

2008 Mid-Size Truck Navigation System

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

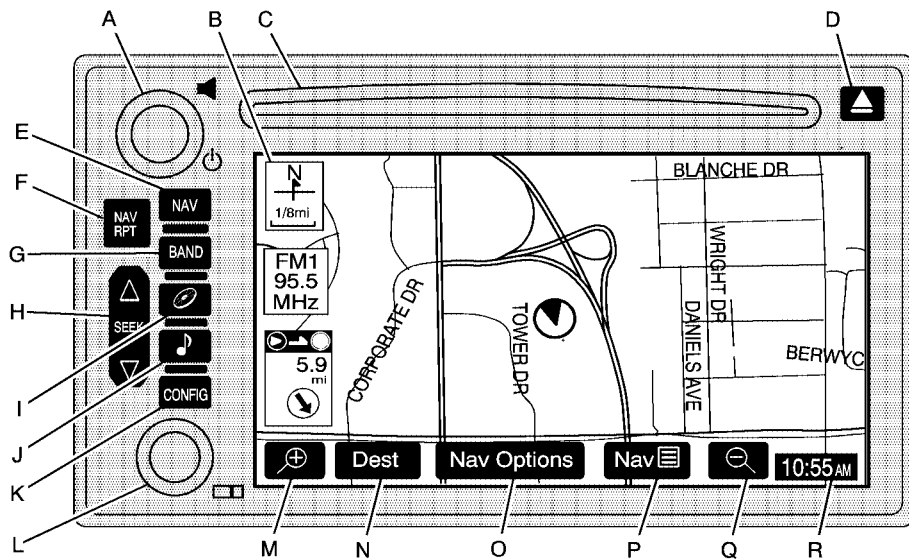
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Section 1 Overview

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Overview

Navigation System Overview



- A.  (Power/Volume) Knob. See “Hard Keys” under *Using the Navigation System on page 2-2*.
- B. Directional Indicator. See *Symbols on page 2-6*.
- C. DVD/CD Loading Slot. See *Maps on page 2-5* or *CD Player on page 3-9*.
- D.  (DVD/CD Eject) Key. See “Hard Keys” under *Using the Navigation System on page 2-2*.
- E. NAV (Navigation) Key. See “Hard Keys” under *Using the Navigation System on page 2-2*.
- F. NAV RPT (Navigation Repeat) Key. See “Hard Keys” under *Using the Navigation System on page 2-2*.
- G. BAND Key. See “Playing the Radio” under *Navigation Audio System on page 3-2*.
- H.  **SEEK**  Key. See “Finding a Station” under *Navigation Audio System on page 3-2*.
- I.  (CD) Key. See *CD Player on page 3-9*.
- J.  (Audio) Key. See *Navigation Audio System on page 3-2*.
- K. CONFIG (Configure) Key. See “Hard Keys” under *Using the Navigation System on page 2-2*.
- L.  (Tuning) Knob. See “Finding a Station” under *Navigation Audio System on page 3-2*.
- M.  (Zoom In) Screen Button. See “Touch Sensitive Screen Buttons” under *Using the Navigation System on page 2-2*.
- N. Dest (Destination) Screen Button. See “Touch Sensitive Screen Buttons” under *Using the Navigation System on page 2-2*.
- O. Nav (Navigation) Options Screen Button. See “Touch Sensitive Screen Buttons” under *Using the Navigation System on page 2-2*.
- P. Nav  (Navigation Menu) Screen Button. See “Touch Sensitive Screen Buttons” under *Using the Navigation System on page 2-2*.
- Q.  (Zoom Out) Screen Button. See “Touch Sensitive Screen Buttons” under *Using the Navigation System on page 2-2*.
- R. Clock. See “Clock” under *Configure Menu on page 2-31*.

Getting Started

Before you begin to operate the navigation system, read this manual thoroughly to become familiar with it and to understand how the system works.

Keeping your mind on the drive is important for safe driving. See “Defensive Driving” in the Index of your vehicle’s owner manual for more information. Get familiar with your vehicle’s navigation system so you can use it with less effort and take full advantage of its features. Your navigation system includes not only navigation, but also audio functions. While your vehicle is parked:

- Familiarize yourself with all of its controls: hard keys on the faceplate and touch-sensitive screen buttons.
- Familiarize yourself with its operation.
- Set up your audio by presetting your favorite stations, setting the tone, and adjusting the speakers. Then, when driving conditions permit, you can tune to your favorite stations using the presets and steering wheel controls (if equipped).
- Set up the navigation features that can only be done before you begin driving, such as entering an address or a preset destination.

Entering a destination or alphanumeric text requires many steps, so you can only perform these operations when the vehicle is in PARK (P). You will notice that touch-sensitive screen buttons leading to the alphanumeric keyboard are dimmed out while driving.

Other functions may also be locked out while driving and they too will appear grayed out on the screen — but all functions are available when parked. Some functions can be performed while driving, as long as you can do so without diverting too much of your attention from your driving.

CAUTION:

This system provides you with a far greater access to audio stations and song listings. Giving extended attention to entertainment tasks while driving can cause a crash and you or others can be injured or killed. Always keep your eyes on the road and your mind on the drive — avoid engaging in extended searching while driving.

CAUTION:

Looking at the moving map on the navigation screen frequently or for too long while driving can cause a crash and you or others can be injured or killed. Keep your eyes and mind on the road and avoid looking too long or too often at the moving map on the navigation screen. Use the voice guidance directions whenever possible.

The navigation system allows you to do the following:

- Plan a route with provided turn-by-turn route and map guidance with voice prompts.
- Select a destination using various methods and choices.

You should always be alert and obey traffic and roadway laws and instructions, regardless of the guidance from the navigation system. The navigation system uses street map information that does not include all traffic restrictions or the latest road changes, it may suggest using a road that is now closed for construction or a turn that is prohibited by signs at the intersection. The

system uses limited information, you must always evaluate whether following the system's directions is safe and legal for the current conditions.

CAUTION

Remember, if you are distracted while driving, you could cause a crash and you or others could be injured or killed.

Eng

Fr

Before using this system while driving, read the owner's manual and learn how the system operates.

Always concentrate on your driving first by keeping your eyes and mind on the road, and your hands on the wheel.

Next

Some functions of this system will not operate when the car is moving. See owner's manual for more information.

8:18

Every fifty times the vehicle is started and the navigation system is turned on, the CAUTION screen will appear. Touch the Next screen button for the map DVD information to load. You can also select to change the language, Eng (English) or Fr (French). See "Language" under *Configure Menu on page 2-31* for more information.

When getting started you may set the navigation system to your preference or delete information you may have entered using various options. To do so, reference the following topics.

Deleting Personal Information

This navigation system can record and store destinations. At times, such as when you are disposing of your vehicle, you may want to delete these destinations. refer to the following sections to delete the destination information that has been stored.

See “Delete” under “Edit Route” under *Navigation Menu on page 2-8* for deleting the current destination.

See “Memory Points”, “Preset Dest.” (Destination), “Register Home”, and “Del. Prev. Dest.” (Delete Previous Destination) under “Memory Points” under *Navigation Menu on page 2-8* for deleting stored destinations.

Storing Radio Station Presets

To set preset radio stations, do the following:

1. Press the power/volume knob to turn the system on.
2. Press the BAND hard key to access the band menu and select the desired band (AM, FM1, FM2, XM1, or XM2 (if equipped)).
3. Use the tuning knob or the SEEK hard key arrows to select a station.
4. Touch and hold one of the six screen buttons at the bottom of the screen until you hear a beep or see the station displayed on the selected preset button.

Setting the Clock

To set the time, do the following:

1. Press the power/volume knob to turn the system on.
2. Press the CONFIG hard key.
3. Touch the Clock screen button.
4. Touch the appropriate Time Zone screen button.
5. Touch the Daylight Savings screen button.

The time is now set. Touch the Manual Adjust screen button if you need to further adjust the time. The radio will use the GPS satellite to set the time. The vehicle needs to be in an open area to receive the signal. See *Global Positioning System (GPS) on page 2-33* for more information.

Entering an Address, Point of Interest, Home, and Preset Destinations

Before entering an Address, Point of Interest, Home, or Preset Destination, select the appropriate search area that contains the final destination. Your vehicle must be stopped to perform this operation.

Setting the Search Area

To set the search area, do the following:

1. Press the power/volume knob to turn the system on.
2. Insert the DVD map disc into the CD slot.
3. A notice may appear. Touch the NEXT screen button to proceed.
If the radio is already on with a map disc inserted, push the NAV hard key.
4. Touch the DEST screen button.
5. Touch the Change screen button.
6. Touch the appropriate Search Area numbered screen button that contains your final destination.

The system will return to the Destination menu.

Entering an Address

To set a destination by entering a street address, do the following:

1. Press the power/volume knob to turn the system on.
2. Insert the DVD map disc into the CD slot.
3. A notice may appear. Touch the NEXT screen button to proceed.
If the radio is already on with a map disc inserted, push the NAV hard key.

4. Touch the DEST screen button.
5. Verify that the selected Search Area is correct.
6. Touch the Address screen button.
7. Enter the street name using the alpha keypad on the screen.

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

8. Select the desired street name from the list by touching the screen button next to the correct street name.
9. Enter the address number using the numeric keypad on the screen. You may first have to select the correct range for the address number, then enter the desired address and touch the OK screen button.
10. Touch the Enter Destination screen button. The address entry is now complete.
11. Once you begin driving you will hear an audio prompt to "Proceed to the highlighted route." You are now in route guidance mode.

Entering a Point of Interest (POI)

To set a destination by entering a Point of Interest (POI), do the following:

1. Press the power/volume knob to turn the system on.
2. Insert the DVD map disc into the CD slot.
3. A notice may appear. Touch the NEXT screen button to proceed.
If the radio is already on with a map disc inserted, push the NAV hard key.
4. Touch the DEST screen button.
5. Verify that the selected Search Area is correct.
6. Touch the POI screen button.
7. Enter the specific title of the POI in the Name space (i.e. Washington Monument) using the alpha keypad on the screen.
 - If there are POIs with the same name, spell out the name and then touch the List screen button (McDonald's restaurant vs. McDonald corporate office).
 - Select the business desired.
 - The system will list the POIs in alphabetical order or, if there are multiple POIs with the same name, the system will list the POIs in order of distance from your location.
 - Touch the screen button next to the address of the POI desired.

8. Touch the Enter Destination screen button. The POI entry is now complete.
9. Once you begin driving you will hear an audio prompt to "Proceed to the highlighted route." You are now in route guidance mode.

Using the Category or City selections will aid the system in finding your POI by limiting the search options.

Setting Home Destination

1. Press the power/volume knob to turn the system on.
2. Insert the DVD map disc into the CD slot.
3. A notice may appear. Touch the NEXT screen button to proceed.
If the radio is already on with a map disc inserted, push the NAV hard key.
4. Touch the Nav  (navigation) menu screen button.
5. Touch the Memory Points screen button.
6. Touch the Register Home screen button.
7. Touch the Address screen button and then enter all address information.
8. Touch the Register Point screen button to store the home address as a memory point.

Setting Preset Destinations

1. Press the power/volume knob to turn the system on.
2. Insert the DVD map disc into the CD slot.
3. A notice may appear. Touch the NEXT screen button to proceed.

If the radio is already on with a map disc inserted, push the NAV hard key.

4. Touch the Nav  (navigation) menu screen button.
5. Touch the Memory Points screen button.
6. Touch the Register screen button.
7. Touch one of the five preset buttons.
8. Touch the Address screen button and then enter the address information.
9. Touch the Register Point screen button to store the memory point.

Using Your Home or Preset Destinations

These destinations are available for selection while driving.

1. Press the power/volume knob to turn the system on.
2. Insert the DVD map disc into the CD slot.
3. Touch the DEST screen button.

4. Touch the  (Home symbol) or one of the available Preset Destination symbols at the bottom of the Destination screen.
5. Once you begin driving, or if you are already driving, you will hear an audio prompt to "Proceed to the highlighted route." You are now in route guidance mode.

Canceling Guidance

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

1. From the map screen, touch the Nav Options screen button.
2. Touch the Cancel Route screen button.
3. Touch the Yes screen button to confirm cancellation.

Cleaning the Video Screen

When cleaning the video screen, use only a soft clean cotton cloth dampened with clean water.



 NOTES

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Section 2 Features and Controls

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Features and Controls

Using the Navigation System

This section includes the basic information to operate the navigation system.

The main navigation menu displays a number of options which offer information on a variety of topics. See *Navigation Menu on page 2-8* for more information.

Use the hard keys located on the navigation system along with the available touch-sensitive screen buttons on the navigation screen to operate the system.

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

Hard Keys

The following hard keys are located to the left of the navigation screen:

 **(Power/Volume Knob):** Press the power/volume knob to turn the audio and navigation system on and off. Turn the knob to increase or decrease the volume to the audio system.

NAV RPT (Navigation Repeat): Press the NAV RPT key to repeat the current voice guidance navigation prompt.

NAV (Navigation): If you are in a menu and are not on the map screen, press the NAV key to view the map showing your vehicle's current position.

If a route has not been planned, press this key to display the map screen and the following information:

- North or Heading Up symbol
- Time
- Map scale

If a route has been planned, press this key to display the map screen and the following information:

- Number of miles/kilometers between current vehicle position and the destination. See “Route Overview Menu” under *Destination on page 2-17* for more information.
- Estimated travel time to the destination. See “Route Overview Menu” under *Destination on page 2-17* for more information.
- Highlighted route or turn-by-turn instructions. See “Map Appearance” under *Navigation Menu on page 2-8* for more information.

You will find more information on each feature found on a map screen later in this manual.

BAND: Press the BAND key to access the BAND screen and to switch between AM, FM1, FM2, XM1, or XM2, if equipped. See “Finding a Station” under *Navigation Audio System on page 3-2*.

 **SEEK** : Press the SEEK up or down arrows to go to the next or previous radio station or tracks on a CD. See “Finding a Station” under *Navigation Audio System on page 3-2* or *CD Player on page 3-9*.

 **(CD):** Press the CD key to play a CD. The CD screen will display. See *CD Player on page 3-9*.

 **(Audio):** Press the audio key to access the Audio menu. See *Navigation Audio System on page 3-2*.

CONFIG (Configure): Press the CONFIG key to access the Configure menu. See *Configure Menu on page 2-31* for more information.

 **(Tuning) Knob:** Turn this knob to go to the next or previous frequency and stay there. See “Finding a Station” under *Navigation Audio System on page 3-2*.

 **(Eject):** Press the eject key located next to the DVD/CD slot to eject a map DVD or CD.

Alpha-Numeric Keypad

Letters of the alphabet, symbols, punctuation, and numbers will display on the navigation screen as an alpha or numeric keypad. The appropriate keypad will automatically display whenever the system needs information from you. The alpha keypad will display when the system needs input of a city or street name. The numeric keypad will display when the system needs input of a phone number or house address.

Touch a character on the screen to select it. You may also touch the 0 - 9 screen button at any time from the alpha keypad to access the numeric keypad.

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

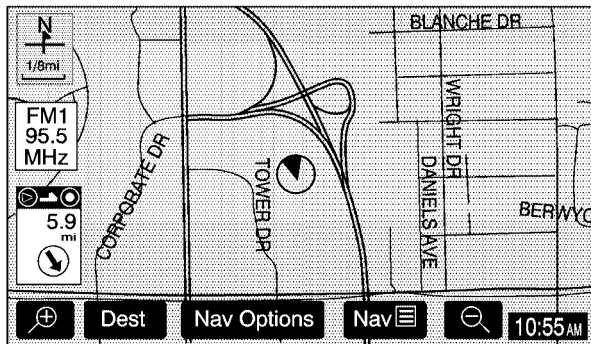
 **(Backspace):** Touch this screen button if an incorrect character has been selected.

To make name selections easier, the system will only allow you to select a character which can follow the last one entered. For example, if a Z is entered, a T will not be available to select. The system will highlight the available characters.

If a name is not available after input, it may need to be inputted differently, the map DVD database may not contain that information, or the correct search area has not been selected. See *Database Coverage Explanations* on page 2-36.

Touch-Sensitive Screen Buttons

Touch-sensitive buttons are located on the screen. After selecting a button on the screen, a beep will sound. This feature can be turned off. See *Configure Menu* on page 2-31 for more information. Screen buttons will be highlighted when available. There are some toggle screen buttons that will be light blue when active.



The following touch-sensitive screen buttons will appear frequently at the bottom of a map screen.

Dest (Destination): Touch this screen button to display the Destination menu. See *Destination on page 2-17* for more information.

Nav (Navigation) Options: Touch this screen button to display the Nav Options menu. See “Navigation Options” under *Destination on page 2-17* for more information.

Nav  (Navigation Menu): Touch this screen button to display the main navigation menu. See *Navigation Menu on page 2-8* for more information.

 (Zoom In): Touch this screen button to get a closer look at a smaller section of the route you are traveling.

 (Zoom Out): Touch this screen button to see a larger scale of the route you are traveling. You can also view your highlighted route.

Clock: Touch the clock screen button, when the radio is on, to display the date.

Audio Source: Touch the audio source screen button, while a map screen is displayed, to access the Audio screen.

Back: Touch this screen button, when available on a menu, to return to the previous screen.

Maps

This section includes basic information about the map database.

Map Coverage

The maps are stored on a DVD-ROM. The United States, Hawaii, and Canada are contained on one disc.

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

Installing the DVD Map Disc

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

1. Turn the ignition on.
2. Load the map DVD into the slot by inserting it partway. The system will pull it in.

Once the map DVD is inserted correctly, you will have the following two language choices:

- ENG (English)
- FR (French)

Select the language at this time. See “Language” under *Configure Menu on page 2-31* for more information. Once a language has been selected, touch the NEXT screen button to plan a route. The map will appear showing your vehicle’s current position.

Ejecting the DVD Map Disc

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

▲ (Eject): Press the eject key, located next to the DVD/CD slot, to eject a DVD map disc and a CD. The disc will eject.

Handling the DVD Map Disc

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

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

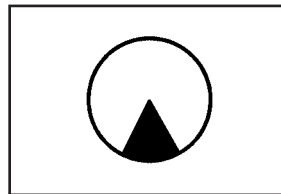
Map Adjustments and Scales

The system allows you to adjust the scale of view on the map. The map will scroll automatically based on the direction the vehicle is traveling.

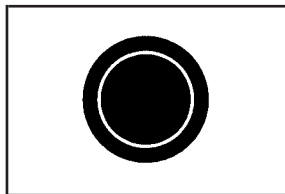
To view a larger or smaller scale of the map, touch zoom in or zoom out. The scale of a map can range from 1/32 of a mile (0.05 km) to 128 miles (206 km). See “Hard Keys” under *Using the Navigation System* on page 2-2 for more information.

Symbols

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



Your vehicle is shown as this symbol. It indicates the current position and vehicle orientation of your vehicle on the map.



This red bulls-eye symbol will appear on the map to show your final destination after a route has been planned.

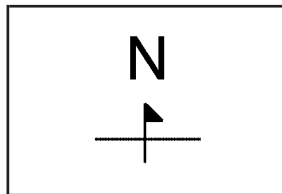
See *Destination on page 2-17* for information on planning a route.



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

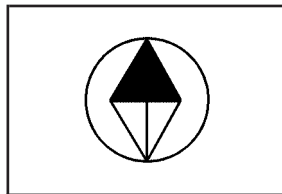
The waypoint symbol will be numbered from one through five depending on how many intermediate waypoints have been set.

See “Preset Destinations” under *Destination on page 2-17* for more information.



This symbol indicates that the map is shown with North up (North Up mode).

While in North Up mode, North will always be at the top of the map screen regardless of which direction the vehicle is traveling. Touch this screen button to switch between North Up and Heading Up modes. See “Map Appearance” under *Navigation Menu on page 2-8* for more information.



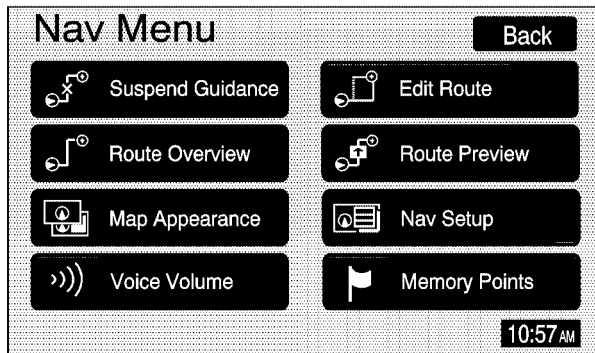
This symbol indicates that the map is shown with the vehicle travel direction up (Heading Up mode).

The shaded triangle indicates North. While in Heading Up mode, the direction your vehicle is traveling will always be at the top of the map screen. Touch this screen button to switch between Heading Up and North Up modes. See “Map Appearance” under *Navigation Menu on page 2-8* for more information.

Navigation Menu

Nav  (**Navigation Menu**): Touch the navigation menu screen button at the bottom of the map screen to access the main navigation menu.

The main navigation menu allows you to select from a list of options and to use the available touch screen buttons to make system adjustments and plan routes.



You will be able to select from the following items on the main navigation menu:

Suspend Guidance

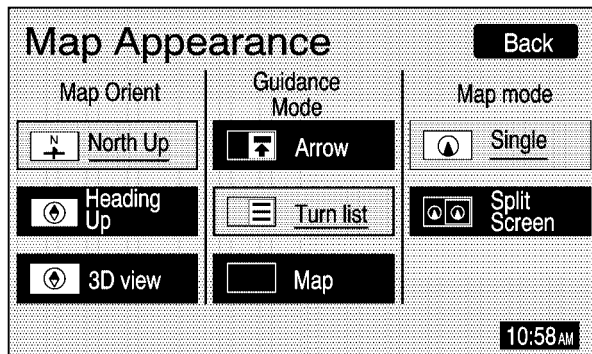
 (**Suspend Guidance**): Select this screen button from the Nav Menu to suspend guidance to all current and programmed destinations, but the current route will be retained in memory. You will no longer receive voice prompts for navigation. The map can still be viewed by pressing the NAV hard key. If you suspend guidance, you can touch the Resume Guidance screen button to resume the current route.

Route Overview

 (**Route Overview**): Select this screen button to display the map with the route highlighted. The total distance and estimated travel time will also display.

Map Appearance

 **(Map Appearance):** Select this screen button to adjust the appearance of a map based on your preferences.



This menu is divided into three sections: Map Orient (orientation), Guidance Mode, and Map Mode. Touch an option's screen button to select it. The following are brief explanations of the options available in each section:

 **(North Up):** This feature orients the map with North at the top of the map screen, regardless of which direction you are driving.

 **(Heading Up):** This feature orients the map with the direction you are driving at the top of the map screen, regardless of which direction is North.

 **(3D view):** This feature gives maps a 3-dimensional view, and will remain in the Heading Up position.

 **(Arrow):** This feature continually displays directional turn guidance for your next maneuver.

 **(Turn list):** This feature lists information on your next three maneuvers, including the distance to the turn, and street names.

 **(Map):** This feature will display your vehicle's current position, with the calculated route highlighted.

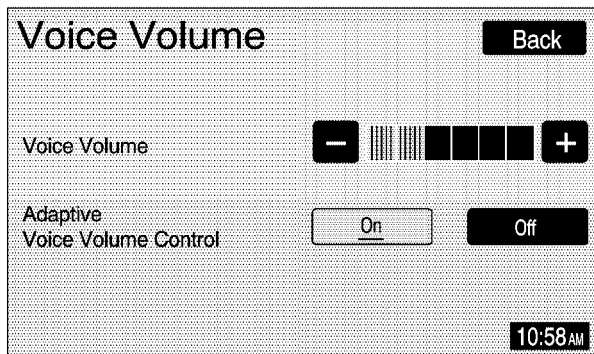
 **(Single):** This feature allows one map to be displayed.

 **(Split Screen):** This feature allows two maps to be displayed, which can be independently adjusted in both scale and map orientation.

For more information on the symbols that can appear on a map screen, see *Symbols* on page 2-6.

Voice Volume

»)) **(Voice Volume):** Select this screen button to adjust the volume of the voice guidance prompts that provide various messages as you approach points where you need to maneuver your vehicle, such as an intersection.



To adjust the volume of the voice prompts, do the following:

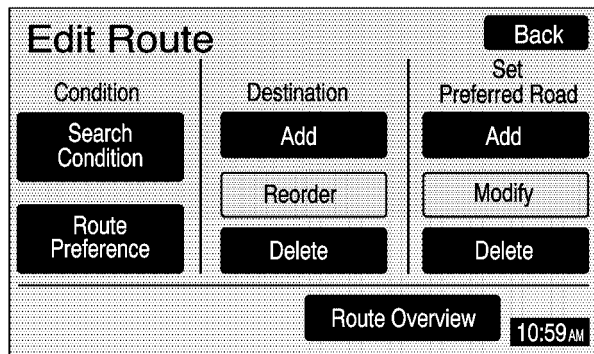
1. Touch the Voice Volume screen button.
2. Touch the plus (+) or minus (–) sign screen buttons to increase or decrease the volume. The voice prompt will come on with each adjustment to give you an idea of the volume at each level.
3. Once you have reached the desired volume level, touch the Back screen button to return to the previous screen.

Adaptive Voice Volume Control: The volume of voice prompts will increase automatically once the vehicle exceeds 50 mph (80 km/h). Touch the On screen button to activate this feature, or the Off screen button to turn this feature off.

If voice guidance is not needed, lower the volume as far as it will go, so the voice prompts are not heard.

Edit Route

📍 **(Edit Route):** Select this screen button to recalculate a route based on your preferences.



Search Condition: This screen allows you to select your route preference by choosing from Fastest, Shortest, or Alternative route. By selecting the Fastest route, you will be routed along main roads and highways, which does not necessarily mean it will be the shortest route.

Route Preference: This screen allows you to select your road preferences by setting which types of roads you want to use or avoid.

Freeway: This option allows the system to use major roads when calculating a route.

Toll Road: This option allows the system to use toll roads when calculating a route.

Ferry: This option allows the system to use ferries when calculating a route.

Restricted Road: This option allows the system to use time restricted roads when calculating a route.

Destination: This feature allows you to add, reorder, or delete destinations.

Add: See *Destination on page 2-17* for information on creating a destination.

Reorder: When waypoints have been added, select this screen button to change the order of the waypoints and the final destination on the route.

1. Touch the Reorder screen button next to the destination.
2. Touch the OK screen button when finished reordering.
3. Touch the Back screen button, then the Route Overview screen button. The map screen will display.
4. Touch the Route screen button and the system will recalculate the route.
5. Touch the Start screen button to start route guidance.

Delete: Press this button to delete the current destination.

Set Preferred Road: This feature allows you to add, modify, or delete road preference settings.

Add: Press this screen button to add a road. The map screen will display. Touch the map to scroll to the preferred road. Select the OK screen button. Press the Enter screen button to set the road as a road to be added to the current destination or the Next screen button to change the road type.

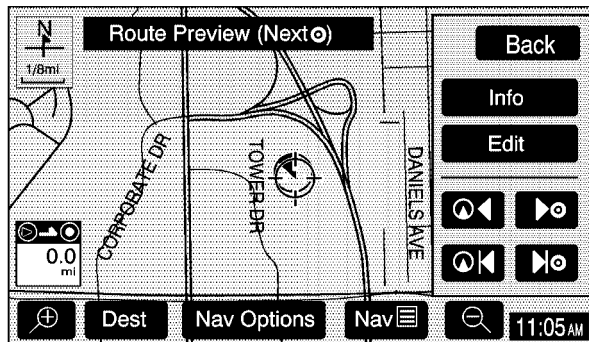
Modify: Press this screen button to change the preferred road. Follow the directions for the “Add” screen button.

Delete: Press this button to delete road preference settings.

Route Overview: Touch this screen button to access the Route Overview menu. See “Route Overview” under *Destination on page 2-17*.

Route Preview

(Route Preview): Select this screen button once route guidance has begun to display the map screen with the route highlighted.



The route is traced by the vehicle symbol as you travel. You can preview the route from the starting position to the final destination by touching the arrow screen buttons inside the Route Preview pop-up menu.

Info (Information): Touch the Info screen button to view POI information such as the POI name, address, and phone number, if available.

Edit: Touch the Edit screen button to select a POI as the next destination you would like to preview.

To preview a POI's destination instead of the final destination, do the following:

1. Touch the Edit screen button.
2. Touch the Select POI screen button.
3. Touch the screen button of the desired POI category.
4. Touch the icon screen button of the desired POI, then touch the OK screen button.
5. Touch the Back screen button twice to get to the Edit Route Preview screen.
6. Touch the Next POI screen button, then touch the OK screen button.
7. Touch the Back screen button to return to the Route Preview screen.

Now when you touch the arrow screen buttons to preview the route, it will trace the route to the next selected POI rather than the route to the final destination.

To return to previewing the route to the final destination, do the following:

1. Touch the Edit screen button.
2. Touch the Next screen button.

3. Touch the OK screen button, then the Back screen button to return to the Route Preview screen.

Now when you touch the arrow screen buttons to preview the route, it will trace the route to the final destination rather than the route to the next POI.

Use the following arrow screen buttons from the Route Preview pop-up menu to trace a route:

 **(Preview to current location):** Touch this screen button to preview the route traveling toward the vehicle's current location. Touch this screen button repeatedly to increase the speed at which the indicator will trace the route.

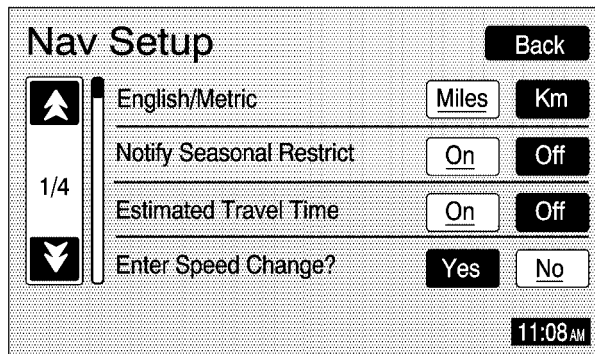
 **(Preview to final destination):** Touch this screen button to view the route traveling toward the final destination. Touch this screen button repeatedly to increase the speed at which the indicator will trace the route.

 **(View current location):** Touch this screen button to view the vehicle's current location along the current route.

 **(View final destination):** Touch this screen button to view the final destination along the current route.

Navigation Setup

 **(Navigation Setup):** Select this screen button to display the Nav Setup menu.



From this menu, several options may be selected, adjusted, or turned on and off. Touch the up or down arrow screen buttons to the left of the menu options to scroll through the list. The following are the available options with a brief explanation of each:

English/Metric: This feature switches distance measurements between English or metric. Touch the Miles screen button for English measurements, or the Km (kilometers) screen button for metric measurements.

Notify Seasonal Restrict (Restrictions): This feature notifies the driver of seasonal maneuver restrictions. Touch the On screen button to have a voice prompt warn of existing seasonal restrictions played at guidance points. Touch the Off screen button to turn this feature off.

Estimated Travel Time: This feature displays the estimated time to travel from your current position to the destination. Touch the On screen button to have the estimated travel time displayed with the distance to destination, or the Off screen button to turn this feature off.

Enter Speed Change?: This feature allows you to adjust estimated speeds for Freeway, Main street, or Residential driving. These speed values are used to calculate estimated travel time. To change estimated speeds, touch the Yes screen button. The Change Speed menu will appear. Touch the arrow screen buttons under each road type to increase or decrease the speed. The maximum allowable speed to set is 100 mph (161 km). You may also touch the Default screen button to choose factory default speed settings as your choice. When your adjustments are complete, touch the Back screen button to return to the Nav Setup menu.

Auto Reroute: With this feature on, the navigation system will automatically recalculate a route if you drive off course. Touch the Off screen button to turn this feature off.

Voice Guide in All Mode: Touch the On screen button to hear navigation voice prompts while in Audio mode. Touch the Off screen button to turn this feature off.

Current Street Name: Touch the On screen button to display the current street name that the vehicle is traveling on. Touch the Off screen button to turn this feature off.

Exit Information: This feature will display map icons which can be selected to display the next exit's information, including Point of Interest (POI) facilities such as gas stations, restaurants, and lodging. Touch the On screen button to display exit information icons, or touch the Off screen button to cancel the display of exit information icons.

Map Color (Day): This feature allows you to adjust the daytime map appearance. Choose between Normal, Auto, 1, 2, 3, or 4. The numbered settings vary the color scheme of the map display. The Auto setting will change the map appearance automatically every three months. When the desired color setting has been selected, press the NAV hard key to view the adjusted map color.

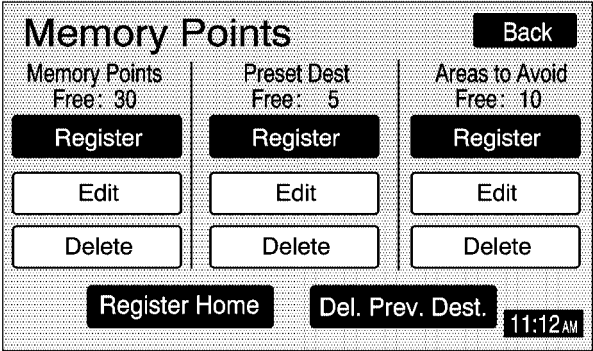
Map Color (Night): This feature allows you to adjust the nighttime map appearance. Choose between Normal, Auto, 1, 2, 3, or 4. The numbered settings vary the color scheme of the map display. The Auto setting will change the map appearance automatically every three months. When the desired color setting has been selected, press the NAV hard key to view the adjusted map color.

Calibrate System?: This feature will calibrate wheel speed to assist in the calculation of vehicle position. This feature also allows you to manually reposition the vehicle symbol on the map. You may need to calibrate the system following a tire change, rotation, or if your vehicle has been relocated a great distance. Touch the Yes screen button to calibrate the system, or the No screen button to leave the calibration as it is. See *Vehicle Positioning on page 2-34* for more information.

Select Defaults?: This feature allows you to restore all available factory default settings in the Nav Setup menu. Touch the Yes screen button to restore defaults, or the No screen button to retain the current settings.

Memory Points

☐ **(Memory Points):** Select this screen button to display the Memory Points menu. This menu contains options for registering, deleting, and editing marked points stored in memory, such as memory points, preset destinations, and areas to avoid.



Memory Points: Choosing to add a memory point will take you to the Destination menu. See *Destination on page 2-17* for more information on how to register Memory Points. You may register up to 30 memory points. The name, location, information, and icon for a memory point can be edited.

Preset Dest (Destination): Five preset destinations, as well as one for home, may be registered or edited. The five preset destinations and home are the only destination selections available from the Destination menu while the vehicle is moving. These presets are shown as the home symbol and numbered presets 1 through 5 at the bottom of the Destination menu. See *Destination on page 2-17* for more information on how to register preset destinations.

Areas to Avoid: Up to 10 areas to avoid may also be registered from the Memory Points menu. Areas to avoid include areas such as high traffic areas, construction areas, or any main roads, or intersections you want to avoid. When registering or editing an area to avoid, the size of the area may also be increased or decreased by touching the up or down arrow screen buttons on the scroll bar.

Register Home: Touch this screen button to access the Register Home screen. Choose a method of destination entry and enter the destination you would like to store as home. Once your entry is complete, touch the Register Point screen button to store this point as home. Each time you touch the home symbol from the bottom of the Destination screen, this destination will be calculated.

Once you have stored a destination as home, the Register Home screen button will change to read Delete Home. You may then touch this screen button to delete the destination you have stored as home.

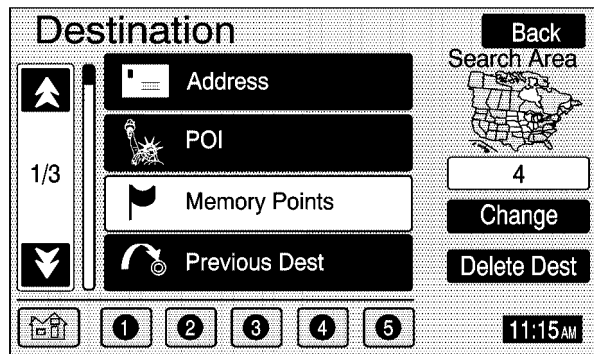
Del. Prev. Dest. (Delete Previous Destination): Touch this screen button to delete a previous destination. A list of previous destinations will display on the Delete Previous Dest screen. Touch the screen button next to the previous destination you wish to delete. You will be asked to confirm your decision. Touch the Yes screen button to delete the destination or touch the No screen button to cancel the deletion.

You may also touch the Del. All screen button from the Delete Previous Dest screen to delete all previous destinations listed. You will be asked to confirm this decision as well. Touch the Yes screen button to delete all previous destinations or touch the No screen button to cancel the deletion.

Destination

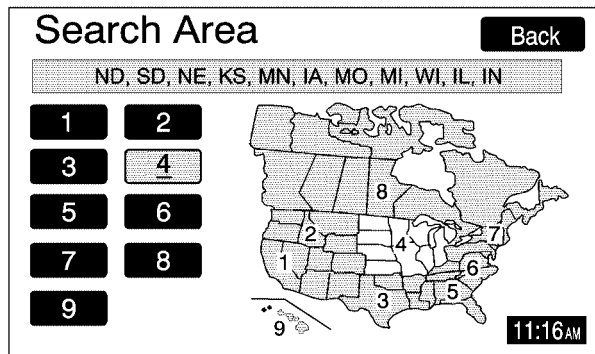
The Destination menu gives several ways to plan a route by entering destination points.

Touch the Dest screen button at the bottom of the map screen to display the Destination menu.



Search Area: The Destination menu allows you to select the area to be searched for your destination. A map of the 48 contiguous United States, including Hawaii, and Canada will be shown. The map is divided into nine regions.

Before selecting a destination, review the search area map on the right side of the menu to make sure your destination is located in the highlighted region.



Change: Touch this screen button to see a more detailed search area map with a list of states or to change the search area. The Search Area screen will appear. Touch the numbered screen button to the left of the map that corresponds with the numbered region you wish to choose.

Delete Dest (Destination): Touch the Delete Dest screen button on the Destination menu to delete the current destination.

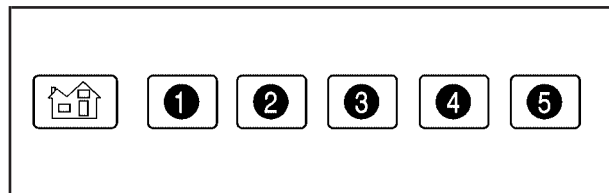
▲ / ▼ (Up and Down Arrows): Touch the up or down arrow screen buttons, on the Destination menu, to scroll through the pages of the menu.

Once your destination entry is complete, a screen with the destination preview menu will display. See "Destination Preview Menu" later in this section for more information.

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

Preset Destinations

The preset destination entry method allows you to select destinations that were registered as presets 1 through 5.



These presets, along with the home symbol preset, are located at the bottom of each page of the Destination menu. Besides the home preset destination, these are the only presets available for selection while the vehicle is moving.

Address

The Address destination entry method allows you to input an address by providing the system with a house number, street name, and city name.

The screenshot shows the 'Address' entry screen. At the top, the word 'Address' is displayed in a large font, and a 'Back' button is in the top right corner. Below the title, there are three input fields: 'House #', 'Street', and 'Input Street Name'. The 'Street' field has a small icon of a street sign to its left. To the right of the 'Input Street Name' field is a four-star rating indicator. Below these fields is a large alpha-numeric keypad with letters A-Z, numbers 0-9, and symbols like hyphen, ampersand, and apostrophe. To the right of the keypad are three buttons: a left arrow, 'City', and 'List'. In the bottom right corner, there is a digital clock showing '11:18 AM'.

If you know the city where the address is located, touch the City screen button. The City screen allows you to select from the last five cities entered, the nearest five cities to the current location, or you may enter in the name of the city. Touch the Input City Name screen button and enter in the city using the alpha keypad. See “Alpha-Numeric Keypad” under *Using the Navigation System on page 2-2* for more information.

Use the same city name that you would use when mailing a letter. The system will search for an entry exactly as you have entered it. If you did not include a space between words where necessary, the system may not be able to find the desired location. As information is entered, the system will automatically search for available names, and the List screen button will become available. Touch the List screen button to view name choices and select the desired city name, or touch the Back screen button to continue to spell the city name, further reducing the number of available items. The box at the end of the Street entry field will contain the number of city names available in the current generated list. If you do not know the city, proceed to entering the street name.

Enter the street name using the alpha keypad. See “Alpha-Numeric Keypad” under *Using the Navigation System on page 2-2* for more information. Do not include name extensions such as N. or Drive. For example, the street name N. Civic Center Drive should be entered as Civic  Center. The system will search for an entry exactly as you have entered it. If you did not include a space between words where necessary, the system may not be able to find the desired location.

As information is entered, the system will automatically search for available names, and the List screen button will become available. Touch the List screen button to view name choices and select the desired street name, or touch the Back screen button to continue to spell the street name, further reducing the number of available items. The box at the end of the Street entry field will contain the number of street names available in the current generated list.

Once the street name has been selected, enter the house number using the numeric keypad. The system will list the house number range that is available for the street. When you have finished entering the house number, touch the OK screen button. If the address number exists on more than one street that shares the same name, a list of matching street names will display. Touch the screen button by the desired street name.

If you have not already entered in the city name for the address, a list of cities that contain the address will display. Touch the screen button by the desired city to select it.

Point of Interest (POI)

The Point of Interest (POI) destination entry method allows you to choose a destination from the POI list. Select the POI screen button from the Destination menu to access the POI entry menu. The POIs in the database are cross referenced between Name, Category, and City.

POI

Back

Name Input POI Name ****

Category City

A B C D E F G H

I J K L M N O P

Q R S T U V W X

Y Z [] ^ _ & À-Ý 0-9

List

11:19 AM

Search for a POI by using a combination of the following three methods:

- Type in a POI by name using the alpha-numeric keypad. As you type in a name, the system will search for an available match. Select the desired POI.

While inputting a POI or city name, the List screen button will become available. The box at the end of the Name entry field will contain the number of items in the current generated list. Touch the List screen button to view the list of available names, or continue to spell the name to further reduce the list.

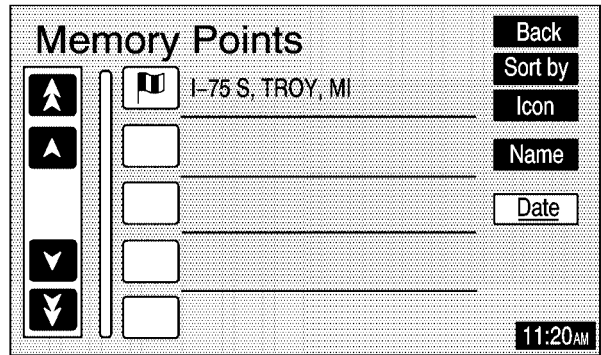
- Select a POI by selecting the Category option. Select a category from the list. If the list of available POIs for the category selected is still too long, you may need to input the name or city for the POI.
- Touch the City screen button and type in the city you wish to select a POI from.

If an arrow appears to the right or left of the item name, the complete name is too long for the display. Touch the right or left arrow screen buttons to scroll to the end or beginning of the name.

The POI for Restaurant is broken down into several categories. Select the Restaurant screen button from the POI choices. A list of cuisine types will then appear.

Memory Points

The Memory Points destination entry method allows you to select a destination by choosing from a list of marked points on the map that were previously marked.



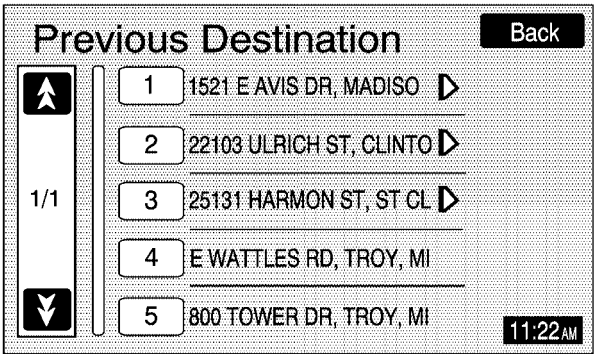
Memory points include up to 30 saved points, five preset destinations, and a home destination. Select the Memory Points screen button from the Destination screen to select any one of the marked points as the active destination. Marked points can also be sorted by icon, date saved, or alphabetically.

If a memory point has been registered, you can select an icon to correspond with that memory point. To register that memory point with a sound, touch the With Sound screen button, then select a sound.

See “Memory Points” under *Navigation Menu on page 2-8* for more information on registering, editing, and deleting memory points.

Previous Destination

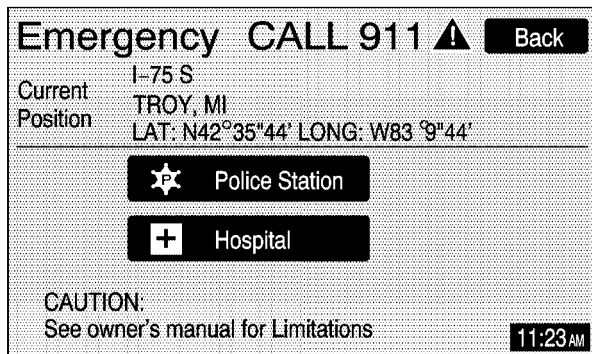
The Previous Destination entry method allows you to select a destination by selecting from a list of previously entered destinations.



Touch the number next to the destination to select it as a destination or a waypoint.

Emergency

The Emergency destination entry method allows you to select a destination by selecting from a list of emergency facilities. The list will vary by area.



Selecting Police Station or Hospital will display a list. Select a destination from the list, select Enter Destination, Route, then Start to start route guidance. The list can be changed to appear in alphabetical order or in order by distance from your vehicle's location.

This screen also provides the address and map coordinates of your vehicle's current position.

Map

The Map destination entry method displays the last location on the map, and the road preference.

Scroll across and touch the map at the location you would like to set as your destination. Once you have located the desired destination, touch the Enter Destination screen button and then the OK screen button. The route will then be calculated. Begin driving to start route guidance or touch the Route screen button and then the Start screen button.

You can zoom out to view the entire regional map. See "Touch-Sensitive Screen Buttons" under *Using the Navigation System on page 2-2* for more information. However, if you zoom out as much as possible and scroll around the map, some parts of the map will appear to be missing because they are not readable in larger scales.

Previous Start Point

The Previous start point destination entry method allows you to select the last start point as a destination.

Phone Number

The Phone Number destination entry method allows you to search for a point of interest (POI) destination by entering the POI phone number.

Phone Number

Back

Input Phone Number

1

2

3

4

5

6

7

8

9

0

<

OK

11:29 AM

Enter the POI phone number on the numeric keypad and touch the OK screen button. The destination location will display. Most phone numbers for POIs included in the DVD database can be entered to locate a destination. Cellular phone numbers and internal company phone numbers cannot be entered to locate a destination.

Intersection

The Intersection destination entry method allows you to select a destination by inputting the intersecting roads.

Intersection

Back

1st Street

Input 1st Street Name

2nd Street

A

B

C

D

E

F

G

H

<

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

List

Y

Z

_

-

&

A-Y

0-9

11:30 AM

To enter a destination using this method, enter the name of the street, but do not include name extensions such as N. or Drive. For example, the street name N. Civic Center Drive should be entered as Civic Center. The system will search for an entry exactly as you have entered it. If you did not include a space between words where necessary, the system may not be able to find the desired location. This will bring up a list of streets with that name. Select the desired street name from the list.

Now begin entering the second street name, and select the desired street name from the list. After both street names in the intersection have been selected, a list of cities containing the selected intersection will appear. If there are several cities that contain that specific intersection, you must specify a city. Select the desired city from the list. The route will then be calculated. Begin driving to start route guidance or touch the Route screen button and then the Start screen button.

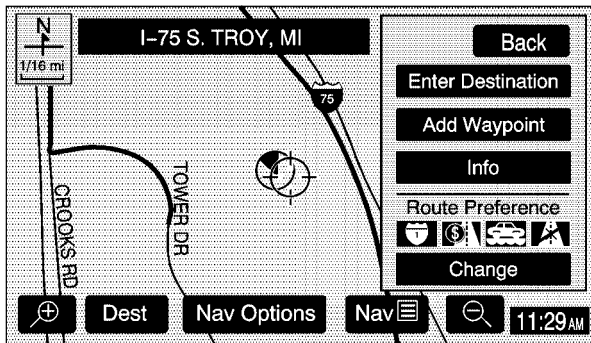
Freeway Entrance/Exit

The Freeway Entrance/Exit destination entry method allows you to select a destination by entering a freeway entrance or exit point.

The screenshot shows a screen titled "Freeway Ent/Exit". At the top right is a "Back" button. Below the title are two input fields: "Freeway" and "Input F-way Name", with a "694" button to the right of the second field. Below these is an "Ent/Exit" button followed by a large empty text input area. The main part of the screen is an alpha-numeric keypad with letters A-Z, numbers 0-9, and symbols like hyphen, ampersand, and apostrophe. A "List" button is to the right of the keypad. At the bottom right, a digital clock displays "11:30 AM".

Enter Freeway names using the alpha keypad. See "Alpha-Numeric Keypad" under *Using the Navigation System on page 2-2* for more information. After entering the freeway name, enter the name of the entrance or exit that you want to set as the destination.

Destination Preview Menu



Each time a destination is entered, a screen with the destination preview menu will appear. This screen will display a zoomed in view of the destination, as well as the following options:

Enter Destination: Touch this screen button to set the current destination as the only destination in the system. The route will be calculated and the Route Preview screen will display.

Add Waypoint: Touch this screen button to add the current destination to your current trip. The Add Waypoint screen will display. Touch the Add screen button that corresponds with where you would like to add the current destination. Up to five waypoints can be added.

Info (Information): When a POI icon is selected on the screen, touch this screen button to display the name, address, and telephone number, if available, for the selected POI. See “Navigation Options” later in this section for more information on POIs and their icons.

Route Preference: This option will display the Route Preference screen. To adjust route preferences, touch Change. See “Edit Route” under *Navigation Menu* on page 2-8 for more information.

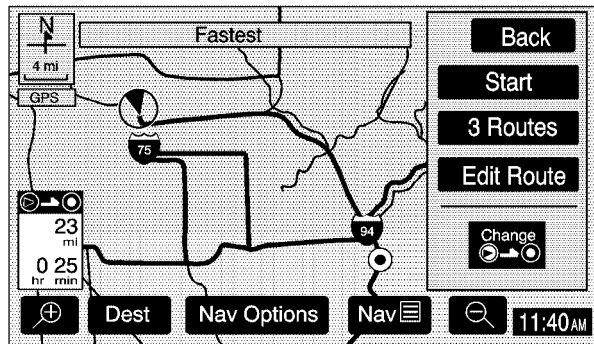
Once the desired adjustments from the destination preview menu are complete, the route overview menu can be displayed. See “Route Overview Menu” following in this section for more information.

Once you have entered your destination by touching the Enter Destination screen button, you can do one of the following:

- Press the NAV hard key to begin route guidance.
- Start driving to begin route guidance.
- Touch the Route screen button on the map screen displaying the new destination to make further changes. See “Route Overview” following in this section for more information.

Route Overview Menu

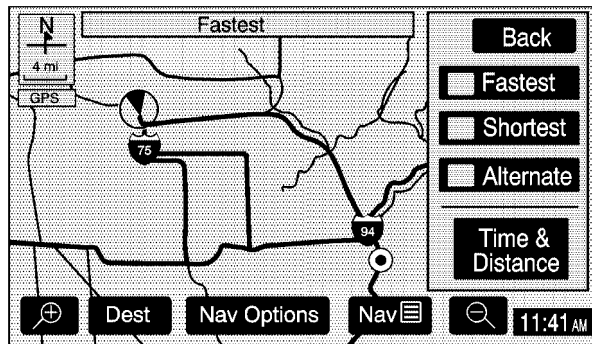
Each time a destination has been selected and entered, the route overview menu can be displayed by touching the Route screen button on the map screen.



The following three options will display:

Start: Touch this screen button to select the current highlighted route and begin route guidance.

3 Routes: Touch this screen button to display the map with three highlighted routes shown in three different colors indicating the Fastest, Shortest, and Alternative routes.

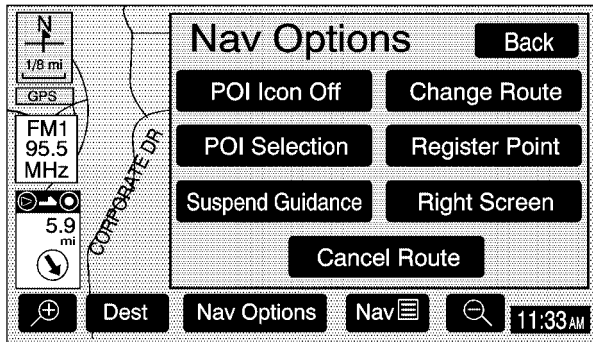


After selecting one of the three routes, the road distance and estimated travel time will display. The Fastest route means you will be routed along main roads and highways, but does not necessarily mean it is the shortest route. Touch the Time & Distance screen button to view the road distance and estimated travel time for each of the three routes.

Edit Route: Touch this screen button to change the route preferences. See “Edit Route” under *Navigation Menu on page 2-8* for more information.

Press Back at any time to return to the previous screen.

Navigation Options

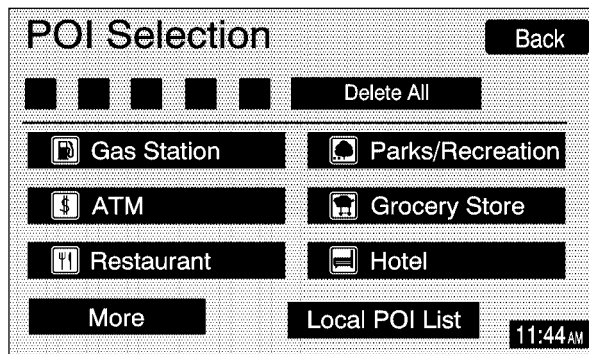


Nav Options Menu shown with a Set Destination

Once a destination is selected and you begin your route, touch the Nav Options screen button to view a menu with additional route options. Select from the following route options:

POI Icon On/Off: This option allows you to turn Point of Interest (POI) icons on or off of the map.

POI Selection: This option allows you to select which types of POIs will be displayed on the map.



After selecting POI selection, the POI Selection screen will appear and display the different POI categories. You can select up to five different POI categories by touching the categories on the screen. Touch the More screen button to view more categories. The icons for the selected categories will appear at the top of the screen and will display on the map.



To view a list of local POIs, touch the Local POI List screen button. The Local POI List screen will list the closest POIs from the categories you have selected. You can sort these POIs by distance, icon/category, or name. Touch the Route screen button to display POIs along your current route. Once you select the desired POI, a map of the area with a symbol marking the destination will display.

Suspend/Resume Guidance: This option allows you to suspend or resume active route guidance for all current and programmed destinations. See “Suspend Guidance” under *Navigation Menu on page 2-8* for more information.

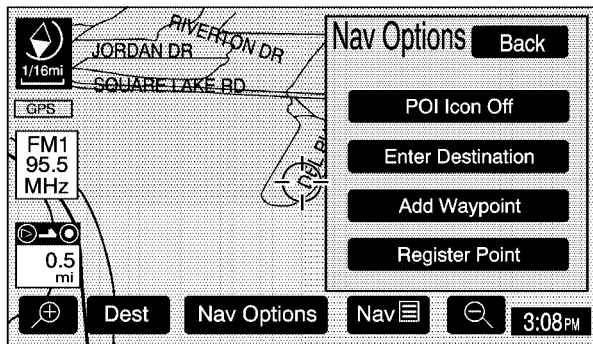
Cancel Route: This option allows you to cancel the current or first destination. The second programmed destination will then be used if one is available.

Change Route: This option allows you to change the route search condition while the vehicle is moving. The following options may be available:

- Detour for 1 mile?: Touch the Yes screen button to recalculate your route and detour one mile around the vehicle’s current position.
- Detour for 3 miles?: Touch the Yes screen button to recalculate your route and detour three miles around the vehicle’s current position.
- Change to fastest?: Touch the Yes screen button to recalculate to the fastest route.
- Change to shortest?: Touch the Yes screen button to recalculate to the shortest route.
- Reroute from adjacent road?: Touch the Yes screen button to recalculate from another road on your route, near the vehicle’s current position.

Register Point: This option allows you to register a marked point or memory point. See “Memory Points” under *Navigation Menu on page 2-8* for more information.

Right Screen: If a split-screen is currently displayed, this option allows you to adjust options for the right screen.



If the position on the map is away from the current vehicle position, touch the Nav Options screen button, to select from the following four options:

POI Icon On/Off: This option allows you to turn Point of Interest (POI) icons on or off of the map.

Enter Destination: This option allows you to set a location you have chosen on the map as your destination. See “Map” earlier in this section for more information on this destination entry method.

Add Waypoint: This option allows you to add the map destination to your current destinations.

Register Point: This option allows you register a marked point or memory point. See “Memory Points” under *Navigation Menu on page 2-8* for more information.

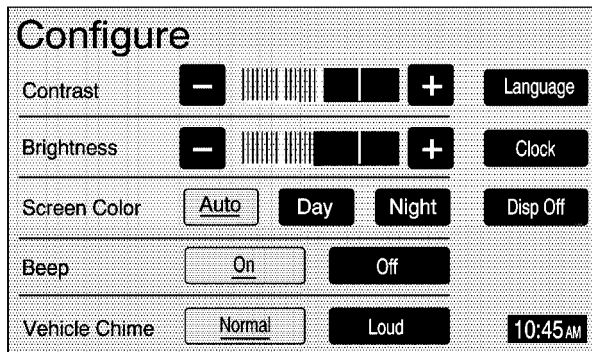
Colors on the Screen

When a route has been planned, it will be highlighted on the screen in blue.

Different colors are also used to distinguish between interstate freeways, state highways, county roads, major streets, and secondary streets. Highways will be shown as a thicker line than a general street.

Configure Menu

The Configure menu allows you to set up and adjust such things as screen color, appearance, and language of the display for the navigation system. Press the CONFIG hard key to access the Configure menu.



Contrast/Brightness/Mode

Contrast: Touch the plus (+) or minus (–) sign screen buttons to increase or decrease the contrast of the screen.

Brightness: Touch the plus (+) or minus (–) sign screen buttons to increase or decrease the brightness of the screen.

AUTO (Automatic): Touch this screen button for the system to automatically adjust the screen background depending on exterior lighting conditions.

Day: Touch this screen button and the system will make the map background brighter.

Night: Touch this screen button and the system will make the map background darker.

Beep

With this feature on, a beep will sound every time a screen button is pressed on the navigation screen. Select Off to turn the beeps off.

Vehicle Chime

Notice: The chime signals related to seat belts, parking brake, and other functions of your vehicle operate through the navigation/radio system. If that equipment is replaced or additional equipment is added to your vehicle, the chimes may not work. Make sure that replacement or additional equipment is compatible with your vehicle before installing it.

This feature allows you to adjust the chime volume level in your vehicle. Touch the Normal screen button for normal chime volume or the Loud screen button for a louder chime volume.

Language

Your vehicle has been set for the English language, but you may also select French for all instructional text and voice prompts. However, names on the map when using the navigation functions will not change.

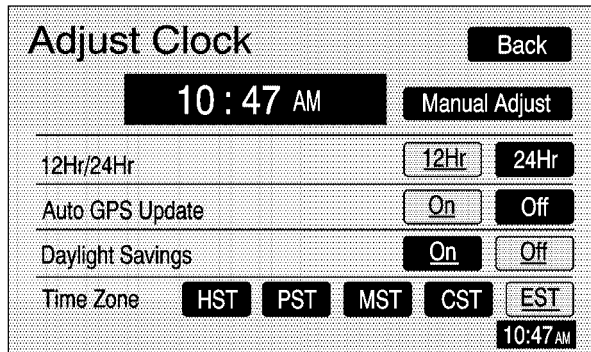
To change the language, the map DVD must be inserted. Then, do the following:

1. Touch the Language screen button. A caution will display.
2. Touch the desired language to select it.
3. Touch the NEXT screen button to change the display back to the map screen.

If the language is changed from English, the menu screens will not match word-for-word as they appear in this manual.

If you accidentally select a language you do not understand, press the CONFIG hard key, then the Language screen button, then select the desired language.

Clock



To adjust the time displayed touch the Clock screen button. This will take you to the Adjust Clock screen.

You may also touch the time display in the lower right corner of the navigation screen to briefly display the date.

To change the hours and minutes on the clock, do the following:

1. Touch the Manual Adjust screen button.
2. Touch the up or down arrow screen buttons to increase or decrease the hours and minutes.
3. Touch the Back screen button to return to the previous screen.

12Hr/24Hr: This feature allows you to choose whether the time is displayed in standard or military time. Touch the 12Hr screen button for standard time or the 24Hr screen button for military time.

Auto GPS Update: With this feature on, the navigation system time will be set to match the current GPS time. The time will be updated with the GPS time when the ignition is turned on. Touch the Off screen button to turn this feature off.

Daylight Savings: With this feature on, the navigation system will automatically adjust the time for Daylight Savings. Touch the Off screen button to turn this feature off.

Time Zone: This feature allows you to select from five different time zones: HST (Hawaii), PST (Pacific), MST (Mountain), CST (Central), and EST (Eastern). Touch the desired time zone screen button to select it.

Display Off

To turn the navigation screen off, touch the Disp Off screen button on the Configure menu. To turn the screen back on, press any hard key to the left of the navigation screen.

Global Positioning System (GPS)

The Navigation System determines the position of your vehicle by using satellite signals, various vehicle signals and map data.

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

The GPS shows the accurate current position of your vehicle using signals sent by the GPS Satellites of the United States Department of Defense. When your vehicle is not receiving signals from the satellites, a symbol will appear on the map screen.

This system may not be available/or interference may occur if the following happens:

- Signal obstructions caused by tall buildings, large trucks, tunnels,
- objects located on top of the instrument panel,
- satellites will not send signals if they are being repaired or improved,
- after-market glass tinting has been applied to the vehicle's windows.

Notice: Do not apply after-market glass tinting to the vehicle's windows. Glass tinting will interfere with the system's ability to receive GPS signals and cause the system to malfunction. You might have to replace the window to correct the problem. This would not be covered by your warranty.

For more information if you are experiencing a problem, see *If the System Needs Service* on page 2-36 and *Problems with Route Guidance* on page 2-35.

Vehicle Positioning

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

- The road system has changed.
- The vehicle is driving on slippery road surfaces such as in sand, gravel and/or snow.
- The vehicle is traveling on winding roads.
- The vehicle is on a long straight road.
- The vehicle is approaching a tall building or a large vehicle.
- The surface streets run parallel to a freeway.
- The vehicle has just been transferred by a vehicle carrier or a ferry.
- The current position calibration is set incorrectly.
- The vehicle is traveling at high speed.
- The vehicle changes directions more than once, or when the vehicle is turning on a turn table in a parking lot.
- The vehicle is entering and/or exiting a parking lot, garage or a lot with a roof.
- The GPS signal is not received.

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

If you experience problems with your system, see “Navigation Setup” under *Navigation Menu on page 2-8* to calibrate the system.

Problems with Route Guidance

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

- You have not turned onto the road indicated.
- Route guidance may not be available when using automatic rerouting for the next right or left turn.
- The route may not be changed when using automatic rerouting.

- There is no route guidance when turning at an intersection.
- Plural names of places may be announced occasionally.
- It may take a long time to operate automatic rerouting during high-speed driving.
- Automatic rerouting may display a route returning to the set waypoint if you are heading for a destination without passing through a set waypoint.
- The route prohibits the entry of a vehicle due to a regulation by time or season or any other regulation which may be given.
- Some routes may not be searched.
- The route to the destination may not be shown if there are new roads, if roads have recently changed or if certain roads are not listed on the map DVD. See *Ordering Map DVDs on page 2-36*.

To recalibrate the vehicle's position on the map, see “Navigation Setup” under *Navigation Menu on page 2-8* to calibrate the system.

If the System Needs Service

If your system needs service and you have followed the steps listed here and still are experiencing problems, see your dealer/retailer for assistance.

Ordering Map DVDs

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

If you have any questions about the operation of the navigation system or the update process, contact the GM Nav Disc Center toll-free phone number, 1-877-NAV-DISC (1-877-628-3472) or go to the center's website, www.gmnavdisc.com. If you need any updates or a replacement disc, because the current disc is lost, damaged, or needs to be updated, call the GM Nav Disc Center or order a new disc online. To order a disc, have your Vehicle Identification Number (VIN) available. This helps the center make sure you receive the correct and most up-to-date DVD map disc for your vehicle. See "Vehicle Identification Number (VIN)" in the Index of your vehicle's owner manual for more information.

After receiving the updated disc, replace the old disc in the navigation system. See "Installing the DVD Map Disc" and "Ejecting the DVD Map Disc" under *Maps on page 2-5*. Dispose of the old disc to avoid confusion about which disc is the most current.

Database Coverage Explanations

Coverage areas vary with respect to the level of map detail available for any given area. Some areas will feature greater levels of detail than others. If this happens, it does not mean there is a problem with the system. As the map DVD is updated, more detail may become available for areas which previously had limited detail. See *Ordering Map DVDs on page 2-36*.

Section 3 Navigation Audio System

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Navigation Audio System

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

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

Your vehicle has a feature call Retained Accessory Power (RAP). With RAP, the audio system will continue to play even after the ignition is turned off. See "Retained Accessory Power (RAP)" in the Index of your vehicle's owner manual for more information.

The audio system is operated using navigation system menus.

Playing the Radio

 **(Power/Volume):** Press this knob to turn the audio and navigation system on and off. Turn the knob to increase or decrease the volume.

Finding a Station

BAND: Press this hard key to access the band menu and to switch between AM, FM1, FM2, XM1, or XM2, if equipped.

 **(Tuning) Knob:** Turn this knob to change radio frequencies.

 **SEEK** : Press the SEEK up or down arrows to go to the next or previous station and stay there.

To scan stations, press and hold the SEEK up or down arrow for two seconds until you hear a beep. The radio will go to a station, play for a few seconds, then go on to the next station. Press either SEEK arrow again to stop scanning.

To scan preset stations, press and hold the SEEK up or down arrow for more than four seconds. You will hear two beeps and PSCAN will appear on the display, along with the highlighted preset. The radio will go to one of the preset stations, play for a few seconds, then go on to the next preset station. Press either SEEK arrow again to stop scanning presets.

The radio will only seek and scan stations with a strong signal that are in the selected band.

Setting Preset Stations

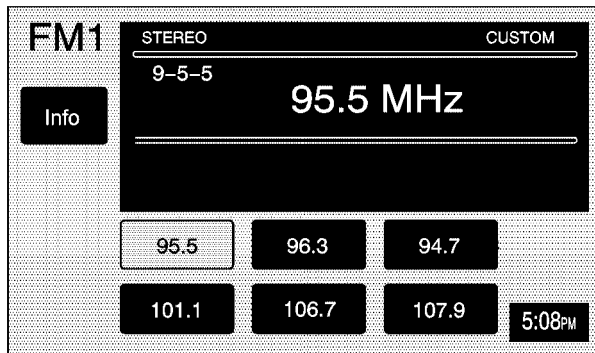
Up to 30 stations, six AM, six FM1, six FM2, six XM1, and six XM2, if equipped, can be programmed using the six screen buttons on the bottom of each band menu.

To set preset stations, do the following:

1. Turn the audio system on.
2. Press the BAND hard key to select AM, FM1, FM2, XM1, or XM2, if equipped.
3. Tune to the desired station using the SEEK hard key arrows or the tuning knob.
4. Press and hold one of the six preset screen buttons until you hear a beep. Whenever that preset screen button is pressed, the station that was set will return.
5. Repeat the steps for each preset and source.

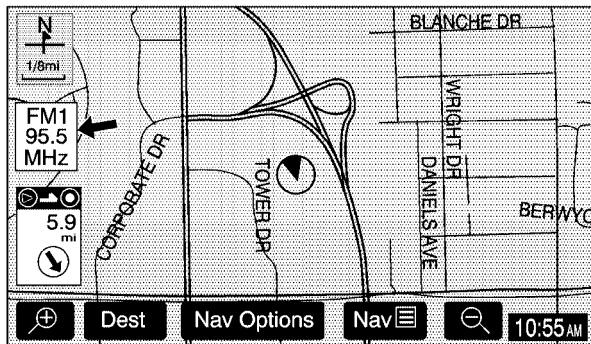
Band Menu

If the radio is on while the navigation system is not in use, this band menu will display the current audio information, as well as list the presets for the current band.



FM1 Source shown, Other Sources similar

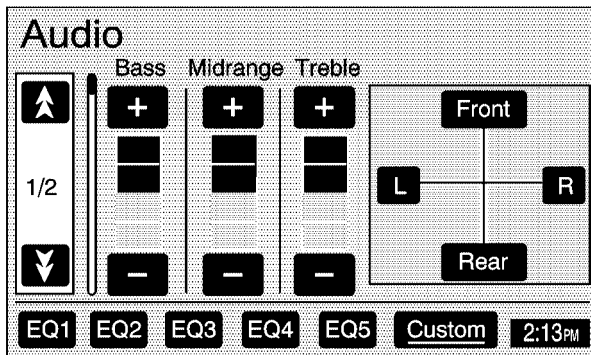
If the radio is on while the navigation system is in use, a smaller band menu will appear, located on the left side of the map screen. This audio screen will display the current audio information, such as band and station. Touch the smaller band menu screen button to access the full screen band menu.



FM1 Source shown, Other sources Similar

Audio Menu

🎵 (Audio): Press this hard key to display the Audio menu. Several adjustment options are available from this menu.



Audio Menu

Tone (Bass/Midrange/Treble): Touch the plus (+) and minus (–) sign screen buttons to increase or decrease the Bass, Midrange, or Treble. If a station is weak or noisy, decrease the treble.

Speakers (Balance/Fade): Touch the L (left) or R (right) screen buttons to adjust the balance between the left and right speakers. Touch the Front or Rear screen buttons to adjust the fade between the front and rear speakers.

Speed Compensated Volume (SCV): With SCV, the audio system will adjust automatically to make up for road and wind noise as you drive, by increasing the

volume as vehicle speed increases. Touch the down arrow screen button to access the second page of the Audio menu. Set the volume at the desired level, then select Low, Med, or High. The volume level should always sound the same to you as you drive. To turn SCV off, touch the Off screen button.

EQ (Equalizer): Use the screen buttons labeled EQ1 through EQ5 to choose preset bass, midrange, and treble equalization settings. The Custom screen button allows you to choose and set the equalization levels. To set a custom equalization setting, adjust each setting to the desired level, then touch the Custom screen button until you hear a beep.

After adjustments are made, press the BAND hard key to go back to the preset station menu. Now that you have preset the station and the EQ setting, you can assign the EQ to the preset station. To do this, touch the desired preset station screen button until you hear a beep. The EQ setting will now be assigned to that station unless you decide to change it.

If you were at the CD screen before setting an EQ and you press the CD hard key, you will be returned to the CD screen, and the EQ will be set to that screen until you change it.

See “Rear Seat Audio (RSA)”, “Theft-Deterrent Feature”, “Audio Steering Wheel Controls”, “Radio Reception”, and the antenna information in the Index of your vehicle’s owner manual for more information.

Radio Data Systems (RDS)

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

- Display station name
- Display messages from radio stations
- Display song title and artist name

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

While the radio is tuned to an RDS station, the station name will appear on the display with the frequency.

Touch the Info screen button on the band menu to receive information the selected radio station is currently broadcasting.

XM™ Satellite Radio Service

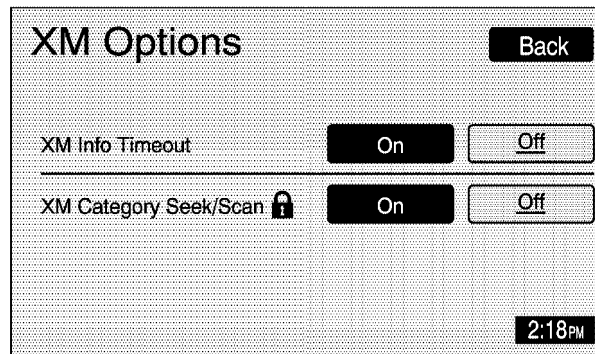
XM™ is a satellite radio service that is based in the 48 contiguous United States and Canada. XM™ offers a large variety of coast-to-coast channels including music, news, sports, talk, traffic/weather (U.S. subscribers), and children's programming. XM™ provides digital quality audio and text information that includes the channel name and number, song title, and artist name. A service fee is required in order to receive the XM™ service. For more information, contact XM™; In the U.S. at www.xmradio.com or call 1-800-852-XXMM (9696) or in Canada at www.xmradio.ca or call 1-877-GET-XMSR (438-9677).

Press the BAND hard key repeatedly until you reach the XM™ selection. When XM™ is active, the channel name and number, song title, and artist will display on the screen.

Touch the XM Info screen button to display additional XM station information.

XM™ Options

Touch the XM Options screen button to access the XM Options menu.



This menu allows you to seek or scan for stations based on their category. Touch the On screen button next to XM Info Timeout to hide XM™ information after a certain amount of time has passed. Touch Off to turn this feature off.

While in this menu, turn XM Category Seek/Scan on to scroll through the categories you want to seek to. This option will take you to the first available channel in that category.

XM™ Radio Messages

XL (Explicit Language Channels): XL on the radio display, after the channel name, indicates content with explicit language. These channels, or any others, can be blocked at a customer's request by calling 1-800-852-XMXM (9696).

XM Updating: The encryption code in the receiver is being updated and no action is required.

No XM signal: The vehicle is in a location that is blocking the XM™ signal. When the vehicle is moved into an open area, the signal should return.

Loading XM: The audio system is processing audio and text data received. No action is needed.

Channel Off Air: This channel is not currently in service.

Channel Unavail: This previously assigned channel is no longer assigned.

No Artist Info: No artist information is available. The system is working properly.

No Title Info: No song title information is available. The system is working properly.

No CAT Info: No category information is available. The system is working properly.

Not Found: There are no channels available for the selected category. The system is working properly.

No Information: No text or informational messages are available. The system is working properly.

XM Theftlocked: The XM™ receiver may have previously been in another vehicle. For security purposes, XM™ receivers cannot be swapped between vehicles. If this message is received after having your vehicle serviced, check with your dealer/retailer.

XM Radio ID: If tuned to channel 0, this message will alternate with the XM™ Radio eight digit radio ID label. This label is needed to activate the service.

Unknown: If this message is received when tuned to channel 0, there may be a receiver fault. Consult with your dealer/retailer.

Check XM Receiver: If this message does not clear within a short period of time, the receiver may have a fault. Consult with your dealer/retailer.

CD Player

Remove the navigation map DVD from the slot and return it to its case. Insert a CD partway into the slot, label side up. The player will pull it in.

There will be a 12 to 15 second delay while the CD is read, before it begins to play. When the player begins to read a CD, the Disc Check in Process message will appear briefly to remind you of the delay. When the map DVD is reinserted and read, the DVD Check in Process message will appear briefly to remind you of the delay.

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

If playing a CD-R the sound quality may be reduced due to CD-R quality, the method of recording, the quality of the music that has been recorded, and the way the CD-R has been handled. There may be an increase in skipping, difficulty in finding tracks, and/or difficulty in loading and ejecting. If these problems occur, check the bottom surface of the CD. If the surface of the CD is damaged, such as cracked, broken, or scratched, the CD will not play properly. If the surface of the CD is soiled, see "Care of Your CDs" in the Index of your vehicle's owner manual.

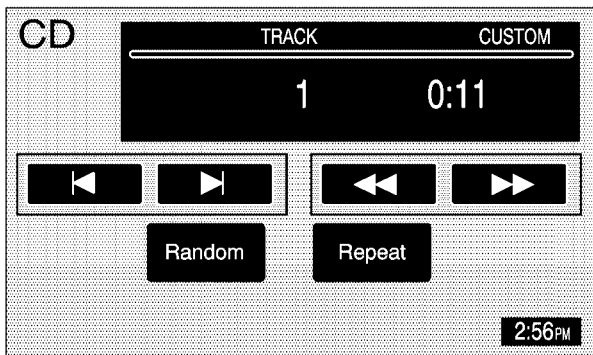
If there is no apparent damage, try a known good CD.

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

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

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

While playing a CD in the CD player, the navigation system is not available. A message will display if the NAV key is pressed. If your vehicle is equipped with Rear Seat Entertainment (RSE), you can play an audio CD while using the navigation system. See *Rear Seat Entertainment (RSE) System on page 3-12* for more information.



 **(CD):** Press this hard key to play a CD when listening to the radio. The CD screen will be displayed.

 **(Eject):** Press this hard key to eject a CD.

Random: Touch this screen button to play the tracks in random, rather than sequential, order. Touch it again to turn off random play.

Repeat: Touch this screen button to repeat the track that is currently playing. Touch it again to turn off repeat play.

 **(Forward):** Touch this screen button to advance quickly within a track. As the CD advances, elapsed time will display to help you find the correct passage. Release this screen button to play the passage.

 **(Reverse):** Touch this screen button to reverse quickly within a track. As the CD reverses, elapsed time will display to help you find the correct passage. Release this screen button to play the passage.

►| **(Track Forward):** Touch this screen button to advance to the next track on the CD.

◀| **(Track Reverse):** Touch this screen button to return to the previous track on the CD.

△ **SEEK** ▽: Press and release the SEEK up arrow to advance to the next track, or the down arrow to return to the previous track. If more than two seconds of the song has played, pressing the SEEK down arrow will return you to the beginning of the current track.

Track Scan: Press and hold one of the SEEK arrows for two seconds or more to enter CD TRACK SCAN mode. A chime will sound. The first 10 seconds of each track will play. Press one of the SEEK arrows again to stop scanning.

BAND: Press the BAND hard key to listen to the radio when a CD is playing.

CD Messages

CD ERROR: If this message appears on the screen, the CD is not being read by the system. The CD could be dirty, scratched, wet, or upside down. You may also be driving on a very rough road. When the road becomes smoother, the CD should play.

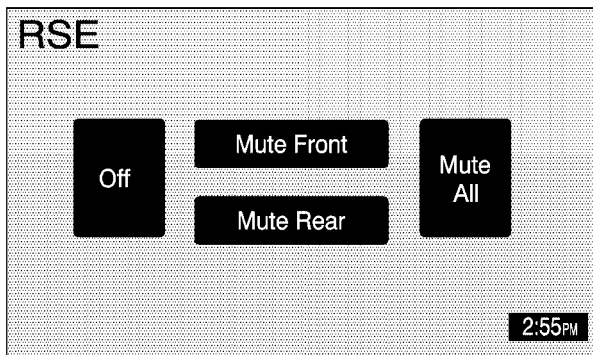
NO MUSIC DISC: If this message appears on the screen, the map DVD is still inserted in the system. Press eject and return the map DVD to its case, then insert a CD. The CD should play.

NO DISC: If this message appears on the screen, the CD slot is empty. Insert a CD. The CD should play.

If a CD is not playing correctly for any other reason, try a known good CD. If any error occurs repeatedly or if an error cannot be corrected, contact your dealer/retailer. If your radio displays an error message, write it down and provide it to your dealer/retailer when reporting the problem.

See “Rear Seat Audio (RSA)”, “Care of Your CDs and DVDs”, “Care of Your CD and DVD Player” in the Index of your vehicle's owner manual for more information.

Rear Seat Entertainment (RSE) System



Your vehicle may have a DVD Rear Seat Entertainment (RSE) system. While playing a DVD or audio CD in the RSE, press the CD hard key to view the RSE screen and to switch to DVD as your main audio source. The RSE system will then be heard through all of the vehicle's speakers. From the RSE screen you can mute the Front or Rear speakers, mute RSE entirely, or turn off RSE.

When the RSE system is turned off, you must turn it back on from the RSE system. It cannot be turned back on through the navigation system radio.

RSE Messages

CD ERROR: If this message appears on the navigation screen, the DVD or CD is not being read by the system. The DVD or CD could be dirty, scratched, wet, or upside down. You may also be driving on a very rough road. When the road becomes smoother, the DVD or CD should play.

RSE ERROR: If this message appears on the navigation screen, the RSE system is not working properly. See "DVD Messages" under "Rear Seat Entertainment System" in the Index of your vehicle's owner manual for more information.

NO DISC: If this message appears on the navigation screen, the DVD slot is empty. Insert a DVD or CD. The DVD or CD should play.

See "Rear Seat Entertainment System", "Rear Seat Audio (RSA)", "Care of Your CDs and DVDs", and "Care of Your CD and DVD Player", in the Index of your vehicle's owner manual for more information.

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