

[Select Vehicle](#) | [New TSBs](#) | [Technician's Reference](#)

Component Search:

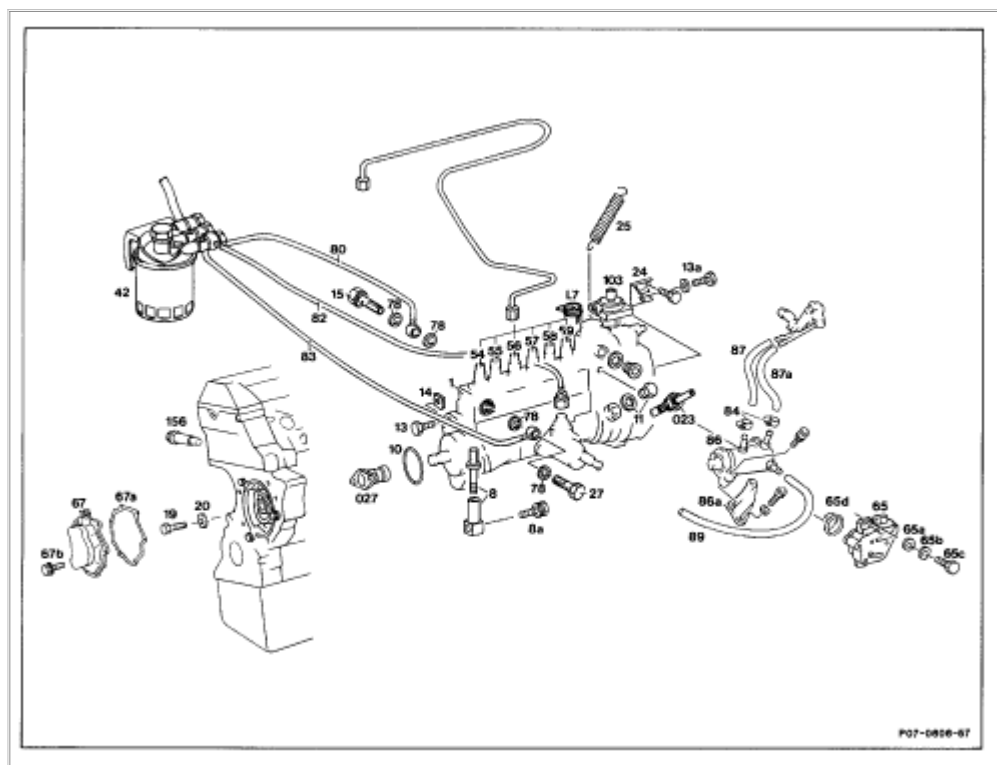
OK


[Conversion Calculator](#)
1987 Mercedes Benz 300TD (124 Chassis) L6-2996cc 3.0L DSL SOHC Turbo 603
[Vehicle Level](#) → [Powertrain Management](#) → [Fuel Delivery and Air Induction](#) → [Diesel MFI Pump](#) → [Service and Repair](#)
 → [Injection Pump Removal and Installation](#) ←

Injection Pump Removal and Installation

[Notes](#)

PRELIMINARY PROCEDURES



Zoom

Sized for Print

Remove bottom section of noise encapsulation.

Remove belt tensioning device.

Remove fan cowl and fan.

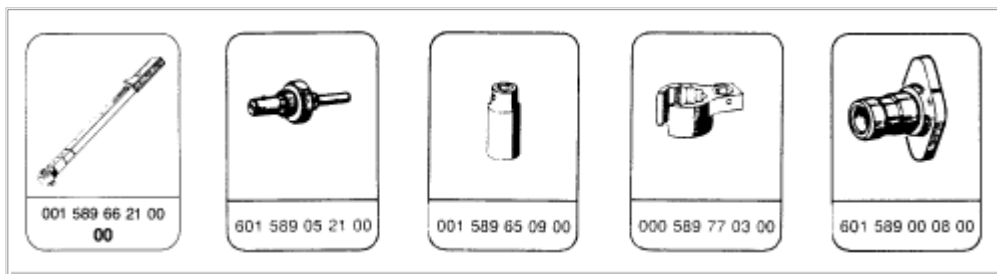
Remove vacuum pump (67). Replace gasket (67).

Install Assembly sleeve (067) with special tool 601 589 OS 14 00 so that engine can be turned over easily.(engines effective 09/89). Remove before installing vaccum pump.

Remove Radiator (Model 201.128 only).

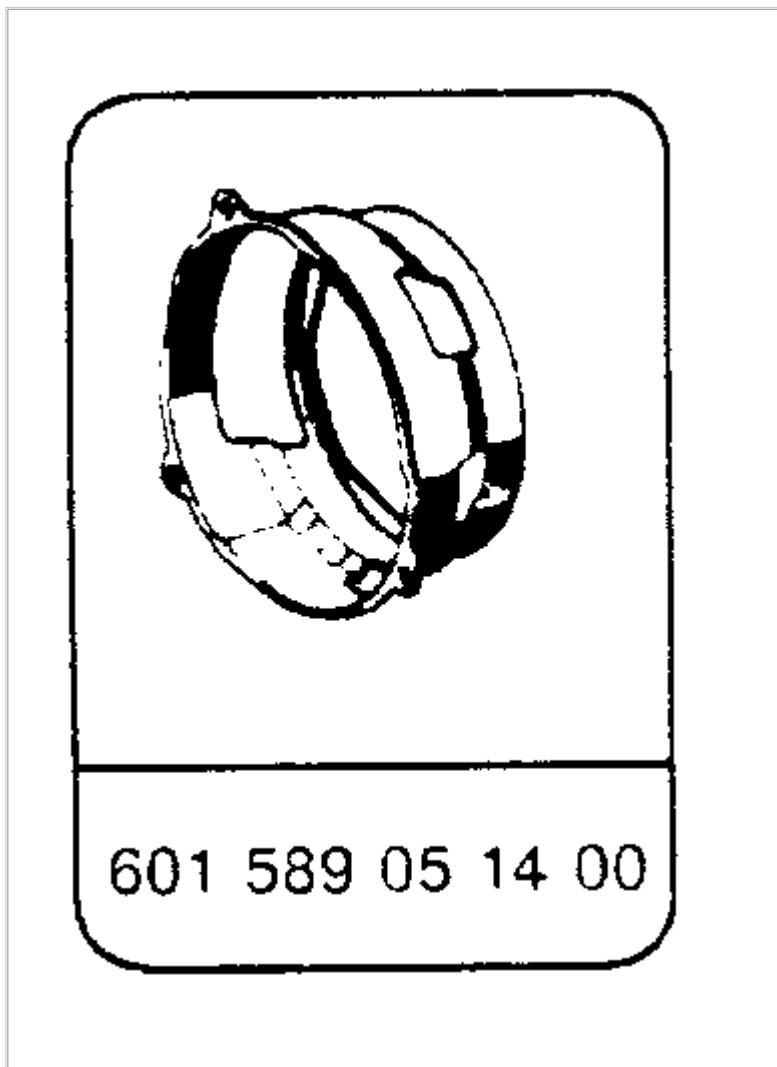
Remove Actuator of cruise control (Engine 603 only).

SPECIAL TOOLS



Zoom

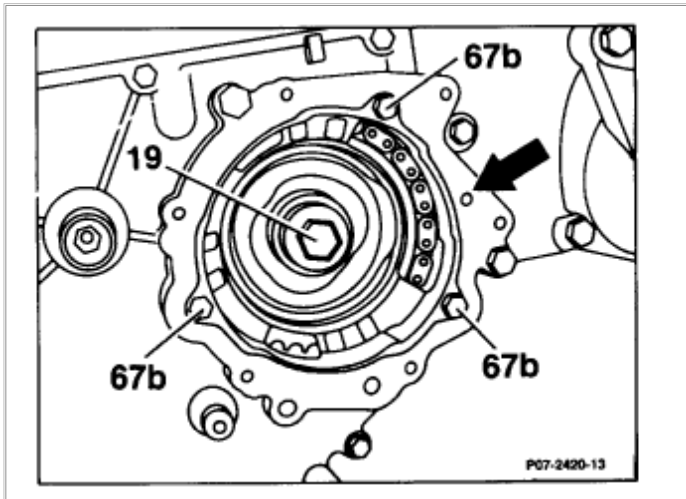
Sized for Print



Zoom

Sized for Print

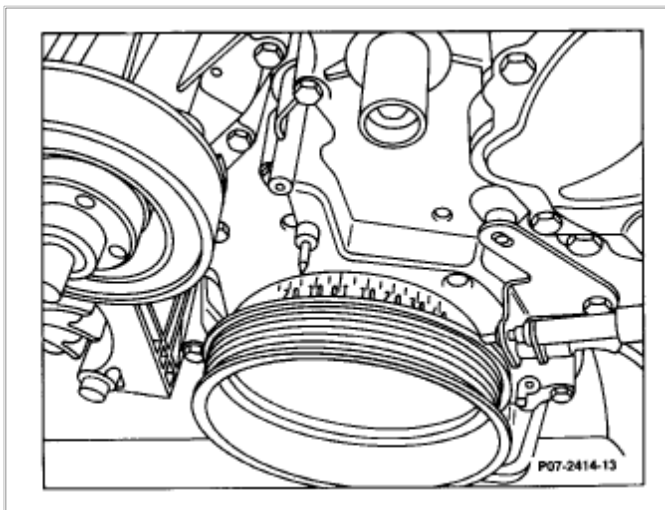
REMOVAL AND INSTALLATION

[Zoom](#)[Sized for Print](#)

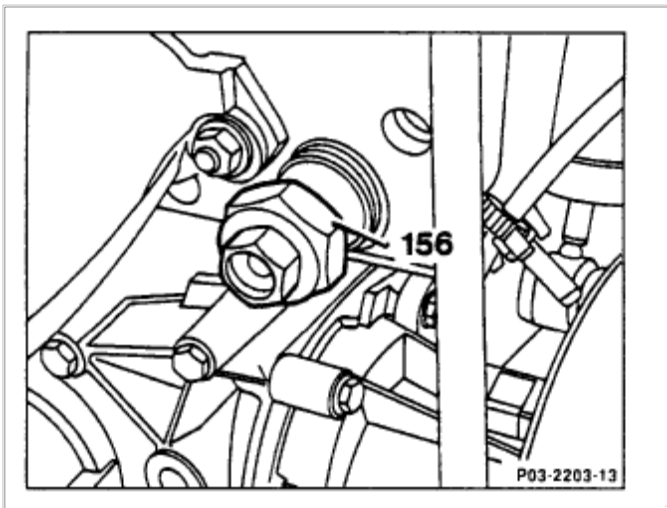
- 1 Loosen central fastening bolt (19), unbolt while holding crankshaft tight. Installation torque **40-50 Nm** .

Caution! Left-hand thread

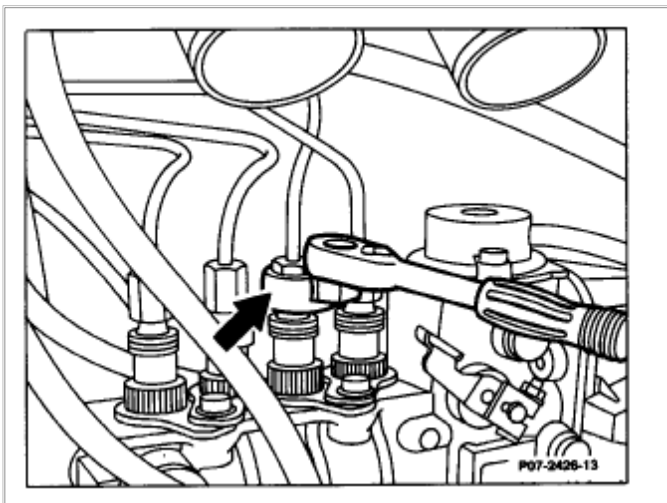
Mount assembly basket using bolts (67b), so that the engine can be cranked easily (on engines effective 09/89).

[Zoom](#)[Sized for Print](#)

- 2 Turn crankshaft in direction of rotation to **15° ATDC** of no.1 cylinder.

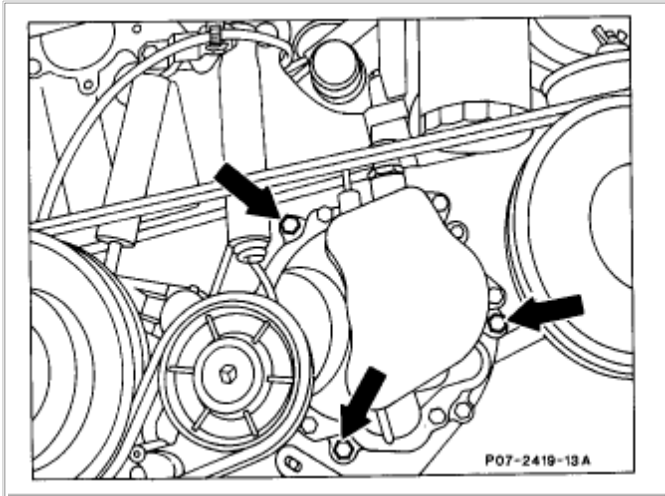
[Zoom](#)[Sized for Print](#)

- 3 Remove chain tensioner using special tool 001 589 65 09 00.

[Zoom](#)[Sized for Print](#)

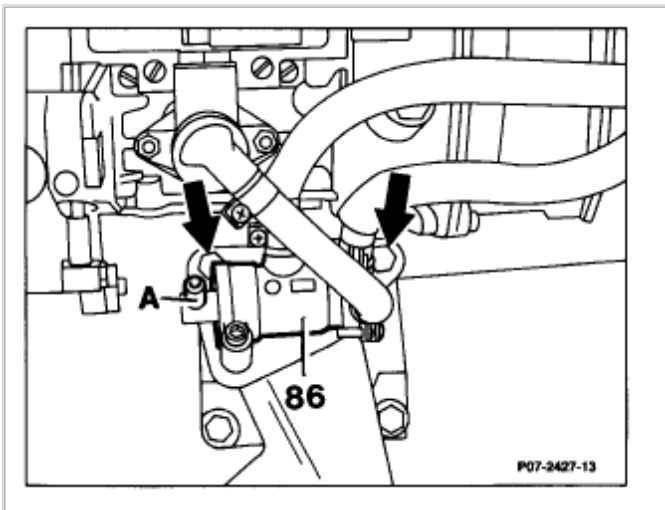
- 4 Detach injection and fuel lines at the injection pump using special tool 000 589 77 03 00 with 1/4" ratchet (arrow). Replace seals (78). Installation torque **10-20 Nm** .
- 5 Disconnect vacuum lines at vacuum unit for stop unit and vacuum control valve. Detach 2-pin connector at actuator (Y22) of electronic idle speed control.

- 6 Disconnect electric cables at control rod travel sensor (L7) and at actuator (Y22).
- 7 Disconnect pressure line at ALDA unit.
- 8 Detach accelerator control linkage at control lever and spring.
- 9 Remove vacuum control valve.

[Zoom](#)[Sized for Print](#)

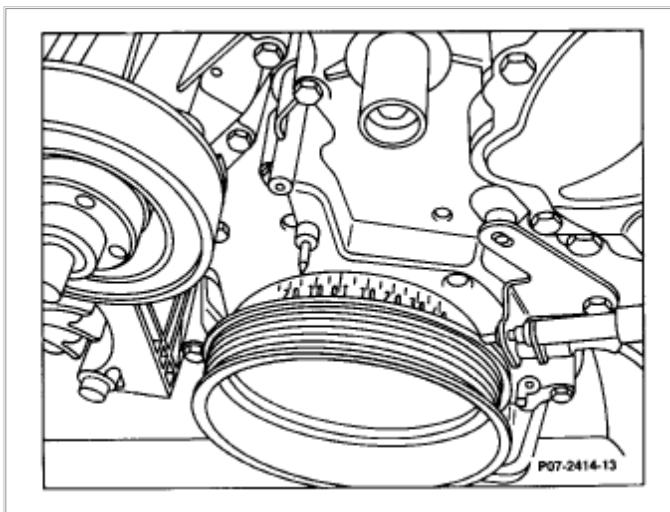
- 10 Remove injection pump; remove fastening bolts (arrows) and bolt on mounting bracket for this step. Withdraw injection pump to the rear, holding timing device in place. Installation torque **20-25 Nm** .

Replace O-ring (10). Remove start of delivery adjusting device(8); remove bolt (8a) for this step. Detach spring (25).



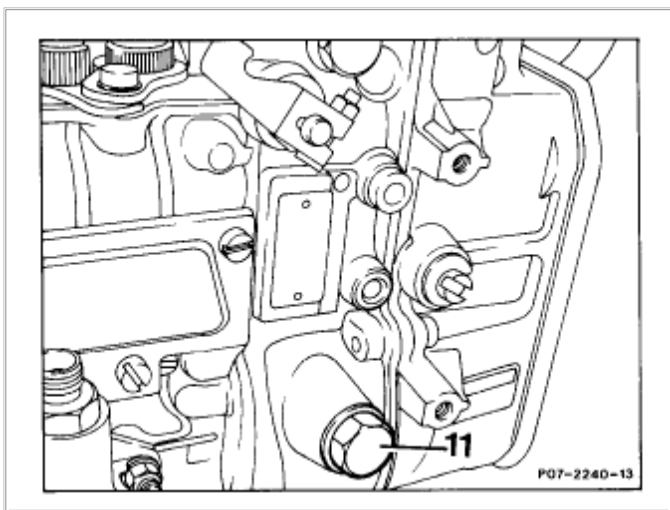
[Zoom](#)[Sized for Print](#)

- 11 Remove fuel thermostat (86) complete; remove bolts (arrows) for this step.

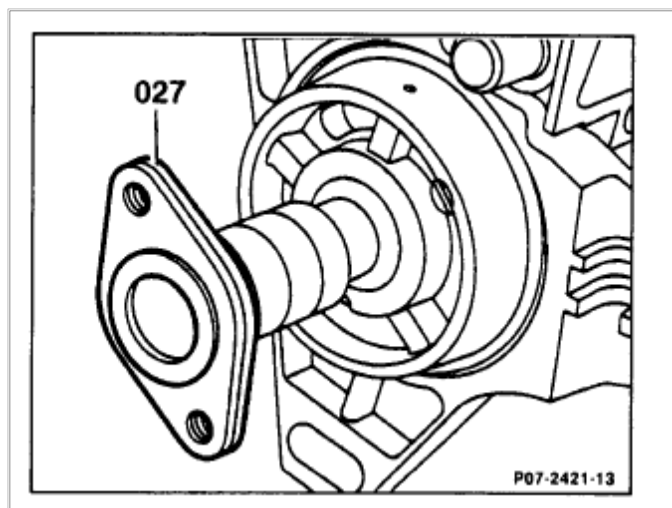
[Zoom](#)[Sized for Print](#)

- 12 Check whether the engine is positioned at **15° ATDC** of no.1 cylinder; adjust if necessary.

Caution! Engine must only be cranked in direction of rotation!

[Zoom](#)[Sized for Print](#)

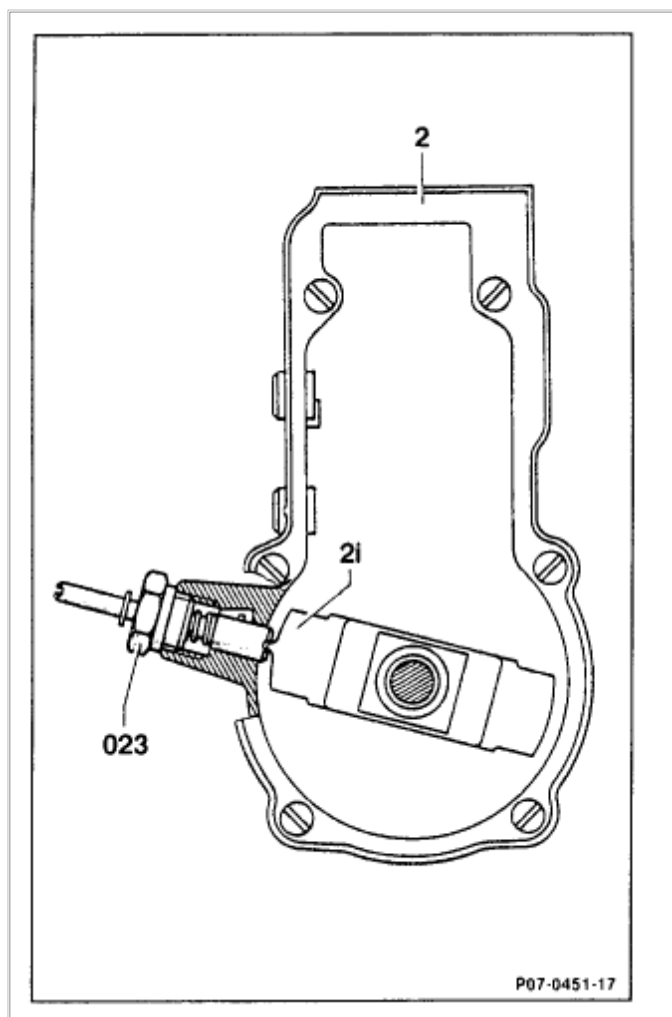
13 Unscrew plug (11).



Zoom

Sized for Print

14 Use serrated wrench, special tool 601 589 00 08 00 (027), to turn injection pump on the injection pump crankshaft until the lug of the governor is visible at the hole, i.e. push in locking bolt (023) in this position until it is felt to engage, and tighten by hand.

[Zoom](#)[Sized for Print](#)

Caution! Remove locking bolt, special tool 601 589 OS 21 00 (023), after installing injection pump, otherwise the injection pump will be damaged when starting the engine.

15 Reverse procedure to install.

Note: When starting engine, the injection system is automatically bled.

16 Check start of delivery; set start injection if necessary.

17 Install vacuum control valve and set.