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NVD-A101

SMART MAP PRO

Prog. Ver. 1.00

OWNER'S MANUAL

Please read before using this DVD-ROM.

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Important information.

Please read carefully before using this product.

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PRECAUTIONS

Important information.

Please read carefully before using this product.

This product is intended to safely provide turn by turn instructions to get you to a desired destination. Please make certain that all persons using this navigation system carefully read these precautions and the following instructions fully.

- 1) This product is not a substitute for your personal judgment. Any route suggestions made by this navigation system may never supersede any local traffic regulations or your personal judgment and/or knowledge of safe driving practices. *Do not follow route suggestions if the navigation system instructs you to perform an unsafe or illegal maneuver, places you in an unsafe situation, or routes you into an area which you consider unsafe.*
- 2) Glance at the screen only when necessary and safe to do so. If prolonged viewing of the screen is necessary, pull over in a safe and legal manner and location.
- 3) Do not input destinations, change settings, or access any functions requiring a prolonged view of the monitor and/or remote control while you are driving. Pull over in a safe and legal manner and location before attempting to access the system.
- 4) Do not use the navigation system to route you to emergency services. Not all locations of emergency services such as police and fire stations, hospitals and clinics are contained in the database. Please use your own judgment and ask for directions in these situations.
- 5) The map database used in the DVD-ROM is the most recent map data available at the time of production. Because of changes in streets and neighbourhoods, there may be situations where the navigation system is not able to route you to your desired destination. In these cases, use your own judgment.
- 6) The map database is designed to provide you with route suggestions and does not take into account the relative safety of a suggested route or of factors which may affect the time required to reach your destination. The system does not reflect road closures or construction, road characteristics (i.e. type of road surface, slope or grade, weight or height restrictions, etc.), traffic congestion, weather conditions, or any other factors which may affect the safety or timing of your driving experience. Use your personal own judgment if the navigation system is unable to provide you with an alternate route.
- 7) There may be situations where the navigation system displays the vehicle's location erroneously. Use your own driving judgment in this situation, taking into account current driving conditions. Please be aware that in this situation the navigation system should correct the vehicle's position automatically. However, there may be times where you may have to correct the position yourself. If this is the case, pull over in a safe and legal manner and location before attempting operation.
- 8) Make certain that the volume level of the monitor or CVA-1000/CVA-1005 type unit is set to a level which still allows you to hear outside traffic and emergency vehicles.

If there is anything in the manual about the operation of the navigation system which you are uncertain about, please contact your local Alpine authorized navigation dealer or Alpine at 1-888-NAV-HELP (1-888-628-4357) before using the navigation system.

Points to Observe for Safe Usage

- Read this manual carefully before using this DVD-ROM. It contains instructions on how to use this product in a safe and effective manner. Alpine cannot be responsible for problems resulting from failure to observe the instructions in this manual.
- This manual uses various pictorial displays to show you how to use this product safely and to alert you to potential dangers resulting from improper connections and operation. Following are explanations of these pictorial displays. It is important to fully understand the meanings of these pictorial displays in order to use this manual and the system properly.

MEANING OF DISPLAYS:



Warning

This symbol will precede important instructions. Failure to heed them can result in serious injury or death.



Caution

This symbol precedes important instructions. Failure to heed them can result in injury or property damages.



This indicates supplementary explanation or helpful suggestions for a specific feature in this system.

WARNING

- Operation of the system while driving is dangerous. Users should stop vehicle before operating the software.
- Road conditions and regulations take precedence over information contained on the map display: observe actual traffic restrictions and circumstances while driving.
- This software is designed for use exclusively in the NVE-N851A series. It cannot and may not be used in conjunction with other hardware.



Warning

DO NOT OPERATE THE PRODUCT WHILE DRIVING

Operating the product may distract the driver from looking ahead of the vehicle and cause an accident. Always stop the vehicle in a safe location before operating the product.

MINIMIZE MONITOR VIEWING WHILE DRIVING

Viewing the monitor may distract the driver from looking ahead of the vehicle and cause an accident.

DO NOT FOLLOW ROUTE SUGGESTIONS IF THE NAVIGATION SYSTEM INSTRUCTS YOU TO PERFORM AN UNSAFE OR ILLEGAL MANEUVER, OR PLACES YOU IN UNSAFE SITUATION OR AREA

This product is not a substitute for your personal judgement. Any route suggestions by this system should never supersede any local traffic regulations or your personal judgement or knowledge of safe driving practice.

KEEP SMALL OBJECTS SUCH AS BATTERIES OUT OF THE REACH OF CHILDREN

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.



Caution

USE THIS PRODUCT FOR MOBILE 12V APPLICATIONS

Other uses may result in electric shock or injury.

HALT USE IMMEDIATELY IF A PROBLEM APPEARS

Failure to do so may cause injury or damages to the product. Return it to your authorized Alpine dealer or the nearest Alpine Service Station for repairing.

DO NOT PLACE FINGERS OR FOREIGN OBJECTS IN CD/DVD-ROM INSERTION SLOTS OR GAPS

Doing so may result in injury or damage to the product.

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PREFACE

System Features

Automatic Route Calculation

The navigation system displays and tracks your vehicle's position and movement via a moving map display. When you input a destination, the navigation system quickly calculates a route and guides you with pictorial displays and voice prompts. When determining the route, the system can be programmed to minimize the use of toll roads and freeways.

This system combines GPS signals received with map information stored on DVD-ROM to display the position and direction of the vehicle. This navigation system also includes an electronic gyro-sensor and a speed sensor that enable it to display the present vehicle position even in locations where GPS signals may be blocked.

Multiple Mode Destination Selection

Desired destinations can be selected among these 9 categories:

- an address
- an intersection
- a point of interest (POI)
- a recent destination
- your personal address book
- a special feature called Today's Plan
- a location selected directly from the map display
- a phone number
- an origin of the current route

Street Name Input

Allows you to input your destination's street name (via Address or Intersection search) if you don't know your destination's city name.

Next Turn Guide

When an upcoming turn is approaching, the system will give maneuver instructions via arrow guides and simple voice prompts.

Real Time Voice Guidance

Using voice prompts, the system will notify you of upcoming turns and highways to enter. The VOICE button on the remote control allows you to access this voice guidance feature at any time with a single press.

Map Zoom

You can change the map display in nine magnification scales to show more detail or more general views (1/32, 1/16, 1/8, 1/4, 1/2, 2, 8, 32, 128 and 256 (only when the entire route map is displayed) miles).

System Enhancements

Overall Improved System Response Time

Faster screen transitions and route calculations.

Faster Input Using Smart Key Filtering

By displaying only the characters necessary to complete your destination input, jumping over unnecessary letters is kept to a minimum.

Input Destination by Phone Number

By entering a POI by phone number, you have the option of calling first, routing or calling and routing.

Expanded Points of Interest Database

The POI database contains hundreds of thousands of business locations. The database is constantly expanding and changing. Regular updates are made to keep up with this constant change.

GPS Clock

This time will automatically adjust according to GPS time.

This time can also be displayed directly on the map along with your estimated time of arrival (ETA) or estimated drive time remaining (TO GO).

Phone Dialing Function

Using an optional cellular phone interface, you can call any number listed for your destination (if a phone number is listed) through this navigation system. If you are already enroute to a destination, the number of the programmed destination may be called without cancelling the route.

Mobile Mayday Interface

A special Message Board function will allow an optional, Alpine Mobile Mayday system to display text messages directly on the navigation display. The system can receive 8 messages and display up to 26 characters long by 6 lines per message.

Navigation Terminology

Present Vehicle Position Indicator

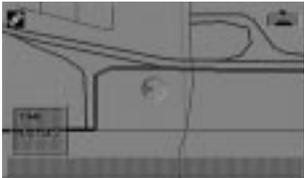
The present vehicle position is indicated by an arrowhead within a circle.

Present vehicle position

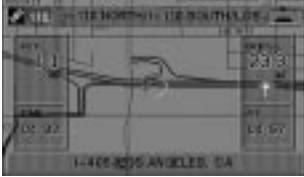


Map Matching

Since GPS has an error window of about 100 - 650 feet (30 m - 200 m), the position of the vehicle may be calculated in such a way that it is displayed incorrectly off the road. Map matching automatically corrects this error so that the vehicle is displayed on the road.



Uncorrected



Corrected

Destination

The destination point is represented by a checkered flag.

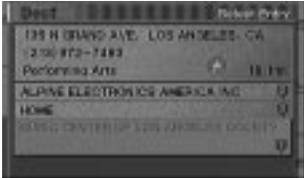
Destination icon



Route

Address Book

Up to 99 personal locations and phone numbers can be stored in the system's memory.



Popular Points of Interest

Seven different POI icons can be programmed to appear on the map. These icons indicate the locations and names of the nearest ATMs, banks, gas station, restaurants, hotels, supermarkets and parking garages. All seven icons can be displayed on the screen at one time.



Remote Control Reference Guide

Joystick/ENTER button

Selects highlighted items within menus and moves map displays and vehicle position icon. Press the ENTER button to select any highlighted function, screen icon or street segment.

Zoom/Scroll buttons

Changes map magnification ratio upward or downward in 9 steps (1/32, 1/16, 1/8, 1/4, 1/2, 2, 8, 32 and 128 miles). Scroll through street, city or category listings a page at a time.

MENU button

Displays the main menu bar.

VOICE button

Initiates vocal instruction for next route maneuver or repeats last instruction.

LIST button

Displays list of the streets currently set for the route. To return to the guidance mode, press the MP/RG button.

DETOUR button

Automatically recalculates route if a road block or traffic congestion is encountered.

DISP ON/OFF button

Turns the pictorial display on or off.

DEL button

Deletes the character previously input.

Remote Control transmitter

Transmits the remote control signals. Aim toward the display monitor for operation.

Status indicator

Illuminates when remote is transmitting.

Rotary encoder

This has multiple functions. In map displays, zoom in or out; in list displays, scrolls list pages; in coordinate inputting, moves cursor; in alphabet inputting, moves alphabetical characters.

CANC button

Cancels current display screen and switches back to previous screen with menus.

MP/RG button

Toggles between Detailed Map Display and Basic Guide Display during guidance. Switches directly to Map when not in guidance.

N/H button

Toggles between North Up and Heading Up orientation.

PLAN button

Can delete the route set by Today's Plan function.

DEL DEST. button

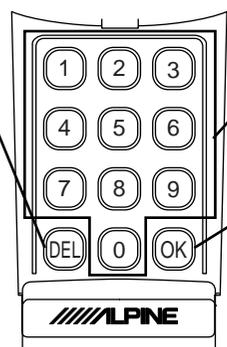
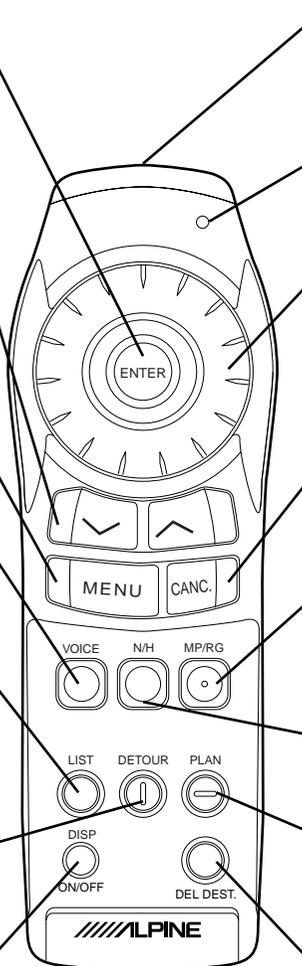
Deletes current destination.

Numeric Keypad

Use these buttons to enter Phone numbers, address numbers or street names containing numbers (i.e., 42nd St.).

OK button

Executes numeral inputtings and starts searching.



- If an operation is not accepted, the navigation system beeps.
- Adjust the volume with the control on display monitor etc.



Hold down CANC button for 3 seconds to toggle between Heading Up and North Up orientation. (See page 60.)

BEFORE USING THE SYSTEM

Displaying Navigation Screen

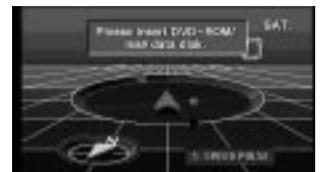
The DVD-ROM map data disc must be inserted into the Navigation system before starting to use the Navigation system. This section describes how to display the initial Navigation screens.

- 1** Start the vehicle's engine by turning the ignition key to the ON position. The opening screen appears on the monitor display.

If a CVA-1000/CVA-1005 type system control monitor is used, you may not see this screen.



- 2** The display shows "Please insert DVD-ROM/ map data disk." Insert the DVD-ROM disc into the NVE-N851A Series Navigation System. (For instructions on inserting and removing the DVD-ROM disc, refer to the NVE-N851A Series Hardware Manual.)



- 3** A disclaimer screen appears. Please read this important information. Press the **ENTER** button on the remote control if you accept this statement.



- 4** Once the **ENTER** button on the remote control is pressed, the map screen will appear on the display. The vehicle's present location is indicated. If the vehicle's present location is incorrect, drive the vehicle several miles in an area with an open view to sky. This will correctly synchronize the navigation system.



The calculation process of the present vehicle's position using GPS signals takes approximately 10 minutes after turning on the Navigation system. During this period, the present vehicle's position indicator does not move even if the vehicle moves.

OPERATION

Basic Operation

The following example briefly describes how to use the Alpine Advanced Route Guidance Navigation System.

1 The opening screen will appear once the navigation system is turned on.

(If a CVA-1000/CVA-1005 type system control monitor is used, you may not see this screen.)



2 A disclaimer screen appears. Please read this important information. Press the **ENTER** button on the remote control if you accept this statement.



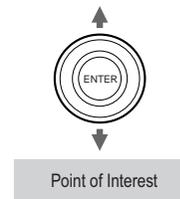
3 Once the **ENTER** button on the remote control is pressed, the map screen will appear on the display. The vehicle's current location is indicated. If the vehicle's current location is incorrect, drive the car several miles in an area with an open view to the sky. This will correctly synchronize the navigation system.



4 Press the **MENU** button on the remote control. The main menu bar will appear at the top of the screen. Tilt the joystick to highlight the desired menu item then press the **ENTER** button. (In this example, "Dest" is selected.)



5 The **Find Destination by** menu appears. Tilt the joystick to select the desired method, then press the **ENTER** button. (This example shows when "Point of Interest" is selected.)

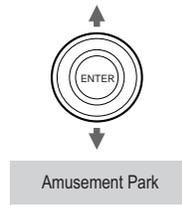
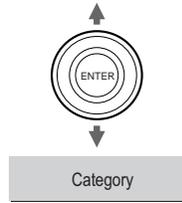


Continued next page

Basic Operation (continued)

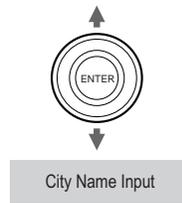
6 The **Find Point of Interest by** menu appears. Use the joystick to select a method to find the point of interest. (In this example, "Category" is being selected.)

The category list appears. Move the joystick up or down to select the desired category, then press **ENTER**. (This example shows when "Amusement Park" is selected.)

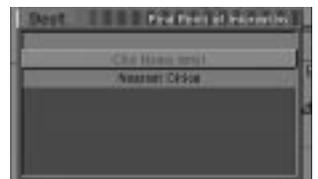
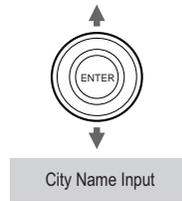


7 The **Find Point of Interest by** menu appears. Use the joystick to select a method to find the point of interest and press **ENTER**. (In this example, "City Name Input" is being selected.)

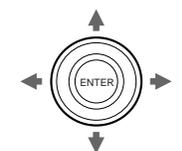
Note: If you select "Sorted by distance," a list of destinations will appear, sorted by the distance from your current location.



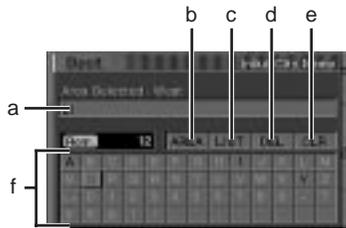
8 The **Find Point of Interest by** menu appears again. Use the joystick to select a method to find the point of interest and press **ENTER**. (In this example, "City Name Input" is being selected.)



9 The **Input City Name** screen appears. Use the joystick to select the first letter of the city name and press **ENTER**. The entered character appears in the text window.



The characters selected are displayed in the text window.



- a. Text window
Displays the selected characters.
- b. AREA
Selects areas other than the current-vehicle-position area.
- c. LIST
Displays a list of the candidate names for the selected characters.
- d. DEL
Returns to the previous character and erases it.
- e. CLR (Clear)
Clears the text window.
- f. Character pallet
Select the desired characters.



- When 1 character is input, the candidates for the next character are narrowed down (and the others disappear from the character pallet).
- You can also search for a location by inputting just the start of its name and selecting "LIST."
- If you want to display the list of candidate city names, select "LIST" and press ENTER. If the number of candidates narrows down to less than 7, the display automatically shows the Select City screen. Skip to Step 10.

To search in other areas:



The current area being searched is shown as "WEST."

The selected area map is displayed.



Current area map (West area shown).

Select the area to be searched by tilting the joystick and pressing **ENTER**. For example, if you wish to go to Texas, select **SW** or the "South West" area.

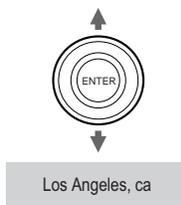
The Input City Name screen will appear and will show "South West" as the area selected.

Proceed to step 10.



Basic Operation (continued)

- 10** The **Select City** screen appears. Use the joystick to enter a city name and scroll down to select that city. Press **ENTER** when finished.

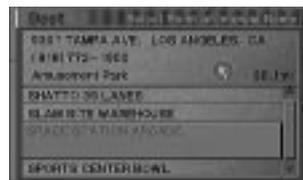
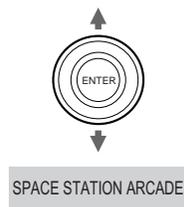


- 11** The **Input Point of Interest Name** screen appears. Once you have entered a few characters, select **LIST** at the top of the character pallet and press **ENTER**.

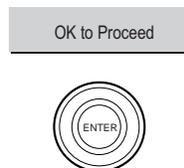


If there is no location with the input spelling, locations with similar spelling are displayed.

- 12** The **Select Point of Interest Name** screen appears. Scroll through the names to select the desired destination, then press **ENTER**. (This example shows when "SPACE STATION ARCADE" is selected.)



- 13** Once the destination is selected, the **Confirm Destination** screen appears. If the destination is correct, select **OK to Proceed** then press **ENTER**.



- If you want to verify or modify the location of your destination, directly on the map, highlight "Map" and press ENTER. The Detailed Map Display will appear showing the crosshair icon at the destination point. Press ENTER to return to the Confirmation screen.
- If the cellular phone interface is installed, the "Call" option will also be accessible. Select this option if you want the Navigation System to call your destination using the number listed in the database.

14 The navigation system quickly calculates the route to the desired destination.



15 The map screen shows your current vehicle position and a highlighted route. Once you begin to drive on the highlighted route, the system will guide you to the destination using on-screen maneuver directions and voice prompts. (If the system determines that you are currently on the route to the destination, it will automatically announce the next maneuver once you approach the next turn.)



Once you arrive at your destination you should cancel the route guidance by pressing the DEL DEST button on the remote control (see page 46 for further information). Otherwise, the navigation system will continue to guide you to this destination as you drive away from this location.

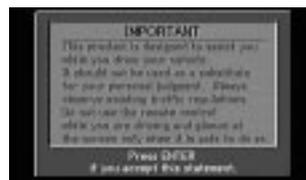
Switching the display on/off

When the ignition key is turned to the ACC or ON positions, the opening screen will automatically appear.

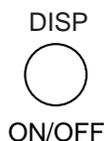
- 1** After the opening screen is displayed, important information will be displayed. Make sure that it is read carefully. (If you have the CVA-1000/CVA-1005 system control monitor, the opening screen may not be displayed.)



- 2** After you have read this important information, press the **ENTER** button. The map screen is displayed.



- 3** From any screen or menu, you may switch the external monitor or CVA-1000/CVA-1005 type unit's NAV source off by pressing the **DISP ON/OFF** button on the remote. When you press the **DISP ON/OFF** button again, the display turns back on.

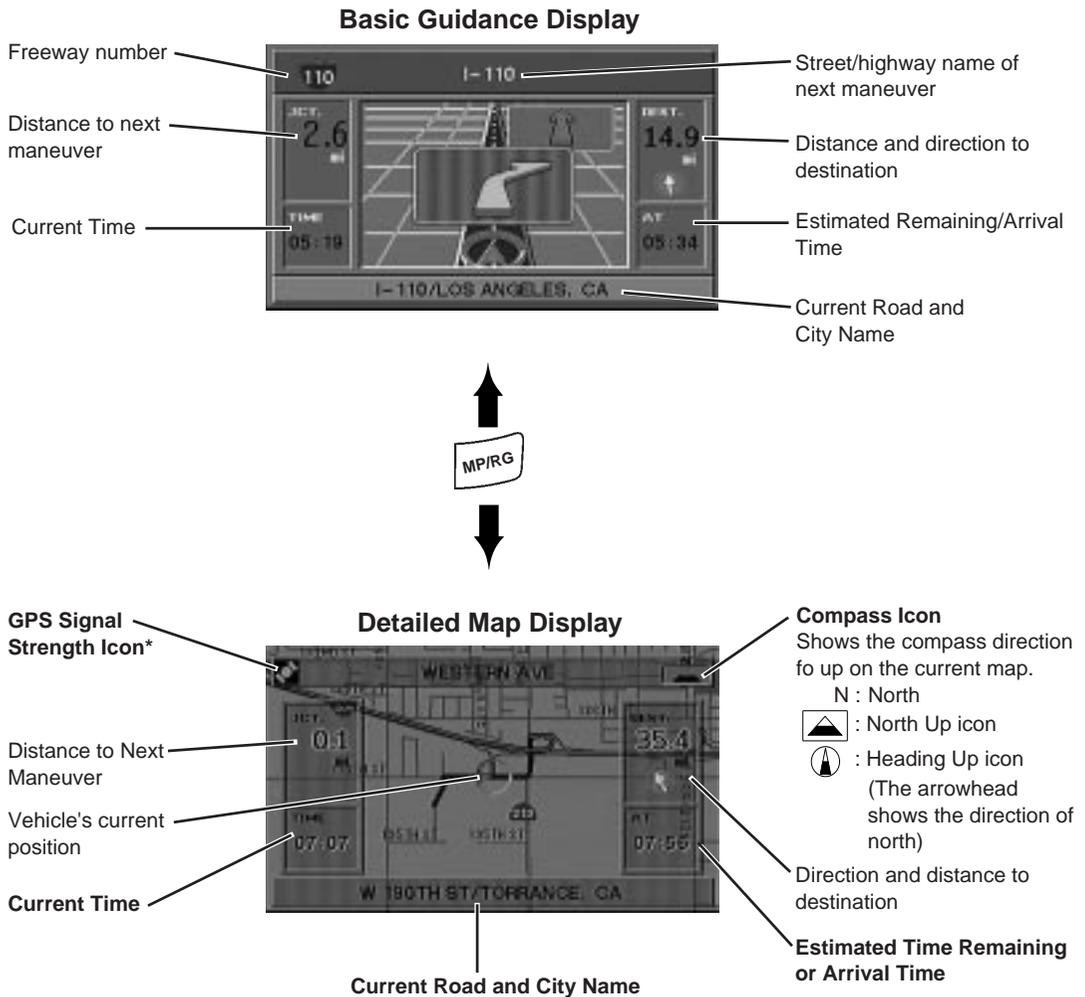


- If the DVD-ROM is not inserted in the navigation system, "Please insert DVD-ROM." is displayed. For details on how to load the DVD-ROM, see "Inserting the DVD-ROM" and "Removing the DVD-ROM" in the navigation system's Hardware Manual.
- If the DVD-ROM cannot be read or is inserted incorrectly, "Error reading DVD-ROM." will be displayed on the screen. Try reloading the DVD-ROM correctly. If the message does not disappear, contact your local Alpine navigation dealer.
- If the navigation system display is kept on with the engine off for an extended period of time, the vehicle's battery may discharge. Make sure the system is turned off when you leave the vehicle.

Switching between map and guidance displays

Once the route has been calculated and driving begins, the navigation system will guide the driver, turn-by-turn, to the destination. Real time voice directions and map displays aid the driver throughout the entire route.

The type of display that appears during your trip can be selected according to your preference. The Basic Guidance Display automatically appears when the destination is selected while the vehicle is in motion. Pressing the MP/RG button on the remote control toggles the display between the Basic Guidance Display and the Detailed Map Display.



*GPS Signal Strength Color Key

Dark Gray: No satellite information being received.

Blue: Information from 1 to 3 satellites being received. Latitude and longitude information can be determined.

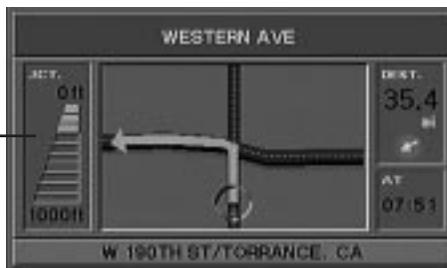
Yellow: Signals from 4 or more satellites being received. Indicates full signal strength. Latitude, longitude and altitude can be accurately determined.

Switching between map and guidance displays (continued)

During navigation, when your vehicle approaches an intersection, the Zoomed Intersection Map of that intersection is displayed. This enlarged Intersection Map gives you further information to the voice guidance. (Sometimes, the enlarged crossroad map is displayed even when you are going to go straight.)

Zoomed Intersection Map Display

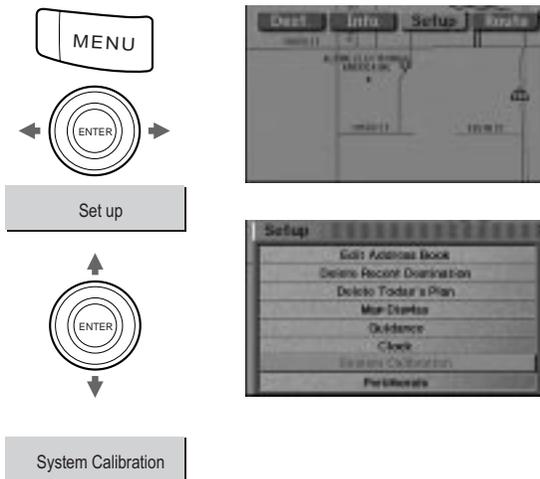
This shows the remaining distance to the next junction/intersection 3000 feet ahead on a freeway or 1000 feet ahead on an ordinary road.



Manual backup

The navigation system will automatically back up (save) your new settings (for example, memory point settings etc.) when the ignition switch is turned off and turned on again. If the battery leads should be disconnected from the vehicle's battery, be sure to manually back up your new settings before disconnecting the battery leads as described below.

1 Press the **MENU** button to display the main menu bar. Select **Setup** and press **ENTER**. The Setup Menu appears. Select **System Calibration** and press **ENTER**.



2 Highlight **System Back Up** and press **ENTER**.



3 The **User Memory Backup** screen appears. If you would like to save your settings to Flash ROM, select "**Yes**" and press **ENTER**.



4 The navigation system begins the backup process and the display darkens. Once the backup process is complete, the opening screen will appear.



Manual backup (continued)

- 5 The disclaimer screen appears. After you have read this important information, press the **ENTER** button. The map screen will appear.

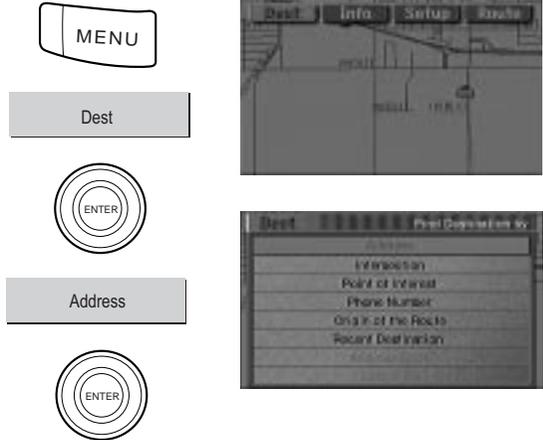


DESTINATION MENU

Entering a destination by Address

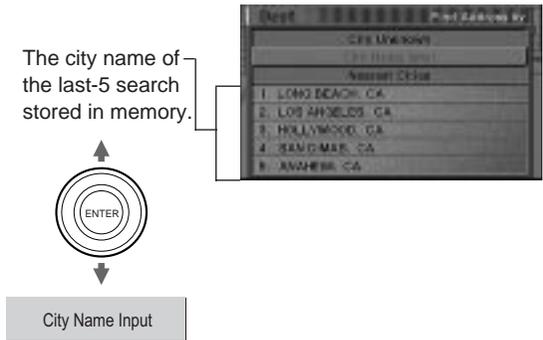
This section describes how to input your destination in the form of an address. The destination can be input in one of eight different ways: by an address, an intersection, a point of interest, a location's phone number, a recent destination, the personal address book, "Today's Plan" or by selecting directly from the map. If you know the address of the destination, the system can calculate a route to that address.

1 Press the **MENU** button to display the main menu bar. Select (highlight) **Dest** from the main menu and press **ENTER**. A list of input methods appears. Select **Address** and press **ENTER**.

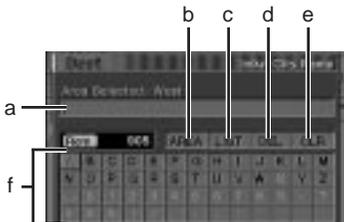


2 The **Find Address by** screen is displayed. Use the joystick to select one of the following methods used to find an address and press **ENTER**.

- Select **City Unknown** if you want to search for the street name and don't know the city name.
- Select **City Name Input** if you want to search for the city name first. For this example, the City Name Input method is selected.
- Select **Nearest Cities** if you want to search for an address in the 7 nearest bordering cities.



The characters selected are displayed in the text window.



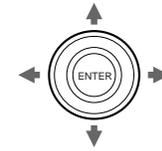
- Text window displays the selected characters.
- AREA
Select areas other than the current-vehicle -position area.
- LIST
Displays a list of the candidate names for the selected characters.
- DEL
Returns to the previous character and erases it.
- CLR (Clear)
Clears the text window.
- Character pallet
Select the desired characters.

Entering a destination by Address (continued)

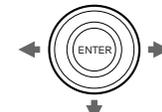
- 3** The **Input City Name** screen is displayed. Use the joystick to select the first character of the city name and press **ENTER**. The selected character appears in the text window.



- When 1 character is input, the candidates for the next character are narrowed down (and the others disappear from the character pallet).
- You can also search for a location by inputting just the start of its name and selecting "LIST."
- If you want to display the list of candidate city names, select "LIST" and press ENTER. If the number of candidates narrows down to less than 7, the display automatically shows the Select City screen. Skip to Step 4.



L



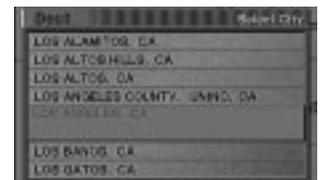
LOS



- 4** The **Select City** screen appears. Use the joystick to enter a city name and scroll down to select that city. Press **ENTER** when finished.

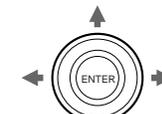


LOS ANGELES, CA



- 5** The **Input Street Name** screen appears. Enter the street name.

When finished inputting the street name, select **LIST** at the top of the character pallet and press **ENTER**.

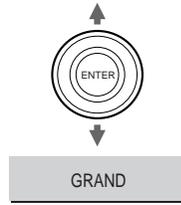


GRAND



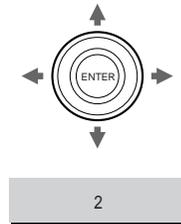
- If the number of candidates narrows down to less than 7, the display automatically shows the **Select Street Name** screen. Skip to Step 6.

6 The **Select Street Name** screen appears. Use the joystick to enter a street name and scroll down to select that street. Press **ENTER** when finished.

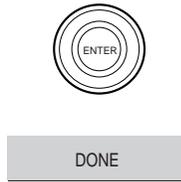


7 The **Input Address Number** screen appears. Enter the house or building number for the destination by using the joystick and pressing **ENTER** after each entry.

A range of valid street numbers will be shown just below the input window.

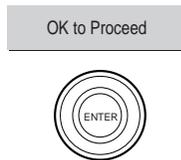


8 When you have entered the entire street address, use the joystick to select **DONE** and press **ENTER**.



9 The **Confirm Destination** screen appears. Select **OK to Proceed** and press **ENTER**. The system will begin calculating the route.

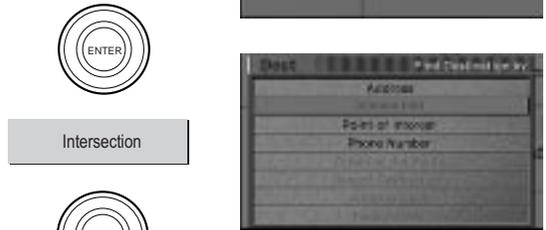
Note: If you wish to add this entry to Today's Plan, select **Add to Today's Plan** (see page 35). To store this destination in your personal address book, select **Option Menu** (see page 34).



Entering a destination using an Intersection

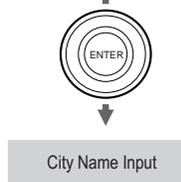
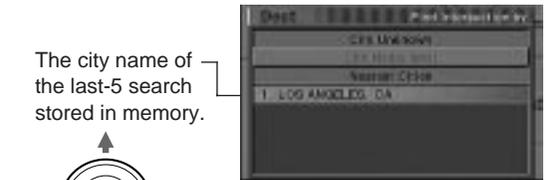
If you know an intersection near where you want to go, you can input two cross streets as your destination. This section describes how to input a destination by entering two cross street names.

1 Press the **MENU** button to display the main menu bar. Select **Dest** from the main menu and press **ENTER**. The **Find Destination** by menu is displayed. Select **Intersection** and press **ENTER**.



2 The **Find Intersection by** screen is displayed. Use the joystick to select one of the following methods used to find an address and press **ENTER**.

- Select **City Unknown** if you want to search for the street name and don't know the city name.
- Select **City Name Input** if you want to search for the city name first. For this example, the City Name Input method is selected.
- Select **Nearest Cities** if you want to search for an address in the 7 nearest bordering cities.



3 The **Input City Name** screen is displayed. Use the joystick to select the first character of the city name and press **ENTER**. The selected character appears in the text window.



4 The **Select City** screen is displayed. Use the joystick to enter a city name and scroll down to select that city. Press **ENTER** when finished.



5 The **Input Street Name** screen is displayed.

Enter the street name in the same manner as Step 3.

When character inputtings have been completed, select **LIST** at the top of the character pallet and press **ENTER**.



If the number of candidates narrows down to less than 7, the display automatically shows the **Select Street Name** screen. Skip to Step 6.



LIST



6 The **Select Street Name** screen is displayed.

Use the joystick to enter a street name and scroll down to select that street. Press **ENTER** when finished.



HARBOR



7 The **Input Cross Street Name** screen is displayed.

Enter the street name in the same manner as Step 3.

When the character inputtings have been completed, select **LIST** at the top of the character pallet and press **ENTER**.

Note: If "Street Name Input" is selected first, and the intersection exists in multiple cities, you will need to select the city name in which the desired intersection exists.



If the number of candidates narrows down to less than 7, the display automatically shows the **Select Cross Street Name** screen. Skip to Step 8.



LIST



8 The **Select Cross Street Name** screen is displayed.

Use the joystick to enter a cross street name and scroll down to select that cross street. Press **ENTER** when finished.



NEWPORT



Entering a destination using an Intersection (continued)

9 The **Confirm Destination** screen is displayed. If the specified cross streets are correct, select **OK to Proceed** and press **ENTER**. The system will start to calculate the route.

Note: If you wish to add this entry to Today's Plan, select Add to Today's Plan (see page 35). To store this destination in your personal address book, select Option Menu (see page 34).

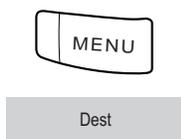
OK to Proceed



Entering a Point of Interest by Place Name

The navigation system allows you to enter a Point of Interest in one of three ways. This can either be by place name, place type or phone number.

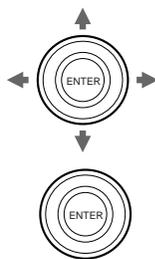
1 Press the **MENU** button to display the main menu bar. Select **Dest** from the main menu, then press **ENTER**. The **Find Destination by** menu appears. Select **Point of Interest** and press **ENTER**.



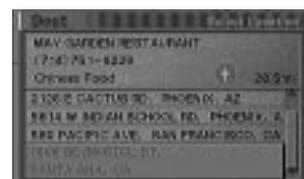
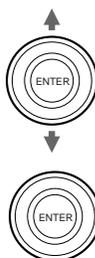
2 Select **Name** from the **Find Point of Interest by** menu and press **ENTER**.



3 The **Input Point of Interest Name** screen is displayed. Use the joystick to select the first character of the place name and press **ENTER**. The selected character appears in the text window.



4 The **Select Point Interest Name** screen is displayed. To select a place, scroll through the list, highlight the correct place name and press **ENTER**.



If there are multiple locations to a certain place name, the system will display the number of locations available. In this example, MAY GARDEN RESTAURANT shows 5 locations listed. To view the available locations, select MAY GARDEN RESTAURANT from the list and press ENTER. The 5 locations will be listed from which you may make a selection.

Entering a Point of Interest by Place Name (continued)

5 The **Confirm Destination** screen appears. If the destination is correct, select **OK to Proceed** and press **ENTER**. The system starts calculating a route to the destination.

Note: If you wish to add this entry to Today's Plan, select Add to Today's Plan (see page 35). To store this destination in your personal address book, select Option Menu (see page 34.)

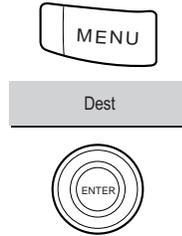
OK to Proceed



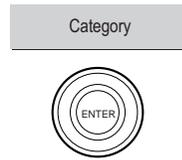
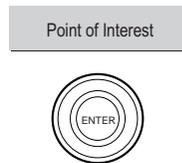
Entering a Point of Interest by Category

If you know the type of place you are headed to, you can search for a destination by place type by selecting from a list of categories. The following example shows how to select the shopping center, "Triangle Square" in Costa Mesa, California.

1 From any screen, press the **MENU** button to show the main menu bar on the top of the screen. Select **Dest** from the menu bar, then press **ENTER** to display the **Find Destination by** menu.



2 Select **Point of Interest** and press **ENTER**. This will display the **Find Point of Interest by** menu. Select **Category** from the **Find Point of Interest by** menu and press **ENTER**.



3 A list of categories is displayed. Select the desired category (in this example, **Shopping Center**) and press **ENTER**.

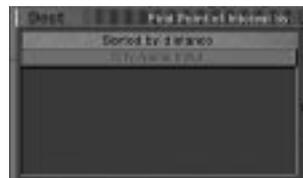
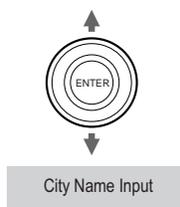


Entering a Point of Interest by Category (continued)

- 4** This will display the **Find Point of Interest by** menu. Select "**City Name Input**" from the "Find Point of Interest by" menu and press **ENTER**. (In this example, "City Name Input" is being selected.)

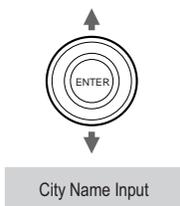
When "Sorted by distance" is selected, the list showing the place names for the selected category is shown in order of distance from the current vehicle position.

Select the desired city name and press **ENTER**, then proceed to Step 8.

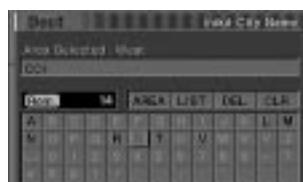
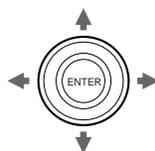


- 5** The **Find Point of Interest by** menu appears. Use the joystick to select a method to find the point of interest. (In this example, "City Name Input" is being selected.)

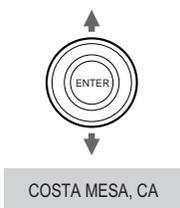
- Select **Nearest Cities** if you want to search for an address in the 7 nearest bordering cities.



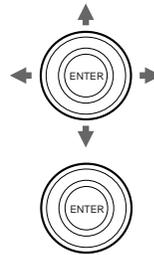
- 6** The **Input City Name** screen is displayed. Use the joystick to select the first character of the city name and press **ENTER**. The selected character appears in the text window.



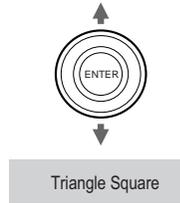
- 7** The **Select City** screen appears. Use the joystick to enter a city name and scroll down to select that city. Press **ENTER** when finished.



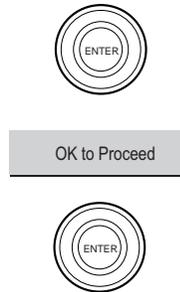
8 The **Input Point of Interest Name** screen is displayed. Use the joystick to select the first character of the place name and press **ENTER**. The selected character appears in the text window.



9 The **Select Point of Interest Name** screen appears. To select a place, scroll through the list, highlight the correct place name (in this example, Triangle Square is selected) and press **ENTER**.



10 The name and address of the selected destination appear in the **Confirm Destination** screen. If the destination is correct, select **OK to Proceed** and press **ENTER**.



Note: If you wish to add this entry to Today's Plan, select Add to Today's Plan (see page 35). To store this destination in your personal address book, select Save in Address Book (see page 34).

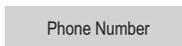
11 The navigation system starts calculating a route to the destination.

Entering a Point of Interest by Phone Number

If you know the phone number of the Point of Interest you are headed to, use this function to find the address for the destination.

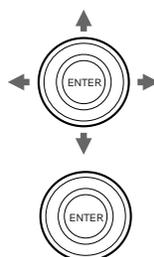
- 1 Press the **MENU** button to display the main menu bar. Select **Dest** and press **ENTER**.

The **Find Destination by** menu appears. Select **Phone Number** and press **ENTER**.



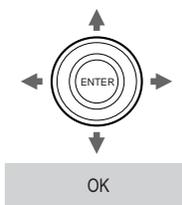
- 2 The **Input Phone Number** screen is displayed.

Use the joystick to select the first digit of the phone number and press **ENTER**. Enter the phone number including the area code.

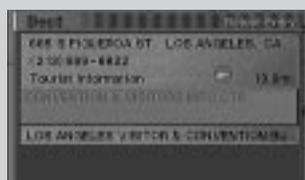


The phone number can be input using the numeric keypad on the remote control. For operation, see the Remote Control Reference Guide.

- 3 After entering the entire phone number including the area code, select **OK** and press **ENTER**.



If the input phone number is used at more than 2 places, the display shows **Select Entry** screen. To select a desired place, scroll through the list, highlight the correct place name and press **ENTER**.



4 The **Confirm Destination** screen appears showing the address of the selected destination. If it is correct, select **OK to Proceed** and press **ENTER**. The system starts calculating a route to the destination.

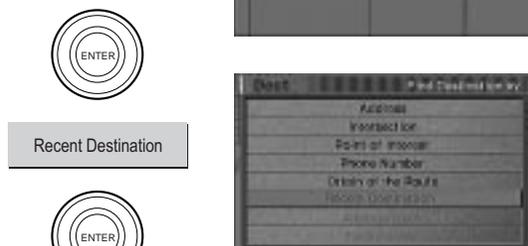
OK to Proceed



Entering a destination by Recent Destination

If your destination is one of the twenty most recent route calculations, you can recall that destination using the procedure described in this section.

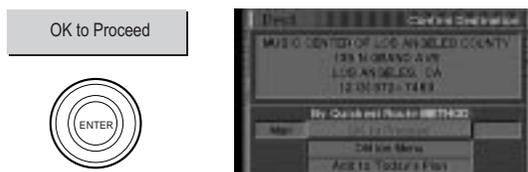
- 1 Press the **MENU** button to display the main menu bar. Select **Dest** and press **ENTER**. The **Find Destination by** menu appears. Select **Recent Destination** and press **ENTER**.



- 2 A list of up to 20 most recent destinations is displayed. Select the desired destination and press **ENTER**.



- 3 The address of the selected destination appears in the **Confirm Destination** screen. If it is correct, select **OK to Proceed** and press **ENTER**. The system starts calculating a route to the destination.

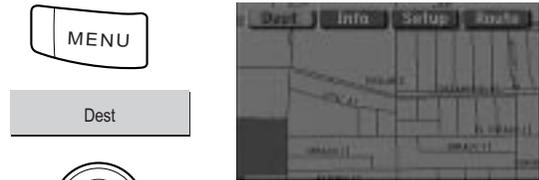


Note: If you wish to add this entry to Today's Plan, select Add to Today's Plan (see page 35). To store this destination in your personal address book, select Option Menu (see page 34).

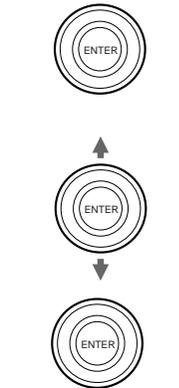
Entering a destination using the Address Book

If a location has already been placed into your personal address book, you can recall this location for use as a destination. The Address Book holds up to 99 different addresses and phone numbers. For more information on how to store locations in the address book, see page 34.

1 Press the **MENU** button to display the main menu bar. Select **Dest** from the menu and press **ENTER**. The **Find Destination by** menu appears. Select **Address Book** and press **ENTER**.



2 Your personal entries are listed in alphabetical order. Scroll through the list to select the destination and press **ENTER**.



3 The name and address of the selected destination appear in the **Confirm Destination** screen. If they are correct, select **OK to Proceed** and press **ENTER**. The system starts calculating a route to the destination.

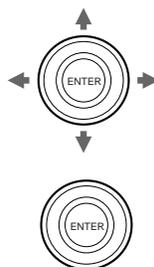


Note: If you wish to add this entry to Today's Plan, select Add to Today's Plan (see page 35).

Entering a destination directly from the Map Display

This feature allows quick and easy selection of a new destination directly from a street segment or Point of Interest icon on the Detailed Map Display. By selecting a street segment or icon, you can quickly enter a destination without the need to input the city name, street, etc. It operates even while in Guidance Mode.

- 1** During normal navigation with the **Detailed Map Display** in view, move the **cursor** from the **Present Vehicle Position** icon to the new desired street or POI icon destination. As you move the cursor it will change from the Present Vehicle Position icon to the Map Crosshair icon. You do not need know the names of either the streets or POI. Press **ENTER**.



To move greater distances on the Detailed Map Display quickly, use the Zoom keys on the remote control to zoom out. Then use the joystick to move in any of 8 different directions. When the approximate location has been reached, zoom back in for more detail.

- 2** A call-out appears indicating the street and city name. If you chose a POI icon, its name will appear in a Place Name list. To confirm this as your destination, press **ENTER**.



- 3** The **Confirm Destination** screen appears. Select **OK to Proceed** and press **ENTER**. The system starts calculating the route.

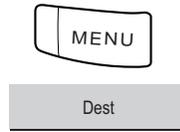
OK to Proceed



Entering a destination by Origin of the Route

The starting point being set can be used as a destination. This is a very convenient feature when setting the return route.

1 Press the **MENU** button to display the main menu bar. Select **Dest** from the menu and press **ENTER**. The **Find Destination by** menu appears. Select **Origin of the Route** and press **ENTER**.



2 The **Confirm Destination** screen appears. Select **OK to Proceed** and press **ENTER**. The system starts calculating the route.

Note: If you wish to add this entry to Today's Plan, select Add to Today's Plan (see page 35). To store this destination in your personal address book, select Option Menu (see page 34).

Saving a destination into the Address Book

Up to 99 addresses can be stored alphabetically in the Address Book.

1 Whenever a destination is selected and entered, the system allows you to save the address. Select **Option Menu** and press **ENTER**.

Option Menu



2 The "Option Menu" screen is displayed. Select **Save in Address Book** and press **ENTER**.



Save in Address Book



3 The system automatically registers the point into the Address Book. During the registering procedure, the display shows, for example, "No. 1 Registered" message when a point is registered in the Address Book for the first time.



4 The name, address and phone number are now stored in the address book. The confirmation screen will reappear showing the saved information. Press the **MP/RG** button on the remote control to return to the current vehicle position screen.

MP/RG



Adding a destination into Today's Plan

Today's Plan will calculate the most efficient travel order for multiple destinations. Up to 8 destinations can be stored in "Today's Plan." This section describes how to add a destination into "Today's Plan."

1 Whenever a destination is selected and entered by any method, the **Confirm Destination** screen is displayed. Select **Add to Today's Plan** and press **ENTER**.

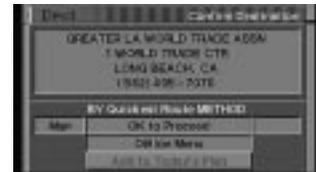
Add to Today's Plan



2 The **Today's plan list** is displayed with the added destination highlighted.



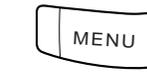
Press the **ENTER** button. The system returns to the **Confirm Destination** screen. To add more entries to Today's Plan, repeat step 1.



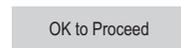
Using the Today's Plan Function

Today's Plan will calculate the most efficient travel order for multiple destinations. Up to 8 destinations can be stored in "Today's Plan." This function has two settings, Auto and Manual. Manual will route you to each destination in the order which they were entered. Auto will route you to each destination in the most efficient travel order. The following example shows Today's Plan function used in the Auto setting.

1 Press the **MENU** button to display the main menu bar. Select **Dest** from the menu and press **ENTER**. The **Find Destination by** menu appears. Select **Today's Plan** and press **ENTER**.



2 The **Confirm Destination** screen appears. If you would like to visit this destination first, select **OK to Proceed** and press **ENTER**. If you would like to select a different destination to route to first, select **Today's Plan List** and press **ENTER**.



3 **Today's plan list** will appear. Use the joystick to select the destination you would like to visit first and press **ENTER**.



4 The system calculates the new destination order and displays the confirmation screen. If the new destination is acceptable, select **OK to Proceed** and press **ENTER**. If you want to change the destination again, repeat Steps 2 to 3 above.

OK to Proceed



If you would prefer to determine the order of the destinations yourself, you may select Manual from the Today's Plan screen in the Route Options for Today's Plan calculation. After selecting the first destination, use the PLAN button on the remote to delete the destination, then select your next destination (see page 76). See the Setup section on page 55 for setting this option.

Setting Waypoints

You can set up to 5 waypoints from your current location to the current destination. Set these points before selecting **OK** from the **Confirm Destination** screen.

1 Whenever a destination is selected and entered, the system allows you to save the address as a waypoint. Select **Option Menu** and press **ENTER**.

Option Menu

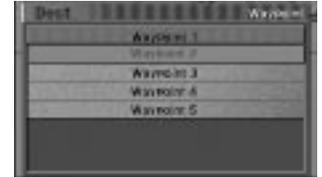


2 The **Option Menu** screen is displayed. Select **Set as Waypoint** and press **ENTER**.

Set as Waypoint



3 **Waypoint** Number setting menu is displayed. These points should be set as Waypoint 1, Waypoint 2, Waypoint 3 and so on in order in which they will be passed through. Up to 5 points (max.) can be set.



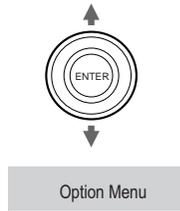
4 When the route search is complete, the current location is displayed. When you start driving this route, the guidance begins to the first waypoint.



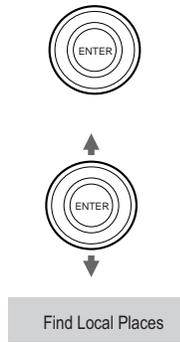
Searching from local points

The system can display up to 7 points (max.) of interest in a range of 6 miles around the crosshair icon such as ATM, Bank, Gas station, Grocery store, Hotel, Parking and Restaurant. You can search for the desired destination from these local points.

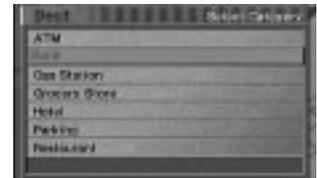
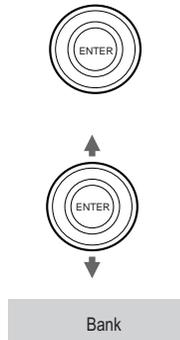
1 Whenever a destination is selected and entered by moving the cursor or searching from its address, etc. the system displays the **Confirm Destination** screen. Select **Option Menu** and press **ENTER**.



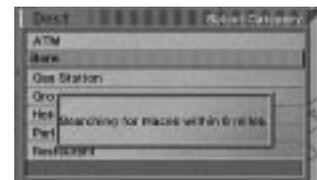
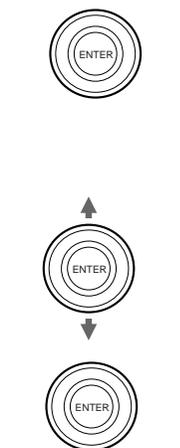
2 The "Option Menu" screen is displayed. Select **Find Local Places** and press **ENTER**.



3 The **Select Category** screen is displayed. Select a desired category and press **ENTER** (in this example, Bank).



4 The **Select Point of Interest Name** menu appears. Select the desired point of interest name (in this example, Premier America Federal CU is selected) and press **ENTER**.



Searching from local points (continued)

- 5** The address of the selected destination appears in the **Confirm Destination** screen. If it is correct, select **OK to Proceed** and press **ENTER**. The system starts calculating a route to the destination.

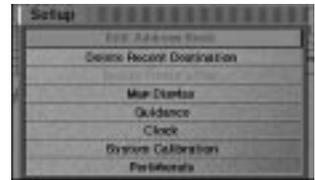
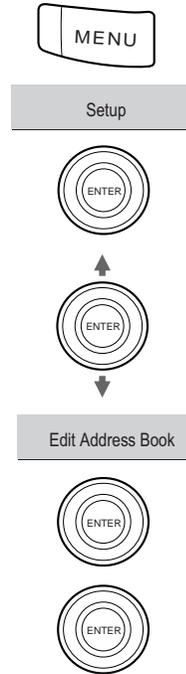
OK to Proceed



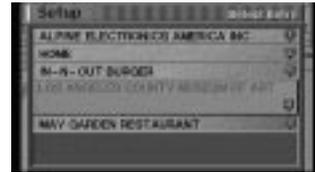
SETUP/EDITING MENU

Address Book editing

- 1** Press the **MENU** button to display the main menu bar. Select **Setup** and press **ENTER**. The Setup Menu appears. Select **Edit Address Book** and press **ENTER**.



- 2** The entries in your Address Book are listed in alphabetical order. Select an entry you would like to modify or delete and press **ENTER**. (In this example, Los Angeles County Museum of Art is chosen.)



a Map Display

The selected point is displayed on the map.

b Deletion

The confirmation message for deletion is displayed. (See below.) Select "yes" to execute the deletion.



c Name

You can give a name to a registered point. → Go to Page 42 Name Editing.

d Telephone number

Telephone number information can be added to an **Address Book** entry. → Go to Page 43 Telephone Number Editing.

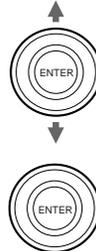
e Special setting

Such information as avoid points and beep points can be added to registered points. → Go to Page 44 Special Settings.

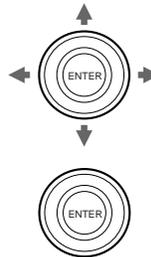
Address Book editing (Name Editing)

See page 41 for steps 1 and 2.

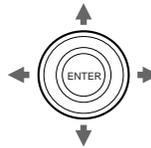
- 3** Select an entry you would like to modify or delete and press **ENTER**.
(In this example, E Monlaco RD is chosen.)



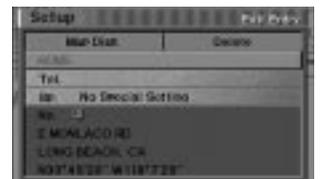
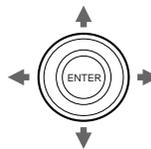
- 4** Select the name and press **ENTER**.



- 5** The **Input Name for Address Book** screen appears. Select **CLR** (Clear) and press **ENTER**. The current entry will be erased.



- 6** Use joystick to change the address book entry. In this example, E MONLACO RD is changed to HOME.

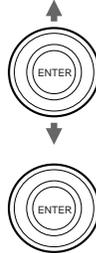


When finished entering the new name, select **DONE** and press **ENTER**.

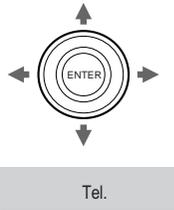
Address Book editing (Phone Number Editing)

See page 41 for steps 1 and 2.

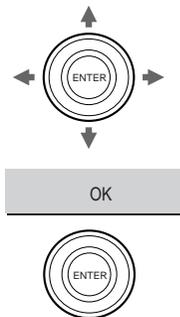
- 3** Select an entry you would like to modify or delete and press **ENTER**.
(In this example, ALPINE ELECTRONICS... is chosen.)



- 4** Select **Tel.** and press **ENTER**.



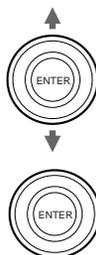
- 5** The **Input Phone Number** screen appears.
Use joystick to add or edit the phone number (valid for only 0 or 10 digits).
Select **OK** and press **ENTER**.



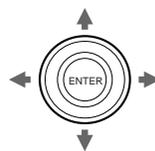
Address Book editing (Special Settings)

See page 41 for steps 1 and 2.

- 3** Select an entry you would like to modify or delete and press **ENTER**.
(In this example, May Garden Restaurant is chosen.)



- 4** Select **Sp.** and press **ENTER**.



- 5** The **Special Setting** screen appears. Select the desired item and press **ENTER**.



■ Setting the point to avoid (POINT TO AVOID)

- This is set when there is a point that you do not want to be covered by route searches. Routes are set to avoid roads between crossroads surrounding that point.
- Five locations can be set. (From X0 to X4 can be displayed on the memory point list.)

■ Setting the point to beep (POINT TO BEEP)

- You can set the system to beep when you are driving and approaching a point requiring particular care (such as a point where accidents occur frequently).
- Up to ten locations can be set including the beep direction points (from B0 to B9).

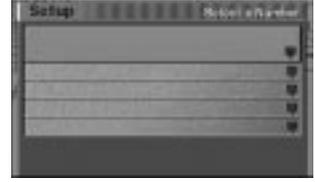
■ Setting the travel direction to beep (BEEP DIRECTION)

- For details on how to set the direction, see Page 68 Direction adjustment.
- You can set the system to beep, not only upon approach to a point but also from a specific direction of travel. For example, you can set the system to beep as you near Las Vegas when travelling from New York to Los Angeles.
- Up to ten locations can be set as directional beep points and beep points (from B0 to B9).

■ Not used (NO SETTING)

- Use to cancel selected avoid points/beep points/directional beep points.

6 The special use setting list is displayed.
Press **ENTER**.



7 The memory editing list is displayed.



Recent Route editing

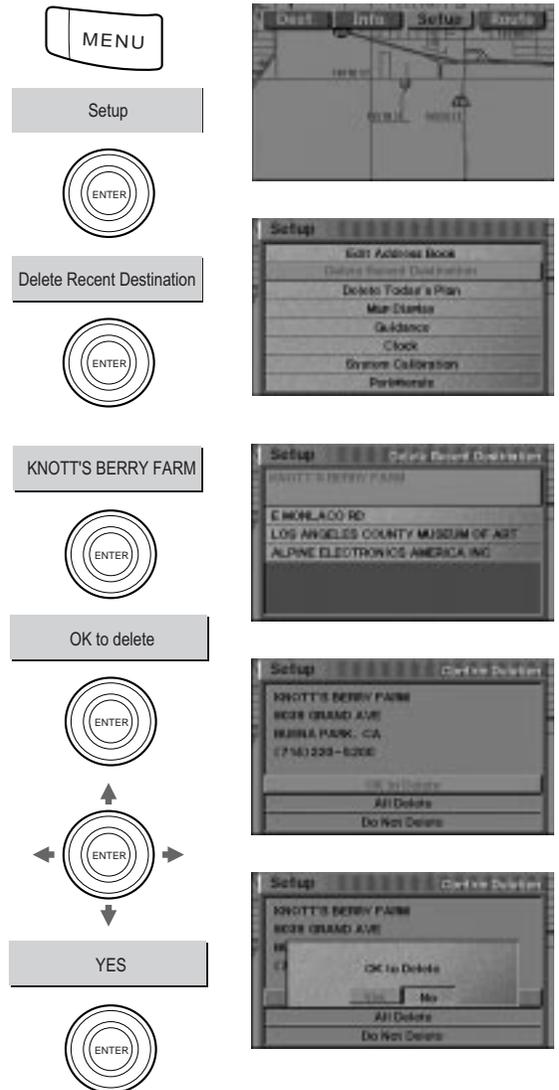
Whenever a route is calculated, the address of the destination is stored into the Recent Route list. The list holds the twenty most recently calculated destinations. Any or all of the twenty previous destinations can be deleted from this list.

1 From any mode, press the **MENU** button to display the main menu bar. Select **Setup** from the main menu, then press **ENTER**. The **Setup menu** appears. Select **Delete Recent Destination** from the Setup menu and press **ENTER**. The **Delete Recent Destination** screen appears with a list of up to 20 most recent routes.

2 Select the address to be deleted and press **ENTER**. In this example, **KNOTT'S BERRY FARM** is selected. The **Confirm Deletion** screen appears. Select **OK to Delete** and press **ENTER**. A confirmation window will appear. Select **Yes** and press **ENTER**.

Press **CANC** button on the remote control or select **Do Not Delete** from the Menu if you do not want to delete the address.

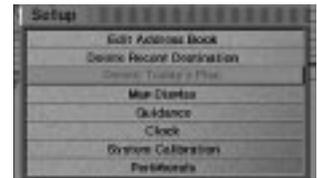
Select **All Delete** to delete all entries from Recent Destinations.



Today's Plan editing

If you wish to delete a destination from Today's Plan, you may use this feature in the Option menu.

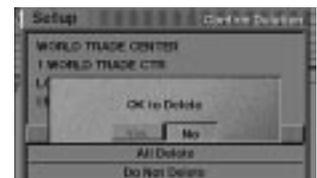
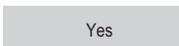
1 Press the **MENU** button to display the main menu bar. Select **Setup** from the main menu, then press **ENTER**. The **Setup** menu appears. Select **Delete Today's Plan** from the **Setup** menu and press **ENTER**. The Today's Plan List appears.



2 Select the address to be deleted and press **ENTER**. In this example, **WORLD TRADE CENTER** is selected. The **Confirm Deletion** screen appears. Select **OK to Delete** and press **ENTER**. A confirmation window will appear. Select **Yes** and press **ENTER**.



Press the **CANC** button on the Remote or select **Do Not Delete** from the Menu if you do not want to delete the address. Select **All Delete** to delete all entries from Today's Plan.



Route editing

The **Edit Route** function allows the driver to remove or rearrange specific points along the way. This allows the driver to customize a route to the destination.

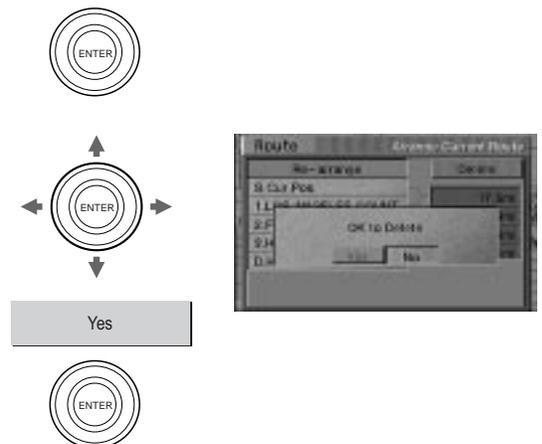
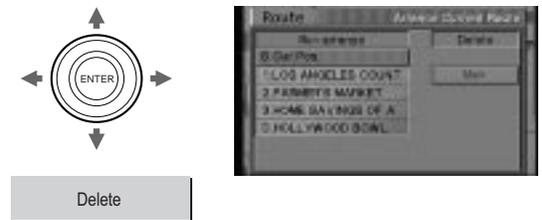
1 Press the **MENU** button to display the main menu bar. Select **Route** and press **ENTER**. The **Arrange Route** menu appears. Select **Edit Route** and press **ENTER**.



2 The **Arrange Current Route** screen is displayed.



3 When you select **Delete** and press **ENTER**, the entire current route will be deleted. Confirmation screen asking you whether you wish to execute the clearance procedure or not. Select **"Yes"** and press **ENTER** if you wish to clear.



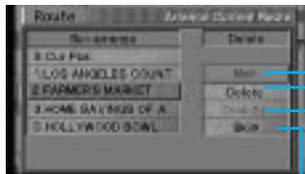
4a Select a point to be edited (the destination, a waypoint, or the departure point) and press **ENTER**. The sub-menu appears as follows.

When destination is selected:



The map for the area around the destination is displayed.

When waypoint is selected:



The map for the area around the waypoint is displayed.

The specified waypoint is deleted if you select "Delete" here then "YES" in the confirmation screen.

Skip — Drop by

When point of departure is specified:



The map for the area around the point of departure is displayed.

4b Select the route between the points to be edited (XX.X mi) and press **ENTER**.

If the route is changed, rerouting is carried out automatically.



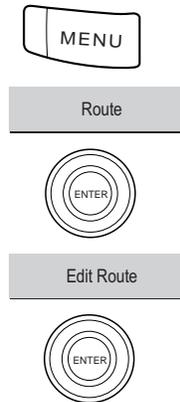
Shows the priority mode between points.

5b The display returns to the Arrange Current Route screen.

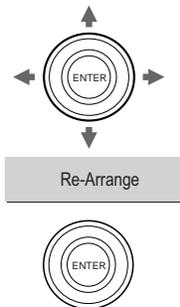
5a Select the desired item from the sub-menu. The selected item is displayed.

Changing order of waypoints

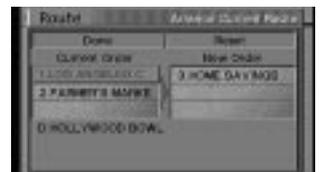
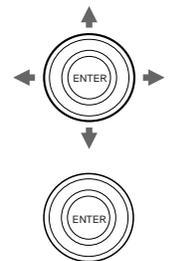
- 1 Press the **MENU** button to display the main menu bar. Select **Route** and press **ENTER**. The Arrange Route Menu appears. Select **Edit Route** and press **ENTER**.



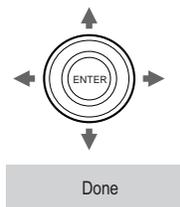
- 2 The **Arrange Current Route** screen is displayed.
- 3 Select **Re-Arrange** and press **ENTER**.



- 4 The waypoint arrangement screen is displayed.
- 5 Select the waypoint you want to go first among the waypoints currently set and press **ENTER**. The selected waypoint moves to the right side. (In this example, Waypoint 3 is changed to Waypoint 1.) Change other waypoints in the same manner.



- 6 The waypoint list with the new sequence is displayed. If the sequence displayed is acceptable, select **"Done"** and press **ENTER**.



To reinstate the original sequence, select **Reset** and press **ENTER**.

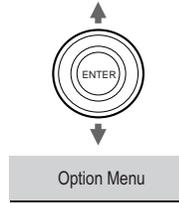
- 7 The System calculates the new route and displays the confirmation screen.



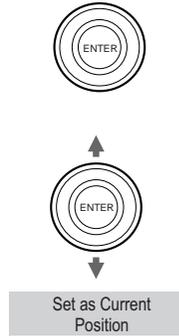
Setting as Current Position

Use this function to correct the location of the present vehicle position icon on the map screen if it is deviated from the real present location of your vehicle.

1 Move the cursor to the real present vehicle location on the map and press **ENTER** twice. The **Confirm Destination** screen is displayed. Select **Option Menu** and press **ENTER**.



2 The **Option Menu** screen is displayed. Select **Set as Current Position** and press **ENTER**.



3 The selected point is set as the current point and the current vehicle position is displayed.



Displaying the entire route

We recommend that before you begin driving the route, you look at the entire route with the all-route display.

- 1 Press the **MENU** button to display the main menu bar. Select **Route** and press **ENTER**. The **Arrange Route** menu appears. Select **Display Entire Route** and press **ENTER**.



- 2 The entire route is displayed on a map with a large enough view that you can see the entire route.



Your current position, waypoints, and the destination icon are displayed.



- 3 When you press the **MP/RG** button, the system returns to the map screen.

MP/RG



With the route displayed, press and hold the \wedge button on the remote control to zoom out until your desired wider range route is obtained. When the button is kept pressed and the widest range is reached, the system automatically stops and displays the entire route.

Press the \wedge button. Each pressing zooms in the map by increasing the magnification ratio one step.



Caution

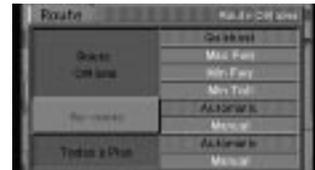
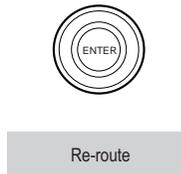
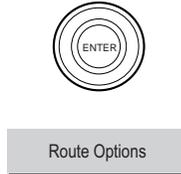
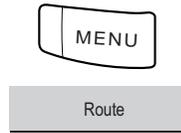
COMPLY WITH THE CURRENT TRAFFIC REGULATIONS WHILE DRIVING

When using the navigation system, always comply with the local traffic regulations on the road while driving.

Changing the off-route recalculation option

If you deviate from the suggested route, the system can recalculate a route to get you back on the way to your destination. You can choose to have the system automatically recalculate the route or await confirmation before recalculating the route.

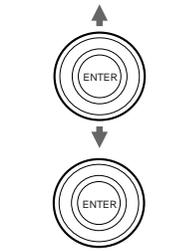
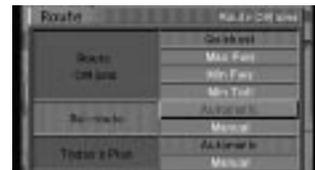
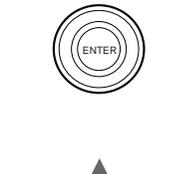
1 Press the **MENU** button to display the main menu bar. Select **Route** and press **ENTER**. The **Arrange Route** menu appears. Select **Route Options** and press **ENTER**.



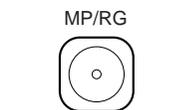
2 Highlight **Re-route** and press **ENTER**.

3 You may select from either **Manual** or **Automatic**. Use the joystick to toggle between the two selections.

- A) When set to **Manual** the system will recalculate a new route when the **DETOUR** button is pressed. (See page 75.)
- B) When set to **Automatic** the system will automatically recalculate a new route if you deviate from the original route.



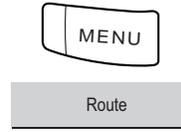
4 Press the **MP/RG** button. The system returns to the Detailed Map display.



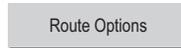
Changing the route calculation method

Depending upon the time of the day and road conditions, you may want to alter the way the system calculates a route.

1 Press the **MENU** button to display the main menu bar. Select **Route** from the menu and press **ENTER**. The **Arrange Route** menu appears.



2 Highlight **Route Options** and press **ENTER**.



3 Tilt the joystick up or down to select from the four choices. Press **ENTER** to select the setting. The method set here will remain in memory as a default setting until you change the setting.



- A) When set to **Quickest**, the system will calculate the most efficient way to arrive at your destination.
- B) The **Max Fwy (Maximize Freeways)** option calculates a route that makes most efficient use of freeways.
- C) When set to **Min Fwy (Minimize Freeways)**, the system will calculate a route that uses mostly surface streets.
- D) The **Min Toll (Minimize Toll Roads)** option calculates a route that uses the least number of pay roads enroute to the destination.

4 Press the **MP/RG** button. The system returns to the Detailed Map display.



Setting the Today's Plan Calculation Method

When using Today's Plan, there are two methods by which the system will calculate a route. In the Auto mode, the system will calculate the most efficient route for travelling to all the destinations in Today's Plan. In the Manual mode, routing will be calculated in the order in which the destinations are listed in Today's Plan List. The user will be prompted for the next destination and may select them in any order from Today's Plan List.

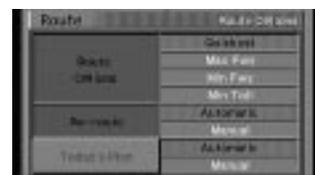
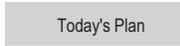
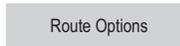
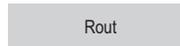
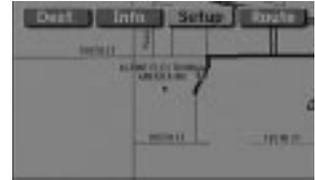
1 Press the **MENU** button to display the main menu bar. Select **Route** from the main menu and press **ENTER**. The **Arrange Route** menu appears.

Select **Route Options** and press **ENTER**.

2 Highlight **Today's Plan** and press **ENTER**.

Choose **Automatic** or **Manual** and press **ENTER** to store your selection (in this case, **Automatic**).

3 Press the MP/RG button. The system returns to the Detailed Map display.



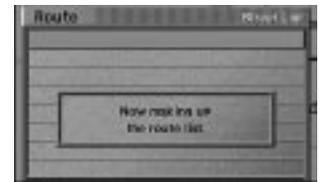
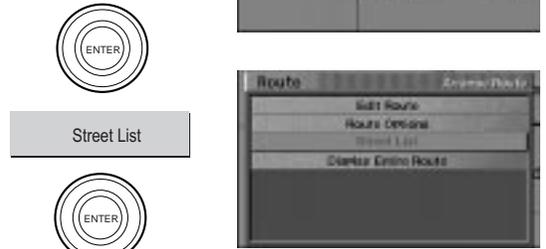
MP/RG



Recalling the Street List during guidance

During route guidance, you may display a list of street names to preview upcoming turns and street names.

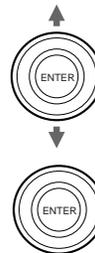
- 1 Press the **MENU** button to display the main menu bar. Select **Route** and press **ENTER**. The **Route** menu appears. Select **Street List** and press **ENTER**.



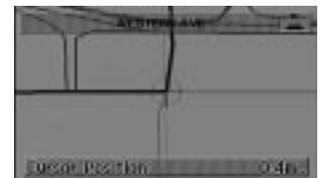
- 2 The **Street List** is displayed. To preview a specific point, select a street name/maneuver and press **ENTER**.



When the LIST button on the remote control is pressed, the street list can be directly displayed.



- 3 The system previews the screen for that particular point (preview screens are denoted by the map in which the specific point is indicated by the crosshair icon). To return to the Guidance mode, press the **MP/RG** button.

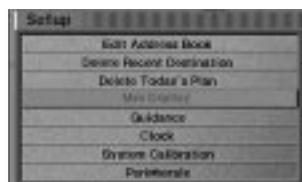
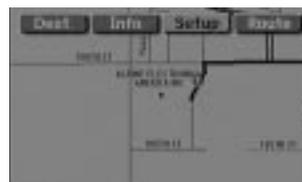


You may scroll Up using the remote control to view the street name following the one you are currently viewing. Scroll Down to view the street name preceding the one you are viewing. You may view the entire street list in this way. If you are already on the first street, scrolling Down will do nothing.

Setting the map color

The system allows you to set the display's map color. For most drivers, a dark tone screen is preferred when driving at night. The system can be set to automatically switch to dark tone screen when headlights are turned on.

- 1 Press the **MENU** button to display the main menu bar. Select **Setup** and press **ENTER**. The **Setup** menu screen appears. Select **Map Display** and press **ENTER**.



- 2 Highlight **Map Color** and press **ENTER**.



- 3 You have 3 choices of display modes:
 - A) **DAY** mode maintains a bright tone screen even while your headlights are on.
 - B) **NIGHT** mode maintains a dark tone screen even when your headlights are off.
 - C) **AUTO** mode switches automatically between Day and Night screen color when your parking lights are turned on and off.



Highlight the mode of your choice (Auto is shown here) and press **ENTER**.

- 4 Press the **MP/RG** button. The system returns to the map screen.

MP/RG



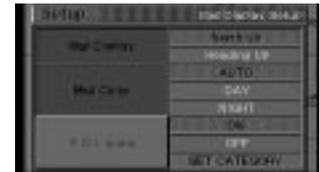
Setting Point of Interest icon options

The system allows you to display some or all of the seven Point of Interest icons on the Detail Map Display at one time. They will appear only in the 1/2, 1/4, 1/8, 1/16 and 1/32 mile magnification scale settings.

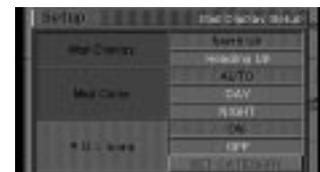
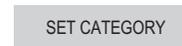
1 Press the **MENU** button to display the main menu bar. Select **Setup** and press **ENTER**. The **Setup** menu appears. Select **Map Display** and press **ENTER**.



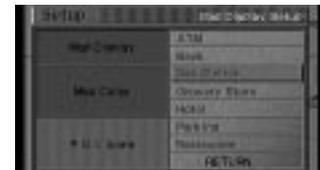
2 Highlight **P.O.I. Icons** and press **ENTER**.



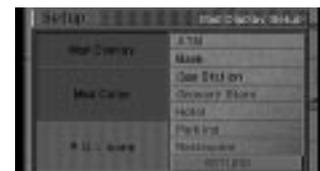
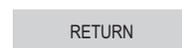
3 Three modes are displayed: ON, OFF, and SET CATEGORY. Select **SET CATEGORY** and press **ENTER**. A list of 7 icons will appear. Highlight any of the following icon types and press **ENTER**:



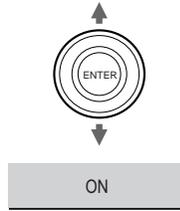
- ATM
- Bank
- Gas Station
- Grocery Store
- Hotel
- Parking
- Restaurant



4 When the category settings have been completed, select **RETURN** and press **ENTER**.



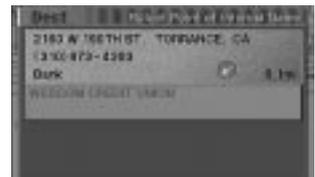
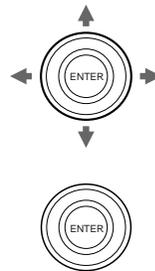
5 Select **ON** from the P.O.I. Icons menu and press **ENTER**.



6 Press the **MP/RG** button. The system returns to the Detailed Map display.



7 Move the **Map Cursor** icon to any of the visible P.O.I. icons, press **ENTER**, and the name and address will appear on the display for that icon.



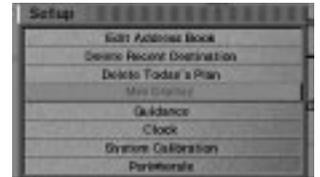
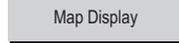
To remove the point of interest icons from the map screen, there are 2 choices:

- Select and darken the icon that you wish to remove as described in step 3.
- Select "OFF" in step 5.

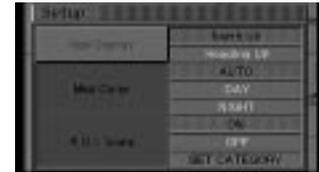
Setting the map screen orientation

The map display can be positioned so that north is always at the top of the display (North Up). This makes it easy to read your current heading from the map. In addition, the vehicle's icon can be positioned so that its current direction is always pointing to the top of the display (Heading Up). In this case, the vehicle's icon will remain frozen in the center of the display while the map rotates with each turn. This makes it easy to see the direction of the next turn on the map.

1 Press the **MENU** button to display the main menu bar. Select **Setup** and press **ENTER**. The **Setup** menu appears. Select **Map Display** and press **ENTER**.



2 Highlight **Map Display** and press **ENTER**.



3 Either **North Up** or **Heading Up** can be selected. Use the joystick to toggle between the two and press **ENTER**.

- A) When set to **North Up**, the map display will always show the map with north facing toward the top of the screen. The Present Vehicle Position icon will rotate on the map.
- B) When set to **Heading Up**, the map display will rotate such that the Present Vehicle Position icon is always pointing toward the top of the screen.



Pressing the N/H button while in detailed map mode will allow you to toggle between "Heading Up" and "North Up" orientation.

4 Press the **MP/RG** button. The system returns to the map screen.

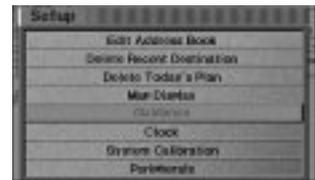
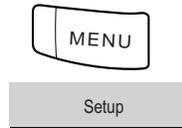
MP/RG



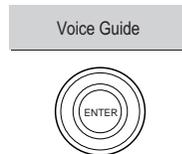
Setting voice guide type/frequency

The system allows you to choose the type or frequency of audible prompts you receive as you are guided along your route.

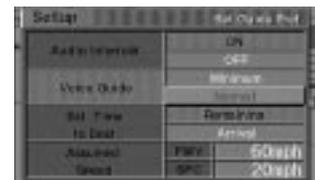
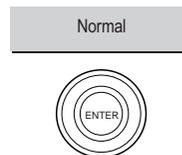
1 Press the **MENU** button to display the main menu bar. Select **Setup** and press **ENTER**. The **Setup menu** appears. Select **Guidance** and press **ENTER**.



2 Highlight the **Voice Guide** selection and press **ENTER**.



3 Two choices are displayed. Highlight one and press **ENTER**.



- A) When set to the **Minimum** mode, the system will emit tones only when approaching upcoming maneuvers.
- B) When set to the **Normal** mode, the system will emit tones and voice instructions when approaching upcoming maneuvers. Voice instructions are announced 1/2 mile before each maneuver on surface streets and one mile before each maneuver on freeways and expressways.

4 Press the **MP/RG** button. The system returns to the Detailed Map display.



Pressing the "VOICE" button on the remote control will give the distance to the next maneuver or repeat the maneuver regardless of the "Voice Guide" setting.

Setting Est. (Estimated) Time display

When the system calculates a route, it also estimates the time it will take to arrive at the destination. It will display this estimate as either "AT" or Arrival Time, or "TO GO," the time remaining to reach the destination. These estimates are displayed under the Direction/Distance display at the right of the Guidance or Map displays.

- 1 Press the **MENU** button to display the main menu bar. Select **Setup** from the main menu and press **ENTER**. The **Setup menu** appears.

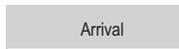
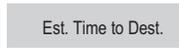
Select **Guidance** from the **Setup** menu and press **ENTER**.

- 2 Highlight **Est. Time to Dest.** and press **ENTER**.

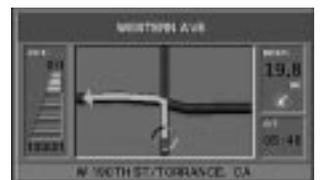
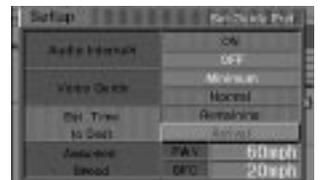
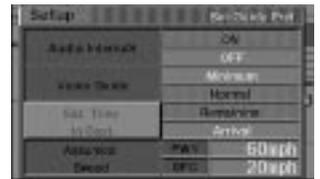
Choose **Arrival** or **Remaining** and press **ENTER** to store your selection (in this case, **Arrival**).

Note: The time estimates are based on the average speed of the vehicle. The **Est. Time** will vary accordingly, as the vehicles speed varies.

- 3 Press the **MP/RG** button. The system returns to the Detailed Map display.



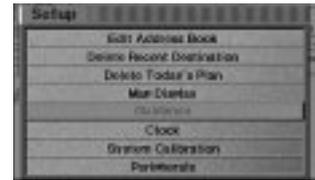
MP/RG



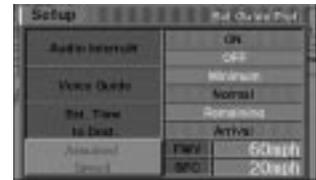
Setting assumed speed

Assumed speed setting for calculation of travel time.

1 Press the **MENU** button to display the main menu bar. Select **Setup** and press **ENTER**. The **Setup** menu appears. Select **Guidance** and press **ENTER**.



2 Highlight **Assumed Speed** and press **ENTER**.



3 Two choices are displayed. Select one and press **ENTER**.

A) When set to **FWY** (Freeway), the system will display the **Set Assumed Freeway Speed** screen.

Tilt the joystick to the right or left to increase or decrease the assumed speed respectively. When setting has been finished, press **ENTER** to end the setting procedure.

B) When set to **SFC** (Surface Road), the system will display the **Set Assumed Surface Road Speed** screen.

Tilt the joystick to the right or left to increase or decrease the assumed speed respectively. When setting has been finished, press **ENTER** to end the setting procedure.



Note: Do not select the speed exceeding the speed limit.

4 Press the **MP/RG** button. The system returns to the Detailed Map display.

MP/RG



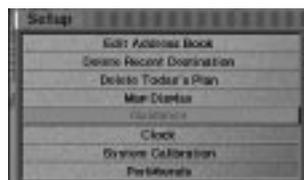
Setting audio interrupt

The Audio Interrupt function allows the navigation system to mute your radio while voice prompts are being played.

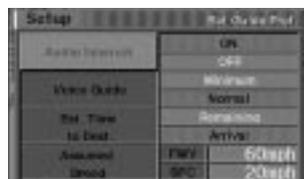
1 Press the **MENU** button to display the main menu bar. Select **Setup** and press **ENTER**. The **Setup** menu appears. Select **Guidance** and press **ENTER**.



2 Highlight **Audio Interrupt** and press **ENTER**.

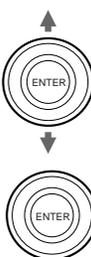


3 Two choices are displayed. Select one and press **ENTER**.
A) When turned **ON**, the system will mute the radio (if connected) while announcing voice instructions.
B) When turned **OFF**, the system doesn't mute the radio at all.



This function may not work with some radios. Consult your Alpine dealer for further information.

4 Press the **MP/RG** button. The system returns to the Detailed Map display.



MP/RG

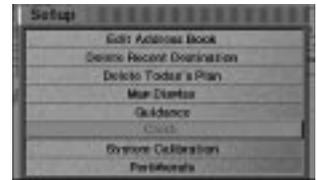
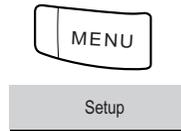


Setting the GPS clock

The GPS receiver used in this system is synchronized to the time data being transmitted by the GPS satellites. The satellite's clock is Greenwich Mean Time (GMT). This is the world-wide standard for time. This makes the system's clock very accurate, once the appropriate time zone has been set.

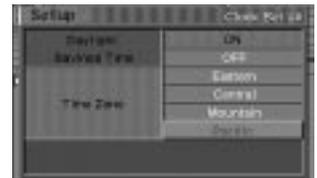
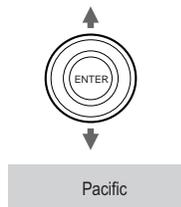
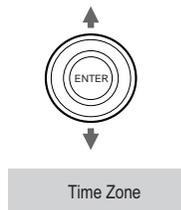
1 Press the **MENU** button to display the main menu bar. Select **Setup** from the main menu and press **ENTER**. The **Setup** menu appears.

Select **Clock** from the **Setup** menu and press **ENTER**.



2 From the **Clock Set Up** screen, select **Time Zone** and press **ENTER**. Choose the appropriate Time Zone for your location and press **ENTER** to store your selection (in this case, **Pacific**).

Note: If crossing Time Zones while driving, the clock must be reset manually for the new zone.

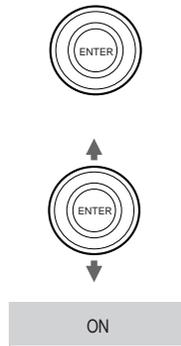


Setting the GPS clock (continued)

- 3** To change whether Daylight Savings is currently being observed or not, select **Daylight Savings Time** and press **ENTER**.



Select **ON** or **OFF** depending upon which is currently being observed. Press **ENTER** to save.



- 4** Press the **MP/RG** button. The system returns to the Detailed Map display.



Clear coefficient

The navigation system measures the distance with the vehicle's speed pulses. Since the vehicle's speed pulses depend on the vehicle manufacturer and the tire size, when you buy a new vehicle or replace your tires, the vehicle's speed pulses are compared with the distance measured with GPS waves and the distance coefficient is automatically recalibrated. To make the recalibration speed faster, clear the current coefficient. You can check on the screen whether or not vehicle's speed pulses are being counted.

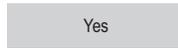
1 Press the **MENU** button to display the main menu bar. Select **Setup** and press **ENTER**. The **Setup** menu appears. Select **System Calibration** and press **ENTER**.



2 Highlight **Clear Coefficient** and press **ENTER**.



3 Confirmation screen asking you whether you wish to execute the clearance procedure or not. Select **"Yes"** and press **ENTER** if you wish to clear.



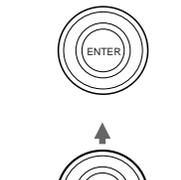
Direction adjustment

If the direction of the present vehicle position icon on the map is different from the actual direction of your vehicle, you can correct the direction of the icon with the following method.

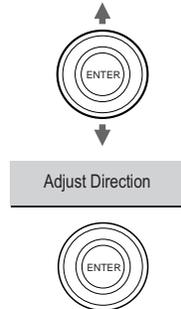
1 Press the **MENU** button to display the main menu bar. Select **Setup** and press **ENTER**. The **Setup** menu appears. Select **System Calibration** and press **ENTER**.



2 Highlight **Adjust Direction** and press **ENTER**.



3 The **direction correction** screen is displayed. Tilt the joystick toward the left and right to correct the direction.



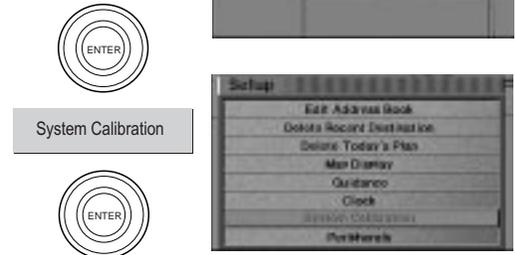
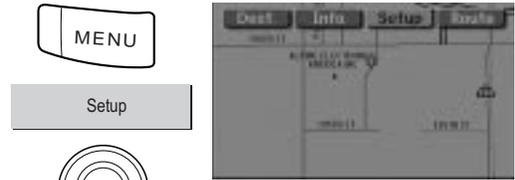
4 When the direction is corrected, press **ENTER**. The present vehicle position icon is displayed in the corrected direction.



Screen position adjustment

For some TV monitors that can be connected to the navigation system, the screen display will be out of place. Adjust the display position to match the TV monitor you connect to the system.

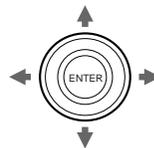
1 Press the **MENU** button to display the main menu bar. Select **Setup** and press **ENTER**. The Setup Menu appears. Select **System Calibration** and press **ENTER**.



3 The screen position adjustment screen is displayed.



4 Adjust the display position by tilting the joystick. The display screen moves the way you tilt the joystick.



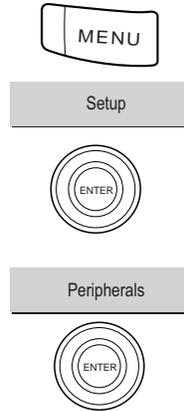
5 After adjusting, press **ENTER**. The screen is displayed at the adjusted position.



GUIDANCE

Connection check for peripherals

1 Press the **MENU** button to display the main menu bar. Select **Setup** and press **ENTER**. The **Setup** menu appears. Select **Peripherals** and press **ENTER**.



2 The **peripheral** screen appears in the display and it shows the connection state of the Navigation Interface, Mobile Mayday and cellular phone. If connections for each item are correctly and securely made, the display indicates "Yes" and if not correct or unconnected it indicates "No" at the right side of the item. (This example shows when no item is connected.)

3 When you have checked the connections, press **ENTER**. The system returns to the Setup Menu.



4 Press the **MP/RG** button. The system returns to the Detailed Map display.

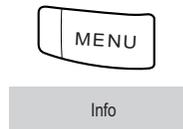


Navigation Simulation

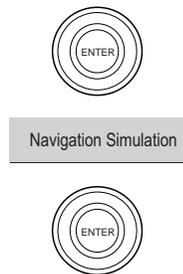
You can watch a demonstration of the navigation system's voice and screen guidance by using this function. The vehicle position icon will automatically move along the desired route showing a simulation of how the navigation system functions. If waypoints have been set, the simulation only shows a route to the first waypoint.

Use this function only while the car is parked.

1 Press the **MENU** button to display the main menu bar. Select **"Info"** and press **ENTER**.

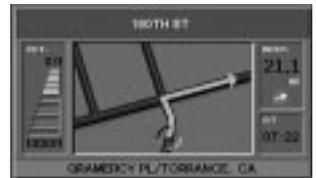


The **Info** menu screen appears. Select **Navigation Simulation** and press **ENTER**.



- The confirmation message only appears if a destination has already been set.
- During the drive simulation, the system accepts operation of the MP/RG, VOICE and N/H buttons in addition to the CANC button.

2 The drive simulation for the current route begins.



3 To end the drive simulation, press the **CANC** button. After the "Simulation ended." message, the navigation system automatically returns to the map screen.



Viewing GPS Information

The navigation system allows you to view dynamic location information received from GPS satellites. This feature is very useful for off-road users in establishing a starting point before trekking.

- 1 Press the **Menu** button to display the main menu bar. Select **Info.** and press **ENTER**. The **Info.** menu appears. Highlight the **GPS Status** setting.



- 2 The **GPS information** screen is displayed.



- Satellites from which you are receiving are displayed green and those from which you are not receiving are displayed red. Yellow indicates that your position is being calculated.
- The direction gives the heading of your vehicle.
- The speedometer display shows how fast your vehicle is travelling.
- SPEED PULSE blinks when the speedometer signal is coming in.



- 3 Press the **MP/RG** button. The system returns to the map screen.



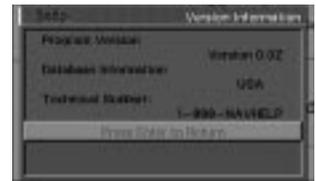
Viewing Software Information

You can view information about the DVD-ROM's version. Make note of this information and refer to it whenever you communicate with Alpine Tech Support or your Alpine authorized dealer.

1 Press the **MENU** button to display the main menu bar. Select **Info.** and press **ENTER**. The **Info.** menu screen appears. Highlight **Version Information** and press **ENTER**.



2 The DVD-ROM's information is displayed. Press **ENTER** on the remote control to return to the **Info.** menu.



3 Press the **MP/RG** button. The system returns to the map screen.

MP/RG



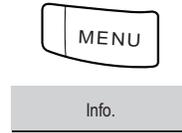
Using the Message Board

The Message Board function allows your navigation system to receive text messages from the OnGuard Response CenterSM when connected to an Alpine Mobile Mayday System. The navigation system will notify you of a pending message by displaying an icon on the screen and sounding a tone. Use the following procedure to access received messages.

1 Press the **MENU** button to display the main menu bar. Select **Info.** from the main menu and press **ENTER**. The **Info.** menu screen appears.

If an Alpine Mobile Mayday System is connected and you have messages waiting, the **Message** selection would be available. Select **Message Board** and press **ENTER** to view the list of messages available. Scroll down the list of messages to select the message to be read.

Note: For more details on the Message Board feature, see the manual that comes with the Mobile Mayday System.



Using the Detour function

If during a route you require the system to detour around an obstacle, you may use the **DETOUR** button to automatically recalculate a new route.

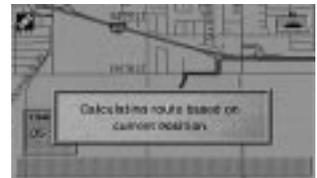
- 1** Press the **DETOUR** button in the Guidance mode. A window appears confirming the detour request.

DETOUR



- 2** The system recalculates the route around the upcoming maneuver.

Note: The system will detour around the next maneuver for about 5 miles ahead on free-ways/expressways and the next 1 mile ahead on surface streets.



Using the Plan function

While enroute to your first destination in Today's Plan, you may select to change the first destination.

1 Press the **PLAN** button while in the route guidance mode. The confirmation screen asking if you want to execute the clearance procedure or not. If you want to change the destination, select **Yes** and press **ENTER**.

PLAN



2 The system will start recalculating the travel order for Today's Plan. Once the system is finished recalculating, the **Confirm Destination** screen appears. Select **OK to Proceed** and press **ENTER** to proceed to the new destination. If you would like to route to a different 'first' destination, select **Today's Plan List** again, and select a new destination from the list.

OK to Proceed



REFERENCE

In case of difficulty

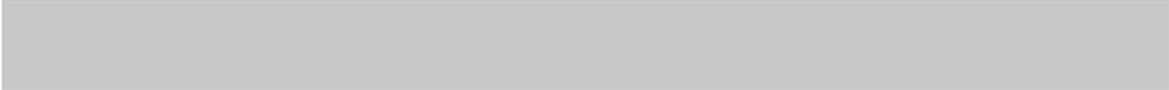
If you encounter a problem, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected or consult your authorized Alpine dealer.

Symptom	Cause	Solution
The vehicle's position is erroneous.	The vehicle's position changed after the ignition was switched off. <ul style="list-style-type: none">• Movement on a ferry boat• Rotation of a parking lot turntable• Movement by tow truck	Drive the vehicle in an area of good GPS reception to allow the unit to recalibrate itself.
The measurement error is too large.	Poor satellite reception	Move to a location where strong GPS reception is possible.
	Not enough satellites to give three dimensional positioning.	
Screen not displayed	The navigation monitor is turned off.	Press the DISP ON/OFF button on the remote control. Set Power switch of monitor to Standby.
An error message regarding the DVD-ROM is displayed	The DVD-ROM is not inserted properly.	Eject the DVD-ROM and reinsert properly.
	Disc dirty or damaged	Clean or replace disc
Inconsistent operation/ response of remote control	The remote control batteries are wearing out.	Replace the remote control batteries.
No operation	Moisture condensation	Allow enough time for the condensation to evaporate (about 1 hour).
	Ambient temperature over 122°F (50°C)	Lower the temperature in the vehicle below 122°F (50°C), by driving with the windows open or air conditioner on.
	Blown fuse	Replace with a fuse of the prescribed rating.

Error messages

Various messages are displayed on the screen during operation. In addition to the messages telling you the current status or providing guidance for the next maneuver, the following error messages may appear. If one of these error messages is displayed, carefully follow the instructions in the solution column.

Message	Cause	Solution
Please insert DVD-ROM/map data disk.	<ul style="list-style-type: none"> The disc has been removed. There was no disc in the system when the power was switched on. 	Insert the disc.
DVD ROM unreadable. Please check DVD ROM.	<ul style="list-style-type: none"> A disc that the system cannot read has been loaded. The disc is dirty or upside down. The disc cannot be read because of condensation. 	<p>Insert the map disc.</p> <p>Take out the disc, check if it was upside down, clean it if necessary, then re-insert it.</p> <p>Take out the disc, allow enough time for condensation to evaporate (about 1 hour), then re-insert the disc.</p>
DVD ROM being checked.	<ul style="list-style-type: none"> A disc was just inserted. Vibration or the like made it impossible to read the disc. 	When the disc check is complete, the following screen is displayed automatically.
Menu inoperable while driving. Please bring vehicle to stop at safe place and engage the parking brake before using, this function.	<ul style="list-style-type: none"> The MENU button was pressed while the vehicle was running. A menu selection operation was carried out while the vehicle was running. 	Move the vehicle to a safe location, stop, and engage the parking brake, then carry out this operation.
	<ul style="list-style-type: none"> An attempt was made to search the map from home with no home registered. 	Register your home, then search the map.
	<ul style="list-style-type: none"> An attempt was made to search the map from a memory point with no memory point registered. 	Register a memory point, then search the map.
	<ul style="list-style-type: none"> An attempt was made to search the map from the Departure point with no destination registered. All-route display, all-route search, or route deletion was attempted with no destination registered. An attempt was made to indicate a waypoint with no destination registered. 	<p>Specify the destination, then carry out the search.</p> <p>Specify the destination, then carry out the operation.</p> <p>Specify the destination, then specify the waypoint.</p>
	<ul style="list-style-type: none"> An attempt was made to register more than 99 points in memory. 	Erase unnecessary points, then register.



Message	Cause	Solution
Roads can't be found in area. Please near the main road.	• When the destination or waypoint was specified, there was no road in the area, so no route could be found.	Focus on a nearby major road, then specify the destination or waypoint again.
	• An attempt was made to erase a waypoint even though no waypoint is set.	This message simply announces that no waypoint is set. The message goes out soon.