
Complaint:

Injection pipes on cylinders 1-4 leaking because of fatigue fracture

Remedy

Install injection pipes with double cone.

Ensure the plastic clips are correctly installed.

Parts	Part no.
Cylinder 1 injection pipe	601 070 23 33
Cylinder 2 injection pipe	601 070 24 33
Cylinder 3 injection pipe	601 070 36 33
Cylinder 4 injection pipe	601 070 26 33

Complaint:

Engine cannot be switched off when cold (was SI 07.1/37 and 43/6)

Cause

Damaged piston vacuum pump (model up to May 1986).

Remedy

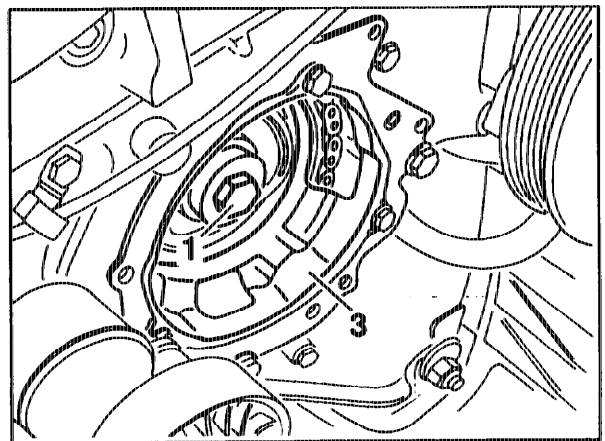
If this problem exists on models manufactured prior to this date, which do not have a second drilling in the oil spray nozzle for the oil supply of the piston vacuum pump, or for performing work which requires taking off the vacuum pump, remove the centering sleeve and install in modified seal for improving the oil supply.

Procedure

- 1 Remove flange shroud, fan and belt (see Repair Instructions Group 13, Op. No. 342).
- 2 Remove piston vacuum pump (see Repair Instructions Group 43, Op. No. 618).
- 3 Remove centering sleeve (3). It must no longer be installed.

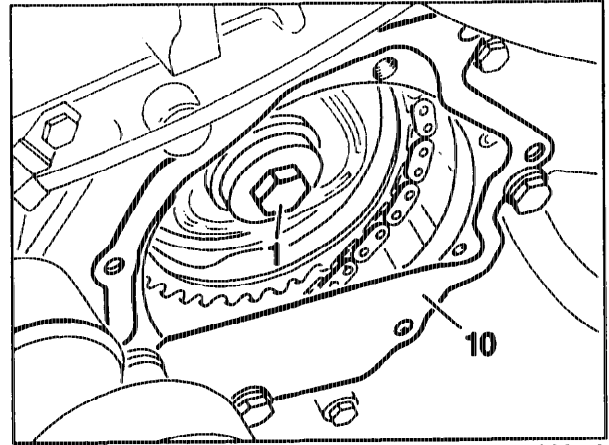
Note

The centering sleeve should be installed as an aid when removing the injection pump. It prevents the injection timing device jamming when cranking the engine.



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- 4 Install modified seal (10) in place of the previous one.
- 5 When dealing with the problem mentioned above, install new vacuum piston pump.
- 6 Do not connect vacuum pipes to the brake unit at the piston vacuum pump at this stage.
- 7 Install V-belt, fan and fan shroud.
- 8 Run engine and pour about 50 cm³ engine oil into the piston vacuum pump through the open vacuum connection with an oil spray can.



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- 9 Connect the vacuum pipe to the brake unit immediately.
- Refer to the microfiche "operation texts and work units" under Op. No. 43-0610 for the work units.

Part	Part No.
Piston vacuum pump	000 230 19 65
Seal	601 238 03 80

Production breakpoint of second drilling in oil spray nozzle: May 1986

Model	Engine	Transmission	As of engine end no.
124.133/193	603.960	automatic	000602
126.125	603.961	automatic	002202
124.133	603.962	automatic	000057

Complaint:

Engine misfires between 2000 and 3000 rpm

Cause

Overshooting of AJC servomagnet causes quantity reduction.

Remedy

Install AJC control module with the designation RO2 (was RO1), part no. unchanged.

Standard equipment as of end 04/88. Adjust AJC control with 2.4 kΩ or 4.7 kΩ reference resistor (see RA07.1-1841, pages 13, 14).

Complaint:

Poor engine output, sluggish acceleration, top speed is not reached.

Remedy

1 Check full load stop, adjust
(see RA 07.1-1100).

2 Perform speedometer comparison on roller
dynamometer (see RA 07.1-1203).

Note

Perform speedometer comparison at about
160 km/h. If the difference is not within
tolerance, calibrate speedometer.

3 Test start of delivery (see RA 07.1-8240,
RA 07.1-8244).

4 Adjust start of delivery (see RA 07.1-8300).

5 Test max. engine speed at no load
(see RA 07.1-1203).

6 Set max. engine speed to top tolerance limit
by turning hexagon socket bolt (2m) to the right.

Note

1/2 turn equals 150 rpm.

7 Test full load CO (see RA 07.1-1203). If full
load quantity is $< 0.1\%$, increase the full load
quantity.

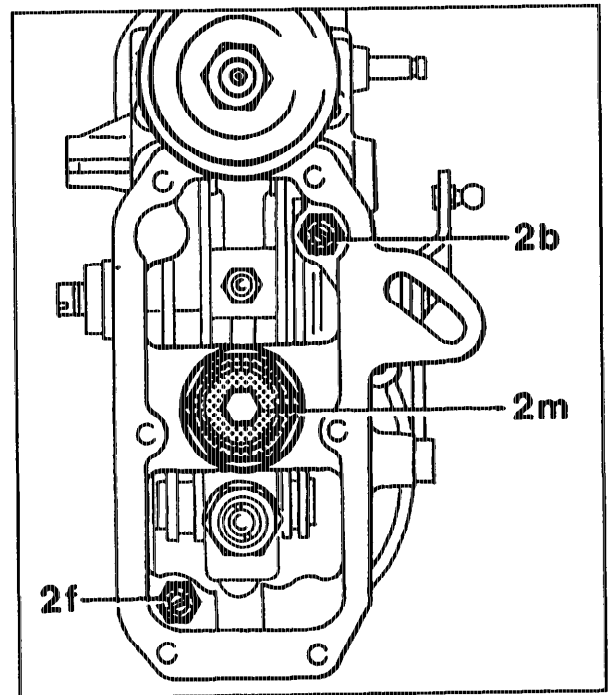
Note

On models with the exhaust gas recirculation
(Code 620), it is not possible to measure full
load CO at the tailpipe. A single adjustment
should be performed. If this does not result in
any increase in engine output, continue with step
9.

8 Increase full load quantity.

a) **Engines without anti-jerk control (AJC):**

- Turn slotted screw (2f) about 1/4 turn to the
left.



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b) Engines with anti-jerk control (AJC):

- Remove AJC servomagnet (Y22/3) and flange.

Note

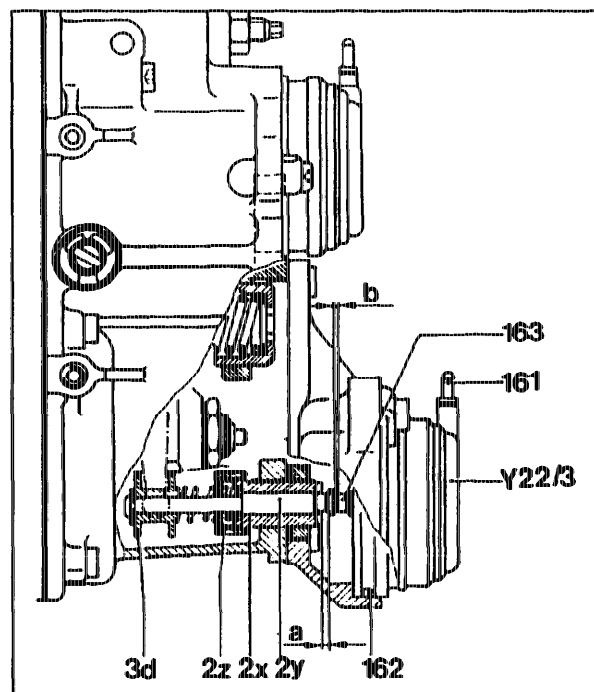
Use T30 Torx. Screws are microencapsulated.

- Slacken lock nut of sliding pin (2y).
- Turn sliding pin (2y) about 1/4 turn to the left.
- Tighten lock nut of sliding pin (2y).
- Bolt on flange and insert servomagnet (Y22/3) without O-ring (162).

Note

When inserting servomagnet, no resistance should be felt; shorten lift rod (163) of servomagnet (Y22/3) up to max. 0.3 mm if necessary.

- Install servomagnet (Y22/3) with O-ring (162).
- Check injection pump for leaks.



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9 Models with exhaust gas recirculation (Code 620):

- Remove injection pump, install (see RA 07.1-8410).
- Set injection pump on injection pump test bench.