GARMIN.

TREAD®

Owner's Manual

Table of Contents

Getting Started

> ⚠ **WARNING**

See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

- Update the maps and software on your device (*Updating Maps and Software Using a Wi-Fi Network, page 46*).
- Adjust the volume (*Adjusting Sound and Notification Volume, page 44*) and display brightness (*Adjusting the Screen Brightness, page 2*).
- Set up a vehicle profile.
- Navigate to your destination (*Starting a Route, page 29*).

Acquiring GPS Signals

When you turn on your navigation device, the GPS receiver must collect satellite data and establish the current location. The time required to acquire satellite signals varies based on several factors, including how far you are from the location where you last used your navigation device, whether you have a clear view of the sky, and how long it has been since you last used your navigation device. The first time you turn on your navigation device, it may take several minutes to acquire satellite signals.

1. Turn on the device.
2. Verify ♥ appears in the status bar, and enable location services if it does not (*Enabling or Disabling Location Services, page 44*).
3. If necessary, go to an open area with a clear view of the sky, away from tall buildings and trees.

   ♥ appears at the top of the navigation map until the device determines your location.

Status Bar Icons

The status bar is located at the top of the main menu. The status bar icons display information about features on the device. You can select some icons to change settings or view additional information.

♥	Location services status. Indicates your location has been established.
✶	Bluetooth® technology status.
▼	Wi-Fi® signal strength.
🛷	Active vehicle profile.
9:10	Current time.
🔋	Battery charge level.
🛷	Tread app connection status (*Pairing with Your Smartphone, page 26*).

Using the Touchscreen

- Tap the screen to select an item.
- Drag or swipe your finger across the screen to pan or scroll.
- Pinch two fingers together to zoom out.
- Spread two fingers apart to zoom in.

Steering Wheel Controls

In some vehicles, you can control menus on your navigation system using the steering wheel controls. See your vehicle owner's manual for more information about vehicle controls.

Using the On-Screen Buttons

On-screen buttons allow you to navigate the pages, menus, and menu options on your device.

- Select the brand logo icon to see the vehicle information page.
- Select ⊞ to quickly return to the main menu.
- Select ❮ to return to the previous menu screen.
- Select ⋀ or ⋁ to scroll through lists or menus.
- Hold ⋀ or ⋁ to scroll faster.
- Select ☰ to see a context-based menu of options for the current screen.

Adjusting the Screen Brightness

You can adjust the brightness manually, using either the notification panel or the settings menu.

1   Select an option:
   - Swipe down twice from the top of the screen to expand the quick settings in the notification panel.
   - Select ⚙ > **Device** > **Display** > **Brightness level**.
2   Use the slider bar to adjust the brightness.

Vehicle Profiles

⚠ WARNING

Entering your vehicle profile characteristics does not guarantee that your vehicle's characteristics will be accounted for in all route suggestions. Limitations may exist in map data for some route suggestions. Always defer to all posted road signs and conditions during vehicle operation. Failure to do so could lead to an accident involving personal injury or death.

The current vehicle profile is indicated by an icon in the status bar.

	Side-by-side profile
	Snowmobile profile

Editing a Vehicle Profile

You can change basic vehicle profile information or add detailed information to a vehicle profile, such as maximum speed.

1   Select **Apps** > **Navigation** > **Vehicle Profile**.
2   Select a vehicle profile to edit.
3   Select an option:
   - To edit the vehicle profile information, select 🔧, and select a field to edit.
   - To rename the vehicle profile, select 🔧 > **Rename Profile**.
   - To delete the vehicle profile, select 🔧 > **Delete**.

Off-Road Navigation Features

Routes
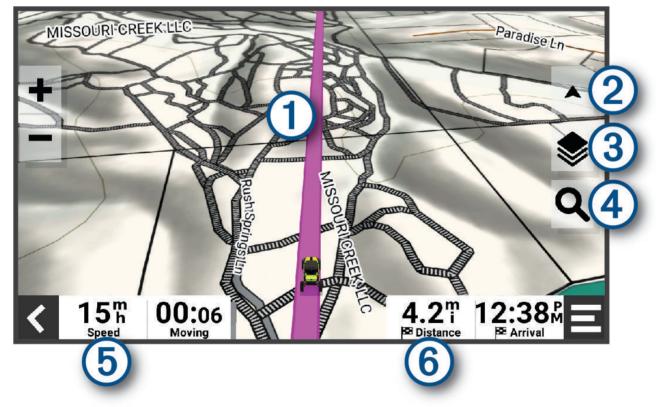
A route is a path from your current location to one or more destinations.

- For off-road use, you can set the device to calculate point-to-point routes in a straight line (*Straight Line Routes*, page 3).
- The device calculates a recommended route to your destination based on the preferences you set, including the route calculation mode (*Changing the Route Calculation Mode*, page 33) and avoidances (*Avoiding Delays, Tolls, and Areas*, page 32).
- The device can automatically avoid roads that are not appropriate for the active vehicle profile.
- You can start navigating to your destination quickly using the recommended route, or you can select an alternate route (*Starting a Route*, page 29).
- If there are specific roads you need to use or avoid, you can customize the route.
- You can add multiple destinations to a route (*Adding a Location to Your Route*, page 31).

Straight Line Routes

For areas without defined roads or trails, the device guides you to your destination using a straight line route. You can set multiple waypoints to navigate a route through areas without roads.

TIP: You can customize the data fields that appear on the map screen (*Changing the Map Data Field*, page 13).

①	Route highlighted on the map.
②	Map perspective. Allows you to change the map orientation.
③	Map layers. Allows you to add topographic and BirdsEye imagery to your map view.
④	Search. Allows you to search for locations and points of interest.
⑤	Vehicle speed.
⑥	Distance to the destination.

Skipping the Next Stop on Your Route

Before you can skip the next stop on your route, you must enable the skip button on the map (*Changing the Map Buttons*, page 13).

You can skip an upcoming location you previously added to your route.

From the map, select 🔀 > **Yes**.

Stopping the Route
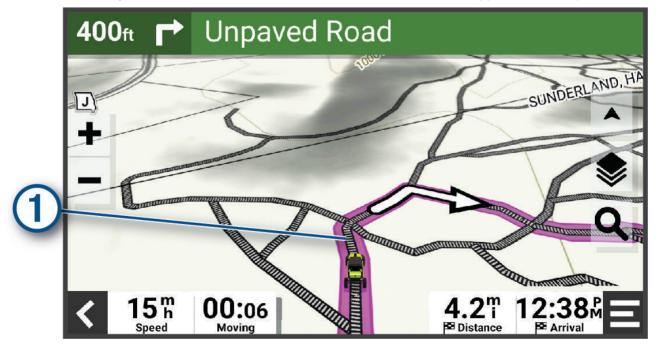
From the map, select ▤ > **Stop**.

Adventure Roads and Trails

⚠ WARNING

Entering your vehicle profile characteristics does not guarantee that your vehicle's characteristics will be accounted for in all route suggestions. Limitations may exist in map data for some route suggestions. Always defer to all posted road signs and conditions during vehicle operation. Failure to do so could lead to an accident involving personal injury or death.

This device can navigate off-highway roads and trails based on your vehicle profile. Trails ① are color coded based on accessibility. You can select ⬙ to set which adventure roads and trails appear on the map.

Tracks

A track is a recording of your path. The track log contains information about the recorded path, including time, location, and elevation information.

Recording Tracks

Tracking records your path. When you start tracking, your device logs your location and updates the track line. If your device is paired with a Garmin Explore™ account, your device periodically synchronizes recorded tracks with the app.

1 Select **Apps** > **Adventure** > **Track Recorder**.
2 Select **Start**.

Navigating a Track

You can navigate a saved track using the Garmin Explore app on your device.

1 Select **Apps** > **Adventure** > **Explore** > **Tracks**.
2 Select a track.
3 Select **Go!**.

Viewing Your Collections on the Map

Before you can view the Collections map layer, you must pair your device with the Tread app and sync your device with your Garmin Explore account.

You can view your Garmin Explore collections directly on the map. You must enable the collections map layer to use this feature.

NOTE: If you do not assign a collection category to your Garmin Explore data, it appears as an unorganized collection.

1 Select **Map** > ⬙ > **Collections**.
2 Select one or more collection categories from the list.
3 Select **Save**.

Your collections appear as icons on the map.

Pitch and Roll

⚠ WARNING

The Pitch and Roll application is intended to show vehicle angles based on calibrated measurements only. You are responsible for calibrating the device. Changes to the position of the device after calibration may affect the accuracy of its measurements. Measured values are suggestions only based on your input into the device. Take readings often and carefully, and allow the readings to stabilize after significant changes in environmental conditions. Always allow a margin of safety for changing conditions and reading errors. Failure to account for your vehicle and your environment could cause an incident resulting in death or serious injury.

The device alerts you if your vehicle pitches or rolls at an angle that could affect the vehicle's stability.

Calibrating Pitch and Roll

You can set the angle of your vehicle to zero at any time.

1 Park your vehicle on a flat, level surface.
2 Select **Apps** > **Adventure** > **Pitch and Roll**.
3 Select **Calibrate**.

The values for pitch and roll reset to 0 degrees.

Enabling or Disabling Warning Angle Alerts

1 Select **Apps** > **Adventure** > **Pitch and Roll**.
2 Select ⋮.
3 Select an option:
   - To enable or disable pitch and roll notifications, select **Pitch and Roll Notifications**.
   - To enable or disable audible alerts, select **Audible Alerts**.

Adjusting Warning Angles

You can adjust the angles at which the device activates a pitch or roll alert. You are responsible for knowing and setting the correct pitch and roll angle for your vehicle.
1 Select **Apps** > **Adventure** > **Pitch and Roll**.
2 Select ⋮ > **Warning Angles**.
3 Swipe up or down to adjust the pitch or roll warning angles.
4 Select **Accept**.

Viewing the Altimeter, Barometer, and Compass

The device contains internal altimeter, barometer, and compass sensors with automatic calibration.

   Select **Apps** > **Adventure** > **ABC**.

Group Ride

The Group Ride app allows you to coordinate rides and communicate with nearby riders using preset text messages, live map locations, and voice communications. You can pair your Tread device with the Tread app on your smartphone to enable Group Ride tracking features.

Voice communication and preset messaging require a Group Ride accessory, which is not included with all product models. The voice communication feature is not available in all areas. Go to garmin.com/tread for more information, or to purchase a Group Ride accessory.

Starting a Group Ride

You can create a group ride that allows you to choose the group radio channel, view and remove riders who join your group ride, and set the group ride name. You can create a group ride using a connected Group Ride mount, the Tread app, or both.
1 From the main menu, select **Group Ride** > **Start a Group Ride**.
2 Select an option:
   - To start a group ride with riders that have a Group Ride mount, select **Create a Radio Group Ride**.
   - To start a group ride with riders using the Tread app, select **Create a Mobile Group Ride**.
3 If necessary, select the radio channel, and select **Next**.
4 Enter your rider name, and select **Done**.
5 Enter the ride name, and select **Done**.
   As riders join your group ride, their names appear on the list.
6 Select **Start**.
   The group ride begins after all of the riders sync with the group ride.

Joining a Group Ride

You can join a nearby group ride that was created by another rider.
1 From the main menu, select **Group Ride** > **Join a Group Ride**.
2 Enter the Ride ID, and select **Done**.

Rejoining a Recent Group Ride

You can rejoin any of your ten most-recent group rides.

1 From the main menu, select **Group Ride** > **Recent Group Rides**.
2 Select a recent group ride, and select **Join**.

Adding Riders to a Radio Group Ride

You can add riders to a radio group ride that is already in progress.

1 From the main menu, select **Group Ride**.
2 If necessary, select ![icon].
3 Select **Add**.

As new riders join the group ride, they appear on the list.

4 Select **Continue**.

Broadcasting a Message

⚠ **WARNING**

Do not read, send, or reply to any messages while driving, because doing so can cause a distraction that could lead to an accident resulting in serious personal injury or death.

You can broadcast a preset message to the members in your active group ride that are in range of the VHF radio.

1 From the main menu, select **Group Ride**.
2 If necessary, select ![icon].
3 Select **Broadcast to Group**.
4 Select a preset message, and select **Send**.

Broadcasting a Location

⚠ **WARNING**

While driving, do not interact with the display to broadcast your location, because doing so can cause a distraction that could lead to an accident resulting in serious personal injury or death.

You can broadcast a location to the members in your active group ride that are in range of the VHF radio.

1 From the main menu, select **Group Ride**.
2 If necessary, select ![icon].
3 Select **Broadcast to Group** > **Broadcast a Location**, and select a location.
4 Select **Share**.

Viewing a Group Ride Notification

⚠ **WARNING**

Do not read or reply to any notifications while driving, because doing so can cause a distraction that could lead to an accident resulting in serious personal injury or death.

For most pages, a notification appears when the device receives a broadcasted group ride location or message. You can also view group ride notifications in the Group Ride app.

NOTE: When you are viewing the map, new notifications appear in a map tool at the edge of the screen.

1 From the main menu, select **Group Ride** > ![icon], and select a notification.
2 Select **Go!** to navigate to a shared location.

Exiting a Group Ride

1 From the main menu, select **Group Ride**.
2 If necessary, select ![icon].
3 Select **Exit** > **Yes**.

Group Ride Settings

From the main menu, select **Group Ride** > ![icon].

Edit Rider Name: Allows you to set your name that displays during a group ride. This setting is not available during an active group ride.

Rider Map Labels: Sets the label displayed for each active rider on the map.

Show Tracks on Map: Shows the track that each group ride member takes on the map.

Reset Default Settings: Allows you to reset all group ride settings to default values. This setting is not available during an active group ride.

Radio

NOTE: This feature is not available on all product models.

You can use the Radio app to create radio presets, select a radio channel, and select squelch codes. To use this feature, you must connect the device and the antenna to the Group Ride mount. The Tread device configures radio settings automatically when you join or create a group ride.

Selecting a Preset

NOTE: For some product models, the Radio app is located in the apps menu.

1 From the main menu, select **Apps** > **Adventure** > **Radio**.
2 Select an option:
   - To move through the available presets, select ▲ or ▼.
   - To select a preset from the menu, select **Presets**.

Selecting a Radio Channel

1 From the main menu, select **Apps** > **Adventure** > **Radio**.
2 Select an option:
   - To move to a different channel, select ![icon] or ![icon].
   - To select a MURS channel from the menu, select **Channel**.

Adjusting the Squelch

You can adjust the squelch and change between CTCSS, DCS, and Open squelch modes to improve audio quality and avoid radio interference in your area.

1 From the main menu, select **Apps** > **Adventure** > **Radio**.
2 Select an option:
   - To choose a squelch code within the current mode, select ![icon] or ![icon].
   - To adjust the squelch mode, select **Open**.

Adding a Custom Radio Preset

1 Select **Apps** > **Adventure** > **Radio** > **Presets** > ⊕.
2 Select ![icon] or ![icon] to select a channel and squelch code.
3 Select **Save**.

Selecting a Roger Tone

You can select the tone other devices play when you operate your radio.

1 Select **Apps** > **Adventure** > **Radio** > 🔧 > **Roger Tone**.

2 Select a roger tone.

The device plays the selected tone.

3 Select **Save**.

Turning the Radio Off

Select **Apps** > **Adventure** > **Radio** > ⏻ > **Yes**.

Enabling Push-to-Talk with a Headset

You can enable push-to-talk controls for use with a compatible Bluetooth headset. This allows you to transmit your voice using the voice dial feature on your headset.

1 Select **Apps** > **Adventure** > **Radio** > 🔧 > **Push to Talk with Headset**.

2 If necessary, follow the on-screen instructions to pair your headset with the device.

3 Select **Push to Talk with Headset**.

4 Select ✔.

Transmitting Your Voice

Before you can transmit your voice, you must pair your Tread device with a compatible Bluetooth headset.

You can transmit your voice over the radio using a compatible Bluetooth headset.

Select an option:

- From the main menu, select **Apps** > **Adventure** > **Radio** > **Push to Talk**.
- Use the voice dial feature on your connected Bluetooth headset.

  TIP: You can press the pause or stop button to manually close the radio.

  NOTE: You must enable the **Push to Talk with Headset** setting to use this feature.

Adjusting the Radio Volume

1 Select **Apps** > **Adventure** > **Radio** > 🔊.

2 Use the slider bars to adjust the volume.

Radio Settings

From the main menu, select **Apps** > **Adventure** > **Radio** > 🔧.

Push to Talk with Headset: Enables you to transmit your voice using the push-to-talk button on your compatible headset.

Roger Tone: Sets the roger tone the device plays when you operate your radio.

Reset Default Settings: Resets all radio settings and presets to factory default values.

inReach˚ Remote

The inReach remote function allows you to control your inReach satellite communication device (sold separately) using your Tread device. You can send messages, view weather reports, trigger an SOS alert, and more. Go to buy.garmin.com to purchase an inReach device.

Connecting an inReach Device

1 Bring the inReach device within 3 m (10 ft.) of your Tread device.

2 On your Tread device, select **Apps** > **Adventure** > **inReach**.

3 Follow the on-screen instructions on your Tread device to complete the pairing process.

After the pairing process is complete, the inReach and Tread devices connect automatically when they are within range.

Sending a Text Message

1   Select **Apps** > **Adventure** > **inReach** > **Compose**.
2   Select **To:**, and add one or more contacts.
3   Select **Message:**, and enter a message.
4   Select **Send**.

SOS

Before you can use the SOS function, you must have an active satellite subscription. Always test your device before you use it outdoors.

Ensure you have a clear view of the sky when using the SOS function, because this feature requires satellite access to operate properly.

Some jurisdictions regulate or prohibit the use of satellite communications devices. It is the responsibility of the user to know and follow all applicable laws in the jurisdictions where the device is intended to be used.

During an emergency, you can use your paired inReach satellite communicator to contact the Garmin Response℠ center to request help. The SOS feature sends a message to the Garmin Response team, and they notify the appropriate emergency responders of your situation. You can communicate with the Garmin Response team during your emergency while you wait for help to arrive. You should only use the SOS function in a real emergency situation.

Initiating an SOS Rescue

Before you can initiate an SOS rescue using your Tread navigator, you must pair it with a compatible inReach satellite communicator (*Connecting an inReach Device*, page 9).

While the device is in SOS mode, do not turn off or attempt to turn off the inReach satellite communicator. Doing so could prevent this feature from operating properly and could delay receipt of assistance in the event of an emergency.

1   Select **Apps** > **Adventure** > **inReach**.
2   Select [SOS icon].
3   Wait for the SOS countdown.

   The device sends a default message to the emergency response service with details about your location.

4   Reply to the confirmation message from the emergency response service.

   Your reply lets the emergency response service know that you are capable of interacting with them during the rescue.

   For the first 10 minutes of your rescue, an updated location is sent to the emergency response service every minute. To conserve battery power after the first 10 minutes, an updated location is sent every 10 minutes when moving, and every 30 minutes when stationary.

Canceling an SOS Rescue

If you no longer need assistance, you can cancel an SOS rescue after it is sent to the emergency response service.

   Select **Cancel SOS**.

Your device transmits the cancellation request. When you receive a confirmation message from the emergency response service, the device returns to normal operation.

Using the Map

You can use the map to navigate a route (*Your Route on the Map*, page 30) or to view a map of your surroundings when no route is active.

1 Select **Map**.
2 Touch anywhere on the map.
3 Select an option:
   - Drag the map to pan left, right, up, or down.
   - To add or remove map layers such as topographic and BirdsEye imagery, select ▧.
   - To zoom in or out, select ➕ or ➖.
   - To switch between North Up, 2-D, and 3-D views, select ▲.
   - To open the route planner, select 📍 (*Route Planner*, page 17).
   - To start a route, select a location on the map, and select **Go!** (*Starting a Route by Using the Map*, page 29).

Map Tools

Map tools provide quick access to information and device functions while you view the map. When you activate a map tool, it appears in a panel at the edge of the map.

Stop: Stops navigation of the active route.

Edit Route: Allows you to take a detour or skip locations in your route (*Changing Your Active Route*, page 31).

Mute: Mutes the device audio.

Cities Ahead: Displays upcoming cities and services along your active route or along a highway (*Cities Ahead*, page 12).

Up Ahead: Displays upcoming locations along the route or the road on which you are traveling (*Up Ahead*, page 11).

Elevation: Displays upcoming elevation changes.

Trip Data: Displays customizable trip data, such as speed or mileage (*Viewing Trip Data from the Map*, page 12).

Track Recorder: Displays the track data for your active track.

Turns: Displays a list of upcoming turns in your route (*Viewing Turns and Directions*, page 31).

Music Player: Displays media controls and media information.

Pitch and Roll: Displays the current angle of your vehicle (*Pitch and Roll*, page 5).

Group Ride: Displays the distance and direction of the members in your group ride (*Group Ride*, page 6).

Viewing a Map Tool

1 From the map, select ☰.
2 Select a map tool.
   The map tool appears in a panel at the edge of the map.
3 When you are done using the map tool, select ✖.

Up Ahead

The Up Ahead tool provides information about upcoming locations along your route or the road on which you are traveling. You can view upcoming points of interest by category, such as restaurants, fuel stations, or rest areas.

You can customize the categories that show in the Up Ahead tool.

Viewing Upcoming Locations

1   From the map, select ≡ > **Up Ahead**.

    While you are traveling, the map tool shows the next location along your road or route.

2   Select an option:

    • If the map tool shows categories, select a category to view a list of nearby locations in that category.

    • If the map tool shows upcoming locations, select a location to view location details or start a route to the location.

Customizing the Up Ahead Categories

You can change the location categories that appear in the Up Ahead tool.

1   From the map, select ≡ > **Up Ahead**.

2   Select a category.

3   Select ✎.

4   Select an option:

    • To move a category up or down in the list, select and drag the arrow next to the category name.

    • To change a category, select the category.

    • To create a custom category, select a category, select **Custom Search**, and enter the name of a business or category.

5   Select **Save**.

Cities Ahead

While you are traveling on a highway or navigating a route that includes a highway, the Cities Ahead tool provides information about upcoming cities along the highway. For each city, the map tool shows the distance to the highway exit and the services available, similar to the information on highway road signs.

Viewing Upcoming Cities and Exit Services

1   From the map, select ≡ > **Cities Ahead**.

    While you are traveling along a highway or an active route, the map tool shows information about upcoming cities and exits.

2   Select a city.

    The device shows a list of points of interest located at the selected city exit, such as fuel stations, lodging, or restaurants.

3   Select a location, and select **Go!** to start navigating.

Trip Information

Viewing Trip Data from the Map

From the map, select ≡ > **Trip Data**.

Customizing the Trip Data Fields

1   From the map, select ≡ > **Trip Data**.

2   Select a trip data field.

3   Select an option.

    The new trip data field appears in the trip data map tool.

Resetting Trip Information

1   From the map, select **Speed**.

2   Select a trip information data field.

3   Select ≡ > **Reset Field(s)** > **Reset Overall Data**.

Viewing Upcoming Elevation Changes

You can view upcoming elevation changes along your route. This can help you avoid or plan for steep uphill or downhill grades.

1   From the map, select ☰ > **Elevation**.
2   Select the chart to expand it to the full screen.

The device displays your current elevation, and a chart of elevation over distance.

3   Select an option:
   *   Select ➕ or ➖ to change the distance range of the chart.
   *   Select the arrows to scroll the chart.

Customizing the Map

Customizing the Map Layers

You can customize which data appear on the map, such as icons for points of interest and road conditions.

1   Select ⚙ > **Map Display** > **Map Layers**.
2   Select the layers to include on the map, and select **Save**.

Viewing the Public Lands Map Key

Public lands are color-coded on the map to show who owns a specific plot of land. For example, you can see if a plot of land is privately owned or if it is part of a national park. You must enable the public lands map layer to use this feature (*Customizing the Map Layers*, page 13).

You can view the legend for these colors on the device.

Select ⚙ > **Map Display** > **Map Layers** > ⓘ > **Public Lands**.

Enabling Adventure Roads and Trails Map Layers

You can enable or disable map layers that display accessible or inaccessible roads for different types of motor vehicles.

1   Select ⚙ > **Map Display** > **Map Layers** > ⓘ > **Adventure Roads & Trails**.
2   Select a road or trail type.

Changing the Map Data Field

1   From the map, select a data field.

NOTE: You cannot customize Speed.

2   Select a type of data to display.

Changing the Map Buttons

1   From the map, hold a map button.
2   Select an option:
   *   To replace a map button, select a map button, and select a map button to display.
   *   To remove a map button, select 🗑.
3   Select **Save**.

Changing the Map Perspective

1 Select ⚙ > **Map Display** > **Driving Map View**.
2 Select an option:
   - Select **Track Up** to display the map in two dimensions (2-D), with your direction of travel at the top.
   - Select **North Up** to display the map in 2-D with north at the top.
   - Select **3-D** to display the map in three dimensions.
   - Select **Auto Zoom to Group** to automatically adjust the zoom level so all riders in a group ride are visible on the map.
3 Select **Save**.

Dog Tracking

The dog tracking features allow you to see information transmitted from your compatible Garmin® handheld dog device on your Tread device. You can navigate to your dogs, view their current status and location, and observe the distance they have traveled.

Receiving Data From Your Handheld Device

Before you can receive data, you must enable broadcasting on your handheld dog device. See the owner's manual for your handheld dog device for more information.

Place your handheld dog device within 3 m (10 ft) of your Tread device.

TIP: Your Tread device receives data from one compatible handheld dog device at a time. Stay more than 3 m (10 ft) away from other handheld dog devices or disable broadcasting on handheld dog devices from which you do not want to receive data.

The devices connect and synchronize automatically.

Tracking Your Dogs

1 Select **Apps** > **Adventure** > **Dog Tracker**.
   The dogs connected to your handheld dog device appear on the screen.
2 Select a dog.
   The dog's location and track log appear on the map.
3 Select **Go!** to navigate to your dog.

Dog Status Icons

Icons indicate the status and location of your dogs.

🐕	Sitting
🐕	Running
🐕	On point
🐕	Treed
?	Unknown*
🔋	Collar battery low
📡	Collar connection lost
📡	Collar GPS reception lost

*The unknown status icon indicates the collar has not acquired a satellite signal and the handheld device cannot determine the location of the dog.

Viewing Your Dogs on the Map

1 While viewing the map, select anywhere on the map.
2 Select 🐾.

The device zooms to show all of your dogs on the screen.

Using the Apps

Vehicle Information

You can use the vehicle information page to view the status of your vehicle. For example, you can view the vehicle's speed, temperature, and fuel gauge.

You can select the vehicle brand icon to view the vehicle information page at any time.

Changing the Vehicle Information Data Fields

You can customize the data fields on the vehicle information page.

1 Select the vehicle brand icon.
2 Select a data field.
3 Select a type of data to display.

Resetting Vehicle Information Data Fields

You can reset the trip, odometer, and engine hours data fields.

1 Select the vehicle brand icon.
2 Select a data field, and select ⋮ > **Reset Field(s)**.
3 Select a type of data to display.
4 Select **Reset**.

Music Player

The media player allows your device to control the media currently playing from a media app on your paired phone. You can open the media player at any time by selecting Media from the main menu.

①	Information about the currently playing media, such as title, artist, album, station, or channel.
②	Progress through the current media item.
③	Playback controls. The controls change based on the service providing the media.
④	Select to hide or shrink the media player.

Adding the Music Player Tool to the Map

The music player map tool enables you to control the music player from your map.

1 Open the map.
2 Select **≡** > **Music Player**.

The music player controls appear on the map.

BirdsEye Imagery

BirdsEye imagery provides downloadable, high-resolution map imagery, including detailed satellite imagery and raster-based topographical maps. You can download BirdsEye Satellite Imagery directly to your device when it is connected to a Wi-Fi network.

Downloading BirdsEye Imagery

Before you can download BirdsEye imagery directly to your device, you must connect to a wireless network (*Connecting to a Wireless Network*, page 43).

1 Select **Apps** > **Adventure** > **BirdsEye Direct**.
2 Select ⬇.
3 Select an option:
   - To download BirdsEye imagery files for a specific location or area, select **Location**, and select a category.
     NOTE: The location defaults to your current location.
   - To select an image quality option, select **Detail**.
   - To define the size of the area to be shown in the downloaded imagery files, select **Size**, and enter a distance from the selected location.
   - To select where to save the downloaded imagery, select **Save To**.
4 Select **Download**.
5 Enter a name for the downloaded imagery and select **Done**.

Route Planner

You can use the route planner to create and save a route, which you can navigate later. This can be useful for planning a delivery route, a vacation, or a road trip. You can edit a saved route to further customize it, including reordering locations, adding suggested attractions, and adding shaping points.

You can also use the route planner to edit and save your active route.

Planning a Route

A route can include many locations, and it must include at least a starting location and one destination. The starting location is the location from which you plan to start your route. If you start navigating the route from a different location, the device gives you the option to route to your starting location first. For a round trip, the starting location and final destination can be the same.

1 Select **Apps** > **Navigation** > **Route Planner** > **Create Route**.
2 If necessary, select a calculation mode.
   NOTE: The Turn-by-Turn mode is selected by default.
3 Select an option to choose a location for your starting point:
   - Select a location on the map.
   - Select 🔍, and search for a location (*Finding a Location Using the Search Bar*, page 34).
4 Repeat step 3 to add more locations.
   NOTE: The last location you add is the destination.
5 After you have added all the necessary locations, select 💾.

Editing and Reordering Locations in a Route

1 Select **Apps** > **Navigation** > **Route Planner**.
2 Select a saved route.
3 Select **List**.
4 Select a location.
5 Select an option:
   - To change the location, select 🔧, and enter a new location.
   - To move the location up or down, select ↕, and drag the location to a new position in the route.
   - To add a new location after the selected location, select ⊕.
   - To remove the location, select 🗑.

Changing Routing Options for a Route

You can customize how the device calculates your route.

1 Select **Apps** > **Navigation** > **Route Planner**.
2 Select a saved route.
3 Select ✐.
4 Select an option:
    - To add shaping points to your route, select **Shaping**, and select at least one location.
    - To change the calculation mode for the route, touch a route segment, and select a calculation mode.

Navigating to a Saved Route

1 Select **Apps** > **Navigation** > **Route Planner**.
2 Select a saved route.
3 Select **Go!**.
4 Select the first location to navigate to, and select **OK**.
5 Select **Start**.

    The device calculates a route from your current location to the selected location, and then it guides you to the remaining route destinations in order.

Editing and Saving Your Active Route

If a route is active, you can use the route planner to edit and save it.

1 Select **Apps** > **Navigation** > **Route Planner** > **My Active Route** > ✐.
2 If necessary, edit your route using any of the route planner features.

    The route recalculates each time you make a change.
3 If necessary, select ✔ to confirm your changes.
4 Select **Save** to save your route, which you can navigate again later (optional).

TracBack˚

Following Your Recent Track

The TracBack feature records the most recent segment of your movement. You can retrace your recent track back to a previous location.

1 Select **Apps** > **Adventure** > **TracBack**.

    Your recent track appears on the map.
2 Select **Go!**.

Saving Your Recent Track as a Route

You can save your recent track as a route, which you can navigate later using the route planner (*Navigating to a Saved Route*, page 18).

1 Select **Apps** > **Adventure** > **TracBack**.

    Your recent track appears on the map.
2 Select 🔧 > **Save as Route**.
3 Enter a name for the route, and select **Done**.
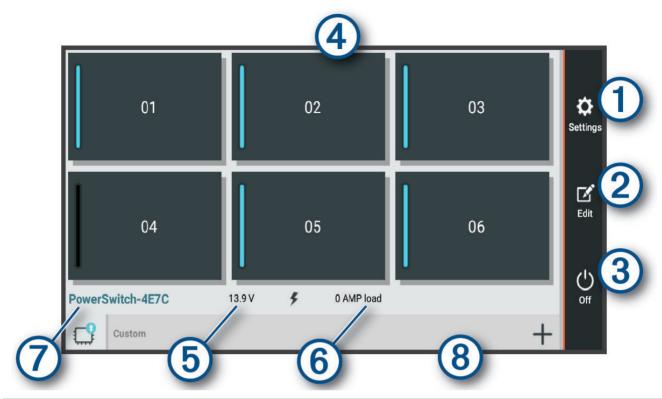
Creating a Round-Trip Route

The device can create a round-trip route using a specified starting location and a distance, duration, or destination.

1 From the main menu, select **Apps** > **Navigation** > **Round Trip**.

2 Select **Start Location**.

3 Select a location, and select **Select**.

4 Select **Trip Attributes**.

5 Select an option:
   - Select **Choose a Distance** to plan your route by distance.
   - Select **Choose a Duration** to plan your route based on time.
   - Select **Choose a Destination** to plan your route based on a specified location.

6 Select **Next**.

7 Enter a distance, duration, or destination.

8 Select an option:
   - If you entered a distance or duration, select **Done**.
   - If you selected a destination, select **Select**.

9 Select **Add a Direction**.

10 Select a direction, and select **Next**.

11 Select **Calculate**.

12 Select one or more options:
   - Select ⛰ to view elevation statistics along your route.
   - Select ✎ to shape your route.
   - Use the slider to increase or decrease the level of adventure on your route.
   - Select 🔧, and select one or more route features.

13 Select a route, and select **Go!**.

Garmin PowerSwitch™ App

① ⚙	Opens the app settings menu
② 🖉	Enters editing mode to customize the app layout and functions
③ ⏻	Turns off all outputs
④ Power buttons	Activates each connected output
⑤	Displays input voltage
⑥	Displays the total amperage of the selected Garmin PowerSwitch device
⑦	Displays the device name
⑧	Displays Garmin PowerSwitch device tabs and custom layout tabs

Activating a Power Switch

Before you can use the Garmin PowerSwitch app to activate a switch, you must install your Garmin PowerSwitch device in your vehicle and pair it with the Garmin PowerSwitch app.

From the Garmin PowerSwitch app, select a power button to turn a switch on or off.

Turning Off All Switches

Select ⏻.

Customizing a Button

1 From the Garmin PowerSwitch app screen, select ✐.

The app enters editing mode.

2 Select ✐ on the button you want to customize.

3 Select an option:

- To change the name of the button, select the **Button Label** field, and enter a name.
- To add an icon to the button, select the **Icon** field, and select an icon.
- To change the button color, select a color.
- To change the button mode, select a button mode.
- To adjust the intensity of the switch, use the slider.
- To set the button to activate with a control input, select a control input.

4 Select ⟨.

5 Select **Done**.

Assigning a Switch to a Control Input

Before you can use control input functions, you must connect a control input to your Garmin PowerSwitch device (*Connecting a Control Input*, page 50).

You can assign one or more switches to turn on when the Garmin PowerSwitch device receives a signal from a control input.

1 Select ⚙.

2 Select your Garmin PowerSwitch device.

3 Select a control input.

4 Select one or more switches.

Adding a Custom Layout

You can add a custom layout tab to the Garmin PowerSwitch app. Buttons added to a custom layout can control multiple switches at the same time.

1 From the Garmin PowerSwitch app, select ✐.

The device enters editing mode.

2 Select ➕.

Adding a Button to a Custom Layout

1 From the Garmin PowerSwitch app, select a custom layout tab.
2 Select ⬚.
   The app enters editing mode.
3 Select **Add Button**.
4 On the new button, select ⬚.
5 Select an option:
   • To change the name of the button, select the **Button Label** field, and enter a name.
   • To add an icon to the button, select the **Icon** field, and select an icon.
   • To change the button color, select a color.
6 Select **Add Action**.
7 If necessary, select a Garmin PowerSwitch device and a switch.
8 Select an action:
   • To set the button to turn the switch on or off with each press, select **Toggle**.
   • To set the button to turn on the switch, select **Turn On**.
   • To set the button to turn off the switch, select **Turn Off**.
9 Select a button mode:
   • To set the button to activate with one touch, select **Normal**.
   • To set the button to activate only while touching the button, select **Momentary**.
   • To set the button to turn on and off repeatedly, select **Strobe**, and select time intervals.
10 If applicable, use the slider to set the brightness of lights.
11 Select ❮.
12 If necessary, select **Add Action** to add additional actions for the button.
   You can add one action for every switch on the Garmin PowerSwitch device.

Arranging Buttons In a Custom Layout

1 From the Garmin PowerSwitch app, select a custom layout tab.
2 Select ⬚.
   The app enters editing mode.
3 On the button you want to move, hold ⤢, and drag the button to a new location.

Deleting a Custom Layout or Button

1 From the Garmin PowerSwitch app, select a custom layout tab.
2 Select ⬚.
   The app enters editing mode.
3 Select an option:
   • To delete a button, select 🗑 on the button you want to delete.
   • To delete a layout tab, select 🗑 on the layout tab.

Routines

Routines automate your Garmin PowerSwitch device. When you define a routine on your compatible Garmin navigation device, it turns switches on or off automatically when the conditions of the routine are met. For example, you can set a routine to turn on a switch at specific time each day or when your vehicle reaches a specific speed. Routines are available only when using a compatible Garmin navigation device.

Adding a Routine

1 From the Garmin PowerSwitch app, select ⚙ > **Routines**.

2 If necessary, select **Add Routine**.

3 Select **When**.

4 Select a trigger:

- To set a switch to trigger when your vehicle reaches a specific speed, select **Speed** > **Next**, and follow the on-screen instructions to enter speed thresholds.
- To set a switch to trigger at a specific time each day, select **Time** > **Next**, and enter a time.
- To set a switch to trigger at sunrise, select **Sunrise**.
- To set a switch to trigger at sunset, select **Sunset**.

5 Select **Add Action**.

6 Select a device, a switch, an action, and a button mode.

7 If necessary, use the slider to adjust the dimmer.

8 Select **Save**.

Editing a Routine

1 From the Garmin PowerSwitch app, select ⚙ > **Routines**.
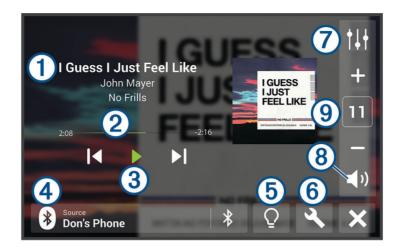
2 Select 🔧 on the routine you want to edit.

3 Select an option:

- To change the trigger for the routine, select **When**, and select a trigger.
- To change an action, select 🔧 on the action you want to change, and update the action.
- To add an action to the routine, select **Add Action**, and enter information about the action.

4 Select **Save**.

Deleting a Routine

1 From the Garmin PowerSwitch app, select ⚙ > **Routines**.

2 Select 🗑 on the routine you want to delete.

Tread Audio App

Before you can use the controls in the Tread Audio app, you must install your Tread Audio Box and Tread 6.5" XS-LED Tower Speakers in your vehicle and pair the Tread Audio Box with the Tread Audio app.

①	Displays information about the currently playing media, such as title, artist, album, station, or channel.
②	Displays progress through the current media item.
③	Displays playback controls. The controls change based on the service providing the media.
④	Displays the current audio source. ※ indicates the media is being played by another media app on your phone and sent to the device using a Bluetooth media connection.
⑤	Opens the LED controls.
⑥	Opens the app settings menu.
⑦	Opens the volume zone controls.
⑧	Mutes the audio.
⑨	Increases or decreases the volume.

LED Controls

The LED controls allow you to control the LED lights on your connected Tread 6.5" XS-LED Tower Speakers and optional, addressable LEDs. You can set the color of the LEDs, sync the LEDs to your music or the speed of your vehicle, and display a call sign color during a group ride.

Enabling LED Groups

By default, the controls for LED groups RGB 1 and RGB 2 are enabled. Enabling an LED group allows you to use the LED lighting controls for that group. You can enable the LED group for the Tread 6.5" XS-LED Tower Speakers or any additional speakers or addressable LEDs after you set up and pair them with your Tread Audio Box.

1 Select 💡.

2 Select the LED group.

Changing the Media Source

You can change the source from which media is played on your device.

1 Select the current media source ①.

2 Select an available media source from the list.

LED Light Settings

Select 💡.

Set Color: Sets the color of the LED lights.

Music Sync: Syncs the LED lights to music playback.

Speed Sync: Syncs the LED lights to the vehicle's speed.

Group Ride Sync: Sets the LED lights to display a call sign color during a group ride.

Audio Zone Settings

Select 🔧 > **Stereo Settings** > **Audio Zones**, and if necessary, select a zone.

Zone Name: Sets the name of the zone.

Loud: Boosts the high and low frequencies.

Subwoofer Filter: Sets the low-pass frequency of the subwoofer.

Bass: Sets the relative volume of low-frequency audio.

Middle: Sets the relative volume of middle-frequency audio.

Treble: Sets the relative volume of high-frequency audio.

Live Services, Traffic, and Smartphone Features

> ⚠️ **WARNING**
>
> Do not read or interact with notifications while driving, because doing so can cause distraction which could lead to an accident resulting in serious personal injury or death.

> ***NOTICE***
>
> Garmin is not responsible for the accuracy or timeliness of the traffic information.

The Tread app allows your device to receive smart notifications and live information, such as live traffic data and weather information.

Live traffic data: Sends live traffic data to your device, such as traffic incidents and delays, construction zones, and road closings.

Weather information: Sends real-time weather forecasts, road conditions, and weather radar to your device.

Hands-Free calling: Allows you to place and receive phone calls through the device using your connected Bluetooth headset.

Send locations to device: Allows you to send locations from your smartphone to your navigation device.

Bluetooth Feature Status Icons

Status icons appear in the Bluetooth settings next to each paired device.

Select ⚙ > **Bluetooth**.

- A gray icon indicates the feature is disabled or disconnected for that device.
- A colored icon indicates the feature is connected and active for that device.

📞	Hands-free calling
🎚	Tread features and services

Pairing with Your Smartphone

You can pair your Tread device with your smartphone and the Tread app to enable additional features and access live information (*Live Services, Traffic, and Smartphone Features*, page 26).

1 From the app store on your smartphone, install the Tread app.

2 Turn on your Tread device, and place the device and your smartphone within 3 m (10 ft.) of each other.

3 On your phone, open the Tread app.

4 Follow the on-screen instructions to sign in to a Garmin account and complete the pairing and setup process.

The main app dashboard appears. After the devices are paired, they connect automatically when they are turned on and within range.

Tips After Pairing the Devices

- After the initial pairing, the two devices can connect automatically each time you turn them on.
- When you turn on the device, it tries to connect to the last phone to which it was connected.
- You might need to set your phone to connect to the device automatically when the device is turned on.
- You should verify the Bluetooth features you want to use are enabled (*Enabling or Disabling Bluetooth Features*, page 28).

Pairing Additional Bluetooth Devices

1 Place your headset or phone and your Bluetooth device within 33 ft. (10 m) of each other.

2 On your device, enable Bluetooth wireless technology.

3 On your headset or phone, enable Bluetooth wireless technology and ensure it is visible to other Bluetooth devices.

4 On your device, select ✿ > **Wireless Networks** > **Bluetooth** > **Pair new device**.

A list of nearby Bluetooth devices appears.

5 Select your headset or phone from the list.

6 If necessary, select **Pair**.

Smart Notifications

While your device is connected to the Tread app, you can view notifications from your smartphone on your Tread device, such as text messages, incoming calls, and calendar appointments.

Receiving Notifications

⚠ WARNING

Do not read or interact with notifications while driving, because doing so can cause distraction that could lead to an accident resulting in serious personal injury or death.

Before you can use this feature, your device must be connected to a supported phone running the Tread app (*Pairing with Your Smartphone*, page 26).

From most pages, a popup appears when the device receives a notification from your smartphone. If the device is moving, you must verify you are a passenger and not the driver before you can view notifications.

NOTE: If you are viewing the map, notifications appear in a map tool.

- To ignore a notification, select ✖.

  The popup closes, but the notification remains active on your phone.

- To view a notification, select ⊞ > **Apps** > **Tools** > **Phone** > ⌄ > 💬.

  TIP: You can also select the phone widget on the main menu.

- To perform additional actions, such as dismissing the notification from your phone, select the notification, and select an option.

  NOTE: Additional actions are available for only some notification types and must be supported by the app generating the notification.

Viewing the List of Notifications

You can view a list of all active notifications.

Select ⊞ > **Apps** > **Tools** > **Phone** > ⌄ > 💬.

You can select the notification description to view each notification.

Hands-Free Calling

NOTE: While most phones and headsets are supported and can be used, a particular phone or headset cannot be guaranteed to be compatible. All features may not be available for your phone.

Using Bluetooth wireless technology, your device can connect to your compatible mobile phone and wireless headset or helmet to become a hands-free device. To check compatibility, go to www.garmin.com/bluetooth.

Placing a Call

1 From the main menu, select **Apps** > **Tools** > **Phone**.

2 Select an option:

- To dial a number, select ⠿, enter the phone number, and select 📞.
- To view numbers of recent, missed, or recently dialed or received calls, select ⊘, select a log, and select a number to dial it.
- To call a contact from your phone book, select 👤, and select a contact.

Using In-Call Options

In-call options are available when you answer a call. Some options may not be compatible with your phone.

TIP: If you close the in-call options page, you can open it again by selecting 📞 from any screen.

- To set up a conference call, select **Add Call**.
- To transfer audio to your phone, select **Send to Phone**.

  TIP: You can use this feature if you want to disconnect the Bluetooth connection and remain on the call, or if you need privacy.

- To use the dial pad, select **Keypad**.

  TIP: You can use this feature to use automated systems, such as voice mail.

- To mute the microphone, select **Mute**.
- To hang up, select ☎.

Saving a Phone Number as a Preset

You can save up to three contacts as presets on the dial pad. This allows you to quickly call your home phone number, family members, or frequently called contacts.

1 From the main menu, select **Apps** > **Tools** > **Phone**.

2 If necessary, select ⠿.

3 Select **Add Preset**, and select a contact.

Enabling or Disabling Bluetooth Features

You can enable or disable Bluetooth features such as phone calls, media audio, and live services for your paired smartphone.

1 Select ⊞ > ⚙ > **Wireless Networks** > **Bluetooth**.

2 Select your phone name.

3 Select a feature to enable or disable it.

Enabling or Disabling Bluetooth Features for Your Headset

By default, all compatible Bluetooth features are enabled when you pair your headset. You can enable or disable certain features.

1 Select ⊞ > ⚙ > **Wireless Networks** > **Bluetooth**.

2 Select the headset name, and select ⚙.

3 Select an option:

- To disconnect the headset, select **Disconnect**.
- To disable audio from phone calls, select **Phone calls**.
- To disable audio from streaming media, select **Media Audio**.

Disconnecting a Bluetooth Device

You can temporarily disconnect a Bluetooth device without deleting it from the paired devices list. The Bluetooth device can connect to your Tread device automatically in the future.

1 Select ⊞ > ⚙ > **Wireless Networks** > **Bluetooth**.

2 Select the device to disconnect.

3 Select **Disconnect**.

Deleting a Paired Phone

You can delete a paired phone to prevent it from automatically connecting to your device in the future.

1 Select ⊞ > ⚙ > **Wireless Networks** > **Bluetooth**.

2 Select the phone, and select **Forget**.

Navigation

Starting a Route

1 Select **Where To**, and search for a location.

2 Select a location.

3 Select an option:
  - To start navigating using the recommended route, select **Go!**.
  - To choose an alternate route, select 丫, and select a route.
    Alternate routes appear to the right of the map.

The device calculates a route to the location and guides you using voice prompts and information on the map (*Your Route on the Map*, page 30). A preview of the major roads in your route appears at the edge of the map for several seconds.

If you need to stop at additional destinations, you can add the locations to your route (*Adding a Location to Your Route*, page 31).

Starting a Route by Using the Map
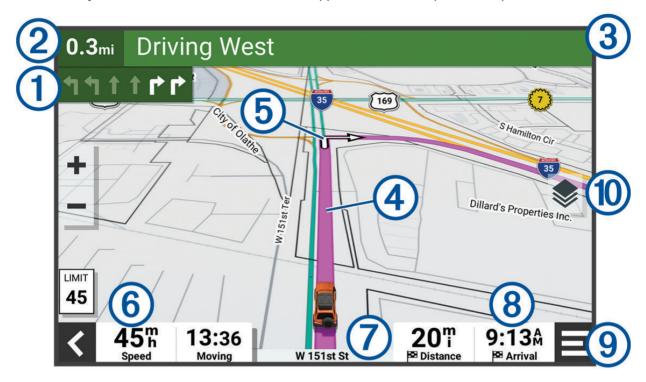
You can start a route by selecting a location from the map.

1 Select **Map**.

2 Drag and zoom the map to display the area to search.

3 Select an option:
  - Select a location marker.
  - Select a point, such as a street, intersection, or address location.

4 Select **Go!**.

Your Route on the Map

As you travel, the device guides you to your destination using voice prompts and information on the map. Instructions for your next turn or exit, or other actions appear across the top of the map.

①	Next action in the route. Indicates the next turn, exit, or other action and the lane in which you should travel, if available.
②	Distance to the next action.
③	Name of the street or exit associated with the next action.
④	Route highlighted on the map.
⑤	Next action in the route. Arrows on the map indicate the location of upcoming actions.
⑥	Vehicle speed.
⑦	Name of the road on which you are traveling.
⑧	Estimated arrival time. **TIP:** You can touch this field to change the information it shows.
⑨	Map tools. Provides tools to show you more information about your route and surroundings.
⑩	Map layers. Allows you to change the map orientation and add topographic and BirdsEye imagery to your map view.

Viewing Turns and Directions

While navigating a route, you can view upcoming turns, lane changes, or other directions for your route.

1 From the map, select an option:
- To view upcoming turns and directions as you navigate, select ☰ > **Turns**.

  The map tool displays the next several turns or directions beside the map. The list updates automatically as you navigate the route.
- To view the complete list of turns and directions for the entire route, select the text bar at the top of the map.

2 Select a turn or direction (optional).

Detailed information appears. An image of the junction may appear for junctions on major roadways, if available.

Viewing the Entire Route on the Map

1 While navigating a route, select anywhere on the map.

2 Select 🔀.

Changing Your Active Route

Adding a Location to Your Route

Before you can add a location to your route, you must be navigating a route (*Starting a Route*, page 29).

You can add locations to the middle or end of your route. For example, you can add a fuel station as the next destination in your route.

1 From the map, select ❮ > **Where To**.

2 Search for a location.

3 Select a location.

4 Select **Go!**.

5 Select an option:
- To add the location as the next destination in your route, select **Add as Next Stop**.
- To add the location to the end of your route, select **Add as Last Stop**.
- To add the location and edit the order of destinations in your route, select **Add to Active Route**.

The device re-calculates the route to include the added location and guides you to the destinations in order.

Shaping Your Route

Before you can shape your route, you must start a route (*Starting a Route*, page 29).

You can manually shape your route to change its course. This allows you to direct the route to use a certain road or go through a certain area without adding a destination to the route.

1 Touch anywhere on the map.

2 Select **Shape Route**.

TIP: You can select ➕ to zoom in on the map and select a more precise location.

The device enters route shaping mode and recalculates the route to travel through the selected location.

3 Select **Go!**.

4 If necessary, select an option:
- To add more shaping points to the route, select additional locations on the map.
- To remove a shaping point, select the shaping point and select **Remove**.

Avoiding Delays, Tolls, and Areas

Avoiding Road Features
1   Select ▦ > ⚙ > **Navigation** > **Avoidances**.
2   Select the road features to avoid on your routes, and select **Save**.

Custom Avoidances
Custom avoidances allow you to select specific areas or sections of road to avoid. When the device calculates a route, it avoids these areas and roads unless no other reasonable route is available.

Avoiding a Road
1   Select ▦ > ⚙ > **Navigation** > **Custom Avoidances**.
2   If necessary, select **Add Avoidance**.
3   Select **Add Avoid Road**.
4   Select the starting point of the section of road to avoid, and select **Next**.
5   Select the ending point of the road section, and select **Next**.
6   Select **Done**.

Avoiding an Area
1   Select ▦ > ⚙ > **Navigation** > **Custom Avoidances**.
2   If necessary, select **Add Avoidance**.
3   Select **Add Avoid Area**.
4   Select the upper-left corner of the area to avoid, and select **Next**.
5   Select the lower-right corner of the area to avoid, and select **Next**.
    The selected area is shaded on the map.
6   Select **Done**.

Disabling a Custom Avoidance
You can disable a custom avoidance without deleting it.
1   Select ▦ > ⚙ > **Navigation** > **Custom Avoidances**.
2   Select an avoidance.
3   Select ☰ > **Disable**.

Deleting Custom Avoidances
1   Select ▦ > ⚙ > **Navigation** > **Custom Avoidances** > 🗑.
2   Select an option:
    •   To delete all custom avoidances, select **Select All** > **Delete**.
    •   To delete one custom avoidance, select the avoidance, and select **Delete**.

Arriving at Your Destination
When you approach your destination, the device provides information to help you complete your route.
•   🏁 indicates the location of your destination on the map, and a voice prompt announces you are approaching your destination.
•   When you stop at your destination, the device automatically ends the route. If the device does not detect your arrival automatically, you can select ☰ > **Stop** to end your route.

Changing the Route Calculation Mode

1 Select > > **Navigation** > **Calculation Mode**.

2 Select an option:

- Select **Turn-by-Turn** to calculate routes on streets and trails.
- Select **Straight Line** to calculate point-to-point routes (without roads).

Taking a Route Using Garmin Adventurous Routing™

Your device can calculate adventurous routes that prefer curvy roads, hills, and fewer highways. This feature can provide a more enjoyable ride, but it may increase the time or distance to your destination.

1 Select > **Where To**, and search for a location.

2 Select a location.

3 Select .

4 Use the slider to increase or decrease the level of adventure of your route.

5 Select **Go!**.

Taking a Detour

You can take a detour for a specified distance along your route or detour around specific roads. This is useful if you encounter construction zones, closed roads, or poor road conditions.

1 From the map, select > **Edit Route**.

2 Select an option:

- To detour your route for a specific distance, select **Detour by Distance**.
- To detour around a specific road on the route, select **Detour by Road**.

Going Home

The first time you start a route home, the device prompts you to enter your home location.

1 Select > **Where To** > **Go Home**.

2 If necessary, enter your home location.

Editing Your Home Location

1 Select > **Where To** > > **Set Home Location**.

2 Enter your home location.

Finding and Saving Locations

The maps loaded in your device contain locations, such as restaurants, hotels, auto services, and detailed street information. The Where To menu helps you find your destination by providing several methods to browse, search, and save this information.

From the main menu, select **Where To**.

- To quickly search all locations on your device, select **Search** (*Finding a Location Using the Search Bar*, page 34).
- To find an address, select **Address**.
- To browse or search pre-loaded points of interest by category, select **Categories** (*Finding a Location by Category*, page 35).
- To search near a different city or area, select next to the current search area (*Changing the Search Area*, page 35).
- To view and edit your saved locations, select **Waypoints** (*Saving Locations*, page 40).
- To view locations you have recently selected from the search results, select **Recent** (*Viewing Recently Found Locations*, page 39).
- To browse and search Tripadvisor® traveler ratings, select **Tripadvisor** (*Finding Tripadvisor Points of Interest*, page 38).
- To find national parks and explore park maps, select **National Parks** (*Finding National Parks*, page 37).
- To navigate to specific geographic coordinates, select **Coordinates** (*Finding a Location Using Coordinates*, page 39).

Finding a Location Using the Search Bar
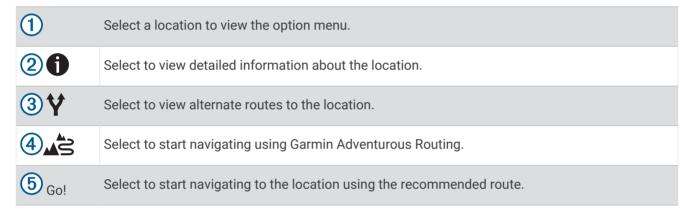
You can use the search bar to search for locations by entering a category, brand name, address, or city name.

1 Select > **Where To**.
2 Select **Search** in the search bar.
3 Enter all or part of the search term.

   Suggested search terms appear below the search bar.
4 Select an option:
   - To search for a type of business, enter a category name (for example, "movie theaters").
   - To search for a business name, enter all or part of the name.
   - To search for an address near you, enter the house number and street name.
   - To search for an address in another city, enter the house number, street name, city, and state.
   - To search for a city, enter the city and state.
   - To search for coordinates, enter latitude and longitude coordinates.
5 Select an option:
   - To search using a suggested search term, select the term.
   - To search using the text you entered, select .
6 If necessary, select a location.

Location Search Results

The location search results appear in a list, with the nearest location at the top. Each numbered location also appears on the map. You can scroll down to view more results.

①	Select a location to view the option menu.
② ⓘ	Select to view detailed information about the location.
③ ⅄	Select to view alternate routes to the location.
④ ⛰	Select to start navigating using Garmin Adventurous Routing.
⑤ Go!	Select to start navigating to the location using the recommended route.

Changing the Search Area

By default, the device searches near your current location. You can also search other areas, such as near your destination, near another city, or along your active route.

1 Select **Where To**.
2 Select 📍.
3 Select an option.

Finding a Location by Category

1 Select ⊞ > **Where To**.
2 Select a category, or select **Categories**.
3 If necessary, select a subcategory.
4 Select a location.

Navigating to Points of Interest Within a Venue

NOTE: This feature may not be available in all areas or for all product models.

You can create a route to a point of interest (POI) within a larger venue, such as a store in a shopping mall or a specific terminal in an airport.

1 Select ⊞ > **Where To** > **Search**.
2 Enter the name of the venue, and select 🔍.
3 Select the venue.
   A list of categories for POIs within the venue appears.
4 Select a category, select a location, and select **Go!**.

The device creates a route to the parking area or venue entrance closest to the POI. When you arrive at the destination, a checkered flag indicates the recommended parking area. A labeled point indicates the location of the POI within the venue.

Points of Interest

NOTICE

You are responsible for understanding and complying with any applicable rules, laws, or regulations associated with points of interest.

A point of interest is a place that you may find useful or interesting. Points of interest are organized by category and can include popular travel destinations such as gas stations, restaurants, hotels, and entertainment venues.

Viewing Your Garmin Explore Waypoints

1 Select **Apps** > **Adventure** > **Explore**.
2 Select a data type.
3 Select an item to view the details.

Synchronizing Garmin Explore Account Data

Before you can synchronize account data, you must connect to the Tread app and enable Garmin Explore.

You can synchronize data, such as tracks, with your Garmin Explore account. This can be helpful to keep your data available on each of your compatible devices. Your device periodically synchronizes data with your account automatically. You can also synchronize data manually at any time.

1 Select **Apps** > **Adventure** > **Explore**.
2 Select 🔄.

Finding National Parks

Device models that include maps for North America or the United States also include detailed information for national parks in the United States. You can navigate to a national park or to a location within a national park.

1 Select ▦ > **Where To** > **National Parks**.

A list of national parks appears, with the nearest park at the top.

2 Select **Search**, and enter all or part of the park name to narrow the results (optional).

3 Select a national park.

A list of categories for locations of features and amenities within the park appears below the park name.

4 Select an option:
   - To start navigating to the park, select **Go!**.
   - To view more park information or explore the park features and amenities, select ⓘ.
   - To quickly find a location within the park, select a category from the list below the park name, and select a location.

Finding Ultimate Campgrounds Points of Interest

NOTE: This feature is not available in all areas.

Your device includes Ultimate Campgrounds points of interest, which allow you to find public campgrounds near your location.

1 Select ▦ > **Where To** > **Ultimate Public Campgrounds**.

2 If necessary, select **Search Filters**, select one or more search filters, and select **Search**.

3 Select a location.

Finding iOverlander™ Points of Interest

Your device includes iOverlander points of interest, which allow you to find points of interest useful for overlanding, such as camp sites, repair services, and lodging.

1 Select ▦ > **Where To** > **iOverlander**.

2 Select a category.

3 Select a location.

Finding Adventure Points

> **NOTICE**
>
> You are responsible for understanding and complying with any applicable rules, laws, or regulations associated with campsites and points of interest.

Your device includes adventure points of interest, which allow you to find outdoor points of interest such as campsites, hiking trails, OHV trails, fishing locations, and water activities.

1 Select ⊞ > **Where To** > **USFS Points**.
2 If necessary, select **Search Filters**, select one or more search filters, and select **Save**.
3 Select a location.

Finding Snowmobile Points

> **NOTICE**
>
> You are responsible for understanding and complying with any applicable rules, laws, or regulations associated with points of interest.

Your device includes snowmobile points of interest, which allow you to find outdoor points of interest for snowmobiles.

1 Select ⊞ > **Where To** > **Snowmobile Points**.
2 Select a location.

Tripadvisor

> **NOTICE**
>
> Garmin is not responsible for the accuracy or timeliness of the Tripadvisor information.
>
> You are responsible for understanding and complying with any applicable rules, laws, or regulations associated with points of interest.

Your device includes Tripadvisor traveler ratings. Tripadvisor ratings appear automatically in the search results list for restaurants, hotels, and attractions. You can also search for nearby Tripadvisor points of interest and sort by distance or popularity.

Finding Tripadvisor Points of Interest

1 Select ⊞ > **Where To** > **Tripadvisor**.
2 Select a category.
3 If necessary, select a subcategory.

   A list of nearby Tripadvisor points of interest for the category appears.
4 Select **Sort Results** to filter the displayed points of interest by distance or popularity (optional).
5 Select 🔍, and enter a search term (optional).

Finding Parking Near Your Current Location

1 Select ⊞ > **Where To** > **Categories** > **Parking**.
2 Select a parking location.
3 Select **Go!**.

Finding Parking Near a Specified Location

1 Select **Where To**.
2 Search for a location.
3 From the location search results, select a location.
4 Select ⓘ > **Parking**.
   A list of parking areas near the selected location appears.
5 Select a parking location.
6 Select **Go!**.

Search Tools

Search tools allow you to search for specific types of locations by responding to on-screen prompts.

Finding an Address

NOTE: The order of the steps may change depending on the map data loaded on your device.
1 Select ⊞ > **Where To**.
2 If necessary, select ♥ to search near a different city or area.
3 Select **Address**.
4 Follow the on-screen instructions to enter address information.
5 Select the address.

Finding a Location Using Coordinates

You can find a location using latitude and longitude coordinates.
1 Select ⊞ > **Where To** > **Coordinates**.
2 If necessary, select 🔧, and change the coordinate format or datum.
3 Select **Coordinates**.
4 Enter the latitude and longitude coordinates, and select **Done**.
5 Select an option:
   • To save the coordinates as a location, select **Save**.
   • To start a route to the coordinates, select **Go!**.

Finding Fuel Stations and Prices

Before you can use this feature, your device must be connected to a supported phone running the Tread app (*Pairing with Your Smartphone*, page 26).
You can find nearby fuel stations and compare fuel prices.
1 Select **Where To** > **Fuel Prices**.
2 If necessary, select ☰ > **Fuel Type**, select a fuel type, and select **Save**.
3 Select a fuel station.

Viewing Recently Found Locations

Your device stores a history of the last 50 locations you have found.
   Select ⊞ > **Where To** > **Recent**.

Clearing the List of Recently Found Locations

   Select ⊞ > **Where To** > **Recent** > ☰ > **Clear** > **Yes**.

Viewing Current Location Information

You can use the Where Am I? page to view information about your current location. This feature is helpful if you need to tell emergency personnel your location.

From the map, select the vehicle.

Finding Emergency Services and Fuel

You can use the Where Am I? page to find the nearest hospitals, police stations, and fuel stations.

1 From the map, select the vehicle.

2 Select **Hospitals**, **Police Stations**, or **Fuel**.

NOTE: Some service categories are not available in all areas.

A list of locations for the selected service appears, with the nearest locations at the top.

3 Select a location.

4 Select an option:
   • To navigate to the location, select **Go!**.
   • To view the phone number and other location details, select ⓘ.

Getting Directions to Your Current Location

If you need to tell another person how to get to your current location, your device can give you a list of directions.

1 From the map, select the vehicle.

2 Select ☰ > **Directions to Me**.

3 Select a starting location.

4 Select **Select**.

Adding a Shortcut

You can add shortcuts to the Where To? menu. A shortcut can point to a location, a category, or a search tool.

The Where To? menu can contain up to 36 shortcut icons.

1 Select ⊞ > **Where To** > **Add Shortcut**.

2 Select an item.

Removing a Shortcut

1 Select ⊞ > **Where To** > ☰ > **Remove Shortcut(s)**.

2 Select a shortcut to remove.

3 Select the shortcut again to confirm.

4 Select **Done**.

Saving Locations

Saving a Location

1 Search for a location (*Finding a Location by Category*, page 35).

2 From the search results, select a location.

3 Select ⓘ > **Save**.

4 If necessary, enter a name, and select **Done**.

5 Select **Save**.

Saving a Waypoint on the Map

1   Select **Map**.
2   Drag and zoom the map to display the area to search.
3   Select an option:
    •   Select a location marker.
    •   Select a point, such as a street, intersection, or address location.
4   Select ⌐.
5   Enter a name, and select **Save**.

Saving Your Current Location

1   From the map, select the vehicle icon.
2   Select **Save**.
3   Enter a name, and select **Done**.

Editing a Saved Location

1   Select ⊞ > **Where To** > **Waypoints**.
2   If necessary, select a category.
3   Select a location.
4   Select ❶.
5   Select ≡ > **Edit**.
6   Select an option:
    •   Select **Name**.
    •   Select **Phone Number**.
    •   Select **Categories** to assign categories to the saved location.
    •   Select **Map Symbol** to change the symbol used to mark the saved location on a map.
7   Edit the information.
8   Select **Done**.

Assigning Categories to a Saved Location

You can add custom categories to organize your saved locations.
NOTE: Categories appear in the saved locations menu after you have saved at least 12 locations.
1   Select ⊞ > **Where To** > **Waypoints**.
2   Select a location.
3   Select ❶.
4   Select ≡ > **Edit** > **Categories**.
5   Enter one or more category names, separated by commas.
6   If necessary, select a suggested category.
7   Select **Done**.

Deleting a Saved Location

NOTE: Deleted locations cannot be recovered.
1   Select ⊞ > **Where To** > **Waypoints**.
2   Select a waypoint.
3   Select **Edit** > **Delete** > **Yes**.

Driver Awareness Features and Alerts

> **⚠ CAUTION**
>
> The driver alerts and speed limit features are for information only and do not replace your responsibility to abide by all posted speed limit signs and to use safe driving judgment at all times. Garmin is not responsible for any traffic fines or citations you receive for failing to follow all applicable traffic laws and signs.

Your device provides features that can help encourage safer driving and increase efficiency, even when you are driving in a familiar area. The device plays an audible tone or message and displays information for each alert. You can enable or disable the audible tone for some types of driver alerts. Not all alerts are available in all areas.

Schools: The device plays a tone and displays the speed limit (if available) for an upcoming school or school zone.

Speed limit exceeded: The device plays a tone and displays a red border on the speed limit icon when you exceed the posted speed limit for the current road.

Speed limit reduced: The device plays a tone and displays the upcoming speed limit so you can be prepared to adjust your speed.

Railroad crossing: The device plays a tone to indicate an upcoming railroad crossing.

Animal crossing: The device plays a tone to indicate an upcoming animal crossing area.

Bends: The device plays a tone to indicate a bend in the road.

Slower traffic: The device plays a tone to indicate slower traffic when you approach slower traffic at a higher speed. Your device must be receiving traffic information to use this feature .

Construction zone: The device plays a tone and displays a message when you approach a construction zone.

Lane closure: The device plays a tone and displays a message when you approach a lane closure.

Enabling or Disabling Driver Alerts

You can enable or disable several types of driver alerts.

1   Select **✿** > **Driver Assistance** > **Driver Alerts**.
2   Select or clear the check box next to each alert.

Settings

Navigation Settings

Select **⊞** > **✿** > **Navigation**.

Calculation Mode: Sets the route calculation method.

Off-Route Recalculation: Sets recalculation preferences when navigating away from an active route.

Avoidances: Sets road features to avoid on a route.

Custom Avoidances: Allows you to avoid specific roads or areas.

Environmental Zones: Sets the avoidance preferences for areas with environmental or emissions restrictions that may apply to your vehicle.

Restricted Mode: Disables all functions that require significant operator attention.

Voice Language: Sets the language for navigation voice prompts.

Travel History: Allows the device to store a record of the places you go. This allows you to view the trip log, use the Trip History feature, and use myTrends™ suggested routes.

Clear Travel History: Allows you to clear all travel history from the device.

Map Display Settings

Select ▦ > ✿ > **Map Display**.

Map Vehicle Icon: Sets the vehicle icon that represents your position on the map.

Driving Map View: Sets the perspective on the map.

Map Detail: Sets the level of detail on the map. More detail may cause the map to draw slower.

Map Theme: Changes the color of the map data.

Map Layers: Sets the data that appears on the map page (*Customizing the Map Layers*, page 13).

Adventure Roads & Trails: Sets the trails visible on the map. Trails are organized by vehicle accessibility.

Waypoint Decluttering: Hides waypoints at high map zoom levels.

Units: Sets the units of measure.

myMaps: Sets which installed maps the device uses.

Enabling Maps

You can enable map products installed on your device.

TIP: To purchase additional map products, go to garmin.com/maps.

1   Select ▦ > ✿ > **Map Display** > **myMaps**.

2   Select a map.

Vehicle Setup Settings

The vehicle setup settings contain options for customizing vehicle operation and viewing vehicle information. Vehicle setup settings are not available for all vehicles.

Select ▦ > ✿ > **Vehicle Setup**.

Suspension: Sets the user's suspension preferences.

Speed Limiter: Sets the vehicle's top speed limit.

Reset Vehicle Configuration: Resets the electric power steering, handlebar, and suspension controls.

Vehicle Diagnostics: Displays vehicle data such as the oil pressure and fuel level.

Reset Data Fields: Resets trip data fields.

Vehicle Warranty Information: Displays the vehicle's warranty.

Connecting to a Wireless Network

1   Select ▦ > ✿ > **Wireless Networks** > **Wi-Fi**.

2   If necessary, select the toggle switch to turn on wireless network technology.

3   Select a wireless network.

4   If necessary, enter the encryption key.

The device connects to the wireless network. The device remembers the network information and connects automatically when you return to this location in the future.

Enabling Bluetooth Wireless Technology

Select ▦ > ✿ > **Wireless Networks** > **Bluetooth**.

Driver Assistance Settings

Select ✿ > **Driver Assistance**.

Driver Alerts: Enables an audible alert for each type of driver alert (*Driver Awareness Features and Alerts*, page 42).

Proximity Alerts: Alerts you when you approach speed cameras or red light cameras.

Route Preview: Shows a preview of the major roads in your route when you start navigation.

Traffic Settings

From the main menu, select ✦ > **Traffic**.

Traffic: Enables the traffic feature.

Current Provider: Sets the traffic provider to use for traffic data. The Auto option selects the best available traffic data automatically.

Subscriptions: Lists the current traffic subscriptions.

Optimize Route: Enables the device to use optimized alternate routes automatically or upon request.

Display Settings

Select ⊞ > ✦ > **Device** > **Display**.

Brightness level: Sets the display brightness level on your device.

Dark theme: Enables or disables the dark color theme.

Wallpaper: Sets the wallpaper background on your device.

Screen timeout: Allows you to set the amount of idle time before your device turns off the display while using battery power.

Font size: Increases or decreases the font size on your device.

Adjusting Sound and Notification Volume

1 Select ⊞ > ✦ > **Device** > **Sound & Notification**.
2 Use the sliders to adjust the sound and notification volume.

Setting the Text Language

You can select the language for text in the device software.

1 Select ⊞ > ✦ > **Personal** > **Language & Input** > **Languages**.
2 Select a language.

Date and Time Settings

Select ⊞ > ✦ > **System** > **Date & Time**.

Use network-provided time: Automatically sets the time zone based on information from the connected network.

Use network-provided time zone: Sets the time zone on your device when the Use network-provided time setting is disabled.

Use 24-hour format: Enables or disables the 24-hour time format.

Enabling or Disabling Location Services

The location services feature must be enabled for your device to find your location, calculate routes, and provide navigational assistance. You can disable location services to plan a route when GPS signals are not available. When location services are disabled, the device enables a GPS simulator to calculate and simulate routes.

TIP: Disabling location services can help save battery power.

1 Select ⊞ > ✦ > **Personal** > **Location**.
2 Select the toggle switch to enable or disable location services.

Device Information

Select ⊞ > ✦ > **About Device**.

Legal Information: Allows you to view the end-user license agreement (EULA) and software license information.

Regulatory Information: Displays e-label regulatory and compliance information.

Garmin Device Information: Displays hardware and software version information.

Viewing E-label Regulatory and Compliance Information

1 From the settings menu, swipe to the bottom of the menu.

2 Select **About Device** > **Regulatory Information**.

Tread Specifications

Water resistance	IEC 60529 IP67[1]
Operating temperature range	From -20° to 55°C (from -4° to 131°F)
Charging temperature range	From 0° to 45°C (from 32° to 113°F)
Power input (vehicle power cable, motorcycle, or external power)	From 12 to 24 Vdc
Battery type	Lithium-ion battery
Battery voltage range	From 3.5 to 4.1 V

Device Maintenance

Garmin Support Center

Go to support.garmin.com for help and information, such as product manuals, frequently asked questions, videos, and customer support.

Map and Software Updates

For the best navigation experience, you should keep the maps and software on your device up to date.

Map updates provide the newest available changes to roads and locations in the maps used by your device. Keeping maps up to date helps your device find recently added locations and calculate more accurate routes. Map updates are large and may take several hours to complete.

Software updates provide changes and improvements to the device features and operation.

You can update your device using two methods.

- You can connect the device to a Wi-Fi network to update directly on the device (recommended). This option allows you to update your device conveniently without connecting it to a computer.
- You can connect the device to a computer and update it using the Garmin Express™ application (garmin.com /express).

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[1] The device is protected against the ingress of dust and withstands incidental exposure to water of up to 1 m for up to 30 min.

Updating Maps and Software Using a Wi‑Fi Network

NOTICE

Map and software updates may require the device to download large files. Regular data limits or charges from your internet service provider apply. Contact your internet service provider for more information about data limits or charges.

You can update the maps and software by connecting your device to a Wi‑Fi network that provides access to the internet. This allows you to keep your device up to date without connecting it to a computer. Verify your vehicle is parked in a safe location and consistent power is supplied to the device during the update process.

1 Connect the device to a Wi‑Fi network (*Connecting to a Wireless Network*, page 43).

  While connected to a Wi‑Fi network, the device checks for available updates automatically and displays a notification when an update is available.

2 Select an option:

  • When an update notification appears, swipe down from the top of the screen, and select **An update is available.**.

  • To manually check for updates, select ⊞ > ⚙ > **Updates**.

  The device displays available map and software updates. When an update is available, **Update Available** appears below Map or Software.

3 Select an option:

  • To install all available updates, select **Download**.

  • To install only map updates, select **Map**.

  • To install only software updates, select **Software**.

4 Read the license agreements, and select **Accept All** to accept the agreements.

  NOTE: If you do not agree with the license terms, you can select Reject. This stops the update process. You cannot install updates until you accept the license agreements.

5 Verify your vehicle is parked in a safe location and consistent power is supplied to the device, and select **Continue**.

6 Keep the device connected to power and within range of the Wi‑Fi network until the update process is complete.

TIP: If a map update is interrupted or canceled before it completes, your device may be missing map data. To repair missing map data, you must update the maps again.

Connecting the Device to Your Computer

You can connect the device to your computer using a USB cable.

NOTE: USB‑C® to USB‑C cables are not supported. You must use a USB‑C to USB‑A cable with a maximum length of 1 m (3 ft.) to connect the device to a computer.

1 Plug the USB cable into the available USB port located on the wiring harness under the vehicle cowling.

2 Plug the other end of the USB cable into a port on your computer.

Depending on your computer operating system, the device appears as either a portable device, a removable drive, or a removable volume.

Device Care

NOTICE

Do not store the device where prolonged exposure to extreme temperatures can occur, because it can cause permanent damage.

Never use a hard or sharp object to operate the touchscreen, or damage may result.

Cleaning the Touchscreen

1 Use a soft, clean, lint-free cloth.

2 If necessary, lightly dampen the cloth with water.

3 If using a dampened cloth, turn off the device and disconnect the device from power.

4 Gently wipe the screen with the cloth.

Restarting the Device

You can restart your device if it stops functioning.

Select ⚙ > **Personal** > **Device Reset** > **Restart Device**.

Troubleshooting

My device is not acquiring satellite signals

• Take your device out of parking garages and away from tall buildings and trees.

• Remain stationary for several minutes.

My device does not connect to my phone

• Select ⊞ > ⚙ > **Wireless Networks** > **Bluetooth**, and verify that your phone is paired with the navigator.

• Enable Bluetooth wireless technology on your phone, and bring your phone within 10 m (33 ft.) of the device.

• Verify your phone is compatible.

Go to www.garmin.com/bluetooth for more information.

• Complete the pairing process again.

To repeat the pairing process, you must unpair your phone and device (*Disconnecting a Bluetooth Device*, page 29), and complete the pairing process (*Pairing with Your Smartphone*, page 26).

Appendix

Garmin PowerSwitch

⚠ WARNING

Garmin strongly recommends having an experienced installer with the proper knowledge of electrical systems install the device. Incorrectly wiring the power cable can result in damage to the vehicle or the battery and can cause bodily injury.

You can use a connected Garmin PowerSwitch device to control lights, fans, and more from your Tread device.

Mounting Considerations

• The device must be mounted close to the battery and within the range of the supplied power cable.

• The mounting surface must be strong enough to support the weight of the device.

• The location must allow room for the routing and connection of all cables.

Mounting the Device

Before you can mount the device, you must select a mounting location and purchase the appropriate hardware for your mounting surface.

NOTICE

Avoid wires, gauges, air bags, air bag covers, HVAC, and other items when drilling pilot holes and attaching the mount to the vehicle. Garmin is not responsible for any damages or consequences arising from the installation.

1 Place the mount on the selected location.

2 Using the mount as a template, mark the two screw locations ①.
3 Drill pilot holes (optional).
   For some types of mounting material, drilling pilot holes is necessary. Do not drill through the mount.
4 Securely fasten the mount to the surface using the appropriate hardware for your mounting surface.

Opening the Front Cover

You must open the front cover to make electrical connections.

1 Lift the front cover latch ① and rotate it counter-clockwise.

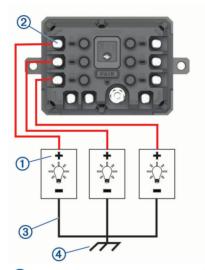2 Pull the front cover off of the device.

Connecting Accessories

Accessory requirements:

- Verify the amperage rating of each accessory before wiring it to the Garmin PowerSwitch device. The device supports accessories up to 30 A for each channel and a maximum of 100 A for the entire system.
- Use 10 AWG (6 mm^2) wires for accessories that use 20 to 30 A.
- Use 12 AWG (4 mm^2) wires for accessories that use 10 to 20 A.
- Use 14 AWG (2.5 mm^2) wires for accessories that use less than 10 A.
- Use the appropriate size terminals for all accessory connections.
- Crimp all terminal connectors securely.

1 Connect the positive wire from the accessory ① to one of the accessory terminals ② on the Garmin PowerSwitch device.

2 Connect the negative or ground wire ③ to an unpainted ground stud ④ on the vehicle frame, to a ground distribution block, or directly to the negative terminal on the battery.

3 Verify that all electrical connections are tight and will not come loose during use.

Connecting a Control Input

You can connect to the control terminals to enable the Garmin PowerSwitch device to turn on customizable outputs. For example, you can connect your vehicle ignition switch to a control input terminal to turn on accessories automatically each time you start your vehicle. The control terminals detect a signal from 3.3 V to 18 V. You can configure output functions with the Garmin PowerSwitch app.
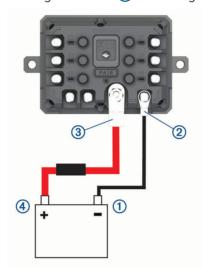
Connect the control wire from the control source in your vehicle to one of the two control terminals on the Garmin PowerSwitch device.

Connecting the Device to Vehicle Power

Before you can connect the device to vehicle power, you must remove the warning tag from the +12V terminal on the device.

You should always confirm all electrical connections are secure and will not come loose while operating the device.

1 Connect the large ring end of the included ground wire ① to the negative terminal on the vehicle battery.

2 Connect the small ring end of the ground wire to the **GND** terminal ② on the device.
3 Connect the small ring end of the included 12V cable to the **+12V** terminal ③ on the device.
4 Tighten the $^3/_8$ in. nut on the +12V terminal to a maximum torque specification of 4.52 N-m (40 lbf-in.).
   You should confirm the nut cannot be loosened by hand.

> *NOTICE*
> Do not overtighten the +12V terminal to prevent damage to the terminal.

5 Connect the large ring end of the 12V cable ④ to the positive terminal on the vehicle battery.

Pairing with a Garmin Navigation Device

You can pair your Garmin PowerSwitch device with a compatible Garmin navigation device.

1 Turn on power to your Garmin PowerSwitch device, and place your compatible Garmin navigation device within 1 m (3.3 ft.) of it.
2 On your compatible navigation device, open the Garmin PowerSwitch app.
3 Follow the on-screen instructions to complete the pairing and setup process.

The main app dashboard appears. After the devices are paired, they connect automatically when they are turned on and within range.

Garmin PowerSwitch Specifications

Dimensions (D x W x H)	75 x 125 x 32 mm (2.95 x 4.92 x 1.26 in.)
Operating temperature range	From -25° to 85°C (from -13° to 185°F)
Wireless frequency	2.4 GHz @ 10 dBm
Power input	From 12 to 16 V using the included vehicle power cable.
Maximum accessory output	30 A
Maximum system output	100 A
Current draw with all outputs off	3 mA
Water rating	IEC 60529 IPX7[2]

Garmin PowerSwitch Troubleshooting

My Garmin PowerSwitch will not stay connected

- Verify the Garmin PowerSwitch device is receiving power.
- Verify that Bluetooth technology is enabled on your paired navigation device or smartphone.
- Move the navigation device or smartphone closer to your Garmin PowerSwitch device.
- Verify that your vehicle's battery is supplying at least 12 V of power.

  The Garmin PowerSwitch device turns off all outputs automatically to preserve your vehicle's battery if it is receiving less than 11 V of power (*My accessories are not receiving power*, page 52).

My accessories are not receiving power

- Verify the Garmin PowerSwitch device is receiving power from the vehicle battery.
- Verify that your vehicle's battery is supplying at least 12 V of power.

  The Garmin PowerSwitch device turns off all outputs automatically to preserve your vehicle's battery if it is receiving less than 11 V of power. Outputs turn back on when the device detects more than 12 V of power.

- Verify that all electrical connections are secure and will not come loose while operating the vehicle.
- Verify that each connected accessory draws less than 30 A.

  If an accessory draws more than 30 A, the device turns off that output automatically.

- Verify that the total system load is less than 100 A.

  If the device detects a system load of more than 100 A, it turns off all outputs automatically.

- Inspect all electrical connections for an electrical short circuit.

Tread Audio

⚠ **WARNING**

Garmin strongly recommends having an experienced installer with the proper knowledge of electrical systems install the device. Incorrectly wiring the power cable can result in damage to the vehicle or the battery and can cause bodily injury.

You can use a connected Tread Audio system to control audio and LED lights from your Tread device.

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[2] The device withstands incidental exposure to water of up to 1 m for up to 30 min. For more information, go to www.garmin.com/waterrating.

Tools and Materials Needed

- Phillips screwdriver
- Electric drill
- Drill bit (the size varies based on the surface material and screws used)
- Crimping pliers
- Wire strippers
- Heat gun
- 4 mm and 5 mm hex drivers or hex keys

NOTE: For customized installations, additional tools and materials may be needed.

Tread Audio Box Mounting Considerations

<table>
<tr><td>⚠ CAUTION</td></tr>
</table>

In high ambient temperatures and after extended use, the device enclosure may reach temperatures deemed dangerous to touch. Therefore, you must install the device in a location where it is not touched during operation.

<table>
<tr><td><i>NOTICE</i></td></tr>
</table>

The storage and operating temperature ranges for this device are listed in the product specifications. Extended exposure to temperatures exceeding the specified temperature range, in storage or operating conditions, may cause device failure. Device damage and related consequences caused by extended exposure to these conditions are not covered by the warranty.

- You must mount the device in a location with adequate ventilation where it is not exposed to extreme temperatures.
- You should mount the device so that the cables can be connected easily.
- To achieve IP67 water ingress protection and optimal heat sink cooling, you must mount the device on a vertical surface with the connectors pointing downward.
- You can mount the device on a horizontal surface, but such positioning might not achieve IP67 water ingress protection.
- To avoid interference with a magnetic compass, you should install the device at least 203 mm (8 in.) away from a compass.

Mounting the Tread Audio Box Black Box Device

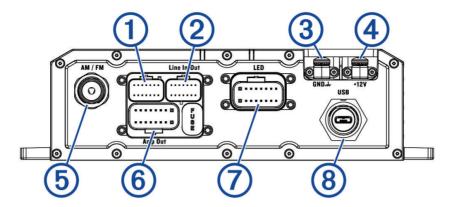Before you mount the device, you must select a mounting location, and determine what screws and other mounting hardware are needed for the surface.

1. Place the black box device in the mounting location, and mark the location of the pilot holes.
2. Drill a pilot hole for one corner of the device.
3. Loosely fasten the device to the mounting surface with one corner, and examine the other three pilot-hole marks.
4. Mark new pilot-hole locations if necessary, and remove the device from the mounting surface.
5. Drill the remaining pilot holes.
6. Secure the device to the mounting location.
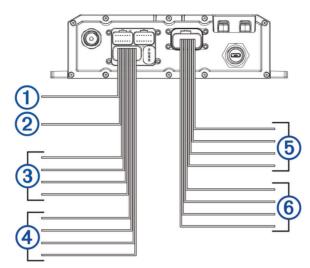
Connections

The stereo must be connected to power, to speakers, and to media input sources to function correctly. You should carefully plan the layout of the stereo, speakers, and your input sources before making any connections.

Port Identification

Item	Description
FUSE	Contains the 15 A fuse for the LED outputs.
①	Not used.
②	Connects the device to the auxiliary in and line/subwoofer out wiring harness.
③	Connects the device to the ground terminal wire (GND).
④	Connects the device to the +12V terminal wire.
⑤	Connects the device to the AM/FM antenna.
⑥	Connects the device to the speaker wiring harness.
⑦	Connects the device to the LED wiring harness.
⑧	Connects the device to an optional USB accessory.

Speaker and LED Wiring Harness Wire and Connector Identification

| Wire Group	Wire Color and Description
① Ignition	Red: Connects to the vehicle accessory line. If the ignition wire is unused, ground the ignition wire or leave it disconnected.
② Amplifier on	Blue: Connects to an optional external amplifier to turn it on when the stereo turns on.
③ Speaker zone 1	White: Left (+), Connects to the included speaker. White with a black stripe: Left (-), Connects to the included speaker. Gray: Right (+), Connects to the included speaker. Gray with a black stripe: Right (-), Connects to the included speaker.
④ Speaker zone 2	Green: Left (+), Connects to an additional speaker. Green with a black stripe: Left (-), Connects to an additional speaker. Purple: Right (+), Connects to an additional speaker. Purple with a black stripe: Right (-), Connects to an additional speaker.
⑤ LED RGB1	Black: Power Red: Red LED Green: Green LED Blue: Blue LED
⑥ LED RGB2	Black: Power Red: Red LED Green: Green LED Blue: Blue LED

Addressable LED Wiring Considerations
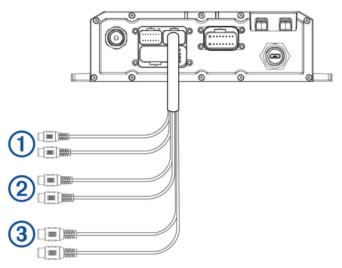
You can wire addressable LED lights to your Tread Audio Box. For more information, see the manual for your addressable LED lights.

Compatible addressable LED types:
- WS2812B
- WS2813

Addressable LED	LED Wire Color and Function
Addressable LED 1	Red: +5V Power White: Ground Green with a black stripe: Data
Addressable LED 2	Red: +5V Power White: Ground Green with a black stripe: Data

RCA Wiring Harness Wire and Connector Identification

| Wire Number	Wire Function
①	Auxiliary in left: Provides a red and white RCA stereo line input for audio sources, such as a CD or MP3 player. Auxiliary in right: Provides a red and white RCA stereo line input for audio sources, such as a CD or MP3 player.
②	Line out left: Provides a full-range output to an external amplifier, and is associated with the volume control. Line out right: Provides a full-range output to an external amplifier, and is associated with the volume control. **NOTE:** If you are connecting to an external amplifier, you should use a ground loop isolator to ensure a clear signal.
③	Subwoofer out: Provides a single mono output to a powered subwoofer or subwoofer amplifier. **NOTE:** If you are connecting to an external amplifier, you should use a ground loop isolator to ensure a clear signal.
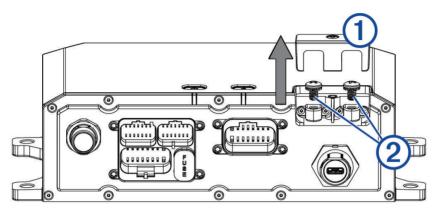
Connecting the Device to Vehicle Power

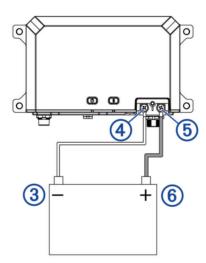You should always confirm all electrical connections are secure and will not come loose while operating the device.

1 Remove the terminal cover ① using a Phillips screwdriver.

2 Remove the screws from the **GND** terminal and the **+12V** terminal ②.

3 Connect the large ring end of the included ground wire ③ to the negative terminal on the vehicle battery.

4 Connect the small ring end of the ground wire to the **GND** terminal ④ on the device.

5 Tighten the screw on the GND terminal.

You should confirm the screws cannot be loosened by hand.

6 Connect the small ring end of the included 12V cable to the **+12V** terminal ⑤ on the device.

7 Tighten the screw on the +12V terminal.

You should confirm the screws cannot be loosened by hand.

8 Connect the large ring end of the 12V cable ⑥ to the positive terminal on the vehicle battery.

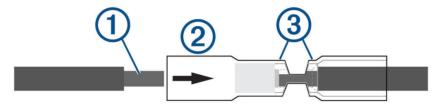**9** Replace and tighten the terminal cover on the device.

Using the Heat-Shrink Crimp Connectors

You should use the included heat-shrink crimp connectors to make a water-tight connection between the bare wires.

> ⚠ **WARNING**
>
> Only use the heat gun to apply heat to the heat-shrink crimp connectors in a well-ventilated area. Do not use the heat gun near clothing or bare skin. Doing so can result in property damage or serious injury.

1 Using wire strippers, strip 6 mm ($^1/_4$ in.) off the end of each bare wire.
2 If necessary, twist the strands of each wire ① clockwise to bundle them together.
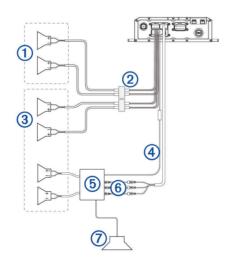
3 Insert one bare wire into one end of the heat-shrink crimp connector ②.
   The bare wires are not secure until they are crimped and sealed.
4 Insert the corresponding bare wire into the other end of the heat-shrink crimp connector.
5 Using pliers, crimp both sides of the center of the connector ③ to secure the connection.
6 Using a heat gun, apply heat to the heat-shrink crimp connector until the connector is sealed to the wires.
   Do not apply heat to the wires directly.

Complete System Wiring

This diagram illustrates a system installation with an external amplifier and subwoofer connected to the stereo using a line out.

NOTE: You can also connect speakers to the speaker wires for the internal stereo amplifier while using an external amplifier connected to the line out. Adjusting the volume affects speakers connected to the internal amplifier and speakers connected to the line out. This may result in uneven volume levels.

Item	Description
①	Zone 2 speakers
②	Water-tight connection
③	Zone 1 speakers
④	Amplifier-on signal wire
⑤	Powered amplifier
⑥	Line out and subwoofer out
⑦	Subwoofer
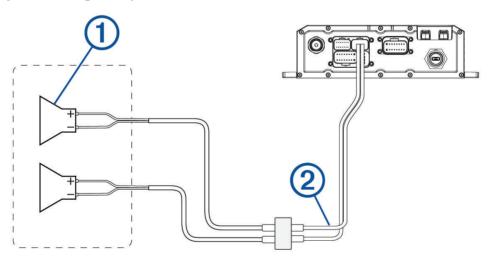
Speaker Zones

You can group speakers in one area into speaker zones. This enables you to control the audio level of the each zone individually.

Zones 1 and 2 are powered by the on-board amplifier. To use the RCA line output, you must connect an external amplifier.

You can set the balance, tone, and name for each zone, and the fade between zones.

Single-Zone System Wiring Example

Item	Description
①	Speakers
②	Water-tight connection

Wireless Remote Mounting Considerations

NOTICE

Selecting the correct mounting location is critical to optimize the performance of the wireless remote.

- You must mount the wireless remote in a location that is within 10 m (33 ft.) of the stereo.
- You must mount the wireless remote in a location where it is not submerged.
- You should select a flat mounting surface for the best results.
- The mounting surface must be free of dirt, debris, wax, or coatings.
- Move away from sources that can interfere with the wireless remote's operation. Sources of interference may include strong electromagnetic fields, some 2.4 GHz wireless sensors, high-voltage power lines, electric motors, and wireless LAN access points.
- You should install the wireless remote in a location where you can allow the adhesive to dry at room temperature for 72 hours.

Mounting the Wireless Remote

1 Select an appropriate location for the remote control (*Wireless Remote Mounting Considerations*, page 60).
2 Test the range at the selected location by holding the wireless remote at the location, pressing a few buttons, and confirming the correct operation.
3 Thoroughly clean and dry the mounting surface using a mixture of water and isopropyl alcohol.

   The mounting surface must be free of dirt, debris, wax, or coatings.
4 Place the wireless remote on the mount, and rotate the remote until you hear a click.
5 Remove the backing from the adhesive.
6 Carefully orient the wireless remote in the mount with the Fusion® logo at the bottom.

NOTICE

It is extremely difficult to remove the adhesive. Some mounting surfaces might be damaged after removing the adhesive.

7 Press the wireless remote in the mount firmly onto the mounting surface, maintaining pressure for at least 60 seconds.

Mounting the Speakers and Brackets

You can mount the Tread 6.5" XS-LED Tower Speakers to a roll bar using the included brackets.

When installing the speaker and bracket, you can route the speaker and LED cable along the roll bar.

1 If necessary, mark the locations on the roll bar where you plan to mount the speakers.
2 Route the speaker and LED power wires along the roll bar to the mounting locations.
3 Feed the cable ① from the speaker through the base of the bracket ②.

4 Place the base of the bracket over the mounting knob on the speaker ③.
5 Using a 4 mm hex driver or hex key, attach the collar ④ to the base of the bracket using the two shorter screws and washers ⑤, but do not fully tighten them.
6 Connect the speaker and LED wires (*Wiring*, page 62).
7 Place the connected wires in the channel on the base of the bracket ⑥, and route the wires along the roll bar.

8 Place the top of the bracket ⑦ over the roll bar, and hold it against the base of the bracket.
9 Using a 5 mm hex driver or hex key, attach the top of the bracket to the base of the bracket using the two longer screws and washers ⑧, but do not fully tighten them.

10 Adjust the angle of the speakers, and tighten all of the screws to secure the speaker to the roll bar, observing these maximum torque measurements:
  - For the longer screws that secure the bracket to the roll bar ⑧, do not tighten to more than 4 N-m (2.95 lbf-ft.).
  - For the shorter screws that secure the bracket to the speaker ⑤, do not tighten to more than 2.5 N-m (1.84 lbf-ft.).

11 Repeat these steps for additional brackets.

12 Route the speaker and LED wires along a suitable path in your vehicle, and secure them using the included zip ties.

Wiring

When connecting the speakers and LED lights to your stereo or amplifier, observe these considerations.

- You should use the included wire to connect the speakers to the stereo or amplifier. If necessary, you can use a larger gauge of wire (*Wire Gauge Guide*, page 62).
- You should make all of the wiring connections using the included heat-shrink crimp connectors. You should plan and select the best connection type for your installation needs.
- You can use this table to identify the polarity of the leads on the speaker.

Lead color	Polarity	Use
White	Positive (+)	Speaker
White with a black stripe	Negative (-)	Speaker
Red		Red LED
Green		Green LED
Blue		Blue LED
Black		+12V Power

Wire Gauge Guide

If necessary, you can use longer cables for your installation.

NOTE: If you are using aluminum or tinned wire, you should use a wire two gauges larger than the gauge listed below to compensate for a potential voltage drop due to the wire material.

- Use 16 AWG (1.31 mm^2) for speaker wires.
- Use 20 AWG (0.52 mm^2) for LED wires.

Additional Speakers

You can wire additional Tread 6.5" XS-LED Tower Speakers together. Refer to the owner's manual for your stereo system at garmin.com/express for more information.

Wireless Remote Overview

> ⚠ **WARNING**
>
> See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

⏮	Radio sources: Press to tune to the previous station. AUX sources: Press to decrease gain. Other sources: Press to skip to the beginning of the track or to the previous track.
⏭	Radio sources: Press to tune to the next station. AUX sources: Press to increase gain. Other sources: Press to skip to the next track.
▬	Press to decrease the volume. Hold to quickly decrease the volume.
➕	Press to increase the volume. Hold to quickly increase the volume.
⏻	Press to cycle through the available sources. Hold to pair with a stereo (*Connecting the Wireless Remote to your Tread Audio Box,* page 63).
▶❚❚	Radio and AUX sources: Press to mute or un-mute. Other sources: Press to pause or resume.

Connecting the Wireless Remote to your Tread Audio Box

1 Bring the Tread Audio System remote within 10 m (33 ft.) of the compatible stereo.

   NOTE: Stay 10 m (33 ft.) away from other ANT® devices while pairing.

2 On the Tread Audio Box, enable Bluetooth discoverable mode.

3 On the wireless remote, hold ⏻ until the status LED flashes green and red.

   The remote searches for the stereo. When the remote pairs successfully, the status LED flashes green briefly and turns off.

If the remote cannot find the stereo, the status LED flashes red briefly and turns off.

Pairing with a Garmin Navigation Device

You can pair your Tread Audio device with a compatible Garmin navigation device.

1   Update your compatible navigation device to the latest software.

   Your navigation device may not support the Tread Audio device without the latest software. For more information about updating the device software, see the owner's manual for your navigation device.

2   Turn on power to your Tread Audio device, and place your compatible Garmin navigation device within 1 m (3.3 ft.) of it.

3   On your compatible navigation device, open the Tread Audio app.

4   On your Tread Audio device, press ✳.

5   Follow the on-screen instructions to complete the pairing and setup process.

The main app dashboard appears. After the devices are paired, they connect automatically when they are turned on and within range.

Tread Audio Box Specifications

General	
Weight	997 g (2.2 lbs.)
Water resistance	IEC 60529 IPX7 (water), IEC 60529 IP6X (dust)[3]
Operating temperature range	From -20 to 70°C (from -4 to 158°F)
Storage temperature range	From -40 to 85°C (from -40 to 185°F)
Input voltage	From 8 to 14.4 Vdc
Current (max.)	40 A
Current (muted)	less than 650 mA
ANT wireless range	Up to 3 m (10 ft.)
Compass-safe distance	203 mm (8 in.)
Fuse	15 A mini-blade type
Bluetooth wireless range	Up to 10 m (30 ft.)

On-board, Class D Amplifier	
Output power per channel	4 x 100 W RMS at 14.4 Vdc input, 4 ohm, 10% THD[4]
Line output level (max.)	6.0 V (peak to peak)
Aux input level (typical)	1 V (RMS)

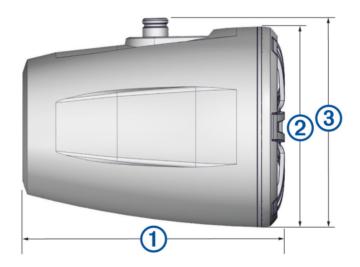| Tuner	
FM radio frequency range	87.5 to 107.9 MHz
FM frequency step	200 kHz
AM radio frequency range	530 to 1710 kHz
AM frequency step	10 kHz

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[3] The device withstands incidental exposure to water of up to 1 m for up to 30 min, and is protected against powerful jets of water. For more information, go to www.garmin.com/waterrating.
[4] The stereo may limit the output power to prevent the amplifier from overheating, and to maintain the audio dynamics.

Tread 6.5″ XS-LED Tower Speakers Specifications

|	
Max. power	200 W
RMS power	50 W
Sensitivity (1 W/1 m)	91 dB
Frequency response	From 80 Hz to 18 kHz
Recommended amplifier power (RMS, playing music)	From 20 to 150 W
Nominal voice coil diameter	30 mm
Impedance	4 ohms
Operating temperature range	From 0 to 50°C (from 32 to 122°F)
Storage temperature range	From -20 to 70°C (from -4 to 158°F)
Cone material	Polypropylene (PP) cone with cloth surround
Tweeter type	Aluminum dome
Water and dust rating	IEC 60529 IP67[5]
Compass-safe distance	310 cm (122 in.)
Weight	2.49 kg. (5.5 lb.)

Dimensions
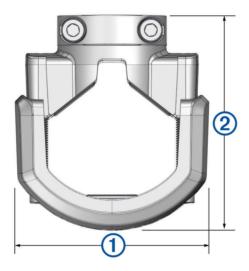
①	223 mm ($8^{13}/_{16}$ in.)
②	Ø 176 mm ($6^{15}/_{16}$ in.)
③	180 mm ($7^{1}/_{8}$ in.)

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[5] Protected against dust and water ingress.

Bracket Specifications

Material	Aluminum alloy with silicone pads
Supported roll bar sizes	From 33.4 mm (1.31 in.) to 50.8 mm (2.00 in.) outer diameter

Bracket Side Dimensions

①	85 mm (3^3/$_8$ in.)
②	From 74 mm (2^7/$_8$ in.) to 94 mm (3^{11}/$_{16}$ in.)

Bracket Top Dimensions

①	37 mm (1^7/$_{16}$ in.)
②	48 mm (2 in.)

Data Management

The device has a memory card slot for additional data storage.

NOTE: The device is compatible with Windows® 7 and newer, and Mac® OS 10.7 and newer. Apple® computers may require additional third-party software to read and write files.

Adding BaseCamp™ Data to Garmin Explore

You can export your BaseCamp data files and import them to Garmin Explore for use with your Tread device.

1 Export your data from BaseCamp:
- If you are using an Apple computer, see *Exporting Data from BaseCamp with an Apple Computer*, page 67.
- If you are using a PC, see *Exporting Data from BaseCamp with a PC*, page 67.

2 Import your BaseCamp data to the Garmin Explore website (*Importing Data to Garmin Explore*, page 67).

3 Synchronize your Garmin Explore data with your Tread device (*Synchronizing Garmin Explore Account Data*, page 36).

Exporting Data from BaseCamp with a PC

1 Select an option:
- To export all BaseCamp data stored on your computer, select **My Collection**, and select **File** > **Export** > **Export 'My Collection'**.
- To export one or more items or a list, select one or more items or a list, and select **File** > **Export** > **Export Selection**.

2 Enter a name, select a location for the exported file, select the file format, and select **Save**.

Exporting Data from BaseCamp with an Apple Computer

1 Select an option:
- To export all BaseCamp data stored on your computer, select **My Collection**, and select **File** > **Export 'My Collection'**.
- To export one or more items or a list, select one or more items or a list, and select **File** > **Export Selected User Data**.

2 Enter a name.

3 Select a location for the exported file.

4 Select the file format.

5 Select **Export**.

Importing Data to Garmin Explore

1 Go to explore.garmin.com and log in to your account.

2 Select the **Map** tab.

3 Select ⬇.

4 Follow the on-screen instructions.

The data syncs to the Tread app and your Tread device automatically.