3.2 Remote Trunk Release (PSE/RTR)
Model 202

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Diagnosis – Function Test (Remote Trunk Release)

Preparation for Test:

1. Check fuse F1–27 ok,
2. Battery voltage 11 – 14 V.
3. Vehicle is unlocked via IR transmitter.
4. Rear trunk lid is closed.
5. Trunk lid has not been locked separately (using mechnical key).

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy [1]
⇒ 1.0 Open trunk lid via remote trunk release switch (S15).	Press remote trunk release switch (S15).	Trunk lid opens.	Trunk lid does not open and pump motor in PSE control module (A37) **does not run**. 23 ⇒ 1.0 Trunk lid does not open even though pump motor in PSE control module (A37) **runs**. 32 ⇒ 1.0, 32 PSE ⇒ 2.0, Mechanical fault in trunk lid lock.

[1] Observe Preparation for Test, see 22.

Electrical Test Program – Component Locations (RTR)

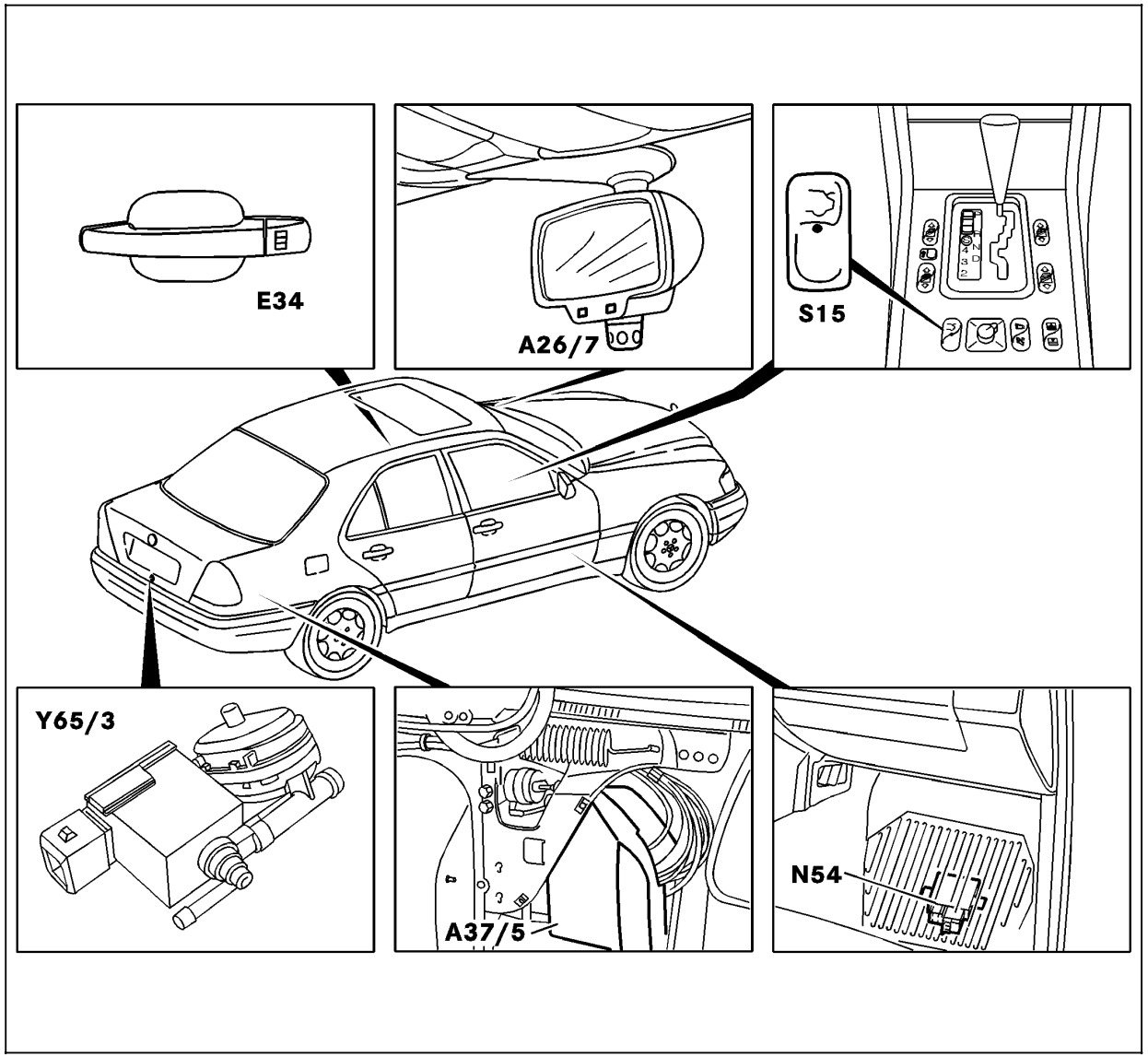

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Figure 1

A26/7 RCL receiver (interior rear view mirror)
A37 PSE control module
E34 RCL function indicator
N54 RCL control module
S15 Remote trunk release switch
Y65/3 RTR control valve (CL)

Electrical Test Program - Preparation for Test (Central Locking)

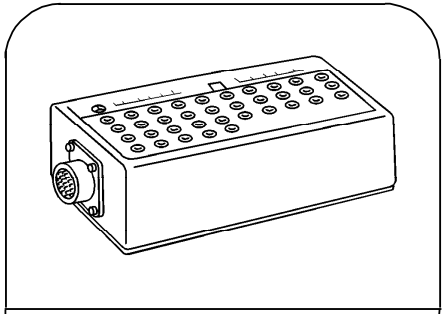
Preparation for Test:

1. **Model 202 up to 11/94:** Check fuse F3–33 ok,
2. **Model 202 as of 12/94:** Check fuse F1–27 ok,
3. Provide access to PSE control module (A37/4, A37/5).
4. Connect socket box with test cable according to connection diagram, see 22, Figure 1.

Electrical Wiring Diagrams

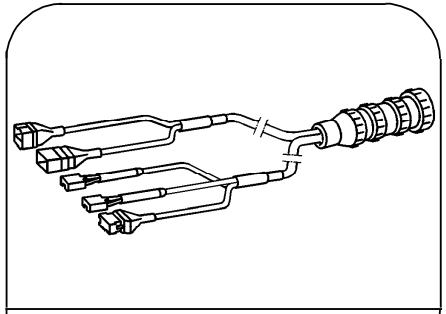
See Electrical Troubleshooting Manual, Model 202, Volume 2, group 80

Special Tools



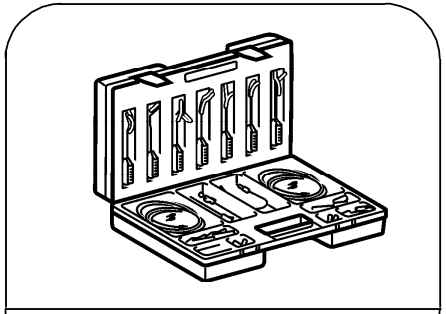
124 589 00 21 00

35-pin socket box



202 589 04 63 00

14-pin test cable



201 589 00 99 00

Electrical connecting set

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 (Central Locking)

Connection Diagram - Socket Box

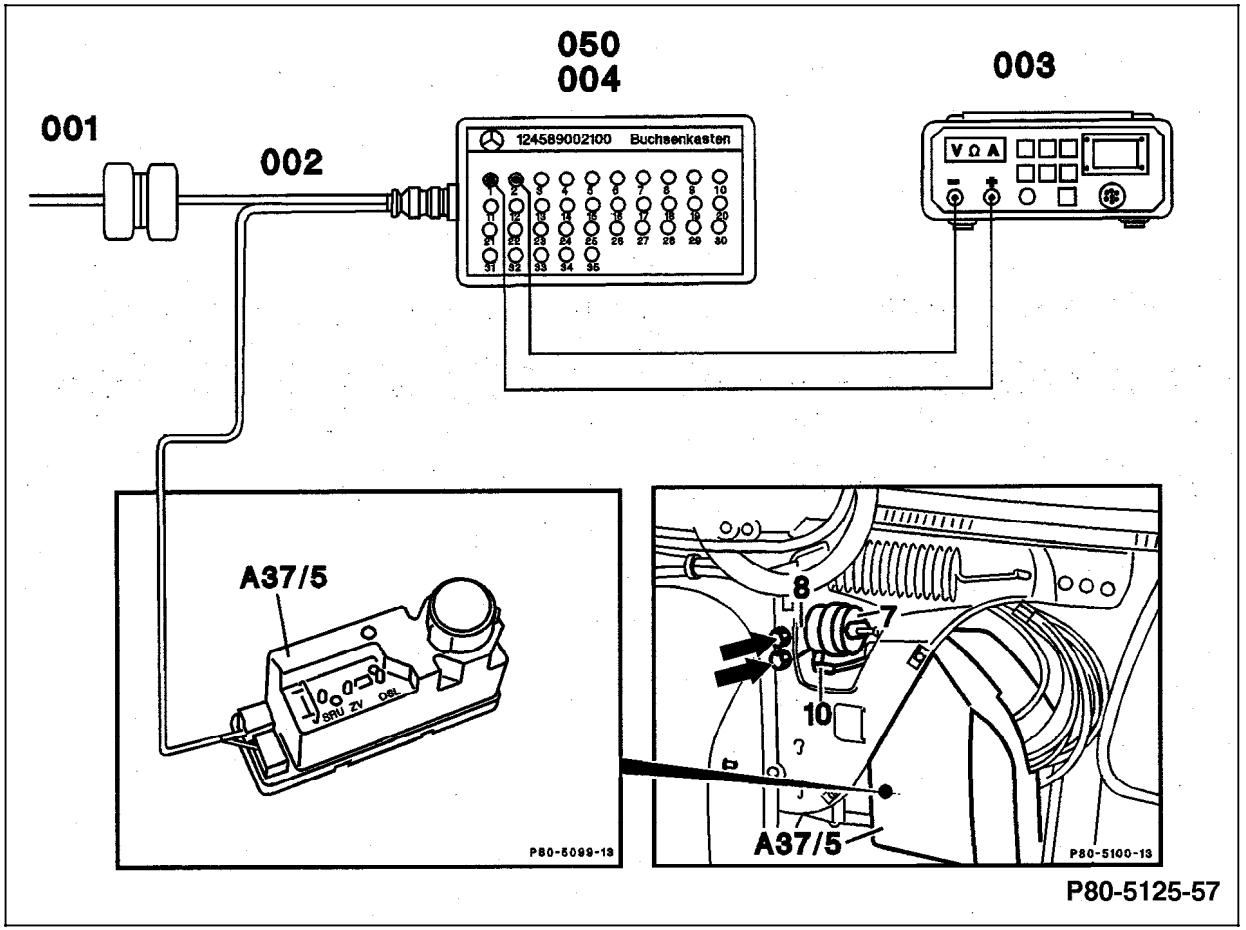


Figure 1

001	PSE control module connector
002	Test cable
003	Multimeter
004/050	Socket box (35-pole)
A37/5	PSE control module

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Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0		**Remote trunk release**		Trunk lid closed. Trunk lid not locked with mechanical key. Remote trunk release switch (S15): **Press switch:**	 Trunk lid opens.	Wiring, ⇒ 1.1, ⇒ 2.0, 23 PSE ⇒ 1.0, 32 ⇒ 1.0, 32 PSE ⇒ 2.0, PSE control module (A37).
1.1		Remote trunk release switch (S15)	A37 10 — (A.2) — 8 (C.8)	Disconnect PSE control module (A37) from . S15: **Rest position** S15: **Hold pressed**	 < 1 V 11 – 14 V	Wiring, S15

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
2.0		**Activate RTR control valve (Y65/3) (CL)**	A37 2 (C.2) — V — 11 (A.3)	S15: **Rest position** S15: **Hold pressed**	< 1 V 11 – 14 V, as long as PSE pump runs (use fluke 83, 88 to measure voltage).	Wiring, ⇒ 1.1, 23 PSE ⇒ 1.0, PSE control module (A37).

Pneumatic Test Program – Component Locations (RTR)

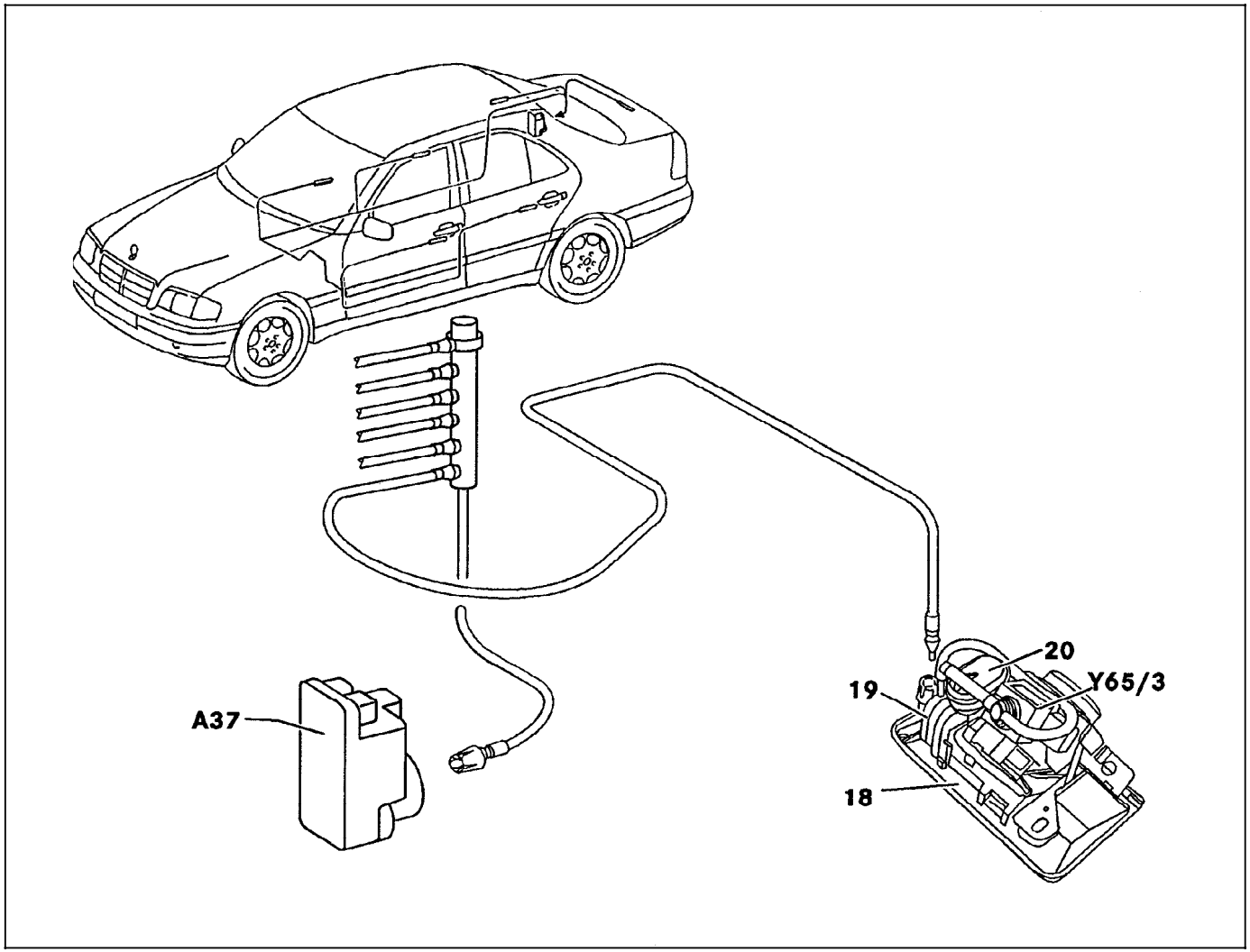

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Figure 1

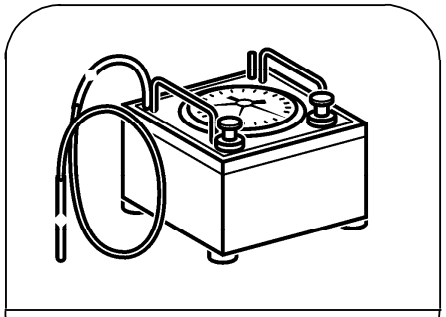
A37	PSE control module
Y65/3	RTR control valve (CL)
18	Trunk lid lock
19	Trunk lid actuator (CL)
20	RTR pneumatic line

Pneumatic Test Program – Test (RTR)

Data (mbar)

Test procedure	Permissible deviation
Allowable system leakage of 300 mbar vacuum in 1 minute.	30 mbar
Allowable leakage of actuators with line at 300 mbar vacuum in 1 minute.	25 mbar

Special Tools



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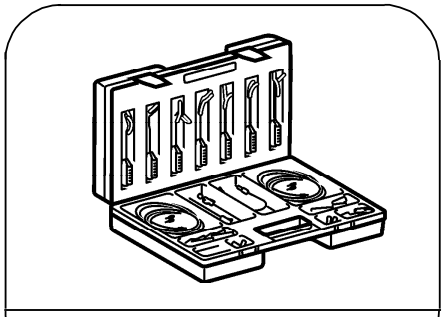
Tester



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Electrical connecting set

Pneumatic Test Program – Test (RTR)

A. Entire System

Preparation for Test:

1. Disconnect **yellow** central locking (CL) pneumatic line from PSE control module.
2. Connect tester to disconnected pneumatic line using connector 202 805 03 44.
3. Remove trunk lid lock, do not disconnect pneumatic line.
4. Apply battery voltage to electrical connector of RTR control valve (Y65/3).

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If an actuator does not operate correctly and no leakage is found, check the respective lines for kinks or blockages.

Parts Required for Test:

1	Connector	202 805 03 44
2	Rubber hose, 50 mm long	007 997 61 82
1	Pneumatic line, 1 m long	000 158 14 35

Note:

The connections on the PSE control module and pneumatic multiple connector are marked with their German acronyms. In other words:
ZV (German) = **CL** (English),
SRU (German) = **MVA** (English),
OSL (German) = **OSB** (English).

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	**Entire system pressurized**	**Yellow** connector on tester to connector	Apply 600 mbar pressure to entire system.	Pressure loss 30 mbar in 1 minute.	⇒ 2.0, ⇒ 3.0.

Pneumatic Test Program – Test (RTR)

B. Pneumatic lines with actuators and RTR control valve (Y65/3)

Preparation for Test:

1. Disconnect pneumatic line connected to connector **F** of pneumatic distributor.
2. Connect tester to disconnected pneumatic line using rubber hose, part no. 007 997 61 82.
3. Remove trunk lid lock, do not disconnect pneumatic line.
4. Apply battery voltage to RTR control valve (Y65/3).

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After testing, reconnect prior disconnected pneumatic line using rubber hose part no. 007 997 61 82 to pneumatic distributor.

Parts Required for Test:

1	Rubber hose, 50 mm long	007 997 61 82

Parts Required for Repair:

Rubber hose (as necessary)	007 997 61 82

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
2.0	**Actuators with pneumatic lines and RTR control valve (Y65/3) pressurized**	**Yellow** connector on tester.	Apply 600 mbar pressure to pneumatic lines and RTR control valve (Y65/3).	Pressure loss 25 mbar in 1 minute.	⇒3.0, 32 PSE/CL ⇒7.0

Pneumatic Test Program – Test (RTR)

C. RTR control valve (Y65/3) with RTR pneumatic actuator

Preparation for Test:

1. Remove trunk lid lock.
2. Connect tester to pneumatic connector of RTR control valve (Y65/3).
3. Apply battery voltage to electrical connector of RTR control valve (Y65/3).

Parts Required for Test:

1	Pneumatic line, 1m long	000 158 14 35
2	Connector, 50 mm long	007 997 61 82

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
3.0	**RTR control valve (Y65/3) with RTR pneumatic actuator pressurized**	**Yellow** connector on tester.	Apply 600 mbar pressure to actuator and pneumatic line.	Pressure loss 25 mbar in 1 minute.	RTR control valve with actuator leaks. Replace.