

Telematics Control unit TPH55M

Installation Manual



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General information

READ BEFORE STARTING

This installation guide is designed to assist authorised and qualified personnel. Carefully read this guide before you start working! All users of the Goodyear Tire Pressure Monitoring System TPMS must be trained on the correct usage and the potential mis-uses of the system. It is essential that good mounting procedures are followed in order to obtain optimum tire performance and operating efficiency.

The TPH55M device is compatible with light commercial vehicle with a 12 Vdc, maximum 15 A fused electric system and a OBDII connector.

⚠ CAUTION THE TPH55M SHALL ONLY BE INSTALLED, MANTAINED AND SERVICED BY SKILLED PERSONS.

⚠ CAUTION MAKE SURE THE VEHICLE IS FULLY FUNCTIONAL AND THERE ARE NO WARNINGS LIGHTS ON THE DASHBOARD PRIOR TPH55M INSTALLATION.



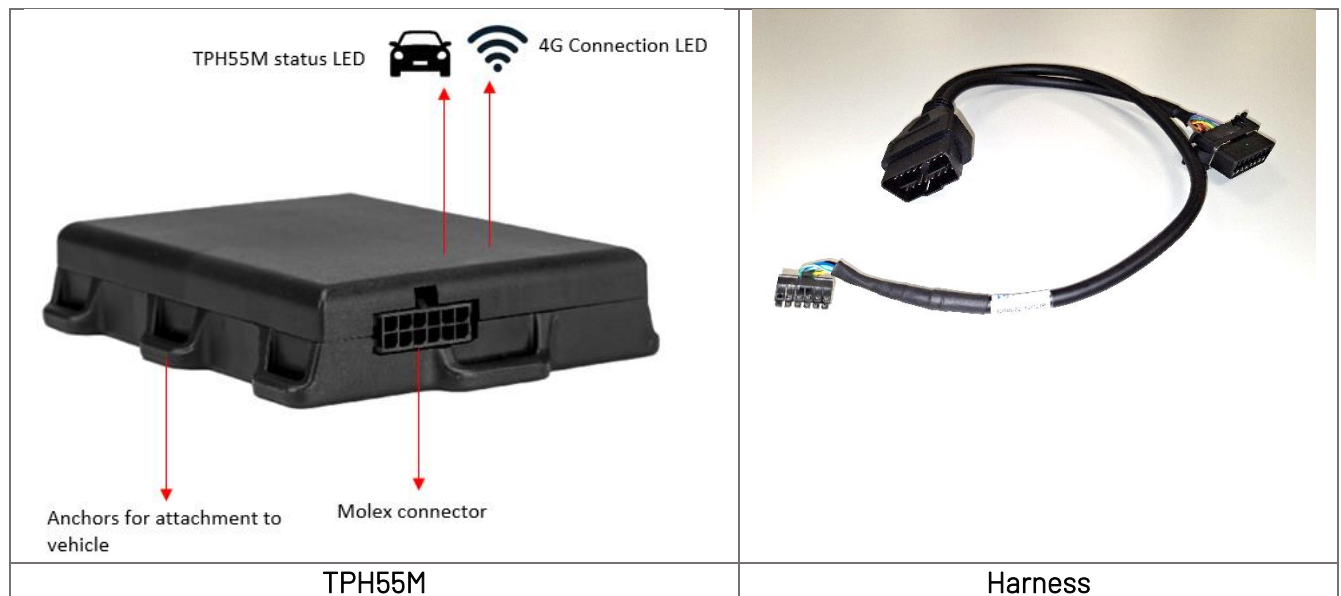
CAUTION: PCB MAY HAVE HOT COMPONENTS.

⚠ WARNING POOR MECHANICAL INSTALLATION CAN PRODUCE RISK OF FIRE AND MALFUNCTION OF VEHICLE SAFETY SYSTEMS THAT CAN RESULT IN VEHICLE DAMAGE, PERSONAL INJURY, OR DEATH.

⚠ WARNING THE TPH55M SHALL ONLY BE INSTALLED, MANTAINED, SERVICED AND REMOVED WHILE VEHICLE IS STATIONARY AND SAFELY PARKED. FAILURE TO DO THIS COULD RESULT IN MALFUNCTIONS OR ACCIDENTS LEADING TO VEHICLE DAMAGE, PERSONAL INJURY, OR DEATH.

⚠ WARNING DO NOT USE YOUR SMARTPHONE OR TABLET WHILE DRIVING. FAILURE TO PAY ATTENTION WHILE DRIVING CAN RESULT IN VEHICLE DAMAGE, PERSONAL INJURY, OR DEATH.

Know your device



Installation on vehicle

The installation may vary from vehicle to vehicle. The installation procedure described below is generic and must be adapted to each vehicle:

1. Turn off the vehicle engine.
2. Find the OBDII port on the vehicle, normally located at the driver's leg room or under the steering wheel column. If the OBDII port is not directly accessible it might be under a plastic panel. Then, remove vehicle plastic panel located between the steering wheel column and driver left leg. The exact location of the OBDII port can be found in the vehicle user manual.
3. Connect the provided harness to the vehicle OBDII port.
4. Connect the TPH55M to the harness.
5. Secure tightly the TPH55M to the vehicle using nylon ties through the anchor points on the plastic casing. Make sure the device is firmly secured to the vehicle and tight. Consider the following:
 - a. Cable should not be under tension.
 - b. Must not interfere with pedals or steering wheel adjustment.
6. Secure all loose cables/ parts with cable ties.
7. Restore the plastic panel if previously removed.
8. Turn on the vehicle engine.

Device registration on Goodyear application

The TPH55M installed on the vehicle needs to be registered and linked to a vehicle plate number. To do so, use the Goodyear App that can be downloaded on the following link [link to be provided].

1. Open the Goodyear App on your smartphone or tablet and log-in using the credentials provided by Goodyear.
2. Follow the steps and indications on the App to create a new vehicle.
3. Make sure the vehicle is parked in a place where LTE connection is available, avoiding underground parking lots and remote areas. Start the vehicle engine and wait for the TPH55M to connect to the LTE network. Once the TPH55M will connect the newly created vehicle will show up as "online" on the Goodyear App.
4. Now the TPH55M is operational and tire and vehicle-related information is available on the Goodyear platform.

LED status for diagnostics

The TPH55M has 2 blinking LEDs that provide information about the status of the device:

Vehicle LED: it provides information about the TPH55M-vehicle status (trip, sleep, stationary).

Connection LED: it provides information about the TPH55M connection to the LTE 4G network.

	BLUE	Initializing, or no trip detected
	GREEN	Trip detected/ in progress
	WHITE	Stopped logging/ trip ended/ now going to sleep
	MAGENTA	Stationary mode (blinking), If solid OTA in prog. allow 4m to complete
	BLUE	Initialization or OTA in progress - Do not unplug
	GREEN	Cellular connection is established
	RED	Cellular connection is lost
	WHITE	Trying to establish a cellular connection

A few minutes after the vehicle engine is turned off both LEDs will automatically switch off (TPH55M in sleep mode)

Technical support

In case of technical support needed please contact your Goodyear representative. Contact information can be found on the following link [link to be provided].

Radio information

Technology	BLE	IEEE 802.11 b/g/n (20/40 MHz)	433 MHz
Freq Range	2402-2480 MHz (40 channels)	2412-2472 MHz (13/9 channels)	433.92 MHz (receiving only)
Pmax1	-2 dBm	12 dBm	
Pmax1 Power	EIRP average (calculated)	EIRP average (calculated)	
Gmax	2.5 dBi	2.5 dBi	

Regulatory statement

This equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Simplified EU Declaration of Conformity (DoC)

Hereby, Goodyear declares that the radio equipment type TPH55M is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following internet address: [link to be provided].

FCC and ISED declarations

Compliance Statement (Part 15.19)

This device complies with Part 15 of the FCC Rules and to RSS of Industry Canada. 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Warning (Part 15.21)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Interference Statement (Part 15.105 (b))

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de Classe B est conforme à la norme Canadienne ICES-003.

To comply with FCC and Industry Canada RF radiation exposure limits for general population, the antenna(s) used for this transmitter must be installed such that a minimum separation distance of 20 cm is maintained between the radiator (antenna) and all persons at all times and must not be co-located or operating in conjunction with any other antenna or transmitter.