



Super Duty Ford Telematics Bill of Material:

Part Description	Quantity
Ford Telematics Module	1
Ford Telematics Harness	1
Ford Telematics Installation part set	1
Warranty Card	1

Ford Telematics Installation part set content:	Quantity	P/N
Adhesive backed mounting pad	1	SJ3507
3M 4298 Promoter Packet	1	70-0706-9872-8
Tie Straps	5	10"

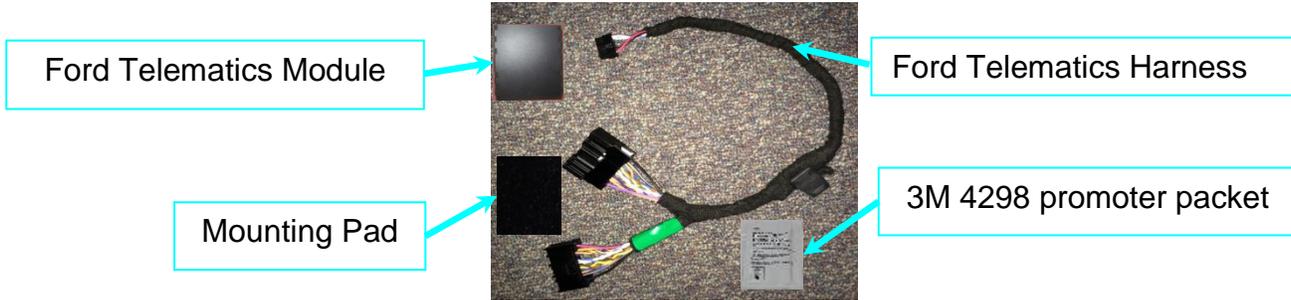
Tools: shop tools	Panel removal tool
Plastic glove (optional)	

Record of Revision History:

Revision	Description	Pages Affected	Release Date
1	Release of next gen Ford Telematics kit to support Super Duty MY 17+ vehicles.	All	25-Oct-2017



Ford Telematics – Content



Ford Telematics – Installation Procedure – Pre-install list

- Read the installation procedure thoroughly before proceeding.
- Run standard vehicle diagnostics to check if any codes are set before the Ford Telematics installation. Repair vehicle if necessary before proceeding.
- Refer to Ford Workshop Manual Instructions for vehicle disassemble and reassemble instructions. All torque values are 1.5Nm+/-0.2Nm unless otherwise specified in workshop manual or in these instructions.
- Set all fasteners a side for reassembly.
- Ensure the ignition switch is off, engine is off, and all accessories are off – remove key from ignition and set aside.

1. Vehicle Disassembly

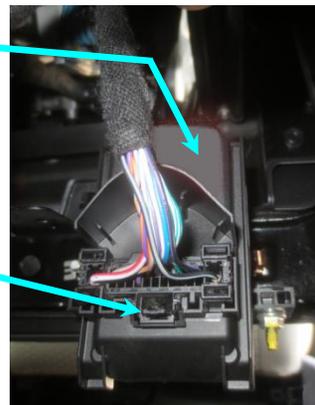
1.1 Remove the Vent trim panel to access the Ford Telematics module mounting position and the harness routing.

- Open the driver door to access the vent trim panel.
- Use a panel removal tool to release trim panel, set panel aside.
- You may need to carefully pull the weather strip in this area to remove the vent trim panel.
- Take care not to break off the vent trim panel tab.
- Remove screw below HVAC duct to access the top surface of the duct, set screw aside.



1.2 Disconnect the vehicle harness data link connector from the Smart Data Link module for the harness installation (Ignition must be off including all accessories off.)

- The Smart Data Link module is located slightly to the left and below the steering wheel.
- The module is attached to the knee panel bracket in the driver knee zone.
 - Disconnect connector

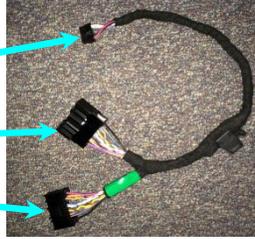




2. Ford Telematics Harness Routing and Connections

Ford Telematics Harness:

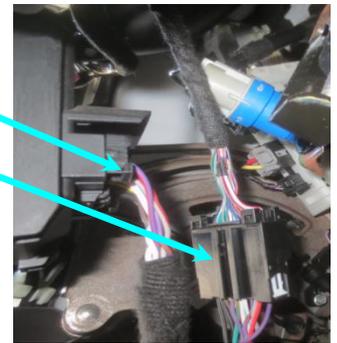
- Ford Telematics Module Connector
- Data Link Port Connectors
 - DLC Male connector
 - DLC Female connector



2.1 The Ford Telematics harness is installed in the driver side foot well from the Smart Data Link module up to the left side of the HVAC duct.

2.1.1 Install the Ford Telematics harness.

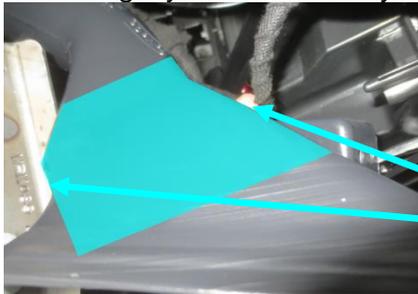
- Connect the Ford Telematics DLC female connector to the Smart Data Link module.
- Connect the Ford Telematics DLC male connector to the vehicle connector disconnected from Data Link module earlier.
- Route the Ford Telematics harness module connector up through the IP to the trim panel opening and above the duct mounting location.
 - Connect the harness module connector to the module.



3. Vehicle Preparation

3.1 Inspect the Ford Telematics Module's mounting location surface.

3.1.1 The Ford Telematics module's mounting location is on the top surface of the duct, position the duct slightly down to visually inspect the surface to ensure it is free of any contaminants.



The top surface of the duct should be clean and dry, if necessary clean the surface with the isopropyl alcohol wipe provided before applying the 3M promoter.

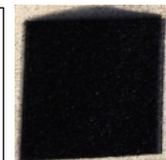
- Wipe clean the area highlighted in picture, along the flat surface and over the edge on each side of the duct.

3.2 Promoter application instructions

The Ford Telematics kit contains a 3M 4298 promoter packet and an adhesive backed mounting pad for mounting the Ford Telematics module. (Please follow the 3M application instructions included in the next step to prepare the mounting surface for the pad's adhesive backing.)



3M 4298 packet contains an applicator sponge soaking in promoter liquid - the liquid contents of the packet should be used as soon as possible after opening.



3.2.1 3M 4298 Application instructions - Hold the packet upright and avoid squeezing the packet. The packet can be opened by tearing across the packet at the notches. This will expose the sponge applicator. Do not remove the sponge or squeeze a freshly opened packet to prevent spillage. Handling the bottom section of the packet should enable application of 3M adhesion promoter 4298 with no mess. Apply a thin, uniform coating to the bonding surface, using the minimum amount that will fully coat the surface. A wet coating thickness of 0.002 inch or less is



recommended. Apply promoter to the areas that will be covered with adhesive side of mounting pad. Although drying times may vary due to temperature and/or humidity, a drying time of 30 to 90 seconds is typically indicative of this thickness. The promoter should be dry before applying pad. Reference: 3M. "Adhesion Promoter 4298 for Professional Market Applications." 3M Multimedia, March-2003. Web. 22-July-2014

http://multimedia.3m.com/mws/mediawebserver?mwsld=SSSSSufSevTsZxtUNY_G5xfSevUgevTSevTSevTSeSSSSSS--

3.3 Application of promoter to the mounting surface on the HVAC duct.

3.3.1 Apply a thin coating of promoter to prepped surface highlighted in the previous vehicle preparation section.

3.4 Application of the mounting pad on the prepared surface.

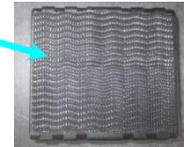
Note: the promoter must be dry before applying the mounting pad: dry time is 30 to 90 seconds after promoter application and not more than one hour late. Make sure the primed surface remains free from contaminants prior to pad application.

- Remove the clear plastic from the adhesive backing on pad, apply the pad to the prepped surface, aligning pad corner to left side of the duct, wrapping it over the right side of duct; use picture to the right to properly align pad: firmly rub pad, removing any air bubbles trapped under it to ensure good adhesion to the duct.



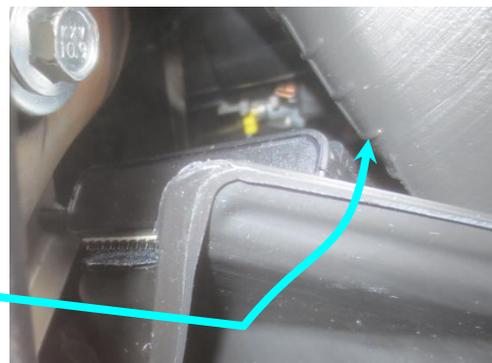
4. Ford Telematics Module Installation

The Ford Telematics module has dual lock attached to the bottom of the module; the dual lock side attaches to the mounting pad; maintain separation between dual lock on module and mounting pad until module is in its final position.



4.1 Mount the Ford Telematics Module on the duct.

- Position the Ford Telematics module above the mounting pad with the harness routed towards the right, use picture to locate the module properly.
 - The module's location is critical; with the module held above the pad, reposition the duct onto the locator pin while adjusting the module's location to ensure clearance with the parts above it.
- Fasten the module to the mounting pad.
 - Lower the duct, firmly press and wiggle module down into pad.





5. Ford Telematics Validation Process

- Successful validation of the Ford Telematics is dependent on both GPS and cellular network signal strength. The vehicle may need to be relocated with sky-view for better reception, i.e., outside.
- 5.1 Insert the key into the ignition.
 - 5.2 Start the engine.
 - Turn the ignition on,
 - Start the engine,
 - Run engine for 30 seconds, and
 - Turn the ignition to "Off".
 - 5.3 Repeat STEP 5.2 once more.
 - 5.4 Open the "Installation QA Lookup" site at <http://toolbox.telogis.com/otr/vinlookup.php> or telogis.com/vin to access the following "Find Tracking Unit:" screen:

Telogis Installation QA Lookup
Current Time: 19:00:16 UTC

US Toll Free: Telogis Ford Plant Support: (866) 544-6633
Direct: Ford Plant Support (512) 982-1865

Find Tracking Unit:

Tracking Unit VIN: Find Unit >>

Tracking Unit Serial Number: Find Unit >>

Tracking Unit ESN: Find Unit >>

Tracking Unit SIM: Find Unit >>

Enter complete VIN and click on "Find Unit >>".

Installation/Validation Instructions
Select vehicle/part...

2014 - Telogis. For internal partners use only.

- Wait 10 seconds after the engine is shutoff.
- Enter the complete VIN number (all 17 characters) of the vehicle you are trying to validate in the box titled "Tracking Unit VIN:"
- Click the "Find Unit>>" button next to the "Tracking Unit VIN:" box.

NOTE...VERY IMPORTANT...Always search by VIN on the website within 15 minutes of the last Engine Start. Otherwise the indicators will not be GREEN because their time-date stamps are too old or stale (more than 15 minutes old.)

- 5.5 The Ford Telematics installation and validation is successful when the site return screen displays the following criteria:
 - Both a "GREEN" Indicator and the date with time stamp in the box immediately to the right of each of the following items: VIN, "Last Contact", "Last GPS Fix", and "Last CAN Data".
 - VIN number you searched for must be displayed in the "VIN" line box to the right of the date/timestamp box.

Note: The remaining boxes on the return screen may have populated values; however these values are not relevant for a successful validation.



Telogis Installation QA Lookup
US Toll Free: Telogis Ford Plant Support (866) 544-6633
Current Time: 19:05:16 UTC

Ford Telematics Unit:

IMEI: 173409260 Config: []
Main FW Version: DA6-e4
LIB/OBD FW Version: []

VIN: []

Last Contact: []
Last GPS Fix: []
Last CAN data: []

Find Another Refresh

Page executed 38 seconds ago

Key:
[Green Circle] Communication received within the last 15 minutes
[Red Circle] Communication older than 15 minutes

** All times listed in UTC

Installation/Validation Instructions
Select vehicle/part...

2014 - Telogis. For internal partners use only.

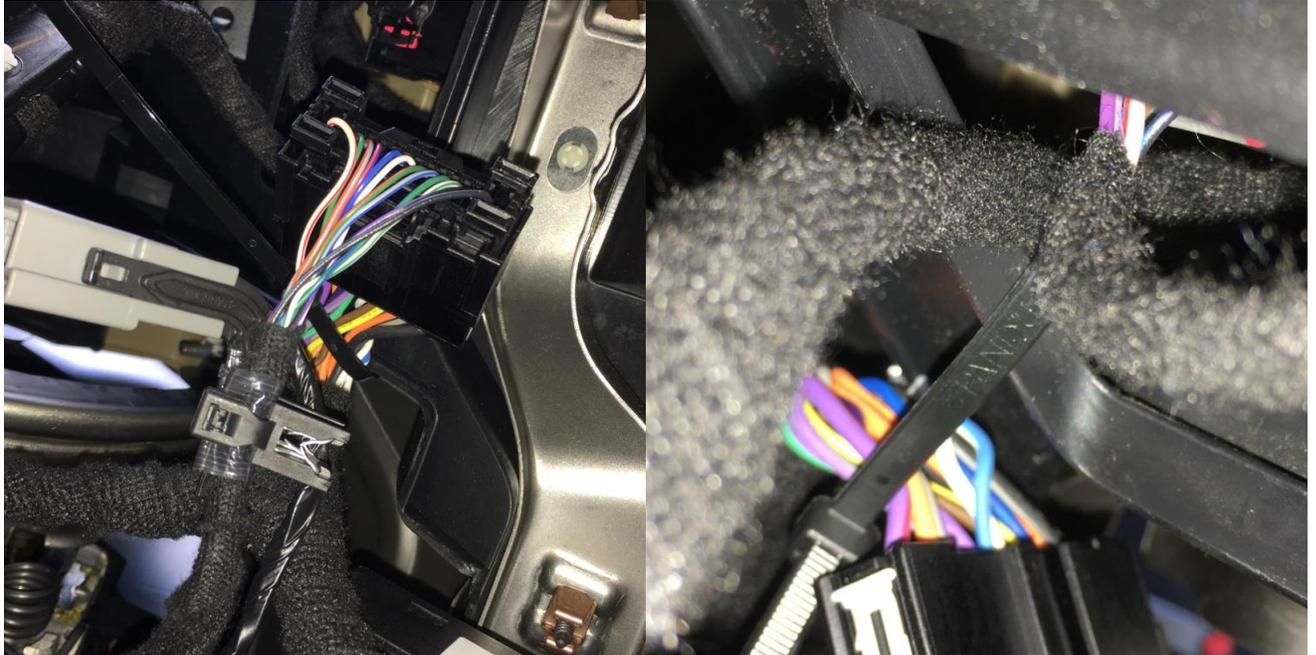
- 5.6 The install validation is successful if the "Installation QA Lookup" site's return screen displays the criteria defined in previous step, proceed to STEP 5.11; otherwise the validation failed continue to STEP 5.7.
- 5.7 If the screen returns "Your search for vin"...returned no results" or the return screen did not display the criteria for a valid install wait 30 seconds and re-enter the same VIN (click "Find Another" button to return to first screen if needed.)
 - If the return screen is as defined in STEP 5.5, proceed to STEP 5.11; otherwise continue to STEP 5.8.
- 5.8 Verify that all the electrical connector connections are fully inserted and secure.
- 5.9 Repeat STEPS 5.2 to 5.4, searching by VIN on the "Find Tracking Unit" screen (STEP 5.4.)
- 5.10 If the installation validates with a returned screen defined in STEP 5.5 proceed to STEP 5.11, otherwise remove the Ford Telematics hardware and install a new Ford Telematics kit (module and harness) and return to STEP 5.1.
- 5.11 Run standard vehicle diagnostics to check if any codes were set during the Ford Telematics installation. If there are no codes, proceed to next section, if there are codes, clear and retest. If codes remain after retest, make the required vehicle repairs, clear codes, and retest. Repeat until retest produces no codes.



6. Installation Review, Vehicle Reassembly, and Completion

6.1 Verify that the Ford Telematics harness is clear of all moving components and the foot zone.

6.1.1 Loop any excess Ford Telematics harness onto itself and secure with the tie straps provided in the kit to a hard point on the IP not to other harnesses.



6.2 Verify that the Ford Telematics module is firmly mounted on the duct.

6.2.1 Reposition duct onto the pin and secure it with the screw.

6.3 Re-install the duct trim panel and the weather stripping if removed during the vehicle disassembly.

6.4 Place Ford Telematics Warranty Card into Glove Box.