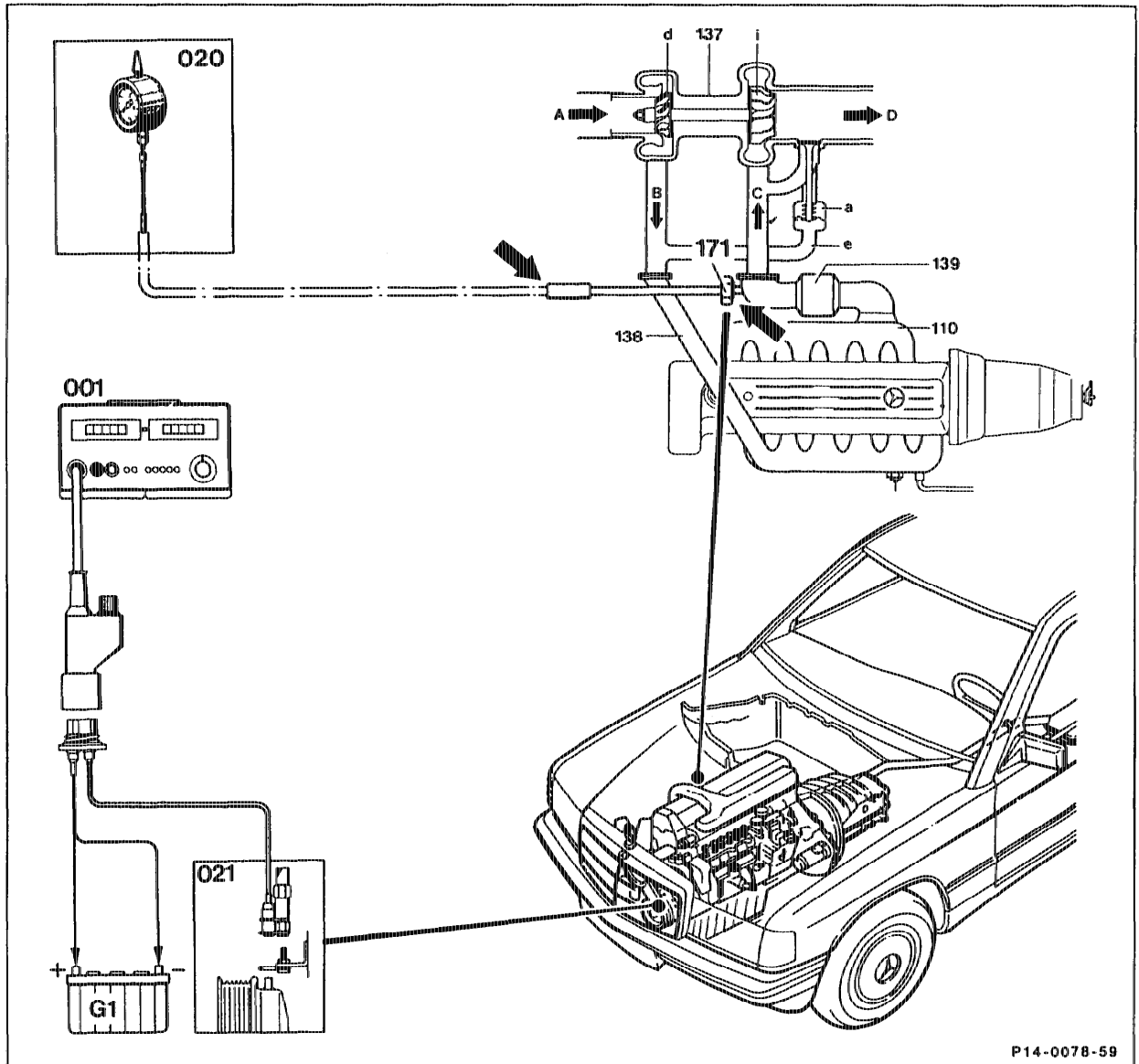


# 14-0150 Testing Exhaust Backpressure (USA)

Preceding work:

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



P14-0078-59

- 110 Exhaust manifold
- 137 Exhaust gas turbocharger
- 138 Charge air pipe
- a Charge pressure control valve
- d Compressor wheel
- e Control line
- i Turbine wheel

- A Compressor inlet (fresh air)
- B Compressor outlet (precompressed air)
- C Exhaust gases to turbine wheel
- D Exhaust outlet

Digital tester (001) and TDC pulse generator (021) .....	connect, disconnect.
Screw plug (171) .....	remove, install.
Tester (020) with connection pipe .....	connect to exhaust manifold.
Engine .....	raise to operating temperature (coolant temperature 60–80 °C).
Selector lever .....	move to position "P".
Engine .....	run up to 4000 rpm. Take test reading.
	<b>Specification: &lt; 2.0 bar.</b>
	Actual value > 2.5 bar. Perform regeneration of trap oxidizer as follows: with selector lever in position "2", run car on dynamometer or on road for a total of 2 minutes at full load. Test exhaust backpressure at 4000 rpm in position "P".
	<b>Specification: &gt; 1.5 bar.</b>
	Repeat regeneration (max. once) if specified value is not reached, renew trap oxidizer and perform EDS brief test.

**Note**

If the customer returns after a relatively short time with the same complaint, determine whether there are any special driving conditions (e.g. frequent short journeys, particularly in colder climatic conditions or with prolonged idling).



Check the following before renewing the trap oxidizer:

- 1 EDS brief test (07.1-1120)
- 2 Full throttle stop on injection pump (30-1010)
- 3 Air cleaner element
- 4 Charge pressure (09-5911)
- 5 Delivery of fuel pump (07.1-5701)
- 6 Fuel filter and pre-filter (07.1-5563)
- 7 Start of delivery (07.1-8240 or 8244)

#### Note

Under normal driving conditions the test reading of the exhaust backpressure is approx. 2.0 bar.

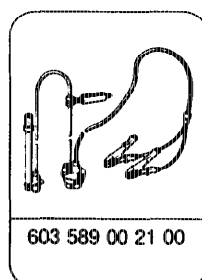
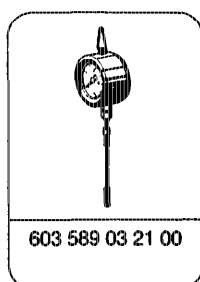
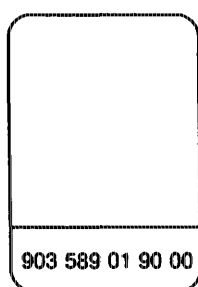
#### Test data

---

Selector lever in position "P"	Coolant temperature 60-80 °C	At 4000 rpm approx. 2.0 bar
--------------------------------	------------------------------	--------------------------------

---

#### Special tools



#### Commercially available tester

---

Designation	e. g. make, order no.
Digital tester	Sun, EMT-1019/Master 3, Sun, MCM-2110. All-Test 3610-MB

---