Low er Intake M anifold with FuelRail

Special tools and workshop equipm entrequired

t Socket14mm -3150-

- t Torque wrench -V A G 1331-
- t Ratchet-V A G 1331/1-
- t Open endwrench socket 17mm VAG 1331/2-
- t SW 14 socket, open ring -V A G 1331/8-
- t Socket-T40055-
- t Hand vacuum pump VAS 6213-

Rem oving





The follow ing rem oval and installation procedure is for the left intake m anifold, bw er. The procedure for the other side is identical.

7-.

WARNING

- Fuel system is under high pressure! Before opening high pressure com ponents of the fuel injection system , pressure m ust be relieved to residual pressure \rightarrow Chapter.
- Then wrap a clean rag around the connection and relieve residual pressure by carefully losening the connection.
- Rem ove intake manifold upper \rightarrow Chapter.
- R en ove high-pressure line, thereby rem oving bolts and union nuts -1 through



- Disconnect electrical harness connectors:
- 1 Intake manifold runner position sensor 2 -G 512-
- 2 Fuelpressure sensor -G 247-
- R em ove bolts and nuts -arrow s- and rem ove intake manifold low erw ith fuel rail.

i Note

Plug intake ports of the cylinder head with clean rags.

Installing

Installation is in reverse order of rem oval, note the follow ing:



t Replace gaskets and O-rings.

t Lightly lubricate fuel in jector 0 -rings with clean engine oil.



- to intake manifold runner control vacuum actuator, as shown in illustration.
- Generate vacuum using hand vacuum pump.
- 1 The intake flaps are opened.



If the intake flaps are not opened, they could have seized when installing the intake m anifold low er to the cylinderhead.

- Install intake manifold low er and press fuel railevenly onto fuel injectors.

- Fasten bolts -arrow s- for intake m anifold low er in a diagonal sequence and in stages.
- Remove hand vacuum pump from intake manifold runner control vacuum actuator.
- Connectelectrical harness connectors -1and -2-.



- Hand-tighten union nuts of high-pressure lines -1-, -4- and -7-.
- M ake sure high-pressure lines are seated free of stress.



To fasten high-pressure line (14 mm) at

- high pressure pum p use torque w rench -V A G 1331-w ith ratchet-V A G 1331/1and socket 14 mm -3150-.



- To fasten high-pressure line (17 mm) to - high pressure pump, use torque w rench -V A G 1331-w ith reversible ratchet -
 - V A G 1331/1-and socket-T40055-.

Tightening Specifications

C om ponent	Nm
Intakem anifold low er-part to cylinder head	10
H igh pressure lines to H igh pressure pum p	25
Fuelmail	25