Tesla Inc 1509518 TPMS Tire Pressure Monitoring System User Manual

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Contents

1509518 TPMS Tire Pressure Monitoring System

Tire pressure warning. The pressure of a tire is out of range. If a fault with the Tire Pressure Monitoring System (TPMS) is detected, the indicator flashes. View tire pressures in the “Cards” area, located below the touchscreen’s car status area, as described in Touchscreen Overview on page 4. For a TPMS fault, contact Tesla. See Tire Care and Maintenance on page 155.

- Reset TPMS Sensors: Reset the TPMS sensors after replacing a wheel (see Manually Resetting TPMS Sensors on page 158).
- The Tire Pressure indicator light does not immediately turn off when you adjust tire pressure. After inflating the tire to the recommended pressure, you must drive over 15 mph (25 km/h) for more than 10 minutes to activate

the Tire Pressure Monitoring System (TPMS), which turns off the Tire Pressure indicator light.

- If the indicator light flashes for one minute whenever you power on vehicle, a fault with the TPMS is detected (see TPMS Malfunction on page 159).
- **Note:** Display tire pressures in the “Cards” area, located toward the bottom on the left side of the touchscreen, as described in Touchscreen Overview on page 4. You can
- If you replace a wheel, the TPMS (Tire Pressure Monitoring System) sensors need to be reset to ensure they provide accurate warnings when tires are under- or over-inflated (see Automatic Reset of TPMS Sensors on page 158).
- For the specification of the original wheels and tires installed on vehicle, see Wheels and Tires on page 178.
- **Warning:** For your safety, use only tires and wheels that match the original specification. Tires that do not match the original specification can affect the operation of the TPMS.
- **Warning:** Never exceed the speed rating of your vehicle’s tires. The speed ratingis shown on the sidewall of your tires (see Understanding Tire Markings on page 180).

Tire Pressure Monitoring

Each tire should be checked monthly when cold and inflated to the recommended pressures that are printed on the Tire and Loading Information label located on the driver’s door pillar (see Maintaining Tire Pressures on page 155). If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, determine the proper tire inflation pressure for those tires.
As an added safety feature, your vehicle has been equipped with a TPMS that displays a tire pressure telltale (Tire Pressure Warning) on the touchscreen when one or more of your tires is significantly under- or over-inflated. Accordingly, when the Tire Pressure indicator light displays on the touchscreen to alert you about tire pressure, stop and check your tires as soon as possible, and inflate them to the proper pressure (see Maintaining Tire Pressures on page 155). Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under- inflation also reduces range efficiency and tire tread life, and may affect the vehicle’s handling and stopping ability.

If vehicle detects a fault with the TPMS, this indicator flashes for one minute whenever you power on vehicle.
Note: Installing accessories that are not approved by Tesla can interfere with the TPMS.
Warning: The TPMS is not a substitute for proper tire maintenance, including manually checking tire pressures and regularly inspecting the condition of tires. It is the driver’s responsibility to maintain correct tire pressure, even if under- or over-inflation has not reached the level for the TPMS to trigger the Tire Pressure Warning on the touchscreen.

Automatic Reset of TPMS Sensors

After replacing one or more wheels (but not after replacing a tire or rotating wheels), the TPMS sensors are reset to ensure tire pressure warnings are accurate. TPMS sensors reset automatically after driving over 15 mph (25 km/h) for longer than 10 minutes.
Note: After replacing a wheel, false tire pressure warnings may display before you’ve driven 15 mph (25 km/h) for longer than 10 minutes.

Manually Resetting TPMS Sensors

To accommodate aftermarket tires and specific off-highway driving situations (such as track events), you can reset the TPMS sensors to trigger an alert based on the currently set tire pressure instead of the default factory tire pressure. To do so, touch Service > Reset TPMS Sensors and follow the onscreen instructions.
Note: Resetting TPMS sensors may be especially helpful when using Track Mode, but remember to restore the factory TPMS setting when returning to normal driving.

Warning: If your vehicle is equippedwith aftermarket tires that differ in size from those printed on the Tire and Loading Information Label (see Vehicle Loading on page 171), it is the driver’s responsibility to determine the correct tire pressure. Do not drive on public roads when tires are not inflated to the correct pressure.

Warning: Do not depend on TPMS sensors to accurately determine pressures and trigger alerts. It is the

driver's responsibility to maintain correct tire pressures (see Maintaining Tire Pressures on page 155). Over or under-inflated tires can result in loss of control or tire damage, which can lead to serious injury.

Replacing a Tire Sensor

If the Tire Pressure warning indicator displays frequently, contact Tesla to determine if a tire sensor needs to be replaced. If a non-Tesla Service Center repairs or replaces a tire, the tire sensor may not work until Tesla performs the setup procedure.

TPMS Malfunction

Vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly.

The TPMS malfunction indicator is  combined with the tire pressure indicator light. When the system detects a malfunction, the indicator flashes for approximately oneminute after vehicle powers on, and then remains continuously lit. This sequence continues upon subsequent vehicle start-ups as long as the malfunction exists. When the TPMS malfunction indicator is on, the system might not be able to detect or signal under- and over-inflated tires as intended.

TPMS malfunctions can occur for a variety of reasons, including installing replacement or alternate tires or wheels that prevent the TPMS from functioning properly. Alwayscheck the TPMS malfunction indicator light after replacing one or more tires or wheels on your vehicle to ensure that the replacement tires or wheels allow the TPMS to continue to function properly.

Note: If a tire has been replaced or repaired using a different tire sealant than the one available from Tesla, and a low tire pressure is detected, it is possible that the tire sensor has been damaged. Contact Tesla to have the fault repaired as soon as possible.

FCC and IC Certification

Component	Manufacturer	Model	Operating Frequency (MHz)	FCC ID	IC ID
Pillar Endpoint	Tesla	1509518	13.56 2400-2483.5	2AEIM-1509518	20098-1509518
Center Console	Tesla	1089774	13.56 2400-2483.5	2AEIM-1089774	20098-1089774
Fascia Endpoint	Tesla	1509516	2400-2483.5	2AEIM-1509516	20098-1509516
Key fob	Tesla	1133148	2400-2483.5	2AEIM-1133148	20098-1133148
TPMS	Tesla	1472547G	2400-2483.5	2AEIM-1849171	20098- 1849171
Radar	Continental	ARS 4-B	76000-77000	OAYARS4B	4135A-ARS4B
Homelink	Gentex	ADHL5C	286-440MHz	NZLADHL5C	4112A-ADHL5C
CarPC	Tesla	1506277	—	YZP-RBHP- B216C RI7LE940B6N A	RBHP-B216C 5131A- LE940B6NA

The devices listed above comply with Part 15 of the FCC rules and Industry Canada's license- exempt RSS Standard(s) and EU Directive 2014/53/EU.

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.

Changes or modifications not expressly approved by Tesla could void your authority to operate the equipment.

Radio Frequency Information

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, try to correct the interference by one or more 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 to help.

Note: FCC Radiation exposure: All equipment complies with FCC and IC RSS-102 radiation exposure limits for an uncontrolled environment and the radio device and antennas operating at more than 20cm distance from user.
Caution: This equipment and its antennas must not be co-located or operated with another antenna or transmitter.
Canada
CAN ICES-3 (B)/NMB-3(B)

Documents / Resources

	Tesla Inc 1509518 TPMS Tire Pressure Monitoring System [pdf] User Manual 2AEIM-1849171, 2AEIM1849171, 1849171, 1509518 TPMS Tire Pressure Monitoring System, TPMS Tire Pressure Monitoring System, Pressure Monitoring System, Monitoring System

References

- User Manual