



BBK 4.6 2V Valve Cover

INSTALLATION INSTRUCTIONS

Tools	1/4" Drive	8mm Deep Socket
	Ratchet	Small Torque Wrench
	Swivel	6" or Longer Extension
	5mm Socket	Pick or Small Flat Screwdriver
	7mm Socket	

Installation Will Take 1 to 2 Hours

For this task you will need to unplug some electrical, vacuum, and fuel connections.

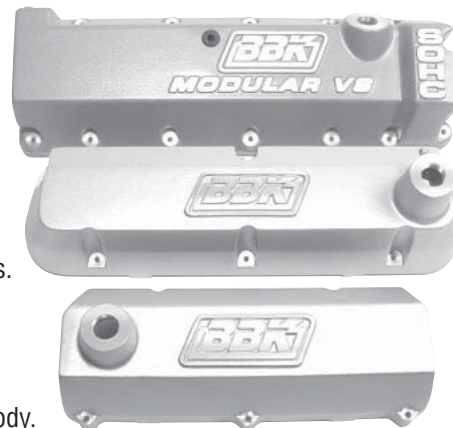
Passenger Side

- Step 1** Disconnect negative (-) battery cable.
- Step 2** Using 8mm socket remove air filter box and inlet hose from throttle body.
- Step 3** Starting at front of engine and working back towards firewall, unplug crank sensor, air conditioning compressor, black 4 wire connector on frame rail, grey single wire plug, coolant sensor (on top of manifold), fuel injectors, spark plug coils, IAC valve & map sensors at throttle body, and red vacuum lines at connections. At this point you should be able to pull the wiring harness out of the way.
- Step 4** Remove black schrader valve cover on top of fuel rail,(over front injector) and carefully press down on valve with pick or screwdriver to release fuel pressure. **Use caution as fuel may be under pressure!**
- Step 5** Remove 8mm bolts from fuel rail and pull up carefully. Make sure each injector has an o-ring on the tip and on the base, (the o-rings can sometimes get stuck inside the fuel rail). Remove injectors and set them in a safe place where they won't be damaged.
- Step 6** Remove coils using 7mm socket and set them where they won't be damaged.
- Step 7** Using 8mm deep socket, extension, and swivel where needed, remove valve cover bolts. After the bolts are loose lift the valve cover up towards hood to remove.

NOTE

Stock valve cover bolts are permanently affixed. We supply new bolts for this reason.

- Step 8** Make sure gasket surface is clean.
- Step 9** Install compression stops into new valve cover gasket then place gasket into position, (be careful not to drop any of the compression stops into the head).
- Step 10** Lower valve cover into position then insert new bolts. Refer to illustration "A" for tightening sequence.
- Step 11** Using torque wrench tighten bolts in sequence to 71-106 inch lbs.
- Step 12** Re-install coils, tighten to 45-60 inch lbs.



Step 13 Re-install injectors, fuel rail, and re-establish all connections.

Step 14 Re-install air filter box and inlet hose.

Driver Side

Much like the passenger side you will need to unplug electrical vacuum and fuel connections in the area around the valve cover.

Step 1 Starting at front of engine unplug the wiring harness and work your back towards firewall.

Step 2 Using 8mm socket remove 2 bolts from throttle cable at firewall.

Step 3 Using 5mm socket remove 2 bolts from clutch cable at firewall.

NOTE

This will allow you to carefully move the throttle and clutch cables for clearance during valve cover removal and installation.

Step 4 Unplug electrical connection from brake reservoir.

Step 5 Repeat Steps 5-13 from passenger side.

Step 6 After checking all connections, reconnect negative (-) terminal to battery.

Step 7 Start engine.

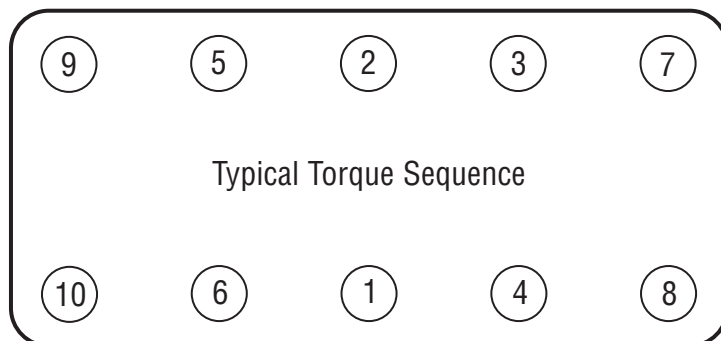


Illustration A