

# 2009 HUMMER H3/H3T Navigation System

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

## Canadian Owners

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

Helm, Incorporated  
P.O. Box 07130  
Detroit, MI 48207  
1-800-551-4123  
helminc.com

## Propriétaires Canadiens

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

Helm Incorporated  
P.O. Box 07130  
Detroit, MI 48207  
1-800-551-4123  
helminc.com



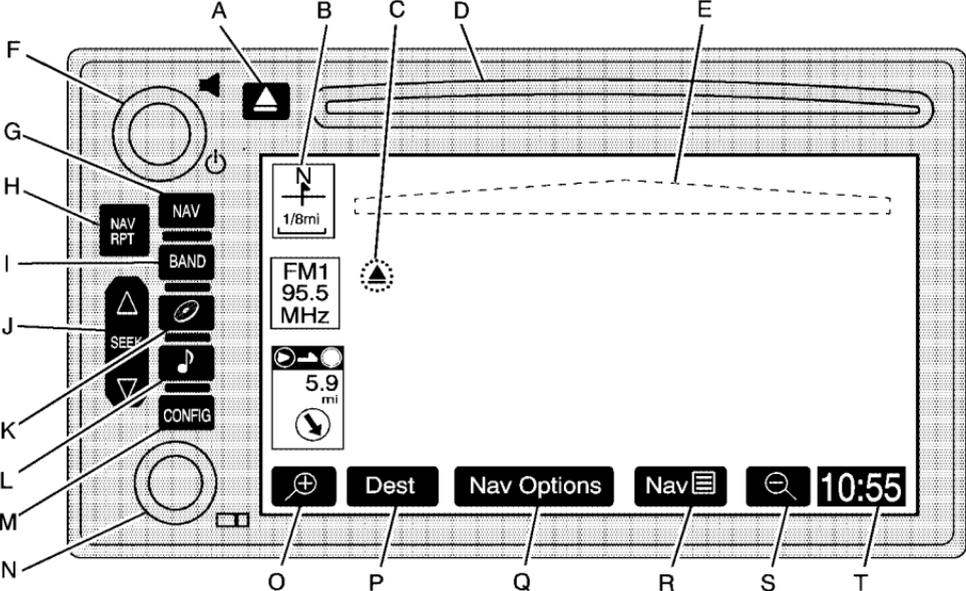
# Section 1 Overview

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# Overview

## Navigation System Overview



- A.  (Tilt Open/CD Eject) Key. See “Hard Keys” under *Using the Navigation System on page 2-2*.
- B. Directional Indicator. See *Symbols on page 2-7*.
- C.  (DVD Eject) Key. See “Hard Keys” under *Using the Navigation System on page 2-2*.
- D. CD Loading Slot. See *CD Player on page 3-8*.
- E. DVD Loading Slot. See “Loading a DVD Map Disc” under *Getting Started on page 1-4*.
- F.  (Power/Volume) Knob. See “Hard Keys” under *Using the Navigation System on page 2-2*.
- G. NAV (Navigation) Key. See “Hard Keys” under *Using the Navigation System on page 2-2*.
- H. NAV RPT (Navigation Repeat) Key. See “Hard Keys” under *Using the Navigation System on page 2-2*.
- I. BAND Key. See “Playing the Radio” under *Navigation Audio System on page 3-2*.
- J.   SEEK  Key. See “Finding a Station” under *Navigation Audio System on page 3-2* or *CD Player on page 3-8*.
- K.  (CD) Key. See *CD Player on page 3-8*.
- L.  (Audio) Key. See *Navigation Audio System on page 3-2*.
- M. CONFIG (Configure) Key. See “Hard Keys” under *Using the Navigation System on page 2-2*.
- N.  (Tuning) Knob. See “Finding a Station” under *Navigation Audio System on page 3-2*.
- O.  (Zoom In) Screen Button. See “Touch Sensitive Screen Buttons” under *Using the Navigation System on page 2-2*.
- P. Dest (Destination) Screen Button. See “Touch Sensitive Screen Buttons” under *Using the Navigation System on page 2-2*.
- Q. Nav (Navigation) Options Screen Button. See “Touch Sensitive Screen Buttons” under *Using the Navigation System on page 2-2*.
- R. Nav  (Navigation Menu) Screen Button. See “Touch Sensitive Screen Buttons” under *Using the Navigation System on page 2-2*.
- S.  (Zoom Out) Screen Button. See “Touch Sensitive Screen Buttons” under *Using the Navigation System on page 2-2*.
- T. Clock. See “Clock” under *Configure Menu on page 2-31*.

## Getting Started

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

The navigation system includes navigation and audio functions.

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

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

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

- Become familiar with the navigation system operation, hard keys on the faceplate, and touch-sensitive screen buttons of the navigation system.
- Set up the audio by presetting favorite stations, setting the tone, and adjusting the speakers.
- Set up the navigation features before beginning driving, such as entering an address or a preset destination.

- Set up your phone numbers in advance so they can be called easily with the press of a single button or a single voice command (for navigation systems equipped with phone capability).

### CAUTION:

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

### CAUTION:

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

Use the navigation system to:

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

You should always be alert and obey traffic and roadway laws and instructions, regardless of the guidance from the navigation system. Because the navigation system uses street map information that does not include all traffic restrictions or the latest road changes, it may suggest using a road that is now closed for construction or a turn that is prohibited by signs at the intersection. Because the system uses limited information, you must always evaluate whether following the system's directions is safe and legal for the current conditions.

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

## **CAUTION:**

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

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

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

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

## CAUTION

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

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

Some system controls cannot be used when vehicle is moving.

OK

Every fifty times the vehicle is started and the navigation system is turned on, the Caution screen appears. After reading the caution, select OK to load the map DVD information. If OK is not selected, all hard keys except for NAV (Navigation) and DEST (Destination) can be accessed. You can also press the NAV hard key to have this Caution screen appear.

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

## Deleting Personal Information

This navigation system can record and store destinations. At times, such as when selling or returning a leased 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:

1. Press  (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  (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 a beep is heard or the station is displayed on the selected preset button.

## Setting the Clock

To set the time:

1. Press  to turn the system on.
2. Press the CONFIG hard key.
3. Touch the Clock screen button.
4. Scroll through the Time Zones until the desired time zone highlights.
5. Touch the Daylight Savings screen button.

The time is now set. Touch the Manual Adjust screen button if further adjusting of the time is needed.

The radio uses 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 2-34* for more information.

## Loading a DVD Map Disc

To load a DVD map disc, do the following:

1. Press  to turn the system on.
2. Press and hold , for about 10 seconds, to tilt the screen forward.
3. Insert the DVD map disc into the DVD slot.

**Notice:** Pressing directly on the navigation screen may cause damage. Repairs would not be covered by the vehicle's warranty. Do not press directly on the navigation screen.

4. To close the screen, slightly push up on the two outer top corners until the screen is in position, then push the screen in, by pushing on the four outer corners, until a click is heard.
5. A notice may appear. Touch the Next screen button to proceed.

## 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. The vehicle must be in P (Park) to perform this operation.

### Setting the Search Area

To set the search area:

1. If a DVD map disc is not currently loaded, see “Loading a DVD Map Disc” earlier in this section. If a map disc is currently loaded, proceed to Step 2.
2. Press  to turn the system on.
3. Touch the Dest screen button.
4. Touch the Change screen button.
5. Touch the appropriate Search Area numbered screen button that contains the final destination.

The system returns to the Destination menu.

## Entering an Address

A destination can be set by entering an address. To enter an address:

1. If a DVD map disc is not currently loaded, see “Loading a DVD Map Disc” earlier in this section. If a map disc is currently loaded, proceed to Step 2.
2. Press  to turn the system on.
3. Touch the Dest screen button.
4. Verify that the selected Search Area is correct.
5. Touch the Address screen button.
6. Enter the city name using the alpha keypad on the screen.
7. Select the city name from the list by touching the screen button next to the correct city name.
8. 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.

9. Select the desired street name from the list by touching the screen button next to the correct street name.
  10. Enter the address number using the numeric keypad on the screen. The correct range may have to be selected for the address number, then enter the desired address and touch the OK screen button. The map screen displays.
  11. Touch the Set Destination screen button. The address entry is now complete.
  12. Touch the Route screen button.
  13. Touch the Start screen button.
  14. Once driving begins, an audio prompt states "Proceed to the highlighted route." The system is now in route guidance mode.
6. 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 lists the POIs in alphabetical order or, if there are multiple POIs with the same name, the system lists the POIs in order of distance from your location.
    - Touch the screen button next to the address of the POI desired.

## Entering a Point of Interest (POI)

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

1. If a DVD map disc is not currently loaded, see "Loading a DVD Map Disc" earlier in this section. If a map disc is currently loaded, proceed to Step 2.
  2. Press  to turn the system on.
  3. Touch the Dest screen button.
  4. Verify that the selected Search Area is correct.
  5. Touch the POI screen button.
7. Touch the Set Destination screen button. The POI entry is now complete.
  8. Touch the Route screen button.
  9. Touch the Start screen button.
  10. Once driving begins, an audio prompt states "Proceed to the highlighted route." The system is now in route guidance mode.

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

## Setting Home Destination

1. If a DVD map disc is not currently loaded, see “Loading a DVD Map Disc” earlier in this section.  
If a map disc is currently loaded, proceed to Step 2.
2. Press  to turn the system on.
3. Touch the Nav  (navigation) menu screen button.
4. Touch the Memory Points screen button.
5. Touch the Register Home screen button.
6. Touch the Address screen button and then enter all address information.
7. Touch OK. The map screen displays.
8. Touch the Register Point screen button to store the home address as a memory point.

The home symbol is now available on the Destination screen. See “Using Your Home or Preset Destinations” later to use the home destination as a planned route.

## Setting Preset Destinations

1. If a DVD map disc is not currently loaded, see “Loading a DVD Map Disc” earlier in this section.  
If a map disc is currently loaded, proceed to Step 2.
2. Press  to turn the system on.
3. Touch the Nav  (navigation) menu screen button.
4. Touch the Memory Points screen button.
5. Touch the Register screen button under the Preset Dest. column.
6. Touch one of the five preset buttons.
7. Touch the Address screen button and then enter the address information.
8. Touch OK. The map screen displays.
9. Touch the Register Point screen button to store the memory point.

The preset destination number is now available on the Destination screen. See “Using Your Home or Preset Destinations” later to use preset destinations as a planned route.

## Using Your Home or Preset Destinations

These destinations are available for selection while driving.

1. If a DVD map disc is not currently loaded, see “Loading a DVD Map Disc” earlier in this section. If a map disc is currently loaded, proceed to Step 2.
2. Press the power/volume knob to turn the system on.
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. The map screen displays.
5. If currently driving on a route, touch the Set Destination screen button. The system calculates the new route. If not currently driving on a route, the system automatically calculates a route to the home or preset destination selected.
6. Touch the Route screen button.
7. Touch the Start screen button.
8. Once driving begins, or if already driving, an audio prompt states “Proceed to the highlighted route.” The system is now in route guidance mode.

## Canceling Guidance

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

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

Use a soft clean cotton cloth dampened with clean water.



## 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 are disabled to reduce driver distractions.

### Hard Keys

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

 **(Power/Volume Knob):** Press 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 to repeat the current voice guidance navigation prompt.

**NAV (Navigation):** If in a menu and not on the map screen, press this key to view the map showing the 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.

More information on each feature can be found on a map screen later in this manual.

**BAND:** Press 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 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 3-8*.

 **(CD)**: Press to play a CD. The CD screen displays. See *CD Player on page 3-8*.

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

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

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

 **(Tilt Open/CD Eject) Key**: Press this key, located next to the CD slot, to eject a CD.

Press and hold this key, for about 10 seconds, to tilt the screen forward to access the map DVD slot. See “Loading a DVD Map Disc” under *Getting Started on page 1-4* for more information on loading the map DVD.

 **(DVD Eject) Key**: Once the screen is tilted forward, press to eject the map DVD.

## Alpha-Numeric Keypad

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

Touch a character on the screen to select it. The 0 - 9 screen button can be touched at any time from the alpha keypad to access the numeric keypad.

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

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

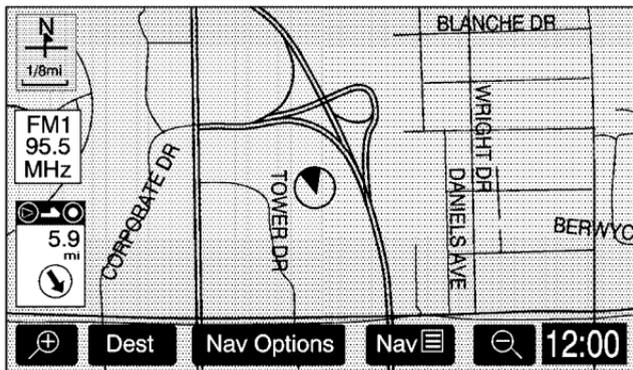
To make name selections easier, the system only allows selection of a character that can follow the last one entered. For example, if a Z is entered, a T is not available to select. The system highlights the available characters.

If a name is not available after input, it may need to be entered 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 2-37*.

## Touch-Sensitive Screen Buttons

Touch-sensitive buttons are located on the screen. After selecting a button on the screen, a beep sounds.

This feature can be turned off. See *Configure Menu on page 2-31* for more information. Screen buttons are highlighted when available. There are some toggle screen buttons illuminate in color when active.



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

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

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

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

** (Zoom In):** Touch to get a closer look at a smaller section of the route being travelled.

** (Zoom Out):** Touch to see a larger scale of the route being travelled. The highlighted route can also be viewed.

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

**Audio Source:** Touch this 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 48 contiguous 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 is 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. To load the DVD if it was not installed:

1. Turn the ignition on.
2. Press and hold the eject key, for about 10 seconds, to tilt the screen forward.
3. Load the map DVD into the DVD slot by inserting it partway. The system pulls it in.

**Notice:** Pressing directly on the navigation screen may cause damage. Repairs would not be covered by the vehicle’s warranty. Do not press directly on the navigation screen.

4. To close the screen, slightly push up on the two outer top corners until the screen is in position, then push the screen in, by pushing on the four outer corners, until a click is heard.

Once the screen is closed, there are two language choices:

- ENG (English)
- FR (French)

Select the language. 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 appears showing the current vehicle position.

## Ejecting the DVD Map Disc

When the DVD map disc is not loaded, the navigation portion of the system cannot be used.

1. Turn the ignition on.
2. Press and hold the eject key to tilt the screen forward.
3. Once the screen is tilted forward, press the eject key next to the DVD map disc slot. The disc ejects.

**Notice:** Pressing directly on the navigation screen may cause damage. Repairs would not be covered by the vehicle's warranty. Do not press directly on the navigation screen.

4. To close the screen, slightly push up on the two outer top corners until the screen is in position, then push the screen in, by pushing on the four outer corners, until a click is heard.

## Handling the DVD Map Disc

When handling the DVD map disc:

- Avoid disc contamination or flaws. Signals may not read out properly if the disc gets contaminated or flawed.
- Avoid getting the disc 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.

- Avoid using the disc to rest on while writing or drawing with any writing utensil, or attaching a seal to any of the sides of the disc.
- Avoid keeping the disc in direct sunlight, high temperatures, or humidity.
- Remember to place the used disc back into the original case.

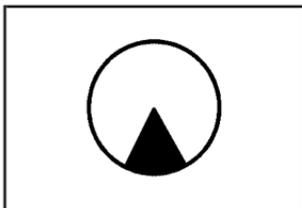
## Map Adjustments and Scales

The map scrolls automatically based on the direction of travel. The scale of view on the map can be adjusted.

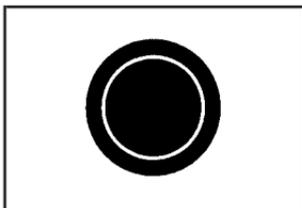
To view a larger or smaller scale of the map, touch zoom in or zoom out. The scale of a map can range from 1/32 of a mile (50 m) to 128 miles (200 km). See "Hard Keys" under *Using the Navigation System on page 2-2* for more information.

## Symbols

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



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



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

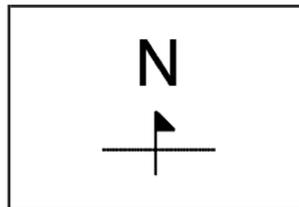
See *Destination* on page 2-17 for information on planning a route.



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

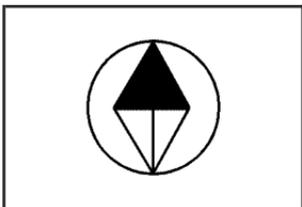
The waypoint symbol is numbered from one through five depending on how many intermediate waypoints have been set.

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 is always 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.



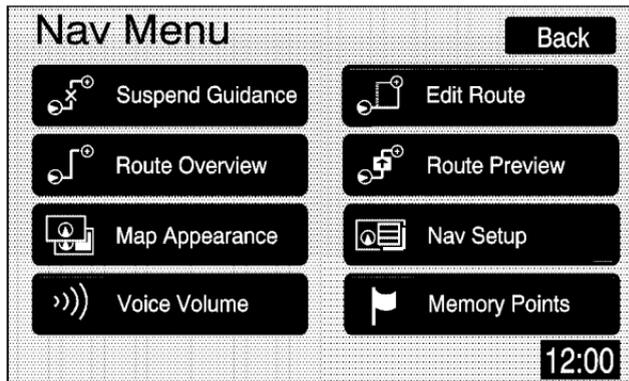
This symbol indicates that the map is shown with the vehicle travel direction up (Heading Up mode).

The shaded triangle indicates North. While in Heading Up mode, the direction the vehicle is traveling is always 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 this screen button at the bottom of the map screen to access the main navigation menu.

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



Choose from the following items on the main navigation menu:

### Suspend Guidance

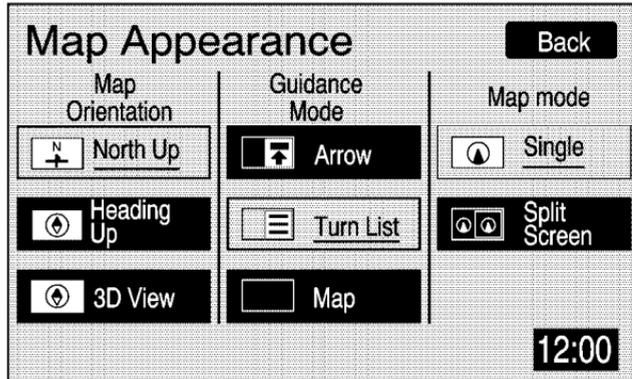
 (**Suspend Guidance**): Select to suspend guidance of all current and programmed destinations. The current route is retained in memory. Voice prompts for navigation can no longer be received. The map can still be viewed by pressing the NAV hard key. If guidance is suspended, touch the Resume Guidance screen button to resume the current route.

## Route Overview

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

## Map Appearance

 **(Map Appearance):** Select to adjust the appearance of a map based on individual 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 the vehicle is driven.

 **(Heading Up):** This feature orients the map with the direction the vehicle is 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 remains in the Heading Up position.

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

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

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

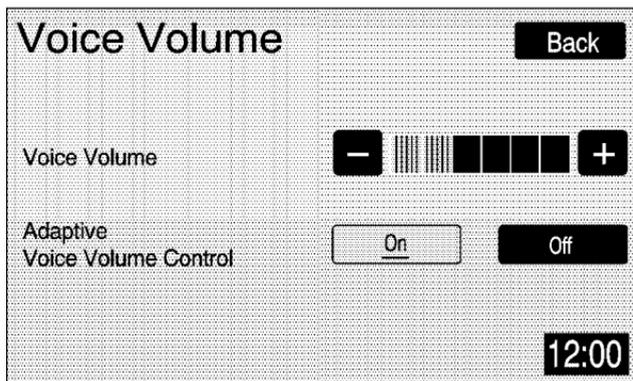
 **(Single):** This feature allows one map to be displayed.

 **(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 2-7*.

## Voice Volume

 **(Voice Volume):** Select to adjust the volume of the voice guidance prompts that provide various messages as the vehicle approaches points where it needs to be maneuvered, such as an intersection.



To adjust the volume of the voice prompts:

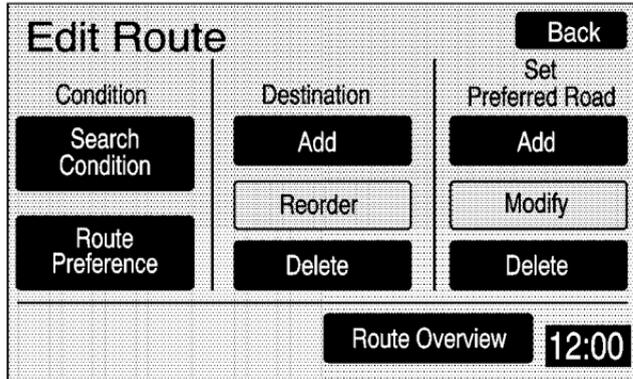
1. Touch the Voice Volume screen button.
2. Touch the plus (+) or minus (-) sign screen buttons to increase or decrease the volume. The voice prompt comes on with each adjustment as a sample of the volume at each level.
3. Once the desired volume level is reached, touch the Back screen button to return to the previous screen.

**Adaptive Voice Volume Control:** The volume of voice prompts 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 to recalculate a route based on individual preferences.



**Search Condition:** Select a route preference by choosing from Fastest, Shortest, or Alternative route. Select the Fastest route to go along main roads and highways, which does not necessarily mean it will be the shortest route. This can be done for each destination and waypoint.

**Route Preference:** Select the road preferences by setting which types of roads to use or avoid.

**Freeway:** Select to allow the system to use major roads when calculating a route.

**Toll Road:** Select to allow the system to use toll roads when calculating a route.

**Ferry:** Select to allow the system to use ferries when calculating a route.

**Restricted Road:** Select to allow the system to use time restricted roads when calculating a route.

**Destination:** Select 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 displays.
4. Touch the Route screen button and the system recalculates the route.
5. Touch the Start screen button to start route guidance.

**Delete:** Press to delete the current destination.

**Set Preferred Road:** Select to add, modify, or delete road preference settings.

**Add:** Press to add a road. The map screen displays. 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.

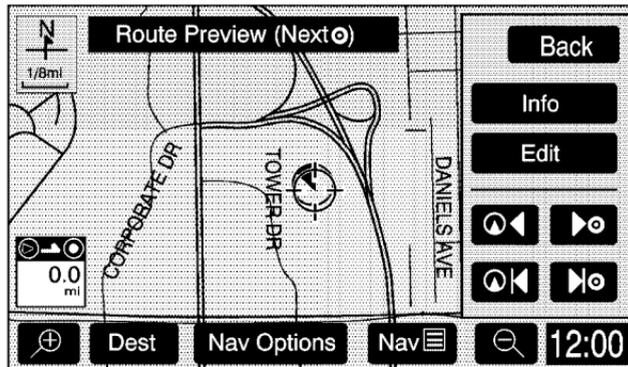
**Modify:** Press to change the preferred road. Follow the directions for the “Add” screen button.

**Delete:** Press to delete road preference settings.

**Route Overview:** Touch 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 while travelling. 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 to view POI information such as the POI name, address, and phone number, if available.

**Edit:** Touch to select a POI as the next destination to be previewed.

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

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.
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 the arrow screen buttons are touched to preview the route, it traces 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:

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 the arrow screen buttons are touched to preview the route, the symbol traces 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 to preview the route traveling toward the vehicle's current location. This button toggles between fast and slow.

  **(Preview to final destination):** Touch to view the route traveling toward the final destination. This button toggles between fast and slow.

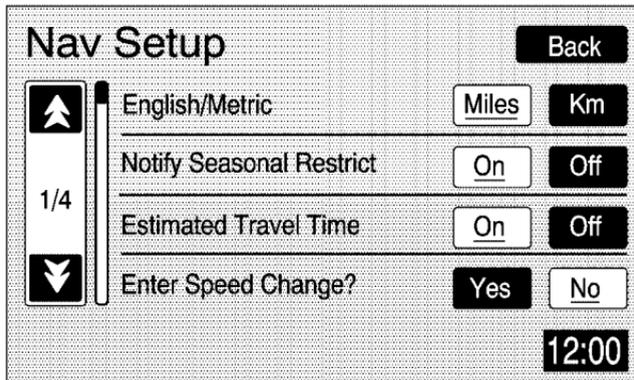
  **(View current location):** Touch to view the vehicle's current position on the current route and the previous waypoint, if waypoints have been set.

  **(View final destination):** Touch to view the final destination on the current route and to view the next waypoint, if waypoints have been set.

See the "Edit" screen button above to program this button to view the next POI location on the current route instead of the final destination.

## Navigation Setup

 **(Nav Setup):** Select to display the Nav Setup menu.



From this menu, several options can 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:** 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):** 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:** Displays the estimated time to travel from the 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?:** Allows adjustment of 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 appears. Touch the arrow screen buttons under each road type to increase or decrease the speed. The maximum allowable speed to set is 95 mph (150 km). Touch the Default screen button to choose factory default speed settings. When the adjustments are complete, touch the Back screen button to return to the Nav Setup menu.

**Auto Reroute:** With this feature on, the navigation system automatically recalculates a route if the vehicle is driven 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:** Displays 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):** Allows adjustment of 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 changes 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.

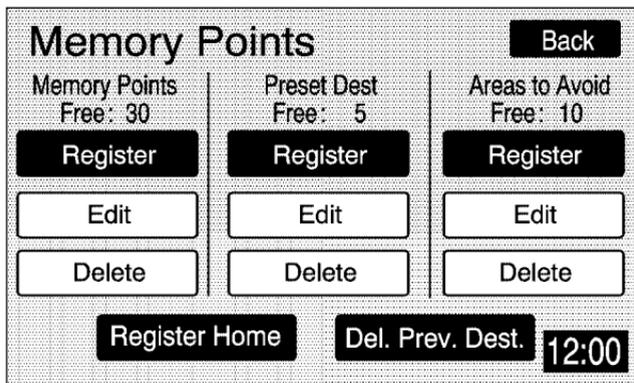
**Map Color (Night):** Allows adjustment of the nighttime map appearance. Choose between Normal, Auto, 1, 2, 3, or 4. The numbered settings vary the color scheme of the map display. The Auto setting changes the map appearance automatically every three months. When the desired color setting has been selected,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

**Calibrate System?:** Calibrates wheel speed to assist in the calculation of vehicle position. It also allows manual repositioning of the vehicle symbol on the map. The system might need to be calibrated following a tire change, rotation, or if the 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 2-35* for more information.

**Select Defaults?:** Allows all available factory default settings in the Nav Setup menu to be restored. 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 takes you to the Destination menu. See *Destination on page 2-17* for more information. Up to 30 memory points can be registered. The name, location, information, and icon for a memory point can also be edited.

**Preset Dest (Destination):** Five preset destinations, as well as one for home, can 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 Memory Points and preset destinations.

**Areas to Avoid:** Up to 10 areas to avoid can 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. When registering or editing an area to avoid, the size of the area can 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 to be stored as home. Once the entry is complete, touch the Register Point screen button to store this point as home. Each time the home symbol from the bottom of the Destination screen is touched, this destination is calculated.

Once a destination has been stored as home, the Register Home screen button changes to read Delete Home. Touch this screen button to delete the destination that was stored as home.

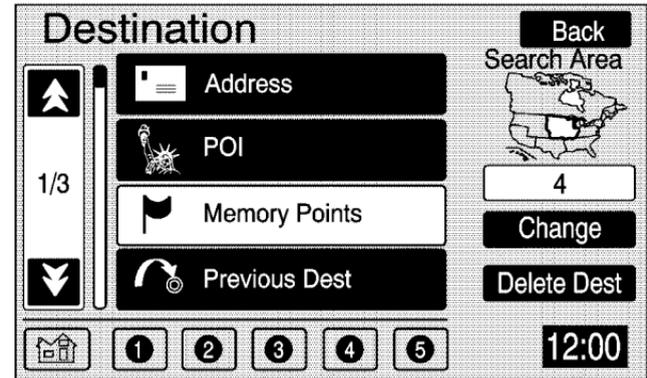
**Del. Prev. Dest. (Delete Previous Destination):** Touch this screen button to delete a previous destination. A list of previous destinations display on the Delete Previous Dest screen. Touch the screen button next to the previous destination to be deleted. Confirmation is required. Touch the Yes screen button to delete the destination or touch the No screen button to cancel the deletion.

Touch the Del. All screen button from the Delete Previous Dest screen to delete all previous destinations listed. Touch the Yes screen button to delete all previous destinations or touch the No screen button to cancel the deletion.

## Destination

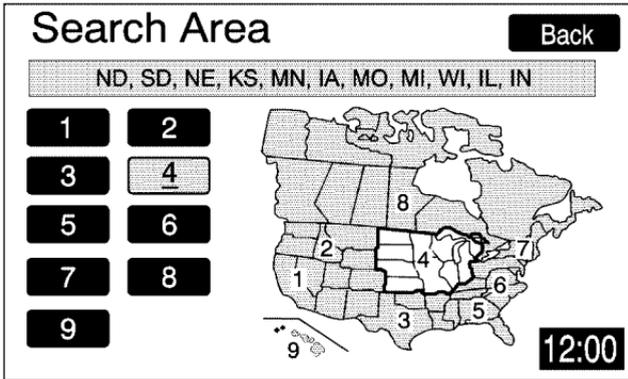
The Destination menu gives several ways to plan a route by entering destination points.

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



**Search Area:** Select the area to be searched for your destination. A map of the 48 contiguous United States, including Hawaii, and Canada is 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 the destination is located in the highlighted region.



**Change:** Touch to see a more detailed search area map with a list of states or to change the search area. The Search Area screen appears. Touch the numbered screen button to the left of the map that corresponds with the numbered region chosen.

**Delete Dest (Destination):** Touch this screen button on the Destination menu. Touch the screen button next to the destination to delete. Select Yes to confirm.

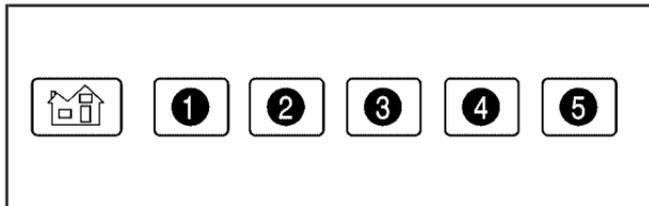
**▲ / ▼ (Up and Down Arrows):** Touch the up or down arrow screen buttons, on the Destination menu, to scroll through the pages of the menu.

Once the destination entry is complete, a screen with the destination preview menu displays. 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

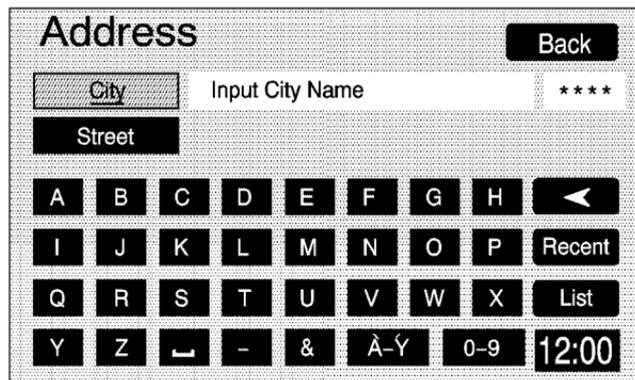
Select destinations that were registered as presets 1 through 5.



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

Input an address by providing the system with a city name, street name, and house number.



Input the city name using the alpha keypad or touch the Recent screen button to view the last five cities entered and the nearest five cities to the current location. Touch the screen button by the desired city name to select the city. See “Alpha-Numeric Keypad” under *Using the Navigation System on page 2-2* for more information.

Use the same city name that would be used when mailing a letter. The system searches for an entry exactly as entered. If a space was not included between words where necessary, the system may not be able to find the desired location. As information is entered, the system automatically searches for available names, and the List screen button becomes 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 contains the number of city names available in the current generated list. If the city is not known, proceed to enter the street name by pressing the Street screen button.

The screenshot shows an address entry interface. At the top, the title "Address" is displayed. Below it, there are two input fields: "House #" and "Street". The "Street" field contains the text "Input Street Name" and "\*\*\*\*" on the right side. Below the "Street" field is an alpha-numeric keypad with buttons for letters A-Z, a spacebar, hyphen/underscore, ampersand, and a range of characters "Å-ÿ". There are also buttons for "0-9" and a clock icon showing "12:00". A "List" button is located to the right of the keypad, and a "Back" button is at the top right of the screen.

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 searches for an entry exactly as entered. If a space is not included between words where necessary, the system may not be able to find the desired location. As information is entered, the system automatically searches for available names, and the List screen button becomes 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 contains 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 lists the house number range that is available for the street. When 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 displays. Touch the screen button by the desired street name.

If the city name for the address has not already been entered, a list of cities that contain the address displays. Touch the screen button by the desired city to select it.

## Point of Interest (POI)

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.

The screenshot shows a mobile application interface for entering a Point of Interest (POI). The screen is titled "POI" and features a "Back" button in the top right corner. Below the title, there is a "Name" label and an "Input POI Name" text field with a "\*\*\*\*" placeholder. To the right of the text field is a small box containing "\*\*\*\*". Below the text field, there are two labels: "Category" and "City", each followed by an empty text field. Below these fields is a numeric keypad with letters A through Z, a back arrow, and a "List" button. The bottom row of the keypad includes a "Y" button, a "Z" button, a back arrow, a "-" button, an "&" button, an "À-ÿ" button, a "0-9" button, and a "12:00" button.

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 a name is typed, the system searches for an available match. Select the desired POI.

While inputting a POI or city name, the List screen button becomes available. The box at the end of the Name entry field contains 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.

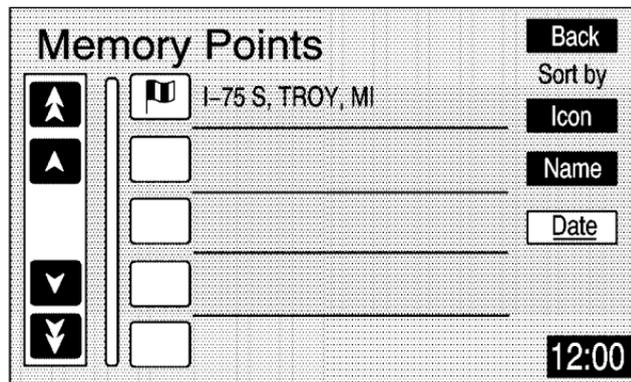
- Select a POI by selecting the Category option. Select a category from the list. If the list of available POIs for the category selected is still too long, the name or city for the POI might need to be entered.
- Touch the City screen button and type in the city to be selected from a POI.

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 appear.

## Memory Points

Select a destination by selecting 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 be sorted by icon, date saved, or alphabetically.

If a memory point has been registered an icon can be selected 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

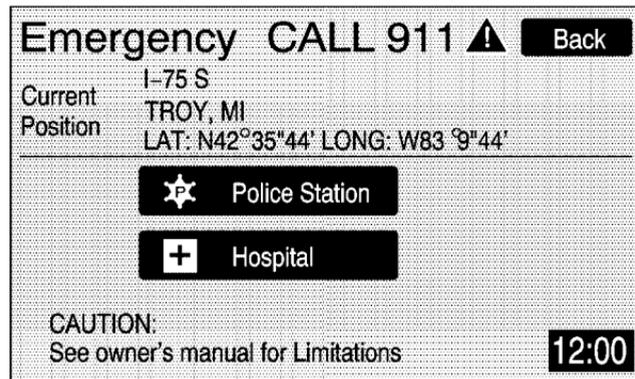
Select a destination by selecting from the list of previously entered destinations.



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

## Emergency

Select a destination by selecting from a list of emergency facilities. The list varies by area.



Selecting Police Station or Hospital displays a list. Select a destination from the list, select Set 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 the 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 to be set as the destination. Once the desired destination has been located, touch OK screen button, then the Set Destination screen button. The route is calculated. Begin driving to start route guidance or touch the Route screen button and then the Start screen button.

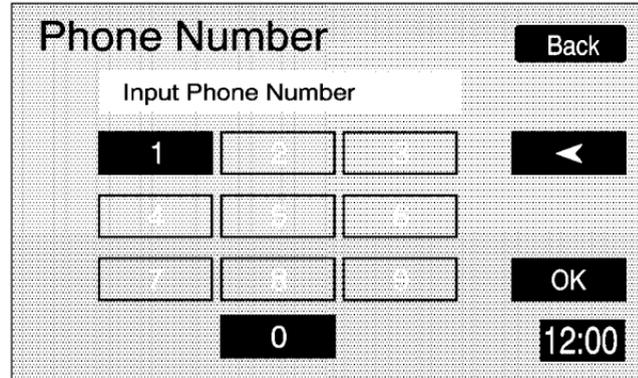
Zoom out to view the entire regional map. See “Touch-Sensitive Screen Buttons” under *Using the Navigation System on page 2-2* for more information. However, if zooming to the maximum, while scrolling around the map, some parts of the map appear to be missing because they are not readable in larger scales.

## Previous Start Point

Select the last start point as a destination. Select the destination and the map screen displays with the location on the map. Select the Set destination screen button, then Route, then the Start screen button to start route guidance.

## Phone Number

Search for a point of interest (POI) destination by entering the POI phone number.



Enter the POI phone number on the numeric keypad and touch the OK screen button. The destination location displays. 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

Select a destination by inputting the intersecting roads.

The screenshot shows a screen titled "Intersection". At the top right is a "Back" button. Below the title are two input fields: "1st Street" with a placeholder "Input 1st Street Name" and a star rating "\*\*\*\*", and "2nd Street" which is currently empty. Below the input fields is a QWERTY keyboard with a back arrow button. A "List" button is located to the right of the keyboard. The time "12:00" is displayed in the bottom right corner.

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 searches for an entry exactly as entered. If a space between words is not included where necessary, the system may not be able to find the desired location. This brings 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 appears. If there are several cities that contain that specific intersection, a city must be specified. Select the desired city from the list. The route is then calculated. Begin driving to start route guidance or touch the Route screen button and then the Start screen button.

## Freeway Entrance/Exit

Select a destination by entering a freeway entrance or exit point.

Freeway Ent/Exit Back

Freeway Input F-way Name 694

Ent/Exit

A B C D E F G H ←

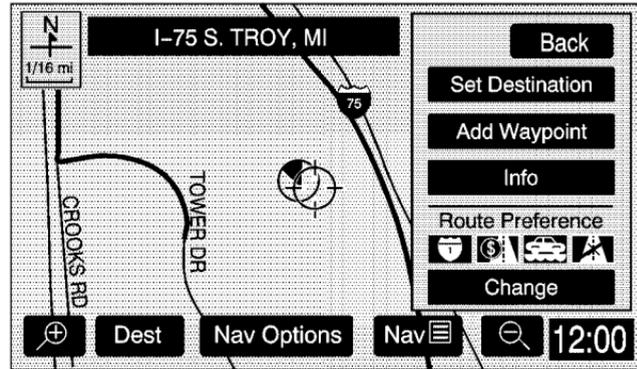
I J K L M N O P

Q R S T U V W X List

Y Z ↵ - & Å-ÿ 0-9 12:00

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 to be set as the destination.

## Destination Preview Menu



Each time a destination is entered, a screen with the destination preview menu appears. This screen displays a magnified view of the destination, as well as the following options:

**Set Destination:** Touch to set the current destination as the only destination in the system. The route is calculated and the Route Preview screen displays.

**Add Waypoint:** Touch to add the current destination to the current trip. The Add Waypoint screen displays. Touch the Add screen button that corresponds where 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 displays the Route Preference screen. To adjust route preferences, touch Change. See “Edit Route” under *Navigation Menu* on page 2-8 for more information.

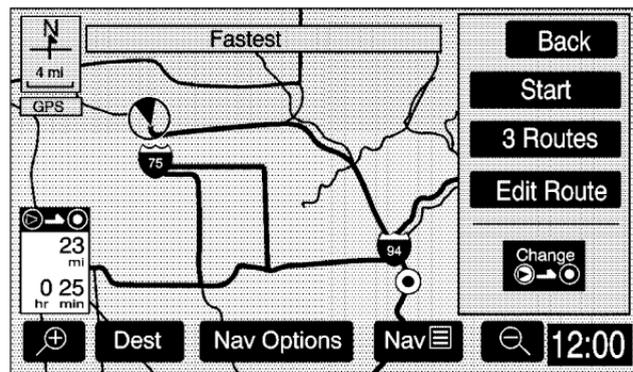
Once the desired adjustments from the destination preview menu are complete, the route overview menu can be displayed. See “Route Overview Menu” following in this section for more information.

Once the destination has been entered, by touching the Enter Destination screen button, one of the following can be done:

- 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

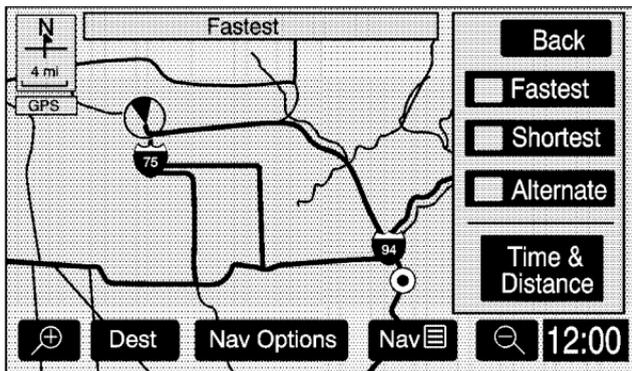
Each time a destination has been selected and entered, the route overview menu can be displayed by touching the Route screen button on the map screen.



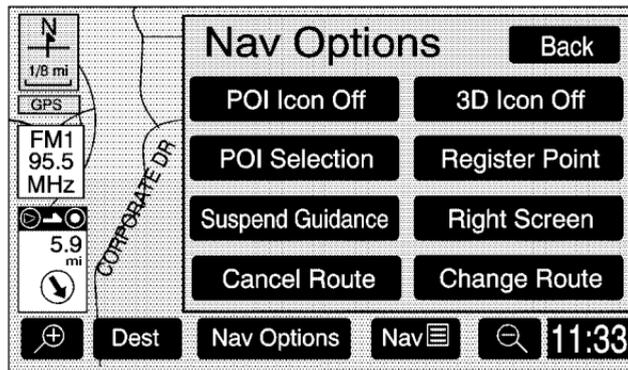
The following three options display:

**Start:** Touch to select the current highlighted route and begin route guidance.

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



## Navigation Options



After selecting one of the three routes, the road distance and estimated travel time displays. The Fastest route means the route follows 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 to change the route preferences. See “Edit Route” under *Navigation Menu on page 2-8* for more information.

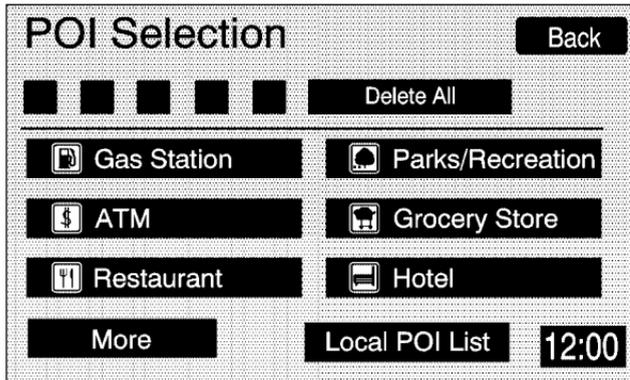
Press Back at any time to return to the previous screen.

### Nav Options Menu shown with a Set Destination

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

**POI Icon On/Off:** Point of Interest (POI) icons can be turned on or off the map.

**POI Selection:** Select which types of POIs will be displayed on the map.



After selecting POI Selection, the POI Selection screen appears and displays the different POI categories. Up to five different POI categories can be selected by touching the categories on the screen. Touch the More screen button to view more categories. The icons for the selected categories appear at the top of the screen and display on the map.

To delete the POI category from the display, select that category from the POI Selection screen again. Press the Delete All screen button to delete all selected POI categories from the map screen.



To view a list of local POIs, touch the Local POI List screen button. The Local POI List screen lists the closest POIs from the categories selected. These POIs can be sorted by distance, icon/category, or name. Touch the Route screen button to display POIs along the current route. Once the desired POI is selected, a map of the area with a symbol marking the destination displays.

**Suspend/Resume Guidance:** Suspends or resumes active route guidance for all current and programmed destinations. See “Suspend Guidance” under *Navigation Menu on page 2-8* for more information.

**Cancel Route:** Cancels the current or first destination. The second programmed destination will then be used if one is available.

**3D Icon On/Off:** Allows the 3D icons to be turned on or off. The 3D icons are for certain structures (buildings, monuments, state capitols, etc.). If this option is on, a 3D icon will appear on the map. Select the icon to receive information such as: the name of what the structure is and how far the vehicle is from that structure. Not all cities have 3D icons.

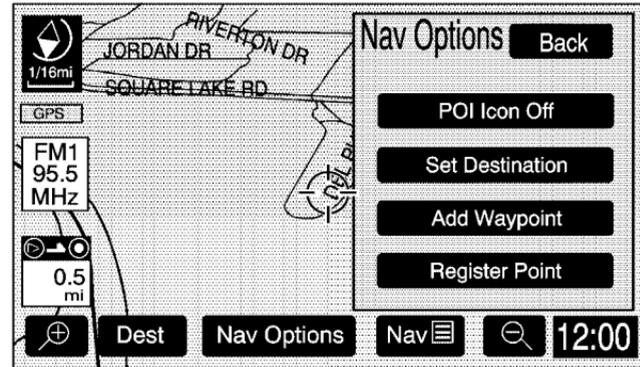
**Register Point:** Registers a marked point or memory point. See "Memory Points" under *Navigation Menu* on page 2-8 for more information.

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

**Change Route:** Changes 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 the route and detour one mile around the vehicle's current position.
- Detour for 3 miles?: Touch the Yes screen button to recalculate the 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 the route, near the vehicle's current position.



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:** Turns Point of Interest (POI) icons on or off the map.

**Set Destination:** Sets a location chosen on the map as the destination. See “Map” earlier in this section for more information on this destination entry method.

**Add Waypoint:** Adds the map destination to the current destinations.

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

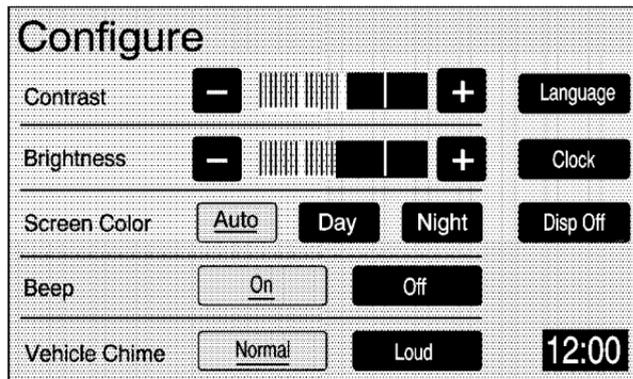
## Colors on the Screen

When a route has been planned, it is 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 are shown as a thicker line than a general street.

## Configure Menu

The Configure menu allows set up and adjustment of 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 makes the map background brighter.

**Night:** Touch this screen button and the system makes the map background darker.

## Beep

With this feature on, a beep sounds 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 safety belts, parking brake, and other functions of the vehicle operate through the navigation/radio system. If that equipment is replaced or additional equipment is added to the vehicle, the chimes may not work. Make sure that replacement or additional equipment is compatible with the vehicle before installing it.

This feature allows adjustment of the chime volume. Touch the Normal screen button for normal chime volume or the Loud screen button for increased chime volume.

## Language

The vehicle has been set for the English language, but French can also be selected for all instructional text and voice prompts. However, names on the map do not appear in French when using the navigation functions.

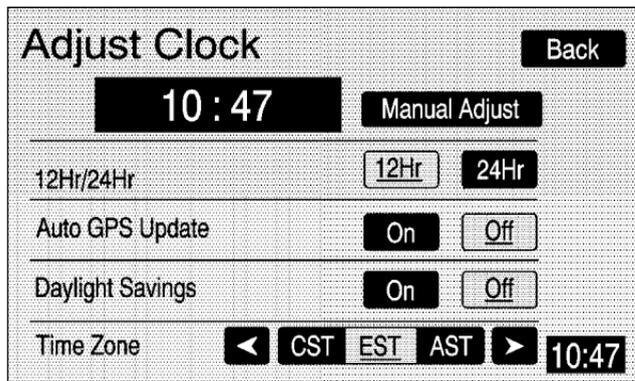
To change the language, the map DVD must be inserted. Then, do the following:

1. Touch the Language screen button. A caution displays.
2. Touch the desired language, Eng (English) or Fr (French), 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 the wrong language is selected, press the CONFIG hard key, then the Language screen button, then select the desired language.

## Clock



To adjust the time displayed and other time options, touch the Clock screen button. The Adjust Clock screen displays.

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:

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:** 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 is set to match the current GPS time. The time is 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 automatically adjusts the time for Daylight Savings. Touch the Off screen button to turn this feature off.

**Time Zone:** Select from eight different time zones: EST (Eastern), AST (Atlantic), NST (Newfoundland), HAST (Hawaii-Aleutian), AKST (Alaska), PST (Pacific), MST (Mountain), and CST (Central). Touch the arrow screen buttons to scroll through the list, until the desired time zone is highlighted.

## 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 the vehicle by using satellite signals, various vehicle signals and map data.

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

The GPS shows the accurate current position of the 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 appears on the map screen.

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

- Signal obstructions are caused by tall buildings, large trucks, tunnels,
- objects are located on top of the instrument panel,
- satellites are being repaired or improved, and cannot send signals.
- 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 interferes with the system's ability to receive GPS signals and causes the system to malfunction. The window might have to be replaced to correct the problem. This would not be covered by the warranty.**

If experiencing a problem, see *If the System Needs Service on page 2-36* and *Problems with Route Guidance on page 2-36*.

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

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

## Problems with Route Guidance

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

- You have not turned onto 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 are occasionally announced.
- It may take a long time to operate automatic rerouting during high-speed driving.
- Automatic rerouting can 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 is given.
- Some routes are not 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 on the map DVD. See *Ordering Map DVDs on page 2-37*.

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

## Ordering Map DVDs

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

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

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

## Database Coverage Explanations

Coverage area depends upon the map detail available. Some areas have greater map detail than others. The navigation system works only as well as the information provided on the map disc. See *Ordering Map DVDs on page 2-37* on how to obtain updated map information.



## Section 3 Navigation Audio System

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## Navigation Audio System

**Notice:** Before adding any sound equipment to the vehicle, such as an audio system, CD player, CB radio, mobile telephone, or two-way radio, make sure that it can be added by checking with your dealer/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 the vehicle's engine, radio, or other systems, and even damage them. The vehicle's systems can interfere with the operation of sound equipment that has been added.

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

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

The audio system is operated using navigation system menus.

### Playing the Radio

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

## Finding a Station

**BAND:** Press to access the band screen and to switch between AM, FM1, FM2, XM1, and XM2, if equipped.

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

 **SEEK** : Press the SEEK up or the down arrow 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 a beep is heard. The radio goes to a station, plays for a few seconds, then goes 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. Two beeps are heard and PSCAN displays, along with the highlighted preset. The radio goes to the next preset station, plays for a few seconds, then goes to the next preset station. Press either SEEK arrow again to stop scanning presets.

The radio only seeks and scans stations with a strong signal that are in the selected band.

## Setting Preset Stations

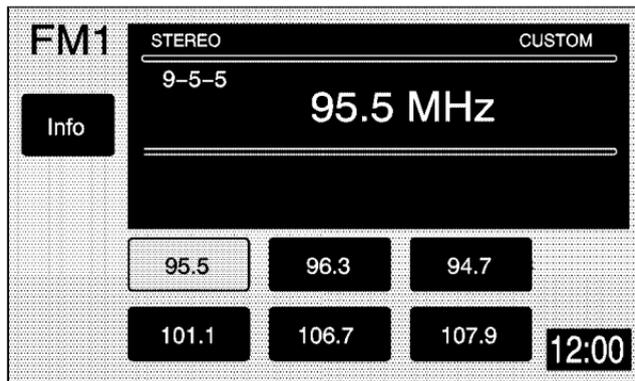
Up to 30 stations, six AM, six FM1, six FM2, six XM1, and six XM2, if equipped, can be programmed using the six screen buttons on the bottom of each band menu.

To set preset stations:

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

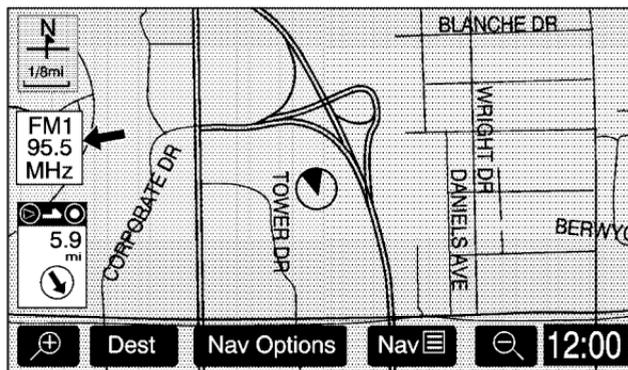
## Band Menu

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



FM1 Source shown, Other Sources similar

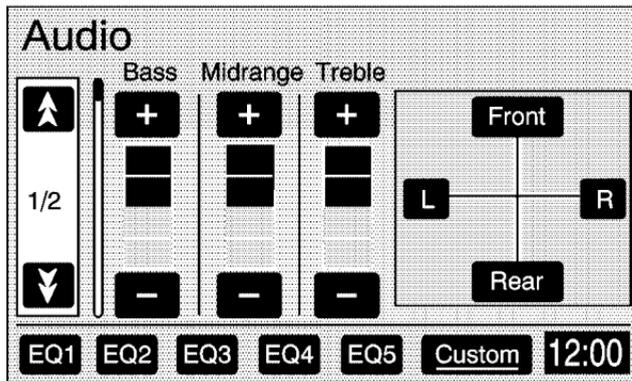
If the radio is on while the navigation system is in use, a smaller band menu appears, located on the left side of the map screen. This audio screen displays the current audio information, such as band and station. Touch the smaller band menu screen button to access the full screen band menu.



FM1 Source shown, Other Sources similar

## Audio Menu

 **(Audio):** Press to display the Audio menu. Several adjustment options are available from this 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 has static, 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 adjusts automatically to make up for road and wind noise while driving, 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. Touch the Off screen button to turn this feature off.

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

After adjustments are made, press the BAND hard key to go back to the preset station menu. Now that the station and the EQ setting is preset, the EQ can be assigned to the preset station. To do this, touch the desired preset station screen button until a beep is heard. The EQ setting is now assigned to that preset until changed.

If at the CD screen before setting an EQ and the CD hard key is pressed, the CD screen displays, and the EQ is set to that screen until changed.

See “Theft-Deterrent Feature”, “Radio Reception”, and antenna information in the Index of the 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:

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

This system relies on receiving specific information from these stations and only works when the information is available. In rare cases, a radio station could broadcast incorrect information that causes 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, appears 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

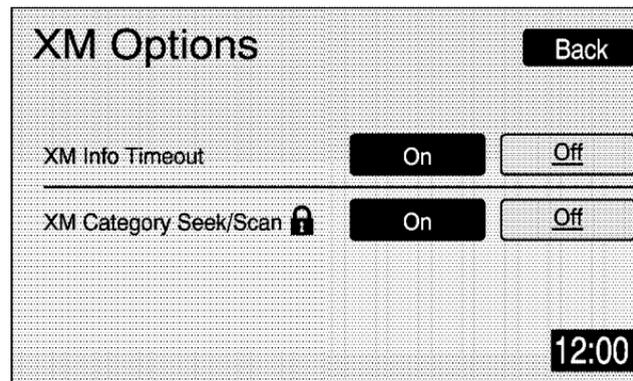
XM™ is a satellite radio service that is based in the 48 contiguous United States and 10 Canadian provinces. XM Satellite Radio has a wide variety of programming and commercial-free music, coast-to-coast, and in digital-quality sound. During your trial or when you subscribe, you will get unlimited access to XM Radio Online for when you are not in the vehicle. A service fee is required to receive the XM service. For more information, contact XM at [xmradio.com](http://xmradio.com) or call 1-800-929-2100 in the U.S. and [xmradio.ca](http://xmradio.ca) or call 1-877-438-9677 in Canada.

Press the BAND key repeatedly until the XM™ selection is reached. When XM™ is active, the channel name and number, song title, and artist displays 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 being sought. This option goes to the first available channel in that category.

### XM™ Radio Messages

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

## CD Player

Insert a CD partway into the CD slot, label side up. The system pulls it in.

There is 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 appears briefly to remind of the delay.

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

If playing a CD the sound quality may be reduced due to CD quality, the method of recording, the quality of the music that has been recorded, and the way the CD 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,

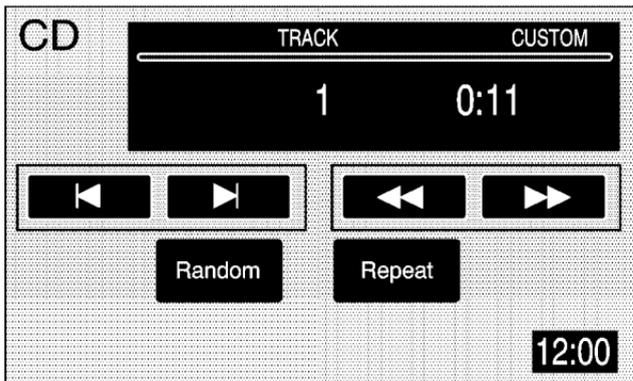
such as cracked, broken, or scratched, the CD will not play properly. If the surface of the CD is soiled, see “Care of Your CDs” in the Index of your vehicle’s owner manual.

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.



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

 **(Eject):** Press this hard key, next to the CD slot, 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 displays so the correct passage can be found. 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 displays so the correct passage can be found. 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 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 returns the disc 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 sounds. 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 inserted in the CD slot. 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 the radio displays an error message, write it down and provide it to your dealer/retailer when reporting the problem.

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