

Electrical Test Program – Preparation for Test (Seat Adjustment with Memory)

Preliminary work:

Diagnosis - Diagnostic Trouble Code (DTC) Memory 12

Preparation for Test:

1. Check fuses F1–13, F1–14, F1–22, F4–3, F4–8, F4–9, F4–13, F4–14 OK.
2. Check fuse F4–8, F4–9 for left front ESA control module (N32/1) OK.
3. Check fuse F4–13, F4–14 for right front ESA control module (N32/2) OK.
4. Battery voltage 11 – 14 V,
5. Connect Hand-Held Tester (HHT) to 38-pole data link connector (X11/4) according to connection diagram shown in section 0.
6. Prior to each connection or disconnection of connectors at the combination control module (N10-1), the battery ground cable must be disconnected (fault codes will be erroneously stored in DTC memory).

Electrical wiring diagrams:

Electrical Troubleshooting Manual, Model 210, Volume 2, group 91



The diagnostic trouble codes (DTC's) can only be read out and erased **using the Hand-Held Tester (HHT).**

Head restraint Initial adjustment

Prerequisite for the proper operation of the head restraint is that the head restraint be operated once to its lower adjustment stop and once to its upper adjustment stop.

Left front power seat and front passenger seat memory

The left/right front ESA control modules contain a memory for both the left front power seat and front passenger seat.

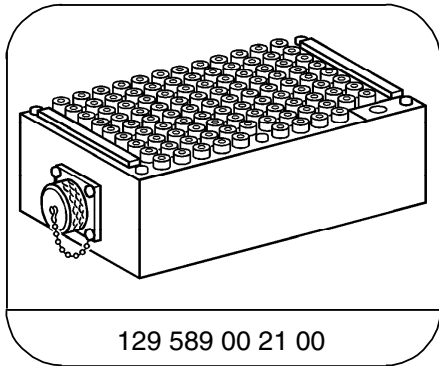
Components

The left/right front ESA control modules (N32/1, N32/2), as well as the various motors of the left/right ESA motor group (M27, M28) are of like design and can be interchanged with each other.

When changing a left/right front ESA control module (N32/1, N32/2), the seat adjustment motor supplier (Brose/Hammerstein) must be programmed into the ESA control module.

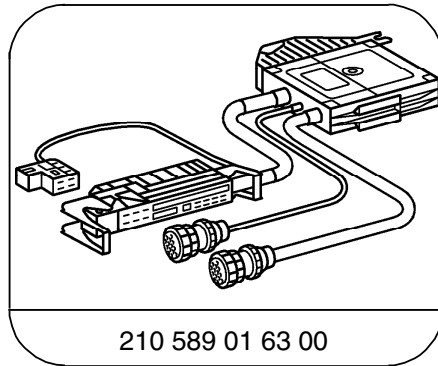
Electrical Test Program – Preparation for Test (Seat Adjustment with Memory)

Special Tools



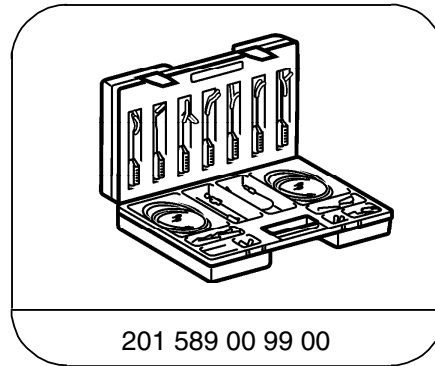
129 589 00 21 00

126-pin socket box



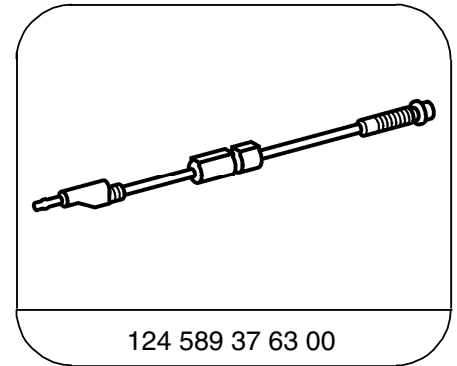
210 589 01 63 00

78-pin test cable



201 589 00 99 00

Electrical connecting set



124 589 37 63 00

Fused cable

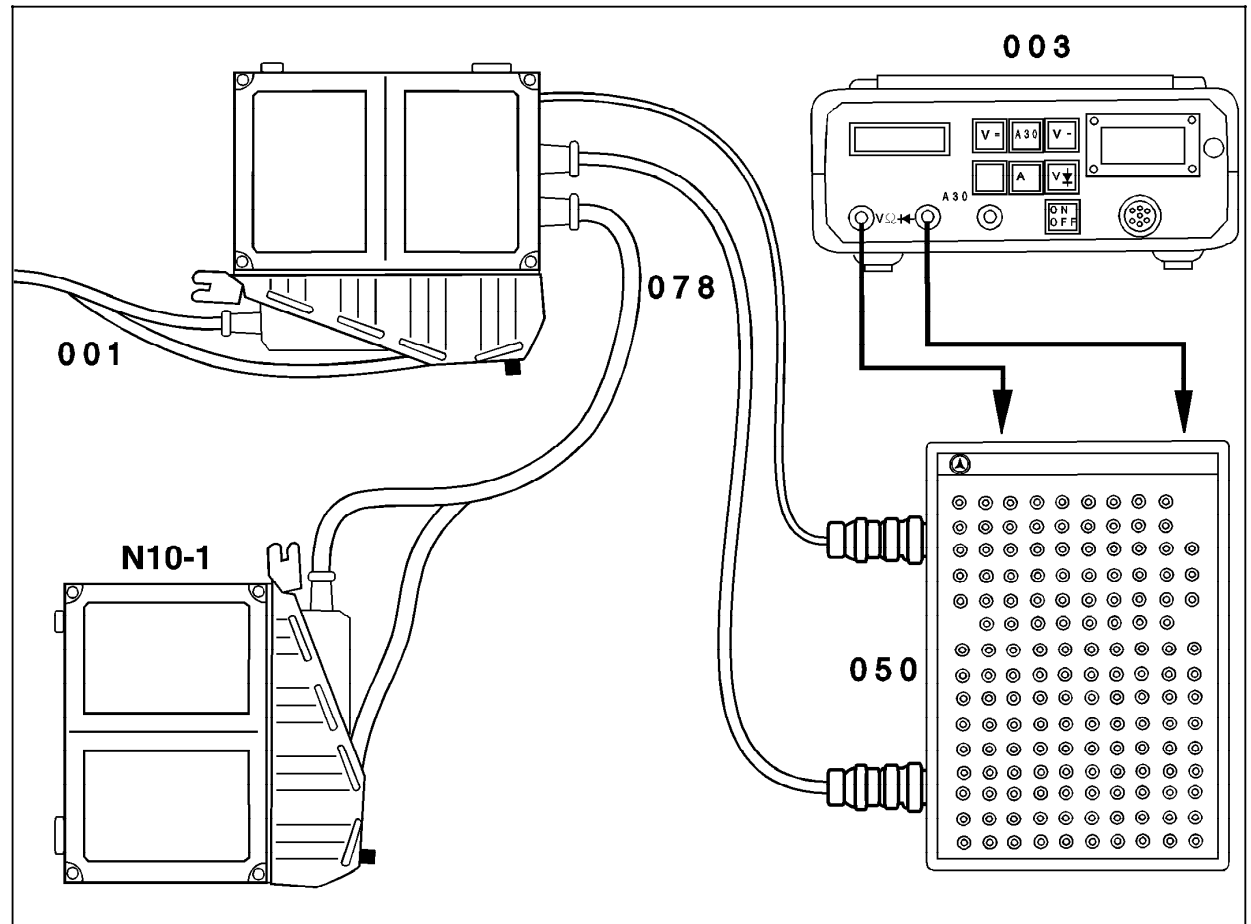
Conventional tools, test equipment

Description	Brand, model, etc.
Multimeter ¹⁾	Fluke models 23, 83, 85, 87

¹⁾ Available through the MBUSA Standard Equipment Program.

Electrical Test Program – Preparation for Test (Seat Adjustment with Memory)

Connection Diagram - Socket Box



- 001 Vehicle harness
- 003 Multimeter
- 050 Socket box (126-pole)
- 078 Test cable 210 589 01 63 00
- N10-1 Combination control module

U82.40-0210-06