

Exhaust Manifold Cleaning and Inspection

Special Tool(s) / General Equipment

Feeler Gauge

Cleaning

1. Clean the exhaust manifold using a suitable solvent. Use a plastic scraping tool to clean the gasket sealing surfaces.

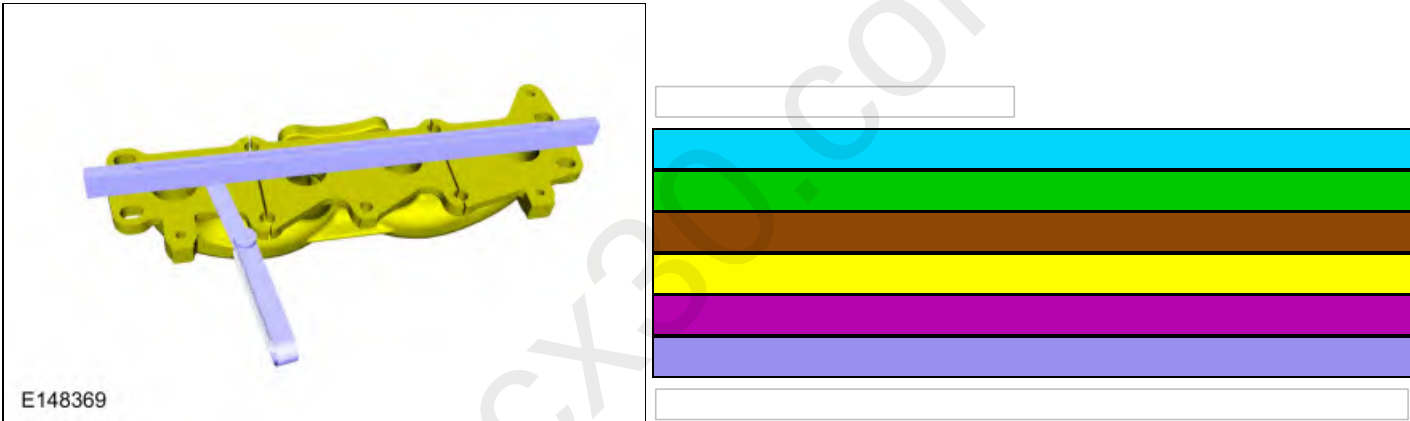
Inspection

1. **NOTE:** New exhaust manifold gaskets, studs, nuts and/or bolts must be installed when an exhaust manifold is serviced.

NOTE: Use a Straightedge that is calibrated by the manufacturer to be flat within 0.005 mm (0.0002 in) per running foot of length, such as Snap-On® GA438A or equivalent. For example, if the Straightedge is 61 cm (24 in) long, the machined edge must be flat within 0.010 mm (0.0004 in) from end to end.

Using the Straightedge and a Feeler Gauge Set, check the exhaust manifold sealing surface for warpage. If the warpage is greater than 0.76 mm (0.0299 in), install a new exhaust manifold.

Use the General Equipment: Feeler Gauge



Piston Diameter

Check

1.
 - Measure the piston diameter 90 degrees from the piston pin and piston diameter (DN) height down from the top of the piston at the point indicated.
 - Refer to specifications for the piston diameter (DN) height.
Refer to: Specifications (303-01A Engine - 2.3L EcoBoost (201kW/273PS), Specifications).
Refer to: Specifications (303-01B Engine - 3.0L EcoBoost, Specifications).
Refer to: Specifications (303-01C Engine - 3.3L Duratec-V6, Specifications).
Refer to: Specifications (303-01D Engine - 3.3L Duratec-V6 “Hybrid (BP), Specifications).

