

13.5 Anti-Theft Alarm (ATA) Model 210 up to 2/97

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Central locking (CL) and Anti-Theft Alarm (ATA) can be used via the IR transmitter key as well as the mechanical key.

Activation of the PSE

RCL control module (N54) is connected to the combination control module (N10-1) via a control wire. From the combination control module (N10-1) the necessary control signals are sent via two CAN data lines to the PSE.



- ATA functions have been integrated into the PSE control module (A37).
- The DTC fault memory for the PSE control module (A37) has been integrated into the combination control module (N10-1).
- Replacement combination control module (N10-1) must be reprogrammed as noted in 31
- A quick function test can be accomplished using the Hand-Held Tester (HHT) for the activation of components and to read out actual values.
- Head lamp illumination (illumination time after ignition shut-off) is permanently programmed for a time period of 30 seconds.

Diagnosis – Function Test

 **CAUTION!**

After performing the Function Test, erase any stored DTC's (see section 0).

| Test step/Test scope | Test condition | Nominal value | Possible cause/Remedy ¹⁾ |
|--|---|-------------------------------------|-------------------------------------|
| ⇒ 1.0 Trigger ATA via left front door. | <ul style="list-style-type: none"> Open driver's window. Lock driver's door with key. (model 210, up to M.Y. 1997), (1997 E420, up to 06/96 production). After approximately 15 seconds open door from inside. | Alarm horn sounds (turn off alarm). | 23 ⇒ 2.0 |
| ⇒ 2.0 Trigger ATA via right front door. | <ul style="list-style-type: none"> Open passenger window. Lock passenger door with key. (model 210, as of M. Y. 1997) (1997 E420, as of 06/96 production). After approximately 15 seconds open door from inside. | Alarm horn sounds (turn off alarm). | 23 ⇒ 3.0 |
| ⇒ 3.0 Trigger ATA via left or right rear door. | <ul style="list-style-type: none"> Open corresponding rear passenger window. Lock driver's door with key. (model 210, up to M.Y. 1997), (1997 E420, up to 06/96 production). Lock passenger door with key. (model 210, as of M. Y. 1997), (1997 E420, as of 06/96 production). After approximately 15 seconds open rear door from inside. | Alarm horn sounds (turn off alarm). | 23 ⇒ 4.0, 5.0 |

¹⁾ Observe Preparation for Test, see 22.

Diagnosis – Function Test

| Test step/Test scope | Test condition | Nominal value | Possible cause/Remedy ¹⁾ |
|-------------------------------------|--|---|---|
| ⇒ 4.0 Trigger ATA via engine hood. | <ul style="list-style-type: none"> • Open driver's window. • Lock vehicle with key. • Wait approximately 15 seconds. • Release engine hood through open window. • Open engine hood. | Alarm horn sounds (turn off alarm). | 23 ⇒ 7.0 |
| ⇒ 5.0 Trigger ATA via trunk lid. | <ul style="list-style-type: none"> • Open trunk lid. • Lock vehicle. • Turn off trunk lamp (rotary tumbler switch open). • Wait approximately 15 seconds. • Turn on trunk lamp (rotary tumbler switch closed). | Alarm horn sounds (turn off alarm). | 23 ⇒ 6.0 |
| ⇒ 6.0 Trigger ATA via ignition | <ul style="list-style-type: none"> • Sit in driver's seat. • Open driver's window. • Lock vehicle. • Wait approximately 15 seconds. • Turn ignition ON. • Alarm duration (approx. 30 sec.) | Alarm horn sounds (turn off alarm). | D.M., Body and Accessories, Volume 1, 2.1, 23 ⇒ 2.0 |
| ⇒ 7.0 Trigger ATA via service brake | <ul style="list-style-type: none"> • Sit in driver's seat. • Open driver's window. • Lock vehicle. • Wait approximately 15 seconds. • Turn ignition ON. • Await completion of alarm cycle (approx. 30 seconds). • When cycle ends, with ignition ON, step on service brake. | Alarm horn sounds. Alarm horn sounds (turn off alarm). | 23 ⇒ 8.0 |

¹⁾ Observe Preparation for Test, see 22.

Diagnosis – Function Test

| Test step/Test scope | Test condition | Nominal value | Possible cause/Remedy ¹⁾ |
|--|---|--|-------------------------------------|
| ⇒ 8.0 Trigger ATA via Radio (running change during M. Y. 1996) | <ul style="list-style-type: none"> Sit in driver's seat. Open driver's door window (model 210, up to M.Y. 1997), (1997 E420, up to 06/96 production). Lock vehicle. Wait approximately 15 seconds. Remove radio. Deactivate ATA. Note: After Function Test radio must be recoded. | Alarm horn sounds. | 23 ⇒ 9.0, Radio contact separated. |
| ⇒ 9.0 <i>Not applicable for U.S.A. vehicles</i> | – | – | – |
| ⇒ 10.0 <i>Not applicable for U.S.A. vehicles</i> | – | – | – |
| ⇒ 11.0 <i>Not applicable for U.S.A. vehicles</i> | – | – | – |
| ⇒ 12.0 ATA status indicator (E33) | <ul style="list-style-type: none"> Lock vehicle. Wait approximately 15 seconds. | LED in ATA status indicator (center console) blinks. | 23 ⇒ 13.0 |
| ⇒ 13.0 <i>Not applicable for U.S.A. vehicles</i> | – | – | – |
| ⇒ 14.0 <i>Not applicable for U.S.A. vehicles</i> | – | – | – |

¹⁾ Observe Preparation for Test, see 22.

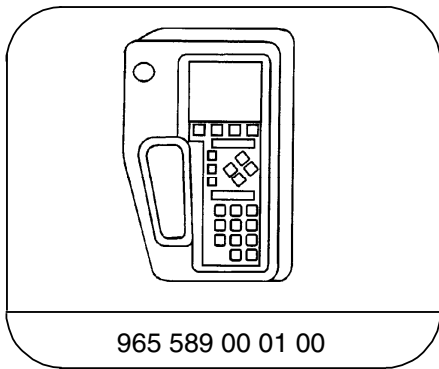
Diagnosis – Diagnostic Trouble Code (DTC) Memory**Preparation for Test:**

1. Check fuses, OK.
2. Battery voltage 11 – 14 V
3. Unlock vehicle via RCL, deactivate ATA.
4. Ignition: **ON**

Connect Hand-Held Tester (HHT) according to connection diagram shown in section 0.

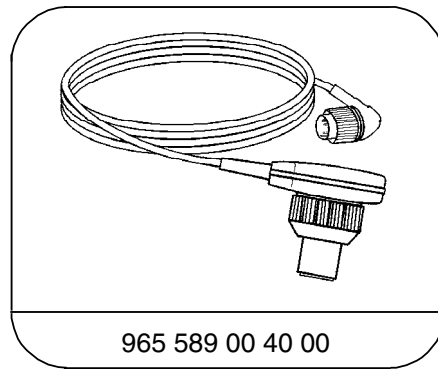


Readout of the DTC fault codes begins with the most recent stored fault codes and ends with the fault code of the oldest date (logic: “last in”, “first out”).

Special Tools

965 589 00 01 00

Hand-Held-Tester




965 589 00 40 00

Test cable

Diagnosis – Diagnostic Trouble Code (DTC) Memory


Survey of fault codes – Alarm triggering circuit

| DTC  | Possible cause | Test step/Remedy ¹⁾ |
|--|--|--|
| B1000 | Combination control module (N10-1) | N10-1 |
| B1010 | Low voltage | 7.1 23 |
| B1011 | Excess voltage | 7.1 23 |
| B1021 | CAN data lines have no communication with PSE | Perform function test of RCL, CL, rear window heating and interior lighting, if not ok: 23 ⇒ 17.0 – 23.0 |
| B1024 | CAN data lines Low or Combination control module (N10-1) CAN: Data line Low | 23 ⇒ 17.0 – 23.0 |
| B1025 | CAN data lines High or Combination control module (N10-1) CAN: Data line High | 23 ⇒ 17.0 – 23.0 |
| B1220 | Not applicable for U.S. A. vehicles, continue to next test step. | – |
| B1220 | Not applicable for U.S. A. vehicles, continue to next test step. | – |
| B1221 | Not applicable for U.S. A. vehicles, continue to next test step. | – |
| B1221 | Not applicable for U.S. A. vehicles, continue to next test step. | – |
| B1710 | Alarm (ATA) triggered via trunk lamp switch (S17/8) | 23 ⇒ 6.0 |
| B1711 | Alarm (ATA) triggered via engine hood switch (S62) | 23 ⇒ 7.0 |
| B1712 | Alarm (ATA) triggered via left front door switch (S17/3) | 23 ⇒ 2.0 |
| B1713 | Alarm (ATA) triggered via right front door switch (S17/4) | 23 ⇒ 3.0 |
| B1714 | Alarm (ATA) triggered via left rear door switch (S17/5) | 23 ⇒ 4.0 |

1) Observe Preparation for Test, see 22.

Diagnosis – Diagnostic Trouble Code (DTC) Memory

Survey of fault codes – Alarm triggering circuit

| DTC  | Possible cause | Test step/Remedy ¹⁾ |
|--|---|---|
| B1715 | Alarm (ATA) triggered via right rear door switch (S17/6) | 23 ⇒ 5.0 |
| B1718 | Alarm (ATA) triggered via radio (running change during M. Y. 1996) | 23 ⇒ 9.0 |
| B1719 | Alarm (ATA) triggered via telephone | Currently not used. |
| B1720 | Alarm (ATA) triggered via FAX equipment | Currently not used. |
| B1721 | Alarm (ATA) triggered via ignition system | D.M., Body and Accessories, Volume 1, 2.1 |
| B1722 | Alarm (ATA) triggered via stop lamp switch (S9/1) | 23 ⇒ 8.0 |
| B1723 | Not applicable for U.S. A. vehicles, continue to next test step. | – |
| B1724 | Not applicable for U.S. A. vehicles, continue to next test step. | – |
| B1725 | Not applicable for U.S. A. vehicles, continue to next test step. | – |
| B1726 | Circuit 30 interrupted while in armed state | 23 ⇒ 1.0 |
| B1727 | Not applicable for U.S. A. vehicles, continue to next test step. | – |
| B1728 | Not applicable for U.S. A. vehicles, continue to next test step. | – |
| B1729 | PSE (A37) | A37 |

1) Observe Preparation for Test, see 22.

Diagnosis – Actual Values

The following tests and activations are possible via the Hand-Held Tester.

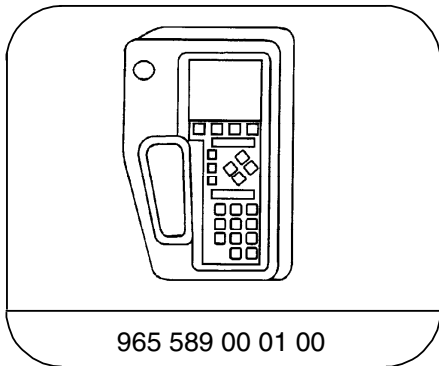
Actual values (functional condition)

- Various door lock switches including engine hood and trunk lid.
- Ignition system
- Service brake
- Radio contact (running change during M.Y. 1996)
- ATA status indication

Preparation for Test:

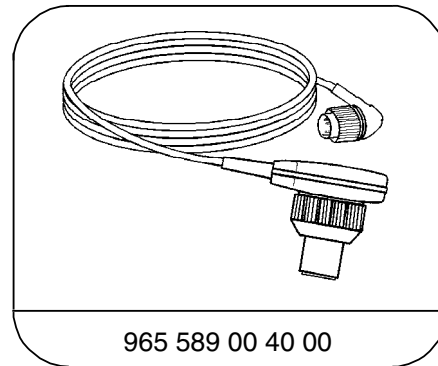
1. Fuses ok,
2. Battery voltage 11 – 14 V.
3. Ignition: **ON**
4. Connect the Hand-Held Tester (HHT) to X11/4, according to diagram, see section 0.

Special Tools



965 589 00 01 00














Hand-Held-Tester












965 589 00 40 00

Test cable



Electrical Test Program – Test Actual Values (HHT)

| ⇒ |  | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|-----|---|--|---|-------------------------------------|---------------|-----------------------|
| 1.0 |  | Trunk lamp switch (S17/8) or rotary latch selector switch |  | Trunk lid: closed open | OFF ON | 23 ⇒ 6.0 |
| 2.0 |  | Engine hood switch (S62) |  | Engine hood: closed open | OFF ON | 23 ⇒ 7.0 |
| 3.0 |  | Left front door switch (S17/3) |  | Left front door: closed open | OFF ON | 23 ⇒ 2.0 |
| 4.0 |  | Right front door switch (S17/4) |  | Right front door: closed open | OFF ON | 23 ⇒ 3.0 |
| 5.0 |  | Left rear door switch (S17/5) |  | Left rear door: closed open | OFF ON | 23 ⇒ 4.0 |
| 6.0 |  | Right rear door switch (S17/6) |  | Right rear door: closed open | OFF ON | 23 ⇒ 5.0 |

Electrical Test Program – Test Actual Values

| ⇒ |  | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|------|---|--|---|--|---------------|-----------------------|
| 7.0 |  | Non-USA vehicles only. |  | | | |
| 8.0 |  | Radio contact (A2) (running change during M.Y. 1996) |  | Radio installed Radio contact connected Radio removed Radio contact not connected | ON OFF | 23 ⇒ 9.0 |
| 9.0 |  | Telephone contact currently not used. |  | Telephone installed Telephone contact connected Telephone removed Telephone contact not connected | ON OFF | Currently not used. |
| 10.0 |  | Fax equipment contact currently not used. |  | Fax equipment installed Fax contact connected Fax equipment removed fax contact not connected | ON OFF | Currently not used. |

Electrical Test Program – Test Actual Values

| ⇒ |  | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|------|---|---|---|---|---------------|-----------------------|
| 11.0 | 11 | Stop lamp switch (S9/1) |  | Ignition: ON Service brake applied not applied | ON OFF | 23 ⇒ 8.0 |
| 12.0 | 14 | Non-USA vehicles only, continue to next test step. | – | – | – | – |
| 13.0 | 15 | Non-USA vehicles only. | – | – | – | – |
| 14.0 | 16 | Non-USA vehicles only. | – | – | – | – |
| 15.0 | 17 | Non-USA vehicles only. | – | – | – | – |

Diagnosis – Activation

Activation

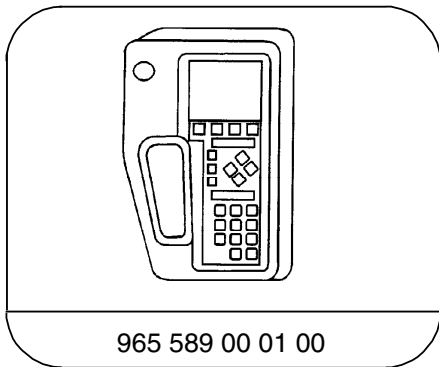
The following components can be activated:

- Alarm horn (H3)
- Headlamps or hazard flasher
- Taillamps
- ATA status indication

Preparation for Test:

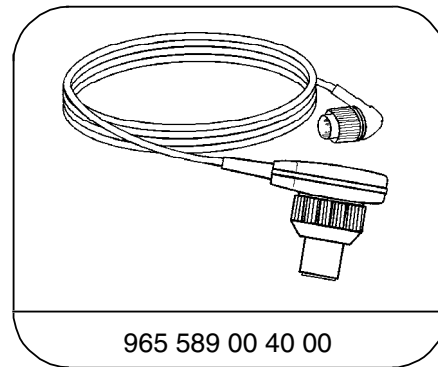
1. Fuses ok,
2. Battery voltage 11 – 14 V.
3. Ignition: **ON**
4. Connect the Hand-Held Tester (HHT) to X11/4, according to diagram, see section 0.

Special Tools



965 589 00 01 00





Hand-Held-Tester






965 589 00 40 00

Test cable

Electrical Test Program – Test Actual Values

| ⇒ |  | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|-----|---|---|---|------------------------------|---|-----------------------|
| 1.0 | 1 | Alarm horn |  | Press F2 key Press F3 key | ON Alarm sounds | 23 ⇒ 13.0 |
| 2.0 | 2 | ATA status indicator (E33) |  | Press F2 key Press F3 key | ON OFF ATA status indicator illuminated | 23 ⇒ 26.0 |
| 3.0 | 4 5 6 | Non-USA vehicles only, continue to next test step. | — | — | — | — |
| 4.0 | 4 | Hazard flashers |  | Press F2 key | ON Hazard flashers flash continuously. | 23 ⇒ 11.0 |

Electrical Test Program – Test Actual Values

| ⇒ |  | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|-----|---|-------------------------------|---|----------------|-------------------------------|-----------------------|
| 5.0 | 4 5 | Headlamps |  | Press F2 key | 0V Headlamps illuminated. | 23 ⇒ 12.0 |
| 6.0 | 4 5 | Tail lamps |  | Press F2 key | 0V Tail lamps illuminated. | 23 ⇒ 12.0 |
| 7.0 | 6 7 | Non-USA vehicles only. | — | — | — | — |

Electrical Test Program – Component Locations (ATA)

Model 210

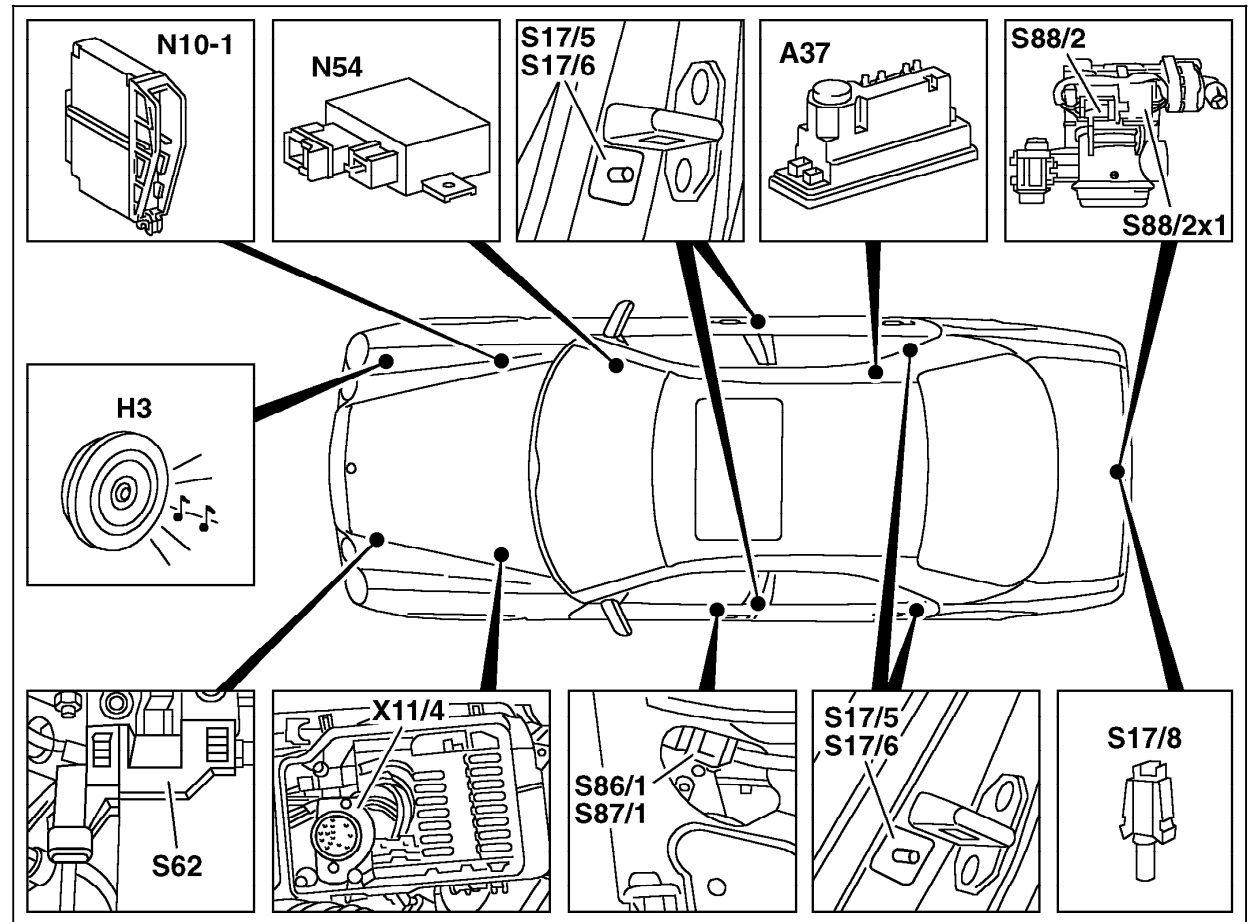


Figure 1

- A37 PSE control module, combined functions
- H3 Alarm horn
- N10-1 Combination control module (convenience feature [CF], wiper system, heated rear window, control module box fan)
- N54 RCL control module
- S17/3 Left front door switch
- S17/4 Right front door switch
- S17/5 Left rear door switch
- S17/6 Right rear door switch
- S86/1 Left front door lock switch (CF) (M.Y. 1996)
- S87/1 Right front door lock switch (CF) (M.Y. 1997)
- S88/2 Trunk lid lock switch (CF)
- S88/2x1 Trunk lid lock switch connector (CF)

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Electrical Test Program – Connection of Components – This Page Left Blank Intentionally

Electrical Test Program – Connection of Components

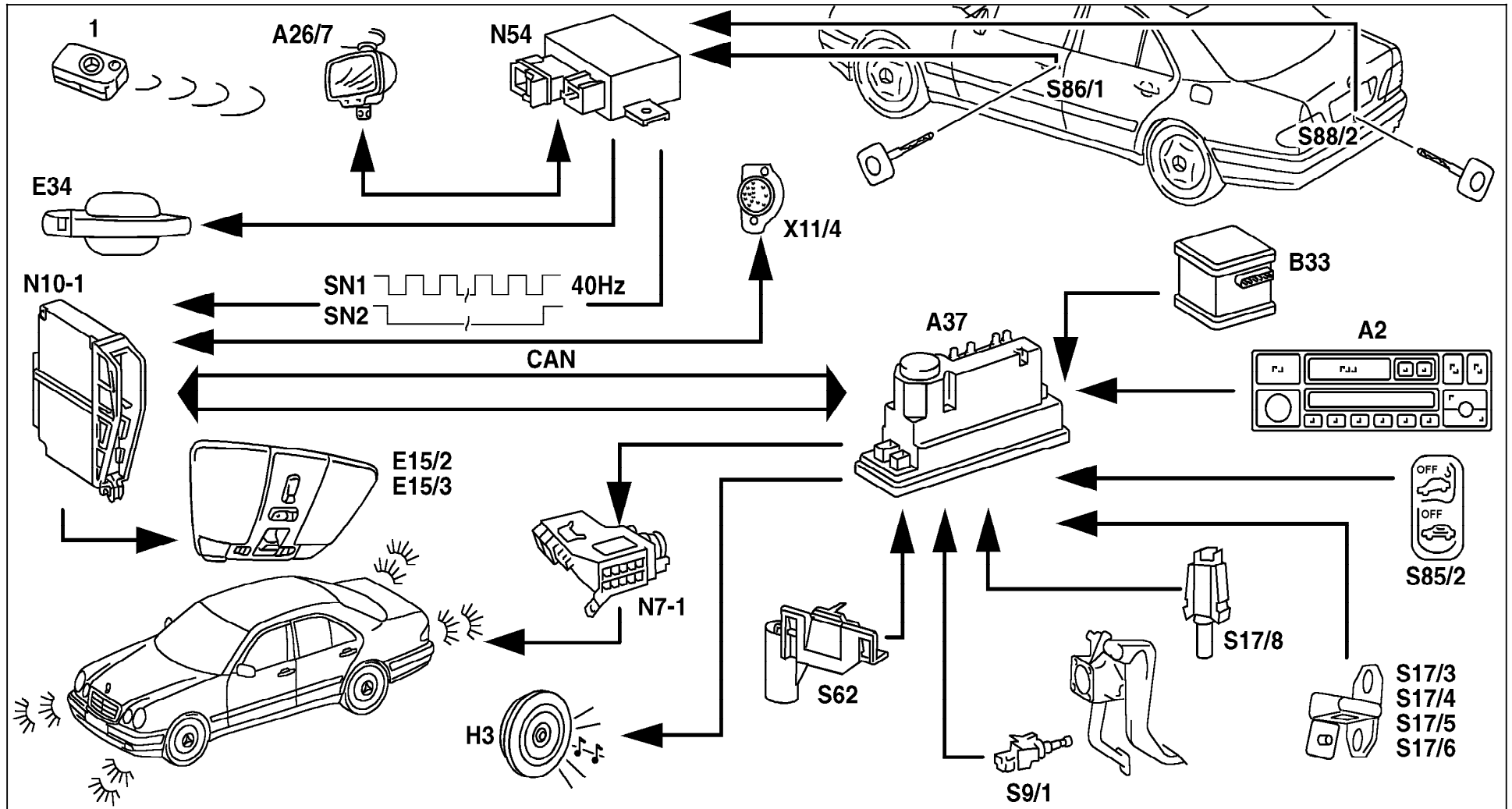


Figure 1

Model 210 M.Y. 1996, E420 M.Y. 1997 up to 06/96 production shown

P82.50-0621-09

Electrical Test Program – Connection of Components

| | | | |
|-------|---|-------|-----------------------------------|
| A2 | Radio | N54 | RCL control module |
| A26/7 | RCL receiver (interior rearview mirror) | S9/1 | Stop lamp switch (4-pole) |
| A37 | PSE control module | S17/3 | Left front door switch |
| B33 | Non - USA vehicles | S17/4 | Right front door switch |
| E15/2 | Front dome lamp (with shut-off delay and front reading lamp) | S17/5 | Left rear door switch |
| E15/3 | Rear dome lamp | S17/6 | Right rear door switch |
| E34 | RCL indicator | S17/8 | Trunk lamp switch |
| H3 | Alarm horn | S62 | Engine hood switch (ATA) |
| N7-1 | Illumination control module | S85/2 | Non - USA vehicles |
| N10-1 | Combination control module (convenience feature [CF], wiper system, heated rear window, control module box fan) | S86/1 | Left front door lock switch (CF) |
| | | S88/2 | Trunk lid lock switch (CF) |
| | | X11/4 | Data link connector (DTC readout) |
| | | SN1 | Lock switch circuit 1 |
| | | SN2 | Lock switch circuit 2 |
| | | 1 | IR transmitter key |

Electrical Test Program – Connection of Components (model 210 as of M.Y. 1997)
(E420 as of 06/96 production)

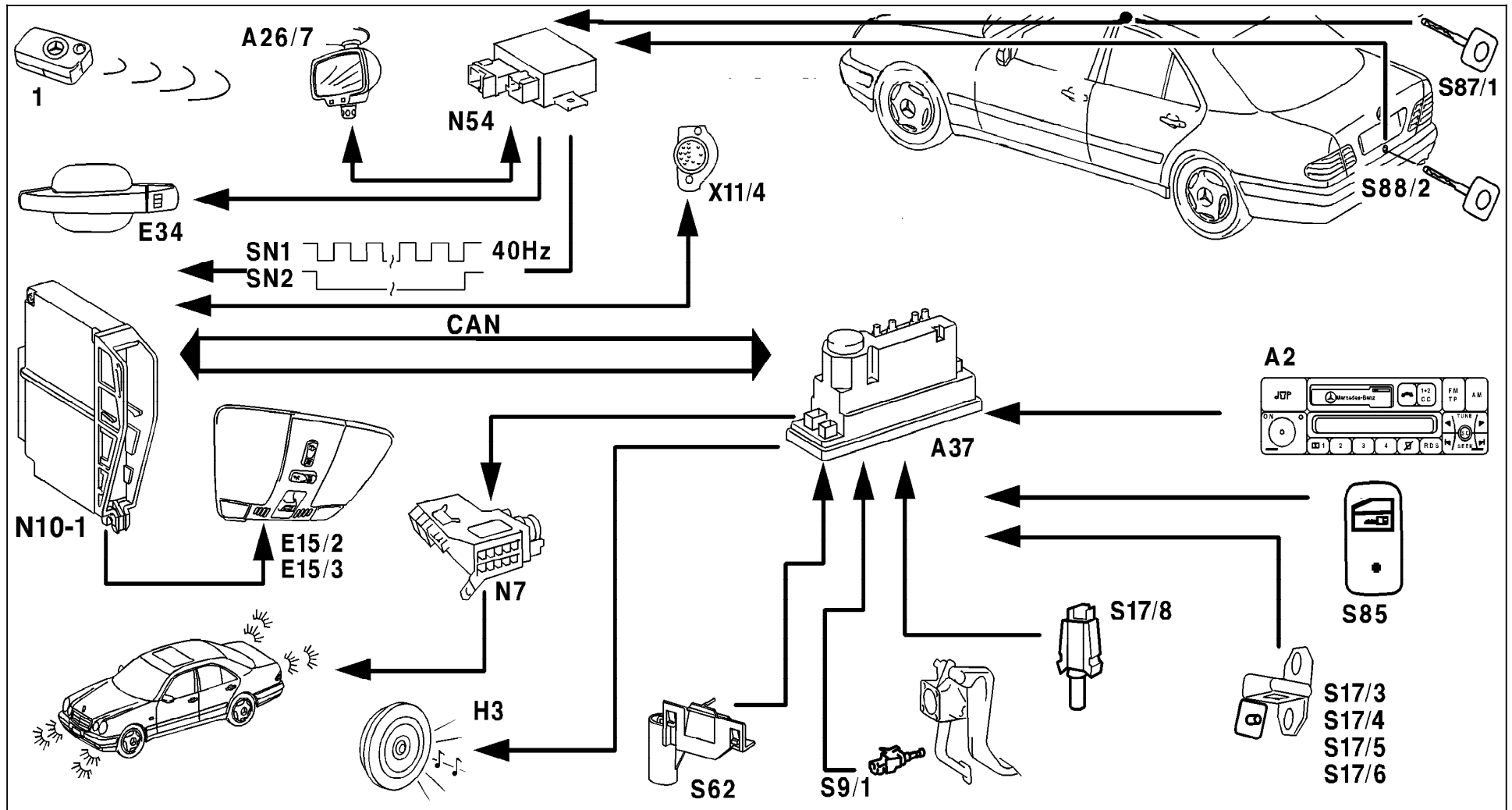


Figure 3
Model 210 M.Y. 1997, E420 as of 06/96 production shown

U82.50-0266-09a

Electrical Test Program – Connection of Components

| | | | |
|-------|---|-------|-----------------------------------|
| A2 | Radio | N54 | RCL control module |
| A26/7 | RCL receiver (interior rearview mirror) | S9/1 | Stop lamp switch (4-pole) |
| A37 | PSE control module | S17/3 | Left front door switch |
| E15/2 | Front dome lamp (with shut-off delay and front reading lamp) | S17/4 | Right front door switch |
| E15/3 | Rear dome lamp | S17/5 | Left rear door switch |
| E34 | RCL indicator | S17/6 | Right rear door switch |
| H3 | Alarm horn | S17/8 | Trunk lamp switch |
| N7 | Exterior lamp failure monitoring module | S62 | Engine hood switch (ATA) |
| N10-1 | Combination control module (convenience feature [CF], wiper system, heated rear window, control module box fan) | S85 | Interior CL switch |
| | | S87/1 | Right front door lock switch (CF) |
| | | S88/2 | Trunk lid lock switch (CF) |
| | | X11/4 | Data link connector (DTC readout) |
| | | SN1 | Lock switch circuit 1 |
| | | SN2 | Lock switch circuit 2 |
| | | 1 | IR transmitter key |

Electrical Test Program - Preparation for Test

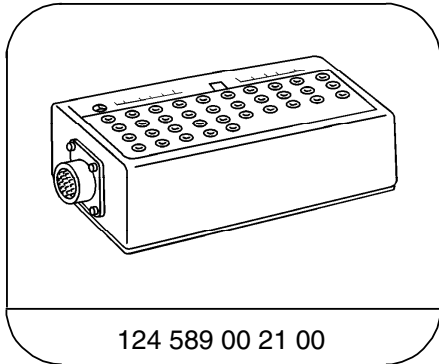
Preparation for Test:

1. Fuses ok,
2. Battery voltage 11 – 14 V,
3. RCL and CL systems ok,
4. Provide access to PSE control module (A37),
5. Provide access to combination control module (N10-1),
6. Connect socket box with test cable according to connection diagram, see 22, Figure 1.

Electrical Wiring Diagrams:

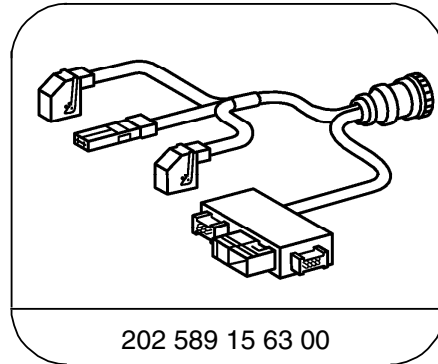
See Electric Troubleshooting Manual, Model 210, Volume 2, group 82

Special Tools



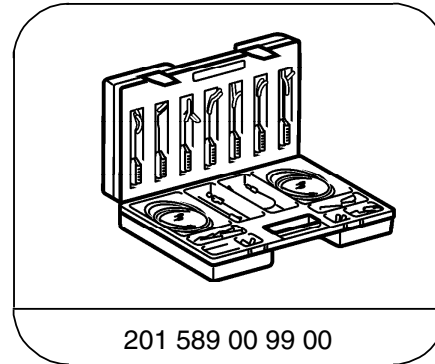
124 589 00 21 00

35-pin socket box



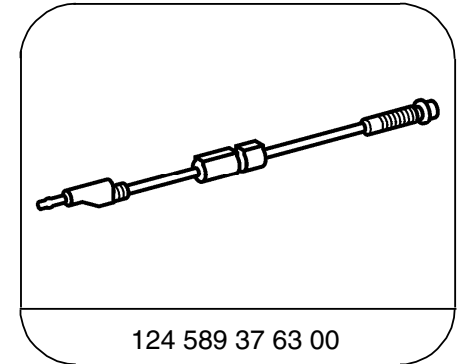
202 589 15 63 00

18-pin and 12-pin CAN test cable



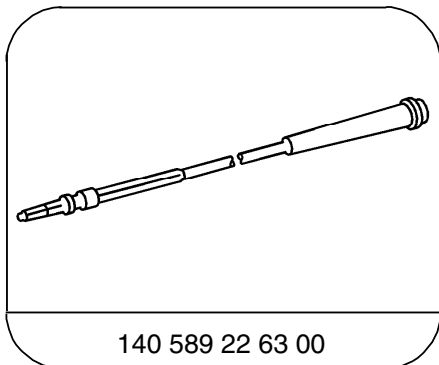
201 589 00 99 00

Electrical connecting set



124 589 37 63 00

Fused cable



140 589 22 63 00

Adapter cable

Electrical Test Program - Preparation for Test**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

Connection Diagram - Socket Box

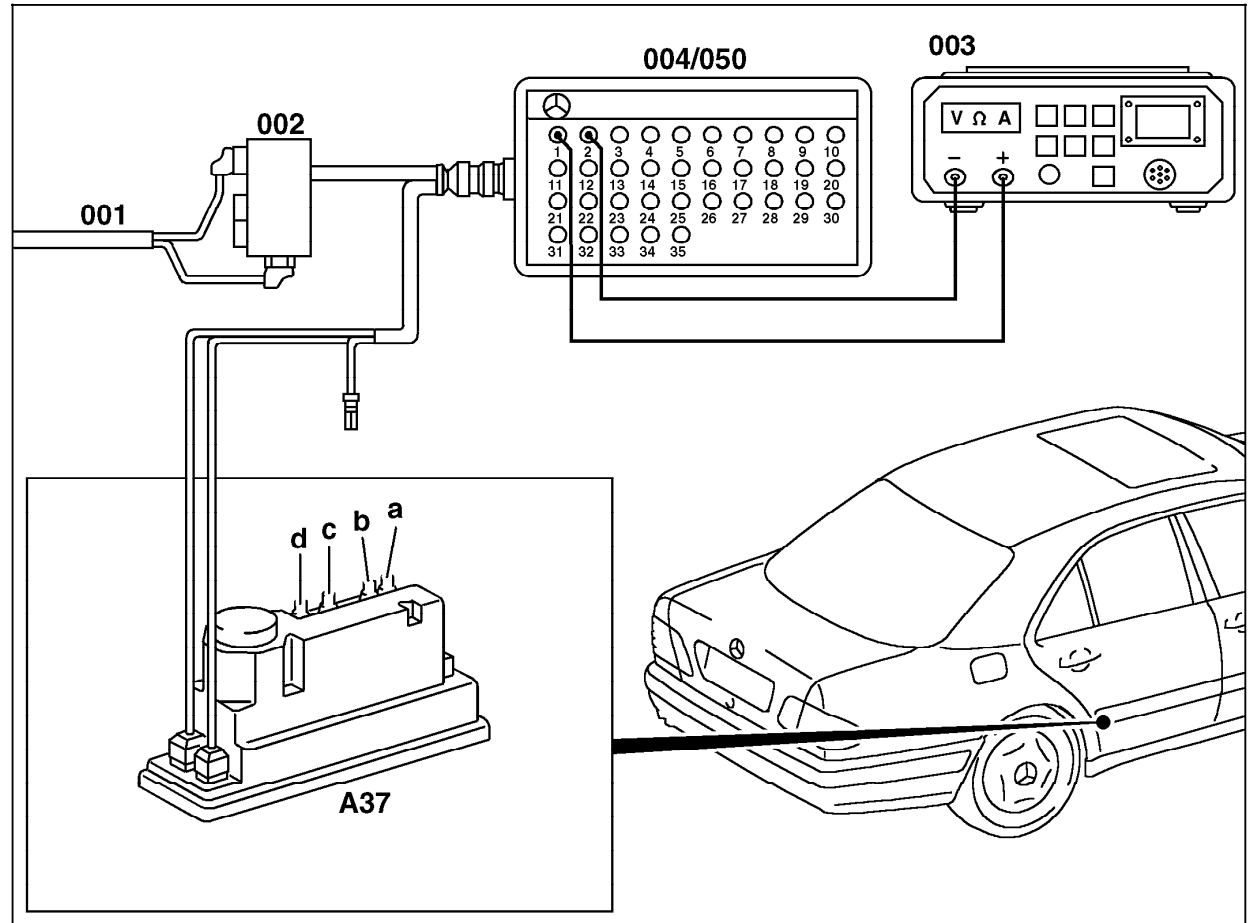

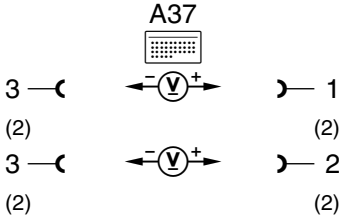
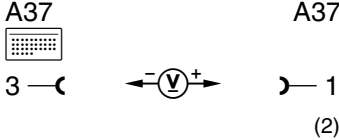
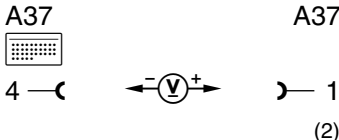
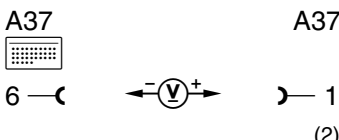


Figure 1


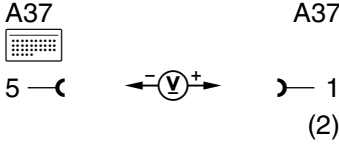
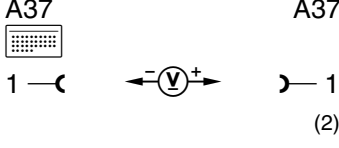
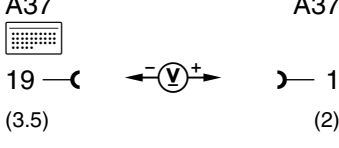
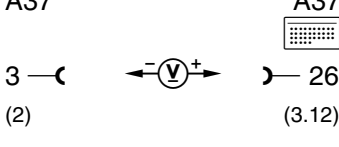
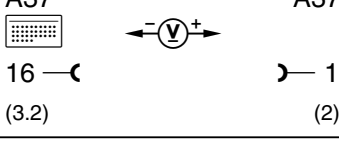
- A37 PSE control module, combined functions (model 170: located in right side of trunk)
- 001 PSE control module connector
- 002 Test cable
- 003 Multimeter
- 004/050 Socket box (35-pole)
- A ATA test cable
- C CL test cable

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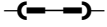
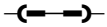
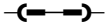
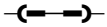

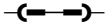
Electrical Test Program – Test

| ⇒ |  | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|-----|---|---|--|-------------------------------------|------------------------|-----------------------|
| 1.0 | B1726 B1729 | PSE control module (A37) Voltage supply Circuit 30 Circuit 30 |  | - | 11 – 14 V 11 – 14 V | Wiring. |
| 2.0 | B1712 | Left front door switch (S17/3) alarm circuit |  | Left front door: closed open | < 1 V 11 – 14 V | S17/3 wiring circuit. |
| 3.0 | B1713 | Right front door switch (S17/4) alarm circuit |  | Right front door: closed open | < 1 V 11 – 14 V | S17/4 wiring circuit. |
| 4.0 | B1714 | Left rear door switch (S17/5) alarm circuit |  | Left rear door: closed open | < 1 V 11 – 14 V | S17/5 wiring circuit. |


Electrical Test Program – Test

| ⇒ |  | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|-----|---|--|--|---|--------------------|---------------------------|
| 5.0 | B1714 | Right rear door switch (S17/6) alarm circuit |  | Right rear door: closed open | < 1 V 11 – 14 V | S17/6 wiring circuit. |
| 6.0 | B1710 | Trunk lamp switch (S17/8) alarm circuit or rotary latch selector switch |  | Trunk lid: closed open | < 1 V 11 – 14 V | S17/8 wiring circuit. |
| 7.0 | B1711 | Engine hood (S62) alarm circuit |  | Engine hood: closed open | < 1 V 11 – 14 V | S62 wiring circuit. |
| 8.0 | B1722 | Stop lamp switch (S9/1) alarm circuit |  | Ignition: ON Apply service brake: | < 1 V 11 – 14 V | S9/1 wiring circuit. |
| 9.0 | B1718 | Radio contact alarm circuit (running change during M. Y. 1996) |  | Radio installed Radio contact connected Radio removed | 11 – 14 V < 1 V | Wiring, Radio contact. |



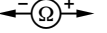





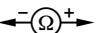



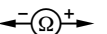


Electrical Test Program – Test

| ⇒ |  | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy | |
|------|---|---|---|-----------------|--|---|-------------------------------------|
| 10.0 | | Alarm horn (H3) | A37 4 (4)  | A37 1 (2) | Insert bridge, part no. 124 589 37 63 00 | Alarm sounds. | H3 wiring circuit. |
| 11.0 | | Hazard flasher alarm circuit | A37 2 1 (4)   | A37 1 (2) | Insert bridges, part no. 124 589 37 63 00 | Left hazard flasher illuminated continuously. Right hazard flasher illuminated continuously. | Wiring. |
| 12.0 | | Headlamp alarm circuit | A37 2 (2)  | A37 3 (4) | Insert bridge, part no. 124 589 37 63 00 | Headlamps illuminated continuously. | Illumination control module (N7-1). |
| 13.0 | | Non-USA vehicles only, continue to next test step. | – | – | – | – | – |
| 13.1 | | ATA status indicator (E33) | A37  30 —( (3.16) | A37 1 (2) | Insert bridge, part no. 124 589 37 63 00 | ATA status LED illuminated. | S85/2, S6/1s2 wiring circuit. |


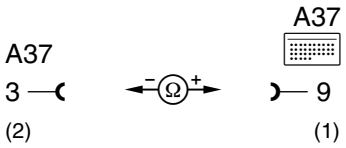

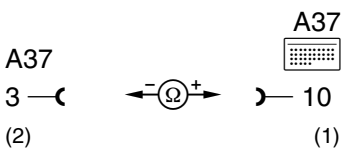



Electrical Test Program – Test

| ⇒ |  | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|------|---|---|-----------------|----------------|---------------|-----------------------|
| 14.0 | B1725 | <i>Non-USA vehicles only, continue to next test step.</i> | – | – | – | – |
| 14.1 | | <i>Non-USA vehicles only, continue to next test step.</i> | – | – | – | – |
| 15.0 | B1221 B1723 | <i>Non-USA vehicles only, continue to next test step.</i> | – | – | – | – |
| 15.1 | | <i>Non-USA vehicles only, continue to next test step.</i> | – | – | – | – |
| 15.2 | | <i>Non-USA vehicles only, continue to next test step.</i> | – | – | – | – |
| 16.0 | B1724 | <i>Non-USA vehicles only, continue to next test step.</i> | – | – | – | – |
| 16.1 | | <i>Non-USA vehicles only, continue to next test step.</i> | – | – | – | – |
| 16.2 | | <i>Non-USA vehicles only, continue to next test step.</i> | – | – | – | – |


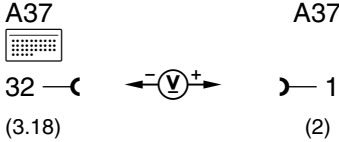
Electrical Test Program – Test

| ⇒ |  | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|------|---|--|---|---|---------------|-----------------------|
| 17.0 | B1021 | CAN L data line PSE/combination control module (N10-1) -//- | A37  9 —  — 62 (1) (A) | Disconnect A37 from  Disconnect combination control module (N10-1). | < 1 Ω | Wiring. |
| 18.0 | B1021 | CAN H data line PSE/combination control module (N10-1) -//- | A37  10 —  — 78 (1) (A) | Disconnect A37 from  Disconnect combination control module (N10-1). | < 1 Ω | Wiring. |
| 19.0 | B1021 | CAN L data line PSE/combination control module (N10-1) Γ1+ | A37  9 —  — 1 (1) (2) | Disconnect A37 from  Disconnect ground from  Disconnect combination control module (N10-1). | >20 kΩ | Wiring. |
| 20.0 | B1021 | CAN H data line PSE/combination control module (N10-1) Γ1+ | A37  10 —  — 1 (1) (2) | Disconnect A37 from  Disconnect ground from  Disconnect combination control module (N10-1). | >20 kΩ | Wiring. |

Electrical Test Program – Test

| ⇒ |  | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|------|---|--|--|---|---------------|-----------------------|
| 21.0 | B1021 | CAN L data line PSE/combination control module (N10-1) Γ1- |  | Disconnect A37 from  . Disconnect combination control module (N10-1). | >20 kΩ | Wiring. |
| 22.0 | B1021 | CAN H data line PSE/combination control module (N10-1) Γ1- |  | Disconnect A37 from  . Disconnect combination control module (N10-1). | >20 kΩ | Wiring. |
| 23.0 | B1021 | CAN H/CAN L data line PSE/combination control module (N10-1) Γ1 to each other |  | Disconnect A37 from  . Disconnect combination control module (N10-1). | >20 kΩ | Wiring. |

Electrical Test Program – Test

| ⇒ |  | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|------|---|---|---|---|-------------------------------|---------------------------|
| 24.0 | | Non-USA vehicles only, continue to next test step. | | – | – | – |
| 25.0 | | Non-USA vehicles only, continue to next test step. | | – | – | – |
| 26.0 | B1021 | Glove box switch (S62/7) (ATA) alarm circuit | <p>A37</p>  <p>32 — (3.18) — 1 (2)</p> | <p>Glove box</p> <p>closed open</p> | <p>< 1 V 11 – 14 V</p> | <p>Wiring., S62/7</p> |

Programming

- After replacing combination control module (N10-1), the following coding must be performed, the menu item 5 appears on the HHT's display.
- Only after programming is the ATA function activated in the PSE control module (A37). The programm is menu-driven.

Possible programming

| | | |
|---|-----------|---------------|
| Version | Model 210 | |
| Country Version | | |
| Model: | Sedan | Station wagen |
|  USA | Version | Version |
| Anti-tow protection | — | — |