

Enginetech Inc
Tech Assistance 800-410-3664 ext. 340 or 237

TECHNICAL BULLETIN	
	October 2002 TB 2016
Mfg:	FORD
Model:	MUSTANG
Liter:	4.6L
V I N:	W, X
Year:	91-09

Cylinder Head Bolt Installation Procedure For
1991-2001 Ford 4.6L VIN W, X, V & 6 Engines

The AERA Technical Committee offers the following information regarding cylinder head bolt installation procedures for 1991-2001 Ford 4.6L VIN W, X & 6 engines. These procedures vary slightly depending upon the year and usage of the engine. The use of new head bolts is also required to achieve the proper clamping load of the head gasket for these engines.

The head bolts for this engine should be tightened while the engine is COLD and no re-torque is required after the engine has reached operating temperature.

1991-92 CAR (VIN W) SOHC

- 1st STEP: Tighten all bolts in sequence to 18-25 ft/lbs.
- 2nd STEP: Rotate all bolts in sequence an additional 85-95°.
- 3rd STEP: Rotate all bolts in sequence an additional 85-95°.

1993-01 CAR (VIN V) DOHC

- 1st STEP: Tighten all bolts in sequence to 15-22 ft/lbs.
- 2nd STEP: Rotate all bolts in sequence an additional 85-95°.
- 3rd STEP: Rotate all bolts in sequence an additional 85-95°.

1993-95 CAR (VIN W) SOHC

- 1st STEP: Tighten all bolts in sequence to 25- 30 ft/lbs.
- 2nd STEP: Rotate all bolts in sequence an additional 85-95°.
- 3rd STEP: Rotate all bolts in sequence an additional 85-95°.

1996-99 CAR (VIN W, X) SOHC

- 1st STEP: Tighten all bolts in sequence to 28-31 ft/lbs.
- 2nd STEP: Rotate all bolts in sequence an additional 85-95°.
- 3rd STEP: Loosen bolts one full turn.

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4th STEP: Rotate all bolts in sequence to 30 ft/lbs.
5th STEP: Rotate all bolts in sequence an additional 85-95°.
6th STEP: Rotate all bolts in sequence an additional 85-95°.

TRUCK (VIN 6 + W) SOHC

1st STEP: Tighten all bolts in sequence to 26-31 ft/lbs.
2nd STEP: Rotate all bolts in sequence an additional 85-95°.
3rd STEP: Rotate all bolts in sequence an additional 85-95°.

The AERA Technical Committee

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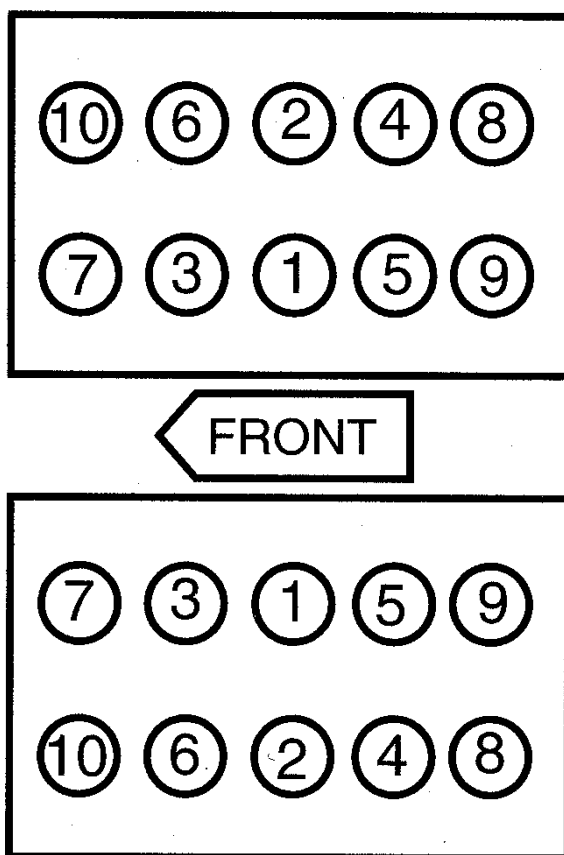
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Bulletin Diagram: CYLINDER HEAD BOLT TORQUE SEQUENCE - CAR ENGINES - CYLINDER HEAD



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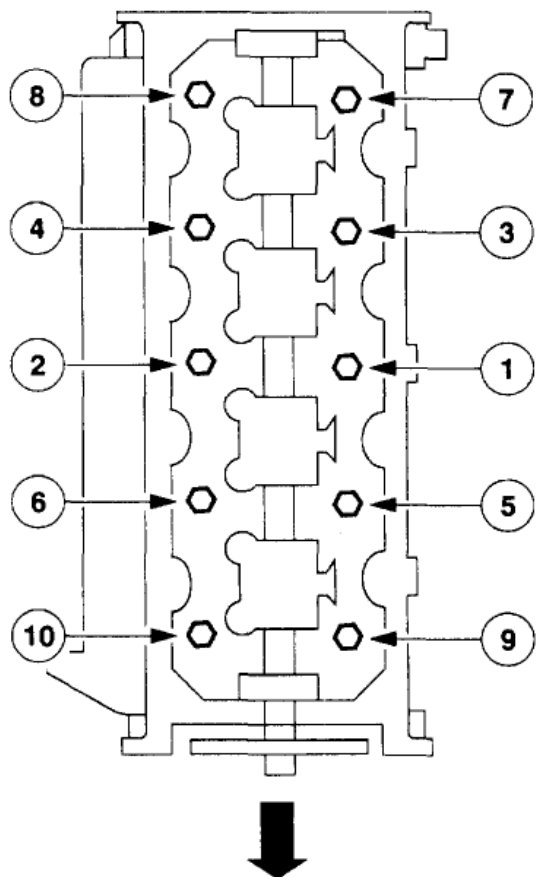
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Mfg: FORD
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Bulletin Diagram: CYLINDER HEAD BOLT TORQUE INSTALLATION - LEFT TRUK - CYLINDER HEAD



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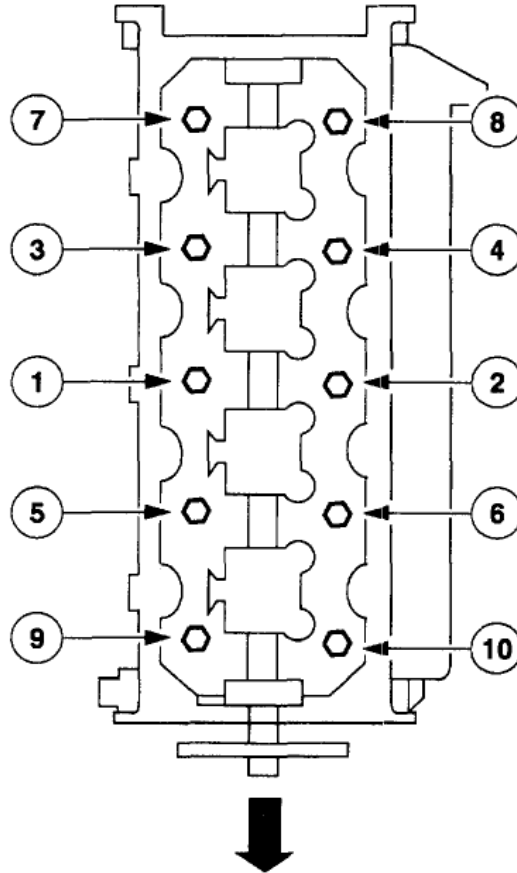
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October 2002
TB 2016

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Model: MUSTANG
Liter: 4.6L
VIN: W, X
Year: 91-09

Bulletin Diagram: CYLINDER HEAD BOLT TORQUE SEQUENCE - RIGHT TRUCK - CYLINDER HEAD



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