

2003 Cadillac CTS Entertainment and Navigation Supplement

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

Please keep this supplement with the owner's manual in your vehicle, so it will be there if you ever need it while you're on the road. If you sell your vehicle, leave this owner's manual supplement and the owner's manual with the vehicle.

Section 1 Overview

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Overview

Introduction

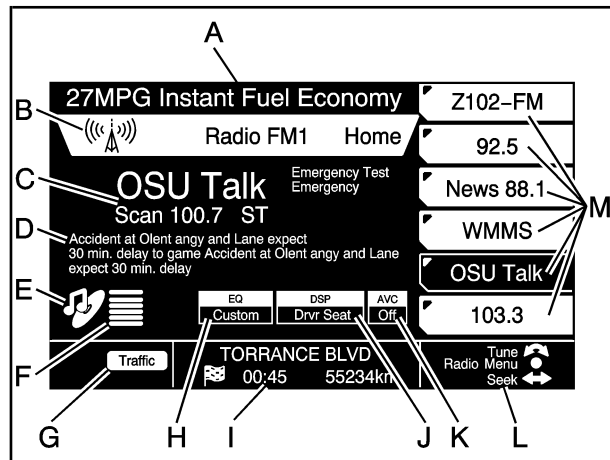


Before you begin to operate this system, read this manual thoroughly to become familiar with it and to understand how the system works.

Use of this system may be restricted in some states. You can check with your state motor vehicle agency.

Screen Features

Below is an example of what you'll see on the display when you access the system's various screens.



- A. Driver Information Center (DIC) Line
- B. Banner
- C. Radio Station Information
- D. Radio Data Systems (RDS) Message
- E. Single CD (Compact Disc) Player Information
- F. CD (Compact Disc) Changer Information
- G. Time and Radio/CD (Compact Disc) Changer Information
- H. Equalizer Information
- I. Navigation System Route Information
- J. Digital Signal Processing (DSP) Information
- K. Automatic Volume Compensation (AVC) Information
- L. TUNE/SEL Knob and SEEK/SCAN Switch Functions
- M. Multi-Function Buttons

Driver Information Center (DIC) Line

The information shown here varies depending upon which system you choose to display. You can change the information using the Vehicle Information menu. See “Driver Information Center (DIC)” in your CTS owner’s manual index for more information.

Banner

The Banner is where you will find the title for each screen or menu. There are some screens that do not have titles, but most do. If the BAND or radio screen is active, you will also see the currently active band. For example, if you see Radio FM1, it means that the FM1 band is active. The presets for that band are displayed at the right of the screen. For more information, see “Multi-Function Buttons” later in this section.

The Banner information cannot be edited or changed.

Radio Station Information

The information shown here tells you which radio station frequency you are tuned to, such as 100.7, as shown in the previous example. If there is any Radio Data Systems (RDS) station identification information being broadcast, that information will be shown also. If you are currently scanning radio stations, Scan will appear on the screen next to the radio station frequency. See *Navigation Audio System on page 3-2* for more information.

The information to the right of the radio station frequency and identification is RDS emergency alert and traffic announcements. You will see Emergency Test whenever the RDS station you are tuned to conducts a test of the local emergency broadcast system. If there is a real emergency, you will see Emergency on the screen and information will be provided regarding the emergency.

Traffic will appear next to the radio station frequency when a station supports the traffic feature. The traffic icon will be displayed in the lower left corner of the screen when traffic announcements are enabled by pressing the TRAF button.

RDS Message

If the RDS Message feature is on and the RDS station that the system is tuned to is broadcasting RDS information, it will be shown here. See *Navigation Audio System on page 3-2* for more information.

The content of the information varies depending on the station, but it may contain the title and artist of the song currently playing or information on traffic problems, such as accidents or construction areas. Stations do not always broadcast messages, so this part of the screen may be blank at times.

Single CD/DVD Player Information

The CD symbol shown indicates that a CD is loaded in the map DVD player located at the top of the screen. If there is a music note next to the CD symbol, a music CD is loaded in the player. If a small square resembling a piece of paper is next to the CD symbol, a DVD with data on it is loaded in the player. If a film symbol is next to the CD symbol, a DVD movie is loaded in the player. See *Navigation Audio System on page 3-2* for more information.

CD Changer Information

The six horizontal lines shown on the screen represent the six different slots of the six-disc CD changer located at the bottom of the screen. If you see a green line, it means that a CD is loaded in that slot. If the line is yellow, it means that the CD in that slot is the selected CD. If the line is gray, it means that no CD is loaded in that slot.

Time and Radio/CD Changer Information

On some vehicles the time is displayed in the lower left corner of the screen. For more information on setting the time, see *Setup Menu on page 1-14*.

The radio station frequency and band, such as FM1 107.9, or the CD changer information, such as Disc 2 Track 5, will be displayed for five seconds, instead of the time, whenever one of the following occurs:

- The radio is turned on and the new screen is not a radio or CD changer main screen,
- the radio station frequency is changed in a non-radio screen, or
- the CD track or disc is changed in a non-CD changer screen.

This information is displayed on the screen and in the Banner while the radio or CD changer screen is active.

When the navigation system is active, the radio/cd information will be displayed for five seconds and then the clock will be displayed. To re-display the radio/cd information for five seconds, press the NAV repeat button. See *Navigation System Overview on page 2-2* for more information.

The time will not be displayed while OnStar® is active.

Equalizer Information

The currently active equalization will be shown here. You can have up to three customized equalizations. See *Navigation Audio System on page 3-2* for more information on programming the equalizer.

Navigation System Route Information

If you have a route planned/calculated in the system, you will see the status of the route shown here. The road you are currently traveling will be displayed along with the time remaining and the distance remaining to your final destination, represented by a black and white checkered flag. In the graphic under *Screen Features on page 1-3*, the vehicle is on Torrance Boulevard and has 45 minutes and 55 234 km remaining until the final destination is reached.

If you are not on the planned route, an arrow indicating the general direction of your destination is shown. The distance remaining to your destination is also shown. This distance may not be accurate because it is based upon a “straight-line” measurement, and the actual roads you travel to your destination may not reflect a straight line. Once you enter the planned route, the actual calculated distance and time remaining to your destination will be shown.

If you leave the planned route, the system will recalculate the route for you automatically if you have turned on the Auto Recalc (Automatic Recalculation) feature. See *Navigation Menu on page 2-10* for more information.

Digital Signal Processing (DSP) Information

The currently selected DSP setting for use with the radio or CD changer will be shown here. There are five DSP choices: Normal, Talk, Driver Seat, Rear Seat and Spacious. For more information on programming the DSP feature, see “Setting the Tone” under *Navigation Audio System on page 3-2*.

Tune/Sel (Select) Knob and Seek/Scan Switch Functions

This area of the screen tells you what functions are available for the TUNE/SEL knob and SEEK/SCAN switch for the currently active screen. Only the highlighted functions are available for use, and the functions vary from screen to screen. The curved double arrow function is associated with the TUNE/SEL knob. The solid dot function is associated with pressing the TUNE/SEL knob. The double-headed arrow function is associated with the SEEK/SCAN switch.

For example, on the Radio screen shown previously, you can tune to different stations manually by turning the TUNE/SEL knob. To access the FM Menu, you press the knob once. To seek up or down, you press the right or left arrow on the SEEK/SCAN switch. To scan stations up or down, press and hold the SEEK/SCAN switch until Scan appears on the display. Radio also appears on the display as the title of the currently active screen.

AVC (Automatic Volume Compensation) Information

This area of the screen is used to indicate if AVC is on or off. See “Setting the Tone” in *Navigation Audio System on page 3-2* for more information.

Multi-Function Buttons

These buttons are called multi-function buttons because the function of each button changes depending upon which screen is active. The multi-function buttons with the dot on them, located to the right of the display, control the six prompts at the right of the screen. When the Radio screen is active as shown in the previous example, these buttons represent the programmed preset radio stations for each band (AM, FM1, FM2, XM1, XM2), but when Navigation is active, these buttons represent other functions. See *Navigation Menu on page 2-10* for more information.

If you see a triangle or carat in the upper left corner of the prompt, it means that the multi-function button is programmable. Once the function you want is active, press and hold the button until you hear a beep. The new function will be programmed and displayed as the prompt for that multi-function button. For more information on programming the multi-function buttons for preset radio stations, see “Setting Preset Stations” under *Navigation Audio System on page 3-2*.

Main Menu

The Main Menu provides a brief overview of the available functions of the Navigation System as a whole. The information that follows describes the menu items in detail.

To access the Main Menu, press the MAIN button located to the lower left of the display. The following menu items will appear on the screen:

- DVD
- Radio
- CD
- Audio
- Navigation

The following multi-function buttons are also available:

- Browser
- Vehicle Info (Information)
- Feat Prog (Feature Programming)
- Voice Memo
- Setup
- Address Book

DVD

If you select this menu item while the DVD movie is loaded, the DVD will start playing. See *CD/DVD Player on page 3-17* for more information.

Radio

If you select this menu item, the Radio screen will be displayed. You can also access the Radio screen by pressing the BAND button located to the left of the display. See *Navigation Audio System on page 3-2* for more information.

CD

If you select this menu item, the CD changer screen will be displayed. You can also access the CD changer screen by pressing the Disc button located to the left of the display. If a CD is loaded in CD changer, it will begin playing track one. See “Playing a CD” under *Navigation Audio System on page 3-2* for more information.

Audio

If you select this menu item, the Audio screen will be displayed. You can also access the Audio screen by pressing the Audio button located to the left of the display. Using this screen, you can adjust the various sound levels, such as bass and treble. See “Setting the Tone” under *Navigation Audio System on page 3-2* for more information.

Navigation

If you select this menu item, the Navi System Startup screen will be displayed if you have not previously accessed the Navigation System since you turned on the ignition. You must press Agree in order to continue using the Navigation System.

If you have previously accessed the Navigation System since turning the ignition on, the current map will be displayed.

You can also access the navigation screen by pressing the NAV button located to the left of the display. See *Navigation System Overview on page 2-2* for more information.

Browser

The Browser is a feature that allows you to view HTML files (3.2 or newer) stored on a DVD, DVD-R or CD ROM, but not a CD-R. For more information on this feature, see “Browser” listed later in this section.

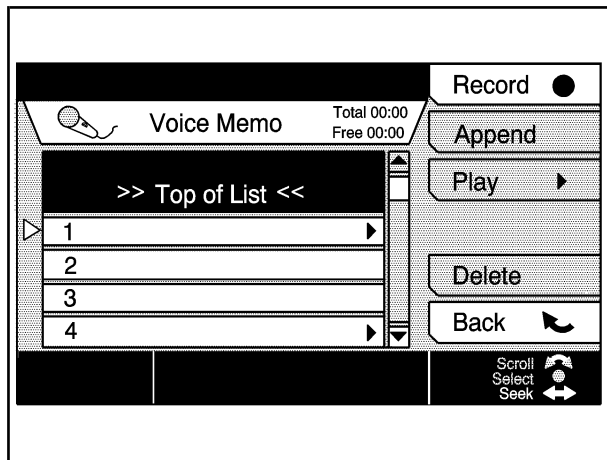
Vehicle Info (Information)

The Vehicle Information menu provides the status of several of your vehicle's systems. You can also access this menu by pressing the INFO button located to the left of the display. For more information, see “Driver Information Center (DIC)” in your CTS owner's manual index.

Feat Prog (Feature Programming)

The Feature Programming menu is where you can customize the programmable features on your vehicle to your preferences. For more information, see “DIC Vehicle Personalization” in your CTS owner's manual index.

Voice Memo (Memorandum)



The Voice Memo screen allows you to record and playback up to 10 personalized messages.

You can perform the following using the Voice Memo multi-function buttons:

- Record
- Append
- Play
- Delete

Turn the TUNE/SEL knob to scroll through any previously recorded messages. Press the knob to select a message.

Record ●

Press this multi-function button to begin recording a message. It will start recording when you begin speaking. It will cancel the recording if you do not speak within 10 seconds.

Append

Press this multi-function button to add to a previously recorded message. To use this feature do the following:

1. Turn the TUNE/SEL knob until the message you want to add to is highlighted.
2. Press the Append multi-function button. You can then begin recording the additional information.

Play ►

Press this multi-function button to play a previously recorded message. Play is also used to resume playback of a message after it has been paused. While the message is playing, the following multi-function buttons will be available:

- Skip Fwd
- Skip Back
- Pause
- Stop

Skip Fwd (Skip Forward): Press this multi-function button to fast forward through the message.

Skip Back: Press this multi-function button to reverse quickly through the message.

Pause: Press this multi-function button to stop the playback of the message. The system will remember where the message was paused and will resume play at the same location when the Play multi-function button is pressed.

Stop: Press this multi-function button to stop the playback of a message.

Delete

Press this multi-function button to delete previously recorded messages.

Setup

The Setup Menu is used to adjust the basic features of the system to your preference. See “Setup Menu” later in this section for more information.

Address Book

If you select this multi-function button, the Address Book screen will be displayed. You can store names, phone numbers and addresses for future use in the system using this screen.

All information is stored alphabetically. To access previously stored information, do the following:

1. Turn the TUNE/SEL knob until you reach the letter grouping that contains the first letter of the person's last name.
2. Once the grouping is highlighted on the screen, press the TUNE/SEL knob once. All the information stored under that grouping will be listed.
3. Scroll to the name you want and press the TUNE/SEL knob to select it. The information you selected will be displayed on the screen.

New information can be entered manually or transferred from a Palm™ hand-held computing device. See "Receive" later in this section for more information.

The following multi-function buttons are also available from the Address Book screen:

- New Entry
- Delete All

New Entry

To enter information manually to the Address Book, press the New Entry multi-function button. Once the New Entry screen appears, do the following:

1. Turn the TUNE/SEL knob to scroll to the desired entry field.
2. Turn the TUNE/SEL knob to select the first letter required. Press the knob once to set the letter and advance the cursor.
3. Continue entering letters and/or numbers until the entry is complete.
4. Press the Ok multi-function button to return to the new entry screen.
5. Turn the TUNE/SEL knob to scroll to the next field.
6. Press the TUNE/SEL knob once to enter this field's information.
7. Repeat the above steps until all the desired fields are entered.
8. Press the Done multi-function button to complete the entry.

You can enter the following information:

- Last Name
- First Name
- Title
- Company
- Work (Phone Number)
- Home (Phone Number)
- Fax (Phone Number)
- Other (Cell Phone Number, Pager, etc.)
- Other
- Address
- City
- State
- Zip Code
- Country

The following multi-function buttons are available in the New Entry screen:

Receive: If you want to transfer information stored in a Palm hand-held computing device, press the Receive multi-function button. The Beam screen will be displayed, and you will be prompted to transfer the data. See *Navigation Menu on page 2-10* for more information.

Edit: If you want to change any of the stored information, you can use the Edit multi-function button. Use the following steps to edit information stored in the address book:

1. Perform Steps 1 and 2 for accessing stored information listed previously under “Address Book.”
2. Press the Edit multi-function button once the name you want is highlighted.
3. Use the TUNE/SEL knob to change the stored information. Press the Done multi-function button when you are finished with each field.
4. Press the Back multi-function button to exit the Edit menu.

Delete All

If you select Delete All from the Address Book screen, the system will ask you if you want to delete all the stored information in the address book. If you press and hold the Yes multi-function button until it beeps, all stored information will be deleted from the Address Book. If you press the No multi-function button, you will return to the Address Book screen and the information will not be deleted.

Setup Menu

The Setup menu allows you to adjust the basic features of the Navigation System screen. To access the Setup menu, you must first enter the system's Main Menu. To access the Setup Menu, do the following:

1. Press the MAIN button located below the PWR/VOL knob to the lower left of the navigation screen.
2. Once the Main Menu appears on the screen, press the multi-function button located next to the Setup prompt.

When Setup is selected from the Main Menu, the following menu appears:

- Measurement Unit
- Display
- Voice Volume
- Clock
- Language
- Prog SWC
- Veh Position

Measurement Unit

This menu item allows you to choose the units of measurement for the vehicle's systems. Press the TUNE/SEL knob once, then the following menu will appear on the screen:

- Mile/feet (Mi/ft)
- Mile/yard (Mi/yd)
- Kilometer/meter (Km/m)

Turn the TUNE/SEL knob to scroll through the choices. Once your choice is highlighted, press the knob once to select it. An X will appear in the box next to the item to show it's been selected. Only one item can be selected.

Once you set your choice, all vehicle systems will change to those units. For example, if you choose kilometers, the climate control panel will show degrees Celsius instead of degrees Fahrenheit.

Display

This menu item allows you to adjust the appearance of the screen. Only one mode can be selected at a time.

- Auto
- Day
- Night

If you select Auto mode, the screen will automatically adjust the display for day or night, depending upon the lighting conditions.

If you select Day mode, the screen will be in the mode best suited for daylight conditions. The displays on the screen are usually brighter with a lighter background so that you can see them better during the brighter daylight hours.

If you select Night mode, the screen will be in the mode best suited for nighttime conditions. The displays on the screen are usually dimmer with a darker background so that you can see them better during the darker nighttime hours.

To select one of these modes, press the button to the right of the screen with the dot on it that corresponds to the prompt. An X will appear in the box next to it to show it has been selected.

You can select day or night mode regardless of the lighting conditions.

In addition the contrast and brightness may be adjusted as desired.

To adjust contrast or brightness press the multi-function button that corresponds to the prompt at the right of the screen. Then turn the TUNE/SEL knob to increase or decrease the contrast or brightness. The bar graph on the screen will reflect the turning of the TUNE/SEL knob.

Voice Volume

This menu item allows you to turn on and off navigation voice prompts and to adjust the volume level of all the voice prompts you receive from the system. To learn how to adjust the voice volume, see “Interrupt Volume” under *Navigation Audio System on page 3-2*.

Clock

To set the time on the radio clock, do the following:

1. Press the MAIN button located to the lower left of the display to access the system’s Main Menu.
2. Press the multi-function button next to the Setup prompt to access the Setup menu.
3. Once the Setup menu is displayed, press the multi-function button next to the Clock prompt.
See the information following this list for a description of Clock menu items.
4. Set the time using one of the menu items listed.

Hr (Hour) +/-: Press the multi-function button next to Hr+ or Hr- to manually advance or reverse the hour on the clock.

Min (Minute) +/-: Press the multi-function button next to Min+ or Min- to manually advance or reverse the minutes on the clock.

Auto GPS (Global Positioning System) Update: This menu item allows you to use the Navigation System's GPS to set the time automatically. The system acquires the information from the satellite used for the navigation system.

Daylight Savings Time: This menu item allows you to observe daylight savings time if you wish. When daylight savings time is turned on, the hour will advance by one. An X will appear in the box next to the menu item to show that the feature has been turned on.

Select Time Zone: This menu item allows you to choose the correct time based upon the time zone that you live in. The following submenu appears when this menu item is selected:

- Atlantic
- Eastern

- Central
- Mountain
- Pacific
- Alaska
- Hawaii

You can scroll through the submenu by turning the TUNE/SEL knob. Press the knob to set your selection. Once selected, the current time for that time zone will appear on the display and an X will appear in the box next to the menu item to show that its been selected. Only one time zone can be selected at a time.

12h/24h (12 hour/24 hour): This menu item allows you to choose between a 12-hour clock and 24-hour clock, or military time.

Press the TUNE/SEL knob to switch back and forth between the two choices. Once your selection is made, press the multi-function button next to the OK prompt to set your choice. Then press the multi-function button next to the Back prompt to exit the Clock menu.

Language

This menu item allows you to select the language that you prefer for the information on the display, voice recognition and voice prompts. English is the default language, but you may also choose French or Spanish.

To select a language, press the multi-function button that is next to the language you prefer. An X will appear in the box next to the language you chose to show that your selection is complete, and all information on the display will appear in the selected language.

Your vehicle will have three pre-programmed language choices upon delivery at the dealership. The three languages vary depending upon region.

Prog SWC (Programmable Steering Wheel Controls)

This menu item allows you to program steering wheel controls 1, 2, 3 and 4. See “Reconfigurable Steering Wheel Controls (SWC)” in your CTS owner’s manual index for more information.

Veh (Vehicle) Position

This menu item is used to correct any error in your vehicle’s position or direction. Use the scroll arrows to adjust the vehicle’s position. After adjusting, the Set multi-function button must be pressed. See “Map Scroll” under *Navigation Menu on page 2-10* for more information.

This menu item is only available if the map DVD is loaded and the vehicle is in PARK (P) for an automatic transmission, or the parking brake is engaged and the vehicle speed is less than 5 mph (8 km/h) for a manual transmission.

Browser

If you have a disc containing HTML files (3.2 or newer), you will be able to use this function to display them on the navigation screen. The files will only be able to be accessed and viewed. No input will be allowed using this system.

To access the Browser, do the following:

1. Press the MAIN button located to the lower left of the screen.
2. Once the Main Menu is displayed, press the multi-function button next to the Browser prompt.

The Browser will appear on the screen.

You must have a DVD, DVD-R or CD ROM with HTML files on it loaded in the player to access the Browser. If the file has an index labeled index.htm, it will open automatically. For files with any other kind of index, you will need to enter the name of the file manually using the alpha-numeric bar. See *Navigation System Overview on page 2-2* for more information.

Once the file has been opened, you may use the TUNE/SEL knob to move to the various links. Once you have reached the end of the screen, you will then be able to move up and down.

The six multi-function buttons located to the right of the display allow you to perform the following functions:



(Back): Press this button to go back to the previous page.



(Scroll Up): Press this button to scroll upward on the currently active page.



(Scroll Down): Press this button to scroll down on the currently active page.



(Switch Frame): Press this button to switch from one frame to another if the page shows frames.



(Menu Buttons): Press this to change the display and turn the menu buttons for the Browser on and off.

If this button is pressed, the Browser menu buttons (listed following) are displayed at the bottom of the screen. These buttons may be selected using the TUNE/SEL knob.

 **(Exit):** Press this button to exit the Browser.

To select a menu button, turn the TUNE/SEL knob until the menu button you want is highlighted. Then press the knob twice to select and execute the function. The menu buttons for the Browser, which read from left to right, have the following functions:

 **Back:** Use this menu button to go back to the previous page.

 **Forward:** Use this menu button to go to the next page.

 **Reload:** Use this menu button to read the currently active page again.

 **Stop:** Use this menu button to stop reading a file.

 **History:** Use this menu button to display the file's history.

 **Jump:** Use this menu button to change from one stored web page to another using the URL (Uniform Resource Locator), or the name of the web page, of the new page you wish to view.

Personal Choice Controls

This feature allows up to two drivers to store and recall personal settings for the audio and Navigation systems. Settings that can be stored and recalled include the following:

- Navigation settings such as Day and Night screen modes or Route Planning Method.
- Audio settings such as preset stations and equalization.

Each time a driver chooses or changes audio or Navigation System settings, the changes will automatically be stored by the system.

To recall these settings, press the unlock button on the remote keyless entry transmitter or press the memory button (1 or 2) on the driver's door armrest.

OnStar[®] System

When using the OnStar[®] system, the audio system will be muted. The volume of the OnStar[®] call can be adjusted using the steering wheel controls. See "OnStar[®] System" and "Reconfigurable Steering Wheel Controls (SWC)" in your CTS owner's manual index for more information.



 NOTES

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Section 2 Features and Controls

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Features and Controls

Navigation System Overview



With the Navigation System, you can do the following:

- Plan a trip and provide turn-by-turn route and map guidance with voice prompts,
- select a destination from various areas and choices (i.e. street addresses, intersections, destinations stored in memory, points of interest, etc.), and
- receive broadcast announcements on traffic and emergency alert communications.

The Navigation System is designed to assist you while driving, but it is possible that the information in the system may not always be complete or accurate. Road conditions, such as no turns, detours and construction zones, change frequently. It is important to consider whether or not you can follow the directions given by the system for the current conditions.

The Navigation System display and controls are located in the center of the instrument panel. In this section, you will learn more about using this system.

Navigation System Controls

Use the following controls and screens to operate the Navigation System.

PWR (Power)/VOL (Volume) Knob

Press the PWR/VOL knob located to the lower left of the screen to turn the system on or off. Turn the knob to increase or decrease the volume level of the audio system or the volume of a voice prompt while the prompt is playing. See *Navigation Audio System on page 3-2* for more information.

NAV (Navigation) Button

Press this button to go to the Navi (Navigation) Menu screen.

The map screen that appears will show the following information if no route has been planned:

- Vehicle position,
- the North, heading up, or Birdview™ symbol (compass symbol) in the upper left of the screen,
- the audio source (FM1, CD, etc.) or clock in the lower left corner of the screen,
- the map scale, and
- the GPS icon.

If a route has been planned, the first press of the NAV button will also display the following:

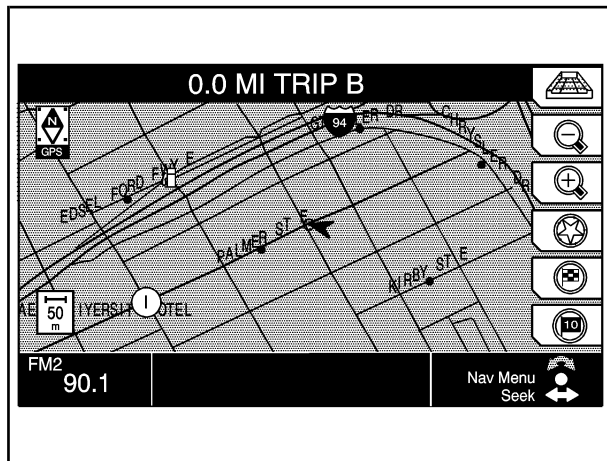
- The number of miles/km that remain until you reach your final destination.
- The estimated time it should take to reach your destination.
- The highlighted destination or turn-by-turn instructions.

Each time the NAV button is pressed, the multi-function descriptions at the right of the display will “expand” to show a detailed description of each one. After approximately 10 seconds, the prompts will return to their normal appearance.

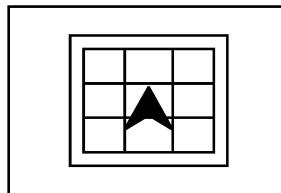
NAV (Navigation) Repeat Button

NAV : Press this button, located to the left of the screen, to hear a guidance prompt. A route must already be planned for this to work. This button will also restart a paused route. You can also press this button to display the band and radio station frequency while you are in navigation mode.

Navigation Multi-Function Buttons

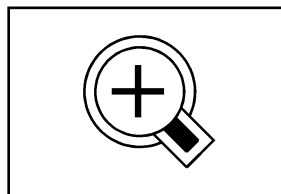


In addition to the buttons to the left of the navigation screen, there are six multi-function buttons located to the right of the screen. Each one has a dot on it. Use these buttons to select the following prompts:

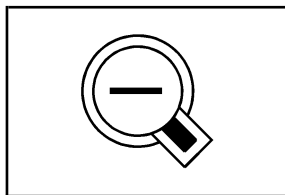


This multi-function button allows you to switch between a “north up,” “heading up” or “bird’s eye view” of the map.

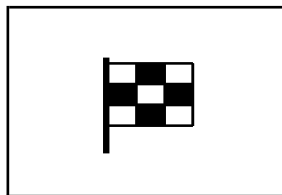
For example, if the “north up” view of the map is active, this multi-function button allows you to change to the “bird’s eye view” of the map and vice-versa.



Press the multi-function button next to the Zoom In prompt to get a closer look at the currently displayed map.



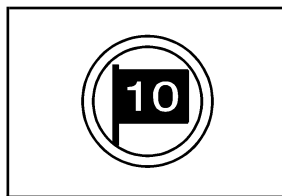
Press the multi-function button next to the Zoom Out prompt to see a larger scale of the currently displayed map.



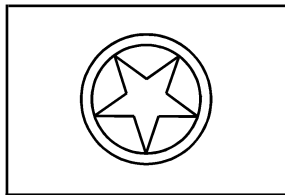
This multi-function button takes you to the Enter Dest (Destination) screen.

You can also view your highlighted route, waypoints if any have been set or the vehicle trail if you have turned the tracking feature on.

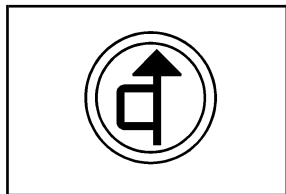
If you zoom out of the currently displayed map and the tracking feature is on, you will not be able to view the trail of your vehicle on the larger scale map. See *Navigation Menu on page 2-10* for more information.



This multi-function button allows you to view a list of the last 10 destinations to which you have traveled.

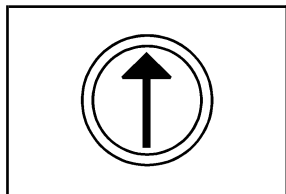


This multi-function button allows you to view a list of all points of interest close to the area in which you are traveling.



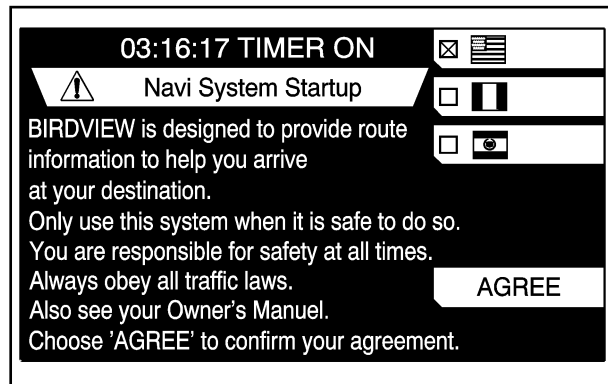
This multi-function button allows you to detour around a problem area while you are traveling on a planned route.

You can choose the length of the detour. If you have a planned route and would like to see if there is a possible option to your current heading, you may also use this multi-function button to activate the auto-reroute feature. The system may then be able to give you alternate routes to the one currently planned.



This multi-function button instructs the system to begin planning a route for you based on the criteria you have entered into the system.

Navi (Navigation) System Startup Screen



This screen appears the first time you access the Navigation system. You must press the Agree multi-function button to use the navigation portion of the system.

You can also change the language used by the system. To change the language, press the multi-function button associated with the desired language. An X will appear next to your choice, and all system related language will change. See *Setup Menu on page 1-14* for more information.

Alpha-Numeric Bar

The letters, symbols and punctuation available to you are displayed on the alpha-numeric bar. The bar will automatically be available to you whenever the system needs information from you. You can cycle through the list of characters by turning the TUNE/SEL knob located to the lower right of the screen. To set your selection, press the knob once.

To enter a space between characters or words, turn the TUNE/SEL knob past the alpha characters and numerals until you reach the space symbol. It is a dark rectangle.

To make your name selections easier, the system will only allow you to select a character that can follow the last one you selected. For example, if you enter Z, you wouldn't be allowed to follow it with T. The system will only display the available characters.

The numbers available to you are at the end of the alpha-numeric bar. Turn the TUNE/SEL knob clockwise past the alpha characters to reach the numbers. You can cycle through the list turning the TUNE/SEL knob and make selections by pressing the knob once.

If you select an incorrect character, press the multi-function button next to the Back prompt.

If you are unsuccessful when inputting a name or word, it may need to be selected differently. It is possible that the map database may not contain that information. See *Database Coverage Explanations on page 2-34* for more information.

Using the Navigation System

This part describes the basic information you will need to operate the Navigation System.

To plan a trip with a single destination, press the NAV button. Then press the Enter Destination multi-function button. Every trip will have a destination and can also have waypoints (stops) before you reach the final destination. There are several ways to plan a trip (destination). Those ways are described in the following pages.

The Navigation System screen shows a number of symbols that offer information about a variety of topics.

Use the buttons located on each side of the screen, and the TUNE/SEL knob, located to the lower right of the screen to operate the system.

Once the vehicle is shifted into gear, various functions will be disabled to limit driver distraction.

Maps

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

Regional and Interstate Maps

The maps are stored on 1 DVD for the United States and Canada.

To load the map DVD, do the following:

1. Turn the ignition to ON.
2. Insert the DVD, label side up, partway into the DVD ROM player located above the Navigation System screen.

Load only one DVD at a time.

It will take approximately 20 seconds to initialize the DVD data.

If you experience a problem with the DVD, check the following:

- Did you insert the DVD label side up?
- Are you using only one DVD?

Once the DVD is loaded correctly, you will see the following choices on the Navi System Startup screen:

- Select a language (the default language is English)
- Agree

You can change the language from English to Spanish or French, or you can select Agree to go to the navigation screen. See *Setup Menu on page 1-14* for more information. The map will appear with your current vehicle position on the map.

If your current vehicle position is incorrect on the map, see “Map Scroll” later in this section. See Plan a Route in *Navigation Menu on page 2-10* for more information on planning routes.

Map Database

The map database shows the current map contained in the player and the current vehicle location on the map.

Map Adjustments

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

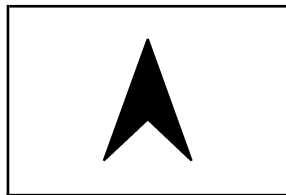
To view a larger or smaller scale of the map, press the multi-function button next to the Zoom In or Zoom Out prompts at the right of the screen. See “Zoom In/Out” listed previously in this section for more information on these prompts.

Map Scales

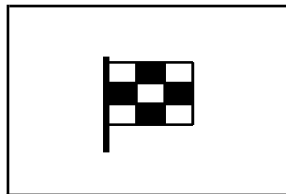
The scale of a map can range from 1/64 of a mile (25 km) to 80 miles (128 km).

Symbols

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

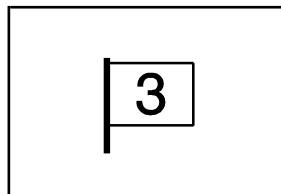


Your current vehicle location and direction are shown as this symbol.



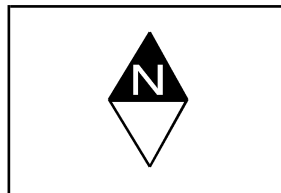
This symbol will appear when a destination has been set. Calculation of a route is not required.

See Plan a Route in *Navigation Menu on page 2-10* for more information on planning routes.



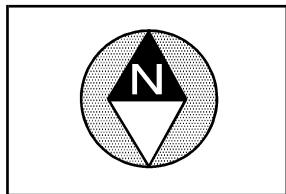
When a waypoint has been entered, you will see this symbol on the map.

The number on the flag indicates the sequence of the waypoints on the route. For more information on waypoints, see “Creating a Trip with Waypoints” under *Navigation Menu on page 2-10*.



This symbol indicates the map view is North up.

Regardless of the direction of vehicle travel, North always will be up on the screen.



This symbol indicates the map view is vehicle up.

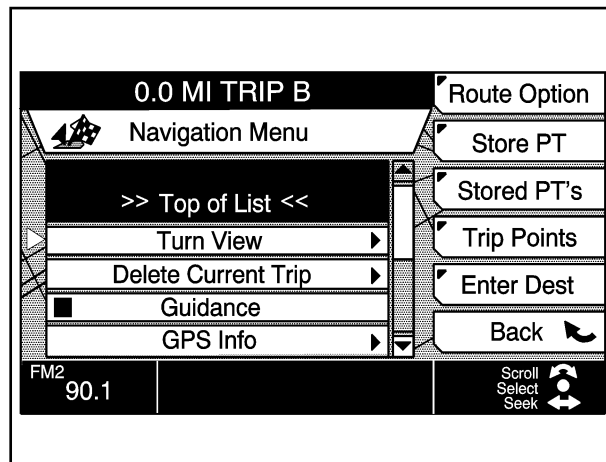
The shaded diamond with the “N” indicates North. Select this prompt to see your vehicle always traveling in an up direction on the screen regardless of compass direction.

A red stick pin appears along a highlighted route of a map screen. It shows a place where turn guidance is provided.

A blue stick pin appears at the starting point of a highlighted route on a map screen if a route calculation is executed when the vehicle is more than 650 feet (200 meters) away from the starting point of the highlighted route. The blue stick pin means that the vehicle is in an area that the roads are not fully digitized and could be incorrect. The pin will disappear once the vehicle is on the highlighted route.

Navigation Menu

While in the Navigation map screen, press the TUNE/SEL knob and the Navigation Menu will appear. From this menu you will be able to choose from an itemized list of options or use the multi-function buttons to make adjustments to the system and plan routes.



You will be able to choose from the following menu items:

- Turn View
- Delete Current Trip
- Guidance
- GPS Info
- Voice Volume
- Map Scroll
- Map Icons
- Tracking

These multi-function buttons are also available:

- Route Option
- Store PT
- Stored PTs
- Trip Points
- Enter Dest
- Back

Any menu items and multi-function buttons shown here or under the Enter Dest (Destination) Menu listed later in this section may be “mixed and matched” to help you personalize your system. See “Navigation Multi-Function Buttons” for more information.

To change a menu item to a multi-function button do the following:

1. Scroll to the menu item using the TUNE/SEL knob to highlight it.
2. Press and hold the multi-function button you wish it to replace for two seconds.

The menu item will now be a multi-function button and will remain that way unless you choose to change it again.

Back is the only multi-function button that cannot be changed or moved.

Turn View

Select this option to decide which view of the map you will see as your trip progresses. The following multi-function buttons will become available when you choose Turn View from the list:

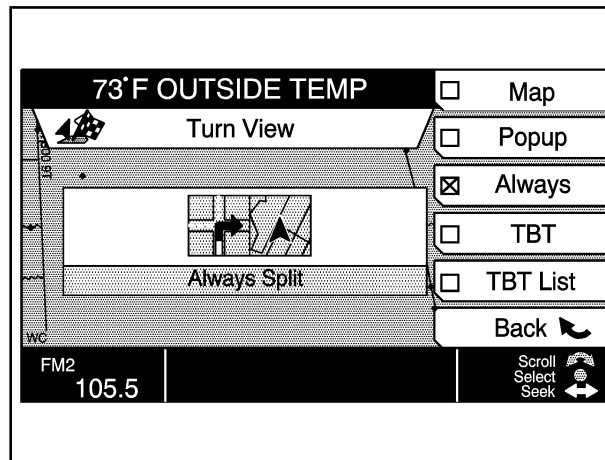
Map

Press this button to display the street map with the route of travel highlighted. You will see the vehicle on the map as a pointed arrow. See *Symbols on page 2-9* for more information. You will also see the progress of route travel on the map as you follow the highlighted route. The map will display street names to show that the system knows where your vehicle is.

Popup

Press this button to see the regular view of the map and to have the next turn, represented by an arrow pointing in the direction of the turn, “popup” as you approach it.

Always



Always Split

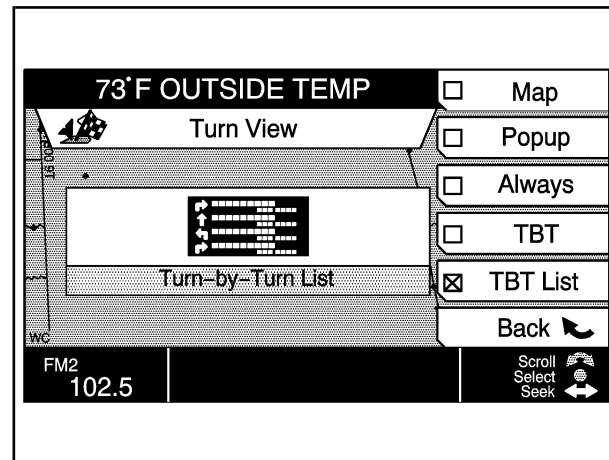
Press this button to see the regular view of the map and the popup view on the screen together at all times.

TBT (Turn by Turn)

Press this button to see the route as a series of turns. No map view will be offered with this option. Instead, the entire intersection will be displayed, along with the next maneuver that you will be required to perform.

The system will also supply street names when available. The display will change once the next maneuver is within a short distance.

TBT (Turn by Turn) List



Turn-By-Turn (TBT) List

Press this button to see all the turns in the planned route listed in order on the screen. There will be an arrow to the left of each turn indicating the direction of the turn.

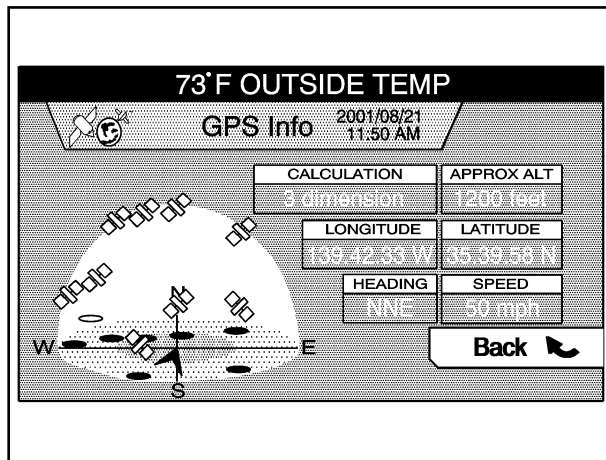
Delete Current Trip

Select this option to delete the current trip. The system will ask you to confirm your choice by selecting Yes or No. Press the Yes multi-function button to delete the current trip or press the No multi-function button to continue with the planned route.

Guidance

Use this option to turn guidance on and off. If the guidance is off, the NAV (navigation) Repeat button can also be used turn the guidance on.

GPS Info (Information)



Select GPS Info to see the latest GPS information available for your vehicle. This can include latitude, longitude, heading, etc. The last direction the vehicle was heading in while in motion will be displayed.

Voice Volume

Select Voice Volume to adjust the navigation and voice recognition prompt volume level for the system. Turn the TUNE/SEL knob to make the volume louder or softer. Each time you stop turning the knob, the system will respond with either “Louder” or “Softer” to provide you with an example of the new volume level. You can also turn the navigation prompts on and off using the NAV button. The NAV button will turn the navigation voice prompts on or off, but it will not affect the voice recognition prompts.

Map Scroll

Select Map Scroll to move and adjust the map view. This view can also be used to enter destinations, waypoints and stored points.

While in Map Scroll, turn the TUNE/SEL knob to select the direction to move the map. Then, press the TUNE/SEL knob to move the map in that direction. The map will continue to move as long as the TUNE/SEL knob is pressed. See “Map Entry” under “Enter Dest (Destination)” later in this section for more information.

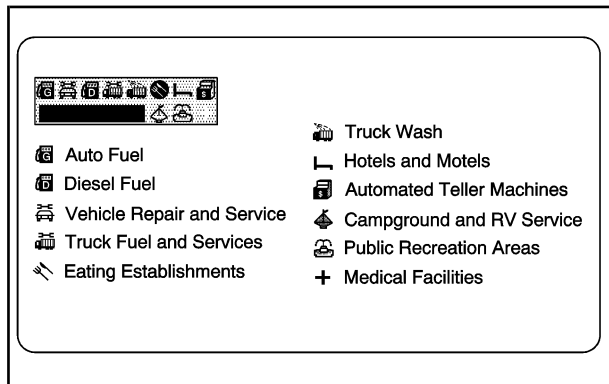
Map Icons

You can choose which icons you want to appear on the map. These icons appear on the map at the location of the POI (point of interest). To set the icons, do the following:

1. Turn the TUNE/SEL knob until the icon is highlighted.
2. Press the TUNE/SEL knob to select the icon. When the icon is selected, an X will appear in the box next to the icon.

If you prefer to see all the icons, press the Set All multi-function button. This will select all five icons. You can de-select all previously chosen icons by pressing the Clear All multi-function button. De-selecting all the icons means that no icons will appear on the screen while you are traveling on a planned route.

Interstate America®: This feature allows the system to inform you of the services available at each exit on a major highway (i.e. restaurants, gas stations, lodging, etc.).



Once you have a route planned and begin to travel on an interstate, a box with a series of icons will appear in the upper left corner of the screen. These icons indicate what services are available at the next exit. A smaller Interstate America icon will appear on the map next to the referenced exit.

Tracking

Select Tracking to leave a “trail” to show where you have been on the map. Your path will be represented by bubbles that appear three-dimensional on the screen.

Tracking can be useful for the following reasons:

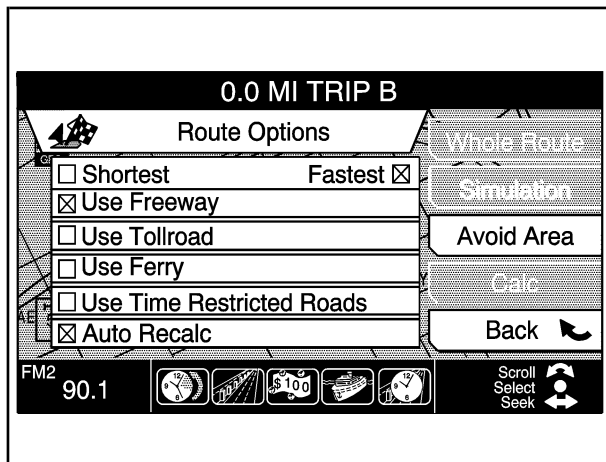
- When tracking is activated, you can see where you have already traveled.
- When you wish to return to your point of origin without planning another route, you can follow the tracking bubbles back to where you started.
- When you drive into an area with few digitized roads listed in the DVD database, you can follow the tracking bubbles back to a digitized area.

To clear the trail left by tracking, turn off Tracking by pressing the TUNE/SEL knob. This will erase the bubbles. You may then choose to turn Tracking back on again, in which case your trail will begin from your current location.

The maximum length of a tracking trail is 50 miles (80 km). Once you exceed this number, the bubbles marking the beginning of your route begin to disappear as new ones are created at the end of your trail.

Navigation Menu Multi-Function Buttons

Route Option



The five icons that appear at the bottom of the screen indicate which route options have been selected. These same icons appear on the navigation screen when a calculation is in process.

When you press the Route Option multi-function button, you are able to select from the following options on the route calculation methods list:

Shortest/Fastest Route: The system will calculate the shortest route or fastest route possible. The system determines the shortest route based on the shortest distance. The fastest route is the route with the lowest estimated travel time.

Use Freeway: The system will calculate the best route using the freeways wherever possible. This selection will not always offer the shortest distance or time to your destination.

Use Tollroad: The system will calculate the best route using tollroads wherever possible.

Use Ferry: The system will calculate the best route possible using ferries wherever possible.

Use Time Restricted Roads: The system will calculate the best route possible using roads that are time restricted. These include any roads where use is prohibited by the time of day you are traveling (i.e. no left turns before 3:00 p.m., etc.).

Auto Recalc (Automatic Recalculation): If you have selected this option and leave the original calculated route, the system will automatically calculate a new route without any further input from the driver.

To choose from the list of options, use the TUNE/SEL knob. You may select all or none of the options listed as route calculation options.

Under Route Option Menu you will also be able to use the following multi-function buttons:

Avoid Area: The system will allow you to choose an area you want to avoid traveling through. When you press this button, a map showing the travel area will be displayed, along with arrows that will allow you to scroll on the map to the area you want to avoid. See “Map Scroll” listed previously in this section for more information.

Before you set the area to avoid, you may want to select the FWY (Freeway) multi-function button so the system will allow you to take the freeway through the avoidance area. If you don't select it first, the system will avoid the chosen area entirely.

When you near the area you want to avoid, the voice prompt will come on with this message, “You are approaching your avoidance area.” This allows you to decide if you still want to avoid the area or cancel the command.

You can enter up to 10 avoidance areas.

Calc (Calculate): The system will begin calculating the chosen route using the route options you have selected.

Back: This button returns you to the previous screen.

Store PT (Point)

Press the Store PT button to save the current location to a stored point in the system memory.

A total of 60 points can be stored. The first stored point is reserved for your home location. If all 60 points are entered, the system will notify you that there is no available storage space left in memory. A stored point must then be removed before another can be stored.

Stored PTs (Points)

Press the Stored PTs button to view the list of all points. The list will show points stored, reserved and empty points. The first stored point will be considered Home. You must store the location you would like to be Home.

The list will also display the following multi-function button options:

More: Use this button to scroll the complete name of a stored point.

Sort: This button allows you to sort your stored points into categories. The following are the five available categories:

- Personal
- Business
- Leisure
- Special
- Uncategorized Point

Once you have categorized the store point, press the Back button to return to the previous menu. Each categorized stored point will have an icon in front of it and will be highlighted a different color than other marked points on the list. You may then press one of the multi-function buttons to sort your stored points by that category.

Map: This button takes you to the map showing the location of the selected stored point.

Lock: This button allows you to lock the selected stored point so it cannot be accidentally deleted.

Delete All: This button deletes all stored points which haven't been locked in.

Back: This button always returns you to the previous screen.

Use the TUNE/SEL knob to move to the stored point you want to edit. Once you make your selection, you will be able to do the following:

Edit Name: Select this option to edit the name of a stored point. The alpha-numeric bar will appear at the bottom of the screen to allow you to input the new name or address. See “Alpha-numeric Bar” under *Navigation System Overview on page 2-2* for more information.

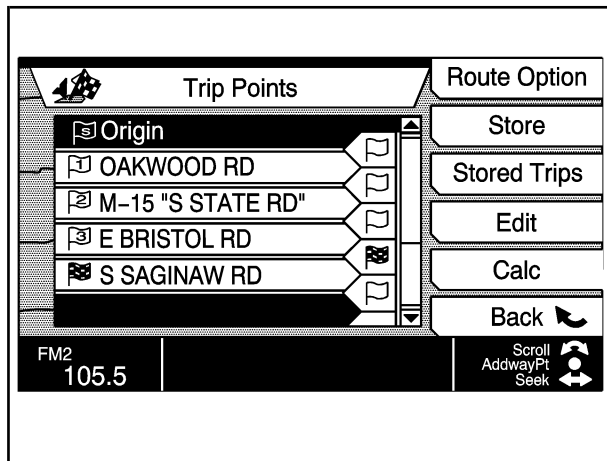
Categorized (Landmark): Use this selection to categorize and attach a landmark icon to your stored point. Select the category with the multi-function button, then use the TUNE/SEL knob to scroll and select the desired landmark icon.

Delete: Select this option to delete the stored points from the list. If you select this option, the system will ask you if you are sure you want to delete the stored point. You may then press Yes or No and return to the previous screen.

Change: Use this selection to change a currently stored point.

Trip Points

Trips can be as simple as one destination or in addition to the destination can have up to 10 waypoints. Press this button to list, edit and save the waypoints and destination entered for your current trip. Once you have entered all the points for the trip, press the Store multi-function button to save the trip to memory. The system will allow you to save up to 10 trips. The following choices are available in the Trip Points menu:



Route Option: This multi-function button is the same as Route Option from the main Navigation Menu. See *Navigation Menu on page 2-10* for more information.

Store: Press the multi-function button to save a trip to memory.

Stored Trips: Press the multi-function button to retrieve a list of all stored trips.

The following prompts are available to you while in the Stored Trips menu:

- More
- Info
- Map
- Edit Name
- Delete
- Back

More: Press this multi-function button to scroll through the full name of the stored trip when all of the information does not fit on the display. Each time this button is pressed, the scrolling speed is increased.

Info (Information): Press this multi-function button to list the destination and any waypoint(s) for a stored trip.

Map: Press this multi-function button to view the map associated with the stored trip.

Edit Name: Press this multi-function button to change some or all of the information of the saved trip name.

Delete: Press this multi-function button to delete a stored trip.

Back: Press the multi-function key next to this prompt to return to the Trip Points menu.

Edit: Press the multi-function button next to this prompt to change your stored trips. Use this function to change the order or delete any or all waypoints or the destination within a trip.

To change the order of a stored trip, do the following:

1. Scroll to the waypoint or destination you want to move using the TUNE/SEL knob.
2. Press the multi-function button next to the Move prompt.
3. Turn the TUNE/SEL knob to move the point to the desired location.
4. Press the multi-function button next to the OK prompt to confirm the change.

Calc (Calculation): Press the multi-function key next to this prompt to start route calculation by the system.

Back (Trip Points Menu): Press the multi-function key next to this prompt to return to the main Navigation Menu.

Enter Dest (Destination)

Press this button to display the Enter Destination menu. This menu will give you more ways to plan a trip.

You may choose to enter a destination using one of the items from the list on the screen. Use the TUNE/SEL knob to choose from the following destination planning options:

Go Home: This option will take you to the destination you stored as Home (first stored point). See “Stored PTs” earlier in this section for more information.

Stored Points: This option allows you to select a destination from your stored points list.

Stored Trips: This option allows you to select a destination from your stored trips list.

Intersection: This option allows you to select a destination by inputting the intersecting roads. When you select Intersection, the alpha-numeric bar will appear to allow you to input the name of the first street. This should bring up a list of cities that have a street with that name. Select the correct city and then the system will allow you to enter the second street. You will only be able to input streets that intersect with the first. After you have entered the second street, the route will be calculated and a voice prompt will come on to direct you to “Proceed to the highlighted route.”

Some cities have multiple listings for a particular street. If you do not see the second street, press the back multi-function button and select another entry for the first street.

Phone: This option allows you to select a destination by inputting the phone number.

When you select Phone, the alpha-numeric bar will appear to allow you to enter the phone number of your destination. Once the phone number has been entered, the multi-function button can be used to map, set the destination or calculate the route to this destination.

If the phone number cannot be found, an error message “no phone number is available” will be displayed.

Previous Origin: This option allows you to return to the place where you started your last planned route. Only one previous origin can be stored at a time by the system. Once you enter a new route, the previous origin will be changed.

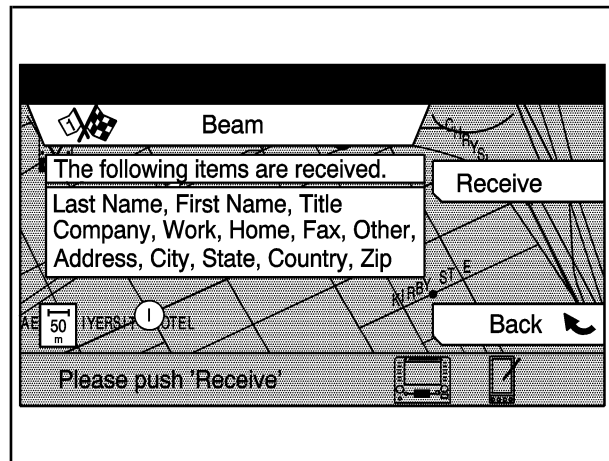
Map Entry: Use this selection to enter a destination by using the map. Turn the TUNE/SEL knob to select a direction to scroll. Press the TUNE/SEL knob to move the map in the direction selected. Use the Set Dest multi-function button to insert this location as your new destination and take you to the Trip Points menu.

Once you have reached the desired destination, press the Calculate button and a trip will be planned with that as the only point in the trip. You will also hear a voice prompt directing you to “Proceed to the highlighted route.”

Use the Zoom In and Zoom Out buttons to view the map as desired.

While in the Enter Dest menu, you may also plan a route using the following multi-function buttons:

Beam: This button allows you to input addresses or telephone numbers you may have stored in your Palm™ hand-held computing device directly into the Navigation System.



When transmitting data to the unit, ensure the format is the same as that on the screen. For the system to be able to properly search for an address, standard street and directional abbreviations should be used. Instead of “West Hall Road” use “W Hall Rd”.

When you press the Receive multi-function button, the system will ask you to send the data. Hold the Palm near the infrared receiver located in the upper right corner of the screen and transmit. When the information has been successfully received, you will be able to use it to help plan your route.

After receiving the beamed data, the screen will display this data. A search must be performed to find the matching data in the navigation database. Turn the TUNE/SEL knob to select a field to search, then press the Search multi-function button. Search will be highlighted if the field is searchable.

You may be requested to select a city or street to narrow the search. After successfully finding the match in the navigation database, you can use the multi-function buttons to map, set the destination or calculate the route.

If the data cannot be found in the navigation database, a message “no data found” will be displayed. If this occurs, select another field to search. Repeat this process until all search fields have been checked or a match is found.

You may also select information from the All POI (Points of Interest) or Nearby POI menus to send to your Palm using the INFO button.

A second way to access the Beam screen is through the Address Book screen. See "Address Book" under *Main Menu on page 1-8* for more information.

All POI (Points of Interest): This option allows you to choose a destination from the all points of interest list. See "Points of Interest Categories" later in this section for the complete list.

There are four ways to limit a search for a point of interest from this screen:

- Choose a city, village, township or county.
- Choose a state.
- Choose a category.
- Enter the name of the POI.

To enter the city of a POI, the state of a POI or a POI category, use the following steps:

1. Press either the City, State or Category multi-function button.

2. Enter the name of the city, state or POI category using the alpha-numeric bar. To limit the search of a point of interest, the city or category must be entered first.

As you enter the item, the system will search for a match. Select the correct point of interest from the list.

To search for a POI by name, enter the name of the POI in the POI Name screen.

The POI Name screen allows you to do the following functions with the multi-function buttons on the currently selected POI:

- More: Press this button to view the entire POI name.
- Info (Information): Press this button to display all known information.
- Map: Press this button to view the location of the vehicle on the map.
- Set Dest (Destination): Press this button to make the POI the destination for the current trip.
- Sort: Press this button to sort the POI list by distance from the current location.

The TUNE/SEL knob can be used to scroll through the list and if pressed, will calculate the route to the selected POI.

Points of Interest Categories: The following list shows the categories in the DVD database that you can choose from when using the All POI or Nearby POI options:

- Airport
- Amusement Park
- ATM
- Auto Dealerships
- Auto Service & Maintenance
- Automobile Club
- Bank
- Border Crossing
- Bowling Center
- Bus Station
- Business Facility
- Casino
- City Center
- City Hall
- College and University
- Community Center
- Commuter Rail Station
- Convention/Exhibition Center
- Court House
- Ferry Terminal
- Gas Station
- Golf Course
- Grocery Store
- Historical Monument
- Hospital
- Hotel
- Ice Skating Rink
- Library
- Marina
- Movie Theater
- Museum
- Nightlife
- Park & Ride
- Park/Recreation Area
- Parking Garage
- Parking Lot

- Performing Arts
- Police Station
- Rental Car Agency
- Rest Area
- Restaurant
- School
- Shopping
- Ski Resort
- Sports Center
- Sports Complex
- Tourist Attraction
- Tourist Information
- Train Station
- Winery

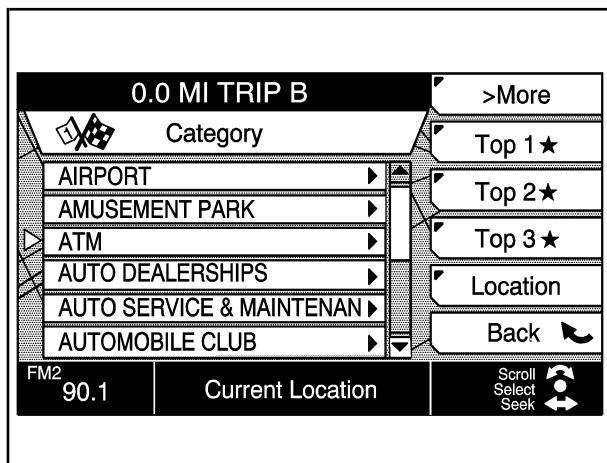
The full names of some POI on the list cannot be displayed due to their length. These names will be followed by three dots (...). If you wish to see the full name of the POI, press the More button and the system will scroll to the end of the name.

The POI for Restaurant is broken down into fifty-one distinct categories. Select Restaurant from the POI choices and press the List button. Cuisine Type will then appear as an option. Press the List button again to view the restaurant categories and select one to use as your POI.

Nearby POI (Points of Interest): This feature allows you to limit your choices of a Nearby POI to within a 30 mile (48 km) radius of one of three locations: current location, waypoint location or destination location.

After entering the Nearby POI screen, use the location multi-function button to select which one of the three locations you want to search for Nearby POIs. The location screen shows a list of all points along your trip. Use the TUNE/SEL knob to select the desired location. Press the Back multi-function button to return to the Nearby POI screen.

The selected location will be shown at the bottom of the screen.



Choose a category from the Nearby POI list using the TUNE/SEL knob. Once a category is selected a list of available POI will be displayed. The points are listed in order of straight-line distance from the selected location. If the selected location is the current location, an arrow will show the direction of the Nearby POI.

Turn the TUNE/SEL knob to select the desired POI. This point can be added to your trip or replace the current trip. Pressing the TUNE/SEL knob will calculate a route to the POI. This also deletes any trip that may have been active.

Use the Set Dest multi-function button to add this POI to your current trip (as your destination) without deleting your current trip. This will take you to the Trip Points screen where this POI can be moved to any location in your trip point list.

Top 1, 2, 3: The most commonly used categories can be put at the top of the list for easy access. These categories are the only available categories when the vehicle is in motion. To move a category to one of the Top 3 spots, turn the TUNE/SEL knob to the desired category. Then, press the Top 1, Top 2 or Top 3 multi-function button to move that category to that location.

Info (Information): Press this button to receive further information about the chosen POI, such as the address and phone number.

From this screen you may also transfer information to your Palm hand-held computing device. See Address Book in *Main Menu on page 1-8* for more information.

For example, if you select a restaurant as your POI and press the Info button, the name, address and phone number for that restaurant will appear.

When a Nearby POI is not available within the search area, the system will display "No Facility Found in This Area."

Last 10: This feature allows you to select a destination from the last 10 destinations. Press the Last 10 button to bring up the list. Choose your destination from this list turning the TUNE/SEL knob.

While using the Last 10 feature, press the Store PT button to add a location from the Last 10 list. Press the Map button while using the Last 10 feature, and the system will take you to the map screen and show you the location of the point you have chosen.

You can use the Set Dest, Delete or Calculate multi-function buttons as described earlier for any other destination. See “Enter Destination” listed previously in this section for more information.

Address: This method allows you to enter a destination using an address (without a zip code). You need to provide the system with a street number, street name and a city.

Enter the name of a street using the alpha-numeric bar. Since there may be many streets within the map database with the same name, you may have difficulty selecting the correct one. If this occurs we recommend entering the city, village, township or county name first.

To enter the city name, select City on the Address screen. Enter the name of the city using the alpha-numeric bar. Select the desired city name from the list the system provides. After you have entered the city

name, the system will prompt you to enter the name of the street or will give you a list of street names to choose from. Enter or select the desired street name.

As information is entered, the system will automatically search for available names. While inputting a name, the List button will become available once there are names to choose from. Press the List button to view the available name choices or continue to spell the name to further limit the number of available items. If you are unsuccessful when inputting a name, the name may need to be input differently or the map DVD may not contain this information. See *Database Coverage Explanations on page 2-34*.

Enter the address number using the alpha-numeric bar.

The system will list the address number range that is available for the street. Some cities may have multiple entries for a street. If the address number does not fall in the address number range displayed on the screen, press Back and select another street name. If the address number still does not appear, it is possible that the map DVD does not contain this information. See *Database Coverage Explanations on page 2-34*.

If you did not select the city name previously, the system may prompt you to do so using the alpha-numeric bar or from a list of names which the system provides. Select the desired city name.

Press the Calculate multi-function button to delete any current trip and set this as your destination. The system will return to the Enter Destination screen. Use the Set Dest function as previously described to add this point to your current trip.

Creating a Trip with Waypoints

Once a destination has been entered, you can also add waypoints. Trip waypoints are destinations you want to arrive at before reaching your final destination. The system will automatically guide you to each waypoint, then on to your final destination. Up to 10 waypoints can be entered for any trip.

To enter a waypoint, press the Trip Points multi-function button on the navigation menu screen. Then, turn the TUNE/SEL knob to scroll the trip points list. A waypoint can be added at any location designated by a blank flag. Press the TUNE/SEL knob to select the location. The system will then allow you to enter a waypoint using the same method as Enter Destination. See “Enter Destination” listed previously in this section for more information.

Once you have entered all desired waypoints for your trip, press the Calculate multi-function button. The system will return you to the map and will plan the route to your waypoints and destination.

After the first waypoint, the color of the highlighted route will change. See *Colors on the Screen on page 2-31* later in this section for more information.

Editing a Trip

While at the Trip Point screen, press the Edit multi-function button. This screen allows you to delete or move points in a trip. If you wish to delete a waypoint, scroll to that waypoint and press Delete. You may also change the order of the waypoints by scrolling to a waypoint and pressing Move. Then, turning the TUNE/SEL knob move it to the desired location within the list. Once the waypoint is at the desired location, press the TUNE/SEL knob or the Ok multi-function button.

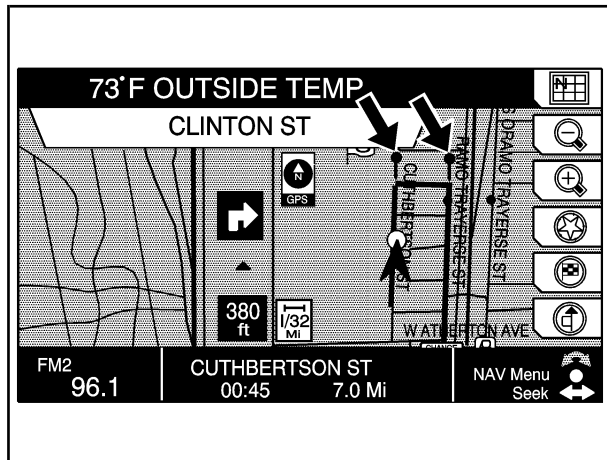
Plan a Route

After a destination has been entered, you must press the Calculate multi-function button. The system will return you to the map and will plan the route to your selected destination. While the system is planning the route, the Route Option and Cancel multi-function buttons will be available. Also the Add Way Pt multi-function button will appear if there are less than 10 waypoints in the current trip.

When your route guidance has been planned, it will be highlighted and a checkered flag will appear on the map to show your destination. Symbols will also appear for any waypoints that have been set. The system will display “Route Calculation Completed” at the bottom of the screen.

Traveling on a Planned Route

After a route has been calculated and the route highlighted, you may hear an audio prompt to proceed to the highlighted route. When you are ready, drive the vehicle to the highlighted route. Once you begin driving on the route, the system will give additional audio and visual prompts, as you approach your next maneuver. Each maneuver is indicated on the map with a red maneuver pin.



Maneuver Pins

Maneuver pins are red “stick pin” icons on the map that indicate changes in the road or special action that must be taken by the driver to remain on the currently traveled road. For example, the road may have a sharp curve in it. The curve would not qualify as an official turn on the planned route. However, the driver must be aware of the curve so that he or she can stay on the planned route. Maneuver pins are always displayed along a planned route, but voice prompts and screen popups will only be given if these features are turned on.

As you are traveling, the current road is shown at the bottom center of the map screen. In addition in the upper center of the map screen will be the next maneuver. Anytime while on the route, you can press the NAV (navigation) Repeat button to get an audio prompt of your next maneuver.

There are two different types of roads in the map database. Fully attributed roads allow for a destination to be set and turn-by-turn guidance to be provided to the exact location of the address. In Process Data (IPD) roads contain only street name and address information. Other information such as turn restrictions and direction of travel is not included for these IPD roads. Therefore, turn by turn guidance cannot be provided to the exact address. When trips are planned that include an IPD destination, turn-by-turn guidance will be provided on the fully attributed roads closest to the destination.

When nearing the end of the highlighted route the system will state, “Enroute to your destination, some roads contain incomplete data. Turn guidance will not be provided in this area.” As you reach the end of the highlighted route the system will state, “Turn guidance will not be provided in this area. Please use the direction arrow and distance indicator to proceed to your destination.” You should refer to the direction and distance information in the lower center area of the screen to navigate to the destination, or refer to the information in the waypoint box for a waypoint.

Once your vehicle is near your destination, the system will say “You’ve arrived at your destination, ending route guidance.”

Back: This button always returns you to the previous screen.

Traveling Across Regions

If you plan a trip that exceeds 1,250 miles (2 000 km) (straight line distance from the vehicle’s current position) you will receive a message that says “Destination/waypoint exceeds maximum distance”. The system will not allow for such a long trip. To avoid this, plan your trip in smaller segments (select a closer destination that you would like to travel through on your way to your final destination).

Colors on the Screen

When a route has been planned, it will be highlighted on the screen in blue. If you have set a waypoint(s) for your route, the colors on the screen will change. The highlighted route to the next waypoint/destination will be blue. All highlighted routes to further waypoints/destinations will be maroon.

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 will.

Global Positioning System (GPS)

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

The Global Positioning System (GPS) locates the current position of your vehicle using signals sent by the United States Department of Defense GPS satellites. GPS will appear green on the screen if the satellite signal is received. GPS will be gray if no signal is being received. See *Symbols on page 2-9* listed previously in this section for more information.

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

The system may not be available or interference may occur if any of the following are true:

- Signals are obstructed by tall buildings, large trucks or a tunnel.
- Metallic objects are located on the dashboard.
- Satellites are being repaired or improved.
- After-market glass tinting has been applied to the vehicle's windshield.

Notice: Do not apply after-market glass tinting to the vehicle's rear window. 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 rear window to correct the problem. This would not be covered by your warranty.

If you are experiencing a problem, see *Vehicle Positioning on page 2-33* and *Problems with Route Guidance on page 2-34* following for more information.

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 traveling on slippery road surfaces such as sand, gravel and/or snow.
- The vehicle is being driven on winding roads.
- The vehicle is being driven 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 being driven at high speeds.
- The vehicle is repeating a change of directions by going forward and backward, or the vehicle is turning on a turn table in a parking lot.
- The vehicle is entering and/or exiting a parking lot, garage or a lot with a roof.
- The vehicle has a roof carrier installed on it.
- The vehicle has tire chains on it.
- The tires have been replaced.
- The tire pressure is incorrect.
- The tires are worn.
- The DVD is used for the first time.
- The battery is disconnected for several days.
- The vehicle is driven in heavy traffic where driving is at low speeds and the vehicle is stopped and started repeatedly.

Problems with Route Guidance

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

- When the vehicle did not turn onto the road indicated by the system,
- when route guidance is not available for the next right or left turn,
- when the route may not be changed during automatic rerouting,
- when there is no route guidance because of a turn at an intersection,
- when plural names of places are displayed,
- when a delay in automatic rerouting occurs because of high speed driving,
- when automatic rerouting displays a route returning to a set waypoint which was missed originally,
- when the route prohibits the entry of a vehicle due to a regulation by time or season or any other regulation which may be given,
- when a route cannot be found, or
- when the route to the destination is not shown because of recently changed or unlisted roads on the DVD.

If the System Needs Service

If you are still experiencing difficulty with your Navigation System and have read the information listed here, see your dealer for assistance.

Database Coverage Explanations

Coverage areas within the United States and Canada 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 map DVDs are updated, more detail may become available for areas which previously had limited detail.

For more detailed information on database coverage, visit the Cadillac website at www.cadillac.com.

Section 3 Navigation Audio System

Navigation Audio System3-2

 CD/DVD Player3-17

Navigation Audio System

The audio system has been designed to operate easily and to give years of listening pleasure. You will get the most enjoyment out of it if you acquaint yourself with it first. Find out what your audio system can do and how to operate all its features to be sure you're getting the most out of the advanced engineering that went into it.

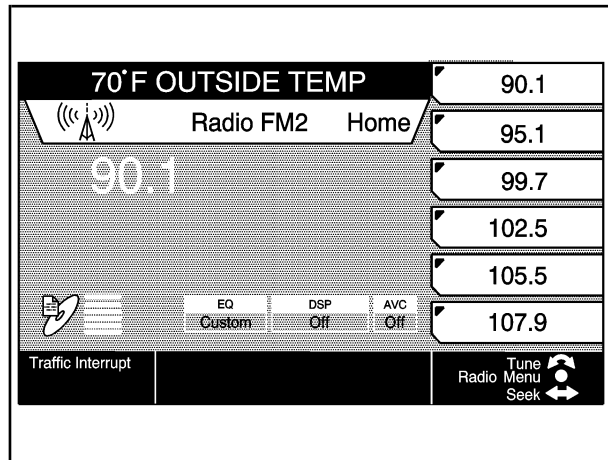
The ignition must be in a position other than OFF or Retained Accessory Power (RAP) must be active for your audio system to work. See "Retained Accessory Power" under "Ignition Positions" of your CTS owner's manual index for more information.



The audio system is operated using menus located on the Navigation System screen. The audio menus are explained in this section.

Radio Screen

To access the Radio screen, press the BAND button located to the left of the display or choose Radio from the Main Menu. See *Main Menu on page 1-8* for more information.



The Radio screen will have preset stations listed vertically at the right side of the screen, and the currently selected station frequency will appear in the center of the screen. At the top of the screen the Driver Information Center (DIC) status line will appear. See “Driver Information Center (DIC)” in your CTS owner’s manual index for more information. Directly below the DIC information, you will see the Banner with Radio and the currently selected band. For example, Radio FM1 means that the presets for FM1 are displayed at the right of the screen. You will also see either Autostore, Home or Away. This will tell you which set of presets are displayed. See “FM Menu” following in this section and *Screen Features on page 1-3* for more information.

Near the bottom left of the screen, you will see six horizontal lines. This is for the six-disc CD changer. To the right of the CD changer information is the equalizer, Digital Signal Processing (DSP) and Automatic Volume Compensation (AVC) information. See “Setting the Tone” and “Playing a CD” later in this section for more information.

AM Menu

This menu allows you to customize the AM presets.

To access the AM Menu you must be in the Radio screen with the AM band active. Pressing the TUNE/SEL knob will bring up the AM Menu. The following multi-function buttons are available:

- Home P-Sets
- Away P-Sets
- Autostore

For a description of each item, see “FM Menu” following.

FM Menu

This menu allows you to customize the FM presets and RDS presets. To access the FM Menu, you must be on the Radio screen and the FM1 or FM2 band must be active. Press the TUNE/SEL knob once. The following menu will appear:

- Help Prompt
- RDS List
- Seek RDS List

- Region
- Alt Frequency
- Display RDS Messages
- Intrpt Volume
- Display Frequency

The following multi-function buttons will also be available:

- Select
- Home P-Sets
- Away P-Sets
- Autostore

Help Prompt: This menu item allows you to display system help information at the bottom center of the screen if you are currently in a submenu. If you are not in a submenu, Navigation system route information is displayed. Press the TUNE/SEL knob to switch back and forth between on and off. When this feature is turned on, an X will appear in the box to the left.

RDS (Radio Data Systems) List: This menu item allows you to choose the type of radio station programs you listen to by category rather than frequency. Press the TUNE/SEL knob once to access the following menu:

- Adult Hits
- Classic Rock
- Classical
- College
- Country
- Information
- Jazz
- Language
- News
- Nostalgia
- Oldies
- Personality
- Public
- R & B
- Religious Music
- Religious Talk

- Rock
- Soft
- Soft R & B
- Soft Rock
- Sports
- Talk
- Top 40
- Weather
- Set All (selects all categories)
- Clear All (clears all currently selected categories)
- Seek Selected (seeks to currently selected categories)

To select a category, scroll to the menu item by turning the TUNE/SEL knob. Once the category you want is highlighted, press the knob once. When the category is selected, an X will appear in the box to the left. To seek to a station using the selected menu items, see "Seek RDS List" following. For more information on RDS, see "Radio Data Systems (RDS)" under "Audio Systems" in your CTS owner's manual index for more information.

Seek RDS List: To seek to the selected categories on the RDS list, press the TUNE/SEL knob once when Seek RDS List is highlighted. The radio will immediately begin seeking to an available radio station that matches the category(ies) selected.

Region: This menu item allows you to turn the Region feature on and off. Press the TUNE/SEL knob to switch back and forth between on and off. When this feature is turned on, an X will appear in the box to the left.

Alt (Alternate) Frequency: This menu item allows the radio to automatically switch to a stronger station with the same programming. Press the TUNE/SEL knob to switch back and forth between on and off. When this feature is turned on, an X will appear in the box to the left.

Display RDS Messages: This menu item allows you to see RDS messages broadcast by the currently selected radio station. Press the TUNE/SEL knob to switch back and forth between on and off. When this feature is turned on, an X will appear in the box to the left.

For XM™ (USA only, if equipped), this item will read Show Msg (message). Use the TUNE/SEL knob to turn this feature on and off. If the feature is on, messages will be automatically be displayed. If it is off, a Message Availabl icon will be displayed when a message has been received.

When turned on, any RDS messages broadcast will appear in the bottom center of the screen. If no message is available, No Info (Information) will be displayed. RDS messages only appear on the Radio screen. For more information on RDS, see “Radio Data Systems (RDS)” under “Audio Systems” in your CTS owner’s manual index for more information.

The RDS message feature is available for the FM bands and for RDS radio stations only. RDS messages will only appear if the Message feature is turned on.

Intrpt (Interrupt) Volume: This menu item allows you to set the volume level of the traffic announcements you receive from the system.

To change the current volume level, do the following:

1. Press the TUNE/SEL knob once to access the adjustment bar graph.
2. Turn the knob to increase or decrease the volume level.
3. Once you reach the volume level you want, press the knob once to set your selection.

Display Frequency: This menu item allows you to display the frequency of the currently selected RDS radio station in the bottom left of the screen. Press the TUNE/SEL knob to switch back and forth between on and off. When this feature is on, and X will appear in the box to the left.

Select: Press this multi-function button to choose a highlighted menu item from the FM Menu

Home Presets: This multi-function button allows you to display your home, or local, radio station presets. Press the multi-function button next to Home P-Sets, and the preset stations at the right of the screen will change to your local presets. Home will appear on the screen near the current station frequency. To store preset radio stations, see “Setting Preset Stations” listed later in this section.

Away Presets: This multi-function button allows you to display the preset radio stations for when you are traveling out of town. Press the multi-function button next to Away P-Sets, and the preset stations at the right of the screen will change to the preset stations stored for when you travel. Away will appear on the screen near the current station frequency. To store preset radio stations, see “Setting Preset Stations” listed later in this section.

Autostore: This multi-function button allows you to store the six radio stations with the strongest signals as presets. Press the multi-function button next to Autostore to activate this feature. The preset prompts at the right of the screen will update once Autostore is finished. See “Setting Preset Stations” listed later in this section.

XM™ Menu

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

To access the XM™ Menu you must be in the Radio screen with the XM1 or XM2 band active. Pressing the TUNE/SEL knob will bring up the XM™ Menu.

This menu allows you to seek or scan for stations based on their category. While in this menu you can turn the TUNE/SEL knob to scroll through the categories and press it to select the category you want to seek to. Use the SEEK/SCAN switch to seek to the first available channel in that category.

XM™ Radio Satellite Service (USA Only)

XM™ is a continental U.S. based satellite radio service that offers 100 coast to coast channels including music, news, sports, talk and children’s programming. XM™ provides digital quality audio and text information, including song title and artist name. A service fee is required in order to receive the XM™ service. For more information, contact XM™ at www.xmradio.com or call 1-800-852-XXXM (9696).

Playing the Radio

The **BAND** button is located on the left side of the Navigation System screen. Press this button once to access the audio system. You can also access the audio system from the Navigation Main Menu. See *Main Menu on page 1-8*. Use the following controls to operate the audio system:

PWR/VOL (Power/Volume): Press this knob located to the lower left of the display to turn the Navigation System on and off.

Turn the knob to increase or decrease the volume level. You can also adjust the volume level using the steering wheel controls. See “Audio Steering Wheel Controls” in your CTS owner’s manual index for more information.

Finding a Station

BAND: After you access the main radio display, press this button repeatedly to scroll through the bands: AM, FM1, FM2, XM1 and XM2 (USA only, if equipped). The one currently selected is shown near the top of the display. For example, Radio FM2 will be displayed when the FM2 screen is selected.

TUNE/SEL (Select): Use this knob located to the lower right of the display to manually tune the radio, access the radio menus and scroll through the menu items. See “FM Menu” listed previously in this section for more information.

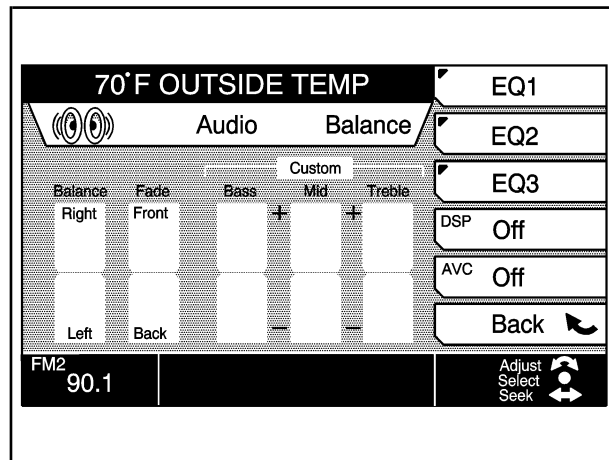
 **SEEK/SCAN**  : Press the left or right arrow to seek to the previous or next station. The radio will go to the next station with a strong signal only. If you wish to continue seeking, press the arrow again. The volume will mute while seeking.

To scan stations, press and hold the left or right arrow for two seconds until you hear a beep. The radio will go to the next or previous station, play for a few seconds, then go on to the next station. The radio will scan to stations with a strong signal only. The volume will mute while scanning. Press either arrow again to stop scanning.

To scan preset radio stations, press and hold the left or right arrow for more than four seconds. You will hear two beeps and Preset Scan will appear on the screen. The radio will go to the first preset station stored, play for a few seconds, then go on to the next preset station. The radio will scan preset stations with a strong signal only. The volume will mute while scanning. Press the left or right arrow again to stop scanning presets. See “Setting Preset Stations” later in this section for more information.

Setting the Tone

Press the AUDIO button located to the left of the screen to access the Audio screen.



To manually adjust the tone, use the TUNE/SEL knob. The system will begin with Balance. Turn the knob to adjust the level. Once you find the level you want, press the knob once to set it. The system will advance to the right to Fade.

If you do not wish to change the current setting, press the knob repeatedly to advance to the feature you wish to adjust.

Balance: Turn the TUNE/SEL knob to adjust Balance toward Right or Left.

Fade: Turn the TUNE/SEL knob to adjust Fade toward Front or Back.

Bass: Turn the TUNE/SEL knob to increase or decrease Bass.

Mid (Midrange): Turn the TUNE/SEL knob to increase or decrease midrange.

Treble: Turn the TUNE/SEL knob to increase or decrease Treble.

EQ 1–3 (Equalizer): Once you adjust the bass, midrange and treble, you can save them for future use. You may store up to three customized equalizations. To store equalizations, do the following:

1. Manually set the levels for Bass, Mid and Treble.
2. Press and hold one of the three equalization buttons.

You will hear a beep once the equalization is stored successfully.

Equalization settings are unique to each source, and they must be set individually for each source. For example, if you select EQ1 for the CD changer and then switch to a preset radio station, the equalization may not be the same.

You can save an equalization setting for each stored preset radio station. See “Setting Preset Stations” listed later in this section for more information.

DSP (Digital Signal Processing): This feature is only available on the Bose® system. This feature is used to provide a choice of five different listening experiences. DSP can be used while listening to the radio or the CD players.

A description of the five DSP choices follows:

- **Normal:** This setting provides the best overall audio performance for all passengers.
- **Talk:** This setting is used when listening to non-musical material such as news, talk shows and sports broadcasts. Talk makes spoken words sound very clear.
- **Driver Seat:** This setting adjusts the audio to give the driver the best possible sound qualities. Driver Seat can be used at any time for any material.

- **Rear Seat:** This setting adjusts the audio to give the rear seat passengers the best possible sound qualities. Rear Seat can be used at any time for any material.
- **Spacious:** This setting is used to make the listening area seem larger.

To change the current DSP settings, do the following:

1. Press DSP multi-function button to turn DSP on and to access the DSP choices.
2. Continue to press the DSP multi-function button until the desired DSP mode is selected.
3. Press the Back multi-function button to exit the DSP menu.

Your choice will be displayed on the DSP prompt at the right of the screen.

The DSP settings are unique to each source, and they must be set individually for each source. For example, you may have Talk selected for a preset radio station, but if you change to the CD changer, Spacious may be selected.

You can also store separate DSP settings for each preset station. See “Setting Preset Stations” following and “Playing a CD” later in this section for more information.

AVC (Automatic Volume Compensation): This feature is only available on the Bose® system. This feature monitors the noise in the vehicle. Then, AVC automatically adjusts the volume level so that it always sounds the same to you. AVC works best when listening at low volume levels. At louder listening levels there will be little or no effect.

To turn AVC on and off, press the AVC multi-function button.

Setting Preset Stations

The six multi-function buttons next to the display allow you to store your favorite radio stations. You can set up to 30 different preset stations, six per band, AM, FM1, FM2, XM1, and XM2 (USA only, if equipped). The Home and Away presets each have 30 separate presets. For more information on the Home and Away feature, see “FM Menu” listed previously in this section.

To store a radio station as a preset, use the following steps:

1. Select the band where you want the preset stored by pressing the BAND button.

2. Select either the Home or Away presets. See “FM Menu” listed previously in the section for more information on the Home and Away feature.
3. Tune to the desired station using the TUNE/SEL knob or the SEEK/SCAN switch.
4. Choose the equalization and DSP settings you want.
See “Setting the Tone” listed previously for more information.
5. Press and hold the multi-function button next to the preset you want.
You will hear a beep when the preset has been stored, and the frequency of the stored station will appear on the preset prompt at the right of the display.
6. Repeat the steps to store other presets.

To select a stored preset station listed on the screen, press the multi-function button next to the station prompt. The station will change, and the new radio station frequency will be displayed in the center of the screen.

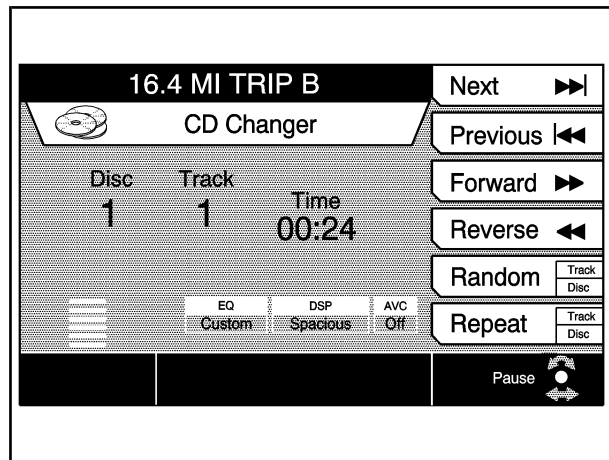
XM™ Radio Messages

Radio Display Message	Condition	Action Required
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-XXXM (9696).
XM Updating	Updating encryption code	The encryption code in your receiver is being updated, and no action is required. This process should take no longer than 30 seconds.
No XM signal	Loss of signal	Your system is functioning correctly, but you are in a location that is blocking the XM signal. When you move into an open area, the signal should return.
Loading XM	Acquiring channel audio (after 4 second delay)	Your radio system is acquiring and processing audio and text data. No action is needed. This message should disappear shortly.
Channel Off Air	Channel not in service	This channel is not currently in service. Tune in to another channel.
Channel Unavail	Channel no longer available	This previously assigned channel is no longer assigned. Tune to another station. If this station was one of your presets, you may need to choose another station for that preset button.
No Artist Info	Artist Name/Feature not available	No artist information is available at this time on this channel. Your system is working properly.
No Title Info	Song/Program Title not available	No song title information is available at this time on this channel. Your system is working properly.

XM™ Radio Messages (cont'd)

Radio Display Message	Condition	Action Required
No CAT Info	Category Name not available	No category information is available at this time on this channel. Your system is working properly.
Not Found	No channel available for the chosen category	There are no channels available for the category you selected. Your system is working properly.
No Information	No Text/Informational message available	No text or informational messages are available at this time on this channel. Your system is working properly.
XM Theftlocked	Theft lock active	The XM receiver in your vehicle may have previously been in another vehicle. For security purposes, XM receivers cannot be swapped between vehicles. If you receive this message after having your vehicle serviced, check with the servicing facility.
XM Radio ID	Radio ID label (channel 0)	If you tune to channel 0, you will see this message alternating with your XM Radio 8 digit radio ID label. This label is needed to activate your service.
Unknown	Radio ID not known (should only be if hardware failure)	If you receive this message when you tune to channel 0, you may have a receiver fault. Consult with your dealer.
Check XM Receiver	Hardware failure	If this message does not clear within a short period of time, your receiver may have a fault. Consult with your retail location.

Playing a CD



CD changer screen shown, single CD player similar

You can play a single CD by sliding the CD into the slot located above the audio system screen or by using the six-disc CD changer located below the screen.

The following controls are used for both CD players unless otherwise noted:

DISC: Press this button located to the left of the screen to access the CD changer screen. The CD changer will begin playing the currently loaded CD, and you will see the disc and disc number, track and the track number as well as TIME and the amount of time the track has been playing displayed on the screen.

The single CD player screen will be displayed if a music CD is loaded in the player and no CDs are loaded in the CD changer.

If you have a CD text disc and are using the single CD player, any information stored on the CD will appear on the screen. Possible text includes the title of the song, the artist and the title of the CD. Text will not appear on the screen if you are using the CD changer.

LOAD (Six-Disc CD Changer Only): Press this button before loading a CD into the CD changer. One beep will sound, and you will be prompted to load the CD.

To load all six CDs at one time, press and hold the LOAD button until two beeps sound. You will then be prompted to load six discs into the CD changer.

Repeat: Press the multi-function button next to the Repeat prompt to turn this feature on.

The first press of the Repeat multi-function button will turn on Repeat Track. This feature allows the CD player or CD changer to play the currently selected track again once the track has ended. When Repeat Track is turned on, it will be highlighted on the Repeat prompt at the right of the screen.

Press the Repeat multi-function button again to switch to Repeat Disc. This feature is available for the CD changer only. The CD changer will play the currently selected disc again once the last track has ended. When Repeat Disc is turned on, it will be highlighted on the Repeat prompt at the right of the screen.

Press the Repeat multi-function button again to turn on Repeat Track and Repeat Disc. This is only available for the CD changer. If you are using the single CD player, the Repeat feature will turn off.

Press the button a fourth time while using the CD changer to turn off the Repeat feature.

Random: Press the multi-function button next to the Random prompt to turn this feature on.

The first press of the Random multi-function button will turn on Random Track. This feature allows the CD player or CD changer to play the tracks on the current disc in random, rather than sequential, order. When Random Track is turned on, it will be highlighted on the Random prompt at the right of the screen.

Press the Random multi-function button again to switch to Random Disc. This feature is available for the CD changer only. Random Disc allows the CD player to play the discs loaded in the CD changer in random, rather than sequential, order. When Random Disc is turned on, it will be highlighted on the Random prompt at the right of the screen.

Press the Random multi-function button again to turn on both Random Track and Random Disc. This is only available for the CD changer. If you are using the single CD player, the Random feature will turn off.

Press the button a fourth time while using the CD changer to turn off the Random feature.

Pause: To pause the playback of a CD, press the TUNE/SEL knob once. Press it again to resume playback.

Forward ►► : Press and hold the multi-function button next to Forward to quickly advance within the current track. As the CD advances, the elapsed time will be displayed to help you find the correct passage.

Reverse ◀◀ : Press and hold the multi-function button next to Reverse to quickly go backward within the current track. As the CD reverses, the elapsed time will be displayed to help you find the correct passage.

Next ►► : Press the multi-function button next to the Next prompt to advance to the next track on the current CD if only a single CD is loaded in either the CD player or the CD changer. You can also use the steering wheel controls to change tracks. See “Audio Steering Wheel Controls” in your CTS owner’s manual index for more information.

If you press and hold this button for two or three seconds while in single CD mode, the system will scan the tracks.

If more than one CD is loaded in the CD changer, pressing the Next multi-function button will advance the CD changer to the next loaded CD. The new CD will begin playing at track one.

Previous ◀◀ : Press the multi-function button next to the Previous prompt to skip to the track immediately before the current track on the current CD if only a single CD is loaded in either the CD player or the CD changer. You can also use the steering wheel controls to change tracks. See “Audio Steering Wheel Controls” in your CTS owner’s manual index for more information.

If more than one CD is loaded in the CD changer and you press the Previous multi-function button, the CD changer will skip to the CD loaded immediately before the current CD. The new CD will begin playing at track one.

◁ **SEEK/SCAN ▷ (Six-Disc CD Changer Only):** Use the left or right arrow to skip to the previous or next CD loaded in the CD changer. The new CD will begin playing at track one.

⏏ **(Eject):** Press the button with this symbol on it to eject a CD. There is a separate eject button for each player next to the CD slot. You will hear a beep once the CD is removed from the slot.

BAND: Press this button located to the left of the screen once to switch to the radio while playing a CD. The audio system screen will appear. See “Radio Screen” listed previously for more information.

Loading the CD Changer

You can load up to six CDs in the CD changer. To load discs, use the following steps:

1. Press the LOAD button. You will hear one beep and will be prompted to load the CD. The system will switch to CD and begin playing the disc.

If you press and hold the LOAD button until two beeps sound, you will be prompted to load all six discs.

2. Slide discs one at a time, label side up, into the slot located below the screen.

After each one is loaded, you will hear a beep. As the CDs are loaded, the horizontal lines located in the lower left of the screen will change colors. If a line is gray, it means that no CD is loaded in that slot. If a line is green, it means that a CD is loaded in the slot. The slot with the currently active CD is yellow. The system will not begin playing the disc.

XM™ Satellite Radio Antenna

Your XM™ Satellite Radio antenna is located on the roof of your vehicle. Keep this antenna clear of snow and ice build up for clear radio reception.

CD/DVD Player

The player that is used for the Navigation map DVD can also be used as a single music CD player or a video DVD player.

CD Player

To use the player as a single music CD player see the information for “CD Player” under *Navigation Audio System on page 3-2*

DVD Player

To use the player as a video DVD player, you must first remove the Navigation map DVD or music CD. While playing a video DVD, the Navigation system is not available.

This feature will not operate unless the vehicle is in PARK (P) for an automatic transmission, or the parking brake is engaged and the vehicle speed is less than 5 mph (8 km/h) for a manual transmission. If these conditions are not met, a message will be displayed on the screen stating that the DVD is not available while driving. The audio will continue to play, the Play/Pause and Stop buttons will work and the voice commands will be available. See *Voice Recognition on page 4-2*.

To remove the Navigation map DVD and load a video DVD, use the following steps:

1. With the ignition on and the vehicle in PARK (P) for an automatic transmission, or the parking brake is engaged and the vehicle speed is less than 5 mph (8 km/h) for a manual transmission, press and hold the eject button next to the top slot.
2. If a map DVD or a music CD is loaded, the system will eject it. Gently remove it from the slot and return it to its case.
3. Load the video DVD label side up into the slot. The system will pull the DVD into the player.

Once the video DVD is loaded, the system will go to the main menu on most discs.

Playing a DVD

Once the disc is loaded press the first multi-function button to start play.

While a movie is playing, if the disc allows, you can use the SEEK/SCAN switch to move to the next or previous chapter on the disc. When the TUNE/SEL knob is turned clockwise the disc will fast forward. The farther the knob is turned the quicker the disc will advance. When the knob is turned counterclockwise, the

first four detents will play the disc in slow motion. As the knob is turned farther counterclockwise the disc will begin reversing. The farther the knob is turned the quicker the disc will reverse.

To resume normal play, press the first multi-function button.

DVD Menus

Each DVD has its own main menu. To display the DVDs main menu, press the TUNE/SEL knob.

Press one of the top four multi-function buttons to bring up the on-screen display. The following multi-function buttons will be available while a DVD is playing:

Play/Pause: Pressing this button will pause a disc if it is playing or start play if the disc is paused.

Stop: Pressing this button will stop the disc.

Display Format: This will change the display format between Full (image stretched horizontally to fill the screen), Cinema (image is stretched on the outside edges), Zoom (image is enlarged, this may cut off information on the top/bottom/sides of the screen) and Normal.

Function Menu: Pressing this button activates the function menu which includes the following choices:

- Multi-function Button 1: Turns off the function menu and pauses the disc.
- Multi-function Button 2: Stops the disc.
- Multi-function Button 3: No function.
- Multi-function Button 4: Turns off the function menu display.

While the function menu is active the timer is displayed on top along with the chapter and title number.

The SEEK/SCAN switch is used to change the highlighted item in the bottom display.

: The bottom display shows the camera angle, if available. Turn the TUNE/SEL knob to choose the camera angle number and press the knob to select it.

: The bottom display also includes the subtitle language select. Turn the TUNE/SEL knob to choose the language and press the knob to select it.

The next item allows you to turn the subtitles on and off. Turn the TUNE/SEL knob to toggle between on and off and press the knob to make your selection.

The last item on the bottom display is the audio track selection. This allows you to choose to hear the DVD in different languages or listen to commentary. The choices available are dependant on the DVD itself. Turn the TUNE/SEL knob to choose the track and press the knob to make your selection.

Stopping and Ejecting a DVD

To stop a DVD from playing press the second multi-function button. While the disc is stopped you can press the first multi-function button to start the disc again.

Also while the disc is stopped, you can turn the TUNE/SEL knob to activate the title select function. Turn the TUNE/SEL knob and then press the SEEK/SCAN switch to enter the title number. When the number you want is displayed, press the TUNE/SEL knob. If the disc supports this feature it will begin play at that title number.

Press the eject button next to the top slot to eject the DVD. The system will switch to radio mode.



 NOTES

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Section 4 Voice Recognition

Voice Recognition4-2

Voice Recognition

Using verbal commands, you can use the system without manually pressing buttons and turning the TUNE/SEL knob.

Activating Voice Recognition

To activate voice recognition, press the voice recognition steering wheel control.



The voice recognition steering wheel control is located on the right spoke of the steering wheel.

Once you press the control, a tone will sound. After the tone, say the command clearly and slowly. When the system is finished recognizing the command, it will either perform the commanded function or issue an error message, such as “invalid command” or “not recognized.”

The invalid command message indicates that the command cannot be used in the currently active screen. For example, if you use the “Next Track” command while listening to the radio, you will receive the invalid command message because the command is for the DVD player or CD changer, not the radio.

If you are experiencing difficulties with the system recognizing the commands, try saying them more softly.

Voice Recognition Commands

Some verbal commands are universal and can be used from any location in the system. Others are screen and/or menu specific. The following is a list of the available commands and a description of each.

Universal Commands

These commands can be said from any screen, and the system will respond accordingly.

What Can I Say?: If you say this command, the system will respond with a list of verbal commands available to you. The list of commands will vary depending upon which screen is currently active.

Acknowledge/Ok: If you say either “Acknowledge” or “Ok” when a Driver Information Center (DIC) warning message is displayed, the message will be cleared from the screen. For more information on DIC messages, see “DIC Warnings and Messages” in your CTS owner’s manual index.

Radio: This command instructs the system to display the Radio screen. Once the screen is displayed, you can use other Radio screen-specific commands. See “Radio Commands” later in this section for more information.

Audio Mode: This command instructs the system to display the Audio screen where you can adjust the various sound levels, such as bass and treble. See “Setting the Tone” in *Navigation Audio System on page 3-2* for more information.

CD Player: This command instructs the system to display the single CD player screen. Once the screen is displayed, you can use other CD player screen-specific commands. See “CD Commands” listed later in this section for more information.

CD Changer: This command instructs the system to display the CD changer screen. Once the screen is displayed, you can use other CD changer screen-specific commands. See “CD Commands” listed later in this section for more information.

DVD: This command instructs the system to display the DVD player screen. Once the screen is displayed, you can use other DVD screen-specific commands. See “DVD Commands” listed later in this section for more information.

Navigation: This command instructs the system to display the Navi (Navigation) Startup Screen. The Birdview™ introduction screen will appear when this command is used. The introduction screen only will be displayed the first time Navigation is accessed.

Once the Navigation system is active, you can use other Navigation-specific commands. See “Navigation Commands” listed later in this section for more information.

Setup: This command instructs the system to display the Setup menu. For more information on this menu, see “Setup Menu” in the Index.

Main Menu: This command instructs the system to display the Main Menu screen. Once the screen is displayed, you can use other Main Menu screen-specific commands.

Information: This command instructs the system to display the Vehicle Information menu which contains the Driver Information Center (DIC) information. See “Driver Information Center (DIC)” in your CTS owner’s manual index for more information on this menu and the DIC.

Voice Memo (Memorandum): This command instructs the system to display the Voice Memo screen. Once the screen is displayed, you can use other Voice Memo screen-specific commands. See “Voice Memo (Memorandum) Commands” listed later in this section for more information.

Address Book: This command instructs the system to display the Address Book screen. Once the screen is displayed, you must operate the system manually because there are no verbal commands for the Address Book. For more information, see *Main Menu on page 1-8*.

Mute/Unmute: These commands instruct the system to turn off all sound when you say “Mute.” The sound will return to its previous level when you say “Unmute.”

DSP (Digital Signal Processing) Settings

Commands: You can change the DSP settings programmed for the currently active source by saying one of the following commands:

- DSP Normal
- DSP Talk
- DSP Driver Seat
- DSP Rear Seat
- DSP Spacious

For more information on the various DSP settings, see “Setting the Tone” in *Navigation Audio System on page 3-2*.

Day/Night Display Commands: You can adjust the automatic contrast and brightness of the screen by saying one of the following commands:

- Set Day
- Set Night
- Set Day/Night Auto

If you prefer to adjust the contrast and brightness to a customized setting, you must make the adjustments manually. See *Setup Menu on page 1-14* for more information.

Measurement Unit Commands: You can change the measurement units for the system by saying one of the following commands:

- Set Units English (feet/miles)
- Set Units Metric (meters/kilometers)
- Set Units Imperial (yards/miles)

See *Setup Menu on page 1-14* for more information.

Load Disc: This command instructs the system that you will be loading a CD into the six-disc CD changer. See *Navigation Audio System on page 3-2* for more information.

Load All: This command instructs the system that you will be loading six CDs into the CD changer. See *Navigation Audio System on page 3-2* for more information.

Eject Disc: This command instructs the system to eject the currently active CD from the six-disc CD changer.

Radio Commands

The following list of verbal commands is used only while the Radio screen is active.

Band Selection Commands: You can change the currently active band (AM, FM1, FM2, XM1 or XM2) by saying one of the following:

- AM
- FM1
- FM2
- XM1
- XM2

Radio Data Systems (RDS) Message

Commands: You can customize the RDS system by saying one of the following commands while in FM1 or FM2:

- RDS Message On
- RDS Message Off
- RDS Traffic On
- RDS Traffic Off
- RDS Alternate Frequency On
- RDS Alternate Frequency Off

For more information on the above RDS features, see FM Menu in *Navigation Audio System on page 3-2*.

Radio Tune: You can change the current radio station by saying “radio tune” and the frequency of the radio station. For example, if you say “radio tune ninety four point seven,” the station will switch to 94.7 FM. If you are changing the station for the AM band, say “radio tune ten seventy” for 1070 instead of “one zero seven zero.” If the station frequency has two or three zeros, such as 600 or 1000 AM, say “radio tune six hundred” or “radio tune one thousand.” The exception is a station frequency that includes a zero between other numbers. In this case, say “oh” instead of zero as in “radio tune one oh seven point nine” for frequency 107.9 FM. This feature does not work with XM™.

Seek Up/Down: These commands instruct the system to seek up or down to the next or previous strongest radio station frequency and stay there.

Scan Up/Down: These commands instruct the system to preview the strongest radio station frequencies either forward or backward. The system will go to the next station, play for a few seconds, then go to the next station.

To stop the scanning feature, say “Scan” again.

Preset X: This command instructs the system to change the current radio station to one of the saved preset stations on the currently active radio screen (AM, FM1, FM2, XM1 or XM2).

To use this command, you must know the number of the preset you wish to hear. For example, if you want to hear the station saved to preset three, say “preset three.” If you want to hear the station saved to preset three on a different band, you must change the band first. See “Band Selection Commands” listed previously.

CD Commands

The following list of verbal commands is used with the single CD player and the six-disc CD changer. Most of these commands can also be executed manually using the multi-function buttons available on the CD screen. For more information, see *Navigation Audio System on page 3-2*.

CD Player: This command instructs the system to display the single CD player screen. If a music CD is loaded, it will begin playing.

CD Changer: This command instructs the system to display the CD changer screen.

Pause: This command instructs the system to stop playing a CD. The system will remember the exact location on the CD so that when playback resumes, it will begin there.

Play: This command instructs the system to resume playing a CD after the system has been paused.

Play Track X: This command instructs the system to play a specific track. To use this command, you must know the number of the track you wish to hear. For example, if you want to hear the second track on the current CD, say “play track two.” The new track will begin playing immediately.

Next Track: This command instructs the system to advance the current CD to the next track.

Previous Track: This command instructs the system to skip to the track immediately before the current one on the CD that is playing or to re-start the current track.

If the track has been playing for under 10 seconds, the CD player will go to the previous track. If the track has been playing longer than 10 seconds, the Previous Track command will re-start the current track.

Next Disc (CD Changer Only): This command instructs the system to advance the CD changer to the next CD loaded. The new CD will begin playing immediately.

Previous Disc (CD Changer Only): This command instructs the system to skip to the CD loaded immediately before the current CD. The new CD will begin playing immediately.

Disc X (CD Changer Only): This command instructs the CD changer to play a specific CD. To use this command, you must know the number of the CD you wish to hear. For example, if you want to hear the CD loaded in slot two, say “disc two.” The first track on the new CD will begin playing immediately.

Random Track On: This command instructs the system to play the tracks on the current CD in random, rather than sequential, order.

Random Track and Disc On (CD Changer Only): This command instructs the CD changer to play the tracks on the current CD in random, rather than sequential, order. Once the current CD is finished, the next CD to play will be chosen randomly.

Random Off: This command instructs the system to turn off the Random feature. All tracks and CDs will play in their normal sequential order.

Repeat Track On: This command instructs the system to play the currently selected track again once the track has played.

Repeat Disc On (CD Changer Only): This command instructs the CD changer to play the current CD again once all the tracks have played.

Repeat Off: This command instructs the system to turn off the repeat feature.

DVD Commands

The following list of verbal commands is used with the DVD player. These commands can also be executed manually using the multi-function buttons available on the DVD screen. For more information, see *CD/DVD Player on page 3-17*.

Play: This command instructs the system to play a DVD from the disc menu screen or if the movie has been stopped or paused.

Pause: This command instructs the system to pause the DVD that is playing. The system will remember the exact location on the DVD so that when playback resumes, it will begin there.

Next Track: This command instructs the system to advance to the next chapter on the DVD.

Previous Track: This command instructs the system to reverse to the previous chapter on the DVD or to re-start the current chapter if has been less than five seconds since the current chapter started.

Eject Disc: This command instructs the system to eject the DVD from the player.

Voice Memo (Memorandum) Commands

The following are verbal commands that can be used when the Voice Memo screen is active.

Memo Play: This command instructs the system to play the memo currently highlighted on the screen. If no memo has been previously recorded, this command is not available.

Memo Play X: This command instructs the system to play a memo saved to a specific location that is not the memo currently highlighted on the screen. To use this command, you must know the location of the memo you wish to hear. For example, if you want to hear the memo saved to location three, say “memo play three.” The system will switch to memo three and begin playing the memo.

Memo Stop: This command instructs the system to stop playback of a memo once it has started playing.

Memo Record: This command instructs the system to begin recording a memo.

Memo Append: This command instructs the system to add to the memo currently highlighted on the screen. If no memo has been previously recorded, this command is not available.

Memo Append X: This command instructs the system to add to a previously recorded memo that is not the memo currently highlighted on the screen. To use this command, you must know the location of the previously recorded memo to which you want to add information. For example, if you want to add to the memo stored in location two, say “memo append two.” The system will switch to memo two and begin recording. The new information will be added to the memo in location two.

Memo Delete: This command instructs the system to delete the memo currently highlighted on the screen. If no memo has been previously recorded, this command is not available.

Memo Delete X: This command instructs the system to delete a previously recorded memo saved to a specific location. To use this command, you must know the location of the memo that you want to delete. For example, if you want to delete the memo saved in location one, say “memo delete one.”

Yes: This command confirms choices made while using the Voice Memo screen. For example, if you use the memo delete command, the system will request a confirmation of the deletion. If you wish to delete the memo, you must reply with “yes” or the system will not delete the memo.

This command is only available in the Memo Delete screens.

No: This command cancels choices made while using the Voice Memo screen. For example, if you use the memo delete command, the system will request a confirmation of the deletion. If you say “no,” the system will not delete the memo.

This command is only available in the Memo Delete screens.

Navigation Commands

The following verbal commands can be used when the Navigation system is active.

North Up: This command instructs the system to switch from the current view to a view of the map where north is always “up” on the screen. See *Symbols on page 2-9* for more information.

Heading Up: This command instructs the system to switch from the current view to a map view where the vehicle appears to be traveling in an “up” direction

on the screen regardless of compass direction. See *Symbols on page 2-9* for more information.

Bird View: This command instructs the system to switch from the current view to the bird view of the map. This view allows you to see an overall general picture of the map from above as if you were a bird flying over the area. See *Symbols on page 2-9* for more information.

Split View: This command instructs the system to switch from the current view to a map view that has a regular view of the map and a popup view of upcoming turns. See *Navigation Menu on page 2-10* for more information.

Single Screen: This command instructs the system to switch back from the split view screen to the regular map view. See *Navigation Menu on page 2-10* for more information.

Zoom In: This command instructs the system to provide a closer scale view of the current map. See *Navigation System Overview on page 2-2* for more information.

Zoom Out: This command instructs the system to provide a larger scale view of the current map. See *Navigation System Overview on page 2-2* for more information.



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 NOTES

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 NOTES

[illegible]



 NOTES

[illegible]



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