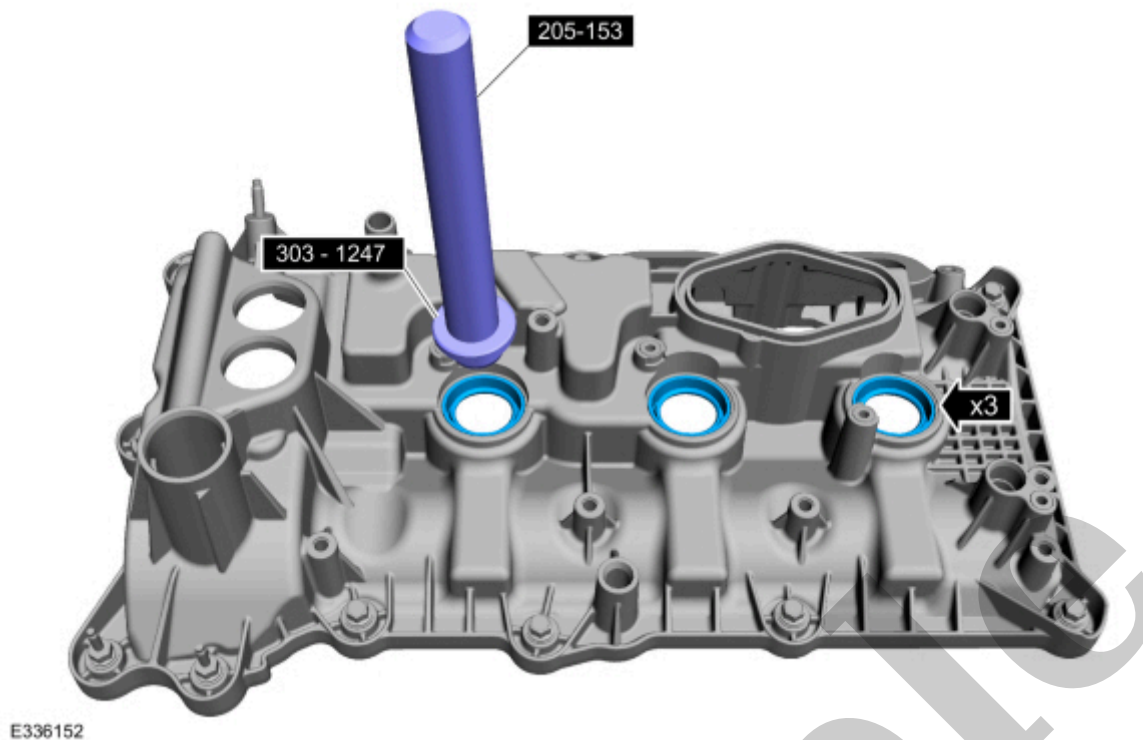


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## 2014 Ford Transit Connect Service and Repair Manual

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## 2. NOTE

Installation of new seals is only required if damaged seals were removed.

If removed, using the special tools, install the VCT (variable camshaft timing) oil control solenoid seals.

**Use Special Service Tool** : 205-142 (T80T-4000-J) Installer, Differential Bearing Cone , 205-153 (T80T-4000-W) Handle

#### 4. NOTE

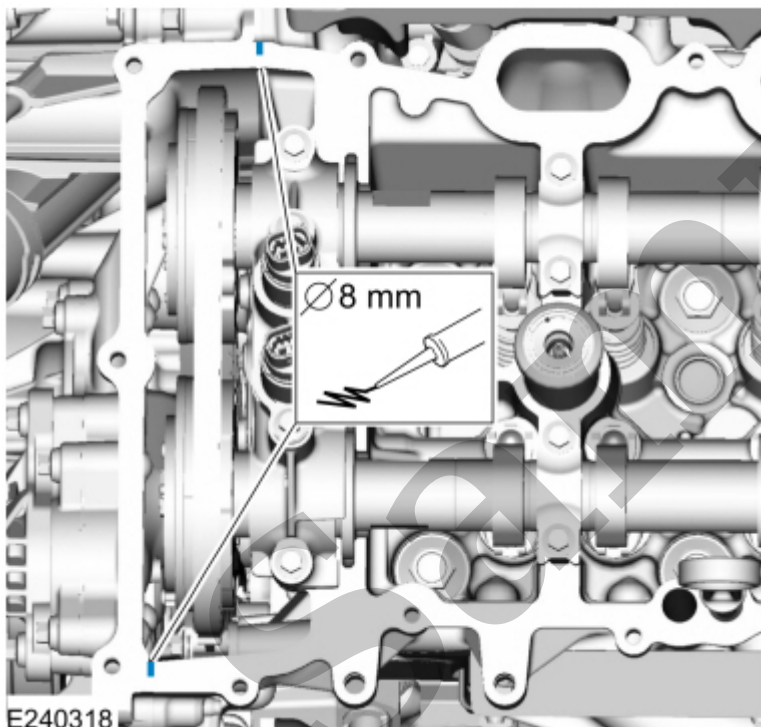
If the valve cover is not installed and the fasteners tightened within 4 minutes, the sealant must be removed and the sealing area cleaned. To clean the sealing area, use silicone gasket remover and metal surface prep. Failure to follow this procedure can cause future oil leakage.

Apply an 8 mm (0.31 in) bead of Motorcraft® High Performance Engine RTV Silicone to the engine front cover-to-cylinder head joints.

**Material** : Motorcraft® Metal Surface Prep Wipes / ZC-31-B

**Material** : Motorcraft® Silicone Gasket Remover / ZC-30-A

**Material** : Motorcraft® High Performance Engine RTV Silicone / TA-357 (WSE-M4G323-A6)



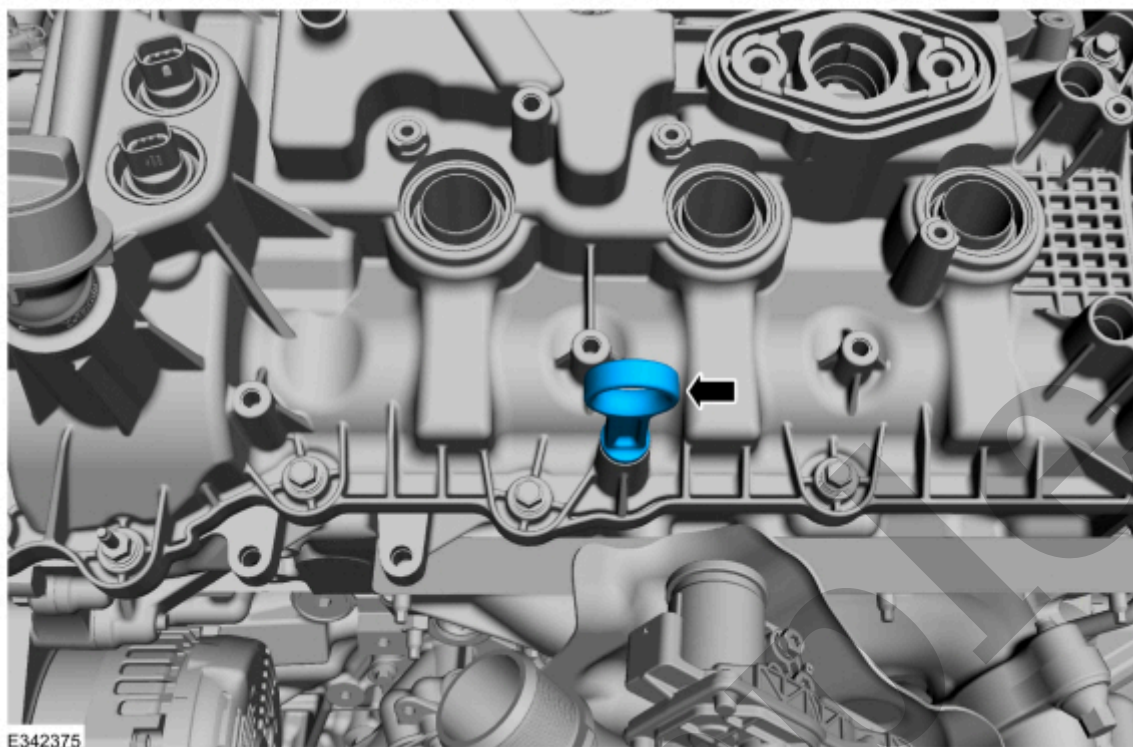
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5. Install the valve cover and tighten the fasteners in the sequence shown.

**Torque** : 89 lb.in (10 Nm)

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7. Install the oil level indicator.



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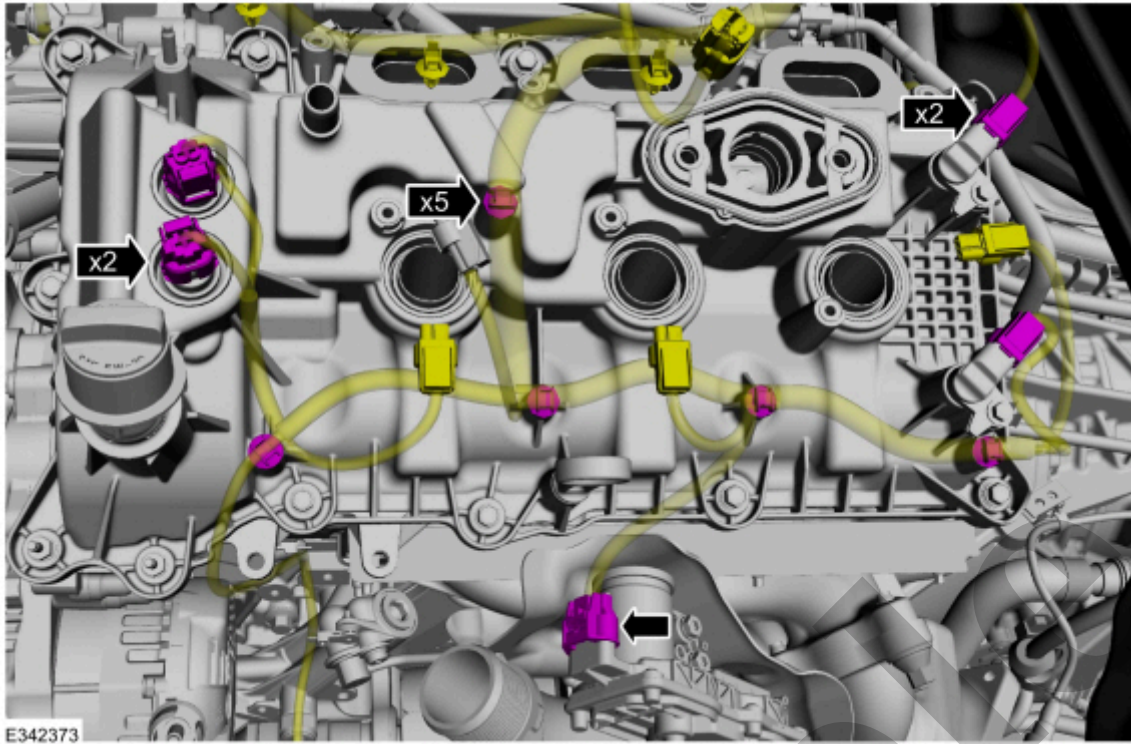
8. **NOTE**

Before installation, lubricate the CMP (camshaft position) sensor O-ring seal with clean engine oil.

Install the CMP (camshaft position) sensors and the bolts.

Refer to: [Specifications](#)(303-01C Engine - 3.5L EcoBoost (BM), Specifications).

**Torque** : 71 lb.in (8 Nm)



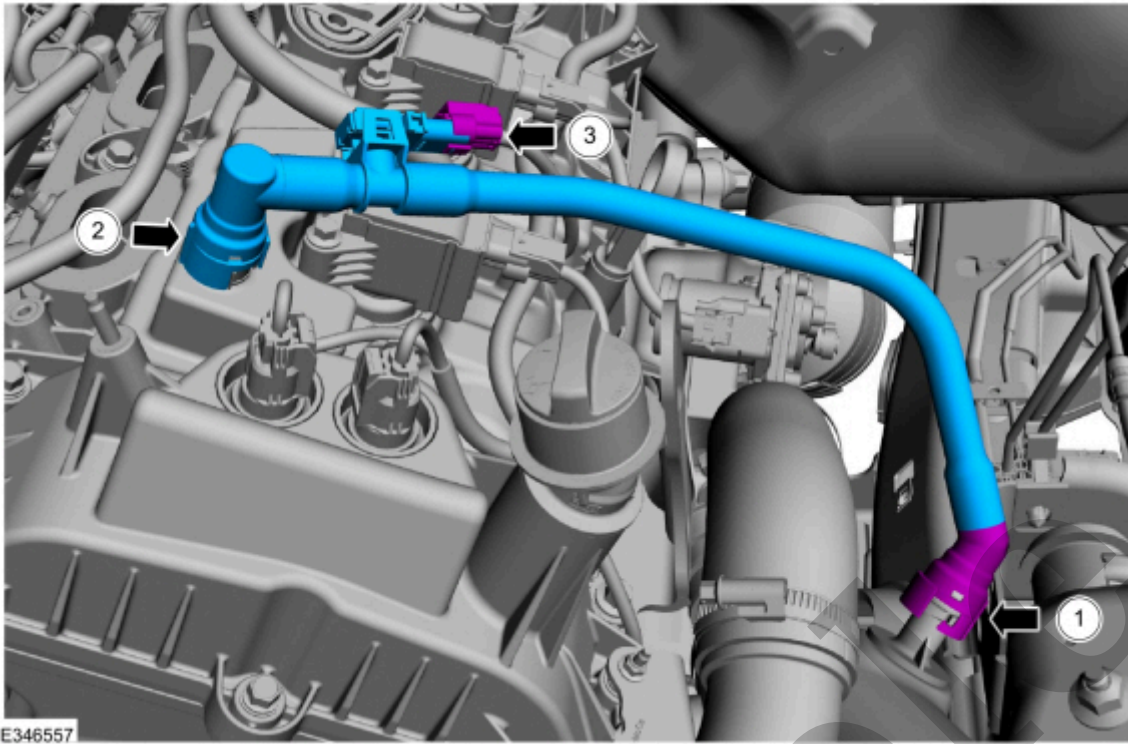
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10. Install the LH (left-hand) ignition coil-on-plugs.

Refer to: [Ignition Coil-On-Plug](#)(303-07C Engine Ignition - 3.5L EcoBoost (BM), Removal and Installation).

11. Install the CAC (charge air cooler) tube bracket and nuts.

***Torque*** : 53 lb.in (6 Nm)



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14. Install the high pressure fuel pump.

Refer to: [High-Pressure Fuel Pump](#)(303-04C Fuel Charging and Controls - 3.5L EcoBoost (BM), Removal and Installation).

15. Install the air cleaner assembly.

Refer to: [Air Cleaner](#)(303-12C Intake Air Distribution and Filtering - 3.5L EcoBoost (BM), Removal and Installation).

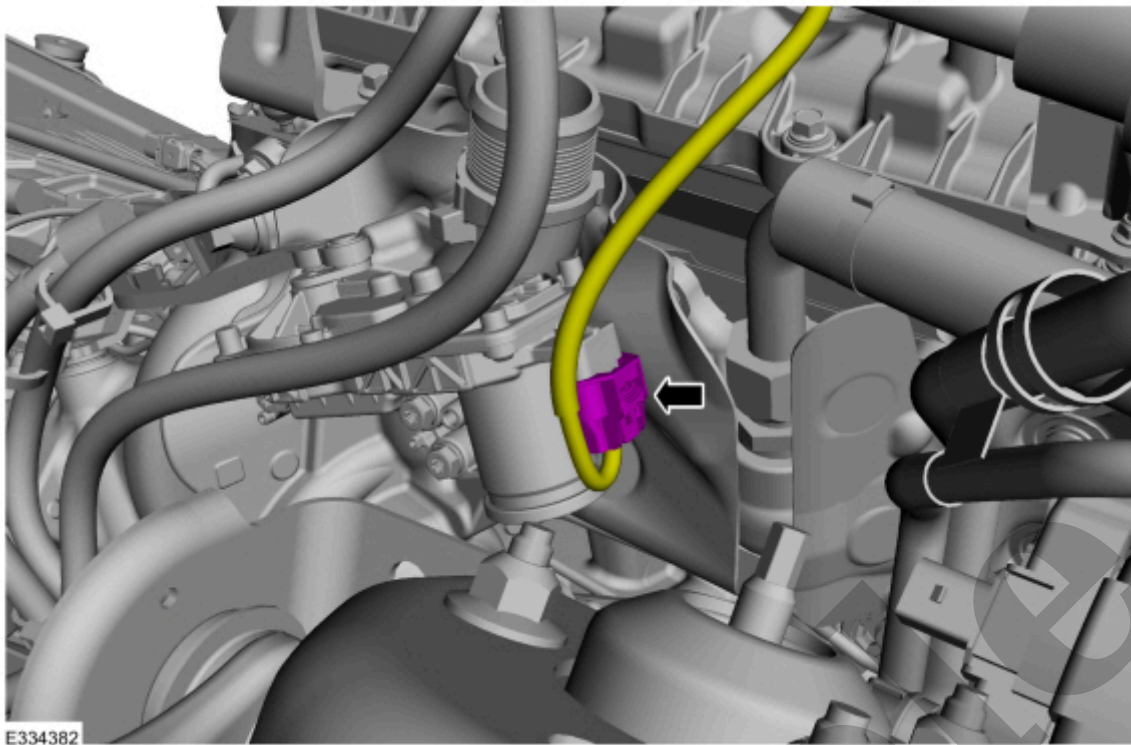
16. Install the intake manifold.

Refer to: [Intake Manifold](#)(303-01C Engine - 3.5L EcoBoost (BM), Removal and Installation).

17. Pressurize the fuel system.

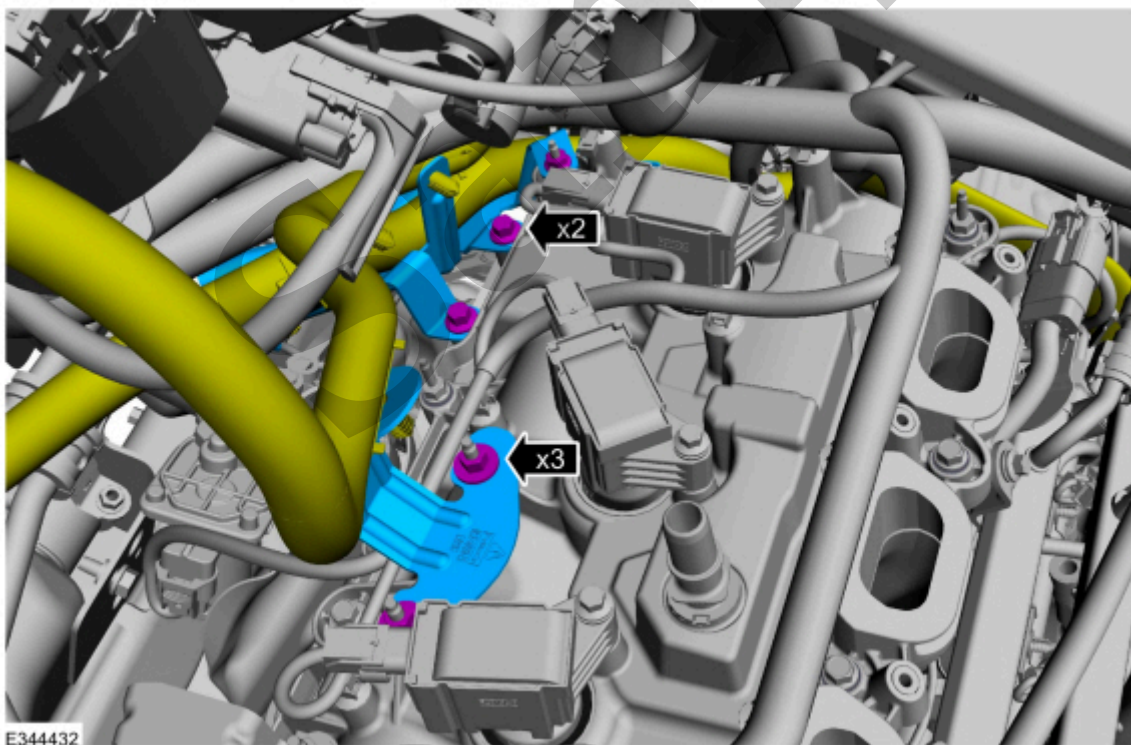
Refer to: Fuel System Pressure Release (310-00) .



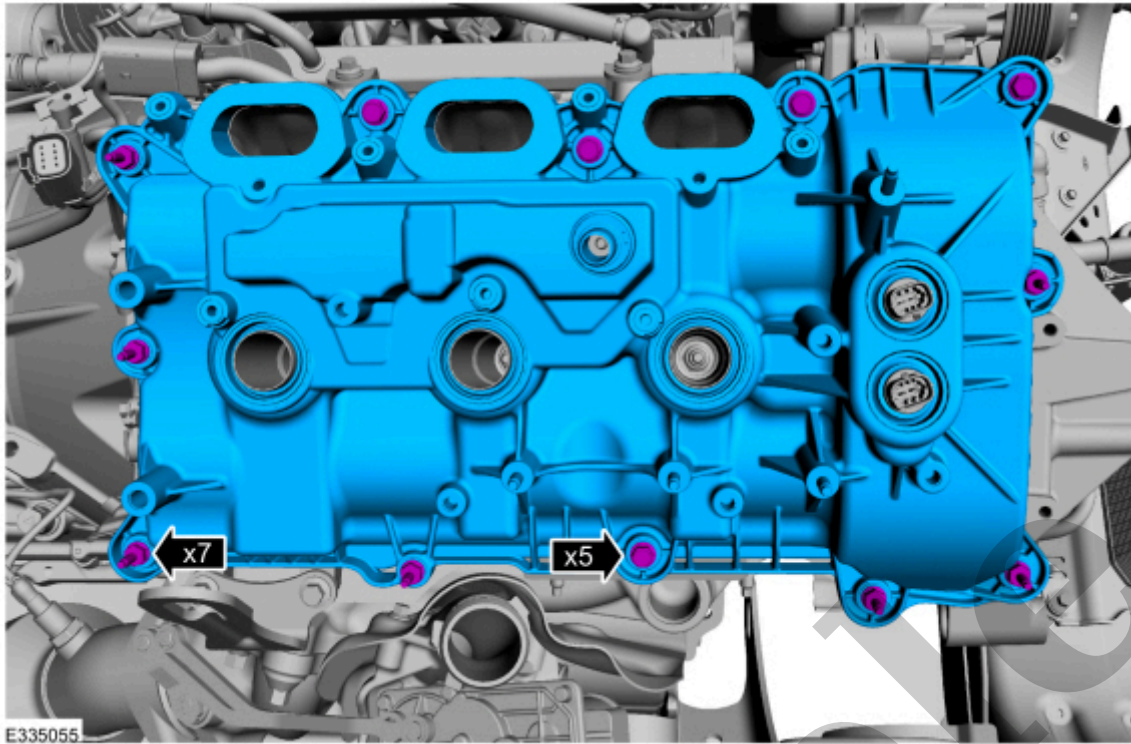


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5. Remove the retainers and position the high voltage wire harness and brackets from the engine.

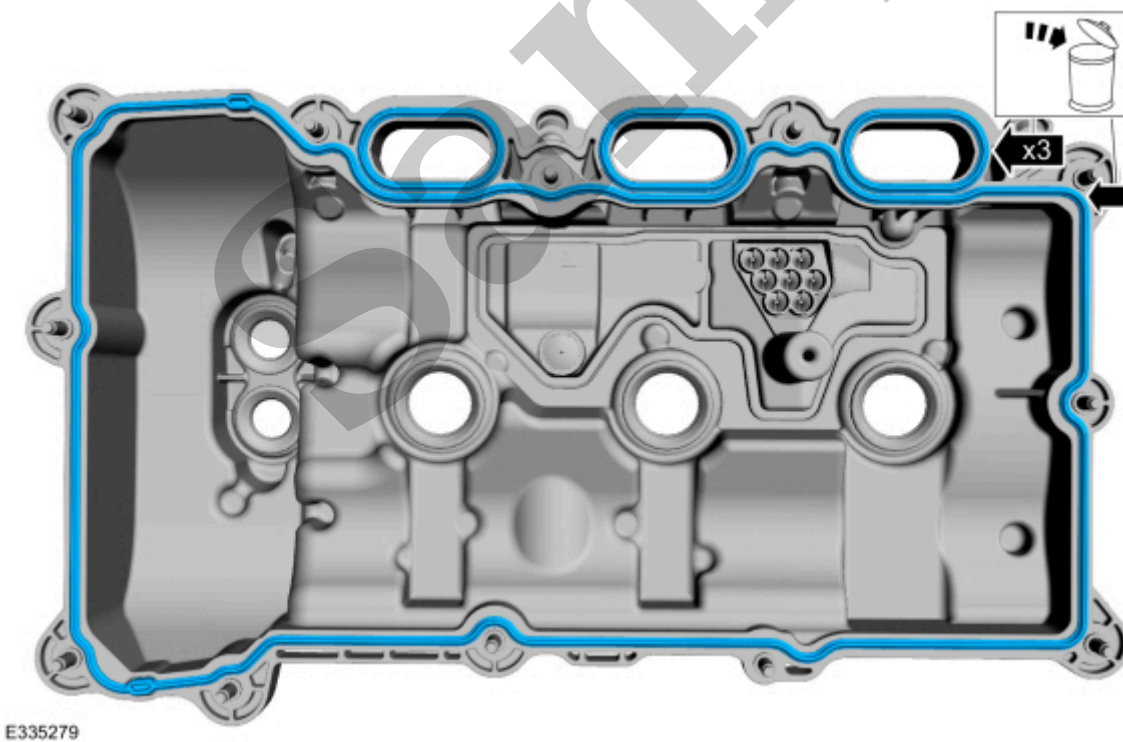


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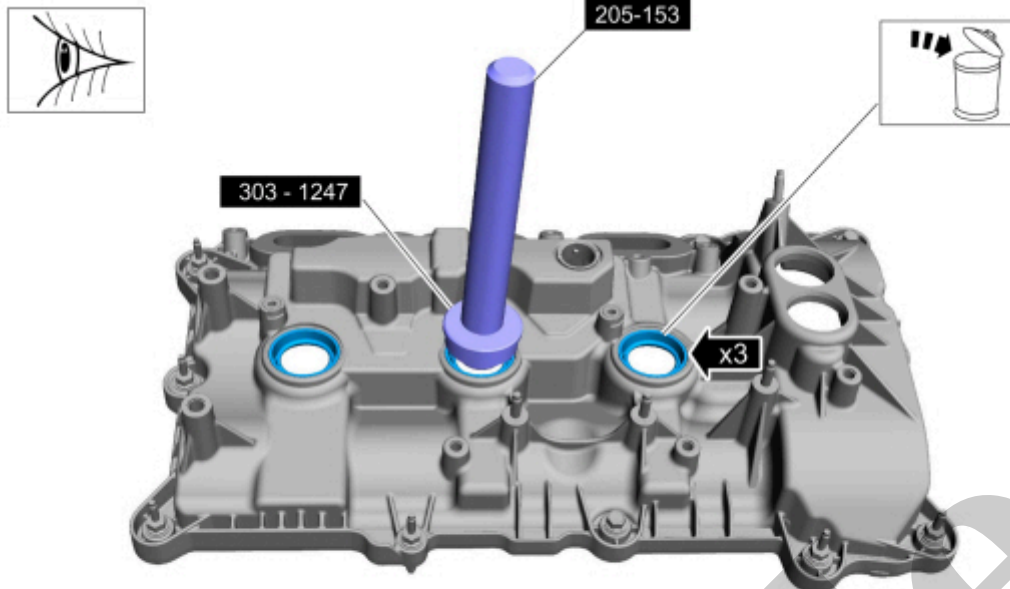
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8. Remove and discard the valve cover and intake port gaskets.



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11. Clean the valve cover, cylinder head and engine front cover sealing surfaces with metal surface prep.

**Material** : Motorcraft® Metal Surface Prep Wipes / ZC-31-B

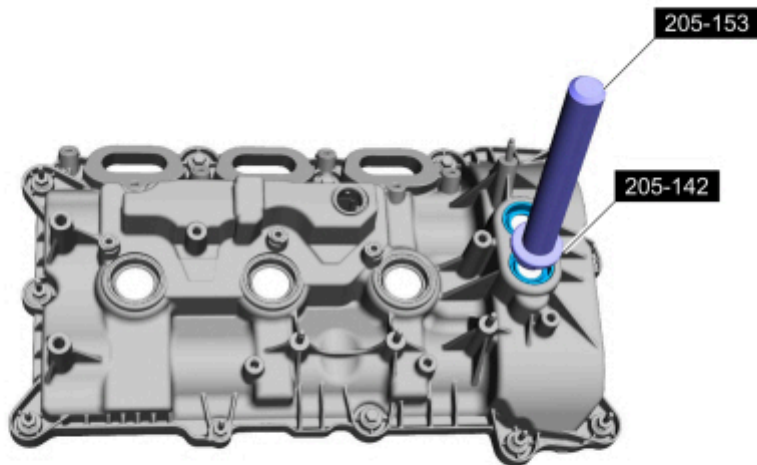
## Installation

### 1. NOTE

Installation of new seals is only required if damaged seals were removed.

If removed, using the special tools, install the spark plug tube seals.

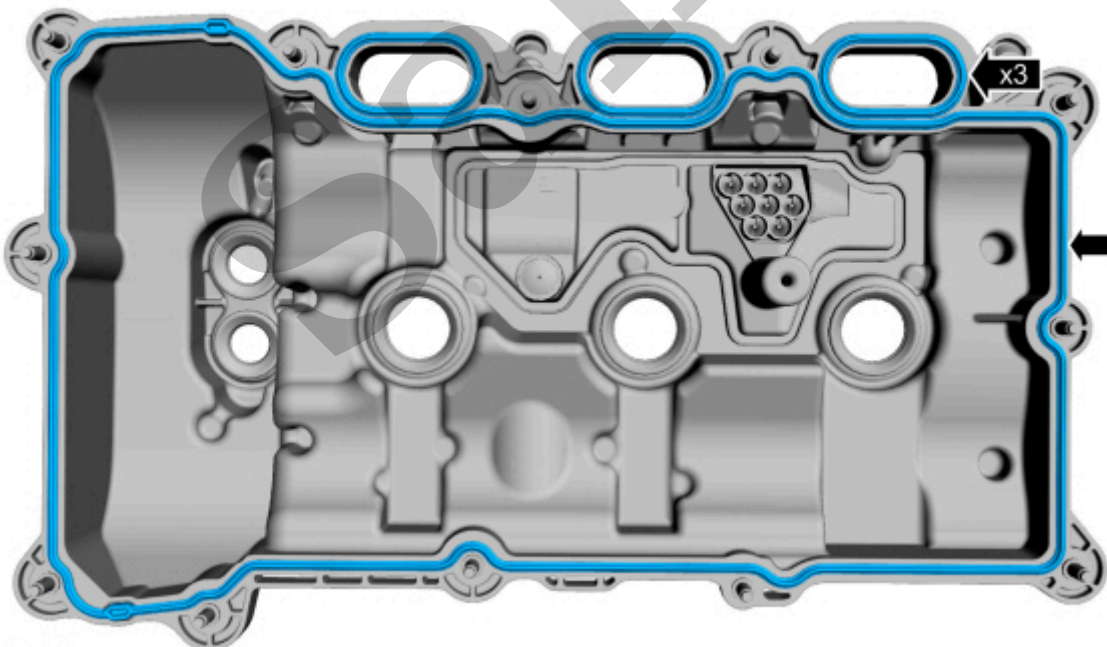
**Use Special Service Tool** : 303-1247 VCT Spark Plug Tube Seal Remover and Installer , 205-153 (T80T-4000-W) Handle



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3. Install the new valve cover and intake port gaskets.



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