

Features and Button Function



The **THUMB STICK** (5-way)

- Press in to enter highlighted options and to confirm messages
- Move Up/Down or Right/Left to move through lists, highlight fields, on-screen buttons, icons, enter data or move the map panning arrow
- Press in and hold for two seconds to mark your current location as a waypoint

Internal Antenna



LCD Display

The **PAGE** button:

- Press to cycle through main pages.

The **POWER** button:

- Press and hold to turn the unit On/Off.
- Press to toggle display backlighting On/Off.

Power/Data Connector Cover

External Power and Data Connector with Alignment Bar



The **ZOOM IN/OUT** buttons:

- When on the Map Page, press to Zoom in and out.
- When on the Satellite Page, press to adjust the screen contrast.

The **FIND** button:

- Press to access the Find Menu



Installing the lanyard

Carry Lanyard Slot

Battery Compartment Cover



NOTE: The eTrex Venture is designed to be held and operated in the left hand, but it can be held and operated using the right hand as well to suit your preference.

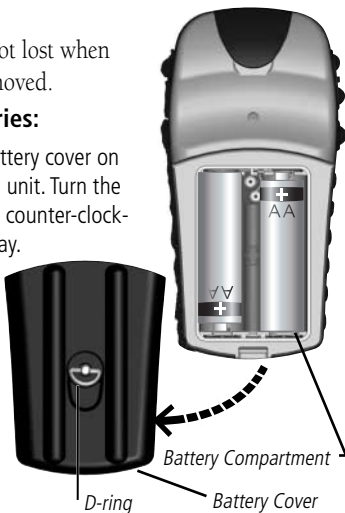
Installing the Batteries

The eTrex Venture operates on two “AA” batteries (not included), which are placed into the back of the unit. Rechargeable Alkaline, NiMH, NiCad or Lithium batteries may be used.

Stored data is not lost when the batteries are removed.

To install batteries:

1. Remove the battery cover on the back of the unit. Turn the D-ring 1/4 turn counter-clockwise & pull away.
2. Insert batteries observing the polarity.
3. Reinstall the battery cover by turning the D-ring 1/4 turn clockwise.



Display Backlighting and Contrast Set Up

If lighting conditions make it hard for you to see the display screen, you can adjust the contrast or turn on the backlight.

To turn on the backlighting:

1. Press the **POWER** button to turn on the backlight from any page on the unit. The backlight remains on until the set timeout period is completed or the **POWER** button is pressed again.

The unit is factory set to timeout 15 seconds after the last button press. (To reset the backlight timeout, refer to page 43.)

To adjust the screen contrast:

1. When on the Satellite Page, use the **ZOOM IN** or **OUT** buttons to adjust the contrast.

Battery Installation and Backlight/Contrast

Important Note:

When replacing batteries, use only new or fully recharged batteries and do not mix Alkaline, NiMH, NiCad or Lithium batteries.

Rechargeable batteries typically display less capacity than Alkaline batteries.

Follow the battery manufacturer's instructions for proper care and disposal of used batteries.

When using 'Battery Saver' or 'Use With GPS Off' mode when not navigating, Alkaline batteries can last up to 18 hours.

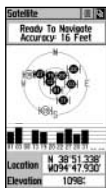


Press & Release **POWER** Button quickly to turn Backlighting On/Off



Use **ZOOM IN & OUT** Buttons while on the Satellite Page to Adjust Contrast

Main Page Basics



Satellite Page(1) Map Page(2) Navigation Page(3) Trip Computer(4) Main Menu(5)

All of the information you need to operate the eTrex Venture can be found on five main pages (or display screens). You can press and release the **PAGE** button to cycle through the Satellite Page, Map Page, Navigation Page, Trip Computer, and Main Menu Page.



While these five pages provide you with different types of navigation information, they all share common features like an Option Menu and a Main Page Menu, both of which are accessed by on-screen buttons located in the top right corner. To display these menus, highlight the on-screen button and press in on the **THUMB STICK**.



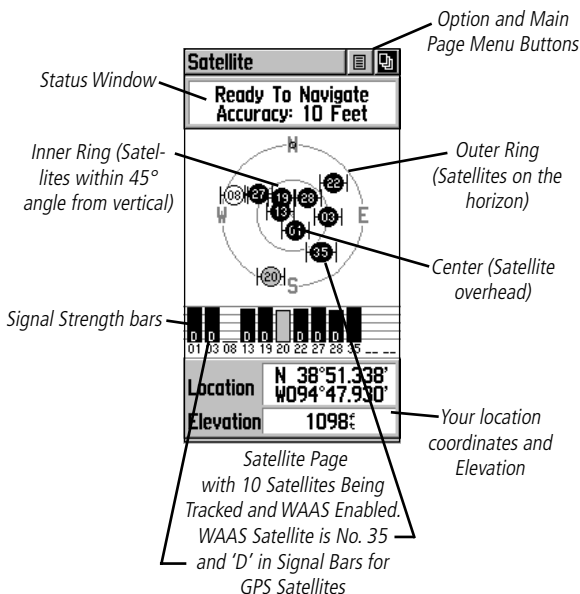
Option Menu
This menu provide additional features or allows you to customize the unit to your preferences.
*To exit these and other pop-up type menus, move the **THUMB STICK** to the left or right.*



Main Page Menu
Use to go directly to a Main Page and as an alternate to cycling through the Main Pages.

*Double-clicking the Main Page Menu with the **THUMB STICK** will toggle between the current and previously viewed main page.*

The Main Page

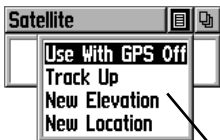


The Satellite Page provides a picture of satellite signal tracking, tells you when the unit is ready for navigation, and shows your location coordinates.

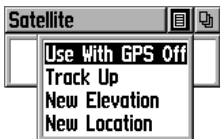
The Skyview graphic represents a view looking up at the sky from your current location showing satellites and their assigned numbers. The outer ring represents the horizon around you, the inner ring represents a view above you at a 45° angle from vertical, and the center represents directly overhead. Signal Strength Bars for each satellite are shown just below the Skyview. Satellites and their signals appear as hollow shapes until a signal is received and then they appear darkened in. The stronger the signal, the taller the signal bar.

The Wide Area Augmentation System (WAAS) capability produces a more accurate position fix. When enabled (the GPS mode set to 'Normal' and the interface set to other than RTCM mode), this feature searches for a WAAS satellite near your location and then receives data for correcting differentials in the GPS satellite signals and the WAAS satellite numbers (Number 33 or above) display on the Satellite Page. When differential correction data has been received for GPS satellites (number 32 or below), a 'D' displays in the signal bar beneath the skyview. It is helpful to orient the unit antenna toward the WAAS satellite shown in the skyview. To learn more about the WAAS System, access the Federal Aviation Administration web site (<http://gps.faa.gov/>).

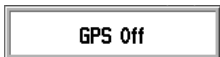
Options



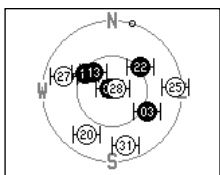
Satellite Page Options Menu
Highlight the on-screen button at the top of the page & press in on the **THUMB STICK**.



The Satellite Page Options Menu



*"GPS Off"
Message*



'North Up' Skyview Orientation

The Satellite Page options include:

Use With GPS Off - Use this option when you are indoors, a clear view of the sky is obstructed, or you want to save battery power. You can enter data, create routes, etc., but cannot navigate in this mode.

Track Up/North Up - You can orient the satellite skyview by selecting 'Track Up' (your direction of travel) or 'North Up' (the satellite skyview oriented to the north).

New Elevation - You can manually enter a new, more accurate elevation, if known, to increase position accuracy.

New Location - If you are more than 600 miles from where you last used the unit, select the 'New Location' and then the 'Use Map' options to approximate your location. This gives the unit reference information and speeds satellite acquisition.

To select the 'Use With GPS Off' option:

1. Use the **THUMB STICK** to highlight the Option Menu button at the top of the page and then press it in to display the Options Menu.
2. Use the **THUMB STICK** to highlight the 'Use With GPS Off' option and then press it in to activate.

The eTrex Venture stops tracking satellites and should not be used for navigation. However, the next time you turn the unit on, it returns to Normal GPS operation.

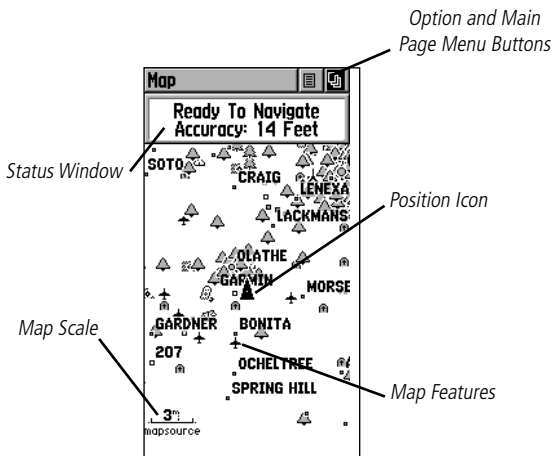
To select 'Track Up' or 'North Up':

1. Use the **THUMB STICK** to highlight the Option Menu button at the top of the page and then press it in to display the Options Menu.
2. Highlight either the 'Track Up' or 'North Up' option (depending on which is currently in use), and press in on the **THUMB STICK** to activate.

To enter a new elevation:

1. Use the **THUMB STICK** to display the Options Menu.

The Main Page



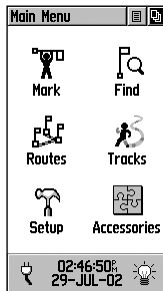
The Map Page displays your present position and direction of movement using a triangular 'Position Icon' that is centered on the map. As you travel, the map display leaves a track log ("trail") of your movements.

The map shown above displays a higher level of detail than the basemap provided with the unit, because Garmin MapSource Points of Interest data has been downloaded to the unit from the mapping program on the optional CD-ROM.

To allow you to view the map from different perspectives, the scale can be changed from 20 feet to 500 miles. The **ZOOM IN** and **OUT** buttons on the side of the unit allow you to zoom in or out on the map. Pressing and holding these buttons causes the scale to change rapidly instead of changing in increments. The **IN** button displays less area but more map detail, while the **OUT** button shows you a larger area with less map detail.

A Status Window at the top of the page provides you with current satellite tracking and position accuracy information.

The Main Page



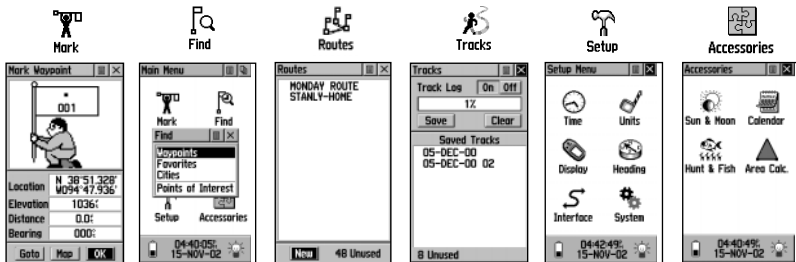
The Main Menu Page with Feature Icons and Battery Capacity, Time/Date, and Backlighting Status Bar.

The Main Menu provides you with a directory of the eTrex Venture's advanced features. From the Main Menu page you can mark and create new waypoints; find map items such as cities, Points of Interest, etc.; create routes; save tracks; setup system operating features; or access and use unit accessories.

Tracks

To exit these pages, highlight the on-screen 'X' button and press in on the THUMB STICK.

Main Menu Pages



Setting the Correct Time Zone

If the time displayed in the field at the bottom of the Main Menu does not match the time for your current location (time zone), use the Main Menu to access the Setup Pages, select the Time Icon and then follow instructions for setting the time on page 41.

The Main Menu Page

Using the Main Menu

The Main Menu provides access to additional eTrex Venture feature pages. The pages listed below provide enhancements to eTrex Venture operation. Press the **PAGE** button repeatedly to cycle to the Main Menu or select it from the page list at the top of each main page.

Mark Waypoint Page - Allows you to mark and store a waypoint for your current location or a map pointer location.

Find Menu - Allows you to locate, and Goto, or use as part of a Route; Waypoints, Favorite Locations, Cities, and Points of Interest. (Points of Interest requires use of the MapSource CD.)

Route Page - Allows you to create and store routes for repeated use.

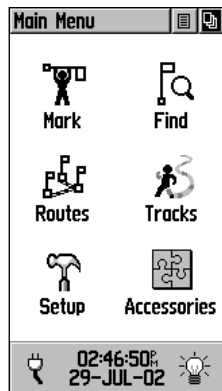
Tracks Page - Provides access to the track log and saved tracks.

Setup Page - Allows tailoring of items such as time format, units of measure, display backlighting timeout and contrast adjustment, interface setups, heading selection and system software information.

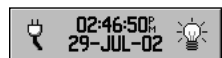
Accessories Page - Allows you to access Sun and Moon data, a Calendar, Hunting and Fishing data, and an Area Calculator.

Information about the status of backlighting, time and date, and unit power are displayed in the window at the bottom of the Main Menu Page.

The battery icon displays the approximate amount of reserve power available. When the unit is powered by a cigarette lighter adapter, a power plug icon replaces the battery icon. The date and time are displayed in the center of the window and when backlighting is active the light bulb to the right appears illuminated.



Main Menu with Feature Icons and Power, Date/Time, and Backlight Status Window



Power, Date/Time, and Backlight Status Window

Mark



Mark Waypoint Page



Map Symbol List

The Mark Waypoint Page

The Mark Waypoint Page allows you to mark and record your current (or any other) location as a waypoint and appears with a graphic name block (man with a flag) that displays the assigned number for that waypoint and a waypoint symbol.

To mark your current location as a waypoint:

1. Press in and hold the **THUMB STICK** until the Mark Waypoint Page appears. You can also access this page by highlighting the Mark Icon on the Main Menu Page and then pressing in on the **THUMB STICK**. It automatically is assigned a 3-digit number.
2. To change the name of the waypoint, use the **THUMB STICK** to highlight the waypoint name field and press it in to choose the appropriate letters or numbers one at a time.
3. To assign an identifying symbol to a waypoint, use the **THUMB STICK** to highlight the symbol block just above the waypoint name. Press the **THUMB STICK** and choose the symbol of your choice from the available list.
4. To save the waypoint, highlight 'OK' and press in on the **THUMB STICK**.
5. If you do not want to save it as a new waypoint, press the **PAGE** button before pressing any other to cancel.

To create a waypoint using the map panning arrow:

1. With the Pan Map feature active, move the panning arrow to the map item you want and highlight it.
2. Press in and release the **THUMB STICK** to display the item information page.
3. Highlight the Options Menu button at the top of the page and then press the **THUMB STICK** to open the menu.
4. Highlight the 'Save As Waypoint' option and press the **THUMB STICK** to save the map item as a waypoint.

To create a waypoint using the panning arrow when a map item is not highlighted:

1. With the Pan Map feature active, move the panning arrow (map pointer) on the map to the location you want to mark and then, press the **THUMB STICK**.
2. The Mark Waypoint Page displays, automatically assigning a number to the waypoint.

Be certain to press and release the **THUMB STICK** for this operation. BE CAREFUL not to press in and hold the **THUMB STICK** because it marks a waypoint of your current location.

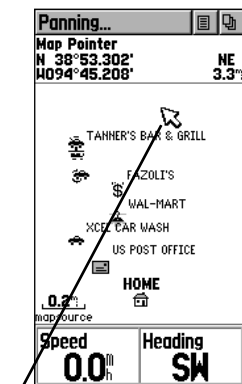
To create a waypoint by manually entering its coordinates (lat/lon):

1. Press in and hold the **THUMB STICK** to access the Mark Waypoint Page.
2. Highlight the Location Field on the Mark Waypoint Page, press the **THUMB STICK** and enter the new coordinates using the numerical keyboard. Highlight and press 'OK' when finished.
3. You may also change the waypoint name and/or symbol.

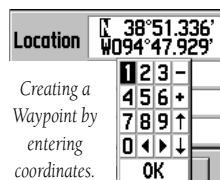
To move a waypoint:

1. Use the Find Menu to locate the waypoint you want to move.
2. On the Waypoint Information Page, highlight and press the 'Map' on-screen button to display the map for the waypoint.
3. With the waypoint highlighted by the panning arrow, press in and release the **THUMB STICK**. The word "Move" displays beneath the panning arrow.
4. Use the panning arrow to drag the waypoint to the new location and then press in on the **THUMB STICK** to place it.
5. Press the **PAGE** button before pressing the **THUMB STICK** to cancel moving of the waypoint and return to the Main Pages.

Mark Options



Marking a Waypoint on the map without highlighting a map item.

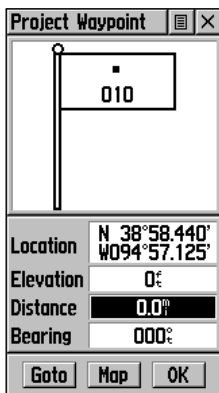


Creating a Waypoint by entering coordinates.



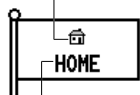
Moving a Waypoint

Mark Options

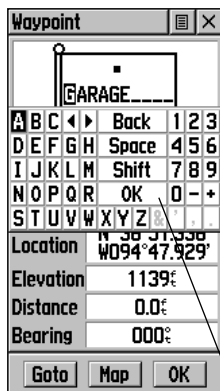


Enter Distance and Bearing to Project a Waypoint

Waypoint Symbol Field



Waypoint Name Field



Using the keyboard to edit

Projecting a Waypoint

Projecting a waypoint from any map item (another waypoint, etc.) allows you to establish a new waypoint on a bearing and distance projected from that map item.

To project a waypoint:

1. Select a map item from the Find Menu.
2. Highlight the Option Menu on-screen button at the top of the Information Page and press the **THUMB STICK** to display the Project Waypoint Page.
3. Press the **THUMB STICK** to display the numerical keyboard for entering the distance. Move from numeral to numeral pressing the **THUMB STICK** to enter numbers.
4. Enter the distance and bearing to the projected waypoint in the appropriate fields and then select 'OK' and press the **THUMB STICK** to complete.

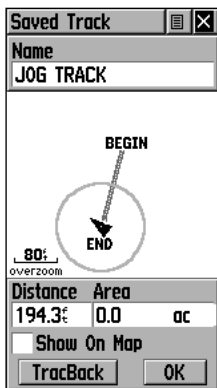
Editing a Waypoint

You can personalize a Waypoint by changing the Name field and Symbol field to make them easier to recognize or can change the coordinates or elevation. It can also be deleted.

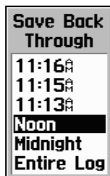
To edit a waypoint:

1. Use the Find Menu to display the waypoint.
2. Use the **THUMB STICK** to highlight the Waypoint symbol field and then press in to display the symbol list. Use the **THUMB STICK** to move up and down the list to highlight a symbol and then press in to place the symbol in the symbol field.
3. Use the **THUMB STICK** to highlight the Waypoint name, location or elevation fields, and then press in to display the keyboard.
4. Use the **THUMB STICK** to highlight the desired character and then press in to select it. Repeat the process until you are through.
5. Highlight 'OK', and then press the **THUMB STICK** to save the changes and close the keyboard.

Tracks Options



Saved Track Page



Save Track Options



TracBack Options



Track Log Setup Menu



Record
Method
Options

If you choose Auto-record, you can set the recording interval from More to Least Often. You can set recording intervals for Time or Distance as desired.

To save and use a Track Log:

1. Access the 'Tracks' page from the Main Menu. The page has On/Off buttons, a list of tracks, and the number of unused tracks.
2. You can press in on the on-screen 'Off' button to pause track logging. When track logging is active the 'On' button appears to be recessed.
3. Highlight the 'Save' on-screen button and then press the **THUMB STICK** to display the track log 'Save Back Through' list.
4. Use the **THUMB STICK** to select the time and date that you would like to save the track through.
5. Press in on the **THUMB STICK** to save the track log and display the Track Page.

The Track Page shows the track name, the total distance of the track, the number of points along the track, a 'Show on Map' option, and on-screen buttons for 'Map', 'OK', and 'TracBack'.

6. To enable the TracBack feature, highlight the 'TracBack' button and then press in on the **THUMB STICK**. This displays the TracBack Menu with two options. Highlight the desired option ('To Beginning' or 'To End') and then press in on the **THUMB STICK** to enable. Access the Map Page or the Navigation Page to navigate the Track.

To use Track Log Setup options:

1. Highlight the Tracks Page Options Menu button at the top of the page and press in on the **THUMB STICK** to display the menu.
2. Highlight the 'Tracks Log Setup' option and then press in on the **THUMB STICK**.

You can check the 'Wrap When Full' option by highlighting it and then pressing in on the **THUMB STICK**.

You can highlight the 'Record Method' and 'Interval' fields and press in on the **THUMB STICK** to display their options. 'Interval' options change to accommodate the 'Record Method' choices. -See page 39 for a description of these options.

The Setup Menu

The Setup Pages allow you to customize your eTrex Venture to your personal preferences. You can choose time settings, units of measure, display backlighting and contrast settings, heading measurement, interface options and system operating mode.

By highlighting the icons on the Setup Menu and then pressing in on the **THUMB STICK**, you can display the Setup Page for each of the menu items.

Time Page

You can set the time to match your location or for a projected location anywhere in the world.

Time Format - Allows you to choose from 12 or 24 hour time format so the clock displays like a standard clock with 12-hour AM and PM cycles or display a 24-hour cycle (Military Time).

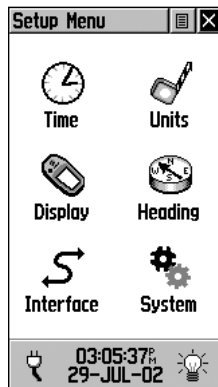
Time Zone - Can be set to one of the eight US Time Zones, or 24 International Time Zones (nearest city or geographical region). Select 'Other' so you can enter the UTC Time Offset.

Daylight Savings Time - Can be turned On or Off or set to Automatic.

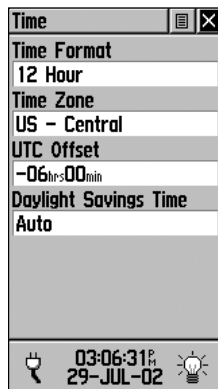
To set the time:

1. Use the **PAGE** button to access the Main Menu.
2. Use the **THUMB STICK** to highlight the Setup Icon and then press it in to display the Setup Menu.
3. Use the **THUMB STICK** to highlight the Time Icon and then press it in to display the Time Page.
4. Use the **THUMB STICK** to highlight the 'Time Zone' field then press it in to display the time zone list.
5. Highlight a time zone from the list and then press in on the **THUMB STICK**.
6. The correct time displays at the bottom of the page.

Setup



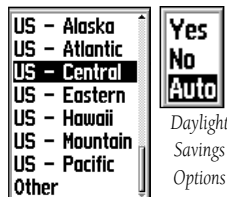
Setup Menu



Time Setup Page



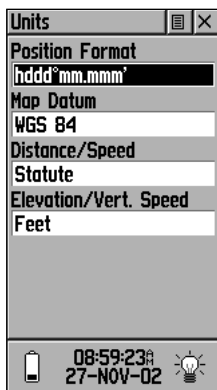
Time Format Options



Daylight Savings Options

Time Zone Options

Setup Options



Units Page



Position Format
Options Menu



Map Datum Options
Menu



Distance/Speed
Options



Elevation Options

Units Page

The Units features are best used by individuals with a working knowledge of map grids and datums. To learn more about these subjects, visit the National Imagery and Mapping Agency at <http://www.nima.mil> or inquire at your library.

Position Format - Allows you to choose from different grid formats. The default position format, 'hddd°mm.mmm' displays the latitude and longitude in degrees and minutes and is most commonly used.

Map Datum - Offers a selection of nearly all map datums in common use. Every map is based on a map datum (a reference model of the earth's shape) and is usually listed in the title block of the map. If you are comparing GPS coordinates to a paper map, chart, or other reference, the map datum in this field must match the horizontal map datum used to generate the map or other reference. The default datum is WGS 84 (World Geodetic Survey 1984). If a map does specify a datum, use the options list to find datums applicable to the region of the map, selecting the one that provides the best positioning at a known point. If necessary, you also may choose the 'User' datum for custom designed grids.

Distance/Speed - You can choose from four units of measure to display your rate of travel, e.g. in Yards.

Elevation - You can choose from two units of measure to display your elevation.

To select Units Page options:

1. For all fields on this page, highlight the field and then press the **THUMB STICK** to display the Options Menu for the field.
2. Highlight the desired option on the menu and then press the **THUMB STICK** to place it in the field.

System Page

The System Setup Page allows you to change:

GPS - Choose one of the four GPS options other than 'Normal' to significantly save battery power. The 'Battery Saver' mode reduces the rate of satellite signal position updating and the 'Use With GPS Off' option stops satellite signal reception altogether. The 'Demo Mode' simulates navigation.

WAAS - Switch between 'Enabled' and 'Disabled'. See page 5 for an explanation of WAAS capabilities.

Language - Change the display to any of 6 choices.

Also shown on this page is the Amount of Memory Used, Power Status, Time, Date, and Backlighting Status.

The 'Memory Used' figure refers to the non-volatile memory within your unit and cannot be adjusted directly. Saving a number of track logs and waypoints may affect the percentage but normally will not cause any problems. The 'Memory Used' does not reflect the 1 MB of memory storage reserved for MapSource Points of Interest CD-ROM.

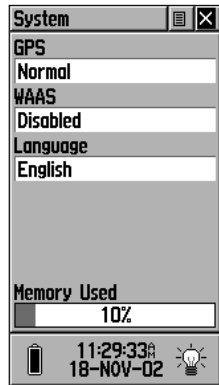
The 'Power Status' icon changes from a "battery" to an "electric plug" when external power is connected. The 'Backlight' icon changes from a dark outline to a "bright" outline when you press and release the **POWER** button.

The Option Menu allows you restore defaults or display the current version of unit operating software and the Unit I.D. Number.

To adjust System Page options:

1. Use the **THUMB STICK** to highlight the field and then press in to display options. Then use the **THUMB STICK** to select.

Setup Options



System Setup Page in Normal Mode, WAAS Disabled, and Language set to English.



System Page Options Menu