2001

NAVIGATION SYSTEM SUPPLEMENT

The 2001 Navigation System Supplement

This supplement contains information on the operation of the Navigation System in your vehicle. This supplement, along with your owner's manual, will assist you in the proper use of the system. If you have any problems using the system, please contact your dealer.

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 the owner's manual supplement and the owner's manual with the vehicle.

Section 1   Overview

Here you'll find basic information about features available on your Navigation System and how they are used.

Introduction

The Navigation System allows you to plan a route and receive turn‑by‑turn route and map guidance with voice prompts.

The database allows you to select a destination from various areas and choices (street addresses, intersections, destinations stored in memory, points of interest, etc.). These features are explained later in this supplement.

The Navigation System can also communicate with the audio system to receive broadcast announcements on traffic, weather information and emergency alert communications.

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

Also, the information in the system is not always complete. Road conditions, such as no left turns, detours and construction, change frequently. It is important to see whether you can follow the directions given by the system safely and legally.

Global Positioning System (GPS)

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

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

The GPS shows the accurate current position of your vehicle using signals sent by the GPS Satellites of United States Department of Defense. When your vehicle is receiving signals from the satellites, the GPS symbol will appear on the map screen. See "GPS Symbol" in the Index.

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

- Signal obstructions caused by tall buildings, large trucks, tunnels,
- objects located on the rear shelf and/or,
- satellites will not send signals if they are being repaired or improved,
- after-market glass tinting has been applied to the vehicle's rear window.

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.
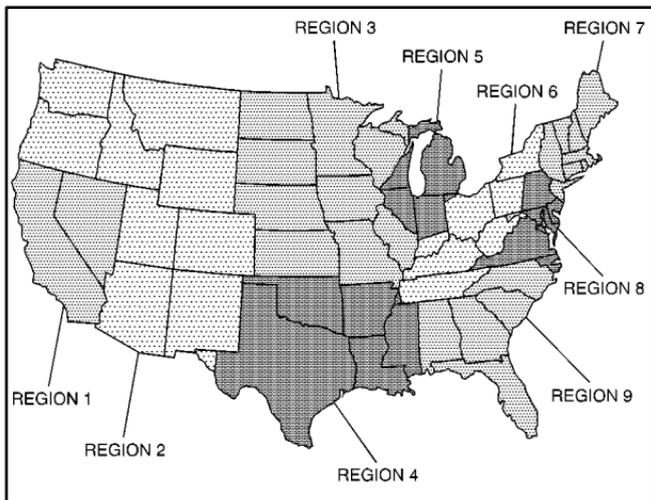
For more information if you are experiencing a problem, see "Vehicle Positioning" and "Problems with Route Guidance" in the Index.

Maps

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

Regional Maps

The maps are stored on a CD (compact disc). Each CD covers a regional area. There are nine CDs available for the United States.

The map above shows the different coverage areas and corresponding CD numbers for the United States. A regional map covers all interstate freeways and most: state highways, country roads, major and general streets for the CD currently being used. A regional map may show more detail in large populated areas than in less populated areas.

If a regional CD does not contain a specific name of a city or if a name is misspelled, see "Database Coverage Explanations" in the Index.

When your vehicle is delivered from the factory, the dealer may install the CD for the region in which you live. If a CD was not installed in your vehicle when first purchased, use the following directions to load a CD:

1. Turn the ignition to ON.
2. Access the CD ROM, which is located in the trunk of your vehicle.
3. Refer to the cover of the CD to determine which region to use for the area in which you are traveling.
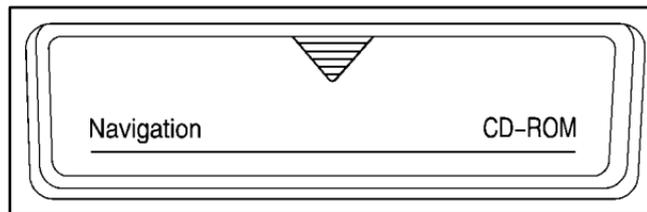
4. Slide the CD ROM door up to load a CD.
5. Insert the CD label side up, partway into the slot. The CD ROM will automatically pull the CD in.

   You can only load one CD.

6. Close the door on the CD ROM.

7. The CD ROM will take 20 seconds to initialize the CD data. When initialization is complete the "NO MAP CD IS INSERTED. PLEASE INSERT A MAP CD." message will be removed from the screen.

If a CD has been inserted incorrectly, the system will state "NO MAP CD IS INSERTED. PLEASE INSERT A MAP CD." or "THE CD INSERTED IS NOT A MAP CD. PLEASE INSERT A MAP CD." If the CD ROM door is not closed, the system will state "THE CD DOOR IS OPEN. PLEASE CLOSE IT." If the CD ROM door is not closed, close it or press the OK button.

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

- The CD was inserted label side up.

- The CD ROM door is closed.

- Make sure you are using a map CD.

Once the CD is inserted correctly, you will have the following two choices:

- LANGUAGE

- I AGREE

You can change the language to one of the five that are available (see "Selecting a Language" in the Index) or you can touch "I AGREE." Once a language is selected, if you choose to change the current language, touch I AGREE to plan a route. The map will appear with your current vehicle position on the map.

If your current vehicle position is incorrect on the map, see "Adjust Position" in the Index. See "Plan Route" in the Index for more information on planning a route.

If you wish to plan a route which will use more than one CD because you are traveling across many states, see "Traveling Across Regions" in the Index.

Map Database

The map database shows your current regional map that is contained in the CD ROM and current vehicle location on the map. To view the map database, see "Set System Options" in the Index.

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 ZOOM IN (down arrow) or ZOOM OUT (up arrow). See "Zoom In/Out" in the Index for more information on these hard keys.

Map Scales

The scale of a map can range from 1/16 of a mile (100 m) to 32 miles (64 km).

Scrolling the Map
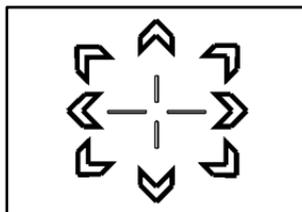
You can touch anywhere on the map and eight arrows will appear to scroll the map screen.

If the arrows are not pressed within five seconds, they will disappear until the screen is pressed again.

If scrolling while your vehicle is in PARK (P), the system will scroll initially at a slower rate. It will increase slightly if you keep touching the scroll arrows.

If scrolling while your vehicle is in motion, you will have one scroll speed and a limited distance to scroll. You have to keep touching the scroll arrows to scroll for a longer distance.

If you have used the scroll arrows to scroll the map and become lost, press the MAP/REPEAT hard key to return to the current vehicle location on the map.

You can use the scroll arrows on the map to set a destination. See "Easy Planning Route" and/or "Direct Map Select" in the Index.

Auto Scale

When you enter a non-detailed area, the system will automatically change the map to the detail that is available. Also, the system will show on the map scale bar that a lower level of a map scale is not available. When you have traveled to an area where more detail is available, you will then be able to change the map scale to a lower level based on the available map scales shown on the map scale bar. The voice guidance will change to the more detailed description.

Basic System Information

This section describes the basic information you will need to know to operate the Navigation System. You should read this section thoroughly to become familiar with it.

This system operates by using the hard keys located on either side of the Navigation System screen and the touch-sensitive buttons on the screen. The screen also shows a variety of information with different on-screen symbols.

Most of the navigation functions automatically become unavailable (not active) once the vehicle has been shifted out of PARK (P).

Hard Keys

The following hard keys are located on the outside of the Navigation screen:

- MAP/REPEAT
- PLAN ROUTE
- ZOOM IN/OUT
- NAV MENU
- MENU
- TUNE/SEEK
- ADJUST

Refer to the Index for more information on each of these hard keys to learn what they can do.

Alphabet Touch Screen

The alphabet touch screen(s) will automatically be available whenever the system needs information from you.

To make your name selections easier the system will allow you to only select the characters that are currently available. The system will automatically show the available and unavailable characters.

If you touch a wrong character, use the left arrow.

There are three pages of available symbols/characters to select from in the alphabet key pad. If the name you are trying to enter contains a number, punctuation mark, hyphen, accent mark or other symbol then touch the page up or down arrows to display the pages of available symbols. You can cycle through the pages of letters, numbers and symbols by touching the page up or down arrow keys. Touch the page up or down arrow to select the page that contains the desired symbol.

The SPACE button is available on all three alphabet key pad pages to enter a space between the words of a name.

If you are unsuccessful when inputting a name, the name may need to be selected slightly differently or the map CD (database) may not contain this information. See "Map Database Customer Assistance" in the Index.

Touch-Sensitive Buttons

Touch-sensitive buttons are located on the screen. When you touch a button on the screen, a beep will sound. If you touch a button on the screen and it doesn't beep, move your finger away from the screen and then try again. These buttons will be lighted when a feature is available (active) and dim when they are unavailable (not active). There are some toggle touch-sensitive buttons that will be green when on and blue when off.

The following buttons are the most common that appear on a screen. For more information on these touch-sensitive buttons, refer to the Index references included with the description of each button.
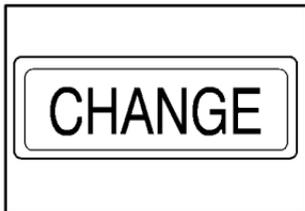

This button will appear on a map view guidance screen after inputting a route to set your destination.

See "Change Destination" in the Index.

MEMORY

This button will appear on a map view guidance screen after inputting a destination.

You can select this button to store your route as a memory point. See "Manage Memory Point" in the Index.

CHANGE

This button will appear on a map view guidance screen after route planning has been completed.

After touching this CHANGE button, the system will take you to the CHANGE PLANNING OPTIONS screen. See "Change Planning Options" in the Index.

START

This button will appear on a map view guidance screen after route planning has been completed.

When you touch START, the system will return to your guidance method, depending on what you have selected. See "PLAN ROUTE" in the Index.

DETOUR

This touch sensitive button will appear on a map view guidance screen to select a detour from your current route.

See "Detour Distance" in the Index.

TBT

MAP
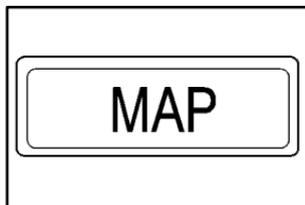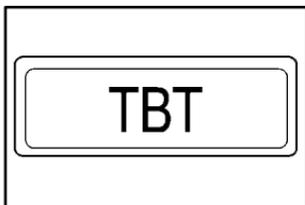
You can choose either the Turn-By-Turn (TBT) view or the MAP (map view guidance).

If you touch TBT when it appears on the map view guidance screen, the system will adjust to a turn-by-turn map screen. See "Turn-By-Turn" in the Index.

If you touch MAP when it appears on the turn-by-turn map screen, the system will adjust the screen to a map view guidance screen. See "Map View Guidance" in the Index.

The TBT and MAP buttons will both appear on the turn-by-turn with map view guidance screen. See "Turn-By-Turn with Map View Guidance" in the Index.

Symbols

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

Vehicle Symbol

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

You can adjust the position of your vehicle on the map if it is incorrect. See "Adjust Position" in the Index.

Destination Symbol
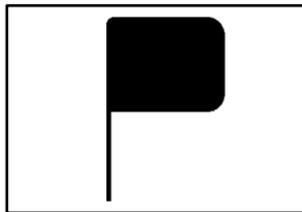
This symbol will appear on the map after a route has been planned showing your destination.

See "Plan Route" in the Index for information on planning a route.

Waypoint Symbol
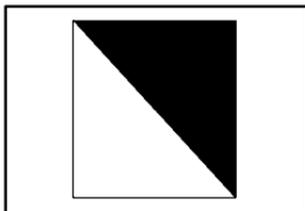
When a waypoint has been selected for your destination, you will see this symbol on the map.

For information on waypoint, see "Creating a Waypoint" in the Index.

Distance to Destination Symbol

2.6Mi
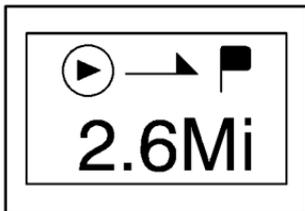
This symbol indicates the distance to your final destination.

For information on changing English to metric, see "Set System Options" in the Index.

Distance to Destination and Estimated Travel Time Symbol

10HR 10MIN
525Mi
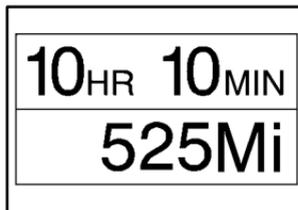
This symbol will display the distance and the estimated time remaining to your final destination when the Estimated Travel Time function is selected to be ON from the Guidance Method Screen.

See "Estimated Travel Time" and "Guidance Method" in the Index.

For information on changing English to metric, see "Set System Options" in the Index.

North Up Heading and Vehicle Up Heading Symbols
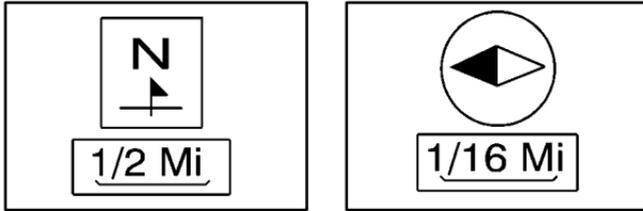
The first symbol indicates the map with North up heading.

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

The second symbol indicates the map with the vehicle travel direction up. The red triangle indicates North.

By pressing these symbols you will be changing between the two views described previously.

The number and the line information below the symbol indicates the map scale. The line can be used as a visual guide on the map screen.

GPS (Global Positioning System) Symbol
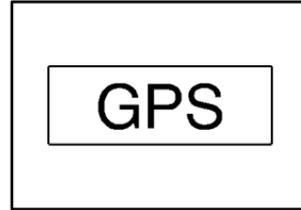
This symbol is present whenever the Navigation System is receiving a signal from at least three GPS satellites.

If the symbol is not being displayed it means the Navigation System is unable to utilize GPS at that time. See "Global Positioning System (GPS)" in the Index for more information.

Arrow Symbol
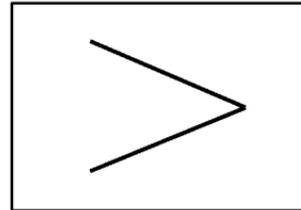
When a point of interest or street address name is too long to be displayed, an arrow symbol will appear.

Touch the right or left arrow button to display the entire name.

Next Turn Symbol
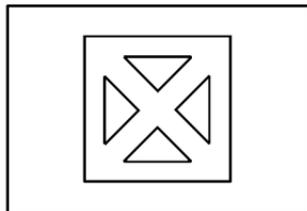
This symbol indicates the position of the next turn instruction.

Cross Wire Symbol
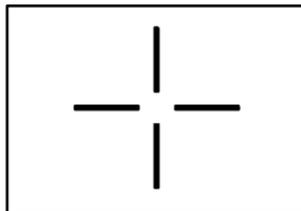
This symbol is displayed when the map is scrolled to select a destination or point.

Memory Point Symbol
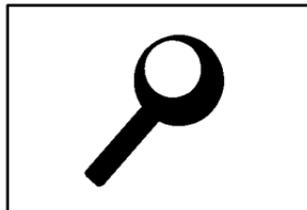
This symbol indicates the location of a memory point on the map.

Screen Adjustments

The information here explains how to adjust the screen, describes day and night changes and colors that will appear on the screen when a route has been planned.

Screen Adjust

To adjust the brightness or contrast, press the ADJUST hard key then the SCREEN ADJUST button. Once you touch SCREEN ADJUST, the following appears on the screen:

BRI.: Touch the plus (+) or minus (-) to adjust the brightness of the screen.

CONT.: Touch the plus (+) or minus (-) to adjust the contrast of the screen.

You will see the screen change as you adjust the brightness and the contrast. You must touch the SET button for the adjustments to be set on the screens. Touching SET will also take you back to the ADJUST main menu. Press the MAP/REPEAT hard key to return to the map which shows your current vehicle position.

Day and Night Screen Changes

The Navigation screen automatically adjusts for day and night. It is based on the Twilight Sentinel® feature on your vehicle. See "Twilight Sentinel®" in your owner's manual for more information. The screen will change to a lighter background for better viewing in the daytime. At night, the screen will go to a darker background.

You can also select day or night mode regardless of Twilight Sentinel. To select AUTO mode, DAY mode or NIGHT mode, press the ADJUST hard key then the SCREEN ADJUST button. Once you touch SCREEN ADJUST, the following appears on the screen:

AUTO: This setting leaves the system in the automatic mode with day and night screen changes controlled by Twilight Sentinel.

DAY: This setting leaves the screen in the day mode.

NIGHT: This setting leaves the screen in the night mode.

You must touch the SET button for the adjustments to be set on the screens. Touching SET will also take you back to the ADJUST main menu. Press the MAP/REPEAT hard key to return to the map which shows your current vehicle position.

Turning the Screen Off

To turn the screen off, first press the ADJUST hard key, then touch the SCREEN OFF button.

Press any hard key except for ZOOM or TUNE/SEEK, to turn the screen back on. The appropriate screen for that hard key will appear.

Colors on the Screen

When a route has been planned, it will be highlighted on the screen in red. If you have set a waypoint for your destination, the colors on the screen will change. The waypoint will be in red and from the waypoint to the final destination will be orange. Once you arrive at your waypoint, the route to your final destination will change to red.

Different colors are used to distinguish between interstate freeways, state highways, county roads, major streets and secondary streets. Highways will show a thicker line then a general street will.

Using the Remote Keyless Entry (RKE) Transmitter

When you insert your key into the ignition, you will see DRIVER 1 or DRIVER 2 displayed on the screen. If the driver is unknown, a message will not appear on the screen. The number on the back of the RKE transmitter corresponds to driver 1 or driver 2. For more information on the transmitter, see "Remote Keyless Entry System" in your owner's manual. The Navigation System can store memory points for each driver 1 and 2. See "Manage Memory Points" in the Index for more information.

Cellular Phone (Option)

When using the optional factory installed cellular phone, TEL will appear on the screen and the system will turn off the navigation voice prompts during the call. For information on the cellular phone, please refer to your cellular phone owner's manual or contact your dealer.

OnStar® (If Equipped)

When using the OnStar system, TEL will appear on the screen and the system will turn off the navigation voice prompts during the call. For information about OnStar, see "OnStar" in the Index of your vehicle owner's manual.

Here you'll find information about features available on your Navigation System and how to use them.

Navigation Menus

This display screen is located in the center of your instrument panel. In this section, the hard keys, touch-sensitive buttons and menus to plan a route are explained.

Map/Repeat

This hard key can be used to display the current location on the map screen and to repeat a voice prompt.

Press this hard key once to take you to your current location on the map screen.

If you have a route planned and you wish to hear the last voice prompt repeated, press this hard key twice. If you are in a menu and are not on the map, the first press of the MAP/REPEAT hard key will take you to the map that shows your current position (or Turn-By-Turn (TBT) screen depending on what your guidance methods are set for).

The second hard key press will repeat the last voice prompt. If you are in the current location map view or turn-by-turn screen, then press the MAP/REPEAT hard key once to hear the last voice prompt repeated.

To learn more about the features shown on the map screen, you can find each feature listed in the Index.

When you press the MAP/REPEAT hard key, the map screen can display the following information:

- The north or heading up symbol with the map scale in the upper left corner.
- How many miles/meters until you reach your final destination.
- The estimated time to your destination if the estimated travel time feature is on.
- The **GPS** symbol to show that the Global Positioning System is working.
- The highlighted destination or turn-by-turn instructions.
- The time or date if the clock is on.
- The radio band, if the audio source is on.

Plan Route

To plan a route, press the PLAN ROUTE hard key. After pressing this hard key, your plan route main menu screen will display the following:

```
PLAN ROUTE
Select an Option

■ (Current Destination Point)

    CHANGE PLANNING OPTIONS

    CHANGE DESTINATION

    CANCEL ROUTE

    TURN LIST
```
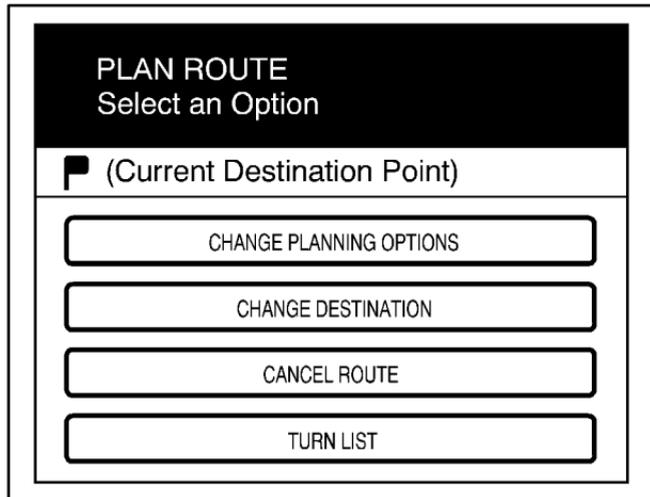
CANCEL ROUTE and TURN LIST will be unavailable until a route has been planned.

There are two methods for planning a route. They are the following:

- Easy planning method, if you can locate your destination easily by using the scroll arrows from the map view. See "Easy Planning Route" next.

- By inserting a street address, nearest point of interest, all points of interest, memory point, intersection, direct map select or a freeway entrance/exit. To use one of these methods, see "Change Destination" later in this section.

Easy Planning Route

With the easy planning route feature, you are able to select the destination you wish to go to using the scroll arrows. You can use this feature without entering the destination selection menu. To use the easy planning method, do the following:

1. First press the MAP/REPEAT hard key.
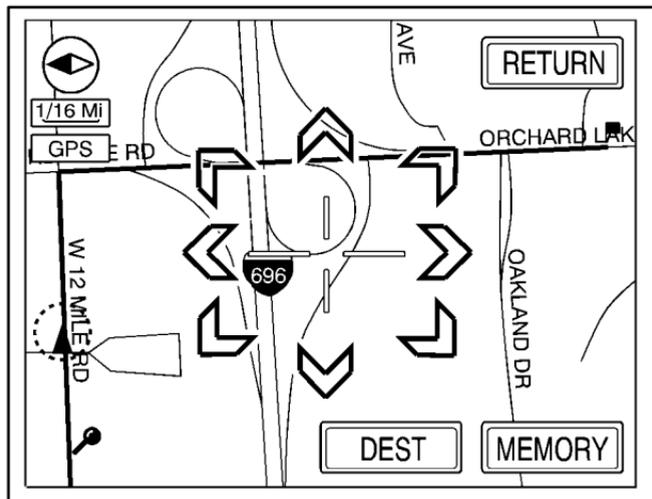
2. Touch the map to make the scroll arrows appear. Scroll the map to your desired destination. See "Scroll Arrows" in the Index.

3. Touch the DEST button to set your destination.

The system will automatically begin to plan your route.

Use the Zoom In and Zoom Out hard keys to easily locate your destination. See "Zoom In/Out" in the Index for more information.

With easy planning, the system will then use the guidance methods that you have previously selected under planning methods. It will not allow for route preview. You can also create a waypoint for this destination. See "Creating a Waypoint" in the Index for more information on this feature. If you have created a waypoint, touch the START PLANNING button to plan your route.

Change Destination

To enter a destination, touch the CHANGE DESTINATION button in the PLAN ROUTE main menu.

This menu will let you plan a route by the following seven methods:
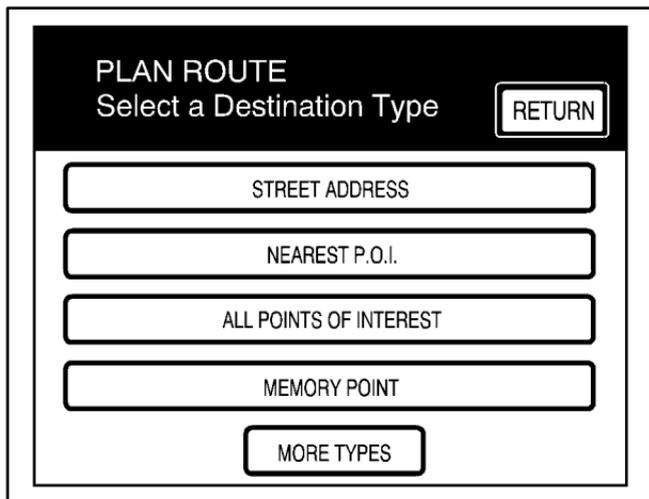
PLAN ROUTE
Select a Destination Type   RETURN

STREET ADDRESS

NEAREST P.O.I.

ALL POINTS OF INTEREST

MEMORY POINT

MORE TYPES

These methods are explained in this section.

Street Address

This feature allows you to select a route by inputting an address (without a zip code) and store it. You need to provide the system with a street number, street name and a city.

1. Touch the STREET ADDRESS button.
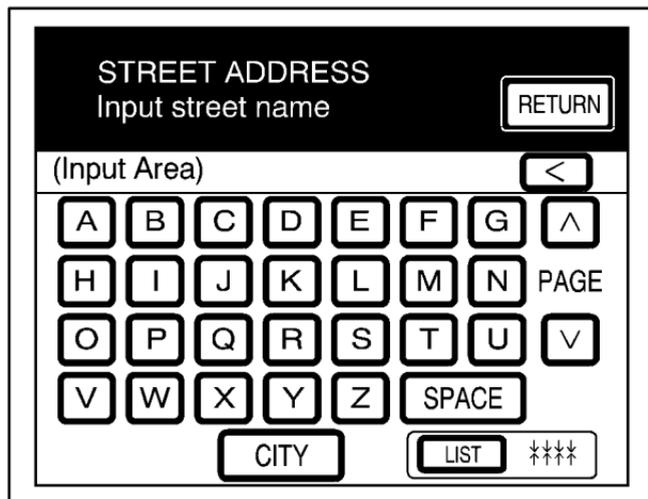
STREET ADDRESS
Input street name   RETURN

(Input Area)   <

A B C D E F G ∧

H I J K L M N PAGE

O P Q R S T U ∨

V W X Y Z SPACE

CITY   LIST ⁑⁑

2. Enter a name of a street by touching the alphabet key pad. There may be many streets within the map database with the same name. Therefore, you may have difficulty selecting the correct street name. If this occurs we recommend entering the city name first. To enter the city name touch the CITY button on the Street Address screen. Enter the name of the city by touching the alphabet key pad. Select the desired city name. 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.

If you touch a wrong character, use the left arrow to backup a character, or touch and hold the left arrow to delete all of the characters.

3. As information is entered, the system automatically searches for available names based on the information given. While inputting a name, the LIST button will become available once there are 100 or less items to choose from. Touch the LIST button to view the list of available name choices or continue to spell the name to further reduce the list of available items. The system will supply a list of names to make a selection when the number of available items is five or less.

If you are unsuccessful when inputting a name, the name may need to be input differently or the map CD (database) may not contain this information. See "Database Coverage Explanations" in the Index.

4. Enter the address number from the number key pad and then touch the SET key. The system will list the address number range available for the street. If you have entered an address number that is incorrect or not available the system will indicate that the address number is not registered and is not available.

5. If you did not already select the city name previously then the system may prompt you to select the city name from the alphabet key pad or from a provided list of names. Select the desired city name.

The system will then return to the map screen.

6. DEST and MEMORY will appear on the map. If you wish to make this destination a marked memory point, touch the MEMORY button before the DEST button. See "Manage Memory Points" in the Index for more information.

7. Touch the DEST button to set this as your destination. The system will return to the CHANGE PLANNING OPTIONS screen. This will allow you to select or delete a waypoint and change your planning methods. See "Creating a Waypoint" in the Index.

8. Touch the START PLANNING button. The system will return you to the map and will plan the route with the information it has been given. After the route is planned you will see the CHANGE button on the map. If you touch the CHANGE button before the START button, this allows you to change your set planning methods if desired.

When your route guidance has been planned, it will be highlighted and a flag symbol will appear on the map to show your destination (and a symbol for a waypoint if one has been set).
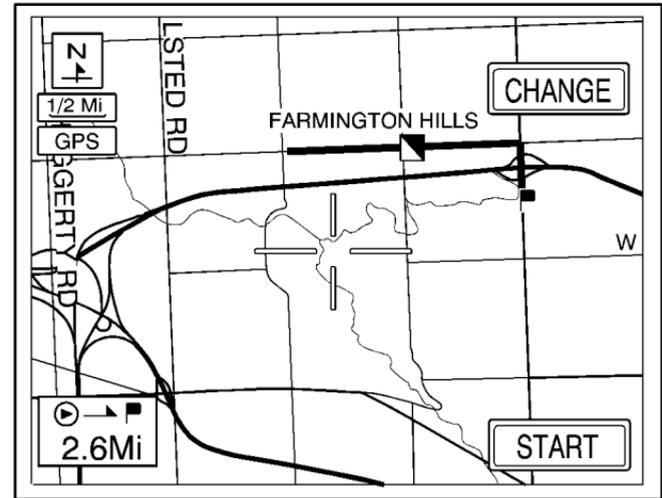
9. To start the route guidance touch the START button or start driving the vehicle and the route guidance will automatically begin after a short distance.

You can now use either the MAP GUIDANCE, TURN-BY-TURN or the TURN LIST options. See each of these features in the Index for more information. If you wish to cancel the route you have just set, touch the CANCEL ROUTE button under the PLAN ROUTE hard key main menu. See "Cancel Route" in the Index for more information.

Nearest P.O.I.

This feature allows you to choose a destination nearest to your current position on the map (within approximately 5 miles/8 km). You can select a destination from the nearest points of interest list.

1. Touch the NEAREST P.O.I. button.

2. Select a category from the nearest points of interest list. Use the up and down arrows to scroll through the categories. Once a category is selected, the system will display SEARCHING VICINITY and then a list of five or less available facilities to choose from. The points are listed in order of distance from your current position to each destination.

   When a nearest P.O.I. is not available within the search area, the system will display "Selected Point of Interest Not Found in This Area."

3. Touch the desired facility and the location will be shown on the map with a symbol marking the destination.

4. Next, the DEST and MEMORY buttons will appear on the map. If you wish to make this destination a marked memory point, touch the MEMORY button before the DEST button. See "Manage Memory Points" in the Index for more information.

5. Touch the DEST button to set this as your destination. The system will return to the CHANGE PLANNING OPTIONS screen. This will allow you to select or delete a waypoint and change your planning methods. See "Creating a Waypoint" in the Index.

6. Touch the START PLANNING button. The system will return you to the map and will plan the route with the information it has been given. After the route is planned you will see the CHANGE button on the map. If you touch the CHANGE button before the START button, this allows you to change your set planning methods if desired.

   When your route guidance has been planned, it will be highlighted and a flag symbol will appear on the map to show your destination (and a symbol for a waypoint if one has been set).

7. To start the route guidance touch the START button or start driving the vehicle and the route guidance will automatically begin after a short distance.

You can now use either the MAP GUIDANCE, TURN-BY-TURN or the TURN LIST options. See each of these features in the Index for more information. If you wish to cancel the route you have just set, touch the CANCEL ROUTE button under the PLAN ROUTE hard key main menu. See "Cancel Route" in the Index for more information.

All Points of Interest

This feature helps you to easily locate a destination by type of facility.

The following list shows the types of facilities in the CD database that you can choose from:

- Airports
- Amusement Parks
- ATMs
- Auto Service and Maintenance Facilities
- Automobile Clubs
- Banks
- Bus Stations
- Business Facilities
- City Centers
- City Hall

- Civic/Community Centers
- Commuter Rail Stations
- Convention/Exhibit Centers
- Court Houses
- Entertainment
- Ferry Terminals
- Gas Stations
- General Motor Dealerships
- Golf Courses
- Grocery Stores

- Higher Education
- Historical Monument
- Hospital
- Hotels
- Libraries
- Major Cities
- Marinas
- Museums
- Parks/Recreation Area
- Park and Ride
- Parking Garage/House
- Parking Lot
- Performing Arts
- Police Stations
- Recreation
- Rental Car Agencies
- Rest Areas
- Restaurants
- School
- Shopping
- Sport Complex
- Tourist Attractions
- Tourist Information
- Train Stations

Selecting a P.O.I.

1. Touch the ALL POINTS OF INTEREST button. An alphabet key pad will appear.

   While inputting a point of interest or city name, the LIST button will become available once there are 100 or less items to choose from. Touch the LIST button to view the list of available name choices or continue to spell the name to further reduce the list of available items.

   As information is entered, the system automatically searches for available points of interest or city names based on the information given. The system will supply a list of names to make a selection from when the choice is five or less.

2-12
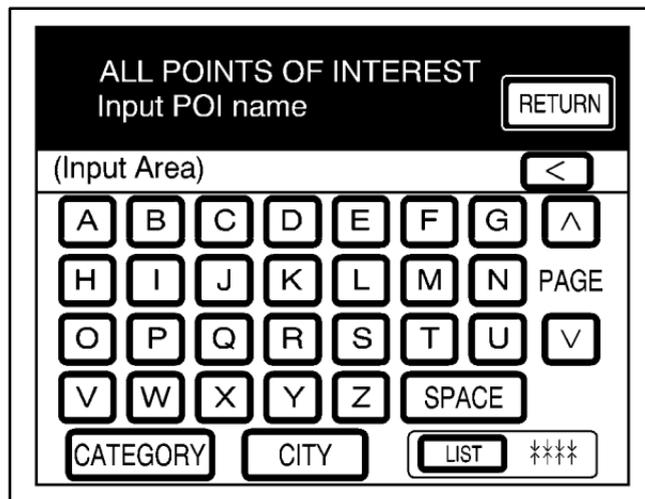
2. You have three ways to select a point of interest from this screen:

- You can type in a point of interest by name using the alphabet key pad. As you type in a name, the system will search for an available match to your input. Select the correct point of interest name.

- Select a point of interest by choosing the CATEGORY button (before touching the alphabet key pad). Use the up and down arrows or the INDEX UP or INDEX DOWN ARROWS to scroll through the categories. Select a category. If the list of available points of interests for the category selected is still too long, then you may need to enter in the point of interest name or city.

- Select the CITY button, then type in a city you wish to select a point of interest from. A list of cities will appear. Choose a city. If the list of available points of interest for the city selected is still too long, then you may need to enter the point of interest name or category.

3. The system will give a listing of all points of interest available and will also show how many there are available. For example, if you type in the name of a bank, there may be 51 locations available to select from, sorted by NAME from current position. A list of locations will appear. You also can do a sort by distance. Touch the DIST button and the system will automatically list the points of interest by distance from your current location.

4. Select the desired location from the list and the address (NAME, ADDRESS, CITY and if available the PHONE) will appear.

```
┌─────────────────────────────────────────┐
│  ┌───────────────────────────────────┐  │
│  │ ALL POINTS OF INTEREST  ┌────────┐│  │
│  │                         │ RETURN ││  │
│  │                         └────────┘│  │
│  ├───────────────────────────────────┤  │
│  │ (Category name)                   │  │
│  │  ┌─────────────────────────────┐  │  │
│  │  │ NAME:      (POI name)        │  │  │
│  │  ├─────────────────────────────┤  │  │
│  │  │ ADDRESS:   (POI Address)     │  │  │
│  │  ├─────────────────────────────┤  │  │
│  │  │ CITY:      (POI City)        │  │  │
│  │  ├─────────────────────────────┤  │  │
│  │  │ PHONE:     (POI phone number)│  │  │
│  │  └─────────────────────────────┘  │  │
│  │      ┌──────┐      ┌──────┐       │  │
│  │      │ MAP  │      │ SET  │       │  │
│  │      └──────┘      └──────┘       │  │
│  └───────────────────────────────────┘  │
└─────────────────────────────────────────┘
```

5. Touch the SET button to make this point of interest
   your destination. If you touch the MAP button,
   it will show your destination on the map.

6. Touch the DEST button to set this as your destination.
   The system will return to the CHANGE PLANNING
   OPTIONS screen. This will allow you to select or
   delete a waypoint and change your planning methods.
   See "Creating a Waypoint" in the Index.

7. Touch the START PLANNING button. The system
   will return you to the map and will plan the route
   with the information it has been given. After the
   route is planned you will see the CHANGE button
   on the map. If you touch the CHANGE button before
   the START button, this allows you to change your
   set planning methods if desired.

   When your route guidance has been planned, it will
   be highlighted and a flag symbol will appear on the
   map to show your destination (and a symbol for a
   waypoint if one has been set).

8. To start the route guidance touch the START button
   or start driving the vehicle and the route guidance
   will automatically begin after a short distance.

You can now use either the MAP GUIDANCE,
TURN-BY-TURN or the TURN LIST options.
See each of these features in the Index for more
information. If you wish to cancel the route you have
just set, touch the CANCEL ROUTE button under the
PLAN ROUTE hard key main menu. See "Cancel
Route" in the Index for more information.

2-14

Memory Point

MEMORY POINT
Select a category
RETURN

PERSONAL

BUSINESS

ENTERTAINMENT

MARKED POINT

DEST MEMORY

This menu allows you to select a destination by choosing a memory point. Each time you enter a destination and store it by choosing the MEMORY or DEST button, the destination is stored, either under MARKED POINT or DEST MEMORY. See "Manage Memory Points" in the Index for more information on memory points.

You must have destinations stored as memory points to select a destination from PERSONAL, BUSINESS, ENTERTAINMENT, MARKED MEMORY or DESTINATION MEMORY (If you have renamed the memory point category name(s), the name(s) will appear as you change them).

To select a destination from this menu, do the following:

1. Touch the MEMORY POINT button.

2. Select one of the categories.

3. Then select your desired destination from your memory points. Use the up and down arrows to scroll through the memory points.

4. Next, the DEST and RETURN buttons will appear on the map. Touching the RETURN button exits you out of this menu.

5. Touch the DEST button to set this as your destination. The system will return to the CHANGE PLANNING OPTIONS screen. This will allow you to select or delete a waypoint and change your planning methods. See "Creating a Waypoint" in the Index.
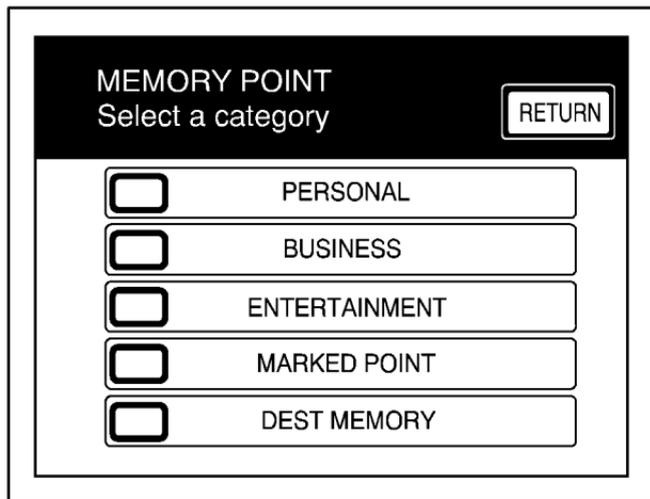
6. Touch the START PLANNING button. The system will return you to the map and will plan the route with the information it has been given. After the route is planned you will see the CHANGE button on the map. If you touch the CHANGE button before the START button, this allows you to change your set planning methods if desired.

   When your route guidance has been planned, it will be highlighted and a flag symbol will appear on the map to show your destination (and a symbol for a waypoint if one has been set).

7. To start the route guidance touch the START button or start driving the vehicle and the route guidance will automatically begin after a short distance.

You can now use either the MAP GUIDANCE, TURN-BY-TURN or the TURN LIST options. See each of these features in the Index for more information. If you wish to cancel the route you have just set, touch the CANCEL ROUTE button under the PLAN ROUTE hard key main menu. See "Cancel Route" in the Index for more information.

More Types

By touching the MORE TYPES button, it will give you the following choices to choose a destination:

```
PLAN ROUTE
Select a Destination Type          RETURN

          INTERSECTION

         DIRECT MAP SELECT

       FREEWAY ENTRANCE / EXIT
```

Intersection

Intersection allows you to select a destination by inputting the intersecting roads you wish to travel to. To enter an intersection, do the following:

1. Touch the INTERSECTION button.

```
INTERSECTION
Input 1st street               RETURN

(Input Area)                      <

A  B  C  D  E  F  G  ∧
H  I  J  K  L  M  N  PAGE
O  P  Q  R  S  T  U  ∨
V  W  X  Y  Z  SPACE
                    LIST  ↑↑↑↑
```

2. Enter the names of the intersecting street names using the alphabet key pad. See "Alphabet Touch Screen" in the Index for more information.

3. Once you enter the first street name, the system will either prompt you to enter the second street name using the alphabet key pad or will automatically give you an alphabetical list of the intersecting streets if the number of intersecting streets is five or less.

4. Select the second street name. The map will show the intersection of these two streets.

   If there are multiple intersections of the same two roads, the system will give a list in alphabetical order of cities to choose from. Choose a city from this list. A map with the intersections for that city will appear.

5. Next, the DEST, MEMORY and RETURN buttons will appear on the map. If you wish to make this destination a marked memory point, touch the MEMORY button before the DEST button. See "Manage Memory Points" in the Index for more information. Touching the RETURN button exits you out of this menu.

6. Touch the DEST button to set this as your destination. The system will return to the CHANGE PLANNING OPTIONS screen. This will allow you to select or delete a waypoint and change your planning methods. See "Creating a Waypoint" in the Index.

7. Touch the START PLANNING button. The system will return you to the map and will plan the route with the information it has been given. After the route is planned you will see the CHANGE button on the map. If you touch the CHANGE button before the START button, this allows you to change your set planning methods if desired.

   When your route guidance has been planned, it will be highlighted and a flag symbol will appear on the map to show your destination (and a symbol for a waypoint if one has been set).
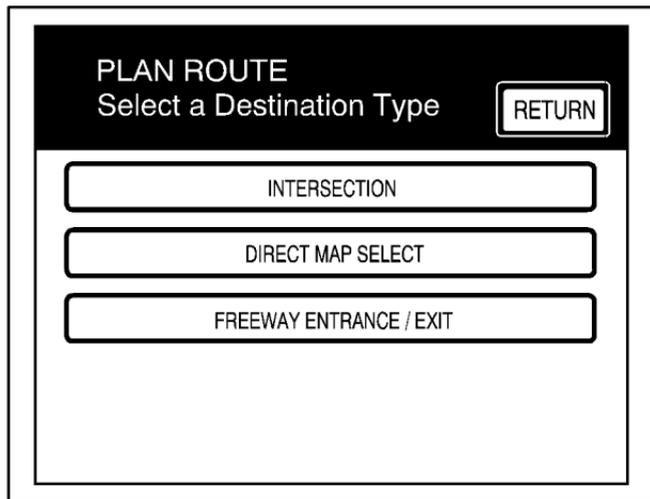
2-18

8. To start the route guidance touch the START button or start driving the vehicle and the route guidance will automatically begin after a short distance.

You can now use either the MAP GUIDANCE, TURN-BY-TURN or the TURN LIST options. See each of these features in the Index for more information. If you wish to cancel the route you have just set, touch the CANCEL ROUTE button under the PLAN ROUTE hard key main menu. See "Cancel Route" in the Index for more information.
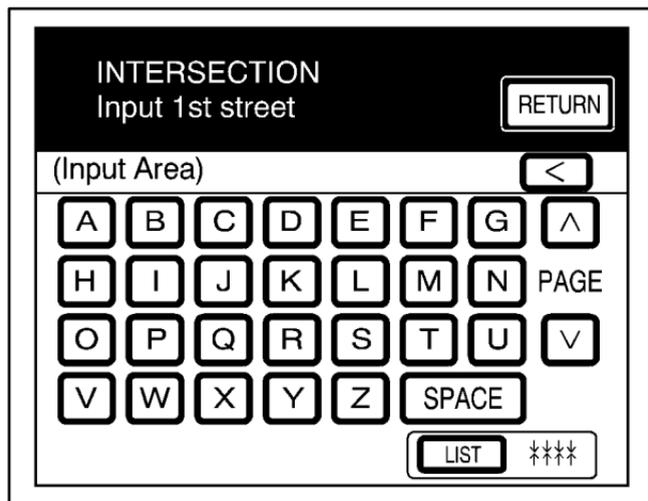
Direct Map Select

This allows you to select a destination by using the scroll arrows. To use this feature, do the following:

1. Touch the DIRECT MAP SELECT button. Once this button is selected, you will return to the current position of your vehicle's location on the map.
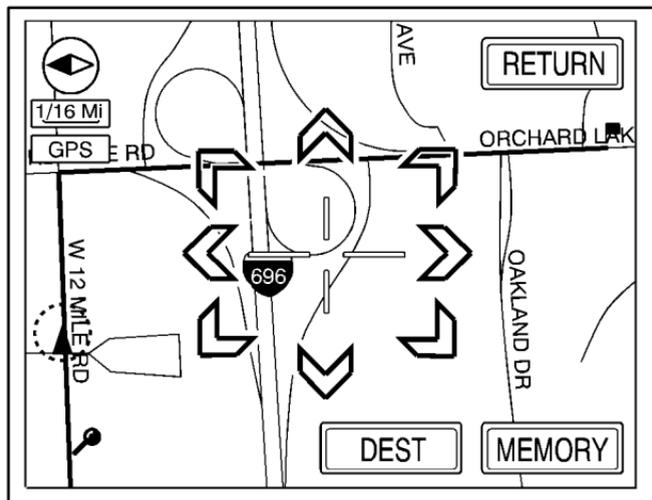
2. Use the scroll arrows to select your desired destination. See "Scroll Arrows" in the Index. The ZOOM IN and ZOOM OUT hard keys can be used at this time to assist you in finding the desired location. See "Zoom In/Out" in the Index

3. The DEST and MEMORY buttons will appear on the map. If you wish to make this destination a marked memory point, touch the MEMORY button before the DEST button. See "Manage Memory Points" in the Index for more information.

4. Touch the DEST button to set this as your destination. The system will return to the CHANGE PLANNING OPTIONS screen. This will allow you to select or delete a waypoint and change your planning methods. See "Creating a Waypoint" in the Index.

5. Touch the START PLANNING button. The system will return you to the map and will plan the route with the information it has been given. After the route is planned you will see the CHANGE button on the map. If you touch the CHANGE button before the START button, this allows you to change your set planning methods if desired.

   When your route guidance has been planned, it will be highlighted and a flag symbol will appear on the map to show your destination (and a symbol for a waypoint if one has been set).

6. To start the route guidance touch the START button or start driving the vehicle and the route guidance will automatically begin after a short distance.

You can now use either the MAP GUIDANCE, TURN-BY-TURN or the TURN LIST options. See each of these features in the Index for more information. If you wish to cancel the route you have just set, touch the CANCEL ROUTE button under the PLAN ROUTE hard key main menu. See "Cancel Route" in the Index for more information.

Freeway Entrance/Exit

You can select either a freeway entrance or an exit as a destination or a waypoint. To enter a freeway name, do the following:

1. Touch the FREEWAY ENTRANCE/EXIT button.
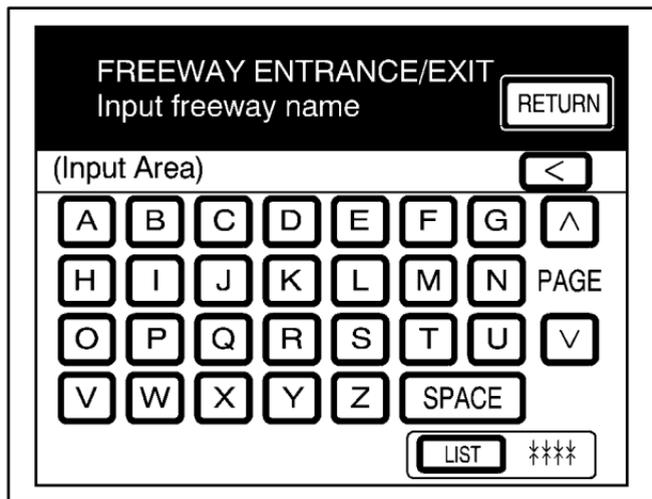
2. Enter the freeway name using the alphabet key pad.

3. As information is entered, the system automatically searches for available names based on the information given. While inputting a name, the LIST button will become available once there are 100 or less items to choose from. Touch the LIST button to view the list of available name choices or continue to spell the name to further reduce the list of available items. The system will supply a list of names to make a selection when the number of available items is five or less.

   If you are unsuccessful when inputting a name, the name may need to be input differently or the map CD (database) may not contain this information. See "Map Database Customer Assistance" in the Index.

4. Select a freeway from the list.

   Freeways may have a name and a number associated with them. You may need to refer to this associated name or number when entering the freeway information. Freeways are also referred to by their abbreviated names. For example, Interstate 75 is selected by entering I-75.

5. ENTRANCE or EXIT options appear. Press ENTRANCE to select the entrance to the freeway that you selected in Step 2. Press EXIT to select the exit ramp off of the freeway you selected in Step 2.

When either button is touched, it will give an alphabetical list of every freeway entrance and exit ramp on the freeway you entered. You may touch the DIST button to sort the selection by distance from your current location. To change back to a sort by name, touch the NAME button.

6. Select the desired freeway entrance or exit. A map will appear with the destination shown.

7. The DEST button and the MEMORY button will appear on the map. If you wish to make this destination a marked memory point, touch the MEMORY button before the DEST button. See "Manage Memory Points" in the Index for more information.

8. Touch the DEST button to set this as your destination. The system will return to the CHANGE PLANNING OPTIONS screen. This will allow you to select or delete a waypoint and change your planning methods. See "Creating a Waypoint" in the Index.

9. Touch the START PLANNING button. The system will return you to the map and will plan the route with the information it has been given. After the route is planned you will see the CHANGE button on the map. If you touch the CHANGE button before the START button, this allows you to change your set planning methods if desired.

When your route guidance has been planned, it will be highlighted and a flag symbol will appear on the map to show your destination (and a symbol for a waypoint if one has been set).

10. To start the route guidance touch the START button or start driving the vehicle and the route guidance will automatically begin after a short distance.

You can now use either the MAP GUIDANCE, TURN-BY-TURN or the TURN LIST options. See each of these features in the Index for more information. If you wish to cancel the route you have just set, touch the CANCEL ROUTE button under the PLAN ROUTE hard key main menu. See "Cancel Route" in the Index for more information.
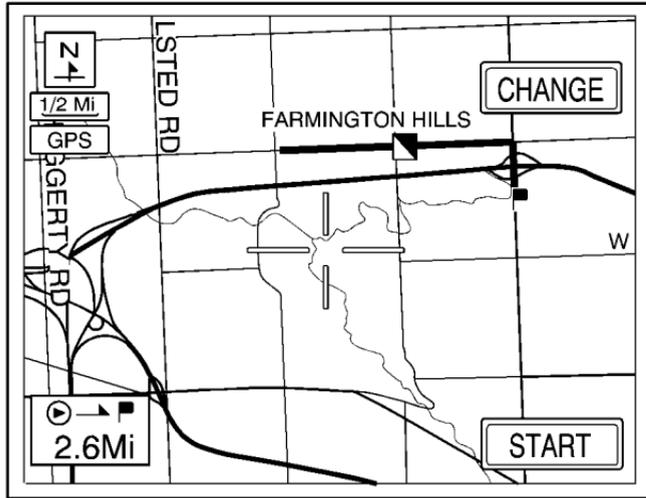
Traveling Across Regions

If you plan to drive across many states, you may have to insert different regional map CDs for the area you are traveling to. Each regional CD overlaps regional borders by approximately 100 miles (161 km).

There are three ways you can meet a destination when traveling across regions.

This first method is suggested and provides the most route guidance and map display functions of the three methods.

First Method

1. Load the CD of the region you are traveling to into the CD ROM. Make sure that the ignition is ON when loading a CD.

2. Enter your destination and planning method.

3. Touch the START PLANNING button. The system will return you to the map and will plan the route with the information it has been given. After the route is planned you will see the CHANGE button on the map. If you touch the CHANGE button before the START button, this allows you to change your set planning methods if desired.

When your route guidance has been planned, it will be highlighted and a flag symbol will appear on the map to show your destination (and a symbol for a waypoint if one has been set).

4. To start the route guidance touch the START button or start driving the vehicle and the route guidance will automatically begin after a short distance.

   You can now use either the MAP GUIDANCE, TURN-BY-TURN or the TURN LIST options. See each of these features in the Index for more information. If you wish to cancel the route you have just set, touch the CANCEL ROUTE button under the PLAN ROUTE hard key main menu. See "Cancel Route" in the Index for more information.

5. After you have touched START, load the CD of the region that you are currently located in. The system will automatically plan the route again using the map database information from this CD. The route is ready to be driven.

6. As you leave the region for the CD that is loaded you will see that only the map scale views 4 mi, 8 mi, 32 mi, and 128 mi (8 km, 16 km, 64 km and 256 km) are available, voice guidance is not available and a message "Out of CD coverage area. Guidance isn't available" is displayed for several seconds. At this time load the CD of the region you are entering. Refer to the "Regional Maps" to view the regional area divisions of the United States. The system will automatically plan the route again using the map database information from this CD. The route is ready to be driven and the map scales and voice guidance is again available to you for route guidance. Repeat Step 5 until you have reached your destination.

Second Method

Keep your current CD in the CD ROM and enter your destination. This method allows you to only select a destination from the Direct Map Select and the Points Of Interest, Major Cities category. See "Direct Map Select" and "Points Of Interest" in the Index. The system will be able to plan a route to a destination using the CD, but once you cross regional borders, the database will usually only cover major expressways. Once you cross the regional border, the only map scale views available are 4 mi, 8 mi, 32 mi, and 128 mi (8 km, 16 km, 64 km and 256 km) and voice prompts are not available.

When you are closer to your destination, you can load the correct regional CD for a more detailed map.

For example, if you were traveling from Michigan to Florida, leave the regional map CD in the CD ROM for Michigan. Insert a destination to Florida under the CHANGE DESTINATION menu. Once you are closer to Florida and need more detailed information, insert the correct regional CD.

Third Method

Load the CD of the region you are traveling to in the CD ROM. Enter your destination. The system will be able to plan a route using the CD, but the database will basically only cover major expressways in your current region -- the area you are traveling from. The only map scale views available in your current region are 4 mi, 8 mi, 32 mi, and 128 mi (8 km, 16 km, 64 km and 256 km) and voice prompts are not available. The system will show a more detailed map once you cross into the regional border of the CD that is loaded in the CD ROM. All map scales and voice prompts will again be available.

For example, if you were traveling from Michigan to Florida, you will only see major expressways through Michigan and Ohio. Once you have traveled into the next region, you will see the correct level of detail for that region.

For directions on inserting a map CD, see "Regional Maps" in the Index for information.

Change Planning Options

Touch this button to change your planning options.

```
PLAN ROUTE
Select a cal. method            [RETURN]
⚑ (Current Destination Point)
◣ (Current Waypoint)
┌──────────────────────────────────┐
│ WAYPOINT:   [ SET ]   [ DELETE ]  │
│          PLANNING METHOD          │
│   [ FASTEST ]    [ FWY&TOLL ]     │
│   [ AVOID TOLL ] [ AVOID FWY ]    │
│     [    START PLANNING    ]      │
└──────────────────────────────────┘
```

This screen is used after you have a destination set. It allows you to do the following options for your planned route:

- Create or delete a waypoint,
- choose a planning method and
- start planning your route.

See "Change Destination" earlier in this section to learn how to plan a route.

Creating a Waypoint

When you have chosen a destination, you can also choose a waypoint. A waypoint can be your next stop, a mid-way point, etc.

If you change your destination, the waypoint automatically is deleted. A destination must first be set before entering a waypoint. Only one waypoint can be entered for a destination.

Once a waypoint has been selected the system will automatically guide you to your waypoint then to your destination.

To enter a waypoint after your destination has been selected, do the following:

1. Touch the WAYPOINT SET button on the screen.

2. The PLAN ROUTE menu will appear to select a destination. Select a destination.

3. When you have selected a destination for the waypoint, the system will return you to the map. The WAY PNT and the MEMORY buttons will appear. If you wish to make this waypoint a marked memory point, touch the MEMORY button before the WAY PNT button. See "Manage Memory Points" in the Index for more information.

4. Touch the WAY PNT button to set this as your waypoint. The system will return to the CHANGE PLANNING OPTIONS screen. You will see the name of your destination and waypoint at the top of the screen.

5. Touch the START PLANNING button. The system will return to the map and will plan the route with the information it has been given. After the route is planned you will see the CHANGE button on the map. If you touch the CHANGE button before the START button, this allows you to change your set planning methods if desired.
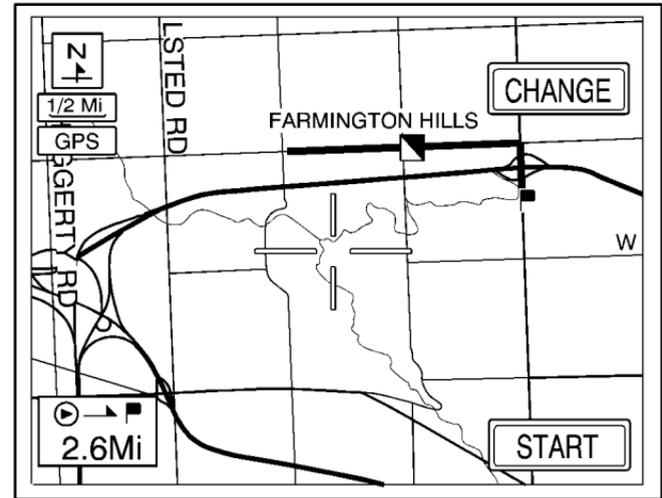
6. To start the route guidance press the START button or start driving the vehicle and the route guidance will automatically begin after a short distance.

   After the route has been planned, you will notice the color of the highlighted route will change when the waypoint is inserted. For more information, see "Colors On the Screen" in the Index.

When your route has been planned and you are viewing the map, you will see your route highlighted. The waypoint (route to the first destination) marked with a symbol and a flag will appear on the map to show the final destination.

If you wish to delete a waypoint, other than using the CHANGE button described previously, touch the CHANGE PLANNING OPTION button. Touch the DELETE button to remove the waypoint. To begin planning your route with the waypoint deleted, you must repeat Steps 5 and 6.

Planning Method

With the planning method options, you are able to select the fastest route possible, avoid toll roads, use freeways and toll roads or avoid freeways based on the systems information and information contained on the map CD.

FASTEST: With this option, the system will calculate the fastest route possible. The system determines the fastest route based on the amount of turns necessary and the type of navigable roads available.

AVOID TOLL: With this option, the system will calculate the best route by avoiding toll roads unless a route cannot be found without the use of a toll road. This selection will not always offer the shortest distance or time to your destination.

FWY & TOLL: With this option, the system will calculate the best route using freeways and toll roads wherever possible. This selection will not always offer the shortest distance or time to your destination.

AVOID FWY: With this option, the system will calculate the best route avoiding freeways wherever possible. This selection will not always offer the shortest distance or time to your destination.

After you have set your destination and the system returns to this menu, set your planning methods by choosing one of the methods listed previously.

Touch the START PLANNING button. The system will return to the map and will plan the route with the information it has been given. After the route is planned you will see the CHANGE button on the map. If you touch the CHANGE button before the START button, this allows you to change your set planning methods if desired.

To start the route guidance press the START button or start driving the vehicle and the route guidance will automatically begin after a short distance.

Cancel Route

If you are traveling on a planned route and would like to cancel it, touch the CANCEL ROUTE button. The system will ask you to confirm by touching the YES or NO buttons. Touch the YES button to cancel your planned route or touch the NO button to not cancel your planned route.

Turn List

You must have a route planned for this button to be active.
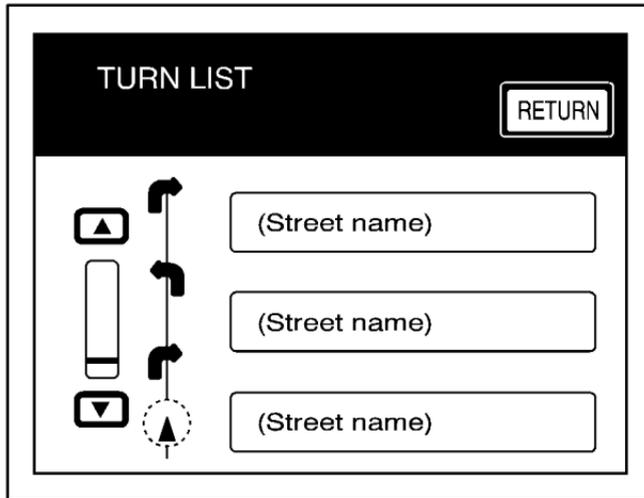
Touching the TURN LIST button gives you a step-by-step listing of the upcoming street names, the distance that you will travel on the road and turns you will need to make during your planned route. After touching the TURN LIST button, the system may take some time to create the turn list. The length of time will vary on the length of your route and the planning methods that you have selected.

This list reads from bottom to top. The bottom street name is the street you are currently on. The system automatically updates this screen as you make each turn. You are also able to touch the scroll up and down arrow buttons providing scroll is available. Touching the down arrow button brings you to your current location. Touching the up arrow button will give you upcoming streets. At times, there may not be names available for entrance or exit ramps.

To view your current position and to turn the turn list screen off, press the MAP/REPEAT hard key.

Touch the RETURN button to take you to the PLAN ROUTE main menu screen.

Zoom In/Out

You can use this hard key to do the following:

- Zoom in on a map that you are traveling on.

- Locate a destination easily by zooming in to see a smaller scale of the map if you are close to your destination.

- Zoom out to see a larger scale of the map if your destination that you wish to reach is a long distance from your current location.

- View your highlighted route, set waypoint (if one has been set) and trace (if you have turned this feature on).

If you zoom out of the map and trace is turned on, you will not be able to view the trace of your vehicle at a larger scale of the map.

NAV Menu

Under the Navigation menu, you can do the following:

NAVIGATION MENU
Select an Option

MANAGE MEMORY POINTS

SET VOICE VOLUME

GUIDANCE METHOD

SET SYSTEM OPTIONS

AVOID POINT/AREA
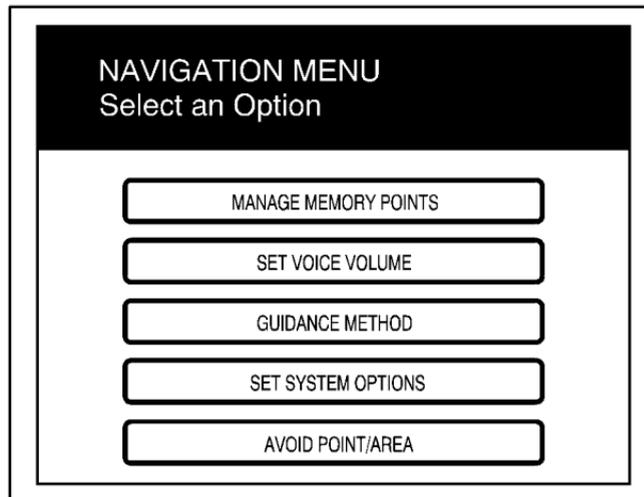
Manage Memory Points

Touch the MANAGE MEMORY POINTS button to store, delete and edit memory points.

You can store memory points for the following categories:

```
┌─────────────────────────────────────────┐
│  MANAGE MEMORY POINTS  ┌────────┐        │
│  Select a category     │ RETURN │  ·     │
│                        └────────┘        │
│  ┌──┐                                    │
│  │  │        PERSONAL                     │
│  └──┘                                     │
│  ┌──┐                                    │
│  │  │        BUSINESS                     │
│  └──┘                                     │
│  ┌──┐                                    │
│  │  │      ENTERTAINMENT                  │
│  └──┘                                     │
│  ┌──┐                                    │
│  │  │      MARKED POINT                   │
│  └──┘                                     │
│  ┌──┐                                    │
│  │  │       DEST MEMORY                   │
│  └──┘                                     │
│  ┌───────────────────┐  ┌──────────────┐ │
│  │FREE SPACE: 16  NEW│  │  DELETE ALL  │ │
│  └───────────────────┘  └──────────────┘ │
└─────────────────────────────────────────┘
```
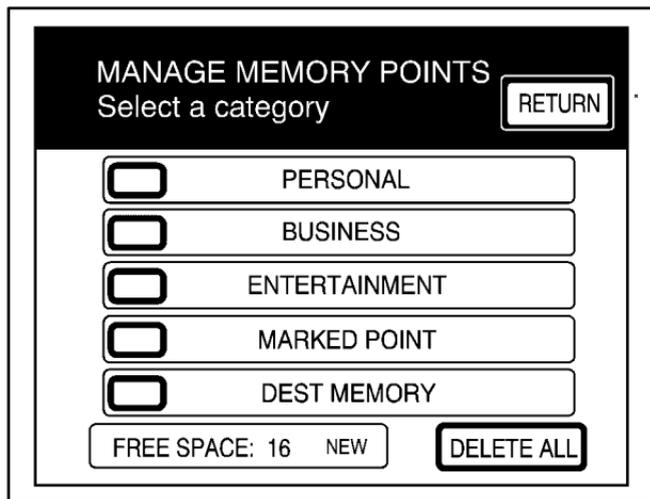
Memory points are stored when you select either the DEST or the MEMORY buttons when setting a destination on the map.

Once a memory point is stored, you can move it to one of the three categories. See "Moving Memory Points" later in this section to move memory points.

Sixty locations total can be stored for PERSONAL, BUSINESS, ENTERTAINMENT and MARKED POINTS. Under DEST MEMORY, as destinations are entered, only the last 10 destinations are stored.

If all 60 stored points are entered, the system will notify you that there is no available storage left in memory points. A stored memory point must be removed in order to add one.

Inputting Memory Points

You can enter a memory point using one of the following two options:

- After inputting a destination, touch the MEMORY button to save in MARKED POINTS or touch the DEST button to save in DESTINATION MEMORY.

- If you touch the NEW button on the Manage Memory Point main menu, it will give a list of choices for entering a memory point.

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```
MANAGE MEMORY POINTS          RETURN
Input category name

(Input Area)                    <
A  B  C  D  E  F  G    ∧
H  I  J  K  L  M  N   PAGE
O  P  Q  R  S  T  U    ∨
V  W  X  Y  Z  SPACE
                       SET
```
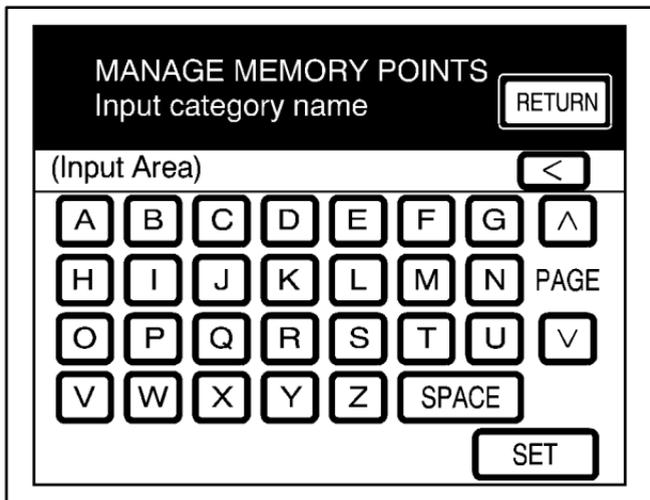
To enter a memory point, first enter a destination by
using the alphabet key pad. The destination can consist
of 15 alpha and/or numeric characters. If an incorrect
letter or number is entered, you can use the left arrow
key to correct. See "Alphabet Touch Screen" in the
Index for more information.

Once you type in the destination, touch the SET button
on the screen. Select the category you wish to add this
destination to.

Editing Memory Points

With this feature you have the ability to edit the name of
the categories or the contents stored in memory.

The following items can be edited:

• Name of a Memory Point and Category
• Moving Memory Points
• Marked Memory Points
• Adjust the Location of the Memory Point on the Map
• Delete a Memory Point
• Delete All Points in one Category
• Delete All Points in All Categories

Name Editing

With name editing you have two on-screen choices of
edits to make:

• Edit the name of a stored item, or
• Edit the name of the category.

To change the name of an item, do the following:

1. Select the category where the memory point exists.
2. Select the memory point desired to edit.

3. Touch the NAME button. The alphabet key pad will appear. Type in the new name.

4. Touch the RETURN button to take you back to the previous screen.

To change the name of a category, do the following:

1. Select the category desired.

2. Touch the EDIT CTGRY button.

3. Touch the NAME button. The alphabet key pad will appear. Type in the new name.

4. Touch the RETURN button to take you back to the previous screen.

The names can consist of up to 15 alpha and/or numeric characters. If an incorrect letter or number is entered, you can use the left arrow key to back up.

Moving Memory Points

This feature will allow you the ability to select a memory point and move the contents from one category to one of the other three categories.

To move an item:

1. Select the category where the memory point exists.

2. Select the memory point desired to edit.

3. Touch the CATEGORY button. A list of the four categories will appear.

4. Touch the CATEGORY button that you want the item to be placed in.

5. Touch the RETURN button to take you back to the previous screen.

Mark Editing

With mark editing, you have the ability to modify the
default mark that each memory point is provided
with. Just:

1. Select the category where the item exists.

2. Select the item you wish to edit.

3. Touch the icon button. The marked memory points
   list will appear.
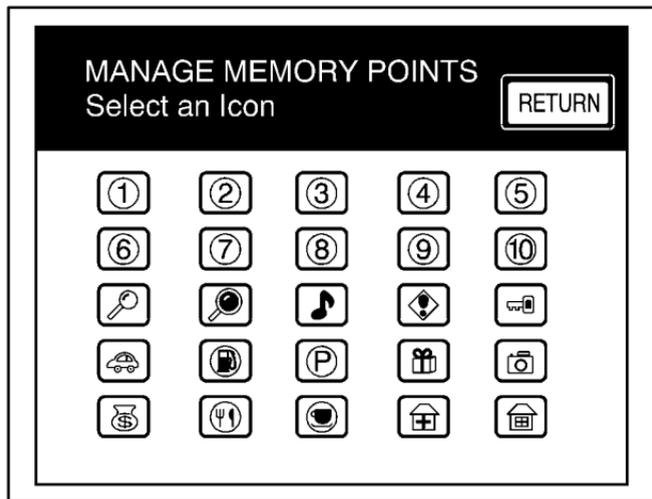
4. Touch the icon of choice.

5. Touch the RETURN button to take you back to the
   previous screen.

This allows the stored memory contents to be
personalized. You will also see the stored memory point
location on the map.

When the icon is selected, you will be provided with
25 different marks that can be selected for that memory
location. The same mark may be used on other memory
points as well.

Adjusting Memory Points

Adjusting a memory point will allow you to relocate the memory point from any of the methods that are available for selecting a point of destination.

1. Touch the category which the item is placed in.

2. Touch the item you wish to edit.

3. Touch the POSITION button. A map screen with the position of this item will appear.

4. Touch anywhere on the screen to use the scroll arrows. See "Scroll Arrows" in the Index.

5. Touch the MEMORY button.

6. Touch the RETURN button to take you back to the previous screen.

The name of your item will relocate to the new location. To change the name of this item see "Name Editing" earlier in this section.

Deleting Memory Points

You have a choice to delete the following:

- A single memory point.
- All memory points in one category.
- All memory points in all categories.

To delete a single memory point:

1. Select the category where the memory point exists.

2. Select the memory point desired to delete.

3. Touch the DELETE button.

To delete all of the memory points in a category:

1. Select the category desired.

2. Select the EDIT CTGRY button.

3. Touch the DELETE THIS CATEGORY button.

To delete all memory points in all categories, select the DELETE ALL button.

Marked Point

MANAGE MEMORY POINTS
Select an Icon   RETURN

① ② ③ ④ ⑤
⑥ ⑦ ⑧ ⑨ ⑩
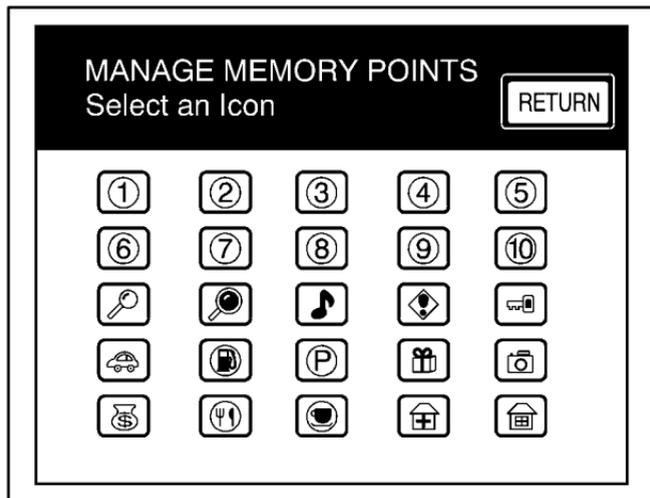
A marked point is a memory point which has been stored by selecting the MEMORY button when the choice is given on a map screen or by moving a destination memory point to the marked point category. See "Moving Memory Points" in this section to move memory points.

Destination Memory

Each time you select the DEST button from the map screen, that destination will be stored as a memory point under DESTINATION MEMORY. Destination memory will store up to 10 destination points.

Destination memory will not let you know when you have stored more than 10 destinations. The system will remove the first destination and add the most recent one selected to the bottom of the list.

If you do not want a destination that is stored to be lost, you must move the destination into PERSONAL, BUSINESS, ENTERTAINMENT or MARKED POINTS. See "Moving Memory Points" in this section.

Set Voice Volume

SET VOICE VOLUME
Adjust the volume   RETURN

AUTO VOICE PROMPT   ON   OFF

⊖ ||||||||||||| ⊕
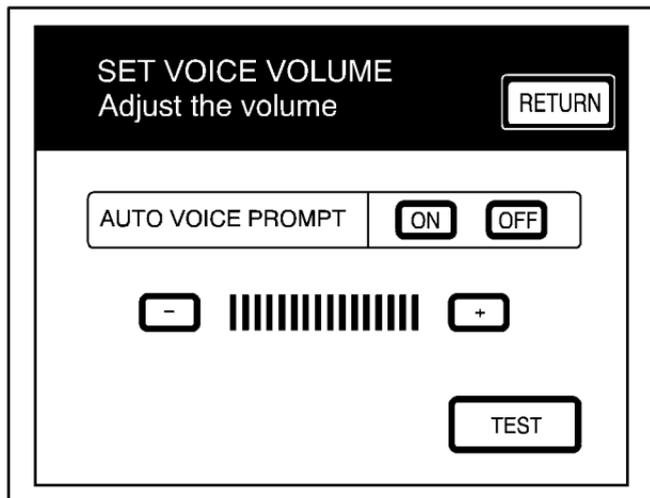
TEST

Touch the SET VOICE VOLUME button to change the volume of your voice prompts.

Once on this screen, touch the minus (-) button to decrease the volume. Touch the plus (+) button to increase the volume. After adjusting the volume, you can touch the TEST button to test the volume. If your radio is on, it will be muted for the voice prompt test.

Touch the RETURN button to go back to the NAV main menu.

Voice prompts can be turned on or off. If you choose to turn the voice prompts off, they will stay off until they are turned back on.

The last voice prompt can be repeated by using the MAP/REPEAT hard key. See "MAP/REPEAT" in the Index for more information.

Remember, if the radio is on, the radio will be muted whenever a voice prompt comes on.

Guidance Method

With the guidance method menu screen, you have the following options to choose from when you have a route planned:

These guidance methods can be set before a route is planned. Each time a destination is set, the system will use these guidance methods for your planned route. You can change these methods at any time during your route as long as the ignition is on and your vehicle is stopped.
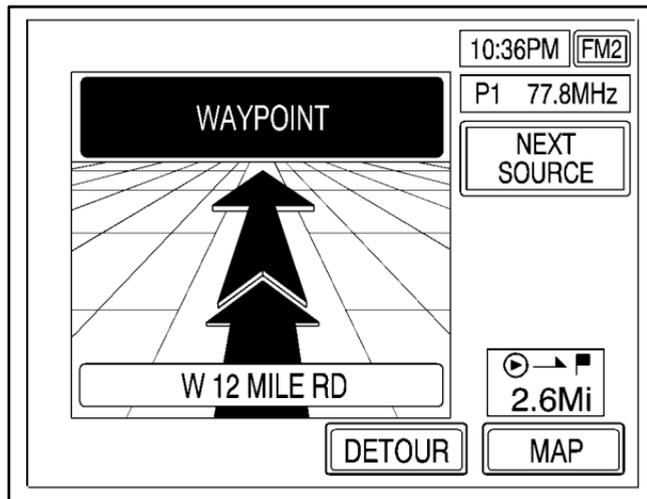
This feature will display the entire intersection along with the next maneuver that you will be required to do after you have entered a destination. This feature also provides the street name when available, and will display the distance to the next maneuver on the map. It will also give additional information that will be of assistance to you, such as voice prompts stating "stay on the street" or "turn on to."

This feature will also change the display once the next maneuver is within a short distance, and show a bar-type graph indicating how far until the next required maneuver.

To use this feature, select Turn-By-Turn from this menu by touching the TBT button.

Touch the RETURN button to go back to the NAV main menu.

Map Guidance

Map guidance will display the street map with the route of travel highlighted. You will see the vehicle on the map as a pointed arrow. You will also see the progress of route travel on the map as you follow the highlighted route. The map will display the street names to let you know that the Navigation System actually knows where your vehicle is.

Select map guidance from this menu by touching the MAP button.

Touch the RETURN button to go back to the NAV main menu.

Turn-By-Turn with Map Guidance
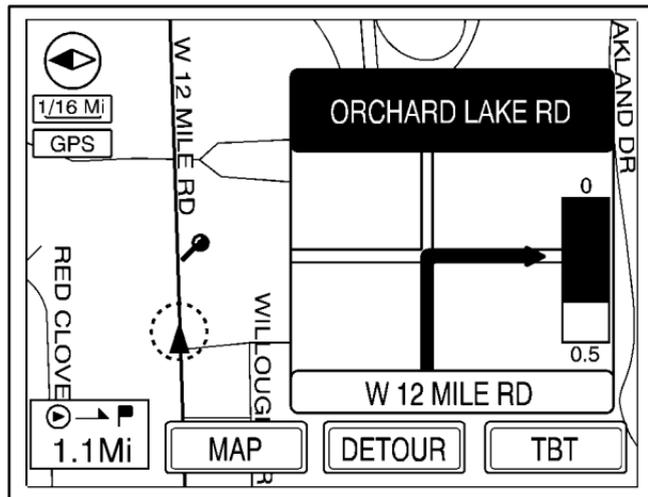
This feature is a combination of both Turn-By-Turn and map guidance. See "Turn-By-Turn" and "Map Guidance" earlier in this section for more information.

To view this screen:

1. TBT must be selected from the Guidance Method menu. See "Turn-By-Turn" earlier in this section.
2. Once in a Turn-By-Turn screen, touch the MAP button, you will now view both screens.
3. To view only one screen, touch the TBT or the MAP buttons.

Touch the RETURN button to go back to the NAV main menu.

Auto Reroute

When your destination is set and you are off the planned route, the system will automatically begin to reroute much sooner if you are traveling on surface streets than on freeways or toll roads. You will be able to see the new route highlighted on the screen.

To turn this feature on, touch the AUTO REROUTE ON button. To turn it off, touch the AUTO REROUTE OFF button.

Touch the RETURN button to go back to the NAV main menu.

Trace Point

The Navigation System has the ability to store and record the location the vehicle has been driven for the last 32 miles (50 km). This is done automatically by the system.

It will not record such information as travel time, speed and stop locations. This feature is personalized. When your vehicle is delivered from the factory, this feature is turned off. When you turn the feature off, the system will clear the trace memory for that driver. It will also not display any trace information on the map.

To turn this feature on, touch the TRACE POINT ON button. To turn it off, touch the TRACE POINT OFF button.

With the TRACE POINT feature on, there will be grey dots on the map to show you where you have been driving.

Touch the RETURN button to go back to the NAV main menu.

Estimated Travel Time

This feature allows you to view the estimated time to travel from your current position to the destination. The estimated travel time is based on the calculated route information and the vehicle's average speed. To display the estimated travel time on the map and turn-by-turn screens touch the ON button in the Guidance Method Screen. See "Guidance Method" in the Index.

If you want to reset the average speed to the default values then touch the RESET button.

Touch the OFF button to stop the average speed calculation and the estimated travel time display.

Detour Distance

```
GUIDANCE METHOD            ┌─────────┐
Select a detour distance   │ RETURN  │
                           └─────────┘

          ON FREEWAY
    ┌───┐ ┌────┐ ┌────┐ ┌────┐ ┌────┐
    │ 5 │ │ 10 │ │ 15 │ │ 20 │ │ 50 │
    └───┘ └────┘ └────┘ └────┘ └────┘
         NOT ON FREEWAY
    ┌───┐ ┌────┐ ┌────┐ ┌────┐ ┌────┐
    │ 1 │ │ 2  │ │ 3  │ │ 4  │ │ 5  │
    └───┘ └────┘ └────┘ └────┘ └────┘

            UNIT: MILE
```
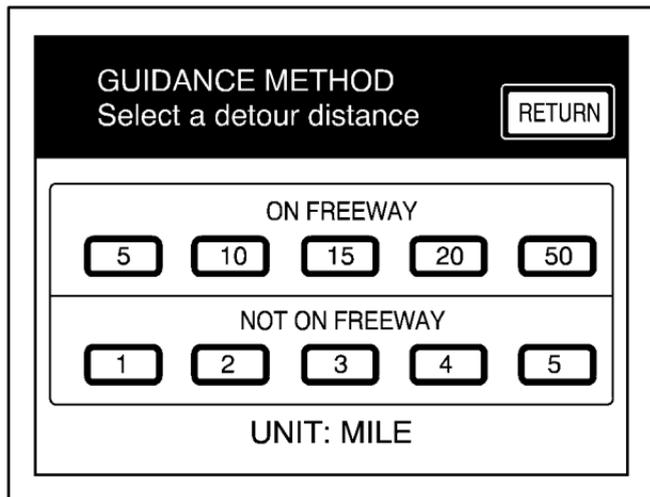
This feature allows you to choose a distance to detour.

When you have to be re-routed from your planned route, due to construction or to avoid a traffic jam, etc. Touch one of these buttons and choose the desired miles/meters to be detoured.

Once you select a detour distance for on and off the freeway, these settings will be saved. The next time you use DETOUR, the system will use these settings unless you change them.

Touch the RETURN button to go back to the NAV main menu.

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Set System Options

This menu gives you the following choices:

```
NAVIGATION MENU
Select an Option                    RETURN

        SERVICE SYSTEM
        USE DEFAULT SETTING
        SELECT LANGUAGE
     SCALE UNIT        METER    MILE
```

Service System

This menu gives you the following choices:

```
SERVICE SYSTEM
Select an Option                    RETURN

        CALIBRATE SYSTEM
        DATABASE INFORMATION
```

Calibrate System

If there are tire pressure differences or if a spare tire is installed, the navigation system will automatically re-calibrate the system but it may take longer.
You may choose to calibrate it yourself by using the steps listed here.

Once you touch the CALIBRATE SYSTEM buttons, you will have the following choices:

```
CALIBRATE SYSTEM                    ┌─────────┐
Select an Option                    │ RETURN  │
                                    └─────────┘

   Move the vehicle icon
   to the correct position on the map.
   ┌───────────────────────────────────┐
   │        ADJUST POSITION            │
   └───────────────────────────────────┘

   If you have recently changed a tire
   and the system is not operating properly,
   press button.
   ┌───────────────────────────────────┐
   │        CALIBRATE DISTANCE         │
   └───────────────────────────────────┘
```
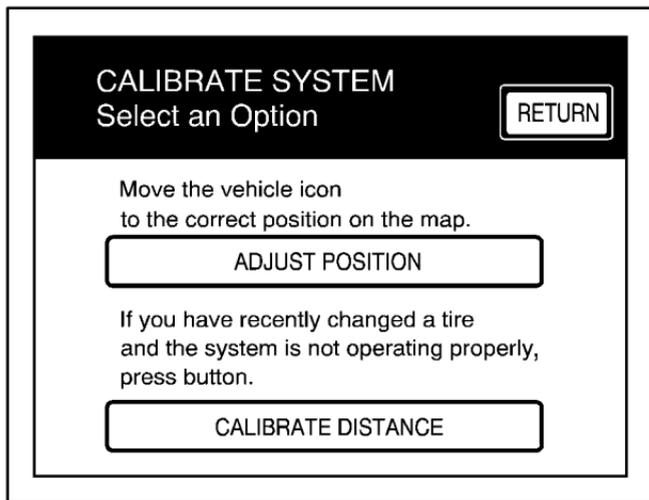
Adjust Position

You may need to correct the position of your vehicle on the map. To change to the correct position, do the following:

1. Your vehicle must be in PARK (P) to change to the correct position with the ignition in RUN.

2. Touch the ADJUST POSITION button. The system will display "ADJUST TO CORRECT POSITION." The vehicle position symbol will appear on the map.

3. Use the scroll arrows to place the vehicle in the correct position in the map.

4. Touch the SET button to set the correct vehicle position. The system will display POSITION IS ADJUSTED.

5. Next, on the bottom of the screen, CCW (counterclockwise), CW (clockwise) and SET will appear. Adjust the direction of your vehicle by touching the CCW or the CW buttons. When you touch either of these, you will see the vehicle direction changing.

6. When you have completed setting the vehicle to the correct direction, touch the SET button. The system will display DIRECTION IS ADJUSTED.

   The correct vehicle position and direction is now set.

If you begin to drive your vehicle during this procedure, the system will not be able to adjust the position or direction of your vehicle. The system will display ADJUSTMENT IS CANCELLED.

Touch the RETURN button to exit out of this menu.

Calibrating Distance

You may need to calibrate the system due to tire pressure differences, or if a spare tire is installed. Your vehicle may not have have the correct vehicle position or direction on the map.

If you change a tire(s) on your vehicle, you will need to calibrate the distance for the navigation system.

To calibrate the distance, do the following:

1. Your vehicle must be in PARK (P) with the ignition in RUN.
2. Touch the CALIBRATE DISTANCE button.
3. Next, touch the START button.

   The system will then calibrate the distance and it will end automatically.

Touch the RETURN button to exit from this menu.

Database Information
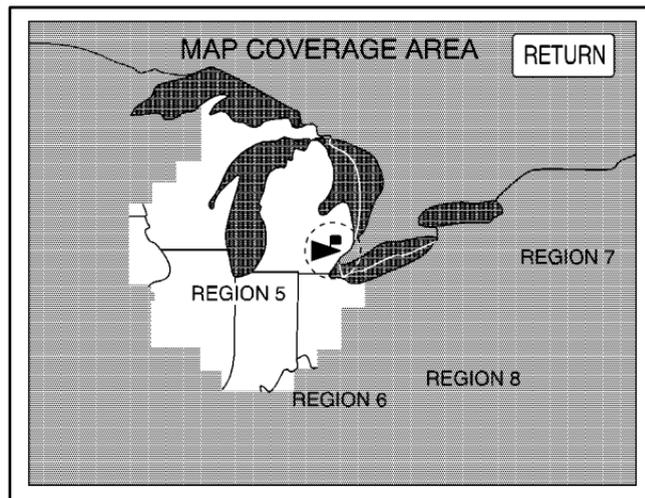
Database information shows your current vehicle position on the regional map that is installed in the CD ROM.

Touch the RETURN button to exit from this screen.

Default Setting

NAVIGATION MENU
Able to Set Default

RETURN

Reset system options
to default values?

YES   NO
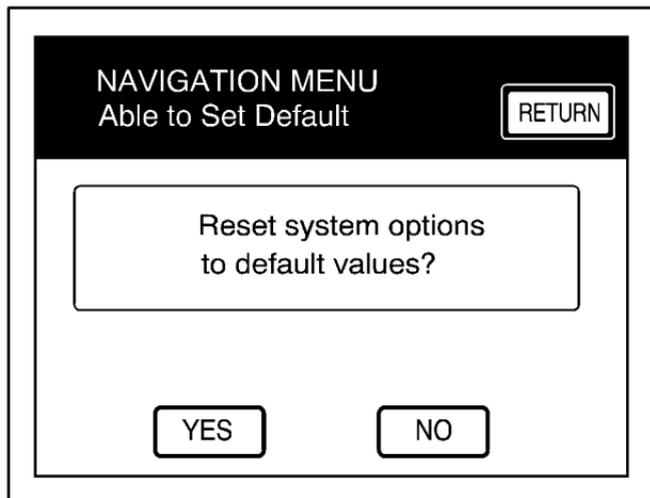
If you select the systems default setting, the system will automatically reset to the default values. The default settings are:

Language Mode . . . . English
Distance Unit . . . . Mile
Calculation Method . . . . Fastest
Detour Distance on Freeway . . . . 15 mi.
Detour Distance not on Freeway . . . . 3 mi.
Auto-Voice-Guidance . . . . ON
Guidance Method . . . . Turn-By-Turn
Auto Reroute . . . . ON
Trace Display . . . . OFF
Estimated Travel Time . . . . OFF
Clock/Date . . . . OFF
Current Position Mode . . . . Heading Up
and most detailed map

Select Language

Navigation System offers five available languages.

```
SELECT LANGUAGE                    RETURN

        ENGLISH        ESPAÑOL
        FRANÇAIS       DEUTSCH
        ITALIANO
                               TEST
```
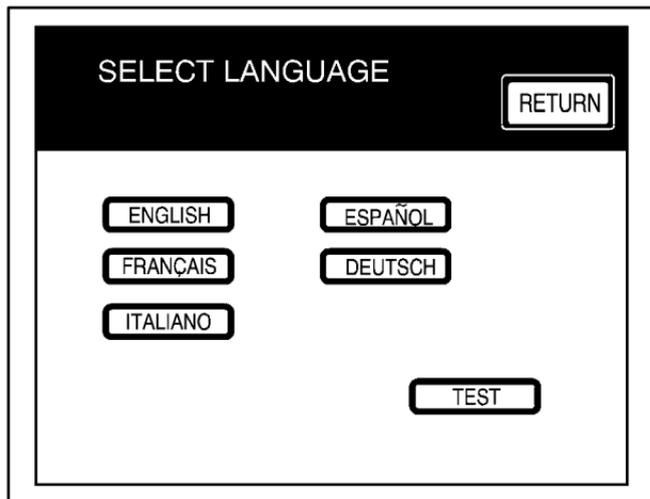
Your vehicle has been set for the English language.
If you wish to change the language, do the following:

1. Touch the SELECT LANGUAGE button.

2. Select the language you prefer.

3. Press the TEST button if you would like to hear a
   voice prompt test of the language.

4. Touch the RETURN button to take you back to the
   previous screen.

Whenever a voice prompt comes on, your radio, if on
will mute.

If the language is changed from English to a
different language, the menu screens will not match
word-for-word as they appear in this supplement. If you
accidently select a language and do not understand the
menus, turn your engine off and open and close your
door. Your navigation system will turn off. Touch the
LANGUAGE button when you first start the vehicle and
select the correct language.

English/Metric

You can select either the English or metric measurements
to appear for distances on the map. Touch the button to
change between English and metric.

Avoid Point/Area

```
AVOID POINT / AREA
Select an Option                    [RETURN]

        [ REGISTER AVOID POINT / AREA ]

        [   EDIT AVOID POINT / AREA   ]

        [  DELETE AVOID POINT / AREA  ]
```
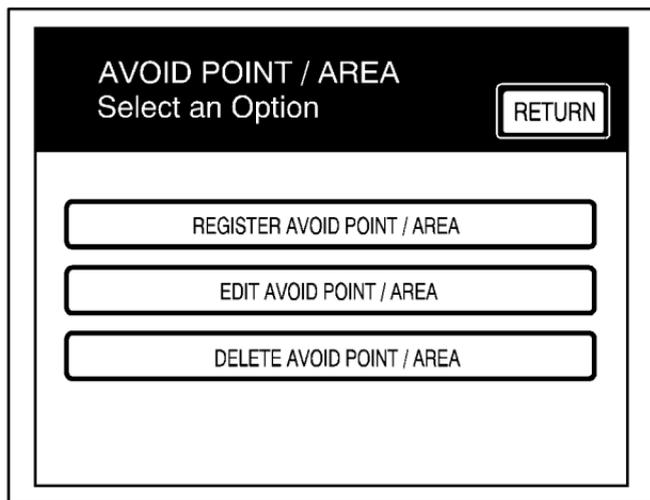
This menu will let you register, edit and delete an area to avoid while planning a route. The system can also save these areas in memory so the system can automatically avoid areas when planning a route.

Register Avoid Point/Area

To register an avoid point/area, do the following:

1. Touch this button.

2. Enter a location by following directions shown under changing a destination. See "Changing Destination" in the Index.

3. Touch the avoid button. You can reduce or enlarge the area around the point you want to avoid.

   If an avoid point cannot be avoided, the system will display "Avoid Point is set. Route may not avoid the avoid areas."

4. A pop-up screen will appear. The green square will get larger when you ENLARGE the area and smaller when you REDUCE the area.

Touch the RETURN button to go back to the NAV main menu.

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Edit Avoid Point/Area

With this feature, you are able to edit the registered avoid points that are stored in the system. To edit an avoid area, do the following:

1. Touch this button and the list of avoided points will appear.

2. Select the avoided point desired. A map of the avoided area will appear.

3. You can now use REDUCE or ENLARGE to edit the avoided point.

4. Touch the avoid button to set your new avoided area.

Touch the RETURN button to go back to the NAV main menu.

Delete Avoid Point/Area

This button will give you a list of all avoided points that are registered.

1. Select either a single point to be avoided or you can delete all registered avoided points by touching the DELETE ALL button.

2. After you have either selected one point or all, the system will ask "Delete point area? Yes or No."

3. Touch Yes and the area will no longer be avoided when traveling on a planned route.

Touch the RETURN button to go back to the NAV main menu.

Section 3 Navigation Audio System

Here you'll find information about how to operate the audio system offered with your Navigation System.

Audio System

The audio system has been designed to operate easily and 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 of 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 must be active for your audio system to work. See "Retained Accessory Power" in the Index of your vehicle owner's manual.

Navigation/Radio Display and Controls

The audio system is controlled by using the menus in the Navigation system screens. These audio menus are explained in this section.

Setting the Clock and Date

```
CLOCK

    11:23 AM              11/08/00

SET TIME            FORMAT

⌃HOUR   ⌃MIN.        12H    MM/DD/YY

⌄        ⌄           24H    DATE

GPS TIME   11:23 AM    DAYLIGHT
                       SAVING TIME
TIME ZONE  Eastern Standard Time
```

To set the clock and/or date, press the MENU hard key. Then touch SET under CLOCK to see the menu for setting the clock and date.

HOUR: HOUR changes the hours on the clock. Touch the up arrow to increase the hour or the down arrow to decrease the hour. If you touch and hold one of the arrows, the numbers will advance quickly.

MIN.: MIN. changes the minutes on the clock. Touch the up arrow to increase the minutes or the down arrow to decrease the minutes. If you touch and hold one of the arrows, the numbers will advance quickly.

12H: Touch 12H to set the clock in a.m. and p.m. time.

24H: Touch 24H to set the clock in military time.

GPS TIME: The current GPS (Global Positioning System) time will be displayed to the right of this touch sensitive button. Touch GPS TIME to set the navigation system's time to match the current GPS time. If the seconds for the present minute are greater than thirty when GPS TIME is selected the clock will automatically round up to the next minute.

DAYLIGHT SAVING TIME: Touch DAYLIGHT SAVING TIME to increase the time setting by one hour. Then touch GPS TIME to save the new setting. If the touch sensitive button is green, the daylight savings time function is on. If the button is blue, the daylight savings time function is off.

TIME ZONE: The selected time zone will appear to the right of this touch sensitive button. Touch TIME ZONE to change the time zone. The time of the selected zone is displayed to the right of the GPS TIME touch sensitive button. To set the system clock to the new settings touch GPS TIME.

DATE: Touch DATE to select the date format. There are six date formats to choose from. Each press of DATE will change the date format displayed. The date displayed is based on GPS information and cannot be adjusted manually.

If the system is not receiving GPS information, you can still set the time manually as described above but the GPS time, date and the time zone functions will not be available. NO GPS will display where the GPS time usually appears. See "Global Positioning System (GPS)" in the Index for more information.

Touch RETURN and it will take you back to the previous menu. Your time and date is now set.

Playing the Radio
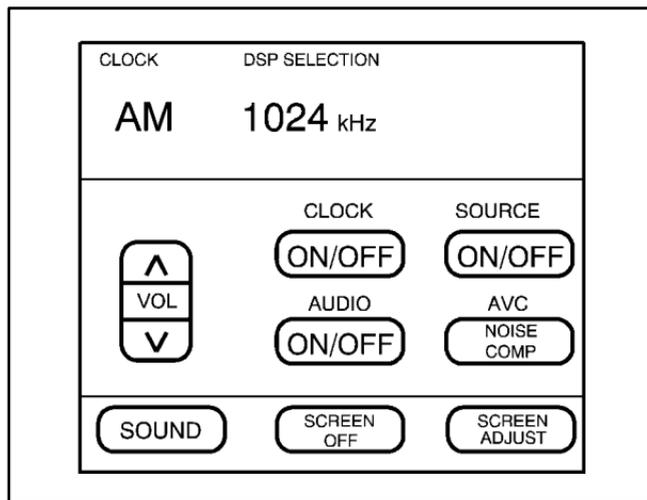
ADJUST Screen

To view the main audio screen, press the ADJUST hard key.

VOL: To change the volume of the audio system, touch the up arrow to increase the volume or the down arrow to decrease the volume. If the audio system is turned off, the UP/DOWN arrow will be dim (unavailable).

To adjust the volume when you are in another menu, hit the ADJUST hard key or use the steering wheel controls.

CLOCK ON/OFF: Touch the ON/OFF toggle button to turn the clock and date display on and off. If the button is green, the clock is on and if the button is blue, the clock is off. When the clock is on, the time or date will appear on the audio menu, audio adjust menu, preset menus, CD menu, turn-by-turn and map view screens.

AUDIO ON/OFF: Touch the ON/OFF toggle button to turn the audio system on and off. If the button is green, the audio system is on. If the button is blue, the audio system is off. When the audio system is on, you will hear the audio system even if you are using a menu screen. The volume will be muted whenever a voice prompt message from the navigation system is active, when emergency traffic announcements come on and if equipped with the hands free phone, when the hands free phone is active.

SOURCE ON/OFF: Touch the ON/OFF toggle button to replace or remove the source (AM, FM1, FM2, CD, OFF (audio), TEL, NAV and WX) from the map view or turn-by-turn screens. If the button is green, the source will appear on the screen. If the button is blue, the source will not appear on the screen.

The audio source (AM, FM1, FM2, CD and WX) will appear as a touch-sensitive button on the map view and turn-by-turn screens. (See example on page 2-38.) Press this button to switch directly from the map view or turn-by-turn screen to the selected source preset screen. The NEXT SOURCE button will also appear on the turn-by-turn screen. Press this button to switch the audio source directly from this screen.

AVC NOISE COMP.: Your system has a feature called Automatic Volume Control (AVC). With AVC, your audio system monitors the noise in the vehicle. Then, AVC automatically adjusts the volume level so that it always sounds the same to you. To use AVC, touch the NOISE COMP. toggle button. If the NOISE COMP. button is green, AVC is on and if the NOISE COMP. button is blue, AVC is off.

Finding a Station
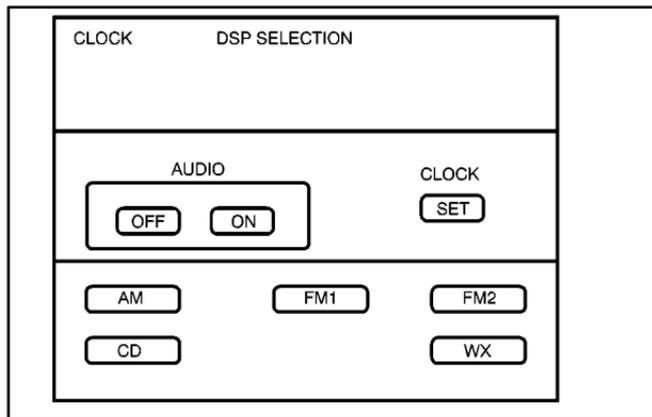
MENU Screen

Press the MENU hard key to see the MENU screen. This screen allows you to:

- Turn the audio on and off,
- change sources (AM, FM1, FM2, CD, and WX),
- set your preset stations,
- set the clock.

See "Setting the Clock" earlier in this section.

AUDIO OFF ON: Touch the ON button to turn the audio system on. Touch the OFF button to turn the audio system off.

AM, FM1, FM2, CD and WX (Weather Band): Touch one of these buttons to choose which source you prefer. When you touch the desired source, the selected source will turn on and your preset station or CD menu screen will appear.

TUNE/SEEK: This hard key has two positions in each direction. Press this hard key to the first position to manually tune to higher or lower stations. If this hard key is held at the first position for a few seconds, the audio system will continue tuning until this hard key is released. Press this hard key to the second position and release to seek to the next higher or lower radio station.

This hard key can be used while in any screen of the Navigation System.

Preset Station Menu

The six numbered buttons allow you to store your favorite stations. You can store up to 24 stations (6 AM, 6 FM1, 6 FM2 and 6 WX). Just:

1. Turn the audio system on.
2. Then, access your preset stations by pressing the MENU hard key.

3. Touch one of the buttons (AM, FM1, FM2 or WX) to choose the source that you want to preset.

4. Your preset station menu will appear.

CLOCK	DSP SELECTION
FM1	92.3 MHz
1 87.7 MHz	4 98.1 MHz
2 88.1 MHz	5 100.5 MHz
3 92.3 MHz	6 107.9 MHz
NEXT SOURCE	RDS	SCAN	SOUND
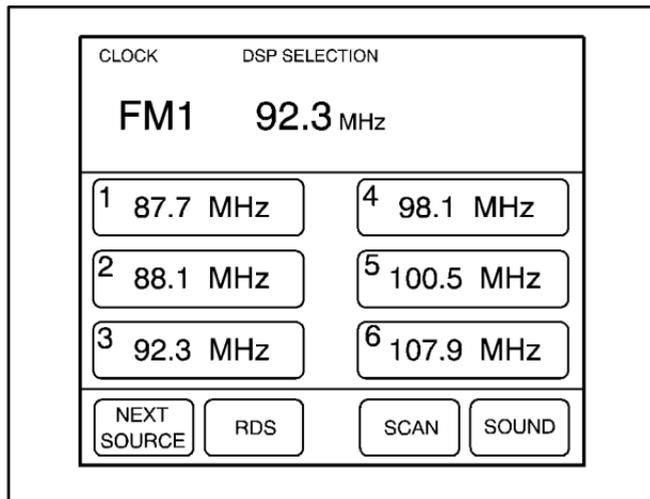
FM1 Source Shown, Other Sources Similar

5. Tune in the desired station by using the TUNE/SEEK hard key.

6. Touch and hold one of the six numbered preset buttons for more than two seconds or until you hear a beep.

7. Repeat the steps for each preset and source.

When battery power is removed and later applied, you will not have to reset your radio preset stations because the audio system remembers them.

NEXT SOURCE: Touch this button to change between sources (AM, FM1, FM2, CD, if CDs are loaded, or WX).

SCAN: Touch this button to scan through the stations on the audio system. The audio system will go to a station, stop for five seconds, then go to the next station. Touch the SCAN button again to stop scanning. If a station has weak reception, the audio system will not stop at the station.

If you touch and hold SCAN for two seconds, you can scan through your preset stations. It will only scan AM (alone), both FM1 and FM2 and weather source (alone). When the audio system stops on a preset, it will be green. You can also touch a preset or the SCAN button again to stop scanning.

Sound Menu (Tone, DSP, Fade and Balance)

Use the ADJUST hard key to change the TONE, DSP, FADE and BALANCE for all of the sources.

1. Press the ADJUST hard key.

2. Touch the SOUND button.

3. Touch the TONE button to adjust your bass, treble and midrange.

4. Touch the DSP button to adjust your DSP. See "Digital Signal Processing (DSP)" later in this section.

5. Touch the speaker symbol button to adjust your FADE and BALANCE. See "Adjusting the Speakers" for more information later in this section.

Use the MENU hard key to change the TONE, DSP, FADE and BALANCE for each of the preset radio stations.

1. Press the MENU hard key.

2. Touch the source (AM, FM1, FM2 or WX) buttons that you prefer to preset.

3. Touch the SOUND button.

4. Touch the TONE button to adjust your bass, treble and midrange.

5. Touch the DSP button to adjust your DSP. See "Digital Signal Processing (DSP)" later in this section.

6. Touch the speaker symbol button to adjust your FADE and BALANCE. See "Adjusting the Speakers" for more information later in this section.

After adjustments are made, touch the RETURN button. This will take you back to the preset station menu. Touch and hold one of the six numbered buttons for more than two seconds or until you hear a beep. (If you choose to change the settings for each preset, follow the steps listed previously.) Whenever you touch that numbered button for less than two seconds, the station and the previously stored information you have entered for each preset station will be set.

Setting the Tone
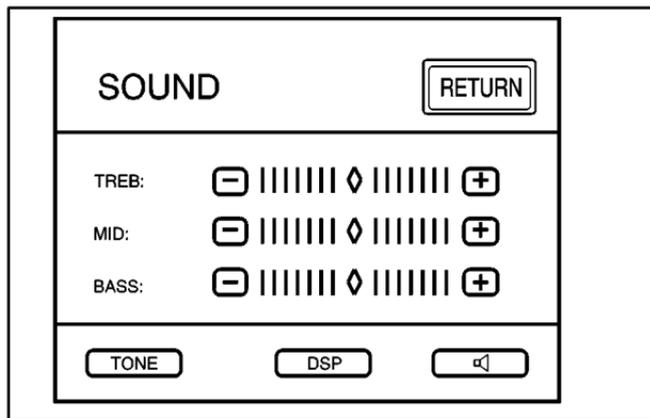
TONE: Touch this button for the TONE menu to appear. Here you can adjust your treble, midrange and bass. The audio system keeps separate tone settings for each source, preset (except weather band preset stations) and source.

In the TONE menu, you can adjust the following:

TREB: Touch the TREB plus (+) or minus (-) buttons to select the desired level.

MID: Touch the MID plus (+) or minus (-) buttons to select the desired level.

BASS: Touch the BASS plus (+) or minus (-) buttons to select the desired level.

To save tone settings for your preset stations, you must use the SOUND button. See "Sound Menu" for more information listed previously in this section.

Digital Signal Processing (DSP)
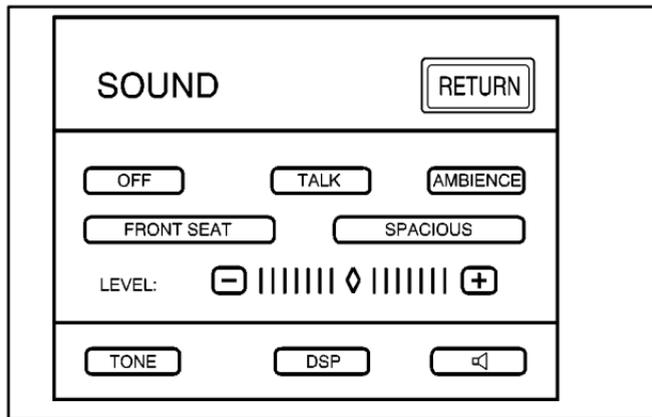
DSP: The DSP feature is used to provide a choice of four different listening experiences. DSP can be used while listening to the audio system or the CD player. The audio system can store separate DSP settings for each source (except weather band, which is always set to TALK), preset stations and source.

Touch this button to change the following options:

OFF: Touch this button to turn DSP off.

TALK: This button is used when listening to non-musical material such as news, talk shows, sports broadcasts and books on tape. TALK makes spoken words sound very clear.

AMBIENCE: This button is used to enhance the stereo effect.

FRONT SEAT: This button adjusts the audio to give the front seat occupants the best possible sound qualities. FRONT SEAT can be used at any time for any material. Rear seat passengers in the vehicle may not get the same effect.

SPACIOUS: This button is used to make the listening space seem larger.

LEVEL: Select a DSP setting. Then touch the minus (-) or plus (+) buttons to change the level of the DSP effect.

To save the DSP settings for your preset stations, you must use the SOUND button. See "Sound Menu" listed previously in this section for more information.

Adjusting the Speakers

```
┌─────────────────────────────────────────┐
│  ┌───────────────────────────────────┐  │
│  │                                   │  │
│  │   SOUND              [ RETURN ]   │  │
│  │                                   │  │
│  ├───────────────────────────────────┤  │
│  │                                   │  │
│  │  [ OFF ]    [ TALK ]  [AMBIENCE]  │  │
│  │  [ FRONT SEAT ]   [ SPACIOUS ]    │  │
│  │                                   │  │
│  │  LEVEL:  ⊖ |||||||| ◊ |||||||| ⊕  │  │
│  │                                   │  │
│  ├───────────────────────────────────┤  │
│  │  [ TONE ]    [ DSP ]    [  ◁ ]    │  │
│  └───────────────────────────────────┘  │
└─────────────────────────────────────────┘
```
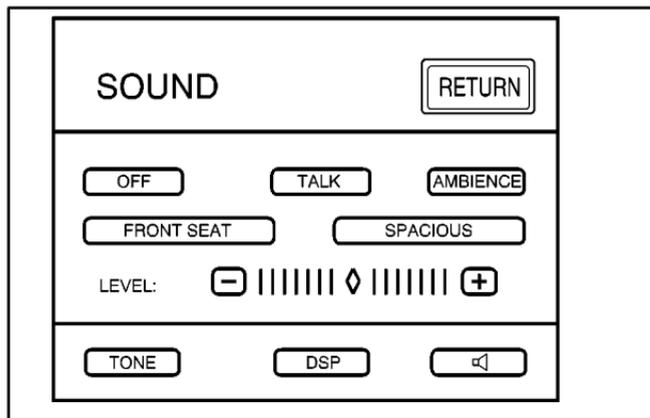
To access the FADE and BALANCE menu, touch the SOUND button. Then touch the speaker symbol button to adjust your FADE and BALANCE of the speakers.

FADE: Touch the "F" button for more speaker sound in the front of the vehicle and the "R" button for more speaker sound in the rear of the vehicle. The middle position balances the sound between the front and rear speakers.

BALANCE: Touch the "L" button for more speaker sound on the left of the vehicle and the "R" button for more speaker sound on the right of the vehicle. The middle position balances the sound between the left and right speakers.

Radio Data Systems (RDS)


```
CLOCK        DSP SELECTION              ST
             RDS                 TP    MSG

   FM1    101.3 MHz

  ┌──────────────┐     ┌──────────────┐
  │ 1            │     │ 4            │
  └──────────────┘     └──────────────┘
  ┌──────────────┐     ┌──────────────┐
  │ 2            │     │ 5            │
  └──────────────┘     └──────────────┘
  ┌──────────────┐     ┌──────────────┐
  │ 3            │     │ 6            │
  └──────────────┘     └──────────────┘
  ┌────┐┌────┐┌─────┐┌─────┐┌─────┐
  │RDS ││ TA ││ MSG ││ PTY ││ SEL │
  └────┘└────┘└─────┘└─────┘│ PTY │
                            └─────┘
```
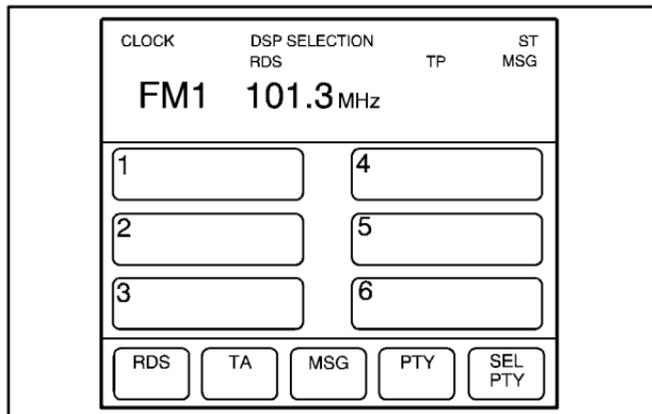
Your audio system is equipped with Radio Data Systems
(RDS). RDS mode gives you many useful new features.
When RDS is on, the audio system can:

- seek only to stations with the types of programs
  you want to listen to,
- seek to stations with traffic announcements,
- receive announcements concerning local and
  national emergencies,
- receive and display messages from radio stations and
- search for a stronger station when a station is too
  weak for listening.

RDS features are only available for use on FM stations
which broadcast RDS information.

RDS: Touch this button to use the alternate RDS
functions (TA, MSG, PTY and SEL PTY) located in the
preset menu for FM1 and FM2 only. When you touch
RDS, you will only have approximately five seconds to
choose TA, MSG, PTY or SEL PTY. If you do not
make a selection, the system will return you to the
previous menu.

Touch the RDS button to access the RDS functions.
If you are tuned to a station broadcasting RDS
information, the station's call letters and Program Type
(PTY) will replace the station's frequency on the display
if PTY is turned on. After five seconds, the program
type will be replaced on the display by the station's
program type name. The program type and program
type name may be the same or different.

If the audio system is tuned to a station that is not broadcasting RDS information, the station's frequency will remain on the display. While RDS is on, the audio system will search for a stronger station in the network, when a station gets too weak for listening. The system may display SEEKING PROGRAM if you try to recall an RDS preset station if a station is too weak for listening. See "Region" next for more information.

REGION: You can also use the RDS button to access the region function. When an RDS station becomes weak, this function searches for a stronger station within the same network. A network can span a great distance. One network can have stations spread across a country or continent. Each network breaks down into regions. With regions, local news items like weather and traffic are available to you. When the region function is on, the audio system only searches for stations in the same network and region. You can only use the region function when RDS is already on. Touch and hold the RDS button for two seconds. REGIONAL VARIANTS ON will appear on the display. While REGIONAL VARIANTS ON appears on the display, touch the RDS button again to turn the region function off. REGIONAL VARIANTS OFF will appear on the display. The region function can be turned on again by touching the RDS button.

TA: Touch this button to receive traffic announcements. The audio system will turn on the TA display. TA will appear on the display if the tuned station broadcasts traffic announcements. You may also receive traffic announcements from stations in the network related to the tuned station. If the current tuned station does not broadcast traffic announcements, the audio system will seek to a station which will. When the audio system finds a station which broadcasts traffic announcements, it will stop. If no station is found, the TA icon will turn off. When TUNE/SEEK or SCAN is pressed with the traffic announcement function on, the audio system will only stop at stations which broadcast traffic announcements.

While a traffic announcement plays, the audio system uses a special type of volume called TA volume. To increase TA volume, touch the VOL button on your steering wheel or use the VOL up or down arrow buttons during the announcement. See "VOL" earlier in this section.

When you go directly from an FM station with traffic information available you will still be able to listen to a tuned radio station or a related netw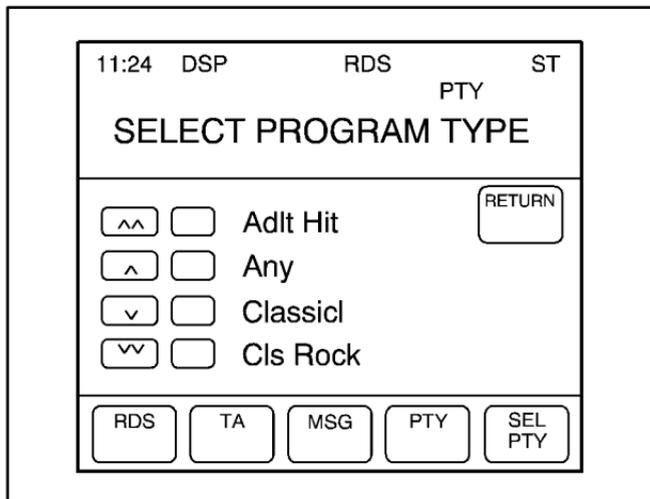ork station when a traffic announcement comes on, even if the volume is muted or a compact disc is playing. If the audio system tunes to a related network station for a traffic announcement, it will return to the original station when the announcement is finished. If the compact disc player was being used, the compact disc will stay in the player and resume play at the point where it stopped.

Touch the RDS button, followed by the TA button again to turn TA off.

MSG: When the RDS button is pressed, if the current station has a message, MSG will appear on the display. Touch the RDS button, followed by this button to see the message. If the whole message does not appear on the display, parts of the message will appear every three seconds until the message is completed. To see the parts of the message faster than every three seconds, touch this button again. A new group of words will appear on the display. Once the complete message has been displayed, MSG will disappear from the display until another new MSG is received.
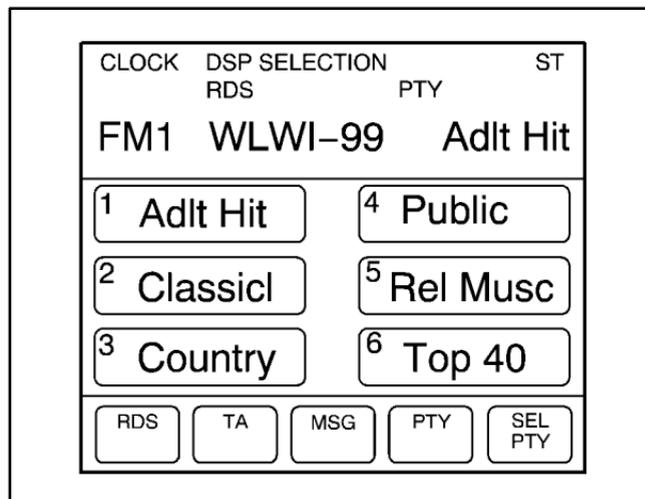
PTY: PTY allows you to seek only stations with types of programs you want to listen to. This button is used to turn on and off Program Type (PTY) features. With RDS on touch the RDS button, followed by the PTY button. The PTY display will turn on and will appear on the display. Touch the RDS button, followed by this button again to turn the PTY display off.

```
11:24   DSP          RDS          ST
                           PTY
   SELECT PROGRAM TYPE

                                RETURN
   [ᴧᴧ] [ ]   Adlt Hit
   [ᴧ] [ ]    Any
   [ᴠ] [ ]    Classicl
   [ᴠᴠ] [ ]   Cls Rock

   [RDS]  [TA]  [MSG]  [PTY]  [SEL PTY]
```

SEL PTY: With RDS and PTY on, touch the RDS button, then the SEL PTY button. The PTY menu screen will appear. Use the scroll up and down arrows to select a PTY. Touch your PTY selection and the system will return you to the screen with the preset stations shown. See Steps 1 through 5 under "PRESETS" to store PTYs. The selected PTY is then stored on the preset. You can now touch the PTY preset to recall your settings. See "Radio Data Systems (RDS) Program Type (PTY) Selections" in the Index.

When the PTY display is on, press TUNE/SEEK and SCAN to find radio stations of the PTY you want to listen to. The last PTY selected will be used for seek and scan modes. If a station with the selected PTY is not found, NONE FOUND will appear on the display. If both PTY and TA are on, the audio system will search for stations with traffic announcements and the selected PTY.

PRESETS: The six numbered preset stations let you return to your favorite Program Types (PTYs). These buttons have factory PTY preset stations. See "Radio Data Systems (RDS) Program Type (PTY) Selections" in the Index. You can set up to 12 PTYs (6 FM1 and 6 FM2). To save a PTY preset:

1. Touch the FM1 or FM2 button.

2. Touch the RDS button to turn RDS on.

3. Touch the PTY button.

4. Touch the SEL PTY button and select the desired PTY as described previously.

5. Touch and hold one of the six numbered buttons for more than two seconds or until you hear a beep. Whenever you touch that numbered button for less than two seconds, the PTY you set will return.

6. Repeat the steps for each preset button.

3-15

Once you have stored a PTY for each of your preset stations, you can recall a PTY preset by touching the preset station for less than two seconds Then use TUNE/SEEK or SCAN to locate a station for that PTY selection.

When battery power is removed and later applied, you will not have to reset your RDS preset stations because the audio system remembers them.

ALERT: This type of announcement warns of national or local emergencies. You will not be able to turn off alert announcements. Alert announcements will come on even if RDS mode is turned off. ALERT appears on the display when an alert announcement plays. The audio system uses TA volume during these announcements. To increase volume, touch the VOL button on your steering wheel or use the VOL up and down arrow buttons during the announcement. See "VOL" earlier in this section. When an alert announcement comes on the tuned radio station or a related network station, you will hear it, even if the volume is muted or a compact disc is playing. If the audio system tunes to a related network station for an alert announcement, it will return to the original station when the announcement is finished. If the compact disc player is playing, the player will stop for the announcement and resume when the announcement is finished.

RDS Program Type (PTY) Selections

PTY List	Description
Adlt Hit	Adult Hits
Any	Any
Classicl	Classical
Cls Rock	Classical Rock
College	College
Country	Country
Info	Information
Jazz	Jazz
Language	Language
News	News
Nostalga	Nostalgia
Oldies	Oldies
Persnlty	Personality
Public	Public
R & B	Rhythm and Blues
Rel Musc	Religious Music
Rel Talk	Religious Talk
Rock M	Rock Music
Soft	Soft

PTY List	Description
Soft Rck	Soft Rock
Soft R & B	Soft R & B
Sports	Sports
Talk	Talk
Top 40	Top 40
Weather	Weather

Factory PTY Presets

Your audio system comes with these factory PTY preset stations. To change the factory settings, see Steps 1 through 5 under "PRESETS" listed previously.

Preset	FM1	FM2
Preset 1	Adult Hits	Jazz
Preset 2	Classical	Oldies
Preset 3	News	Religious Music
Preset 4	Public	Soft Rock
Preset 5	Rock M	R & B
Preset 6	Country	Top 40

6-Disc CD Changer

With the compact disc changer, you can play up to six discs continuously. Normal size discs may be played using the trays supplied in the magazine. The smaller discs (8 cm) can be played only with specially designed trays.

You must first load the magazine with discs before you can play a compact disc. Each of the six trays holds one disc. Load the trays from bottom to top, placing a disc in the tray label side up. If you load a disc label side down, the disc will not play and an error will occur. Repeat this procedure for loading up to six discs in the magazine.

3-17

Once you have loaded the discs into the magazine, slide the CD changer door open. Push the magazine into the changer in the direction of the arrow marked on top of the magazine.

Close the door by sliding it all the way to the right. When the door is closed, the changer will begin checking for discs in the magazine. This will continue for up to one and a half minutes, depending on the number of discs loaded. You may hear noise, but this is normal.

To eject the magazine from the player, slide the CD changer door all the way open. Press the EJECT button, located inside of the changer door, and the magazine will eject. Remember to keep the door closed whenever possible to keep dirt and dust from getting inside the changer.

To eject CDs from the magazine, you must push the RELEASE switch on the bottom of the magazine to release the CDs.

When a CD magazine with discs is loaded in the changer, once the changer has checked for discs, the CD button will be available when the button turns blue. If the CD changer is checking the magazine for CDs, the CD symbol will dim on the display until the changer is ready to play. When a CD begins playing, a disc and track number will be displayed. The disc numbers are listed on the front of the magazine.

To be able to use your six disc CD player, you must:

1. Press the MENU hard key.

2. Touch the CD button.

You may also use CD by using the NEXT SOURCE button on the turn-by-turn screen or when in any of the audio preset screens as long as the CD button is active. See "NEXT SOURCE" earlier in this section.
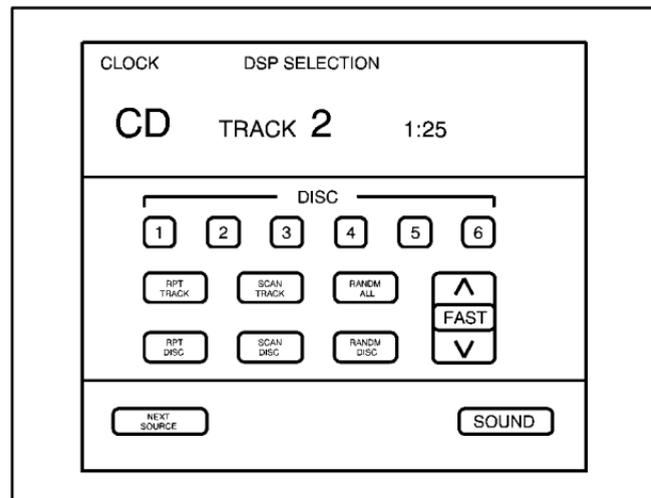
Once at this screen you can select one of the numbered buttons to go from one compact disc to another that is loaded in the changer, repeat the track, repeat the disc, scan the disc, scan the track, use the RANDOM ALL or RANDOM DISC and use the FAST up and down arrows to rewind or fast forward through the disc selected.

Touch the buttons 1 through 6 to go from one compact disc to another that is loaded in the changer. These buttons represent the order of the discs loaded in the changer. If there are only two CDs loaded, buttons 1 and 2 will only be available to choose from.

RPT TRACK: Touch this button to repeat the track you have previously listened to.

RPT DISC: Touch this button to repeat the disc you have previously listened to.

SCAN TRACK: Touch this button to hear the first few seconds of the first track on each disc. Touch this button again to stop scanning. The CD will mute while scanning.

SCAN DISC: Touch this button to hear the first few seconds of each track on the disc selected. Touch this button again to stop scanning. The CD will mute while scanning.

RANDOM ALL: Touch this button to hear the tracks on all of the CD's in the CD changer in random, rather than sequential, order. Touch the TUNE/SEEK hard key while RDM is on the display to randomly seek through discs. Touch RANDOM ALL again to turn off random play.

RANDOM DISC: Touch this button to hear the tracks in random, rather than sequential, order on the disc selected. Touch and hold the TUNE/SEEK hard key to randomly seek through discs. Touch RANDOM DISC again to turn off random play.

FAST: Touch the up arrow to fast forward quickly through a track selection. Touch the down arrow to reverse quickly through a track selection.

TUNE/SEEK: Touch the upward arrow on the TUNE/SEEK hard key to seek to the next selection on the compact disc. If playing last track of disc, touching the upward arrow will seek to the first track of disc. Touch the downward arrow to seek to the previous selection on the compact disc. If playing the first track of disc, touching the downward arrow will seek to the last track of disc. The sound will mute while seeking.

Compact Disc Changer Errors

CD ERROR could be displayed for the following:

- The road is too rough. The disc should play when the road is smoother.

- The disc is dirty, scratched, wet or loaded label side up.

- The air is very humid. If so, wait about an hour and try again.

If any error occurs repeatedly or if an error cannot be corrected, please contact your dealer . If your audio system displays an error number, write it down and provide this information to your dealer when reporting the problem.

Radio Personalization with Home and Away Feature

With this feature, your vehicle will recall the latest audio system settings as adjusted the last time your vehicle was operated. This feature allows two different drivers to store and recall their own audio system settings. The settings recalled by the audio system are determined by which RKE transmitter ("1" or "2") was used to enter the vehicle. The number on the back of the RKE transmitter corresponds to driver 1 or to driver 2. The audio system settings will automatically adjust to where they were last set by the identified driver. The settings can also be recalled by briefly pressing the MEMORY seat switches 1 or 2 located on the driver's door.

Your audio system can store home and away preset stations. Home and away preset stations allow you to use one set of preset radio settings in the area where you live, and another set when you go out of town. That way, you will not need to reprogram your preset stations every time you travel.

To select home and away preset stations, do the following:

1. Touch the MENU hard key and turn the audio system off.

2. Use TUNE/SEEK to select home or away. To select away preset stations, press and hold the TUNE/SEEK up arrow for five seconds until you hear a beep.

   The next time the audio system comes on, the away preset stations will be active.

3. To select home preset stations, press and hold the TUNE/SEEK down arrow for five seconds until you hear a beep.

   The next time the audio system comes on, the home preset stations will be active.

When battery power is removed and later applied, you will not have to reset your home audio system preset stations because the audio system remembers them. However, you will have to reset your away radio preset stations.

Audio Steering Wheel Controls

Your vehicle is equipped with audio steering wheel controls. You can use the VOL for volume and SEL for tuning to preset stations while in any screen on your Navigation System.

VOL: Use the up arrow to increase the volume of the audio system and the down arrow to decrease the volume of the audio system and navigation system voice prompts. The volume of the navigation system voice prompts can only be adjusted while a voice prompt is being stated.

SEL: Use the up or down arrow to move through your preset stations.

When you are using PTY, by touching this button, the audio system will only seek PTY preset stations that have been previously chosen. The display will show with PRESET SEEK. For example, if you do not have JAZZ stored as a PTY preset station, the audio system will not stop on a JAZZ station. See "PTY" described earlier in this section for more information.

Understanding Radio Reception

AM

The range for most AM stations is greater than for FM, especially at night. The longer range, however, can cause stations to interfere with each other. AM can pick up noise from things like storms and power lines. Try reducing the treble to reduce this noise if you ever get it.

FM Stereo

FM stereo will give you the best sound, but FM signals will reach only about 10 to 40 miles (16 to 65 km). Tall buildings or hills can interfere with FM signals, causing the sound to come and go.

Cellular Phone Usage

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

Weather Band

Weather band broadcasts a continuous weather forecast. Weather band is restricted to speech and the audio quality is not as good as with the AM or FM bands. Depending on location, the audio system should receive seven channels.

With weather band, you cannot select a different DSP mode. It is automatically set to TALK and it cannot be changed.

Tips About Your Audio System

Hearing damage from loud noise is almost undetectable until it is too late. Your hearing can adapt to higher volumes of sound. Sound that seems normal can be loud and harmful to your hearing. Take precautions by adjusting the volume control on your radio to a safe sound level before your hearing adapts to it.

To help avoid hearing loss or damage:

- Adjust the volume control to the lowest setting.
- Increase volume slowly until you hear comfortably and clearly.

NOTICE:

Before you add any sound equipment to your vehicle -- like a tape player, CB radio, mobile telephone or two-way radio -- be sure you can add what you want. If you can, it's very important to do it properly. Added sound equipment may interfere with the operation of your vehicle's engine, radio or other systems, and even damage them. Your vehicle's systems may also interfere with the operation of sound equipment that has been added improperly.

So, before adding sound equipment, check with your dealer and be sure to check Federal rules covering mobile radio and telephone units.

Care of Your Compact Discs

Handle discs carefully. Store them in their original cases or other protective cases and away from direct sunlight and dust. If the surface of a disc is soiled, dampen a clean, soft cloth in a mild, neutral detergent solution and clean it, wiping from the center to the edge.

Be sure never to touch the side without writing when handling discs. Pick up discs by grasping the outer edges or the edge of the hole and the outer edge.

Care of Your Compact Disc Player

The use of CD lens cleaner discs is not advised, due to the risk of contaminating the lens of the CD optics with lubricants internal to the CD mechanism.

Diversity Antenna System

Your AM-FM antennas are located in the front windshield and rear window. Be sure that the inside surfaces of the front windshield and rear window are not scratched and that the lines on the glass are not damaged. If the inside surfaces are damaged, they could interfere with radio reception.

Do not apply aftermarket glass tinting. The metallic film in some tinting materials will interfere with or distort the incoming radio reception.

NOTICE:

Do not try to clear frost or other material from the inside of the rear window with a razor blade or anything else that is sharp. This may damage the rear defogger grid and affect your radio's ability to pick up stations clearly. The repairs wouldn't be covered by your warranty.

If, when you turn on your rear window defogger, you hear static on your radio station, it could mean that a defogger grid line has been damaged. If this is true, the grid line must be repaired.

If you choose to add an aftermarket cellular telephone to your vehicle, and the antenna needs to be attached to the glass, be sure that you do not damage the grid lines for the AM-FM antennas or place the cellular telephone antenna over the grid lines.

Section 4   If a Problem Occurs

Sometimes you may experience a problem with the Navigation System. In this section, you can learn about some things that may help you when a problem occurs.

Vehicle Positioning

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

- If the road system has changed.
- When driving on slippery road surfaces such as in sand, gravel and/or snow.
- When driving on winding roads.
- When driving on a long straight road.
- When approaching a tall building or a large vehicle.
- When surface streets run parallel to a freeway.
- If the vehicle has just been transferred by a vehicle carrier or a ferry.
- If the current position calibration is set incorrectly.
- During high-speed driving.
- After repeating a change of directions by going forward and backward. Or, turning on a turn table in a parking lot.

- When entering and/or exiting a parking lot, garage or a lot with a roof.
- If a roof carrier is installed on your vehicle.
- When driving with tire chains.
- If tires are replaced.
- The tire pressure for your tires are incorrect.
- The tires are worn.
- First time the CD is inserted.
- After battery is disconnected for several days.
- When driving in heavy traffic where driving is at low speeds and the vehicle is stopped and started repeatedly.

To relocate the vehicle position on the map see "Adjust Position" in the Index.

If you experience problems with your system, you may need to calibrate the system. This may be due to tire pressure differences, or if a spare tire is installed. To calibrate the system, see "Set System Options" in the Index.

Problems with Route Guidance

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

- When not turning onto the road indicated.

- With automatic rerouting, route guidance may not be available for the next right or left turn.

- In automatic rerouting, the route may not be changed.

- When turning at an intersection, there is no route guidance.

- In some cases, plural names of places are announced.

- It may take a long time to operate automatic rerouting during high-speed driving.

- If you are heading for a destination without passing through a set waypoint, automatic rerouting may display a route returning to the set waypoint.

- The route prohibits the entry of a vehicle due to a regulation by time or season or any other regulation which may be given.

- Some routes may not be searched.

- If there are new roads, if roads have recently changed or if certain roads are not listed on the CD, the route to the destination may not be shown. See "Ordering Regional Map Compact Discs" in this section.

To relocate the vehicle position on the map see "Adjust Position" in the Index.

If the System Needs Service

If your system needs service and you have followed the steps listed here and under Calibrate System and still are experiencing problems, please see your dealer for assistance. For more information on Calibrate System, see "Set System Options" in the Index.

Ordering Regional Map Compact Discs

The map CDs in your vehicle are the most up-to-date information available when your vehicle was purchased. The regional map CDs are updated once a year, provided that the map information has changed. To order new CDs, please contact your dealer.

Database Coverage Explanations

Coverage areas within the United States 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 there is a limited amount of detail available for an area you enter, the system will change the map to the detail that is available. (See "Auto Scale" in the Index for more information.) If this happens, this does not mean there is a problem with the system. As regional map CDs are updated, more detail may become available for areas which previously had limited detail. See "Ordering Regional Map Compact Discs" previously.

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