

3. Click **Start – Control Panel-Add or Remove Programs** on the Windows PC (2000, XP, Vista or 7) that will be used to perform the installation, and determine if a Garmin USB Driver entry is present. If not, the drivers must be installed on the PC before proceeding. Garmin USB drivers can be obtained from these sources.

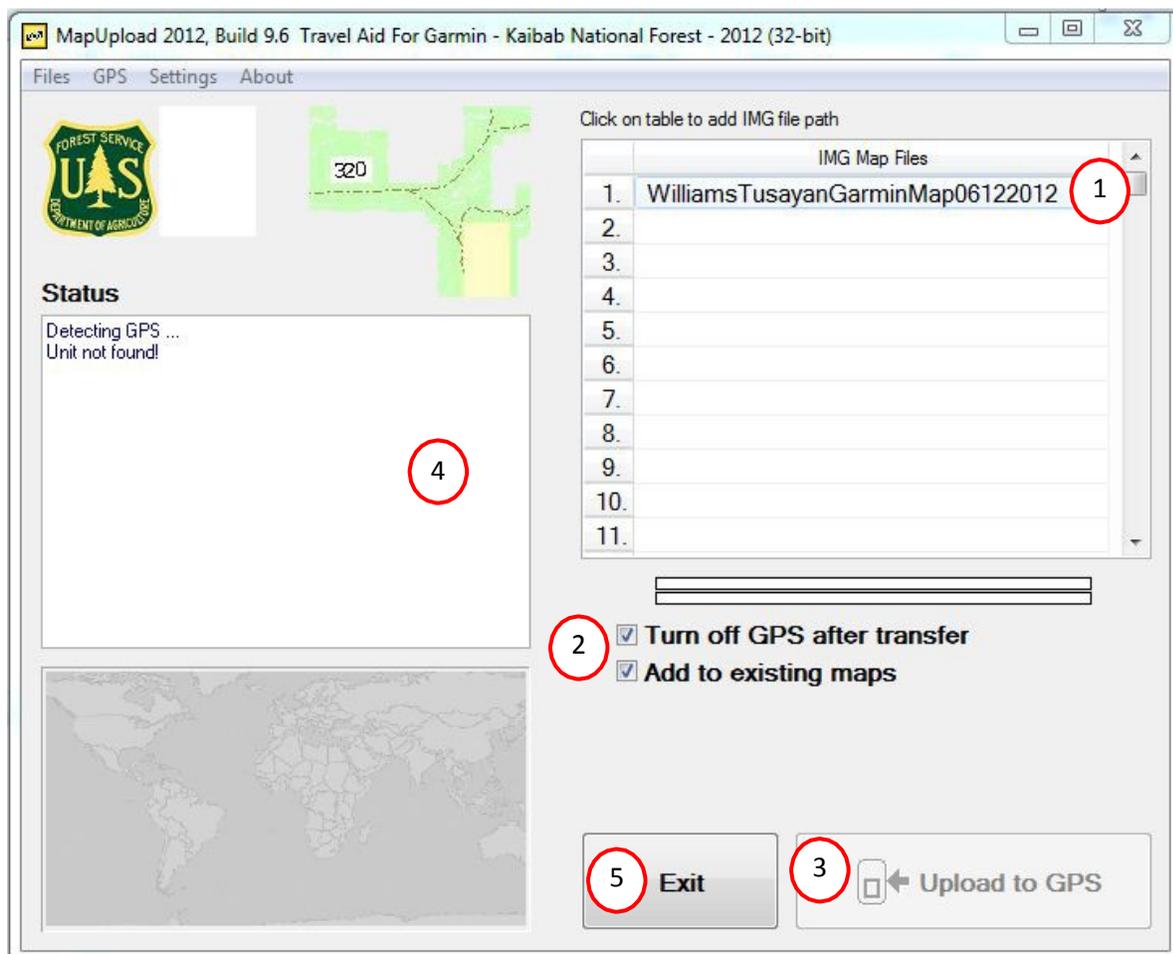
- CD Shipped with a new Garmin GPS receiver,
- Garmin Mapsource or Base Camp software CD or installation package, or
- Garmin Website at http://www8.garmin.com/support/download_details.jsp?id=591.

4. **Save the Garmin Installer package** file (~3.55 MB) to the PC from this link.

- <http://prdp2fs.ess.usda.gov/detail/kaibab/maps-pubs/?cid=stelprdb5392529>

5. Turn on the Garmin GPS receiver, and connect it to the PC with its USB cable.

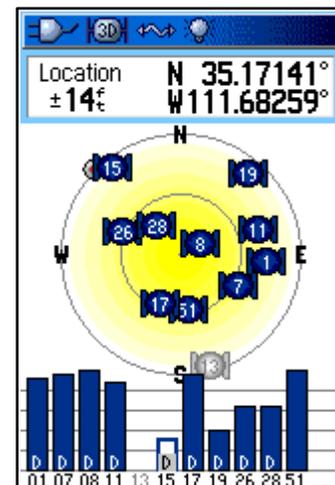
6. Double-click the **Garmin Installer package** file, and note, or carry out, the numbered items described below. The installer's appearance may vary somewhat.



- **Item 1** – The Travel Aid’s map is already pre-loaded. No further action is required.
- **Item 2** – Check this box to merge Travel Aid map content with the receiver’s existing supplemental maps. **If this box is not checked, existing supplemental map(s) in the gmapsupp.img file will be permanently over-written! The default base map and City Navigator map (gmapbmap.img and gmapprom.img) are not affected.** An alternative would be to install the Travel Aid on a separate micro-SD card, and swap cards as needed. Merging large supplemental mapsets is very time-consuming.
- **Item 3** – Click the **Upload to GPS** button to install the Travel Aid’s map content.
- **Item 4** - Note the status messages, and wait for the “Transfer complete” message before proceeding. Do not operate the GPS receiver during the Travel Aid’s installation. Travel Aid map content totals ~2.6 MB.
- **Item 5** – Click **Exit** to complete the Travel Aid’s installation.

Use the Travel Aid – The following topics describe general procedures for operation and use of the Travel Aid.

GPS session - Turn the GPS receiver on outdoors, and wait for it to establish a position fix. Receivers vary, but most provide a skyplot view, as illustrated at right. A minimum of four satellites are required to establish a reliable position. In this example, a “3-D” icon is also displayed, indicating a good position fix.



Map page - Display the Map page by cycling through the receiver’s page sequence, or by opening it from the receiver’s page menu.

Feature display – Refer to **Appendix B** to view the symbols used to represent the Travel Aid’s features.

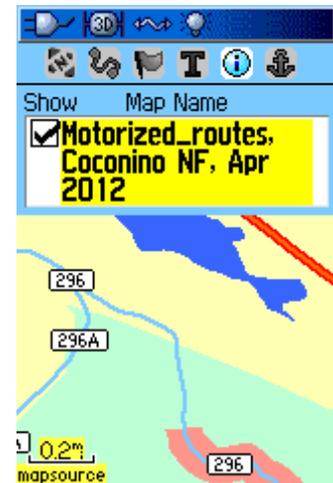
If it is not already so, change the map’s **Detail** setting to “Most” in the receiver’s map setup section. The map’s color scheme was designed for daytime use, so it is recommended that users manually change their receiver’s **Display Mode** to the “Daytime” setting.

Position and direction of travel - The receiver’s current position will be indicated by an arrowhead pointing in the direction of travel.

Feature identification – Use the receiver’s Map Pointer to identify unlabeled features.

Zoom levels – Different feature types will appear at different zoom levels. When zooming in, for instance, roads designated for highway-legal vehicles will be visible prior to the appearance of roads designated for all vehicles. The map may be viewed at any convenient zoom level, but the 0.2-mile through 0.5-mile zoom levels are typically preferred for general use.

Hide the map – Users can hide the Travel Aid’s map by un-checking its “Show” entry in the receiver’s Map Setup section, as at right.



Travel Aid limitations – Unfortunately, the Travel Aid is not a perfect solution. The following topics describe some of its limitations.

Map visibility – Certain lighting conditions, and limited screen size/resolution, can impair map visibility. Zoom in, show “most” detail, and increase screen backlight to improve map visibility.

Feature display - Different Garmin GPS receiver models display feature symbols differently, and at different zoom levels, depending upon their version of installed firmware.

Road and trail labels – Newer model receivers display fewer labels, and drop labels altogether as they zoom in. Use the Map Pointer to identify unlabeled features.

Roads and trails are not “routable” – Unlike commercial map content for the Garmin Nüvi, Tom Tom, Magellan RoadMate, and so on, the Travel Aid’s roads and trails are not “routable”.

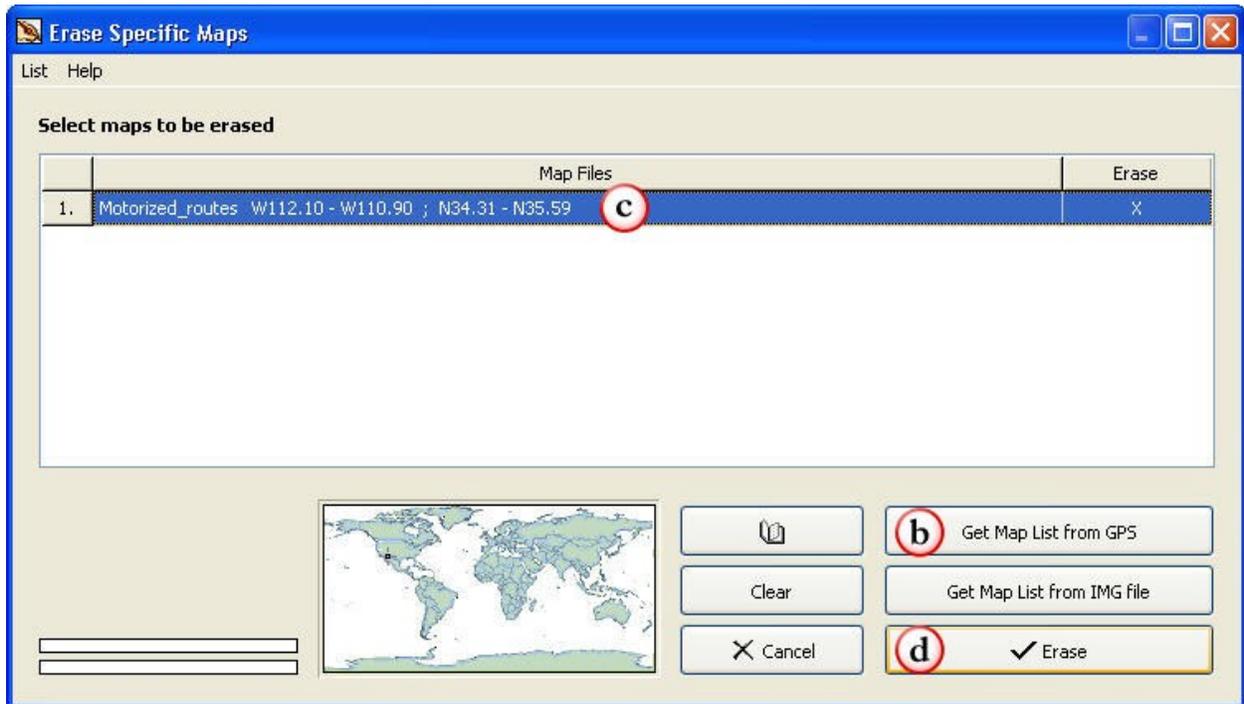
Windows compatibility only – The Travel Aid’s installer package is compatible only with PCs running Windows 2000, Windows XP, Windows Vista, or Windows 7.

Pink or green screen – See **Appendix C** if a pink or green screen appears instead of the map.

Un-install the Travel Aid – Unfortunately, the Travel Aid’s installer package does not include an un-install utility. Follow these steps to remove the Travel Aid from a Garmin GPS receiver.

1. Download and install the Mapwel Demo software (<http://www.mapwel.net/down.htm>) on a Windows PC.
2. Turn on the Garmin GPS receiver, and connect it to the PC with its USB cable.

3. Start the Mapwel Demo software, click **No** when prompted to register, and:
 - a. In Mapwel, click **GPS – Erase Specific Maps**,
 - b. Click **Get Map List From GPS**,
 - c. Select the **Motorized_routes** map, and
 - d. Click **Erase**.



Appendix A – List of supported Garmin GPS Receivers

The Travel Aid should be installed only on Garmin GPS receivers that are supported by the Travel Aid’s development software, as listed below.

Unfortunately, “supported” is a relative term, as these receivers may display feature symbols differently, and at different zoom levels, depending upon their version of installed firmware.

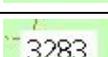
Although technically supported, **receivers having a grey-scale (non-color) screen are not suitable for Travel Aid use.**

Garmin® Nuvifone M20™
Garmin® Mobile XT™
Garmin® Aera™
Garmin® Oregon™
Garmin® Dakota™
Garmin® Colorado™
Garmin® Montana™
Garmin® Astro™
Garmin® Nuvi and Zumo (all models)™
Garmin® Edge 605, 705, 800™
Garmin® iQue M3, M4, M5™
Garmin® eTrex 20, 30™
Garmin® eTrex Summit HC™
Garmin® eTrex Venture Cx, HC™
Garmin® eTrex Legend C, Cx, HCx™
Garmin® eTrex Vista, C, Cx, HCx™
Garmin® Rino 120, 130, 520, 530, 520HCx, 530HCx™
Garmin® GPS V™
Garmin® GPSMAP 60C, 60CS, 60Cx, 60CSx, 62, 62s, 62st™
Garmin® GPSMAP 76, 76S, 76C, 76CS, 76Cx, 76CSx, 78, 78s, 78sc™
Garmin® GPSMAP 176, 176C, 276C, 376C, 378, 478C™
Garmin® GPSMAP 96, 96C, 196, 296, 396, 496™
Garmin® GPSMAP 620 - only routing maps in automotive mode™
Garmin® Quest, Quest 2™
Garmin® Street Pilot i2, i3, i5™
Garmin® Street Pilot c320, c330, c340™
Garmin® Street Pilot c530, c550, 580™
Garmin® Street Pilot 2610, 2620, 2650, 2660™

Appendix B – Travel Aid Feature Legend

Unfortunately, different Garmin GPS receiver models may display feature symbols differently, and at different zoom levels, depending upon their version of installed firmware. This table displays the variations likely to be observed between older and newer Garmin GPS receiver models.

In addition to many others, older receivers include the GPSMap 60C and 76C series. Newer receivers include the Oregon, Montana, GPSMap 62, and GPSMap 78 series.

Type Of Feature	
Highways, US, State	
Road open to highway-legal vehicles only	
Other Public Roads	
Road Open to All	
Road sign	
Campground	
Information site	
Wilderness area	
Water body	
Non-National Forest land	
National Forest land	

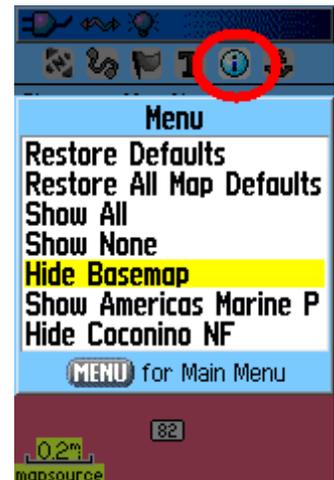
Appendix C – Solution for the Travel Aid appearing as a solid pink or green screen

Issue - Some Garmin configurations may display a solid pink or green screen instead of the Travel Aid's map

Unfortunately, the unruly variations in Garmin firmware and filing structure make this solution something of a hit-or-miss proposition, and results are not always totally satisfactory.

Solution for older (non-GPX-based) receivers – Hide the receiver's built-in base map. Receiver firmware varies, but equivalent functionality should be available for most models. The solution described here, and illustrated at right, is based on a GPSMap 76CSx.

1. Press **Page** until the receiver's Map page is displayed.
2. Press **Menu**, select **Setup Map**, select the **Information** tab (right), and press **Menu** again.
3. Select **Hide Basemap** (right), and press **Enter**.



Solution for newer (GPX-based) receivers – Disable the receiver’s built-in base map by renaming its file. **Never rename or delete the `gmaptz.img` file or the `gmapprom.img` file!**

1. Connect the receiver to a PC with a USB cable. Then browse to the device’s **Garmin** folder or **Map** folder, and rename `gmapbmap.img` to `gmapbmap.img.disabled`.

2. In some models, the `gmapbmap.img` file resides in a hidden folder named `.System`. In this event, it will be necessary to use Windows Explorer on the PC to temporarily make that folder visible by showing hidden files and folders, and un-hiding protected operating system files, as illustrated at right. To do so in Windows Explorer, click

Tools – Folder Options..., and then click the **View** tab.

The result of the renaming operation is shown at right.

Re-hide protected operating system files once renaming is complete.

3. If desired, the base map file may be re-enabled at a later date by renaming it back to `gmapbmap.img`.

Doing so will result in the reappearance of the pink or green screen.

