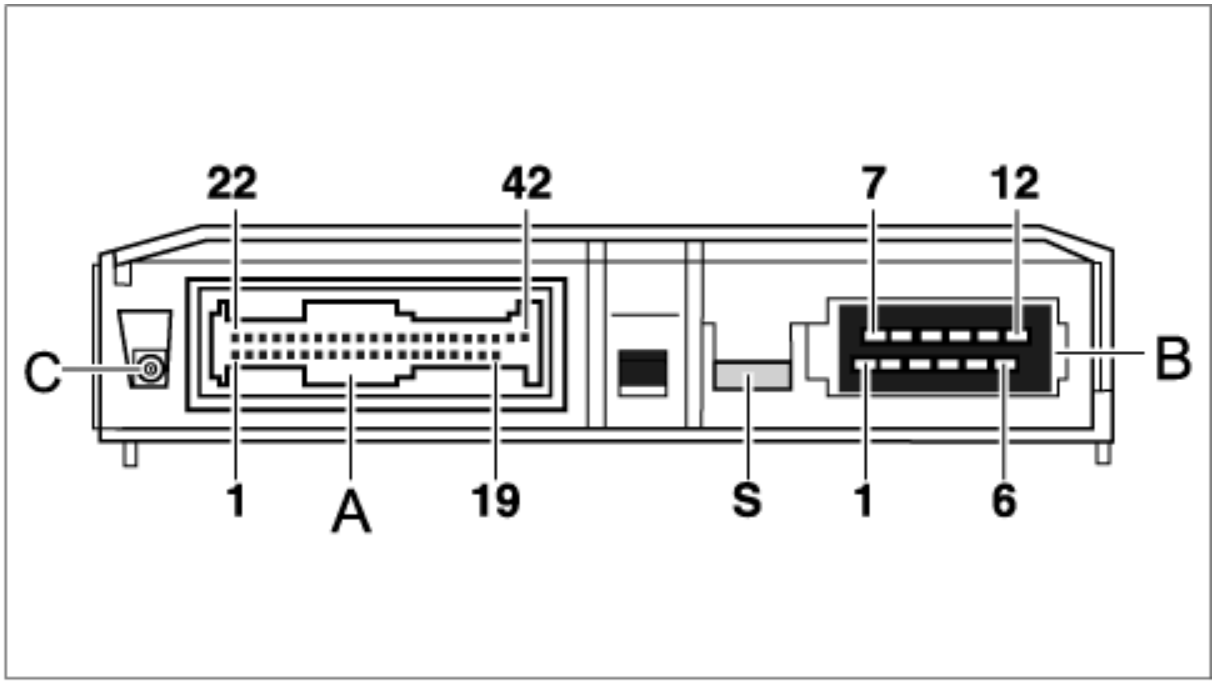
Connector assignment

Connector assignment for alarm system control module



A Connector A, 42-pin

B Connector B, 12-pin

C Connector C, radio antenna connection

S 15 A fuse

Connector A, 42-pin

Pin	Designation	Pin	Designation
1	Seat memory data	22	Reserved for Targa flap
2	K-lead (diagnosis)	23	Immobiliser lead
3	Signal converter data	24	Passenger compartment sensor data reception
4	Signal converter control	25	Door contact, driver's side
5	Door Safe - driver	26	Micro switch - oddments tray

Connector A, 42-pin

Pin	Designation	Pin	Designation
6	Reserved for convertible roof	27	Radio contact
7	Door contact, passenger	28	Door Safe micro switch - passenger
8	Passenger compartment sensor data transmission	29	Central locking switch
9	Lid release button	30	Door Locked micro switch - driver's side
10	"Lid open" display (instrument cluster)	31	Front lid micro switch
11	External switching contact	32	Door Locked micro switch - passenger's side
12	Airbag signal input	33	Front lid servomotor
13	Rear lid micro switch	34	Rear lid servomotor
14	Speed signal	35	Micro switch - door lock barrel closed
15	Micro switch - door lock barrel open	36	Pin 15
16	Pin 86 S	37	Lighting - front and rear lids
17	Reserved for glove compartment	38	External electronics control
18	Power window control	39	Function indicator
19	Safe motor closed	40	Comfort opening
20	Not used	41	Central locking switch - Locked display
21	Not used	42	Comfort closing

Connector B, 12-pin

Pin	Designation	Pin	Designation
1	Pin 31	7	Pin 30 and horn supply
2	Alarm horn	8	Pin 30 - external loads
3	Central locking servomotor open/closed	9	Locking motor closed
4	Load disconnection	10	Servomotor - tank cap closed
5	Servomotor - tank cap open	11	Interior light
6	Direction indicator light, left	12	Direction indicator light, left

Fault code 3

Door lock barrel open , actuated for longer than 60 s

Diagnostic conditions

- 60 s waiting time

Possible cause of fault

- Incorrect operation, door lock actuated to open for longer than 60 s
- Short circuit to voltage/ground or open circuit in the wiring between the alarm system control module and both door locks
- Door lock faulty

Affected terminals

Plug A, pin 15

Diagnosis/troubleshooting

Work instruction			Display OK	If not OK
1	Check wire between alarm system control module and door lock (driver/passenger) for short circuit to ground.	◆ Pull plug A off the control module. ◆ Pull plug off both door locks. ◆ Measure resistance between plug A pin 15 and ground.	Step 2	Repair wiring harness. -> End
2	Check wire between alarm system control module and door lock (driver/passenger) for short circuit to B+.	◆ Switch on ignition. ◆ Measure voltage between plug A on control module pin 15 and ground.	0 V Step 3	Repair wiring harness. -> End
3	Check wire between alarm system control module and door lock (driver/passenger) for open circuit.	◆ Switch off the ignition. ◆ Measure resistance between plug A pin 15 and plug on driver's door lock pin 6. ◆ Measure resistance between plug A pin 35 and plug on passenger's door lock pin 6.	< 5 Step 4	Repair wiring harness. -> End
4	Detect faulty door lock.	◆ Select Door lock barrel in the Input signals menu item. ◆ Connect plug on passenger's door lock.	Door lock barrel not actuated. Step 5	Step 6
5	Detect faulty door lock.	◆ Select Door lock barrel in the Input signals menu item. ◆ Connect plug on driver's door lock.	Door lock barrel not actuated.	Step 7
6	◆ Replace door lock on passenger's side.		-> End	
7	◆ Replace door lock on driver's side.		-> End	

Fault code 25

No pin 86 S recognised

Diagnostic conditions

- Ignition on

Possible cause of fault

- Pin 86 S is not detected when terminal 15 is switched on
- Fuse E1 faulty
- Short circuit to ground/open circuit in wiring between the alarm system control module and the ignition lock
- Ignition lock faulty

Affected terminals

Plug A, pin 16

Diagnosis/troubleshooting

Work instruction			Display OK	If not OK
1	Check fuse.	◆ Check fuse E 1.	Step 2	Replace fuse E 1. -> End
2	Check wire from ignition lock to fuse carrier for open circuit.	◆ Switch off the ignition. ◆ Pull off fuse E 1. ◆ Switch on ignition. ◆ Measure voltage between fuse carrier (fuse E 1) pin 1 and ground.	> 11 V Step 3	Step 5
3	Check wire from the fuse carrier to the alarm system control module for open circuit.	◆ Switch off the ignition. ◆ Pull plug A off the alarm system control module. ◆ Switch on ignition. ◆ Measure voltage between plug A on control module pin 16 and ground.	> 11 V Step 7	Step 4
4	Check wire from the fuse carrier to the alarm system control module for open circuit.	◆ Switch off the ignition. ◆ Measure resistance between plug A on alarm system control module pin 16 and fuse E 1 pin 2.	< 5 Step 6	Repair wiring harness. -> End
5	Check wire from ignition lock to fuse carrier for open circuit.	◆ Switch off the ignition. ◆ Pull plug off the ignition lock. ◆ Measure resistance between plug on ignition lock pin 86 S and fuse carrier (fuse E 1) pin 1.	< 5 Step 6	Repair wiring harness. -> End
6	◆ Replace ignition lock.		-> End	
7	◆ Replace alarm system control module.		-> End	

Fault code 39

Signal converter faulty

Diagnostic conditions

- Pin 86 S or pin 15 on

Possible cause of fault

- Short circuit to voltage/ground or open circuit in wiring between the alarm system control module and the signal converter

Affected terminals

Plug A, pins 3 and 4

Diagnosis/troubleshooting

Work instruction			Display OK	If not OK
1	Check power supply of the signal converter.	◆ Switch off the ignition. ◆ Pull plug off the signal converter. ◆ Switch on terminal 86 S. ◆ Measure voltage between plug on the signal converter pin 5 and ground. ◆ Measure voltage between the plug on the signal converter pin 5 and pin 4.	> 11 V Step 2	Repair wiring harness.
2	Check wiring from signal converter to alarm system control module for short circuit to ground.	◆ Switch off the ignition. ◆ Pull plug A off the alarm system control module. ◆ Measure resistance between plug on alarm system pin 3 and ground. ◆ Measure resistance between plug on alarm system pin 4 and ground.	Step 3	Repair wiring harness. -> End
3	Check wiring from signal converter to alarm system control module for short circuit to B+.	◆ Switch on ignition. ◆ Measure voltage between plug A on control module pin 3 and ground. ◆ Measure voltage between plug A on control module pin 4 and ground.	0 V Step 4	Repair wiring harness. -> End
4	Check wiring from signal converter to alarm system control module for open circuit.	◆ Switch off the ignition. ◆ Measure resistance between plug A on control module pin 3 and plug on signal converter pin 8. ◆ Measure resistance between plug A on control module pin 4 and plug on signal converter pin 6.	< 5 Step 5	Repair wiring harness. -> End

5	◆ Replace signal converter.	-> End