

IN-VEHICLE SERVICE (Continued)

Rocker Arm Cover

NOTE: The rocker arm covers have integral (built-in) gaskets which should last the life of the vehicle. Follow the steps provided should removal become necessary.

Removal

1. Disconnect battery ground cable and set aside.
2. With a turning motion, disconnect ignition wires from spark plugs.
3. Remove ignition wire / separator assembly from rocker arm cover retaining studs and move out of the way.
4. If LH rocker arm cover is being removed perform the following:
 - Disconnect PCV system closure tube.
 - Remove oil fill cap (if replacing cover).
 - Remove fuel injector harness stand-offs from inboard rocker arm cover studs. Move harness out of the way.
5. If RH rocker arm cover is being removed, perform the following:
 - Remove throttle body as outlined.
 - Loosen lower EGR tube retaining nut and rotate EGR valve to exhaust manifold tube out of the way.
 - Remove PCV valve (if replacing cover).
 - Remove fuel injector harness stand-offs from inboard rocker arm cover studs.
 - Move fuel injector harness out of the way.
6. Loosen rocker arm cover retaining bolts and studs and then carefully slide a sharp, thin bladed knife between cylinder head and rocker cover gasket at the rail step where the intake manifold mates to the cylinder head (two places each side). Cut only the RTV sealer and not the integral gasket, then remove cover making sure the RTV sealer does not pull the integral gasket from the cover.

Installation

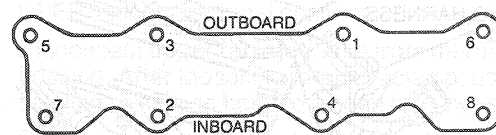
CAUTION: Check gasket for correct installation. New gasket will lay flat to the rocker cover in both the channel and fastener areas. If the gasket is installed incorrectly, oil leakage will occur.

NOTE: Lightly oil all bolt and stud threads before installation. Using solvent, clean cylinder head and rocker arm cover sealing surfaces to remove all silicone sealer and dirt.

1. Apply bead of Silicone Gasket and Sealant F1AZ-19562-A (WSE-M4G320-A2) or equivalent at cylinder head to intake manifold rail step (two places per rail) as shown.

CAUTION: Use a straight down approach when installing rocker cover. Any adjustment after RTV sealer contact can roll gasket from cover channel resulting in leaks.

2. Position cover on the cylinder head and hand tighten retaining bolts and studs. Then, tighten in sequence to 10-14 N·m (8-10 lb-ft).



TIGHTENING SEQUENCE — ROCKER ARM COVER A14927-A

3. If LH rocker arm cover is being installed, perform the following:
 - Install oil fill cap (if removed).
 - Connect PCV system closure tube to nipple.
 - Install fuel injector harness stand-offs to the appropriate inboard rocker arm cover studs (two required).
4. For unleaded gasoline only, if RH rocker arm cover is being installed perform the following:
 - Install fuel injector harness stand offs to the appropriate inboard rocker arm cover studs (two required).
 - Install throttle body as outlined.
 - Install PCV valve and connect hoses.
 - Connect EGR valve to exhaust manifold tube to EGR valve. Tighten both retaining nuts to 50 N·m (37 lb-ft).