

Electrical Test Program – Preparation for Test

Preliminary work:

Diagnosis - Diagnostic Trouble Code (DTC) Memory 12

- Fuses OK.
- Battery voltage 11–14 Volts (**always connect battery charger when working on the soft top**).
- RB control module **must** release soft top for operation (indicator lamp in RB switch should not blink).
If soft top does not release, see DTC 23, in 12.
- In DTC memory, no DTC's (i.e.: 19, 21, 24 - 30) which could prevent soft top operation can be stored, these must be cleared from memory.
If a stored DTC cannot be cleared from memory, repair defect.
- Review entire 11.2 section before performing test.

Note:

Connect yellow wire from impulse counter scan tool to

Socket 10 Model 129.06 (X11/4, 16-pole)

Socket 21 Model 129.07 (X11/4, 38-pole)

See Connection Diagram – Impulse Counter Scan Tool in section 0.

CAUTION!

Note regarding limit switch testing:


1. Ignition: **OFF**
2. Bridge sockets 1 and 3 of connector (X11/12) in passenger footwell (21, Figure 1).
3. Ignition: **ON**
4. Remove bridge.


Electrical wiring diagrams:


Electrical Troubleshooting Manual, Model 129.

CAUTION!

The test in the next section (23) calls for the connection of the socket box to the power soft top control module in 3 different ways. Connections are distinguished as connections made to the power soft top control module connector X, Y or Z. These are indicated in the test as follows:

X  indicates that the socket box should be connected according to Connection Diagram X (22, Figure 1)

Y  indicates that the socket box should be connected according to Connection Diagram Y (22, Figure 2)

Z  indicates that the socket box should be connected according to Connection Diagram Z (22, Figure 3)

Note regarding connecting socket box to soft top control module:

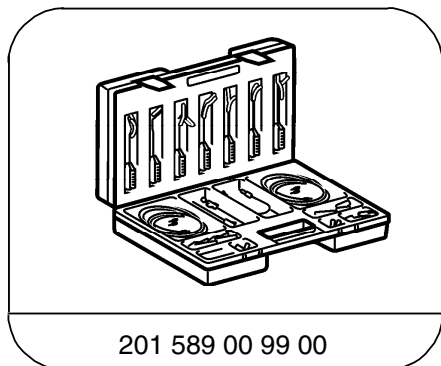
Ignition: **OFF**

Disconnect connector (X, Y, Z) from control module.

Connect socket box.

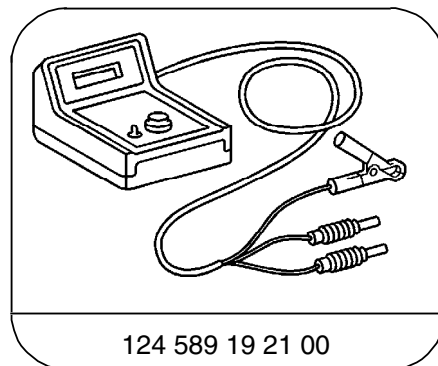
Electrical Test Program – Preparation for Test

Special Tools



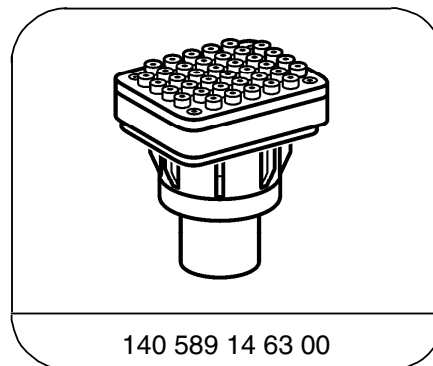
201 589 00 99 00

Electrical connecting set



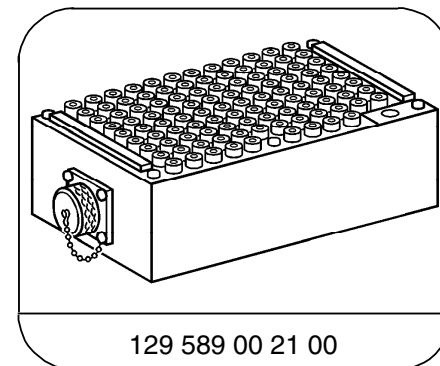
124 589 19 21 00

Pulse counter



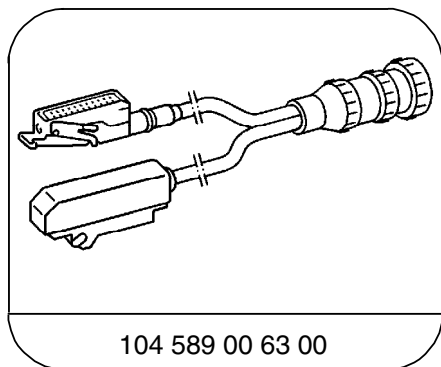
140 589 14 63 00

Adapter



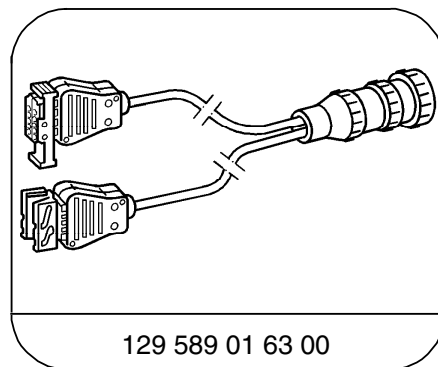
129 589 00 21 00

126-pin socket box



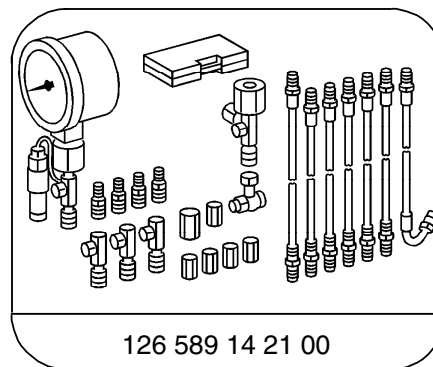
104 589 00 63 00

Test cable



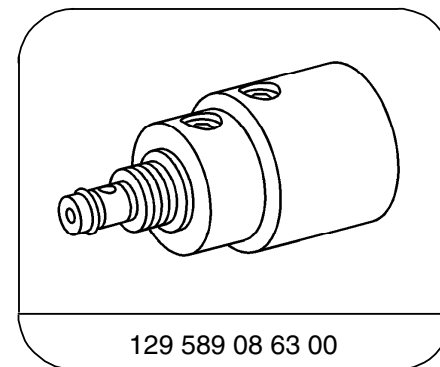
129 589 01 63 00

12-pin test cable



126 589 14 21 00

Tester

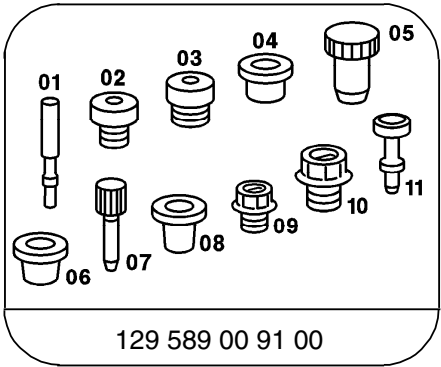


129 589 08 63 00

Check valve

Electrical Test Program – Preparation for Test

Special Tools



Set of plugs

Test equipment; See MBUSA Standard Service Equipment Program

Description	Brand, model, etc.
Digital multimeter	Fluke models 23, 77 III, 83, 85, 87
Battery charger	Local purchase

Electrical Test Program – Preparation for Test

Connection Diagram – Socket Box with Connector X

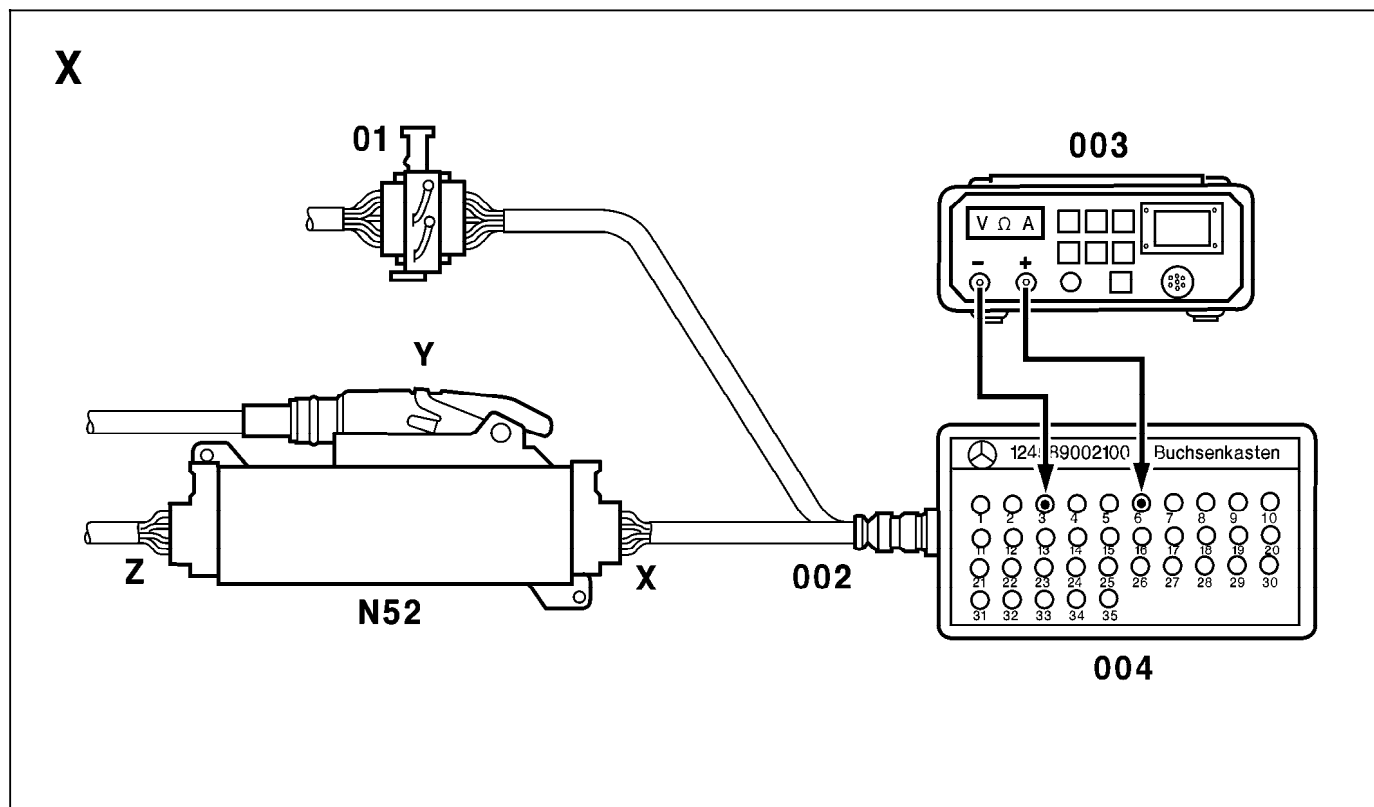


Figure 1

- 01 Connector, 12-pole (vehicle wiring harness)
- 002 Test cable, 12-pole 129 589 01 63 00
- 003 Multimeter
- 004 Socket box
- N52 Power soft top control module

P77.39-0274-05

Electrical Test Program – Preparation for Test

Connection Diagram – Socket Box with Connector Y

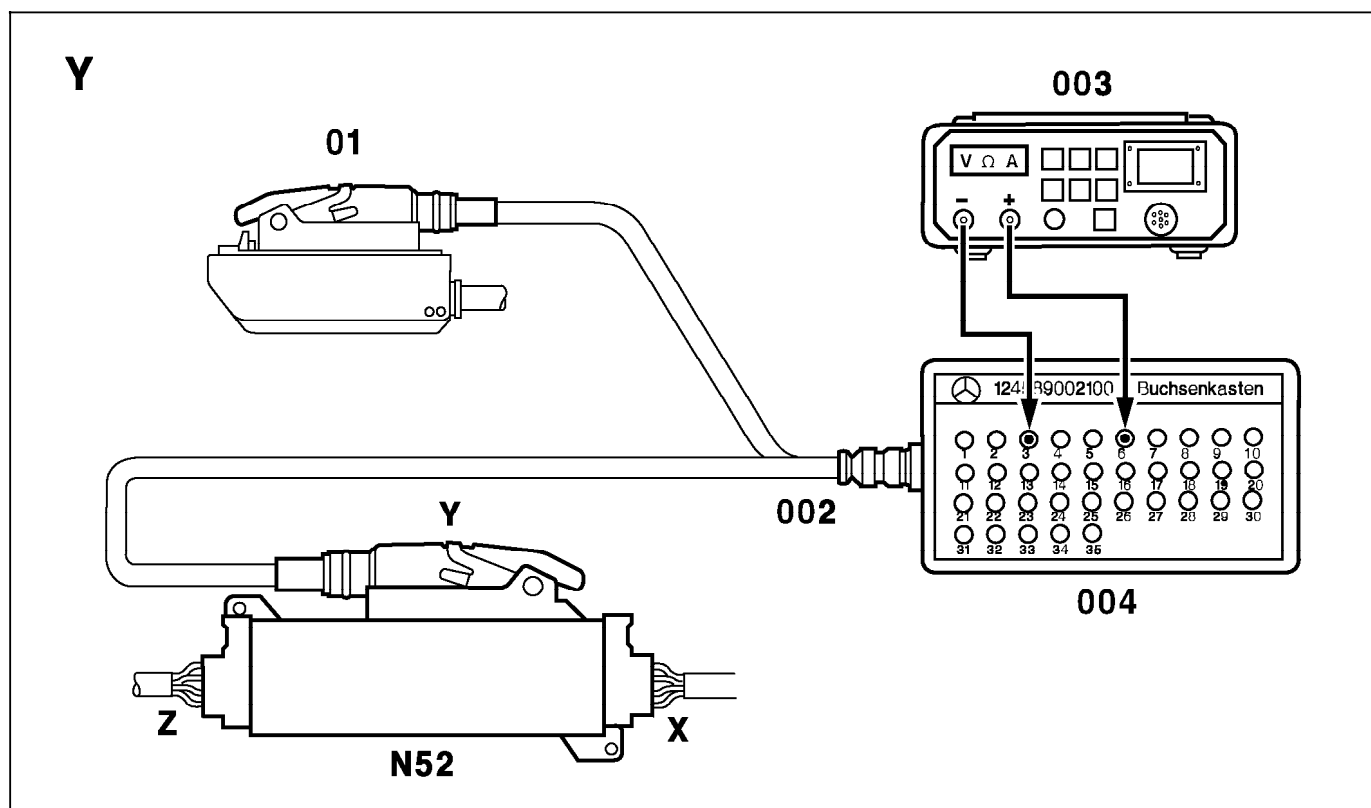


Figure 2

- 01 Connector, 35-pole (vehicle wiring harness)
- 002 Test cable, 35-pole 129 589 00 63 00
- 003 Multimeter
- 004 Socket box
- N52 Power soft top control module

P77.39-0275-05

Electrical Test Program – Preparation for Test

Connection Diagram – Socket Box with Connector Z

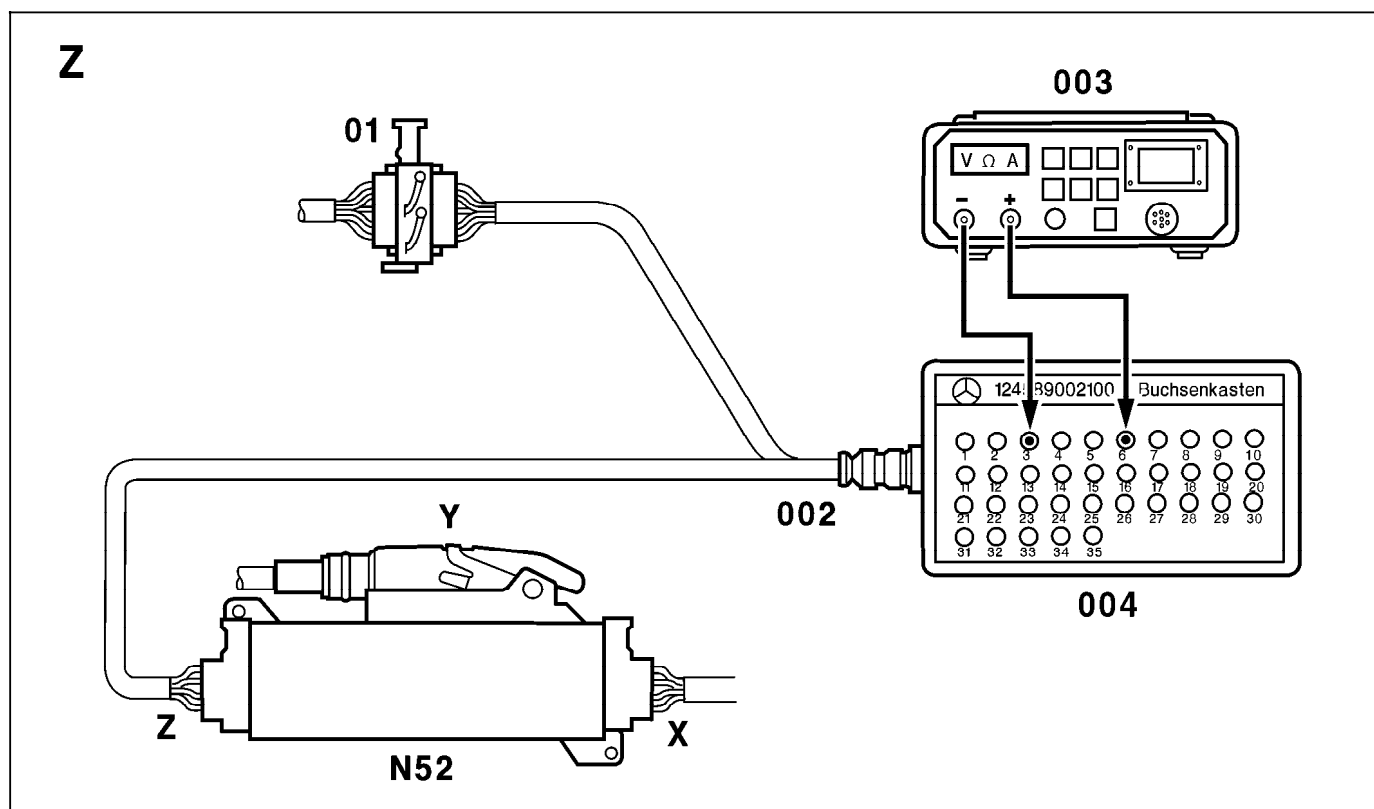


Figure 3

- 01 Connector, 12-pole (vehicle wiring harness)
- 002 Test cable, 12-pole 129 589 01 63 00
- 003 Multimeter
- 004 Socket box
- N52 Power soft top control module

P77.39-0276-05