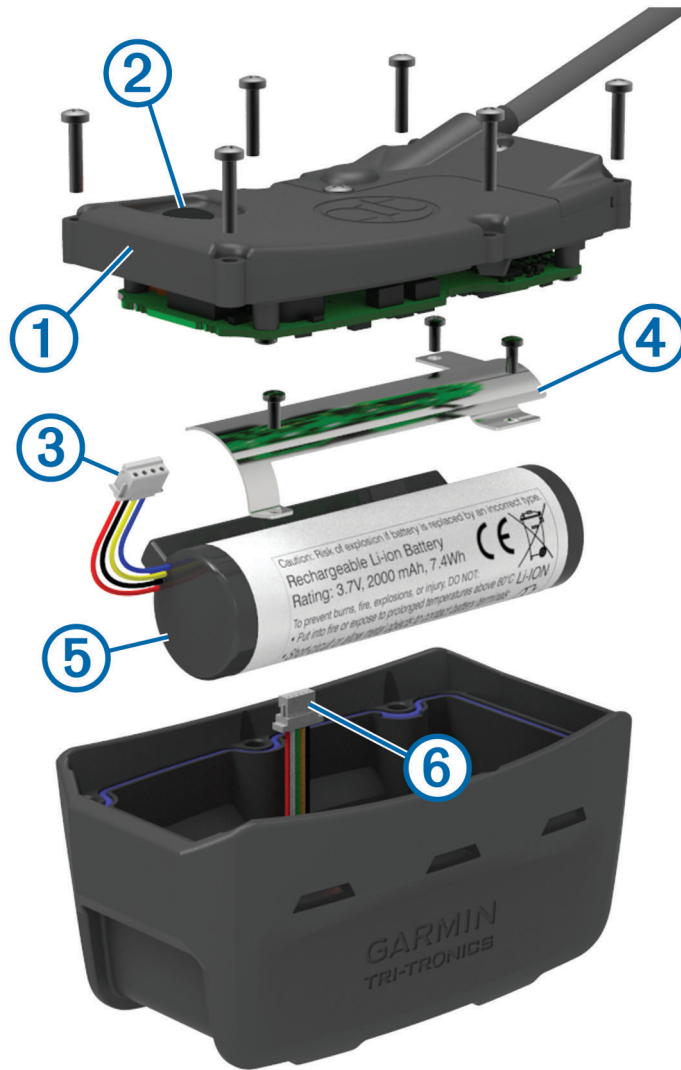


Dog Collar Device Battery Replacement Instructions

Dog Collar Device Components



①	Back plate
②	Power key
③	Battery connector
④	Battery cover
⑤	Battery
⑥	Power connector

Removing the Old Battery

Before you replace the battery, you must remove all dirt, water, and debris from the device. You must also have a small Phillips screwdriver.

- 1 Remove the six screws from the outer edges of the back plate.

NOTE: You should leave the two inner screws in place.

- 2 Pry off the back plate.
- 3 Disconnect the battery connector and power connector.
- 4 Remove the screws that secure the battery cover.
- 5 Remove the battery cover and the battery.

Remember the orientation of the battery. You must install the new battery the same way.

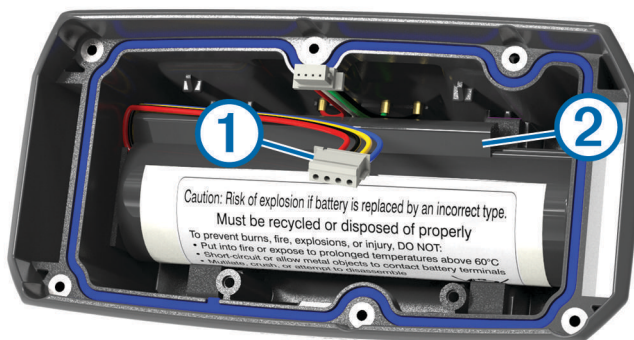
After you remove the old battery, contact your local waste disposal department to properly recycle the battery.

Installing the New Battery

Before you replace the battery, you must remove the old battery (*Removing the Old Battery, page 38*). You also must have a small Phillips screwdriver. You may need a small flat screwdriver.

- 1 Install the new battery using the same orientation as the old battery.

The connector ① should face the end nearest the power key, and the bump ② where the wires connect to the battery should face toward the side with the charging clip contacts.



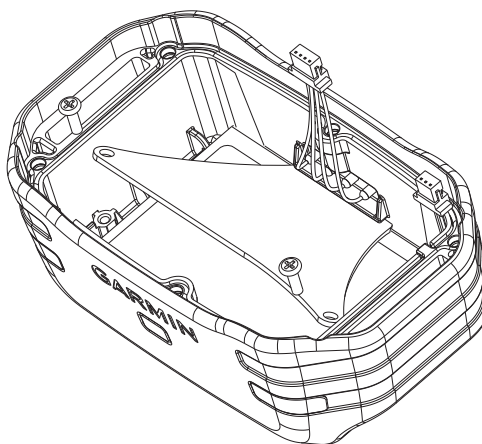
- 2 Replace the battery cover.
- 3 Replace the screws to secure the battery cover.
- 4 Connect the battery connector and power connector.
You may need to use a flat screwdriver to help secure the connectors.
- 5 Select the power key to test the connections.
When properly connected, a tone is emitted and the status LED blinks green.
- 6 Turn off the device.
- 7 Verify the gasket located inside the bottom cover is fully seated.
- 8 Replace the back plate.
- 9 Replace the six screws to secure the back plate.

After you install the new battery, charge the collar completely.

Replacing the Mini Dog Collar Device Battery

Before you can replace the battery, you must remove all dirt, water, and debris from the device. You also need a small Phillips screwdriver and the security screwdriver included in the battery replacement kit.

- 1 Remove the screws from the L-shaped cover over the VHF antenna.
- 2 Pry off the L-shaped cover.
- 3 Remove the screws from the outer edges of the back plate.
- 4 Pry off the back plate.
- 5 Grip the battery connector wires close to the connector, and pull the connector perpendicular to the circuit board to disconnect the battery connector from the device.
- 6 Grip the power connector wires close to the connector, and pull the connector parallel to the circuit board to disconnect the power connector from the device.
- 7 Remove the screws from the battery plate.
- 8 Remove the battery plate.
- 9 Remove the battery.
The battery fits tightly. It may be necessary to pry the battery out of the back plate using a non-sharp, non-metal object.
- 10 Install the new battery into the front enclosure with the label side of the battery facing up, and the leading edge of the battery placed under the charging contact ledge of the device.
- 11 Replace the battery plate, and replace and tighten the two screws.



- 12 Verify the gasket is not damaged and is completely seated in the groove.
- 13 Connect the battery connector and the power connector to the device.
When properly installed, the connector plugs snap into the ports.
- 14 Replace the back plate, and replace and tighten the screws to secure the back plate.
- 15 Replace the L-shaped cover, and replace and tighten the screws to secure the L-shaped plate.
- 16 Verify the gasket is not sticking out of the device.

Replacing the Collar Strap

Before you replace the collar strap, you must remove all dirt, water, and debris from the device ([Cleaning the Device, page 31](#)).

- 1 Pull the collar strap out of the GPS antenna, antenna guide, and the dog device.
You may need to push and pull the collar strap to properly remove it. You may need to loosen the screw on the GPS antenna case, but do not remove them.
- 2 Thread the new collar strap through the dog device, antenna guide, and GPS antenna.
- 3 If necessary, tighten the screws that secure the GPS antenna case.

Replacing the VHF Antenna in the Dog Collar Device

NOTICE

Do not excessively bend the band that connects the main device case with the GPS antenna.

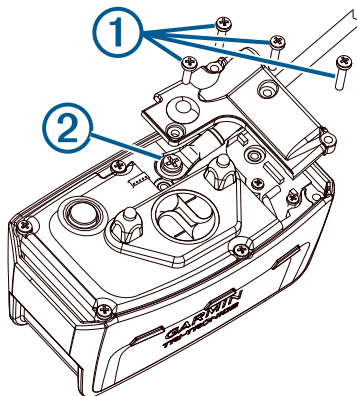
When the L-shaped cover is removed, do not disturb the sealant opposite the VHF antenna, because this can damage the waterproof seal of the dog collar device.

Before you replace the VHF antenna, you must remove all dirt, water, and debris from the device (*Cleaning the Device, page 31*). Also, you need a small Phillips screwdriver.

- 1 Remove the 4 screws ① from the L-shaped cover over the VHF antenna.

NOTE: You should note the location of the one short screw.

- 2 Pry off the L-shaped cover.



- 3 Remove the screw ② securing the VHF antenna to the back plate.
- 4 Pull the length of the antenna from the antenna guide to remove the old antenna.
- 5 Loop the antenna guide around the collar strap, and thread the new VHF antenna through the guide. This helps to point the antenna up.
- 6 Replace the screw securing the VHF antenna to the back plate.
- 7 Replace the L-shaped cover over the VHF antenna.
- 8 Replace the 4 screws on the L-shaped cover, replacing the short screw in the correct location.

Changing the Fuse in the Vehicle Power Cable

NOTICE

When replacing the fuse, do not lose any of the small pieces and make sure they are put back in the proper position. The vehicle power cable does not work unless it is assembled correctly.

If your device does not charge in your vehicle, you may need to replace the fuse located at the tip of the vehicle adapter.

- 1 Rotate the end piece ① counter clockwise to unlock it.



TIP: You may need to use a coin to remove the end piece.

- 2 Remove the end piece, the silver tip ②, and the fuse ③.
- 3 Insert a new fast-blow fuse that has the same current, such as 1 A or 2 A.
- 4 Place the silver tip in the end piece.
- 5 Push in the end piece and rotate it clockwise to lock it back into the vehicle power cable ④.

Data Field Options

24 hr. Max. Temperature: The maximum temperature recorded in the last 24 hours.

24 hr. Min. Temperature: The minimum temperature recorded in the last 24 hours.

Accuracy of GPS: The margin of error for your exact location. For example, your GPS location is accurate to within +/- 12 ft. (3.65 m).

Alarm Timer: The current time of the countdown timer.

Ambient Pressure: The uncalibrated environmental pressure.

Ascent - Average: The average vertical distance of ascent since the last reset.

Ascent - Maximum: The maximum rate of ascent in feet per minute or meters per minute since the last reset.

Ascent - Total: The total elevation distance ascended since the last reset.

Automotive Turn: The direction of the next turn in the route. You must be navigating for this data to appear.

Average Lap: The average lap time for the current activity.

Barometer: The calibrated current pressure.

Battery Level: The remaining battery power.

Bearing: The direction from your current location to a destination. You must be navigating for this data to appear.

Calories: The amount of total calories burned.

Compass Heading: The direction you are moving based on the compass.

Course: The direction from your starting location to a destination. Course can be viewed as a planned or set route. You must be navigating for this data to appear.

Current Lap: The stopwatch time for the current lap.

Date: The current day, month, and year.

Descent - Average: The average vertical distance of descent since the last reset.

Descent - Maximum: The maximum rate of descent in feet per minute or meters per minute since the last reset.

Descent - Total: The total elevation distance descended since the last reset.

Distance to Dest.: The remaining distance to the final destination. You must be navigating for this data to appear.

Distance to Next: The remaining distance to the next waypoint on the route. You must be navigating for this data to appear.

Elapsed Track Time: The total time recorded. For example, if you start the timer and run for 10 minutes, then stop the timer for 5 minutes, then start the timer and run for 20 minutes, your elapsed time is 35 minutes.

Elevation: The altitude of your current location above or below sea level.

Elevation Above Ground: The altitude of your current location above ground level (if maps contain sufficient elevation information).

Elevation - Maximum: The highest elevation reached since the last reset.

Elevation - Minimum: The lowest elevation reached since the last reset.

ETA at Destination: The estimated time of day when you will reach the final destination (adjusted to the local time of the destination). You must be navigating for this data to appear.

ETA at Next: The estimated time of day when you will reach the next waypoint on the route (adjusted to the local time of the waypoint). You must be navigating for this data to appear.

Glide Ratio: The ratio of horizontal distance traveled to the change in vertical distance.

Glide Ratio to Dest.: The glide ratio required to descend from your current position to the destination elevation. You must be navigating for this data to appear.

GPS Elevation: The altitude of your current location using GPS.

GPS Heading: The direction you are moving based on GPS.

GPS Signal Strength: The strength of the GPS satellite signal.

Grade: The calculation of rise (elevation) over run (distance). For example, if for every 10 ft. (3 m) you climb you travel 200 ft. (60 m), the grade is 5%.

Heading: The direction you are moving.

Lap Ascent: The vertical distance of ascent for the current lap.

Lap Descent: The vertical distance of descent for the current lap.

Lap Distance: The distance traveled for the current lap.

Laps: The number of laps completed for the current activity.

Lap Speed: The average speed for the current lap.

Last Lap Ascent: The vertical distance of ascent for the last completed lap.

Last Lap Descent: The vertical distance of descent for the last completed lap.

Last Lap Distance: The distance traveled for the last completed lap.

Last Lap Speed: The average speed for the last completed lap.

Last Lap Time: The stopwatch time for the last completed lap.

Location (lat/lon): The current position in latitude and longitude regardless of the selected position format setting.

Location (selected): The current position using the selected position format setting.

Location of Dest.: The position of your final destination. You must be navigating for this data to appear.

None: This is a blank data field.

Odometer: A running tally of distance traveled for all trips. This total does not clear when resetting the trip data.

Off Course: The distance to the left or right by which you have strayed from the original path of travel. You must be navigating for this data to appear.

Pointer: An arrow points in the direction of the next waypoint or turn. You must be navigating for this data to appear.

Speed: The current rate of travel.

Speed Limit: The reported speed limit for the road. Not available in all maps and in all areas. Always rely on posted road signs for actual speed limits.

Speed - Maximum: The highest speed reached since the last reset.

Speed - Moving Avg.: The average speed while moving since the last reset.

Speed - Overall Avg.: The average speed while moving and stopped since the last reset.

Stopwatch Timer: The stopwatch time for the current activity.

Sunrise: The time of sunrise based on your GPS position.

Sunset: The time of sunset based on your GPS position.

Temperature: The temperature of the air. Your body temperature affects the temperature sensor.

Time of Day: The current time of day based on your current location and time settings (format, time zone, daylight saving time).

Time to Destination: The estimated time remaining before you reach the destination. You must be navigating for this data to appear.

Time to Next: The estimated time remaining before you reach the next waypoint in the route. You must be navigating for this data to appear.

To Course: The direction in which you must move to get back on the route. You must be navigating for this data to appear.

Total Lap: The stopwatch time for all the completed laps.

Trip Odometer: A running tally of the distance traveled since the last reset.

Trip Time: A running tally of the total time spent moving and not moving since the last reset.

Trip Time - Moving: A running tally of the time spent moving since the last reset.

Trip Time - Stopped: A running tally of the time spent not moving since the last reset.

Turn: The angle of difference (in degrees) between the bearing to your destination and your current course. L means turn left. R means turn right. You must be navigating for this data to appear.

Velocity Made Good: The speed at which you are closing on a destination along a route. You must be navigating for this data to appear.

Vertical Dist. to Dest.: The elevation distance between your current position and the final destination. You must be navigating for this data to appear.

Vertical Dist. to Next: The elevation distance between your current position and the next waypoint in the route. You must be navigating for this data to appear.

Vertical Speed: The rate of ascent or descent over time.

Vertical Speed to Dest.: The rate of ascent or descent to a predetermined altitude. You must be navigating for this data to appear.

Waypoint at Dest.: The last point on the route to the destination. You must be navigating for this data to appear.

Waypoint at Next: The next point on the route. You must be navigating for this data to appear.

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