

February 8, 2008

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Re: Certification for Honda MY09 TPM Highline Receiver
Model #: 218143-119, 218143-120
FCC ID: GQ4-40R
Canada IC: 1470A-12R

GENERAL DESCRIPTION

The TPM receiver is used to demodulate and decode information transmitted from the wheel-mounted sensors. This information is then sent to a display unit. The receiver communicates tire status to the vehicle via a high speed CAN bus. The receiver shall be able to do diagnostics on the system to determine if the system needs to be serviced.

When the ignition is in the run position, the receiver will activate the initiators to put the wheel-mounted sensors in normal operating mode, and start monitoring for RF data from the sensors. The time it takes the receiver to complete this operation is approximately 16 seconds. The receiver will also activate the initiators to request data from the sensors, if the receiver does not receive information from the sensors for more than 5 minutes.

When the ignition is in the off position, the receiver will activate the initiators to put the wheel-mounted sensors in shut-down mode. The receiver will then turn itself off. This operation takes approximately 30 seconds.

The initiator is part of the system used to detect the tire pressure sensors of the tires in a vehicle. Four initiators are used in each vehicle, one for each tire. They are located in or near the wheel well and are connected by wire harness to the central receiver. This central receiver sends a 125KHz waveform over the wire harness to the initiator where it is converted to a magnetic field that is broadcast to a sensor in the tire.