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Component Search:

Conversion Calculator

1987 Mercedes Benz 300TD (124 Chassis) L6-2996cc 3.0L DSL SOHC Turbo 603

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Fuel Injection Pump Timing Test (DE-04.07)

[Notes](#)

Fuel Injection Pump Timing Test (DE-04.07)

This test is divided into the following sections

- A. Static RIV Method
- B. Dynamic RIV Method

A. Static REV Method

Test Data

RI-Test value (Indirect delivery begin)

15°±1°after TDC

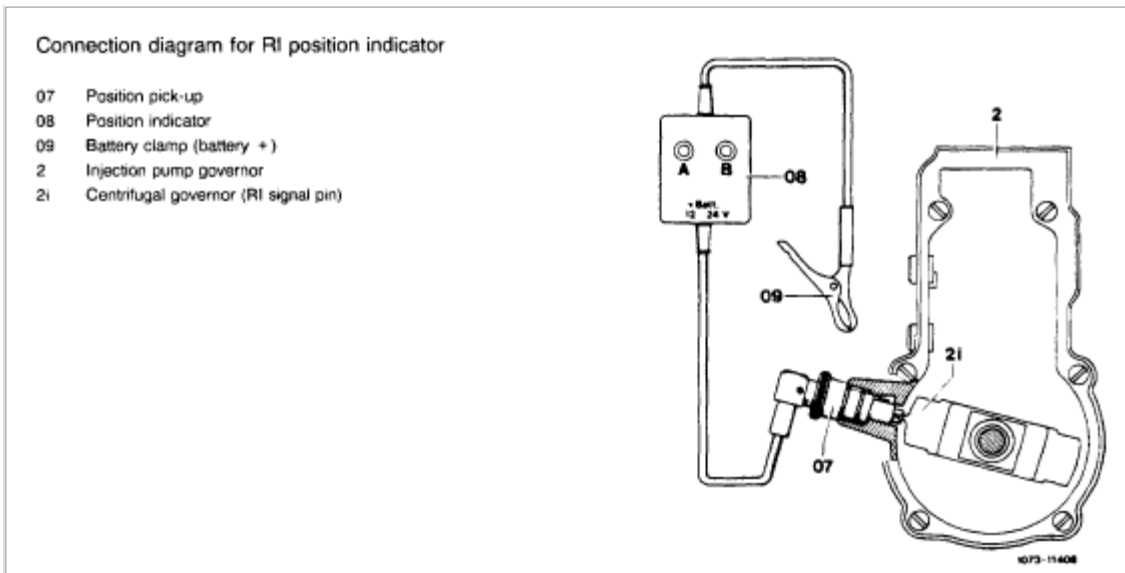
Tightening Torque

RI-Test connection plug

30-35 Nm (22-25 ft lb)

| Special Tools | | |
|------------------|------------------|------------------|
| | | |
| 617 589 08 21 00 | 001 589 66 21 00 | 001 589 65 09 00 |

Connection Diagram



Test

1. Remove air filter cover (arrows, engine 602 only).
2. Unscrew plug (11) in fuel injection pump.
3. Attach position pick-up to fuel injection pump. Make sure that guide pin (arrow) of position pick-up points upward. Tighten nut by hand.
4. Connect position indicator according to diagram.
5. Turn engine by hand in direction of rotation until lamp "B" lights up. Continue to turn engine slowly until both lamps are on ("A" and "B"). Read injection pump timing in this position at graduation of vibration damper (indirect delivery begin).
If only lamp "A" lights up, repeat test procedure.

Nominal value: $15^\circ \pm 1^\circ$ after TDC

O.K.

Not O.K.

Adjust fuel injection pump timing

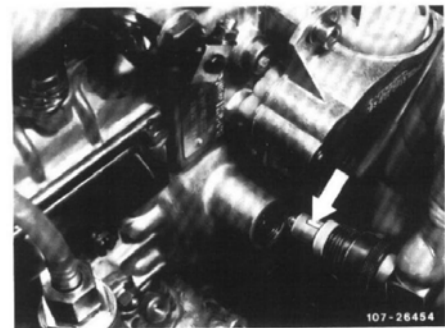
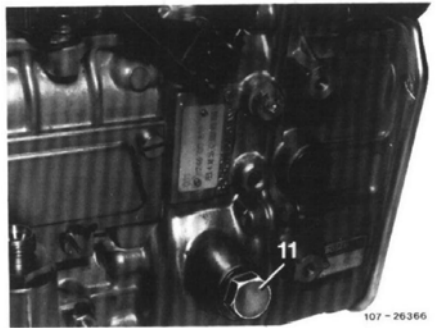
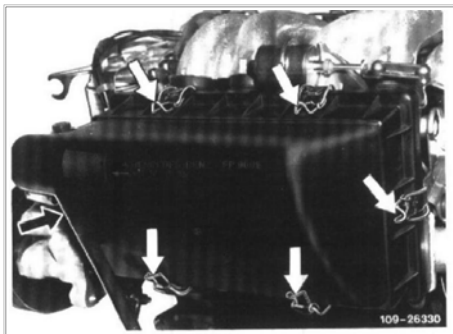
Disconnect position indicator and install plug (11).
Install air filter cover.

Run engine and check for leaks.

End of Test

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B. Dynamic RIV Method

Test Data

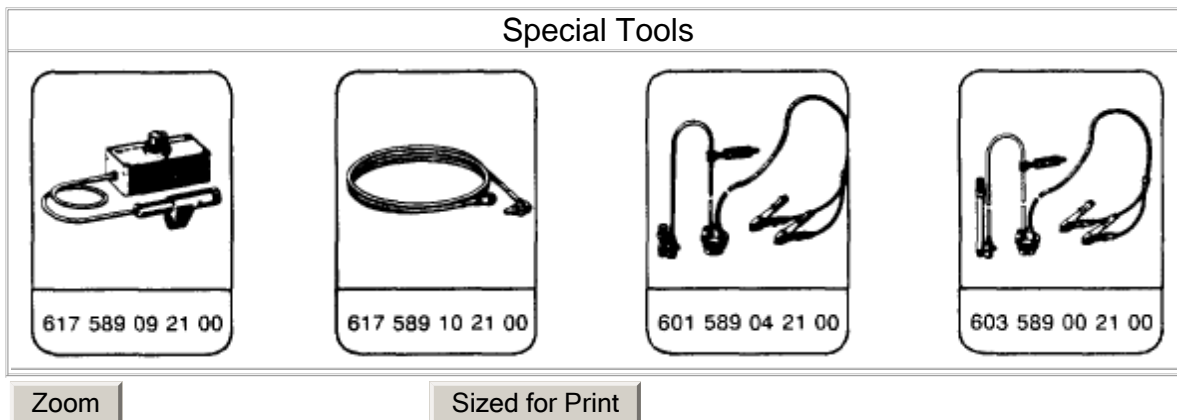
RI-Test value (Indirect delivery begin)

15°±1°after TDC

Tightening Torque

RI-Test connection plug

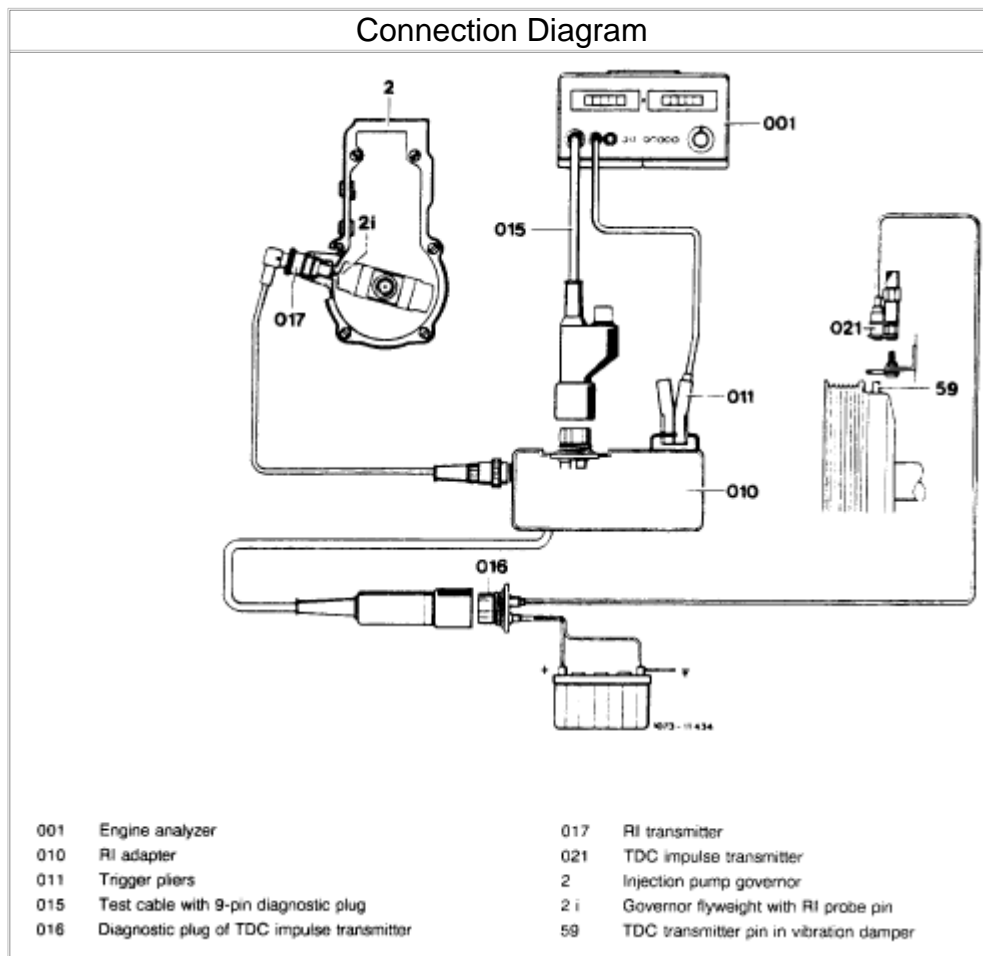
30-35 Nm (22-25 ft lb)



Equipment

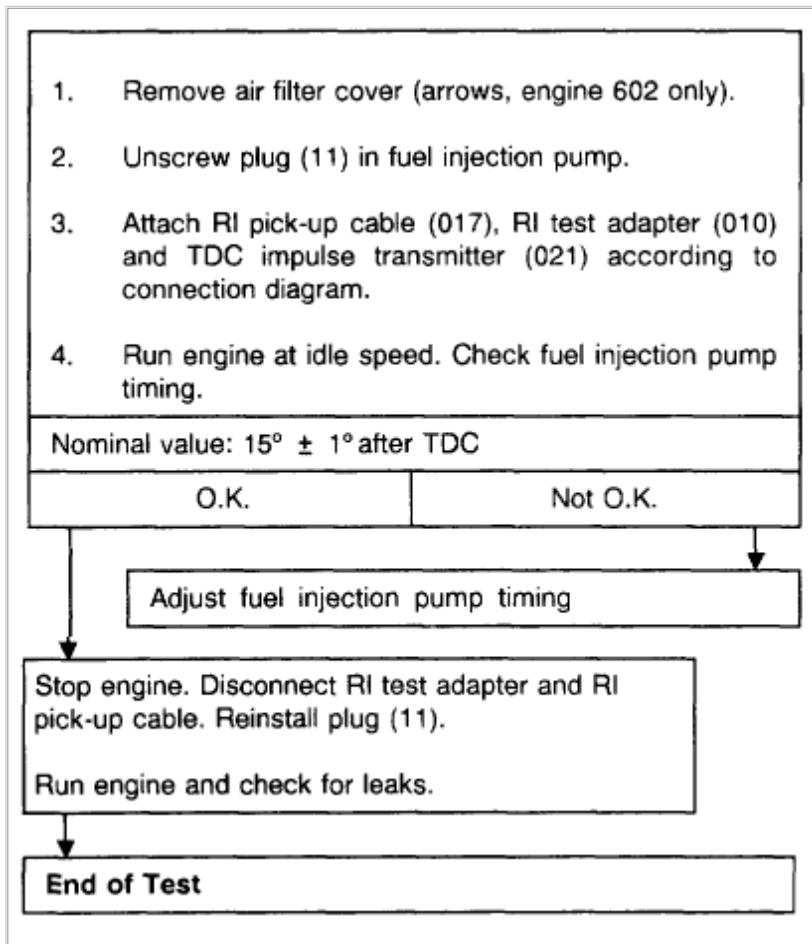
Engine analyzer

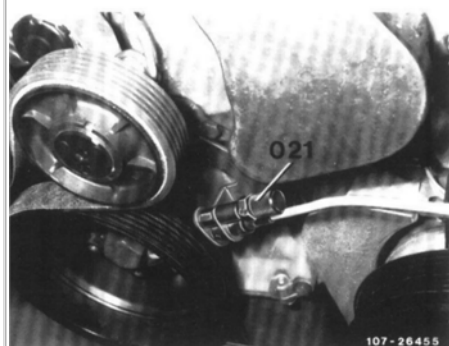
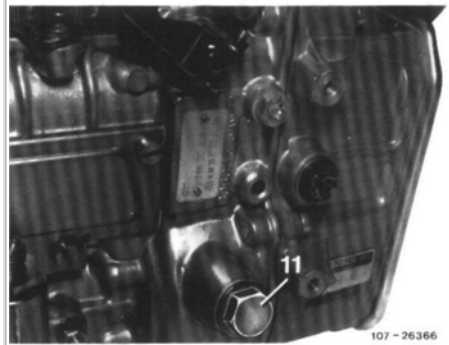
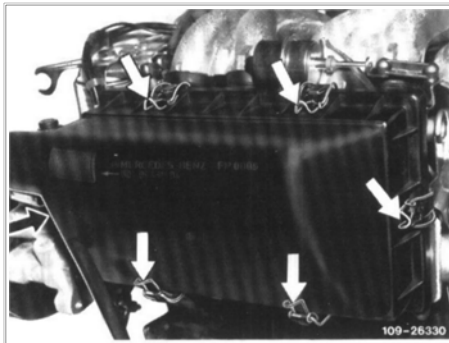
Bear DACE (Model 40-960); SUN EMT-1019/Master 3; SUN MCM-2110; SUN MEA-1500 MB



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Test

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