

A. 1984 Version

1. Driver's door

Open window, lock driver's or front passenger door with master key, wait for approx. 10 seconds, open driver's door with interior control – **alarm sounds** (Switch off alarm by unlocking the driver's or front passenger door).

2. Front passenger door

Open window, lock driver's or front passenger door with the master key, wait for approx. 10 seconds, open front passenger door with interior control – **alarm sounds** (Switch off alarm).

3. Rear door left

Open window, lock driver's or front passenger door with the master key, wait for approx. 10 seconds, open rear door with interior control – **alarm sounds** (Switch off alarm).

4. Rear door right

As under point 3.

5. Engine compartment

Lock driver's or front passenger door with the master key, wait for approx. 10 seconds, open engine hood through open window, raise engine hood – **alarm sounds** (Switch off alarm).

6. Trunk

- a) Lock driver's or front passenger door with the master key, unlock trunk with master key – it should not be possible to actuate the pushbutton. Again unlock driver's or front passenger door.
- b) Open trunk lid, lock driver's or front passenger door with the master key, wait for approx. 10 seconds, push and loosen contact switch in trunk lid – **alarm sounds** (Switch off alarm).

7. Ignition

Take a seat in the driver's seat, lock driver's door with the master key through the opened window, wait for approx. 10 seconds, switch on ignition – **alarm sounds** Measure duration of alarm (should be approx. 30 seconds).

8. Foot brake

After approx. 30 seconds with ignition switched on, actuate foot brake – **alarm sounds** (Switch off alarm).

9. Instrument cluster

Lock driver's door with master key, pull instrument cluster from instrument panel with extractor hook – **alarm sounds** (Switch off alarm).

82-0985 Function test anti-theft alarm (ATA)

10. Towing protection

Lock driver's door with master key, jack up vehicle until front and rear wheel are clear off the ground – **alarm sounds** (Switch off alarm).

Jack up vehicle front or rear until both front or rear wheels are clear off the ground – **alarm sounds** (Switch off alarm).

B. 1985 Version

1. Driver's door

Open window, lock driver's or front passenger door with master key, wait for approx.

10 seconds, open driver's door with interior control – **alarm sounds** (Switch off alarm by unlocking the driver's or front passenger door).

2. Front passenger door

Open window, lock driver's or front passenger door with the master key, wait for approx.

10 seconds, open front passenger door with interior control – **alarm sounds** (Switch off alarm).

3. Rear door left

Open window, lock driver's or front passenger door with the master key, wait for approx.

10 seconds, open rear door with interior control – **alarm sounds** (Switch off alarm).

4. Rear door right

As under point 3.

5. Engine compartment

Lock driver's or front passenger door with the master key, wait for approx. 10 seconds, open engine hood through open window, raise engine hood – **alarm sounds** (Switch off alarm).

6. Trunk

Open trunk lid, lock driver's or front passenger door with the master key, wait for approx. 10 seconds, press and loosen contact switch in trunk lid – **alarm sounds** (Switch off alarm).

7. Ignition

Take a seat in the driver's seat, lock driver's door with master key through the open window, wait for approx. 10 seconds, switch on ignition – **alarm sounds** Measure duration of alarm (should be approx. 60 seconds alarm, 30 seconds pause, 60 seconds alarm).

8. Foot brake

After approx. 150 seconds with ignition switched on, actuate foot brake – **alarm sounds** (Switch off alarm).

9. Radio

Lock driver's door with master key, remove radio – **alarm sounds** (Switch off alarm).

82-0985 Function test anti-theft alarm (ATA)

10. Towing protection

Lock driver's door with master key, jack up vehicle until front and rear wheel are clear off the ground – **alarm sounds** (Switch off alarm).

Jack up vehicle front or rear until both front or rear wheels are clear off the ground – **alarm sounds** (Switch off alarm).

C. Version as of 09/86

Note

The electrical connection set 201 589 00 99 00 must be extended by two lines, order no. 809509.

Commercially available testers

Multimeter

e.g. Sun DMM-5

Test steps

1. Checking voltage supply for control unit.
2. Check switching on and off of ATA.
3. Check release contacts and wires.
4. Check acoustic alarm signal and wires.

82-0985 Function test anti-theft alarm (ATA)

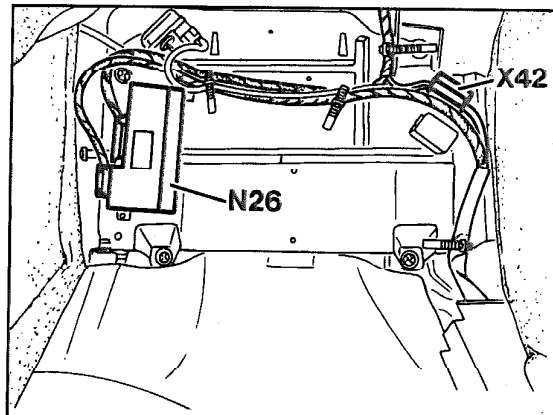
X00	Accessory equipment connector block	Z	End sleeve (soldering connector in cable harness)
X34/1	Left front door contact switch intermediate connector	b	N2/4 Pin 2
X37/1	Connector ATA cable harness front left	c	Instrument cluster warning buzzer
X37/2	Connector ATA cable harness front right	d	Switch dome lamp rear
X40	ATA connector (radio) (1-pole)	e	Feed fuse 7 terminal 15
X41	Roof light bar separation point	f	Entrance lamp rear right
X42	ATA connector (front/rear)	l	No function with ATA
X43	ATA connector (CL system) (3-pole)		Dashed lines are included in series production.

Note

Z-end sleeve (soldering connector in cable harness) is no longer included as of 09/87. Lines are looped on coupling of component, e.g. M14/2.

Preparation for all test steps

- 1 Check fuse no. 15.
- 2 Pull 8-pole and 14-pole couplings off control unit N26.

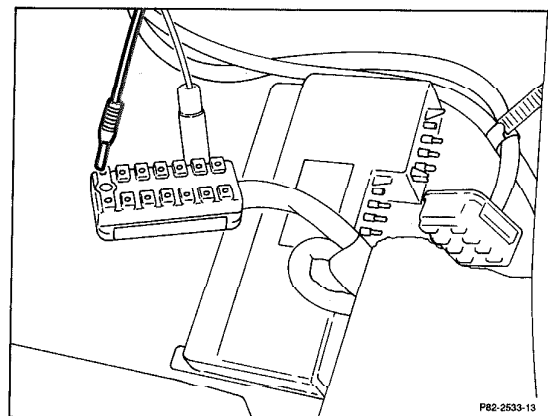


P82-2541-13

- 3 Check coupling pins for sound soldering connection and contact. Check the pins with a gauge, they must not be flared.

Note

The plug of line no. 809509 from the electrical connection set 201 589 00 99 00 can be used as a gauge.



P82-2533-13

Test step 1

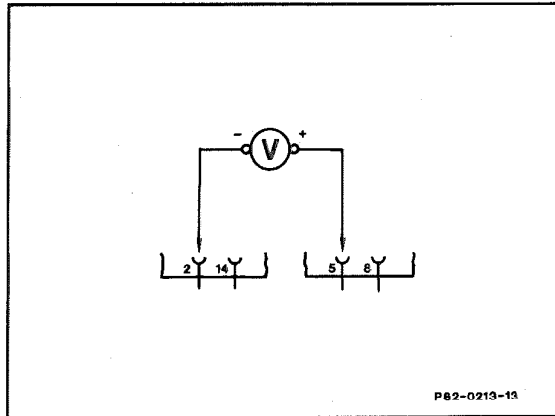
Check voltage supply for control unit N26 on 8-pole coupling.

Voltmeter on pins -2
 +5

Nominal value > 11 V

Yes

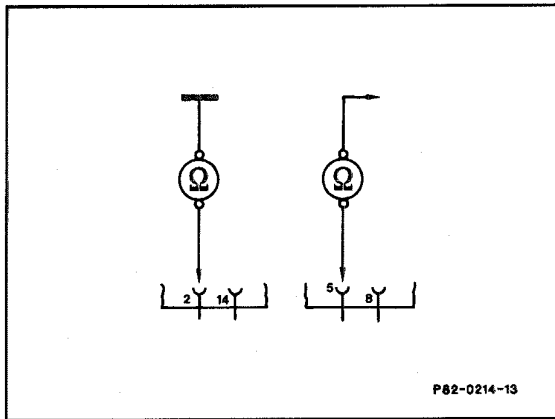
No



P82-0213-13

P82-0213-13

Check red/white line from pin 5 to connector X42 pin 7 and from there to special equipment terminal X30 (see wiring diagram). Check brown line from pin 2 to special equipment terminal X30 pin 3 (terminal 31) for continuity, correct if required.



P82-0214-13

P82-0214-13

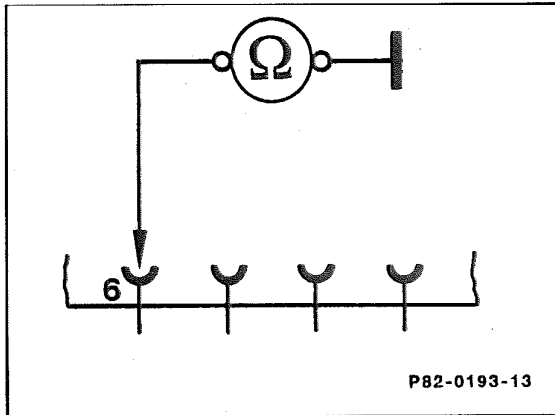
Test step 2

Check switching on and off functions of ATA. Check function of switches on locking cylinders of front left and right doors and lines from the switches to the 8-pole coupling control unit N26 for continuity.

1. Switching on ATA

Ohmmeter to pin 6 and ground, turn key in left door to the right and in right door to the left and hold.

Nominal value < 0.5 Ω



P82-0193-13

P82-0193-13

82-0985 Function test anti-theft alarm (ATA)

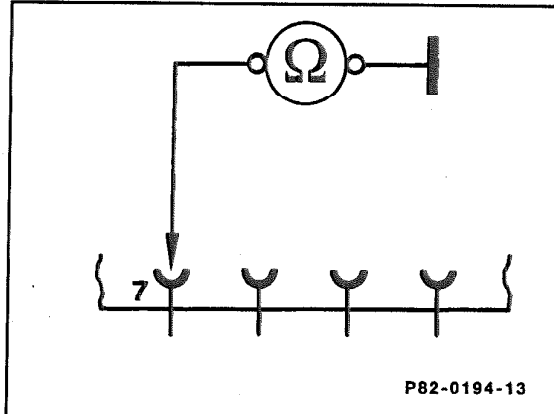
2. Switching off ATA

Ohmmeter to pin 7 and ground, turn key of left door to the left and of right door to the right and hold.

Nominal value $< 0.5 \Omega$

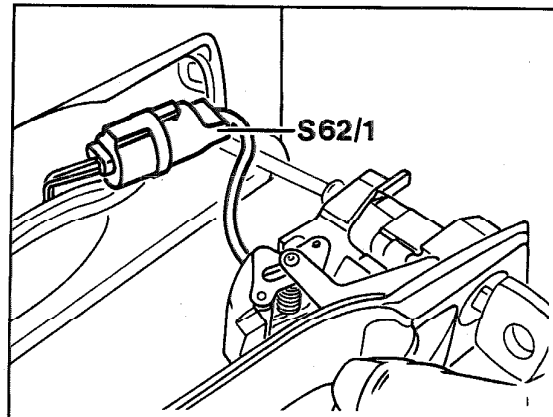
Yes

No



P82-0194-13

Remove connector on S62/1 of the left or right door.



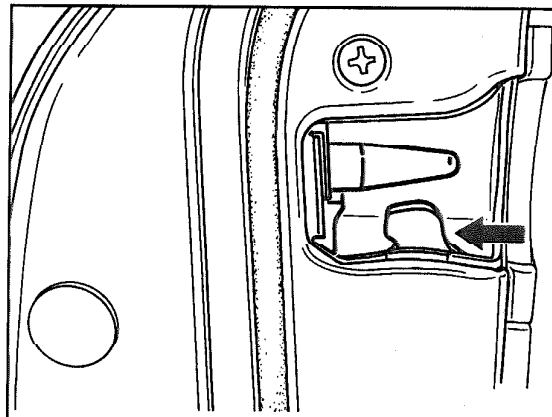
P82-2545-13

Test step 2.1

Check function of switch on locking cylinders of front left and right doors.

Note

Before switching on the ATA with door open, the latch of the left front door lock must be brought into the "closed door position" (arrow). Before closing the left front door, the latch must be brought into the "open door position" with the interior control.



P82-2543-13

1. ATA switch on

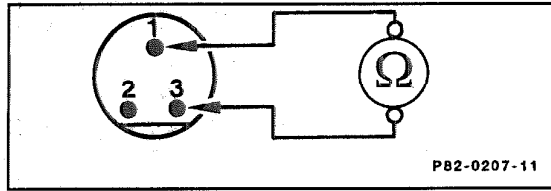
Ohmmeter on plugs 1 and 3, turn key in left door to the right and in right door to the left and hold.

Nominal value < 0.5 Ω

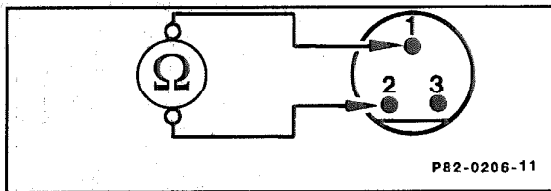
2. ATA switch off

Ohmmeter on plugs 1 and 2, turn key in left door to the left and in right door to the right and hold.

Nominal value < 0.5 Ω



P82-0207-11

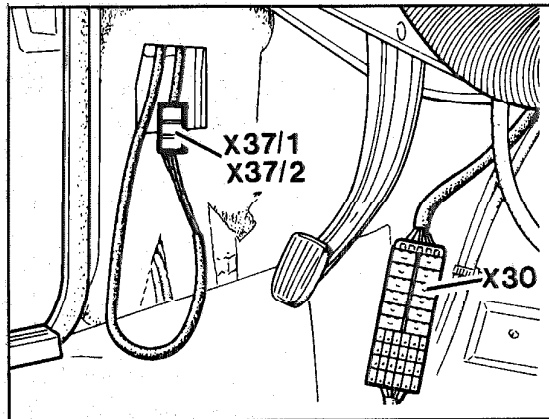


P82-0206-11

Yes	No
-----	----

Replace locking cylinder of left or right door.

Check brown line from pin 1, green/yellow line from pin 2 and blue/yellow line from pin 3 for continuity. The lines run to the 8-pole coupling of the control unit N26 via the connectors X37/1 or X37/2 (see wiring diagram). If no interruption is noted, replace control unit N26.



P82-2776-13

82-0985 Function test anti-theft alarm (ATA)

Test step 2.2

Check switching on and off of ATA on trunk lid lock. It is assumed that the vehicle can be centrally locked and unlocked from the trunk lid lock.

Check lines between plug of connector X43 and 14-pole coupling of control unit N26 for continuity.

Ohmmeter on
plug and pin

1	4
2	6
3	5

Nominal value $< 0.5 \Omega$

Yes

No

Correct interruption.

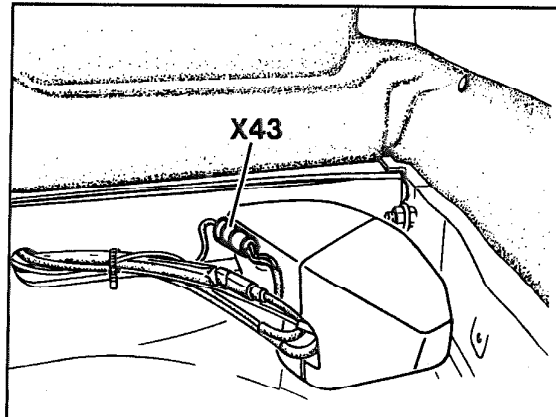
Test step 3

Check triggering contacts and lines on 14-pole coupling N26.

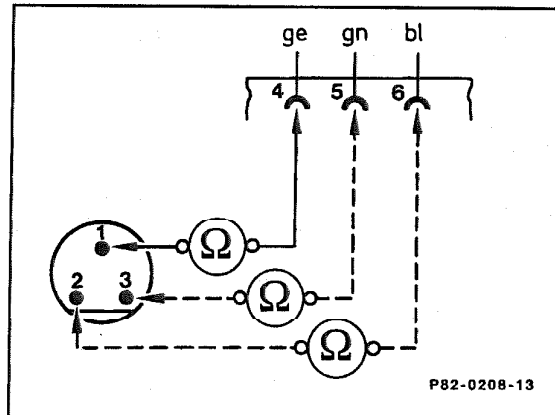
Note

With ATA switched on (vehicle parked in the locked condition), alarm will be raised by the following triggering points after a delay of approx. 10 seconds:

3. When opening the left or right front door.
- 3.1 When opening the left or right rear door.
- 3.2 When opening the engine hood.
- 3.3 When opening the trunk lid.
- 3.4 When removing the radio.
- 3.5 When turning the key in the steering lock to position 2 (ignition on).
- 3.6 When actuating the service brake.
- 3.7 When towing the vehicle.



P82-2540-13



P82-0208-13

P82-0208-13

Checking triggering contacts (door contact switches) of left and right front doors.

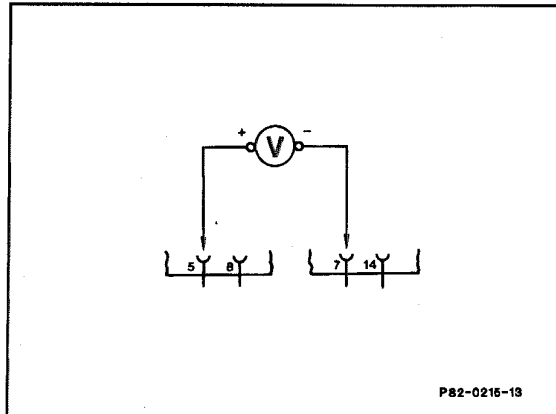
Voltmeter to pin 5 (+), pin 7 (-)

Door opened Nominal value > 11 V

Door closed Nominal value 0 V

Yes

No

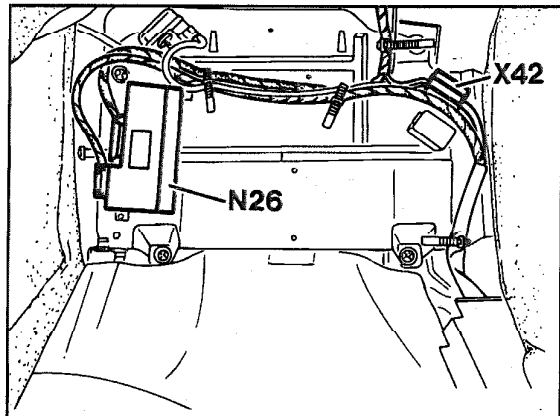


P82-0215-13

Check brown/grey line from pin 7 to door contact switch left or right for interruption or ground fault, correct if required.

Note

The lines are routed via connector X42 (see wiring diagram).



P82-2541-13

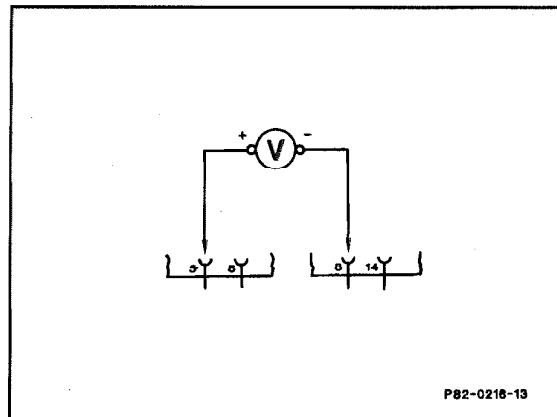
Test step 3.1

Checking triggering contacts (door contact switches) of left and right rear doors.

Voltmeter to pin 5 (+), pin 8 (-)

Door opened Nominal value > 11 V

Door closed Nominal value 0 V



P82-0216-13

82-0985 Function test anti-theft alarm (ATA)

Check brown/white black line from pin 8 to door contact switch left or right for interruption or ground fault, correct if required.

Note

The line is routed via connector X42 (see wiring diagram).

Test step 3.2

Check triggering contacts engine hood (engine hood switch).

Note

The engine hood switch must be pressed approx. 10 mm with engine hood closed.

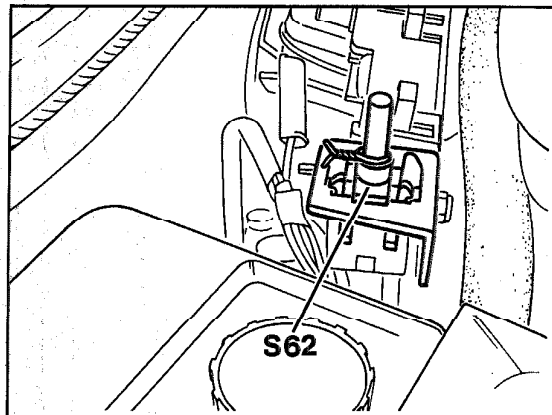
For testing, place a wire around the pin of the switch and secure so that it can be shifted up when the pin is pressed in.

Close engine hood and open again and measure the distance of the pushed up wire.

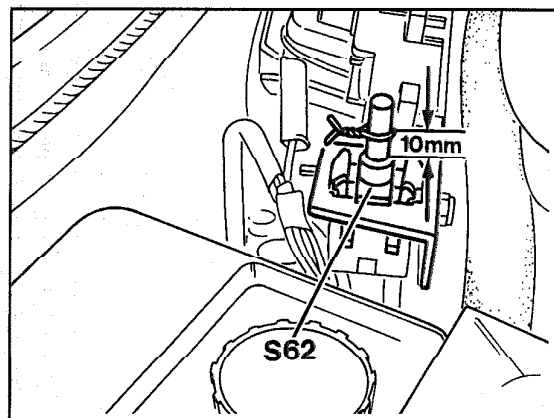
Voltmeter to pin 5 (+), pin 9 (-)

Engine hood open Nominal value > 11 V

Engine hood closed Nominal value 0 V



P82-2546-13

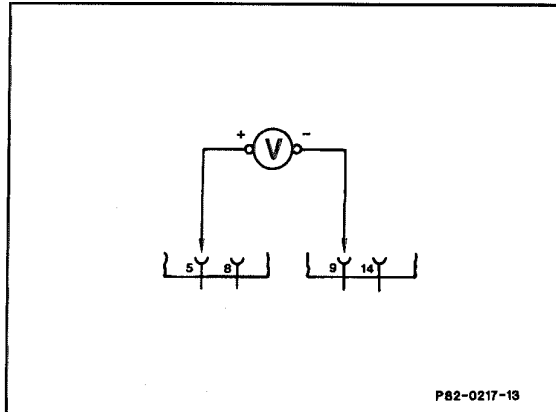


P82-2547-13

Yes	No
-----	----

Check brown/white/grey line from pin 9 to switch S62 and switch proper for interruption or ground fault, correct if required.

Note
The line is routed via connector X42 (see wiring diagram).



P82-0217-13

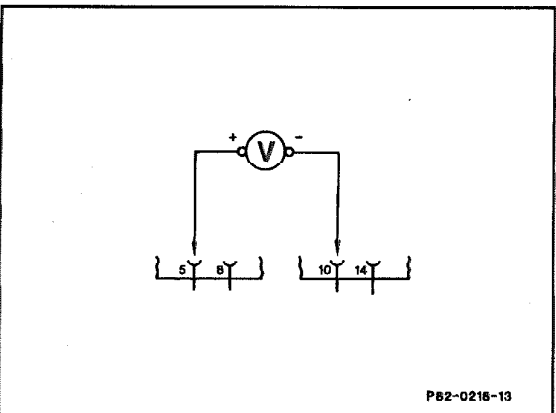
P82-0217-13

Test step 3.3

Triggering contact trunk lamp with switch

Voltmeter to pin 5 (+), pin 10 (-)

Trunk lid opened	Nominal value > 11 V
Trunk lid closed	Nominal value 0 V



P82-0218-13

P82-0218-13

Yes	No
-----	----

Check brown/white/red line from pin 10 to switch for interruption or ground fault, correct if required.

82-0985 Function test anti-theft alarm (ATA)

Test step 3.4

Checking triggering contact radio (safety contact radio).

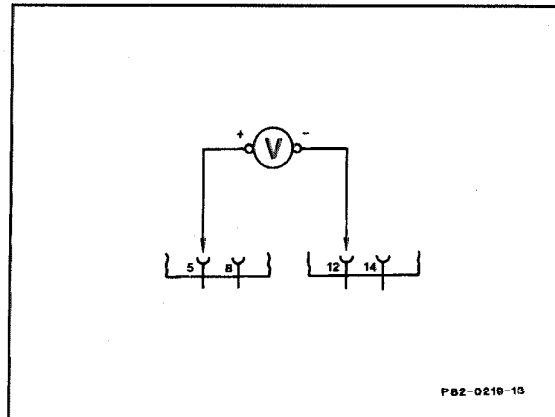
Voltmeter to pin 5 (+), pin 12 (-)

Radio installed Nominal value > 11 V

Radio removed Nominal value 0 V

Yes

No

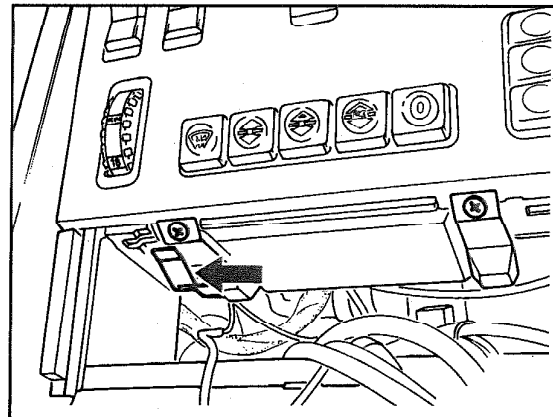


P82-0219-13

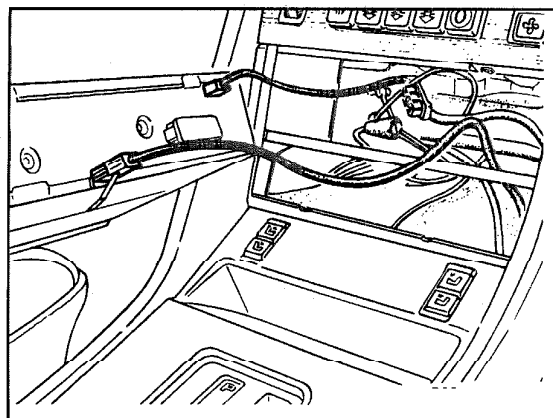
Check brown/blue line from pin 12 to safety contact radio for interruption or ground fault, correct if required.

Note

The line is routed via the connector X42 (see wiring diagram). As of approx. 11/86 a changed positive lock has been in use. The plug contact tongue is located in the radio housing rear in the center. It is imperative to ensure that the safety contact radio is properly mounted and in good contact with the radio housing.



P82-2551-13



P82-2535-13

82-0985 Function test anti-theft alarm (ATA)

Test step 3.5

Checking triggering contact starter switch (ignition on).

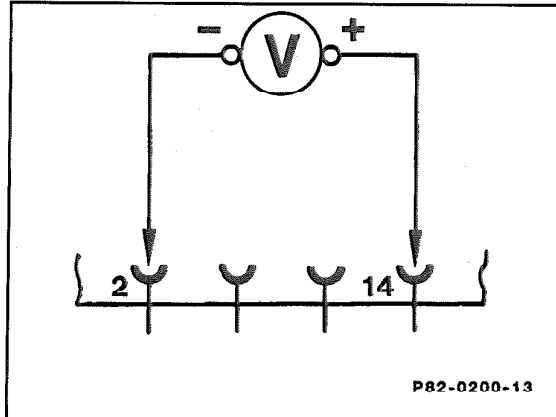
Voltmeter to pin 14 (+), pin 2 (-)
Turn key in steering lock to position 2.

Nominal value >11 V

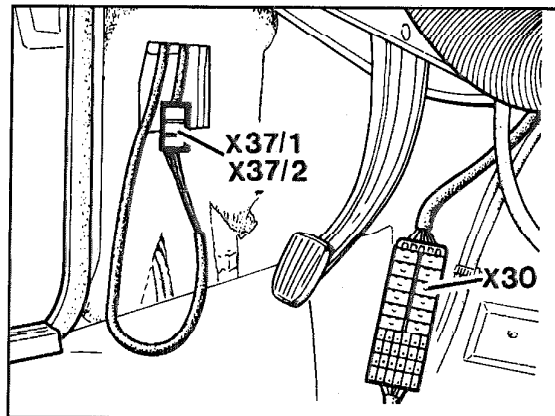
Yes

No

Check black/red/purple line from pin 14 to connector X30 pin 2 for interruption, correct if required.



P82-0200-13



P82 2776-13

82-0985 Function test anti-theft alarm (ATA)

Test step 3.6

Check triggering contact service brake (brake light switch).

Voltmeter to pin 13 (+), pin 2 (-)

Turn key in steering lock to position 2, actuate service brake.

Nominal value >11 V

Yes

No

Check black/red line from pin 13 to terminal block X21/2 for interruption, correct if required.

Note

The line is routed via connector X42 (see wiring diagram).

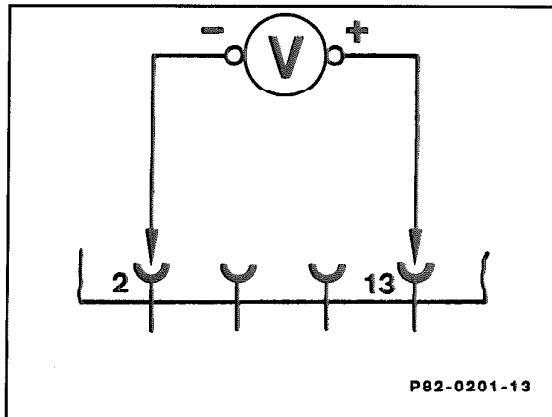
Test step 3.7

Checking triggering contact towing protection N27*.

Voltmeter to pin 5 (+), pin 11 (-), bridge pins 1 and 2 with connection line, pin up vehicle 50 mm.

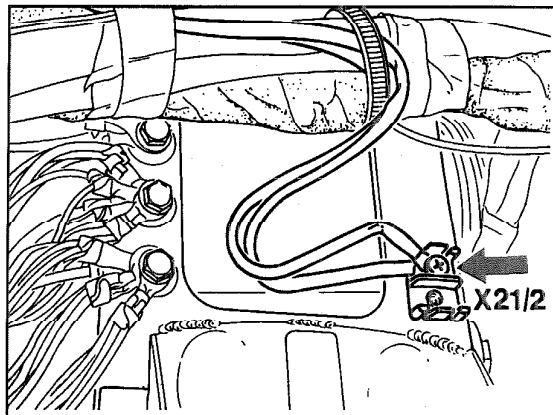
Nominal value 0 V

*no longer included as of 03/87

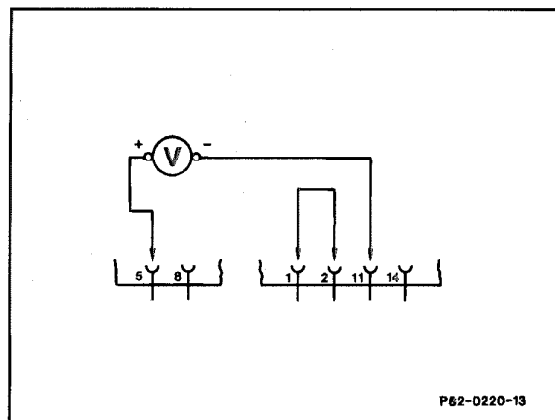


P82-0201-13

P82-0201-13



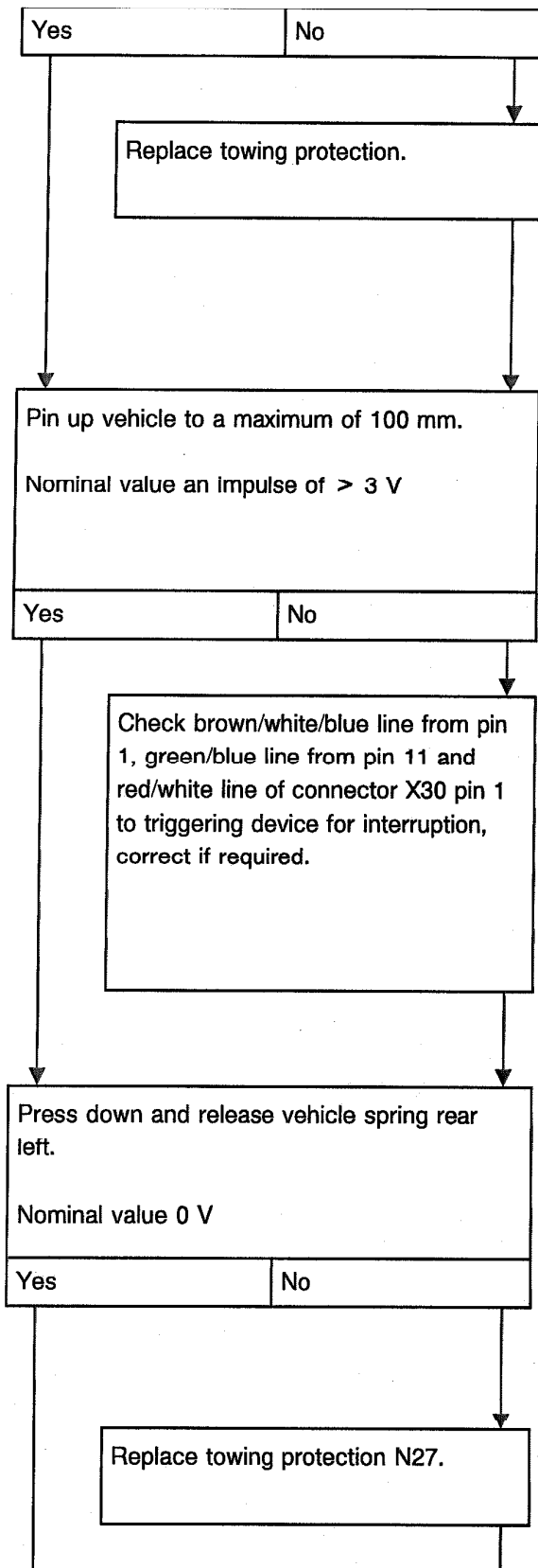
P82-2550-13



P82-0220-13

P82-0220-13

82-0985 Function test anti-theft alarm (ATA)



82-0985 Function test anti-theft alarm (ATA)

Test step 4

Check acoustic alarm signal and lines on 8-pole coupling N26.

Ohmmeter to pin 1 and ground.

Nominal value $< 0.5 \Omega$

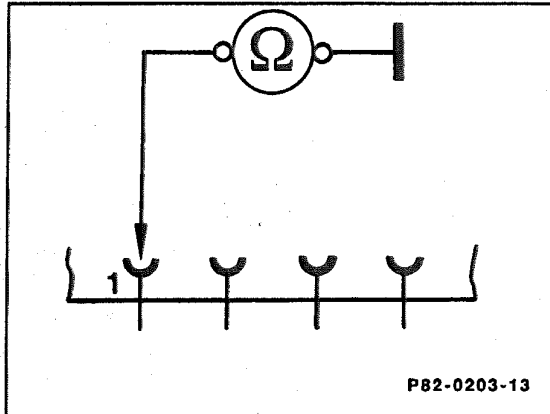
Yes

No

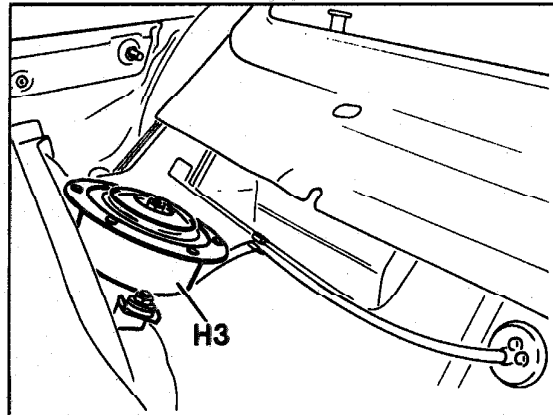
Check black/red/pink line from pin 1 to alarm signal horn H3 for interruption, correct if required.

Check function of alarm signal horn and negative line for alarm signal horn for interruption, correct if required.

If no fault is detected on the switches, the lines and the triggering contacts, the control unit N26 must be replaced.



P82-0203-13



P82-2544-13