StreetPilot™*GPS*

EXTREME
CHANNEL **12** RECEIVER
POWER!

GARMIN®

StreetPilot GPS

Owner's Manual

and Reference Guide

Map detail shown is with optional MetroGuide™ cartridge inserted

Thank you for choosing the GARMIN StreetPilot—quite possibly the best thing to happen to driving since the steering wheel! The StreetPilot represents GARMIN's continuing commitment to provide quality navigation information in a versatile and user-friendly design you'll enjoy for years. To get the most from your new GPS, please take the time to read through this owner's manual in order to understand the operating features of the StreetPilot. This manual is organized into two sections for your convenience:

Quick-Start introduces you to the basic features of the unit and provides a quick-start orientation to the StreetPilot

Reference provides details about the complete feature set of the StreetPilot by topic.

Before getting started with your GPS, check to see that your GARMIN StreetPilot package includes the following items. If you are missing any parts, please contact your GARMIN dealer immediately.

Standard Package:
- StreetPilot Unit with Detachable Antenna
- Six AA Batteries
- Owner's Manual
- Quick Start Guide
- Installation Instructions
- MetroGuide Documentation
- Dash Mount Kit

Power User Tip

From time to time in this manual, you will see 'Power User Tips' like this. These boxes include tips of particular interest to experienced GPS users. In most cases, beginners can skip right past these, and come back to them later if desired.

i

GPS

Caution

YIELD

The Global Positioning System (GPS) is operated by the government of the United States, which is solely responsible for its accuracy and maintenance. The system is subject to changes that could affect the accuracy and performance of all GPS equipment.

StreetPilot Unit

Warning

STOP

When using the StreetPilot in a vehicle, it is your responsibility to place and secure the unit so that it will not cause personal injury or property damage in the event of an accident, collision, or sudden turn or stop. Do not use this product in a way that violates the law. Do not mount the StreetPilot over airbag panels or in a place where the driver or passengers are likely to have an impact with it in an accident or collision. The mounting hardware provided by GARMIN is not warranted against collision damages or the consequences thereof.

Safe Driving

Safety Tips:

1. Do not operate the StreetPilot controls while you are driving a vehicle.

2. Get to know your StreetPilot and its features. Carefully read this manual and learn how to use your StreetPilot without taking your attention off the road.

3. Always have a passenger in the vehicle relay navigation instructions to the driver.

4. Plan your trip in Simulator Mode (see page 6) before you start driving. Do not attempt to enter data while driving.

Warning
Safe driving requires keeping your eyes on the road. IT IS UNSAFE FOR THE DRIVER OF A VEHICLE TO OPERATE THE STREET-PILOT CONTROLS WHILE DRIVING. If it is necessary to do so, pull over and stop at the side of the road to operate the StreetPilot. Failure to pay full attention to operating your vehicle and to road conditions could result in death or serious injury to you and others.

Map Data

Warning
GARMIN strives to provide the most economical, accurate, and up-to-date electronic maps available. However, roadways are continually being modified, so the data may not reflect the latest changes in your area. Generally, roadway data should be positionally accurate to approximately 50 feet in major metropolitan areas, and approximately 175 feet in other areas, though some local variability can be expected. Point of interest information (businesses, attractions, etc.) is extensive but not complete, and good position accuracy is not always available from our data providers. GARMIN does not make any warranty, express or implied, as to the completeness or accuracy of the data included in this product. The user is solely responsible for safe driving and the prudent use of this product.

BY USING THE STREETPILOT, YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THE FOL-LOWING SOFTWARE LICENSE AGREEMENT. PLEASE READ THIS AGREEMENT CAREFULLY.

GARMIN Corporation ("GARMIN") grants you a limited, non-exclusive license to use the software embedded in this device (the "Software") in binary executable form in the normal operation of this product. Title, ownership rights and intellectual property rights in and to the Software remain in GARMIN.

You acknowledge that the Software is the property of GARMIN and is protected under United States of America copyright laws and international copyright treaties. You further acknowledge that the structure, organization and code of the Software are valuable trade secrets of GARMIN and that the Software in source code form remains a valuable trade secret of GARMIN. You agree not to decompile, disassemble, modify, reverse assemble, reverse engi-neer or reduce to human readable form the Software or any part thereof or create any derivative works based on the Software.

You agree not to export or re-export the Software to any country in violation of the export control laws of the United States of America.

This device complies with Part 15 of the Federal Communications Commission (FCC) limits for Class B digital devices. This equipment generates, uses, and can radiate radio frequency (RF) energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

There is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to other equipment, which can be determined by turning the affected equipment off and on, the user is encouraged to try and correct the interference by relocating the equipment or connecting the equipment to a different circuit than the affected equipment.

Consult an authorized dealer or other qualified service technician for additional help if these remedies do not correct the problem. Operation is subject to the following conditions: (1) This device cannot cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Specifically, when operating inside an automobile, interference is possible from AM/FM radios, cassette or CD players, or mobile telephones, among other electronic devices. If you suspect the StreetPilot unit is experiencing harmful interference (as evidenced by poor satellite reception), try moving the StreetPilot to different places in the automobile to remedy the situation.

The StreetPilot does not contain any user-serviceable parts. Repairs should only be made by an authorized GARMIN service center. Unauthorized repairs or modifications could void your warranty and your authority to operate this device under Part 15 regulations.

GARMIN Corporation warrants this product to be free from defects in materials and workmanship for one year from the date of purchase. GARMIN will, at its sole option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor. The customer is, however, responsible for any transportation costs. This warranty does not cover failures due to abuse, misuse, accident, or unauthorized alteration or repairs. GARMIN assumes no responsibility for special, incidental, punitive, or consequential damages, or loss of use.

The warranties and remedies contained herein are exclusive and in lieu of all other warranties expressed or implied, including any liability arising under any warranty of merchantability or fitness for a particular purpose, statutory or otherwise. This warranty gives you specific legal rights, which may vary from state to state.

To obtain warranty service, call the GARMIN Customer Service department (913-397-8200) for a returned merchandise tracking number. The unit should be securely packaged with the tracking number clearly marked on the outside of the package and sent freight prepaid and insured to a GARMIN warranty service station. A copy of the original sales receipt is required as the proof of purchase for warranty repairs. GARMIN retains the exclusive right to repair or replace the unit or software at its sole discretion.

LCD Display
4-level Grayscale Display
with Backlighting
(Map Page shown).

Antenna
Rotate upright for best
satellite reception.

Compartment Door
Insert AA Batteries and
optional MetroGuide
Cartridges here.

Keypad
See page 2 for Key
descriptions.

StreetPilot GPS

Driving S on Hyde St near San Francisco

DALY
GENEVA JOHN DAL
280
SAN FRANCISCO BAY SAN FRAN
OAK
80 GEARY PAC
3ᵐ
metroguide

SE S SW
E W
NE N NW

Speed
22 ᵐ/ₕ

Current Time
5:25 ᴘ/ₘ

GARMIN

Battery/MetroGuide Cartridge Installation

The StreetPilot operates on six (6) AA batteries which are installed from the left end of the unit, when viewed from the front. These batteries provide up to 16 hours of continuous use. Alkaline, rechargeable NiCad, or lithium batteries may be used.

To install batteries and a MetroGuide cartridge:

1. Flip up the metal ring at the left end of the unit, and turn the ring ¼ turn counterclockwise.

2. Install the batteries (see picture at right). When replacing the StreetPilot batteries, observe the polarity markings molded in the rubber base of the unit and in the plastic inside the battery compartment door.

3. If you are using an optional MetroGuide cartridge with regional Street, Address, and Point of Interest data, plug the cartridge into the slot next to the battery compartment, with the label facing toward the front of the StreetPilot unit (see picture at right).

4. Close the battery compartment door.

5. Lock the door in the closed position by rotating the metal ring ¼ turn clockwise, and return the metal ring to its original position flush with the end of the unit.

Battery life varies due to a variety of factors, including temperature and back-lighting usage. You may find that lithium batteries provide longer life in colder conditions. An internal 10-year lithium battery will retain your data while you're changing AA batteries.
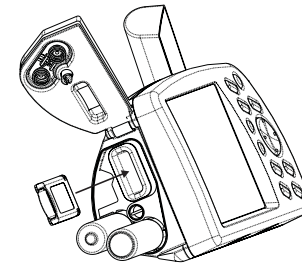
Note

The on-screen battery level indicator may be calibrated for alkaline or NiCad batteries, but will not be accurate when using lithium batteries.

QUICK-START

Battery/Cartridge Installation

Caution

Make sure the connector end of the MetroGuide is inserted into the cartridge slot, NOT the extractor handle end. Improper installation can result in internal damage to your StreetPilot unit.

Keypad

⊙ Turns the unit on and off. A momentary press while the power is on activates the backlight/contrast adjustment window. Press and hold to turn the StreetPilot off.

PAGE Changes between the main pages and returns display from an option window back to a main page.

QUIT Returns display to a previous page. When entering data, restores the previous value (cancels data entry).

ENTER Confirms a highlighted menu option. When entering data, allows you to initiate entry, and then to accept the selected value(s). Also marks the location of the panning arrow on the Map Page.

● (Rocker Keypad) Used to select (highlight) menu options and enter data. Also controls movement of cursor on the Map Page.

ZOOM OUT Adjusts the map scale to show a larger area with less detail.

ZOOM IN Adjusts the map scale to show a smaller area and more detail.

FIND Searches database for nearby Cities and Personal Waypoints. If an optional MetroGuide cartridge is installed, also searches for Points of Interest, Addresses, or Intersections. Allows listed items to be viewed on a map or selected as a destination.

OPTION Displays a menu of available options for the current page. Press twice to display System Setup options.

ROUTE Used to create a new route or edit an existing route. Also provides a selection to start or stop navigating an existing route.

MARK Captures your present location and saves it as a Personal Waypoint.

Turning the StreetPilot On and Off

To turn the StreetPilot on:

1. Press and hold the red ⊙ key until the power tone sounds.

2. The Welcome Page will be displayed for a few seconds while the unit conducts a self-test (see top right picture).

3. If there is an optional MetroGuide cartridge installed in the StreetPilot, a page showing the MetroGuide region and effective date is displayed on the screen (see bottom right picture). Press **ENTER** to acknowledge this page.

4. Once the self-test is complete, a warning page is displayed. Read the warning and press **ENTER** to acknowledge it.

Now that you know how to turn the StreetPilot on, it might be helpful to know just how to turn it off!

To turn the StreetPilot off:

1. Press and hold the red ⊙ key until the screen goes blank.

GARMIN
StreetPilot GPS

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Step 2

MetroGuide
Baltimore-Washington DC Metro APR 1998
© 1995-1998, GARMIN CORPORATION
© 1984-1998, ETAK, INC

Copyright 1998 GARMIN Corporation. All Rights Reserved.
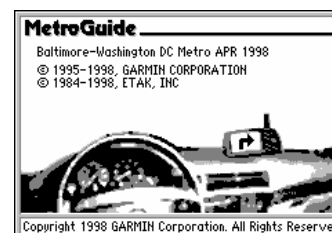
Step 3
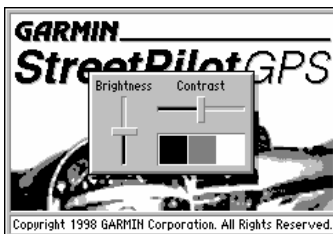
Adjusting Screen Brightness and Contrast

The StreetPilot screen lighting may be set to a variety of levels for different lighting conditions and personal preferences. When driving toward the sun, it may be helpful to increase the screen brightness for more comfortable viewing.

To adjust the screen brightness:

1. Press the ☼ key for a moment. A window appears on the screen with a Brightness control and a Contrast control (see picture at left).

2. Press the ▲ or ▼ areas of the ● keypad to adjust the screen brighter or dimmer as desired.

Contrast allows you to adjust the screen for optimum viewing in all lighting conditions. Moving the control to the left causes the screen to appear more faint, while moving the control to the right causes all areas of the screen (including pixels that are intended to be off) to appear darker. When operating the StreetPilot at extreme temperatures, you may find that minor adjustments are needed to obtain the best screen clarity.

To adjust the screen contrast:

1. Press the ☼ key for a moment.

2. Press the ◄ or ► areas of the ● keypad to adjust the screen contrast lighter or darker as desired.

Power User Tip

After adjusting the screen brightness or contrast, you may press the PAGE, QUIT, or ENTER key to remove the screen adjustment window more quickly.

4

Dashboard Mounting and External Power

Your StreetPilot is designed with portability in mind--allowing you to easily transport the unit from one vehicle to another or take it with you once you reach your destination. A dash mount is included in the StreetPilot package, providing a semi-permanent method of installing the unit at the best viewing location for the driver or passenger(s). The dash mount bracket may either be permanently or temporarily mounted using included adhesive materials. An installation instruction sheet is included with the dash mount, which you should refer to for specific instructions. General instructions are included here for your convenience.
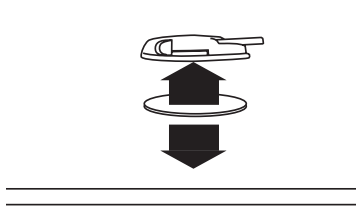
Carefully choose the placement of the base on the dash and install using either the temporary or permanent adhesive.
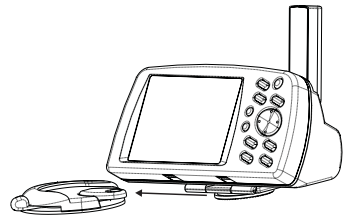
Slide the StreetPilot and mounting bracket into the base until you hear it snap into place.

Slide the locking lever to the right to lock the unit and prevent it from sliding off the base.
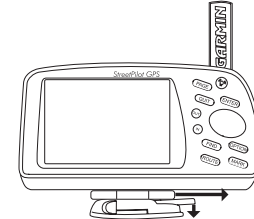
To remove the unit from the base, slide the lever to the left, depress the release tab, slide the unit to the right, and lift out of the base.
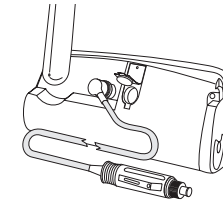
If you've purchased an optional cigarette lighter adapter, locate the connector on the rear of the StreetPilot unit (behind the rubber weather cap). The connector is "keyed" with a notch located between two pins. Mate the plug on the cigarette lighter adapter to this connector by aligning the notches and pushing the plug into the connector until fully seated (see picture at right). Take care when routing the adapter cable that it does not interfere with vehicle operation in any way.

System Setup

| General | Alarms | Time | Comm Port |

Simulator
Off

Night Mode
Off

Backlight Timeout
15 Seconds

Battery Type
Alkaline

Beeper
Key and Message

Distance Units
Miles

Step 1

System Setup

| General | Alarms | Time | Comm Port |

Simulator
Off

Off
On

Battery Type
Alkaline

Distance Units
Miles

Beeper
Key and Message
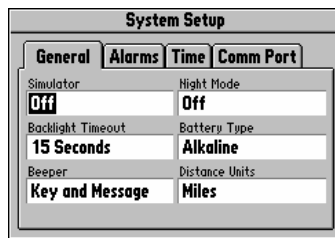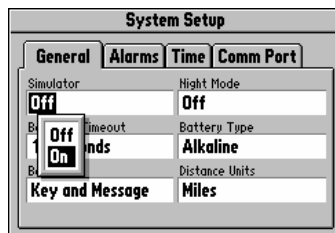
Step 2

Finding Your Location the First Time

The first time you use your new StreetPilot to navigate, take it outside or properly mount it on the dashboard of a vehicle in an open area that has a clear view of the sky. Either way, make sure the antenna is pointing up. The StreetPilot also has the option of using a Simulator Mode which does not require reception of GPS satellite signals (see below).

Your StreetPilot should be able to calculate your position within about five (5) minutes of being turned on with a clear view of the sky. If this is not the case, refer to Appendix B, "GPS Satellite Reception" on page 66.

Simulator Mode

You can start the Simulator Mode if you are indoors where the StreetPilot is unable to receive GPS satellites. It's helpful to do this for planning a trip or finding cities or MetroGuide addresses, intersections, or businesses.

To start the Simulator Mode:

1. Press the OPTION key twice. The StreetPilot displays the System Setup menu. The 'General' file tab should be displayed, and the cursor should be on the 'Simulator' field. If not, use the ⬤ keypad to select the 'Simulator' field (see top left picture).

2. Press ENTER and use the ⬤ keypad to select **On** (see bottom left picture).

3. Press ENTER again to start the Simulator Mode.

4. Press PAGE or QUIT to return to the page the StreetPilot was displaying before.

Main Page Sequence

The StreetPilot features two main pages, the Map Page and the Dashboard Page. Press **PAGE** or **QUIT** to switch back and forth between the two main pages.

If the StreetPilot is navigating to a destination, there is a third page called the Road Sign Page. The diagram below shows the relationship between the main pages when this is the case. You could say that the Road Sign Page is inserted 'between' the Map Page and the Dashboard Page while navigating to a destination.

Map Page

Dashboard Page

Road Sign Page
(If Navigating)
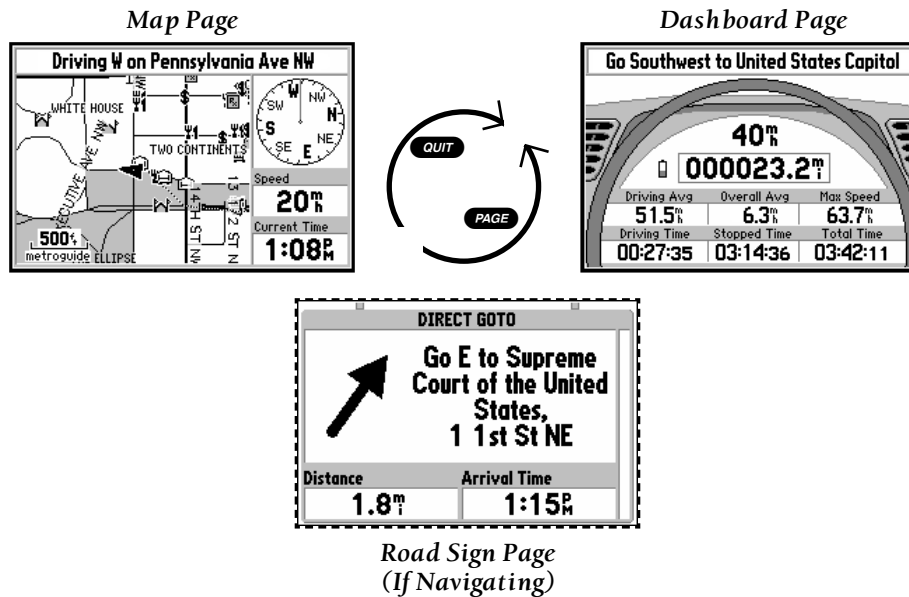
Map Zooming and Panning

Once the StreetPilot calculates your location, you may find it enjoyable just to view the Map Page and watch your movement along roads and streets. There will be plenty of time later to learn about the 'Find' and 'Route' functions, but let's keep it simple for now.

If you're not already looking at the Map Page, press the **PAGE** key until the map is shown on the screen. If the StreetPilot is still trying to determine your position, there is a flashing question mark (?) in the center of the map (see top left picture). Otherwise, the StreetPilot is ready to follow you as you drive.

Now, take a little bit of time to experiment with the ᶻᴼᴼᴹ **IN** and **OUT** keys. Notice that the further you zoom in, the more map features are shown on the map, to the point that every street in memory is displayed. On the other hand, if you zoom out to some of the larger ranges, it's possible to look at the better part of a continent on the screen at one time (see bottom left picture). In addition, you can use the rocker keypad to pan from your current location to other places on the map.
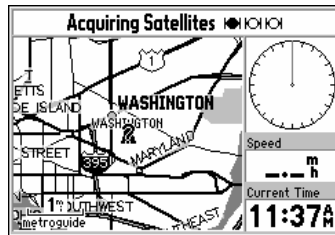
To change the map scale:

Press ᶻᴼᴼᴹ**IN** to see a smaller area with more detail.

Press ᶻᴼᴼᴹ**OUT** to see a larger area with less detail.

To pan the map:

1. Press the ● keypad anywhere and an arrow appears. Use the ● keypad to move the arrow around the map, even to areas not currently shown on the map.

2. When you are done panning, press **QUIT**. The panning arrow disappears.

Acquiring Satellites

WASHINGTON
MARYLAND
STREET

Speed
—·— m/h

Current Time
11:37A

Driving N on 2nd St NE near Washington

CHICAGO   NEW YORK
T LOUIS   WASHINGTON
NORFOLK
CHARLOTTE
ATLANTA
300m

NW N NE
W   E
SW S SE

Speed
28 m/h

Current Time
11:38A

The Trip Computer

Now, try taking a look at the Trip Computer by pressing **PAGE** until you see the steering wheel and dashboard (see top right picture). This page shows your speed, an odometer and a variety of other valuable information. See page 24 for more information.

The **OPTION** Key

The StreetPilot has an **OPTION** key which you may press at any time to see a menu of options for the page you are looking at. As an example, let's reset the Trip Computer, like you would at the beginning of a trip with the StreetPilot.

To reset the Trip Computer:

1. With the Trip Computer view of the Dashboard Page on the screen, press **OPTION** to display the Trip Computer options.

2. Use the ● keypad to highlight **Reset Trip Computer** (see bottom right picture) and press **ENTER**. All information on the Trip Computer is reset to zeros.

Note

At any time, you can press the **OPTION** key twice to see the System Setup, which includes settings that influence general StreetPilot operation.

Driving S on S Capitol St SE near Washing

30 m/h

⌷ 000008.2 m/i

Driving Avg	Overall Avg	Max Speed
33.1 m/h	30.2 m/h	50.0 m/h
Driving Time	Stopped Time	Total Time
00:14:47	00:01:25	00:16:12

The Trip Computer

Driving S on S Capitol St SE near Washing

Options
Show Satellite Status
Reset Trip Computer
Reset Max Speed Only

System Setup

| Driving Time | Stopped Time | Total Time |
| 00:14:55 | 00:01:25 | 00:16:20 |
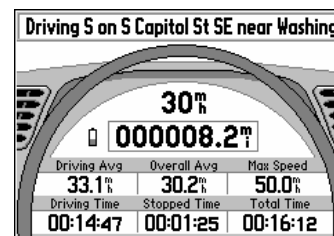
Step 2

Making Keypad Entries

Changing between pages and zooming the map in and out are fun for a while, but sooner or later you'll be ready for new challenges, and you will have the occasion to enter some information using the keypad.

There are street addresses, points of interest, and city names to find; Personal Waypoints and Routes to give meaningful names to; menu options to select. Most of these operations can be accomplished using the Rocker Keypad (●) and the **ENTER** key.

The "Current Time" and "Arrival Time" readouts on your StreetPilot unit may need to be adjusted for your local time zone. Let's use this for an example of a keypad entry.

Selecting from a list to set the time zone:

1. Press **OPTION** twice to select the System Setup Page.

2. If the cursor is not on one of the file tabs toward the top of the page, use the ▲ area of the ● keypad to highlight a file tab.

3. Use the ◀ or ▶ area of the ● keypad to select the 'Time' file tab.

4. Use the ▼ area of the ● keypad to highlight to the 'Time Zone' field (see top left picture).

5. Press **ENTER** to begin editing the time zone.

5. Use the ▲ or ▼ area of the ● keypad to select the appropriate time zone (**Pacific** in the bottom left picture).

6. Press **ENTER** to accept the entry. The 'Current Time' field should now display the correct time. In a few cases, you may need to compensate for Daylight Savings Time (see page 34).

System Setup

| General | Alarms | **Time** | Comm Port |

Time Format: **12 Hour**
Daylight Savings Time: **Auto**
Time Zone: **Central**
Current Time: **10:52:05ᴘ**
Current Date: **07-MAY-98**
Sunrise: **6:15ᴀ**
Sunset: **8:16ᴘ**

Step 4

System Setup

| General | Alarms | **Time** | Comm Port |

Eastern
Central
Mountain
Pacific
Alaska
Hawaii
Other

Daylight Savings Time: **Auto**
Current Time: **10:52:09ᴘ**
Sunrise: **6:15ᴀ**
Sunset: **8:16ᴘ**

Step 5

Next, let's "Mark" a Personal Waypoint at the StreetPilot's current location and give it a name to give you an idea how to make a character entry.

Making a character entry to name a Personal Waypoint:

1. Press **MARK** to display the 'Mark Personal Waypoint' Page.

2. Use the ● keypad to highlight the waypoint name field and press **ENTER**. The first digit of the waypoint name is high-lighted.

3. Press the ▲ and ▼ areas of the ● keypad to select the first character (see top right picture). Keep in mind that it may be fastest to use the ▼ key to go backwards through letters and numbers to get the one you're looking for.

4. Press the ▶ area of the keypad to move on to the next digit, or press the ◀ area of the keypad to move back to the left and change a digit which you have already entered.

5. Repeat steps 3 and 4 until your desired information is shown on the screen (see bottom right picture).

6. Press **ENTER** to accept the new name for the Personal Waypoint.

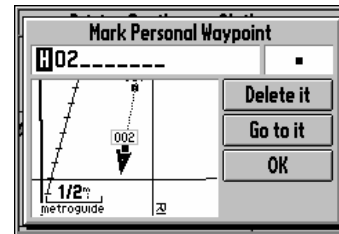7. Use the ● keypad to highlight **OK** and press **ENTER** to store the Personal Waypoint.

Power User Tip

If you wish to clear the entire entry, press the ◀ area of the ● keypad while the first character of the entry is highlighted.

Mark Personal Waypoint

H02_____

Delete it
Go to it
OK

1/2ⁿ
metroguide

Step 3

Mark Personal Waypoint

HOME_____

Delete it
Go to it
OK

1/2ⁿ
metroguide

Step 5

11
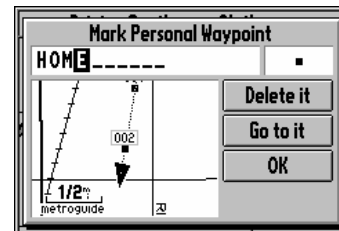
Find and Goto

Let's say you're driving along in Washington, D.C. looking at the Map Page. You're on your way to an appointment or meeting in Landover, Maryland and you'd like to know what direction to go, how far it is, and about how long it will take to drive there.

Note

If the 'Find Cities by Name' window comes up instead of 'Nearest Cities', press OPTION, use the ⬤ keypad to highlight **Find Nearest**, and press ENTER. To learn how to find cities and other locations by name, refer to page 39.

To find and go to a location:

1. Press FIND. A window appears, asking what kind of location to find.

2. Use the ⬤ keypad to select Cities (see first picture) and press ENTER. A list of up to 25 nearest cities is displayed on the screen, including the direction and approximate distance. Keep in mind that the specific cities shown will vary depending on your actual location.

3. Use the ⬤ keypad to scroll through the list and highlight **Landover** (see second picture).

4. Press ENTER. An informational page is displayed for Landover.

5. Use the ⬤ keypad to highlight **Go to it** (see third picture) and press ENTER.

6. The screen returns to the Map Page, which now tells you the direction, distance and time to go (see fourth picture).

| Step 2 | Step 3 | Step 5 | Step 6 |
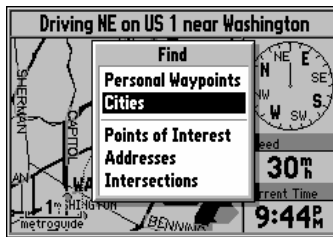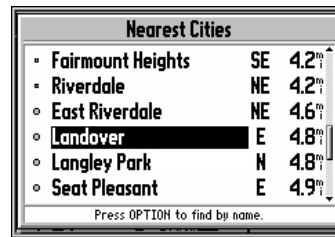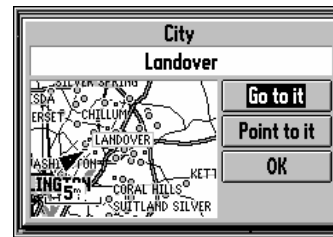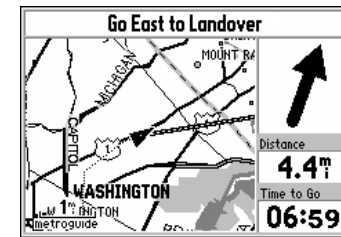
Step 2   *Step 3*   *Step 5*   *Step 6*

The Map Page

At the heart of the StreetPilot is the Map Page (see top right picture), which shows where you are, where you've been, and where you're going. The Map Page shows your current location on the background of highways, major thoroughfares, lakes, rivers, coastlines. If you're using an optional MetroGuide cartridge, most city streets for the MetroGuide coverage area will also be available for display. An on-screen cursor lets you pan around to different map areas to view roads and geographic objects. The StreetPilot also features **IN** and **OUT** keys for instant *ZOOM*ing. The map portion of the page displays your current location as a pointer icon. Nearby Personal Waypoints are shown with names and symbols. You may select which objects are shown on the Map Page with the 'Customize Map' option (see page 20).

At the middle of the Map Page is the vehicle pointer, which is in the shape of a triangle or an arrowhead. The vehicle pointer points in the direction you are moving. If the map is set to 'North Up' orientation, North is always at the top, and the vehicle pointer turns different directions as you drive. On the other hand, with 'Track Up' map orientation, the map automatically rotates as you make turns, keeping the current direction of travel at the top of the map. If the StreetPilot GPS has yet to calculate your location, there is a flashing question mark (?) over the vehicle pointer and the status line at the top of the page says 'Acquiring Satellites. The three satellite icons show the StreetPilot's progress in getting information from the GPS satellites (see bottom right picture). Typically, the more satellite symbols are filled in, the closer the StreetPilot is to calculating your location.

The StreetPilot's accuracy depends on many factors (see Appendix B). In many cases, an 'Accuracy Circle' is shown on the screen. The StreetPilot shows the vehicle pointer according to its position calculations, and shows a circle which shows the estimated accuracy at that moment. The StreetPilot has a very high certainty that your location is within the Accuracy Circle. A smaller circle indicates a more accurate GPS location.

The Map Page

REFERENCE
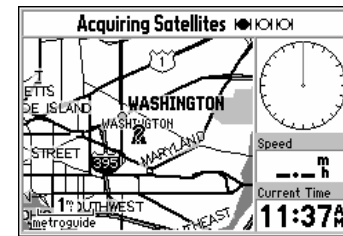
The Map Page

Map Page while the StreetPilot is finding your location

If you are driving along a road which is shown on the map, the vehicle pointer will often be shown moving right down the road. This occurs when your location and the direction you are driving indicate that you are probably on that street. While the StreetPilot does its best to show you on the correct street, there are times when the Map Page may momentarily show you on one street, and you are actually driving on another, due to the inherent accuracy limitations of GPS and the mapping information.

Zooming

By now, you are probably familiar with the ᶻᴼᴼᴹ🅘🅝 and ᶻᴼᴼᴹ🅞🅤🅣 keys, and how they change the map display. The map scale is shown at the lower left corner of the map display area. In the example at right, the map scale is 1/4 mile between the two tick marks. If the Map Page is displaying map information from a MetroGuide Data Card, the word 'metroguide' is written below the map scale, shown at right.

The distance between these two tick marks is 1/4 mile

🔺 **1/4ᵐ**
metroguide

It is possible to zoom the Map Page to a scale which is too small for the resolution of the stored map information. If this is the case, the word 'overzoom' is written below the map scale, shown at right..

200ᶠ
overzoom

When you are driving on city streets or roads that are within a MetroGuide coverage area, more detailed map scales (for example, 800 feet or less) may be more helpful, since they give you a good view of all streets, not just the major thoroughfares. On the other hand, you may find that map scales of 2 miles or greater are more practical for freeway driving, especially in rural areas.
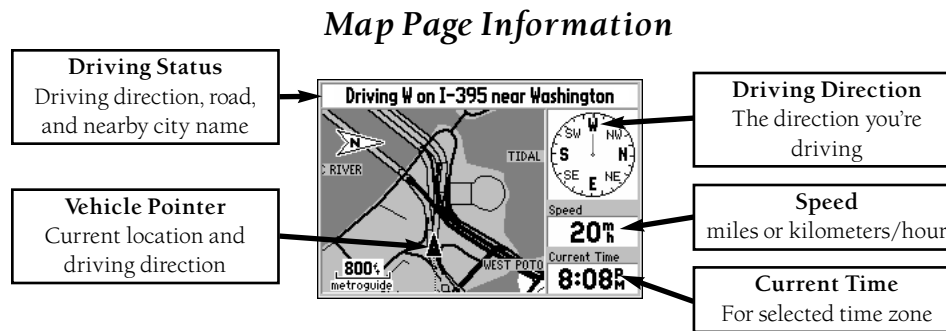
Driving Status

The top of the Map Page shows your Driving Status:

- The direction you are driving, one of eight possible directions--North (N), South (S), East (E), West (W), NE, SE, SW or NW.
- The name of the road or street you are driving on (if the StreetPilot has selected a road).
- Often, the name of a nearby city or town is displayed. You may not necessarily be within the limits of this city, and you may even be within the limits of another city. Cities are stored as points, and if a city name is displayed it is because it is the nearest city reference point to your location.

Navigation Info Window

The Navigation Info window is shown to the right of the map display area. If the StreetPilot is not navigating to a destination, the Navigation Info area shows a compass with your direction of travel at the top, your speed, and the current time of day.

Map Page Information

Driving Status Driving direction, road, and nearby city name	**Driving Direction** The direction you're driving
Vehicle Pointer Current location and driving direction	**Speed** miles or kilometers/hour
	Current Time For selected time zone

Driving W on I-395 near Washington
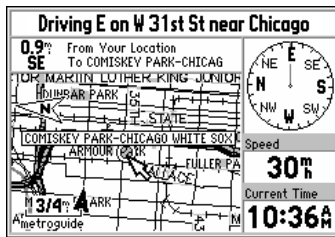RIVER   TIDAL
Speed
20ᵐₕ
Current Time
8:08ᴘ
800ⁱ
metroguide

REFERENCE

Driving Status, Navigation Info

Note

The driving direction shown on the StreetPilot may not exactly match a magnetic compass. This is because the StreetPilot uses "True North" reference instead of "Magnetic North".
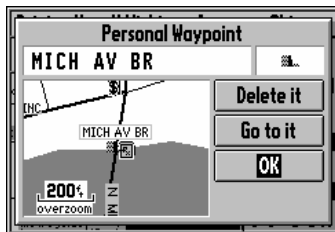
Step 2

Map Panning

Step 2

Panning

Another feature of the Map Page is the pan function, which allows you to point at and identify features on the map, and to move the map in order to view areas beyond the current map area.

To activate the pan function:

1. Press any area of the ● keypad. An arrow pointer appears.

2. Use the ● keypad to move the arrow pointer in any direction, including diagonally. The direction and distance from your current location to the panning arrow is shown at the top of the map (see top left picture).

3. When you are done panning, press **QUIT**. The panning arrow disappears.

The arrow serves as a target marker for the map. When the arrow is placed on a map feature or object, the name of that object is highlighted (if the name wasn't originally displayed it will appear when the arrow is placed on the object). This feature applies to Personal Waypoints, roads, cities, lakes, rivers, Points of Interest, etc.

When a displayed Personal Waypoint, City, or Point of Interest name is highlighted, you can review information about the point or even go to it, with the StreetPilot providing directional guidance to get there.

To select an on-screen location with the panning arrow:

1. Use the ● keypad to move the panning arrow to the desired Personal Waypoint, City, or Point of Interest (as was done in the top left picture).

2. Press **ENTER** to review information for the selected waypoint (see bottom left picture).

3. To go back to the map page, highlight **OK** and press **ENTER** (or simply press **QUIT**).

It's very possible you may see areas or features on the map that you might like to go to. For example, you can pan to a city, road, lake or river, and create a Personal Waypoint there. It's also possible to get directional guidance to it once it has been created.

To create a Personal Waypoint on the Map Page:

1. Use the ⬤ keypad to move the panning arrow to the desired area or object on the map. You may also want to use *ZOOM IN* to display more map objects or *ZOOM OUT* to look at a larger area. If the panning arrow is near a map object such as a city or road, the name of the map object is displayed with a box around it (see top right picture).

2. Press *ENTER* to create a Personal Waypoint where the panning arrow was located. If a map object had been highlighted, the StreetPilot suggests a waypoint name which reflects the name of the map object (see middle right picture).

3. You may highlight the Personal Waypoint name or symbol and press *ENTER* to modify either. Refer to page 37 in the "Marking Your Location as a Personal Waypoint" section for details.

4. To accept the new Personal Waypoint and go back to the map page, highlight **OK** and press *ENTER*. If you've changed your mind about creating the waypoint, highlight **Delete It** and press *ENTER*.
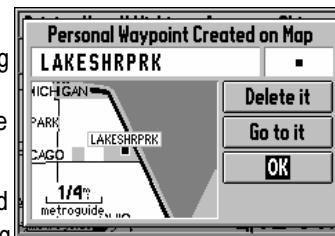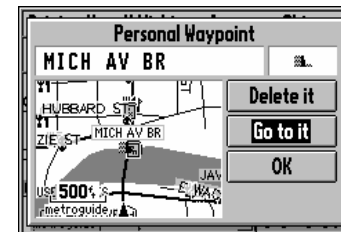
To go to a highlighted location:

1. Press *ENTER* to review information for the selected location.

2. Use the ⬤ keypad to highlight **Go to it** (see bottom right picture), and press *ENTER*.

Step 1

Step 2

REFERENCE

Map Page, Personal Waypoints

Step 2

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Step 2

To go to a highlighted Personal Waypoint:

1. Use steps 1 through 3 above to create a Personal Waypoint on the Map Page.

2. Use the ● keypad to highlight **Go to it** (see top left picture) ,and press **ENTER**.

To cancel the pan function and re-center the map on your location:

Press **QUIT**. The panning arrow disappears.

REFERENCE

Map Page Options

Map Page Options

To display the Map Page options:

Press **OPTION** while the Map Page is on the screen. The Map Page Options are shown (see bottom left picture), which are as follows:

The Map Page Options

Show Map Full Screen or Show Map and Nav Info

To enable a larger map display, select **Show Map Full Screen**, which removes the Driving Status and the other information that is usually displayed above and to the right of the map. If the map is currently displayed full screen then **Show Map and Nav Info** is presented as an option instead of **Show Map Full Screen**. Select this option to display the Driving Status and other information again.

Customize Map   Allows you to set a variety of options that select what is displayed on the Map Page, as well as how it is displayed. We'll get into the details in just a moment.

Measure Distance   Allows you to compute the distance between any two points you select on the Map Page, whereas regular map panning only allows you to see the distance and direction from your current location to a point on the map.

To measure the distance between two points:

1. From the Map Page, press (OPTION).

2. Highlight **Measure Distance** and press (ENTER). An on-screen pointer will appear on the map display at your current location.

3. Move the panning arrow to the desired reference point (the point you want to measure from) (see top right picture) and press (ENTER).

4. Move the panning arrow to the second point, which you want to measure to. The direction and distance from the reference point is shown at the top of the Map Page (see bottom right picture).

5. If you now wish to use this point (or another one) to measure a distance, repeat steps 3 and 4 as desired.

6. When you are done measuring distances on the Map Page, press (QUIT) to go back to the regular Map Page display.

Step 3

REFERENCE

Map Page Options
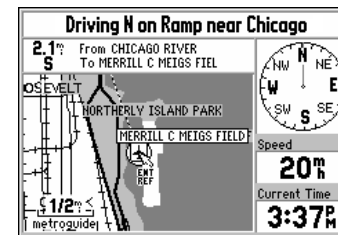
Step 4
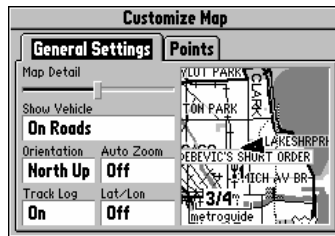
'Customize Map' Screen

Stop Navigation   If the StreetPilot is navigating to a destination, and you wish to discontinue navigation because you have reached that destination or no longer need guidance to get there, highlight this field and press **ENTER**.

Customizing the Map Page

When you select **Customize Map** from the Map Page options, a page is displayed with two file tabs, 'General Settings' and 'Points' (see picture at left).

'General Settings' File Tab

The General Settings File Tab includes a map window to the side. This is here so that you can monitor your vehicle's motion, and the other is so that you can see the effect of the changes you make immediately after you make them. You may even ²⁰⁰/**IN** and **OUT** on this map window.

Map Detail   A slider control that allows you to increase or decrease the amount of map information shown on a given map range. For example, you may wish to increase the detail level when driving in rural areas for more information. By the same token, you may wish to decrease the detail when driving in urban area for increased map clarity.

Show Vehicle   Lets you set whether the StreetPilot attempts to match up your vehicle with roads in its memory. May be set to **On Roads** or **At GPS Location** (see picture at right). If set for **On Roads**, the StreetPilot shows your map location on the nearest road, if it is pretty sure that you are on that road. If it's not sure which road you are on (or if you're even on a road), it will not show you on any road. If set for **At GPS Location**, the StreetPilot will show your vehicle at your GPS location as accurately as possible.
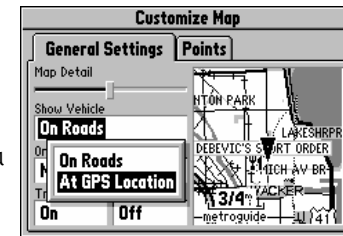
Orientation   Lets you set the orientation of map display. May be **North Up** or **Track Up**. The advantage of **North Up** is that it looks just like paper maps. The advantage of **Track Up** is that the picture on the screen is a representation of what you see out the windshield. In other words, streets and points near the top of the screen are in front of your vehicle.

Auto Zoom   When the Auto Zoom is **On** and the StreetPilot is navigating on a Direct Goto or a Route, the StreetPilot will automatically adjust the map zoom so that the next waypoint is on the map screen. Auto Zoom is set to **Off** at the factory.

Track Log   The StreetPilot records your location and stores it in internal memory. When Track Log is **On**, the recorded points are displayed on the Map Page. The StreetPilot stores the most recently recorded points . You can empty the memory by selecting **Clear** on this field. When you do this, the Track Log will be turned on if it was **Off** before.

'Show Vehicle' Option

Customizing the Map
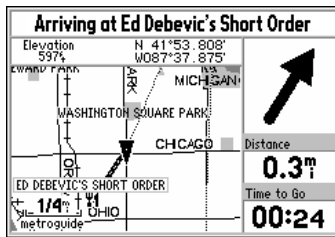
Map Page with Lat/Lon display

'Points' File Tab

Lat/Lon When **On**, the Map Page includes an extra window which displays your current location in terms of elevation above sea level, latitude and longitude (see top left picture).
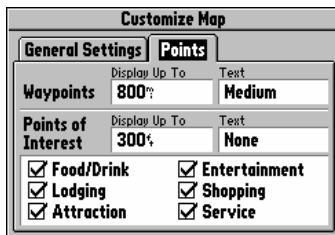
'Points' File Tab (*see bottom left picture*)

Waypoints Lets you set which map scales (if any) show Personal Waypoints.

Points of Interest Lets you set which map scales (if any) show Points of Interest, such as Food and Drink locations.

To modify the display of waypoints:

1. Use the ● keypad to highlight the 'Display Up To' field and press **ENTER**.

2. Use the ● keypad to select a map scale (see bottom right picture). The map scale you select causes waypoint symbols to be displayed on the Map Page only when that scale or a smaller one is selected. You may also select **OFF** if you don't wish to display waypoints on any map scale.

3. Press **ENTER** to accept your entry.
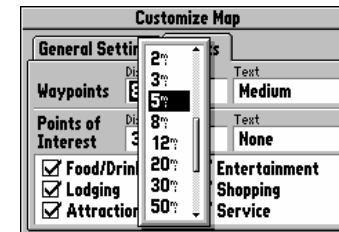
Step 2

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4. Press the ▸ key to highlight the 'Text' field and press **ENTER**.

5. Use the ● keypad to set the text size for the waypoint name (**Small**, **Medium** or **Large**). If you do not wish for the waypoint name to be displayed next to the waypoint symbol, select **None**. Naturally, if the Map Page is on a scale where waypoints are not displayed, no waypoint name will appear, either.

6. Press **ENTER** to accept your entry.

To modify the display of Points of Interest:

1. Use steps 1-6 above from the waypoint display modification. This sets the map scales on which Point of Interest symbols are displayed and the text size of the Point of Interest name.

2. If you would like to exclude some types of Points of Interest from display on the Map Page, use the ● keypad to highlight those types and press **ENTER** (see picture at right). A check mark indicates that type will be included in the display (if the map is on a scale setting where Points of Interest are displayed).

Customize Map

General Settings	Points

	Display Up To	Text
Waypoints	5ᵐ	Medium
Points of Interest	300ᶠ	None

☑ Food/Drink   ☑ Entertainment
☑ Lodging   ☐ Shopping
☑ Attraction   ☑ Service

Step 2

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Step 1. Trip Computer View

The Dashboard Page

To see the Dashboard Page, press the **PAGE** key until you see the page which resembles an automobile dashboard with a steering wheel. The Dashboard Page has two different views, the Trip Computer view and the Satellite Status view. The first time you look at this page, it will probably be showing the Trip Computer (see top left picture).

To show the Satellite Status View of the Dashboard Page:

1. While the StreetPilot is showing the Trip Computer View of the Dashboard Page (see top left picture), press **OPTION** to show the Dashboard Page options window.

2. Use the ▲ and ▼ keys to highlight **Show Satellite Status**.

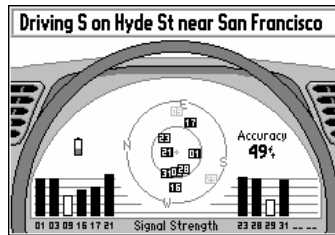3. Press **ENTER** to show the Satellite Status View (see bottom left picture).

Note

If the Satellite Status View of the Dashboard Page is on the screen, you may use a similar techique to change back to the Trip Computer View.

Step 2. Satellite Status View

If you think about the gauges and lamps normally found on an automobile dashboard, you can expect:

- A speedometer to tell you how fast you're driving.
- An odometer and trip odometer to tell you how far you've driven.
- A fuel gauge that tells you how long before you need to add fuel to the tank.
- A headlight lamp that tells you when your high-beams are in use.
- Engine instruments such as a tachometer and oil gauges and lamps that tell you how well your engine is running.

Although the StreetPilot doesn't know anything about your fuel tank, head-lights, or engine, its "dashboard" can display the battery level, if the screen back-light is on, and how well the GPS receiver "engine" is running.

The Dashboard Page shows the Driving Status across the top of the screen like the Map Page does (see page 15).

Trip Computer View

If you're making a trip, particularly a long one, you'll find the Trip Computer very valuable. Not only does it show your current speed, but many helpful statistics about your trip. Here are a couple of helpful hints that will make the Trip Computer all the more useful:

- Be sure to reset the Trip Computer before you start your trip (you'll learn how to do that in the next few pages).
- If you should make stops (such as food and drink, shopping or rest areas) it is best to leave the StreetPilot powered on and receiving satellites. This way, the Trip Computer will be able to keep track of all the time elapsed during your trip.

REFERENCE
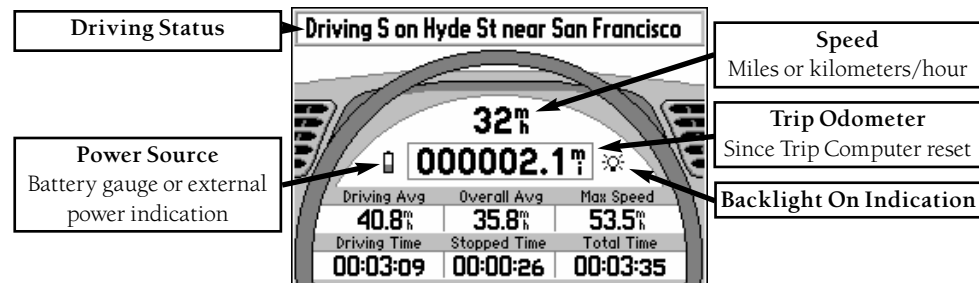
Trip Computer

Trip Computer Information

Driving Status

Power Source
Battery gauge or external power indication

Speed
Miles or kilometers/hour

Trip Odometer
Since Trip Computer reset

Backlight On Indication

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Trip Computer Information

Speed   (Shown at the top of the dashboard area) The current speed at which you are traveling.

Odometer   (Shown in a box, just below the speed) A running total of distance traveled, based upon the distance between second-by-second location readings, since the Trip Computer was last reset.

Power/Battery   (Shown just to the left of the odometer) If the StreetPilot is using its internal AA batteries, a battery symbol (▯) is shown. Notice the shaded area of the battery. The higher the shaded area extends, the more battery time remains. If the StreetPilot is operating from an external power source, a power plug symbol (⚡) is shown.

Screen Light   (Shown just to the right of the odometer) If the StreetPilot's screen light is on at any brightness level, a light bulb symbol (☼) is shown.

Driving Avg   Your average speed of travel during the time the vehicle has been in motion, since the Trip Computer was last reset.

Overall Avg   Your average speed of travel (including time stopped) during the time the StreetPilot has been tracking your location, since the Trip Computer was last reset.

Max Speed   The maximum speed recorded since the Trip Computer was last reset. Max Speed may also be reset individually, without resetting other Trip Computer information.

REFERENCE

Trip Computer

Driving Time	The length of time for which the vehicle has been in motion, since the Trip Computer was last reset.
Stopped Time	The length of time for which the vehicle has been stopped (stationary) during the time the StreetPilot has been tracking your location, since the Trip Computer was last reset.
Total Time	The total length of time for which the StreetPilot has been tracking your location, since the Trip Computer was last reset. This is always equal to Driving Time plus Stopped Time.

Power User Tip

When the StreetPilot is in the Simulator mode, the simulated motion may also be controlled from the Trip Computer View:
- Pressing the ▲ area of the ⬤ keypad increases the speed by 10 miles per hour (MPH).
- Pressing the ▼ area of the ⬤ keypad decreases the speed by 10 MPH.
- Pressing the ◀ area of the ⬤ keypad causes a turn to the left.
- Pressing the ▶ area of the ⬤ keypad causes a turn to the right.
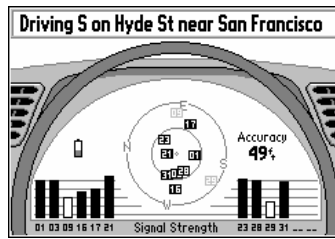
To reset the Trip Computer:

1. While the StreetPilot is showing the Trip Computer View of the Dashboard Page, press (OPTION) to show the Options window.

2. Use the ▲ and ▼ keys to highlight **Reset Trip Computer**.

3. Press (ENTER).

Note

You may also highlight **Reset Max Speed Only** if you wish (see picture at right.).

Resetting the Max Speed

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The Satellite Status View

Satellite Status

Satellite Status View

The Satellite Status view of the Dashboard Page shows you status information that helps you understand what the GPS receiver is doing at any given time, and it's a page that you'll want to occasionally refer back to as you use your StreetPilot. It features a sky view of available satellites, corresponding signal strength bar graphs, and your current accuracy. Just as in the Trip Computer view, the power source (external power indication or battery gauge) is shown, along with a light bulb icon to indicate that the screen backlight is on.

Satellites are indicated on the sky view and signal strength bar graphs by their respective number, from 01 through 32. The sky view shows the direction and elevation (angle above the horizon). The sky view rotates as you drive different directions. The top of the sky view should be showing the satellites that are in the sky in front of your vehicle. For example in the picture at left, satellite 17 is ahead of you and 45 degrees above the horizon. Satellite 21 is straight up in the sky. Satellite 16 is behind you and very low to the horizon.

The signal strength bar graphs depict the relative strengths of the signals from each satellite being received. The taller the bar, the stronger the signal. If the StreetPilot has received certain data from a satellite, its bar is displayed as a solid (filled in) bar. Otherwise, the bar is not filled in.

If you have moved the StreetPilot several hundred miles since the last time it navigated using satellite signals, you may find that the StreetPilot will calculate your location more quickly if you set the approximate initial location.
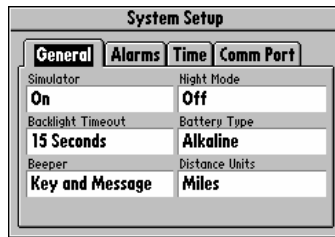
To set the initial location:

1. From the Satellite Status page, press **OPTION**.

2. Highlight **Set Initial Location** and press **ENTER**.

3. Use the ● keypad to point the panning arrow to your approximate area of the continent (see picture at right).

4. Press **ENTER** to select the location and begin searching for satellites.

Step 3

REFERENCE

Satellite Status

System Setup

*System Setup*

Step 3

System Setup

The System Setup Pages (see top left picture) can be accessed in two ways. All option menus include **System Setup** as a choice. In addition, at any time you may press the **OPTION** key <u>twice</u> in a row to display the System Setup. This is a group of pages to perform various System Setup functions, including configuring the display and backlighting, units of measure, and setting various alarms. Each available page is denoted by a 'file tab' at the top that identifies the function of that page.

To select a System Setup option:

1. With the System Setup on the screen, highlight the file tab for the desired function. The associated information and options are automatically displayed when the file tab is highlighted.

2. Once the desired file tab has been selected use the ⌄ key to highlight the desired option to view or modify.

3. Press **ENTER** to change to a different option. In most cases, a list of available options is shown (see bottom left picture).

4. Use the ● keypad to select the desired choice, then press **ENTER** again to accept the change.

5. Use the ⌃ key to return to the file tab area and select another file tab, if desired.

At some time, you might wish to change part of the System Setup back to the way it was the first time you used your StreetPilot fresh out of the box. This can be done by selecting the option called **Restore Factory Settings**.
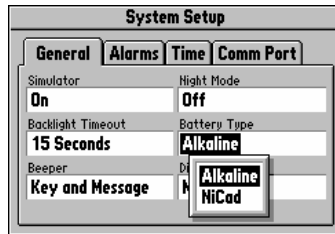
To restore the factory settings:

1. Use the ⬤ keypad to move the cursor to the file tab for which you want to restore the factory settings.

2. Press **OPTION**. A window is displayed with **Restore Factory Settings** highlighted (see picture at right).

3. Press **ENTER**. Only the settings for that file tab are modified.

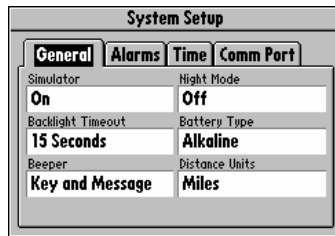4. If desired, repeat steps 1 through 3 for other file tabs.

Step 2

The file tab headings and System Setup functions are:

General: Simulator, Night Mode, Backlight Timeout, Battery Type, Beeper, and Distance Units.

Alarms: Approaching Waypoint Alarm, Speed Alarm.

Time: Formats for 12- or 24-hour Time, Automatic Daylight Savings Time, Time Zone, Display of Current Time and Date, Sunrise and Sunset Times.

Comm Port: Serial Data Communication Format.

The following pages describe, in more detail, the available setting for each System Setup file tab item.

REFERENCE

System Setup

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System Setup

General | Alarms | Time | Comm Port

Simulator	Night Mode
On	**Off**
Backlight Timeout	Battery Type
15 Seconds	**Alkaline**
Beeper	Distance Units
Key and Message	**Miles**

'General' File Tab

REFERENCE

'General' File Tab

System Setup

General | Alarms | Time | Comm Port

Simulator	Night Mode
On	On
Backlight Timeout	Battery Type
15 Seconds	Alkaline
Beeper	Distance Units
Key and Message	Miles

Night Mode

'General' File Tab (see top left picture)

Simulator — Lets you operate the StreetPilot indoors to plan trips and find locations when the unit is unable to receive GPS satellite signals. May be set to **Off** or **On**. The Simulator Mode is especially useful if you are indoors and wish to try out the StreetPilot features. For more information on the Simulator Mode, refer to page 6.

Night Mode — Lets you reverse the display colors for more comfortable viewing in dark ambient lighting conditions (see bottom left picture). May be set to **Off**, **On**, or **Auto**. **Auto** mode automatically uses the night mode between sunset and sunrise times for the current day of the year.

Backlight Timeout — Lets you keep the screen/keypad backlighting on continuously (**Always On**) when selected, or enable the automatic shutoff to preserve battery life. Automatic shutoff times from 15 seconds to 4 minutes (since last key press) are available. There is no automatic shutoff if the StreetPilot is operating from external power.

Battery Type — Used to designate the type of batteries currently being used to power your StreetPilot: **Alkaline** or **NiCad** (Nickel Cadmium). This setting enables more accurate readings from the battery gauge on the Dashboard Page (see page 24).

Beeper — Lets you determine when the internal beeper sounds: **Key and Message**, **Message Only**, or **None**. Some people prefer to hear a beep to confirm a button has successfully been pressed. For others, "silence is golden".
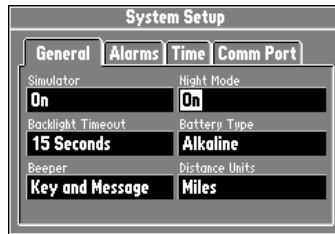
Distance Units   Lets you select the desired units of measure for distance in **Miles** or **Kilometers**. If you select **Miles**, then speed will be shown in Miles per Hour (abbreviated on the StreetPilot screen as 'mh') and elevation will be shown in Feet (ft). If you select **Kilometers**, then speed will be shown in Kilometers per Hour (kh) and elevation will be shown in meters (m).

'Alarms' File Tab (see top right picture)

Approaching Waypoint Alarm
Provides an alarm message once you're within a set time (choices range from 15 seconds to five minutes) from your turn or destination waypoint. As you approach the waypoint, a message occurs when your estimated arrival time is within the alarm time you entered.
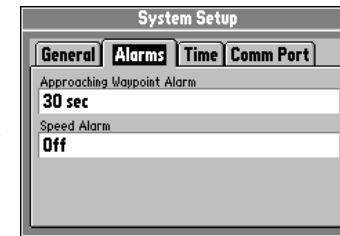
Speed Alarm   Provides an alarm message as a helpful reminder when your speed exceeds a preset limit.
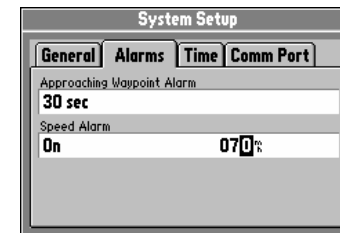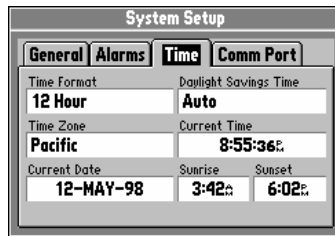
To enable/disable the speed alarm:

1. Highlight the 'Speed Alarm' field and press **ENTER**.

2. Select **On** or **Off** (as desired) and press **ENTER**.

3. If enabling the alarm, highlight the speed field and press **ENTER**. Enter the desired alarm speed using the ⬤ keypad (see bottom right picture) and press **ENTER**.

'Alarms' File Tab

REFERENCE

'Alarms' File Tab

Step 3

System Setup

General	Alarms	**Time**	Comm Port

Time Format	Daylight Savings Time
12 Hour	**Auto**

Time Zone	Current Time
Pacific	**8:55:36**ₚ

Current Date	Sunrise	Sunset
12-MAY-98	**3:42**ₐ	**6:02**ₚ

'Time' File Tab

REFERENCE

System Setup

General	Alarms	Time	Comm Port

Time Format	Daylight Savings Time
12 Hour	

Time Zone	UTC Offset	Current Time
Other	**−1[0]:00**	**7:56:42**ₚ

Current Date	Sunrise	Sunset
12-MAY-98	**2:42**ₐ	**5:02**ₚ

Step 4

34

'Time' File Tab (see top left picture)

Time Format Allows the current time to be displayed using a 12- or 24-hour clock.

Daylight Savings Time
Lets you determine whether Daylight Savings Time (DST) is used or not. **Auto** adjusts for DST based on what day of the year it is. **Yes** and **No** allow DST to manually be enabled or disabled (for geographic areas which are non-standard in the use of Daylight Savings Time).

Time Zone Used to determine the current local time. Time zones for the USA are included. **Other** is also available as an option.

To enter an 'Other' time zone:

1. After selecting **Other**, a 'UTC Offset' option is displayed. UTC is an abbreviation for Universal Coordinated Time (also referred to as "Greenwich" or "Zulu" time). Press the ▶ key to highlight this option.

2. Press ⒺⓃⓉⒺⓇ to modify the UTC Offset.

3. Select the desired offset direction (**+** or **-**). **+** indicates that the local time zone is ahead of UTC and **-** indicates that the local time zone is behind UTC.

4. Select the desired offset amount (in hours and minutes) using the ● keypad (see bottom left picture) and press ⒺⓃⓉⒺⓇ.
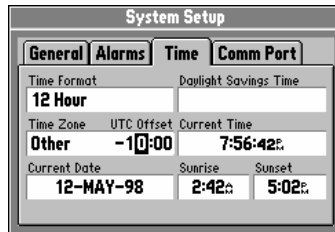
Current Time, Current Date
> Display the current time and date based on the settings made above and the information provided by the GPS satellites received.
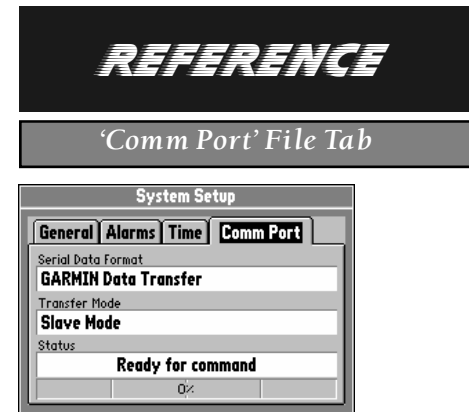
Sunrise, Sunset   Display the sunrise and sunset times for the current day of the year, based on your current location.

'Comm Port' File Tab (see picture at right)

Serial Data Format Lets you control the input/output format used when connecting your StreetPilot to external devices. Five format settings are available:

- GARMIN Data Transfer—the proprietary format used to exchange waypoint, route, and track log data with a PC or with another StreetPilot.
- NMEA Out—supports the input/output of standard NMEA 0183 version 2.0 data.
- None—provides no interfacing capabilities.
- DGPS RTCM/NMEA—allows Differential GPS (DGPS) input using a standard RTCM format and also provides NMEA 0183 version 2.0 output.
- DGPS RTCM In—allows a standard RTCM DGPS input and other baud rates (besides 4800), without any output capabilities.

See Appendix D for more information on Wiring/Interfaces.

REFERENCE

'Comm Port' File Tab

System Setup

| General | Alarms | Time | **Comm Port** |

Serial Data Format
GARMIN Data Transfer

Transfer Mode
Slave Mode

Status
Ready for command

0%

'Comm Port' File Tab

Step 3

REFERENCE

'Comm Port' File Tab

Step 4

To select a serial data format:

1. Highlight the 'Serial Data Format' field and press **ENTER**.

2. Select the desired setting and press **ENTER**.

3. If the **GARMIN** format is selected, highlight the 'Transfer Mode' field and press **ENTER**. Select the desired setting (see top left picture) and press **ENTER**. The 'Transfer Mode' field allows you to specify what information to request or send to a second StreetPilot. The **Host** setting lets you control all data transfer functions from the second StreetPilot or from a PC.

4. If an **RTCM** format is selected, additional fields are provided to control a GARMIN beacon receiver directly from your StreetPilot (see bottom left picture). You can enter the beacon frequency and bit rate on the StreetPilot and the information will be used to tune the beacon receiver. For more information, refer to the Owner's Manual for the GARMIN beacon receiver.
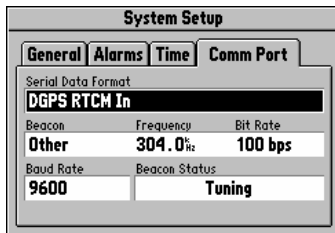
Marking Your Location as a Personal Waypoint

It is often very useful to mark a location, so that you can drive to it again later. These locations are called 'Personal Waypoints'. The StreetPilot can hold up to 100 Personal Waypoints.

To mark your location as a Personal Waypoint:

1. Press **MARK**. The 'Mark Personal Waypoint' page appears (see top right picture), with a default three-digit name for the new Personal Waypoint in the upper-left portion of the page. The StreetPilot remembers the location from the instant at which you pressed the **MARK** key, so you need not worry about moving around or losing satellite reception, your Personal Waypoint is safe.

To rename the Personal Paypoint:

1. Use the ● keypad to highlight the name and press **ENTER**.

2. Enter the new waypoint name using the ● keypad (see bottom right picture), and press **ENTER**.

Each waypoint may also be assigned a custom Personal Waypoint symbol for easy recognition on the Map Page.

Step 1

Marking Your Location

Step 2

37

Select Waypoint Symbol

Scenic Area

Step 2

Marking Your Location

Mark Personal Waypoint

GOLDENGATE

GOLDENGATE

Delete it

Go to it

OK

1ᵐ
metroguide   MARIN

Step 4
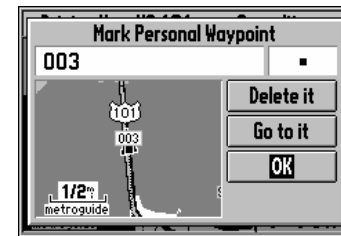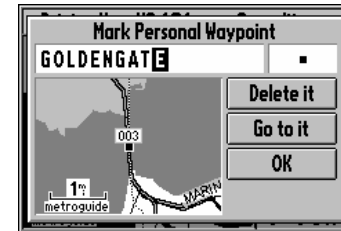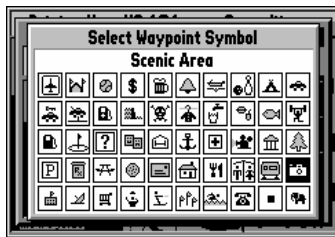
To change the Personal Waypoint symbol:

1. Highlight the Personal Waypoint symbol (immediately to the right of the waypoint name) and press **ENTER**.

2. Use the ● keypad to select the desired symbol. There are about 50 symbols to choose from (see top left picture). Notice that a written description of the symbol is shown at the top of the screen.

3. Press **ENTER** once you find the most appropriate symbol.

4. Move the cursor to the **OK** field (see bottom left picture), and press **ENTER**. Alternatively, you can move the cursor to the **Go to it** field and press **ENTER** to activate the new personal waypoint as a destination. For more information, refer to "Driving on a Direct Goto" on page 50.
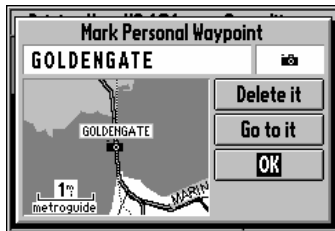
The 'Mark Personal Waypoint' Page will be replaced with the page you were looking at when you first pressed the **MARK** key. The new Personal Waypoint is now stored in the StreetPilot's memory.

Find Functions

You can search for Personal Waypoints or Cities that are included in the StreetPilot basemap. In addition, if you are using an optional MetroGuide cartridge, you can search for and find Points of Interest, Addresses, or Intersections.

Using the StreetPilot Find Function to Find a City

To illustrate the procedure for finding items with the StreetPilot, we'll use the example of finding a City.
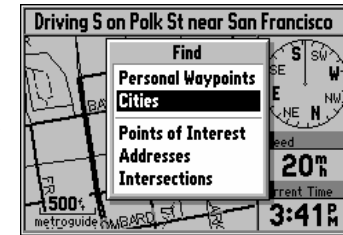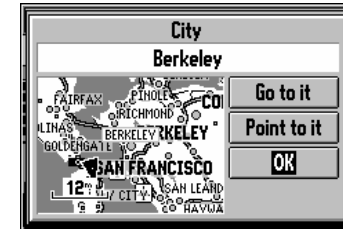
To find a City using the Nearest list:

1. Press **FIND**.

2. Use the ● keypad to highlight **Cities** (see top right picture) and press **ENTER**.

3. If the 'Cities by Name' list is on the screen, press **OPTION**, highlight **Find Nearest** and press **ENTER**. Cities are listed in order of their distance from your current location (or the panning arrow if you were panning on the Map Page when you pressed **FIND**). There will be up to 25 Cities in the list.

4. Use the ● keypad to select the desired City (see middle right picture). The specific cities shown vary depending on your location.

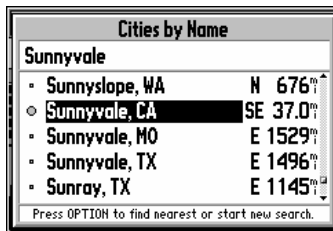5. Press **ENTER** to display the City information page(see bottom right picture).

REFERENCE

Find Functions

Step 4

Step 5

39

Cities by Name

P ALO ALTO_____

- ○ Palo Alto, CA
- ▪ Palo Alto, PA
- ▪ Palo Blanco, COAH
- ▪ Palo Blanco, NL
- ▪ Palo Grande, OAX

Search using keypad. Press ENTER to select from list.
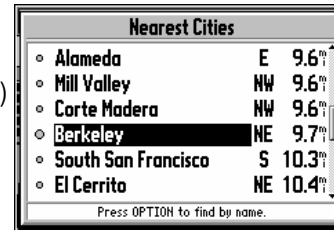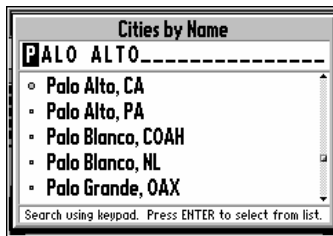
Step 1

REFERENCE

Finding a City

Cities by Name

Sunnyvale

- ▪ Sunnyslope, WA   N   676ᵐ
- ○ Sunnyvale, CA   SE 37.0ᵐ
- ▪ Sunnyvale, MO   E 1529ᵐ
- ▪ Sunnyvale, TX   E 1496ᵐ
- ▪ Sunray, TX   E 1145ᵐ

Press OPTION to find nearest or start new search.

Step 5

To find a City by Name:

1. If the 'Nearest Cities' list is on the screen, press **OPTION**, select **Find by Name** and press **ENTER**. Cities are listed in alphabetical order. If you have searched for a City before, the name of that City is shown when you first get to this page (see top left picture).

2. If necessary, use ▲ and ▼ areas of the ● keypad to select the first character of the desired City. We'll find Sunnyvale, California.

Cities by Name

SUN[N]Y ISLES_____

- ○ Sunny Isles, FL
- ▪ Sunny Side, GA
- ▪ Sunnybrae, NS
- ▪ Sunnybrook, AB
- ○ Sunnymead, CA

Search using keypad. Press ENTER to select from list.
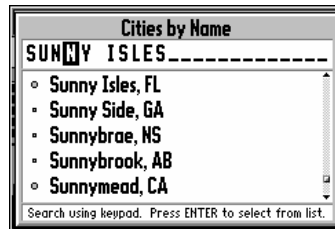
Step 4

3. Press the ▸ area of the ● keypad to move to the next character of the name, and repeat step 2 as necessary.

4. Once you see the City you are looking for on the screen, or can see that you are getting close to it (see middle left picture), press **ENTER** to move down to the alphabetical list.

5. Use the ● keypad to select the desired item (see bottom left picture) and press **ENTER** to display the City information page. If you decide the City you are looking for is in another area of the alphabetical list, press **OPTION**, select **Start New Search**, press **ENTER** and go back to step 2.

Note

Large cities (several hundred thousand or more people) are shown as large circles. Medium-population cities are shown as small circles. Small cities (a few thousand people or less) are shown as dots. The abbreviation for the State/Province is shown after the City name. Keep in mind that some City names are used in multiple States.

Power User Tip

Once you get to the scrolling alphabetical list, you can use the ◂ and ▸ areas of the ● keypad to quickly scan to entries that start with other letters or numbers.

To find a City using the Recently Used list:

1. With the 'Cities by Name' or 'Nearest Cities' list on the screen, press **OPTION**, select **View Recently Used List** and press **ENTER**. Cities are ordered by how recently you have selected them (see top right picture).

2. Use the ● keypad to select the desired City and press **ENTER** to display the City information page.
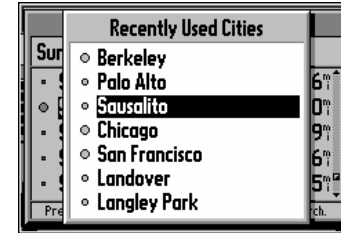
To view City information:

1. The City information page (see bottom right picture) shows the City name at the top of the page. A map window showing the area surrounding the City is shown below the name. You may use the *ZOOM* **IN** and **OUT** keys to change the scale of the map window.

2. If you would like the StreetPilot to go to the City, highlight **Go to it** and press **ENTER**. This initiates a Direct Goto. For more information, refer to "Driving on a Direct Goto" on page 50.

   If you would like to see the City on the Map Page, with the panning arrow on it, highlight **Point to it** and press **ENTER**.

   If you would like to save the location of the City as a Personal Waypoint, press **OPTION**, select **Save as Personal Waypoint**, and press **ENTER**. The StreetPilot will give it a name, which you can change later if desired.

   To go back to the page you were on previously, highlight **OK** and press **ENTER**.

Step 1
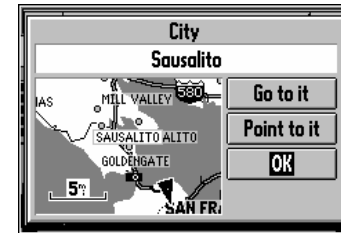
Finding a City

The City Information Page

The Personal Waypoint
Information Page

REFERENCE

Finding a Personal Waypoint

Step 2
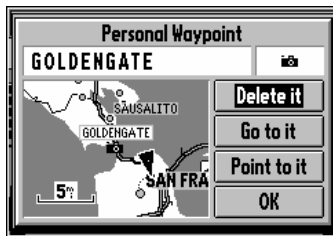
Finding a Personal Waypoint

Finding a Personal Waypoint is very similar to finding a City (see page 39). When you select Find Personal Waypoints, you may search for them using the 'Nearest', 'by Name' or 'Recently Used' list. If you have yet to create any Personal Waypoints, there may not be any entries in the 'Nearest' list. The Personal Waypoint information page includes a few options in addition to those on the City information page.

To view Personal Waypoint information:

1. The Personal Waypoint information page (see top left picture) shows the waypoint name, symbol, and a map window. You may change the Personal Waypoint name or symbol. For details on doing this, see "Marking Your Location as a Personal Waypoint" on page 37.

2. The usual **Go to it** and **Point to it** options are available. In addition, if the Personal Waypoint is no longer needed, highlight **Delete it** and press **ENTER**.

> ### Power User Tip
>
> If you would like to view the location of the Personal Waypoint in terms of its latitude and longitude (instead of on the map window), press **OPTION**, select **Location in Lat/Lon** and press **ENTER**. You may also move a Personal Waypoint to a specific latitude and longitude by highlighting the displayed lat/lon, pressing **ENTER**, and entering the desired coordinates.

If you would like to change the location of the Personal Waypoint, press **OPTION**, select **Move On The Map** and press **ENTER**. You can then use the ● keypad and *ZOOM IN* and *OUT* keys to point to the new location (see bottom left picture) and press **ENTER**.

To delete Personal Waypoints:

1. Use one of the previously-described methods of highlighting a Personal Waypoint name on the 'Nearest' or 'by Name' lists.

2. Press **OPTION**.

3. To delete the highlighted waypoint, select **Delete Waypoint** (see top right picture) and press **ENTER**.

   To delete all Personal Waypoints with the same symbol as the highlighted Personal Waypoint, select **Delete by Symbol** and press **ENTER**.

   To delete all Personal Waypoints in the StreetPilot memory, select **Delete All Waypoints** and press **ENTER**.

4. Before the StreetPilot actually deletes the Personal Waypoint(s) from its memory, it gives you a chance to back out. To go ahead and delete the waypoint, highlight **Yes** (see bottom right picture) and press **ENTER**.

Step 3

Deleting Personal Waypoints

Step 4

43
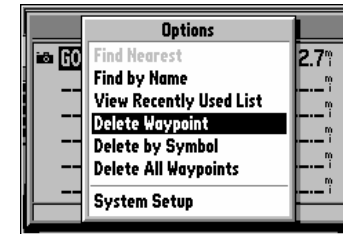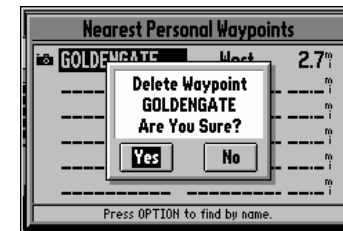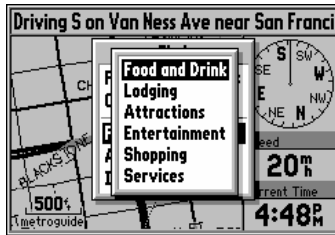
Selecting a Point of Interest Major Category

REFERENCE
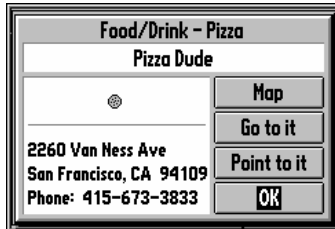
The Point of Interest Information Page

Finding a Point of Interest (within MetroGuide cartridge coverage area)

Finding a Point of Interest is also very similar to finding a City (see page 39). When you select Find Points of Interest, you will see a box with the six major categories. Use the ● keypad to select the major category (see top left picture) and press ENTER. The categories are as follows:

Food and Drink   Restaurants of various types; Fast Food; Bakeries

Lodging   Hotels; Motels; Resorts; Bed & Breakfasts; Campgrounds; RV Parks

Attractions   Amusement Parks; Museums; Libraries; Landmarks; Schools; Parks; Zoos; Auditoriums

Entertainment   Movie Theatres; Live Theatre; Bars & Nightclubs

Shopping   Shopping Centers; Department Stores; Grocery Stores; Convenience Stores; Pharmacies

Services   Air or Ground Transportation; Auto Sales, Rental, Repair, or Fuel; Post Offices; Banks

After you select a category, you may search for Points of Interest using the 'Nearest', 'by Name' or 'Recently Used' list. When you look at one of the lists, there is an icon associated with each entry which identifies the nature of the Point of Interest.

To view Point of Interest information:

1. The Point of Interest information page (see bottom left picture) shows the major category (Food/Drink), subcategory (Pizza), and name at the top of the page. A window below may show either a local map or the address, city, state, zip, and telephone number.

2. If you would like to change between the map display and the address/phone (or vice versa), use the ● keypad to highlight **Information** or **Map**, as the case may be, and press ENTER.

To select which specific categories are displayed:

1. With the 'Nearest' or 'by Name' list on the screen, press **OPTION**, highlight **Select Categories** (see top right picture) and press **ENTER**. The list of specific categories for that major category are shown as a list of check boxes (see middle right picture). When you first use your StreetPilot, all specific categories are checked, which means that they are included in your Find searches.

2. Use the ● keypad to highlight a specific category.

3. Pressing **ENTER** turns the check mark on or off, selecting or deselecting that specific category.

   If you would like to select (check) all specific categories, use the ● keypad to highlight **Select All** and press **ENTER**.

   If you would like to clear (uncheck) all specific categories, use the ● keypad to highlight **Clear All** and press **ENTER**.

4. If you would like to save the specific category selections you have just made, highlight **Save** (see bottom right picture) and press **ENTER**. Otherwise, the category changes you have made will only apply to the current search.

5. Highlight **OK** and press **ENTER** to return to the previous page.

Find Options for Points of Interest

REFERENCE

Finding a Point of Interest

Step 1

Step 4

45

Restoring Factory Settings for Food and Drink

Step 4

To restore factory settings for a major category:

With the 'Nearest' or 'by Name' list on the screen, press **OPTION**, highlight **Restore Factory Settings** (see top left picture) and press **ENTER**. This selects (checks) all specific categories within that major category (Food and Drink in this case), which means that they are all included in your Find searches. You can confirm this by pressing **OPTION**, choosing **Select Categories** and observing that all categories are selected.

Power User Tip

If you wish to return to the factory settings for all Find features and major categories, select the Find main menu, press **OPTION**, highlight **Restore All Find Settings** and press **ENTER**.

Finding an Address (within MetroGuide cartridge coverage area)

The procedure for finding Addresses and Intersections is a little different than Personal Waypoints, Cities, or Points of Interest. To find an address, you enter a Number and a Street. Optionally, you can also enter a City and Zip Code to narrow down the search a little bit. If you have searched for an address before, the information you used to search may be filled in on this page.

To find an Address:

1. Press **FIND**, highlight **Addresses**, and press **ENTER**.

2. If necessary, press **ENTER** to edit the Number.

3. Use ▲ and ▼ areas of the ● keypad to select the first digit of the desired Number.

4. Press the ▶ area of the ● keypad to move to the next digit of the Number, and repeat step 3 as necessary (see bottom left picture).

5. Press **ENTER** once the desired Number is shown.

6. Press the ▼ area of the ● keypad to highlight the Street and if necessary, press **ENTER** to edit it. The screen changes to display the 'Select Street Name' page.

7. Use ▲ and ▼ areas of the ● keypad to select the first letter or number of the desired Street (see top right picture).

8. Press the ▶ area of the ● keypad to move to the next digit of the Street, and repeat step 7 as necessary.

9. Once you see the Street you are looking for on the screen, or can see that you are getting close to it (see middle right picture), press **ENTER** to move down to the alphabetical list.

10. Use the ● keypad to select the desired Street (see bottom right picture) and press **ENTER**. If you decide the Street you are looking for is in another area of the alphabetical list, press **OPTION**, select 'Start New Search', press **ENTER** and go back to step 7.

Note

Streets are searched according to their "base names". For example, 'Hwy 10', 'I-10', 'SW 10th St', and 'Co Rd 10' would all be found by entering **10**.

Select Street Name

P————————————

P Ct
P Dr
P St NE
P St NW
P St SE

Search using keypad. Press ENTER to select from list.

Step 7

REFERENCE

Finding an Address

Select Street Name

PENNSY——————————

Pennsy Dr
E Pennsylvania Ave
Pennsylvania Ave
Pennsylvania Ave NW
Pennsylvania Ave SE

Search using keypad. Press ENTER to select from list.

Step 9

Select Street Name

Pennsylvania

Pennsy Dr
E Pennsylvania Ave
Pennsylvania Ave
Pennsylvania Ave NW
Pennsylvania Ave SE

Select street name and press ENTER.

Step 10

Select City Name

Washington

Washington, DC
Washington Grove, MD
West Friendship, MD
West Laurel, MD
West River, MD

Select city name and press ENTER.

Step 11

REFERENCE

Finding an Address

Select Address

1600 Pennsylvania Ave NW
Washington, DC 20000

1599 Pennsylvania Ave SE
Washington, DC 20003

1599 Pennsylvania Ave SE
Washington, DC 20003

Step 13

11. Press the ⬇ area of the ⬤ keypad to highlight the City and if necessary, press **ENTER** to edit it. If a City name was filled in, the StreetPilot gives you the choice to enter a new City, or to leave it blank. If you would like it to search all Cities, highlight **Leave it Blank** and press **ENTER**. Otherwise, highlight **Change City**, press **ENTER**, and use a similar procedure that you used to find the Street to find the correct City (see top left picture).

12. Press the ⬇ area of the ⬤ keypad to highlight the Zip and if necessary, press **ENTER** to edit it. If a Zip Code was filled in, the StreetPilot gives you the choice to enter a new Zip Code, or to leave it blank. If you would like it to search all Zip Codes, highlight **Leave it Blank** and press **ENTER**. Otherwise, select **Change Zip Code**, press **ENTER**, and use a similar procedure that you used to find the Street to find the correct Zip Code.

13. Press the ⬇ area of the ⬤ keypad to highlight **Search** and press **ENTER** to begin the search. If more than one matching Address is found, the results of the search are shown with the best matches at the top of the list (see bottom left picture).

14. Use the ⬤ keypad to select the desired Address and press **ENTER** to display the Address information page (see bottom right picture), which typically shows the Number, Street, City, State, and Zip, along with a map window.

Note

The location shown on the map for an address may differ from the actual location, particularly in areas where spacing of streets is irregular.
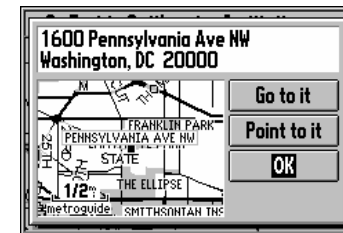
The Address Information Page

Finding an Intersection (within MetroGuide cartridge coverage area)

Finding an Intersection is similar to finding an Address (see page 46), with the exception that you enter two streets.

To find an Intersection:

1. Use the same procedure for finding an Address, except enter two Street names, instead of a Number and a Street.

2. Press the ⌄ area of the ● keypad to highlight **Search** (see top right picture) and press **ENTER** to begin the search. If more than one matching Intersection is found, the results of the search are shown with the best matches at the top of the list. If there are no matches, a **No Matching Intersections Found** message is shown.

3. Use the ● keypad to highlight the desired Intersection (see middle right picture) and press **ENTER** to display the Address information page (see bottom right picture), which typically shows the intersecting Streets, the City, State, and Zip, along with a local map.

> **Note**
>
> If one or both of the Streets in the Intersection search is a divided road, it is possible to get more than one matching Intersection entry that are at the same crossroads.

Step 2

Finding an Intersection
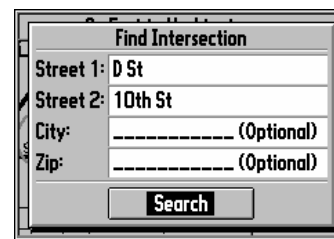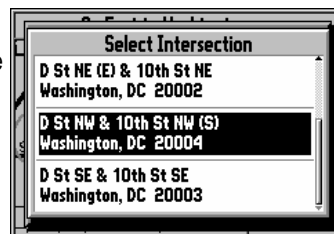
Step 3
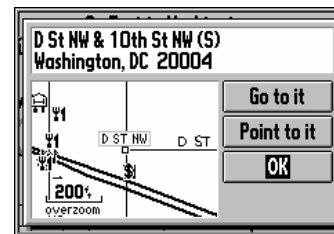
The Intersection Information Page

49

Driving on a Direct Goto

Once you use the ⬤FIND key to find someplace that you'd like to go, one of the things you can do is select **Go to it** to select it as a destination and the StreetPilot will help guide you to it.

The Map Page on a Direct Goto

One of the first things you'll notice is that the Map Page changes (see picture below):

- The Driving Status at the top of the page tells you what direction to go (N, S, etc.), as well as the name of the destination.
- A bold line connects your current location and your destination. Note that this line doesn't follow roads, it is simply the shortest distance between the two points.
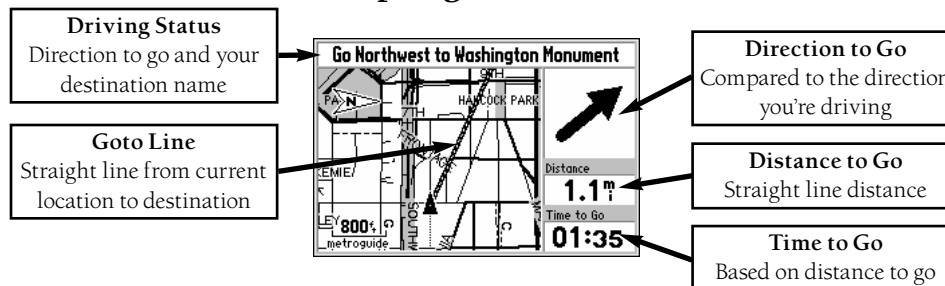
The Map Page on a Direct Goto

Driving Status
Direction to go and your destination name

Goto Line
Straight line from current location to destination

Go Northwest to Washington Monument

Distance
1.1 ᵐ

Time to Go
01:35

metroguide

Direction to Go
Compared to the direction you're driving

Distance to Go
Straight line distance

Time to Go
Based on distance to go

If the Map Page is set up to show Navigation Info (as opposed to the Full Screen Map), the following information is also shown:

- A *Direction to Go* pointer: the direction from your current location to the destination, based on the direction you're driving.
- The *Distance to Go*.
- The *Time to Go*.

The Road Sign Page on a Direct Goto

The other major difference when the StreetPilot is navigating on a Direct Goto is that a new page called the Road Sign Page (see top right picture) is displayed between the Map Page and the Dashboard Page.

- A *Direction to Go* pointer shows the direction from your current location to the destination, based on your direction of travel.
- The compass direction to go (N, S, etc.), as well as the name of the destination, and its address in some cases.
- The *Distance to Go.*
- The *Arrival Time* or *Time to Go.*

To change the time displayed on the Road Sign Page:

1. With the Road Sign Page displayed, press **OPTION**.

2. Use the ● keypad to select **Show Time to Go** (or **Show Arrival Time** as the case may be, see bottom right picture) and press **ENTER**.

Once you reach your destination, or you otherwise don't need guidance to it anymore, it is often desirable to stop navigation so the Map Page displays other information.

To stop navigation from the Road Sign Page:

1. With the Road Sign Page displayed, press **OPTION**.

2. Use the ● keypad to select **Stop Navigation** and press **ENTER**.
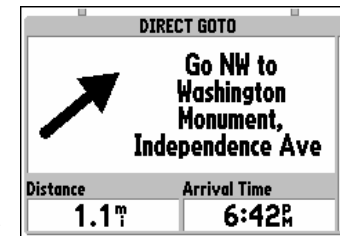
The Road Sign Page

Step 2

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Step 2

Routes

Step 3
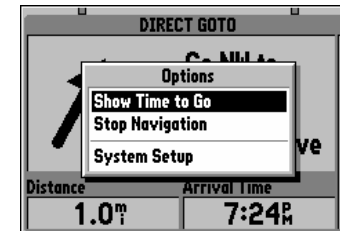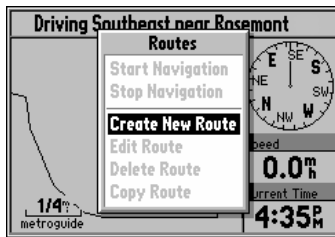
Routes

Although the StreetPilot does not automatically give turn-by-turn directions when a destination is chosen, you can select your starting point and your destination and then manually select a route by choosing the roads and streets you wish to travel. After you have "built a route" you will see turn-by-turn directions. To demonstrate a route, let's plan a trip from Chicago O'Hare International Airport to the Sears Tower in downtown Chicago.

To create a new route:

1. Press **ROUTE** to view the Route menu.

2. Highlight **Create New Route** (see top left picture) and press **ENTER**. The screen shows a full-screen map with a panning arrow.

3. Use the ⬤ keypad to point to the desired starting point for the route (see bottom left picture). It is often desirable to highlight a map object for the route starting and ending points, although it is not necessary. Remember you can use the ᶻᴼᴼᴹ **IN** and **OUT** keys to help you quickly pan around the map. Press **ENTER** to accept the starting point.

   OR

   Press **FIND**, and find a Personal Waypoint, City, Point of Interest, Address or Intersection to use as the starting point of the route (Find Functions are described on pages 39-49). Once the information page is displayed for the item you found, highlight **Add to route** and press **ENTER**.

4. Repeat step 3 to set the desired destination for the route (see top left picture). Notice that the total route distance is shown in the lower right corner of the screen (see top right picture).

5. If you wish to have intermediate points on the route, use this same procedure to select the first turn on the route and press **ENTER**. If there is a single road that connects the new point and the previous point, then your route will follow that road. Otherwise, your route will follow a straight line between the two points.

Finding the Destination

Step 4

6. If you wish to have more intermediate turns (points) on the route, repeat step 5 as necessary.
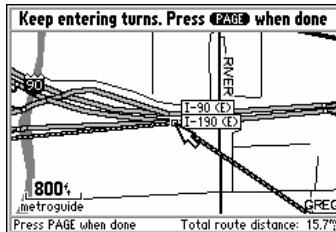
Point to road intersections

Zoom out if necessary
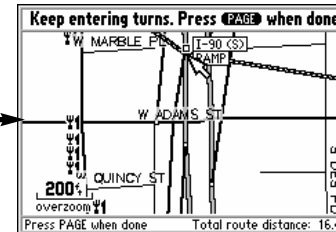
Zoom back in to point at ramp
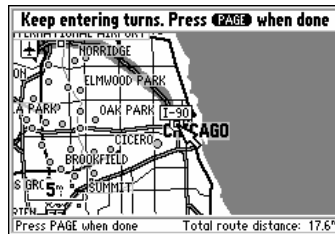
Note how route line follows I-90
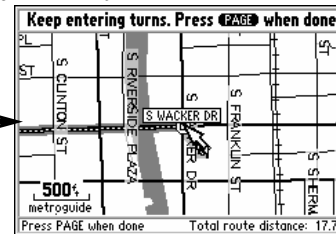
Entering last turn

REFERENCE

Creating a Route

Note

In order for the route to follow roads, it is necessary to select all intermediate turns, including on- and off-ramps. The advantages of the route follow the roads are that the distances and times are more accurate, and the turn guidance is more specific, among others.

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Step 8

Step 2

8. When you have added all the desired points to the route, press (PAGE). The 'New Route Created' box is shown with an assigned name for the new route (see top left picture).

9. If you wish to change the name of the route, highlight the name and press (ENTER) to edit it (see page 11 for a reminder of how to make a character entry).

   If you are ready to use the route for driving guidance right now, highlight **Start Navigation** and press (ENTER). For more information, see the "Navigating on a Route" section on page 58.

   If you wish to add, remove, or move points along the route, highlight **Edit** and press (ENTER).

   If you wish to approve the route as-is without using it for driving guidance, highlight **OK** and press (ENTER).

To edit an existing route:

1. Press (ROUTE) to view the Route menu.

2. Highlight **Edit Route** and press (ENTER). A box comes on the screen with a list of the routes stored in the StreetPilot's memory (see bottom left picture).

3. Select the desired route and press (ENTER). The screen shows a full-screen map with a panning arrow (see bottom right picture).

4. Use the ● keypad to move the panning arrow to highlight a route line (if you would like to insert a new turn) or a waypoint on the route (if you would like to move or remove that turn).

5. Press (ENTER).

> **Note**
>
> As you are creating and editing routes, the top of the screen prompts you for what to do next (see bottom right picture).

Step 3

54
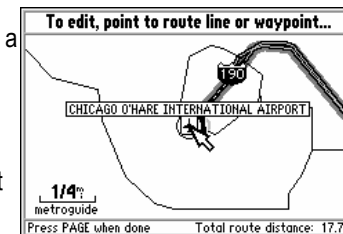
6. If you selected a route line to insert a new turn, use the ● keypad to "drag" the route line to the point where you would like to insert a new turn (see top right picture) and press **ENTER**.

    If you selected a turn to view or edit it (see middle right picture), you now have the choice to **Review**, **Remove**, or **Move** the waypoint, or move the panning arrow to the **Next** waypoint. Highlight your choice and press **ENTER**.

7. Repeat steps 4-6 as necessary to modify your route.

8. When you have completed your route editing, press **PAGE**. The 'Route Reviewed' box is shown with the route name (see bottom right picture).

9. If you wish to change the name of the route, highlight the name and press **ENTER** to edit it.

    If you are ready to use the route for driving guidance right now, highlight **Start Navigation** and press **ENTER**. For more information, see the "Navigating on a Route" section, page 58.

    If you wish to go back and further edit the route, highlight **Edit** and press **ENTER**.

   If you wish to approve the route as-is without using it for driving guidance, highlight **OK** and press **ENTER**.
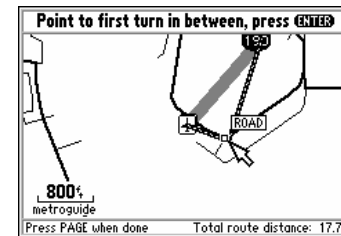
Step 6. Inserting a new turn

Step 6. Viewing or editing a turn

REFERENCE

Editing an Existing Route

Step 8

Power User Tip

If after changing the route name, you would like to return to the name the StreetPilot automatically assigned, edit the 'Name' field, press the ◀ area of the ● keypad to clear the name, and press **ENTER**.

Step 4

Step 4

To select an existing route for navigation:

1. Press **ROUTE** to view the Route menu.

2. Highlight **Start Navigation** and press **ENTER**. A box comes on the screen with a list of the routes stored in the StreetPilot's memory.

3. Select the desired route and press **ENTER**. A box comes on the screen asking you to 'Select Route Direction'. This feature allows you to create a route for a trip, then reverse the route later for a return trip, without creating two routes for this purpose.

4. Select the desired route direction (see top left picture) and press **ENTER**. You are now navigating using the selected route. For more information, see the "Navigating on a Route" section, page 58.

To stop route navigation:

1. Press **ROUTE** to view the Route menu.

2. Highlight **Stop Navigation** and press **ENTER**.

To delete a route:

1. Press **ROUTE** to view the Route menu.

2. Highlight **Delete Route** and press **ENTER**. A box comes on the screen with a list of the routes stored in the StreetPilot's memory.

3. Select the route you wish to delete and press **ENTER**. A box comes on the screen asking you to confirm the deletion, just in case.

4. Highlight **Yes** (see bottom left picture) and press **ENTER**.

Power User Tip

To delete all routes in memory, press **OPTION** while viewing the list of routes, and select **Delete All**.

There may be times when you would like to create a route that is similar to one that already exists. For example, there may be more than one way for you to get from "Point A" to "Point B". To do this, you would copy the route, and then move or add intermediate turns.

To copy a route:

1. Press **ROUTE** to view the Route menu.

2. Highlight **Copy Route** and press **ENTER**. A box comes on the screen with a list of the routes stored in the StreetPilot's memory (see top right picture).

3. Select the route you wish to copy and press **ENTER**. A box comes on the screen asking you to 'Select Route Direction'.

4. Select the desired route direction and press **ENTER**. The 'Route Copied' box is shown with an assigned name for the new route (basically the same name as for the route you copied from, with a number tacked on to the end of the name).

5. If you wish to change the name of the route, highlight the name and press **ENTER** to edit it.

   If you are ready to use the route for driving guidance right now, highlight **Start Navigation** and press **ENTER**. For more information, see the "Navigating on a Route" section, page TBD.

   If you wish to add, remove, or move points along the route, highlight **Edit** (see bottom right picture) and press **ENTER**.

   If you wish to approve the route as-is without using it for driving guidance, highlight **OK** and press **ENTER**.

Step 2

REFERENCE

Copying a Route
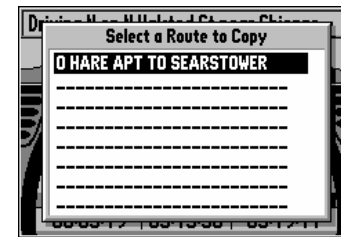
Step 5
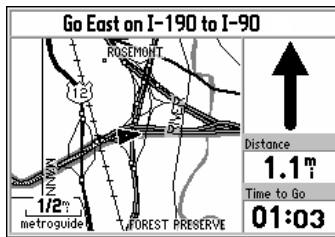
The Map Page on a route

Driving on a Route

Once you have created a route and have selected **Start Navigation**, the StreetPilot will give you progressive guidance. Just as on a Direct Goto, the Map Page and the Road Sign Page are the two primary sources of this guidance.

The Map Page on a Route

- The Driving Status at the top of the page tells you what direction to go (N, S, etc.), as well as the name of the road and the name of the next road or turn.
- A wide route line traces the path to your destination. This line may or may not follow roads, depending on how the route was built.

If the Map Page is set up to show Navigation Info (as opposed to the Full Screen Map), the following information is also shown:

The Map Page at a Route Turn

Turn Alert
Direction to turn and street name (press **ENTER** to acknowledge)

Route Line
May or may not follow roads

Next Turn Direction
Compared to the current leg of the route

Distance to Next Turn
Along route line

Time to Next Turn
Based on Distance to Go
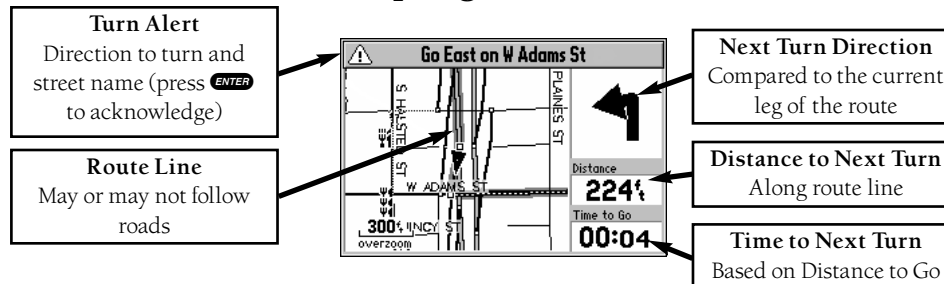
- A *Direction to Go* pointer: the direction from your current location to the next turn, based on the direction you're driving. When the "Approaching Waypoint Alarm" activates prior to reaching a turn, this area changes to show the direction of the turn.
- The *Distance to Go*.
- The *Time to Go*.

The Road Sign Page on a Route

When the StreetPilot is navigating on a Route, the Road Sign Page may be displayed, just as was described on page 50 for a Direct Goto. Remember that on a Direct Goto, the Road Sign Page shows the Direction to Go , directions to the destination, the Distance to Go and the Arrival Time/Time to Go.

Since a Route may include several turns, the Road Sign Page is capable of showing the same Direction, Distance, and Time to Go information to all of the turns along the route (see picture at right).

- A *Direction to Turn* pointer shows the direction to turn at the next waypoint, based on the current leg of the route. The last line of the Road Sign Page shows the final destinationwith a *Direction to Go* pointer.
- The compass direction to turn (N, S, etc.), as well as the road or location to turn at.
- The *Distance to Go.*
- The *Arrival Time* or *Time to Go.*

REFERENCE

Driving on a Route
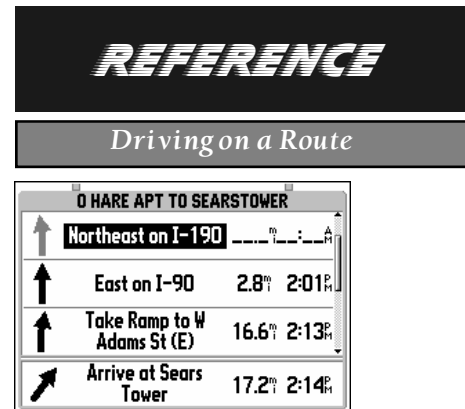
The Road Sign Page on a route
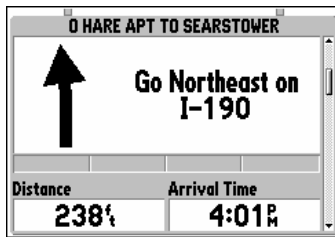
Step 2

To display only one route turn at time:

1. From the Road Sign Page, press **OPTION**.

2. Highlight **Show One Turn** and press **ENTER** (see top left picture).

Note

You can change back by using a similar procedure and selecting **Show More Turns**.

REFERENCE

Driving on a Route

As you complete turns on the route, they change from black to gray on the Road Sign Page (see picture at right).

Just as on a Direct Goto, you can press **OPTION** on the Road Sign Page to alternate between display of Time to Go and Arrival Time, or Stop Navigation (see page 51).
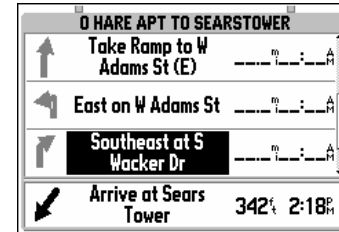
Turns change from black to gray after you pass them

Arriving at the Destination

When you arrive at the final destination of your route, an Approaching Waypoint Alert is activated, and you'll see the checkered flag (see bottom left picture) to let you know you've crossed the finish line!
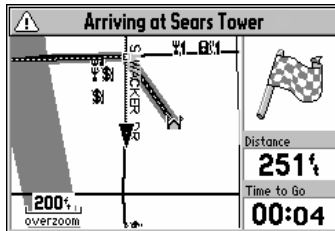
Arriving at the Final Destination

Appendix A--Frequently Asked Questions

Q: Can I use my StreetPilot indoors?

A: Although the StreetPilot cannot receive actual satellite signals indoors, it is possible to put the unit in "Simulator Mode" (see page 6). In fact, we recommend you use the unit in simulator mode to learn it and practice looking up locations and points of interest.

Q: Do I need to subscribe to a service to use my StreetPilot?

A: No. The GPS satellites are owned by the United States Department of Defense (DoD) and have been funded by U.S. taxpayers' dollars. Reception of GPS satellite signals is free to everyone.

Q: Does my StreetPilot work anywhere in the world and in any weather?

A: Yes.

Q: How accurate is a GARMIN GPS?

A: The StreetPilot is accurate to within 100 meters under the DoD-imposed Selective Availability (S/A). Without S/A, the StreetPilot is accurate to within 15 meters. Using differential techniques, the StreetPilot can be as accurate as 1-5 meters.

Q: **Do I need an additional antenna?**

A: In most cases, an additional remote antenna is not necessary due to our powerful 12 parallel channel receiver. However, the StreetPilot needs a direct view of the sky, so for applications in which the view of the sky is obstructed from the StreetPilot an optional remote antenna may be necessary (see Appendix B).

Q: **Do I need to remove the batteries from my StreetPilot when I connect the unit to the cigarette lighter (using an optional adapter)?**

A: No. When the unit detects that external power is available, the unit will switch to the external source and not use the batteries in the unit. It is recommended that the batteries remain in the unit in the event that you have a loss of external power. If the batteries remain in the unit, when external power is lost the unit will automatically switch to batteries and continue to function normally.

Q: **Will I lose my data if my batteries go dead?**

A: No. The StreetPilot has a lithium backup battery that lasts about 10 years.

Q: **Will my StreetPilot give me turn-by-turn directions?**

A: The StreetPilot does not automatically give turn-by-turn directions when a destination is chosen. It tells you the direction and distance and draws a straight line to your destination. In addition, by using the **ROUTE** button, you can select your starting point and your destination and then manually select a route by choosing the streets you wish to travel (see page 52). After you have "built a route" you will see turn-by-turn directions.

Q: What is a MetroGuide cartridge?

A: A MetroGuide cartridge is an accessory for the StreetPilot that can be purchased separately. A MetroGuide covers a regional area and when inserted into the StreetPilot, the map is enhanced with residential streets, addresses and points of interest such as restaurants, hotels, gas stations, banks, shopping and more.

Q: Do I need a MetroGuide cartridge to use my StreetPilot?

A: No. The StreetPilot has a built-in map of the United States, Mexico and Canada. The map includes interstate highways, other major highways and thoroughfares, state and country boundaries, cities, lakes and rivers.

Q: Is there a MetroGuide cartridge for every city?

A: By sending in the availability postcard to GARMIN, you will receive an information packet showing map coverage for each available cartridge.

Q: Why can't I find a specific address I'm looking for?

A: The StreetPilot uses GARMIN mapping data as well as data from external sources giving addresses and points of interest, such as food and drink, lodging, other businesses, and landmarks. However, not all addresses and points of interest are in the StreetPilot.

APPENDIX A

Frequently Asked Questions

Q: Can I order directly from GARMIN?

A: GARMIN sells units only through GARMIN dealers. You can find the dealer nearest to you with our dealer locator on our internet website www.garmin.com. We sell accessories direct at the suggested list price. Accessories can be ordered using a credit card by calling 1-800-800-1020 toll free.

APPENDIX A

Frequently Asked Questions

Appendix B--GPS Satellite Reception

The Global Positioning System (GPS) is a system of 24 satellites that circle the Earth twice a day in a very precise orbit and transmit information to Earth. The StreetPilot must continuously receive signals from at least three of these satellites to calculate your location and track your movement. At times, additional satellites may be needed to determine your location.

Your GPS receiver can only receive signals from satellites which are above the horizon, so it needs to know what satellites to look for at any given time. In order to determine which satellites are above the horizon, your GPS needs to either be told its general location ("initialized") or given the opportunity to find itself. Once you initialize the unit to a location, it will typically compute a position within a few minutes.

Initialization is only necessary under the following conditions:
- The first time you use your StreetPilot (new from the factory).
- After the StreetPilot has been moved more than 500 miles (with the power off) since the last time you used it.
- If the StreetPilot's memory has been cleared and all internally stored data has been lost.

Because the StreetPilot relies on satellite signals to provide you with navigation guidance, the StreetPilot needs to have an unobstructed, clear view of the sky for best performance. In a nutshell, the GPS receiver's view of the sky will generally determine how fast your location is determined—or if it is determined at all. GPS signals are relatively weak and do not travel through rocks, buildings, people, metal, or heavy tree cover, so remember to keep a clear view of the sky at all times for best performance.

Once the StreetPilot has calculated your location, you'll usually have anywhere from five to 12 satellites in view. The receiver will then continuously select the best satellites in view to update your location.

APPENDIX B

GPS Satellite Reception

Step 1

APPENDIX B

GPS Satellite Reception

If the StreetPilot is unable to calculate your location after a few minutes:

1. A 'Poor Satellite Reception' box appears on the screen (see top left picture).

2. If you are indoors, or would otherwise like to simulate GPS location and motion, use the ● keypad to highlight **Start Simulator** and press **ENTER**. The Simulator Mode starts, and the StreetPilot returns to the page it was showing beforehand.

   If the StreetPilot is brand new, or if the StreetPilot unit has been moved hundreds of miles since the last time it tracked a GPS location, use the ● keypad to highlight **Set New Location** and press **ENTER**.

   If neither of the above applies, and you would like the StreetPilot to continue looking for GPS satellites, use the ● keypad to highlight **Continue Acquiring** and press **ENTER**. The StreetPilot returns to the page is was showing beforehand.

3. If you chose **Set New Location**, a new box appears asking what method you would like to use for aiding the StreetPilot in determining your location.

4. If you know the general area of the continent where you are located, you can speed up the calculation of your location by pointing to that area on a map.
   Use the ● keypad to highlight **Use Map** (see bottom right picture) and press **ENTER**.

   Otherwise, use the ● keypad to select **AutoLocate** and press **ENTER**. The StreetPilot will determine where you are located. This process is fully automatic and under normal circumstances will calculate your position in 3-5 minutes.
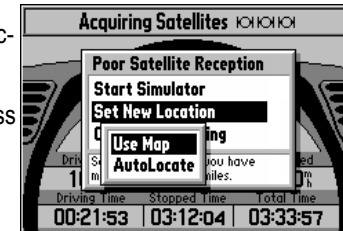
Step 4

5. If you chose **Use Map**, a continental map is displayed with an arrow pointer on it (see top right picture). Use the ● keypad to move the the arrow pointer to your approximate location and press ⒺⓃⓉⒺⓇ. Remember, you don't have to be exact. The StreetPilot only needs an idea where you are within a few hundred miles.

Step 5

Remote Antenna Mounting

The StreetPilot's antenna may be removed to allow remote-mounting of either the standard antenna or an optional amplified antenna. In some applications, remote-mounting an antenna will dramatically increase the number of satellites received. If satellite reception is limited in your particular application, you may want to consider one of the following options:

Remote Suction Cup Mount--allows you to mount the standard detachable antenna up to 6 feet away from the StreetPilot unit, using a suction cup. This mount should only be used inside a vehicle.

GA 26 Remote Antenna--allows you to mount an amplified antenna outside the vehicle, up to 8 feet away, using a supplied magnet or suction cup. Trunk lip and permanent flange mounts are also available.

To remove the attached antenna:

1. Rotate the antenna to a 45 degree angle (see bottom right picture). The antenna can only be removed or installed in this position.

2. Pull the antenna gently away from the StreetPilot unit.

3. To install an optional remote antenna, mate the BNC connector notches with the mounting posts on the back side of the StreetPilot unit and turn the knurled knob one-quarter turn clockwise.

APPENDIX B

GPS Satellite Reception

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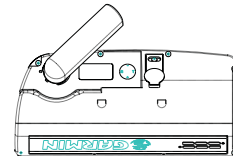
Appendix C--Specifications

The StreetPilot is constructed of high-quality materials and should not require user maintenance. If your unit ever needs repair, please take it to an authorized GARMIN service center. The StreetPilot has no user-serviceable parts. Never attempt any repairs yourself. To protect your StreetPilot, keep it in its carrying case (optional accessory) when not in use, and never allow gasoline or other solvents to come into contact with the case. To clean the case and lens, use a soft cloth and a household window cleaner.

PHYSICAL

Case:	Fully-gasketed, high-impact plastic alloy, waterproof to IPX7 standards
Size:	3.2"H x 6.8"L x 2.2"D (8.13 x 17.3 x 5.59 cm)
Weight:	1.2 pounds (478 g) with batteries
Display:	4.0" diagonal, 240 x 160 pixel, 4-level grayscale, backlit
Antenna:	Detachable with standard BNC-type connector
Temp. Range:	5˚ to 158˚F (-15˚ to 70˚C)†

PERFORMANCE

Receiver:	Differential-ready PhaseTrac12™
Acquisition Time:	Approx. 15 seconds (warm start) Approx. 45 seconds (cold start or user-initialized) Approx. 5 minutes (AutoLocate™)
Update Rate:	Once per second, continuous

Position Accuracy: 1-5 meters (3-15 ft) with DGPS corrections*
15 meters (49 ft) RMS**

Velocity Accuracy: 0.1 mph RMS steady state

Dynamics: Performs to specifications to 6 g's

Interfaces: NMEA 0183, RTCM (for DGPS corrections) and RS-232 for PC interface

Memory Back Up: Internal Lithium Battery, lasts up to 10 years

POWER

Input: Six 1.5-volt AA batteries† or 10-32 VDC external

Power Consumption:
1.5 Watts max. (backlight off)
3.0 Watts max. (backlight at full intensity)

Battery Life: Up to 16 hours††

ACCESSORIES

Standard: StreetPilot Unit with Detachable Antenna
Six AA Batteries
Owner's Manual
Quick Start Guide
Installation Instructions
MetroGuide Documentation
Dash Mount Kit

Optional: Cigarette Lighter Adapter
Power/Data Cable
Non-skid Beanbag Mount (no installation required)
Carrying Case
Remote Antenna
Differential Beacon Receiver for DGPS Corrections

Specifications subject to change without notice.

*With optional GARMIN GBR 21 Beacon Receiver Input.

**Subject to accuracy degradation to 100m 2DRMS under the U.S. DoD-imposed Selective Availability (SA) Program.

†The temperature rating for the StreetPilot may exceed the usable range of some batteries. Alkaline batteries can rupture at high temperatures.

††Alkaline batteries lose a significant amount of their capacity as temperature decreases. Use lithium batteries when operating the StreetPilot in below-freezing conditions. Extensive use of screen backlighting will significantly reduce battery life.

Appendix D--Wiring/Interfaces

Interface formats are selected from the System Setup page next to the "Comm Port" tab, described on page 35. The input/output lines on your StreetPilot are RS-232 compatible, allowing easy interface to a wide range of external devices, including PCs, differential beacon receivers, marine autopilots and/or a second GPS receiver.

The NMEA 0183 version 2.0 interface format is supported by the StreetPilot and enables the unit to drive up to three NMEA devices:

NMEA 0183 version 2.0 Approved sentences:

GPGGA, GPGLL, GPGSA, GPGSV, GPRMB, GPRMC, GPRTE, GPWPL, GPBOD

GARMIN proprietary sentences:

PGRME (estimated error), PGRMM (map datum), PGRMZ (altitude), PSLIB (beacon receiver control)

DGPS (Differential GPS) corrections are accepted in RTCM SC-104 version 2.0 format through the Data In line. The GARMIN GBR 21 is the recommended beacon receiver for use with the StreetPilot. Other beacon receivers with the correct RTCM format may be used, but may not correctly display status or allow tuning control from the GPS unit.

The StreetPilot may be hard-wired to a vehicle's electrical system (10-32 VDC) using an optional power/data cable. Consult the wiring diagram at the side of the page for proper connections. (The male connector on the back of the StreetPilot is illustrated). A cigarette lighter adapter is also available to power your StreetPilot without making permanent connections.

Additional cables are available to connect your StreetPilot to a PC-compatible computer's serial port (PC Interface Cable) or to connect to a second StreetPilot (Data Cross-Load Cable). Contact your GARMIN dealer for any of these accessories.

Appendix E--Navigation Terms

Arrival Time The estimated time of day you will reach your destination, based on your current speed and track.

Direction to Go The direction from your location to a destination point.

Distance to Go The distance from your location to a destination point.

Driving Avg Your average speed of travel during the time the vehicle has been in motion, since the Trip Computer was last reset.

Driving Time The length of time for which the vehicle has been in motion, since the Trip Computer was last reset.

Elevation The vehicle's height above Mean Sea Level (MSL), based on GPS measurements.

Max Speed The maximum speed recorded since the Trip Computer was last reset. Max Speed may also be reset individually, without resetting other Trip Computer information.

Odometer A running tally of distance traveled, based upon the distance between second-by-second location readings, since the Trip Computer was last reset.

Overall Avg Your average speed of travel (including time stopped) during the time the StreetPilot has been tracking your location, since the Trip Computer was last reset.

Speed The current velocity at which you are traveling, relative to a ground location. Also referred to as 'ground speed'.

APPENDIX E

Navigation Terms

Stopped Time   The length of time for which the vehicle has been stopped (stationary) during the time the StreetPilot has been tracking your location, since the Trip Computer was last reset.

Time to Go   The estimated time it will require for you to reach your destination, based on your current speed and the distance to the destination.

Total Time   The total length of time for which the StreetPilot has been tracking your location, since the Trip Computer was last reset. This is always equal to Driving Time plus Stopped Time.

Track   The direction of motion relative to a ground location. Also referred to as 'ground track'.

Track Log   A set of plotted points which, when displayed on the map, show where you have traveled. Sometimes known as a 'breadcrumb trail'.

Waypoint   A specific location on the earth. A waypoint can be used as the destination for a Direct Goto, or as part of a route.

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<u>Notes</u>

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