

Model: INFO3 CSM MY19 MID

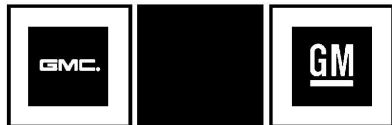
INFO3 CSM MY19 HIGH

Contents

Introduction	2
Radio	10
Audio Players	14
OnStar System	19
Navigation	21
Voice Recognition	37
Phone	44
Settings	51
Trademarks and License Agreements	62
Index	72

2 Introduction

Introduction



The names, logos, emblems, slogans, and vehicle body designs appearing in this manual including, but not limited to, GM, the GM logo, GMC, the GMC Emblem, TERRAIN, and TERRAIN DENALI are registered trademarks of General Motors LLC, its subsidiaries, affiliates, or licensors.

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

This manual describes features that may or may not be on the vehicle because of optional equipment that was not purchased on the vehicle, model variants, country specifications, features/applications that may not be available in your region, or changes subsequent to the printing of this manual.

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

Overview

Read the following pages to become familiar with the infotainment system features.

Warning

Taking your eyes off the road for too long or too often while using any infotainment feature can

(Continued)

Warning (Continued)

cause a crash. You or others could be injured or killed. Do not give extended attention to infotainment tasks while driving. Limit your glances at the vehicle displays and focus your attention on driving. Use voice commands whenever possible.

The infotainment system has built-in features intended to help avoid distraction by disabling some functions when driving. These functions may gray out when they are unavailable. Many infotainment features are also available through the instrument cluster and steering wheel controls.

Before driving:

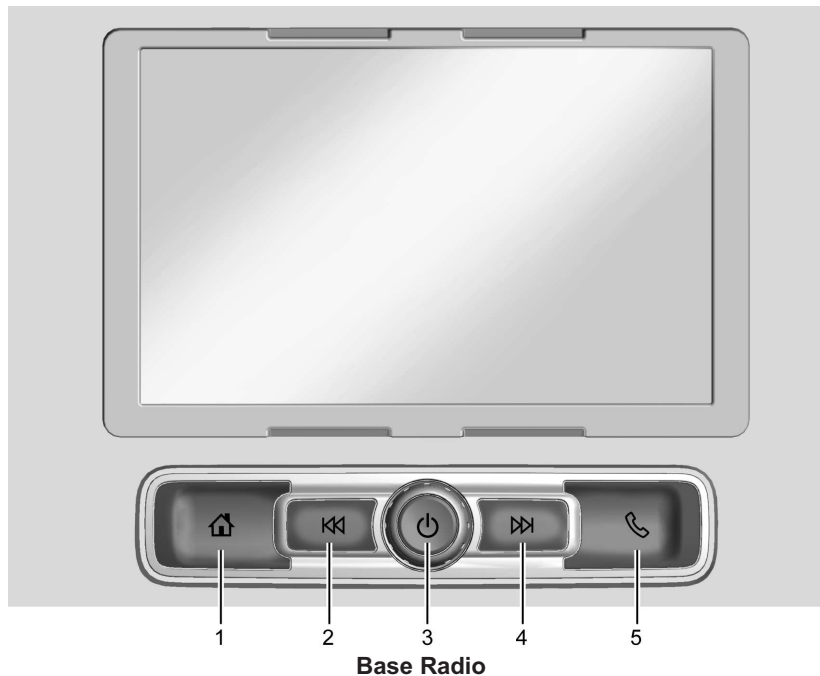
- Become familiar with the system operation, controls on the center stack, and infotainment display.

- Set up the audio by presetting favorite stations, setting the tone, and adjusting the speakers.
- Set up cell phone and mobile device numbers in advance so they can be called easily by pressing a single control or by using a single voice command.

See “Defensive Driving” in the owner’s manual.

Infotainment System

The infotainment system is controlled by using the infotainment display, the controls on the center stack, steering wheel controls, and voice recognition.



4 Introduction

1.

- Press to go to the Home Page. See “Home Page” later in this section.

2.

- Radio: Press and release to go to the previous station or channel. Press and hold to fast seek the next strongest previous station or channel.
- USB/BT Music/Pictures: Press and hold to go to the previous content. Press and hold to fast rewind.

3.

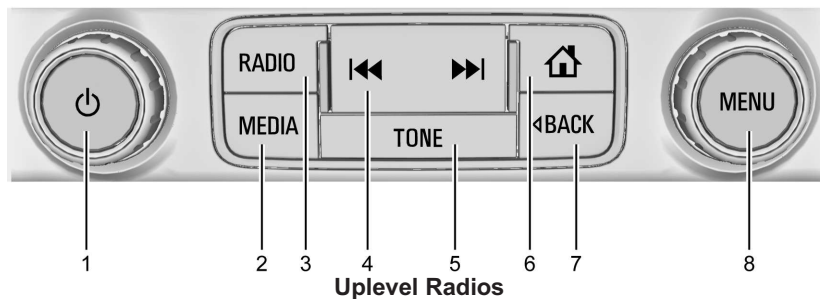
- Press to turn the power on.
- Press and hold to turn the power off.
- Press to mute the system when on.
- Turn to decrease or increase the volume.

4.

- Radio: Press and release to go to the next station or channel. Press and hold to fast seek the next strongest station or channel.
- USB/BT Music/Pictures: Press and hold to go to the next content. Press and hold to fast forward.

5.

- Press and release to access the phone screen, answer an incoming call, or access the device home screen. Press and hold to access Press to Talk.



Uplevel Radios

1. (Power)

- When off, press to turn the system on. Press and hold to turn off.
- When on, press to mute the system. Press again to unmute the system.
- Turn to increase or decrease the volume.

2. MEDIA

- Press to change the media source to USB, Bluetooth, or AUX.

3. RADIO

- Press to change the audio source to AM, FM, or SXM, if equipped.

4. or

- AM, FM, or SXM, if equipped: Press to seek to the previous strong

station. Press to seek the next strong station. See *AM-FM Radio* ⇨ 10.

- USB, AUX, or Bluetooth Audio: Press to seek the beginning of the current or previous track. Press and hold to quickly reverse through a track. Release to return to playing speed. Press to seek the next track. Press and hold to fast forward through a track. Release to return to playing speed. See *USB Port* ⇨ 14, *Auxiliary Jack* ⇨ 17, or *Bluetooth Audio* ⇨ 17.

5. TONE

- If equipped, press to adjust the Bass, Midrange, Treble, or Surround, if equipped. See *AM-FM Radio* ⇨ 10.

6. (Home Page)

- Press to go to the Home Page. See "Home Page" later in this section.

6 Introduction

7. BACK

- Press to return to the previous display in a menu.

8. MENU

- Turn to highlight a feature. Press to activate the highlighted feature.

Home Page

The Home Page is where vehicle application icons are accessed. Some features are disabled when the vehicle is moving.

Slide a finger left/right across the screen to access the pages of icons.

Managing Home Page Icons

1. Touch and hold any of the Home Page icons to edit that icon.
2. Drag the icon to a new location on the Home Page.

Steering Wheel Controls



If equipped, some audio controls can be adjusted at the steering wheel.

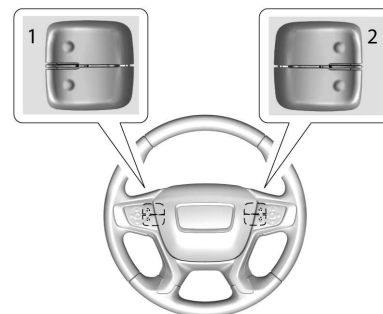
 : Press to answer an incoming call or start voice recognition. See *Bluetooth (Overview)* ⇨ 44 or *Bluetooth (Pairing and Using the Phone)* ⇨ 45 or “OnStar Overview” in the owner’s manual. Press and hold to activate Bluetooth voice pass-thru. See *Voice Recognition* ⇨ 37.

 : Press to decline an incoming call or end a current call. Press to mute or unmute the infotainment system when not on a call.

 or  : Press the five-way control to go to the previous or next area of a display in the instrument cluster.

 or  : Press the five-way control to go up or down in a list on the instrument cluster.

 : Press to select a highlighted menu option.



The favorites and volume switches are on the back of the steering wheel.

1. Favorite: When on a radio source, press to select the next or previous audio broadcast favorite. When listening to a media device, press to select the next or previous track.
2. Volume: Press to increase or decrease the volume.

Using the System

Audio

Touch the Audio icon to display the active audio source page. Examples of available sources are AM, FM, SXM (if equipped), MyMedia, USB, and AUX.

Phone

Touch the Phone icon to display the Phone main page.
See *Bluetooth (Overview)* ⇨ 44 or *Bluetooth (Pairing and Using the Phone)* ⇨ 45.

Nav/OnStar Nav

Touch the Nav icon to display the navigation map or OnStar Turn-by-Turn Navigation. See *Using the Navigation System* ⇨ 21 or “OnStar Overview” in the owner’s manual.

Climate

Touch the Climate icon to display the Climate main page. See “Dual Automatic Climate Control System” in the owner’s manual.

Users

Touch the Users icon to sign in or create a new user profile and follow the on-screen instructions.

Only four user profiles can be active at one time in the vehicle. It may be necessary to remove a profile from the menu before creating or signing into an existing profile. The removed profile can be logged into at a later time.

Settings

Touch the Settings icon to display the Settings menu. See *Settings* ⇨ 51.

Apple CarPlay

Touch the Apple CarPlay icon to activate Apple CarPlay (if equipped) after a supported device is connected. See *Apple CarPlay and Android Auto* ⇨ 49.

Android Auto

Touch the Android Auto icon to activate Android Auto (if equipped) after a supported device is connected. See *Apple CarPlay and Android Auto* ⇨ 49.

Shop

If equipped, in-vehicle apps are available for download. Touch the Shop icon on the Home Page to begin.

Downloading and using apps requires Internet connectivity and a data plan, which can be accessed through the vehicle’s built-in 4G LTE Wi-Fi hotspot, if equipped, or a

8 Introduction

compatible mobile device hotspot. On most mobile devices, activation of the Wi-Fi hotspot is in the device's Settings menu under Mobile Network Sharing, Personal Hotspot, Mobile Hotspot, or similar.

To purchase data for the in-vehicle Wi-Fi hotspot, if equipped, touch Shop on the Home Page or contact an OnStar Advisor. The vehicle must have active OnStar service and a payment method on file.

Availability of apps and connectivity varies by vehicle, conditions, and location. Data plan rates apply. For more information, see my.gmc.com/learn.

OnStar Services

If equipped, touch the OnStar Services icon to display the OnStar Services and Account pages. See "OnStar Overview" in the owner's manual and *OnStar System* ⇨ 19.

Rear Climate

If equipped, touch the Rear Climate icon to display the Rear Climate main page. See "Rear Climate Control System" in the owner's manual.

Camera

If equipped, touch the Camera icon to access the camera application. See "Assistance Systems for Parking or Backing" in the owner's manual.

Shortcut Tray

The shortcut tray is near the bottom of the screen. It displays up to four applications.

Infotainment Display Features

Infotainment display features show on the display when available. When a feature is unavailable, it may gray out. When a feature is selected, it may highlight.

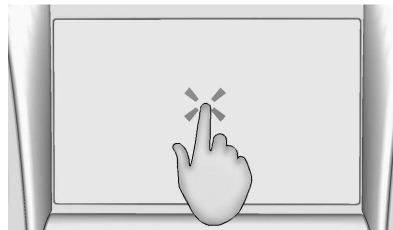
Haptic Feedback

Haptic feedback is a pulse that occurs when an option is touched on the infotainment display or when controls on the center stack are pressed.

Infotainment Gestures

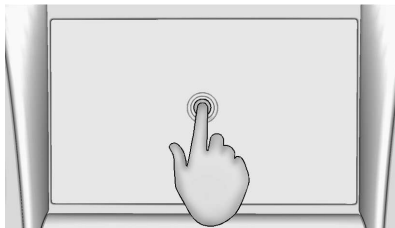
Use the following finger gestures to control the infotainment system.

Touch/Tap



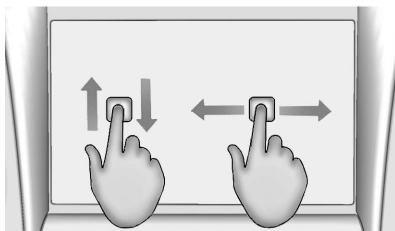
Touch/Tap is used to select an option, activate an application, or change the location inside a map.

Touch and Hold



Touch and hold can be used to start another gesture, or to move or delete an application.

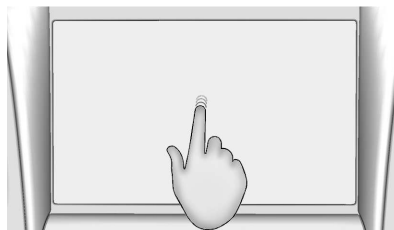
Drag



Drag is used to move applications on the Home Page, or to pan the map. To drag the item, it must be

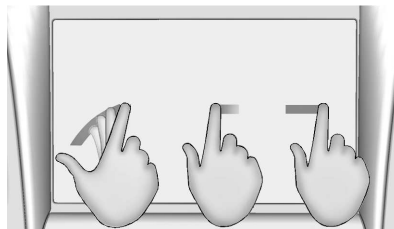
held and moved along the display to the new location. This can be done up, down, right, or left.

Nudge



Nudge is used to move items a short distance on a list or a map. To nudge, hold and move the selected item up or down to a new location.

Fling or Swipe



Fling or swipe is used to scroll through a list, pan the map, or change page views. Do this by placing a finger on the display then moving it rapidly up and down or right and left.

Cleaning High Gloss Surfaces and Vehicle Information and Radio Displays

For vehicles with high gloss surfaces or vehicle displays, use a microfiber cloth to wipe surfaces. Before wiping the surface with the microfiber cloth, use a soft bristle brush to remove dirt that could scratch the surface. Then use the microfiber cloth by gently rubbing to clean. Never use window cleaners or solvents. Periodically hand wash the microfiber cloth separately, using mild soap. Do not use bleach or fabric softener. Rinse thoroughly and air dry before next use.

Software Updates

Over-the-Air Software Updates

See "Updates" under *Settings* ⇨ 51 for details on software updates.

10 Radio

Radio

AM-FM Radio

Playing the Radio

From the Home Page, touch Audio to display the active audio source page. Choose from the three most recently used sources listed at the left side of the display or touch More to display a list of available resources. Examples of available sources are: AM, FM, SXM (if equipped), MyMedia, USB, AUX, and Bluetooth.

Infotainment System Sound Menu

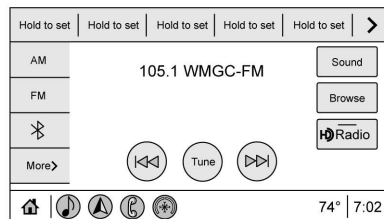
From any of the audio source main pages, touch Sound to display the following:

Equalizer : Touch to adjust Bass, Midrange, Treble, and Surround (if equipped) using the controls on the infotainment display.

Fade/Balance : Touch to adjust by using the controls on the infotainment display or by tapping/ dragging the crosshair.

Finding a Station

Seeking a Station



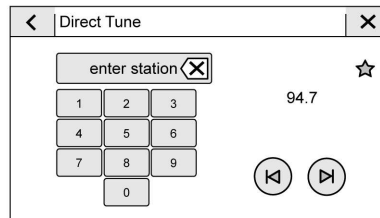
From the AM, FM, or SXM (if equipped) option, touch or on the infotainment display to search for the previous or next strong station.

Browsing Stations

From the AM, FM, or SXM (if equipped) display, touch Browse to list all available stations. Navigate up and down through all stations by scrolling the list. Touch the station you want to listen to. Touch to save the station as a favorite.

If equipped, touch Update Station List to update the active stations in your area.

Direct Tune



Access Direct Tune by touching Tune on the infotainment display to source AM, FM, or SXM (if equipped) and bring up the keypad. Navigate up and down through all frequencies using or . Directly enter a station or channel using the keypad. When a new station or channel is entered, the information about that station or channel displays on the right side. This information will update with each new valid frequency tuned.

The keypad will gray out entries that do not contribute to a valid frequency and will automatically place a decimal point within the frequency number.

Touch (X) to delete one number at a time. Touch and hold (X) to delete all numbers.

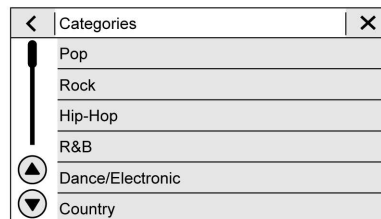
A valid AM-FM station will automatically tune to the new frequency but not close the Direct Tune display. When listening to SXM (if equipped), touch Go after entering the channel. Touch the Back icon on the infotainment display or X to exit out of the Direct Tune display.

The tune arrows on the right side of the Direct Tune display tune through the complete station list one station step at a time per touch. A touch and hold advances through stations quickly.

HD Radio multicast stations cannot be tuned directly through the Direct Tune feature. Only the analog or HD1 station can use that feature.

Use K or D to adjust to the multicast stations.

AM, FM, and SXM Categories



From the AM, FM, or SXM (if equipped) display, touch Categories at the top of the Browse menu to access the categories list. The list contains names associated with the AM or FM stations, or SXM channels. Touch a category name to display a list of stations or channels for that category. Selecting a station or channel from the list tunes the radio to that station or channel.

Storing Radio Station Favorites

Favorites are displayed in the area at the top of the display.

AM, FM, SXM, and HD Radio Stations : Touch and hold a preset to store the current station or

channel as a favorite. Touch a saved favorite to recall a favorite station.

Favorites can also be stored by touching ☆ in a station or channel list. This will highlight indicating that it is now stored as a favorite.

The number of favorites displayed is automatically adjusted by default, but can be manually adjusted in Settings in the System tab under Favorites and then Set Number of Audio Favorites it can also be adjusted in Settings in the Apps tab under Audio and then Set Number of Audio Favorites.

HD Radio Technology

If equipped, HD Radio Technology is a free service with features such as digital quality sound, more stations available on a single frequency such as HD2 and HD3, and display information such as artist and song title.

From the AM or FM display, touch HD Radio to turn HD Radio reception on or off.

12 Radio

Station Access

To access HD Radio stations:

1. Tune the radio to the station.
If the HD Radio reception is turned on and the station is broadcasting with HD Radio technology, the radio will display the HD2/HD3 channels available and will automatically switch to digital audio indicated with the HD logo.
2. Touch **⏮** or **⏭** on the infotainment display to tune to the previous or next HD Radio station.

There may be a delay before the station starts playing.

The HD Radio station number is indicated next to the HD logo.

HD Radio stations can be saved as favorites.

For a list of all stations, see www.hdradio.com.

HD Radio Troubleshooting

Digital Audio Delay : Wait for the signal to process. This can take several seconds.

Volume Change, Audio Skip, Echo, Digital Audio Lost : Station signal strength may be weak, the station is out of range, or the station may be out alignment. Verify proper reception on another station.

If the HD Radio signal loses reception while listening to HD1, the radio will go back to the analog version of the radio station.

If the HD Radio signal loses reception while listening to stations HD2 to HD8, the radio mutes until the signal can be recovered or until the station is changed.

HD Radio reception can be disabled if driving in a weak signal area. Touch HD Radio On/Off to toggle HD Radio reception on and off.

Satellite Radio

If equipped, vehicles with a valid SiriusXM satellite radio subscription can receive SXM programming.

SiriusXM satellite radio has a wide variety of programming and commercial-free music, coast to coast, and in digital-quality sound. In the U.S. see www.siriusxm.com or call 1-888-601-6296. In Canada see www.siriusxm.ca or call 1-877-438-9677.

When SXM is active, the channel name, number, song title, and artist appear on the display.

Radio Reception

Unplug electronic devices from the accessory power outlets if there is interference or static in the radio.

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. 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.

SiriusXM Satellite Radio Service

If equipped, SiriusXM Satellite Radio Service provides digital radio reception. 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 SiriusXM signal for a period of time.

Mobile Device Usage

Mobile device usage, such as making or receiving calls, charging, or just having the mobile device on

may cause static interference in the radio. Unplug the mobile device or turn it off if this happens.

Multi-Band Antenna

The roof antenna is for OnStar, SiriusXM Satellite Radio, if equipped, and GPS (Global Positioning System). Keep clear of obstructions for clear reception. If the vehicle has a sunroof, and it is open, reception can also be affected.

14 Audio Players

Audio Players

Avoiding Untrusted Media Devices

When using media devices such as CDs, DVDs, Blu-ray Discs, SD cards, USB devices, and mobile devices, consider the source. Untrusted media devices could contain files that affect system operation or performance. Avoid use if the content or origin cannot be trusted.

USB Port

Audio stored on a USB device may be listened to.

This vehicle has an A-type and a C-type USB port in the center stack. These ports are for data and charging. There may be two A-type USB ports in the center console under the armrest for data and charging. There are two A-type USB ports behind the center console for charging only.

Playing from a USB

A USB mass storage device can be connected to the USB port.

Audio extensions supported by the USB are:

- FLAC
- MP3
- WMA
- AAC
- OGG
- 3GPP

Gracenote

When plugging in a USB device, Gracenote service builds voice tags for music. Voice tags allow artists, albums with hard to pronounce names, and nicknames to be used to play music through voice recognition.

While indexing, infotainment features are available.

My Media Library

My Media is only available when more than one indexed device is connected. It allows access to

content from all indexed media sources. My Media will show as an available source in the Source page.

USB MP3 Player and USB Devices

The USB MP3 players and USB devices connected must comply with the USB Mass Storage Class specification (USB MSC).

To play a USB device:

1. Connect the USB.
2. Touch Audio from the Home Page.
3. Touch More and then touch the USB device.

Use the following when playing an active USB source:

▷ : Touch to play the current media source.

⏸ : Touch to pause playback of the current media source.

⏮ :

- Touch to seek to the beginning of the current or previous track.

- Touch and hold to reverse quickly through playback. Release to return to playing speed. Elapsed time displays.

⏮:

- Touch to seek to the next track.
- Touch and hold to advance quickly through playback. Release to return to playing speed. Elapsed time displays.

Shuffle : Touch the shuffle icon to play music in random order.

USB Sound Menu

See “Infotainment System Sound Menu” under *AM-FM Radio* ⇨ 10.

USB Browse Menu

When a list of songs, albums, artists, or other types of media displays, the icons △, ▽, and A-Z appear on the left side. Select A-Z to view a display that will show all letters of the alphabet and select the letter to go to.

Touch △ or ▽ to move the list up and down.

Touch Browse and the following may display:

Playlists:

Supported Playlist extensions are m3u, pls, and wpl.

1. Touch to view the playlists stored on the USB.
2. Touch a playlist to view the list of All Songs in that playlist.
3. Touch a song from the list to begin playback.

Artists:

1. Touch to view the list of artists stored on the USB.
2. Touch an artist name to view a list of all albums by the artist.
3. To select a song, touch All Songs or touch an album and then touch a song from the list.

Songs:

1. Touch to display a list of All Songs on the USB.
2. To begin playback, touch a song from the list.

Albums:

1. Touch to view the albums on the USB.
2. Touch the album to view a list of All Songs on the album.
3. Touch a song from the list to begin playback.

Genres:

1. Touch to view the genres on the USB.
2. Touch a genre to view a list of artists.
3. Touch an artist to view albums by that artist.
4. Touch an album to view songs on the album.
5. Touch a song to start playback.

iTunes Radio : Touch to view iTunes Radio on the iPhone to get a list of stations.

Compilations : Touch to view the Compilations on the USB.

Composers:

1. Touch to view the composers on the USB.

16 Audio Players

2. Touch a Composer to view a list of albums by that composer.
3. Touch an album or All Songs to view a list of songs.
4. Touch a song from the list to begin playback.

Folders:

1. Touch to view the directories on the USB.
2. Touch a folder to view a list of all files.
3. Touch a file from the list to begin playback.

Podcasts : Touch to view the podcasts on the USB and get a list of podcast episodes.

Audiobooks:

1. Touch to view the audiobooks stored on the USB.
2. Touch an audiobook to get a list of chapters.
3. Touch the chapter from the list to begin playback.

File System and Naming

File systems supported by the USB are:

- FAT32
- NTFS
- HFS+

The songs, artists, albums, and genres are taken from the file's song information and are only displayed if present. The radio displays the file name as the track name if the song information is not available.

Supported Apple Devices

To view supported devices, see my.gmc.com/learn.

Storing and Recalling Media Favorites

To store media favorites, touch Browse to display a list of media types.

Select from one of the following Browse options to save a favorite:

Playlists : Touch ☆ next to any playlist to store the playlist as a favorite. Touch a saved favorite to recall a favorite playlist. The first song in the playlist begins to play.

Artists : Touch ☆ next to any artist to store the artist as a favorite. Touch a saved favorite to recall a favorite artist. The first song in the artist list begins to play.

Songs : Touch ☆ next to any song to store the song as a favorite. Touch a saved favorite to recall a favorite song.

Albums : Touch ☆ next to any album to store the album as a favorite. Touch a saved favorite to recall a favorite album. The first song in the album list begins to play.

Genres : Touch ☆ next to any genre to store the genre as a favorite. Touch a saved favorite to recall a favorite genre. The first song of the genre begins to play.

Podcasts : Touch ☆ next to any podcast to store the podcast as a favorite. Touch a saved favorite to recall a favorite podcast. The podcast begins to play.

Audiobooks : Touch ☆ next to any audiobook to store the audiobook as a favorite. Touch a saved favorite to recall a favorite audiobook. The first chapter in the audiobook begins to play.

Media Playback and Mute

USB playback will be paused if the system is muted. If the steering wheel mute control is pressed again, playback will resume.

If the source is changed while in mute, playback resumes and audio will unmute.

Auxiliary Jack

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

- Laptop computer
- Audio music player

This jack is not an audio output. Do not plug headphones into the auxiliary input jack. Set up an 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 can play audio from the device over the vehicle speakers.

If an auxiliary device has already been connected, but a different source is currently active, touch More and then touch AUX to make the source active.

Shuffle and Browse are not available in the AUX source menu.

Bluetooth Audio

Music may be played from a paired Bluetooth device.

See *Bluetooth (Overview)* ⇨ 44 or *Bluetooth (Pairing and Using the Phone)* ⇨ 45 for help pairing a device.

Volume and song selection may be controlled by using the infotainment controls or the mobile device. If Bluetooth is selected and no volume is present, check the volume setting on both your mobile device and the infotainment system.

Music can be launched by touching Bluetooth from the recent sources list on the left of the display or by touching More and selecting the Bluetooth device.

To play music via Bluetooth:

1. Power on the device, and pair to connect the device.
2. Once paired, touch Audio from the Home Page, then touch Bluetooth from the recent sources list on the left of the display.

Bluetooth Sound Menu

See “Infotainment System Sound Menu” under *AM-FM Radio* ⇨ 10.

18 Audio Players

Manage Bluetooth Devices

From the Home Page:

1. Touch Audio.
2. Touch More.
3. Touch Bluetooth.
4. Touch Devices to add or delete devices.

When selecting Bluetooth, the radio may not be able to launch the audio player on the connected device to start playing. When the vehicle is not moving, use the mobile device to begin playback.

All devices launch audio differently. When selecting Bluetooth as a source, the radio may show as paused on the display. Press play on the device or touch  on the display to begin playback.

Browse functionality will be provided where supported by the Bluetooth device. This media content will not be part of the MyMedia source mode.

Some smartphones support sending Bluetooth music information to display on the radio. When the radio receives this information, it will check to see if any is available and display it. For more information about supported Bluetooth features, see my.gmc.com/learn.

OnStar System

OnStar 4G LTE



If equipped with OnStar 4G LTE, up to seven devices, such as smartphones, tablets, and laptops, can be connected to high-speed Internet through the vehicle's built-in Wi-Fi hotspot.

Call 1-888-4ONSTAR (1-888-083-7827) to connect to an OnStar Advisor for assistance. See www.onstar.com for vehicle availability, details, and system limitations. Service and connectivity may vary by make, model, year, carrier, availability, and conditions. 4G LTE service is available in select markets. 4G LTE performance is based on industry averages and vehicle systems design. Some services require a data plan.

The OnStar App

If equipped, the infotainment system has OnStar controls in the embedded OnStar app on the Home Page. All OnStar functions that can be performed with the buttons can be done using the app. To open the app, touch the OnStar icon on the Home Page. Features vary by region and model.

Services

The Services tab displays the default view for the app. Use this page to launch the available OnStar services. Touch a service to open its display. Touch Hands-Free Calling (HFC) to launch the phone app. Touch Wi-Fi to launch the connections manager.

Account

The Account tab displays a snapshot of the account linked with the vehicle. If there is no such account, this tab will show all values as —. The  will be active even if there is no active account.

Advisor Call

Selecting Advisor Call is the same as pressing  or calling 1-888-466-7827. The X icon in the upper right corner of the display does not end the call, but returns to the previous screen.

Turn-by-Turn Directions

With an OnStar subscription to the Guidance Plan, an OnStar Advisor can download a destination to the vehicle or its embedded navigation system, if equipped. Select Turn-by-Turn Directions from the main page of the OnStar app and follow the display prompts. A destination transfer from OnStar will show the detail view of the destination when it is transferred from OnStar to the Navigation application. Touch OK to go back to the previous menu. An ABS and Guidance or Navigation Add-On Plan is required. See www.onstar.com for a coverage map. Services vary by model. Map coverage is available in the United States, Puerto Rico, and Canada.

20 OnStar System

Wi-Fi Hotspot

Touch to display the Settings page, which shows the configurations for the vehicle hotspot and allows them to be changed.

For more information, see www.onstar.com.

OnStar Smart Driver

OnStar Smart Driver provides information about driving behavior to help maximize overall vehicle performance, reduce wear and tear, and enhance fuel efficiency. An Insurance Discounts Eligibility feature is also offered within OnStar Smart Driver. See www.onstar.com for details regarding vehicle eligibility and system limitations.

OnStar, General Motors, and their affiliates are not insurance providers. Obtain insurance only from licensed insurance providers.

Navigation

Using the Navigation System

Touch Nav on the Home Page or the Nav icon in the shortcut tray near the bottom of the infotainment display to access the navigation application. The initial view when navigation opens is the full map view screen with the top search field bar open.

While the vehicle is stopped, the search bar will stay open until manually closed by touching **X**. When the vehicle starts moving, the search bar will minimize to a search icon so that the map is maximized while in an inactive guidance view.

If the vehicle is not signed into a customized profile, the current location icon uses a generic symbol. Once signed into a customized profile, the current location symbol will show a customized icon. See *Navigation Symbols* ⇨ 24.

While the vehicle is running without a route, a drive To Home and To Work pop-up will display on top of the current location icon. The drive To Home and To Work icon will disappear after 15 seconds or tap the current location icon and click the drive To Home pop-up to start a route.

If Home and Work are not set, touch **⚙** (Settings) on the map to access the Map and Navigation Settings menu. Touch the Set Up My Places option to display Show My Places on Map. This option can be enabled or disabled. If this option is enabled, enter a Home address. Below the Home address, enter a work address or select a place name if not work and enter address. Touch Done when finished.

Predictive Navigation

Predictive Navigation is a feature that will display an Enable Predictive Navigation prompt the first time navigation is launched. Touch to Confirm or Decline. If enabled, this feature learns the preferences by remembering where

the vehicle has been. It uses the locations and navigation history to personalize routes and results. The feature is disabled by default.

Predictive Navigation will learn elements such as:

- Home and important address detection.
- Personalized route.
- Smart POI icon display.
- Predictive traffic.

Predictive Navigation can also be enabled or disabled in *Settings* ⇨ 51.

Navigation Preferences

Touch **⚙** while in the map view to display a list of the Map and Navigation Settings options.

Features displayed in the Map and Navigation Settings menu can be selected to adjust navigation preferences.

To exit out of a list, touch **X** in the top right corner to return to the main map view.

22 Navigation

It is advised to set up preferences before setting a destination.

Additional navigation preferences that will display are:

- Routing Options
- Map Configuration
- Set Up My Places
- Navigation Voice Control
- Map Colors
- Alert Preferences
- History
- About

Routing Options

Touch to access the Route Option preferences. The choices are:

- Route Type – This feature has two selections to choose from when starting navigation: Fastest or Eco-Friendly.

- Avoid on Route – This feature allows setting preferred ways of driving along the route by avoiding special characteristics such as:

- Highways
- Unpaved Roads
- Ferries
- Carpool Lanes
- Toll Roads
- Tunnels
- Country Borders

Map Configurations

Touch to choose between basic map feature configurations:

3D Landmark (Default is On) :

This setting can be turned On or Off. When turned on, the system will display all 3D Landmarks on the map when zoomed in from level five and beyond.

3D Building (Default is Off) : This setting can be turned On or Off. When turned on, the system will display all of the possible 3D

building shapes on the map when zoomed in from level three and beyond.

3D Terrain (Default is Off) : When turned on, the system will display terrain information on the map in 3D view.

Auto-Zoom (Default is On) : When turned on, the system will automatically adjust the map zoom to level two when the vehicle is approaching a turn. After the turn is completed, the system automatically brings the zoom level back to the originally set level. If the vehicle is approaching a turn with the next turn occurring shortly after, the Auto-Zoom will remain on until both turns are completed.

Set Up My Places

Touch to manage the Home and Work settings. Options for Set Up My Places are:

- Show My Places on Map – Touch to enable or disable from showing the estimated time to Home and Work.

The options can be enabled or to disabled.

- Home – Enter the address information into the system for Home.
- Work – Enter the address or keyword information into the system for Work or any other frequently used destination.

Navigation Voice Control

Touch Navigation Voice Control to access the voice control setting display.

- Navigation Volume
 - To adjust the volume level, touch the up and down arrows.
- Navigation Voice Prompt Level during a Call. Options available are:
 - Full Prompt (Selected by default)
 - Tone Only
 - None

Map Colors

- Auto – Select Auto to automatically change modes based on lighting conditions.
- Day (Light)
- Night (Dark)

Alert Preferences

Alert Preferences will allow the following group of alerts to be set On or Off mode for both inactive and active guidance view:

- Congestion Alerts
 - This alert displays congestion ahead.
- Road Safety Alerts
 - This alerts School Zone and Traffic Camera Alerts ahead.

History

Touch History to access the History options. These options are:

- Clear Recent Destinations – Touch  to clear the recent destinations.

- Clear Search History – Touch  to clear the search history.

About

Touch to display software information, such as:

- Terms and Conditions
- Privacy Statement
- Navigation Version

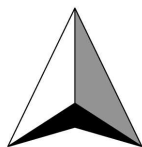
Maps

The map database is stored on an SD card that is inserted into an SD port connected to the Infotainment system. If an error message for SD card missing is displayed, the infotainment system will not have the map database available for the navigation app to work.

24 Navigation

Navigation Symbols

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



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

The current location icon uses a generic avatar while guidance is non-active.

or



Once a profile is created and guidance is active, an avatar that can be customized will show to

indicate the current position and heading direction of the vehicle on the map.



The destination pin marks the final destination after a route has been planned. If touched, the address bubble along with ☆ will appear. Touch the left side of the bubble to go to the details page or touch the right ☆ (Favorite) within the bubble to toggle between “Save to Favorites” or “Remove from Favorites.” The bubble will time out if not used. Touch the destination pin again to hide it.

The waypoint symbol is the same type of symbol that marks one or more set waypoints and is indicated by a number within the pin icon.

A waypoint is a stopover destination point added to the planned route.

50 ft
2:40pm



An overview of the route displays on a bar. This bar indicates progress along the route and any traffic that is present. Tap the route bar to zoom out on the map and view the entire route. Tap the bar again to return the map view to the previous view. The duration of the destination will display if the estimated time of arrival (ETA) is touched.

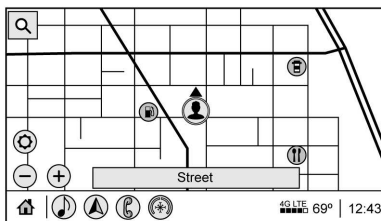
The Traffic Indicator displays the trip showing traffic by color and any icons showing incidents along the route. As the route proceeds, the vehicle icon moves up the display along the bar visually, indicating vehicle progression.

Current Location

When the vehicle is parked and not in a Navigation session, the current profiled icon is centered on the map view, highlighting the current location.

Destination

Touch Nav on the Home Page to access the map view.



Touch the Search icon from the map view to access the Search menu.

Receiving Destination Directions from Different Sources

Destinations can be received or transferred from different sources for the system's navigation apps to use for route guidance.

Some of these sources are:

- Navigation from search results.
- OnStar Advisor destination download.
- An address from the Contacts list.

- An application on the smartphone such as myGMC that can send destinations to the vehicle.
- An application downloaded to the vehicle such as OnStar AtYourService that can send destinations to the navigation system.

Waypoints

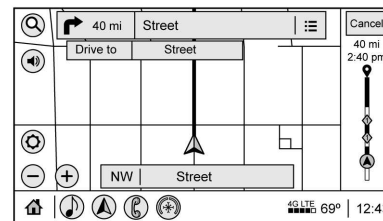
Up to five waypoints can be added to a route. Touch Go to add a POI as a waypoint or set it as a new destination to replace the current destination. Route options are not available for waypoints.

A pop-up menu displays with the options to do the following:

- **X** – Return to the previous screen.
- Add to Trip – Add the destination along the route.
- New Destination – Replace the current destination with the POI as a new destination.

Arriving at a Waypoint

When approaching a waypoint stop, the system will display a Destination Arrival view. When the vehicle arrives at the destination, if the vehicle keeps moving, the navigation view will be kept with the next waypoint or destination guidance. A pop-up will appear, showing Drive to <next destination>.



If the vehicle comes within one mile of the waypoint and then passes the waypoint or gets out of the current route, the system will automatically reroute back to this waypoint. At the same time, it will show a Drive to icon along with the next waypoint address so the current waypoint can

26 Navigation

be skipped and guidance can resume to the next waypoint or destination.

Editing a Waypoint

When a waypoint is added during active guidance, the system allows a waypoint to be deleted or to be moved into a different order.

To edit a waypoint:

1. Touch the list icon on the upper right side of the infotainment display to show the Route List.
2. Touch the Edit option.
3. Touch Destinations to switch to the destinations display.
 - Touch the arrow until it highlights, then drag to move the waypoint order up or down the list.
 - Touch the trash icon to delete the waypoint. A pop-up will display asking for confirmation. Once the request is confirmed, the system will remove the address from the destinations list. Touch **X**

on the top right corner so the system can recalculate the route.

If there is only one address in the destinations list, the system will disable the move and delete functions. The system will not allow the final destination be deleted.

Map Information

Road network attributes are contained in the map database for map information. 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 Places of Interest (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 production. The

navigation system provides full route guidance in the detailed map areas.

Zoom Control

The zoom control display is shown on the map view. A few ways to zoom in or out are:

- Touch + or – to zoom in or out on the map.
- Double tap with one finger to zoom in or single tap with two fingers to zoom out on the map.
- Use the index finger and thumb to zoom out by pinching and then zoom in by spreading those two fingers on the map.

Map Gestures and Map Scale

Gestures can be used to easily control the map. Some of these are:

- Pinch to zoom in or out.
- One finger double tap for zoom in and two finger double tap for zoom out.
- Panning the map.

- Two finger tilt down for changing from 2D to 3D and tilting up to change back.
- Map rotating.

See *Using the System* ⇨ 7 earlier in this section.

Mute

When under Active Guidance, the audio prompts while using navigation can be muted. Touch the speaker icon on the left side of the map. A slash will appear on the speaker to indicate voice guidance is muted.

Route Guidance View

When a destination is chosen and navigation session is active, the navigation system enters into a Route Guidance View.

When under Active Guidance, the entire route can be viewed in 2D North Up by touching the traffic bar. The map will zoom out and readjust to display the full route. When in 2D North Up Route View, the Recenter Position icon will appear in the middle of the display. Touch either

the Recenter Position icon or the traffic bar again to return to the previous view (2D or 3D).

Map Orientation

Touch Settings icon on the map to access map orientation settings. Map orientation is 3D Heading Up by default.

Available settings are:

- 3D Heading Up (Default)
- 2D Heading Up
- 2D North Up

With each touch on the icon, the map type changes to the next one. At the same time, the icon and label also changes to indicate to the user of the current map type.

In Heading maps (both 3D and 2D), if the user increases the zoom level to level nine and beyond, the system automatically switches to the 2D North Up map.

Lane Guidance

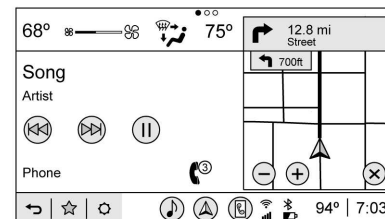
Depending on lane information, when approaching a maneuver, the map view may show the next

maneuver with the road lane information under the next turn maneuver.

Junction View

When a vehicle is on the highway and approaching the exit, an image displays the lane in which the vehicle must stay to complete the next maneuver.

Quick-Turn View



When the vehicle is approaching a turn with the next following in quick succession, a quick-turn menu shows below the primary turn menu. An audio prompt will announce the quick turn.

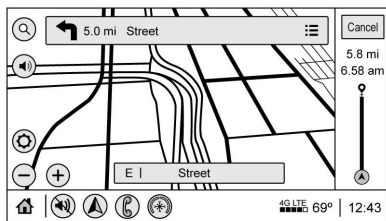
28 Navigation

Auto-Zoom

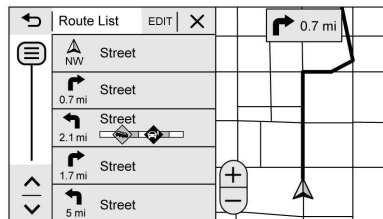
When approaching a maneuver, the map will automatically zoom in to show both the vehicle icon and the upcoming maneuver to give a better view of the maneuver. Once the maneuver is complete, the system will zoom back to the previous zoom level. Touch  on the map to access Map Configuration, then touch Auto-Zoom. This feature can be enabled or disabled.

If the vehicle has been stopped or turned off during route guidance, the route guidance will auto-resume.

Route List



Touch the menu option next to the next turn street name to display the Route List.



The Route List displays the turns and instructions from the current point to the end of the route guidance.

If there is traffic along a route segment, a horizontal bar indicator with incident icons displays.

Editing Route List

The Route List can be edited by choosing Edit, which expands the list to fill the full display and enters the Edit Mode. While in Edit Mode, an unwanted route segment can be removed from the route by touching  next to the segment. A pop-up confirmation appears to confirm segment removal.

When the segment of route has been removed, that segment and all segments after are replaced by an

activity indicator while the new route is recalculated. When the recalculation is complete, the activity indicator is replaced with the new route segments.

Highway Exit Lists

The Exit List is opened by touching . This icon displays next to the current street name near the bottom of the display. The icon only appears when on a highway with defined exits.

While traveling on roads with designated exits, an Exit List may be available. The Exit List displays the exit number, distance to exit from the current vehicle position, and convenience stops that may be available, such as gas stations, coffee, restaurants, and lodging.

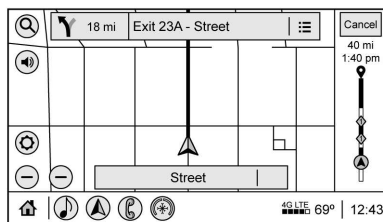
Traffic Information

Traffic Indicator

The Traffic Indicator displays traffic conditions within the route. The total traffic information will display a maximum of 100 km (60 mi) ahead of the vehicle. The color-coded

traffic bar is based on the traffic condition, yellow and red. The vehicle is moving from near the bottom to the top destination. A traffic icon will show when there is traffic.

Next Maneuver Menu



When in Route Guidance, the Next Maneuver Turn Arrow, Street Name, and Maneuver Distance are displayed in the Next Maneuver menu at the top of the display overlaying the map. ETA, Distance to Destination, and Traffic Indicator are displayed in a panel pinned to the right of the display.

Navigation Next Turn Maneuver Alert

If the navigation is not open when a near maneuver prompt is given, it is shown as an alert. Touch the alert to go to the main navigation view or touch **X** to dismiss the alert.

Repeat Voice Guidance



This symbol indicates the next guidance maneuver. Touch it to repeat the last spoken guidance instruction.

Adaptive Routing Alert

During active guidance, the system will continue looking for a better route than the one that was initially calculated by the system.

When a Better Route is Available

A better route is an improved ETA to avoid current traffic congestion or road closures around the vehicle's position.

If a route is found, the system will automatically reroute the driver to the better route if Auto Reroute is set. If Auto Reroute is not set, it will offer the option take the better route.

When No Better Route is Available

During active guidance, if the system determines that there is an incident ahead but there is not a better route, the system will play a tone and show a Quick Notice. This will only show once per incident.

Incident Reports

Incident report icons, along with traffic flow data, display on the map during both active and inactive guidance.

Traffic Info

While in map view, touch the Settings icon to access Traffic Info. When turned on, the Traffic Info

30 Navigation

feature provides an overview of the traffic flow using different coded colors. The following options are available for rerouting:

- **Auto Reroute to Better Route** – The system will automatically reroute if the system detects there is a traffic issue ahead.
- **Ask Before Rerouting (Default)** – If the system detects there is a traffic issue ahead, it will display a pop-up with details about the issue. The driver can choose to reroute or cancel the alert.
- **Never Check for Better Route** – The system will not check for any better route until the user chooses any of the above options.

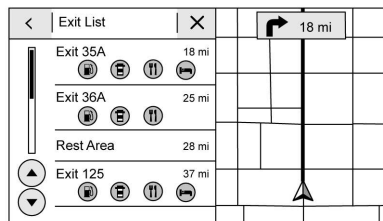
End Route

Touch Cancel at the top right corner to end active guidance and return to inactive guidance. If active guidance is canceled before the destination has been reached, a pop-up option to Resume Trip will appear.

Resume Trip

The trip can be resumed if it was canceled by displaying the Resume Trip pop-up option.

If the system has determined that the destination has been reached, either because the arrival view displayed or the destination has been passed, the Resume Trip option will not appear.



Touch a convenience icon such as food or fuel to display a list of only those POIs near that exit. Not all POIs will show.

Favorites

The navigation favorites can have contacts, addresses, or POIs that have been saved through the favorite icon on the Detail map view.

Accessing Favorites

To manage favorites, touch Settings from the Home Page to access the Setting main page. Touch the System tab. Scroll down to Favorites and touch to access the Manage Favorites option.

While in the Nav app, touch ☆ next to the search bar near the top of the display. After selecting the search option, touch ☆ to view the saved favorites.

Saving Favorites

Favorites can be added from a number of the system's applications. While in Detail map view, touch ☆ Favorite to save content for navigation as a favorite.

Renaming Navigation Favorites

1. Touch Settings from the Home Page and then touch the System tab.
2. Touch Favorites on the infotainment display to access the Manage Favorites option.
3. Touch a saved Navigation favorite to access the edit icon. Touch the edit icon to rename the favorite.
4. Touch Save to store the renamed favorite.

Recents

Touch  to access a list of recent destinations.

Recenter Position Icon

Touch the Recenter Position arrow in the middle of the map view to reset the map back to the current location.

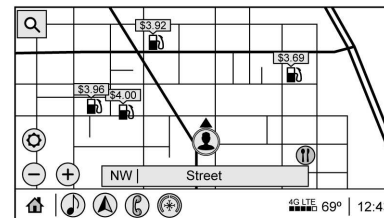
Last Parked Location

The Last Parked Location is the last location the vehicle engine was turned off. That location is displayed in the first row of the Recents list. Touching the last Parked Location shows the Address Details view to either save the address or drive to it. The Last Parked Location can be deleted by entering the Edit display. Once the Last Parked Location is deleted, it no longer appears in the Recents list, unless the vehicle is started at that location again.

Show POI Icons

There are two rows of POI categories that can be displayed. These POI categories are stored under  on the map. While in the Navigation Settings application, up to eight categories of icons can be selected.

Smart POI Icons on Map



The smart POI icons such as fuel stations and parking are programmed to appear in context to the situation based on time, location, driver search behavior, driving conditions, and vehicle conditions.

If the vehicle is running low on fuel, fuel station icons would appear, showing real-time prices.

Touching an icon on the map opens the corresponding Detail map view for the icon that contains:

- Left side: Name and address of the POI.
- Right side: Car icon + ETE (Estimated Time of Enroute.)

32 Navigation

Smart Fuel Station Icons

Fuel station prices are shown for regular unleaded fuel for nearby stations when the vehicle is low on fuel.

Smart Parking Icons

When reaching a densely populated destination and the system determines that parking may be limited, the infotainment system will attempt to display nearby parking destinations with pricing information, if available.

Report an Issue Using POI Details

In the POI details page a POI issue can be reported if the data is not accurate or something is wrong with the address. Touch the Report an Issue option near the bottom of the display to access the issue selection page. Touch one of the predefined issues on the selection page, then touch Send. The system will send the information for analysis.

Avoid on Route

While in active guidance, touch the Settings icon on the Home Page to access the Avoid on Route menu. Touch the Avoid on Route menu to view avoidance options for the active route. Touch on of the avoidance options to temporarily avoid the following types of roads on the current route:

- Highway
- Toll Roads
- Unpaved Roads (Default)
- Tunnels
- Ferries
- Country Borders
- Carpool Lanes (Default)

Touch the Remember This Setting option to save a selected configuration for future active routes. This option can be turned On or Off. The default is On.

If it is set to On, the system will save the configuration for future navigation routes.

Search

Touch Search to open the search display. It has a search field entry box, quick category icon shortcuts, recents icon, favorites icon and key.

Auto Complete

Enter a partial location in the entry field box on the search display. Auto complete will attempt to complete the destination based on what is being entered. Touch the suggested item to search.

Search While in Motion with No Front Seat Passenger Present

The Search display will not allow changes or input of text through the keyboard when the vehicle is in motion. Because of this, a display showing three rows of icons of the most commonly used categories is shown. Touching the search box will activate speech recognition.

Search While in Motion with Front-Seat Passenger Present

If the system detects that the front seat passenger is present with both driver and passenger seat belts

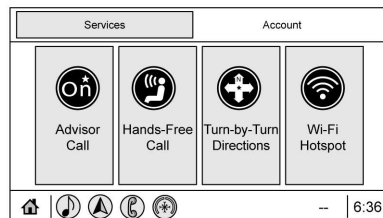
buckled, touching the search icon will display an alert message that allows the passenger to use the search display as if the vehicle were stopped.

OnStar Connected Navigation Subscription

OnStar Connected Navigation is a subscription service that enables certain capabilities within the navigation system, such as map updates, Traffic, Smart Search/Routing, and Predictive Navigation capabilities. The system will show an alert when the subscription is expiring and will ask to renew the plan.

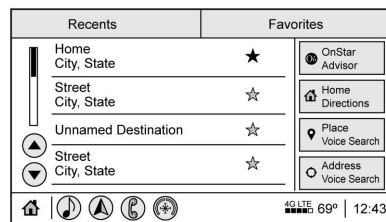
OnStar System

With an OnStar subscription to the Guidance Plan, an OnStar Advisor can download a destination to the vehicle or into the built-in navigation system.



Touch OnStar on the Home Page to access the OnStar menu. Touch the Turn-by-Turn option while on the OnStar menu.

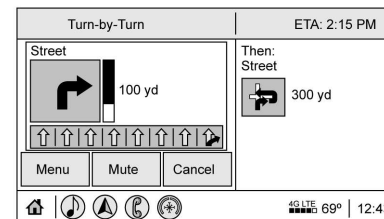
Turn-by-Turn Navigation



Touch the Turn-by-Turn Directions feature to select between Favorites and Recent Destinations. To find new locations, touch OnStar

Advisor, Home Directions, Place Voice Search, or Address Voice Search.

Lane Guidance



When available, the system will show the proper lane(s) that would be the best position to be in for the next maneuver.

Cancel a Route

If a route is in progress using either the vehicle navigation system or the OnStar Turn-by-Turn route, and a new route is requested, the current route in progress will be canceled.

34 Navigation

Global Positioning System (GPS)

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 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 GPS satellites. When the vehicle is not receiving signals from the satellites, a symbol appears in the status bar.

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* ⇨ 35 and *If the System Needs Service* ⇨ 35.

Vehicle Positioning

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 has been 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

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* ⇨ 23.

To recalibrate the vehicle's position on the map, park with the vehicle running for two to five minutes, until the vehicle position updates. Make sure the vehicle is parked in a location that is safe and has a clear view of the sky and away from large obstructions.

If the System Needs Service

If the navigation system needs service and the steps listed here have been followed but there are still problems, see *Problems with Route Guidance* ⇨ 35.

Map Data Updates

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, call the GM Nav Disc Center at 1-877-NAV-DISC (1-877-628-3472) or see www.gmnavdisc.com. If updates are needed, call the GM Nav Disc Center or order online.

Over-the-Air Vehicle Map Updates

If equipped, the infotainment system can receive map updates over the air. Map updates occur within a 161 km (100-mi) radius around the home address on file. This boundary will adjust over time based on driving patterns. The vehicle uses a Cloud-connected service to receive the data and downloads it to the system's onboard SD card, if equipped.

36 Navigation

A data plan or compatible mobile device hotspot is required. The SD card is required for navigation system function.

When a map update is available, a prompt will appear on the infotainment display. Once the update is accepted, it will download and run in the background without interrupting any infotainment functions. The download will carry over ignition cycles, stopping and starting where it left off. The updates can be set to download automatically.

See www.gmnavdisc.com for information on ordering, purchasing, and installing a new or replacement SD card.

Database Coverage Explanations

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 that previously had limited detail. See *Map Data Updates* ⇨ 35.

Voice Recognition

Voice recognition allows for hands-free operation within the navigation, audio, and mobile device applications. This feature can be started by pressing  on the steering wheel or by touching  on the infotainment display with the navigation application.

However, not all features within these areas are supported by voice commands. Generally, only complex tasks that require multiple manual interactions to complete are supported by voice commands.

For example, tasks that take more than one or two touches, such as a song or artist to play from a media device, would be supported by voice commands. Other tasks, like adjusting the volume or seeking up or down, are audio features that are easily performed by touching one or two options, and are not supported by voice commands.

In general there are flexible ways to speak commands for completing the tasks.

If your language supports it, try stating a One-Shot command, such as “Directions to address <number, street, city, state>.” Do not include the ZIP code while stating the address during the command. This type of destination entry command is supported in some languages. Another example of a One-Shot Destination Entry command is, “Directions to place of interest at <hotel>.” If these commands do not work, try saying, “Take me to Place of Interest” or “Find address” and the system will walk you through by asking additional questions.

Hybrid Speech Recognition

If equipped, this feature helps distinguish words by using Internet-based information along with the system’s voice recognition database. This allows you to speak more naturally when using voice recognition.

Using Voice Recognition

Voice recognition becomes available once the system has been initialized. This begins when the ignition is turned on. Initialization may take a few moments.

1. Press  on the steering wheel controls to activate voice recognition.
2. The audio system mutes and the system plays a prompt followed by a beep.
3. Wait until after the beep completes, then clearly speak one of the commands described in this section.

A voice recognition system prompt can be interrupted while it is playing by pressing  again.

For example, if the prompt seems to be taking too long to finish, to speak the command without waiting for the prompt to complete, press  again and wait for the beep.

38 Voice Recognition

Once voice recognition is started, both the infotainment display and instrument cluster show the selections and visual dialog content. These displays can be turned On or Off in the Tutorial Mode under *Settings* ⇨ 51.

There are three voice prompt modes supported:

- **Informative verbal prompts:** This type of prompt will provide more information regarding the supported actions.
- **Short prompts:** This type of prompt will provide simple instructions about what can be stated.
- **Auto informative prompts:** This type of prompt plays during the first few speech sessions, then automatically switches to the short prompt after some experience has been gained through using the system.

If a command is not spoken, the voice recognition system says a help prompt.

Prompts and Infotainment Displays

While a voice recognition session is active, there may be corresponding options showing on the displays. A selection can be made by manually selecting the item, or by speaking the line number for the item to select. Manual interaction in the voice recognition session is permitted. Interaction during a voice session may be completed entirely using voice commands while some manual commands may expedite a task. If a selection is made using a manual control, the voice recognition dialog will progress in the same way as if the selection was made using a voice command. Once the system completes the task, or the session is terminated, the voice recognition dialog stops.

An example of this type of manual intervention is touching an entry of a displayed number list instead of speaking the number associated with the entry desired.

Canceling Voice Recognition

- Touch or say “Cancel” or “Exit” to terminate the voice recognition session and show the display where voice recognition was initiated.
- Press  on the steering wheel controls to terminate the voice recognition session and show the display where voice recognition was initiated.

Natural Language Commands

Most languages do not support natural language commands in sentence form. For those languages, use direct commands like the examples shown on the display.

Helpful Hints for Speaking Commands

Voice recognition can understand commands that are naturally stated in sentence form or direct commands that state the application and the task.

For best results:

- Listen for the prompt and wait for the beep before saying a command or reply.
- Say “Help” or look at the infotainment display for example commands.
- Speak the command naturally, not too fast, not too slow.
- Use direct commands without a lot of extra words. For example, “Call <name> at work,” “Play” followed by the artist or song name, or “Tune” followed by the radio station number.
- Navigation destinations can be made in a single command using keywords. A few examples are: “I want directions to an address,” “I need to find a place of interest or (POI),” or “Find contact.”

The system responds with requesting more details. After saying “Place of Interest,” only major chains are available by name. Chains are businesses with at least 20 locations. For

other POIs, say the name of a category like “Restaurants,” “Shopping Malls,” or “Hospitals.”

- Navigating to a destination outside of the current country takes more than one command. The first command is to tell the system where the navigation will take place, such as an Address, Intersection, POI, or Contact. If Address or Intersection is selected, the second command is to say, “Change Country.” Once the system responds, say the country before saying the rest of the address and/or intersection.

If POI is asked for, say “Change Location,” then “Change Country.”

Direct commands might be more clearly understood by the system. An example of a direct command would be “Call <number>.” Examples of these direct commands are displayed on most of the screens while a voice session is active. If “Phone” or “Phone Commands,” is spoken, the system

understands that a phone call is requested and will respond with questions until enough details are gathered to make a call.

If a cell phone number has been saved with a name and a place, the direct command should include both, for example “Call <name> at work.”

Using Voice Recognition for List Options

When a list is displayed, a voice prompt will ask to confirm or select an option from that list.

When a display contains a list, there may be options that are available but not displayed. The list on a voice recognition screen functions the same as a list on other displays. Scrolling or flinging can be used to help display other entries from the list.

Manually scrolling or paging the list on a display during a voice recognition session suspends the current voice recognition event and plays the prompt “Please select

40 Voice Recognition

manually or touch the Back icon on the infotainment display to try again.”

If manual selection takes more than 15 seconds, the session terminates and prompts that it has timed out. The display returns to the display where voice recognition was initiated.

The Back Command

Say “Back” or touch the Back icon on the infotainment display to go to the previous display.

If in voice recognition, and “Back” is spoken all the way back to the starting display, and then “Back” is spoken one more time, the voice recognition session will cancel.

Help

Say “Help” on any voice recognition display and the help prompt for the display is played. Additionally, a pop-up may display a text version of the help prompt. If available, the text version of the help prompt will display on both the infotainment display and instrument cluster.

Touching  while the help prompt is playing will terminate the prompt and a beep will be heard. Doing this will stop the help prompt so that a voice command can be used.

Voice Recognition for the Radio

If browsing the audio sources when voice is touched, the voice recognition commands for AM, FM, and SiriusXM (if equipped) are available.

“Switch to AM” : Switch bands to AM and tune to the last AM radio station.

“Switch to FM” : Switch bands to FM and tune to the last FM radio station.

“Switch to SXM” : Switch bands to SiriusXM and tune to the last SiriusXM channel.

“Tune to <AM frequency> AM” : Tune to the radio station whose frequency is identified in the command (like “nine fifty”).

“Tune to <FM frequency> FM” :

Tune to the radio station whose frequency is identified in the command (like “one oh one point one”).

“Tune to <AM frequency> AM

HD” : Tune to the HD Radio station whose frequency is identified in the command.

“Tune to <FM frequency> FM

HD” : Tune to the HD Radio station whose frequency is identified in the command.

“Tune to <FM frequency> FM HD <HD channel number>” :

Tune to the HD Radio station whose frequency and HD channel are identified in the command.

“Tune to SXM <SXM channel

number>” : Tune to the SiriusXM radio station whose channel number is identified in the command.

“Tune to SXM <SXM channel

name>” : Tune to the SiriusXM radio station whose channel name is identified in the command.

Voice Recognition for Audio My Media

The available voice recognition commands for [browsing] My Media are:

“Play Artist” : Begin a dialog to enter a specific artist name.

“Play Artist <artist name>” : Begin playback of a specific artist.

“Play Album” : Begin a dialog to enter a specific album name.

“Play Album <album name>” : Begin playback of a specific album.

“Play Song” : Begin a dialog to enter a specific song name.

“Play Song <song name>” : Begin playback of a specific song, if available.

“Play Genre” : Begin a dialog to enter a specific genre.

“Play Genre <genre name>” : Begin playback of a specific genre.

“Play Playlist” : Begin a dialog to enter a specific playlist name.

“Play Playlist <playlist name>” : Begin playback of a specific playlist.

“Play <device name>” : Play music from a specific device identified by name. The device name is the name displayed on the display when the device is first selected as an audio source.

“Play Chapter” : Begin a dialog to enter a specific name.

“Play Chapter <chapter name>” : Begin playback of a specific chapter.

“Play Audiobook” : Begin a dialog to enter a specific audiobook.

“Play Audiobook <audiobook name>” : Begin playback of a specific audiobook.

“Play Episode” : Begin a dialog to enter a specific name.

“Play Episode <episode name>” : Begin playback of a specific episode.

“Play Podcast” : Begin a dialog to enter a specific podcast.

“Play Podcast <podcast name>” : Begin playback of a specific podcast.

“Play Video” : Begin a dialog to enter a specific name.

“Play Video <video name>” : Begin playback of a specific video.

“My Media” : Begin a dialog to enter the desired media content.

Handling Large Amounts of Media Content

It is expected that large amounts of media content will be brought into the vehicle. It may be necessary to handle large amounts of media content in a different way than smaller amounts of media. The system may limit the options of voice recognition by not allowing selection of files by voice at the highest level if the number of files exceed the maximum limit.

Changes to voice commands due to media content limits are:

- Files including other individual files of all media types such as songs, audiobook chapters, podcast episodes, and videos.

42 Voice Recognition

- Album type folders including types such as albums and audiobooks.

There are no restrictions if the number of files and albums is less than 12,000. When the number of files connected to the system is between 12,000 and 24,000, the content cannot be accessed directly with one command like "Play <song name>."

The restriction is that the command "Play Song" must be spoken first; the system will then ask for the song name. The reply command would be to say the name of the song to play.

Similar limits exist for album content. If there are more than 12,000 albums, but less than 24,000, the content cannot be accessed directly with one command like, "Play <album name>." The command "Play Album" must first be spoken; the system will then ask for the album name. The reply would be to say the name of the album to play.

Once the number of files has exceeded approximately 24,000, there is no support for accessing the songs directly through voice commands. There will still be access to the media content by using commands for playlists, artists, and genres.

The access commands for playlists, artists, and genres are prohibited after the number of this type of media exceeds 12,000.

The system will provide feedback the first time voice recognition is initiated if it has become apparent that any of these limits are reached during a device initializing process.

Voice recognition performance will degrade to some extent based on many factors when adding large amounts of data to recognize. If this is the case, perhaps accessing songs through playlists or artist name would work better.

Voice Recognition for Navigation

"Navigation" : Begin a dialog to enter specific destination information.

"Navigation Commands" : Begin a dialog to enter specific destination information.

"Address" : Begin a dialog to enter a specific destination address, which includes the entire address consisting of the house number, street name, and city and state/province. Do not include the ZIP code.

"Place of Interest" : Begin a dialog to enter a destination Place of Interest category or major brand name.

The name must be precisely spoken. Nicknames or short names for the businesses will not likely be found. Lesser known businesses might have to be located by category, such as fast food, hotels, or banks.

“Navigate to Contact” : Begin a dialog to enter a specific destination contact name.

“Cancel Route” : End route guidance.

“Take Me Home” : Create a route to a stored home location.

Voice Recognition for the Phone

“Call <contact name>” : Initiate a call to a stored contact. The command may include location if the contact has location numbers stored.

“Call <contact> At Home,” “At Work,” “On Mobile,” or “On Other” : Initiate a call to a stored contact and location at home, at work, on mobile device, or on another phone.

“Call <cell phone number>” : Initiate a call to a standard phone number seven or 10 digits in length, and also three digit emergency numbers.

“Pair Phone” : Begin the Bluetooth pairing process. Follow the instructions on the radio display.

“Redial” : Initiate a call to the last dialed number.

“Switch Phone” : Select a different connected cell phone for outgoing calls.

“Voice Keypad” : Begin a dialog to enter special numbers like international numbers. The numbers can be entered in groups of digits with each group of digits being repeated back by the system. If the group of digits is not correct, the

command “Delete” will remove the last group of digits and allow them to be re-entered. Once the entire number has been entered, the command “Call” will start dialing the number.

Bluetooth Speech Recognition

Bluetooth Speech Recognition/Siri Eyes Free allows access to voice based text messages, calendar, and audio sources.” Press and hold  on the steering wheel controls for longer than one second to access.

44 Phone

Phone

Bluetooth (Overview)

The Bluetooth-capable system can interact with many mobile devices, allowing:

- Placement and receipt of calls in a hands-free mode.
- Sharing of the device'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 mobile device. 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 mobile device(s) to the vehicle. The system may not work with all mobile devices. See "Pairing" later in this section.

Vehicles with a Bluetooth system can use a Bluetooth-capable mobile device 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 the ignition is on or in ACC/ACCESSORY. The range of the Bluetooth system can be up to 9.1 m (30 ft). Not all mobile devices support all functions and not all mobile devices work with the Bluetooth system. See www.my.gmc.com for more information about compatible mobile devices.

Controls

Use the controls on the center stack and the steering wheel to operate the Bluetooth system.

Steering Wheel Controls

 : Press to answer incoming calls and start voice recognition on your connected Bluetooth mobile device.

 : Press to end a call, decline a call, or cancel an operation. Press to mute or unmute the infotainment system when not on a call.

Infotainment System Controls

For information about how to navigate the menu system using the infotainment controls, see *Overview* ➔ 2.

Audio System

When using the Bluetooth mobile device system, sound comes through the vehicle's front audio system speakers and overrides the audio system. The volume level while on a mobile device call can be adjusted by pressing the steering wheel controls or the volume control on the center stack. The adjusted volume level remains in memory for later calls. The volume cannot be lowered beyond a certain level.

Bluetooth (Pairing and Using the Phone)

Pairing

A Bluetooth-enabled mobile device must be paired to the Bluetooth system and then connected to the vehicle before it can be used. See the mobile device manufacturer's user guide for Bluetooth functions before pairing the device.

Pairing Information

- If no mobile device has been connected, the Phone main page on the infotainment display will show the Connect Phone option. Touch this option to connect. Another way to connect is to touch the Phones tab at the top right of the display and then touch Add Phone.
- A Bluetooth smartphone with music capability can be paired to the vehicle as a smartphone and a music player at the same time.
- Up to 10 devices 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.
- If multiple paired cell phones are within range of the system, the system connects to the paired cell phone that is set to First to Connect. If there is no cell phone set to First to Connect, it will link to the cell phone which was used last. To link to a different paired cell phone, see "Linking to a Different Phone" later in this section.

Pairing a Phone

1. Make sure Bluetooth has been enabled on the cell phone before the pairing process is started.
2. Touch Phone on the Home Page or the phone shortcut tray near the bottom of the display.
3. Touch Phones at the top of the infotainment display. There is also a Connect Phones option in the middle of the Phone screen which will shortcut to the Phone List menu.
4. Touch Add Phone.
5. Select the vehicle name shown on the infotainment display from your cell phone's Bluetooth Settings list.
6. Follow the instructions on the cell phone to confirm the six-digit code showing on the infotainment display and touch Pair. The code on the cell phone and infotainment display will need to be acknowledged for a successful pair.
7. 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. Once the cell phone is paired, it will show under Connected.

46 Phone

8. If the vehicle does not appear on your cell phone, there are a few ways to start the pairing process over.
 - Turn the cell phone off and then back on.
 - Go back to the beginning of the Phone menus on the infotainment display and restart the pairing process.
 - Reset the cell phone, but this step should be done as a last-effort.
9. If the cell phone prompts to accept connection or allow phone book download, touch Always Accept and Allow. The phone book may not be available if not accepted.
10. Repeat Steps 1–8 to pair additional cell phones.

First to Connect Paired Phones

If multiple paired cell phones are within the range of the system, the system connects to the paired cell phone that is set as First to

Connect. To enable a paired cell phone as the First to Connect phone:

1. Make sure the cell phone is turned on.
2. Touch Settings, then touch System.
3. Touch Phones to access all paired and all connected cell phones and mobile devices.
4. Touch the information icon to the right of the cell phone to open the cell phone's settings menu.
5. Touch the First to Connect option, to enable the setting for that device.

Cell phones and mobile devices can be added, removed, connected, and disconnected. A sub-menu will display whenever a request is made to add or manage cell phones and mobile devices.

Secondary Phone

A cell phone can be enabled as a Secondary Phone by touching the information icon to the right of the

paired cell phone name to open the phone settings menu. If a cell phone is enabled as a Secondary Phone, it can connect simultaneously alongside another Bluetooth mobile device. In doing so, the Secondary Phone will be labeled as Incoming Calls. This means the mobile device can only receive calls. The Address Book of a Secondary Phone will not be available and hands-free outgoing calls cannot be placed using this cell phone.

If needed, touch the Secondary Phone while in the Phones list to swap it into the Outgoing and Incoming role. This role makes it possible to place outgoing calls from the Contacts and Recents list.

Listing All Paired and Connected Phones

1. Touch Phone on the Home Page or the phone shortcut tray near the bottom of the display.
2. Touch Phones.

Disconnecting a Connected Phone

1. Touch Phone on the Home Page.
2. Touch Phones.
3. Touch the information icon next to the connected cell phone or mobile device to display the cell phone's or mobile device's information display.
4. Touch Disconnect.

Deleting a Paired Phone

1. Touch Phone on the Home Page or the phone shortcut tray near the bottom of the display.
2. Touch Phones.
3. Touch the information icon next to the connected cell phone to display the cell phone's or mobile device's information display.
4. Touch Forget Device.

Linking to a Different Phone

To link to a different cell phone, the new cell phone must be in the vehicle and paired to the Bluetooth system.

1. Touch Phone on the Home Page or the phone shortcut tray near the bottom of the display.
2. Touch Phones.
3. Touch the new cell phone to link to from the not connected phone list. See *Settings* ⇨ 51 for more information about setting the device as the First to Connect or as a Secondary Phone.

Switching to Handset or Handsfree Mode

To switch between handset or handsfree mode:

- While the active call is hands-free, touch the Handset display option to switch to the handset mode.

The mute icon will not be available nor functional while Handset mode is active.

- While the active call is on the handset, touch the Handset display icon to switch to the hands-free mode.

Making a Call Using Contacts and Recent Calls

Calls can be made through the Bluetooth system using personal cell phone contact information for all cell phones that support the Phone Book feature. Become familiar with the cell phone settings and operation. Verify the cell phone supports this feature.

The Contacts menu accesses the phone book stored in the cell phone.

The Recents menu accesses the recents call list from your cell phone.

To make a call using the Contacts menu:

1. Touch Phone on the Home Page.
2. Touch Contacts.

48 Phone

3. The Contacts list can be searched by using the first character. Touch A-Z on the infotainment display to scroll through the list of names. Touch the name to call.
4. Touch the desired contact number to call.

To make a call using the Recents menu:

1. Touch Phone on the Home Page.
2. Touch Recents.
3. Touch the name or number to call.

Making a Call Using the Keypad

To make a call by dialing the numbers:

1. Touch Phone on the Home Page.
2. Touch Keypad and enter a cell phone number.

3. Touch  on the infotainment display to start dialing the number.

Searching Contacts Using the Keypad

To search for contacts using the keypad:

1. Touch Phone on the Home Page.
2. Touch Keypad and enter partial cell phone numbers or contact names using the digits on the keypad to search.

Results will show on the right side of the display. Touch one to place a call.

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

There are two ways to accept a call:

- Press  on the steering wheel controls.

- Touch Answer on the infotainment display.

Declining a Call

There are two ways to decline a call:

- Press  on the steering wheel controls.
- Touch Ignore on the infotainment display.

Call Waiting

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

Accepting a Call

There are two ways to accept a call-waiting call:

- Press  on the steering wheel controls.
- Touch Switch on the infotainment display.

Declining a Call

There are two ways to decline a call-waiting call:

- Press  on the steering wheel controls.
- Touch Ignore on the infotainment display.

Switching Between Calls (Call Waiting Calls Only)

To switch between calls, touch Phone on the Home Page to display Call View. While in Call View, touch the call information of the call on hold to change calls.

Three-Way Calling

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

To start a three-way call while in a current call:

1. In the Call View, select Add Call to add another call.
2. Initiate the second call by selecting from Recents, Contacts, or Keypad.

3. When the second call is active, touch the merge icon to conference the three-way call together.

Ending a Call

- Press  on the steering wheel controls.
- Touch  next to a call to end only that call.

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. Use the Keypad to enter the number.

Apple CarPlay and Android Auto

If equipped, Android Auto and/or Apple CarPlay capability may be available through a compatible smartphone. If available, the Android Auto and Apple CarPlay icons will appear on the Home Page of the infotainment display.

To use Android Auto and/or Apple CarPlay:

1. Download the Android Auto app to your smartphone from the Google Play store. There is no app required for Apple CarPlay.
2. Connect your Android phone or Apple iPhone by using the compatible smartphone USB cable and plugging into a USB data port. For best performance, use the device's factory-provided USB cable. Aftermarket or third-party cables may not work.
3. When the phone is first connected to activate Apple CarPlay or Android Auto, the message "Device Projection Privacy Consent" will appear.
 - Touch Continue to launch Apple CarPlay or Android Auto.

50 Phone

- Touch Disable to remove Apple CarPlay and Android Auto capability from the vehicle Settings menu. Other functions may still work.

The Android Auto and Apple CarPlay icons on the Home Page will illuminate depending on the smartphone. Android Auto and/or Apple CarPlay may automatically launch upon USB connection. If not, touch the Android Auto or Apple Carplay icon on the Home Page to launch.

Press  on the center stack to return to the Home Page.

For further information on how to set up Android Auto and Apple CarPlay in the vehicle, see my.gmc.com or see "Customer Assistance" in the owner's manual.

Android Auto is provided by Google and is subject to Google's terms and privacy policy. Apple CarPlay is provided by Apple and is subject to Apple's terms and privacy policy. Data plan rates apply. For Android Auto support see <https://>

support.google.com/androidauto. For Apple CarPlay support see www.apple.com/ios/carplay/. Apple or Google may change or suspend availability at any time. Android Auto, Android, Google, Google Play, and other marks are trademarks of Google Inc.; Apple CarPlay is a trademark of Apple Inc.

Press  on the center stack to exit Android Auto or Apple CarPlay. To enter back into Android Auto or Apple CarPlay, press and hold  on the center stack.

Apple CarPlay and Android Auto can be disabled from the infotainment system. To do this, touch Home, Settings, and then touch the Apps tab along the top of the display. Use the On/Off toggled to turn off Apple CarPlay or Android Auto.

Settings

Certain settings can be managed in the Owner Center sites when an account is established, and may be modified if other users have accessed the vehicle or created accounts. This may result in changes to the security or functionality of the infotainment system. Some settings may also be transferred to a new vehicle, if equipped. For instructions, in the U.S. see my.gmc.com or in Canada see mygmc.ca or mongmc.ca.

Refer to the User Terms and Privacy Statement for important details. To view, touch the Settings icon on the Home Page of the infotainment display.

The settings menu may be organized into four categories. Select the desired category by touching System, Apps, Vehicle, or Personal.

To access the personalization menus:

1. Touch Settings on the Home Page on the infotainment display.
2. Touch the desired category to display a list of available options.
3. Touch to select the desired feature setting.
4. Touch the options on the infotainment display to disable or enable a feature.
5. Touch **X** to take you to the top level of the Settings menu.

System

The menu may contain the following:

Time / Date

Use the following features to set the clock:

- Automatic Time and Date: Touch Off or On to enable or disable the time automatic time set.

When this feature is on, the time and date cannot be manually set.

- Set Time: Touch to manually set the time using the controls on the infotainment display.
- Set Date: Touch to manually set the date using the controls on the infotainment display.
- Automatic Time Zone: Touch Off or On to disable or enable to automatically update the time zone based on vehicle location. When this feature is on, the time zone cannot be manually set.
- Select Time Zone: Touch to manually set the time zone. Touch a time zone from the list.
- Use 24-hour Format: Touch to specify the clock format shown. Touch Off or On to disable or enable.

52 Settings

Language

This will set the display language used on the infotainment display. It may also use the selected language for voice recognition and audio feedback. Touch Language and touch the appropriate language.

Phones

Touch to connect to a different cell phone or mobile device source, disconnect a cell phone or media device, or delete a cell phone or media device.

Wi-Fi Networks

This will show connected and available Wi-Fi networks.

If a 4G LTE data package is not active on the vehicle, the infotainment system can be connected to an external protected Wi-Fi network, such as a mobile device or home hotspot, to utilize connected services.

Wi-Fi Hotspot

Touch and the following may display:

- **Wi-Fi Services:** This allows devices to use the vehicle hotspot.

Touch the controls on the infotainment display to disable or enable.

- **Wi-Fi Name:** Touch to change the vehicle Wi-Fi name.
- **Wi-Fi Password:** Touch to change the vehicle Wi-Fi password.
- **Connected Devices:** Touch to show connected devices.
- **Share Hotspot Data:** Touch Enable to allow devices to use the vehicle hotspot and its data or Touch Disable to allow devices to only use the vehicle hotspot.

Privacy

Touch and the following may display:

- **Data Services:** This setting determines if data sharing can be used by features including Wi-Fi, OnStar Hotspot, and applications. Touch Off to disable data services. Emergency services and phone calls, such as calls with OnStar advisors or others, will not be affected when Off is selected.
- **Voice Recognition Sharing:** This setting determines if voice commands can be shared with a cloud-based voice recognition system. Touch Off to prevent the sharing and possible recording of your voice commands with this system. This may limit the system's ability to understand your voice commands and may disable some features.

Display

Touch and the following may display:

- **Mode:** This adjusts the appearance of the navigation map view and any downloaded apps optimized for day or night time conditions. Set to Auto for the display to automatically adjust based on bright/dark conditions.
Touch Auto, Day, or Night to adjust the display.
- **Calibrate Touchscreen:** Touch to calibrate the infotainment display and follow the prompts.
- **Turn Display Off:** Touch to turn the display off. Touch anywhere on the infotainment display or press any control on the radio center stack again to turn the display on.

Sounds

Touch and the following may display:

- **Maximum Startup Volume:** This feature adjusts the maximum volume of the infotainment system when you start your vehicle. To set the maximum startup volume, touch the controls on the infotainment display to increase or decrease.
- **Audio Cues:** This feature determines if sounds play when the infotainment system starts up and shuts down. This feature can be turned off or on.
- **Set Audio Cue Volume:** This setting controls the volume of Audio Cues played on startup and shut down. Touch the controls on the infotainment display to increase or decrease.
- **Audible Touch Feedback:** This setting determines if a sound plays when touching the infotainment display or radio controls. This feature can be turned off or on.

Voice

Touch and the following may display:

- **Confirm More/Less:** This setting specifies how often the Voice Recognition system confirms commands. Touch Confirm More to have the system check with you more often before acting on your commands.
- **Prompt Length:** This setting specifies the amount of detail the Voice Recognition system provides when giving you feedback. Touch Auto to have the system automatically adjust to your speech habits. Touch Informative, Short or Auto.
- **Audio Feedback Speed:** Touch Slow, Medium, or Fast to adjust how quickly the voice recognition system speaks.
- **Friendly Prompts:** This setting adjusts the formality of voice prompts. Touch Off for shorter prompts. Touch On to hear

54 Settings

prompts with more personality. Touch Auto to have the prompt match your command style.

- Tutorial Mode: Touch Off or On to provide tutorial feedback on the display.

Favorites

Touch and the following may display:

- Manage Favorites: Touch to display a list of Audio, Mobile Devices, and Navigation favorites.

Favorites can be moved, renamed, or deleted.

To move, touch and hold on the favorite, and then drag up or down to rearrange the position.

- Set Number of Audio Favorites: Touch to select how many favorites pages can be viewed from the audio application. The auto setting will automatically adjust this number based on the number of favorites you have saved. Touch Auto, 5, 10, 15, 20, 25, 30, 35, or 40.

Updates

If equipped, the infotainment system can download and install select software updates over a wireless connection. The system will prompt for certain updates to be downloaded and installed. There is also an option to check for updates manually.

To manually check for updates, touch Settings on the Home Page, followed by Software Information, and then System Update. Follow the on-screen prompts. The steps to check for, download, and install updates may vary by vehicle.

Downloading Over-the-Air vehicle software updates requires internet connectivity, which can be accessed through the vehicle's built-in OnStar 4G LTE connection, if equipped and active. If required, data plans are provided by a third party. Optionally, a secure Wi-Fi hotspot such as a compatible mobile device hotspot, home hotspot or public hotspot can be used. Applicable data rates may apply.

To connect the infotainment system to a secured mobile device hotspot, home hotspot, or a public hotspot, touch Settings on the Home Page, select the System tab, followed by Wi-Fi Networks. Select the appropriate Wi-Fi network, and follow the on-screen prompts. Download speeds may vary.

On most compatible mobile devices, activation of the Wi-Fi hotspot is in the Settings menu under Mobile Network Sharing, Personal Hotspot, Mobile Hotspot or similar.

Availability of Over-the-Air software updates varies by vehicle and country. For more information on this feature, see my.gmc.com/learn.

Preferences

Touch the controls on the infotainment display to disable or enable the download of new updates in the background.

About

Touch to view the infotainment system software information.

Running Applications

Touch to see a complete list of applications that are currently running on the infotainment system.

Return to Factory Settings

Touch and the following may display:

- **Reset Vehicle Settings:** Resets all vehicle settings for the current user.
Touch Reset or Cancel.
- **Erase Settings and Personal Data:** Erases app data settings, user profiles, and personal data including navigation and mobile device data.
Touch Erase or Cancel.
- **Clear Default Applications:** Resets preferred applications that have been set to open when selecting a function. No application data will be lost.
Touch Clear or Cancel.

Apps

The menu may contain the following:

Android Auto

This feature allows you to interact directly with your mobile device on the infotainment display. See *Apple CarPlay and Android Auto* ⇨ 49

Touch the controls on the infotainment display to disable or enable.

Apple CarPlay

This feature allows you to interact directly with your mobile device on the infotainment display. See *Apple CarPlay and Android Auto* ⇨ 49

Touch the controls on the infotainment display to disable or enable.

Audio

Depending on the current audio source, different options will be available.

Touch and the following may display:

- **Tone Settings:** Touch to adjust Equalizer, Fade/Balance, or Sound Mode. See "Infotainment System Sound Menu" in *AM-FM Radio* ⇨ 10
- **Auto Volume:** This feature adjusts the volume based on the vehicle speed.
Touch Off, Low, Medium-Low, Medium, Medium-High, or High.
- **Manage Favorites:** Touch to display a list of Audio, Mobile Devices, and Navigation favorites.
Favorites can be moved, renamed, or deleted.
To move, touch and hold on the favorite, and then drag up or down to rearrange the position.

56 Settings

- **Set Number of Audio Favorites:** Touch to select how many favorites pages can be viewed from the audio application. The auto setting will automatically adjust this number based on the number of favorites you have saved. Touch Auto, 5, 10, 15, 20, 25, 30, 35, or 40.
- **RDS:** This allows RDS to be turned on or off.
Touch the controls on the infotainment display to disable or enable.
- **HD Radio:** This allows HD Radio reception to be turned on or off.
Touch the controls on the infotainment display to disable or enable.
- **Explicit Content Filter:** This setting prevents access to explicit content Sirius XM channels.
Touch Off or On.
- **Manage Phones:** Select to connect to a different phone source, disconnect a phone, or delete a phone.

- **Reset Music Index:** This allows the music index to be reset if you are having difficulty accessing all of the media content on your device.

Touch Yes or No.

Climate

Touch and the following may display:

- **Auto Fan Speed:** This setting specifies the amount of airflow when the climate control fan setting is Auto Fan.
Touch Low, Medium, or High.
- **Air Quality Sensor:** This setting switches the system into Recirculation Mode based on the quality of the outside air.
Touch Off, Low Sensitivity, or High Sensitivity.
- **Auto Cooled Seats:** This setting automatically turns on and regulates the cooled seats when the cabin temperature is warm.
Touch the controls on the infotainment display to disable or enable.

- **Auto Heated Seats:** This setting automatically turns on and regulates the heated seats when the cabin temperature is cool. The auto heated seats can be turned off by using the heated seat controls on the center stack.

Touch the controls on the infotainment display to disable or enable.

- **Auto Defog:** This setting automatically turns the front defogger on when the vehicle engine is started.

Touch the controls on the infotainment display to disable or enable.

- **Auto Rear Defog:** This setting automatically turns the rear defogger on when the vehicle engine is started.

Touch the controls on the infotainment display to disable or enable.

Nav

Touch and the following may display:

- Routing Options
- Map Configuration
- Set Up My Places
- Navigation Voice Control
- Map Colors
- Alert Preferences
- History
- About

See *Using the Navigation System* ⇨ 21.

Phone

Touch and the following may display:

- My Number: Displays the cell phone number of the Bluetooth connected device.
- Active Call View: Shows active call display when answering a call.

Touch the controls on the infotainment display to disable or enable.

- Sort Contacts: Touch to sort by first or last name.
- Re-sync Device Contacts:
This allows the device contacts to re-sync if you are having difficulty accessing all of the contacts on your cell phone.
- Delete All Vehicle Contacts: Touch to delete all vehicle stored contacts.
- OnStar Phone TTY Mode: This enables OnStar cell phone TTY mode.
Touch Disable or Enable.

Shop

Touch and the following may display:

- Update Apps Automatically: This allows downloaded applications to be updated automatically.
Touch the controls on the infotainment display to disable or enable.

- About Shop: Touch to view the versions of the shop software.

See *Using the System* ⇨ 7.

Vehicle

This menu allows adjustment of different vehicle features. See “Vehicle Personalization” in the owner’s manual.

Personal

This menu allows adjustment of different user profile settings. See “Users” in *Using the System* ⇨ 7 for information on setting up user profiles.

The menu may contain the following:

Name

Touch to edit your user name that will be displayed in the vehicle.

Vehicle Account Information

Touch to view the vehicle account information and to change account password.

58 Settings

An “unverified user account” pop-up will display until the account information verification process has been completed on the internet. Check your registered email account for an activation email to complete the verification process.

Profile Picture

Touch to choose or change your profile picture.

Profile Identifiers

Touch to have the vehicle recognize the identifier you choose.

Touch Vehicle Key 1 and/or Vehicle Key 2.

If the Remote Keyless Entry (RKE) transmitter is lost or stolen, see your dealership.

Security

Touch to have your profile secured with a PIN.

Touch No or Yes.

Vehicle Name

Touch to edit your vehicle name.

Vehicle Account

Touch to view the vehicle account information and to change account password.

Delete Profile

Touch to remove the profile from the vehicle.

Touch Remove or Cancel.

Teen Driver

If equipped, this allows multiple keys to be registered for beginner drivers to encourage safe driving habits. When the vehicle is started with a Teen Driver key, it will automatically activate certain safety systems, allow setting of some features, and limit the use of others. The Report Card will record vehicle data about driving behavior that can be viewed later. When the vehicle is started with a registered key, the Driver Information Center (DIC) displays a message that Teen Driver is active.

To access:

1. Touch Settings on the Home Page, then touch Vehicle, and then Teen Driver.
2. Create a Personal Identification Number (PIN) by choosing a four-digit PIN. Re-enter the PIN to confirm. To change the PIN, touch Change PIN.

The PIN is required to:

- Register or unregister keys.
- Change Teen Driver settings.
- Change or clear the Teen Driver PIN.
- Access or delete Report Card data.

Register keys to activate Teen Driver and assign restrictions to the key:

Any vehicle key can be registered, up to a maximum of eight keys. Label the key to tell it apart from the other keys.

1. Start the engine.

2. For automatic transmissions, the vehicle must be in P (Park). For manual transmissions, the vehicle must be stopped with the parking brake set.
3. From the Settings menu, touch Vehicle and then Teen Driver.
4. Enter the PIN.
5. Place the Remote Keyless Entry (RKE) transmitter key you wish to register in the transmitter pocket. The key does not need to be the one that started the vehicle. See "Remote Keyless Entry (RKE) System Operation" in the owner's manual for transmitter pocket location.
6. From the Teen Driver Menu, touch Setup Keys.
 - If the transmitter key has not previously been registered, the option to add the key displays. Touch Setup and a confirmation message displays. Teen Driver restrictions will be

applied whenever this key is used to operate the vehicle.

- If the transmitter key has already been registered, the option to remove the key displays. If Remove is touched, the transmitter key is no longer registered. A confirmation message displays, and Teen Driver restrictions will not be applied if this transmitter key is used to operate the vehicle.

In vehicles with a pushbutton start system, if a Teen Driver and a non-Teen Driver key are both present at start up, the vehicle will recognize the non-Teen Driver key to start the vehicle. The Teen Driver settings will not be active.

Manage Settings

Use the PIN to change the following settings:

Audio Volume Limit : Allows the audio volume limit to be turned on or off. Touch Set Audio Volume Limit to choose the maximum allowable audio volume level.

Set Audio Volume Limit : Allows a maximum radio volume to be set. Use the arrows to choose the maximum allowable level for the audio volume.

Teen Driver Speed Limiter (If Equipped) : Limits the maximum speed of the vehicle to 136 km/h (85 mph). When the speed limiter is turned on and the vehicle is started with a Teen Driver key, the DIC displays a message that the top speed is limited.

Teen Driver Speed Warning : Allows the speed warning to be turned on or off. Touch Set Teen Driver Speed Warning to set the warning speed.

60 Settings

Set Teen Driver Speed Warning :

This setting displays a warning in the DIC when exceeding a selectable speed. Choose the desired speed warning level from 64 km/h (40 mph) to 121 km/h (75 mph). The speed warning does not limit the speed of the vehicle.

When Teen Driver is Active:

- The radio will mute when the driver safety belt is not fastened, and in some vehicles, when the front passenger safety belt is not fastened. The audio from any device paired to the vehicle will also be muted.
- Certain devices placed on the front passenger seat could cause the passenger sensing system to falsely sense an unbuckled front passenger and mute the radio. See "Passenger Sensing System" in the owner's manual.
- Some safety systems, such as Forward Automatic Braking, if equipped and supported, cannot be turned off.

- The gap setting for the Forward Collision Alert and Adaptive Cruise Control, if equipped, cannot be changed.

Report Card

The vehicle owner must secure the driver's consent to record certain vehicle data when the vehicle is driven with a registered Teen Driver key. There is one Report Card per vehicle. Data is only recorded when a registered teen driver key is used to operate the vehicle.

The Report Card data is collected from the time Teen Driver is activated or the last time the Report Card was reset. The following items may be recorded:

- Distance Driven – the total distance driven.
- Maximum Speed – the maximum vehicle speed detected.
- Overspeed Warning – the number of times the speed warning setting was exceeded.

- Wide Open Throttle – the number of times the accelerator pedal was pressed nearly all the way down.
- Forward Collision Alert – the number of times the driver was notified when approaching a vehicle ahead too quickly and at potential risk for a crash.
- Forward Collision Avoidance Braking – also referred to as Forward Automatic Braking, the number of times the vehicle detected that a forward collision was imminent and applied the brakes.
- Traction Control – the number of times the Traction Control System activated to reduce wheel spin or loss of traction.
- Stability Control – the number of events which required the use of electronic stability control.
- ABS Active – the number of Antilock Brake System activations.

- Tailgating Alerts – the number of times the driver was alerted for following a vehicle ahead too closely.

Report Card Data

Cumulative Data is saved for all trips until the Report Card is reset or until the maximum count is exceeded. If the maximum count is exceeded for a Report Card line item, that item will no longer be updated in the Report Card until it is reset. Each item will report a maximum of 1,000 counts. The distance driven will report a maximum of 64,374 km (40,000 mi).

To delete Report Card data, do one of the following:

- From the Report Card display, touch Reset.
- Touch Clear All Teen Keys and PIN from the Teen Driver menu. This will also unregister any Teen Driver keys and delete the PIN.

Forgotten PIN

See your dealer to reset the PIN.

62 Trademarks and License Agreements

Trademarks and License Agreements

FCC Information

See "Radio Frequency Statement" in the owner's manual.



"Made for iPod," and "Made for iPhone," mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and

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



Fees and Taxes: Subscription fee, taxes, one time activation fee, and other fees may apply. Subscription fee is consumer only. All fees and programming subject to change. Subscriptions subject to Customer Agreement available at www.siriusxm.com. SiriusXM service only available in the 48 contiguous United States and Canada.

In Canada: Some deterioration of service may occur in extreme northern latitudes. This is beyond the control of SiriusXM Satellite Radio.

Explicit Language Notice: Channels with frequent explicit language are indicated with an "XL" preceding the

channel name. Channel blocking is available for SiriusXM Satellite Radio receivers by notifying SiriusXM:

- USA Customers — See www.siriusxm.com or call 1-888-601-6296.
- Canada Customers — See www.siriusxm.ca or call 1-877-438-9677.

It is prohibited to copy, decompile, disassemble, reverse engineer, hack, manipulate, or otherwise make available any technology or software incorporated in receivers compatible with the SiriusXM Satellite Radio System or that support the SiriusXM website, the Online Service or any of its content. Furthermore, the AMBER voice compression software included in this product is protected by intellectual property rights including patent rights, copyrights, and trade secrets of Digital Voice Systems, Inc.

General Requirements:

1. A License Agreement from SiriusXM is required for any product that incorporates SiriusXM Technology and/or for use of any of the SiriusXM marks to be manufactured, distributed, or marketed in the SiriusXM Service Area.
2. For products to be distributed, marketed, and/or sold in Canada, a separate agreement is required with Canadian Satellite Radio Inc. (operating as SiriusXM Canada).



TouchSense Technology and
TouchSense System 1000 Series
Licensed from Immersion
Corporation. TouchSense System
1000 protected under one or more
of the U.S. Patents at the following

address [www.immersion.com/
patent-marking.html](http://www.immersion.com/patent-marking.html) and other
patents pending.

Bose

Bose AudioPilot and Bose
Centerpoint surround are registered
trademarks of Bose Corporation in
the U.S. and other countries.

HD Radio Technology



HD Radio Technology manufactured
under license from iBiquity Digital
Corporation. U.S. and Foreign
patents. HD Radio and the HD, HD
Radio, and "Arc" logos are
proprietary trademarks of iBiquity
Digital Corp.

Java

Java is a registered trademark of
Oracle and/or its affiliates.

RMVB



Portions of this software are
included under license from
RealNetworks, Inc. Copyright ©
1995-2011, RealNetworks, Inc. All
rights reserved.

Bluetooth

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.

Schedule I: Gracenote EULA



64 Trademarks and License Agreements

Music recognition technology and related data are provided by Gracenote. Gracenote is the industry standard in music recognition technology and related content delivery. For more information visit www.gracenote.com.

Music-related data from Gracenote, Inc., copyright © 2000 to present Gracenote. Gracenote Software, copyright © 2000 to present Gracenote. One or more patents owned by Gracenote may apply to this product and service. See the Gracenote website for a non-exhaustive list of applicable Gracenote patents. Gracenote, CDDb, MusicID, MediaVOCS, the Gracenote logo and logotype, and the "Powered by Gracenote" logo are either registered trademarks or trademarks of Gracenote in the United States and/or other countries.

Gracenote Terms of Use

This application or device contains software from Gracenote, Inc. of Emeryville, California ("Gracenote").

The software from Gracenote (the "Gracenote Software") enables this application to do disc or file identification and obtain music-related information, including name, artist, track, and title information ("Gracenote Data") from online servers or embedded databases (collectively, "Gracenote Servers") and to perform other functions. You may use Gracenote Data only by means of the intended End-User functions of this application or device.

This application or device may contain content belonging to Gracenote's providers. If so, all of the restrictions set forth herein with respect to Gracenote Data shall also apply to such content and such content providers shall be entitled to all of the benefits and protections set forth herein that are available to Gracenote.

You agree that you will use Gracenote Data, the Gracenote Software, and Gracenote Servers for your own personal non-commercial use only. You agree not to assign, copy, transfer or

transmit the Gracenote Software or any Gracenote Data to any third party. YOU AGREE NOT TO USE OR EXPLOIT GRACENOTE DATA, THE GRACENOTE SOFTWARE, OR GRACENOTE SERVERS, EXCEPT AS EXPRESSLY PERMITTED HEREIN.

You agree that your non-exclusive license to use the Gracenote Data, the Gracenote Software, and Gracenote Servers will terminate if you violate these restrictions. If your license terminates, you agree to cease any and all use of the Gracenote Data, the Gracenote Software, and Gracenote Servers. Gracenote reserves all rights in Gracenote Data, the Gracenote Software, and the Gracenote Servers, including all ownership rights. Under no circumstances will Gracenote become liable for any payment to you for any information that you provide. You agree that Gracenote may enforce its rights under this Agreement against you directly in its own name.

The Gracenote service uses a unique identifier to track queries for statistical purposes. The purpose of a randomly assigned numeric identifier is to allow the Gracenote service to count queries without knowing anything about who you are. For more information, see the web page for the Gracenote Privacy Policy for the Gracenote service.

The Gracenote Software and each item of Gracenote Data are licensed to you "AS IS." Gracenote makes no representations or warranties, express or implied, regarding the accuracy of any Gracenote Data. Gracenote reserves the right to delete data from the Gracenote Servers or to change data categories for any cause that Gracenote deems sufficient. No warranty is made that the Gracenote Software or Gracenote Servers are error-free or that functioning of Gracenote Software or Gracenote Servers will be uninterrupted. Gracenote is not obligated to provide you with new enhanced or additional data types or categories

that Gracenote may provide in the future and is free to discontinue its services at any time.

GRACENOTE DISCLAIMS ALL WARRANTIES EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, AND NON-INFRINGEMENT. GRACENOTE DOES NOT WARRANT THE RESULTS THAT WILL BE OBTAINED BY YOUR USE OF THE GRACENOTE SOFTWARE OR ANY GRACENOTE SERVER. IN NO CASE WILL GRACENOTE BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES OR FOR ANY LOST PROFITS OR LOST REVENUES.

© 2014. Gracenote, Inc. All Rights Reserved.

MPEG4-AVC (H.264)

THIS PRODUCT IS LICENSED UNDER THE AVC PATENT PORTFOLIO LICENSE FOR THE

PERSONAL AND NON-COMMERCIAL USE OF A CONSUMER TO (i) ENCODE VIDEO IN COMPLIANCE WITH THE AVC STANDARD ("AVC VIDEO") AND/OR (ii) DECODE AVC VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NON-COMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED TO PROVIDE AVC VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION MAY BE OBTAINED FROM MPEG LA, LLC. SEE [HTTP://WWW.MPEGLA.COM](http://WWW.MPEGLA.COM).

VC-1

THIS PRODUCT IS LICENSED UNDER THE VC-1 PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NON-COMMERCIAL USE OF A CONSUMER TO (i) ENCODE VIDEO IN COMPLIANCE WITH THE VC-1 STANDARD ("VC-1 VIDEO") AND/OR (ii) DECODE VC-1 VIDEO THAT WAS

66 Trademarks and License Agreements

ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NON-COMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED TO PROVIDE VC-1 VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION MAY BE OBTAINED FROM MPEG LA, LLC. SEE [HTTP://WWW.MPEGLA.COM](http://WWW.MPEGLA.COM).

MPEG4—Visual

USE OF THIS PRODUCT IN ANY MANNER THAT COMPLIES WITH THE MPEG-4 VISUAL STANDARD IS PROHIBITED, EXCEPT FOR USE BY A CONSUMER ENGAGING IN PERSONAL AND NON-COMMERCIAL ACTIVITIES.

MP3

MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

WMV/WMA

This product includes technology owned by Microsoft Corporation and under a license from Microsoft

Licensing, GP. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft Corporation and/or Microsoft Licensing, GP as applicable.

Map End User License Agreement

END USER TERMS

The Map Data SD card (“Data”) is provided for your personal, internal use only and not for resale. It is protected by copyright, and is subject to the following terms (this “End User License Agreement”) and conditions which are agreed to by you, on the one hand, and HERE North America, LLC (“HERE”) and its licensors (including their licensors and suppliers) on the other hand.

The Data for areas of Canada includes information taken with permission from Canadian authorities, including: © Her Majesty the Queen in Right of Canada,

© Queen's Printer for Ontario,
© Canada Post Corporation,
GeoBase®.

HERE holds a nonexclusive license from the United States Postal Service® to publish and sell ZIP+4® information.

© United States Postal Service 2013. Prices are not established, controlled, or approved by the United States Postal Service. The following trademarks and registrations are owned by the USPS: United States Postal Service, USPS, and ZIP+4.

TERMS AND CONDITIONS

Personal Use Only: You agree to use this Data for the solely personal, noncommercial purposes for which you were licensed, and not for service bureau, timesharing or other similar purposes. Except as otherwise set forth herein, you agree not to otherwise reproduce, copy, modify, decompile, disassemble or reverse engineer any portion of this Data, and may not transfer or distribute it in any form, for any purpose, except to the

extent permitted by mandatory laws. You may transfer the Data and all accompanying materials on a permanent basis if you retain no copies and the recipient agrees to the terms of this End User License Agreement. Multi-disc sets may only be transferred or sold as a complete set as provided to you and not as a subset thereof.

Restrictions

Except where you have been specifically licensed to do so by HERE and without limiting the preceding paragraph, you may not (a) use this Data with any products, systems, or applications installed or otherwise connected to or in communication with vehicles capable of vehicle navigation, positioning, dispatch, real time route guidance, fleet management or similar applications; or (b) with, or in communication with, including without limitation, cellular phones, palmtop and handheld computers, pagers, and personal digital assistants or PDAs.

Warning

This Data may contain inaccurate or incomplete information due to the passage of time, changing circumstances, sources used, and the nature of collecting comprehensive geographic data, any of which may lead to incorrect results.

No Warranty

This Data is provided to you “as is,” and you agree to use it at your own risk. HERE and its licensors (and their licensors and suppliers) make no guarantees, representations, or warranties of any kind, express or implied, arising by law or otherwise, including but not limited to, content, quality, accuracy, completeness, effectiveness, reliability, fitness for a particular purpose, usefulness, use or results to be obtained from this Data, or that the Data or server will be uninterrupted or error free.

Disclaimer of Warranty

THE DATABASE IS PROVIDED ON AN “AS IS” AND “WITH ALL FAULTS BASIS” AND HARMAN

(AND THEIR LICENSORS AND SUPPLIERS) EXPRESSLY DISCLAIM ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, SATISFACTORY QUALITY, ACCURACY, TITLE AND FITNESS FOR A PARTICULAR PURPOSE. NO ORAL OR WRITTEN ADVICE OR INFORMATION PROVIDED BY HARMAN (OR ANY OF THEIR LICENSORS, AGENTS, EMPLOYEES, OR THIRD PARTY PROVIDERS) SHALL CREATE A WARRANTY, AND YOU ARE NOT ENTITLED TO RELY ON ANY SUCH ADVICE OR INFORMATION. THIS DISCLAIMER OF WARRANTIES IS AN ESSENTIAL CONDITION OF THIS AGREEMENT.

Disclaimer of Liability

HERE AND ITS LICENSORS (INCLUDING THEIR LICENSORS AND SUPPLIERS) SHALL NOT BE LIABLE TO YOU IN RESPECT OF

68 Trademarks and License Agreements

ANY CLAIM, DEMAND OR ACTION, IRRESPECTIVE OF THE NATURE OF THE CAUSE OF THE CLAIM, DEMAND OR ACTION ALLEGING ANY LOSS, INJURY OR DAMAGES, DIRECT OR INDIRECT, WHICH MAY RESULT FROM THE USE OR POSSESSION OF THIS DATA; OR FOR ANY LOSS OF PROFIT, REVENUE, CONTRACTS OR SAVINGS, OR ANY OTHER DIRECT, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF YOUR USE OF OR INABILITY TO USE THIS DATA, OR ANY DEFECT IN THIS DATA, OR THE BREACH OF THESE TERMS OR CONDITIONS, WHETHER IN AN ACTION IN CONTRACT OR TORT OR BASED ON A WARRANTY, EVEN IF HERE OR ITS LICENSORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some States, Territories, and Countries do not allow certain liability exclusions or damages limitations, so to that extent the above may not apply to you.

Export Control

You agree not to export from anywhere any part of the Data provided to you or any direct product thereof except in compliance with, and with all licenses and approvals required under, applicable export laws, rules and regulations. Entire Agreement: These terms and conditions constitute the entire agreement between HERE (and its licensors, including their licensors and suppliers) and you pertaining to the subject matter hereof, and supersedes in their entirety any and all written or oral agreements previously existing between us with respect to such subject matter.

Governing Law

The above terms and conditions shall be governed by the laws of the State of Illinois, without giving effect to (i) its conflict of laws provisions, or (ii) the United Nations Convention for Contracts for the International Sale of Goods, which is explicitly excluded. You agree to submit to the jurisdiction of the State of Illinois

for any and all disputes, claims, and actions arising from or in connection with the Data provided to you hereunder.

Government End Users

If the Data is being acquired by or on behalf of the United States government or any other entity seeking or applying rights similar to those customarily claimed by the United States government, this Data is a "commercial item" as that term is defined at 48 C.F.R. ("FAR") 2.101, is licensed in accordance with this End User License Agreement, and each copy of Data delivered or otherwise furnished shall be marked and embedded as appropriate with the following "Notice of Use," and be treated in accordance with such Notice:



Maps for Life

NOTICE OF USE

CONTRACTOR (MANUFACTURER/
SUPPLIER)

NAME:

HERE North America, LLC

CONTRACTOR (MANUFACTURER/
SUPPLIER)

ADDRESS:

**425 West Randolph Street,
Chicago, IL 60606.**

This Data is a commercial item as defined in FAR 2.101 and is subject to the End User License Agreement under which this Data was provided.

© 2014 HERE North America, LLC.
All rights reserved.

If the Contracting Officer, federal government agency, or any federal official refuses to use the legend provided herein, the Contracting Officer, federal government agency, or any federal official must notify HERE prior to seeking additional or alternative rights in the Data.

Unicode

Copyright © 1991-2010 Unicode, Inc. All rights reserved. Distributed under the Terms of Use in <http://www.unicode.org/copyright.html>.

Free Type Project

Portions of this software are copyright © 2010 The FreeType Project (<http://www.freetype.org>). All rights reserved.

Open Source SW

The open source code used in this device can be downloaded at the webpage shown in the information at the infotainment display. Further information concerning the OSS licenses is shown in the infotainment display.

QNX

Portions of this software are copyright © 2008-2011, QNX Software Systems. All rights reserved.

Part C – EULA

Copyright © 2011, Software Systems GmbH & Co. KG. All Rights Reserved.

The product you have purchased ("Product") contains Software (Runtime Configuration No. 505962; "Software") which is distributed by or on behalf of the Product manufacturer "Manufacturer") under license from Software Systems Co. ("QSSC"). You may only use the Software in the Product and in compliance with the license terms below.

Subject to the terms and conditions of this License, QSSC hereby grants you a limited, non-exclusive, non-transferable license to use the Software in the Product for the purpose intended by the Manufacturer. If permitted by the Manufacturer, or by applicable law,

70 Trademarks and License Agreements

you may make one backup copy of the Software as part of the Product software. QSSC and its licensors reserve all license+C31 rights not expressly granted herein, and retain all right, title and interest in and to all copies of the Software, including all intellectual property rights therein. Unless required by applicable law you may not reproduce, distribute or transfer, or de-compile, disassemble or otherwise attempt to unbundle, reverse engineer, modify or create derivative works of, the Software. You agree: (1) not to remove, cover or alter any proprietary notices, labels or marks in or on the Software, and to ensure that all copies bear any notice contained on the original; and (2) not to export the Product or the Software in contravention of applicable export control laws.

EXCEPT TO THE EXTENT OTHERWISE REQUIRED BY APPLICABLE LAW, QSSC AND ITS LICENSORS PROVIDE THE SOFTWARE ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR

CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ANY WARRANTIES OR OTHER PROVISIONS OFFERED BY THE MANUFACTURER OR ITS DISTRIBUTOR(S) THAT DIFFER FROM THIS LICENSE ARE OFFERED BY THE MANUFACTURER OR ITS DISTRIBUTOR(S) ALONE AND NOT BY QSSC, ITS AFFILIATES OR THEIR LICENSORS. YOU ASSUME ANY RISKS ASSOCIATED WITH YOUR USE OF THE SOFTWARE UNDER THIS LICENSE.

EXCEPT TO THE EXTENT OTHERWISE REQUIRED BY APPLICABLE LAW (SUCH AS IN THE CASE OF DELIBERATE OR GROSSLY NEGLIGENT ACTS), IN NO EVENT SHALL QSSC, ITS AFFILIATES OR THEIR LICENSORS BE LIABLE TO YOU

UNDER ANY LEGAL THEORY, WHETHER IN TORT (INCLUDING NEGLIGENCE), CONTRACT OR OTHERWISE, FOR DAMAGES, INCLUDING ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER ARISING AS A RESULT OF THIS LICENSE OR OUT OF THE USE OR INABILITY TO USE THE PRODUCT (INCLUDING BUT NOT LIMITED TO DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, PRODUCT FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES), EVEN IF QSSC, ITS AFFILIATES OR THEIR LICENSORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

WMA

This product is protected by certain intellectual property rights of Microsoft. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft.

For more information on the Software, including any open source software license terms (and available source code) as well as copyright attributions applicable to the Runtime Configuration indicated above, please contact the Manufacturer or contact QSSC at 175 Terence Matthews Crescent, Kanata, Ontario, Canada K2M 1W8 (licensing@qnx.com).

Linotype

Helvetica is a trademark of Linotype Corp. registered in the U.S. Patent and Trademark Office and may be registered in certain other jurisdictions in the name of Linotype Corp. or its licensee Linotype GmbH.

Usage in text form of each of the Licensed Trademarks is:

The trademark attribution requirements for the Licensed Trademarks may be viewed at <http://www.linotype.com/2061-19414/trademarks.html>.

END USER NOTICE

The marks of companies displayed by this product to indicate business locations are the marks of their respective owners. The use of such marks in this product does not imply any sponsorship, approval, or endorsement by such companies of this product.

72 Index

Index

A

Accepting or Declining a Call	48
Agreements	
Trademarks and License	62
AM	13
AM-FM Radio	10
AM, FM, and SXM Categories	11
Android Auto	7
Antenna	
Multi-band	13
Apple CarPlay	7
Apple CarPlay and	
Android Auto	49
Apps	55
Audio	7
Bluetooth	17
Audio System	44
Auxiliary Jack	17
Avoiding Untrusted Media	
Devices	14

B

Bluetooth	
Overview	44, 45
Bluetooth Audio	17
Bluetooth Speech Recognition	43

C

Call Waiting	48
Camera	8
Canceling Voice Recognition	38
Cleaning High Gloss Surfaces	
and Vehicle Information and	
Radio Displays	9
Climate	7
Controls	44
Steering Wheel	6
Coverage Explanations	36

D

Database Coverage	
Explanations	36
Destination	25
Driver	
Teen	58
Dual Tone Multi-Frequency	
(DTMF) Tones	49

E

Ending a Call	49
---------------	----

F

Favorites	30
Finding a Station	10
FM	12

G

- Global Positioning System (GPS) 34
- Guidance Problems with the Route 35

H

- Haptic Feedback 8
- HD Radio Technology 11
- Helpful Hints for Speaking Commands 38
- Hybrid Speech Recognition 37

I

- If the System Needs Service 35
- Infotainment Display Features 8
- Infotainment Gestures 8
- Infotainment System 3
- Infotainment System Sound Menu 10
- Introduction 2

J

- Jack Auxiliary 17

M

- Making a Call Using Contacts and Recent Calls 47
- Making a Call Using the Keypad 48
- Map Data Updates 35
- Map End User License Agreement 66
- Map Gestures and Map Scale ... 26
- Map Information 26
- Maps 23
- Media

- Avoiding Untrusted Devices 14
- Media Playback and Mute 17
- Mobile Device Usage 13
- Multi-band Antenna 13
- Mute 27

N

- Nav/OnStar Nav 7
- Navigation
- Destination 25
- Using the System 21
- Navigation Symbols 24

O

- OnStar 4G LTE 19
- OnStar Connected Navigation Subscription 33
- OnStar Services 8
- OnStar Smart Driver 20
- OnStar System 19, 33
- Over-the-Air Software Updates ... 9
- Over-the-Air Vehicle Map Updates 35
- Overview 2

P

- Pairing 45
- Personal 57
- Phone 7
- Apple CarPlay and Android Auto 49
- Bluetooth 44, 45
- Playing from a USB 14
- Playing the Radio 10
- Port
- USB 14
- Positioning
- Vehicle 34
- Problems with Route Guidance 35

74 Index

R

Radio	
HD Radio Technology	11
Radio Reception	12
Radios	
AM-FM Radio	10
Satellite	12
Rear Climate	8
Recents	31
Recognition	
Voice	37
Route Guidance View	27

S

Satellite Radio	12
Schedule I: Gracenote EULA	63
Searching Contacts Using the	
Keypad	48
Servicing System	35
Settings	51, 7
Shop	7
Shortcut Tray	8
Show POI Icons	31
SiriusXM Satellite Radio	
Service	13
Software Updates	9
Steering Wheel Controls	6
Storing and Recalling Media	
Favorites	16

Storing Radio Station

Favorites	11
Switching to Handset or	
Handsfree Mode	47
Symbols	
Navigation	24
System	51
Global Positioning	34
OnStar	33

T

Teen Driver	58
The OnStar App	19
Three-Way Calling	49
Trademarks and License	
Agreements	62
Traffic Information	28

U

Updates	
Map Data	35
Software	9
USB Port	14
Users	7
Using the Navigation System	21
Using the System	7
Using Voice Recognition	37
Using Voice Recognition for	
List Options	39

V

Vehicle	57
Vehicle Positioning	34
Voice Recognition	37
Voice Recognition for Audio	
My Media	41
Voice Recognition for	
Navigation	42
Voice Recognition for the	
Phone	43
Voice Recognition for the	
Radio	40

W

Waypoints	25
-----------	----

Z

Zoom Control	26
--------------	----

Operating Frequencies: 2400-2483.5 MHz
5725-5875 MHz

Radiated Power: Bluetooth: 9dBm,
Wi-Fi: 19 dBm/13.9dBm

This device complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. The device should be installed and operated with a minimum distance of 20cm between the radiator and your body. This device must not be collocated or operating in conjunction with any other antenna or transmitter.”

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

[54 FR 17714, Apr. 25, 1989, as amended at 68 FR 68545, Dec. 9, 2003]