



Navigating to Waypoints with the GPSMap 78

Abstract

This guide outlines steps to navigate to Waypoints using the Garmin GPSMap 78 units. It may be used to return to a known point while in the field, such as your vehicle, or to navigate to data needing field verification or locating that has been uploaded from a GIS system.

Steps: Press Find – Select Waypoints – Select a desired Waypoint – Press Go – Press Page until the Compass screen is available – Use the Compass to navigate to the destination

Details

Startup

Before starting data collection, the user should activate the unit, confirm settings, and acquire satellites.

1. While outdoors, turn on the GPS unit and acquire satellites. This may take a few minutes. While acquiring satellites, the user can confirm the following settings under the *Setup* menus:

System > GPS: WAAS/EGNOS

Position Format > Position Format: UTM UPS (or hddd.ddddd°)

Position Format > Map Datum: WGS84

Map > Map Orientation: North Up

Display > Backlight Timeout: 1 minute

Display > Battery Save: On

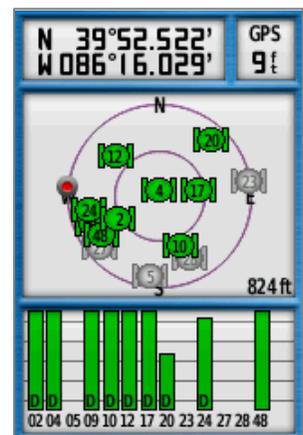
Tracks > Track Log: Do Not Record

Routing > Guidance Method: Off Road

Routing > Lock On Road: No

2. Waypoints can be collected while navigating, but it is not recommended because it can complicate interaction with the unit, particularly on the *Map* screen. Make sure the unit is currently not navigating to any points by **pressing** the **Find** button. If the unit is navigating to anything, select **Stop Navigation** on the screen that appears. If the unit is not navigating to anything, then a list of feature types for navigation appears instead and the can use the **Page** button to proceed to the Main Menu again.
3. Once all settings on the unit are adjusted or confirmed, the user should view the *Satellites* screen by using **Page** to go to the Main Menu and then select the **Satellite** menu.

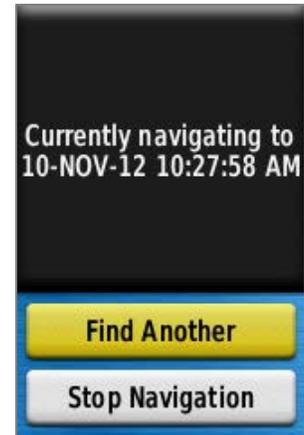
4. While on the *Satellites* screen, a skyplot of satellites should be drawn and any satellites that are providing signal to the unit should be green with a corresponding green bar on the bar chart beneath. Several satellites (more than five) should be locked in by now and the screen should display coordinates and a GPS Accuracy value at the top. If the unit is still searching for satellites, wait until it successfully locks onto enough satellites to provide a location and accuracy readout before starting data collection.
5. Once the GPS accuracy is under 15 feet, it is ready for use and the user can press the **Page** button to go to the desired screen for work. If you are having trouble getting accuracy down to 15 feet or less, try the following:
 - Move away from vehicles or trees, if possible.
 - Make sure the unit's GPS mode is set to *WAAS/EGNOS*.





Navigating to Waypoints

1. Press the **Find** button.
2. If the unit is navigating, it will list the feature it currently has locked for navigation and provide options to stop navigating or choose a different feature. If the desired feature is already locked for navigation, exit this screen and skip to step #7.

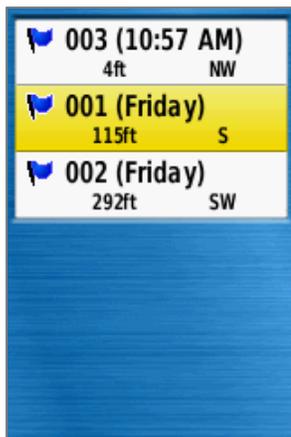


3. If the unit is already navigating to a feature which you do not want, **select Find Another** and then **select Waypoints** from the list of feature types. If the unit is not already navigating, **select Waypoints** from the list of feature types.





4. **Select** the desired feature for navigation. For example, select the desired waypoint from the list of waypoints.
5. **Press Go**.
6. If a screen appears that prompts you if you want to simulate driving the route (demo mode typically), select No.
7. Use the Map and compass pages to navigate to the point. Use the **Page** button to cycle between them, if need be.



8. The compass arrow will point directly to the selected feature. Follow the arrow indicator on the compass to proceed to the desired feature.
9. As you near the feature a message will be displayed that you are arriving at the location of the feature. This message could appear as far as 75 ft. or more from the feature. Dismiss the arrival message and return to the compass.
10. Continue to follow the compass arrow until the distance to the feature is under 5 ft.
11. **Press Find** and then **select Stop Navigation** to stop navigating. Alternately, you could select another feature to continue navigating elsewhere.

