

07.4–130 Checking delivery pressure and delivery capacity of fuel pump

Test values

Measuring specification at idle and with delivery pump energized		min 11.5 volts
Delivery pressure in ring line	Measuring point	in front of cold starting valve in ring line
	bar gauge pressure	2.0 + 0.1
Delivery capacity ¹⁾	Measuring point	following pressure regulator in return line
	1 litre	in max 30 seconds

¹⁾ When measuring delivery capacity, the fuel tank should be filled to at least 50%.

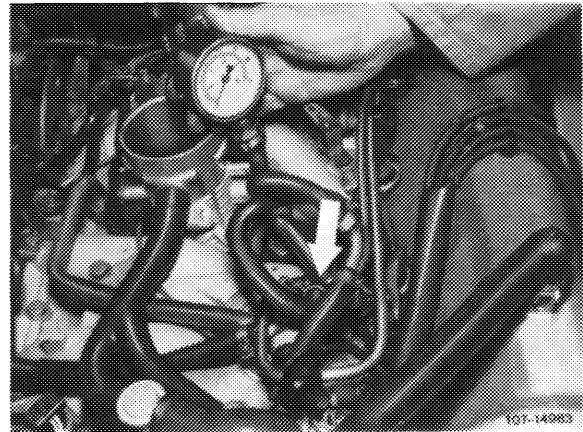
Conventional tools

Voltmeter, measuring glass or measuring cup 1 litre, stop watch

Checking delivery pressure

1 Connect pressure gauge in front of cold starting valve in ring line. For this purpose, reduce fuel pressure for **safety reasons**. Pull electrical plug connection from cold starting valve. Connect cold starting valve with separate cable to B+ and ground for approx. 20 seconds.

Then return plug connection to cold starting valve.

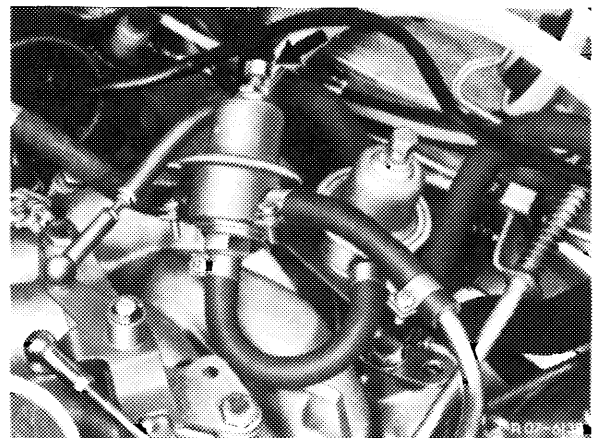


2 Run engine at idle. Check fuel pressure.

Nominal value 2.0 + 0.1 bar gauge pressure. Set pressure with adjusting screw (arrow) on pressure regulator, if required.

If, after a slight turning of adjusting screw, no difference in pressure is observed, renew pressure regulator.

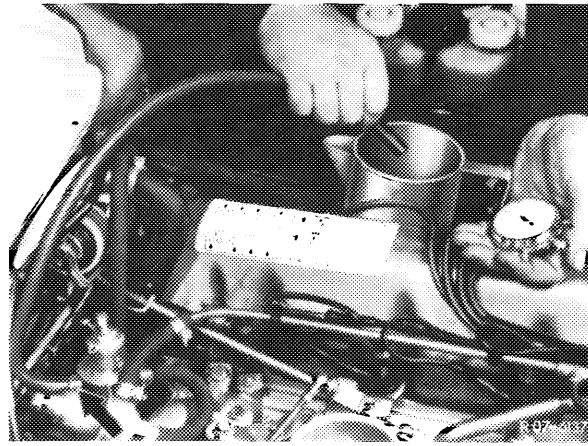
3 Prior to removing pressure gauge, reduce fuel pressure as described under item 1.



Checking delivery capacity

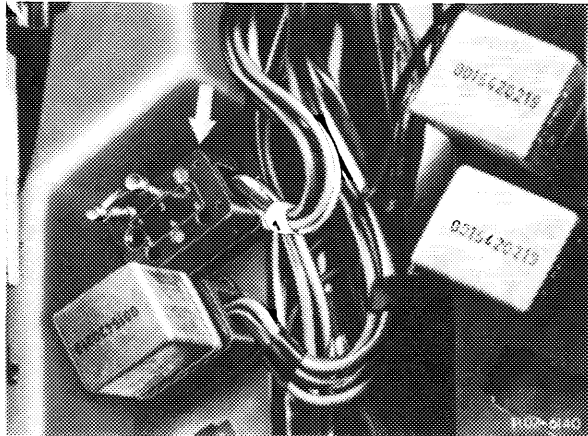
4 Disconnect fuel return hose after damper reservoir.

5 When measuring, connect fuel return hose (arrow) to damper reservoir.



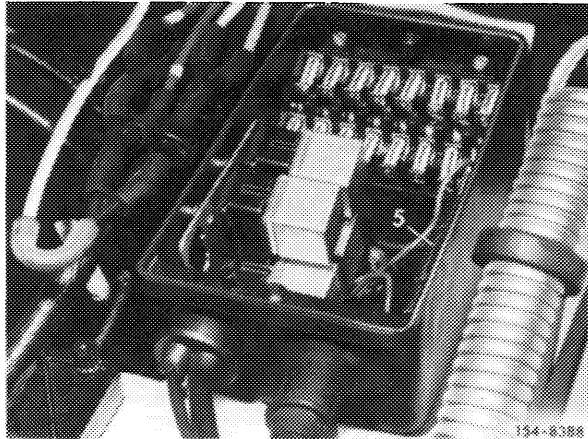
6 Pull-off fuel pump relay (arrow) and bridge the two poles 1 and 3. This will energize the fuel pump which will then run when the ignition is switched on.

For this purpose, on model 107, remove cover and control unit underneath glove box. On model 116, the fuel pump relay is mounted in fuse box.



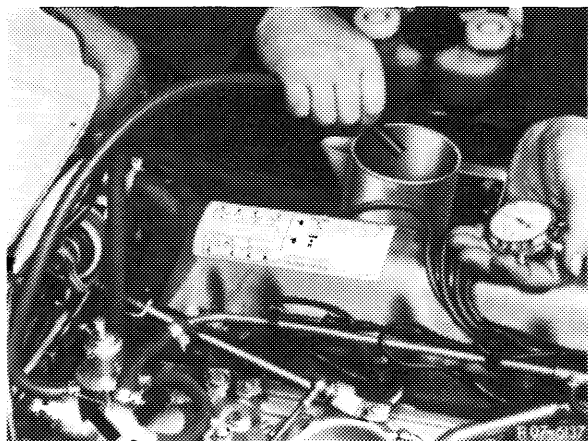
Model 107

Note: The cable harness for fuel pump relay is marked with an 1.



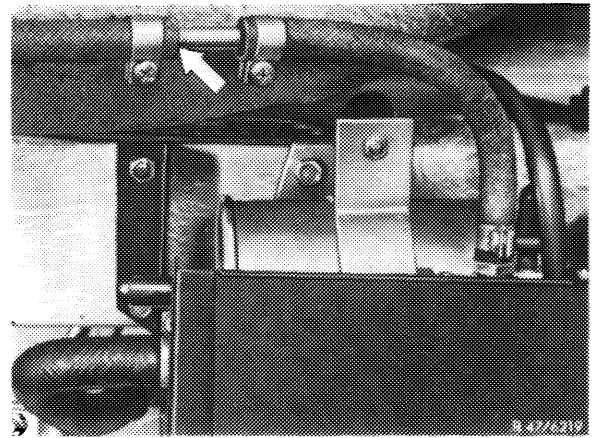
Model 116

7 Hold hose end into measuring cup and switch-on ignition for 30 seconds.



8 If the delivery volume is below 1 litre/30 seconds, check fuel lines for restrictions (squeezed lines) and fuel filter for passage first. For this purpose loosen pressure hose on fuel filter and connect directly to fuel feed line (arrow).

If the delivery volume is still not enough, renew fuel pump.



9 Put back relay, mount control unit and cover in vehicle.

10 Mount fuel hoses, run engine and check for leaks.