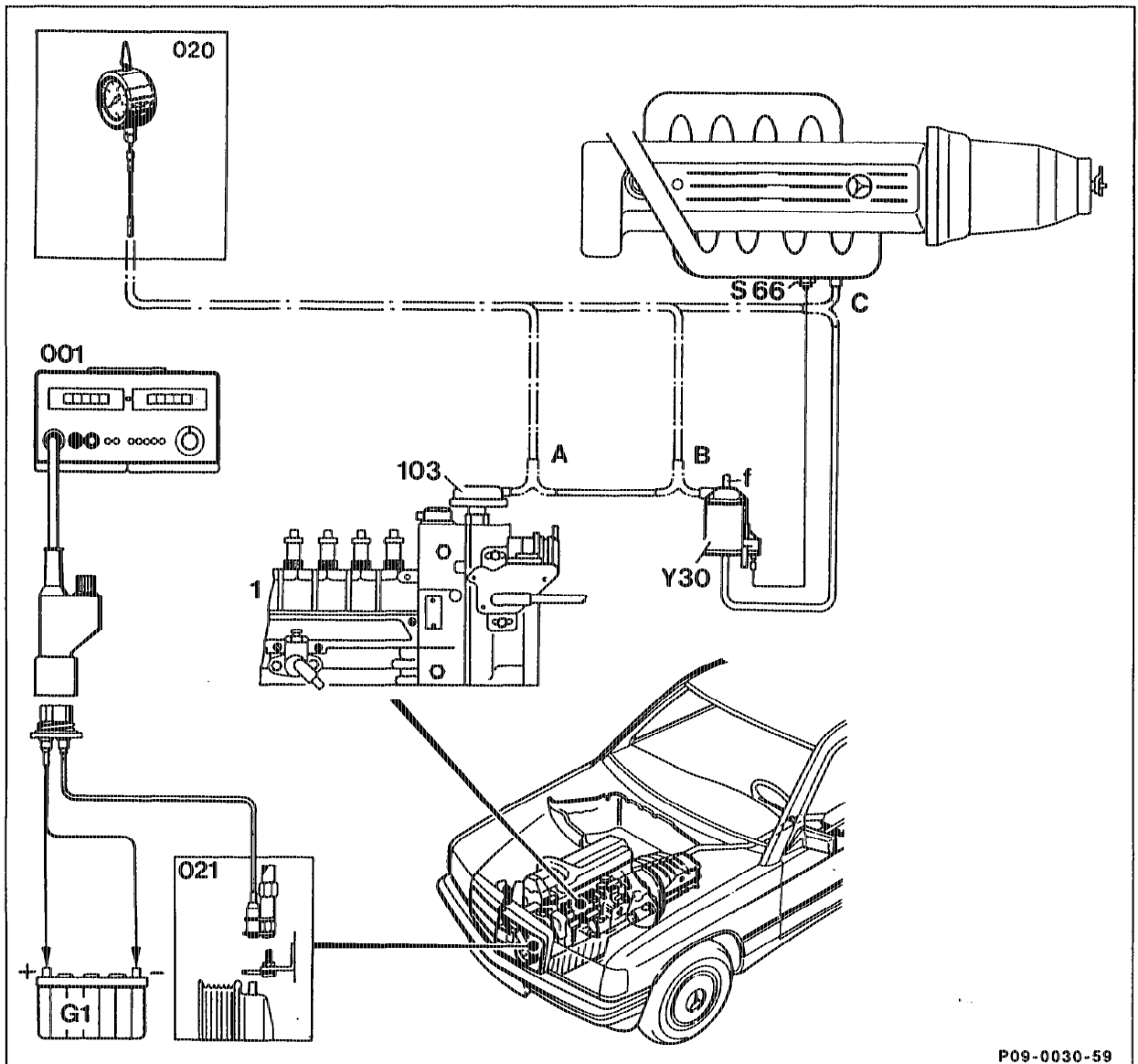


09-5911 Testing Exhaust Gas Turbocharger

Operation no. of operation texts and work units or standard texts and flat rates: 09-5911

A. Engines with engine overload protection



P09-0030-59

- | | |
|---------------------------------------|---|
| Tester (001) | connect, disconnect. |
| Pulse generator (021) | connect, disconnect. |
| Tester (020) with Y distributor | connect to measuring point "A" and test boost pressure. |
| Tester (020) with Y distributor | connect to measuring point "B" and test boost pressure. |

Tester (020) with Y distributor connect to measuring point "C" and test boost pressure.
 Specification: 0.85–0.95 bar at 4000 rpm full load in drive position "3".

Note

The test can be performed on the dynamometer or on the road.

If the specified boost pressure is not achieved, check the following:

Connection line from boost pressure control valve to compressor housing.

Engine overload protection switchover valve (09–250).

White vacuum line and rubber connections.

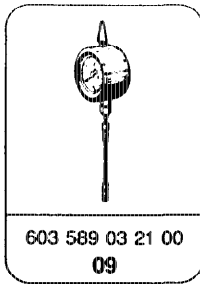
If all parts are in order, replace the exhaust gas turbocharger.

Test data

Engine	Boost pressure at n = 4000 rpm full load in drive position "3", in bar		Reduction in boost pressure as of engine end no.	
	up to 08/91 or Model Year 1991	as of 09/91 or Model Year 1992	manual transmission	automatic transmission
602.961	0.85–0.95	0.75–0.85	4831	9157
602.962	0.85–0.95	0.75–0.85	10588	8842
603.960	0.85–0.95	0.75–0.85	–	035636
603.963	0.85–0.95	0.75–0.85	–	031125
603.960	0.85–0.95	0.75–0.85	–	035636



Special tool

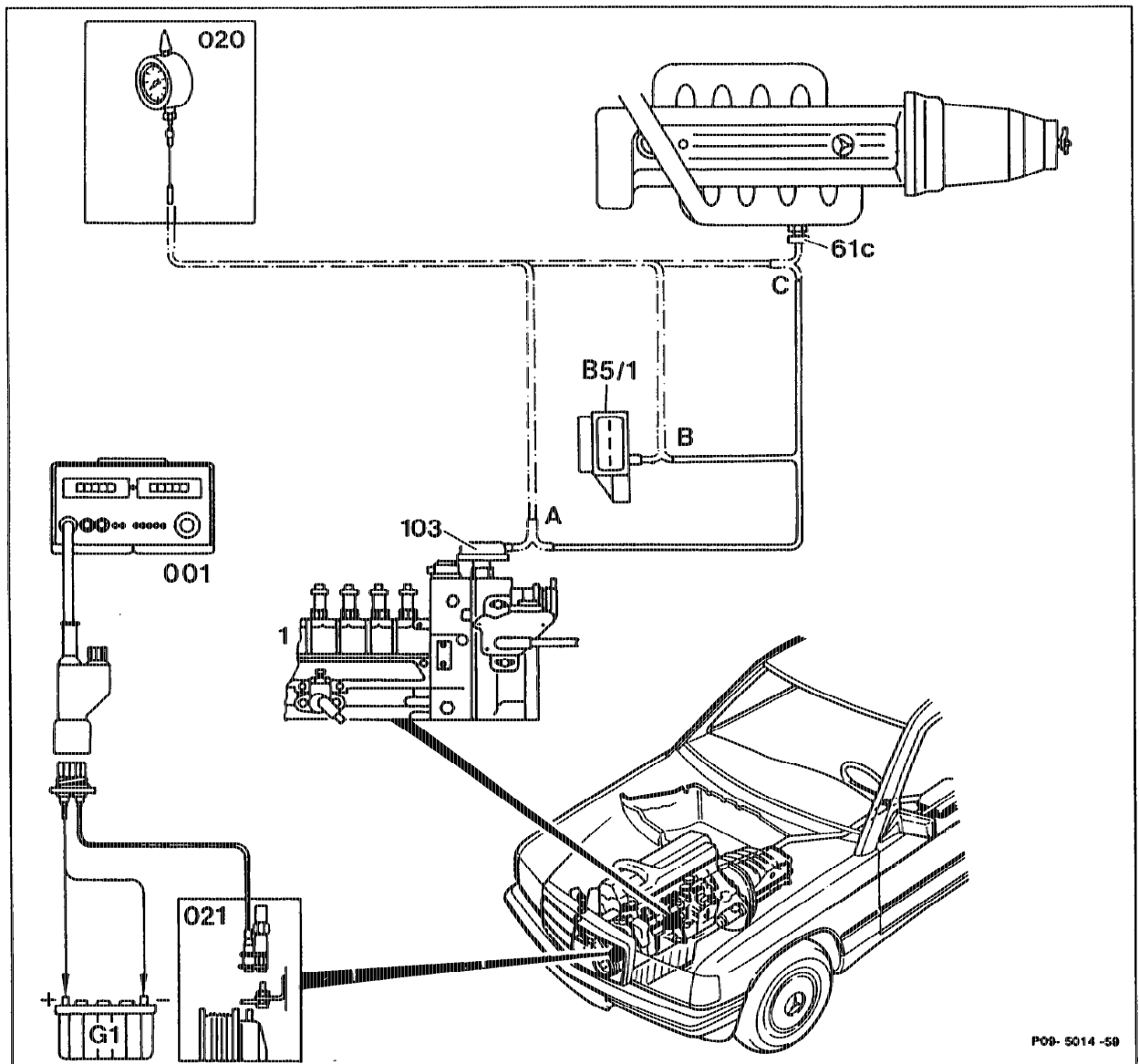


Commercially available tools and testers

Designation	e. g. make, order no.
Digital tester (or tachometer fitted to vehicle)	Bosch, MOT 002.01 Sun, DIT 9000 Sun, FMT-1019/Master 3, Sun, MCM-2110, All-Test 3610-MB



B. Engines without engine overload protection



POB- 5014 -50

Tester (001)	connect, disconnect.
Pulse generator (021)	connect, disconnect.
Tester (020) with Y distributor	connect to measuring point "A" and test boost pressure.
Tester (020) with Y distributor	connect to measuring point "B" and test boost pressure.
Tester (020) with Y distributor	connect to measuring point "C" and test boost pressure.

Specification: 0.75–0.85 bar at 4000 rpm full load in drive position "3".

Note

The test can be conducted on the dynamometer or on the road.

If the specified boost pressure is not achieved, check the following:

White vacuum line and rubber connections.

EDS pressure sensor (B5/1).

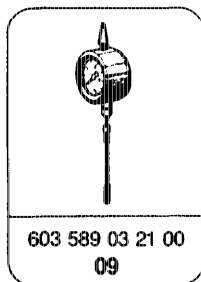
Restriction (61c).

If all parts are in order, replace the exhaust gas turbocharger.

Test data

Boost pressure at n = 4000 rpm full load in drive position "3"	0.75–0.85 bar
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Special tool



Commercially available tools and testers

Designation	e. g. make, order no.
Digital tester (or tachometer fitted to vehicle)	Bosch, MOT 002.01 Sun, DIT 9000 Sun, FMT-1019/Master 3, Sun, MCM-2110, All-Test 3610-MB
