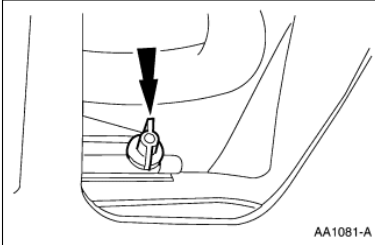
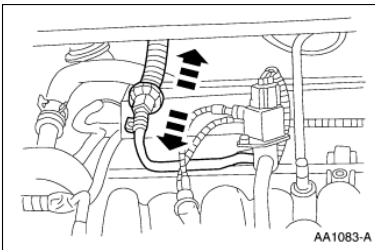


**Valve Cover—RH****Removal**

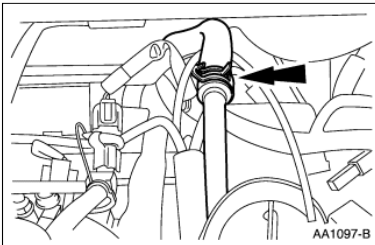
1. Disconnect the battery ground cable (14301).
2. Partially drain the cooling system; refer to [Section 303-03](#).



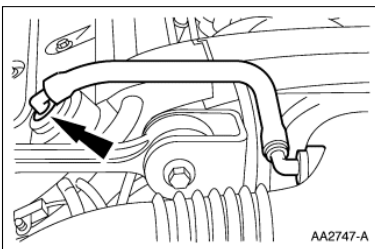
3. Remove the water bypass tube (8555); refer to [Section 303-03](#).
4. Disconnect the fuel tube.



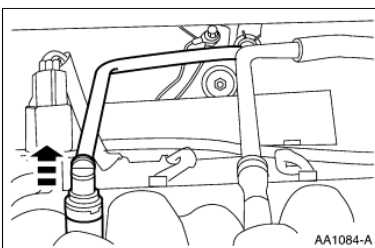
5. Disconnect the heater hose.



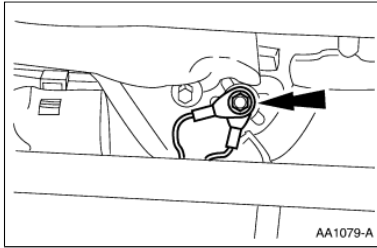
6. Remove the positive crankcase ventilation valve (PCV valve) (6A666) from the RH valve cover (6582).



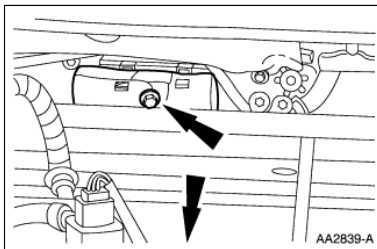
7. Remove the main chassis vacuum supply tube.



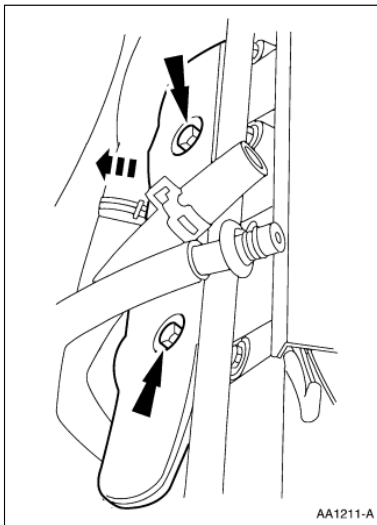
8. Disconnect the powertrain control module grounds.



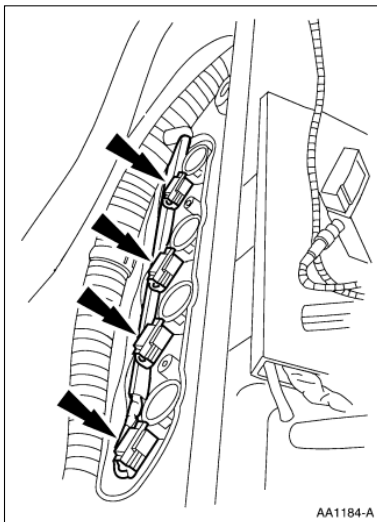
9. Disconnect the engine control sensor wiring (12A581) from the powertrain control module (PCM) (12A650). Remove the nut from the stud.



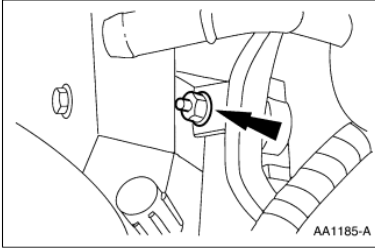
10. Remove the bolts and the ignition coil cover.



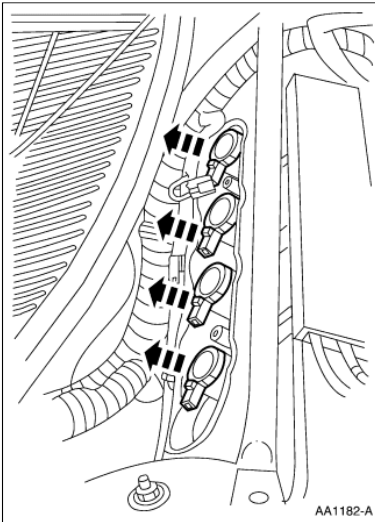
11. Disconnect the engine control sensor wiring from the four ignition coils (12029).



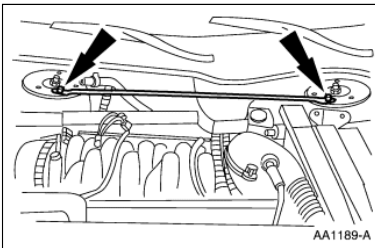
12. Remove the nuts and position the engine control sensor wiring out of the way.



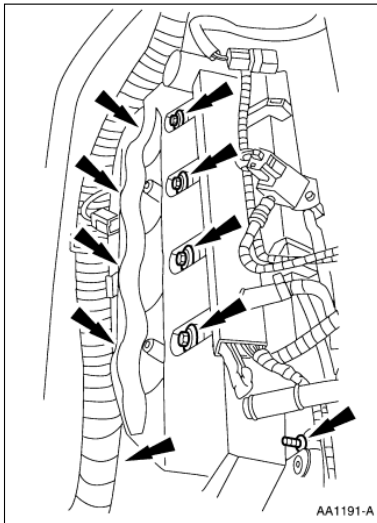
13. Remove the four ignition coils.



14. Remove the cross-vehicle support.



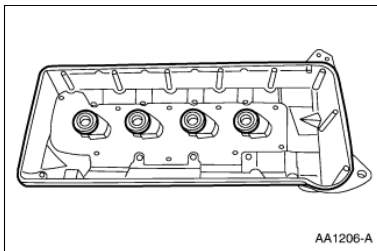
15. Remove the valve cover.
- Remove the eight bolts and two studs from the RH valve cover.
  - Remove the RH valve cover.



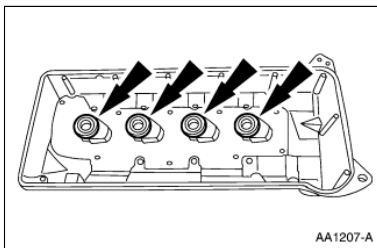
### Installation

1. **NOTE:** The sealing surfaces must be clean and dry before applying the sealant.

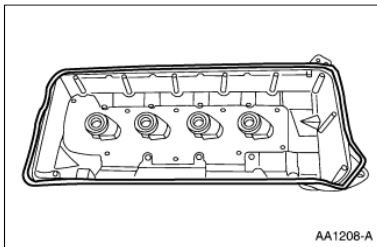
Clean the sealing surfaces of the RH cylinder head (6049) and the RH valve cover.



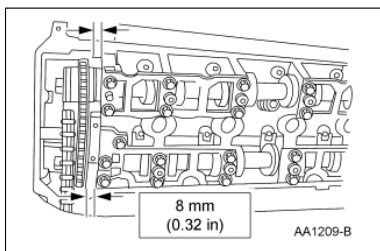
2. Install the new spark plug bore O-ring seals.



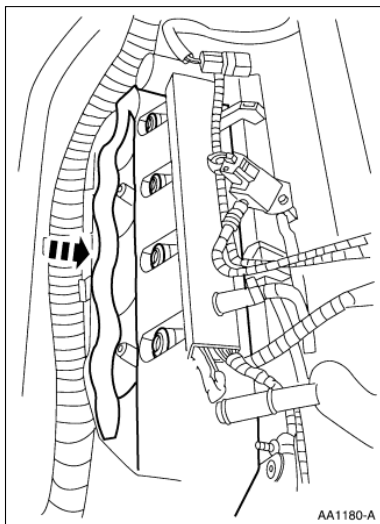
3. Using a suitable sealant, position and glue a new RH valve cover gasket (6584) in the RH valve cover.



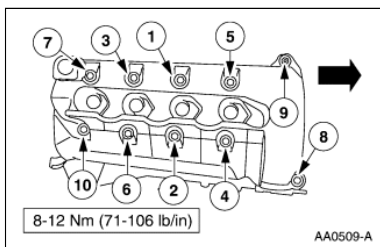
4. Apply Silicone Gasket and Sealant F6AZ-19562-AA or equivalent meeting Ford specification WSE-M4G323-A6 in two places where the engine front cover (6019) meets the RH valve cover.



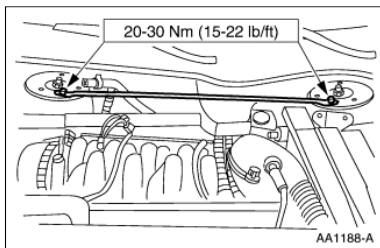
5. Position the RH valve cover.



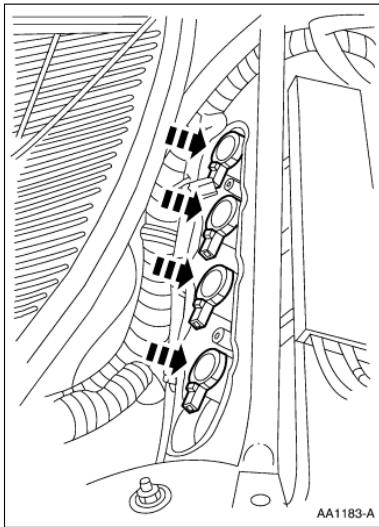
6. Install the eight bolts and the two studs in the sequence shown.



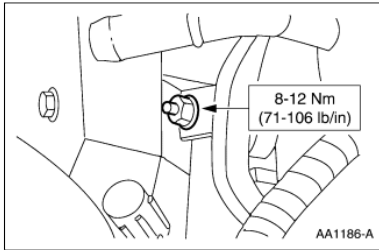
7. Install the cross-vehicle support.



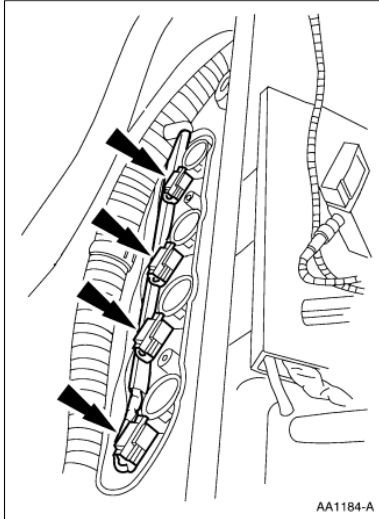
8. Install the ignition coils.



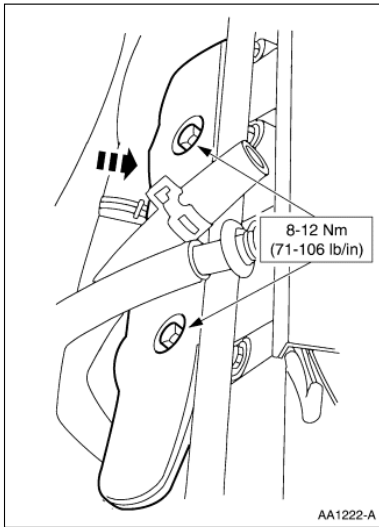
9. Position the fuel charging wiring (9D930) and install the two nuts.



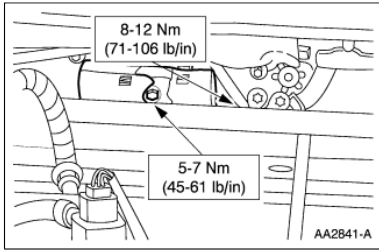
10. Connect the engine control sensor wiring to the four ignition coils.



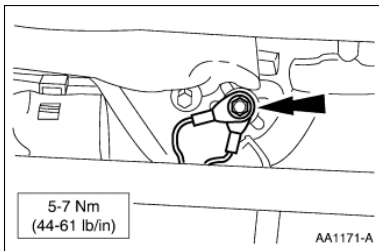
11. Install the ignition coil cover.



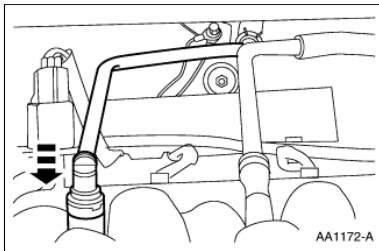
12. Connect the engine control sensor wiring to the powertrain control module and install the engine control sensor wiring to the valve cover stud.



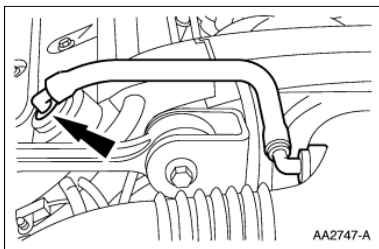
13. Connect the powertrain control module ground straps.



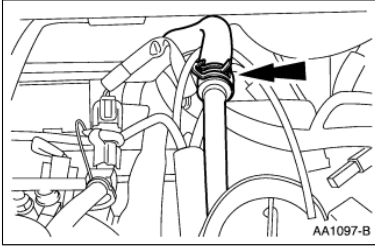
14. Install the main chassis vacuum supply tube.



15. Install the positive crankcase ventilation valve to the RH valve cover.



16. Connect the heater water hose (18472).



17. Connect the fuel inlet tube; refer to [Section 310-00](#).
  18. Install the water bypass tube; refer to [Section 303-03](#).
  19. Connect the battery ground cable.
  20. Fill and bleed the cooling system; refer to [Section 303-03](#).
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