# 13.2 Anti-Theft Alarm (ATA)

### **Contents**

#### 13.2 Model 140

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#### Note:

 Universal ATA control modules (such as used in models 129, 140, and 202) must be programmed according to menu point 5 on the HHT's display.

#### **ATA** control modules manufacturers:

Becker

Temic

### **Diagnosis – Technical Changes**

Prod. code	Model	LL¹) RL¹)	Manuf. plant	As of chassis number	•	As of production date	Up to production date	Type and reason for change	Reference/Remarks
WDB	140					12/93		Activation of starter relay module (K38): Vehicles with RCL via PSE control module.	
WDB	140							Radio contact deleted with later radio versions. (running change during M.Y. 1996)	

1) LL: Left hand drive RL: Right hand drive

Preliminary work:

Checking/replacing batteries for IRCL transmitter and synchronizing transmitter signal

SMS, Job No. 80-420

# Model 140 with RCL through model year 1995

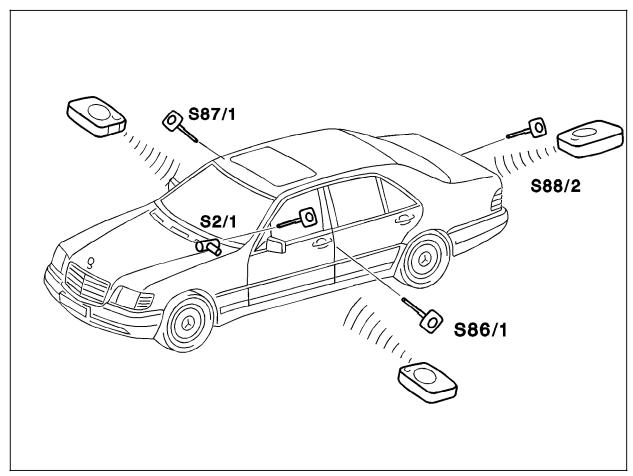


Figure 1

S2/1 Ignition/starter switch

S86/1 Left front door lock switch (CF)
S87/1 Right front door lock switch (CF)
S88/2 Trunk lid lock switch (CF)

P82-7238-55

Preliminary work:

Checking/replacing batteries for IRCL transmitter and synchronizing transmitter signal

SMS, Job No. 80-420

Model 140 with RCL (model 202 shown)

As of M.Y. 1996:

with IR receiver in rear view mirror and mechanical lock cylinders (USA), (J

As of M. Y. 1997:

IR receiver in rear view mirror deleted.

3 IR receivers added in front doors and trunk lid (as in Figure 1).

Mechanical lock cylinders retained

(USA), (J).

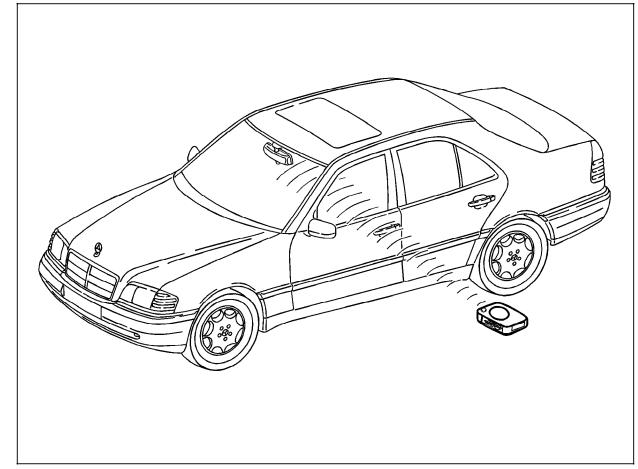


Figure 2

P80.30-0219-57



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

Test st	ep/Test scope	Test condition	Nominal value	Possible cause/Remedy 1)	
⇒ 1.0	Activate ATA via left front door	<ul> <li>Open driver's window.</li> <li>Lock driver's door with key.</li> <li>After approximately 15 seconds open door from inside.</li> <li>Deactivate ATA.</li> </ul>	Alarm horn sounds, lights flash.	23 ⇒ 6.0	
⇒ 2.0	Activate ATA via right front door	<ul> <li>Open passenger window.</li> <li>Lock passenger door with key.</li> <li>After approximately 15 seconds open door from inside.</li> <li>Deactivate ATA.</li> </ul>	Alarm horn sounds, lights flash.	23 ⇒ 6.0	
⇒ 3.0	Except Coupé Activate ATA via left or right rear door	<ul> <li>Open rear passenger window.</li> <li>Lock driver's door with key.</li> <li>After approximately 15 seconds open rear door from inside.</li> <li>Deactivate ATA.</li> </ul>	Alarm horn sounds, lights flash.	23 ⇒ 5.0	
⇒ 4.0	Activate ATA via engine hood	<ul> <li>Open driver's window.</li> <li>Lock left front door with key.</li> <li>Wait approximately 15 seconds.</li> <li>Release engine hood through open window of left front door.</li> <li>Open engine hood.</li> <li>Deactivate ATA.</li> </ul>	Alarm horn sounds, lights flash.	23 ⇒ 8.0	

Observe Preparation for Test, see 22.

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy 1)
⇒ 5.0 Activate ATA via trunk lid	<ul> <li>Open trunk lid.</li> <li>Lock driver's door with key.</li> <li>Turn off trunk lamp (rotary tumbler switch open).</li> <li>Wait approximately 15 seconds.</li> <li>Turn on trunk lamp (rotary tumbler switch closed).</li> <li>Deactivate ATA.</li> </ul>	Alarm horn sounds, lights flash.	23 ⇒ 7.0
⇒ 6.0 Activate ATA via ignition	<ul> <li>Sit in driver's seat.</li> <li>Open driver's window.</li> <li>Lock vehicle with key from driver's door by reaching through open window.</li> <li>Wait approximately 15 seconds.</li> <li>Turn ignition ON.</li> <li>Measure duration of alarm. (approx. 30 sec.).</li> <li>Deactivate ATA.</li> </ul>	Alarm horn sounds, lights flash.	23 ⇒ 11.0

Observe Preparation for Test, see 22.

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy 1)
⇒ 7.0 Activate ATA via service brake	<ul> <li>Sit in driver's seat.</li> <li>Open driver's window.</li> <li>Lock vehicle with key from driver's door by reaching through open window.</li> <li>Wait approximately 15 seconds.</li> <li>Turn ignition ON.</li> <li>Measure duration of alarm. (approx. 30 sec.).</li> <li>When alarm cycle ends, with ignition ON, step on service brake.</li> <li>Deactivate ATA.</li> </ul>	Alarm horn sounds, lights flash.  Alarm horn sounds, lights flash.	23 ⇒ 9.0
⇒ 8.0 Activate ATA via Radio (running change during M. Y.1996)	<ul> <li>Sit in driver's seat.</li> <li>Open driver's window.</li> <li>Lock vehicle with key from driver's door by reaching through open window.</li> <li>Wait approximately 15 seconds.</li> <li>Remove radio.</li> <li>Deactivate ATA.</li> <li>Note: After Function Test radio must be recoded.</li> </ul>	Alarm horn sounds, lights flash.	23 ⇒ 10.0 Radio contact separated.

<sup>1)</sup> Observe Preparation for Test, see 22.

Test step	o/Test scope	Test condition	Nominal value	Possible cause/Remedy 1)
⇒ 9.0	Not applicable for U.S.A. vehicles	_	_	_
⇒ 10.0	Not applicable for U.S.A. vehicles	_	_	_
⇒ 11.0	Not applicable for U.S.A. vehicles	_	_	_
⇒ 12.0	ATA indicator	<ul><li>Lock vehicle.</li><li>Wait approximately 15 seconds.</li></ul>	LED in center console blinks.	23 ⇒ 26.0
⇒ 13.0	Starter lock-out 2)	<ul> <li>Open driver's window.</li> <li>Sit in driver's seat.</li> <li>Lock vehicle with key from driver's window by reaching through open window .</li> <li>Wait approximately 15 seconds.</li> <li>Start engine.</li> <li>Unlock vehicle.</li> <li>Start engine.</li> </ul>	Alarm sounds, engine <b>will not</b> crank. Engine starts.	23 ⇒ 25.0
⇒ 14.0	Not applicable for U.S.A. vehicles	_	_	_
⇒ 15.0	Not applicable for U.S.A. vehicles	_	_	_

<sup>1)</sup> Observe Preparation for Test, see 22.

<sup>2)</sup> As of 01/94, starter lock-out function controlled by central locking system (PSE control module).

#### **Diagnosis – Diagnostic Trouble Code (DTC) Memory**

#### **Preparation for Test**

1. Connect impulse counter scan tool or Hand-Held Tester (HHT) according to connection diagram (see section 0).

#### Note:

ATA deactivated.

Connect yellow wire to socket 23 of 38-pole data link connector (X11/4).

DTC readout begins with the most current fault and ends with the oldest (logic: last in, first out).

#### **Electrical wiring diagrams:**

Electrical Troubleshooting Manual, Model 140, Volume 2, group 80 and 82.

### **Diagnosis – Diagnostic Trouble Code (DTC) Memory**

DTC		Possible cause	Test step/Remedy 1)
1	001	No DTC stored in system.	
2	002	ATA activated via rotary tumbler/ trunk lid microswitch (S88/1)	23⇒ 7.0
3	003	ATA activated via engine hood switch (S62)	23⇒ 8.0
5	005	ATA activated via left/right rear door switch (S17/5, S17/6)	23⇒ 5.0
6	006	ATA activated via left/right door switch (S17/3, S17/4)	23⇒ 6.0
٦	700	Not applicable for U.S.A. vehicles	-
8	008	Not applicable for U.S.A. vehicles	-
10	010	ATA activated via radio (A2) (radio contact) (running change during M.Y. 1996)	23⇒ 10.0
15	015	ATA activated via ignition (S2/1)	23⇒ 11.0
14	014	ATA activated via brake switch (S9/1)	23⇒ 9.0
15	015	Not applicable for U.S.A. vehicles	-
16	016	Not applicable for U.S.A. vehicles	-
17	רום	Not applicable for U.S.A. vehicles	-
18	018	Not applicable for U.S.A. vehicles	-
19	019	ATA control module (N26)	N26

<sup>1)</sup> Observe Preparation for Test, see 22.

# **Diagnosis – Diagnostic Trouble Code (DTC) Memory**

DTC	°	Possible cause	Test step/Remedy 1)
20	020	Left front door actuator (S47), no ground	23⇒ 12.0
21	021	Temic control modules only Starter lock-out relay module (K38) shorted to circuit 30 in armed status	23⇒ 25.0
21	021	Becker control modules only ATA status indicator lamp (E33) shorted to circuit 30	23⇒ 15.0
22	022	Becker control modules only Starter lock-out relay module (K38) shorted to circuit 30 in armed status	23⇒ 25.0
55	022	Temic control modules only Open circuit to circuit 30 in armed status	23⇒ 1.0
23	023	Becker control modules only Open circuit to circuit 30 in armed status	23⇒ 1.0

<sup>1)</sup> Observe Preparation for Test, see 22.

#### **Diagnosis – Nominal Values**

The following tests and component activations are possible using the HHT.

#### Nominal values (function status)

- All door contacts including engine hood and trunk lid.
- Left front door lock switch (S86/1), right front door lock switch (S87/1), and trunk lid lock switch (S88/2) (arm/disarm ATA) up to 01/94.
- Ignition.
- · Service brake.
- Radio contact (running change during M. Y. 1996).
- Left front door actuator (S47).

# **Diagnosis - Nominal Values**

$\Rightarrow$		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	01	Circuit 15		Ignition: <b>OFF</b> Ignition: <b>ON</b>	OFF ON	23 ⇒ 1.0
2.0	02	Stop lamp switch (S9/1)		Ignition: <b>ON</b> Service brake applied not applied		22 ⇒ 9.0
3.0	03	ATA contact connector (radio) (X42/13) (running change during M.Y. 1996)		Radio installed, X42/13 connected Radio removed or X42/13 disconnected	ON OFF	23 ⇒ 10.0
4.0	04 05	Activation/deactivation of ATA via RCL on driver's door, passenger door or trunk lid		Using IR transmitter lock vehicle unlock vehicle	ON ON	23 ⇒ 2.0, 3.0, 4.0
5.0	04 05	Activation/deactivation of ATA via rotary tumbler lock on driver's door, passenger door or trunk lid (up to 01/94)		Using key at: passenger door lock vehicle unlock vehicle	ON ON	Vehicle uncoupled 23 ⇒ 2.0, 3.0, 4.0
6.0	06	Engine hood switch (S62)		Open engine hood Close engine hood	ON OFF	23 ⇒ 8.0

# **Diagnosis - Nominal Values**

$\Rightarrow$		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
7.0	רם	Left front door actuator (S47)	(d)	Vehicle unlocked Vehicle locked	OFF ON	23 ⇒ 12.0
8.0	08	Left/right door switch (S17/3, S17/4)		Both front doors closed Open driver's door Close driver's door Open passenger door	OFF ON OFF ON	23 ⇒ 6.0
9.0	09	Left/right rear door switch (S17/5, S17/6)		Both rear doors closed Open left rear door Close left rear door Open right rear door	OFF ON OFF ON	23 ⇒ 5.0
10.0	10	Rotary tumbler/trunk lid microswitch (S88/1)	(III	Trunk lid closed open		23 ⇒ 7.0
11.0	15	Not applicable for U.S.A. vehicles	Carried States	-	_	_
12.0	05	Not applicable for U.S.A. vehicles	Carried States	-	_	_

### **Diagnosis – Activation**

The following components can be activated via the HHT:

- Alarm horn (H3).
- Headlamps.
- Starter lock-out relay module (K38) (up to 01/94).
- ATA status indicator (E33).
- Backup lamps.

### **Diagnosis – Activation**

$\Rightarrow$		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	1	Alarm horn (H3)		Press F2 Press F3	ON, Horn signals OFF	23 ⇒ 13.0
2.0	2	ATA status indicator (E33)		Press F2 Press F3	ON OFF, ATA indicator illuminates	23 ⇒ 26.0
3.0	3	Starter lock-out relay module (K38) 1) Vehicles with ATA status indicator (E33)		Press F2 Turn ignition key to position "3" (circuit 50) Press F3	ON Engine will not start OFF Engine starts	23 ⇒ 25.0
4.0	4 5 6	Not applicable for U.S.A. vehicles		_	_	_
5.0	4	Not applicable for U.S.A. vehicles		-	_	-
6.0	Ч 5	Headlamps		Press F2	ON Headlamps illuminate	23 ⇒ 16.0
7.0	Ч 5	Backup lamps		Press F2	ON Backup lamps illuminate	23 ⇒ 17.0, 18.0

<sup>1)</sup> As of 01/94, the starter lock-out function is controlled by the central locking system (PSE control moduel).

# Diagnosis – Activation

$\Rightarrow$		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
8.0	6 7	Not applicable for U.S.A. vehicles		_	_	_
9.0	6 7	Not applicable for U.S.A. vehicles		_	_	_
10.0	0	Not applicable for U.S.A. vehicles		_	_	_

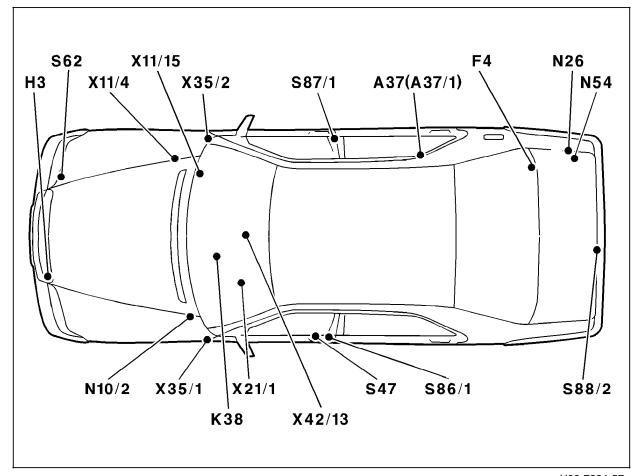
#### **Electrical Test Program – Component Locations**

#### Up to 05/96

#### Figure 1

K38

A37 PSE control module (A37/1) F4 Rear fuse box НЗ Alarm horn N10/2 Combination relay module (turn signal, heated rear window, wiper motor, ATA) N26 ATA control module RCL control module N54 S47 Left door actuator S62 Hood switch Interior CL switch S85 S86/1 Left front door lock switch S87/1 Right front door lock switch S88/2 Trunk lid lock switch X11/4 Data link connector X11/15 Diagnostic intermediate connector X21/1 Terminal block X35/1 Left front door separation point X35/2 Right front door separation point



U82-7234-57

X42/13 ATA contact connector (radio)
Up to 01/94

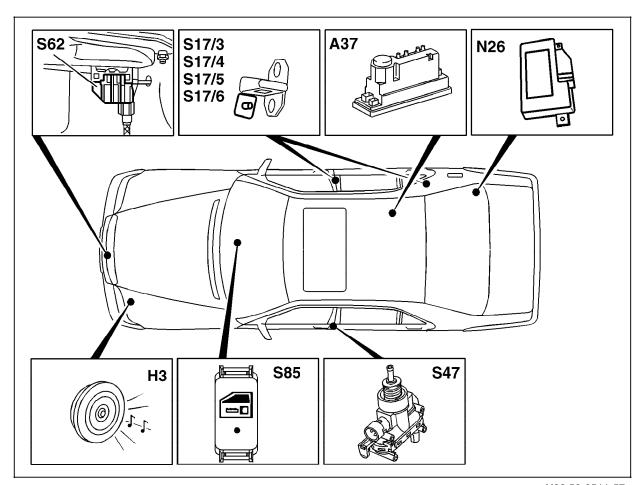
Starter lock-out relay module

### **Electrical Test Program – Component Locations**

#### As of 06/96

Figure 2

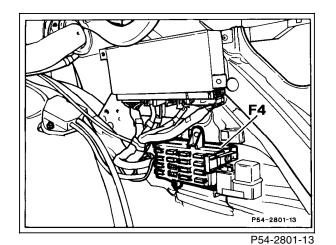
A37 PSE control module, combined functions НЗ Alarm horn N26 ATA control module S17/3 Left front door switch S17/4 Right front door switch S17/5 Left rear door switch S17/6 Right rear door switch S47 Left door actuator S62 Hood switch S85 Interior CL switch

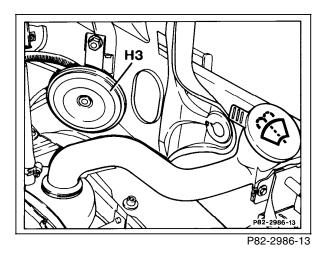


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21/3

### **Electrical Test Program – Component Locations**





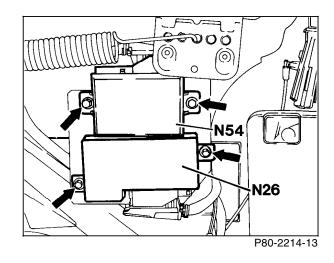
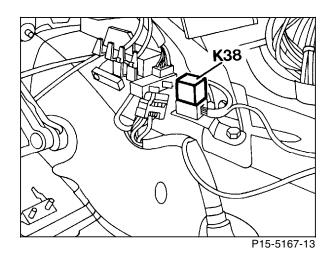


Figure 3
F4 Fuse box in trunk

Figure 4
H3 Alarm horn

Figure 5
N26 ATA control module
N54 RCL control module

### **Electrical Test Program – Component Locations**



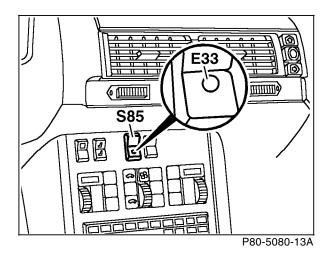


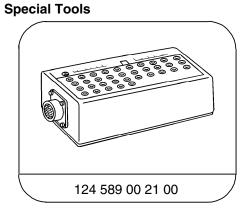
Figure 6
K38 Starter lock-out relay module

Figure 7
E33 ATA status indicator
S85 Interior CL switch

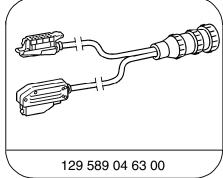
#### **Electrical Test Program – Preparation for Test**

- 1. Battery voltage 11–14 V.
- 2. Fuses F1/1-1, F1/1-7 okay.
- 3. Central locking system okay.
- 4. RCL okay.
- 5. Parking lamps, headlamps, fog lamps, directionals and brake lamps okay.

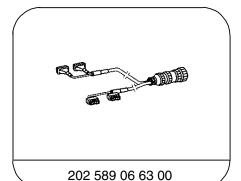
#### •



35-pin socket box

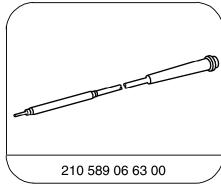


33-pin test cable



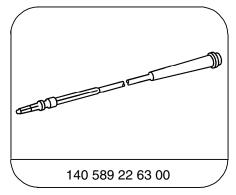
**Electrical wiring diagrams:** 

Test cable, 20 pin



Electrical Troubleshooting Manual, Model 140, Volume 2, groups 80and 82.

Adapter cable



Adapter cable

### **Electrical Test Program – Preparation for Test**

**Conventional tools, test equipment** 

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

<sup>1)</sup> Available through the MBUSA Standard Equipment Program.

### **Electrical Test Program – Preparation for Test**

#### **Connection Diagram – Socket Box**

Figure 1

N26

001 ATA control module connector 002 Test cable 003 Digital multimeter 004/050 Socket box

ATA control module

P80-0181-57A

$\Rightarrow$		Test scope	Test connection		Test condition	Nominal value	Possible cause/Remedy
1.0	053 055	ATA control module (N26) Voltage supply Circuit 30 Circuit 15	l .	<b>)</b> — 2 <b>)</b> — 18	Ignition: <b>ON</b>	11 – 14 V 11 – 14 V	Wiring, ⇒ 1.1
2.0		Left front door lock switch (S86/1, up to 01/94) or Activation via RCL	N26 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	<b>)</b> — 2	Ignition: <b>OFF</b> Hold key in unlock position or depress and hold IR transmitter button (green lamp flashes).	< 1 V 11 – 14 V	Wiring, PSE control module (A37) (see D.M., Body and Accessories, Vol. 1, section 3.1 23), RCL (see D.M., Body and Accessories, Vol. 1, section 4.2 23).
			19 — <b>(</b> —— <b>(</b> ) +	<b>)</b> — 2	Hold key in lock position or depress and hold IR transmitter button (red lamp flashes).	11 – 14 V	

$\Rightarrow$	Test scope	Test conn	ection	Test condition	Nominal value	Possible cause/Remedy
3.0	Right front door lock switch (S87/1, up to 01/94) or Activation via RCL	11 — <b>ఁ</b>	N26	Ignition: <b>OFF</b> Hold key in unlock position or depress and hold IR transmitter button (green lamp flashes).  Hold key in lock position or depress and hold IR	< 1 V 11 – 14 V 11 – 14 V	Wiring, PSE control module (A37) (see D.M., Body and Accessories, Vol. 1, section 3.1 23), RCL (see D.M., Body and Accessories, Vol. 1, section 4.2 23).
				transmitter button (red lamp flashes).		
4.0	Trunk lid lock switch (S88/2, up to 01/94) or Activation via RCL	11—(	N26 ₩₩ N26 ₩₩	Ignition: <b>OFF</b> Hold key in lock position or depress and hold IR transmitter button (red lamp flashes).	< 1 V 11 – 14 V	Wiring, PSE control module (A37) (see D.M., Body and Accessories, Vol. 1, section 3.1 23), RCL (see D.M., Body and Accessories, Vol. 1, section 4.2 23).
		19 <b> (</b>	<u> </u>	Hold key in unlock position or depress and hold IR transmitter button (green lamp flashes).	11 – 14 V	

$\Rightarrow$		Test scope	Test conn	ection	1	Test condition	Nominal value	Possible cause/Remedy
5.0	005	Except Coupé Left/right rear door switch (S17/5, S17/6) alarm circuit	25 — <b>(</b>	N26 <u>■</u> — <u>*</u> • • • • • • • • • • • • • • • • • • •	2 0	Close left/right rear door. Open left/right rear door and then close .	< 1 V	Wiring, S17/5, S17/6, PSE control module (A37) (see D.M., Body and Accessories, Vol. 1, section 3.1 23).
6.0	006	Left/right front door switch (S17/3, S17/4) alarm circuit	24 — <b>(</b>	N26 	2 0	Close left/right front door.  Open left/right front door and then close .	< 1 V	Wiring, S17/3, S17/4, PSE control module (A37) (see D.M., Body and Accessories, Vol. 1, section 3.1 23).
7.0	002	Rotary tumbler/trunk lid microswitch (S88/1) alarm circuit	26 — <b>(</b>	N26 <u>□</u> <u>U</u> ±	2 r	Close rotary lock switch by nand.  Open rotary lock switch by nand.	< 1 V	Wiring, PSE control module (A37) (see D.M., Body and Accessories, Vol. 1, section 3.1 23).
8.0	003	Engine hood switch (S62) alarm circuit	27 — <b>(</b>	N26 <u>■</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u>		Engine hood closed. Engine hood open.	< 1 V 11 – 14 V	Wiring, S62, N26.

$\Rightarrow$		Test scope	Test connection	on	Test condition	Nominal value	Possible cause/Remedy
9.0	014	Stop lamp switch alarm circuit	4— <b>(</b>		Ignition: <b>ON</b> Apply service brakes.	< 1 V 11 – 14 V	Wiring, Stop lamp switch (S9).
10.0	010	ATA contact connector (radio) alarm circuit (running change during M.Y. 1996)	17— <b>(</b> ——()	<b>!!!!!</b>	Radio installed and connector connected.  Radio removed.	11 – 14 V < 1 V	Wiring, ATA contact connector (X42/13), Radio ground.
11.0	012	Ignition alarm circuit	4— <b>(</b>	•	Ignition: <b>OFF</b> Ignition: <b>ON</b>	< 1 V 11 – 14 V	Wiring, Ignition/starter switch (S2/1).
12.0	020	Left front door actuator (S47)	32 — ( —— ( <u>)</u>	26 ∰ Û <sup>±</sup> → → 2	Disconnect RCL control module (N54) connector (vehicles up to 01/94 only).  Unlock vehicle at driver's door or via RCL.  Lock vehicle from driver's door or via RCL.	< 1 V 11 – 14 V	Wiring, S47

$\Rightarrow$	Test scope	Test cor	nection		Test condition	Nominal value	Possible cause/Remedy
13.0	Alarm horn (H3) 1)	2—(	N26	<b>)</b> — 13	Connect horn to circuit 30.	Horn sounds.	Wiring, H3.
14.0	Diagnosis output	22 —	N26 	<b>)</b> —2	Ignition: <b>OFF</b> Disconnect N26 connector Connect adapter for impluse counter to X11/4.  1—( ——————————————————————————————————	11 – 14 V	Wiring, N26.
15.0	Not applicable for U.S.A. vehicles	_	-	_	_	_	_
16.0	Headlamp alarm circuit 1)	2—(	N26	<b>)</b> — 12		Headlamps illuminate (low beams).	Wiring, Headlamp unit.

<sup>1)</sup> Can be activated using HHT.

$\Rightarrow$		Test scope	Test connection		Test condition	Nominal value	Possible cause/Remedy
17.0		Left taillamp unit, backup lamp (E3e3)	N26	<b>)</b> — 14		Left backup lamp illuminates.	Wiring, E3e3
18.0		Right taillamp unit, backup lamp (E4e3)	N26	<b>)</b> —3		Right backup lamp illuminates.	Wiring, E4e3
19.0	015 016 017 018	Not applicable for U.S.A. vehicles		-	_	_	_
20.0		ATA control module (N26) Voltage supply Circuit 30 output	N26 	<b>&gt;</b> —1	Connect to N26	11 – 14 V	⇒ 1.0, N26
21.0	008 016 017	Not applicable for U.S.A. vehicles		_	_	_	_

$\Rightarrow$		Test scope	Test connection		Test condition	Nominal value	Possible cause/Remedy
22.0	008 016 017 018	Not applicable for U.S.A. vehicles		-	_	_	_
23.0	015 016 017 018	Not applicable for U.S.A. vehicles		-	_	_	_
24.0		Not applicable for U.S.A. vehicles		-	_	_	_
25.0	021	Starter lock-out relay module (K38) 1) 2) Resistance	N26 	<b>)</b> — 18	Ignition: <b>OFF</b> Disconnect N26 connector.	50 – 60 Ω	Wiring, K38, ⇒ 25.1
25.1		Circuit 15	N26 	<b>)</b> — 18	Ignition: <b>ON</b>	11 – 14 V	Wiring, Circuit 15, ⇒ 25.2
25.2		Circuit 15	K38 	<b>&gt;</b> —4	Ignition: ON	11 – 14 V	Wiring, ⇒ 25.3

<sup>1)</sup> Can be activated using HHT.

<sup>2)</sup> As of 01/94, starter lock-out function controlled by central locking system (PSE control module).

$\Rightarrow$	Test scope	Test con	inection		Test condition	Nominal value	Possible cause/Remedy
25.3	Control signal (circuit 31) from N26	5 <b>(</b>	K38 <del>~¯</del> ( <u>V</u> ) <sup>±</sup> ►	<b>)</b> —4	Ignition: <b>ON</b>	11 – 14 V	Wiring, N26, ⇒ 25.4
25.4	K38 circuit 50	3 —€	K38 - <b>()</b> -		Disconnect K38. Using a 2.5mm wire (12 AWG), bridge K38, ignition switch to position "3" (start)	Engine starts.	Wiring, K38, Ignition/starter switch (S2/1), Starter (M1).
26.0	ATA status indicator (E33) in Interior CL switch (S85)	8—•	N26 - <b>()</b> -	<b>)</b> —2		ATA status indicator (E33) illuminates.	Wiring, ⇒ 2.0, 3.0, 4.0, 12.0, \$85, N26

$\Rightarrow$	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
27.0	Not applicable for U.S.A. vehicles		_	-	_
28.0	Not applicable for U.S.A. vehicles		_	-	_
29.0	Not applicable for U.S.A. vehicles		_	-	_
30.0	Not applicable for U.S.A. vehicles		_	-	_
31.0	Not applicable for U.S.A. vehicles		_	-	_
32.0	Not applicable for U.S.A. vehicles		_	-	_

#### **Version coding**

Menu item 5 on the HHT allows programming of those ATA control modules which require programming. Only upon completion of the programming is the control module operable. The programming is menu driven.

Follow the instructions shown on the HHT display screen.

#### Possible programming

Equipment	Model 140
Country version	X
ATA (USA)	
Delayed headlamp shutoff duration, 0 - 120 secs. (USA)	