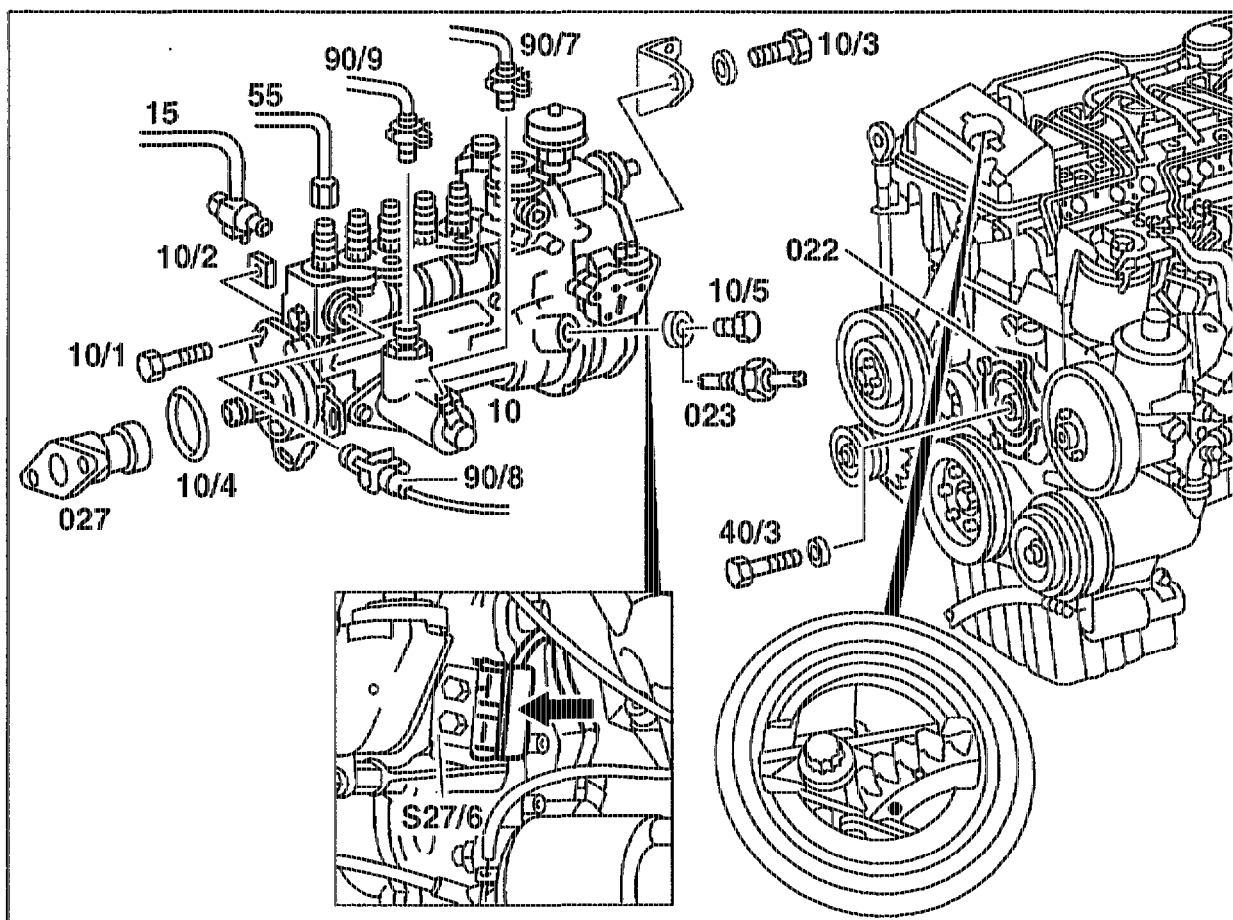


07.1-8410 Removing and installing injection pump

Preceding work:

Removing and installing belt tensioning device (13-0340).
 Removing and installing vacuum pump (43-610).

Operation no. of operation texts and work units or standard texts
 and flat rates:
 07-8410



P07-6412-57

Engine 605.911

Intake manifold remove, install, replace gasket (14-1310).

Engine 606.910

Variable resonance intake manifold remove, install, replace gasket (14-1961).



All models

Ground cable at battery disconnect, connect.
 Bottom part of noise encapsulation unbolt, bolt on.
 Assembly cage (022) install, remove.
 Special tool 601 589 05 14 00.
 Central securing bolt (40/3) unscrew, screw in.



"Left-hand thread"

Tightening torque 40-50 Nm.

Crankshaft	turn in direction of rotation $14^{\circ} + 0.5^{\circ}$ after ignition TDC of cylinder 1. To do this, open oil filler opening cap, close. Rotate crankshaft until the marking (punch point) on the inlet camshaft sprocket is visible through oil filler opening. Continue to turn crankshaft in direction of rotation to $14^{\circ} + 0.5^{\circ}$ after ignition TDC of cylinder 1. Special tool 001 589 65 09 00.
Chain tensioner	<p style="text-align: center;"></p> <p>Crank engine only in direction of rotation. remove, install (05-0310).</p>
Injection lines (55) at injection pump (10)	<p>unbolt, bolt on. Seal all connections. Special tool 000 589 77 03 00. Tightening torque 10-20 Nm as reference value.</p> <p style="text-align: center;"></p> <p>To avoid line fractures, the retaining clips must be installed as shown in the illustration (see notes).</p> <p>Note When removing an injection pipe, it is necessary to replace the complete retaining clips of the relevant pipe.</p>
All vacuum lines at injection pump	<p>detach, fit on.</p> <p>Note Pay attention to connection of vacuum line (07.1-0005).</p>
Coupling (arrow) at microswitch (S27/6)	unplug, plug in.
Vehicles with Tempomat cruise control	
Actuator of cruise control	remove, install (Repair Instructions Cruise control system 30-541).
Vehicles with atmospheric pressure-dependent full-load stop (ARA) unit	
Coupling of ARA actuator	unplug, plug in.
Vehicles with electronic idle speed control (ELR)	
Coupling of ELR actuator	unplug, plug in.
All models	
Overflow restriction (15)	unscrew, screw on.

Fuel lines (90/7, 90/8, 90/9)	detach, fit on. To do this, release quick-lock, secure. Examine O-rings, replace if necessary. Ensure correctly seated.
Bolts (10/1)	unscrew, screw in. Hold square nuts (10/2) tight. Tightening torque 25 Nm as reference value.
Bolt (10/3)	unscrew, screw in.
Injection pump (10)	pull out to the rear, insert. To do this, counter-hold injection timing device.

Installation note

Slacken screw plug (10/5), screw in. Turn injection pump with notched wrench (027) 601 589 00 08 00 and block with blocking bolt (023) 601 589 05 21 00, unscrew blocking bolt. Check whether engine is positioned at $14^\circ + 0.5^\circ$ after ignition TDC, correct if necessary.

If the injection pump is replaced, adjust microswitch before installing (07.1-8317).



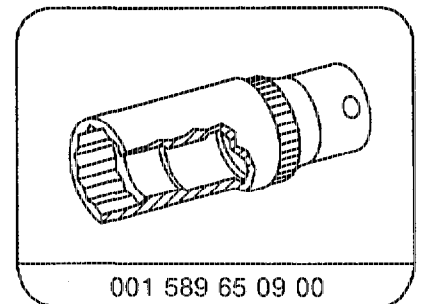
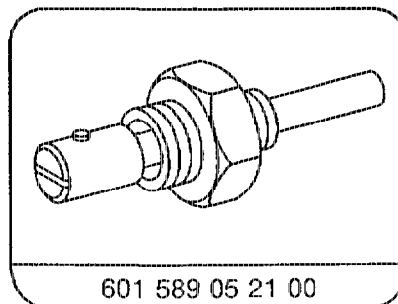
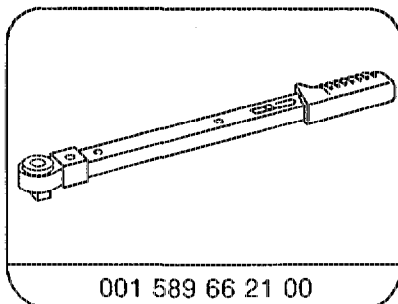
Crank engine only in direction of rotation. Pay attention to notes (blocking bolt)! replace and oil before installing the in-line injection pump.

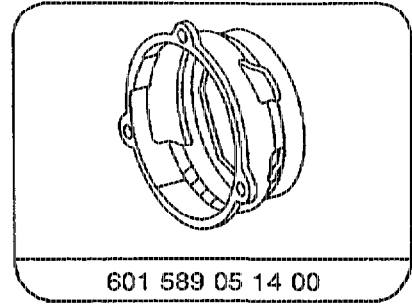
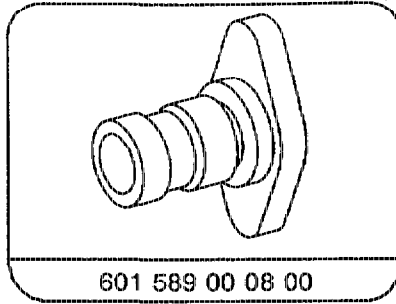
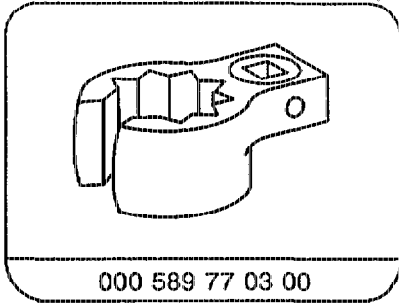
O-ring (10/4)	replace and oil before installing the in-line injection pump.
Start of delivery	check, adjust (07.1-8244 or 07.1-8300).
Engine oil level	check, adjust to correct level if necessary.
Leaks at all connection points	check with engine running.

Note

The fuel system is bled automatically when the engine is started.

Special tools

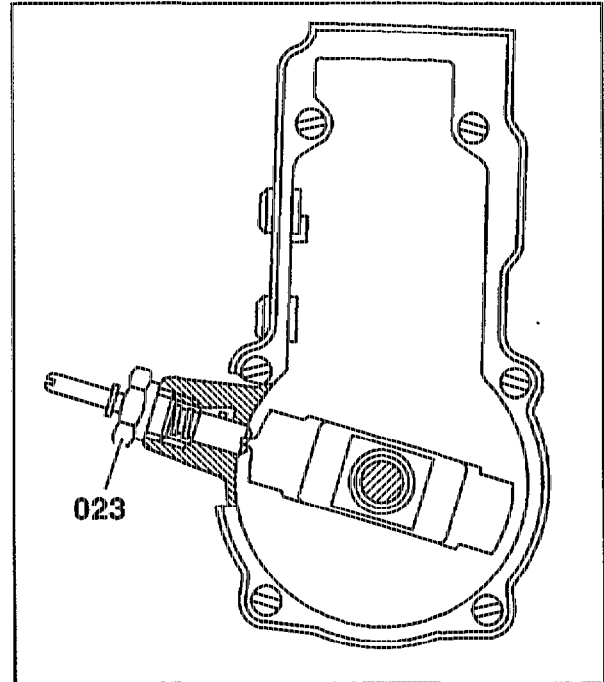




Notes



Remove blocking bolt (023) after installing the injection pump otherwise the injection pump will be damaged when engine is started.



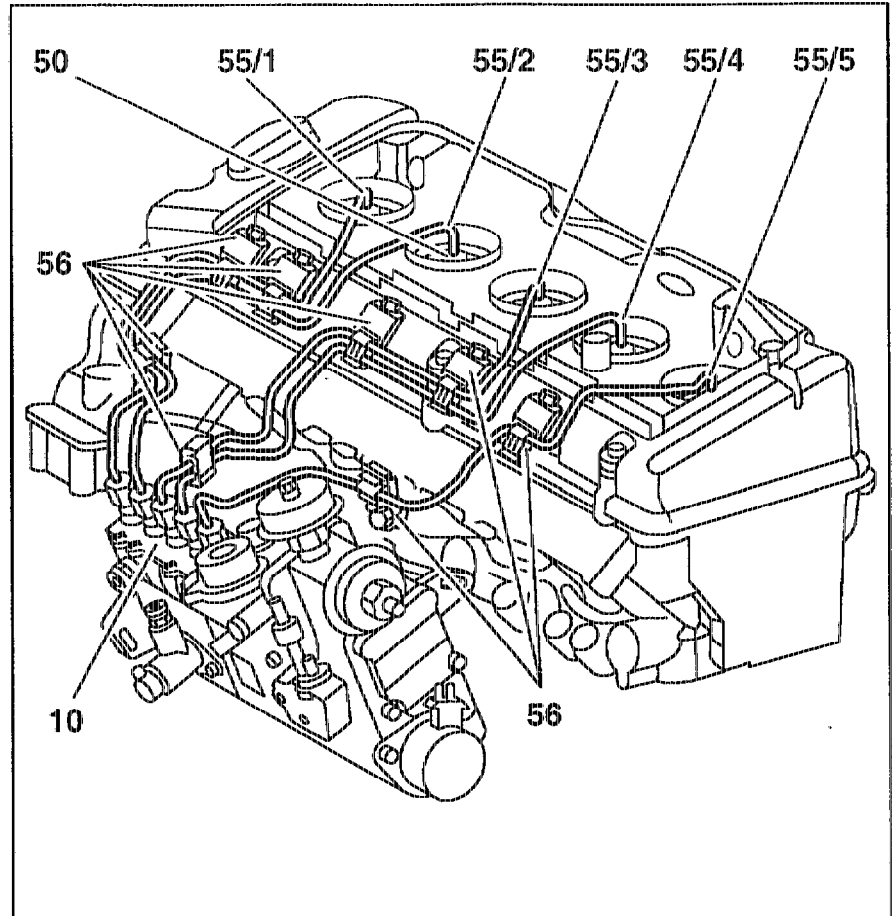
023 blocking bolt
Special tool 601 589 05 21 00

P07-6106-15

The retaining clips (56) must be installed in accordance with the illustration in order to avoid line fractures.

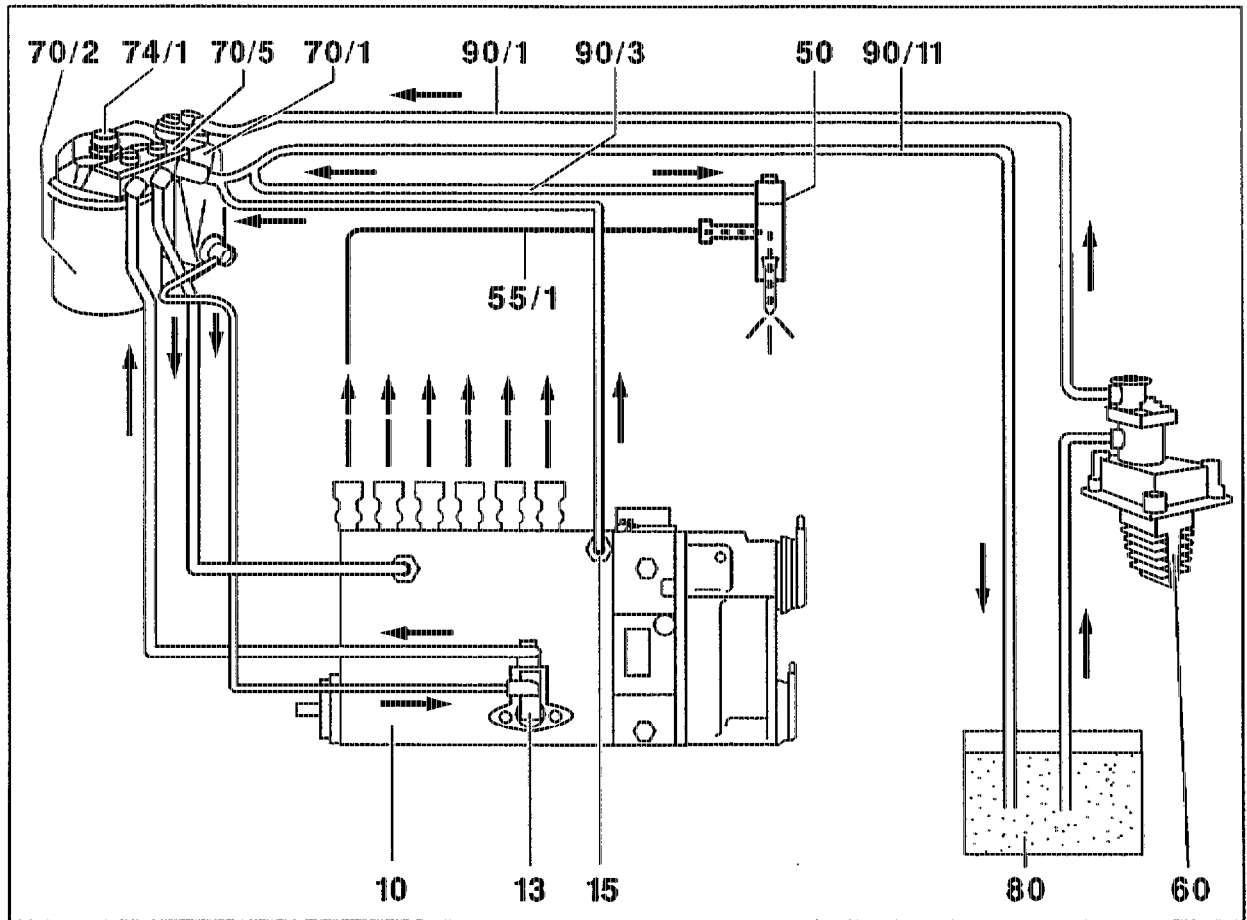
Shown on engine 605.911

- 10 In-line injection pump
- 50 Injection nozzle
- 55/1 Injection line, cylinder 1
- 55/2 Injection line, cylinder 2
- 55/3 Injection line, cylinder 3
- 55/4 Injection line, cylinder 4
- 55/5 Injection line, cylinder 5
- 56 Retaining clips



P07-6408-37

Fuel low-pressure circuit



P07-6210-57

Shown on engine 606.910

10	Injection pump	70/2	Fuel full-flow filter
13	Fuel pump	70/5	Restriction drilling in top part of fuel filter
15	1.5 mm dia. overflow restriction with non-return valve	74/1	Cut-off
50	Nozzle holder combination	80	Fuel tank
55/1	Injection line, cylinder 1	90/1	Fuel feed line
60	Fuel heat exchanger	90/3	Leak oil hoses
70/1	Fuel prefilter	90/11	Fuel return hose

Overflow valve modified. Overflow valve with O-ring for increasing leaktightness.

Production breakpoint: as of September 1993

Model	Engine	Engine end no. manual transmission	Engine end no. automatic transmission
124.104/107/126/129/ 186	605.911	004876	001387
124.131/191	606.910	001582	001642

Fuel hose from top part of oil filter to return flow pipe modified. Non-return valve in fuel return flow hose (immobilizer).

Production breakpoint: as of March 1994

Model	Engine	Engine end no. manual transmission	Engine end no. automatic transmission
124.104/107/126/129/ 186	605.911	016671	006210

Production breakpoint: as of April 1994

Model	Engine	Engine end no. manual transmission	Engine end no. automatic transmission
124.131/191	606.910	005094	008799

Fuel hose from top part of oil filter to return flow pipe modified to improve starting.

Production breakpoint: as of January 1995

Model	Engine	Engine end no. manual transmission	Engine end no. automatic transmission
124.104/107/126/129/ 186	605.911	029015	010922

Production breakpoint: as of February 1995

Model	Engine	Engine end no. manual transmission	Engine end no. automatic transmission
124.131/191	606.910	008830	017680

Segment flange of injection timing device modified from forging to sintered part. New injection timing device is installed with washer.

Production breakpoint: as of June 1994

Model	Engine	Engine end no. manual transmission	Engine end no. automatic transmission
124.104/107/126/129/ 186	605.911	020485	007642
124.131/191	606.910	005998	011023

Fuel feed pipe from fuel filter to injection pump converted from plug connection to screw attachment.

Production breakpoint: as of September 1995

Model	Engine	Engine end no. manual transmission	Engine end no. automatic transmission
124.104/107/126/129/ 186	605.911	038663	015361
124.131/191	606.910	010216	021123

Shut-off valve modified.

Production breakpoint: as of November 1995

Model	Engine	Engine end no. manual transmission	Engine end no. automatic transmission
124.104/107/126/129/ 186	605.911	ab 039808 bis 039903	ab 015841 bis 015862
124.131/191	606.910	ab 010338 bis 010343	ab 021697 bis 021713

Bolt + washer for attaching injection pump
modified for tolerance reasons.

Production breakpoint: as of December 1995

Model	Engine	Engine end no. manual transmission	Engine end no. automatic transmission
124.104/107/126/129/ 186	605.911	040286	016066
124.131/191	606.910	010398	021894