

3 liter duratec engine head bolt tension

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3 Liter Duratec Engine Head Bolt Tension: Frequently Asked Questions

1. What is the specified head bolt tension for the 3 liter Duratec engine?

The specified head bolt tension for the 3 liter Duratec engine is 65 ft-lbs (90 Nm). This tension ensures a proper seal between the cylinder head and the engine block.

2. What is the proper sequence for tightening head bolts?

The correct tightening sequence for head bolts is crucial to prevent warping or damage to the cylinder head. For the 3 liter Duratec engine, the bolt tightening sequence is as follows:

- Step 1: Hand-tighten all bolts to the point of contact with the engine block.
- Step 2: Using a torque wrench, tighten the bolts in three stages:
 - 22 ft-lbs (30 Nm)
 - 44 ft-lbs (60 Nm)
 - 65 ft-lbs (90 Nm)

3. What are the consequences of incorrect head bolt tension?

Incorrect or insufficient head bolt tension can lead to a number of problems, including:

- Head gasket failure
- Engine coolant or oil leakage
- Cylinder head warpage

- Reduced engine compression

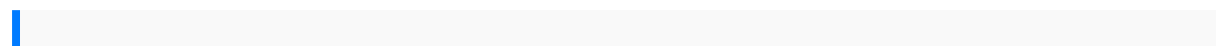
4. How do I check head bolt tension?

To check head bolt tension, you will need a torque wrench and a set of head bolt stretch gauges.

- Step 1: Measure the unstretched length of the head bolts using the stretch gauges.
- Step 2: Tighten the head bolts to the specified torque using a torque wrench.
- Step 3: Remeasure the length of the head bolts using the stretch gauges.
- Step 4: Compare the measured stretch to the specified amount for the engine. If the stretch is outside the specified range, the head bolt tension is incorrect.

5. What should I do if the head bolt tension is incorrect?

If you find that the head bolt tension is incorrect, it is important to address the issue immediately to prevent further damage. This may involve loosening the head bolts and re-tightening them to the correct tension, or replacing the head bolts or cylinder head if necessary.



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