
Information and Entertainment System - System Operation and Component Description

System Operation

Ford Telematics

The telematics module receives vehicle information from various vehicle modules on the HS-CAN. The telematics module may collect, format, or calculate vehicle information such as:

- Airbag indicator status
- Battery voltage
- Diagnostic Trouble Codes (DTCs)
- Driver seatbelt status
- Diesel Exhaust Fluid (DEF) status (diesel only)
- DPF status (diesel only)
- Engine coolant temperature
- Engine speed
- Fuel level
- Fuel used
- Harsh acceleration occurrences
- Harsh braking occurrences
- Idle time
- MIL status
- Odometer reading
- Oil life status
- Throttle position
- TPMS status
- Vehicle location
- Vehicle speed

With the ignition in ON/RUN, the telematics module packages and transmits a message using its internal cellular antenna-modem, approximately every 2 minutes, except for special instances which are

transmitted per occurrence, such as harsh braking, speeding or an airbag warning indicator. With the ignition in OFF, the telematics module transmits a message approximately every 12 hours to indicate the vehicle location and that contact is being maintained between the telematics module and the server.

The telematics module receives GPS information using the internal GPS satellite receiver. The GPS coordinates are packaged with collected vehicle information in order to associate a vehicle location with the collected vehicle information.

In addition to transmitting information, the telematics module receives over-the-air configuration and firmware updates through the cellular network. The configuration and firmware updates are managed by the telematics service provider.

Component Description

Telematics Kit

NOTE: *The Ford Telematics kit includes a telematics module and a telematics module harness. The individual components are not repairable. Always replace as an assembly.*

The telematics module contains both an internal cellular antenna-modem and a GPS satellite receiver/antenna.

The telematics module does not respond to a diagnostic scan tool.

The telematics module and telematics module harness are present only on vehicles equipped with Ford Telematics. The telematics module harness connects the telematics module to the vehicle HS-CAN.