GARMIN

StreetPilot® c320

owner's manual

© Copyright 2005 Garmin Ltd. or its subsidiaries

Garmin International, Inc.
1200 East 151st Street,
Olathe, Kansas 66062, U.S.A.
Tel. 913/397.8200 or 800/800.1020
Fax 913/397.8282

Garmin (Europe) Ltd.
Unit 5, The Quadrangle,
Abbey Park Industrial Estate,
Romsey, SO51 9DL, U.K.
Tel. 44/0870.8501241
Fax 44/0870.8501251

Garmin Corporation
No. 68, Jangshu 2nd Road,
Shijr, Taipei County, Taiwan
Tel. 886/2.2642.9199
Fax 886/2.2642.9099

All rights reserved. Except as expressly provided herein, no part of this manual may be reproduced, copied, transmitted, disseminated, downloaded or stored in any storage medium, for any purpose without the express prior written consent of Garmin. Garmin hereby grants permission to download a single copy of this manual onto a hard drive or other electronic storage medium to be viewed and to print one copy of this manual or of any revision hereto, provided that such electronic or printed copy of this manual must contain the complete text of this copyright notice and provided further that any unauthorized commercial distribution of this manual or any revision hereto is strictly prohibited.

Information in this document is subject to change without notice. Garmin reserves the right to change or improve its products and to make changes in the content without obligation to notify any person or organization of such changes or improvements. Visit the Garmin Web site (www.garmin.com) for current updates and supplemental information concerning the use and operation of this and other Garmin products.

Garmin®, StreetPilot®, and MapSource® are registered trademarks of Garmin Ltd. or its subsidiaries and may not be used without the express permission of Garmin.

July 2005

Part Number 190-00435-00 Rev. D

PREFACE

Congratulations on purchasing the Garmin® StreetPilot® c320. To get the most out of your new navigation system, take the time to go through this owner's manual and learn how to use your unit.

Serial Number

Record the serial number (8-digit number on the back of the unit) in case your c320 needs service or you want to buy more maps.

Serial Number: ___ ___ ___ ___ ___ ___ ___ ___

Contact Garmin

Contact Garmin if you have any questions or if you should encounter any difficulty while using your StreetPilot c320.

In the U.S.A, contact Garmin Product Support by phone at 913/397.8200 or 800/800.1020, Monday–Friday, 8 AM–5 PM Central Time; or by e-mail at sales@garmin.com.

In Europe, contact Garmin (Europe) Ltd. at 44/0870.8501241.

Quick Links

- To find an address, see page 4.
- To understand information on the Map page, see page 11.
- To adjust the backlight brightness, see page 15.
- To clean and store your unit, see pages 25–26.
- To use the practice mode, see page 18.
- To understand safe mode, see page 18.

Preface i
Serial Number i
Contact Garmin i

Find It and Go! 1
Finding Your Destination 1
Following Your Route 2

Where To? ...3
Finding a Place by Spelling the Name 3
The Where To? Menu 3
Finding an Address 4
Finding a Place Using the Map 5
Expanding Your Search 6

My Locations 7
Saving Places You Find 7
Finding Saved Places 7
Understanding My Locations ... 7
Editing Saved Places 8
Setting a Home Location 9
Finding Recently Found Places 10

Viewing the Map and Other Pages 11
Viewing the Map Page 11
Trip Information Page 12
Current Route Page 13
Next Turn Page and Voice Directions 13
Adding a Detour to a Route .. 14
Stopping Your Route 14

Customizing the c320 ... 15
Adjusting the Brightness 15
Changing the c320's Settings 16
Changing Map Settings 17
Changing System Settings 18
Changing Time 19
Changing the Color Mode 20
Changing Navigation 21
Changing Language 22

Appendix 23
Mounting the c320 on Your Dashboard 23
Removing the Unit and the Mount 24
Caring for Your c320 25
Using an SD Card 27
Using the USB Drivers and Cable 27
Updating the c320 Software and Map Data 28
Resetting Your c320 28
Technical Specifications 29
Battery Information 29
Changing the Fuse 29
Charging the c320 29
Software License Agreement 30

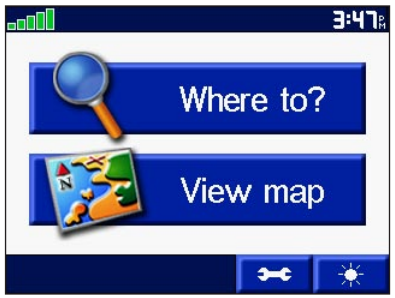
Index 31

FIND IT AND GO!

Use the Garmin StreetPilot c320 to find your destination and go to it!

Finding Your Destination

1



Touch **Where to?**

2

Select a category.

3

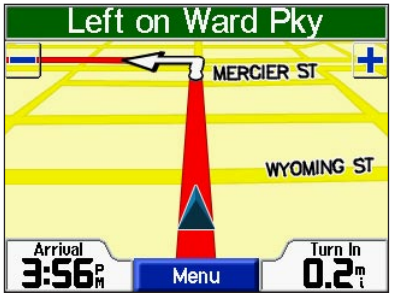
Select a destination.

4

Touch

.

5

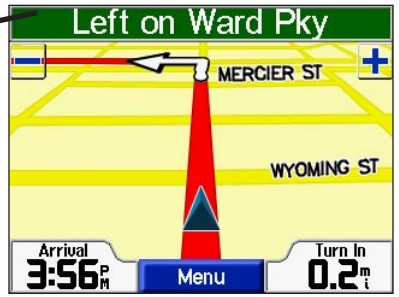


Enjoy the route!

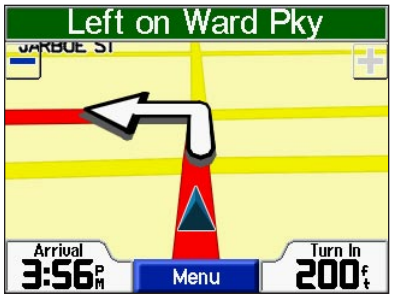
Following Your Route

Follow the route to your destination using the Map page. As you travel, your c320 guides you to your destination with vocal prompts, turn arrows on the map, and directions at the top of the Map page. If you depart from the original route, your c320 recalculates the route and provides new route instructions.

Read the driving instructions at the top of the page.



Your route is marked with a red line.



Follow the arrows as you take turns.

A checkered flag marks your destination.

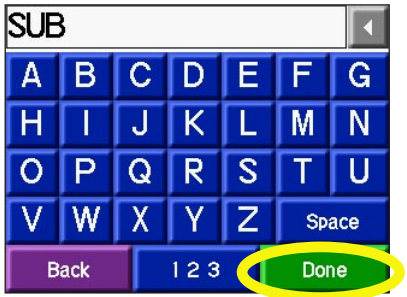
For more information about using the Map page, see pages 11–14.

WHERE TO?

Finding a Place by Spelling the Name

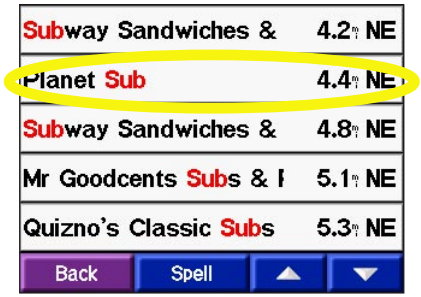
To enter the name of the place you are looking for, open the Menu page. Touch **Where to?** > **Spell Name**.

1



Enter a place using the on-screen keyboard. Then touch **Done**.

2

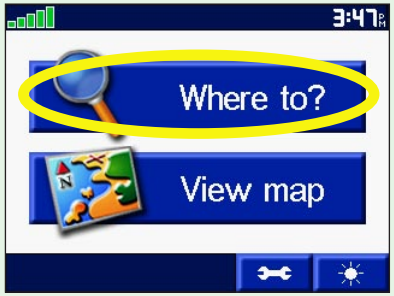


Select the place you want to visit.

You can also spell the name of the place you are looking for to narrow your search results list. If you do not see the place you want to visit in your list of search results, you can search for the place by selecting Spell.

The Where To? Menu

1



Touch **Where to?**

2

Select a category. Touch the arrows to see more categories.

Finding an Address

To find an address, touch **Where to?** from the Menu page. Touch **Address**.

1

Select a state.

2

Touch **Search All Cities**.

3

Type the number of the address and touch **Done**.

4

Type the street name until a list of streets appears or touch **Done**. Select the street.

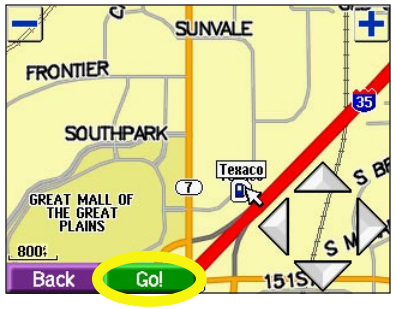
5

If necessary, touch the address. Touch Go!.

Finding an intersection is very similar to finding an address; touch **Intersection** and enter the two street names.

Finding a Place Using the Map

Use the Browse Map page to view different parts of the map. Touch **Where to? > Browse Map**. Touch any object on the map and select Go!.



Viewing Places on the Map

You can view a place you have found on the Browse Map page.

1.

Touch **Show Map**.

2.

Touch **Back** when you are done.

Browse Map Tips

- Touch the arrows to move the map around.
- Use the + and − icons to zoom in and out.
- Touch the item you are looking for. An arrow appears pointing at the object you selected.
- Touch **Back** Back to return to the previous screen.

Expanding Your Search

1

From the Main Menu, touch **Where To?** Then touch the **Near** button.

2

Select one of the search options. Touch **OK**.

Where I Am Now—searches for places near your current location. Your unit automatically uses this option.

A Different City—searches for places near the city you enter. For example, enter "Denver" to search for places near Denver.

My Current Route—searches for places along the route you are currently navigating.

My Destination—searches for places near the end of the route you are currently navigating.

Tip

Your c320 automatically searches for places near your current location.

My Locations

Saving Places You Find

1

After you have found a place, touch **Save**.

2

Touch **OK** to close the pop-up window.

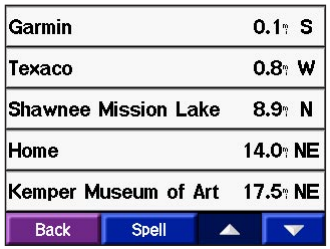
Finding Saved Places

From the Menu page, touch **Where to?** > **My Locations**.

1

Touch **Favorites**.

2



Select the place you want to visit.

Understanding My Locations

Think of My Locations as a container that stores all of your favorite places. You can set your Home location in My Locations. You can also find places that you have recently found.

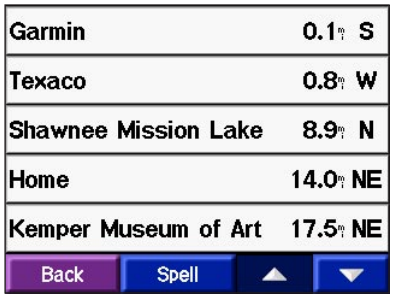
Editing Saved Places

After you save a place, you can change the name of the place and its symbol on the map. From the Menu page, touch **Where to?** > **My Locations**.

1

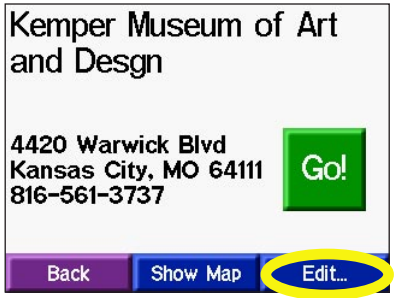
Touch **Favorites**.

2



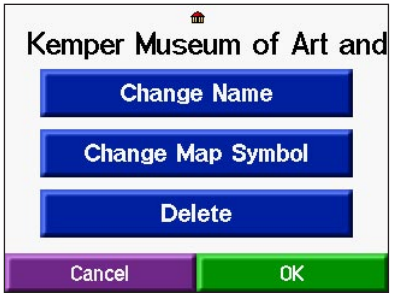
Select the place you want to edit.

3



Touch the **Edit** button. The Edit window opens.

4



Touch a button to change the name or the map symbol, or to delete the item.

Changing the Name

To change the name of the saved place, touch **Change Name**. Enter the new name using the on-screen keyboard that appears. Touch **Done**.

Changing the Map Symbol

To change the symbol of this place used on the map, touch **Change Map Symbol**. Select a symbol from the list that appears.

Deleting Saved Places

To delete this saved place, touch **Delete**. Then touch **Yes**.

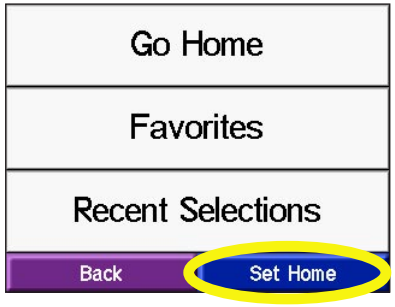
Setting a Home Location

You can set a Home location for the place you return to most often. After you have set your Home, you can easily **Go Home**.

1

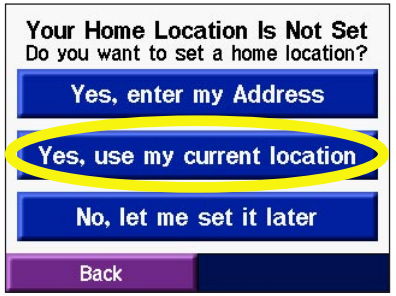
Touch **Where To?** > **My Locations.**

2



Touch **Set Home**.

3



Touch **Yes, use my current location**.

Going Home

Once your Home location is set, you can route to it at any time by touching **My Locations** and then **Go Home**.

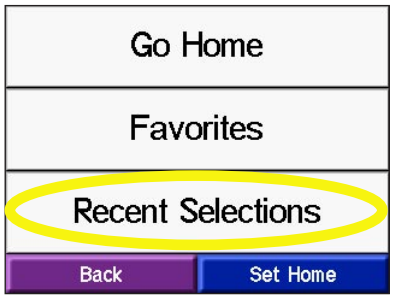
Changing Your Home Location

Change your Home location by repeating the steps you took to set it.

Finding Recently Found Places

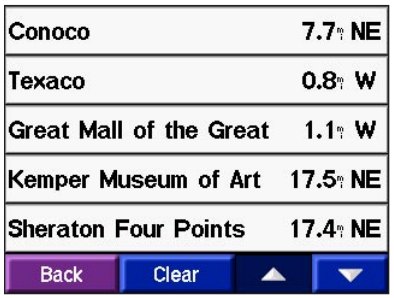
Your c320 stores the last 50 of your recent finds in Recent Selections. The most recently viewed places appear at the top of the list. From the Main Menu, touch **Where to?** > **My Locations** to view your recently found items.

1



Touch **My Locations** > **Recent Selections**.

2

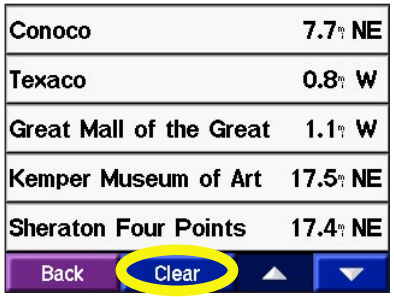


Select an item from the list.

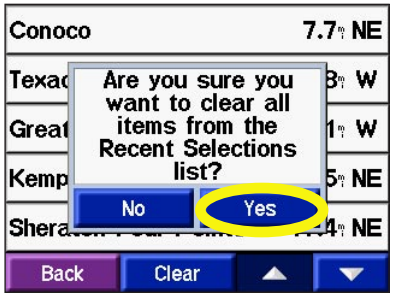
Deleting Recently Found Places

To remove all places from the Recent Selections list, touch **Clear**. Then touch **Yes**.

1



2



NOTE: *When you touch* ***Clear****, all items from the list are removed. It does not delete the actual place from your unit's system.*

VIEWING THE MAP AND OTHER PAGES

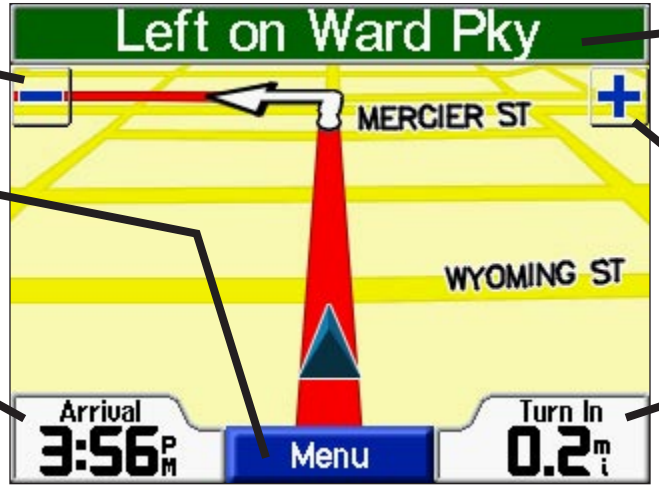
Viewing the Map Page

From the Menu page, touch **View map** to open the Map page. The position icon shows your current location. Touch buttons on the Map page to see additional information.

Touch to zoom out.

Touch **Menu** to return to the Menu page.

Touch **Arrival** or **Speed** to open the Trip Information page. See page 12.



Touch the text bar to open the Current Route page. See page 13.

Touch to zoom in.

Touch **Turn In** to open the Next Turn page. See page 13.

Map Page while Navigating a Route

Trip Information Page

The Trip Information page indicates your current speed and provides helpful statistics about your trip. To view the Trip Information page, select **Speed** or **Arrival** on the Map page.

Trip Information Page

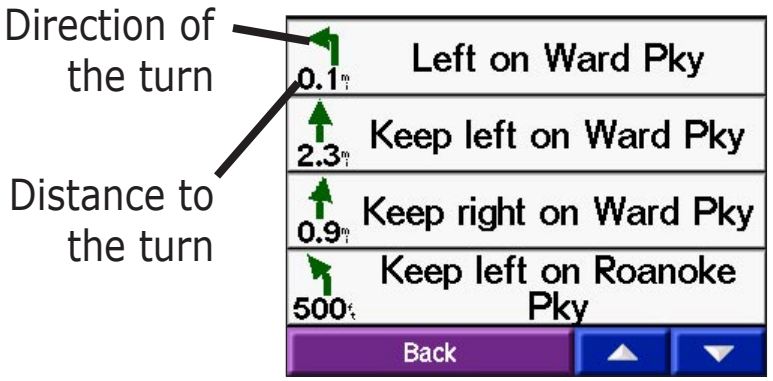
Resetting Trip Information

If you want accurate trip information, reset the trip information before beginning a trip. If you make frequent stops, leave the c320 turned on so it can accurately measure elapsed time during the trip.

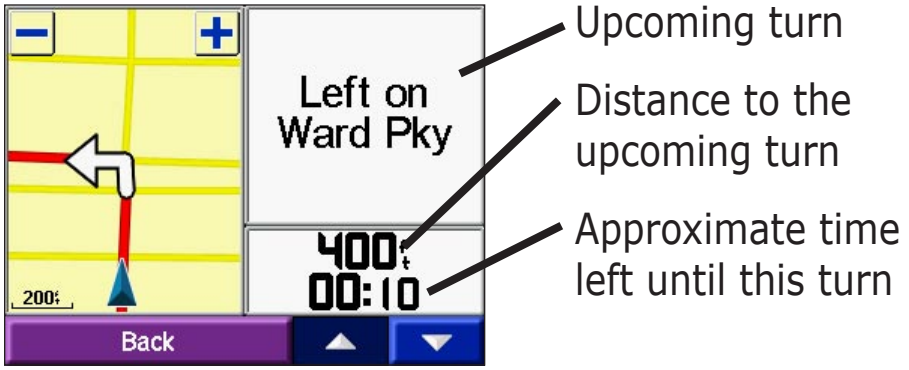
Select **Reset Trip** to reset the information on the Trip Information page. Select **Reset Max** to reset the Maximum Speed.

Current Route Page

The Current Route page displays turn-by-turn instructions for your entire route. Touch the green text bar on the top of the Map page to open the Current Route page. This page displays all turns in the route and the distance between turns. Select a turn on the list to view the Next Turn page for that turn.



Current Route Page



Next Turn Page

Next Turn Page and Voice Directions

The Next Turn page shows the turn on the map and the distance and time left before you reach the turn. To view an upcoming turn on the map, select **Turn In** on the Map page, or select any turn from the Current Route page.

Use the up and down arrows to view other turns in the route. When you are finished viewing the Next Turn page, select **Back**.

Adding a Detour to a Route

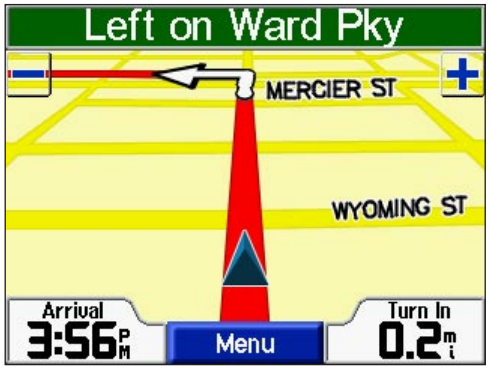
If you need to take a detour from your current route, select **Detour** from the Menu page of the c320. The unit calculates a new route and provides you with new instructions. The c320 attempts to get you back on your original route as soon as possible.

On some routes, the route you are currently taking might be the only reasonable option. In this case, you cannot take a detour.

Stopping Your Route

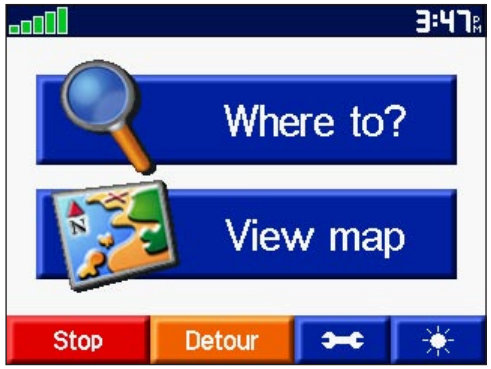
If you want to stop your current route, return to the Menu page and select **Stop**.

1



Select **Menu** to return to the Menu page.

2

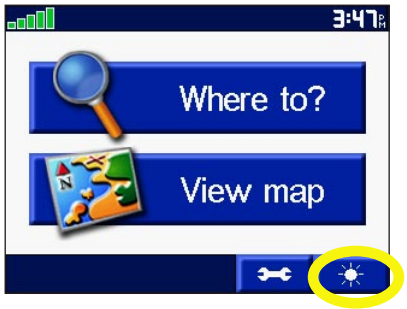


Select **Stop** to end navigation. Select **Detour** and your unit creates a new route if possible.

CUSTOMIZING THE C320

Adjusting the Brightness

1



Touch the button

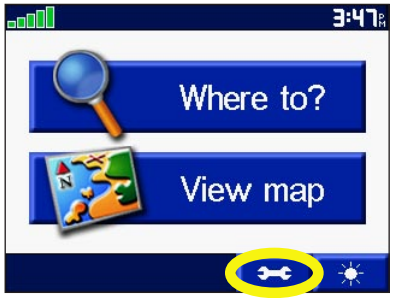
2

Touch the minus and plus signs to adjust the backlight. Touch **OK**.

Changing the c320's Settings

To change c320 settings, touch from the Menu page. See the following pages for more information.

1



Select the button to display the Settings page.

2

Select the setting you want to change.

Restoring Settings

To restore all settings you have changed, press the **Restore Settings** button, as shown below.

To restore settings for an individual category, such as Map, touch the Restore Settings button on that particular page.

Changing Map Settings

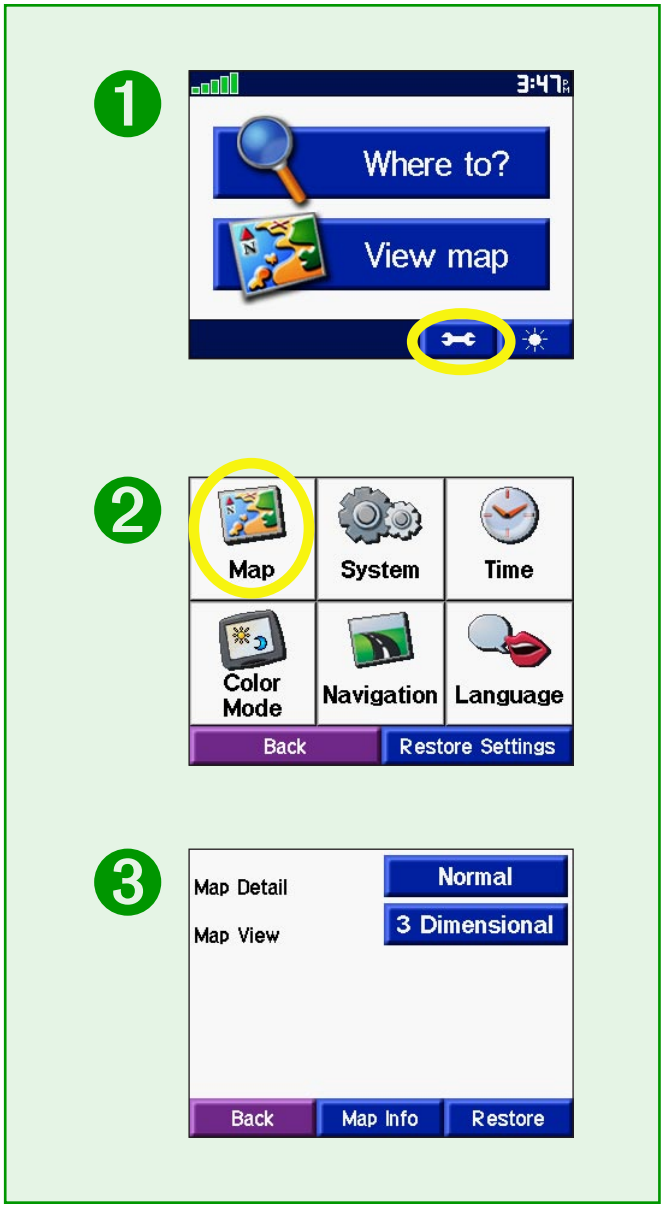
Map Detail—adjust the amount of detail shown on the map. Displaying more detail causes the map to redraw slowly.

Map View—change the perspective of the Map page.

- **Track Up**—display the map in 2 dimensions (2-D) with your direction of travel at the top.
- **North Up**—display the map in 2-D with North at the top.
- **3 Dimensional**—display the map in 3 dimensions (3-D), Track Up orientation. This is the default map view.

Map Info—list the maps loaded on your c320. Refer to this when you are ready to update your map software.

Restore—restore the original map settings.



Changing System Settings

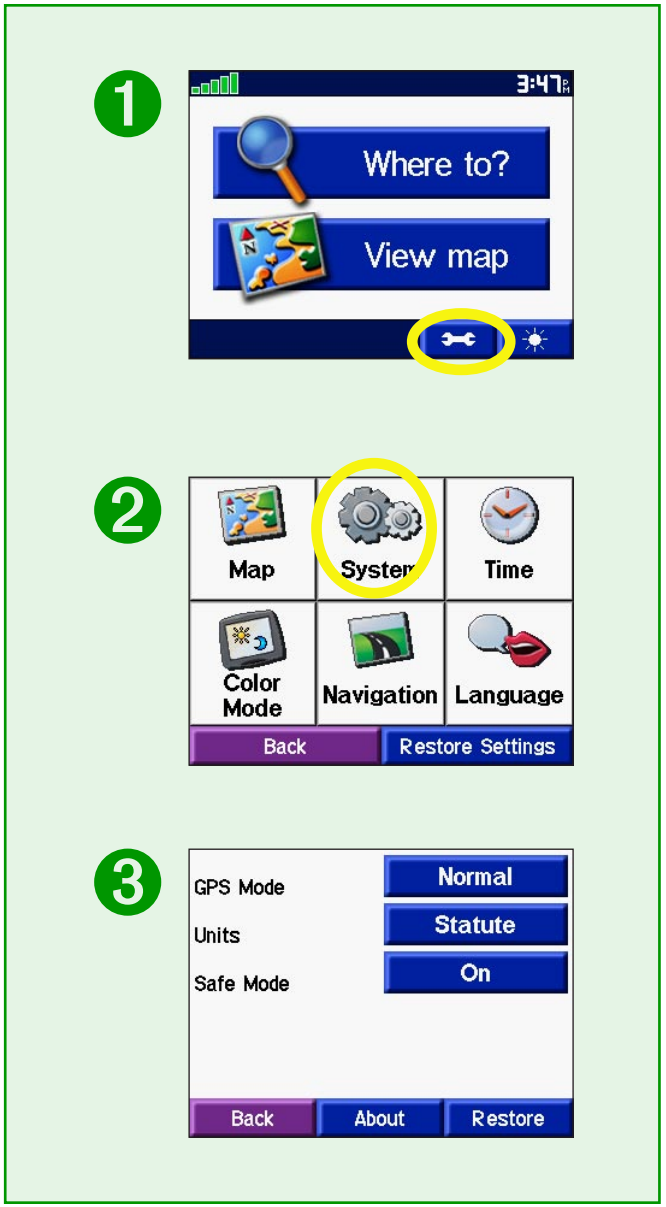
GPS Mode—set the unit's GPS receiver. Select **WAAS** to enable the WAAS system. Select **GPS Off** if you want to simulate routes indoors ("practice mode") with your c320.

Units—change units of measure to kilometers (Metric) or miles (Statute).

Safe Mode—enable or disable the Safe Mode feature to improve driver safety. When your vehicle is moving, Safe Mode disables all unit functions that require significant operator attention and could become a distraction while driving.

About—display your c320's software version number, unit ID number, and audio version number.

Restore—restore the original system settings.



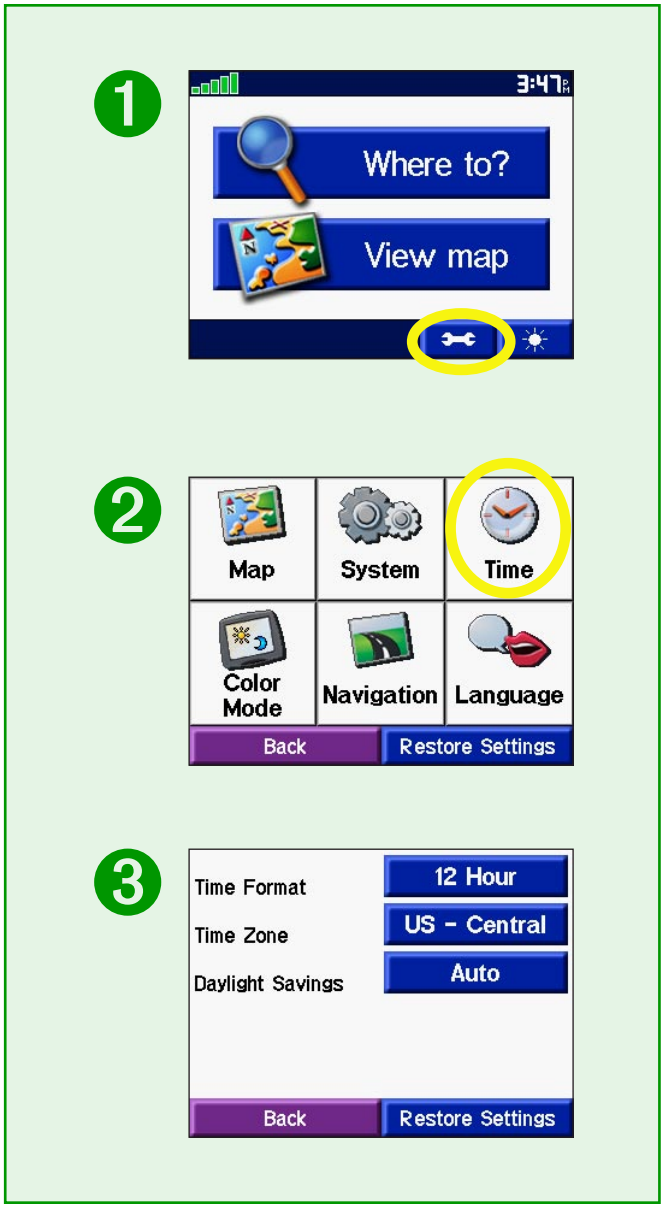
Changing Time

Time Format—choose a 12- or 24-hour time format or UTC time.

Time Zone—set the c320 to one of the U.S. time zones or choose from a list of cities all over the world.

Daylight Savings—set to On, Off , or Auto if it is available.

Restore Settings—restore the original time settings.



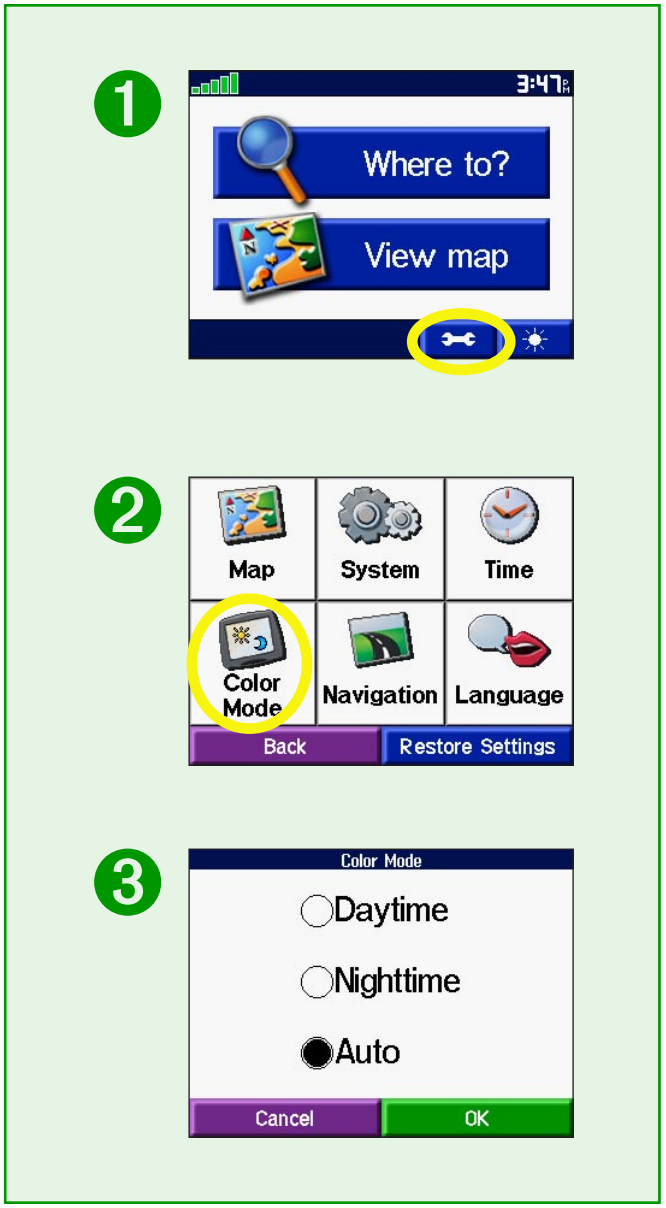
Changing the Color Mode

Color Mode—select one of the following options:

Daytime—light background.

Nighttime—black background.

Auto—automatically switch between the two at sunrise and sunset.



Changing Navigation

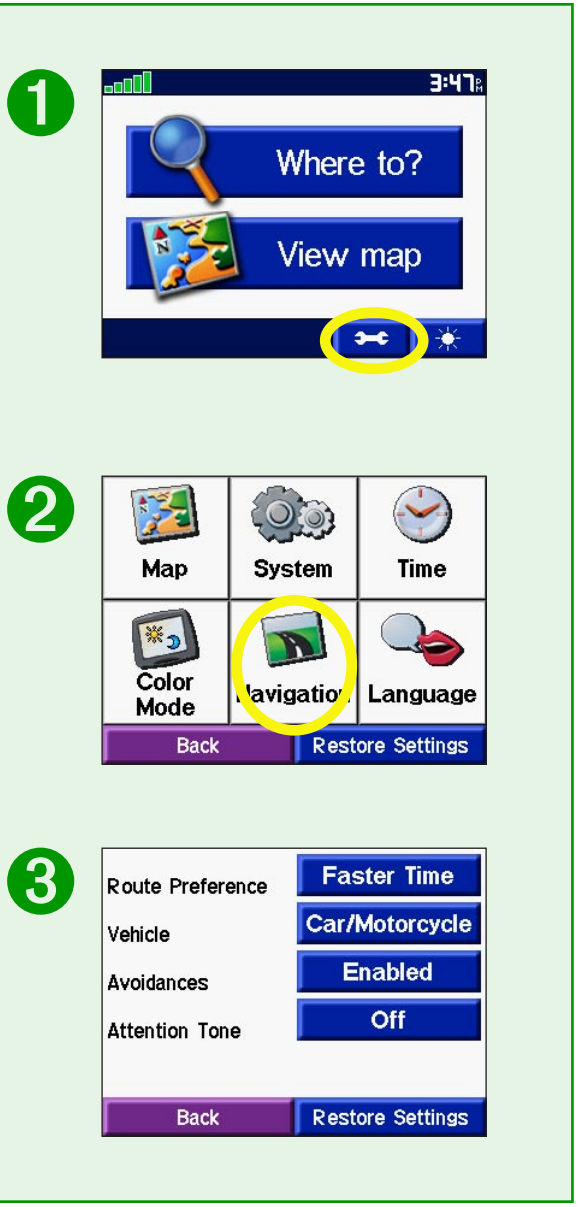
Route Preference—select a preference for calculating your route. Select **Faster Time** to calculate routes that are faster to drive but can be longer in distance. Select **Shorter Distance** to calculate routes that are shorter in distance but can take more time to drive.

Vehicle—specify your vehicle type to optimize routes.

Avoidances—select the **Enabled** button to access the road types. Select the road types you want to avoid on your routes. The c320 uses these road types only if alternative routes take you too far out of your way or if no other roads are available.

Attention Tone—turn the chime before voice prompts on and off.

Restore Settings—restore the original navigation settings.

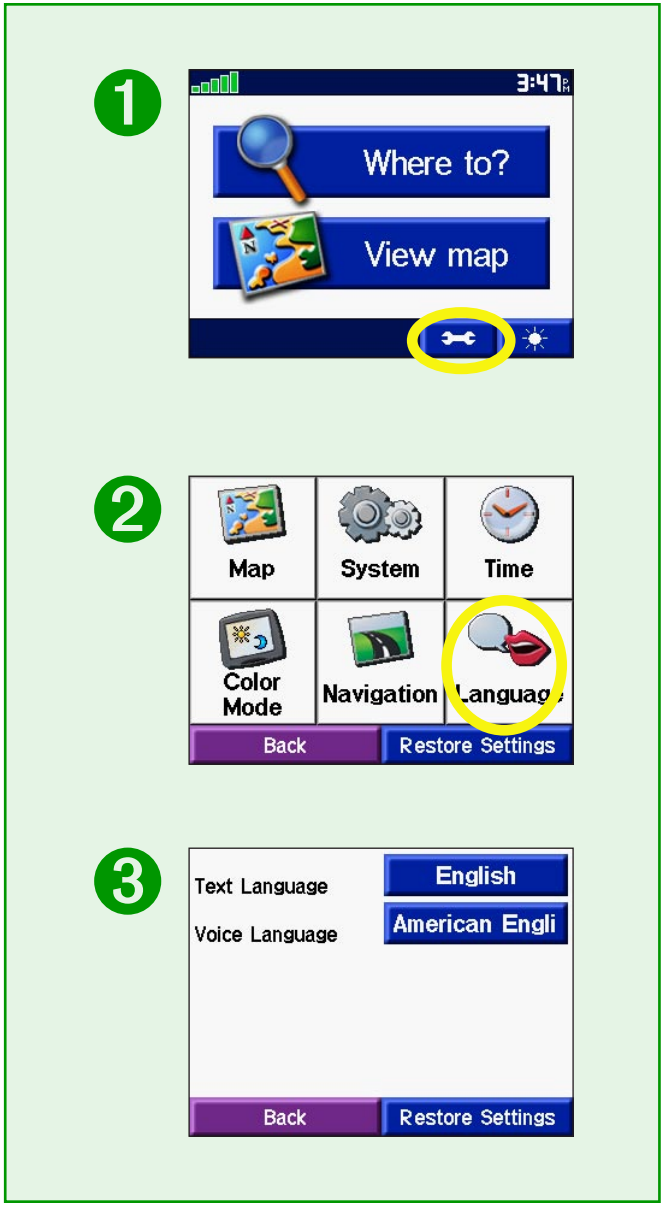


Changing Language

Text Language—change all on-screen text to the selected language. Changing the Text Language does not change the language of map data, such as street names and places or user-entered data.

Voice Language—change the language for all voice prompts and messages to the selected language.

Restore Settings—restore the original language settings.



APPENDIX

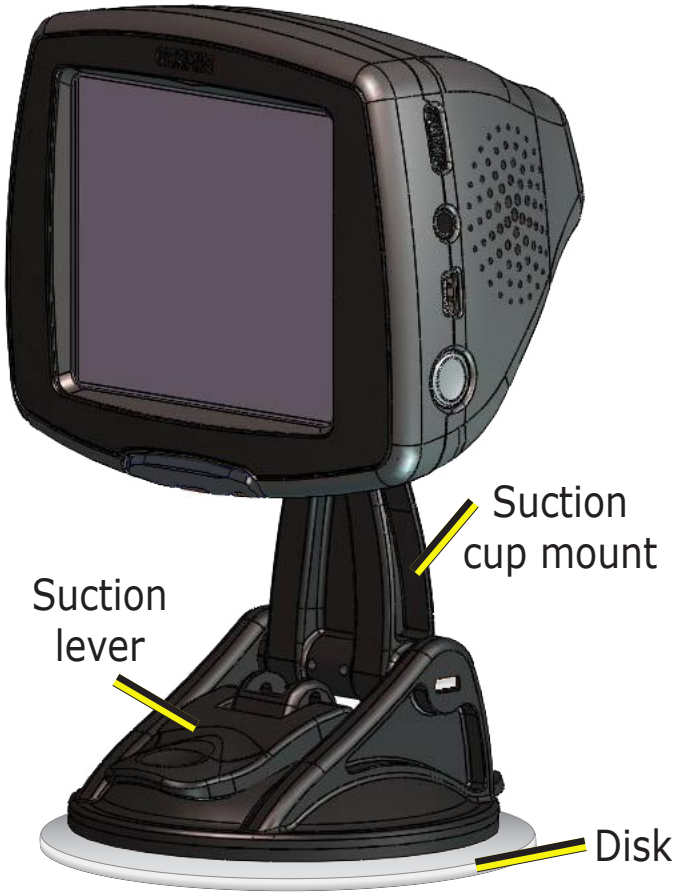
Mounting the c320 on Your Dashboard

Use the enclosed mounting disk to mount your unit to the dashboard. California drivers, use the enclosed disk to comply with California regulations: see the *c-series Product Information Sheet* that came in the box for more information.

Important: The **permanent** mounting adhesive is extremely difficult to remove after it is installed.

To install the mounting disk:

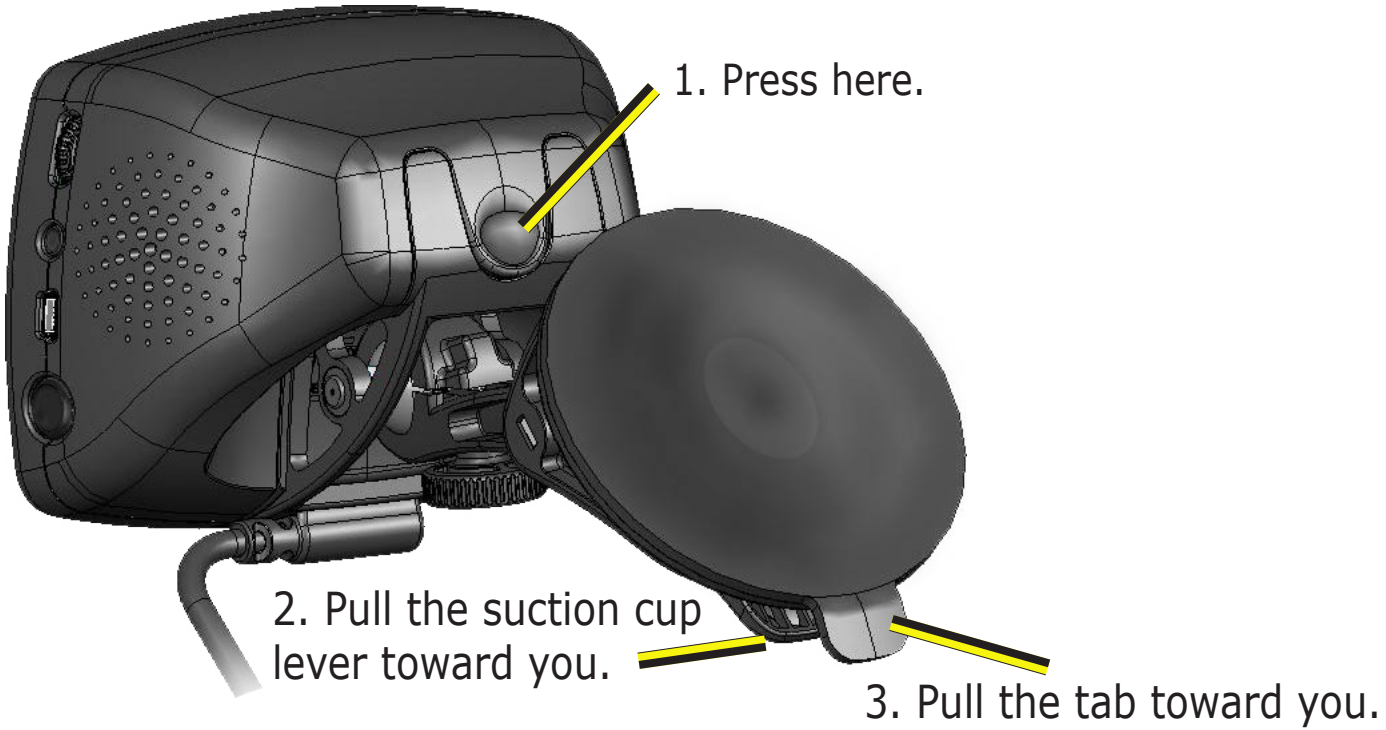
1. Clean and dry the dashboard where you will place the disk.
2. Remove the backing from the permanent mounting adhesive on the bottom of the disk and place the disk on the dashboard.
3. Place the c320 (still mounted to the suction cup mount) on top of the disk. Flip the suction lever to secure the suction cup mount to the disk.



Removing the Unit and the Mount

To remove the unit from the mount, press the indentation on the back of the unit. Then, lift the unit off of the mount.

To remove the suction cup from the windshield, flip the lever toward you and pull the tab on the suction cup toward you.



Caring for Your c320

Your c320 contains sensitive electronic components that can be permanently damaged if exposed to excessive shock or vibration. To minimize the risk of damage to your c320, avoid dropping your unit and operating it in high shock/vibration environments.

Cleaning the Unit

The c320 is constructed of high quality materials and does not require user maintenance other than cleaning. Clean the unit's outer casing (except for the touch screen) using a cloth dampened with a mild detergent solution and then wipe dry. Avoid chemical cleaners and solvents that can damage plastic components.

Cleaning the Touch Screen

The touch screen is intended primarily to be operated with a finger. Though a PDA stylus can also be used to operate the touch screen, never attempt this while operating a vehicle. Never use a hard or sharp object to operate the touch screen or damage may result. The touch screen should be cleaned using a soft, clean, lint-free cloth. Water, isopropyl alcohol, or eyeglass cleaner can be used if needed. If these are used, apply the liquid to the cloth and then gently wipe the touch screen.

Calibrating the Touch Screen

If you think the touch screen is not responding properly, press and hold the **Power** button until the Calibration screen appears. Follow the on-screen instructions.

Protecting Your c320

Follow the cautions below to protect your c320 from damage:

- Do not store the c320 where prolonged exposure to extreme temperatures can occur (such as in the trunk of a car), as permanent damage may result.
- Do not expose the c320 to water. Contact with water can cause this unit to malfunction.
- Do not leave your c320 in plain sight when you leave your vehicle. Take your unit with you or remove it from view to avoid theft.

Using the c320 Responsibly

Your unit is equipped with a "Safe Mode" feature to improve driver safety. Safe Mode disables certain functions that can distract you while driving. See page 18 for more information.

Using the c320 Indoors

You can set your c320 to indoor use, which stops satellite reception. Use this setting when you are practicing using the unit. To turn off satellite reception, set the unit to **GPS Off**. See page 18.

Using a Remote Antenna

You can use an optional external remote antenna (Garmin GA 27C). This is very helpful when operating the unit in a vehicle with a coated windshield or an in-screen (in the window) heating system, which can block GPS signals. Connect the antenna to the connector located on the back of the c320. To purchase, go to the Garmin Web site at http://www.garmin.com/products/sp320 and select the **Accessories** link.

Using an SD Card

The SD card slot is located on the side of the c320. To insert or remove the card, press it in until it clicks.

Purchasing Additional MapSource Maps

You can purchase additional MapSource map data from Garmin and download the maps to your SD card. Follow the instructions that came with the new map data to properly install the maps to your computer and c320. In order to enable additional maps, you need your unit ID (see page 18) and serial number (see page i).

Using the USB Drivers and Cable

Use the enclosed installation disk to install the USB drivers onto your computer. These drivers must be installed before you connect the USB cable to your computer. Refer to the Setup Guide for instructions.

Use the Garmin USB cable provided to connect your c320 to your computer. Before you can use your c320, you must connect the USB cable to your PC and unit and load maps. Also use the USB cable when updating your map data, updating the c320 software, or loading additional maps.

Updating the c320 Software and Map Data

Garmin periodically updates its software and map data. If you register your unit, you will receive notification of software and map updates.

Check the Garmin Web site at http://www.garmin.com/unlock/update.jsp to see if an update for your map software is available. Also check http://www.garmin.com/products/sp320/ and select the **Software Updates** link to see if an update to the c320's internal software is available.

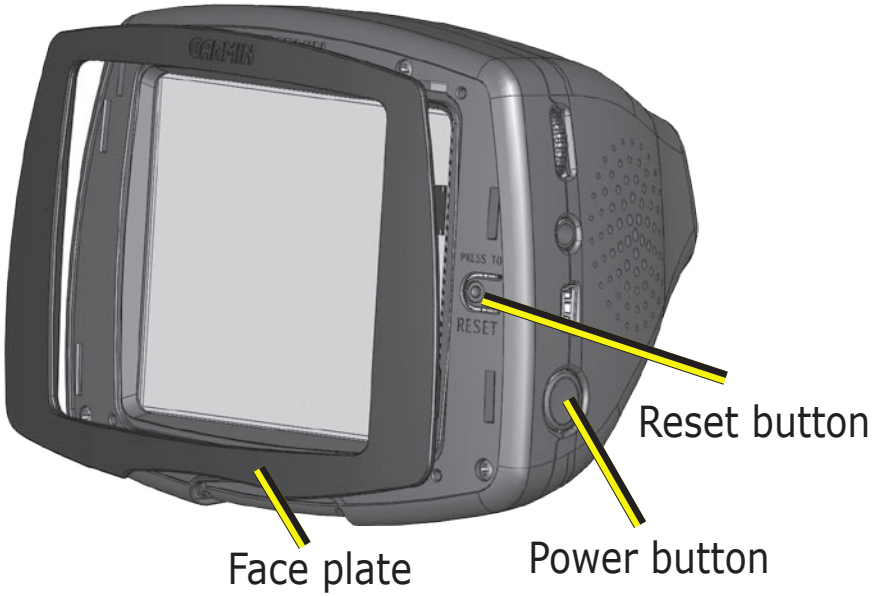
See page 17 for instructions on how to find your current MapSource software and version number.

Resetting Your c320

If your unit locks up, press the **Power** button to turn off the unit, then press again to turn the unit back on. If this does not help, reset your c320.

To reset the c320:

1. Place your thumb nail in the groove located under the Garmin logo on the face plate.
2. Gently pull off the face plate.
3. Press the **Reset** button.
4. Turn the unit back on; it will operate normally.



Technical Specifications

Size: 4.4" W x 3.2" H x 2.8" D

Weight: 9.45 ounces

Display: QVGA transflective TFT; 64K colors; bright white LED backlight, and touch screen

Map Storage: Removable SD memory card

Temperature: 32°F to 122°F (0°C to 50°C)

Power Supply: AGC/3AG 2 Amp fuse

Charge Time: Approximately three hours to charge

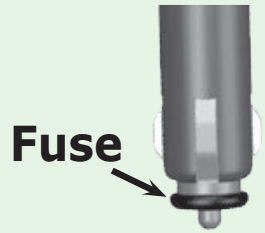
For a complete list of specifications, visit the Garmin Web site at http://www.garmin.com/products/sp320/spec.html.

Battery Information

Your unit contains an internal lithium-ion battery. To maximize battery life, limit your c320's prolonged exposure to excessive heat and direct sunlight. Contact your local waste disposal department for information on properly disposing of the unit.

Changing the Fuse

An AGC/3AG 2 Amp, high-breaking capacity, 1500 A-rated fuse is located at the tip of the vehicle adapter. Periodically, you may need to change the fuse. Unscrew the black, round end piece and replace the fuse.



Charging the c320

You can charge the c320 using USB cable (see page 27) or the car adapter that is connected to the suction mount.

Software License Agreement

BY USING THE c320, YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THE FOLLOWING SOFTWARE LICENSE AGREEMENT. PLEASE READ THIS AGREEMENT CAREFULLY.

Garmin grants you a limited license to use the software embedded in this device (the "Software") in binary executable form in the normal operation of the 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 the 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 engineer, 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.

NOTE: *The Garmin c320 has no user-serviceable parts. Should you ever encounter a problem with your unit, take it to an authorized Garmin dealer for repairs.*

NOTE: *The c320 is fastened shut with screws. Any attempt to open the case to change or modify the unit in any way voids your warranty and may result in permanent damage to the equipment.*

INDEX

Symbols

2 Dimensional 17
3 Dimensional 17

A

About Button 18
Audio version 18
Avoiding road types 21
Avoiding water damage 26

B

Backlight brightness 15
Battery information 29
Browse Map Page 5

C

Calibrating the touch screen 25
Caring for your c320 25
Cleaning 25
Color Mode 20
Contact Garmin i
Current Route Page 13
Customizing the c320 15
  color mode 20
  language 22
  map 17
  navigation 21
  system setup 18
  time 19

D

Daylight Savings 19
Deleting saved places 8
Detour, adding 14
Driving directions 13

E

Editing saved places (My Locations) 8
Expanding your search 6

F

Favorites 7, 8
Finding places
  address 4
  by name 3
  intersection 4
  item on the map 5
  recent selection 10
  saved item 7
Find a place near another place 6
Following your route 2
Fuse, changing 29

G

Go Home 9
GPS
  issues maintaining a fix 26
  mode 18
  turn off 26

H

Home Location 9
  change home 9
  go home 9
  set home 9

I

Items and road types to avoid 21

K

Keyboard 3

L

Language 22
License Agreement 30

M

Map 5, 11
  browse 5
  customize 17
  zoom 11
MapSource 27, 28
Map Info Button 17
Map software
  update 28
  version 17
Map symbol 8
Map view 17
Metric units 18
Mounting the c320 23
My Locations 7
  Favorites 7, 8
  Go Home 9
  Recent Selections 10

N

Narrowing your results list
  spell the name 3
Navigation settings and preferences 21
Near Button 6
Next Turn Page 13
North Up 17

O

On-screen keyboard 3

P

Position icon 11
Practice mode 18

R

Recently Found places
  delete 10
  find 10
Resetting your c320 28
Reset Max Speed 12
Reset Trip 12
Routing preferences 21

S

Safe Mode 18, 26
Saved Places
  change the map symbol 8
  change the name 8
  delete 8
  edit 8
Saving places you find 7
SD Card 27, 29
Serial Number i
Software License Agreement 30
Software version 18
Spelling the name 3
  to find a place 3
  to narrow your results 3
Stopping navigation 14
Storing the c320 26
System Setup, customizing 18

T

Theft, avoiding 26
Time 19
  customize 19
Touch screen
  calibrate 25
  clean 25
Track Up 17
Trip Information Page 12
Turn-by-turn directions 13

U

Units 18
Unit ID 18
USB 27
Using responsibly 26

V

Vehicle Type 21
Viewing Places on the Map 5
Viewing the Map 11
Voice Directions 13

Z

Zoom 5, 11

For the latest free software updates (excluding map data) throughout the life of your Garmin products, visit the Garmin Web site at www.garmin.com.

© Copyright 2005 Garmin Ltd. or its subsidiaries

Garmin International, Inc.
1200 East 151st Street, Olathe, Kansas 66062, U.S.A.

Garmin (Europe) Ltd.
Unit 5, The Quadrangle, Abbey Park Industrial Estate, Romsey, SO51 9DL, U.K.

Garmin Corporation
No. 68, Jangshu 2nd Road, Shijr, Taipei County, Taiwan

www.garmin.com

Part Number 190-00435-00 Rev D