

KENWOOD

GPS NAVIGATION SYSTEM

KNA-G620T

GPS NAVIGATION INSTRUCTION MANUAL

Kenwood Corporation

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Icons Used in This Manual



Important precautions are described to prevent injuries, etc.



Special instructions, supplementary explanations, limitations, and reference pages are described.



Safety Precautions and Important Information

Read this information carefully before starting to operate the Kenwood Car Navigation System and follow the instructions in this manual. Neither Kenwood nor Garmin® shall be liable for problems or accidents resulting from failure to observe the instructions in this manual.

▲ WARNINGS

To prevent injury or fire, take the following precautions:

- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- Do not watch or fix your eyes on the unit's display when you are driving for any extended period.
- Mounting and wiring this product requires skills and experience. For safety's sake, leave the mounting and wiring work to professionals.

Failure to avoid the following potentially hazardous situations could result in an accident or collision resulting in death or serious injury.

When navigating, carefully compare information displayed on the navigation system to all available navigation sources, including information from street signs, visual sightings, and maps. For safety, always resolve any discrepancies or questions before continuing navigation.

Always operate the vehicle in a safe manner. Do not become distracted by the navigation system while driving, and always be fully aware of all driving conditions. Minimize the amount of time spent viewing the screen of the navigation system while driving, and use voice prompts when possible.

Do not enter destinations, change settings, or access any functions requiring prolonged use of the navigation system controls while driving. Stop your vehicle in a safe and legal manner before attempting such operations.

Keep the system volume at a low-enough level to be able to hear outside noises while driving. If you can no longer hear outside noises, you may be unable to react adequately to the traffic situation. This may cause accidents.

The navigation system will not display the correct current position of the vehicle the first time it is used after purchase, or if the vehicle battery is disconnected. GPS satellite signals will soon be received, however, and the correct position will be displayed.

Be careful of the ambient temperature. Using the navigation system at extreme temperatures can lead to malfunction or damage. Also note that the unit can be damaged by strong vibration, by metal objects, or by water getting inside the unit.

▲ CAUTIONS

Failure to avoid the following potentially hazardous situations may result in injury or property damage.

The navigation system is designed to provide you with route suggestions. It does not reflect road closures or road conditions, weather conditions, or other factors that may affect safety or timing while driving.

Use the navigation system only as a navigational aid. Do not attempt to use the navigation system for any purpose requiring precise measurement of direction, distance, location, or topography.

The Global Positioning System (GPS) is operated by the United States government, which is solely responsible for its accuracy and maintenance. The government system is subject to changes that could affect the accuracy and performance of all GPS equipment, including the navigation system. Although the navigation system is a precision navigation device, any navigation device can be misused or misinterpreted and, therefore, become unsafe.

Information on disposal of old electrical and electronic equipment (applicable for EU countries that have adopted separate waste collection systems)



Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste. Old electrical and electronic equipment should be recycled at a facility capable of handling these items and their waste by products. Contact your local authority for details in locating a recycle facility nearest to you. Proper recycling and waste disposal will help conserve resources while preventing detrimental effects on our health and the environment.

IMPORTANT INFORMATION

Vehicle Battery Preservation

This navigation system can be used when the ignition key is turned to ON or ACC. To preserve the battery, however, it should be used with the engine running whenever possible. Using the navigation system for a long time with the engine switched off can cause the battery to run down.

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Getting Started

The first time you use your Kenwood Navigation System, you need to set up your system. For complete audio system information, see the other Kenwood manuals. The Help menu provides additional information.

Manual Conventions

When you are instructed to “touch” something, use your finger to touch an item on the screen.

The small arrows (>) used in the text indicate that you should touch a series of items. For example, if you see “touch **Where To?** > **Favorites**” you should touch **Where To?**, and then touch **Favorites**.

Tips and Shortcuts

To quickly return to the Menu page, touch and hold .

Touch  and  to see more choices. Touch and hold these buttons to scroll faster.



- The screen shots shown in this manual may not exactly match the screens on your navigation system. The images used in this manual are intended for reference only.

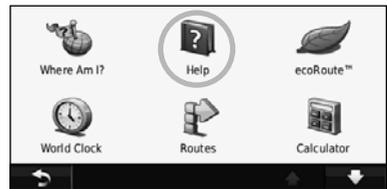


- After your KNA unit is installed and connected to your display unit, press the reset button on your display unit before using the KNA unit for the first time.
- Several screens may appear on your display unit before it recognizes your KNA unit.

Help When You Need It

Touch **Tools > Help** to get more information about using your navigation system. Touch a category to view information about a topic.

1 Touch Tools > Help.



2 To search the Help topics for a keyword, touch Search.



Find It and Go!

The Where To? page provides several different categories for you to use when searching for addresses, cities, and other locations. The detailed map loaded in your navigation system contains millions of points of interest, such as restaurants, hotels, and auto services.

Finding a Restaurant

1 Touch Where To?.



2 Select a category.



3 Select a subcategory.



4 Select a type.



5 Touch a place.

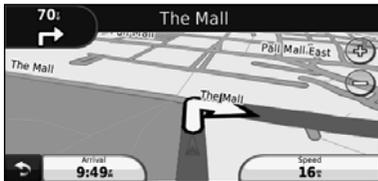


6 Touch Go!, or touch Press for More to see the Review page.



Following Your Route

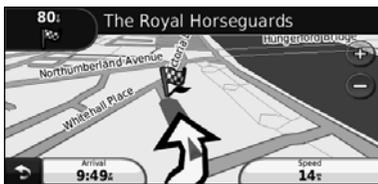
Your route is marked with a magenta line. As you travel, your navigation system guides you to your destination with voice prompts, arrows on the map, and directions at the top of the map. The upper-left corner indicates the distance to your next maneuver. If you depart from the original route, your navigation system recalculates the route and provides new directions.



Your route is marked with a highlighted line.



Follow the arrows.



A checked flag marks your destination.

Adding a Via Point

You can add a stop (Via Point) to your route. The navigation system gives you directions to the stop and to your final destination.

- 1 With a route active, touch  > **Where To?**.
- 2 Search for the extra stop.
- 3 Touch **Go!**.
- 4 Touch **Add As a Via Point** to add this stop before your destination.

If you want to add more than one stop to the route, edit the current route. See page 17.

Taking a Detour

If a road on your route is closed, you can take a detour.

- 1 With a route active, touch .
- 2 Touch **Detour**.

The navigation system attempts to get you back on your original route as quickly as possible. If the route you are currently taking is the only reasonable option, the navigation system might not calculate a detour.

Stopping the Route

- 1 With a route active, touch .
- 2 Touch **Stop**.

Where To?

The Where To? page provides several different categories you can use to search for locations.

Searching Near Another Location

Your navigation system automatically searches for places near your current location.

1 Touch Where To? > Near.

2 Select an option:

- **Where I Am Now**—search near your current location.
- **A Different City**—search near the city you enter.
- **A Recent Destination**—search near a recent destination.
- **A Favorite Destination**—search near a favorite destination.
- **My Current Route**—search along your route.
- **My Destination**—search near your current destination.

3 Touch OK.

Go! Page Options

Touch an item in the search results list to view the Go! page.



- 1 Touch to call this location, if a mobile phone with Bluetooth wireless technology is connected.
- 2 Touch to save this location to your Favorites.
- 3 Touch to create a turn-by-turn route to this location.
- 4 Touch to return to the previous page.



- The call functionality is not available on all models.

- 5 Touch **Press for more** to view more information about the location.



- 6 Touch to switch between a 3D (three-dimensional) map and a 2D (two-dimensional) map.
- 7 Touch to rotate the viewing angle in 3D view.

Finding an Address

The steps to find an address can vary depending on the maps that are loaded on your navigation system. Not all map data provides postal-code searching.

1 Touch Where To? > Address.

2 Touch Change State/Country, if necessary.

3 Touch Search All.

OR

Touch Spell City. Enter the city using the keyboard, and touch Done. Select the city.

4 Enter the number of the address, and touch Done.

5 Enter the street name, and touch Done.

6 Select the correct street in the list, if necessary.

7 Touch the address, if necessary.

Finding a Place by Spelling the Name

If you know the name of the location you are looking for, you can spell it using the on-screen keyboard. You can also enter letters contained in the name to narrow the search.

- 1 **Touch Where To? > Points of Interest > Spell Name.**
- 2 **Using the on-screen keyboard, enter letters in the name.**
- 3 **Touch Done.**

Using the On-Screen Keyboard

When an on-screen keyboard appears, touch a letter or a number to enter it.



- Touch  to add a space.
- Touch  and  to move the cursor.
- Touch  to delete the character, or touch and hold to delete the entire entry.
- Touch  to select words you have recently typed and selected.
- Touch **Mode** to change the keyboard language mode.
- Touch **&?%** to enter special characters.

Finding Places in a Different Area

You can search for locations in a different area, such as a different city or near your destination.

- 1 **From the subcategories list, touch Near.**
- 2 **Select one of the search options.**

Narrowing Your Search

To narrow your search, you can search near a different city.

- 1 **Touch Where To? > Near.**
- 2 **Touch A Different City.**
- 3 **Enter part of the name, and touch Done.**

Favorites

You can save all of your favorite places in Favorites. You can also save your home location in Favorites.

Saving Places You Find

- 1 After you have found a place you want to save, touch Save on the Go! page.

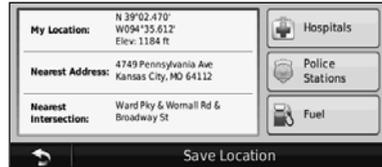


- 2 Touch OK. The place is saved in Favorites.



Saving Your Current Location

- 1 Touch View Map.
- 2 Touch  (vehicle icon).



- 3 Touch Save Location to save your current location.

Setting a Home Location

You can set a Home Location for the place you return to most often.

1 Touch Where To? > Go Home.

2 Select an option.

- **Enter My Address**—enter an address for the location using the on-screen keyboard.
- **Use My current location**—sets your current location as your Home Location.
- **Choose from Recently Found**—select a location from your recently found locations.

After you set your Home Location, touch **Where To? > Go Home.**

Finding Saved Places

1 Touch Where To?.

2 Touch Favorites.

3 Touch a category. Your saved locations are listed.

Editing Saved Places

1 Touch Where To? > Favorites.

2 Touch the location you want to edit.

3 Touch Press for More.

4 Touch Edit.

5 Touch the item you want to edit.

- **Change Name**—enter a new name for the location using the on-screen keyboard.
- **Change Map Symbol**—touch a new symbol.
- **Change Phone Number**—enter a phone number, and touch **Done**.
- **Change Categories**—create or change the category in which this location is saved.

Deleting a Favorite

1 Touch Tools > My Data.

2 Touch Delete Favorite(s).

3 Select the Favorite to delete.

4 Touch Delete.

The Main Pages

This section provides details about the Map Page, the Trip Computer, the Turn List, and the GPS Info Page.

Viewing the Map Page

Touch **View Map** to open the map. Touch an area of the map to see additional information, as shown below. The vehicle icon ▲ shows your current location.



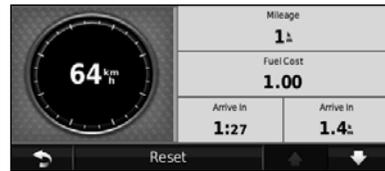
- 1 Distance to the next turn. Touch to view and hear next turn details. Lane assistance also displays in this area.
- 2 While navigating a route, touch the text bar to open the Turn List. See page 16.
- 3 Touch ⊕ to zoom in.
- 4 Touch ⊖ to zoom out.
- 5 Touch to change the data field.
- 6 Touch the **Speed** data field to open the Trip Computer.
- 7 Touch ▲ to view the Where Am I? page.



- A speed limit icon (35) may appear as you travel on major roadways. This icon displays the current speed limit of the roadway.

Trip Computer

The Trip Computer displays your current speed and provides helpful statistics about your trip. To view the Trip Computer, touch the **Speed** field on the Map page.

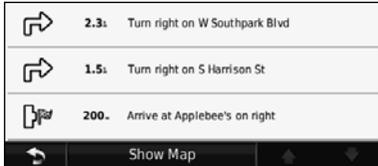


Resetting Trip Information

If you want accurate trip information, reset the trip information before beginning a trip. Touch **Reset** to reset the information on the Trip Computer page.

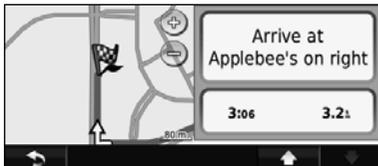
Turn List Page

When you are navigating a route, the Turn List page displays turn-by-turn instructions for your entire route and the distance between turns. Touch the text bar on the top of the Map page to view the Turn List page. Touch a turn on the list to view the Next Turn page for that turn. Touch **Show Map** to view the entire route on the map.



Next Turn Page

When you are navigating a route, 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, touch the upper-left corner of the Map page, or touch any turn on the Turn List page.



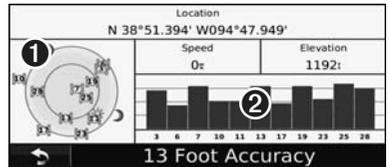
Lane Assist Page

When available, the Lane Assist page may display a view of the upcoming junction and in which lane you should be driving. To view the Lane Assist page, touch the upper-left corner of the Map page. You can also access the Lane Assist page from the Next Turn page.



GPS Info Page

From the Nav Menu page, touch  in the upper left corner to view the GPS Info page.



- ① Sky view
- ② Satellite signal-strength bars

The sky view shows the satellites you are receiving. The satellite signal-strength bars indicate the strength of each satellite you are receiving. A solid bar indicates that the GPS satellite is ready for use.

Creating and Editing Routes

This section describes how to create and customize your routes.

Creating a New Custom Route

- 1 Touch **Where To? (or Tools) > Routes > New**.
- 2 Touch **Add New Start Point**.
- 3 Find a location for your starting point, and touch **Select**.
- 4 Touch **Add New End Point**.
- 5 Find a location for your ending point, and touch **Select**.
- 6 Touch **+** to add another location to your route. Touch **-** to remove a location.
- 7 Touch **Next** to calculate your route and view it on the map. Touch **Save** to save your changes.

Editing Custom Routes

Touch **Where To? (or Tools) > Routes**.

- 1 Select the route you want to edit.
- 2 Touch **Edit**.
- 3 Touch the item to edit.
 - **Change Name**—enter a new name, and touch **Done**.
 - **Add or Remove Points**—add or remove points from the route.
 - **Manually Reorder Points**—change the order of points along your route.
 - **Optimally Reorder Points**—automatically order the points.
 - **Recalculate**—recalculates the route.
 - **Delete**—remove this route.Your changes are saved automatically when you exit any of the route edit pages.

Saving and Modifying the Active Route

- 1 Touch **Where To? (or Tools) > Routes**.
- 2 Touch **Active Route**.
- 3 Touch **Add or Remove Points**.
- 4 **Add, remove, or reorder the points**.
- 5 Touch **Next**.
- 6 Touch **Save**.

Navigating a Saved Route

From the Main page, touch **Where To? (or Tools) > Routes**. Touch the route you want to navigate, and touch **Go!**

Deleting All Saved Routes

Touch **Tools > My Data > Delete Selected Route(s) > Select All > Delete**.

Stopping Your Route

With a route active, touch  **Stop**.

Adding a Detour to a Route

If a road on your route is closed or congested with traffic, you can take a detour.

- 1 **With a route active on the Main Map, touch **.
- 2 Touch **Detour**.

The navigation system attempts to get you back on your original route as quickly as possible. If the route you are currently taking is the only reasonable option, the navigation system might not calculate a detour.

Using ecoRoute™

The ecoRoute feature calculates your vehicle fuel economy, carbon footprint, and the fuel price of navigating to a destination, and offers tools for improving fuel efficiency.

Setting up ecoRoute

Touch **Tools > ecoRoute**.

The data provided by the ecoRoute feature is only an estimate. The data is not actually read from your vehicle. To receive more-accurate fuel reports for your specific vehicle and driving habits, calibrate the fuel economy.

The first time you access the ecoRoute features, you will be asked to enter fuel and mileage information about your vehicle.

Viewing the Fuel Report

If you have entered your vehicle profile and the current fuel price, your navigation system calculates the average fuel economy for your vehicle, your carbon footprint, and the cost of the fuel consumed.



The fuel consumption data is based on estimates for speed and acceleration for an average vehicle.

Touch **Tools > ecoRoute > Fuel Report**.



- To ensure that fuel data is always recorded, keep your navigation system turned on while driving.

Calibrating the Fuel Economy

Calibrate the fuel economy to receive more-accurate fuel reports for your specific vehicle and driving habits. Calibrate when you fill up your fuel tank.

- 1 Calculate your miles per gallon or kilometers per liter (enter information based on prompt).**
- 2 Touch Tools > ecoRoute > Fuel Report > Calibrate.**
- 3 Touch **-** and **+** to enter the result from step 1.**
- 4 Touch OK.**

Adjusting the Fuel Price

Enter fuel price information to calculate the fuel cost of routes and to calculate the fuel reports.

- 1 Touch Tools > ecoRoute > Fuel Price.**
- 2 Enter the current fuel price.**
- 3 Touch Done.**

Taking the ecoChallenge

Touch **Tools > ecoRoute > ecoChallenge > Start**.

The ecoChallenge tool helps you maximize your fuel economy by scoring your driving habits. The higher your overall score for an ecoChallenge, the more fuel you could save.

Your overall score is the average of three scores:

- **Acceleration score**—gain points for gradual acceleration; lose points for rapid acceleration.
- **Deceleration score**—gain points for gradual braking; lose points for hard braking.
- **Speed score**—gain points for driving at the best speed for conserving fuel, which is 72–97 km/h (45–60 mph) for most vehicles.

Adjusting Your Vehicle Profile

Touch **Tools > ecoRoute > Vehicle Profile**.



- **Fuel Type**—select a fuel type.
- **City Fuel Economy**—enter the average city fuel economy for your vehicle.
- **Hwy Fuel Economy**—enter the average highway fuel economy for your vehicle.



- For best results, calibrate your fuel economy instead of adjusting the city and highway fuel economy here.

Viewing the Mileage Report

Mileage reports provide the distance, the time, the average fuel economy, and the fuel cost of navigating to a destination.

A mileage report is created for every route that you drive. If you stop a route on your navigation system, a mileage report is created for the distance you traveled.

1 Touch Tools > ecoRoute > Mileage Report.

2 Select a report.

Resetting ecoRoute Data

1 Touch Tools > ecoRoute.

2 Select the category you want to reset.

3 Touch Reset.

Calculating Routes that Use Less Fuel

1 Touch Settings > Navigation > Route Preference.

2 Select Less Fuel.

The Less Fuel route is calculated based on speed limit and acceleration data.

Traffic Information

Using the built-in FM traffic receiver, the navigation system can receive and use traffic information. When a traffic message is received, you can see the event on the map and change your route to avoid the traffic incident.

Understanding FM TMC Traffic

FM TMC traffic receivers receive traffic information that is broadcast over the FM Radio Data System. The FM TMC subscription activates automatically after your navigation system acquires satellite signals while receiving traffic signals from the service provider. You can add other FM TMC subscriptions at any time. Check the Garmin Web site at www.garmin.com/fmtraffic for other available services.



- The availability of FM TMC depends on your region and may require the purchase of a subscription.

Traffic in Your Area

When you are receiving traffic information, a traffic icon appears in the upper-left corner of the Map page. The traffic icon changes color to indicate the severity of traffic conditions on your route or on the road you are currently traveling.

Color	Description	Meaning
Green	Low severity	Traffic is flowing normally.
Yellow	Medium severity	Traffic is slightly congested.
Red	High severity	Traffic is heavily congested or stopped.
Gray	No data	Traffic data has not updated.

Traffic on Your Route

When calculating your route, the navigation system examines the current traffic and automatically optimizes the route for the fastest time, shortest distance, less fuel, or off road. If a severe traffic delay occurs on your route while you are navigating, the navigation system automatically recalculates the route. You

might still be routed through traffic if no better alternative routes exist.

If a non-severe traffic delay occurs on your route, the traffic icon shows how much time the delay has added to your route. This time is already included in your estimated arrival time.

To manually avoid traffic on your route:

- 1 **On the Map page, touch the traffic icon.**
- 2 **Touch Traffic On Route.**
- 3 **Touch the arrows to view other traffic delays on your route, if necessary.**
- 4 **Touch Avoid to avoid the traffic delay.**

Viewing the Traffic Map

The traffic map shows color-coded traffic flow and delays on nearby roads.

- 1 **On the Map page, touch the traffic icon.**
- 2 **Touch Show Traffic Map to view the traffic incidents on a map.**



- To return to the normal map from the traffic map, touch the traffic icon, and touch **Show Normal Map**.

Viewing Traffic Delays

- 1 **On the Map page, touch the traffic icon.**
- 2 **Touch Traffic Search to view a list of traffic delays.**
- 3 **Touch an item in the list to view the delay on a map and details about the delay. If there is more than one delay, touch the arrows to view the additional delays.**

Customizing the Settings

This section describes how to customize the settings of your GPS navigation system.

Customizing the Navigation System

- 1 **Touch Settings.**
- 2 **Touch the setting you want to change.**
- 3 **Touch the button below the setting name to change it.**

Changing the System Settings

Touch **Settings** > **System**.

- **GPS Simulator**—enable the simulator to turn off the GPS mode and simulate navigation.
- **Units**—change the units of measure.
- **Keyboard Layout**—select a keyboard layout.
- **About**—display the software version number, the unit number, and the unit ID number.
- **Restore**—restore the original system settings.

Changing the Map Settings

Touch **Settings** > **Map**.

- **Map Detail**—adjust the amount of detail shown on the map. More detail may cause the map to redraw slower.
- **Map View**—select a map perspective.
- **Vehicle**—touch **Change** to change the icon used to display your position on the map. Touch the icon you want to use, and touch **Done**.
- **Trip Log**—show or hide the log of your travels. To clear your trip log, touch **Tools** > **My Data** > **Clear Trip Log**.
- **Map Data Layout**—changes the layout of the main map.
- **Map Info**—view the maps loaded on your navigation system and the map versions. Touch a map to enable (check mark) or disable (no check mark) that map.
- **Restore**—restore the original map settings.

Changing the Navigation Settings

Touch **Settings** > **Navigation**.

- **Route Preference**—select a preference for calculating your route.
- **Avoidances**—select the road types you want to avoid or you would prefer to use on your routes.
- **Voice Prompts**—turn voice prompts on or off.
- **Restore**—restore the original navigation settings.

Adjusting the Display Settings

Touch **Settings** > **Display**.

- **Color Mode**—select **Day** for a light background, **Night** for a dark background, or **Auto** to automatically switch between the two.
- **Restore**—restore the original display settings.

Updating the Time Settings

Touch **Settings** > **Time**.

- **Time Format**—select a 12-hour, 24-hour, or UTC time format.
- **Current Time**—select **Automatic** to update the time automatically. When Automatic is not selected, you can adjust the time in 15-minute increments.
- **Restore**—restore the original time settings.

Setting the Languages

Touch **Settings** > **Language**.

- **Voice Language**—select a voice.
- **Text Language**—select a text language.
- **Keyboard**—select the keyboard for your language. You can also change the keyboard language mode from any keyboard by touching the **Mode** button.
- **Restore**—restore the original languages.

Adding Security

Touch **Settings** > **Security**.

- **Safe Mode**—turn safe mode on or off. When your vehicle is moving, safe mode disables all functions that require significant operator attention and could become a distraction while driving.
- **Restore**—restore the original security settings.

Adjusting the Volume

- 1 **Touch Volume.**
 - 2 **Adjust the volume up or down.**
 - 3 **Touch OK.**
- Touch **Mute** to mute the audio output.

Appendix

This appendix provides additional information about your navigation system, such as how to update the software and map data.

Updating the Software

To update the navigation system software, you must have a Secure Digital (SD™) card, an SD card reader, and an Internet connection.



- The unit may restart when you insert an SD card.

- 1 Go to www.garmin.com/Kenwood. Select **Software Updates > Download**.**
- 2 Read and accept the terms of the Software License Agreement.**
- 3 Follow the instructions on the Web site to complete the installation of the update software.**

Updating the Map Data

The navigation system will provide periodic notification at startup when the preloaded maps are considered out of date. You can purchase an SD card of updated map data from Garmin or ask your Kenwood dealer or Kenwood service center for details.

- 1 Go to www.garmin.com/Kenwood. Select **Order Map Updates**, and follow the **Web site checkout procedure**.**
- 2 After you receive your new map data SD card, insert the card into your unit to use the maps. The navigation system will automatically recognize and use the maps on the SD card.**



- The unit may restart when you insert an SD card.

Custom POIs (Points of Interest)

You can manually load custom points of interest (POI) databases, available from various companies on the Internet. Some custom POI databases contain alert information for points such as safety cameras and school zones. The navigation system can notify you when you approach one of these points.

⚠ CAUTION

Garmin is not responsible for the consequences of using a custom POI database, or for the accuracy of the safety camera or other custom POI database.

After downloading your POI database, use the Garmin POI Loader to install the POIs onto an SD card. Use the SD card to load the POIs. The POI Loader is available at www.garmin.com/products/poiloader. Refer to the POI Loader Help file for more information; click **Help** to open the Help file.



- The unit may restart when you insert an SD card.
- Each time you load custom POIs to the navigation system, any other custom POIs already saved in the system will be overwritten.

Finding Custom POIs

To view a list of the custom POIs loaded in your navigation system, touch **Where To?** > **Extras** > **Custom POIs**.

Deleting Custom POIs

- 1 To delete all custom POIs from your navigation system, touch Tools > My Data > Delete Custom POIs.**
- 2 Touch Yes to confirm.**

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/Kenwood.



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