands exactly as they are written. You may have up to 40 voice tag entries for destinations.

**Navigation go to [destination] (voice tag), navigation select [destination] (voice tag):** These commands instruct the system to select a destination saved under the voice tag you have stored.

When a destination is requested using a voice tag, the system will state, "Press or say cancel if not correct". To cancel this voice tag destination, using voice recognition, push and hold the SRCE button on the steering wheel until you hear a beep, then say "cancel". Canceling voice tag destination by voice recognition, must be done within five seconds after the voice prompt.

If you are not currently driving on a route, the system will automatically create the voice tag destination as the final destination. If you are currently driving on a route, the system will automatically create the voice tag destination as a waypoint. Up to three waypoints can be created.

### Storing Voice Tags

From the address book entry information page, press the Add Voice tag screen button. The system will respond "Name Please?".

### Navigation Help

**Navigation Help:** This command instructs the system to assist with navigation commands.

### Display Commands

Use the following display commands to set the display mode.

**Display [set] day [mode]:** Sets the display to daytime mode.

**Display [set] night [mode]:** Sets the display to night mode.

**Display [set] auto [mode]:** Sets the display to automatic mode. The system will change between day and night mode automatically.

**System help:** Instructs the system to assist with display commands.

### Radio Commands

The following are radio commands you can access by clearly stating the commands exactly as they are written. The commands are only available when you are in one of the following audio modes, AM, FM, or XM™ (if equipped).

**Radio:** Instructs the system to turn the audio system on.

**Radio [band] [select] AM, radio [band] [select] FM, radio [band] [select] XM, radio [band] [select] satellite:** Instructs the system to go to either the AM, FM, or XM (if equipped).

**Radio [select] (frequency) AM, radio [select] (frequency) FM:** Instructs the system to go to a specific frequency on either AM or FM.

**Radio [select] (channel) XM, radio [select] (channel) satellite:** Instructs the system to go to a specific channel on the XM™ band (if equipped). The channel must be a valid channel or the system will keep the radio at the current station setting. The system pauses while searching for the channel.

**Radio help:** Instructs the system to assist with radio commands.

### CD Commands

The following are CD, MP3, and DVD commands that can be accessed by clearly stating the commands exactly as they are written.

**CD, DVD, Disc:** Select a CD, DVD, or disc that is currently loaded.

**CD, DVD, Disc, [select] track (one, two, three, etc.):** Instructs the system to select a specific track number.

### **CD, DVD, Disc select next**

**folder:** Select the next folder on the MP3 or audio DVD.

### **CD, DVD, Disc select previous**

**folder:** Select the previous folder on the MP3 or audio DVD.

### **CD help, DVD help, Disc help:**

Instructs the system to assist with CD and DVD commands.

### **Auxiliary Commands**

The following auxiliary commands can be accessed by clearly stating the commands exactly as they are written. The commands are available when the auxiliary source is available.

**Aux, Auxiliary:** Select the auxiliary device, when a device is connected.

### **OnStar® Command**

**OnStar:** Instructs the system to connect to OnStar®. You will enter the OnStar® voice recognition system. Refer to your OnStar® manual for more information.

### **Voice Help**

**Voice help:** Provides a description of help commands that are available to use.

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