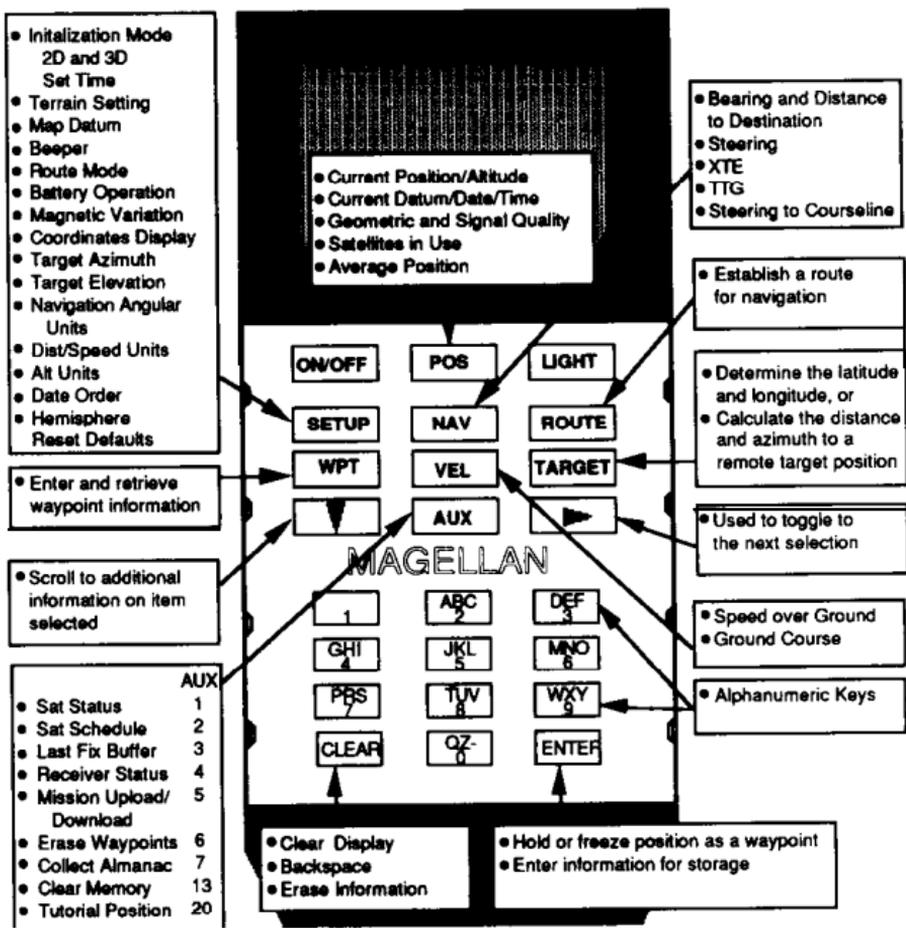


# Magellan GPS NAV 1000M™

## Field Card

### THE KEYPAD

The unit's keyboard has 12 function keys and an alphanumeric keypad.



READ USER GUIDE COMPLETELY TO INSURE PROPER AND SAFE USE OF THE **MAGELLAN** GPS NAV 1000M™.



THIS SYMBOL IS USED FOR IMPORTANT SAFETY INFORMATION. WHEN YOU SEE THIS SAFETY SYMBOL, CAREFULLY READ AND FOLLOW THE MESSAGE.

## INITIALIZING THE UNIT

Use the SETUP key to **initialize** the unit before attempting to take a position.

- Enter your approximate position ( $\pm 300$  miles).
- **Initialize** the time in Universal Coordinated Time (UTC), also called GMT.

▲ The recommended mode for land use is 3D. In 2D mode, best accuracies are obtained when the correct attitude is entered ( $\pm 5$  meters).

NOTE: **If you have moved more than 300 miles since your last position fix, reinitialize position using the SETUP key.**

## COLLECTING AN ALMANAC

If during the start up the NAV 1000M instructs you to collect an Almanac, connect the unit to external power (if possible) and press the POS key. An Almanac contains information which locates GPS satellites in the sky; the NAV 1000M consults its Almanac before looking for the GPS satellites it will use for the position fix. The information can be collected from any one satellite in the GPS constellation. Once the NAV 1000M locates a satellite, this process will take about 13 minutes.

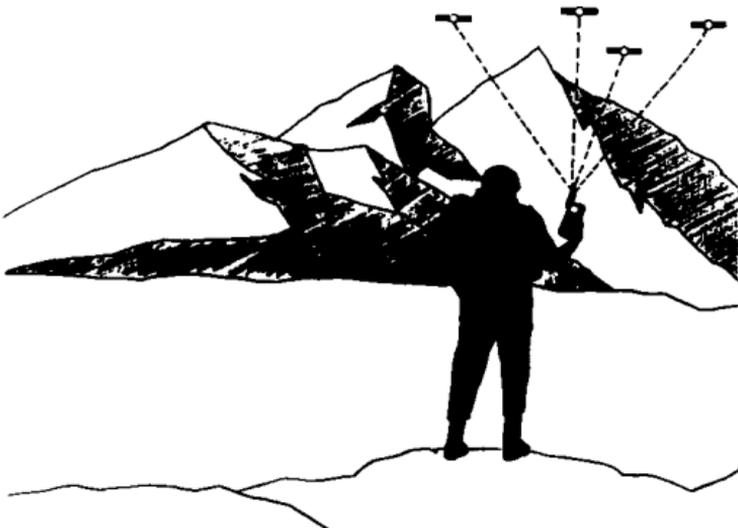
AUX 7 can also be used to collect an Almanac or to refresh an old one.

NOTE: To **conserve the alkaline batteries, external power is recommended for performing this function.**

## OBTAINING A POSITION FIX

1. In hand-held operation, turn the antenna directly upward, hold the unit at eye-level, with an unobstructed view of the sky in all directions.
2. Press the ON key and wait until you see the ready indicator.

NOTE: **The antenna must have an unobstructed view of the sky.**



3. Press the POS key. The time to obtain your first fix will be roughly 2 1/2 minutes in 2D and 3 1/2 minutes in 3D depending on the distance and time from the last position fix, and other factors.
4. When using the exterior antenna, make certain the units attached antenna is folded downward within the shield of the quick-release **mcunt** and that the unit is connected to power.

### Averaged Positions

You may obtain averaged positions by pressing the RIGHT ARROW key when you are on the position (**POS**) screen.

**NOTE:** You must be taking **fixes**. After **999 fixes** are averaged together, the unit will start the process over.

Press the clear key while on the averaging screen to restart the averaging process.

 **WARNING:** Do not use the position fix if this warning symbol appears and the  $GQ \leq 3$ .

## WAYPOINTS

To view, press WPT and RIGHT ARROW.

To **save** a position fix, press ENTER while viewing any position.

To enter a waypoint, press WPT and ENTER to begin data entry.

To rename, select **waypoint** and press ENTER.

To **erase**, select **waypoint** and press CLEAR.

To **erase** all waypoints, press AUX 6.

**NOTE:** Keep a written record of all waypoints.

### TARGET

The target function will let you calculate the coordinates for a remote target position (given an azimuth and distance), or the azimuth and distance to a target (given a position). Press the **TARGET** key, the first screen will let you select between calculating a position or a range and azimuth. Select by pressing the RIGHT ARROW key. Press the DOWN ARROW key when you are done; the unit will then ask you to enter the pertinent information.

#### For Position . . .

If you select position, the unit will ask where you would like to calculate from. You may select from your waypoints or last fix or averaged position. Most likely you will use your lastfx position. Enter your range, azimuth, and elevation angle to your target. The unit will calculate the targets position.

#### For Range and Azimuth

If you select range and azimuth, the NAV **1000M** unit will ask where you want to calculate from (lastfx, avg, and waypoints) and where you want to calculate to (waypoints). The unit will then calculate the distance and azimuth to the target.

## SINGLE FIX OPERATION

You may run the unit in single fix operation to help conserve battery power. In single fix operation the NAV **1000M** is designed to cycle off if you press no key for 120 seconds, only take one fix when you push the POS key and no velocity related information is available. You may access single fix operation under battery operation under the SETUP key.

## LOW BATTERY WARNINGS



In hand-held battery operation, the Magellan GPS NAV 1000M™ will warn you when the batteries are running low. When you see the battery symbol on the display, have a loaded battery clip ready. When you see the second warning – “Replace Batteries or Lose Data” – change the battery clip.

## OPENING THE BATTERY DOOR

Remove the back cover by pulling downward on the compartment door. After removing the battery clip, you have two minutes to exchange clips before losing waypoints and other stored information. Place the clip in the holder with the open side (batteries showing) facing up. Before replacing the cover, use a soft cloth to remove all dirt and sand from the sealing gasket. Slide the cover back into place, applying pressure the last 1/2 inch.



## TROUBLE SHOOTING

### Sats Not Found

- Make sure the antenna (on unit or exterior) is vertical and has a clear view of the sky.
- Check the initialization. The unit should be initialized within 300 miles of your position with the correct date and time in Universal Time (UTC).
- Wait 10 minutes and try again. Under some conditions, the unit may not “see” satellites which are very close to the horizon.

### More Satellites Needed

- Check for satellite availability by pressing the AUX 1, Sat Status key, and resetting any satellites you may have turned off with this function.
- Try 2D mode if three satellites are available, and if you know your altitude.

### Searching the Sky

- For hand-held, battery operation, make sure the unit is free from obstructions.
- Press SETUP to check the initialization position, date and time.

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