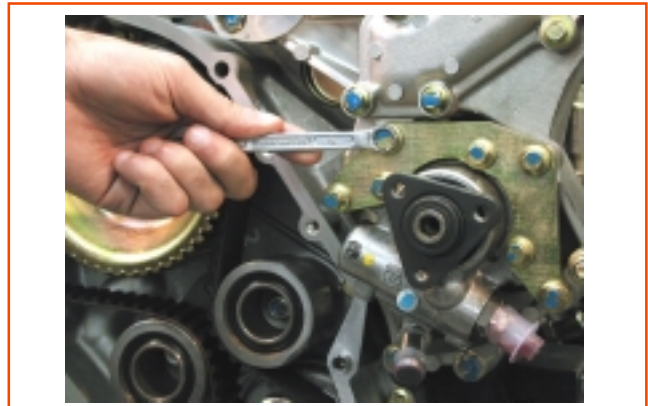


**➤ ACCESSORIES****POWER STEERING PUMP****Removal**

1. Remove radiator upper hose from thermostat.
2. Remove fan, see FAN Removal.
3. Loosen power steering pump pulley bolts.
4. Remove moving belt, see ACCESSORIES MOVING BELTS Removal.
5. Remove power steering pump pulley.
6. Disconnect hydraulic oil inlet pipe (low pressure lower pipe) and drain fluid in an appropriate recipient.
7. Disconnect outlet pipe (pipe with union) and drain fluid.
8. Cover the pump and hoses extremity.
9. Loosen pump assembly support fixation bolts and remove the complete pump with assembly support.
10. In case of a new pump assembly, remove assembly support and pump hoses connectors and install them on the new pump.



**Reinstallation**

1. Reinstall in the inverse order of the removal, applying Loctite 271 and tighten bolts within 26 to 34 Nm.
2. Complete reservoir with recommended fluid.
3. Start the engine and complete turn steering wheel from one side to the other.
4. Check again fluid level, complete if necessary and check for leakages.



**Warning:** Bleeding, according to the manual of the vehicle.

**ALTERNATOR WITH VACUUM PUMP****Removal**

1. Remove moving belt.
2. Disconnect cables from the rear part of the alternator.
3. Remove vacuum pump piping.
4. Remove alternator base fixation bolt.
5. Loosen long passing-by upper fixation bolt and remove alternator.

**Reinstallation**

1. Reinstall alternator in the inverse order of the removal, tighten bolts according to specification.

**ALTERNATOR****Removal**

1. Remove moving belt.
2. Disconnect cables from the rear part of the alternator.
3. Remove alternator base fixation bolt.
4. Loosen long passing-by upper fixation bolt and remove alternator.

**Reinstallation**

1. Reinstall alternator in the inverse order of the removal, tighten bolts according to specification.

## VACUUM PUMP

### Removal

Vacuum pump of turbocharged International HS 2.8L Engines is attached to the alternator.

1. Remove alternator, see ALTERNATOR, Removal.
2. If it is necessary to repair vacuum pump, it is recommended to send the complete set (alternator and vacuum pump) to Bosch Network.



**Warning:** By not execution this procedure, the warranty will be canceled.

### Installation

1. Install in the inverse order of the removal, tighten bolts according to specification.

## Air conditioning compressor

### Removal

1. Remove compressor pulley belt tensor, see ACCESSORIES MOVING BELTS - Removal
2. Disconnect cables from the rear part of the compressor.
3. Remove piping from the rear part of the compressor.
4. Remove upper support bolts.
5. Remove compressor fixation bolts to housing support.

### Reinstallation

1. Reinstall in the inverse order of the removal, tighten bolts according to specification.

**Accessories support****Removal**

1. Remove water pump and power steering pump pulleys bolts.
2. Remove accessories moving belt tensor, see ACCESSORIES MOVING BELT Removal.
3. Remove water pump hoses.
4. Remove power steering pump, see POWER STEERING PUMP Removal.
5. Remove alternator and vacuum pump, see ALTERNATOR Removal.

**Reinstallation**

1. Reinstall in the inverse order of the removal tightening bolts according to specification.