

GPS Blazer12

CRMP

BEARING  
063

DISTANCE  
417 m

BEARING  
085

SPEED  
39 MPH



MAGELLAN

ENTER

NAV

GOTO

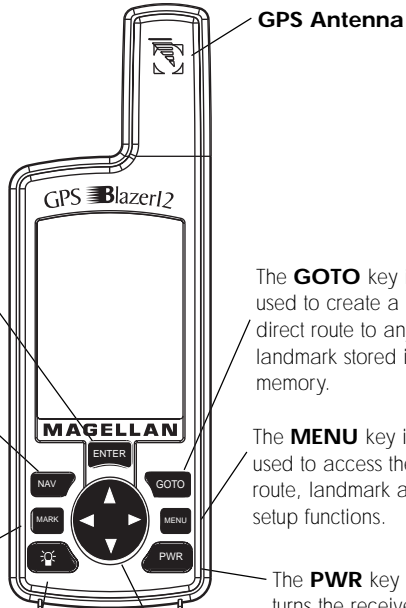
MARK

MEMO

PWR



# Magellan Blazer12



The **ENTER** key confirms data entries or menu selections.

The **NAV** key accesses the Position and Navigation screens.

The **MARK** key is used to create landmarks and store the current position.

The **LIGHT** key turns the light on and off.

The **GOTO** key is used to create a direct route to any landmark stored in memory.

The **MENU** key is used to access the route, landmark and setup functions.

The **PWR** key turns the receiver on and off.

The **ARROW** pad is used to enter landmark names, and scroll through the series of screens and menu selections.

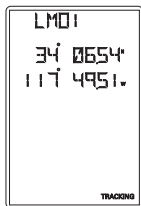
# Basic Operation

## Saving a Position Fix

Position fixes can be saved in memory for use later when you want to return to that position. Saved position fixes are referred to as landmarks or LMK.

To save (*mark*) your current position press **MARK**.

**Receiver-Generated Name:** The GPS Blazer12 prompts you to enter a name or accept the receiver-generated name for this landmark. To accept the receiver-generated name (LM01 - LM99), press **ENTER**.



To quickly save a position fix, press **MARK** **MARK**.

**User-Created Name:** To create a name (up to four characters), use the UP/DOWN arrows to change the character and the LEFT/RIGHT arrows to move the cursor to the left or right respectively. After you have input the desired landmark name press **ENTER**.

Press **ENTER** to accept the current latitude and press **ENTER** again to accept the current longitude.

**Shortcut:** Press **MARK** at anytime while viewing this screen to quickly save the position.

## Creating a Landmark

To create a landmark at a location which is not your current position, use the same procedure as saving a position with the additional step of inputting different latitude/longitude coordinates.

To create a landmark press **MARK**.

The GPS Blazer12 prompts you to enter a name or accept the receiver-generated name for this landmark. When the desired name is displayed at the top of the screen press

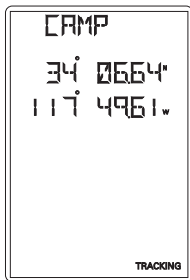
**ENTER**.

Use the ARROW pad to change the latitude and press **ENTER** to accept.

Use the ARROW pad to change the longitude and press **ENTER** to accept.

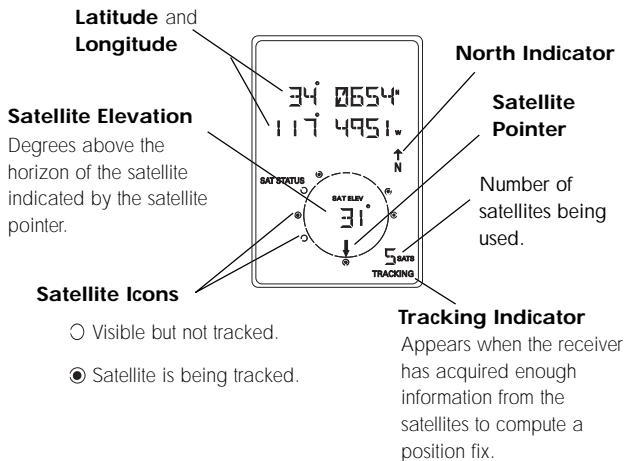
The newly created landmark is stored in memory and you are returned to the screen that was displayed when you pressed the MARK key.

**Shortcut:** Press **MARK** at anytime while viewing this screen to quickly save the position.



## Viewing the *POSITION* Screen

The *POSITION* screen displays the coordinates for your last computed position and information about any satellites that are visible. It can be accessed by pressing the **NAV** key.

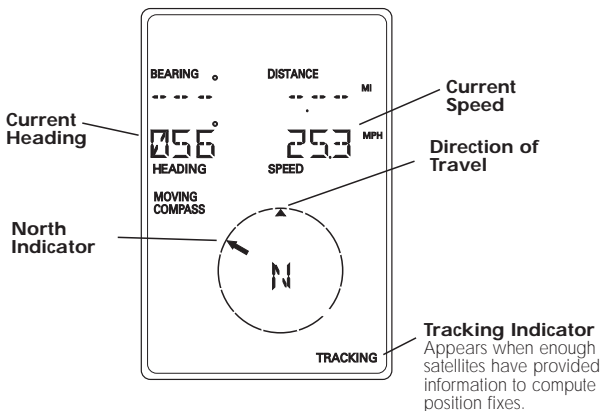


You may sometimes notice that the number of satellites being tracked differs from the number of satellites being displayed graphically. This is due to more than one satellite being tracked in the same general area.

## Viewing the Navigation Screens

**Without an Active Route.** Without an active route the navigation screen displays your heading and the speed at which you are traveling. The lower portion of the screen displays a moving compass. The triangle at the top of the compass points in the direction you are traveling and the arrow points to north.

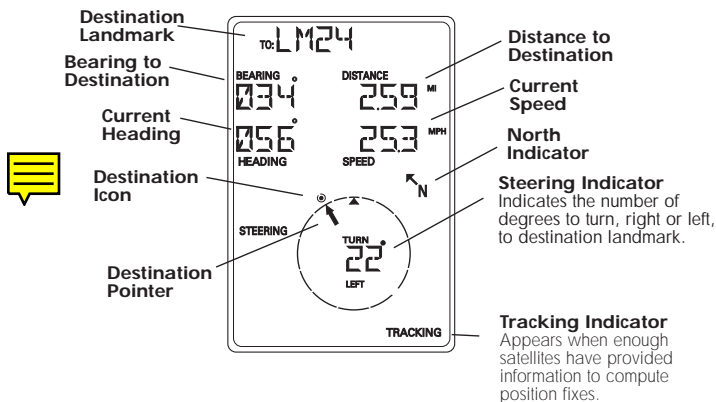
### Navigation Screen without an Active Route (Moving Compass)



The navigation screens display your speed of travel. In order for the North Indicator to be valid and the speed to be displayed, *you must be moving at a speed greater than 2 miles per hour.*

**With an Active Route.** When you have an active route the navigation screen still displays your heading and speed but also includes the bearing and distance to your destination. The moving compass is then replaced with steering information. You can use the graphical representation or the steering indicator to assist in directing you towards your final destination.

### Navigation Screen with an Active Route (Steering)



In the screen above you are traveling with a heading of  $56^\circ$  while your destination bearing is  $34^\circ$ . This would indicate that you need to turn left  $22^\circ$  to be on a straight line to your destination. The circle and arrow display the same information but in a visual manner. The triangle points in the direction you are traveling and the arrow points towards your destination.

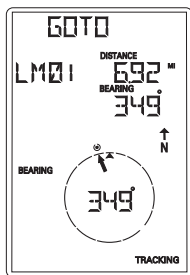
## Creating a GOTO Route

The simplest form of a route is a one-leg route called a GOTO route (you are GOing TO a destination). This is routing you from your current position to a landmark stored in memory. All that is required to create a GOTO route is that you have saved a landmark indicating the location of your destination.

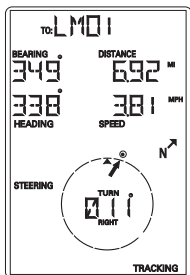
### To create (activate) a GOTO Route:

From any screen, press **GOTO**. The *GOTO* screen appears.

To select a different landmark, use the LEFT/RIGHT ARROWS until the desired destination landmark is displayed.



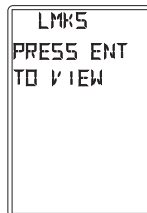
Press **ENTER** or **GOTO**. The display returns to the Navigation screen showing the name of the GOTO destination at the top of the screen.



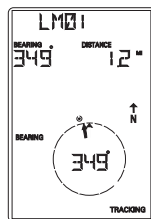
# Working with Landmarks

## Viewing a Landmark

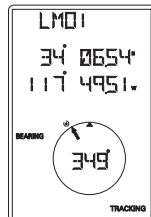
To view a stored landmark press **MENU** until LMKS appears at the top of the screen.



Press **ENTER**. The *BEARING/DISTANCE* screen for the first landmark in the receiver's memory is displayed with the bearing and distance from the last computed position fix to that landmark. To select a different landmark, use the LEFT/RIGHT arrows until the name of the landmark you wish to view is at the top of the screen.

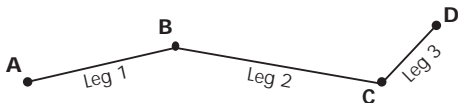


To view the *POSITION* screen of the selected landmark, press the UP ARROW.



## Working with Routes

The route function allows you to link a series of landmarks and travel, point by point, to a final destination.



The route depicted here is a three-leg route. Leg 1 extends from landmark A to landmark B, leg 2 from landmark B to landmark C, and leg 3 from C to D. The GPS Blazer12 gives you information on the NAV screens that directs you to the destination of each leg sequentially.

### Creating a Route

A route can contain up to 10 legs using any of the landmarks stored in memory. If there is a route already in memory you must delete the existing route before you can create a new one.

Access the Route Menu by pressing **MENU** until ROUTE appears at the top of the screen. The display should say "PRESS ENT TO CREATE."

**NOTE:** If the display says PRESS ENT TO VIEW there is an existing route and you must delete the existing route before creating a new one. (See *Deleting a Route* for details.)

Press **ENTER**.

# Additional Features

## Viewing the Time and Date

You can view the current time and date (obtained from the satellites) by repeatedly pressing the **MENU** key until TIME is displayed at the top of the screen.

## Viewing Elevation

You can view the last computed elevation for your GPS Blazer12 by repeatedly pressing the **MENU** key until ELEVATION is displayed at the top of the screen.



## Viewing Battery Life

You can view the estimated battery life remaining by repeatedly pressing the **MENU** key until POWER is displayed at the top of the screen.



Full Battery  
Life



40-60%  
Battery Life




Low  
Batteries

## Changing Coordinate Systems

You may wish to change the coordinate system that your GPS Blazer12 uses to display the position and landmarks coordinates.

You have the following options: LAT/LON using degree/minutes (DEGMIN), LAT/LON using degree/minutes/seconds (DEGMINSEC), Universal Transverse Mercator (UTM), OSGB, Irish, Swiss, Swedish, Finnish, French, or German. The choice you make will depend upon the maps or charts you may be using. You want your GPS Blazer12 to be displaying the coordinates in the same mode that your map or chart uses.

The following example shows the same position in three different modes.



34° 06' 57"	34° 06' 34"	3774603'
117° 49' 57"	117° 49' 34"	11 423806'
LAT/LON (DEGMIN)	LAT/LON (DEGMINSEC)	UTM

## Specifications

### Performance:

Receiver:	12 parallel-channel receiver with quadrifilar antenna, tracks up to 12 satellites to compute and update position information.
Acquisition Times:	Warm - Approx. 35 seconds Cold - Approx 2.5 minutes
Update Rate:	1 second continuous
Accuracy:	Position - 49 feet (15 meters) RMS (without Selective Availability) Velocity - 0.12 mph RMS steady state (without Selective Availability)

### Physical:

Weight:	6.8 ounces
Housing:	Waterproof (Battery compartment is splashproof)
Temperature:	0°C to 50°C (operating) -10°C to 60°C (storage)



### Features:

No. of Landmarks:	100 stored landmarks
No. of Routes:	1
Legs per route:	10 maximum

### Power:

Source:	2 AA alkaline batteries or 3.3 VDC ( $\pm 2\%$ ) 110 mA at receiver or 9-16 VDC with Magellan External Power Cable
Battery Life:	Approximately 20 hours operation