



# GEOTRACK TPMS INSTALLATION MANUAL

Telematics System for Commercial Vehicles



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# GEOTRACK TPMS Installation Manual

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### Record of Revisions

Retain this record in front of the manual. Upon receipt of a revision, insert revised pages in the manual, enter revision number, date filed, and initial.

Revision Number	Revision Date	By
A	February 18, 2020	CS
B	October 22, 2020	CS
C	October 1, 2021	CS

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**Always consult with your Certified Safety Administrator prior to any installation procedures.  
Read and understand all instructions and procedures before service to components begins.**

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This manual provides installation and maintenance procedures GEOTRACK TPMS by TOUGH. Use the procedures in this manual to install the system on commercial vehicles.

For GEOTRACK TPMS component installation instructions, please refer to the GEOTRACK TPMS Installation & Maintenance Manual.

### Before You Begin



**CAUTION:** DO NOT PERFORM UNAUTHORIZED MAINTENANCE OR REPAIR PROCEDURES, OR INSTALL NON TOUGH COMPONENTS ON ANY TOUGH SYSTEM. THIS CAN VOID THE WARRANTY.

1. Read and understand all instructions and procedures before service to components begins.
2. Read and observe all Warning and Caution alert messages in this publication. They provide information that can prevent personal injury, damage to components, or both.
3. Follow the TOUGH installation, maintenance, service, and troubleshooting guidelines.
4. Use special tools, when required, to avoid personal injury and damage to components.

### Hazard Alert Messages and Torque Symbols



#### **WARNING:**

A Warning alerts the technician to an instruction or procedure that must be followed to avoid personal injury and damage to components.



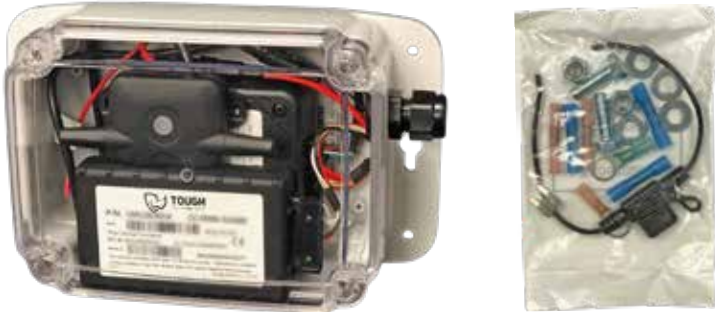

#### **CAUTION:**




A Caution alerts the technician to an instruction or procedure that must be followed to avoid damage to components.



#### **TORQUE REQUIRED:**

The torque symbol alerts the technician to tighten fasteners to a specified torque value.

<p><b>Sending Unit (Internal Mount)</b>          (includes Sending Module, Integration Module, Receiver, Wiring Harness, Hardware Bag)</p>	
<p><b>Sending Unit (External Mount)</b>          (includes Sending Module, Integration Module, Receiver, Wiring Harness, Weatherproof Enclosure, Hardware Bag)</p>	
<p><b>Weatherproof Enclosure</b></p>	
<p><b>Sending Module</b></p>	
<p><b>Integration Module</b></p>	

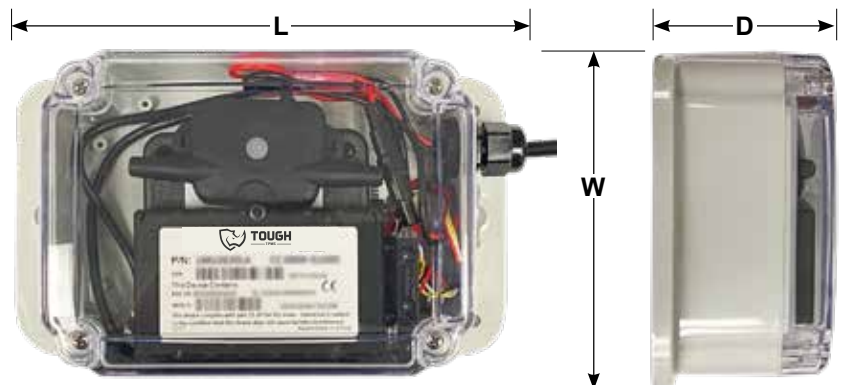
Receiver	
Wiring Harness	
Hardware Bag	

### Sending Unit Specifications

Temperature Operating Range	-4°F to 140°F / -20°C to 60°C
Storage Temperature Range	-4°F to 140°F / -20°C to 60°C when stored up to 2 months -4°F to 77°F / -20°C to 25°C when stored for more than 2 months
Frequency	Cellular, GPS
Transmit current / duration	130mA / 500ms
Standby current	45mA
Working Voltage	8V to 30V
Size (Internal Use)	3.6"(L) x 3.7"(W) x 2.2"(D) 91mm (L) x 94mm (W) x 56mm (D)
Size (External Use)	7.6"(L) x 4.5"(W) x 2.4"(D) 193mm (L) x 114mm (W) x 61mm (D)
Weight (Internal Use)	7.0 oz. (200 grams)
Weight (External Use)	21.0 oz. (600 grams)



**Sending Unit (Internal Mount)**



**Sending Unit (External Mount)**



The GEOTRACK TPMS ending unit can be mounted on the tractor/truck or trailer.

### Tractor/Truck Mounting

1. Identify a suitable mounting location for the GEOTRACK TPMS sending unit on the Tractor/Truck. See *Figure 1*.

**Option 1:** External mounting requires GEOTRACK TPMS sending unit to be in weatherproof enclosure.


**Option 2:** In-cab mounting does not require weatherproof enclosure. GEOTRACK TPMS sending unit may be secured with 2-sided foam tape or hook and loop fastener.

#### CAUTION

Do not mount GEOTRACK TPMS sending unit where tires can throw debris onto enclosure as this could cause damage.

#### CAUTION

Make sure location is suitable to route power supply cable to the GEOTRACK TPMS sending

2. Use the GEOTRACK TPMS weatherproof enclosure as a template to mark for drilling the mounting holes and use a 3/8" drill bit to drill two holes (6 5/8" apart). See *Figure 2*.
3. Use the supplied bolts, washers and locknuts to attach the GEOTRACK TPMS weatherproof enclosure to the tractor/truck.
  -  Torque to 8-10 ft.-lbs. See *Figure 3*.

### Trailer Mounting


1. Identify a suitable mounting location for the GEOTRACK TPMS weatherproof enclosure on the Trailer. See *Figure 4*.

#### CAUTION

Do not mount GEOTRACK TPMS weatherproof enclosure where tire can throw debris onto enclosure as this could cause damage.

#### CAUTION

Make sure location is suitable to route power supply cable to the unit.

2. Use the GEOTRACK TPMS weatherproof enclosure as a template to mark for drilling the mounting holes and use a 3/8" drill bit to drill two holes (6 5/8" apart). See *Figure 2*.
3. Use the supplied bolts, washers and locknuts to attach the GEOTRACK TPMS weatherproof enclosure to the trailer.
  -  Torque to 8-10 ft.-lbs. See *Figure 3*.

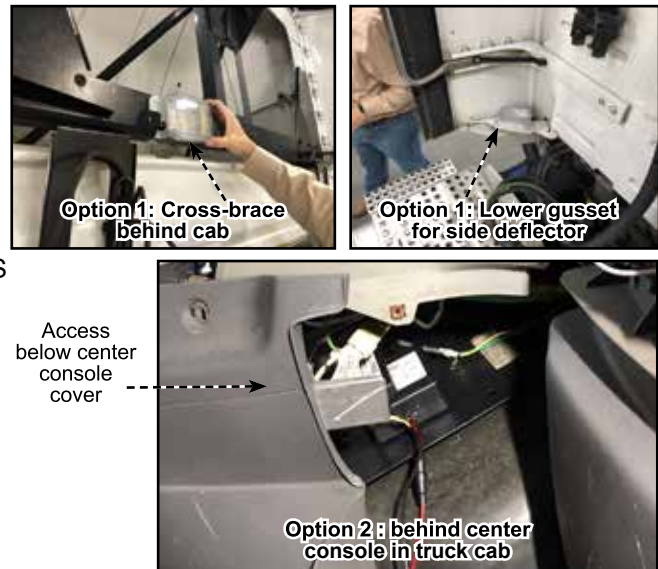


Figure 1: Suitable mounting locations (Tractor/Truck)



Figure 2: Mark drilling template



Figure 3: Mount using supplied hardware



Figure 4: Suitable mounting locations (Trailer)

### Final Wiring Electrical Harness

The GEOTRACK TPMS sending unit will need 8-30V positive (+) electrical power and ground (-).

1. Route the cable supplied with your GEOTRACK TPMS Kit from the 8-30V (+) and ground (-) source to the mounted GEOTRACK TPMS sending unit.
2. Routing through the liquid tight connector, make connections on the (+) and (-) wires inside the GEOTRACK TPMS sending unit to the supplied wire harness. Tighten the liquid tight sealing nut to secure cable. See Figure 5.
3. Make connection on the supplied fuse holder to the (+) wire on the cable. Connect supplied ring terminals to the supplied cable. See Figure 6.
4. Connect cable to battery (+) and (-).
5. Insert supplied 2A fuse into fuse holder.

### GEOTRACK TPMS indicator lights

1. The GEOTRACK TPMS receiver indicator will also begin blinking. See Figure 7.
2. The GEOTRACK TPMS sending module indicators will begin blinking and acquire signal. See Figure 7.

**NOTE:** Once the Sending Unit green and red LED indicators are illuminated solid and the Receiver red LED is blinking, you may proceed to GEOTRACK TPMS Platform Setup.

**NOTE:** If GPS or cellular signal cannot be acquired you may be encountering interference due to surroundings (metal buildings, other obstructions). Move the vehicle to an unobstructed area.

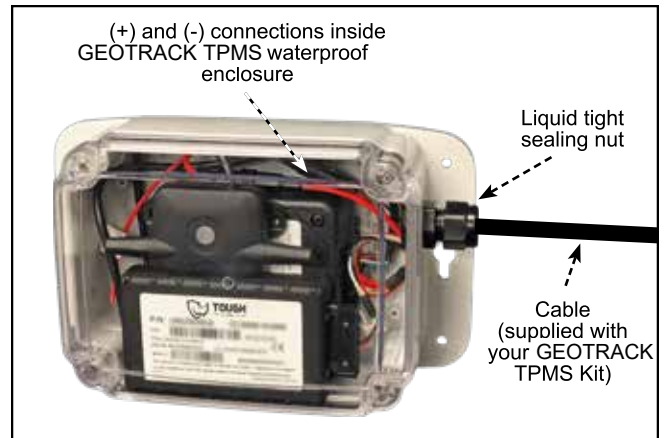


Figure 5: Connections inside GEOTRACK TPMS unit

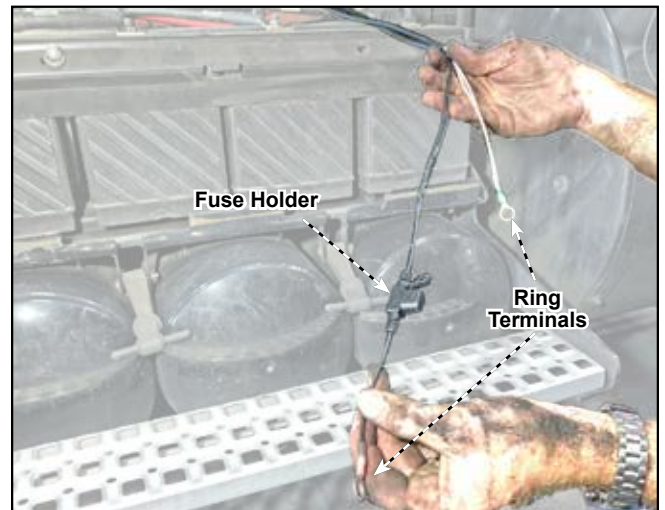







Figure 6: Connections to power source and ground

GEOTRACK TPMS Receiver indicator light		
LED (Signal)	Signal ACQUIRED (Blinking)	NO LIGHT
RED		Check power connection

GEOTRACK TPMS Sending Module indicator lights		
LED (Signal)	SEARCHING for Signal (Blinking)	Signal ACQUIRED (Solid)
GREEN (GPS)		
RED (Cellular)		

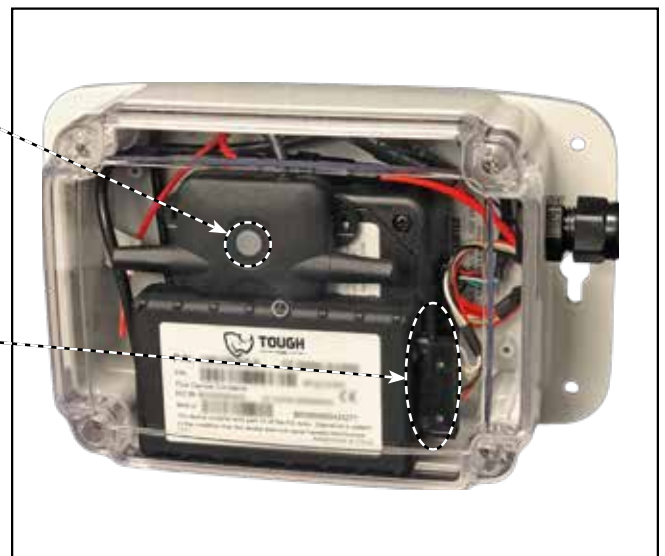


Figure 7: Receiver and sending unit indicator lights



### Support and Troubleshooting Information

For GEOTRACK TPMS component installation instructions, please visit the [WWW.OTRUSA.ODOO.COM/TOUGH-TPMS](http://WWW.OTRUSA.ODOO.COM/TOUGH-TPMS)

### Additional Contact Information

Website: [www.otrusa.com](http://www.otrusa.com)  
[otrusa.odoo.com/tough-tpms](http://otrusa.odoo.com/tough-tpms)  
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