

TELETRAC NAVMAN



Qtanium 100

INSTALLATION MANUAL

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It is the Owner's sole responsibility to install and use the Qtanium 100 (the Product) in a manner that will not cause accidents, personal injury or property damage. For the purpose of this notice, "Owner", "you" and "your" means the party (including any person authorized by that party to use and / or install the Product) that has either: (a) purchased the Product; or (b) leased the Product from Teletrac Navman or its related companies. The Owner of this Product is solely responsible for observing safe driving practices.

The choice, location and installation of all components of the Product is critical. If installation is not correct, the Product may not perform at its designed potential or specifications. Ensure that any mounting holes that need to be cut in the vehicle will not weaken the vehicle structure or compromise the safety of the vehicle or its occupants. If in doubt, consult the vehicle manufacturer, or your Teletrac Navman dealer.

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EMC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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1 Overview

The Teletrac Navman Qtanium 100 is self-contained, battery-powered, asset tracker. It contains an internal GPS receiver and an internal cellular antenna that eliminate the need for external antennas.

The Qtanium 100 collects accurate operational and location information about the asset (such as a trailer) and transmits this data to the DIRECTOR software.

The Qtanium 100 can be installed on an asset using screws, bolts, or magnets. The choice of mounting location and the mounting method depends upon the type of asset. If the Qtanium100 is likely to be moved between different assets over time, magnets are the best option.

Note This installation manual is written for professional vehicle technicians.

2 Hardware

The box contains:

- 1 Qtanium 100 (with the internal battery in place)
- 8 flat washers
- 4 self-tapping mounting screws (Hex washer head)
- 4 nuts (with Nylock insert)
- 4 bolts

An optional Magnetic Mounting Kit is available, which contains:

- 1 lanyard 45 cm (18")
- 1 lanyard quick link
- 1 lanyard tab (stainless steel plate with three holes)
- 4 magnets (each with a pre-inserted screw)
- 4 flat washers
- 4 nuts (with Nylock insert)

3 Mounting Locations

Important The Qtanium 100 contains an accelerometer that detects movement. It is critical that the Qtanium 100 is mounted securely and cannot move independently of the asset OR vibrate off its mounting location. Insecure mounting may result in false or incorrect vehicle movement alerts.

The installation is considered to be permanent as the firmware can be updated without removing the Qtanium 100 from the asset. Always comply with the following important installation information:

- Ensure that the chosen mounting location will protect the Qtanium 100 from damage when stacking the chassis or operating the asset.
- Optimal GPS performance will be achieved if the mounting location provides the Qtanium 100 with a clear view of the sky.
- If the mounting location is on a HORIZONTAL surface, the Qtanium 100 must face UP or DOWN.
- If the mounting location is on a VERTICAL surface, the Qtanium 100 must be horizontal with the label facing DOWN.

4 Installation

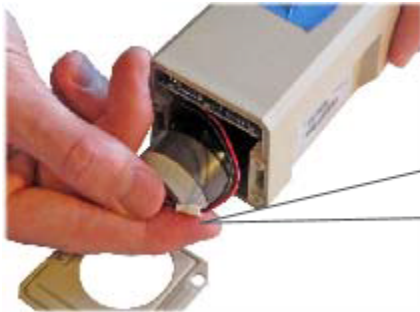
Important Ensure that any holes drilled for the installation will not weaken the structure of the asset or compromise the safety of the asset or its occupants. If in doubt, consult the manufacturer.

1. Record the MSN (Module Serial Number) shown on the Qtanium 100 label, and the asset number.
2. Select a mounting location.
3. Mount the Qtanium 100 using one of the following three methods:
 - Screws - Use the 4 mounting screws and 4 flat washers. Position each flat washer between the screw head and the Qtanium 100 housing.
 - Bolts - Use the 4 bolts, 8 flat washers, and 4 nuts. Position a flat washer between each bolt head and the Qtanium 100 housing, and another flat washer between each nut and the asset.
 - Magnets - Use the optional Magnetic Mounting Kit. Each magnet **MUST** be in contact with the mounting surface. At one end of the Qtanium 100, position a flat washer over each magnet screw, between each nut and the Qtanium 100 housing. At the other end, position the lanyard tab over the 2 magnet screws then secure using 2 flat washers and 2 nuts. Wrap the lanyard around or through the chassis or a locking rod then attach both end loops to the quick link. Attach the quick link to the remaining hole in the lanyard tab.
4. Remove the activation magnet (under the blue tape) from the Qtanium 100. This automatically activates event reporting and the Qtanium 100 sends an event to DIRECTOR.
5. Keep the activation magnet so that event reporting can be disabled if the Qtanium 100 is removed from the asset.
6. Position the asset outside, in a location that has a good view of the sky and good cellular reception.
7. EITHER use the mobile DIRECTOR application on your phone to check that the Qtanium 100 has established contact OR call DIRECTOR Support with the following details and ask them to associate the Qtanium 100 with the asset number:
 - Customer Name
 - Qtanium 100 MSN
 - Asset number and asset VIN

5 Battery Replacement



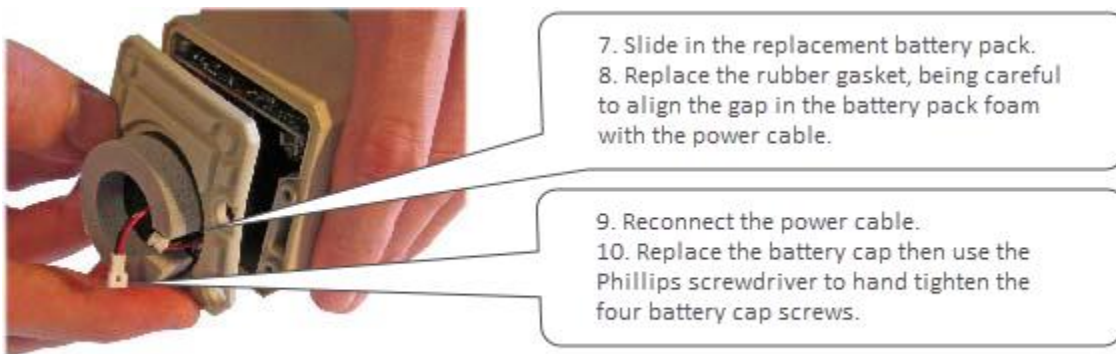
1. Use a Phillips screwdriver to remove the four battery cap screws and set aside.
2. Remove the battery cap and set aside.



3. Remove the rubber gasket, being careful to align the gap in the battery pack foam with the power cable, and set aside.
4. Disconnect the red and black power cable by pulling the two white connector halves apart (do NOT pull the power wires).



5. The power cable is disconnected. The four battery cap screws, rubber gasket, and battery cap are set aside.



6 Specifications

PHYSICAL	
Weight	907g (32 oz)
Dimensions	55 x 55 x 260 mm (2.25 x 2.25 x 10.5")
GENERAL	
Communication modes	GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS
Location technology	50 channel GPS
Operating voltage	3.6 V
Internal cellular and GPS antennas	
IP67 sealed and ruggedized enclosure	
INTERNAL BATTERY	
Capacity	57 amp hour
Technology	Lithium
Replaceable battery pack	
POWER CONSUMPTION	
Deep sleep	1mA
Sleep on network	10 mA
Active Standby	70 mA
ENVIRONMENTAL	
Storage Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Operational Temperature	-30 °C to +75 °C (-32 °F to +167 °F)
Humidity	95% RH @ 50 °C non-condensing
Shock & Vibration	U.S. Military Standards 202G and 810F, SAE j1455
EMC/EMI	SAE J113; FCC – part 15B; Industry Canada
RoHS Compliant	
CERTIFICATIONS	
FCC	
CE	
IC	
PTCRB	
Applicable carriers	