BlueChart® user's guide

GARMIN®

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WARNING: The tide and current predictions derived from this software are not to replace the Canadian Tide and Current Tables, which are required under the Charts and Nautical Publications Regulations of the Canada Shipping Act and which must be used for navigation within Canadian waters. Official Canadian Tide and Current Tables may be obtained from the following location:

Chart Distribution Office
Canadian Hydrographic Service
Department of Fisheries and Oceans
Institute of Ocean Sciences, Patricia Bay
P.O. Box 6000, 9860 West Saanich Road
Sidney, British Columbia, V8L 4B2
Tel: (250) 363-6358; Fax: (250) 363-6841
E-mail: chartsales@pac.dfo-mpo.gc.ca
Web: http://www.charts.gc.ca

Tide and current predictions derived from this software may not be used commercially without a license from the Canadian Hydrographic Service, Department of Fisheries and Oceans. Please contact the Chart Distribution Office at the above address for more information.

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Preface

Terminology

This guide uses the following terminology:

- **Card**—Garmin data card and microSD™ card.
- **Garmin unit**—Garmin GPS unit and Garmin chartplotter.

Warranty Information

Examine your preprogrammed BlueChart card or MapSource BlueChart disk for damage immediately upon receipt. Garmin accepts returned cards within 10 days of the purchase date, if the card is found to be defective. Garmin accepts and replaces opened MapSource BlueChart disks within 10 days of purchase for defective software. Garmin does not refund or exchange opened software for reasons other than defect.

Product Registration

Help us better support you by completing our online registration today! Why should you register? By registering your purchase you are assured of notification of product updates or information about new products.

Preprogrammed BlueChart Cards

Have the ID code of your preprogrammed BlueChart card handy, and connect to Garmin's Web site at http://www.garmin.com. (See page 14 of this guide for information about the ID code.)

From the Garmin home page, click on **Product Registration** on the left side of the page. Select **Data Card (Pre-Programmed)**, and click on **Next**. Select **BlueChart Data Card** from the drop-down list, and click on **Next**. Complete the contact information, and then click on **Next** to complete the registration.

MapSource BlueChart Software

See page 4 for information about unlocking MapSource BlueChart disks.

Contact Garmin

If you encounter any difficulty while using BlueChart, or if you have any questions, in the U.S.A. contact Garmin Product Support by phone: 913/397.8200 or 800/800.1020, Monday–Friday, 8 AM–5 PM Central Time; or go to www.garmin.com/contactUs, and click on **Technical Product Support**; or send an e-mail to cartography@garmin.com.

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

Introduction

BlueChart is Garmin's exclusive marine cartography, which works with compatible Garmin units. BlueChart's detailed electronic nautical charts look like paper charts when displayed on your Garmin unit or on your PC. BlueChart data is available in three formats:

Preprogrammed Garmin data card or **microSD™ card**—contains detailed maps based on map coverage regions. Garmin cards work only with compatible Garmin units.

MapSource software—contains detailed maps that you can load onto Garmin data cards, microSD cards, or SD™ cards; or you can load directly to compatible Garmin units. This offers more flexibility in choosing specific maps within a coverage area.

For information about purchasing BlueChart cards, see page 16 of this guide.

For information about transferring MapSource maps to a card or a Garmin unit, see the MapSource Help file.

Understanding BlueChart Data

BlueChart electronic charts use graphic symbols to denote map features. Some common symbols you might see include, but are not limited to, the following:

Airport/Seaplane Base

Anchorage Berth

Anchoring Prohibited

Beacon

Building

Buoy

Church

Dangerous Rock

Explosive

Exposed Rock

Exposed Wreck

Fishing Harbor

Fishing Prohibited

Information

Marina Information

Pilot Boarding Area

Precautionary Area

Radio Report Point

Recommended Anchorage

Rescue Station

Tide Station

Yacht Harbor

Other features common to most BlueChart data include:

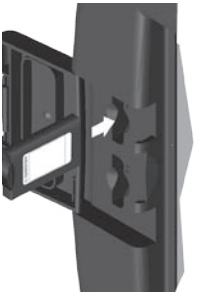
- Depth contour lines (with deep water represented in white)
- Inter-tidal zones (displayed in green on color units)
- Spot soundings, as depicted on the original paper chart
- Navigational aids and symbols
- Obstructions and cable areas

For more information about nautical chart symbols in the United States of America, see *Chart No. 1 Nautical Chart Symbols Abbreviations and Terms* at http://www.noaa.com.

Getting Started

Installing a BlueChart Card

Look for a compartment door or rubber weather cap on the bottom of your Garmin unit. Beneath that door is a slot for the BlueChart card.



To insert the card, place the card into the slot (connector end first) with the label facing toward the front of the Garmin unit. When the card is in place, close the compartment door, or reinsert the rubber weather cap. See your Garmin unit owner's manual for specific card installation instructions.

CAUTION: Insert the connector end of the card into the card slot. Improper installation can result in damage to your Garmin unit and can void your warranty.

Installing MapSource BlueChart Software

With MapSource software, you can view color maps on a PC. You can also create waypoints, routes, and map sets to transfer to your Garmin unit. MapSource BlueChart data is in locked regions within each of the three coverage areas (Americas, Atlantic, and Pacific). When you unlock a region, you can select the individual charts that you want to use.

Refer to the MapSource BlueChart software for installation instructions.

Refer to page 9 for information about using MapSource BlueChart software.

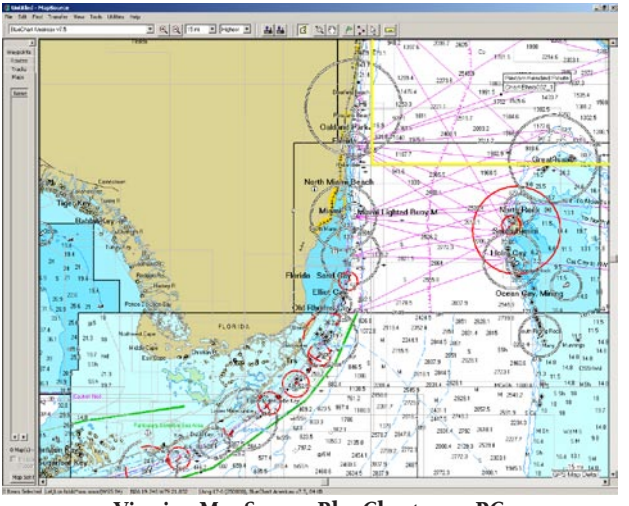
BlueChart Card Caution and Unlock Disclaimer

CAUTION: Do not use preprogrammed BlueChart cards for saving MapSource maps. The preprogrammed data will be lost. Remove any BlueChart cards in your Garmin unit before transferring MapSource maps to the unit to avoid losing the preprogrammed data. If you overwrite the preprogrammed data on a BlueChart card, Garmin will not replace or recover the lost data.

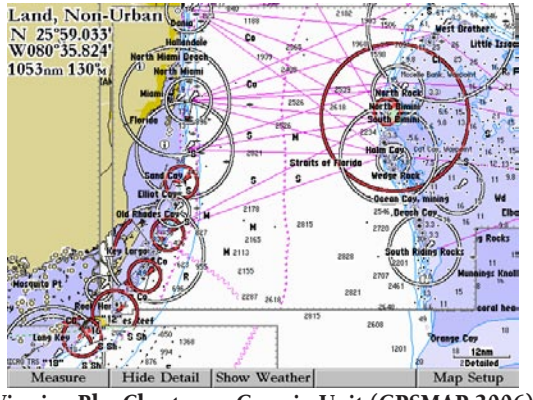
DISCLAIMER: Your MapSource unlock code is valid for use with your own Garmin unit. You must have a separate unique unlock code for each Garmin unit. If you own more than one Garmin unit or upgrade to a new Garmin unit, you must have a separate code for each Garmin unit. If you personally own two Garmin units, you may obtain a second unlock code for the same region for your own personal use at no additional charge. Simply repeat the unlock process for the second unit. No more than two Garmin units may be unlocked with the purchase of a single unlock code. You must purchase a new unlock code if you have already unlocked two Garmin units. Information about obtaining additional unlock codes can be found at: http://www.garmin.com/unlock/. This agreement provides a one-user license and it is illegal to share this data with others. Garmin does not give refunds or exchanges for MapSource unlock codes.

Viewing BlueChart Information

The details and symbols in BlueChart cartography are almost identical whether you are looking at MapSource data on your PC screen or directly on your Garmin unit.



Viewing MapSource BlueChart on a PC



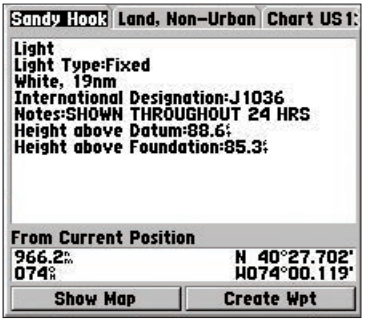
Viewing BlueChart on a Garmin Unit (GPSMAP 3006)

Getting Additional Object Information

For many objects that you see on a BlueChart map, you can access additional information about that object.

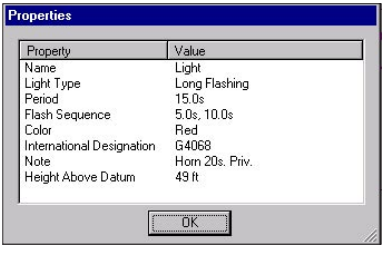
To get additional information when using a Garmin unit:

Place the unit's cursor on an object, and press **ENTER**. A window appears with additional information for the selected object.



To get additional information when using MapSource on a PC:

1. Move the mouse cursor onto a map object. The map object name appears in a white box.
2. With the selection tool (press **S** on the keyboard), and click the right mouse button on an object. If more than one object is at a given map location, a list of map object names appears first.
3. Select an object, and then select the **Feature Properties** option. A Properties window appears.

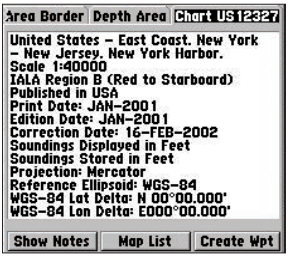


Getting Paper-Chart-Specific Information

BlueChart cartography also provides paper-chart-specific information, such as chart publisher, print date, edition date, NTM (Notice to Mariners) correction date, and scale. Additional notes are available for the paper charts.

To display paper chart-specific information on your Garmin unit:

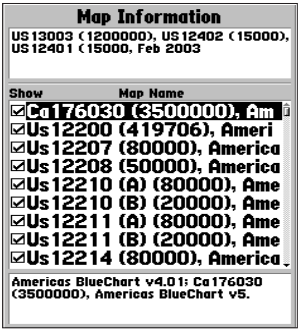
Place the unit's cursor on an open area of the chart, and press **ENTER**. A window displays the chart information and allows you to view additional notes about the chart area.



BlueChart electronic map detail is presented on a chart-by-chart basis. By providing paper chart-specific information, you can know exactly from which chart and scale each displayed feature is digitized. BlueChart electronic charts are a faithful reproduction of the published official paper charts that mariners are required to carry.

BlueChart data is not seamless. Just like the paper charts from which the data is derived, you might observe some discontinuity along chart borders, both on your Garmin unit and on your PC screen in MapSource. For example, if a contour is present on one chart, and not on the adjacent chart, the BlueChart data is represented on your Garmin unit or PC screen the same way. Likewise, if adjacent paper charts that generate BlueChart data are of different scales, you might encounter shaded areas on the Garmin unit. This can occur at any zoom level and can be easily remedied by zooming out one or two scale levels on the Garmin unit.

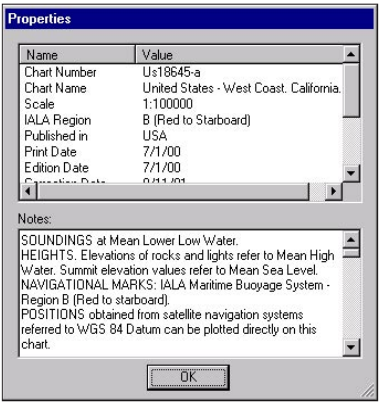
A feature of presenting data in a chart-by-chart manner is selecting only those paper charts that you have on hand or that you want displayed on the Garmin unit. By default, all available charts are displayed from preprogrammed cards. With MapSource, you can choose which charts to download. See your Garmin unit's owner's manual for specific steps, but the Garmin unit screen generally appears as shown.



From this screen, use the Garmin unit's on-screen cursor and press the **ENTER** key to deselect (remove the check mark from the box) the individual paper charts that you do not want to display.

To display chart information on your PC screen using MapSource:

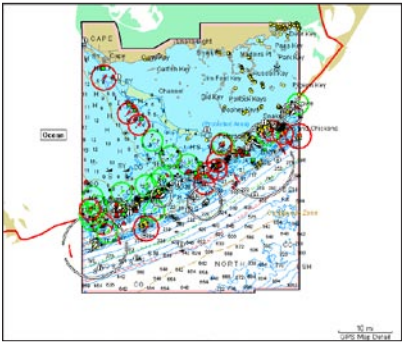
1. Place the mouse cursor within a chart boundary, and (with the selection tool) right-click the mouse.
2. Select the name of a chart, and then select **Feature Properties**. The Properties window appears.



Using MapSource BlueChart

With MapSource software, you can view color maps on a PC. Use the zoom and pan functions for easy map browsing. With MapSource, you can also create waypoints, routes, and map sets to transfer to your Garmin unit (see the MapSource Help file for more information). In MapSource, BlueChart data is in locked regions within each of the three coverage areas (Americas, Atlantic, and Pacific). When you unlock a region, you can select the individual charts that you want to use.

Chart boundaries often overlap, and each chart is outlined in gray on your PC screen. As you move the mouse cursor around the map with the Map Tool selected, each chart is outlined in yellow. You can adjust the zoom level to see the entire outline of each chart. To save a chart to a card or GPS unit, click inside a chart highlighted in yellow. Select large scale charts and small scale charts, so that you can see the BlueChart data at multiple zoom levels on your Garmin unit.



To focus on the details of only one chart at a time:

1. With the Map Tool selected, right-click the mouse within the desired chart boundary.
2. Select the desired chart name (if necessary).
3. Select **Show This Map Only**.
4. To return to the full map display, right-click within the chart again, and select **Show All Maps**.

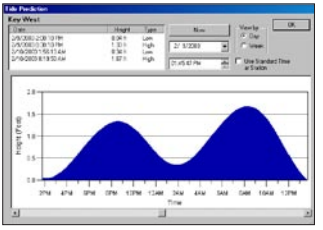
Notice the red, green, and white circles on the MapSource BlueChart map. These are light sectors, which show at what proximity in every direction the mariner can see the lights. If there is a break in the circle, the light cannot be seen from that direction. The color of each circle corresponds with the color of the light. This is a special feature of MapSource BlueChart that is not seen in BlueChart data on all Garmin units.

Viewing Tides and Marine Services Information

MapSource BlueChart provides tide prediction. Because of overlapping charts and duplicate symbols, MapSource separates the tides and marine services information from the rest of the BlueChart data for easier viewing on your PC screen. Many Garmin units can display tide information. See your Garmin unit's owner's manual for compatibility and instructions on viewing tide information on your unit.

To view tide or marine services information using MapSource:

1. Go to **View**, then **Region,** and then select **Tides and Marine Services**.
2. With the Selection Tool (press **S** on the keyboard), right-click the mouse on a Tide Station symbol, and select **Predict Tides** to see the tidal information for that area. A Tide Prediction screen appears.

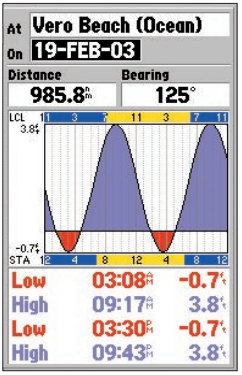


To view details about marine services:

1. Right-click the mouse on a Marina Information symbol.
2. Select **Feature Properties**. A Properties window appears.

To view tides and marine services information on your Garmin unit:

1. Select and download the desired tide and marine services maps the same way you would with MapSource BlueChart maps.
2. To display the same marine properties information found in MapSource on your Garmin unit, place the map cursor on the desired symbol, and press **ENTER**.



Understanding the Differences Between Electronic and Paper Charts

Occasionally, boaters notice that the BlueChart data does not duplicate a particular feature shown on the paper chart they are using. Garmin uses the best charts available and carefully turns the paper charts into a digital format for display on an electronic screen. If there are errors, omissions, or discrepancies on paper, they might occur electronically too.

On paper charts, sometimes even large features like a breakwater might not be shown clearly or at all. Large breakwaters are sometimes not shown on the harbor charts, but are shown on coastal charts—or vice versa! These decisions are made by the chart maker, such as NOAA/NOS. In some cases, bridges, or other features washed away in storms decades ago, are still shown on the paper charts. Recent changes in coastlines are often not reflected on paper charts for years.

The same is true for new marinas and ports. Sometimes, well-known local landmarks might be shown so small on the paper chart that they are indistinguishable from surrounding features to someone not familiar with the area. In these cases, a feature might not be accurately depicted on the electronic chart.

Reporting Chart Errors

Even when a feature is shown on the paper chart, it can be overlooked or misspelled during the data entry process. These are small problems that can be easily corrected and do not affect the quality of the overall BlueChart data.

If you notice something missing or incorrect in the BlueChart data, first check the best available scale paper charts of the area to see how the feature is represented on the paper chart. If we have not represented it accurately, or if you know additional information about the feature, please visit Garmin's Web site and fill out the online error report form. You can find this form at http://www.garmin.com/cartography/bluechart/errorForm.html.

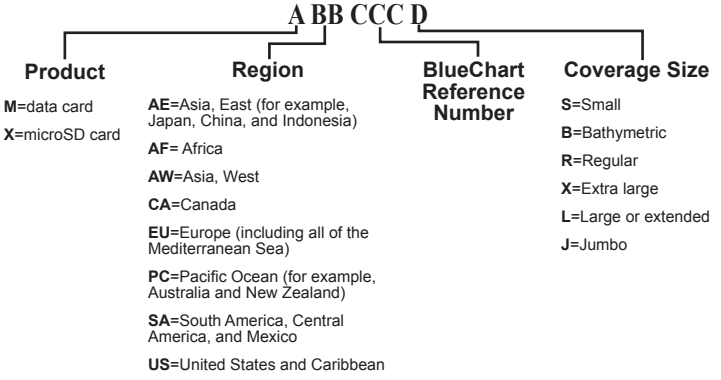
APPENDIX

Caring for Your BlueChart Card

BlueChart cards are not waterproof. When you are not using the card, keep it in the original packaging for safekeeping and store it away from exposure to sun and rain. BlueChart cards are susceptible to damage from static electricity. In low humidity environments, you should ground yourself on a large metal object before handling the card. The card packaging is sealed and does not contain any user-serviceable parts.

Reading the ID Code on a BlueChart Card

Preprogrammed BlueChart cards have a seven-digit ID code. This identification system uses the following conventions:



For the most recent listing of available BlueChart cards, visit the Garmin Web site at http://www.garmin.com. From the Maps and Charts section of the Garmin Web site, you can view the listing of available BlueCharts, the areas of coverage, and the paper charts contained within each card. A printed list is also available, which lists Garmin's current BlueChart cards, part numbers, and the latest pricing.

Exclusive Garmin Programs

These programs apply to the U.S. market only. These programs are not available through our European or Asian offices. All programs listed are available directly from Garmin U.S. to end-users only.

Garmin believes that updates are an extremely critical issue for Marine Cartography, and we are committed to providing our customers with regular semi-annual updates. As updates occur, we will make every effort to ensure that the areas of coverage for a given card or MapSource region remain the same. Updates may include new data or NTM (Notice to Mariners) changes. Any changes can be viewed on details page for each card.

BUYER PROTECTION POLICY: (Applies ONLY to preprogrammed BlueChart cards.) If a BlueChart card is updated within 30 days of the original purchase date you may receive one free update. The identification number and coverage area must remain the same.

UPDATE/TRADE-IN PROGRAM: (Applies ONLY to preprogrammed BlueChart cards.) Garmin will strive to offer semi-annual updates. If you own a factory preprogrammed BlueChart card that is outdated, or would like to purchase a card for a different coverage area, Garmin offers an Update/Trade-In program. Simply send us your old factory preprogrammed BlueChart card, and receive a 50% discount towards Garmin's list price on any factory preprogrammed BlueChart card that includes sizes of S(mall), R(egular), L(arge), and B(athymetric). These sizes of cards can be interchangeable, for example, trade-in a Small BlueChart card for a Bathymetric card, or vice versa. For e(X)tra large cards, you may update or trade-in ONLY for the same extra large card (exact part number) or for a different extra large card (part number ends in X) for a 50% discount. For (J)umbo cards, you may update or trade-in ONLY for the same jumbo card (exact part number) or for a different jumbo card (part number ends in J) for a 50% discount. Only one update or trade-in per new BlueChart card is allowed. BlueChart pre-programmed cards CAN NOT be traded in for any MapSource BlueChart Software. To return BlueChart for update, contact Garmin Cartography at 800/800.1020 (or e-mail at: cartography@garmin.com) to obtain a Return Material Authorization (RMA) number. The return authorization number must appear on the outside of the shipping package, and the BlueChart card must be shipped freight prepaid to Garmin at: 1200 East 151st Street, Olathe, KS 66062.

UPGRADING FROM G-CHARTS TO BLUECHARTS: If you have previously used Garmin's G-Chart line of electronic maps, please note that we have discontinued support for that product line. Additionally, G-Charts will not work in our BlueChart-compatible chartplotter product line. The BlueChart line provides added flexibility, greater coverage and offers you cost savings. To encourage current Garmin customers to upgrade to our BlueChart line, Garmin provides a 25% discount on new BlueChart cards or MapSource BlueChart Software for end-users who send us an old G-Chart, excluding our Extra Large and Jumbo BlueChart cards. This is a one-for-one discount

available directly from Garmin only. To verify compatibility with BlueChart data, you will be asked to present proof of a new chartplotter purchase. (**NOTE:** BlueChart is not compatible with all Garmin models. Refer to http://www.garmin.com for more information.)

Software License Agreement

BY USING BLUECHART, 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.

Purchasing BlueChart Cards or MapSource BlueChart Software

You can purchase additional BlueChart cards or MapSource BlueChart software by contacting Garmin at one of the addresses or phone numbers listed on the copyright page of this guide.

Three MapSource BlueChart disks are available: Americas, Atlantic, and Pacific. One disk contains BlueChart data for the specific coverage area purchased and is a convenient way to reprogram and use your BlueChart card in more than one area. MapSource BlueChart is a Microsoft® Windows®-based program which uses Garmin unlock technology, allowing you to use one coverage area from the disk when initially purchased and to purchase additional coverage areas as the need arises. (Internet access is recommended for completing the unlock process.) The disk is a cost-saving alternative to purchasing multiple BlueChart cards. Updates are distributed on new disks, providing a convenient method of acquiring the most recent chart data.

BlueChart® Data Card or microSD™ Card Order Form

If you want to trade-in or update BlueChart, please contact Garmin Product Support at: 800/800.1020.

Shipping Address:

Name _____ Date _____

Street Address _____

City _____ State _____

Zip/Postal Code _____ Country _____

Telephone _____ Fax _____

E-mail Address _____

Card Format Requested: Garmin Data Card [ ] microSD Card [ ]

BlueCharts Requested (for example, MUS006R - Chesapeake) _____

_____

Model of Garmin Chartplotter or GPS Unit You Own_____

NOTE: BlueChart cards do not work with all Garmin units. MicroSD cards work only with the X-series Garmin handheld units. Please refer to the product information for your Garmin unit at garmin.com for information about which Garmin units work with each card.

[ ] Express Shipping (additional charge applies)

Charge Agreement:

I authorize Garmin to charge my VISA/MasterCard/American Express/Discover for the appropriate amount.

Data cards should be examined immediately upon receipt. Returns must be made within 10 days of the invoice date for credit. No credits will be issued after this period.

Bill the above order to my credit card:

Type (circle one): VISA MasterCard American Express Discover

Account # _____ Exp. Date _____

Signature (as it appears on your card) _____

Mail or fax the completed form to Product Support at Garmin International (see address and phone numbers on the copyright page of this guide). You can also order online at http://www.garmin.com or by contacting us using e-mail at: cartography@garmin.com. Photocopies of this form are acceptable.

(Cut Here)

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.

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