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You can read the recommendations in the user guide, the technical guide or the installation guide for GARMIN MONTANA 650. You'll find the answers to all your questions on the GARMIN MONTANA 650 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual GARMIN MONTANA 650**  
**User guide GARMIN MONTANA 650**  
**Operating instructions GARMIN MONTANA 650**  
**Instructions for use GARMIN MONTANA 650**  
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**Manual abstract:**

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When using your device the first time, you should complete these tasks to set up the device and get to know the basic features. 1. 2. 3. 4. 5. 6. 7. 8. 9.

Install the batteries (page 2). Turn on the device (page 4). Register the device (page 5). Acquire satellites (page 4). Calibrate the compass (page 19). Mark a waypoint (page 8). Create a route (page 11). Record a track (page 13). Navigate to a destination (page 16). Getting Started Device Overview Camera lens (650 and 650t only) Power key door (page 49) Auto mount power connector Stereo headphone jack (page 18) Mini-USB port (under weather cap) Battery cover D-ring MCX port for external GPS antenna (under weather cap) 1 microSDTM card slot (under battery Montana 600 Series Owner's Manual Getting Started Battery Information WARNING This product contains a lithium-ion battery.

To prevent the possibility of personal injury or product damage caused by battery exposure to extreme heat, store the device out of direct sunlight. The temperature rating for the device (page 45) may exceed the usable range of some batteries. Alkaline batteries can rupture at high temperatures. notice Alkaline batteries lose a significant amount of their capacity as temperature decreases. Therefore, use lithium batteries when operating the device in below-freezing conditions. The device operates on the included lithium-ion battery pack or three AA batteries. For tips on maximizing battery life and other battery information, see page 46. Installing the Lithium-ion Battery Pack 1. Turn the D-ring counter-clockwise, and pull up to remove the cover. 2. Locate the battery that came in the product box. 3. Align the metal contacts on the battery with the metal contacts in the battery compartment. 2 Montana 600 Series Owner's Manual Getting Started 4. Insert the battery into the compartment, contacts first. 5. Gently press the battery into place. 6. Replace the battery cover, and turn the D-ring clockwise. Charging the Lithium-ion Battery Pack 2. Pull up the weather cap from the mini-USB port . notice To prevent corrosion, thoroughly dry the mini-USB port, the weather cap, and the surrounding area before charging or connecting to a computer. Before you use the device the first time, fully charge the battery. Charging a depleted battery takes 4½ hours. The device will not charge when outside the temperature range of 32°F to 113°F (0°C to 45°C). 1. Plug the AC charger into a standard wall outlet. 3. Plug the small end of the AC charger into the mini-USB port. 4.

Charge the device completely. The device may feel warm when charging. Removing the Lithium-ion Battery Pack WARNING Do not use a sharp object to remove batteries. 1. Remove the battery cover. 2. Pull up on the side of the battery that is closer to the key. Montana 600 Series Owner's Manual 3 Getting Started Installing AA Batteries Instead of the lithium-ion battery pack, you can use alkaline, NiMH, or lithium batteries. This is especially useful when you are on the trail and cannot charge the lithium-ion battery pack. Use NiMH or lithium batteries for best results.

1. Turn the D-ring counter-clockwise, and pull up to remove the cover. 2. Insert three AA batteries, observing polarity. 6. Select Alkaline, Lithium, or Rechargeable NiMH. Turning the Device On or Off Hold (page 1). After the device is turned on, it begins acquiring satellite signals. The device may need a clear view of the sky to acquire satellite signals. When the bars turn green, your device has acquired satellite signals. The time and date are set automatically based on the GPS position. To adjust the time settings, see page 39. For more information about GPS, go to [www.garmin.com/aboutGPS](http://www.garmin.com/aboutGPS). Satellite Signals 3. Replace the battery cover, and turn the D-ring clockwise. 4. Hold (page 1). 5.

Select > Setup > System > AA Battery Type. 4 Montana 600 Series Owner's Manual Getting Started Registering Your Device · Go to <http://my.garmin.com>. · Keep the original sales receipt, or a photocopy, in a safe place. About the Main Menu Status bar Current time and date Application icons Application drawer containing · Select to open the application drawer.



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· Select to close the page and return to the previous page. · Select to return to the previous page. · Select to save changes and close the page. · Select and to scroll.

· Select to open a menu. · Select to search by name. Locking the Screen Lock the screen to prevent inadvertent screen touches. 1. Press . 2. Select . Using the Touchscreen more application icons Montana 600 Series Owner's Manual 5 Getting Started Unlocking the Screen 1. Press . 2. Select . Turning On the Backlight The backlight will turn off after a period of inactivity. To change the backlight timeout, see page 7. Rotating the Screen To lock the screen orientation, see page 36. Rotate your device to view in horizontal (landscape) or vertical (portrait) mode. Touch the screen. Alerts and messages also activate the backlight. Adjusting the Backlight Brightness NoTe: The backlight brightness may be limited when the remaining capacity in the batteries is low. Extensive use of screen backlighting can significantly reduce battery life. You can adjust the backlight brightness to maximize battery power.

1. While the device is on, press . 2. Use the backlight slider bar to adjust the brightness level. 6 Montana 600 Series Owner's Manual Getting Started The device may feel warm when the backlight setting is high. Adjusting the Backlight Timeout You can decrease the backlight timeout to maximize battery power. Select > Setup > Display > Backlight Timeout. Profiles Profiles are a collection of settings that optimize your device based on how you are using it. For example, your settings and views can be different when you are using the device for geocaching and for navigating on water. When you are using a profile and you change settings such as data fields or units of measurement, the changes are saved automatically as part of the profile. Selecting a Profile 1. Select > Profile Change. 2. Select a profile. Adjusting the Volume When you are using headphones or an auto mount, you can adjust the volume.

1. While the device is on, press . 2. Use the volume slider bar to adjust the volume level. Montana 600 Series Owner's Manual 7 Waypoints, Routes, and Tracks Waypoints, Routes, and Tracks Finding a Waypoint 1. Select Where To? > Waypoints. 2. Select a waypoint. Editing a Waypoint Before you can edit a waypoint, you must create a waypoint. 1. 2. 3. 4. 5. Select > Waypoint Manager.

Select a waypoint. Select an item to edit. Enter the new information. Select . Waypoints Waypoints are locations you record and store in the device. Creating a Waypoint You can save your current location as a waypoint. 1. Select Mark Waypoint. 2. Select an option: · To save the waypoint without changes, select Save.

· To make changes to the waypoint, select edit, make changes to the waypoint, and select Save. Deleting a Waypoint 1. Select > Waypoint Manager. 2. Select a waypoint.

3. Select > Delete. 8 Montana 600 Series Owner's Manual Waypoints, Routes, and Tracks Increasing the Accuracy of a Waypoint Location Waypoint Averaging allows you to increase the accuracy of a waypoint location by collecting multiple samples of the waypoint location. 1. 2. 3. 4. 5. Select > Waypoint Averaging. Select a waypoint. Move to the location. Select Start. When the Sample Confidence status bar reaches 100%, select Save. For best results, collect four to eight samples for the waypoint, waiting at least 90 minutes between samples. Projecting a Waypoint 1. Select > Sight N Go. 2. Point the device at an object or in the direction of a location. 3. Select Lock Direction > Project Waypoint. 4. Select a unit of measure. 5. Enter the distance to the object, and select . 6. Select Save. Using Sight N Go You can point the device at an object in the distance, lock in the direction, and then navigate to the object. 1. Select > Sight N Go. 2. Point the device at an object. 3. Select Lock Direction > Set Course. Montana 600 Series Owner's Manual 9 Waypoints, Routes, and Tracks Where To? Menu You can use the Where To? menu to find a destination to navigate to. Not all Where To? categories are available in all areas and maps. Additional Maps You can use additional maps in the device, such as BirdsEye™ satellite imagery, BlueChart® g2, and City Navigator® detailed maps. Detailed maps may contain additional points of interest, such as restaurants or marine services. For more information, go to <http://buy.garmin.com> or contact your Garmin dealer. Finding a Location by Name Depending on the maps loaded on your device, you can search for cities, geographic points, and various points of interest (POIs), such as restaurants, hotels, and auto services. 1. 2. 3. 4.

5. Select Where To?. Select a category. Select . Enter the name or part of the name. Select . Finding a Location Near Another Location 1. Select Where To? > Search Near. 2. Select an option.

3. If necessary, select a location. 10 Montana 600 Series Owner's Manual Waypoints, Routes, and Tracks Finding an Address You can use optional City Navigator® maps to search for addresses. 1. Select Where To? > Addresses. 3. Select Archive. Clearing the Current Track Select > Setup > Reset > Clear Current Track > Yes. Deleting a Track 1. Select > Track Manager. 2. Select a track. 3. Select Delete > Yes. Adventures Group related items together as an adventure. For example, you can create an adventure for your latest hiking trip. The adventure could contain the track log of the trip, photos of the trip, and geocaches you hunted. You can use BaseCamp to create and manage your adventures. Creating an Adventure 1. Select > Setup > Adventures > Create Adventure. 2. Select Add Item. 3. Select an item. 4. Select Use. 5. Repeat steps 24. Reviewing and Editing an Adventure 1. Select > Adventures. 2. Select an adventure. 3. If necessary, select . Montana 600 Series Owner's Manual 15 Navigation Navigation You can navigate a route, a track, to a waypoint, to a geocache, to a photo, or to any saved location in the device. You can use the map or the compass to navigate to your destination. Starting a TracBack® You can navigate back to the beginning of a track. This can be helpful when finding your way back to camp or the trail head. 1. Select > Track Manager > Current Track > View Map. 2. Select TracBack. The map page opens with your route marked with a magenta line. 3. Navigate using the map (page 17) or compass (page 19). Marking and Starting Navigation to a Man Overboard Location You can save a man overboard (MOB) location, and automatically start navigation back to it. 1. Select Start. > Man overboard > Navigating to a Destination 1. 2. 3.

4. You can navigate to a destination using the map or compass. Select Where To?. Select a category. Select a destination. Select Go. The map page opens with your route marked with a magenta line. 5. Navigate using the map (page 17) or compass (page 19).



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16 Montana 600 Series Owner's Manual Navigation The map page opens with your route marked with a magenta line.

2. Navigate using the map (page 17) or compass (page 19). Stopping Navigation Select Where To? > Stop Navigation. Map The position icon represents your location on the map. As you travel, the position icon moves.

When you are navigating to a destination, your route is marked with a magenta line on the map. For information about customizing the map settings, see page 37. For information about customizing the map dashboard and data fields, see page 33. Browsing the Map 1. Select Map.

2. Select one or more options: · Drag the map to view different areas. · Select + and - to zoom in and out of the map. · Select a location on the map, and select the information bar at the top of the screen to view information about the selected location (represented by a pin). Montana 600 Series Owner's Manual 17 Navigation Navigating a Driving Route CAUTION You can permanently damage your ears and lose hearing if you listen to the device, earbuds, or headphones at high volume. Limit the amount of time you listen at high volume. If you experience ringing in your ears or muffled speech, stop listening and have your hearing checked. Before you can use the map, you must purchase and load City Navigator maps. If you plan to use an auto mount accessory with the device, you must also purchase and install the mount in your vehicle. 1.

Select an option: · If you are using a mount with the device, install the device in the mount. 2. 3. 4. 5. Automotive profile is selected automatically. · If you are not using a mount with the device, select > Profile Change > Automotive. If you are not using a mount with the device, connect headphones or an audio line-out cable to the stereo headphone jack. Use the map to navigate to the destination. Listen to the voice prompts.

NoTe: If nothing is connected to the headphone jack, audio tones will replace the voice prompts. Follow the turns in the text bar along the top of the map. 18 Montana 600 Series Owner's Manual Navigation Compass The device has a 3-axis compass. You can use a bearing pointer or a course pointer to navigate to your destination. NoTe: When the device is in an auto mount, the compass displays GPS heading, not magnetic heading.

Calibrating the Compass notice Calibrate the electronic compass outdoors. To improve heading accuracy, do not stand near objects that influence magnetic fields, such as cars, buildings, or overhead power lines. You should calibrate the compass after moving long distances, experiencing temperature changes, or changing the batteries. 1. Select Compass > > Calibrate Compass > Start.

2. Follow the on-screen instructions. Navigating with the Bearing Pointer When navigating to a destination, the bearing pointer points to your destination, regardless of the direction you are moving. 1. Begin navigation to a destination (page 16). 2. Select Compass. 3. Turn until points toward the top of the compass, and continue moving in that direction to the destination. Montana 600 Series Owner's Manual 19 Navigation About the Course Pointer The course pointer is most useful if you are navigating on water or where there are no major obstacles in your path.

As you drift from the intended course to the destination, the course deviation indicator (CDI) provides the indication of drift (right or left) from the course.

The scale refers to the distance between dots on the course deviation indicator. Navigating with the Course Pointer The course pointer indicates your relationship to a course line leading to the destination. The course line to your destination is based on your original starting point. Before you can navigate with the course pointer, you must change the pointer setting to Course (CDI) (page 40). 1. Begin navigation to a destination (page 16). 2. Select Compass. 3. Use the course pointer to navigate to the destination (page 20). 20 Montana 600 Series Owner's Manual Navigation Elevation Plot By default, the elevation plot displays the elevation for an elapsed time. To customize the elevation plot, see page 40. Select > elevation Plot. Changing the Plot Type You can change the elevation plot to display pressure and elevation over time or distance.

1. Select > elevation Plot > Change Plot Type. 2. Select an option. Viewing Details about a Point on the Plot Select an individual point on the plot. Details about the point appear in the upper-left corner of the plot. > Resetting the Elevation Plot Select > elevation Plot > > Reset > Clear Current Track > Yes. Calibrating the Barometric Altimeter You can manually calibrate the barometric altimeter if you know the correct elevation or the correct barometric pressure. 1. Go to a location where the elevation or barometric pressure is known. 2. Select > elevation Plot > > Calibrate Altimeter. 3. Follow the on-screen instructions. Montana 600 Series Owner's Manual 21 Navigation Trip Computer The trip computer displays your current speed, average speed, maximum speed, trip odometer, and other helpful statistics.

To customize the trip computer, see page 33. Resetting the Trip Data For accurate information, reset the trip information before beginning a trip. Select > Trip Computer > > Reset Trip Data > Yes. All of the trip computer values are set to zero. 22 Montana 600 Series Owner's Manual Camera and Photos You can take photos with the Montana 650 and 650t. When you take a photo, the geographic location is automatically saved in the photo information. You can navigate to the location like a waypoint. 1. Select > Camera. 2.

Turn the device horizontally or vertically to change the orientation of the photo. 3. If necessary, select + or - to zoom in or out. 4. Hold to focus. 5. Release to take a photo. Camera and Photos Setting the Camera for Low Light Select > Camera > > Low Light Mode. Viewing Photos Taking a Photo You can view photos you have taken with the camera (page 23) and photos you have transferred to the device (page 50). 1. Select > Photo Viewer. 2. Select and to view all the photos. 3. Select a photo to see a larger view of it. Viewing a Slideshow 1. Select > Photo Viewer. 2. Select a photo. 3.

Select > View Slideshow. Montana 600 Series Owner's Manual 23 Camera and Photos Sorting Photos 1. Select > Photo Viewer > > Sort Photos. 2. Select Most Recently, Near a Location, or on a Specific Date. Viewing the Location of a Photo 1. Select > Photo Viewer. 2. Select a photo. 3. Select > View Map. Setting a Photo as Wallpaper 1. Select > Photo Viewer. 2. Select a photo. 3. Select > Set as Wallpaper. Deleting a Photo 1. Select > Photo Viewer. 2. Select a photo. 3. Select > Delete Photo > Yes. Navigating to a Photo 1. Select > Photo Viewer. 2. Select a photo. 3.



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Select > View Information > Go. 4.

Navigate using the map (page 17) or compass (page 19). Uploading and Downloading Photos from Garmin Connect 1. Connect your device to a computer (page 49). 2. Go to <http://my.garmin.com>. 3. If necessary, create an account. 4.

Sign in. 5. Follow the on-screen directions to upload or download photos. 24 Montana 600 Series Owner's Manual Geocaches A geocache is like a hidden treasure. Geocaching is when you hunt for hidden treasures using GPS coordinates posted online by those hiding the geocache.

Geocaches Filtering the Geocache List You can filter your geocache list based on certain factors, such as the level of difficulty. 1. Select > Geocaching > Quick Filter. 2. Select items to filter.

3. Select an option: · To apply the filter to the geocache list, select Search. · To save the filter, select . Creating and Saving a Geocache Filter You can create and save custom filters for geocaches based on specific factors you select. After you set up the filter, you can apply it in the geocaches list. 1. Select > Setup > Geocaching > Filter Setup > Create Filter. Downloading Geocaches 1. Connect your device to a computer (page 49). 2.

Go to [www.OpenCaching.com](http://www.OpenCaching.com). 3. If necessary, create an account. 4. Sign in. 5. Follow the on-screen instructions to find and download geocaches to your device. Montana 600 Series Owner's Manual 25 Geocaches 2.

Select items to filter. 3. Select an option: · To apply the filter to the geocache list, select Search. · To save the filter, select . After it is saved, the filter is automatically named.

You can access the custom filter from the geocaches list. Editing a Custom Geocache Filter 1. Select > Setup > Geocaching > Filter Setup. 2. Select a filter. 3. Select an item to edit. 1. 2. 3. 4. 5. Navigating to a Geocache Select > Geocaching. Select Find a Geocache. Select a geocache.

Select Go. Navigate using the map (page 17) or compass (page 19). Logging the Attempt After you have attempted to find a geocache, you can log your results. 1. Select > Geocaching > Log Attempt. 2. Select Found, Did Not Find, or Needs Repair. 3. Select an option: · To begin navigation to a geocache nearest you, select Find Next Closest. 26 Montana 600 Series Owner's Manual Geocaches · To end the logging, select Done.

· To enter a comment about looking for the cache or the cache itself, select edit Comment, enter a comment, and select . · To rate the geocache, select Rate Geocache, and select an item to rate. Enable chirp Searching 1. Select > Setup > Geocaching. 2.

Select chirp™ Searching > on. Finding a Geocache with a chirp 1. Select > Geocaching > Show chirp™ Details. 2. Begin navigating to a geocache (page 26).

When you are within 32.9 feet (10 m) of the geocache that contains a chirp, details about the chirp appear. 3. If available, select Go! to navigate to the next stage of the geocache. chirp™ A chirp is a small Garmin accessory that you can program and leave in a geocache. Only the owner of the chirp can program a chirp, but anyone can find a chirp in a geocache. For more information about programming a chirp, see the chirp Owner's Manual at [www.garmin.com](http://www.garmin.com). Montana 600 Series Owner's Manual 27 Applications Applications > 3D View.

Using the 3D View 1. Select · To pan the 3D map backward, select . · To rotate the view to the left, select . · To rotate the view to the right, select . About Sharing Data Your device can send or receive data when connected to another compatible device. You can share waypoints, geocaches, routes, and tracks. Sending and Receiving Data Wirelessly Before you can share data wirelessly, you must be within 10 feet (3 m) of a compatible Garmin device. 1. Select > Share Wirelessly. 2.

Select Send or Receive. 3. Follow the on-screen instructions. 2. Select an option: · To increase the angle of elevation, select - . · To decrease the angle of elevation, select +. @@1. Select > Proximity Alarms. 2. Select Create Alarm. 3. Select a category. 4. Select a location. 5. Select Use. 6. Enter a radius. 7. Select .

@@Select > Area Calculation > Start. 2. Walk around the perimeter of the area you want to calculate. 3. @@1. Select > Calculator. 2. Complete an action: Use the standard calculator. @@@@1. Select > Alarm Clock.

2. Select + and - to set the time. 3. Select Turn Alarm on. 4.

Select an option. The alarm sounds at the selected time. @@Starting the Countdown Timer 1. Select > Alarm Clock > > Timer. 2.

Select + and - to set the time. 3. Select Start Timer. 1. Select . 2. @@@@3. If necessary, select or to view a different month. 4. @@Changing the Satellite View 1.

Select > Satellite > . 2. @@3. @@Select > Satellite > > Use With GPS off. 2. Select > Set Location on Map. 3. Select a location. 4. @@Select > Shortcuts > Create Shortcut.

2. Enter a name for the shortcut. 3. Select the item you want to open with this shortcut. @@1.

2. 3. 4. Select > Shortcuts. Select the shortcut.

Select Add to Menu. @@@@Enabling the Map Data Fields 1. Select Map > > Setup Map > Dashboard. 2. @@1. Open the page for which you will change the data fields. 2. Select a data field to customize. 3. Select a data field type.

For data field descriptions, see page 54. Customizing Dashboards 1. Open the page for which you want to customize the dashboard. 2. @@ · From the compass or trip > Change computer, select Dashboard. 3. Select a dashboard. Montana 600 Series Owner's Manual 33 Customizing Your Device Creating a Custom Profile You can customize your settings and data fields for a particular activity or trip. Deleting a Profile 1. Select > Setup > Profiles.

2. Select a profile. 3. Select Delete. 1.

Customize the settings as necessary (pages 32-44). 2. Customize the data fields as necessary (page 33). 3. Select > Setup > Profiles.

4. Select Create New Profile > oK. Editing a Profile Name 1. Select > Setup > Profiles. 2. Select a profile. 3. Select edit Name. 4. Enter the new name.

5. Select . System Settings Select > Setup > System. · GPS--sets the GPS to Normal, WAAS/eGNOS (Wide Area Augmentation System/European Geostationary Navigation Overlay Service), or Demo Mode (GPS off). For information about WAAS, go to [www.garmin.com/aboutGPS/waas.html](http://www.garmin.com/aboutGPS/waas.html). · Text Language--sets the text language on the device. NoTe: Changing the text language does not change the language of user-entered data or map data, such as street names. Montana 600 Series Owner's Manual 34 Customizing Your Device · Voice Language--sets the voice for the vocal prompts. · Interface--sets the format of the serial interface: Garmin Spanner--allows you to use the device USB port with most NMEA 0183-compliant mapping programs by creating a virtual serial port. Garmin Serial--Garmin proprietary format used to exchange waypoint, route, and track data with a computer.



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NMEA In/out--provides standard NMEA 0183 output and input. Text out--provides simple ASCII text output of location and velocity information. RTCM--Radio Technical Commission for Maritime Services allows the device to accept Differential Global Positioning System (DGPS) information from a device supplying RTCM data in an SC-104 format. · AA Battery Type--allows you to select the type of AA battery you are using (page 4). This setting is disabled when the lithium-ion battery pack is installed. Display Settings Select > Setup > Display. · Backlight Timeout--adjusts the length of time before the backlight turns off.

NoTe: To adjust the backlight brightness, see page 6. Montana 600 Series Owner's Manual 35 Customizing Your Device · orientation Lock--locks the screen orientation in portrait or landscape mode, or allows the screen to change orientation automatically based on the device orientation. · Screen Capture--allows you to take screen captures on the device. · Battery Save--saves battery power and prolongs the battery life. · Calibrate Screen--page 36. Calibrating the Touchscreen The screen does not normally require calibration. However, if the screen does not seem to be responding properly, calibrate the touchscreen. 1. Select > Setup > Display > Calibrate Screen. 2.

Follow the on-screen instructions. Appearance Settings Select > Setup > Appearance. · Mode--sets a light background (Day), a dark background (Night), or automatically switches between the two based on the sunrise time and the sunset time for your current location (Auto). · Day Background--sets the background image used in day mode. · Night Background--sets the background image used in night mode. · Day Highlight Color--sets the color for selections in day mode. · Night Highlight Color--sets the color for selections in night mode. · Landscape Controls--places the controls on the left or right side of the screen when in landscape mode. Montana 600 Series Owner's Manual 36 Customizing Your Device Setting the Device Tones You can customize tones for messages, keys, turn warnings, and alarms. 1.

Select > Setup > Tones. 2. Select a tone for each audible type. Map Settings Select > Setup > Map. · orientation--adjusts how the map is shown on the page. North Up--shows north at the top of the page. Track Up--shows your current direction of travel toward the top of the page. Automotive Mode--shows an automotive perspective with the direction of travel at the top. · Guidance Text--allows you to select when to show guidance text on the map. · Dashboard--selects a dashboard to display on the map.

Each dashboard shows different information about your route or your location. · Advanced Map Setup--sets the zoom levels, the text size, and the detail level of the map. Auto Zoom--automatically selects the appropriate zoom level for optimal use on your map. When off is selected, you must zoom in or out manually. Zoom Levels--selects the zoom level for map items. Text Size--selects the text size for map items. Montana 600 Series Owner's Manual 37 Customizing Your Device Detail--selects the amount of detail shown on the map. Showing more detail may cause the map to redraw more slowly. Shaded Relief--shows detail relief on the map (if available) or turns off shading. Vehicle--allows you to select the position icon, which represents your position on the map.

· Map Information--allows you to enable or disable the maps currently loaded on the device. To purchase additional maps, see page 10. · Map Speed--adjusts the speed at which the map is drawn. Camera Settings Select > Setup > Camera. · Photo Resolution--changes the resolution of the photos you will take. · Save Photos To--allows you to select the storage location. · Camera Instructions--displays brief directions on taking a photo with the camera. Tracks Settings Select > Setup > Tracks. · Track Log--turns track recording on or off. · Record Method--selects a track recording method.

Auto records the tracks at a variable rate to create an optimum representation of your tracks. 38 Montana 600 Series Owner's Manual Customizing Your Device · Interval--selects a track log recording rate. Recording points more frequently creates a more detailed track, but fills the track log faster. · Auto Archive--selects an automatic archive method to organize your tracks. Tracks are saved and cleared automatically based on the user setting.

· Color--changes the color of the track line on the map. Time Settings Select > Setup > Time. · Time Format--allows you to select a 12-hour or a 24-hour display time. · Time Zone--allows you to select the time zone for the device. You can select Automatic to set the time zone automatically based on your GPS position.

Changing the Units of Measure Position Format Settings You can customize units of measure for distance and speed, elevation, depth, temperature, and pressure. 1. Select > Setup > Units. 2. Select a measurement type. 3. Select a unit of measure for the setting. Montana 600 Series Owner's Manual NoTe: Do not change the position format or the map datum coordinate system unless you are using a map or chart that specifies a different position format. Select > Setup > Position Format. 39 Customizing Your Device · Position Format--sets the position format in which a given location reading appears.

· Map Datum--sets the coordinate system on which the map is structured. · Map Spheroid--shows the coordinate system the device is using. The default coordinate system is WGS 84. Heading Settings Select You can customize the compass settings. > Setup > Heading. · Display--sets the type of directional heading on the compass. · North Reference--sets the north reference of the compass. · Go To Line/Pointer--allows you to select how the course appears. Bearing (Small or Large)--the direction to your destination. Course (CDI)--the course deviation indicator displays your relationship to a course line leading to a destination.

· Compass--switches from an electronic compass to a GPS compass when you are traveling at a higher rate of speed for a set period of time (Auto), or turns the compass off. · Calibrate Compass--page 19. Altimeter Settings Select > Setup > Altimeter. · Auto Calibration--allows the altimeter to self-calibrate each time you turn the device on. Montana 600 Series Owner's Manual 40 Customizing Your Device · Barometer Mode Variable elevation--allows the barometer to measure changes in elevation while you are moving.

Fixed elevation--assumes the device is stationary at a fixed elevation. Therefore, the barometric pressure should only change due to weather.



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· **Pressure Trending Save When Power on**-- records pressure data only when the device is turned on. This can be useful when you are watching for pressure fronts. **Save Always**--records pressure data every 15 minutes, even when the device is turned off.

· **Plot Type elevation/Time**--records elevation changes over a period of time. **elevation/Distance**--records elevation changes over a distance. **Barometric Pressure**--records barometric pressure over a period of time. **Ambient Pressure**--records ambient pressure changes over a period of time. · **Calibrate Altimeter**--page 21. **Geocaching Settings Select > Setup > Geocaching**. · **Geocache List**--allows you to display the geocache list by names or codes. *Montana 600 Series Owner's Manual 41 Customizing Your Device* · **Found Geocaches**--allows you to edit the number of geocaches found. This number automatically increases as you log a find (page 26). · **chirp™ Searching**--page 27.

· **Program chirp™**--programs the chirp accessory. See the chirp Owner's Manual at [www.garmin.com](http://www.garmin.com). · **Filter**--page 25. **Routing Settings** The device calculates routes optimized for the type of activity you are doing. The routing settings available vary based on the activity selected. **Select > Setup > Routing**. · **Activity**--allows you to select an activity for routing. · **Route Transitions**--available only for some activities.

**Auto**--automatically routes you to the next point. **Manual**--allows you to select the next point on the route. **Distance**--routes you to the next point on the route when you are within a specified distance of your current point. · **Calculation Method**--(available only for some activities) selects a preference for calculating routes. · **Lock on Road**--locks the position icon, which represents your position on the map, onto the nearest road.

· **Avoidance Setup**--(available only for some activities) allows you to select the road type you want to avoid. *42 Montana 600 Series Owner's Manual Customizing Your Device Marine Map Settings Select > Setup > Marine*. · **Marine Chart Mode**--allows you to select a nautical chart or a fishing chart: **Nautical**--displays various map features in different colors so that the marine POIs are more readable. The nautical chart reflects the drawing scheme of paper charts. **Fishing**--(requires marine maps) displays a detailed view of bottom contours and depth soundings. **Simplifies map presentation for optimal use while fishing**. · **Appearance**--allows you to set the appearance of marine navigation aids on the map. · **Marine Alarm Setup Anchor Drag Alarm**--alarm sounds when you exceed a specified drift distance while anchored. **off Course Alarm**--alarm sounds when you are off course by a specified distance. **Deep Water/Shallow Water**-- alarm sounds when you enter water of a specific depth. **Setting up Marine Alarms 1. Select > Setup > Marine > Marine Alarm Setup. 2. Select an alarm type. 3. Select on. 4. Enter a distance. 5. Select.** *Montana 600 Series Owner's Manual 43 Customizing Your Device Fitness For more information on optional fitness accessories, see page 52. Restoring Specific Page Settings* You can restore the settings for the map, compass, and trip computer. **1. Open the page for which you will restore the settings. 2. Select > Restore Defaults. Restoring All Default Settings** You can reset all the setup values to the original settings. **Select > Setup > Reset > Reset All Settings > Yes. Resetting Data** You can reset trip data, delete all waypoints, clear the current track, or restore default values. **1. Select > Setup > Setup > Reset. 2. Select an item to reset. Restoring Specific Settings to Defaults 1. Select > Setup. 2. Select an item to reset. 3. Select > Restore Defaults.** *44 Montana 600 Series Owner's Manual Device Information Updating the Software Before you can update the software, you must connect the device to your computer (page 49). 1. Go to [www.garmin.com/products/webupdater](http://www.garmin.com/products/webupdater). 2.*

*Follow the on-screen instructions. NoTe: Updating the software does not erase any of your data or settings. Device Information Specifications Water resistance Battery type Fully gasketed, high impact plastic alloy, waterproof to IEC 60529 IPX7 Lithium-ion battery pack (010-11654-03) or three AA batteries (alkaline, NiMH, or lithium) Lithium-ion battery pack: up to 16 hours AA batteries: up to 22 hours From 32°F to 113°F (from 0 to 45°C) From -4°F to 158°F (from -15 to 70°C) Battery life Viewing Device Information Select You can view the unit ID, software version, and license agreement. > Setup > About. Battery charging temperature range Operating temperature range Montana 600 Series Owner's Manual 45 Device Information Stereo headphone jack 35 mm NOTE: The device is not intended to be used to listen to music CAUTION Contact your local waste disposal department to properly recycle the batteries. notice Alkaline batteries lose a significant amount of their capacity as temperature decreases. Therefore, use lithium batteries when operating the device in below-freezing conditions. If you store a fully charged device in a location above 131°F (55°C), the battery will automatically discharge to prolong the lifetime of the battery. Maximizing Battery Life You can do various things to increase the battery life. · Exit the camera application when you are not taking photos.*

**About the Batteries WARNING** This product contains a lithium-ion battery. To prevent the possibility of personal injury or product damage caused by battery exposure to extreme heat, store the device out of direct sunlight. The temperature rating for the device (page 45) may exceed the usable range of some batteries. Alkaline batteries can rupture at high temperatures. Do not use a sharp object to remove batteries.

*46 Montana 600 Series Owner's Manual Device Information* · Leave the backlight off when not needed. · Lower the backlight brightness (page 6). · Decrease the backlight timeout (page 7). · Enable battery save mode (page 36). · Set the Map Speed to Normal (page 38).

**Long-Term Storage** When you do not plan to use the device for several months, remove the batteries. Stored data is not lost when batteries are removed. Never use a hard or sharp object to operate the touchscreen, or damage may result. **Cleaning the Device 1. Dampen a clean cloth with a mild detergent solution. 2. Wipe the device with the damp cloth. 3. If necessary, use a soft toothbrush to gently clean the vent holes on the back of the device. 4. Thoroughly dry the device. Cleaning the Screen 1. Dampen a soft, clean, lint-free cloth with water, isopropyl alcohol, or eyeglass lens cleaner. 2. Wipe the screen with the cloth. 3. Thoroughly dry the screen. Caring for the Device notice Avoid chemical cleaners and solvents which can damage plastic components.**



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Montana 600 Series Owner's Manual 47 Device Information Water Immersion notice The device is waterproof to IEC Standard 60529 IPX7. It can withstand immersion in 1 meter of water for 30 minutes.

However, prolonged submersion can cause damage to the device. After submersion, be certain to wipe dry and air dry the device before using or charging. Extreme Temperatures notice Do not store the device where prolonged exposure to extreme temperatures can occur because it can cause permanent damage.

NoTe: The device is not compatible with Windows® 95, 98, Me, or NT. It is also not compatible with Mac® OS 10.

3 and earlier. File Types The device supports these file types. · Files from BaseCamp™ or HomePort™ Go to [www.garmin.com](http://www.garmin.com).

· GPI custom POI files from the Garmin POI Loader · JPEG photo files · GPX geocache files Data Management 48 Montana 600 Series Owner's Manual Device Information Installing a microSD Card Memory cards can be used for additional storage. Also, some maps are available preloaded on memory cards. Go to <http://buy.garmin.com> for more information. 1. Turn the D-ring counter-clockwise, and pull up to remove the cover. 2. Remove the batteries or battery.

3.

Slide the card holder toward the top edge of the device and lift up, as instructed in the battery compartment. 4. Place the microSD card in the device with the gold contacts facing down. 5. Close the card holder. 6. Slide the card holder toward the bottom of the device to lock it. 7. Replace the batteries (page 2). 8. Replace the battery cover, and turn the D-ring clockwise. Connecting the Device to a Computer notice To prevent corrosion, thoroughly dry the mini-USB port, the weather cap, and the surrounding area before charging or connecting to a computer. The lithium-ion battery pack will charge while connected to the computer. Montana 600 Series Owner's Manual 49 Device Information 1. Connect the USB cable to a USB port on your computer.

2. Pull up the weather cap from the mini-USB port . Transferring Files to Your Computer Before you can transfer files, you must connect the device to your computer (page 49). 1. 2.

3. 4. Browse your computer for the file. Select the file. Select edit > Copy. Open the "Garmin" or memory card drive/volume. 5. Select edit > Paste. 3. Plug the small end of the USB cable into the mini-USB port.

@@@1. Open the "Garmin" drive or volume. 2. If necessary, open a folder or volume. 3. Select the files. 4. @@ Complete an action: · For Windows computers, click the eject icon in your system tray. · For Mac computers, drag the volume icon to the Trash . 2.

Disconnect the device from your computer. Montana 600 Series Owner's Manual 51 Appendix Appendix Optional Accessories Optional accessories, such as mounts, maps, fitness accessories, and replacement parts, are available at <http://buy.garmin.com> or from your Garmin dealer. Optional Mounts The AMPS Rugged Mount provides a mount and cable that provides power, serial data (NMEA-compliant), and audio.

The auto mounts kits contain a vehicle power cable and either a suction cup mount or a friction mount. When used with City Navigator maps, voice prompts are sounded through the speakers on the mount. The auto mounts are not waterproof. Optional Maps You can purchase additional maps, such as BirdsEye™ satellite imagery, Garmin custom maps, Inland lakes, Topo, BlueChart® g2 and City Navigator® maps. Optional Fitness Accessories Before you can use the fitness accessory with your device, you must install the accessory according to the instructions included with the accessory.

You can use optional fitness accessories including a heart rate monitor or a cadence sensor with your device. These accessories use ANT+™ wireless technology to send data to the device. 52 Montana 600 Series Owner's Manual Appendix I. Bring the device within range (3 m) of the ANT+ accessory. 2. Select > Setup > Fitness. 3. Select Heart Rate Monitor or Bike Cadence Sensor. 4. Select Search for New.

5. Customize your data fields to view the heart rate or cadence data (page 33). Tips for Pairing ANT+ Accessories with Your Garmin Device Using Optional Fitness Accessories · Verify that the ANT+ accessory is compatible with your Garmin device. · Before you pair the ANT+ accessory with your Garmin device, move 10 m (32.9 feet) away from other ANT+ accessories. · Bring the Garmin device within range 3 m (10 feet) of the ANT+ accessory. · After you pair the first time, your Garmin device automatically recognizes the ANT+ accessory each time it is activated. This process occurs automatically when you turn on the Garmin device and only takes a few seconds when the accessories are activated and functioning correctly. · When paired, your Garmin device receives data from only your accessory, and you can go near other accessories. Montana 600 Series Owner's Manual 53 Appendix Data Field Options Data Field Accuracy

of GPS Description The margin of error for your exact location For example, your GPS location is accurate to within +/365 m (12 feet) Ambient The uncalibrated Pressure environmental pressure Ascent The average vertical Average distance of ascent Ascent The maximum ascent Maximum rate in feet or meters per minute Ascent - Total The total elevation distance ascended Barometer The calibrated current pressure Battery Level The remaining battery power

Data Field Bearing Cadence (cadence accessory required) Course Description The direction from your current location to a destination Revolutions of the crank arm or strides per minute The direction from your starting location to a destination Depth The depth of the water Requires a connection to a NMEA 0183 depth-capable device to acquire data (page 52) Descent The average vertical Average distance of descent Descent The maximum Maximum descent rate in feet or meters per minute Descent - Total The total elevation distance descended Montana 600 Series Owner's Manual 54 Appendix Data Field Distance to

Destination Distance to Next Elevation Elevation Maximum Elevation Minimum ETA at Destination ETA at Next Glide Ratio Description The distance to your final destination The remaining distance to the next waypoint on the route The altitude of your current location above or below sea level The highest elevation reached The lowest elevation reached The estimated time of day you will reach your final destination The estimated time of day you will reach the next

waypoint on the route The ratio of horizontal distance traveled to the change in vertical distance Data Field Description Glide Ratio to The glide ratio Dest required to descend from your current position and elevation to the destination elevation GPS Signal The strength of the Strength GPS signal Heading The direction you are moving \*\*Heart Rate Your heart rate in (heart rate beats per minute monitor (bpm) required) Location (lat/ Displays the current lon)

position in the default position format regardless of the selected settings Location Displays the current (selected) position in the selected position format 55 Montana 600 Series Owner's Manual Appendix Data Field Odometer Off Course Pointer Speed Speed Maximum Speed Moving Avg Description A running tally of distance traveled for all trips The distance to the left or the right by which you have strayed from the original path of travel The data field arrow

points in the direction of the next waypoint or turn The current rate of speed at which you are moving since last reset The maximum speed reached since last reset The average speed of the device while moving since last reset Description Your average speed since last reset The reported speed limit for the road Not available in all maps and areas Always rely on posted road signs for actual speed limits Sunrise The time of sunrise based on your GPS position Sunset The time of sunset based on your GPS position Temperature - The temperature of Water the water Requires a connection to a NMEA 0183 temperature-capable device to acquire data (page 52) Data Field Speed Overall Avg Speed Limit 56 Montana 600 Series Owner's Manual Appendix Data Field Time of Day

Description The current time of day based on your time settings (format, time zone, and daylight saving time) Time to The estimated time Destination needed to reach your final destination Time to Next The estimated time needed to reach the next waypoint on the route To Course The direction in which you must move to return to the route Trip Odometer A running tally of the distance traveled since the last reset Trip Time A running tally of time Moving since the last reset Trip Time The time spent not Stopped moving since the last reset Montana 600 Series Owner's Manual Data Field Trip Time Total Description A running tally of distance traveled since the last reset Turn The angle of difference (in degrees) between the bearing to your destination and your current course L means turn left R means turn right Velocity Made The speed at which Good you are closing on a destination along a route Vert Speed to The

direction you are moving \*\*Heart Rate Your heart rate in (heart rate beats per minute monitor (bpm) required) Location (lat/ Displays the current lon) position in the default position format regardless of the selected settings Location Displays the current (selected) position in the selected position format 55 Montana 600 Series Owner's Manual Appendix Data Field Odometer Off Course Pointer Speed Speed Maximum Speed Moving Avg Description A running tally of distance traveled for all trips The distance to the left or the right by which you have strayed from the original path of travel The data field arrow

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measurement Dest of your rate of ascent or descent to a predetermined altitude Vertical Speed Your rate of altitude gain or loss over time 57 Appendix Data Field Waypoint at Dest Waypoint at Next Description The last point on a route to your destination The next point on your route 58 Montana 600 Series Owner's Manual Appendix Troubleshooting Problem The screen does not respond How do I reset the device? I want to reset all the customized settings back to the factory defaults My device does not acquire satellite signals Solution 1 Remove the batteries 2 Reinstall the batteries NOTE: This does not erase any of your data or settings Select > Setup > Reset > Reset All Settings 1 Take your device out of buildings and parking garages, and away from tall buildings and trees 2 Turn on the device 3 Remain stationary for several minutes My device will not - Ensure that the lithium-ion battery pack is properly charge installed (page 2) - Ensure the temperature is between 32°F and 113°F (from 0 to 45°C) - Turn down the backlight (page 6) My battery gauge does 1 Leave the device on until the battery runs out not seem accurate 2 Fully charge the battery without interrupting the charge cycle (page 3) The batteries do not To learn how to maximize the battery life, see page 46 last long 59 Montana 600 Series Owner's Manual Appendix Solution On the device, an image of the device connected to a computer appears On your computer, you should see a new removable disk drive in My Computer on Windows computers and a mounted volume on Mac computers My device is You may have loaded a corrupted file connected to the 1 Disconnect the device from your computer computer, but it will not 2 Turn off the device go into mass storage 3 Hold while you connect the device to your mode computer 4 Continue holding for 30 seconds or until the device goes into mass storage mode I cannot see any new If you have several network drives mapped on your removable drives in computer, Windows may have trouble assigning drive my list of drives letters to your Garmin drives See the help file for your operating system to learn how to assign drive letters I need replacement Go to <http://buygarmin.com>, or contact your Garmin parts or accessories dealer I want to buy an Go to <http://buygarmin.com>, or contact your Garmin external GPS antenna dealer Problem How do I know my device is in USB mass storage mode? 60 Montana 600 Series Owner's Manual Index Symbols 3D view 28 A AA batteries.



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