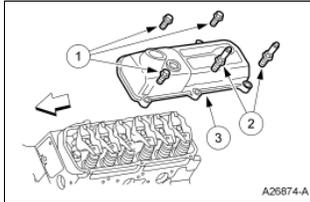


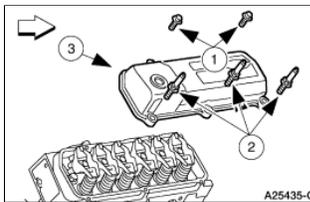
## Cylinder Head(s)

### Removal

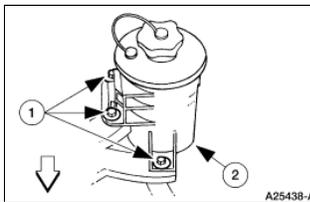
1. Remove the lower intake manifold; refer to the procedure in this section.
2. Remove the LH valve cover.
  1. Remove the three valve cover bolts.
  2. Remove the two valve cover stud bolts.
  3. Remove the LH valve cover.



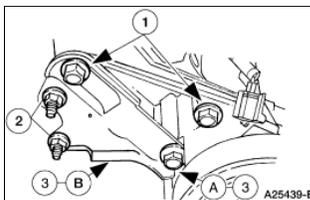
3. Remove the RH valve cover.
  1. Remove the two valve cover bolts.
  2. Remove the three valve cover stud bolts.
  3. Remove the RH valve cover.



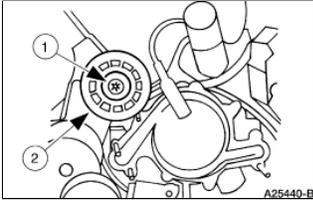
4. Remove the exhaust manifold; refer to the procedure in this section.
5. If removing the LH cylinder head, position the power steering pump reservoir aside.
  1. Remove the three bolts.
  2. Position the power steering reservoir aside.



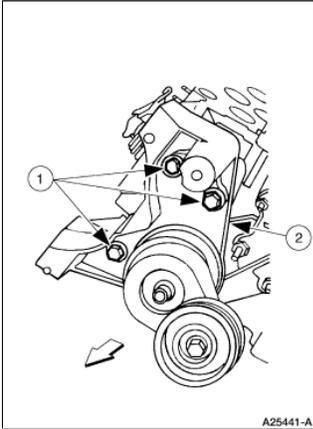
6. If removing the LH cylinder head and, if equipped, remove the A/C compressor; refer to [Section 412-03](#).
7. If removing the LH cylinder head, remove and support the A/C compressor bracket and power steering pump.
  1. Remove the two A/C compressor bracket bolts.
  2. Remove the two A/C compressor bracket nuts.
  3. Loosen the remaining (A) A/C compressor bracket bolt until the (B) A/C compressor bracket and power steering pump are free from the LH cylinder head. Support the A/C compressor bracket and power steering pump and position aside.



8. If removing the RH cylinder head, remove the generator (GEN) (10346); refer to [Section 414-02](#).
9. If removing the RH cylinder head, remove the idler pulley.
  1. Remove the bolt.
  2. Remove the idler pulley.

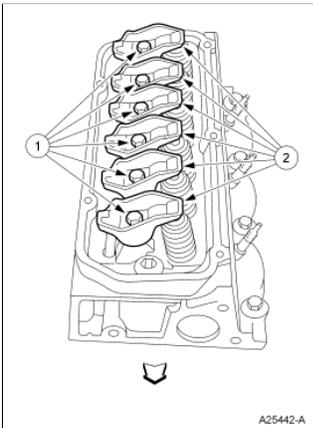


10. If removing the RH cylinder head, remove the generator bracket.
1. Remove the three bolts.
  2. Remove the generator bracket.

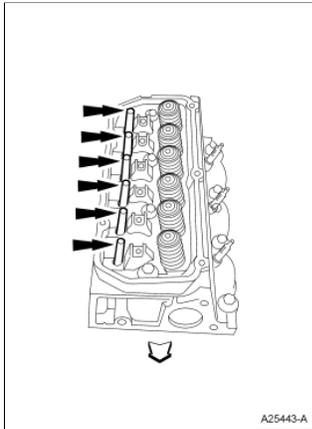


**⚠ CAUTION:** If the components are to be reinstalled, they must be installed in the same position. Mark the components for location.

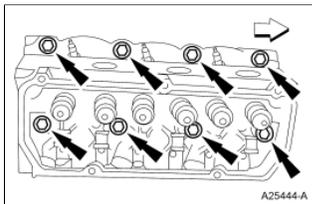
11. Remove the six rocker arms.
1. Remove the six bolts.
  2. Remove the six rocker arms.



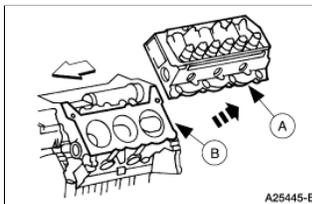
12. Remove the six push rods.



13. Remove and discard the eight cylinder head bolts.

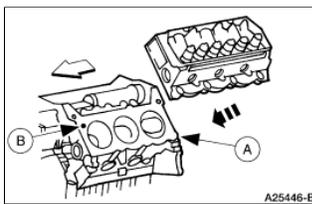


14. Remove the (A) cylinder head and the (B) cylinder head gasket (6051). Discard the (B) cylinder head gasket.



#### Installation

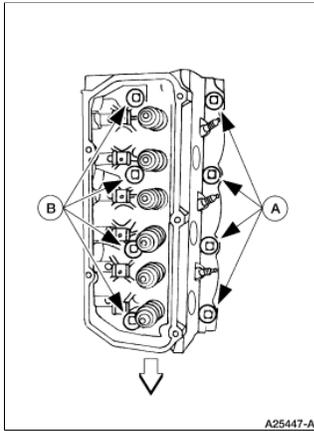
1. Clean and inspect the cylinder head for flatness; refer to [Section 303-00](#).
2. Install a new cylinder head gasket on the cylinder blocks with the (B) small hole to the front of the engine and position the cylinder head.



3. **CAUTION:** Always use new cylinder head bolts.

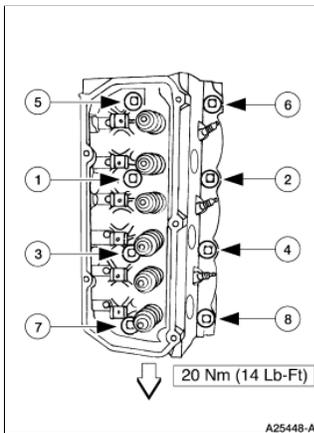
**NOTE:** Lubricate the cylinder head bolts with engine oil prior to installation.

Install the four new (A) short cylinder head bolts and the four new (B) long cylinder head bolts.

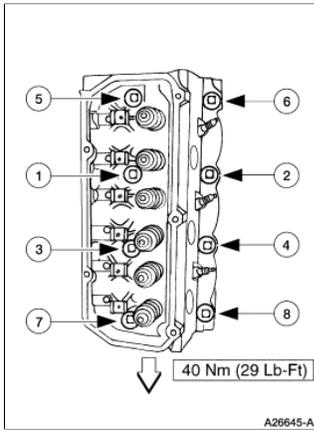


4. **NOTE:** Make sure to tighten the cylinder head bolts in three steps.

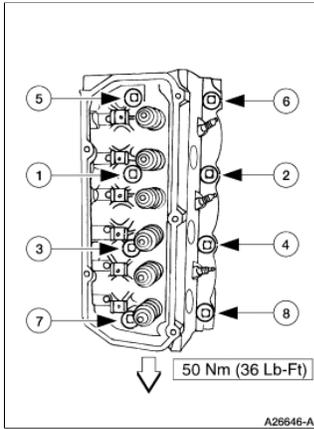
Tighten the cylinder head bolts in the sequence shown.



5. Tighten the cylinder head bolts in the sequence shown.

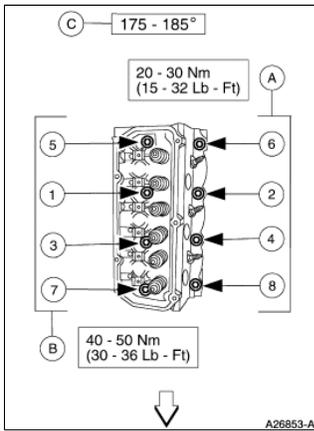


6. Tighten the cylinder head bolts in the sequence shown.



7. **CAUTION:** Do not loosen all of the cylinder head bolts at one time. Each cylinder head bolt must be loosened and the final tightening prior to working on the next bolt in the sequence.

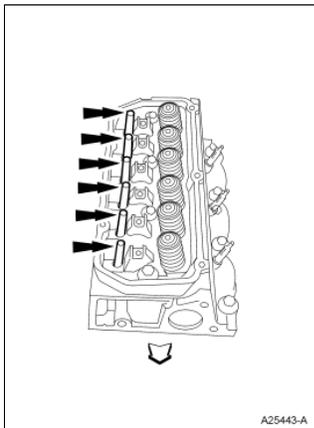
In the sequence shown, loosen the cylinder head bolt three turns, then tighten the (A) short cylinder head bolt or the (B) long cylinder head bolt to the specification indicated and then tighten the cylinder head bolt the (C) degree indicated.



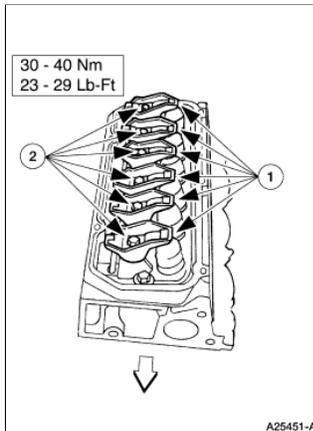
- CAUTION:** Refer to the location note made during removal and make sure components are installed in the correct location.

8. **NOTE:** Lubricate the push rods with engine oil prior to installation.

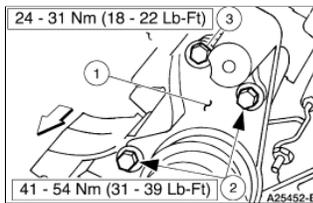
Install the six push rods.



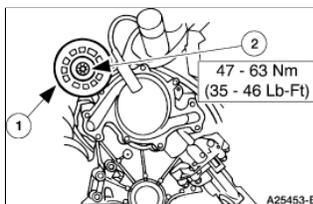
9. Install the six rocker arms.  
 1. Position the six rocker arms.  
 2. Install the six bolts.



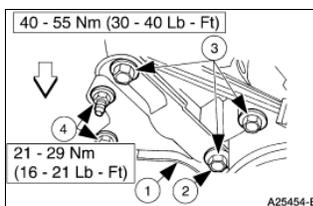
10. If valve train components have been replaced, inspect the valve clearance; refer to [Section 303-00](#).
11. If installing the RH cylinder head, install the generator bracket.
1. Position the generator bracket.
  2. Install the two long bolts.
  3. Install the short bolt.



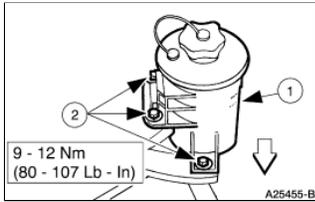
12. If installing the RH cylinder head, install the idler pulley.
1. Position the idler pulley.
  2. Install the bolt.



13. If installing the RH cylinder head, install the generator; refer to [Section 414-02](#).
14. If installing the LH cylinder head, install the A/C compressor bracket and power steering pump.
1. Position the A/C compressor bracket and power steering pump.
  2. Start the A/C compressor bracket bolt.
  3. Install the three A/C compressor bracket bolts.
  4. Install the two A/C compressor bracket nuts.



15. If installing the LH cylinder head, install the A/C compressor (if equipped); refer to [Section 412-03](#).
16. If installing the LH cylinder head, install the power steering fluid reservoir.
1. Position the power steering fluid reservoir.
  2. Install the bolts.

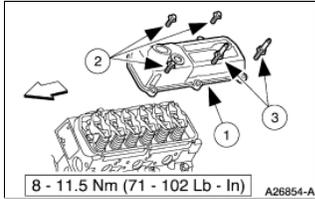


17. Install the exhaust manifold; refer to the procedure in this section.

18. **NOTE:** Inspect the LH valve cover gasket for damage. Replace if necessary.

Install the LH valve cover.

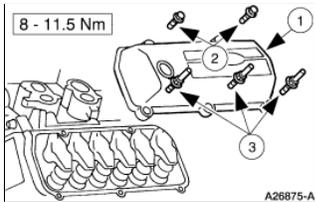
1. Position the LH valve cover.
2. Install the three bolts.
3. Install the two stud bolts.



19. **NOTE:** Inspect the RH valve cover gasket for damage. Replace if necessary.

Install the RH valve cover.

1. Position the RH valve cover.
2. Install the two bolts.
3. Install the three stud bolts.



20. Install the lower intake manifold; refer to the procedure in this section.

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