

2.0L (ENGINE CODE ABA) - LUBRICATION SYSTEM

Article Text

1996 Volkswagen Golf
For Volkswagen Technical Site
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Friday, August 20, 1999 12:06AM

ARTICLE BEGINNING

TECHNICAL SERVICE BULLETIN

ENGINE LUBRICATION SYSTEM - 2.0 LITER ENGINE CODE ABA

Model(s): 1996-on Volkswagen Golf III, Jetta III, Cabrio
Group: 17 - Engine - Lubrication System
Bulletin No.: 95-01
Date: October 16, 1995

File this Technical Bulletin in Repair Manual No.: W42 011 294 105.

SERVICE INFORMATION

This information describes changes in engine components and specifications for the 2.0 liter engine starting with August, 1995 production (OBD II).

The following information will be integrated into the Repair Manual during the next update.

LUBRICATION SYSTEM, COMPONENTS

Refer to Fig. 1.

- 5 - 0.3 bar oil pressure switch -F22-
 - * 25 N.m (18 ft-lb)
 - * Wire: blue/black
 - * If leaking, cut seal and replace.Engines up to 07.95
 - * 0.3 bar (4.4 psi)
 - * Housing: brownEngines 08.95-on
 - * 0.25 bar (3.6 psi)
 - * Housing: blue
- 6 - Oil pressure switch -F1-
 - * 1.8 bar (26 psi)
 - * 25 N.m (18 ft-lb)
 - * Housing: white
 - * Wire: yellow
 - * If leaking, cut seal and replace.
- 23 - Sound deflector
 - * To remove, remove oil pump cover or suction line.
 - * Not applicable from 08.95-on.
- 25 - Pressure relief valve
 - * 25 N.m (18 ft-lb)
 - * Not applicable from 08.95-on.
- 26 - Oil spray nozzle
 - * For piston cooling.

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* Not applicable from 08.95-on.

OIL PRESSURE AND OIL PRESSURE SWITCHES CHECKING

For functional testing and repair of the optical warning light) and acoustic (buzzer) oil pressure warning systems, see Electrical Wiring Diagrams, Troubleshooting & Component Locations binder.

- Remove 0.3 bar oil pressure switch -F22- (brown insulation) and install in VAG 1342 tester. See Fig. 2.

NOTE: From 08.95: 0.25 bar oil pressure switch -F22- with blue insulation.

- Connect tester to cylinder head in place of oil pressure switch -F22-.
- Connect brown wire -3- from tester to Ground (GND).
- Connect VAG 1527B voltage tester to battery positive voltage (B+) and oil pressure switch -A- using adapters from VW 1594 connector test kit. See Fig. 2.

* LED should light up.

- Start engine and increase RPM slowly.
- * At 0.15-0.45 bar (2.1-6.5 psi) LED should go out.

If NO:

- Replace oil pressure switch -F22-.
- Connect voltage tester with 1.8 bar oil pressure switch -F1- (white insulation) -B-.
- * At 1.6-2.0 bar (23-29 psi) LED must light up.
- Replace oil pressure switch -F1-.
- Increase RPM further.
- * At 2000 RPM and 80°C (176°F) oil temperature, oil pressure must be min. 2.0 bar (29 psi).
- * At higher RPM, oil pressure must not exceed 7.0 bar (101 psi). If necessary, replace oil pump cover with pressure relief valve.

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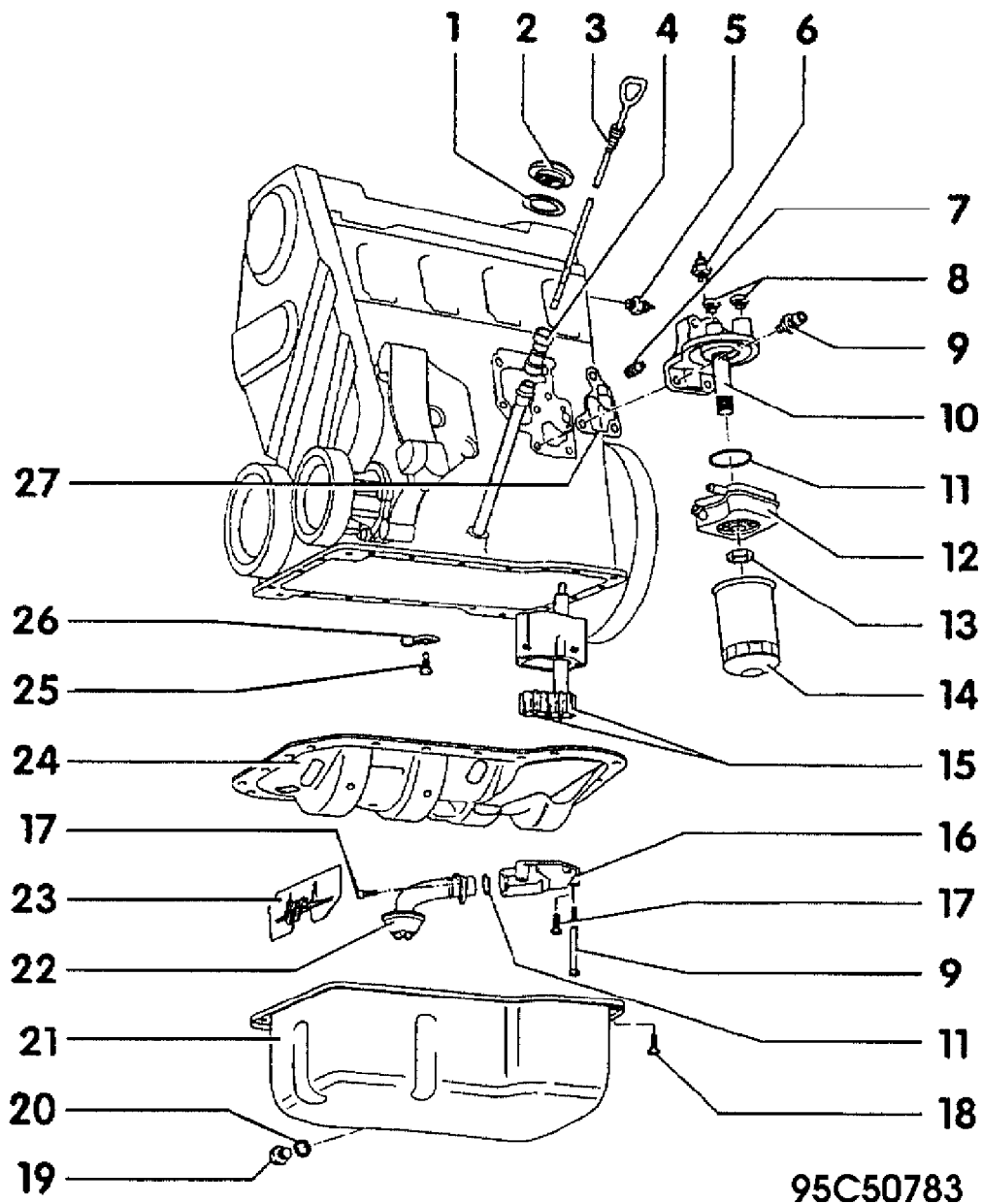
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Fig. 1: Lubrication System Components

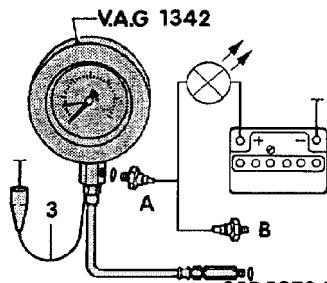


Fig. 2: VAG 1342 Tester Connections

END OF ARTICLE