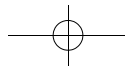
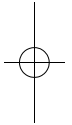
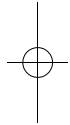
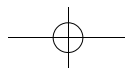


2013 Cadillac XTS Infotainment System

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Introduction

Infotainment

Object-ID=2688807 Owner=McKee, Todd
LMD=14-Jul-2011 LMB=McKee, Todd

Read the following pages to become familiar with the audio system's features.

WARNING

OBJECT-ID=2209793 LMD=22-AUG-2011

Taking your eyes off the road for extended periods could cause a crash resulting in injury or death to you or others. Do not give extended attention to infotainment tasks while driving.

This system provides access to many audio and non-audio listings.

Litho in U.S.A.
Part No. NO TRANSLATION

To minimize taking your eyes off the road while driving, do the following while the vehicle is parked:

- Become familiar with the operation and controls of the audio system.
- Set up the tone, speaker adjustments, and preset radio stations.

See "Defensive Driving" in the Index of the vehicle owner manual for more information.

The vehicle has Retained Accessory Power (RAP). With RAP, the audio system can be played even after the ignition is turned off. See "Regained Accessory Power (RAP)" in the Index of the vehicle owner manual for more information.

Theft-Deterrent Feature

Object-ID=2200853 Owner=McKee, Todd
LMD=15-Feb-2010 LMB=McKee, Todd

TheftLock[®] is designed to discourage theft of the vehicle's radio by learning a portion of the Vehicle Identification Number (VIN). The radio does not operate if it is stolen or moved to a different vehicle.

Overview

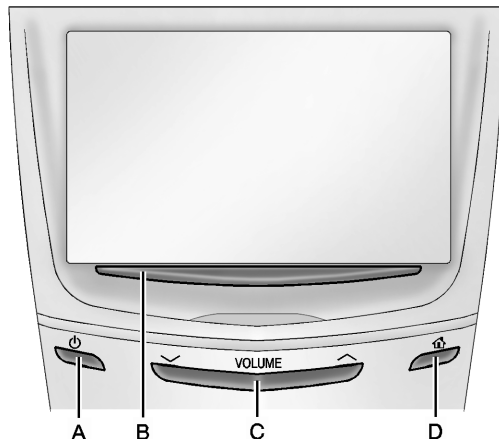
Object-ID=2688800 Owner=McKee, Todd
LMD=31-Aug-2011 LMB=McKee, Todd


Infotainment System Overview

The infotainment system is controlled by using the buttons on the faceplate, the press screen, and steering wheel controls through the instrument panel.

See "Infotainment Control Buttons" in this section for more information.

4 Infotainment System



A.  (Power)

B. (Home Page)

Infotainment Control Buttons

The buttons on the faceplate are used to start primary functions while using the infotainment system.

(Power):

- Press to turn the system on and press and hold to turn the system off.
- Press to mute the system.

2702839

Volume Bar:

The volume can be adjusted using the slide bar between the Power and Home buttons. To adjust the volume:

- Slide pad of finger on the volume bar to increase or decrease the volume.
- Press the left side of the of the volume bar to decrease the volume by one step.
- Press and hold the left side of the of the volume bar to decrease the volume continuously.
- Press the right side of the of the volume bar to increase the volume.
- Press and hold the right side of the of the volume bar to increase the volume continuously.

(Home Page): Press to go to the home page. See “Home Page” following in this section.

Touch Screen Buttons

Touch screen buttons are on the screen and highlighted when an application is available. Some screen buttons highlight when active and gray out when inactive.

Using the Touchscreen

The touchscreen can be used to go from one page to another. Pages go right or left. Some lists go up or down. To go from one page to another:

- Press on any part of the screen and quickly drag the finger across the screen to the right to go to the previous screen (if available) or to the left to go to the next screen (if available).
- Press on any part of the screen and quickly drag the finger up or down the screen to scroll up or down a list.

Home Page

The infotainment system displays a home page that makes accessing all of the applications an easy process.

◀ **(Previous):** Press to return to the previous page.

(Next): Press to go to the next page of the Home Page.

Home: From any page, press to go back to the Home Page to start a different application.

The Home Page can have up to five pages with eight icons per page and can be continuously accessed dragging to the right or left on the screen.

Home Page Features

Various functions are disabled when the vehicle is moving.

AUDIO: Press the AUDIO screen button to display the active source page. The sources available are AM, FM, XM (if equipped), CD, USB/iPod, AUX, SD Card, and

Bluetooth Audio. See *AM-FM Radio on page 10*, *Satellite Radio on page 13* or *Satellite Radio (Weather) on page 14* or *Satellite Radio (NavTraffic) on page 16* or *Satellite Radio on page 16*, *CD Player on page 20*, and *Auxiliary Devices on page 24*.

NAV: Press the NAV screen button to display the navigation map or the OnStar Turn-by-Turn destination. See *Using the Navigation System on page 35* or “Navigation” under OnStar in the Index of the vehicle owner manual for more information.

PHONE: Press the PHONE screen button to display the Phone main page. See “PHONE” in this section or *Bluetooth (Overview) on page 75* or *Bluetooth (Infotainment Controls) on page 76* or *Bluetooth (Voice Recognition) on page 80* for more information.

CLIMATE: Press the CLIMATE screen button to display the Climate main page. See “Dual Automatic

6 Infotainment System

Climate Control System” in the Index of the vehicle owner manual for more information.

TEXT: Press to access the cell phone text messaging menu. See *CELL Link Error - Link target cell (cell ID 219283) is invalid for this publication. on page ?-?* for more information.

HELP: Press the HELP screen button to display the Help main page.

SETTINGS: See “Settings” in this section for more information.

WEATHER: See “Weather” in *CELL Link Error - Link target cell (cell ID 183008) is invalid for this publication. on page ?-?* for more information.

ONSTAR: Press the ONSTAR screen button to display the OnStar main page. See “OnStar” in the Index of the vehicle owner manual for more information.

REAR CLIMATE: Press the REAR CLIMATE screen button to display the Rear Climate main page. See “Rear Climate Control System” in the Index of the vehicle owner manual for more information.

PANDORA: Press the PANDORA screen button to begin Pandora playback. See *CELL Link Error - Link target cell (cell ID 219034) is invalid for this publication. on page ?-?* for more information.

VIDEO: Press the VIDEO screen button to display the video Rear Seat Entertainment main page. See *Rear Seat Entertainment (RSE) System on page 28* for more information.

Settings

Press the Settings screen button to display the Settings menu and the following may display:


- Time and Date
- Driving Mode
- Language

- Valet Mode
- Radio
- Vehicle Settings
- Bluetooth
- Speech
- Display
- Rear Camera
- Return to Factory Settings


Time and Date

See “Setting the Time” in the Index of the vehicle owner manual for more information.

Driving Mode

Press to turn on or off. Press  to go back to the previous menu.

Language

This will set the display language in the radio, instrument panel, and voice recognition. Press Language and select language. Press  to go back to the previous menu.

Infotainment System 7

Valet Mode

Press in a four-digit code on the keypad. Press Enter go to the confirmation screen. Re-enter the four-digit code. Press LOCK to lock the system. This will also lock the vehicle storage locations, if equipped. Press in the four-digit code to unlock the system. Press ◀ to go back to the previous menu.

Radio

From the Radio screen button, the following may be displayed:

- Manage Favorites
- Number of Favorites Shown
- Audible Touch Feedback
- Auto Volume
- Maximum Startup Volume
- Audio Cue Volume

Manage Favorites: Press to highlight a favorite to edit. Press Rename to rename the favorite. Press Delete to delete the favorite.

Press and hold the station to drag it to a new location. Press Done to go back to the previous menu.

Number of Favorites Shown: To set the number of favorite to display, press Auto, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60. Auto will adjust the number of favorite locations that can be seen. Press ◀ to go back to the previous menu.

Audible Touch Feedback: Press Audible Touch Feedback to turn feedback on or off. Press ◀ to go back to the previous menu.

Auto Volume: This feature adjusts the volume based on vehicle speed. The options are OFF, Low, Medium - Low, Medium, Medium - High, or High. Press the desired volume. Press ◀ to go back to the previous menu.

Bose AudioPilot: This feature adjusts the volume based on the noise in the vehicle. The options are OFF, Low, Medium - Low, Medium,

Medium - High, or High. Press the desired volume. Press ◀ to go back to the previous menu.

Maximum Startup Volume: This feature sets the maximum startup volume. If the vehicle is started and the volume is greater than this level, the volume is adjusted to this level. To set the maximum startup volume, press + or - to increase or decrease. Press ◀ to go back to the previous menu.

Audio Cue Volume: This feature adjusts the startup and shutdown sounds. To adjust the volume, press + or - to increase or decrease. To turn this feature on or off, press OFF or ON. Press ◀ to go back to the previous menu.

Vehicle Settings

See "Vehicle Personalization" in the Index of the vehicle owner manual for more information.

8 Infotainment System

Bluetooth

Add New Device: Press to add a new phone. See *Bluetooth (Overview) on page 75* or *Bluetooth (Infotainment Controls) on page 76* or *Bluetooth (Voice Recognition) on page 80* for more information.

Device Management: Press to connect to a different phone source, disconnect a phone, or delete a phone. See *Bluetooth (Overview) on page 75* or *Bluetooth (Infotainment Controls) on page 76* or *Bluetooth (Voice Recognition) on page 80* for more information.

Ringtones: Press to change the ringtone for the specific phone. The phone does not need to be connected to change the ringtone.

Voice Mail Numbers: This feature displays the voice mail number of all of the phones. The voice mail number may be changed by pressing the EDIT button, typing in the new number, and pressing SAVE. Press ◀ to go back to the previous menu.

Text Message Alerts: This feature will turn text message alerts on or off. Press Text Message Alerts and then select OFF or ON. Press ◀ to go back to the previous menu.

See *Bluetooth (Overview) on page 75* or *Bluetooth (Infotainment Controls) on page 76* or *Bluetooth (Voice Recognition) on page 80* for more information.

Speech

From the Speech screen button, the following may be displayed:

Confidence Threshold: Press Confirm More or Confirm Less. Selecting Confirm More will allow more accurate voice recognition commands. Selecting Confirm Less will give fewer confirmations and may cause usage issues. Press ◀ to go back to the previous menu.

Prompt Length: Press Short or Long for shorter or longer voice prompts. Press ◀ to go back to the previous menu.

Audio Feedback Speed: Press Slow, Medium, or Fast for feedback speed. Press ◀ to go back to the previous menu.

Display

From the Display screen button, the following may be displayed:

Mode: To adjust to display press Auto, Day, or Night. Press ◀ to go back to the previous menu.

Calibrate Touch Screen: Press to calibrate the touchscreen and follow the prompts. Press ◀ to go back to the previous menu.

Turn Off Display: Press to turn display off. Press anywhere on the display area or any faceplate button again to turn display on.

Rear Camera

From the Rear Camera screen button, the following may be displayed:

Rear Camera Display: This feature will turn the rear camera display on or off. Press Rear Camera Display and then select OFF or ON. Press ◀ to go back to the previous menu.

Guidance Lines: This feature places lines on the screen to guide around objects. Press Guidance Lines and then select OFF or ON. Press ◀ to go back to the previous menu.

Park Assist Symbols: This feature will display symbols where objects are detected by the rear park assist system. Press Park Assist Symbols and then select OFF or ON. Press ◀ to go back to the previous menu.

See “Ultrasonic Parking Assist” and “Rear Vision Camera (RVC)” in the Index of the vehicle owner manual for more information.

Return to Factory Settings

Select Return to Factory Settings and the following list may display:

Restore Vehicle Settings: This option will restore factory vehicle personalization settings. Press Restore Vehicle Settings. Press Cancel or Continue. Press ◀ to go back to the last menu.

Clear All Private Data: This allows selection to clear all private information from the vehicle. Press Clear All Private Data. Press Cancel or Continue. Press ◀ to go back to the last menu.

Restore Radio Settings: This selection will restore factory radio settings. Press Restore Radio Settings. Press Cancel or Continue. Press ◀ to go back to the last menu.

English and Metric Unit Conversion

To change the display units between English and metric units, see “Driver Information Center (DIC)” in the Index of the vehicle owner manual for more information.

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Radio

AM-FM Radio

Object-ID=2688808 Owner=McKee, Todd
LMD=14-Jul-2011 LMB=McKee, Todd

Playing the Radio

Audio Source

⏻ (Power/Volume):

1. Press to turn the radio on or off.
2. Turn to increase or decrease the volume of the active source (i.e., current audio source, active navigation voice guidance, or traffic prompts).

The steering wheel controls can also be used to adjust the volume. See "Steering Wheel Controls" in the vehicle owner manual for more information.

To access the radio main page, press the RADIO button on the faceplate or the AUDIO screen button on the Home Page.

While on the audio main page, press the Source button repeatedly to display and cycle through the available sources (AM, FM, and XM (if equipped), CD, USB/iPod, and AUX).

Infotainment System Settings

AM

Press the RADIO button to select AM.

The following menu items may display:

Tone Settings: Touch + or – above or below Bass, Midrange, Treble, Surround. Touch ◀ to go back to the previous menu.

Tag Song: Touch Tag Song and the song being played will be transferred to iPod. If it is not attached, it will be transferred when it is connected. Touch ◀ to go back to the previous menu.

Timeshift: Touch to turn Timeshift on or off. Touch ◀ to go back to the previous menu.

Bose AudioPilot: Touch to turn Bose AudioPilot on or off. Touch ◀ to go back to the previous menu.

HD Switching: Touch to turn HD Switching on or off. Touch ◀ to go back to the previous menu.

RDS: Touch to turn RDS on or off. Touch ◀ to go back to the previous menu.

Update Station List: Touch to update the station list. Touch ◀ to go back to the previous menu.

Traffic Information: Touch to turn Traffic Information on or off. Touch ◀ to go back to the previous menu.

HD Radio I.D.: To show the HD station I.D., touch OK to continue. Touch ◀ to go back to the previous menu.

Infotainment System 11

FM

Press the RADIO button to select FM.

The following menu items may display:

Tone Settings: Touch + or – above or below Bass, Midrange, Treble, Surround. Touch ◀ to go back to the previous menu.

Tag Song: Touch Tag Song and the song being played will be transferred to iPod. If it is not attached, it will be transferred when it is connected. Touch ◀ to go back to the previous menu.

Timeshift: Touch to turn Timeshift on or off. Touch ◀ to go back to the previous menu.

Bose AudioPilot: Touch to turn Bose AudioPilot on or off. Touch ◀ to go back to the previous menu.

HD Switching: Touch to turn HD Switching on or off. Touch ◀ to go back to the previous menu.

RDS: Touch to turn RDS on or off. Touch ◀ to go back to the previous menu.

Update Station List: Touch to update the station list. Touch ◀ to go back to the previous menu.

HD Radio I.D.: To show the HD station I.D., touch OK to continue. Touch ◀ to go back to the previous menu.

XM

Press the RADIO button to select XM.

The following menu items may display:

Tone Settings: Touch + or – above or below Bass, Midrange, Treble, Surround. Touch ◀ to go back to the previous menu.

Tag Song: Touch Tag Song and the song being played will be transferred to iPod. If it is not

attached, it will be transferred when it is connected. Touch ◀ to go back to the previous menu.

Timeshift: Touch to turn Timeshift on or off. Touch ◀ to go back to the previous menu.

Tune Select: Touch Artist or Song to select. Select Manage Tune and touch Alerts Active to turn on or off. Touch station to remove and press ⏻ to delete the station. Touch ◀ to go back to the previous menu.

Bose AudioPilot: Touch to turn Bose AudioPilot on or off. Touch ◀ to go back to the previous menu.

Adjusting the Speakers

To adjust the speaker balance:

- Press the left arrow on the bottom for more sound from the left speakers or the right arrow on the bottom for more sound from the right speakers. The middle position balances the sound between the left and right speakers.

12 Infotainment System

To adjust the speaker fade:

- Press the upper arrow for more sound from the front speakers and the lower arrow for more sound from the rear speakers. The middle position balances the sound between the front and rear speakers.

EQ Settings

The EQ settings are selected through the tone menu. Press the left or right arrows to cycle through the EQ options. The available choices are Pop, Rock, Jazz, Classical, and Talk.

Finding a Station

To select the band, see “Audio Source” earlier in this section.

Turn the TUNE/MENU knob to find a radio station. To select a preset station, touch the FAV button and choose a preset button.

Seeking a Station

Press  or  to search for a station.

Changing the Sources

To change audio sources from any of the audio main pages (AM, FM, XM, CD, USB/iPod, or AUX), press the RADIO or MEDIA button on the faceplate or the Source screen button to display a pop-up of available audio sources. Touch-tap or press the RADIO or MEDIA button on the faceplate repeatedly to change the desired source.

Storing Radio Station Presets

There are a few ways to store presets.

Up to 36 preset stations can be stored. AM, FM, and XM, if equipped, can be mixed.

1. From the AM, FM, or XM main page, press and hold one of the preset screen buttons located at the bottom of the screen. After a few seconds, a beep will be

heard and the new preset information will display on that screen button.

2. Touch and hold a preset button to store the currently active station. After a few seconds, a beep will be heard and the new preset information will display on a small pop-up display at the bottom of the screen.
3. Repeat the steps for each preset.

To change the number of preset pages, see “Mixed-Band Presets” following for more information.

Recalling a Preset Station

To recall a preset station from a FAV page, do the following:

- Press the FAV button on the faceplate to display the FAV pop-up. Select the desired preset from the pop-up.
- Press the FAV screen button at the top bar to display the preset pop-up that appears at the

bottom of the page. Press one of the preset screen buttons to go to the selected preset station.

- In the AM, FM, or XM (if equipped) main page, press one of the preset screen buttons to go to the selected preset station.

Mixed-Band Presets

Each page can store six preset stations. The presets within a page can be from different radio bands.

To scroll through the pages, press the FAV button located on the faceplate or the FAV screen button on the top bar. The current page number displays above the preset buttons. The stored stations for each FAV page display on the preset buttons at the bottom of the screen. The number of FAV pages displayed can be changed in the Radio Settings in the Configuration Menu.

Satellite Radio

Object-ID=2688809 Owner=McKee, Todd
LMD=14-Jul-2011 LMB=McKee, Todd

XM™ Satellite Radio Service

Vehicles with an XM satellite radio tuner and an XM satellite radio subscription can receive XM programming.

XM is a satellite radio service 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. A service fee is required to receive the XM service. For more information, see www.xmradio.com or call 1-800-929-2100 in the U.S. In Canada, see www.xmradio.ca or call 1-877-438-9677.

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

XM Categories

XM stations are organized in categories.

To customize which XM categories are used and displayed in the system, see “Adding or Removing XM Categories” following.

Adding or Removing XM Categories

1. From the Home Page press the Config screen button.
2. Select Radio Settings from the Config Menu list.
3. Select Add/Remove XM Categories.
4. From the Add/Remove XM Categories screen, select or deselect any category to be used in XM mode. A checkmark will indicate that the category is selected.

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Turning XM Album Art On or Off

1. From the Home Page press the Config screen button.
2. Select Radio Settings from the Config Menu list.
3. Select XM Album Art to turn on or off.

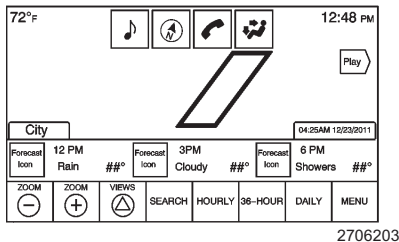
Satellite Radio (Weather)

Object-ID=2708167 Owner=Vitale, Diane
 LMD=02-Sep-2011 LMB=Vitale, Diane

The navigation system might have an XM Weather receiver. It is a subscription service provided through XM Satellite Radio. A service fee is required to receive the XM Weather service.

From the Home Page, press the Weather screen icon. The system displays the current weather page.

Current Condition

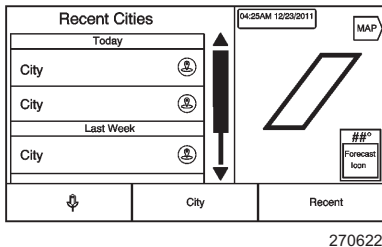


The current weather page contains the elements:

- Doppler Map with Weather
- Forecast Information
- Interaction Selector
- Status
- Time of Map Update
- Play Screen Button
- Applications Tray

Allow approximately 15 minutes for the current weather in the area to display.

Weather Regions



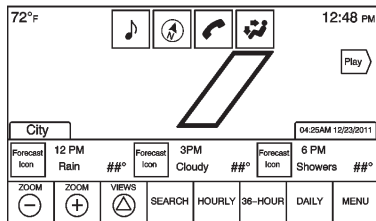
The list items displayed on the left of the split map, allows changes to the location of the weather information.

The Doppler map and forecast information displayed on the map gives a preview of the map for location that has been selected. The forecast information is for the current weather or next available forecast data.

Press the Map screen button to return to the main weather map.

Press one of the options displayed on the Interaction Selector located along the bottom of the map screen to do another function or display another type of list.

Weather Screen Not Under Guidance



2706371

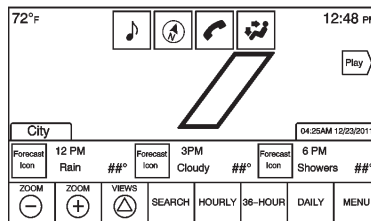
The weather application uses the navigation system to give information appropriate to what the driver is doing. When not under guidance, it defaults to the current location.

Doppler Map: The Doppler map is shown with the vehicle location in the center of the map.

City and State: The city and state is displayed for the view currently shown. This is defaulted to the current city and state that the vehicle is driving in.

Forecast Information: When in the map application, the last view for the forecast will be shown, but the initial default is for Hourly. If another type of forecast is selected, that information is updated in the forecast region.

Play Screen Button Initiates Playback



2707430

1. Press the Play screen button to playback a weather loop of the last few hours as available from

the data source. The date and time for the image are updated next to the City, State information.

2. The forecast information disappears when Play is pressed. If playback is stopped, the previous forecast information is displayed again. If the map is being played back, and the forecast option is selected, the playback is stopped and the current map is displayed.
3. If the map is being panned while it is being played back, the map stops playing and returns to the latest map.
4. If the zoom level is adjusted to a level that is not supported by video playback, the map adjusts to the closest zoom level that supports playback.

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Adjusting Map Location

- The map can be adjusted by panning to another location. The forecast information below is updated to reflect that location.
- While adjusting the map to another location, the city and state update to reflect the current location.
- If the map has been panned to a location away from the current vehicle location, press the Reset screen button to reset the map back to the current vehicle location.

Interaction Selector

The Interaction Selector at the bottom of the screen can be used to switch between different views within the weather screen.

These buttons are:

- **Zoom Out/Zoom In** — Press to adjust the view of the map.
- **Views/Map Reset** — Press to reset the map back to its original location if the map had been panned to another location.
- **Search** — Press to search for another location on the map. When the Search screen button is pressed, the last search screen that was used, displays.
- **Hourly** — Press to display the hourly forecast for the current vehicle location. A forecast icon showing things such as sun, cloudy, rain, snow, fog, etc. is shown for each period available.
- **36-Hour** — Press to display the current weather, six hour forecast, and tomorrow's weather. A forecast icon showing things such as sun, cloudy, rain, snow, fog, etc. is shown for each period available.
- **Daily** — Press to display a daily forecast for the next five days. A forecast icon showing things such as sun, cloudy, rain, snow, fog, etc. is shown for each period available.
- **Menu** — Press to display the current advisories, turn weather alerts on or off, and view the map legend.
The map legend provides what each type of color or symbol in the map indicates.

While in the weather application, a city can be stored as a favorite for a later recall. Press on the weather favorite to display the weather application with the map and forecast information for that city shown.

Satellite Radio

Object-ID=2708170 Owner=Vitale, Diane
LMD=02-Sep-2011 LMB=Vitale, Diane

The navigation system might have an XM NavTraffic receiver. It is a subscription service provided through XM Satellite Radio. A service fee is required to receive the XM NavTraffic service.

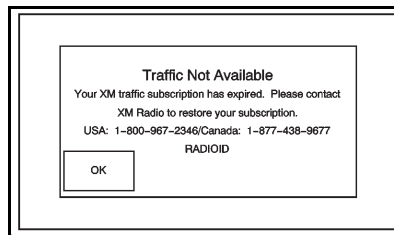
Infotainment System 17

Real-time traffic information is provided to fully integrate the navigation system to display current traffic conditions for the chosen route.

Traffic information is delivered to the vehicle by the XM Radio satellites. XM NavTraffic provides continuously updated traffic information.

XM NavTraffic currently broadcasts the traffic information for many markets nationally. The service may be available in more cities in the future. Visit www.xmnavtraffic.com for more details on local coverage.

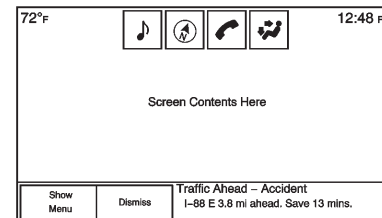
To access the traffic features, press the Traffic screen button on the Map Menu.



2706002

If Traffic is not available because there is no valid XM subscription, a pop-up displays with information on what phone number to call to reactivate the subscription along with the XM radio ID.

Traffic Alert While Under Guidance

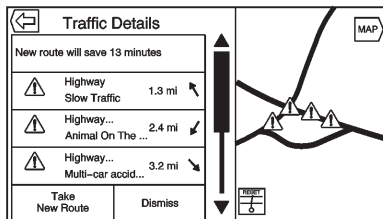


2706016

If the system receives data for a new traffic development on the route ahead, it performs a search for a better route. If the system finds a better route, it displays the information about the development along with how much time the alternate route will save in an alert. The map incident(s) can be viewed so that a decision can be made to avoid it or not.

If the alert is not acknowledged, the alert automatically times-out and it does not modify the route.

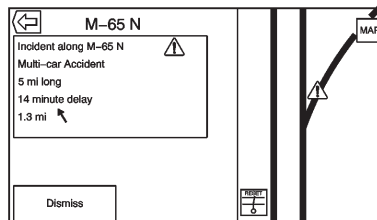
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2706020

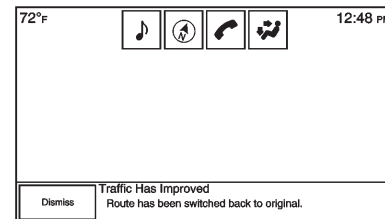
The detail view of the incident(s) shows any data about the incident(s) as well as how much time the user could save by avoiding it. The map view shows the incident(s), the original route, and the system's suggested route. If voice prompts are enabled, the incident information is read aloud. Press on the Take New Route screen button to switch over to the new route.

Traffic Alert While Not Under Guidance



2706061

While driving and not under guidance, the system can receive data indicating an accident or slow traffic flow. The information about the incident or slow traffic is displayed as an alert when the incident is three miles ahead of the driver. The incident can be viewed on the map. Press on the Dismiss screen button to return to the previous map.



2706134

When the traffic situation has improved and the change in the route has occurred, an alert displays.

Radio Reception

Object-ID=2170387 Owner=McKee, Todd
LMD=16-Aug-2010 LMB=McKee, Todd

Frequency interference and static can occur during normal radio reception if items such as cell phone chargers, vehicle convenience accessories, and external electronic devices are plugged into the accessory power outlet. If there is interference or static, unplug the item from the accessory power outlet.

FM

FM signals only reach about 16 to 65 km (10 to 40 mi). Although the radio has a built-in electronic circuit that automatically works to reduce interference, some static can occur, especially around tall buildings or hills, causing the sound to fade in and out.

AM

The range for most AM stations is greater than for FM, especially at night. The longer range can cause station frequencies to interfere with each other. For better radio reception, most AM radio stations boost the power levels during the day, and then reduce these levels during the night. Static can also occur when things like storms and power lines interfere with radio reception. When this happens, try reducing the treble on the radio.

XM™ Satellite Radio Service

XM Satellite Radio Service gives digital radio reception from coast to coast in the 48 contiguous United States, and in Canada. Just as with FM, tall buildings or hills can interfere with satellite radio signals, causing the sound to fade in and out. In addition, traveling or standing under heavy foliage, bridges, garages, or tunnels may cause loss of the XM signal for a period of time.

Cellular Phone Usage

Cellular phone usage may cause interference with the vehicle's radio. This interference may occur when making or receiving phone calls, charging the phone's battery, or simply having the phone on. This interference can cause an increased level of static while listening to the radio. If static is received while listening to the radio, unplug the cellular phone and turn it off.

Backglass Antenna

Object-ID=2170390 Owner=McKee, Todd
LMD=12-Nov-2008 LMB=McKee, Todd

The AM-FM antenna is integrated with the rear window defogger, located in the rear window. Make sure that the inside surface of the rear window is not scratched and that the lines on the glass are not damaged. If the inside surface is damaged, it could interfere with radio reception. For proper radio reception, the antenna connector needs to be properly attached to the post on the glass.

If a cellular telephone antenna needs to be attached to the glass, make sure that the grid lines for the AM-FM antenna are not damaged. There is enough space between the grid lines to attach a cellular telephone antenna without interfering with radio reception.

Notice: Using a razor blade or sharp object to clear the inside rear window can damage the rear window antenna and/or the rear

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window defogger. Repairs would not be covered by the vehicle warranty. Do not clear the inside rear window with sharp objects.

Notice: Do not apply aftermarket glass tinting with metallic film. The metallic film in some tinting materials will interfere with or distort the incoming radio reception. Any damage caused to your backglass antenna due to metallic tinting materials will not be covered by the vehicle warranty.

Multi-Band Antenna

Object-ID=2380210 Owner=McKee, Todd
LMD=15-Feb-2010 LMB=McKee, Todd

The antenna located on the roof of the vehicle is used for the OnStar, XM Satellite Radio Service System, and GPS (Global Positioning System), if the vehicle has these features. Keep the antenna clear of obstructions for clear reception. If the vehicle has a sunroof and it is open, the performance of OnStar, XM, and GPS can be affected.

Audio Players

CD Player

Object-ID=2688810 Owner=McKee, Todd
LMD=14-Jul-2011 LMB=McKee, Todd

The player can be used for CD and MP3 audio.

With the vehicle on, insert a disc into the slot, label side up. The player pulls it in and begins playing. While playing, the navigation system is available.

The system is capable of playing:

- Most audio CDs
- CD-R
- CD-RW
- MP3 or unprotected WMA formats

When playing any compatible recordable disc, the sound quality can be reduced due to disc quality, the method of recording, the quality of the music that has been recorded, or the way the disc has been handled.

There can be increased skipping, difficulty in recording tracks, difficulty in finding tracks, and/or difficulty in loading and ejecting. If these problems occur, check the disc for damage or try a known good disc.

To avoid damage to the CD player:

- Do not use scratched or damaged discs.
- Do not apply labels to discs. The labels could get caught in the player.
- Insert only one disc at a time.
- Keep the loading slot free of foreign materials, liquids, and debris.
- Use a marking pen to label the top of the disc.

Loading and Ejecting Discs


To load a disc:

1. Turn the vehicle on.

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2. Insert a disc into the slot, label side up. The player pulls it in the rest of the way. If the disc is damaged or improperly loaded, there is an error and the disc ejects.

The disc automatically plays once loaded.

Press  to eject a disc from the CD player. If the disc is not removed within a short period of time, it is automatically pulled back into the player.

Playing an Audio CD

1. Press the CD screen button on the Home Page or select CD from the source pop-up to display the CD main page.
2. From the CD screen, press the Menu screen button to display the menu options.
3. Press to select the desired option.

On the CD main page a track number displays at the beginning of each track. Song, Artist, and Album information displays when available.

Use the following controls to play the disc:

(Seek Down):

- Press to seek to the beginning of the current or previous track. If the track has been playing for less than five seconds, it seeks to the previous track. If longer than five seconds, the current track starts from the beginning.
- Press and hold to fast reverse through a track. Release the button to return to playing speed. Elapsed time displays.

(Seek Up):

- Press to seek to the next track.
- Press and hold to fast forward through a track. Release the button to return to playing speed. Elapsed time displays.

MENU: Turn to the right or left to select the next or previous track. Press this knob to select the ist. If a track is selected from the menu, the system plays the track and returns to the CD screen.

Error Messages

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

- The disc has an invalid or unknown format.
- The disc is very hot. Try the disc again when the temperature returns to normal.
- The road is very rough. Try the disc again when the road is smoother.
- The disc is dirty, scratched, wet, or upside down.
- The air is very humid. Try the disc again later.
- There was a problem while burning the disc.

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- The label is caught in the CD player.

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

If any error continues, contact your dealer.

MP3

Object-ID=2688811 Owner=McKee, Todd
LMD=14-Jul-2011 LMB=McKee, Todd

Playing an MP3 CD

To play an MP3 CD, follow the same instructions as "Playing an Audio CD."

The following guidelines must be met when creating an MP3 disc, otherwise the CD might not play:

- Sampling rate: 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, and 48 kHz.
- Bit rates supported: 8, 16, 24, 32, 40, 48, 56, 64, 80, 96, 112, 128, 144, 160, 192, 224, 256, and 320 kbps.
- Maximum number of folders: eight folders with 255 files per folder.
- Maximum of 1,000 files on a disc.
- Recorded on a CD-R or CD-RW with a maximum capacity of 700 MB.
- The Artist/Album/Song Titles/Genre information requires a CD to be fully scanned before the music navigator works with these menus.

MP3 Music Menu

Press the Menu screen button while that source is active to access the menu.

Press any of the following buttons on the MP3 Menu:

Shuffle Songs: Press to play the tracks randomly. Press again to stop shuffle.

Playlists: Press to view the playlists stored on the disc. Select a playlist to view the list of all songs in

that playlist. There might be a delay before the list displays. Select a song from the list to begin playback.

Artists: Press to view the list of artists stored on the disc. Select an artist name to view a list of all songs by the artist. There might be a delay before the list displays. Select a song from the list to begin playback.

Albums: Press to view the albums on the disc. Select the album to view a list of all songs on the album. There might be a delay before the list displays. Select a song from the list to begin playback.

Song Titles: Press to display a list of all songs on the disc. Songs are displayed as stored on the disc. There might be a delay before the list displays. To begin playback, select a song from the list.

Genres: Press to view the genres. Select a genre to view a list of all songs of that genre. Select a song from the list to begin playback.

Folders: Press to open a folder list to access the files within the folder structure.

Root Directory

The root directory is treated as a folder. All files contained directly under the root directory are accessed prior to any root directory folders.

Empty Folders

If a root directory or folder is empty or contains only folders, the player advances to the next folder in the file structure that contains a compressed audio file. The empty folder(s) are not displayed or numbered.

No Folder

When the CD only contains compressed audio files without any folders or playlists, all files are under the root folder.

File System and Naming

The song titles, artists, albums, and genres are taken from the file's ID3 tag and are only displayed if present in the tag. If a song title is not present in the ID3 tag, the radio displays the file name as the track name.

Preprogrammed Playlists

The radio recognizes preprogrammed playlists; however, there is no editing capability. These playlists are treated as special folders containing compressed audio song files.

Steering Wheel Controls

Object-ID=2711695 Owner=McKee, Todd
LMD=12-Sep-2011 LMB=McKee, Todd

Steering Wheel Controls

The audio steering wheel controls can be used to control the radio functions through the instrument panel (IP).

There are two types of IPs; Base and Uplevel. Both IPs have three areas to display information.

When in Valet Mode, the steering wheel controls are disabled.

◀: Press to go to the previous area in the IP display. Press to go back to the previous menu.

▶: Press to go to the next area in the IP display.

▲: Press to go to up the in a list. Press and hold to go up through each group in the list by letter.

▼: Press to go to down in a list. Press and hold to go down through each group in the list by letter.

SEL: Press to select a highlighted menu item.

^ **/FAV (Favorite Next):** Press to go to the next favorite page.

v **/FAV (Favorite Previous):** Press to go to the previous favorite page.

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Favorites Pages

Displays the favorites pages. Press \wedge /FAV or \vee /FAV to scroll through the favorites pages.

Use \blacktriangleleft , \blacktriangleright , \blacktriangle , or \blacktriangledown to scroll through the stations on each page. Press SEL to select a station.

Base IP

Uplevel IP

Auxiliary Devices

Object-ID=2688812 Owner=McKee, Todd
LMD=14-Jul-2011 LMB=McKee, Todd

This vehicle has an auxiliary input jack in the center console. Possible auxiliary audio sources include:

- Laptop computer
- MP3 player
- Tape player

This jack is not an audio output. Do not plug headphones into the auxiliary input jack. Drivers are

encouraged to set up any auxiliary device while the vehicle is in P (Park).

Connect a 3.5 mm (1/8 in) cable from the auxiliary device to the auxiliary input jack. When a device is connected, the system automatically begins playing audio from the device over the vehicle speakers.

If an auxiliary device has already been connected, but a different source is currently active, press the Now Playing screen button on the Home Page, then press Source repeatedly to cycle through all of the available audio source screens, until the AUX source screen is selected.

Playing from a USB

A USB mass storage device or Microsoft Transfer Protocol (MTP) device can be connected to the USB port.

The USB port is in the center console.

The USB icon displays when the USB device is connected.

USB MP3 Player and USB Drives

- The USB MP3 players and USB drives connected must comply with the USB Mass Storage Class specification (USB MSC).
- Only USB MP3 players and USB drives with a sector size or 512 bytes and a cluster size smaller or equal to 32 kbytes in the FAT32 file system are supported.
- Hard disk drives are not supported.
- The following restrictions apply for the data stored on a USB MP3 player or USB device:
 - Maximum folder structure depth: 11 levels.
 - Maximum number of MP3/WMA files that can be displayed: 1,000

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- WMA with Digital Rights Management (DRM) from online music shops cannot be played. WMA files can only be played back safely if they were created with Windows Media Player version 8 or later.
 - Applicable playlist extensions are: .m3u, .pls.
 - Playlist entries must be in the form of relative paths.
 - The system attribute for folders/files that contain audio data must not be set.

To play a USB device, do one of the following:

- Connect the USB and it begins to play.
- Press the Now Playing screen button on the Home Page, then press the SOURCE button on the faceplate repeatedly to cycle through all of the available audio source screens, until the USB source screen is selected.

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

⏮ (Seek Down):

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.

⏭ (Seek Up):

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

USB Menu

Press any of the following buttons on the USB Menu:

Shuffle Songs: Press to play the tracks randomly. Press again to stop shuffle.

Playlists: Press to view the playlists stored on the USB. Select a playlist to view the list of all songs in that playlist. There might be a delay before the list displays. Select a song from the list to begin playback.

Artists: Press to view the list of artists stored on the USB. Select an artist name to view a list of all albums by the artist. There might be a delay before the list displays. To select a song, touch All Songs then select a song or touch an album then select a song from the list to begin playback.

Albums: Press to view the albums on the USB. Select the album to view a list of all songs on the album.

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There might be a delay before the list displays. Select a song from the list to begin playback.

Song Titles: Press to display a list of all songs on the USB. Songs are displayed as stored on the disc. There might be a delay before the list displays. To begin playback, select a song from the list.

Genres: Press to view the genres on the USB. Select a genre to view a list of all songs of that genre. Select a song from the list to begin playback.

Folders: Press to open a folder list to access the files within the folder structure.

File System and Naming

The song titles, artists, albums, and genres are taken from the file's ID3 tag and are only displayed if present in the tag. If a song title is not present in the ID3 tag, the radio displays the file name as the track name.

Playing from an iPod®

This feature supports the following iPod models:

- iPod nano (1st, 2nd, 3rd, and 4th generation)
- iPod with video (5.0 and 5.5 generation). Video is not shown; only audio is supported.
- iPod classic (6th generation)
- iPod touch (1st and 2nd generation)

There may be problems with operation and function in the following situations:

- When connecting an iPod on which a more recent version of the firmware is installed than is supported by the infotainment system.
- When connecting an iPod on which firmware from other providers is installed.

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 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 vehicle is on. When the vehicle is 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 an unsupported model, it can still be listened to in the vehicle by connecting to the auxiliary input jack using a standard 3.5 mm (1/8 in) stereo cable.

iPod Menu

Shuffle Songs: Press to play the tracks randomly. Press again to stop shuffle.

Press any of the following buttons on the iPod Menu:

Playlists:

1. Press to view the playlists 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 to begin playback.

Artists:

1. Press to view the artists 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 to begin playback.

Albums:

1. Press to view the albums stored on the iPod.
2. Select an album name to view a list of all songs on the album or select All Songs to view all songs by the artist.

3. Select the desired song from the list to begin playback.

Song Titles:

1. Press to view a list of all songs stored on the iPod.
2. Select the desired song from the list to begin playback.

Genres:

1. Press to view the genres stored on the iPod.
2. Select a genre name to view a list of artists of that genre.
3. Select an artist to view albums or All Songs to view all songs of that genre.
4. Select album to view songs.
5. Select the desired song from the list to begin playback.

Podcasts:

1. Press to view the podcasts stored on the iPod.
2. Select a podcast name to play the desired podcast.

Composers:

1. Press to view the composers stored on the iPod.
2. Select a composer name to view a list of all songs by that composer.
3. Select the desired song from the list to begin playback.

Audio Books:

1. Press to view the audio books stored on the iPod.
2. Select an audio book name to view a list of all audio books.
3. Select the desired audio book from the list to begin playback.

Playing from an iPhone®

This feature supports the following iPhone model:

- iPhone (3G – 3GS)

To use the iPhone, follow the same instructions as stated earlier for using an iPod.

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Rear Seat Infotainment

Rear Seat Entertainment (RSE) System

Object-ID=2711684 Owner=McKee, Todd
LMD=12-Sep-2011 LMB=McKee, Todd

The vehicle may have a DVD Rear Seat Entertainment (RSE) system. The RSE system works with the vehicle's infotainment system. The DVD player is part of the front radio. The RSE system includes a radio with a DVD player, two rear seat video display screens, audio/video jacks, two wireless headphones, and a remote control.

Before Driving

The RSE is for rear seat passengers only. The driver cannot safely view the video screen while driving.

In severe or extreme weather conditions the RSE system may not work until the temperature is within

the operating range. The operating range is above -20°C (-4°F) and below 60°C (140°F). If the temperature is outside of this range, heat or cool the vehicle until it is within the operating range.

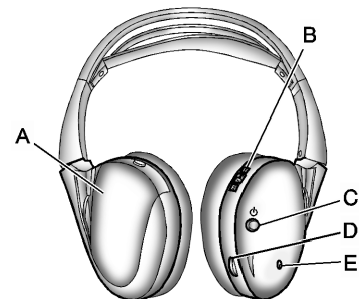
Global Off

Depending on the infotainment system, the RSE system may have a Global Off feature. The Global Off feature disables all RSE system features. Press and hold the radio power button for more than three seconds for Global Off to disable the RSE features. A padlock icon may display on the infotainment screen when the Global Off feature is on. On some infotainment systems, the Global Off feature can be turned off by performing one of the following:

- Press and hold the radio power button for more than three seconds.
- Insert or eject any disc.
- Insert a DVD video disc.

- Press the Remote Control power button.
- Press the MEM/CD/AUX button or the $\blacktriangleright/\parallel$ button when a DVD video disc is in the player.
- Press the SRC button on the steering wheel when a DVD video disc is in the player.
- Cycle the ignition.

Headphones



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- A. Battery cover
- B. Channel 1 or 2 switch
- C. Power button
- D. Volume control
- E. Power indicator light

RSE includes two 2-channel wireless headphones. Channel 1 is dedicated to the DVD player, and Channel 2 is dedicated to RSA selections. The headphones are used to listen to various multi-media. If the vehicle is not equipped with RSA, then Channel 2 is dedicated to any external auxiliary device connected to the rear A/V jacks. The wireless headphones have a power button, Channel 1 or 2 switch, and a volume control. Turn the headphones off when not in use.

Push the power button to turn on the headphones. A light on the headphones comes on. If the light does not come on, check the batteries. Intermittent sound or static

can also indicate weak batteries. See "Battery Replacement" later in this section for more information.

Infrared transmitters are on the top of the left seatback video screen. The headphones shut off automatically to save the battery power if the RSE system and RSA are shut off or if the headphones are out of range of the transmitters for more than three minutes. Moving too far forward or stepping out of the vehicle can cause the headphones to lose the signal or have static.

To adjust the volume on the headphones, use the volume control.

For best audio performance, the headphones must be worn correctly, with the headband over the top of the head. L (Left) and R (Right) are above the ear pads and are indicators as to how the headphones should be placed on the head.

Notice: Do not store the headphones in heat or direct sunlight. This could damage the headphones and repairs will not be covered by the warranty. Storage in extreme cold can weaken the batteries. Keep the headphones stored in a cool, dry place.

If the foam ear pads attached to the headphones become worn or damaged, the pads can be replaced separately from the headphone set. To purchase replacement ear pads, call 1-888-293-3332, then prompt zero (0), or contact your dealer.

Battery Replacement

To change the batteries:

1. Loosen the screw to the battery door located on the left side of the headphones.
2. Slide the battery door open.
3. Replace the two AAA batteries.
4. Replace the battery door and tighten the screw.

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Remove the batteries if the headphones are not going to be used for a long period of time.

Audio/Video (A/V) Jacks

The A/V jacks may be located on the rear of the floor console. They allow audio or video cables to be connected from an auxiliary device such as a camcorder or a video game system.

The A/V jacks are color coded:

- Yellow for video input.
- White for left audio input.
- Red for right audio input.

Power for auxiliary devices is not supplied by the radio system.

To use the auxiliary inputs of the RSE system:

1. Connect the auxiliary device cables to the A/V jacks.
2. Power on both the auxiliary device and the RSE video screen.

Audio Output

Audio from the DVD player or auxiliary inputs can be heard through the following:

- Wireless headphones
- Vehicle speakers
- Vehicle wired headphone jacks on the rear seat audio system, if the vehicle has this feature.

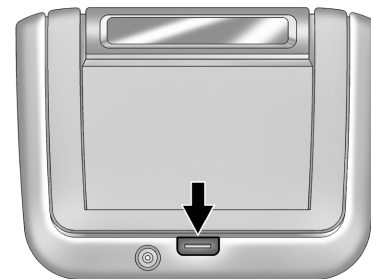
The RSE system transmits the audio signal to the wireless headphones if an audio signal is available. See “Headphones” earlier in this section for more information.

Audio can be heard from the wired headphone jacks on the RSA system by selecting the desired source from the RSA system, if the vehicle has this feature.

The front seat passengers are able to listen to playback from the A/V jacks through the vehicle speakers by selecting Rear A/V as the source on the radio.

Video Screens

The video screens are located in the back of the driver and front passenger seats.



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To use the video screen:

1. Push the release button located on the seatback console.
2. Move the screen to the desired viewing position.

Push the video screen down into its locked position when it is not in use. The screen turns off automatically.

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Only the left RSE seatback console contains the infrared transmitters for the wireless headphones. They may be visible as eight illuminated LEDs. These LEDs are not on the right video screen. Both seatback consoles contain an infrared receiver for the remote control. They are located at the top of each console.

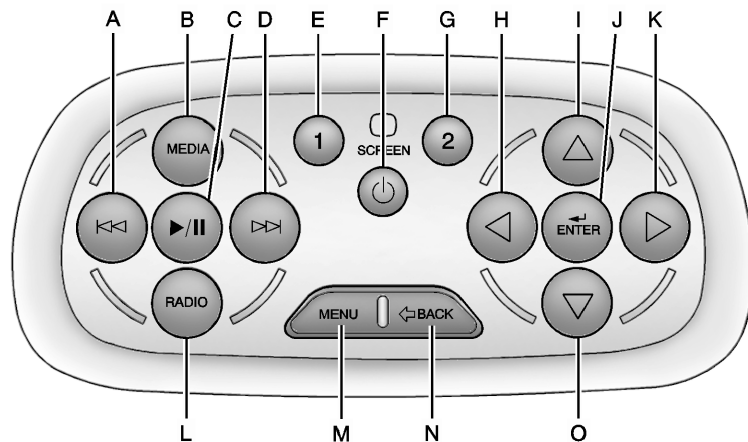
Notice: Avoid directly touching the video screen, as damage may occur. See “Cleaning the Video Screens” later in this section for more information.

Video Screen Input Jack

Each video screen is equipped with a video input jack to allow video cables to be connected from an auxiliary device such as a camcorder or a video game system. This signal will override any video provided by the RSE system; either

the DVD or Auxiliary A/V jack source. The RSE system must be on for this input to operate.











Remote Control




Remote Control Buttons

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- | | | |
|---|--|--|
| <p>A.  (Previous/Reverse)</p> <ul style="list-style-type: none"> • Radio: Press to seek the previous radio station. • CD: Press to seek the previous track. • DVD: Press to seek the previous chapter. <p>B. MEDIA</p> <ul style="list-style-type: none"> • Press to scroll through the media sources including CD, AUX, or DVD. <p>C.  (Play/Pause)</p> <ul style="list-style-type: none"> • Press to start playing. Press to pause. Press again to continue playing. <p>D.  (Next/Forward)</p> <ul style="list-style-type: none"> • Radio: Press to seek the next radio station. • CD: Press to seek the next track. • DVD: Press to seek the next chapter. <p>E. SCREEN 1</p> | <ul style="list-style-type: none"> • Press to select the left screen. <p>F.  (Power)</p> <ul style="list-style-type: none"> • Press to turn the video screens on and off. <p>G. SCREEN 2</p> <ul style="list-style-type: none"> • Press to select the right screen. <p>H. </p> <ul style="list-style-type: none"> • Press to scroll down through a list. • Radio and CD: Press to go to the next station or track. • Press to go to the previous menu. <p>I. </p> <ul style="list-style-type: none"> • Press to scroll up a list. <p>J.  /ENTER</p> <ul style="list-style-type: none"> • Press to select the highlighted choice in any menu. | <ul style="list-style-type: none"> • Press and hold for quick play. <p>K. </p> <ul style="list-style-type: none"> • Press to scroll down a list. Press to select the highlighted menu option. • Radio and CD: Press to go to the next station or track. <p>L. RADIO</p> <ul style="list-style-type: none"> • Press to scroll through the radio sources including AM, FM, or XM. <p>M. MENU</p> <ul style="list-style-type: none"> • Press to display the menu and settings menu of the current band or media. <p>N.  BACK</p> <ul style="list-style-type: none"> • Press to go back to the previous menu. <p>O. </p> <ul style="list-style-type: none"> • Press to go down a list. |
|---|--|--|




To use the remote control, aim it at the transmitter window at either seatback console and press the button. Direct sunlight or very bright light could affect the ability of the RSE transmitter to receive signals from the remote control. Check the batteries if the remote control does not seem to be working. See “Battery Replacement” later in this section. Objects blocking the line of sight could also affect the function of the remote control.

If a CD, DVD, or MP3 disc is in the Radio DVD slot, the remote control  button can be used to turn on the video screen display and start the disc. The infotainment system can also turn on the video screen display.

Changing the RSE Video Screen Settings

The brightness can be changed from the setup menu using the remote control. To change a setting:

1. Press MENU.

2. Press Brightness and then use  or  to adjust the settings.
3. Press  BACK to exit the setup menu.

Notice: Storing the remote control in a hot area or in direct sunlight can damage it, and the repairs will not be covered by the warranty. Storage in extreme cold can weaken the batteries. Keep the remote control stored in a cool, dry place.

Replacing the Remote Control

If the remote control becomes lost or damaged, a new universal remote control can be purchased. Use a Toshiba® code set for replacement universal remote controls.

Battery Replacement

To change the remote control batteries:

1. Slide back the rear cover on the remote control.

2. Replace the two batteries in the compartment.
3. Replace the battery cover.

Remove the batteries from the remote control if unused for an extended period of time.

No power: The ignition might not be turned to ON/RUN or ACC/ACCESSORY.

The picture does not fill the screen. There are black borders on the top and bottom or on both sides or it looks stretched out: Check the display mode settings in the setup menu by pressing the display menu button on the remote control.

In auxiliary mode, the picture moves or scrolls: Check the auxiliary input connections at both devices.

The remote control does not work: Check to make sure there is no obstruction between the remote control and the transmitter window.

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Check the batteries to make sure they are not dead or installed incorrectly.

After stopping the player, I push Play but sometimes the DVD starts where I left off and sometimes at the beginning: If

the stop button was pressed one time, the DVD player resumes playing where the DVD was stopped. If the stop button was pressed two times, the DVD player begins to play from the beginning of the DVD.

The auxiliary source is running but there is no picture or sound: Check that the RSE video screen is in the auxiliary source mode by pressing the AUX button on the remote control. Check the auxiliary input connections at both devices.

Sometimes the wireless headphone audio cuts out or buzzes: Check for obstructions, low batteries, reception range, and interference from cellular telephone towers or by using a cellular

telephone in the vehicle. Check that the headphones are on correctly using the L (left) and R (right) on the headphones. Check that the headphones are positioned properly with the headband across the top of the head.

I lost the remote and/or the headphones: See your dealer for assistance.

The DVD is playing, but there is no picture or sound: Check that the RSE video screen is sourced to the DVD player by pressing the AUX button on the remote control.

DVD Display Error Messages

The DVD display error message depends on which radio the vehicle has. The video screen may display one of the following:

Disc Load/Eject Error or Mechanical Error: There are disc load or eject problems.

Disc Format Error or Unknown Format: The disc is inserted with the disc label wrong side up, or the disc is damaged.

Disc Region Error or Disc Error: The disc is not from a correct region.

No Disc Inserted: No disc is present.

DVD Distortion

Video distortion can occur when operating cellular phones, scanners, CB radios, Global Position Systems (GPSs)*, two-way radios, mobile faxes, or walkie talkies.

It might be necessary to turn off the DVD player when operating one of these devices in or near the vehicle.

*Excludes the OnStar® System.

Cleaning the RSE Seatback Console

Use only a clean cloth dampened with clean water to clean the RSE seatback console surface.

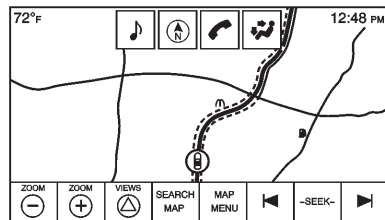
Cleaning the Video Screens

Use only a clean cloth dampened with clean water. Use care when touching or cleaning the screens as damage could result.

Navigation

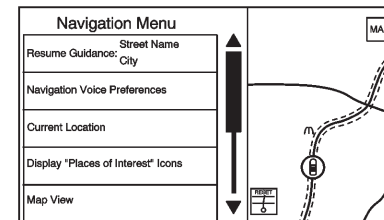
Using the Navigation System

Object-ID=2702316 Owner=Vitale, Diane
LMD=02-Sep-2011 LMB=Vitale, Diane



2685184

Press the MAP button on the Home Page or press Map Menu from a map view to access the Navigation Menu.



2693906

A list of additional navigation functions display:

- Resume Guidance
- Navigation Voice Preference
- Current Location
- Display "Places of Interest" Icons
- Map View
- Routing Preferences
- Traffic List/Preferences
- POI Alerts
- Personal Data

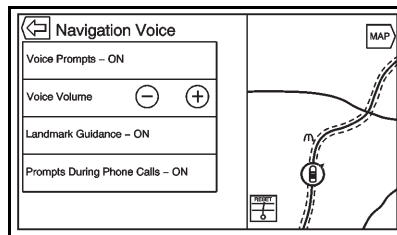
Suspend/Resume Guidance

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- Press the Suspend/Resume Guidance screen button to suspend or resume route guidance. The Suspend/Resume Guidance is a two-line list item contains the address or name of the destination being routed to.
- Press the Suspend Guidance list item to end route guidance. No further prompts will be given. The list item then changes to Resume Guidance.
- The last location that the system has provided guidance to can be resumed by pressing on this list item.
- If the route includes waypoints, the entire route can be suspended using the Suspend Guidance list item. When Resume Guidance is pressed, all waypoints are resumed for guidance.

Navigation Voice Preferences:

Press the Navigation Voice Preferences list item to adjust the voice preferences.



2693963

The following options can be adjusted:

- Voice Prompts On/Off
- Voice Volume
- Landmark Guidance On/Off
- Prompts During Phone Calls On/Off

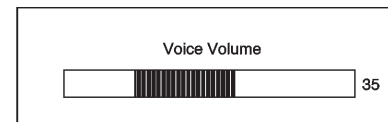
Voice Prompts

Press the Voice Prompts list item to toggle voice prompts On and Off.

Voice Volume

Adjust the loudness of the speech recognition and/or audio feedback by pressing on the – or + button. If a maneuver prompt is being played, and the main volume is adjusted, the prompt volume will update and be saved.

The voice volume will have a minimum value of 10 steps. Each press of the voice volume – or + button will decrease or increase the volume by five steps.



2693972

As the volume of the voice guidance is being adjusted, a quick status bar displays, showing the volume setting.

Landmark Guidance

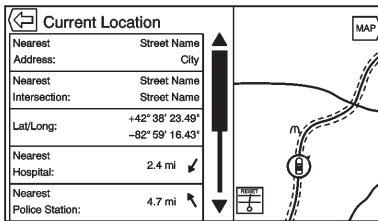
Press to toggle the landmark guidance On and Off. If Landmark Guidance is On, the voice prompts will be played with a landmark prompt, if available. If Landmark Guidance is Off, traditional guidance prompts are played, which will give distance information in the prompts.

Prompts During Phone Calls

When enabled, the system plays a shorter prompt while on a phone call. This setting can be configured as to whether a prompt would be heard during a phone conversation.

When this setting is Off, only the short alert tone is played when approaching the maneuver.

Current Location: Press the Current Location list item to display a Current Location list.



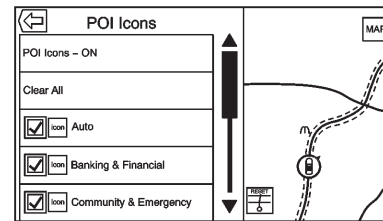
2693955

The following information is displayed on the Current Location list:

- Nearest Address
- Nearest Intersection
- Lat/Long
- Nearest Hospital
- Nearest Police Station
- Nearest Gas Station
- Nearest Roadside Assistance

Pressing on any of the options will display the destination details view for that location and begin guidance to the selected location.

Display “Places of Interest” Icons: Places of Interest (POI) icons can be displayed on the map using this view.



2693995

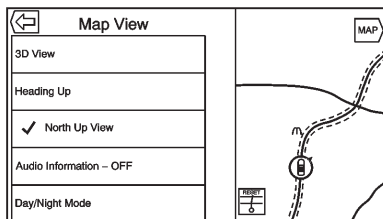
- The POI icons can be turned On and Off. Press the check box next to the POI icon to enable route guidance of that selection.
- Press Clear All to reset the icons that are displayed on the map.
- A subcategory can be selected instead of the entire category. Press the list item itself rather than the check box. The subcategories will display. Select any of those categories for route

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guidance or continue to navigate down the hierarchy to select finer categories.

- When a higher-level category has some of its subcategories selected, the checkmark next to it is grayed out. This indicates that some of the categories below are shown.

Map View: The way a map is viewed can be adjusted by pressing on this list item. Press the list item to select the desired map view. A checkmark appears to indicate a view has been selected.



2694106

3D View

The 3D View is a form of the Heading Up view but it includes perspective. Map items will appear larger as the vehicle comes closer, while on a route.

Heading Up View

The Heading Up View keeps the vehicle's current heading at the top of the view. The vehicle icon always faces the top of the view as the map rotates.

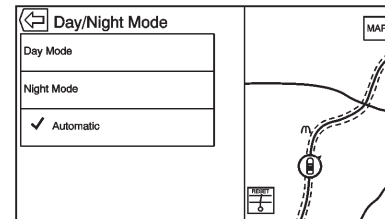
North Up View

The North Up View keeps north at the top of the view. The vehicle icon is placed in the center of the view and rotates to indicate the heading for the vehicle.

Audio Information On/Off

Press this list item to toggle On and Off the audio information view on the main map view.

Day/Night Mode



2694139

Press this list item to access the Day/Night Mode menu.

The options are:

- Day Mode — Select to brighten the map background.
- Night Mode — Select to darken the map background.
- Automatic — Select to adjust the screen background automatically depending on the exterior lighting conditions.

Routing Preferences: Press the Routing Preferences list item to access the Routing Preferences

menu. Options on how the routes are created for route guidance are listed on this menu.

Route Style

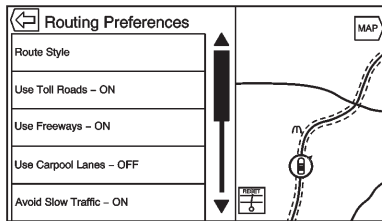
Press this list item to change the route type preferences.

These options are:

- Fast (default)
- Eco Friendly
- Short
- Offer Scenic Routes On/Off
- Configure Eco Profile

The Configure Eco Profile can be used to configure two parameters for the Eco Friendly route. These parameters are roof load and trailer. For each parameter, the options are None, Small, Medium, and Large. The options toggle with each press of the list item. The initial default for both is None.

These preferences are used for all routes generated.



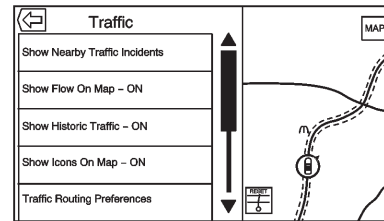
2694152

Route segment preferences are other options showing on the Routing Preferences menu.

This includes:

- Use Toll Roads On/Off
- Use Freeways On/Off
- Use Carpool Lanes On/Off
- Use Tunnels On/Off
- Use Time Restricted Roads On/Off

Traffic: Press this List item to browse the traffic in the area as well as adjust the traffic settings.

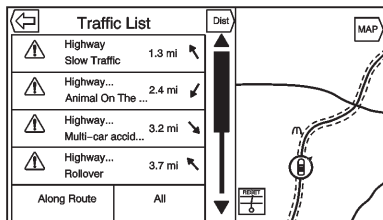


2694155

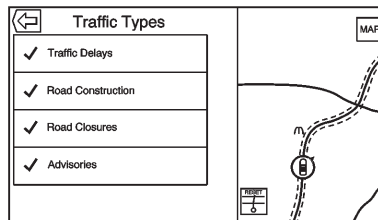
There are several options on the Traffic menu. These are:

- Show Nearby Traffic Incidents On/Off
- Show Flow On Map On/Off
- Show Historic Traffic On/Off
- Show Icons On Map On/Off
- Traffic Routing Preferences
- Traffic Types

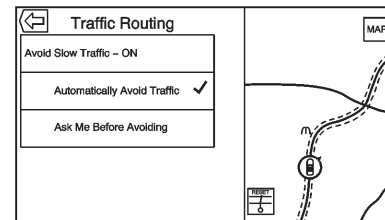
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2694167



2694179



2694203

1. Press the Show Nearby Traffic Incidents to access the Traffic List menu. This menu displays the incident symbol, highway symbol, and highway name, along with the distance and heading to the incident.
2. Press on the incident to display additional details about the incident as well as an option to avoid that particular incident.

Traffic Types

1. Press the Traffic Types list item to access the Traffic Types menu.
2. The system can be configured to filter out certain types of traffic events. If a particular type has been turned off, the system does not display it on the map, and does not alert the driver.

Traffic Routing Preferences

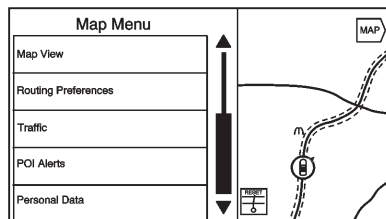
The system can be configured as to how it reacts when receiving traffic information. Press Traffic Routing Preferences to access the Traffic Routing menu.

When this setting is Off, the system will never take traffic conditions into account when creating routes. In addition, the two options below are grayed out. If one of the grayed out options are pressed, it automatically turns the traffic avoidance feature On and performs the desired selection.

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The two options, “Ask Me Before Avoiding” and “Automatically Avoid Traffic” will adjust the system as follows:

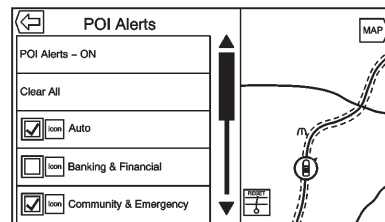
- If the Automatically Avoid Traffic list item is pressed, the system will automatically adjust the route based on traffic without notifying the user.
- If the Ask Me Before Avoiding” list item is pressed, the system will always use Alerts to show when there is an incident and allow it to be avoided by pressing the avoid button.



2694214

If the Traffic list item is pressed from the Map Menu and Traffic is not available because XM subscription is not valid, a popup will display with information on how to reactivate the subscription along with the XM radio ID.

POI Alerts



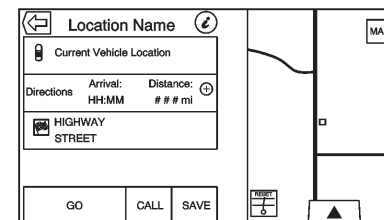
2695530

1. Press POI Alerts from the Map Menu to get access to the POI Alerts list.
2. Press POI Alerts On. The system can be configured to send an alert when approaching a POI in a category that has been turned On.

3. Press the POI Alerts Off to turn off an alert.
4. Press Clear All to turn all alerts Off.

When the system has detected that it is near a POI that is in a category, the POI Alert is shown. The alert contains the category name, POI name, and POI icon for that POI.

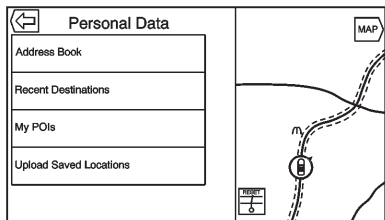
When a selected POI is along the path ahead of the vehicle, the system gives an alert showing POI information so that a decision can be made whether or not to route to that POI.



2696098

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If Show POI is selected, the destination details view for that POI is shown.



2696114

Personal Data: Data that the system has saved during the course of using the navigation system can be managed through:

- Address Book Entries
- Recent Destinations
- My POIs
- Upload Saved Locations

Address Book Entries

- Press Address Book to either edit the address book or delete all entries.
- Press Delete All Entries to delete the entire address book. A popup displays asking to confirm the deletion.

Recent Destinations

- Press Delete Individual Destinations to display a recent destinations list. Select the individual entry to delete.
- Press Delete All Destinations to delete the entire recent destination list. A popup displays asking to confirm the deletion.

My POIs

1. Press My POIs to display a menu of other options.
2. Select Delete Individual Categories. A My POIs category list displays.
3. Select the individual entry to delete.

Press Delete All My POIs to delete the entire list of categories. A popup displays asking to confirm the deletion.

Upload Saved Locations

- Press Upload Saved Locations to upload all downloaded POIs and all entries in the vehicle address book into a USB device. A popup displays to confirm the upload.
- If there is no USB device connected, or it does not have enough space, a popup displays stating there is an Upload Saved Locations error. Screen buttons to either Retry or Cancel become available.

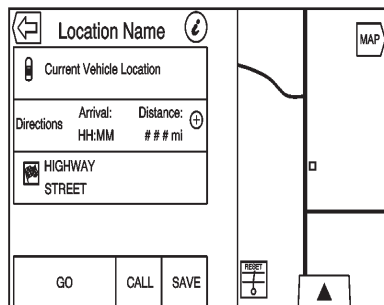
Map Adjustments

Zoom In/Out can be used to adjust the scale of view on the map. When the end of the zoom level is reached, the Zoom In/Out will gray

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out and display a popup showing, “You have reached the minimum/maximum zoom level.”

Map Scales



2697438

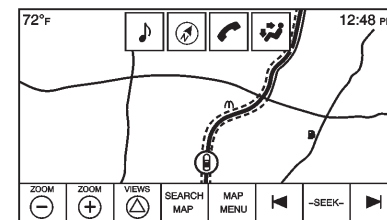
- When entering a destination details view, a route to the destination from the vehicle's current location is done automatically.
- The right side of the view shows the destination centered and at one of three map scales. For a unique location with a particular

address, it is shown at the 244 m (800 ft) scale. Once the route is calculated, the arrival route is shown on the map and the arrival time and distance is also shown,

- If only the street and city are known, it is shown at the ## m (## ft) scale. If only a city is known, it is shown at the ## m (## ft) scale.

The scale can be configured for English or metric units. To change from English to metric, see “Driver Information Center (DIC)” in the Index of the owner manual for more information.

Scroll Features



2697693

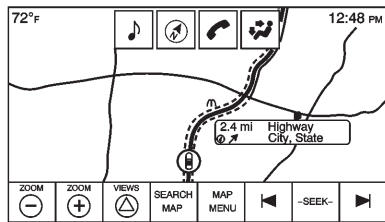
- To scroll within the map, touch anywhere on the map screen.
- Nudge or slide a finger on the map, the map moves in the direction of the finger.
- Fling a finger on the map, the map will start scrolling in a short continuous scroll.
- Press a finger on the location on the map, the map re-centers to the location that was tapped on.

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- Double tap a finger on a location on the map, the map zooms in one level to the location that was double-tapped on.

If a finger is double-tapped near the vehicle icon, the zoom will stay locked to the vehicle position rather than moving and then zooming the map from the location where the finger gesture was performed.

- When the map is re-centered away from being locked to the vehicle position, the crosshairs will show in the center of the map. As the map continues to be re-centered, the crosshairs will remain on the screen. If the map is moved from the current location, the crosshairs will disappear.



2697798

- Press a finger on the callout next to the crosshairs and the destination details view displays. From this view, route guidance can be received or saved to the vehicle's contact list.
- When the map is re-centered, the straight-line distance from the vehicle to the selected point is displayed in the callout. In addition, a heading direction in the form of an arrow is displayed to indicate the direction. The arrow is shown in relation to the current vehicle heading.

- Press a finger on a POI icon shown on the map, the name of the POI is shown in the address callout, along with the city name and state. If the callout is selected, the destination details view for the POI shown.

Maps

Object-ID=2702322 Owner=Vitale, Diane
LMD=02-Sep-2011 LMB=Vitale, Diane

This section includes basic information that you need to know about the map database.

The maps are stored on a Secured Digital (SD) card that is used in the navigation system.

Detailed Areas

Road network attributes are contained in the map database for detailed areas. Attributes include information such as street names, street addresses, and turn restrictions. A detailed area includes all major highways, service roads, and residential roads. The detailed areas include points of interest

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(POIs) such as restaurants, airports, banks, hospitals, police stations, gas stations, tourist attractions, and historical monuments. The map database may not include data for newly constructed areas or map database corrections that are completed after the production of the SD card. The navigation system provides full route guidance in the detailed map areas.

Navigation Symbols

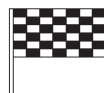
Object-ID=2702326 Owner=Vitale, Diane
LMD=02-Sep-2011 LMB=Vitale, Diane

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



2698072

The vehicle symbol indicates the current position and heading direction of the vehicle on the map.



2533144

The destination symbol marks the final destination after a route has been planned.



2548315

The waypoint symbol marks one or more set waypoints.
A waypoint is a stopover destination point added to the planned route.

The estimated time and distance to the destination are displayed.



2532504

If waypoints have been added to the current route, each waypoint destination displays estimated time and distance.



2532506

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This symbol indicates that the map view is North up: North up displays North at the top of the map screen regardless of the direction the vehicle is traveling. Select this screen symbol to change the view to Heading up or 3D.



2546488

This symbol indicates that the map view is Heading up.

Heading up view displays the direction the vehicle is traveling at the top of the map screen. The shaded triangle indicates North.

Press this screen symbol to change to 3D mode.

The 3D symbol is the same as the Heading up symbol, but the map is in 3D.



2207244

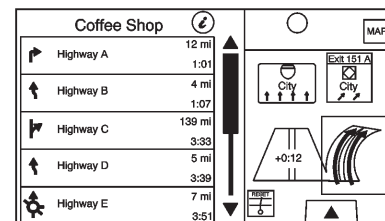
The No GPS symbol appears when there is no Global Positioning System (GPS) satellite signal.



2532496

This symbol located at the bottom of a map screen brings up the map mode pop-up screen.

Autozoom



2704102

As a maneuver is being approached, the map zooms in to give greater detail.

If lane guidance is available for the maneuver, this is also shown.

Autozoom in Map Details for All Modes

The system will perform the autozoom for each maneuver that is indicated by the next turn indicator. The map autozoom is independent from the freeway guidance junction view.

When the system begins to autozoom, it zooms in to its minimum autozoom level of 50 m. After the maneuver is performed, the system slowly zoom back out to its previous before the maneuver. Any traffic or POI icons that are displayed are continued to be shown throughout the autozoom.

Autozoom Details in 3D Mode

When the next maneuver begins to be visible on the map in the horizon, the system begins its autozoom, keeping the maneuver visible at the edge of the horizon until it reaches the minimum autozoom level.

Autozoom Details in 2D Mode

When the next maneuver is within a defined distance of two miles, the system slowly begins its zoom in until it reaches the minimum autozoom level.

Driving on a Route

Maneuver Criticality

The system is able inform the driver if a maneuver is critical and must be executed otherwise it will add a significant amount of time to the drive, taking current traffic conditions into account. This is intended to help the driver to know when it is important to execute the maneuver rather than bypass it.

Normal Maneuver: A normal maneuver has a low priority assigned to it, which is anything that would add less than 10 minutes to the route. This requires no special visual attention.

Medium Criticality Maneuver: A medium criticality maneuver is anything that would add an additional 10-20 minutes to the route. This requires some visual focus on the additional time and the maneuver to be painted in a caution color.

Critical Maneuver: A critical maneuver is anything that would add more than 20 minutes to the route. This may occur if the driver is supposed to exit before a bridge or some other road that has few exits on it. This requires some visual focus on the additional time and the maneuver to be painted in a critical caution color, and an explanation point icon to be displayed along with the maneuver.

Maneuver Criticality Based on Distance

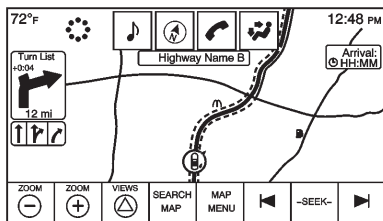
When the navigation routing preference is set for the shortest distance, the criticality is then determined based on added distance to the original route rather than time.

Maneuver Road Name

The name of the road that the maneuver is performing on is shown in the center of the view either below the application tray in the proximity mode, or at the top of the view in the non-proximity mode.

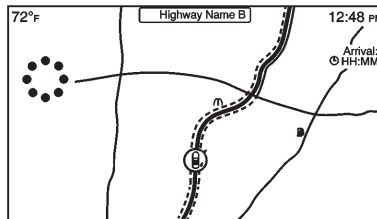
48 Infotainment System

If the route has multiple roads that have merged, the system uses the same determination that is used for the road icon to display the proper road name. If the road name has multiple names, all names are shown, with / as a separator.



Map View with Proximity

2698221



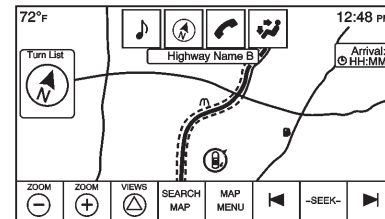
View Without Proximity

2698237

If the road that the system has calculated for the next maneuver has an icon, it will be shown to the left of the maneuver road name. If the route has multiple roads that have merged, creating multiple road icons, the system will usually look at what road the vehicle will be on the longest and displays that icon.

The distance to the maneuver is shown from the current location along the route to the maneuver.

Off-Road Indication



2704590

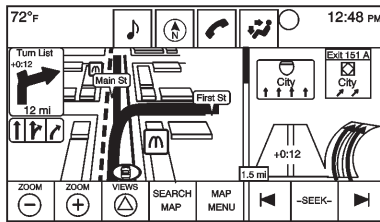
When driving in an area with no road showing on the map, the system transitions to off-road mode. The map displays a compass in the turn arrow area. The system will attempt to guide by showing a highlighted route starting at the nearest road. This road name is shown in the next maneuver name field at the top of the screen. The ETA and heading to destination information is still shown.

Alerts

The navigation system may need to get the attention of the driver in certain situations.

If not in the navigation application when a near maneuver prompt is given, it is shown as an alert. The alert contains the turn indicator and button to display the main navigation view, or dismiss the alert.

The alert also contains the name of the street to turn on, a description of the maneuver, and a countdown bar.



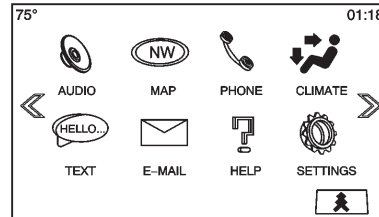
2704101

As the vehicle approaches a maneuver that has detail information, a distance indicator bar begins to deplete. This bar is first shown during the first voice prompt for the maneuver and is depleted upon reaching the maneuver. Below

the bar is a distance readout for how long the vehicle must be driven before the maneuver is reached.

Destination

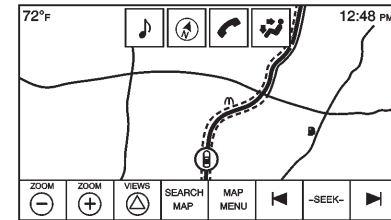
Object-ID=2702329 Owner=Vitale, Diane
LMD=02-Sep-2011 LMB=Vitale, Diane



2698937

If route guidance is not active, press the MAP screen button on the Home Page to access the map view. Several options can be selected to plan a route. Some destination items may be grayed out if no destination was previously entered or saved.

Search Map



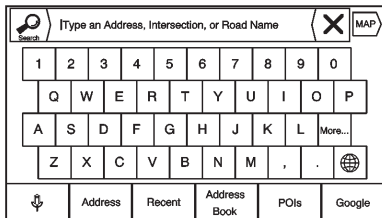
2699118

Tap on the search map button to go to the destination entry views.

Available Methods of Search

- Speech Recognition
- Address Search
- Recent Destinations
- Address Book
- POIs
- Google Search

50 Infotainment System

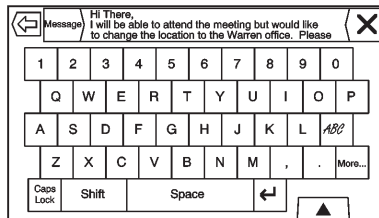


2699120

Tap on the Search Map and the last used destination view is shown. This mode is retained. The initial default is Address.

Alpha-Numeric Keyboard

The keyboard is used in multiple locations throughout the system and can be utilized with any features. The navigation system uses the keyboard's alpha-numeric system which includes 1 through 0, A through Z in QWERTY layout, hyphen, comma, period, Space, and More...which would show additional characters needed.



2700183

To capitalize a character, press the Shift key and then the character that needs capitalization. Press Caps Lock to input all capitalized characters. While using the address keyboard, all buttons are the same as the standard layout except it uses the @ symbol instead of Caps Lock.

The keyboard layout and buttons can be modified depending on the application that it is being used in. A few examples are a .com or @ symbol in the E-Mail application that are not necessary in the Navigation application.

The keyboard can also be modified to include characters appropriate for the region configured in the vehicle settings.

Search: Press to search for the destination details of an address or place of interest entered in the text field. Once the search screen button is pressed, the activity indicator displays in the list of possible matches.


Number of List Items: Press this screen button to display a list of previous searches and/or database.

Delete: Press to delete the last typed character. Press and hold this screen button to clear the entire text field. If the entire text field has been deleted, this screen button becomes an Undo button.

MAP: Press to return to the previous Map view.

More...: Press to show more of the alternate characters and symbols. This screen button is shared with E-Mail, Text, Contacts, and

Calendar. The only difference is that the .com and Enter buttons are removed for Navigation. Press the alternate character displayed as Main...to go back to the standard keyboard.

 : Press to show alternate keyboards which may include character recognition, different language sets, or alternate spellers.

Space: Use to enter a space between characters or the words of a name.

▲: Press the up arrow to display the intersection selector.

Special Characters

As the characters are typed on the keyboard, a popup of the letter pressed displays above the key that was pressed.

Continue to press and hold and any additional special characters associated with that letter are displayed around the current letter. To select one of the special

characters, slide the finger left or right to adjust the highlight of the special character.

Special Character List

The following characters have special characters beneath them:

E - É Ê Ë Ì Í Î Ï	More Characters:
Y - Ÿ	0 - *
U - Û Ü Û Ü	! - ¡
I - Í Î Ï	\$ - ¥ £ ¢
O - Ô Ø Æ Ö Ó Ò Ô Ó	& - §
A - Å Ä Å Æ Æ Å Å	" - « »
S - ß (for lowercase s) Š Š	? - ¿
L - Ł	{ - { }
Z - Ž žžž]-] }
C - Č ččč	.com - .net .org
N - Ń ń	
- ...	

2700085

Address

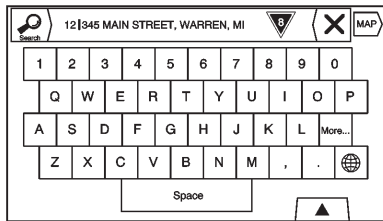
- A particular item of interest can be searched for by typing out the address, intersection, highway, freeway entrance ramps, etc on the keyboard. This information is typed and displayed in the information field. Press on the search icon to start the search.

- Whenever the keyboard view is entered, the last text that was typed, even if it was not searched on, will display.
- A partial or complete address can be typed in the search field. If a partial address is typed, the system attempts to use local knowledge to fill in additional information. The system is also capable of recognizing address formats according to other regions.

Intersection: If looking for an intersection, type in the two street names and city of the intersection to find information about the intersection.

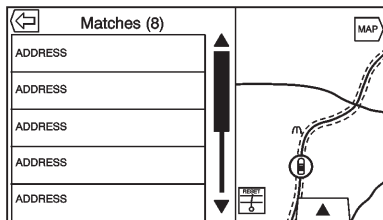
On-Ramp: If looking for the closet on-ramp as a destination, enter a highway and a direction. The system will search for the closest on-ramp going that direction.

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2700016

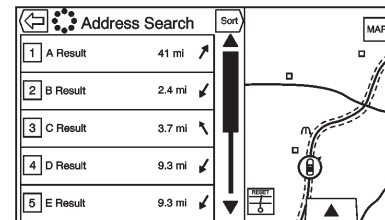
The keyboard can utilize an autocomplete function. Depending on the application, autocomplete could be populated with previous searches and/or a database. Only search terms that produced an actual search result are stored for later recall in the autocomplete.



2700021

1. After a character has been typed, the system is able to start displaying matches that begin with that character. It is continually refined as the user continues to enter in additional characters.
2. If there are multiple matches for what has been entered, the first result alphabetically will be shown, with the letters before numbers.
3. If the autocomplete does not show the results needed, press the delete screen button to clear the field.
4. If there are no matches, a popup displays informing that no results were found.

Multiple Matches



2700292

- If the search results in multiple matches, a list of matches are shown and the results are also shown on the map. The list and map are synchronized with numbered icons.
- Address search results are grouped by result type, in the order of Full Addresses, States, Cities, Intersections, and Streets. If no results are found in a particular group, that group is not shown. If only one type of result is found, the single type result screen is shown. Within each group, they are listed in

confidence order. This means that the highest confidence result will be at the top.

- For address searches, the option of sorting by Confidence, Distance, or by Alphabetical. The default is sorting by Confidence.

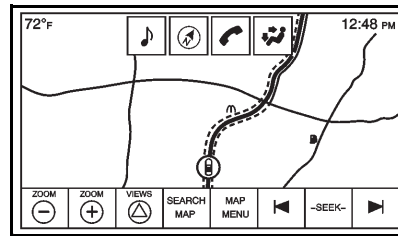
Spelling Mistakes

The system is able to offer alternatives if the searched term is not found exactly. The system uses the closest term it finds and provides those results.

The system first searches the entered term exactly, if no matches are found, partial words are used. An example is, when entering in an address, the system attempts to do a full match on the entire string. If it does not find a match, the house number is then considered an optional term and attempts to find the street and city name. The prefix and suffix of street names are also treated as optional terms. The search is first done by trying to

match the prefix and/or suffix. If there is no match found, these terms are removed from the search to make the search more generic.

Points of Interest (POI)

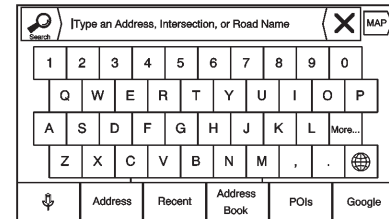


2703317

While at the Home Page, press the Map screen button to display a view of the map. Press SEARCH/MAP to go to the destination entry views.

When the SEARCH/MAP is pressed, the last used destination view is shown. This mode is retained over ignition cycles. The initial default is Address.

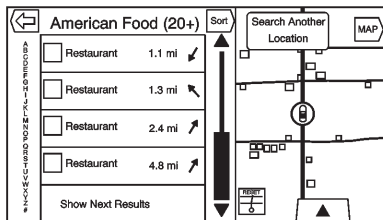
Searching for a POI:



2703350

1. Press the POIs screen button to display a list of POI categories. The list of categories are usually associated with the current location of the vehicle.
2. Press one of the POI categories to display categories that will narrow down the selected category or contain specific names of places.
3. If a selected category has no results in the surrounding area, the search is expanded until one result is found.

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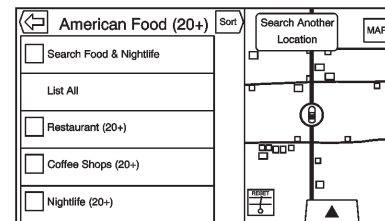
2703366

- If a large category is selected, such as gas stations, the map zooms in to the region near the vehicle's position to show the nearest 20 matches. If the limit is reached and no further matches display, there is a Show Next Results button to expand the search by another 10 results. The currently selected category or search term is shown in the title bar along with the number of matches shown in the list in parenthesis.
- POI chains are grouped into a single line item, this counts as one entry in the 20 match limit for the search. For example, a

chain of restaurants represent an initial search that found 35 individual locations within the search criteria. Press Show Next Results to expand the list of 20 to show another 10, then press again to show the last five.

- Pan or zoom the map using the finger gestures to minimize the POI list and to interact with the map. The icons that were shown before, continue to be displayed and updated. The list is also updated based on where the map was panned or zoomed. The search for POIs is constrained to where the map has been moved to.
- If the search map is tapped to recenter, the crosshairs are shown to indicate the center of the new search location. If a POI icon is tapped on while in the full expanded map, a callout for that location displays. Tap the callout to display the destination details view.

- Press the map reset button to return the map to automatic zooming and searching and is recentered around the vehicle's position, the route, the destination, or another location that was specified for the search. The map RESET button is only displayed if the map was manually adjusted.



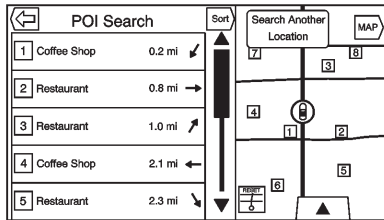
2703752

Instead of scrolling down to the end of a category hierarchy, tap the List All button to display all of the matching results in that particular category with its sub categories.

As part of the POI search, a location can be entered on the keyboard. For example, type “coffee shops” and a city name. A search for all coffee shops within the selected city will list as search results.

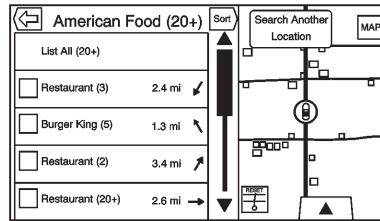
If a particular POI name is not known, a category type such as Parking can be entered on the keyboard. A list of items in that category will display.

A phone number of a POI can be entered on the keyboard as a way to search for a result. If not all of the phone number is known, entering a partial phone number could also find the POI being searched for.



2703802

The POI keyboard search results will display in the order in which they were found. Press the Sort button to change the sorting order between distance and alphabetical.

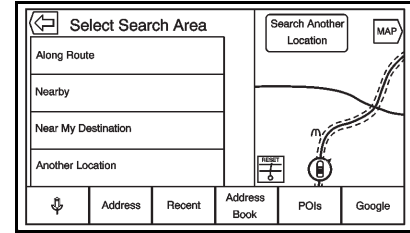


2703815

If browsing for POIs or searching for results on a keyboard in a different location than what was searched previously, tap the Search Another Location button to specify a different location.

If not under route guidance, the search area options are:

- Nearby (default)
- Another Location



2703822

If under route guidance, the search area options are:

- Along Route (default)
- Nearby
- Near My Destination
- Another Location

Favorite POIs

Locations, categories, or a particular POI chain ID can be saved as Favorites in the POIs view.

Press and hold on a favorite location, and then tap on the category to be saved. Whenever a set of POIs are grouped, as in a

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category or a set of POIs that all belong to the same chain ID, the whole category or chain ID is saved in the favorite for recall.

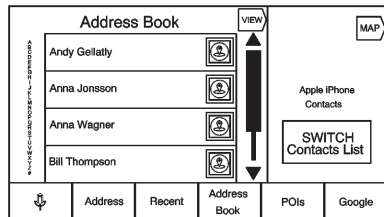
Recalling POI Category or Chain

If a POI category or chain favorite is recalled, the system displays a list of matching results defaulting to nearby, but allows a search of other locations.

Saved Destinations

Select a saved destination from the Address Book or Recent destinations.

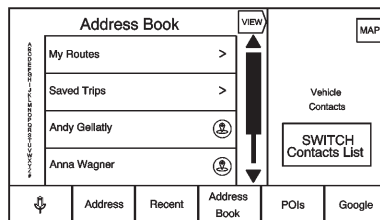
Address Book



2703841

Select the Address Book button to view a contact list. If a particular contact has a single address associated with it, that contact has a Quick Route list item function button next to it. Contacts without this Quick Route Button either have multiple addresses or no address at all. Press the Quick Route Button to go to the Destination Details view.

Tap on an address, either from the Quick Route on the contact list or a specific address from the contact detail list to go to the destination view showing that address on the map.



2703843

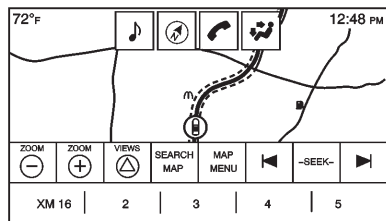
Routes from the Address Book are able to be saved and recalled. The order is based on when the route was last used. When the routes are saved, they are given a default title of the current date and time. If there are not any saved routes, this list item is hidden.

Favorite Destinations

- Destinations can be saved as Favorites for recall later. Depending on the favorite, when an address or POI favorite is recalled, the Destination Details View is shown. For a Category Favorite, the Category browse view is shown. For a Search String favorite, the keyboard search results view is shown.
- When a favorite address is being routed to, it is shown active. Tap on the active favorite, to suspend that route.
- Save locations as Favorites for recall later in the Destination Details View.

- Save waypoint lists as well as My Routes from the Address Book.

Storing Favorites from Map



2704096

Favorite locations can be stored from the Map View.

If under route guidance, the current destination or final destination in a waypoint route can be saved as a favorite by revealing the Favorites panel. Press and hold on a favorite location. It gets autonamed with the name of the location.

Route Guidance



2707431

- Press GO to go to the main navigation view and to start route guidance.
- If the system has an active route, a pop-up will display, "What would you like to do with this destination?" The options are: Add As Waypoint, Set New Destination, or Cancel.
- If the system does not have an active route, the same pop-up is shown, asking if you would like to set the new route as a waypoint or as the new destination. If the new route is added as a waypoint to a current

route, the waypoints and destination in the saved route are added in order at the end of the current route.

- There is a maximum number of waypoints that can be added to the system. When the maximum number has been reached, a pop-up displays indicating that a waypoint must be deleted before a new one can be added. Even though a waypoint has been deleted, it will be added to the recent destinations list for easy recall.

My Route

- The last completed route is temporarily saved in the My Routes list. When a new route or if the vehicle is turned off, that temporary route is cleared. This temporary route is titled "Last Route – time route completed." This route can then be permanently saved for recall later.

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- When a route is selected from the My Routes list, the destination details view for that route is shown. Instead of showing a map of the destination, it shows the entire route. The ETA, turn list, and all other parts of the Destination Details view remain the same.

Save Route

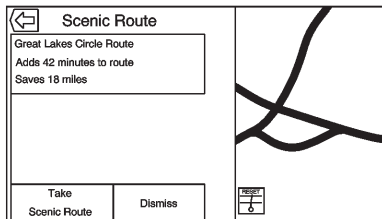
- Press the Save Route button to save the route to the My Routes list. The entry is automatically saved using the date and time for the My Route. This name can be renamed by selecting the Edit list item function button.
- If a maximum number of My Routes is reached, a pop-up displays indicating that a route must be deleted before a new one can be added.

Scenic Route Available

- If a scenic route is available and is close to the route that is being travelled, an alert is shown to allow a choice of whether or not

to follow the scenic route or keep the current route. If a selection is not made, the original route is followed.

- After the original route is calculated, the route is searched for possible scenic route alternatives. This route will be a mixture of the available scenic routes and a planned preferred route.

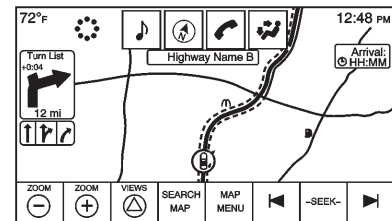


2703909

If View Scenic Route is selected, a view that indicates the name(s) of the scenic routes as well as how much the scenic route adds/saves in terms of time and distance displays. The map shows the

original route as well as the scenic route as a secondary route so the entire route path can be seen. If Take Scenic Route is selected, the scenic route would be taken.

Estimated Time of Arrival (ETA) and Distance



2704549

- When under route guidance, the system shows the Estimated Time of Arrival (ETA) or travel time, and the driving distance.
- The ETA and travel time are calculated using any available traffic information, including using historic traffic information, including using historic traffic

information for locations far away for the ETA of that location.

3. The ETA is also based on the driving speed. If the driver is driving 10 mph below the speed limit on a highway, the system assumes this slower speed for the duration of that highway and adjusts the ETA accordingly.
4. If in a waypoint route, the ETA, travel time, and driving distance are all shown relative to the final destination.
5. The final ETA is shown taking into consideration any time zone crossings that the route has travelled through.
6. Press the ETA information area to toggle between the estimated arrival time, total driving time resulting, and driving distance.

OnStar® Destination Download

Object-ID=2702330 Owner=Vitale, Diane
LMD=02-Sep-2011 LMB=Vitale, Diane

The destination download lets an OnStar® subscriber ask an OnStar Advisor to download a destination to the navigation system. OnStar will send address information and location coordinates of the destination into the navigation system.

Equally Exclusive from Embedded Navigation

If the vehicle has both an embedded navigation system and OnStar, the system only allows one application at a time. If under an OnStar turn-by-turn route, then all internal navigation functions are disabled until the route is completed.

When the navigation application is selected, OnStar turn-by-turn screens display.

Cancelling an Embedded Route

If in an active route while using the embedded system and a turn-by-turn route is initiated, the embedded route is cancelled and can only be resumed manually after completing or cancelling the turn-by-turn route.

Cancelling a Turn-By-Turn Route

If navigation is initiated by using the embedded system, either by speech, from a Favorite, from the steering wheel controls, etc., a pop-up displays to cancel the turn-by-turn route before proceeding.

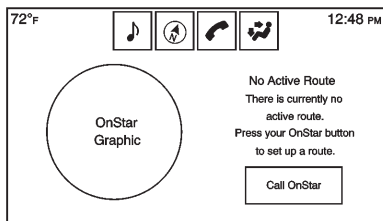
OnStar Cancelling an Embedded Navigation Route

OnStar is able to remotely cancel the embedded navigation system. If the OnStar voice menu is entered, contacts an advisor, or with some other method and decides to cancel a route, all navigation routes in the vehicle (OnStar or embedded) will be cancelled. There will be no

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confirmation, and this update will immediately be reflected on the display. Route guidance can be resumed with the embedded system if the Resume Guidance button is selected in the Map Menu.

No Active Route



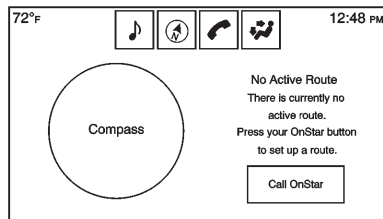
2704165

There is no active route:

- When the navigation application is selected and a screen stating, "No Active Route" displays. Press the Call OnStar button.

- If the system receives the indication that there is an active OnStar subscription, the help text is displayed with instructions on how to set up a route.
- When no OnStar is in the vehicle, the navigation application icon is removed from the home screen and application tray, so this view is not accessible.

Compass



2704167

The compass is shown if simple navigation assistance is needed, without an actual set route.

The compass is a display showing the four cardinal and four ordinal directions of N, E, S, W, and NE, SE, SW, NW. The display is rotated about its center point with the top of the display indicating the current vehicle heading. The display rotates at 45 degree increments with the following angles defining the directions: N = 0 degrees

NE = 45 degrees

E = 90 degrees

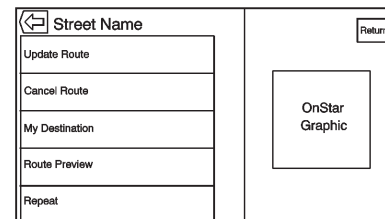
SE = 135 degrees

S = 180 degrees

SW = 225 degrees

W = 270 degrees

NW = 315 degrees



2704176

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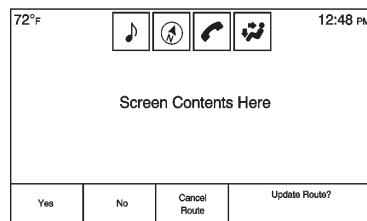
Press the Menu button to go to the turn-by-turn menu. The destination address shows as the title of the turn-by-turn menu.

The turn-by-turn menu consists of the following options:

- Update Route (only shows if the vehicle is off the route)
- Cancel Route.
- My Destination
- Route Preview
- Repeat

When the system is downloading a route, the only option available to the user is Cancel Route. Once the route is downloaded, the additional list items display.

Update Route

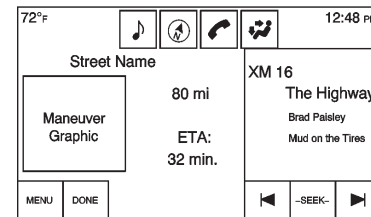


2704180

1. The Update Route option is only shown if there is a planned route. If the list item is selected, routing begins and maneuver instructions display.
2. While in an active route, but the planned route is not being followed, the Update route view is displayed to allow new directions for that destination.
3. If the Yes option is selected, routing begins and maneuver instructions are displayed.
4. If the No option is selected, the previous screen displays.

5. If Cancel Route is selected, a cancel route confirmation screen displays.

My Destination

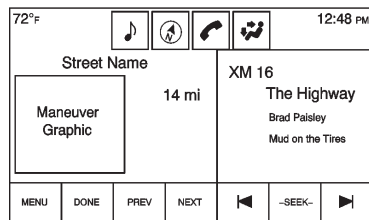


2704406

If My Destination is selected, a special version of the Maneuver View displays. The Destination Address is shown in the Street Name field and the total distance to the destination is shown in the distance to maneuver View. Press the Done button to return to the Maneuver View.

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Route Preview



2704414

1. If the Route Preview is selected, a special version of the Maneuver View displays. This view is similar, but does not show the time to destination information or distance bargraph.
2. Press NEXT to display the next maneuver along with its associated data. Press PREV to display the previous maneuver along with its associated data.
3. While at the current maneuver, the PREV button is hidden. If at the last maneuver, the NEXT button is hidden.

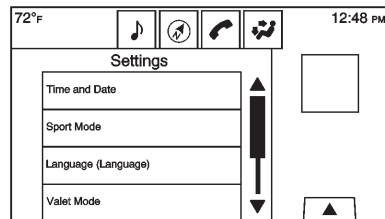
4. Press the Done button to return to the Maneuver View.

Repeat

Select Repeat to go back to the Maneuver View. The audible maneuver prompt is repeated. If the prompts were previously muted, they become unmuted for the prompt to be played and remain unmuted.

Settings

Object-ID=2708026 Owner=Vitale, Diane
LMD=02-Sep-2011 LMB=Vitale, Diane



2704936

Press Settings on the Home Page to adjust features and preferences, such as Time and Date, Sport Mode, Languages, Valet Mode, Radio, etc. Most of the options for Settings are explained in the vehicle owner manual.

1. Press the Settings screen button on the Home Page.
2. Touch-tap the scroll bar until the desired option displays. Select the desired settings to change.

A few of the setting options change the way the navigation system displays or reacts while in use.

Speech

Speech recognition allows for hands free operation within the navigation, audio, phone, and weather applications. See *Speech Recognition on page 66* for more information.

Press the Speech screen button to display the Speech menu.

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Confidence Threshold: Press to Confirm either More or Less confidence toward the system's recognition of speech commands.

Prompt Length: Press to change the prompt length to Short or Long.

Audio Feedback Speed: Press to change the auto feedback speed to Slow, Medium, or Fast.

Display

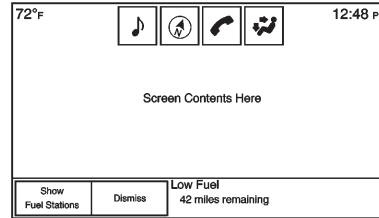
Mode: Press Mode to change the screen background. This setting controls map colors.

- The Auto setting adjusts the screen background automatically depending on the exterior lighting conditions.
- The Day setting brightens the map background.
- The Night setting darkens the map background.

Calibrate Touchscreen: Press to display the Touchscreen Calibration Screen. See the Index of the owner manual for more information.

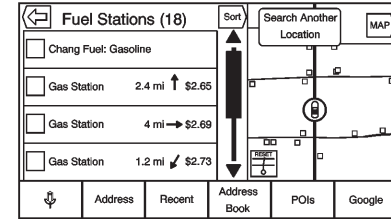
Turn Display Off: Press to turn the Display option off.

Low Fuel Alert



2706156

If the vehicle reaches a low fuel level, the system displays an alert about the low fuel condition. Press the Show Fuel Stations screen button to view nearby gas stations, and start guidance if desired.



2706159

If the remaining driving distance is available from the system, this is included in the alert.

Global Positioning System (GPS)

Object-ID=2702338 Owner=Vitale, Diane
LMD=02-Sep-2011 LMB=Vitale, Diane

The position of the vehicle is determined by using satellite signals, various vehicle signals, and map data.

At times, other interference such as the satellite condition, road configuration, condition of the vehicle, and/or other circumstances

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can affect 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. When the vehicle is not receiving signals from the satellites, a symbol appears on the map screen. See *Navigation Symbols on page 45*.

This system might not be available or interference can occur if any of the following are true:

- Signals are obstructed by tall buildings, trees, large trucks, or a tunnel.
- Satellites are being repaired or improved.

For more information if the GPS is not functioning properly, see *Problems with Route Guidance on page 65* and *If the System Needs Service on page 65*.

Vehicle Positioning

Object-ID=2702346 Owner=Vitale, Diane
LMD=02-Sep-2011 LMB=Vitale, Diane

At times, the position of the vehicle on the map could 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 sand, gravel, or snow.
 - The vehicle is traveling on winding roads or long straight roads.
 - The vehicle is approaching a tall building or a large vehicle.
 - The surface streets run parallel to a freeway.
 - The vehicle has 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 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 the vehicle.
 - Tire chains have been installed.
 - The tires are replaced or worn.
 - The tire pressure for the tires is incorrect.
 - This is the first navigation use after the map data is updated.
 - The 12-volt 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.

Problems with Route Guidance

Object-ID=2702352 Owner=Vitale, Diane
LMD=02-Sep-2011 LMB=Vitale, Diane

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

- The turn was not made on the road indicated.
- Route guidance might not be available when using automatic rerouting for the next right or left turn.
- The route might not be changed when using automatic rerouting.
- There is no route guidance when turning at an intersection.
- Plural names of places might be announced occasionally.
- It could take a long time to operate automatic rerouting during high-speed driving.

- Automatic rerouting might display a route returning to the set waypoint if 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 might not be searched.
- The route to the destination might not be shown if there are new roads, if roads have recently changed, or if certain roads are not listed in the map data. See *Maps on page 44* for more information.

To recalibrate the vehicle's position on the map, park with the vehicle running for two to five minutes, until the vehicle position updates.

If the System Needs Service

Object-ID=2702355 Owner=Vitale, Diane
LMD=02-Sep-2011 LMB=Vitale, Diane

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

Map Data Updates

Object-ID=2702358 Owner=Vitale, Diane
LMD=02-Sep-2011 LMB=Vitale, Diane

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

For 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. If updates are needed, call the GM Nav Disc

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Center or order a new SD card online. To order map data, have the vehicle's Vehicle Identification Number (VIN) available. See "Vehicle Identification Number (VIN)" in the owner manual.

After receiving the updated map data, see *Maps on page 44* for more information.

Database Coverage Explanations

Object-ID=2702359 Owner=Vitale, Diane
LMD=02-Sep-2011 LMB=Vitale, Diane

Coverage areas vary with respect to the level of map detail available for any given area. Some areas feature greater levels of detail than others. If this happens, it does not mean there is a problem with the system. As the map data is updated, more detail can become available for areas which previously had limited detail. See *Map Data Updates on page 65* for more information.

Voice Recognition



Speech Recognition

Object-ID=2711621 Owner=Vitale, Diane
LMD=12-Sep-2011 LMB=Vitale, Diane

Speech recognition allows for hands free operation within the navigation, audio, phone, and weather applications.

Speech 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 the vehicle's owner manual for more information.

Using Speech Recognition

1. Press  /  on the steering wheel control button to activate speech recognition, or press the speech recognition icon on the center stack display.

2. The audio system mutes and a beep is heard. If there is no beep, make sure that the voice volume setting is not turned down.
3. Clearly speak one of the commands listed later in this section.

There are two speech prompt modes supported:

- Long verbal prompts — The longer prompts provide more information regarding the supported actions for that speech recognition session.
- Short prompts — The short prompts provide simple setup and action commands.

If a command is not heard during a short period of time, the speech recognition process times out.



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Prompts and Screen Displays

The system prompts and display screens will adjust to reflect the commands during the speech recognition session.

While speech is active, there may be corresponding buttons and screen displays available to interact with the system so that some of the functions can be manually done. Pressing on any of the buttons or displays to finish a function that was initiated through speech recognition will terminate the session. If the manual functions are only partially completed, the speech recognition will proceed until finished.

Cancelling Speech Recognition

1. Press   on the steering wheel control button to cancel speech recognition, or press the speech recognition icon on the center stack display.

2. Pressing any other radio or steering wheel control, other than the volume knob or the volume steering wheel control button cancels the session.

Helpful Hints for Speaking Commands

The speech recognition application can usually understand commands that are either naturally stated in sentence form, or by a direct command stating the application and the task.

There is no need to memorize specific command words. An example of a naturally stated command would be, "I'd like to place a call to 555-1212, please."

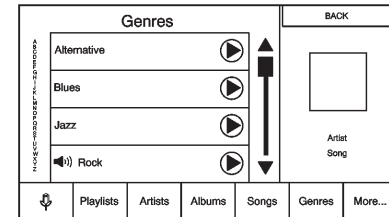
A simple direct command can also be used by stating the application and the task to be completed. An example of a direct command would be, "Phone Call". The system may answer with a prompt of, "OK, tell me about the phone call." The direct command for the task would be, "Connect me with 555-1212."

If the phone number has been saved as a name or place, the direct command for the task would be, "Get me David at the office."

Directed Dialog

A directed dialog is an interaction between a person speaking the command and the system prompting for specific information necessary to complete the task. Many times the system may repeat what the person has stated as a command. This is done as a confirmation to make sure the command is understood.

Speech Recognition for the Radio



2708063

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All audio screens have a speech recognition button to launch an audio speech recognition session. If browsing the radio when the speech button is pressed, the speech recognition screens for Radio display.

The following list shows Radio features that are controllable by natural language speech recognition commands. A natural language command would have to include all necessary instructions for the system to carry out each command:

Help: Speech control help for Radio functionality.

Select band FM: Most recently tuned FM station.

Select band AM: Most recently tuned AM station.

Select band XM: Most recently tuned XM channel.

Tune FM: Listen to a FM radio frequency.

Tune AM: Listen to a AM radio frequency.

Tune FM HD: Listen to a HD FM radio frequency.

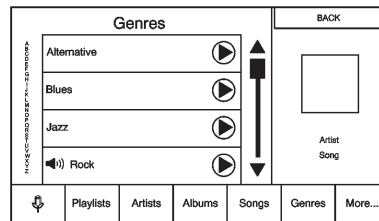
Tune AM HD: Listen to a HD AM radio frequency.

Tune XM Number: Listen to a XM channel (by number).

Tune XM Name: Listen to a XM channel (by name).

Tune XM Category: Listen to XM category.

Speech Recognition for My Media



2708063

All audio screens have a speech recognition button to launch an audio speech recognition session.

If browsing My Media when the speech button is pressed, the speech recognition screens for My Media display.

The following list shows My Media features that are controllable by natural language speech recognition commands. A natural language command would have to include all necessary instructions for the system to carry out each command:

Help: Speech control help for My Media functionality.

Play Device: Specific device Disc, AUX, Bluetooth USB.

Play Genre: Play music from a specific Genre.

Play Artist: Play music by a specific Artist.

Play Album: Play music from the specific Album.

Play Song: Play track including CD and DVD.

Play Playlist: Play music in a pre-defined playlist.

Play Next Track: Play next track.

Play Previous Track: Play previous track.

Play Audio Book: Audio book by Author, Title, Chapter.

Play Podcast: Listen to Podcast.

Play Video: Play video by video name.

General Navigation Commands

Feedback on, feedback off:

Instructs the system to turn on and off the voice recognition feedback. When feedback is ON, the system responds to commands with a talk back phrase. When feedback is OFF, the system responds to commands with a chime.

Navigation voice [guidance] on, navigation voice [guidance] off: Instructs the system to turn on and off voice guidance prompts during route guidance.

Cancel: Instructs the system to cancel the command.

Speech Recognition for Navigation

If the speech button is pressed in the SEARCH MAP screens, the system begins a speech recognition session.

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

Radio select (frequency) AM, radio select (frequency) FM:

Instructs the system to go to a specific frequency on either the AM or FM band. For example, radio select ninety seven point one FM or radio select ten forty AM.

Radio select (channel) XM (if equipped): Instructs the system to go to a specific channel on the XM™ band (if equipped). For example, radio select one fifty one XM.

Radio [help]: Instructs the system to play back some helpful advice about radio commands, and some common radio commands which are available to the user.

Point of Interest (POI) Commands

The following is a list of POI commands. POIs only display on the map screen if the map scale is 800♦m (0.50♦mi) or less. If POIs display on a map with the wrong scale, the system reminds that this cannot be done. The available POI commands are:

Navigation show/hide gas

station[s], navigation show/hide gas: Instructs the system to display and hide gas station POIs on the map screen.

Navigation show/hide

restaurant[s], navigation show/hide dining: Instructs the system to display and hide restaurant POIs on the map screen.

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Navigation show/hide ATM[s]:

Instructs the system to display and hide ATM POIs on the map screen.

Navigation show/hide hotel[s]:

Instructs the system to display and hide hotel POIs on the map screen.

Navigation show/hide airport[s]:

Instructs the system to display and hide airport POIs on the map screen.

Navigation show/hide shop[s], navigation show/hide shopping:

Instructs the system to display and hide shopping POIs on the map screen.

Destination and Guidance Commands

Navigation [go to] preset

destination [number] (one, two, three, four, five, or six): Instructs the system to set one of the preset destinations one through six as the new destination.

Navigation delete: Instructs the system to delete the destination, route, or next waypoint. The system

requests a confirmation of which item should be deleted (destination, route, or next waypoint).


Destination (available for English language only):

Instructs the system that the user wants to enter a destination using voice recognition. After this command is stated, the system displays a state abbreviation (such NY for New York). If the destination to be entered is located in the displayed state, then say the desired city name. Otherwise, say "Change State" and say the state name the search should take place in. Then, say the desired city name when prompted, and say the desired street name and house number when prompted.

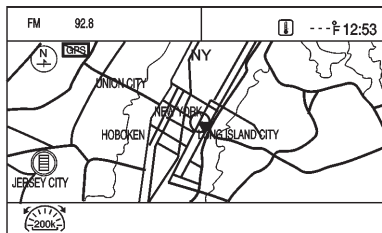
For example, if Cedar Point Amusement is the set destination, which has the following address:

Cedar Point Amusement Park
1 Cedar Point Drive
Sandusky, OH 44870

Set the Destination by using Voice Recognition:

1. Press and hold the  steering wheel control button. The audio system mutes, and a beep is heard.
2. Say the command "Destination". The system replies with "Please say city name or change state", and the system shows a pop-up list of an abbreviated state name, such as NY for New York. If the state is correct, then go to Step 4. Otherwise, say "Change State".

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2593010

For example, if the desired destination is in Ohio, but the system shows New York (NY) in the pop-up list, say “Change State”.

- After saying, “Change State”, the system replies with “Please say state name”. Say the correct state.

Candidate List

- | | |
|------|---|
| 1 OH | |
| 2 ON | 1 |
| 3 CO | |
| 4 OR | |

2200797

The state name displays. In some cases the radio shows a candidate list with the closest matches to the spoken state name. The system asks the user to select an item from the candidate list either by pressing the desired choice, or by saying the list number of the desired choice.

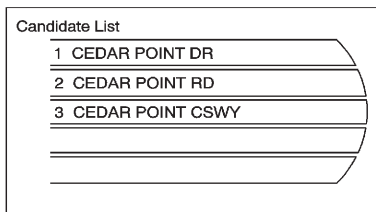
Candidate List

- | | |
|------------------|--|
| 1 SANDUSKY | |
| 2 UPPER SANDUSKY | |
| | |
| | |

2200798

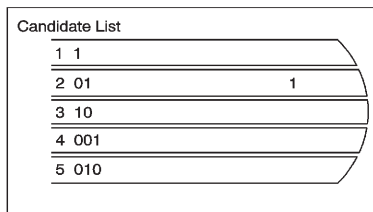
- The system asks the user to say the city name. As shown earlier, the radio can display a candidate list with the closest matches to the spoken city name. Say the correct city name.

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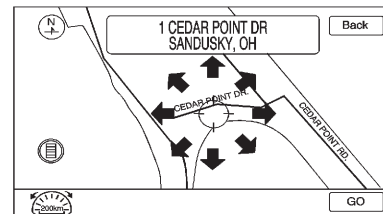
2200800

5. Reply with the street name including the suffix (Blvd, Ave, Rd, etc.), when prompted. The radio might display a candidate list with the closest matches to the spoken street name. Say the correct street name.



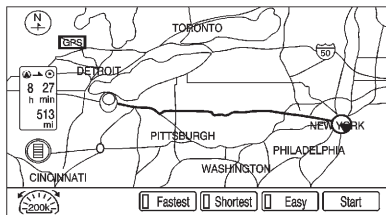
2200801

6. Reply with the house number with prompted. The radio might display a candidate list with the closest matches to the spoken house number. Say the house number as single digit.



2200803

7. Confirm the correct address is displayed, then reply with yes or no, when prompted.



2200804

8. This address is now set as the destination. Select the Start Guidance screen button to begin destination guidance.

Voice Tag Commands

Voice Tags are recorded phrases that can be stored in the navigation system. These voice tags are associated with Address Book Entries, and once these voice tags are stored, they can be used as part of a voice recognition command that sets the particular address book entry as a destination. See the

Address Book and Voice tag sections earlier in this manual for information about instructions on how to store a voice tag in the system.

Navigation [go to] (voice tag):

This command allows selection of a destination saved under the stored voice tag. The system plays back the voice tag and asks to confirm by saying yes or no.

If a destination is set to "Home", say "Navigation go to Home". After the system plays back the voice tag and it is confirmed, the system sets "Home" as the destination.

OnStar (if equipped) Command

Hands Free: This command instructs the system to connect to OnStar. Enter the OnStar voice recognition system. See OnStar in the index of the vehicle owner manual for more information.

Help Commands

- Help

- Radio [help]
- CD help, DVD help, Disc help
- Display [help]
- Navigation [help]

Display Commands

- Display [set/select] day [mode]
- Display [set/select] night [mode]
- Display [set/select] auto [mode]

Radio Commands

- [radio/radio band] AM
- [radio/radio band] FM
- [radio/radio band] XM
- Radio select <frequency> AM
- Radio select <frequency> FM
- Radio select <frequency> XM

CD/DVD/Disc Commands

- Radio [CD/DVD/Disc]
- Radio [CD/DVD/Disc] select <track number>

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General Navigation Commands

- Feedback On
- Feedback Off
- Navigation voice [guidance] on
- Navigation voice [guidance] off
- [cancel/goodbye/quit]

Point of Interest (POI) Commands

- Navigation show/hide [GAS/gas station/gas stations]
- Navigation show/hide [DINING/restaurant/restaurants]
- Navigation show/hide [ATM/ATMs]
- Navigation show/hide [hotel/hotels]
- Navigation show/hide [airport/airports]
- Navigation show/hide [shop/shops]

Destination and Guidance Commands

- Navigation [go to] preset destination [number] one
Repeat for numbers two through six.
- Navigation delete [destination/route/next waypoint]
- Route (used in conjunction with another command)
- Next waypoint (used in conjunction with another command)
- Add to waypoint (used in conjunction with another command)
- Replace destination (used in conjunction with another command)
- Yes (used in conjunction with another command)
- No (used in conjunction with another command)

- Destination (used for Destination VR entry, available in English language only)

Voice Tag Commands

- Navigation [go to] <Voice Tag>

OnStar Command (If Equipped)

- Hands Free

Phone

Bluetooth (Overview)

Object-ID=2711691 Owner=McKee, Todd
LMD=12-Sep-2011 LMB=McKee, Todd

For vehicles equipped with the MyLink or IntelliLink infotainment system, see the separate MyLink/IntelliLink Features and Functions Guide for more information.

For vehicles equipped with Bluetooth capability, the system can interact with many cell phones, allowing:

- Placement and receipt of calls in a hands-free mode.
- Sharing of the cell phone's address book or contact list with the vehicle.

To minimize driver distraction, before driving, and with the vehicle parked:

- Become familiar with the features of the cell phone. Organize the phone book and contact lists clearly and delete

duplicate or rarely used entries. If possible, program speed dial or other shortcuts.

- Review the controls and operation of the infotainment system.
- Pair cell phone(s) to the vehicle. The system may not work with all cell phones. See "Pairing" in this section for more information.
- If the cell phone has voice dialing capability, learn to use that feature to access the address book or contact list. See "Voice Pass-Thru" in this section for more information.
- See "Storing and Deleting Phone Numbers" in this section for more information.



WARNING

OBJECT-ID=2520276 LMD=17-AUG-2010

When using a cell phone, it can be distracting to look too long or too often at the screen of the phone or the infotainment (navigation) system. Taking your eyes off the road too long or too often could cause a crash resulting in injury or death. Focus your attention on driving.

Vehicles with a Bluetooth system can use a Bluetooth-capable cell phone with a Hands-Free Profile to make and receive phone calls. The infotainment system and voice recognition are used to control the system. The system can be used while in ON/RUN or ACC/ACCESSORY. The range of the Bluetooth system can be up to 9.1 m (30 ft). Not all phones support all functions and not all phones work with the Bluetooth system. See


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www.gm.com/bluetooth for more information about compatible phones.


Bluetooth Controls

Use the buttons located on the infotainment system and the steering wheel to operate the Bluetooth system.

Steering Wheel Controls

 **(Push To Talk):** Press to answer incoming calls, confirm system information, and start voice recognition.

 **(Mute):** Press mute the infotainment system.

 **(End Call):** Press to end a call, reject a call, or cancel an operation.

Infotainment System Controls

For information about how to navigate the menu system using the infotainment controls, see *Overview on page 3*.

PHONE: Press to enter the Phone main menu.

Voice Recognition

The voice recognition system uses commands to control the system and dial phone numbers.

Noise: The system may not recognize voice commands if there is too much background noise.

When to Speak: A tone sounds to indicate that the system is ready for a voice command. Wait for the tone and then speak.

How to Speak: Speak clearly in a calm and natural voice.

Audio System

When using the Bluetooth system, sound comes through the vehicle's front audio system speakers and overrides the audio system. Use the volume bar during a call to change the volume level. The adjusted volume level remains in memory for later calls. The system maintains a minimum volume level.

Other Information

The Bluetooth® word mark and logos are owned by the Bluetooth® SIG, Inc. and any use of such marks by General Motors is under license. Other trademarks and trade names are those of their respective owners.

See "Radio Frequency" in the vehicle manual for information regarding Part 15 of the Federal Communications Commission (FCC) rules and Industry Canada Standards RSS-GEN/210/220/310.

Bluetooth (Infotainment Controls)

Object-ID=2711693 Owner=McKee, Todd
LMD=12-Sep-2011 LMB=McKee, Todd

For information about how to navigate the menu system using the infotainment controls, see *Overview on page 3*.

Pairing

A Bluetooth-enabled cell phone must be paired to the Bluetooth system and then connected to the

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vehicle before it can be used. See your cell phone manufacturer's user guide for Bluetooth functions before pairing the cell phone. If a Bluetooth phone is not connected, calls will be made using OnStar Hands-Free Calling, if available. See "OnStar" in the vehicle owner manual for more information.

Pairing Information

- A Bluetooth phone with MP3 capability cannot be paired to the vehicle as a phone and an MP3 player at the same time.
 - Up to five cell phones can be paired to the Bluetooth system.
 - The pairing process is disabled when the vehicle is moving.
 - Pairing only needs to be completed once, unless the pairing information on the cell phone changes or the cell phone is deleted from the system.
 - Only one paired cell phone can be connected to the Bluetooth system at a time.
- If multiple paired cell phones are within range of the system, the system connects to the first available paired cell phone in the order that they were first paired to the system. To link to a different paired phone, see "Linking to a Different Phone" later in this section.

Pairing a Phone

1. Press the PHONE screen button.
2. Select Bluetooth Settings.
3. Select Pair Device (Phone). A four-digit Personal Identification Number (PIN) appears on the display. The PIN is used in Step 6.
4. Start the pairing process on the cell phone to be paired to the vehicle. See the cell phone manufacturer's user guide for information on this process.
5. Locate the device named "Your Vehicle" in the list on the cell phone. Follow the instructions

on the cell phone to enter the PIN provided in Step 4. After the PIN is successfully entered, the system prompts you to provide a name for the paired cell phone. This name will be used to indicate which phones are paired and connected to the vehicle. The system responds with "<Phone name> has been successfully paired" after the pairing process is complete.

6. Repeat Steps 1 through 6 to pair additional phones.

Listing All Paired and Connected Phones

1. Press the PHONE screen button.
2. Select Bluetooth Settings.
3. Select Device List.

Deleting a Paired Phone

1. Press the PHONE screen button.
2. Select Bluetooth Settings.

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3. Select Device List.
4. Select the phone to delete and follow the on screen prompts.

Linking to a Different Phone

To link to a different phone, the new phone must be in the vehicle and available to be connected to the Bluetooth system before the process is started.

1. Press the PHONE screen button.
2. Select Bluetooth Settings.
3. Select Device List.
4. Select the new phone to link to and follow the on screen prompts.

If delete is selected, the highlighted phone will be deleted.

Making a Call Using Phone Book

For cell phones that support the phone book feature, the Bluetooth system can use the contacts stored

on your cell phone to make calls. See your cell phone's owner's guide or contact your wireless provider to find out if this feature is supported by your phone.

When a cell phone supports the phone book feature, the Phone Book and Call Lists menus are automatically available.

The Phone Book menu allows you to access the phone book stored in the cell phone to make a call.

The Call Lists menu allows you to access the phone numbers from the Incoming Calls, Outgoing Calls, and Missed Calls menus on your cell phone to make a call.

To make a call using the Phone Book menu:

1. Press the PHONE screen button.
2. Select Bluetooth Settings.
3. Select Phone Book.

4. Search through the list by selecting the letter group the phone book entry begins with.
5. Select the name or number you want to call.

To make a call using the Call Lists menu:

1. Press the PHONE screen button.
2. Select Call Lists.
3. Select the Incoming Calls, Outgoing Calls, or Missed Calls list.
4. Select the name or number you want to call.

Making a Call

To make a call:

1. Press the PHONE screen button.
2. Enter the phone number.
3. Select Call to start dialing the number.


Accepting or Declining a Call

When an incoming call is received, the infotainment system mutes and a ring tone is heard in the vehicle.

Accepting a Call

Press  to accept the call.

Declining a Call

Press  or do nothing to decline the call.


Call Waiting

Call waiting must be supported on the Bluetooth phone and enabled by the wireless service carrier to work.

Accepting a Call


Press  to accept the call.

Declining a Call

Press  or do nothing to decline the call.

Switching Between Calls (Call Waiting Calls Only)


To switch between calls:

1. Press  to accept the call.
2. Select Switch Call from the menu.

Conference Calling


Conference calling and three-way calling must be supported on the Bluetooth phone and enabled by the wireless service carrier to work.

To start a conference while in a current call:


1. Press .
2. Select Enter Number.
3. Enter the phone number and then select OK.
4. After the call has been placed choose Merge Calls.

5. To add more callers to the conference call, repeat Steps 1 through 4. The number of callers that can be added is limited by your wireless service carrier.

Ending a Call

Press  and select Hang Up.

Muting a Call

Press  to mute a call. Press again to unmute.

Dual Tone Multi-Frequency (DTMF) Tones

The in-vehicle Bluetooth system can send numbers during a call. This is used when calling a menu-driven phone system.

1. Press the PHONE screen button.
2. Select Enter Number and enter the phone number.


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Bluetooth (Voice Recognition)

Object-ID=2711694 Owner=McKee, Todd
LMD=12-Sep-2011 LMB=McKee, Todd

Using Voice Recognition

For vehicles equipped with the MyLink or IntelliLink infotainment system, see the separate MyLink/IntelliLink Features and Functions Guide for more information.

To use voice recognition, press  located on the steering wheel. Use the commands below for the various voice features. For additional information, say "Help" while you are in a voice recognition menu.

Pairing

A Bluetooth-enabled cell phone must be paired to the Bluetooth system and then connected to the vehicle before it can be used. See your cell phone manufacturer's user guide for Bluetooth functions before pairing the cell phone. If a Bluetooth phone is not connected, calls will be


made using OnStar Hands-Free Calling, if available. See "OnStar" in the vehicle manual.

Pairing Information

- A Bluetooth phone with MP3 capability cannot be paired to the vehicle as a phone and an MP3 player at the same time.
- Up to five cell phones can be paired to the Bluetooth system.
- The pairing process is disabled when the vehicle is moving.
- Pairing only needs to be completed once, unless the pairing information on the cell phone changes or the cell phone is deleted from the system.
- Only one paired cell phone can be connected to the Bluetooth system at a time.
- If multiple paired cell phones are within range of the system, the system connects to the first available paired cell phone in the order that they were first paired

to the system. To link to a different paired phone, see "Connecting to a Different Phone" later in this section.

Pairing a Phone

1. Press . The system responds "Ready," followed by a tone.
2. Say "Bluetooth."
3. Say "Pair." The system responds with instructions and a four-digit Personal Identification Number (PIN). The PIN is used in Step 5.
4. Start the pairing process on the cell phone that you want to pair. For help with this process, see your cell phone manufacturer's user guide.
5. Locate the device named "Your Vehicle" in the list on the cell phone. Follow the instructions on the cell phone to enter the PIN provided in Step 3. After the PIN is successfully entered, the system prompts you to provide a name for the paired cell phone. This name will be used to

indicate which phones are paired and connected to the vehicle. The system responds with "<Phone name> has been successfully paired" after the pairing process is complete.

- Repeat Steps 1 through 5 to pair additional phones.

Listing All Paired and Connected Phones

The system can list all cell phones paired to it. If a paired cell phone is also connected to the vehicle, the system responds with "is connected" after that phone name.

- Press $\mu\checkmark$. The system responds "Ready," followed by a tone.
- Say "Bluetooth."
- Say "List."

Deleting a Paired Phone

If the phone name you want to delete is unknown, see "Listing All Paired and Connected Phones."

- Press $\mu\checkmark$. The system responds "Ready," followed by a tone.
- Say "Bluetooth."
- Say "Delete." The system asks for which phone to delete.
- Say the name of the phone you want to delete.

Connecting to a Different Phone

To connect to a different cell phone, the Bluetooth system looks for the next available cell phone in the order in which all the available cell phones were paired. Depending on which cell phone you want to connect to, you may have to use this command several times.

- Press $\mu\checkmark$. The system responds "Ready," followed by a tone.
- Say "Bluetooth."
- Say "Change phone."
 - If another cell phone is found, the response will be "<Phone name> is now connected."

- If another cell phone is not found, the original phone remains connected.

Storing and Deleting Phone Numbers

The system can store up to 30 phone numbers as name tags in the Hands-Free Directory that is shared between the Bluetooth and OnStar systems.

The following commands are used to delete and store phone numbers.

Store: This command will store a phone number, or a group of numbers as a name tag.

Digit Store: This command allows a phone number to be stored as a name tag by entering the digits one at a time.

Delete: This command is used to delete individual name tags.

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Delete All Name Tags: This command deletes all stored name tags in the Hands-Free Calling Directory and the Destinations Directory.

Using the “Store” Command

1. Press $\mathbb{1}$. The system responds “Ready,” followed by a tone.
2. Say “Store.”
3. Say the phone number or group of numbers you want to store all at once with no pauses, then follow the directions given by the system to save a name tag for this number.

Using the “Digit Store” Command

If an unwanted number is recognized by the system, say “Clear” at any time to clear the last number.

To hear all of the numbers recognized by the system, say “Verify” at any time.

1. Press $\mathbb{1}$. The system responds “Ready,” followed by a tone.
2. Say “Digit Store.”
3. Say each digit, one at a time, that you want to store. After each digit is entered, the system repeats back the digit it heard followed by a tone. After the last digit has been entered, say “Store,” and then follow the directions given by the system to save a name tag for this number.

Using the “Delete” Command

1. Press $\mathbb{1}$. The system responds “Ready,” followed by a tone.
2. Say “Delete.”
3. Say the name tag you want to delete.

Using the “Delete All Name Tags” Command

This command deletes all stored name tags in the Hands Free Calling Directory and the Destinations Directory.

To delete all name tags:

1. Press $\mathbb{1}$. The system responds “Ready,” followed by a tone.
2. Say “Delete all name tags.”

Listing Stored Numbers

The list command will list all the stored numbers and name tags.

Using the “List” Command

1. Press $\mathbb{1}$. The system responds “Ready,” followed by a tone.
2. Say “Directory.”
3. Say “Hands Free Calling.”
4. Say “List.”

Making a Call

Calls can be made using the following commands.

Dial or Call: The dial or call command can be used interchangeably to dial a phone number or a stored name tag.

Digit Dial: This command allows a phone number to be dialed by entering the digits one at a time.

Re-dial: This command is used to dial the last number used on the cell phone.

Using the “Dial” or “Call” Command

1. Press . The system responds “Ready,” followed by a tone.
2. Say “Dial” or “Call.”
3. Say the entire number without pausing or say the name tag.

Once connected, the person called will be heard through the audio speakers.

Using the “Digit Dial” Command

The digit dial command allows a phone number to be dialed by entering the digits one at a time. After each digit is entered, the system repeats back the digit it heard followed by a tone.

If an unwanted number is recognized by the system, say “Clear” at any time to clear the last number.

To hear all of the numbers recognized by the system, say “Verify” at any time.

1. Press . The system responds “Ready,” followed by a tone.
2. Say “Digit Dial.”
3. Say each digit, one at a time, that you want to dial. After each digit is entered, the system repeats back the digit it heard followed by a tone. After the last digit has been entered, say “Dial.”

Once connected, the person called will be heard through the audio speakers.

Using the “Re-dial” Command

1. Press . The system responds “Ready,” followed by a tone.

2. After the tone, say “Re-dial.” The system dials the last number called from the connected cell phone.

Once connected, the person called will be heard through the audio speakers.

Receiving a Call

When an incoming call is received, the audio system mutes and a ring tone is heard in the vehicle.


- Press to answer the call.
- Press to ignore a call.

Call Waiting

Call waiting must be supported on the cell phone and enabled by the wireless service carrier.



- Press to answer an incoming call when another call is active. The original call is placed on hold.
- Press again to return to the original call.

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- To ignore the incoming call, no action is required.
- Press  to disconnect the current call and switch to the call on hold.

Three-Way Calling

Three-way calling must be supported on the cell phone and enabled by the wireless service carrier.


1. While on a call, press .
2. Say "Three-way call."
3. Use the dial or call command to dial the number of the third party to be called.
4. Once the call is connected, press  to link all callers together.


Ending a Call

Press  to end a call.

Muting a Call

During a call, all sounds from inside the vehicle can be muted so that the person on the other end of the call cannot hear them.

To mute a call, press , and then say "Mute Call."

To cancel mute, press , and then say "Un-mute Call."


Transferring a Call

Audio can be transferred between the Bluetooth system and the cell phone.


The cell phone must be paired and connected with the Bluetooth system before a call can be transferred. The connection process can take up to two minutes after the ignition is turned to ON/RUN.

To Transfer Audio from the Bluetooth System to a Cell Phone

During a call with the audio in the vehicle:

1. Press .
2. Say "Transfer Call."


To Transfer Audio to the Bluetooth System from a Cell Phone

During a call with the audio on the cell phone, press . The audio transfers to the vehicle. If the audio does not transfer to the vehicle, use the audio transfer feature on the cell phone. See your cell phone manufacturer's user guide for more information.

Voice Pass-Thru

Voice pass-thru allows access to the voice recognition commands on the cell phone. See your cell phone manufacturer's user guide to see if the cell phone supports this feature.

To access contacts stored in the cell phone:

1. Press . The system responds "Ready," followed by a tone.
2. Say "Bluetooth."


3. Say "Voice." The system responds "OK, accessing <phone name>."

The cell phone's normal prompt messages will go through their cycle according to the phone's operating instructions.

Dual Tone Multi-Frequency (DTMF) Tones

The Bluetooth system can send numbers and the numbers stored as name tags during a call. You can use this feature when calling a menu-driven phone system. Account numbers can also be stored for use.

Sending a Number or Name Tag During a Call

1. Press . The system responds "Ready," followed by a tone.
2. Say "Dial."
3. Say the number or name tag to send.

Clearing the System

Unless information is deleted out of the in-vehicle Bluetooth system, it will be retained indefinitely. This includes all saved name tags in the phone book and phone pairing information. For information on how to delete this information, see the previous sections on "Deleting a Paired Phone" and "Deleting Name Tags."

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