

SOLUTIONS

Head Bolts and Fasteners

ISSUE:

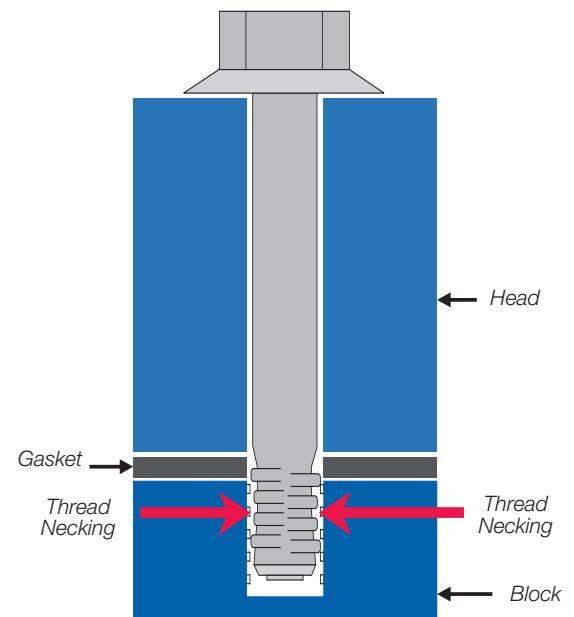
Head bolts are elastic. Tightened and under load in the engine they are stretched. When the load is released or when the bolt is backed off, the head bolt returns to its approximate original length. All bolts or threaded fasteners have a yield point. When the yield point is reached during the tightening process, the bolt loses some of its elasticity and does not return to its original length when the load is released. It's quite common for engine manufacturers to tighten bolts to the yield point. Torque-to-yield fasteners are found on domestic and import light-duty and heavy-duty engines. Because the bolts may lose their strength and are pushed to their yield point after thousands of engine operating cycles, original-equipment manufacturers (OEMs) recommend the bolts be replaced any time they are removed.

RESOLUTION:

MAHLE Original offers replacement bolts and fasteners for both light-duty and heavy-duty engines. Bolts are supplied in sets and each set is enough for one cylinder head. Our bolts and fasteners meet or exceed the OEM specifications. Tightening instructions are included in each package.

APPLICATION:

MAHLE Original head bolts and fasteners are available in more than 80 part numbers.



Typical Bolt Failure