

SECTION 303-14: Electronic Engine Controls
REMOVAL AND INSTALLATION

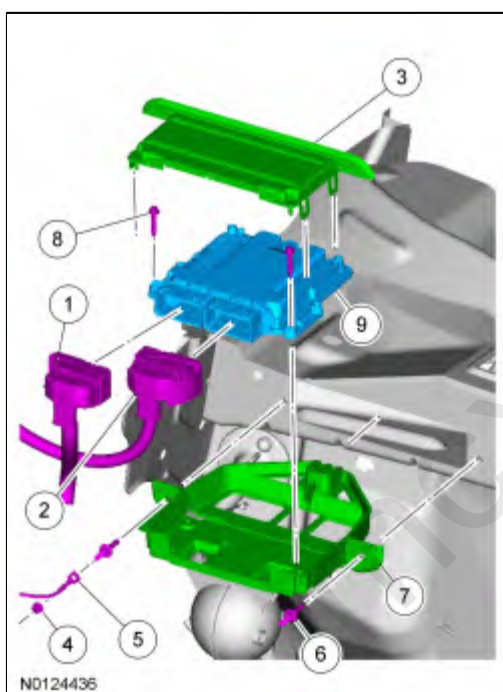
2014 F-150 Workshop Manual
Procedure revision date: 10/25/2013

Powertrain Control Module (PCM)

Special Tool(s)

 ST2834-A	Vehicle Communication Module (VCM) and Integrated Diagnostic System (IDS) software with appropriate hardware, or equivalent scan tool
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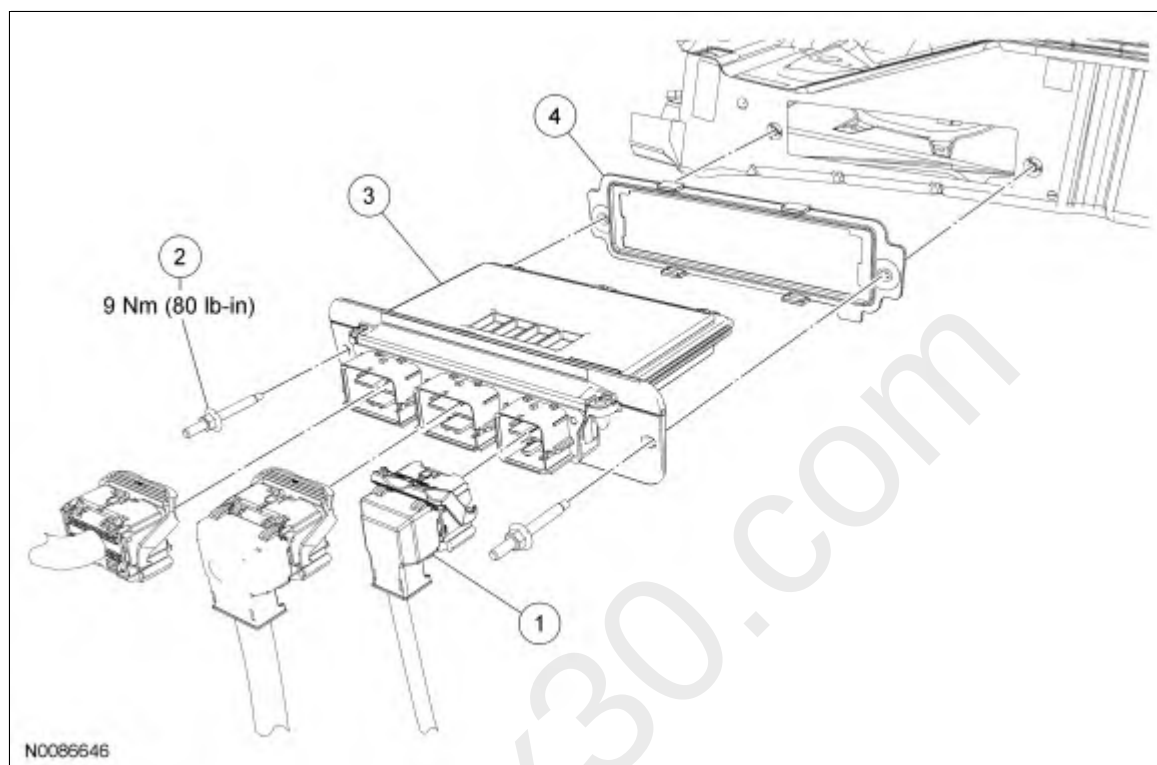
3.5L Gasoline Turbocharged Direct Injection (GTDI) Powertrain Control Module (PCM)



Item	Part Number	Description
1	—	Powertrain Control Module (PCM) electrical connector (part of 14A464)
2	—	<u>PCM</u> electrical connector (part of 12A581)
3	—	<u>PCM</u> cover (part of 12A692)
4	W705790	Ground cable nut - 9 Nm (80 lb-in)
5	—	Ground cable (part of 12A581)
6	W711897	<u>PCM</u> stud bolt (2 required) - 9 Nm (80 lb-in)
7	12A692	<u>PCM</u> support bracket
8	N605894	<u>PCM</u> -to- <u>PCM</u> support bracket bolt - 9 Nm (80 lb-in)

		(2 required)
9	12B684	<u>PCM</u>

3.7L, 5.0L (4V) and 6.2L (2V) Powertrain Control Module (PCM)



Item	Part Number	Description
1	—	Powertrain Control Module (PCM) electrical connectors (part of 14A464 and 12A581)
2	W711897	<u>PCM</u> stud bolt (2 required)
3	12A650	<u>PCM</u>
4	12A696	<u>PCM</u> gasket

Removal

All engines

1. Retrieve the module configuration. Carry out the module configuration retrieval steps of the Programmable Module Installation (PMI) procedure. For additional information, refer to [Section 418-01](#).

Vehicles equipped with a 3.5L Gasoline Turbocharged Direct Injection (GTDI) engine

2. Disconnect the 2 Powertrain Control Module (PCM) electrical connectors.
3. Disengage and remove the PCM cover.

4. Remove the 2 PCM -to- PCM support bracket bolts and the PCM.
5. If the PCM support bracket is damaged, remove the nut and position the ground cable aside and remove the 2 PCM stud bolts and slide the PCM support bracket out of the bulkhead.

Vehicles equipped with a 3.7L, 5.0L (4V) or 6.2L (2V) engine

6. Disconnect the Powertrain Control Module (PCM) electrical connectors.
7. Remove the stud bolts, the PCM and the gasket.

Installation

Vehicles equipped with a 3.7L, 5.0L (4V) or 6.2L (2V) engine

1. Install the gasket, the PCM and the 2 stud bolts.
 - Tighten to 9 Nm (80 lb-in).
2. Connect the PCM electrical connectors.

Vehicles equipped with a 3.5L Gasoline Turbocharged Direct Injection (GTDI) engine

3. If the PCM support bracket was removed, position the support bracket assembly into the bulkhead and install the 2 stud bolts.
 - Tighten to 9 Nm (80 lb-in).
4. If the PCM support bracket was removed, position the ground cable and install the nut.
 - Tighten to 9 Nm (80 lb-in).
5. Position the PCM onto the support bracket and install the 2 bolts.
 - Tighten to 9 Nm (80 lb-in).
6. Install the PCM cover.
7. Connect the 2 PCM electrical connectors.

All engines

8. Carry out the transmission solenoid body strategy identification. For additional information, refer to [Section 307-01](#).
9. **NOTE:** If the Programmable Module Installation (PMI) procedure was not successful in downloading the data from the vehicles original PCM, then the oil life data of the vehicle is lost. If this occurs, and the oil life cannot be determined through service history or customer interview, it is recommended the vehicle engine oil and filter be changed and the oil change minder reset.

Restore the module configuration. Carry out the module configuration restore steps of the Programmable Module Installation (PMI) procedure. For additional information, refer to [Section 418-01](#).

10. Perform the Passive Anti-Theft System (PATS) Parameter Reset procedure. For additional information, refer to [Section 419-01B](#).
11. Using the scan tool, perform the Misfire Monitor Neutral Profile Correction procedure, following the

on-screen instructions.

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