

## 1 Earth points

### 1.1 Overview of earth points in engine compartment

1 - Earth point, on left in engine compartment -12-

□ Location ⇒ [page 2](#)

2 - Earth point, on right in engine compartment -13-

□ Location ⇒ [page 2](#)

3 - Earth point, on gearbox -14-

□ Location ⇒ [page 3](#)

4 - Earth point, on engine block -18-

□ Location ⇒ [page 5](#)

5 - Earth point, near radiator fan control unit -29-

□ Location ⇒ [page 3](#)

6 - Earth point, on left in plenum chamber -607-

□ Location ⇒ [page 4](#)

7 - Earth point, starter battery -624-

□ Location ⇒ [page 4](#)

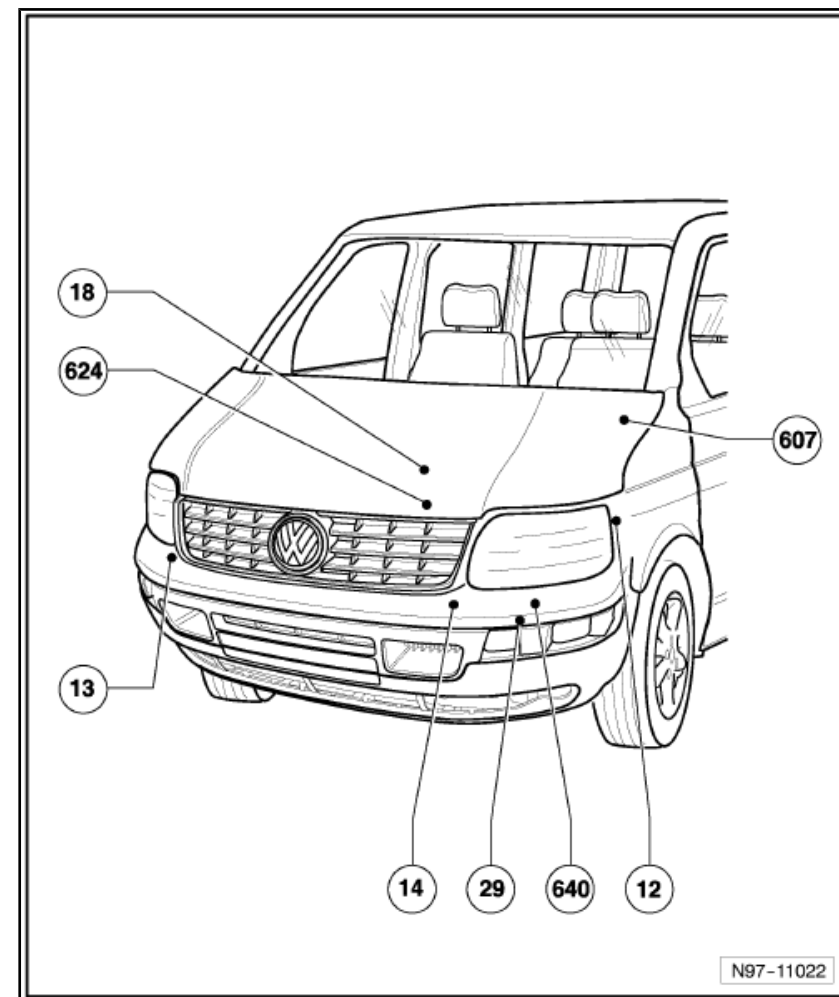
8 - Earth point 2, on left in engine compartment -640-

□ Location ⇒ [page 3](#)



Note:

◆ Earth points for camper ⇒ Fitting Locations for camper



12 - Earth point, on left in engine compartment ⇒ -arrow A-

TV7 - Terminal 31 wiring junction

Earth point 1 ⇒ -arrow a-

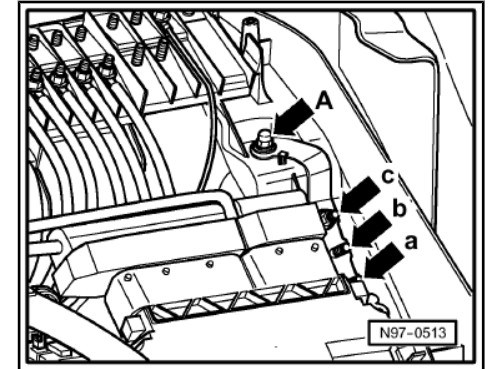
Earth point 2 ⇒ -arrow b-

Earth point 3 ⇒ -arrow c-



**Note:**

◆ *near headlight*

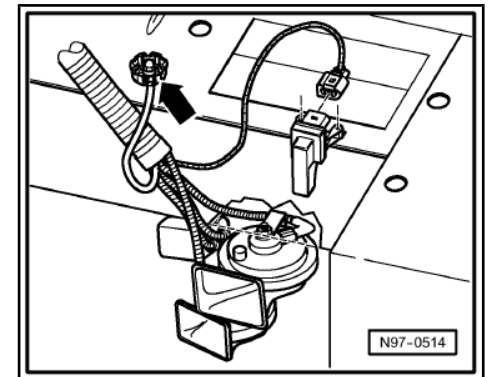


13 - Earth point, in engine compartment, right ⇒ -arrow-



**Note:**

◆ *near horn or dual tone horn*

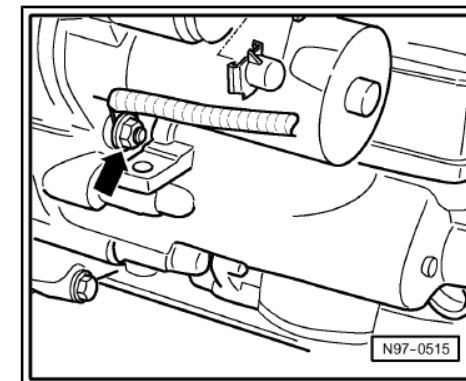


14 - Earth point, on gearbox ⇒ -arrow-



**Note:**

◆ *near starter*



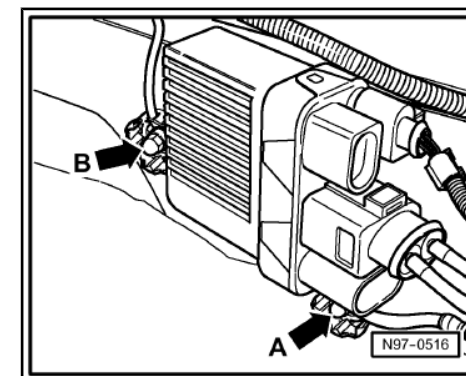
29 - Earth point, near radiator fan control unit ⇒ -arrow A-

640 - Earth point 2, on left in engine compartment ⇒ -arrow B-



**Note:**

◆ *on longitudinal member*

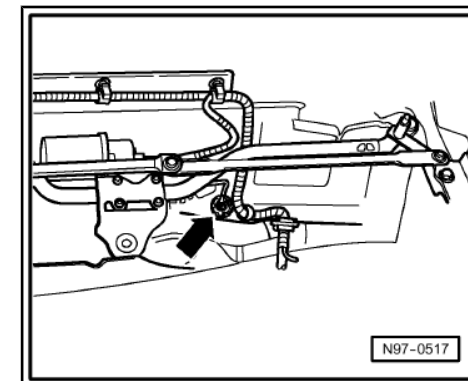


607 - Earth point, on left in plenum chamber ⇒ -arrow-

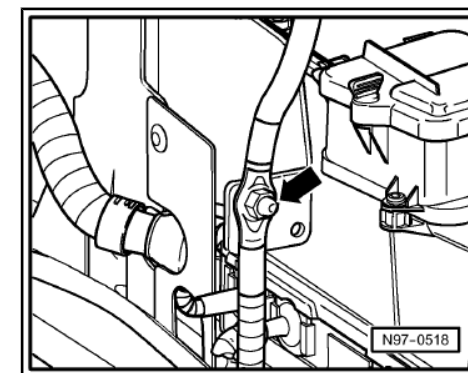


**Note:**

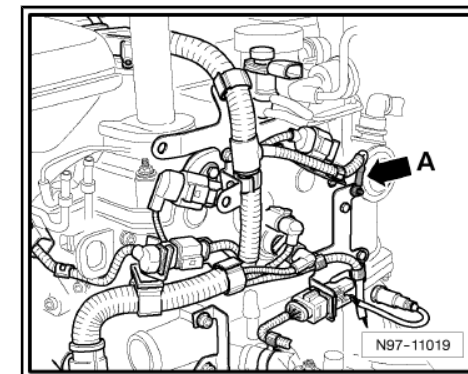
◆ *near windscreen wiper motor*



624 - Earth point, starter battery ⇒ -arrow-



18 - Earth point on engine block ⇒ -arrow A-



## 1.2 Overview of earth points in passenger compartment

### 1 - Earth point, under driver seat -34-

❑ Location ⇒ [page 8](#)

### 2 - Earth point, under front passenger seat -35-

❑ Location ⇒ [page 8](#)

### 3 - Earth point, near bulkhead -49-

❑ Location ⇒ [page 9](#)

### 4 - Earth point, on top end of steering column -605-

❑ Location ⇒ [page 10](#)

### 5 - Earth point (audio), under centre console, front -610-

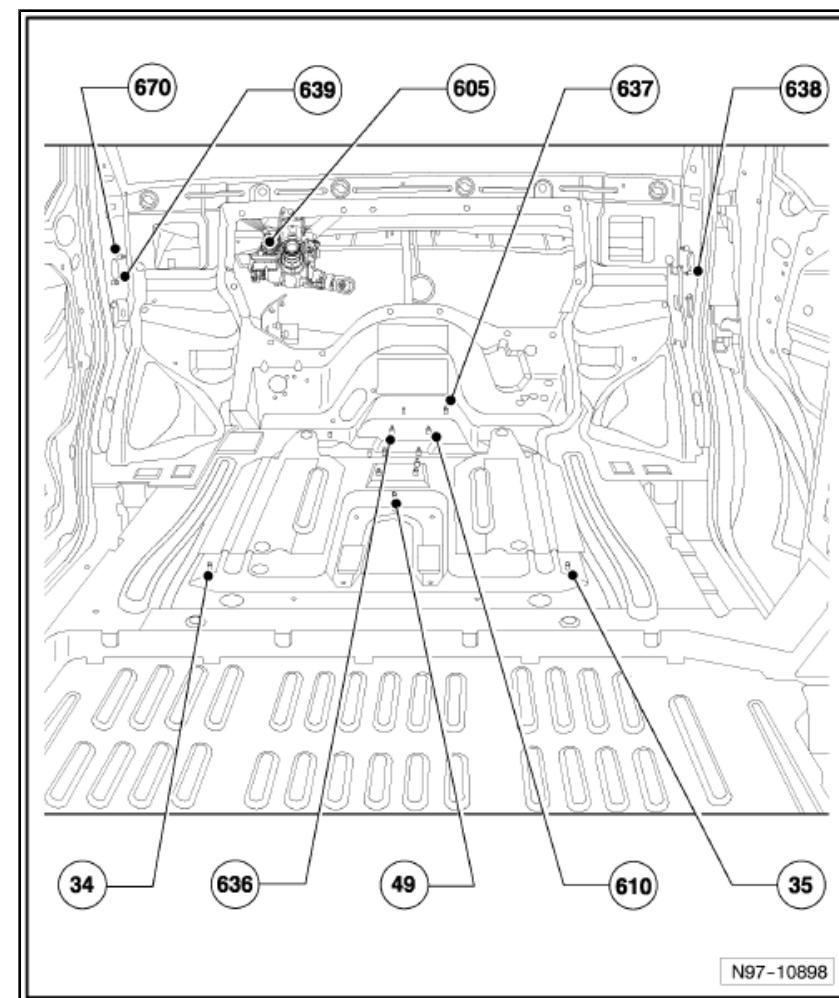
❑ Location ⇒ [page 9](#)

### 6 - Earth point, onboard supply control unit -636-

❑ Location ⇒ [page 9](#)

### 7 - Earth point, airbag control unit -637-

❑ Location ⇒ [page 9](#)



Volkswagen Technical Site: <http://vwts.ru> <http://vwts.info>

8 - Earth point, right A-pillar -638-

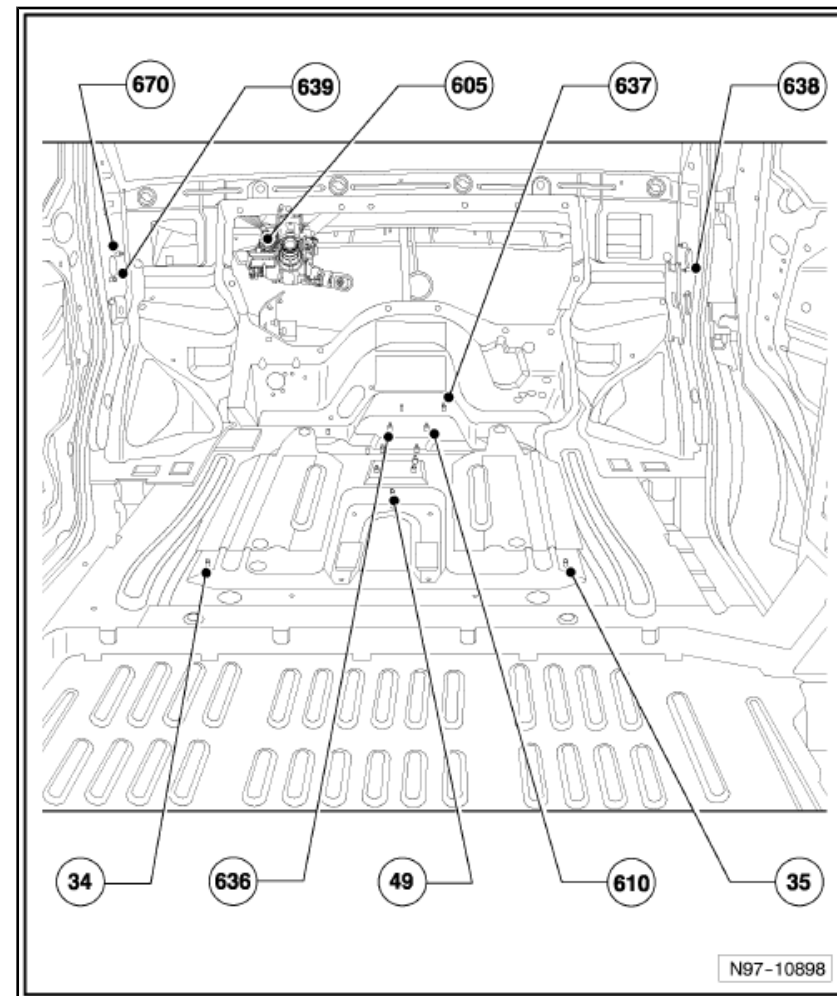
❑ Location ⇒ [page 10](#)

9 - Earth point, left A-pillar -639-

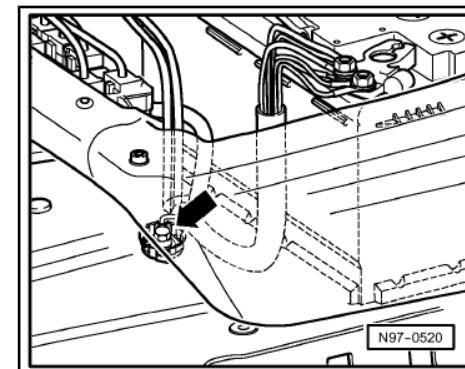
❑ Location ⇒ [page 11](#)

10 - Earth point 2, left A-pillar -670-

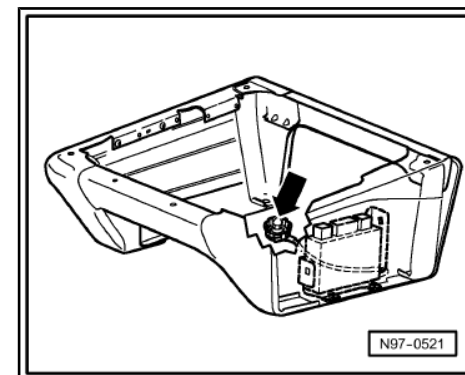
❑ Location ⇒ [page 11](#)



34 - Earth point under driver seat ⇒ -arrow-



35 - Earth point under front passenger seat ⇒ -arrow-



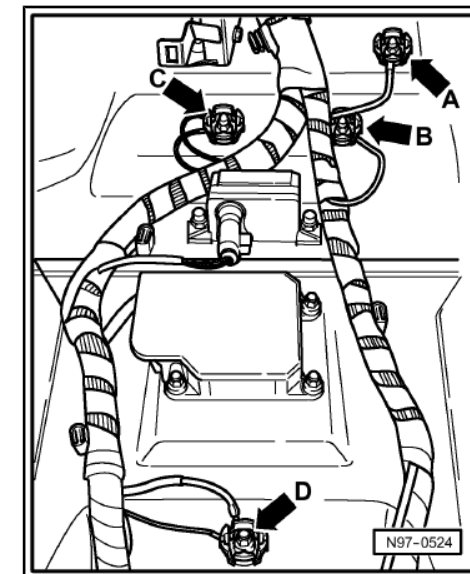


49 - Earth point, near bulkhead ⇒ -arrow D-

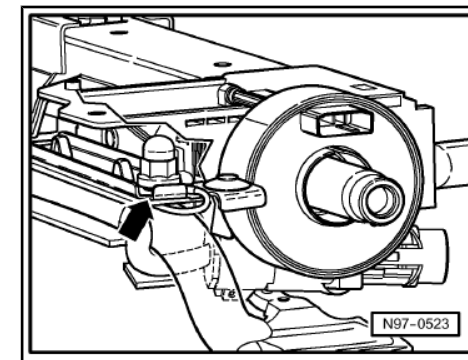
610 - Earth point (audio), under centre console, front ⇒ -arrow B-

636 - Earth point, onboard supply control unit ⇒ -arrow C-

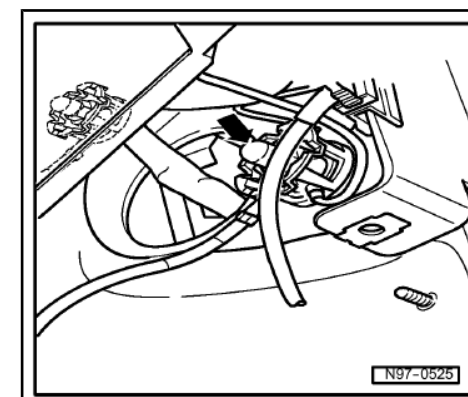
637 - Earth point, airbag control unit ⇒ -arrow A-



605 - Earth point, on top end of steering column ⇒ -arrow-

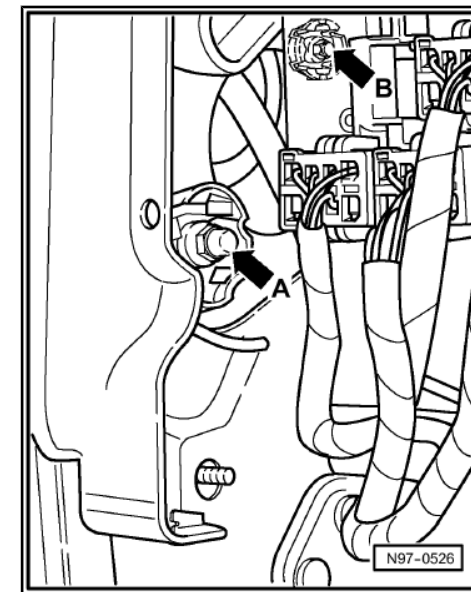


638 - Earth point, right A-pillar ⇒ -arrow-



639 - Earth point, left A-pillar ⇒ -arrow A-

670 - Earth point 2, left A-pillar ⇒ -arrow B-



### 1.3 Earth point, in luggage compartment

#### 1 - Earth point, left D-pillar -653-

□ Location ⇒ from page ⇒ [page 13](#)

#### 2 - Earth point, right D-pillar -654-

□ Location ⇒ from page ⇒ [page 14](#)

#### 3 - Earth point 2, left D-pillar -668-

□ Location ⇒ from page ⇒ [page 13](#)

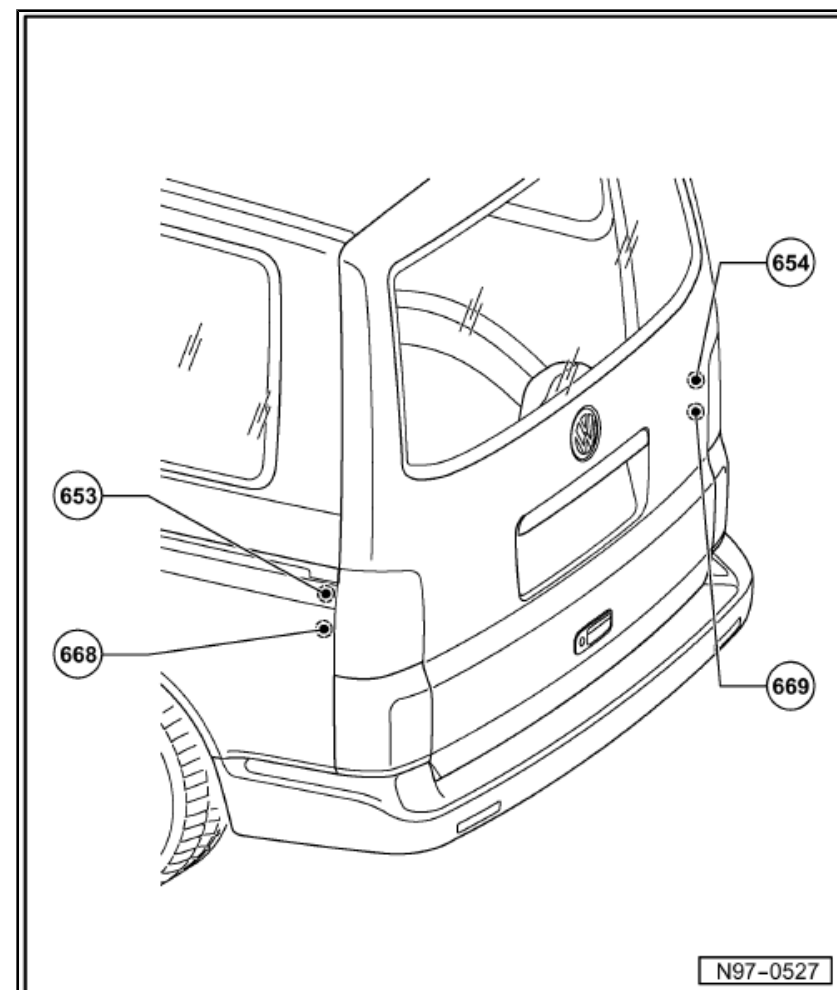
#### 4 - Earth point 2, right D-pillar -669-

□ Location ⇒ from page ⇒ [page 14](#)



**Note:**

◆ *Earth points for camper ⇒ Fitting Locations for camper*



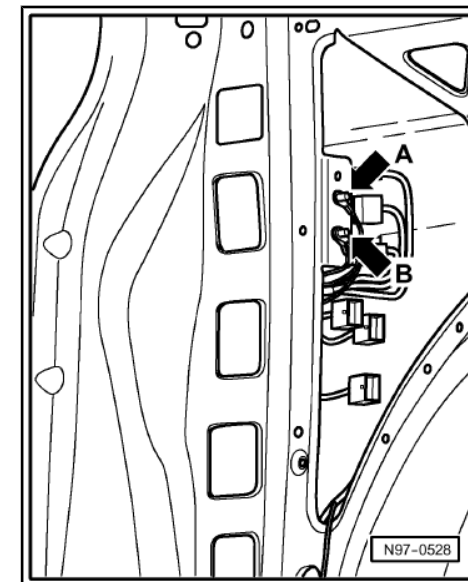
653 - Earth point, left D-pillar ⇒ -arrow A-

668 - Earth point 2, left D-pillar ⇒ -arrow B-



**Note:**

◆ *for models with short wheel base only*



- 653 - Earth point, left D-pillar ⇒ -arrow B-  
 668 - Earth point 2, left D-pillar ⇒ -arrow A-



**Note:**

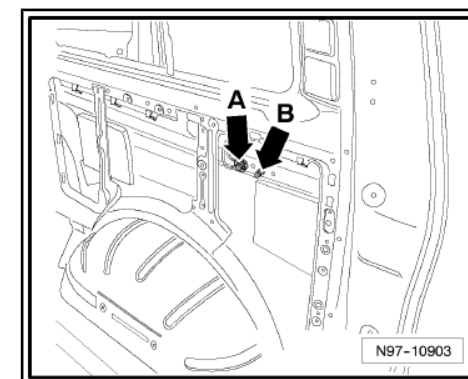
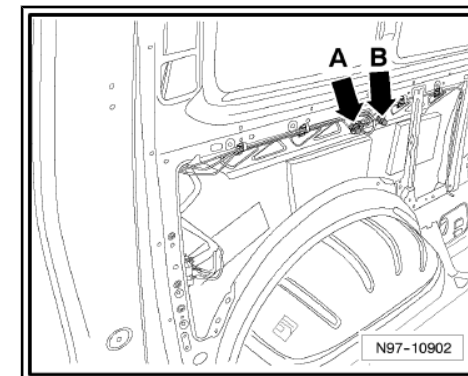
◆ *for models with long wheel base only*

- 654 - Earth point, right D-pillar ⇒ -arrow A-  
 669 - Earth point 2, right D-pillar ⇒ -arrow B-



**Note:**

◆ *for models with long wheel base only*

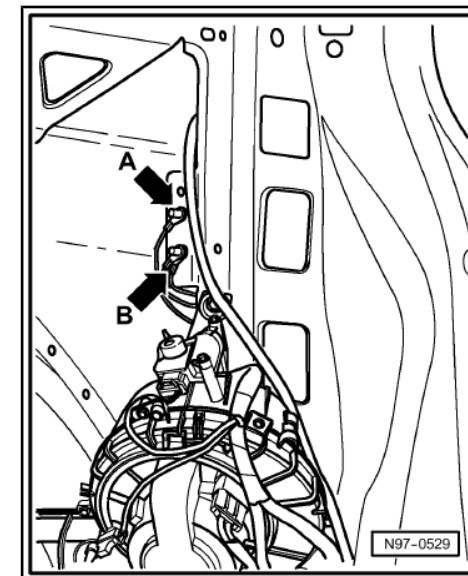


- 654 - Earth point, right D-pillar ⇒ -arrow A-  
669 - Earth point 2, right D-pillar ⇒ -arrow B-



**Note:**

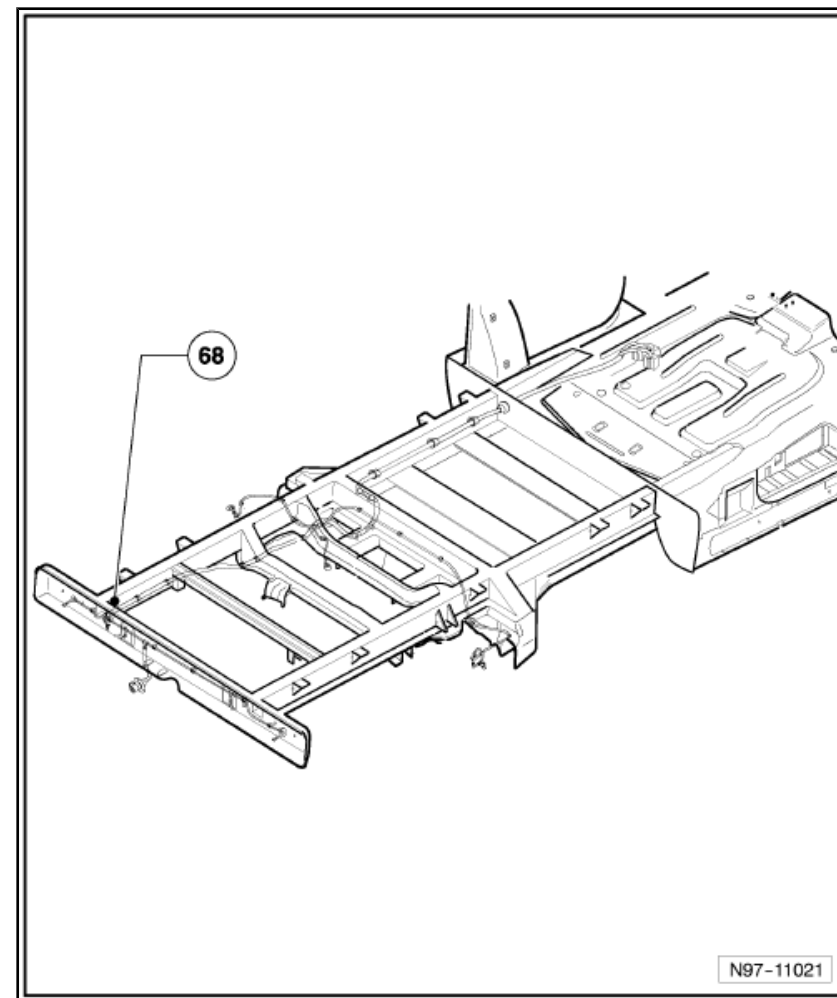
♦ *for models with short wheel base only*



## 1.4 Earth points platform/double cab

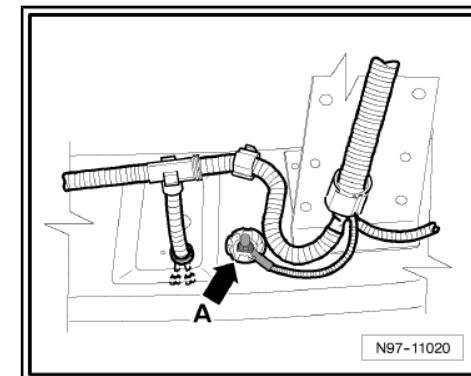
1 - Earth point, on left of rear cross member -68-

□ Location ⇒ [page 17](#)





68 - Earth point, on left of rear cross member ⇒ -arrow A-



# 1 Position of fuses in engine compartment (SA and SD)

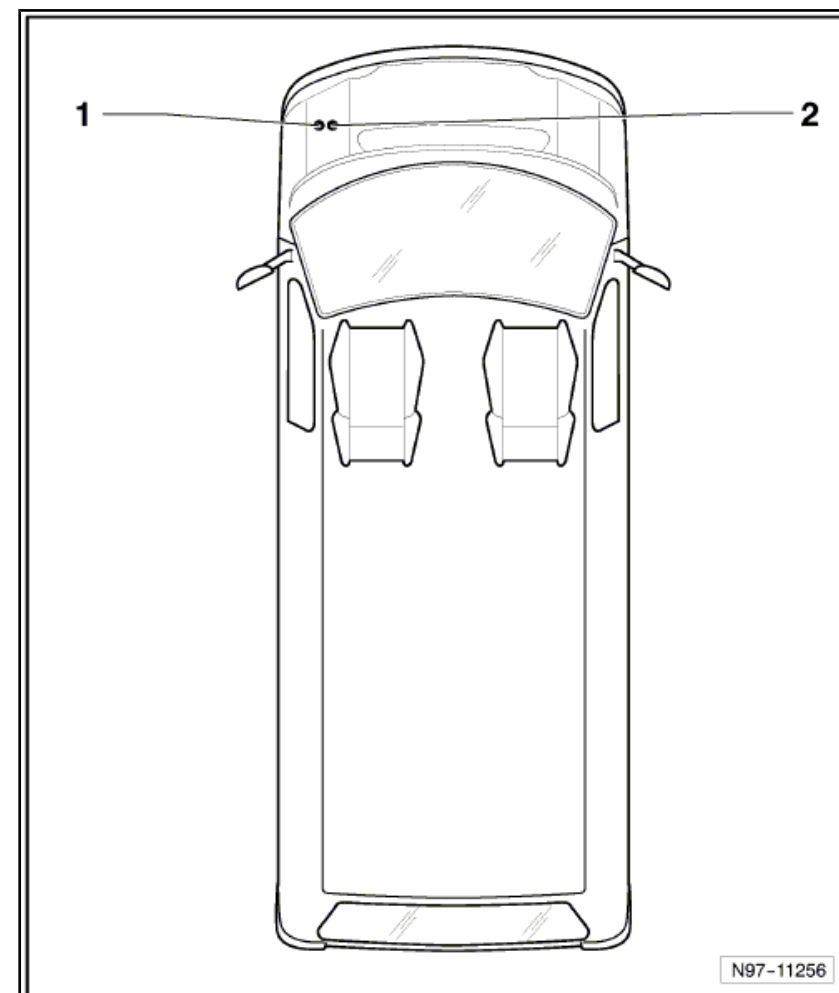
## 1.1 Overview of fuse carrier

### 1 - Fuses (SA) on fuse holder A, in left engine compartment

- ☐ Location ⇒ [page 2](#)
- ☐ from March 2003 ⇒ [page 3](#)
- ☐ from June 2004 ⇒ [page 5](#)
- ☐ from August 2006 ⇒ [page 7](#)

### 2 - Fuses (SD) on fuse holder D, in left engine compartment

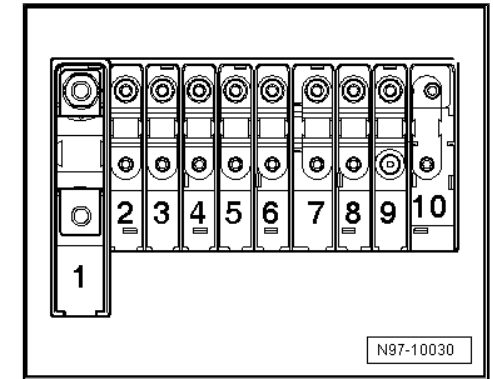
- ☐ Location ⇒ [page 9](#)
- ☐ from March 2003 ⇒ [page 10](#)
- ☐ from June 2004 ⇒ [page 14](#)
- ☐ from August 2006 ⇒ [page 19](#)
- ☐ from November 2007 ⇒ [page 23](#)



## 1.2 Fuse holder SA

### 1.2.1 Location:

- ◆ In electronics box, in left engine compartment



**1.3 Position of fuses on fuse holder A, from March 2003**

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
1	- SA1 - Fuse 1 on fuse holder A	150 A 175 A 200 A	- C -Alternator	30
2	- SA2 - Fuse 2 on fuse holder A	125 A	- J59 - X-contact relief relay - S37 - Window regulator single fuse - S41-Heated rear window fuse - B298 - Positive connection -2- (30), in main wiring harness - B300-Positive connection -4- (30), in main wiring harness - B301 - Positive connection -5- (30), in main wiring harness - B302 - Positive connection -6- (30), in main wiring harness - B303 - Positive connection -7- (30), in main wiring harness - B304 - Positive connection -8- (30), in main wiring harness - B305 - Positive connection -9- (30), in main wiring harness - B306 - Positive connection -10- (30), in main wiring harness	30
3	- SA3 - Fuse 3 on fuse holder A	50 A 100 A	- J7-Battery isolation relay - J558 - Left sliding door control unit - J713-Second battery charging circuit relay - J731-Right sliding door control unit - S204-Fuse 1 (30) - S205-Fuse 2 (30)	30

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
4	- SA4-Fuse 4 on fuse holder A	125 A	- D50-Positive connection (30), in engine compartment wiring harness	30
5	- SA5 - Fuse 5 on fuse holder A <sup>1)</sup>	50 A	- J519-Onboard power supply control unit	30
	- without fuse <sup>2)</sup>	-	- SD18 - Fuse 18 on fuse holder D	30
6	- SA6-Fuse 6 on fuse holder A	60 A	- J52-Glow plug relay	30
	- SA6-Fuse 6 on fuse holder A	50 A	- J299 - Secondary air pump relay	30
7	- SA7-Fuse 7 on fuse holder A	60 A 70 A	- J293 - Radiator fan control unit J671-Radiator fan control unit 2	30
8	- SA8 - Fuse 8 on fuse holder A	30 A 40 A 50 A	- J293 - Radiator fan control unit - J671-Radiator fan control unit 2	30
9	- SA9 - Fuse 9 on fuse holder A	100 A	- D -Ignition/starter switch - B272 - Positive connection (30), in main wiring harness - B299 - Positive connection -3- (30), in main wiring harness - B308 - Positive connection -12- (30), in main wiring harness	30


**Note**

♦ <sup>1)</sup>applicable up to January 2004

♦ <sup>2)</sup>applicable from February 2004

**1.4 Position of fuses in fuse holder A, from June 2004**

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
1	- SA1 - Fuse 1 on fuse holder A	175 A 225 A	- C -Alternator	30
2	- SA2 - Fuse 2 on fuse holder A	125 A	- J59 - X-contact relief relay - S37 - Window regulator single fuse - S41-Heated rear window fuse - B298 - Positive connection -2- (30), in main wiring harness - B300-Positive connection -4- (30), in main wiring harness - B301 - Positive connection -5- (30), in main wiring harness - B302 - Positive connection -6- (30), in main wiring harness - B303 - Positive connection -7- (30), in main wiring harness - B304 - Positive connection -8- (30), in main wiring harness - B305 - Positive connection -9- (30), in main wiring harness - B306 - Positive connection -10- (30), in main wiring harness	30
3	- SA3 - Fuse 3 on fuse holder A	50 A 100 A	- J7-Battery isolation relay - J558 - Left sliding door control unit - J713-Second battery charging circuit relay - J731-Right sliding door control unit - S204-Fuse 1 (30) - S205-Fuse 2 (30)	30
4	- SA4 - Fuse 4 on fuse holder A <sup>1)</sup>	125 A	- D50-Positive connection (30), in engine compartment wiring harness	30
	- SA4 - Fuse 4 on fuse holder A <sup>2)</sup>	70 A	- D50-Positive connection (30), in engine compartment wiring harness	30


**Note**

♦ <sup>1)</sup>applicable up to May 2006

♦ <sup>2)</sup>applicable from June 2006

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
5	- SA5 - Fuse 5 on fuse holder A <sup>1)</sup>	50 A	- S132-Fuse 2 - S185 - Electric socket 2 fuse - S281 - Electric socket 3 fuse	30
	- SA5 - Fuse 5 on fuse holder A <sup>2)</sup>	-	- Vacant	-
	- SA5 - Fuse 5 on fuse holder A <sup>3)</sup>	50 A	- SD4 - Fuse 4 on fuse holder D - SD6 - Fuse 6 on fuse holder D	30
6	- SA6-Fuse 6 on fuse holder A	60 A 60 A 50 A	- J52-Glow plug relay - J179 - Automatic glow period control unit - J299 - Secondary air pump relay	30
7	- SA7-Fuse 7 on fuse holder A	70 A 80 A	- J293 - Radiator fan control unit - J671-Radiator fan control unit 2	30
8	- SA8 - Fuse 8 on fuse holder A	50 A	- J293 - Radiator fan control unit - J671-Radiator fan control unit 2	30
9	- SA9 - Fuse 9 on fuse holder A	100 A	- D -Ignition/starter switch - B272 - Positive connection (30), in main wiring harness - B299 - Positive connection -3- (30), in main wiring harness - B308 - Positive connection -12- (30), in main wiring harness	30


**Note**

◆ <sup>1)</sup>applicable up to December 2004

◆ <sup>2)</sup>applicable from January 2005 up to May 2006

◆ <sup>3)</sup>applicable from June 2006

**1.5 Position of fuses in fuse holder A, from August 2006**

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
1	- SA1 - Fuse 1 on fuse holder A	175 A 225 A	- C -Alternator -	30
2	- SA2 - Fuse 2 on fuse holder A	125 A	- J59 - X-contact relief relay - S37 - Window regulator single fuse - S41-Heated rear window fuse - B298 - Positive connection -2- (30), in main wiring harness - B300-Positive connection -4- (30), in main wiring harness - B301 - Positive connection -5- (30), in main wiring harness - B302 - Positive connection -6- (30), in main wiring harness - B303 - Positive connection -7- (30), in main wiring harness - B304 - Positive connection -8- (30), in main wiring harness - B305 - Positive connection -9- (30), in main wiring harness - B306 - Positive connection -10- (30), in main wiring harness	30
3	- SA3 - Fuse 3 on fuse holder A	50 A 100 A	- J7-Battery isolation relay - J558 - Left sliding door control unit - J713-Second battery charging circuit relay - J731-Right sliding door control unit - S204-Fuse 1 (30) - S205-Fuse 2 (30)	30
4	- SA4-Fuse 4 on fuse holder A	70 A	- D50-Positive connection (30), in engine compartment wiring harness	30
5	- SA5 - Fuse 5 on fuse holder A	50 A	- SD4 - Fuse 4 on fuse holder D - SD6 - Fuse 6 on fuse holder D	30



No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
6	- SA6-Fuse 6 on fuse holder A	60 A 60 A 50 A	- J52-Glow plug relay - J179 - Automatic glow period control unit - J299 - Secondary air pump relay	30
7	- SA7-Fuse 7 on fuse holder A	70 A 80 A	- J293 - Radiator fan control unit - J671-Radiator fan control unit 2	30
8	- SA8 - Fuse 8 on fuse holder A	50 A	- J293 - Radiator fan control unit - J671-Radiator fan control unit 2	30
9	- SA9 - Fuse 9 on fuse holder A	100 A	- D -Ignition/starter switch - B272 - Positive connection (30), in main wiring harness - B299 - Positive connection -3- (30), in main wiring harness - B308 - Positive connection -12- (30), in main wiring harness	30

## 1.6 Fuse holder SD

### 1.6.1 Location:

- ◆ In electronics box in engine compartment

Fuse colours

40 A - blue

30 A - green

25 A - white

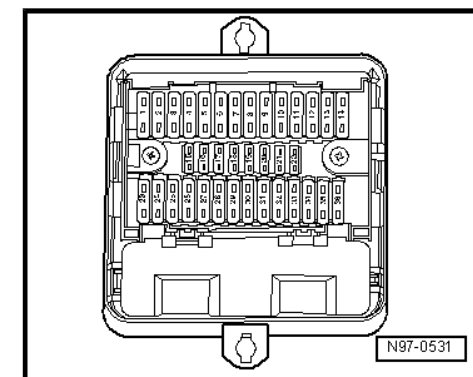
20 A - yellow

15 A - blue

10 A - red

7.5 A - brown

5 A - beige



**1.7 Position of fuses in fuse holder D, from March 2003**

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
1	- SD1 - Fuse 1 on fuse holder D	5 A	- J293 - Radiator fan control unit - J671-Radiator fan control unit 2	87
2	- SD2 - Fuse 2 on fuse holder D	5 A	- J496-Additional coolant pump relay	30
3	- SD3 - Fuse 3 on fuse holder D	15 A	- J246-Cut-out relay for air conditioning system magnetic coupling - J153-Magnetic clutch control unit	15
4	- SD4 - Fuse 4 on fuse holder D	30 A	- J104 - ABS control unit	30
5	- SD5 - Fuse 5 on fuse holder D	15 A	- J217 - Automatic gearbox control unit	30
6	- SD6 - Fuse 6 on fuse holder D	30 A	- J104 - ABS control unit	30
7	- SD7 - Fuse 7 on fuse holder D	5 A 5 A	- J293 - Radiator fan control unit <sup>1)</sup> - J671 - Radiator fan control unit 2 <sup>2)</sup>	15 87
8	- SD8 - Fuse 8 on fuse holder D	15 A	- G108 - Lambda probe 2 - G131 - Lambda probe 2 after catalytic converter	87
9	- SD9-Fuse 9 on fuse holder D	5 A	- J317-Terminal 30 voltage supply relay - J623 - Engine control unit	30
10	- SD10 - Fuse 10 on fuse holder D	5 A	- J299 - Secondary air pump relay - J496-Additional coolant pump relay - N18-Exhaust gas recirculation valve - N75 - Charge pressure control solenoid valve - N80 - Activated charcoal filter system solenoid valve 1 - N112-Secondary air inlet valve - N239 - Variable intake manifold flap change-over valve - N345 - Exhaust gas recirculation cooler change-over valve - V144 - Fuel system diagnostic pump	87


**Note**

♦ <sup>1)</sup>applicable up to January 2004

♦ <sup>2)</sup>applicable from February 2004

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
11	- SD11 - Fuse 11 on fuse holder D	5 A	- J500 - Power steering control unit	15
12	- SD12-Fuse 12 on fuse holder D	5 A	- N18-Exhaust gas recirculation valve - N79-Heater element for crankcase breather	15 87
13	- SD13 - Fuse 13 on fuse holder D	10 A	- N33 - Injector, cylinder 4 - N83 - Injector, cylinder 5 - N84 - Injector, cylinder 6	87
14	- SD14 - Fuse 14 on fuse holder D	5 A	- J17 - Fuel pump relay - J623 - Engine control unit	15 87
15	- SD15 - Fuse 15 on fuse holder D	10 A	- F4 - Reversing light switch	15
16	- SD16 - Fuse 16 on fuse holder D	5 A	- G70 - Air mass meter	15
17	- SD17 - Fuse 17 on fuse holder D	5 A	- E256-TCS and ESP button - J104 - ABS control unit	15
18	- SD18 - Fuse 18 on fuse holder D <sup>1)</sup>	-	- Vacant	-
	- SD18 - Fuse 18 on fuse holder D <sup>2)</sup>	5 A	- J519-Onboard power supply control unit	30
19	- SD19 - Fuse 19 on fuse holder D	5 A	- F36 - Clutch pedal switch - F47-Brake pedal switch	15 or 87
20	- SD20 - Fuse 20 on fuse holder D	5 A	- G70 - Air mass meter - J623 - Engine control unit	15


**Note**

♦ <sup>1)</sup>applicable up to January 2004

♦ <sup>2)</sup>applicable from February 2004

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
21	- SD21 - Fuse 21 on fuse holder D	-	- Vacant	-
22	- SD22 - Fuse 22 on fuse holder D	10 A	- N30 - Injector, cylinder 1 - N31 - Injector, cylinder 2 - N32 - Injector, cylinder 3 - N33 - Injector, cylinder 4	87
23	- SD23 - Fuse 23 on fuse holder D	25 A	- J60 - Automatic gearbox relay	30
24	- SD24 - Fuse 24 on fuse holder D	5 A	- F125 - Multifunction switch	15
25	- SD25 - Fuse 25 on fuse holder D	25 A	- N292 - Ignition coil 4 with output stage - N323 - Ignition coil 5 with output stage - N324 - Ignition coil 6 with output stage	87
26	- SD26 - Fuse 26 on fuse holder D	25 A	- N70 - Ignition coil 1 with output stage - N127 - Ignition coil 2 with output stage - N291 - Ignition coil 3 with output stage	87
27	- SD27 - Fuse 27 on fuse holder D	5 A	- J496 - Additional coolant pump relay	87
28	- SD28 - Fuse 28 on fuse holder D	-	- Vacant	-
29	- SD29 - Fuse 29 on fuse holder D	10 A	- G22 - Speedometer sender <sup>1)</sup>	15
		20 A	- V192 - Vacuum pump for brakes <sup>2)</sup>	87
30	- SD30 - Fuse 30 on fuse holder D	15 A	- J17 - Fuel pump relay - G6 - Fuel system pressurisation pump - J708 - Residual heat relay	30 or 87


**Note**

♦ <sup>1)</sup>applicable up to May 2003

♦ <sup>2)</sup>applicable from February 2004

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
31	- SD31 - Fuse 31 on fuse holder D	15 A	- G39 - Lambda probe - G130 - Lambda probe after catalytic converter	87
32	- SD32 - Fuse 32 on fuse holder D	30 A	- J623 - Engine control unit	87
33	- SD33 - Fuse 33 on fuse holder D	5 A	- G40 - Hall sender - J52-Glow plug relay - J496-Additional coolant pump relay	87
34	- SD34 - Fuse 34 on fuse holder D <sup>1)</sup>	10 A	- J293 - Radiator fan control unit	87
	- SD34 - Fuse 34 on fuse holder D <sup>2)</sup>	-	- Vacant	-
35	- SD35 - Fuse 35 on fuse holder D	10 A	- J623 - Engine control unit - N156 - Variable intake manifold change-over valve - N205 - Inlet camshaft control valve 1 - N318 - Exhaust camshaft control valve 1	87
36	- SD36 - Fuse 36 on fuse holder D	25 A	- J207-Starter inhibitor relay	30


**Note**

♦ <sup>1)</sup>applicable up to May 2003

♦ <sup>2)</sup>applicable from June 2003

## 1.8 Position of fuses in fuse holder D, from June 2004

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
1	- SD1 - Fuse 1 on fuse holder D	5 A	- J293 - Radiator fan control unit - J671-Radiator fan control unit 2	87
2	- SD2 - Fuse 2 on fuse holder D	5 A	- J496-Additional coolant pump relay	30
3	- SD3 - Fuse 3 on fuse holder D	15 A	- J153-Magnetic clutch control unit - J246-Cut-out relay for air conditioning system magnetic coupling	15
4	- SD4 - Fuse 4 on fuse holder D	30 A	- J104 - ABS control unit	30
5	- SD5 - Fuse 5 on fuse holder D	15 A	- J217 - Automatic gearbox control unit	30
6	- SD6 - Fuse 6 on fuse holder D	30 A	- J104 - ABS control unit	30
7	- SD7 - Fuse 7 on fuse holder D	5 A	- J671-Radiator fan control unit 2	87
8	- SD8 - Fuse 8 on fuse holder D	15 A	- Z28 - Lambda probe 2 heater - Z30 - Lambda probe 2 heater after catalytic converter	87
9	- SD9-Fuse 9 on fuse holder D	5 A	- J317-Terminal 30 voltage supply relay - J623 - Engine control unit	30
10	- SD10 - Fuse 10 on fuse holder D	5 A	- J299 - Secondary air pump relay - J496-Additional coolant pump relay - N18-Exhaust gas recirculation valve - N75 - Charge pressure control solenoid valve - N80 - Activated charcoal filter system solenoid valve 1 - N112-Secondary air inlet valve - N239 - Variable intake manifold flap change-over valve - N345 - Exhaust gas recirculation cooler change-over valve - V144 - Fuel system diagnostic pump	87

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
11	- SD11 - Fuse 11 on fuse holder D	-	- Vacant	-
12	- SD12-Fuse 12 on fuse holder D	5 A	- N79-Heater element for crankcase breather	15 or 87
13	- SD13 - Fuse 13 on fuse holder D	10 A	- N33 - Injector, cylinder 4 - N83 - Injector, cylinder 5 - N84 - Injector, cylinder 6	87
14	- SD14 - Fuse 14 on fuse holder D	5 A	- J17 - Fuel pump relay - J623 - Engine control unit	15 or 87
15	- SD15 - Fuse 15 on fuse holder D	10 A	- F4 - Reversing light switch	15
16	- SD16 - Fuse 16 on fuse holder D	5 A	- G70 - Air mass meter	15
17	- SD17 - Fuse 17 on fuse holder D	5 A	- E256-TCS and ESP button - J104 - ABS control unit	15
18	- SD18 - Fuse 18 on fuse holder D <sup>1)</sup>	5 A	- J519-Onboard power supply control unit	30
	- SD18 - Fuse 18 on fuse holder D <sup>2)</sup>	-	- Vacant	-
19	- SD19 - Fuse 19 on fuse holder D	5 A	- F36 - Clutch pedal switch - F47-Brake pedal switch	15 or 87


**Note**

♦ <sup>1)</sup>applicable up to May 2006

♦ <sup>2)</sup>applicable from June 2006



No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
20	- SD20 - Fuse 20 on fuse holder D	5 A	- G70 - Air mass meter - J623 - Engine control unit	15
21	- SD21 - Fuse 21 on fuse holder D	5 A	- N18-Exhaust gas recirculation valve	87
22	- SD22 - Fuse 22 on fuse holder D	10 A	- N30 - Injector, cylinder 1 - N31 - Injector, cylinder 2 - N32 - Injector, cylinder 3 - N33 - Injector, cylinder 4	87
23	- SD23 - Fuse 23 on fuse holder D	25 A	- J60 - Automatic gearbox relay	30
24	- SD24 - Fuse 24 on fuse holder D	5 A	- F125 -Multifunction switch	15
25	- SD25 - Fuse 25 on fuse holder D	25 A	- J623 - Engine control unit - N152 - Ignition transformer - N292 - Ignition coil 4 with output stage - N323 - Ignition coil 5 with output stage - N324 - Ignition coil 6 with output stage - SD13 - Fuse 13 on fuse holder D -	87
26	- SD26 - Fuse 26 on fuse holder D	25 A	- N70 - Ignition coil 1 with output stage - N127 - Ignition coil 2 with output stage - N291 - Ignition coil 3 with output stage - SD22 - Fuse 22 on fuse holder D	87
27	- SD27 - Fuse 27 on fuse holder D	5 A	- J496-Additional coolant pump relay	87
28	- SD28 - Fuse 28 on fuse holder D	15 A	- H2-Treble tone horn	30

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
29	- SD29 - Fuse 29 on fuse holder D	20 A	- V192 - Vacuum pump for brakes	87
30	- SD30 - Fuse 30 on fuse holder D	15 A	- G6 - Fuel system pressurisation pump - J17 - Fuel pump relay - J708 - Residual heat relay	30 or 87
31	- SD31 - Fuse 31 on fuse holder D	10 A	- Z19 - Lambda probe heater <sup>1)</sup>	87
	- SD31 - Fuse 31 on fuse holder D	15 A	- Z19 - Lambda probe heater <sup>2)</sup> - Z29 - Lambda probe 1 heater after catalytic converter <sup>2)</sup>	87
32	- SD32 - Fuse 32 on fuse holder D	30 A	- J623 - Engine control unit <sup>1), 3)</sup>	87
	- SD32 - Fuse 32 on fuse holder D	5 A	- J49 - Electric fuel pump 2 relay <sup>2), 5)</sup>	87
33	- SD33 - Fuse 33 on fuse holder D	5 A	- G40 - Hall sender - J52 - Glow plug relay <sup>3)</sup> - J179 - Glow plug relay <sup>1)</sup> - J496-Additional coolant pump relay	87
34	- SD34 - Fuse 34 on fuse holder D <sup>4)</sup>	-	- Vacant	-
	- SD34 - Fuse 34 on fuse holder D <sup>5)</sup>	5 A	- J519-Onboard power supply control unit	30


**Note**

- ◆ <sup>1)</sup>for engine codes BNZ, BPC, BRR, BRS only
- ◆ <sup>2)</sup>for engine codes AXA, BDL, BDM, BKK only
- ◆ <sup>3)</sup>for engine codes AXB, AXC, AXD, AXE, BLJ only
- ◆ <sup>4)</sup> applicable up to May 2006
- ◆ <sup>5)</sup> applicable from June 2006

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
35	- SD35 - Fuse 35 on fuse holder D	10 A	- J623 - Engine control unit - N156 - Variable intake manifold change-over valve - N205 - Inlet camshaft control valve 1 - N318 - Exhaust camshaft control valve 1	87
36	- SD36 - Fuse 36 on fuse holder D	40 A 25 A 30 A	- J207 - Starter inhibitor relay <sup>1)</sup> - J207 - Starter inhibitor relay <sup>2)</sup> - J207 - Starter inhibitor relay <sup>3)</sup>	30


**Note**

- ◆ <sup>1)</sup>applicable up to December 2004
- ◆ <sup>2)</sup>applicable from January 2005 up to January 2006
- ◆ <sup>3)</sup>applicable from February 2006

## 1.9 Position of fuses in fuse holder D, from August 2006

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
1	- SD1 - Fuse 1 on fuse holder D	5 A	- J293 - Radiator fan control unit - J671-Radiator fan control unit 2	87
2	- SD2 - Fuse 2 on fuse holder D	5 A	- J496-Additional coolant pump relay	30
3	- SD3 - Fuse 3 on fuse holder D	15 A	- J153-Magnetic clutch control unit - J246-Cut-out relay for air conditioning system magnetic coupling	15
4	- SD4 - Fuse 4 on fuse holder D	30 A	- J104 - ABS control unit	30
5	- SD5 - Fuse 5 on fuse holder D	15 A	- J217 - Automatic gearbox control unit	30
6	- SD6 - Fuse 6 on fuse holder D	30 A	- J104 - ABS control unit	30
7	- SD7 - Fuse 7 on fuse holder D	5 A	- J671-Radiator fan control unit 2	87
8	- SD8 - Fuse 8 on fuse holder D	15 A	- Z28 - Lambda probe 2 heater - Z30 - Lambda probe 2 heater after catalytic converter	87
9	- SD9-Fuse 9 on fuse holder D	5 A	- J317-Terminal 30 voltage supply relay - J623 - Engine control unit	30
10	- SD10 - Fuse 10 on fuse holder D	5 A	- J299 - Secondary air pump relay - J496-Additional coolant pump relay - N18-Exhaust gas recirculation valve - N75 - Charge pressure control solenoid valve - N80 - Activated charcoal filter system solenoid valve 1 - N112-Secondary air inlet valve - N239 - Variable intake manifold flap change-over valve - N345 - Exhaust gas recirculation cooler change-over valve - V144 - Fuel system diagnostic pump	87

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
11	- SD11 - Fuse 11 on fuse holder D	-	- Vacant	-
12	- SD12-Fuse 12 on fuse holder D	5 A	- N79-Heater element for crankcase breather	15 or 87
13	- SD13 - Fuse 13 on fuse holder D	10 A	- N33 - Injector, cylinder 4 - N83 - Injector, cylinder 5 - N84 - Injector, cylinder 6	87
14	- SD14 - Fuse 14 on fuse holder D	5 A	- J17 - Fuel pump relay - J623 - Engine control unit -	15 or 87
15	- SD15 - Fuse 15 on fuse holder D	10 A	- F4 - Reversing light switch	15
16	- SD16 - Fuse 16 on fuse holder D	5 A	- G70 - Air mass meter	15
17	- SD17 - Fuse 17 on fuse holder D	5 A	- E256-TCS and ESP button - J104 - ABS control unit	15
18	- SD18 - Fuse 18 on fuse holder D	5 A	- J519-Onboard power supply control unit	30
19	- SD19 - Fuse 19 on fuse holder D	5 A	- F36 - Clutch pedal switch - F47-Brake pedal switch	15 or 87
20	- SD20 - Fuse 20 on fuse holder D	5 A	- G70 - Air mass meter - J623 - Engine control unit	15
21	- SD21 - Fuse 21 on fuse holder D	5 A	- N18-Exhaust gas recirculation valve	87

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
22	- SD22 - Fuse 22 on fuse holder D	10 A	- N30 - Injector, cylinder 1 - N31 - Injector, cylinder 2 - N32 - Injector, cylinder 3 - N33 - Injector, cylinder 4	87
23	- SD23 - Fuse 23 on fuse holder D	25 A	- J60 - Automatic gearbox relay	30
24	- SD24 - Fuse 24 on fuse holder D	5 A	- F125 - Multifunction switch	15
25	- SD25 - Fuse 25 on fuse holder D	25 A	- J623 - Engine control unit - N152 - Ignition transformer - N292 - Ignition coil 4 with output stage - N323 - Ignition coil 5 with output stage - N324 - Ignition coil 6 with output stage - SD13 - Fuse 13 on fuse holder D	87
26	- SD26 - Fuse 26 on fuse holder D	25 A	- N70 - Ignition coil 1 with output stage - N127 - Ignition coil 2 with output stage - N291 - Ignition coil 3 with output stage - SD22 - Fuse 22 on fuse holder D	87
27	- SD27 - Fuse 27 on fuse holder D	5 A	- J496 - Additional coolant pump relay	87
28	- SD28 - Fuse 28 on fuse holder D	15 A	- H2 - Treble tone horn	30
29	- SD29 - Fuse 29 on fuse holder D	20 A	- V192 - Vacuum pump for brakes	87
30	- SD30 - Fuse 30 on fuse holder D	15 A	- G6 - Fuel system pressurisation pump - J17 - Fuel pump relay - J708 - Residual heat relay	30 or 87

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
31	- SD31 - Fuse 31 on fuse holder D	10 A	- Z19 - Lambda probe heater <sup>1)</sup>	87
	- SD31 - Fuse 31 on fuse holder D	15 A	- Z19 - Lambda probe heater <sup>2)</sup> - Z29 - Lambda probe 1 heater after catalytic converter <sup>2)</sup>	87
32	- SD32 - Fuse 32 on fuse holder D	30 A	- J623 - Engine control unit <sup>1), 3)</sup>	87
	- SD32 - Fuse 32 on fuse holder D	5 A	- J49 - Electric fuel pump 2 relay <sup>2)</sup>	87
33	- SD33 - Fuse 33 on fuse holder D	5 A	- G40 - Hall sender - J52 - Glow plug relay <sup>3)</sup> - J179 - Glow plug relay <sup>1)</sup> - J496-Additional coolant pump relay	87
34	- SD34 - Fuse 34 on fuse holder D	5 A	- J519-Onboard power supply control unit	30
35	- SD35 - Fuse 35 on fuse holder D	10 A	- J623 - Engine control unit - N156 - Variable intake manifold change-over valve - N205 - Inlet camshaft control valve 1 - N318 - Exhaust camshaft control valve 1	87
36	- SD36 - Fuse 36 on fuse holder D	30 A	- J207-Starter inhibitor relay	30


**Note**

- ◆ <sup>1)</sup>for engine codes *BNZ, BPC, BRR, BRS* only
- ◆ <sup>2)</sup>for engine codes *AXA, BDL, BDM, BKK* only
- ◆ <sup>3)</sup>for engine codes *AXB, AXC, AXD, AXE, BLJ* only

**1.10 Position of fuses in fuse holder D, from November 2007**

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
1	- SD1 - Fuse 1 on fuse holder D	5 A	- J293 - Radiator fan control unit - J671-Radiator fan control unit 2	87
2	- SD2 - Fuse 2 on fuse holder D	5 A	- J496-Additional coolant pump relay	30
3	- SD3 - Fuse 3 on fuse holder D	15 A	- J153-Magnetic clutch control unit - J246-Cut-out relay for air conditioning system magnetic coupling	15
4	- SD4 - Fuse 4 on fuse holder D	30 A	- J104 - ABS control unit	30
5	- SD5 - Fuse 5 on fuse holder D	15 A	- J217 - Automatic gearbox control unit	30
6	- SD6 - Fuse 6 on fuse holder D	30 A	- J104 - ABS control unit	30
7	- SD7 - Fuse 7 on fuse holder D	5 A	- J671-Radiator fan control unit 2	87
8	- SD8 - Fuse 8 on fuse holder D	15 A	- Z28 - Lambda probe 2 heater - Z30 - Lambda probe 2 heater after catalytic converter	87
9	- SD9-Fuse 9 on fuse holder D	5 A	- J317-Terminal 30 voltage supply relay - J623 - Engine control unit -	30
10	- SD10 - Fuse 10 on fuse holder D	5 A	- J299 - Secondary air pump relay - J496-Additional coolant pump relay - N18-Exhaust gas recirculation valve - N75 - Charge pressure control solenoid valve - N80 - Activated charcoal filter system solenoid valve 1 - N112-Secondary air inlet valve - N239 - Variable intake manifold flap change-over valve - N345 - Exhaust gas recirculation cooler change-over valve - V144 - Fuel system diagnostic pump	87



No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
11	- SD11 - Fuse 11 on fuse holder D	-	- Vacant	-
12	- SD12-Fuse 12 on fuse holder D	5 A	- N79-Heater element for crankcase breather	15 or 87
13	- SD13 - Fuse 13 on fuse holder D	10 A	- N33 - Injector, cylinder 4 - N83 - Injector, cylinder 5 - N84 - Injector, cylinder 6	87
14	- SD14 - Fuse 14 on fuse holder D	5 A	- J17 - Fuel pump relay - J623 - Engine control unit	15 or 87
15	- SD15 - Fuse 15 on fuse holder D	10 A	- F4 - Reversing light switch	15
16	- SD16 - Fuse 16 on fuse holder D	5 A	- G70 - Air mass meter	15
17	- SD17 - Fuse 17 on fuse holder D	5 A	- E256-TCS and ESP button - J104 - ABS control unit	15
18	- SD18 - Fuse 18 on fuse holder D	-	- Vacant	-
19	- SD19 - Fuse 19 on fuse holder D	5 A	- F36 - Clutch pedal switch - F47-Brake pedal switch	15 or 87
20	- SD20 - Fuse 20 on fuse holder D	5 A	- G70 - Air mass meter - J623 - Engine control unit	15
21	- SD21 - Fuse 21 on fuse holder D	5 A	- N18-Exhaust gas recirculation valve	87

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
22	- SD22 - Fuse 22 on fuse holder D	10 A	- N30 - Injector, cylinder 1 - N31 - Injector, cylinder 2 - N32 - Injector, cylinder 3 - N33 - Injector, cylinder 4	87
23	- SD23 - Fuse 23 on fuse holder D	25 A	- J60 - Automatic gearbox relay	30
24	- SD24 - Fuse 24 on fuse holder D	5 A	- F125 - Multifunction switch	15
25	- SD25 - Fuse 25 on fuse holder D	25 A	- J623 - Engine control unit - N152 - Ignition transformer - N292 - Ignition coil 4 with output stage - N323 - Ignition coil 5 with output stage - N324 - Ignition coil 6 with output stage - SD13 - Fuse 13 on fuse holder D -	87
26	- SD26 - Fuse 26 on fuse holder D	25 A	- N70 - Ignition coil 1 with output stage - N127 - Ignition coil 2 with output stage - N291 - Ignition coil 3 with output stage - SD22 - Fuse 22 on fuse holder D	87
27	- SD27 - Fuse 27 on fuse holder D	5 A	- J496 - Additional coolant pump relay	87
28	- SD28 - Fuse 28 on fuse holder D	15 A	- H2 - Treble tone horn	30
29	- SD29 - Fuse 29 on fuse holder D	20 A	- V192 - Vacuum pump for brakes	87
30	- SD30 - Fuse 30 on fuse holder D	15 A	- G6 - Fuel system pressurisation pump - J17 - Fuel pump relay - J708 - Residual heat relay	30 or 87

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
31	- SD31 - Fuse 31 on fuse holder D	10 A	- Z19 - Lambda probe heater <sup>1)</sup>	87
	- SD31 - Fuse 31 on fuse holder D	15 A	- Z19 - Lambda probe heater <sup>2)</sup> - Z29 - Lambda probe 1 heater after catalytic converter <sup>2)</sup>	87
32	- SD32 - Fuse 32 on fuse holder D	30 A	- J623 - Engine control unit <sup>1), 3)</sup>	87
	- SD32 - Fuse 32 on fuse holder D	5 A	- J49 - Electric fuel pump 2 relay <sup>2)</sup>	87
33	- SD33 - Fuse 33 on fuse holder D	5 A	- G40 - Hall sender - J52 - Glow plug relay <sup>3)</sup> - J179 - Glow plug relay <sup>1)</sup> - J496-Additional coolant pump relay	87
34	- SD34 - Fuse 34 on fuse holder D	5 A	- J519-Onboard power supply control unit	30
35	- SD35 - Fuse 35 on fuse holder D	10 A	- J623 - Engine control unit - N156 - Variable intake manifold change-over valve - N205 - Inlet camshaft control valve 1 - N318 - Exhaust camshaft control valve 1	87
36	- SD36 - Fuse 36 on fuse holder D	30 A	- J207-Starter inhibitor relay	30


**Note**

- ◆ <sup>1)</sup>for engine codes *BNZ, BPC, BRR, BRS* only
- ◆ <sup>2)</sup>for engine codes *AXA, BDL, BDM, BKK* only
- ◆ <sup>3)</sup>for engine codes *AXB, AXC, AXD, AXE, BLJ* only

## 1 Interior fuses (SB and SC)

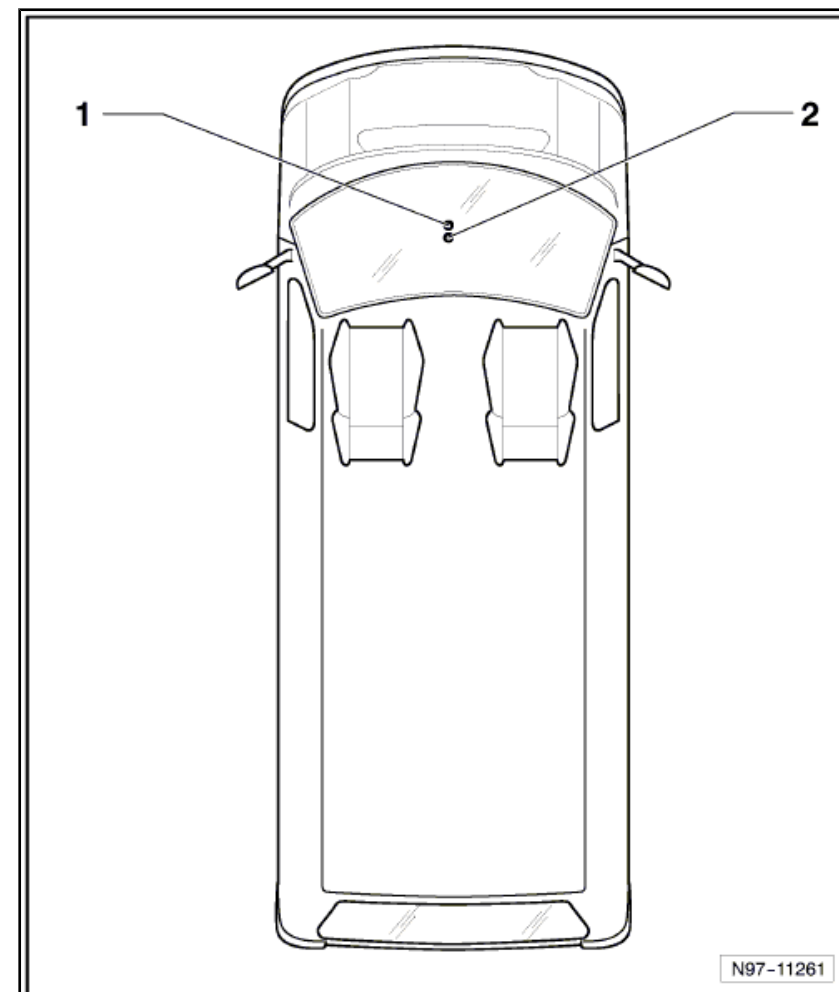
### 1.1 Overview of fuse carrier

#### 1 - Fuses (SB) on fuse holder B, in centre of dash panel

- ☐ Location: ⇒ [page 2](#)
- ☐ Position of fuses, from March 2003 ⇒ [page 3](#)
- ☐ Position of fuses, from June 2004 ⇒ [page 5](#)
- ☐ Position of fuses, from August 2006 ⇒ [page 9](#)
- ☐ Position of fuses, from November 2007 ⇒ [page 11](#)

#### 2 - Fuses (SC) on fuse holder C, in centre of dash panel

- ☐ Location: ⇒ [page 15](#)
- ☐ Position of fuses, from March 2003 ⇒ [page 16](#)
- ☐ Position of fuses, from June 2004 ⇒ [page 18](#)
- ☐ Position of fuses, from August 2006 ⇒ [page 20](#)
- ☐ Position of fuses, from November 2007 ⇒ [page 23](#)



## 1.2 Fuse (SB) on fuse holder B

### 1.2.1 Location:

- ◆ In the upper fuse box on centre of dash panel

Fuse colours

40 A - blue

30 A - green

25 A - white

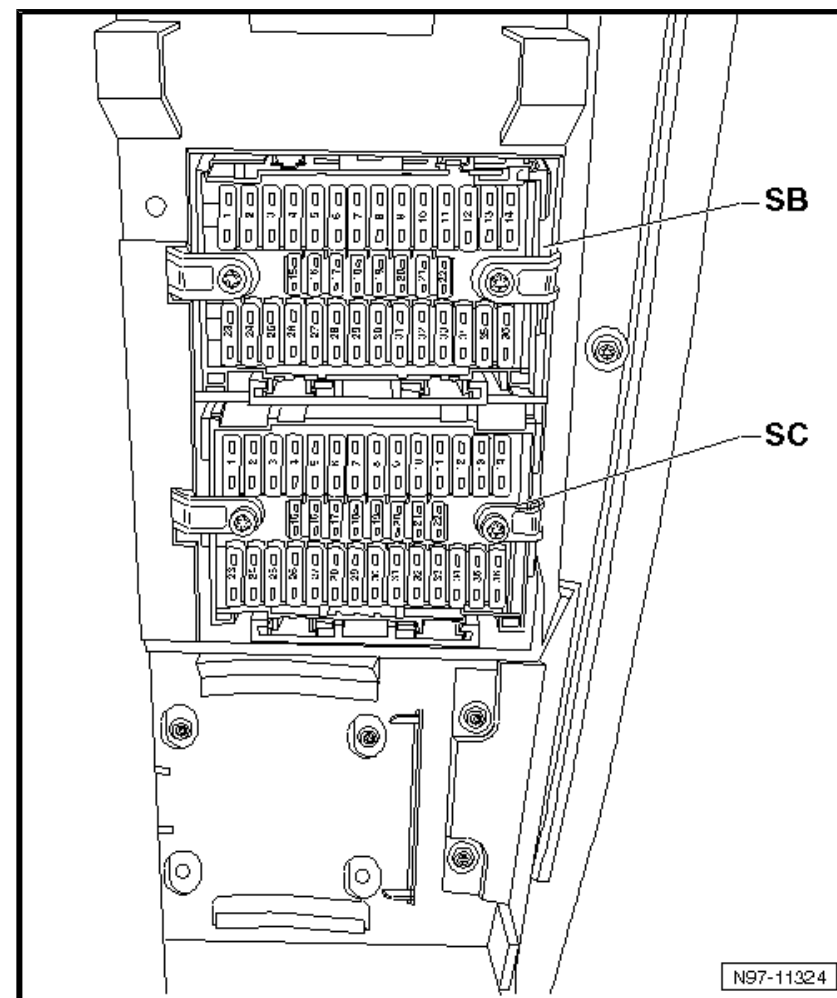
20 A - yellow

15 A - blue

10 A - red

7.5 A - brown

5 A - beige



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### 1.2.2 Position of fuses, from March 2003

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
1	- SB1 - Fuse 1 on fuse holder B	30 A	- J18 - X-contact relay - J487 - Fresh air blower isolation relay - V306-Rear blower Bitron regulation motor <sup>3)</sup>	30
		25 A	- J487 - Fresh air blower isolation relay <sup>5)</sup>	30
2	- SB2 - Fuse 2 on fuse holder B	5 A	- G85 - steering angle sender	30
3	- SB3 - Fuse 3 on fuse holder B	10 A	- J519 - Onboard power supply control unit	30
4	- SB4 - Fuse 4 on fuse holder B	10 A	- E102 - Headlight range control regulator - V48 - Left headlight range control motor - V49 - Right headlight range control motor	56b
5	- SB5 - Fuse 5 on fuse holder B	15 A	- L1 - Left headlight twin filament bulb - M29 - Left headlight dipped beam bulb - S293-Special vehicle fuse 3 <sup>2)</sup>	56b
6	- SB6 - Fuse 6 on fuse holder B	15 A	- L1 - Left headlight twin filament bulb - M30 - Left main beam bulb - S296-Special vehicle fuse 6 <sup>2)</sup>	56a
7	- SB7 - Fuse 7 on fuse holder B	15 A	- J519 - Onboard power supply control unit (interior light)	30
8	- SB8 - Fuse 8 on fuse holder B	5 A	- T16 - 16-pin connector, diagnostic connector	30
9	- SB9 - Fuse 9 on fuse holder B	15 A	- F - Brake light switch <sup>1)</sup>	30
		10 A	- F - Brake light switch <sup>2)</sup>	30
10	- SB10 - Fuse 10 on fuse holder B	5 A	- E22 - Intermittent wiper switch - E34 - Rear wiper switch	15
11	- SB11 - Fuse 11 on fuse holder B	5 A	- E20 - Switches and instruments illumination regulator - X - number plate light	58
12	- SB12 - Fuse 12 on fuse holder B	15 A	- U1 - Cigarette lighter	30
13	- SB13 - Fuse 13 on fuse holder B	5 A	- J419-Brake light additional relay <sup>4)</sup> - J234 - Airbag control unit <sup>5)</sup>	15
14	- SB14 - Fuse 14 on fuse holder B	30 A	- E9 - Fresh air blower switch - E30 - Air conditioning system switch - J493-Auxiliary coolant heater relay - V305 - Front blower Bitron regulation motor	30 or 75x
15	- SB15 - Fuse 15 on fuse holder B	7,5 A	- E30 - Air conditioning system switch - J255 - Climatronic control unit - N280 - Air conditioning system compressor regulating valve	15
16	- SB16 - Fuse 16 on fuse holder B	5 A	- J519 - Onboard power supply control unit	15

17	- SB17 - Fuse 17 on fuse holder B	5 A	- F216 - Rear fog light cut-out contact switch - K13 - Rear fog light warning lamp - L46 - Rear left fog light bulb - U10 -Trailer socket	RFL
18	- SB18 - Fuse 18 on fuse holder B	5 A	- J285 - Control unit in dash panel insert	30
19	- SB19 - Fuse 19 on fuse holder B	5 A	- E153 - Operating and display unit for camping equipment - J285 - Control unit in dash panel insert - J503 - Control unit with display for radio and navigation system - J519 - Onboard power supply control unit - J768 - Roof hydraulics control unit - R - Radio	86s
20	- SB20 - Fuse 20 on fuse holder B	5 A	- M1 - Left side light bulb - M4 - Left tail light bulb - M21 - Left brake and tail light bulb - T10bh-10-pin connector, purple <sup>6)</sup> - U10 -Trailer socket	LPL
21	- SB21 - Fuse 21 on fuse holder B	5 A	- M2 - Right tail light bulb - M3 - Right side light bulb - M22 - Right brake and tail light bulb - U10 -Trailer socket	RPL
22	- SB22 - Fuse 22 on fuse holder B	10 A	- J285 - Control unit in dash panel insert - K45 - Front differential lock warning lamp - T16 - 16-pin connector, diagnostic connector	15
23	- SB23 - Fuse 23 on fuse holder B	25 A	- U10 -Trailer socket <sup>4)</sup>	30
		25 A	- B-Starter <sup>8)</sup>	50
		5 A	- J207 - Starter inhibitor relay <sup>7)</sup>	50
24	- SB24 - Fuse 24 on fuse holder B	5 A	- G85 - steering angle sender	15
25	- SB25 - Fuse 25 on fuse holder B	5 A	- E30 - Air conditioning system switch - J255 - Climatronic control unit	30
26	- SB26 - Fuse 26 on fuse holder B	30 A	- E1 - Lighting switch <sup>5)</sup>	75x
27	- SB27 - Fuse 27 on fuse holder B	15 A	- L2 - Right headlight twin filament bulb - M31 - Right headlight dipped beam bulb - S294-Special vehicle fuse 4 <sup>6)</sup>	56b
28	- SB28 - Fuse 28 on fuse holder B	15 A	- K1 - Main beam warning lamp - L2 - Right headlight twin filament bulb - M32 - Right main beam bulb - S297-Special vehicle fuse 7 <sup>6)</sup>	56a
29	- SB29 - Fuse 29 on fuse holder B		- Vacant	-

30	- SB30 - Fuse 30 on fuse holder B	10 A	- V12 - Rear window wiper motor - V92 - Rear left wing door window wiper motor - V93 - Rear right wing door window wiper motor - Z20 - Left washer jet heater element - Z21 - Right washer jet heater element	75x
31	- SB31 - Fuse 31 on fuse holder B	30 A	- J519-Onboard power supply control unit (signal horn)	30
32	- SB32 - Fuse 32 on fuse holder B	25 A	- J519-Onboard power supply control unit (windscreen wiper motor)	30
33	- SB33 - Fuse 33 on fuse holder B	15 A	- J503 - Control unit with display for radio and navigation system - J559-Traffic information control unit - R - Radio	30
34	- SB34 - Fuse 34 on fuse holder B	25 A	- G22-Speedometer sender - G70 - Air mass meter - J60 - Automatic gearbox relay - J623 - Engine control unit	15
35	- SB35 - Fuse 35 on fuse holder B	5 A	- Instruments illumination	58d
36	- SB36 - Fuse 36 on fuse holder B	25 A	- J519-Onboard power supply control unit (turn signal)	30


**Note**

- ◆ <sup>1)</sup>applicable up to August 2003
- ◆ <sup>2)</sup>applicable from September 2003
- ◆ <sup>3)</sup>applicable from June 2003
- ◆ <sup>4)</sup>applicable up to January 2004
- ◆ <sup>5)</sup>applicable from February 2004
- ◆ <sup>6)</sup>for models with electric interface only (UF1)
- ◆ <sup>7)</sup>applicable from February 2004, manual gearbox with electric interface
- ◆ <sup>8)</sup>applicable from February 2004, for manual gearbox without electric interface only

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### 1.2.3 Position of fuses, from June 2004

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
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1	-	SB1 - Fuse 1 on fuse holder B	25 A	- J487 - Fresh air blower isolation relay	30
			30 A	- V306-Rear blower Bitron regulation motor	30
2	-	SB2 - Fuse 2 on fuse holder B	5 A	- G85 - steering angle sender	30
3	-	SB3 - Fuse 3 on fuse holder B	10 A	- J519 - Onboard power supply control unit	30
4	-	SB4 - Fuse 4 on fuse holder B	10 A	- E102 - Headlight range control regulator - V48 - Left headlight range control motor - V49 - Right headlight range control motor	56b
5	-	SB5 - Fuse 5 on fuse holder B	15 A	- L1 - Left headlight twin filament bulb - M29 - Left headlight dipped beam bulb - S293-Special vehicle fuse 3 <sup>2)</sup>	56b
6	-	SB6 - Fuse 6 on fuse holder B	15 A	- L1 - Left headlight twin filament bulb - M30 - Left main beam bulb - S296-Special vehicle fuse 6 <sup>2)</sup>	56a
7	-	SB7 - Fuse 7 on fuse holder B	15 A	- J519 - Onboard power supply control unit (interior light) <sup>1)</sup>	30
8	-	SB8 - Fuse 8 on fuse holder B	5 A	- T16 - 16-pin connector, diagnostic connector	30
9	-	SB9 - Fuse 9 on fuse holder B	10 A	- F - Brake light switch	30
10	-	SB10 - Fuse 10 on fuse holder B	10 A	- E22 - Intermittent wiper switch - E34 - Rear wiper switch	15
11	-	SB11 - Fuse 11 on fuse holder B	5 A	- X - number plate light	58
12	-	SB12 - Fuse 12 on fuse holder B	15 A	- U1 - Cigarette lighter	30
13	-	SB13 - Fuse 13 on fuse holder B	5 A	- J234 - Airbag control unit	15
14	-	SB14 - Fuse 14 on fuse holder B	30 A	- E9 - Fresh air blower switch - E30 - Air conditioning system switch - J493-Auxiliary coolant heater relay - V305 - Front blower Bitron regulation motor	30 or 75x
15	-	SB15 - Fuse 15 on fuse holder B	7,5 A	- E30 - Air conditioning system switch - E159 - Fresh air/air recirculation flap switch - E179 - Rear fresh air blower switch - J255 - Climatronic control unit - N280 - Air conditioning system compressor regulating valve	15 <sup>3)</sup> 15 <sup>4)</sup> 75x <sup>5)</sup>
16	-	SB16 - Fuse 16 on fuse holder B	5 A	- J519 - Onboard power supply control unit	15
17	-	SB17 - Fuse 17 on fuse holder B	5 A	- F216 - Rear fog light cut-out contact switch - K13 - Rear fog light warning lamp - L46 - Rear left fog light bulb - U10 - Trailer socket	RFL
18	-	SB18 - Fuse 18 on fuse holder B	5 A	- J285 - Control unit in dash panel insert	30

19	- SB19 - Fuse 19 on fuse holder B	5 A	- E153 - Operating and display unit for camping equipment - J285 - Control unit in dash panel insert - J503 - Control unit with display for radio and navigation system - J519 - Onboard power supply control unit - J768 - Roof hydraulics control unit - R - Radio - S291-Special vehicle fuse 1 <sup>2)</sup>	86s
20	- SB20 - Fuse 20 on fuse holder B	5 A	- M1 - Left side light bulb - M4 - Left tail light bulb - M21 - Left brake and tail light bulb - T10bh-10-pin connector, purple <sup>2)</sup> - U10 -Trailer socket	LPL
21	- SB21 - Fuse 21 on fuse holder B	5 A	- M2 - Right tail light bulb - M3 - Right side light bulb - M22 - Right brake and tail light bulb - U10 -Trailer socket	RPL
22	- SB22 - Fuse 22 on fuse holder B	10 A	- J285 - Control unit in dash panel insert - K145 - Front passenger side airbag deactivated warning lamp - T16 - 16-pin connector, diagnostic connector	15
23	- SB23 - Fuse 23 on fuse holder B	40 A	- B-Starter <sup>6)</sup>	50
		25 A	- B-Starter <sup>7)</sup>	50
		30 A	- B-Starter <sup>8)</sup>	50
		5 A	- J207 - Starter inhibitor relay <sup>9)</sup>	50
24	- SB24 - Fuse 24 on fuse holder B	5 A	- G85 - steering angle sender	15
25	- SB25 - Fuse 25 on fuse holder B	5 A	- E30 - Air conditioning system switch - E159 - Fresh air/air recirculation flap switch - J255 - Climatronic control unit	30
26	- SB26 - Fuse 26 on fuse holder B	30 A	- E1 - Lighting switch	75x
27	- SB27 - Fuse 27 on fuse holder B	15 A	- L2 - Right headlight twin filament bulb - M31 - Right headlight dipped beam bulb - S294-Special vehicle fuse 4 <sup>2)</sup>	56b
28	- SB28 - Fuse 28 on fuse holder B	15 A	- K1 - Main beam warning lamp - L2 - Right headlight twin filament bulb - M32 - Right main beam bulb - S297-Special vehicle fuse 7 <sup>2)</sup>	56a
29	- SB29 - Fuse 29 on fuse holder B	10 A	- J741-Dual signal inverter relay	30
30	- SB30 - Fuse 30 on fuse holder B	10 A	- V12 - Rear window wiper motor - V92 - Rear left wing door window wiper motor - V93 - Rear right wing door window wiper motor - Z20 - Left washer jet heater element - Z21 - Right washer jet heater element	75x

31	- SB31 - Fuse 31 on fuse holder B	30 A	- J519-Onboard power supply control unit (signal horn)	30
32	- SB32 - Fuse 32 on fuse holder B	25 A	- J519-Onboard power supply control unit (windscreen wiper motor)	30
33	- SB33 - Fuse 33 on fuse holder B	15 A	- J503 - Control unit with display for radio and navigation system - J559-Traffic information control unit - R - Radio	30
34	- SB34 - Fuse 34 on fuse holder B	25 A	- J60 - Automatic gearbox relay - SD3 - Fuse 3 on fuse holder D - SD12-Fuse 12 on fuse holder D - SD14 - Fuse 14 on fuse holder D - SD15 - Fuse 15 on fuse holder D - SD16 - Fuse 16 on fuse holder D - SD17 - Fuse 17 on fuse holder D - SD19 - Fuse 19 on fuse holder D - SD20 - Fuse 20 on fuse holder D - SD24 - Fuse 24 on fuse holder D - D17 - Positive connection 1 (15), in engine harness	15
35	- SB35 - Fuse 35 on fuse holder B	5 A	- Instruments illumination	58d
36	- SB36 - Fuse 36 on fuse holder B	25 A	- J519-Onboard power supply control unit (turn signal)	30


**Note**

- ◆ <sup>1)</sup>for models with roof console only
- ◆ <sup>2)</sup>for models with electric interface only (UF1)
- ◆ <sup>3)</sup>for models with Climatronic only
- ◆ <sup>4)</sup>for models without Climatronic only, applicable up to December 2005
- ◆ <sup>5)</sup>for models without Climatronic only, applicable from January 2006
- ◆ <sup>6)</sup>for models with manual gearbox and without electric interface only, applicable up to December 2004
- ◆ <sup>7)</sup>for models with manual gearbox and without electric interface only, applicable from January 2005 up to December 2005
- ◆ <sup>8)</sup>for models with manual gearbox and without electric interface only, applicable from January 2006
- ◆ <sup>9)</sup>for models with manual gearbox and electric interface only

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## 1.2.4 Fuse location from August 2006

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
1	- SB1 - Fuse 1 on fuse holder B	25 A	- J487 - Fresh air blower isolation relay	30
		30 A	- V306-Rear blower Bitron regulation motor	30
2	- SB2 - Fuse 2 on fuse holder B	5 A	- G85 - steering angle sender	30
3	- SB3 - Fuse 3 on fuse holder B	10 A	- J519 - Onboard power supply control unit	30
4	- SB4 - Fuse 4 on fuse holder B	10 A	- E102 - Headlight range control regulator - V48 - Left headlight range control motor - V49 - Right headlight range control motor	56b
5	- SB5 - Fuse 5 on fuse holder B	15 A	- L1 - Left headlight twin filament bulb - M29 - Left headlight dipped beam bulb - S293-Special vehicle fuse 3 <sup>2)</sup>	56b
6	- SB6 - Fuse 6 on fuse holder B	15 A	- L1 - Left headlight twin filament bulb - M30 - Left main beam bulb - S296-Special vehicle fuse 6 <sup>2)</sup>	56a
7	- SB7 - Fuse 7 on fuse holder B	15 A	- J519 - Onboard power supply control unit (interior light) <sup>1)</sup>	30
8	- SB8 - Fuse 8 on fuse holder B	5 A	- T16 - 16-pin connector, diagnostic connector	30
9	- SB9 - Fuse 9 on fuse holder B	10 A	- F - Brake light switch	30
10	- SB10 - Fuse 10 on fuse holder B	10 A	- E22 - Intermittent wiper switch - E34 - Rear wiper switch	15
11	- SB11 - Fuse 11 on fuse holder B	5 A	- X - number plate light	58
12	- SB12 - Fuse 12 on fuse holder B	15 A	- U1 - Cigarette lighter	30
13	- SB13 - Fuse 13 on fuse holder B	5 A	- J234 - Airbag control unit	15
14	- SB14 - Fuse 14 on fuse holder B	30 A	- E9 - Fresh air blower switch - E30 - Air conditioning system switch - J493-Auxiliary coolant heater relay - V305 - Front blower Bitron regulation motor	30 or 75x
15	- SB15 - Fuse 15 on fuse holder B	7,5 A	- E30 - Air conditioning system switch - E159 - Fresh air/air recirculation flap switch - E179 - Rear fresh air blower switch - J255 - Climatronic control unit - N280 - Air conditioning system compressor regulating valve	15 <sup>3)</sup> 75x <sup>4)</sup>
16	- SB16 - Fuse 16 on fuse holder B	5 A	- J519 - Onboard power supply control unit	15
17	- SB17 - Fuse 17 on fuse holder B	5 A	- F216 - Rear fog light cut-out contact switch - K13 - Rear fog light warning lamp - L46 - Rear left fog light bulb - U10 -Trailer socket	RFL
18	- SB18 - Fuse 18 on fuse holder B	5 A	- J285 - Control unit in dash panel insert	30

19	- SB19 - Fuse 19 on fuse holder B	5 A	- E153 - Operating and display unit for camping equipment - J285 - Control unit in dash panel insert - J503 - Control unit with display for radio and navigation system - J519 - Onboard power supply control unit - J768 - Roof hydraulics control unit - R - Radio - S291-Special vehicle fuse 1 <sup>2)</sup>	86s
20	- SB20 - Fuse 20 on fuse holder B	5 A	- M1 - Left side light bulb - M4 - Left tail light bulb - M21 - Left brake and tail light bulb - T10bh-10-pin connector, purple <sup>2)</sup> - U10 -Trailer socket	LPL
21	- SB21 - Fuse 21 on fuse holder B	5 A	- M2 - Right tail light bulb - M3 - Right side light bulb - M22 - Right brake and tail light bulb - U10 -Trailer socket	RPL
22	- SB22 - Fuse 22 on fuse holder B	10 A	- J285 - Control unit in dash panel insert - K145 - Front passenger side airbag deactivated warning lamp - T16 - 16-pin connector, diagnostic connector - T16j - 16-pin connector, diagnostic connector 2 <sup>5)</sup>	15
23	- SB23 - Fuse 23 on fuse holder B	30 A	- B-Starter <sup>6)</sup>	50
		5 A	- J207 - Starter inhibitor relay <sup>7)</sup>	50
24	- SB24 - Fuse 24 on fuse holder B	5 A	- G85 - steering angle sender	15
25	- SB25 - Fuse 25 on fuse holder B	5 A	- E30 - Air conditioning system switch - E159 - Fresh air/air recirculation flap switch - J255 - Climatronic control unit	30
26	- SB26 - Fuse 26 on fuse holder B	30 A	- E1 - Lighting switch	75x
27	- SB27 - Fuse 27 on fuse holder B	15 A	- L2 - Right headlight twin filament bulb - M31 - Right headlight dipped beam bulb - S294-Special vehicle fuse 4 <sup>2)</sup>	56b
28	- SB28 - Fuse 28 on fuse holder B	15 A	- K1 - Main beam warning lamp - L2 - Right headlight twin filament bulb - M32 - Right main beam bulb - S297-Special vehicle fuse 7 <sup>2)</sup>	56a
29	- SB29 - Fuse 29 on fuse holder B	10 A	- J741-Dual signal inverter relay	30
30	- SB30 - Fuse 30 on fuse holder B	10 A	- V12 - Rear window wiper motor - V92 - Rear left wing door window wiper motor - V93 - Rear right wing door window wiper motor - Z20 - Left washer jet heater element - Z21 - Right washer jet heater element	75x
31	- SB31 - Fuse 31 on fuse holder B	30 A	- J519-Onboard power supply control unit (signal horn)	30
32	- SB32 - Fuse 32 on fuse holder B	25 A	- J519-Onboard power supply control unit (windscreen wiper motor)	30

33	- SB33 - Fuse 33 on fuse holder B	15 A	- J503 - Control unit with display for radio and navigation system - J559-Traffic information control unit - R - Radio	30
34	- SB34 - Fuse 34 on fuse holder B	25 A	- J60 - Automatic gearbox relay - SD3 - Fuse 3 on fuse holder D - SD12-Fuse 12 on fuse holder D - SD14 - Fuse 14 on fuse holder D - SD15 - Fuse 15 on fuse holder D - SD16 - Fuse 16 on fuse holder D - SD17 - Fuse 17 on fuse holder D - SD19 - Fuse 19 on fuse holder D - SD20 - Fuse 20 on fuse holder D - SD24 - Fuse 24 on fuse holder D - D17 - Positive connection 1 (15), in engine harness	15
35	- SB35 - Fuse 35 on fuse holder B	5 A	- Instruments illumination	58d
36	- SB36 - Fuse 36 on fuse holder B	25 A	- J519-Onboard power supply control unit (turn signal)	30


**Note**

- ♦ <sup>1)</sup>for models with roof console only
- ♦ <sup>2)</sup>for models with electric interface only (UF1)
- ♦ <sup>3)</sup>for models with Climatronic only
- ♦ <sup>4)</sup>for models without Climatronic only
- ♦ <sup>5)</sup>applicable from June 2007
- ♦ <sup>6)</sup>for models with manual gearbox and without electric interface only
- ♦ <sup>7)</sup>for models with manual gearbox and electric interface only

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### 1.2.5 Position of fuses, from November 2007

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
1	- SB1 - Fuse 1 on fuse holder B	25 A	- J487 - Fresh air blower isolation relay	30
		30 A	- V306-Rear blower Bitron regulation motor	30
2	- SB2 - Fuse 2 on fuse holder B	5 A	- G85 - steering angle sender	30

3	- SB3 - Fuse 3 on fuse holder B	10 A	- J519 - Onboard power supply control unit	30
4	- SB4 - Fuse 4 on fuse holder B	10 A	- E102 - Headlight range control regulator - V48 - Left headlight range control motor - V49 - Right headlight range control motor	56b
5	- SB5 - Fuse 5 on fuse holder B	15 A	- L1 - Left headlight twin filament bulb - M29 - Left headlight dipped beam bulb - S293-Special vehicle fuse 3 <sup>2)</sup>	56b
6	- SB6 - Fuse 6 on fuse holder B	15 A	- L1 - Left headlight twin filament bulb - M30 - Left main beam bulb - S296-Special vehicle fuse 6 <sup>2)</sup>	56a
7	- SB7 - Fuse 7 on fuse holder B	15 A	- J519 - Onboard power supply control unit (interior light) <sup>1)</sup>	30
8	- SB8 - Fuse 8 on fuse holder B	5 A	- T16 - 16-pin connector, diagnostic connector	30
9	- SB9 - Fuse 9 on fuse holder B	10 A	- F - Brake light switch	30
10	- SB10 - Fuse 10 on fuse holder B	10 A	- E22 - Intermittent wiper switch - E34 - Rear wiper switch	15
11	- SB11 - Fuse 11 on fuse holder B	5 A	- X - number plate light	58
12	- SB12 - Fuse 12 on fuse holder B	15 A	- U1 - Cigarette lighter	30
13	- SB13 - Fuse 13 on fuse holder B	5 A	- J234 - Airbag control unit	15
14	- SB14 - Fuse 14 on fuse holder B	-	- Vacant	-
		30 A	- E4 - Headlight dipper/flasher switch <sup>5)</sup>	30
15	- SB15 - Fuse 15 on fuse holder B	7,5 A	- E30 - Air conditioning system switch - E159 - Fresh air/air recirculation flap switch - E179 - Rear fresh air blower switch - J255 - Climatronic control unit - N280 - Air conditioning system compressor regulating valve	15 <sup>3)</sup> 75x <sup>4)</sup>
16	- SB16 - Fuse 16 on fuse holder B	5 A	- J519 - Onboard power supply control unit	15
17	- SB17 - Fuse 17 on fuse holder B	5 A	- F216 - Rear fog light cut-out contact switch - K13 - Rear fog light warning lamp - L46 - Rear left fog light bulb - U10 - Trailer socket	RFL
18	- SB18 - Fuse 18 on fuse holder B	5 A	- J285 - Control unit in dash panel insert	30
19	- SB19 - Fuse 19 on fuse holder B	5 A	- E153 - Operating and display unit for camping equipment - J285 - Control unit in dash panel insert - J503 - Control unit with display for radio and navigation system - J519 - Onboard power supply control unit - J768 - Roof hydraulics control unit - R - Radio - S291-Special vehicle fuse 1 <sup>2)</sup>	86s

20	- SB20 - Fuse 20 on fuse holder B	5 A	- M1 - Left side light bulb - M4 - Left tail light bulb - M21 - Left brake and tail light bulb - T10bh-10-pin connector, purple <sup>2)</sup> - U10 -Trailer socket	LPL
21	- SB21 - Fuse 21 on fuse holder B	5 A	- M2 - Right tail light bulb - M3 - Right side light bulb - M22 - Right brake and tail light bulb - U10 -Trailer socket	RPL
22	- SB22 - Fuse 22 on fuse holder B	7,5 A	- J285 - Control unit in dash panel insert - K145 - Front passenger side airbag deactivated warning lamp - T16 - 16-pin connector, diagnostic connector - T16j - 16-pin connector, diagnostic connector 2	15
23	- SB23 - Fuse 23 on fuse holder B	30 A	- B-Starter <sup>6)</sup>	50
		5 A	- J207 - Starter inhibitor relay <sup>7)</sup> - T10bj-10-pin connector, yellow <sup>7)</sup>	50
24	- SB24 - Fuse 24 on fuse holder B	5 A	- G85 - steering angle sender	15
25	- SB25 - Fuse 25 on fuse holder B	5 A	- E30 - Air conditioning system switch - E159 - Fresh air/air recirculation flap switch - J255 - Climatronic control unit	30
26	- SB26 - Fuse 26 on fuse holder B	30 A	- E1 - Lighting switch	75x
27	- SB27 - Fuse 27 on fuse holder B	15 A	- L2 - Right headlight twin filament bulb - M31 - Right headlight dipped beam bulb - S294-Special vehicle fuse 4 <sup>2)</sup>	56b
28	- SB28 - Fuse 28 on fuse holder B	15 A	- K1 - Main beam warning lamp - L2 - Right headlight twin filament bulb - M32 - Right main beam bulb - S297-Special vehicle fuse 7 <sup>2)</sup>	56a
29	- SB29 - Fuse 29 on fuse holder B	10 A	- J741-Dual signal inverter relay	30
30	- SB30 - Fuse 30 on fuse holder B	10 A	- V12 - Rear window wiper motor - V92 - Rear left wing door window wiper motor - V93 - Rear right wing door window wiper motor - Z20 - Left washer jet heater element - Z21 - Right washer jet heater element	75x
31	- SB31 - Fuse 31 on fuse holder B	30 A	- J519-Onboard power supply control unit (signal horn)	30
32	- SB32 - Fuse 32 on fuse holder B	25 A	- J519-Onboard power supply control unit (windscreen wiper motor)	30
33	- SB33 - Fuse 33 on fuse holder B	15 A	- J503 - Control unit with display for radio and navigation system - J559-Traffic information control unit - R - Radio	30



34	- SB34 - Fuse 34 on fuse holder B	25 A	- J60 - Automatic gearbox relay - SD3 - Fuse 3 on fuse holder D - SD12-Fuse 12 on fuse holder D - SD14 - Fuse 14 on fuse holder D - SD15 - Fuse 15 on fuse holder D - SD16 - Fuse 16 on fuse holder D - SD17 - Fuse 17 on fuse holder D - SD19 - Fuse 19 on fuse holder D - SD20 - Fuse 20 on fuse holder D - SD24 - Fuse 24 on fuse holder D - D17 - Positive connection 1 (15), in engine harness	15
35	- SB35 - Fuse 35 on fuse holder B	5 A	- Instruments illumination	58d
36	- SB36 - Fuse 36 on fuse holder B	25 A	- J519-Onboard power supply control unit (turn signal)	30


**Note**

- ◆ <sup>1)</sup>for models with roof console only
- ◆ <sup>2)</sup>for models with electric interface only (UF1)
- ◆ <sup>3)</sup>for models with Climatronic only
- ◆ <sup>4)</sup>for models without Climatronic only
- ◆ <sup>5)</sup>applicable from June 2008
- ◆ <sup>6)</sup>for models with manual gearbox and without electric interface only
- ◆ <sup>7)</sup>for models with manual gearbox and electric interface only

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## 1.3 Fuses (SC) on fuse holder C

### 1.3.1 Location:

- ◆ In the lower fuse box on centre of dash panel

Fuse colours

30 A - blue

30 A - green

25 A - white

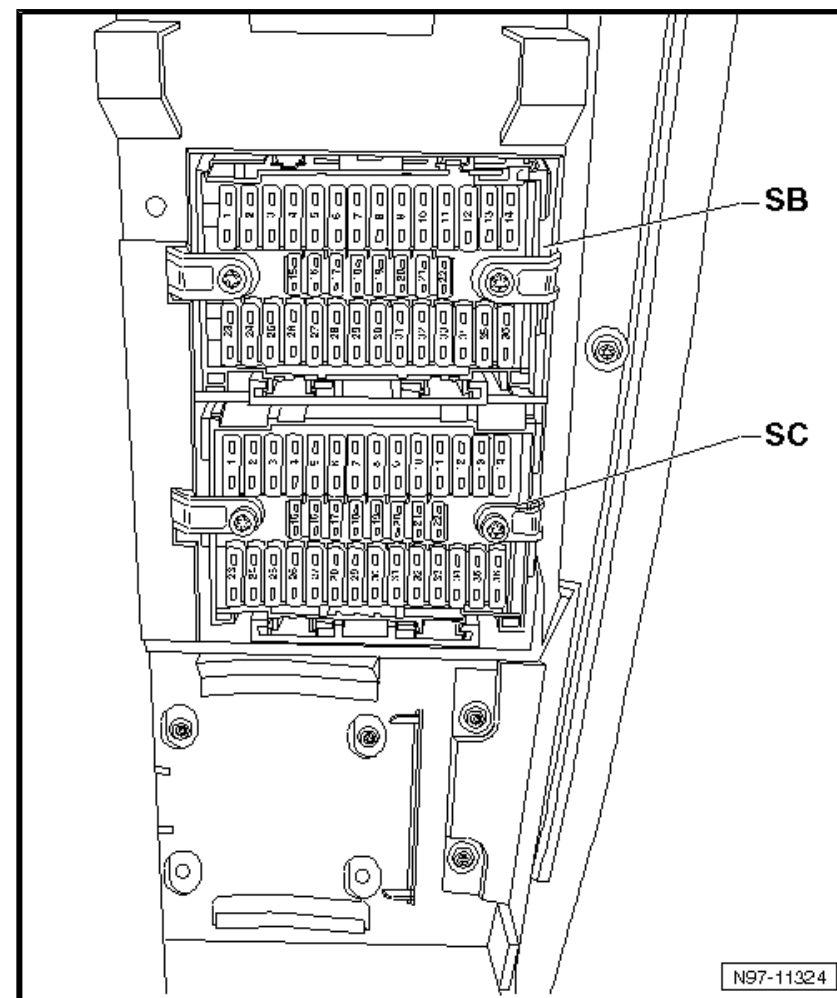
20 A - yellow

15 A - blue

10 A - red

7.5 A - brown

5 A - beige



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### 1.3.2 Position of fuses, from March 2003

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
1	- SC1 - Fuse 1 on fuse holder C	15 A	- U18 - 12 V socket -2-	30
2	- SC2 - Fuse 2 on fuse holder C	5 A	- G303 - Interior monitor send and receive module 1 - G305 - Interior monitor send and receive module 2	30
3	- SC3 - Fuse 3 on fuse holder C	5 A	- V320 - Right auxiliary blower - V321 - Left auxiliary blower	75x
4	- SC4 - Fuse 4 on fuse holder C	15 A	- U19 - 12 V socket 3	30
5	- SC5-Fuse 5 on fuse holder C	15 A	- J698-Refrigerator box	30
6	- SC6 - Fuse 6 on fuse holder C	5 A	- G226 - Oil level and oil temperature sender	15
7	- SC7 - Fuse 7 on fuse holder C	10 A	- J180 - Switch-over relay 1 for roof ventilator	30
8	- SC8 - Fuse 8 on fuse holder C	5 A	- J446 - Parking aid control unit	15
9	- SC9 - Fuse 9 on fuse holder C	5 A	- J453-Multifunction steering wheel control unit	30
10	- SC10 - Fuse 10 on fuse holder C	30 A	- R12 - Amplifier	30
11	- SC11 - Fuse 11 on fuse holder C	20 A	- J393 - Convenience system central control unit - J558 - Left sliding door control unit - J605 - Rear lid control unit - J731-Right sliding door control unit	30
12	- SC12 - Fuse 12 on fuse holder C	5 A	- J493-Auxiliary coolant heater relay <sup>1)</sup>	75x
		5 A	- J419-Brake light additional relay <sup>2)</sup>	15
13	- SC13 - Fuse 13 on fuse holder C	5 A	- E45-Cruise control system switch - E221 - Operating unit in steering wheel - F138 - Airbag coil connector and return spring with slip ring	15
14	- SC14 - Fuse 14 on fuse holder C	5 A	- J412 - Mobile telephone operating electronics control unit	30
15	- SC15 - Fuse 15 on fuse holder C	5 A	- J98-Gearshift indicator control unit	15
16	- SC16 - Fuse 16 on fuse holder C	5 A	- J503 - Control unit with display for radio and navigation system	15
17	- SC17 - Fuse 17 on fuse holder C	5 A 7,5 A	- E265 - Rear Climatronic operating and display unit <sup>1)</sup> - J519 - Onboard power supply control unit (interior light) <sup>2)</sup>	30
18	- SC18 - Fuse 18 on fuse holder C	5 A	- E179 - Rear fresh air blower switch - E265 - Rear Climatronic operating and display unit <sup>2)</sup>	15 30
19	- SC19 - Fuse 19 on fuse holder C	5 A	- Y7 - Automatic anti-dazzle interior mirror	15
20	- SC20 - Fuse 20 on fuse holder C	10 A	- J519-Onboard power supply control unit (heated exterior mirror)	30
21	- SC21 - Fuse 21 on fuse holder C	5 A	- G303 - Interior monitor send and receive module 1	15
22	- SC22 - Fuse 22 on fuse holder C	5 A	- G65 - High-pressure sender - G238 - Air quality sensor	15

23	- SC23 - Fuse 23 on fuse holder C	5 A <sup>3)</sup> 10 A <sup>4)</sup>	- E153 - Operating and display unit for camping equipment - E407-Auxiliary heater operating and display unit - J708 - Residual heat relay - R149-Remote control receiver for auxiliary coolant heater	30
24	- SC24 - Fuse 24 on fuse holder C	5 A	- E153 - Operating and display unit for camping equipment <sup>1)</sup>	15
25	- SC25 - Fuse 25 on fuse holder C	15 A	- E94 - Heated driver seat regulator - E95 - Heated front passenger seat regulator - G59 - Driver seat temperature sensor - G60 - Front passenger seat temperature sensor	75x
26	- SC26 - Fuse 26 on fuse holder C	10 A	- G24 - Tachograph	30
27	- SC27 - Fuse 27 on fuse holder C	15 A	- L22 - Left fog light bulb - L23 - Right fog light bulb - S298-Special vehicle fuse 8 <sup>6)</sup> , 7)	FL
28	- SC28 - Fuse 28 on fuse holder C	5 A	- E43 - Mirror adjustment switch	15
29	- SC29 - Fuse 29 on fuse holder C	25 A	- J364 - Auxiliary heater control unit	30
30	- SC30 - Fuse 30 on fuse holder C	5 A	- E153 - Operating and display unit for camping equipment	15
		5 A	- J493-Auxiliary coolant heater relay <sup>1)</sup>	75x
31	- SC31 - Fuse 31 on fuse holder C	25 A	- J245 - Sliding sunroof adjustment control unit	30
32	- SC32 - Fuse 32 on fuse holder C	20 A	- J39 - Headlight washer system relay	30
33	- SC33-Fuse 33 on fuse holder C	5 A	- G24 - Tachograph	15
34	- SC34 - Fuse 34 on fuse holder C	20 A	- V192 - Vacuum pump for brakes <sup>1)</sup>	75x
		25 A	- U10 -Trailer socket <sup>2)</sup>	30
35	- SC35 - Fuse 35 on fuse holder C	10 A	- J519 - Onboard power supply control unit	30
36	- SC36 - Fuse 36 on fuse holder C	15 A	- U20 - 12 V socket -4- <sup>5)</sup>	30
		5 A	- E153 - Operating and display unit for camping equipment <sup>6)</sup> - Special vehicles <sup>6)</sup> , 7)	15


**Note**

- ◆ <sup>1)</sup>applicable up to January 2004
- ◆ <sup>2)</sup>applicable from February 2004
- ◆ <sup>3)</sup>applicable up to May 2003
- ◆ <sup>4)</sup>applicable from June 2003
- ◆ <sup>5)</sup>applicable up to May 2004
- ◆ <sup>6)</sup>applicable from March 2004
- ◆ <sup>7)</sup>for models with electric interface only (UF1)

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### 1.3.3 Position of fuses, from June 2004

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
1	- SC1 - Fuse 1 on fuse holder C	25 A	- U10 -Trailer socket	30
2	- SC2 - Fuse 2 on fuse holder C	5 A	- G305 - Interior monitor send and receive module 2 - J529-Anti-theft and tilt system control unit	30
3	- SC3 - Fuse 3 on fuse holder C	5 A	- V320 - Right auxiliary blower - V321 - Left auxiliary blower	75x
4	- SC4 - Fuse 4 on fuse holder C	10 A	- J492 - Four-wheel drive control unit	15
5	- SC5-Fuse 5 on fuse holder C	10 A	- T6bn-6-pin connector, grey	75x
6	- SC6 - Fuse 6 on fuse holder C	5 A	- G226 - Oil level and oil temperature sender	15
7	- SC7 - Fuse 7 on fuse holder C	10 A	- B320 - Positive connection -6- (30), in main wiring harness <sup>1)</sup>	30
		15 A	- U20 - 12 V socket -4- <sup>2)</sup>	30
8	- SC8 - Fuse 8 on fuse holder C	5 A	- J446 - Parking aid control unit	15
9	- SC9 - Fuse 9 on fuse holder C	5 A	- J453-Multifunction steering wheel control unit	30
10	- SC10 - Fuse 10 on fuse holder C	30 A	- R12 - Amplifier	30

11	-	SC11 - Fuse 11 on fuse holder C	15 A	-	J605 - Rear lid control unit	30
			20 A	-	H12 - Alarm horn - J393 - Convenience system central control unit - J558 - Left sliding door control unit - J605 - Rear lid control unit - J731-Right sliding door control unit	30
12	-	SC12 - Fuse 12 on fuse holder C	5 A	-	J419-Brake light additional relay	15
			10 A	-	J419-Brake light additional relay <sup>3)</sup> , <sup>7)</sup>	15
13	-	SC13 - Fuse 13 on fuse holder C	5 A	-	E45-Cruise control system switch - E221 - Operating unit in steering wheel - F138 - Airbag coil connector and return spring with slip ring	15
14	-	SC14 - Fuse 14 on fuse holder C	5 A	-	J412 - Mobile telephone operating electronics control unit	30
15	-	SC15 - Fuse 15 on fuse holder C	5 A	-	J98-Gearshift indicator control unit	15
16	-	SC16 - Fuse 16 on fuse holder C	5 A	-	J503 - Control unit with display for radio and navigation system - J412 - Mobile telephone operating electronics control unit	15
17	-	SC17 - Fuse 17 on fuse holder C	7,5 A	-	J519 - Onboard power supply control unit (interior light) - B315 - Positive connection -1- (30), in main wiring harness	30
18	-	SC18 - Fuse 18 on fuse holder C	5 A	-	E179 - Rear fresh air blower switch	15
			5 A	-	E265 - Rear Climatronic operating and display unit	30
19	-	SC19 - Fuse 19 on fuse holder C	5 A	-	Y7 - Automatic anti-dazzle interior mirror	15
20	-	SC20 - Fuse 20 on fuse holder C	10 A	-	J519-Onboard power supply control unit (heated exterior mirror)	30
21	-	SC21 - Fuse 21 on fuse holder C	5 A	-	J529-Anti-theft and tilt system control unit	15
22	-	SC22 - Fuse 22 on fuse holder C	5 A	-	G65 - High-pressure sender - G238 - Air quality sensor	15
23	-	SC23 - Fuse 23 on fuse holder C	10 A	-	E153 - Operating and display unit for camping equipment - E407-Auxiliary heater operating and display unit - J708 - Residual heat relay - R149-Remote control receiver for auxiliary coolant heater	30
24	-	SC24 - Fuse 24 on fuse holder C	7,5 A	-	B250-Positive connection in roof wiring harness (interior lighting)	30g
25	-	SC25 - Fuse 25 on fuse holder C	15 A	-	E94 - Heated driver seat regulator - E95 - Heated front passenger seat regulator - J131 - Heated driver seat control unit - J132 - Heated front passenger seat control unit	75x
			25 A	-	J774 -Heated front seats control unit <sup>7)</sup>	75x
26	-	SC26 - Fuse 26 on fuse holder C	10 A	-	G24 - Tachograph <sup>4)</sup>	30
			15 A	-	U18 - 12 V socket -2- <sup>5)</sup>	30
27	-	SC27 - Fuse 27 on fuse holder C	15 A	-	L22 - Left fog light bulb - L23 - Right fog light bulb - S298-Special vehicle fuse <sup>8)</sup>	FL

28	- SC28 - Fuse 28 on fuse holder C	5 A	- E43 - Mirror adjustment switch	15
29	- SC29 - Fuse 29 on fuse holder C	25 A	- J364 - Auxiliary heater control unit	30
30	- SC30 - Fuse 30 on fuse holder C	5 A	- E153 - Operating and display unit for camping equipment	15
		5 A	- J493-Auxiliary coolant heater relay	75x
31	- SC31 - Fuse 31 on fuse holder C	25 A	- J245 - Sliding sunroof adjustment control unit	30
32	- SC32 - Fuse 32 on fuse holder C	20 A	- J39 - Headlight washer system relay	30
33	- SC33-Fuse 33 on fuse holder C	5 A	- G24 - Tachograph	15
34	- SC34 - Fuse 34 on fuse holder C	15 A	- U19 - 12 V socket 3	30
35	- SC35 - Fuse 35 on fuse holder C	10 A	- J519 - Onboard supply control unit (reversing light models with automatic gearbox)	30
36	- SC36 - Fuse 36 on fuse holder C	5 A	- E153 - Operating and display unit for camping equipment - Special vehicles <sup>6)</sup>	15


**Note**

- ◆ <sup>1)</sup>applicable up to December 2004
- ◆ <sup>2)</sup>applicable from January 2005
- ◆ <sup>3)</sup>for models with TSP only
- ◆ <sup>4)</sup>for models with tachograph only
- ◆ <sup>5)</sup>Multivan without tachograph and second battery only
- ◆ <sup>6)</sup>for models with electric interface only (UF1)
- ◆ <sup>7)</sup>applicable from January 2006

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### 1.3.4 Fuse location from August 2006

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
1	- SC1 - Fuse 1 on fuse holder C	25 A	- U10 -Trailer socket	30
2	- SC2 - Fuse 2 on fuse holder C	5 A	- G305 - Interior monitor send and receive module 2 - J529-Anti-theft and tilt system control unit	30

3	- SC3 - Fuse 3 on fuse holder C	5 A	- V320 - Right auxiliary blower - V321 - Left auxiliary blower	75x
4	- SC4 - Fuse 4 on fuse holder C	10 A	- J492 - Four-wheel drive control unit	15
5	- SC5-Fuse 5 on fuse holder C	10 A	- T6bn-6-pin connector, grey	75x
6	- SC6 - Fuse 6 on fuse holder C	5 A	- G226 - Oil level and oil temperature sender	15
7	- SC7 - Fuse 7 on fuse holder C	10 A	- B320 - Positive connection -6- (30), in main wiring harness (roof ventilator)	30
		15 A	- U20 - 12 V socket -4-	30
8	- SC8 - Fuse 8 on fuse holder C	5 A	- J446 - Parking aid control unit	15
9	- SC9 - Fuse 9 on fuse holder C	5 A	- J453-Multifunction steering wheel control unit	30
10	- SC10 - Fuse 10 on fuse holder C	30 A	- R12 - Amplifier	30
11	- SC11 - Fuse 11 on fuse holder C	15 A	- J605 - Rear lid control unit	30
		20 A	- H12 - Alarm horn - J393 - Convenience system central control unit - J558 - Left sliding door control unit - J605 - Rear lid control unit - J731-Right sliding door control unit	30
12	- SC12 - Fuse 12 on fuse holder C	5 A	- J419-Brake light additional relay	15
		10 A	- J419-Brake light additional relay <sup>1)</sup>	15
13	- SC13 - Fuse 13 on fuse holder C	5 A	- E45-Cruise control system switch - E221 - Operating unit in steering wheel - F138 - Airbag coil connector and return spring with slip ring	15
14	- SC14 - Fuse 14 on fuse holder C	5 A	- J412 - Mobile telephone operating electronics control unit	30
15	- SC15 - Fuse 15 on fuse holder C	5 A	- J98-Gearshift indicator control unit	15
16	- SC16 - Fuse 16 on fuse holder C	5 A	- J412 - Mobile telephone operating electronics control unit - J503 - Control unit with display for radio and navigation system	15
17	- SC17 - Fuse 17 on fuse holder C	7,5 A	- J519 - Onboard power supply control unit (interior light) - B315 - Positive connection -1- (30), in main wiring harness	30
18	- SC18 - Fuse 18 on fuse holder C	5 A	- E179 - Rear fresh air blower switch	15
		5 A	- E265 - Rear Climatronic operating and display unit	30
19	- SC19 - Fuse 19 on fuse holder C	5 A	- Y7 - Automatic anti-dazzle interior mirror	15
20	- SC20 - Fuse 20 on fuse holder C	10 A	- J519-Onboard power supply control unit (heated exterior mirror)	30
21	- SC21 - Fuse 21 on fuse holder C	5 A	- J529-Anti-theft and tilt system control unit	15
22	- SC22 - Fuse 22 on fuse holder C	5 A	- G65 - High-pressure sender - G238 - Air quality sensor	15
23	- SC23 - Fuse 23 on fuse holder C	10 A	- E153 - Operating and display unit for camping equipment - E407-Auxiliary heater operating and display unit - J708 - Residual heat relay - R149-Remote control receiver for auxiliary coolant heater	30



24	- SC24 - Fuse 24 on fuse holder C	7,5 A	- B250-Positive connection in roof wiring harness (interior lighting)	30g
25	- SC25 - Fuse 25 on fuse holder C	25 A	- E94 - Heated driver seat regulator - E95 - Heated front passenger seat regulator - J774 -Heated front seats control unit	75x
26	- SC26 - Fuse 26 on fuse holder C	10 A	- G24 - Tachograph <sup>2)</sup>	30
		15 A	- U18 - 12 V socket -2- <sup>3)</sup>	30
27	- SC27 - Fuse 27 on fuse holder C	15 A	- L22 - Left fog light bulb - L23 - Right fog light bulb - S298-Special vehicle fuse 8 <sup>4)</sup>	FL
28	- SC28 - Fuse 28 on fuse holder C	5 A	- E43 - Mirror adjustment switch - J386 - Driver door control unit	15
29	- SC29 - Fuse 29 on fuse holder C	25 A	- J364 - Auxiliary heater control unit	30
30	- SC30 - Fuse 30 on fuse holder C	5 A	- E153 - Operating and display unit for camping equipment	15
		5 A	- J493-Auxiliary coolant heater relay	75x
31	- SC31 - Fuse 31 on fuse holder C	25 A	- J245 - Sliding sunroof adjustment control unit	30
		5 A	- A11 - Onboard supply charger unit <sup>5)</sup>	30
32	- SC32 - Fuse 32 on fuse holder C	20 A	- J39 - Headlight washer system relay	30
33	- SC33-Fuse 33 on fuse holder C	5 A	- G24 - Tachograph <sup>2)</sup>	15
		15 A	- G24 - Tachograph <sup>6)</sup> - J351 - Folding exterior mirror control unit <sup>6)</sup>	15
		15 A	- J351 - Folding exterior mirror control unit <sup>7)</sup>	15
34	- SC34 - Fuse 34 on fuse holder C	15 A	- U19 - 12 V socket 3	30
35	- SC35 - Fuse 35 on fuse holder C	10 A	- J519 - Onboard supply control unit (reversing light models with automatic gearbox)	30
36	- SC36 - Fuse 36 on fuse holder C	5 A	- E153 - Operating and display unit for camping equipment - Special vehicles <sup>4)</sup>	15



### Note

- ◆ <sup>1)</sup>for models with TSP only
- ◆ <sup>2)</sup>for models with tachograph only
- ◆ <sup>3)</sup>Multivan without tachograph and second battery only
- ◆ <sup>4)</sup>for models with electric interface only (UF1)
- ◆ <sup>5)</sup>for camper only, applicable from November 2006
- ◆ <sup>6)</sup>for models with tachograph and electric folding exterior mirror only
- ◆ <sup>7)</sup>for models with electric folding exterior mirror only

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## 1.3.5 Position of fuses, from November 2007

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
1	- SC1 - Fuse 1 on fuse holder C	25 A	- U10 -Trailer socket	30
2	- SC2 - Fuse 2 on fuse holder C	5 A	- G305 - Interior monitor send and receive module 2 - J529-Anti-theft and tilt system control unit	30
3	- SC3 - Fuse 3 on fuse holder C	5 A	- V320 - Right auxiliary blower <sup>1)</sup> - V321 - Left auxiliary blower <sup>1)</sup>	75x
		-	- Vacant <sup>2)</sup> , <sup>10)</sup>	-
		30 A	- J519 - Onboard power supply control unit (heated rear window) <sup>11)</sup>	30
4	- SC4 - Fuse 4 on fuse holder C	10 A	- E121 - Rear differential lock switch - J187-Differential lock control unit - J492 - Four-wheel drive control unit	15
5	- SC5-Fuse 5 on fuse holder C	10 A	- T6bn-6-pin connector, grey	75x
6	- SC6 - Fuse 6 on fuse holder C	5 A	- G226 - Oil level and oil temperature sender	15
7	- SC7 - Fuse 7 on fuse holder C	10 A	- B320 - Positive connection -6- (30), in main wiring harness (roof ventilator)	30
		15 A	- U20 - 12 V socket -4-	30
8	- SC8 - Fuse 8 on fuse holder C	5 A	- J446 - Parking aid control unit	15
9	- SC9 - Fuse 9 on fuse holder C	5 A	- J453-Multifunction steering wheel control unit	30
10	- SC10 - Fuse 10 on fuse holder C	30 A	- R12 - Amplifier	30

11	-	SC11 - Fuse 11 on fuse holder C	15 A	-	J605 - Rear lid control unit	30
			20 A	-	H12 - Alarm horn - J393 - Convenience system central control unit - J558 - Left sliding door control unit - J605 - Rear lid control unit - J731-Right sliding door control unit	30
12	-	SC12 - Fuse 12 on fuse holder C	5 A	-	J419-Brake light additional relay	15
			10 A	-	J419-Brake light additional relay <sup>3)</sup>	15
13	-	SC13 - Fuse 13 on fuse holder C	5 A	-	E45-Cruise control system switch - E221 - Operating unit in steering wheel - F138 - Airbag coil connector and return spring with slip ring	15
14	-	SC14 - Fuse 14 on fuse holder C	5 A	-	J412 - Mobile telephone operating electronics control unit	30
15	-	SC15 - Fuse 15 on fuse holder C	5 A	-	J98-Gearshift indicator control unit	15
16	-	SC16 - Fuse 16 on fuse holder C	5 A	-	J503 - Control unit with display for radio and navigation system	15
17	-	SC17 - Fuse 17 on fuse holder C	7,5 A	-	J519 - Onboard power supply control unit (interior light) - B315 - Positive connection -1- (30), in main wiring harness	30
18	-	SC18 - Fuse 18 on fuse holder C	5 A	-	E179 - Rear fresh air blower switch	15
			5 A	-	E265 - Rear Climatronic operating and display unit	30
19	-	SC19 - Fuse 19 on fuse holder C	5 A	-	Y7 - Automatic anti-dazzle interior mirror	15
20	-	SC20 - Fuse 20 on fuse holder C	10 A	-	J519-Onboard power supply control unit (heated exterior mirror)	30
21	-	SC21 - Fuse 21 on fuse holder C	5 A	-	J529-Anti-theft and tilt system control unit	15
22	-	SC22 - Fuse 22 on fuse holder C	5 A	-	G65 - High-pressure sender - G238 - Air quality sensor	15
23	-	SC23 - Fuse 23 on fuse holder C	10 A	-	E153 - Operating and display unit for camping equipment - E407-Auxiliary heater operating and display unit - J708 - Residual heat relay - R149-Remote control receiver for auxiliary coolant heater	30
24	-	SC24 - Fuse 24 on fuse holder C	7,5 A	-	B250-Positive connection in roof wiring harness (interior lighting)	30g
25	-	SC25 - Fuse 25 on fuse holder C	25 A	-	E94 - Heated driver seat regulator - E95 - Heated front passenger seat regulator - J774 -Heated front seats control unit	75x
26	-	SC26 - Fuse 26 on fuse holder C	10 A	-	G24 - Tachograph <sup>7)</sup>	30
			15 A	-	U18 - 12 V socket -2- <sup>5)</sup>	30
27	-	SC27 - Fuse 27 on fuse holder C	15 A	-	L22 - Left fog light bulb - L23 - Right fog light bulb - S298-Special vehicle fuse 8 <sup>6)</sup>	FL
28	-	SC28 - Fuse 28 on fuse holder C	5 A	-	E43 - Mirror adjustment switch - J386 - Driver door control unit	15
29	-	SC29 - Fuse 29 on fuse holder C	25 A	-	J364 - Auxiliary heater control unit	30

30	-	SC30 - Fuse 30 on fuse holder C	5 A	-	E153 - Operating and display unit for camping equipment	15
			5 A	-	J493-Auxiliary coolant heater relay	75x
31	-	SC31 - Fuse 31 on fuse holder C	25 A	-	J245 - Sliding sunroof adjustment control unit	30
			5 A	-	A11 - Onboard supply charger unit <sup>4)</sup>	30
32	-	SC32 - Fuse 32 on fuse holder C	20 A	-	J39 - Headlight washer system relay	30
33	-	SC33-Fuse 33 on fuse holder C	5 A	-	G24 - Tachograph <sup>7)</sup>	15
			15 A	-	G24 - Tachograph <sup>8)</sup> - J351 - Folding exterior mirror control unit <sup>8)</sup>	15
			15 A	-	J351 - Folding exterior mirror control unit <sup>9)</sup>	15
34	-	SC34 - Fuse 34 on fuse holder C	15 A	-	U19 - 12 V socket 3	30
35	-	SC35 - Fuse 35 on fuse holder C	10 A	-	J519 - Onboard supply control unit (reversing light models with automatic gearbox)	30
36	-	SC36 - Fuse 36 on fuse holder C	5 A	-	E153 - Operating and display unit for camping equipment	15
				-	T10bh-10-pin connector, purple <sup>6)</sup>	


**Note**

- ◆ <sup>1)</sup>applicable up to May 2008
- ◆ <sup>2)</sup>applicable from June 2008
- ◆ <sup>3)</sup>for models with TSP only
- ◆ <sup>4)</sup>for camper only
- ◆ <sup>5)</sup>Multivan without tachograph and second battery only
- ◆ <sup>6)</sup>for models with electric interface only (UF1)
- ◆ <sup>7)</sup>for models with tachograph only
- ◆ <sup>8)</sup>for models with tachograph and electric folding exterior mirror only
- ◆ <sup>9)</sup>for models with electric folding exterior mirror only
- ◆ <sup>10)</sup>applicable up to October 2008
- ◆ <sup>11)</sup>applicable from November 2008

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## 1 Pin connector assignment of selected connections

### 1.1 Overview:

#### 1 - Ignition/starter switch -D-

- ☐ On steering column
- ☐ Connector assignment ⇒ [page 2](#)

#### 2 - Onboard power supply control unit -J519-

- ☐ Below the dash panel
- ☐ Connector assignment ⇒ [page 3](#)

#### 3 - Steering column switch -T41-

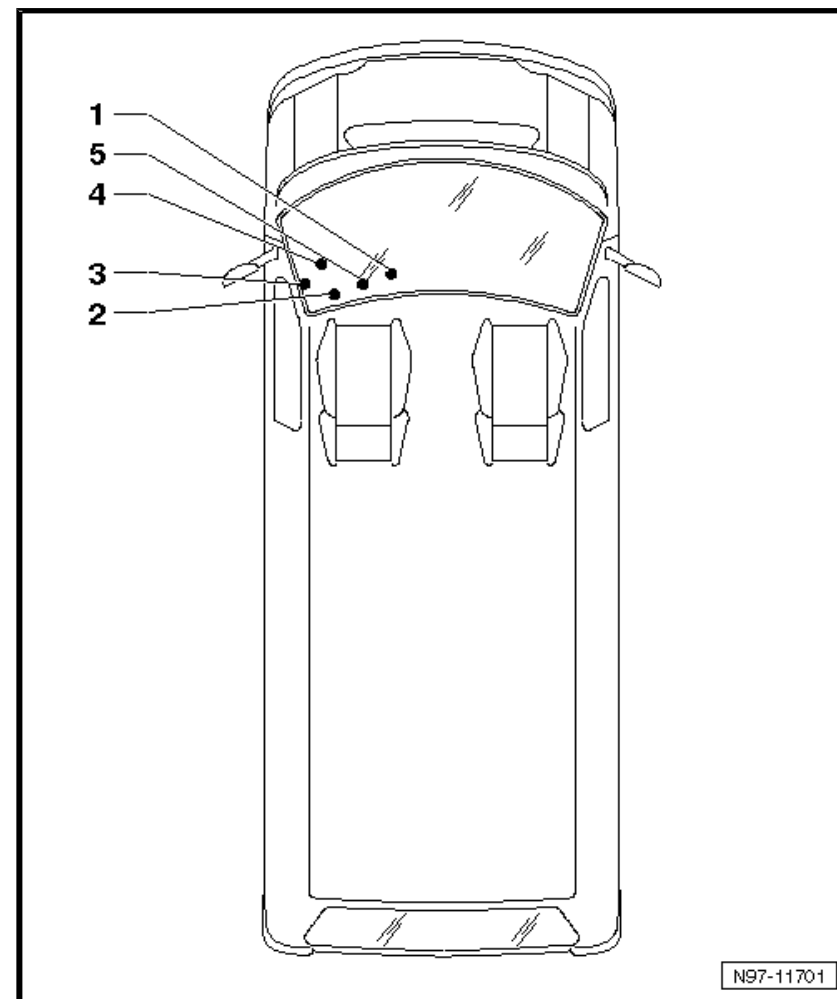
- ☐ On steering column
- ☐ Connector assignment ⇒ [page 9](#)

#### 4 - Diagnosis connection -T16-

- ☐ Left under dash panel
- ☐ Connector assignment ⇒ [page 10](#)

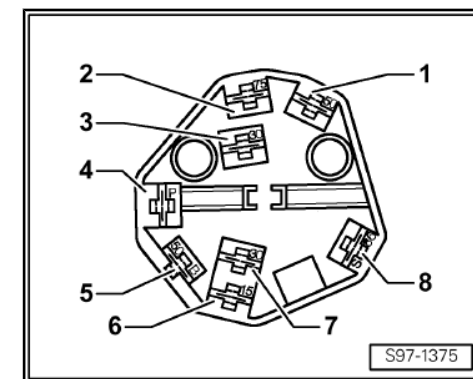
#### 5 - Control unit in dash panel insert -J285-

- ☐ Pin connector -T32- ⇒ [page 12](#)
- ☐ Pin connector -T32a- ⇒ [page 14](#)



## 1.2 Contact assignment of pin connector on ignition/starter switch -D-

- 1 - Terminal 50
- 2 - Terminal 75
- 3 - Terminal 30
- 4 - Terminal P
- 5 - terminal 50b
- 6 - Terminal 15
- 7 - Terminal 30
- 8 - terminal 86s



### 1.3 Onboard power supply control unit -J519-

#### 1.3.1 Connector assignment:

A - Pin connector, T6, black  
⇒ [page 3](#)

B - Pin connector, T6a, brown  
⇒ [page 4](#)

C - Pin connector, T6b, red  
⇒ [page 4](#)

D - Pin connector, T5, black  
⇒ [page 5](#)

E - Pin connector, T5a, brown  
⇒ [page 5](#)

F - Pin connector, T6c, black  
⇒ [page 5](#)

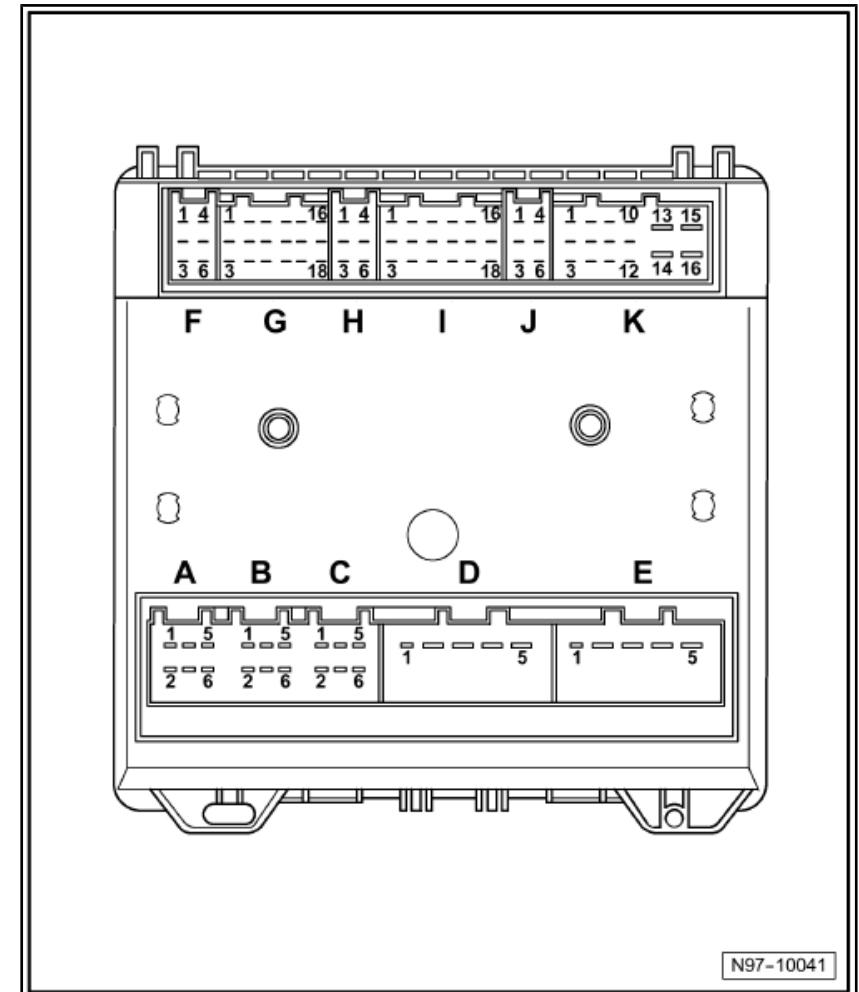
G - Pin connector, T18, black  
⇒ [page 6](#)

H - Pin connector, T6d, brown  
⇒ [page 6](#)

I - Pin connector, T18a, brown  
⇒ [page 7](#)

J - Pin connector, T6e, red  
⇒ [page 7](#)

K - Vacant



### 1.4 Contact assignment of pin connector -T6-, on onboard supply control unit (Item A)

Pin	Assignment/Component	Terminal
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1	-	636 - Earth point onboard supply control unit		31
2	-	Vacant		
3	-	B129 - Connection (interior light, 31l), in interior wiring harness		TK
4	-	B153 - Connection (RTS), in interior wiring harness (output right turn signal)		BLR
5	-	SB36 - Fuse 36 on fuse holder B (turn signal input)		30a
6	-	B152 - Connection (LTS), in interior wiring harness (output left turn signal)		BLL

### 1.5 Contact assignment of pin connector -T6a-, on onboard supply control unit (Item A)

Pin		Assignment/Component		Terminal
1	-	Z5 - Front passenger side heated exterior mirror (output)		
2	-	Z4 - Driver side heated exterior mirror (output)		
3	-	SB16 - Fuse 16 on fuse holder B (input)		15
4	-	SB20 - Fuse 20 on fuse holder C (input heated exterior mirror)		30a
5	-	SB17 - Fuse 17 on fuse holder C (interior light output) SC24 - Fuse 24 on fuse holder C (interior light output)	<sup>1)</sup> <sup>1)</sup>	30g 30g
5	-	B315 - Positive connection 1 (30a), in main wiring harness (interior light output)	<sup>2)</sup>	30g
6	-	SB7 - Fuse 7 on fuse holder C (interior light input)	<sup>1)</sup>	30a
6	-	SB17 - Fuse 17 on fuse holder C (interior light input)	<sup>2)</sup>	30a


**Note**

♦ <sup>1)</sup> for models with roof console only

♦ <sup>2)</sup> for models without roof console only

### 1.6 Contact assignment of pin connector -T6b-, on onboard supply control unit (Item C)

Pin		Assignment/Component		Terminal
1	-	Vacant		
2	-	SC35 - Fuse 35 on fuse holder C		RFL
3	-	Vacant		
4	-	Vacant		
5	-	Vacant		

6	-	B520-Connection (RL), in main wiring harness		RFL
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### 1.7 Contact assignment of pin connector -T5-, on onboard supply control unit (Item D)

Pin		Assignment/Component		Terminal
1	-	J49-Electric fuel pump 2 relay		85
2	-	V - Windscreen wiper motor, Pin 1 (speed 2)		53b
3	-	V - Windscreen wiper motor, Pin 2 (speed 1)		53
4	-	370 - Earth connection 5, in main wiring harness		31
5	-	SB32 - Fuse 32 on fuse holder (windscreen wiper motor input)		30a

### 1.8 Contact assignment of pin connector -T5a-, on onboard supply control unit (Item E)

Pin		Assignment/Component		Terminal
1	-	SB3 - Fuse 3 on fuse holder B (input)		30a
2	-	H1 - Horn or dual tone horn (output) C13 - Positive connection in dual tone horn wiring harness (output)		
3	-	SB13 - Fuse 13 on fuse holder B (horn or dual tone horn input)		30a
4	-	Z1-Heated rear window (output)		
5	-	S41-Heated rear window fuse (input)		30a

### 1.9 Contact assignment of pin connector -T6c-, on onboard supply control unit (Item F)

Pin		Assignment/Component		Terminal
1	-	Vacant		
2	-	Vacant		
3	-	B441-Connection (CCS), in main wiring harness, GND on/off		
4	-	E45-Cruise control system switch, T41 Pin 31, GND R		
5	-	E45-Cruise control system switch, T41 Pin 27, GND memory		
6	-	E45-Cruise control system switch, T41 Pin 30, GND memory		

**1.10 Contact assignment of pin connector -T18-, on onboard supply control unit (Item G)**

Pin		Assignment/Component		Terminal
1	-	B406-Connection 1 (convenience CAN bus, low), in main wiring harness		CAN-L
2	-	B397-Connection 1 (convenience CAN bus, high), in main wiring harness		CAN-H
3	-	Vacant		
4	-	E2-Turn signal switch, T41 Pin 32 (right turn signal input)		BLR
5	-	SD18 - Fuse 18 on fuse holder D (input battery voltage measurement, positive)		30A
6	-	A - Battery (input battery voltage measurement, negative)		31
7	-	F2 - Driver door contact switch (input)		
8	-	Vacant		
9	-	O4 - Positive connection (30as), in seat heating wiring harness (deactivate - output J131, J132)		
10	-	E3 - Hazard warning light switch (input)		
11	-	F11 - Rear right door contact switch (J741 Pin 7), (input)		
12	-	E2-Turn signal switch, T41 Pin 34 (left turn signal input)		BLL
13	-	F10 - Rear left door contact switch (J741 Pin 8), (input)		
14	-	E15 - Heated rear window switch (input)		
15	-	H-Horn plate, T41 Pin 10 (input)		
16	-	F266 - Bonnet contact switch (input)		
17	-	F3 - Front passenger door contact switch (input)		
18	-	E231 - Exterior mirror heater button (input)		

**1.11 Contact assignment of pin connector -T6d-, on onboard supply control unit (Item H)**

Pin		Assignment/Component		Terminal
1	-	J245 - Sliding sunroof adjustment control unit (output)		
2	-	E180 - Heated windscreen switch (input)	1)	
3	-	G213 - Rain sensor, (signal - input)		
4	-	J39 - Headlight washer system relay (output)		85
5	-	K122-Heated windscreen warning lamp	1)	
6	-	G213 - Rain sensor (GND)		31

**1.12 Contact assignment of pin connector -T18a-, on onboard supply control unit (Item I)**

Pin		Assignment/Component		Terminal
1	-	Vacant		
2	-	K10 - Heated rear window warning lamp (output)		
3	-	Vacant		
4	-	F5 - Luggage compartment light switch (input via B475)		
5	-	F111 - Rear lid contact switch (input via B534)		
6	-	SB35 - Fuse 35 on fuse holder B (input via B340)		58d
7	-	V - Windscreen wiper motor (input)		
8	-	D - Ignition/starter switch, Pin 8 (input - S-contact via SB19 and B518)		86s
9	-	E34 - Rear wiper switch, T41 Pin 20 (input - windscreen and rear window washer pump)		
10	-	F4 - Reversing light switch (input - reversing lights via B520)		RFL
11	-	E38-Intermittent wipe regulator, T41 Pin 17 (input - intermittent)		INT
12	-	D-Ignition/starter switch, Pin 8 (input)		50b
13	-	C - Alternator (input - battery charge)		61
14	-	E22-Intermittent wiper switch, T41 Pin 16 (input - windscreen wiper speed 2)		53b
15	-	D-Ignition/starter switch, Pin 2 (input - X-contact via B173)		X
16	-	K6-Hazard warning light system warning lamp		
17	-	Vacant		
18	-	E22-Intermittent wiper switch, T41 Pin 16 (input - windscreen wiper speed 1)		53

**1.13 Contact assignment of pin connector -T6e-, on onboard supply control unit (Item J)**

Pin		Assignment/Component		Terminal
1	-	A18 - Windscreen heater voltage transformer (output)	1)	
2	-	J7 - Battery isolation relay (output)		85
	-	J713 - Second battery charging circuit relay (output)		85
3	-	J207 - Starter inhibitor relay (output)		50a
4	-	J98 - Gearshift indicator control unit (output)		
5	-	G213 - Rain sensor (voltage supply - output)		15
6	-	F125 - Multifunction switch (input - release AG)		

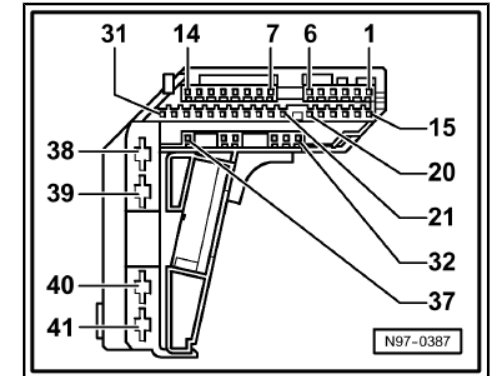


**Note**

*<sup>1)</sup> is still not delivered*

## 1.14 Contact assignment of pin connector - T41-, on steering column switch

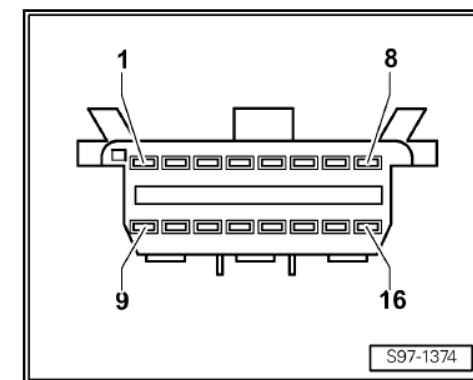
- 1 - T41/1 - Steering angle sender (vacant)
- 2 - T41/2 - Steering angle sender (CAN-low)
- 3 - T41/3 - Steering angle sender (CAN-high)
- 4 - T41/4 - Steering angle sender (terminal 31)
- 5 - T41/5 - Steering angle sender (terminal 30)
- 6 - T41/6 - Steering angle sender (terminal 15)
- 7 - T41/7 - Airbag +
- 8 - T41/8 - Airbag -
- 9 - T41/9 - Horn 31/ multifunction steering wheel -
- 10 - T41/10 - Horn 71a/ multifunction steering wheel - data wire
- 11 - T41/11 - multifunction steering wheel +
- 12 - T41/12 - vacant
- 13 - T41/13 - vacant
- 14 - T41/14 - vacant
- 15 - T41/15 - terminal 53b, wiper 2nd speed
- 16 - T41/16 - terminal 53b, wiper 1nd speed
- 17 - T41/17 - wiper potentiometer
- 18 - T41/18 - Multifunction indicator reset
- 19 - T41/19 - Terminal 31
- 20 - T41/20 - Terminal 53c
- 21 - T41/21 - Rear wiper
- 22 - T41/22 - Terminal 15
- 23 - T41/23 - Multifunction indicator -
- 24 - T41/24 - Multifunction indicator +
- 25 - T41/25 - vacant
- 26 - T41/26 - CCS - on/off
- 27 - T41/27 - CCS memory



- 28 - T41/28 - CCS terminal 15a
- 29 - T41/29 - CCS - on/off
- 30 - T41/30 - CCS SET
- 31 - T41/31 - CCS resume
- 32 - T41/32 - Right turn signal
- 33 - T41/33 - Turn signal terminal 31
- 34 - T41/34 - Left turn signal
- 35 - T41/35 - Right parking light
- 36 - T41/36 - Parking light (input)
- 37 - T41/37 - Left parking light
- 38 - T41/38 - Flasher terminal 30
- 39 - T41/39 - Main beam terminal 56a
- 40 - T41/40 - Dipped beam terminal 56b
- 41 - T41/41 - Dipped beam/ main beam terminal 56

### 1.15 Contact assignment of pin connector - T16-, on diagnosis pin connector

- 1 - T16/1 - Terminal 15
- 4 - T16/4 - Terminal 31
- 5 - T16/5 - Terminal 31
- 6 - T16/6 - CAN-H (motor, switched)
- 7 - T16/7 K-diagnosis wiring
- 14 - T16/14 - CAN-I (motor, switched)
- 16 - T16/16 - Terminal 30



1.16 Control unit in dash panel insert -J285-



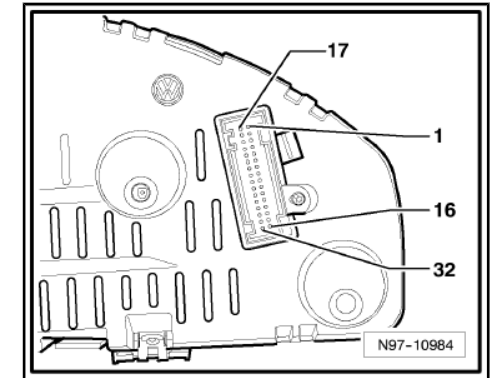
Note

*The connector assignment on the dash panel insert depends on the equipment, the country and the engine version of the vehicle.*



### 1.16.1 T32 - 32 pin connector, blue

- 1 - T32/1 - Terminal 15, positive
- 2 - T32/2 - vacant
- 3 - T32/3 - Speed signal-output
- 4 - T32/4 - vacant
- 5 - T32/5 - Fuel gauge sender
- 6 - T32/6 - Warning lamp for daytime running lights
- 7 - T32/7 - Terminal 31, sender earth
- 8 - T32/8 - vacant
- 9 - T32/9 - Terminal 31, earth
- 10 - T32/10 - Oil pressure switch
- 11 - T32/11 - vacant
- 12 - T32/12 - vacant
- 13 - T32/13 - vacant
- 14 - T32/14 - Rear fog light warning lamp
- 15 - T32/15 - vacant
- 16 - T32/16 - vacant
- 17 - T32/17 - Main beam warning lamp
- 18 - T32/18 - vacant
- 19 - T32/19 - vacant
- 20 - T32/20 - vacant
- 21 - T32/21 - vacant
- 22 - T32/22 - Coolant shortage warning lamp
- 23 - T32/23 - Terminal 30, positive
- 24 - T32/24 - Terminal 31, earth
- 25 - T32/25 - Self-diagnosis/ K-wire
- 26 - T32/26 - Right parking light - input signal
- 27 - T32/27 - Left parking light - input signal
- 28 - T32/28 - Speed signal-input



29 - T32/29 - Brake system warning lamp

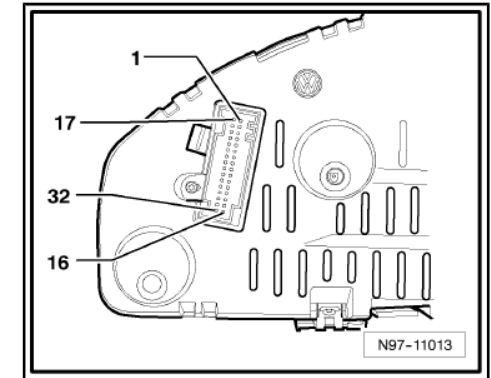
30 - T32/30 - S-contact

31 - T32/31 - Belt switch warning lamp

32 - T32/32 - vacant

### 1.16.2 T32a - 32-pin connector, green

- 1 - T32a/1 - Radio clock receiver, + 5 V
- 2 - T32a/2 - Immobilizer reader coil
- 3 - T32a/3 - Radio clock receiver, sender cable
- 4 - T32a/4 - CAN
- 5 - T3a2/5 - vacant
- 6 - T32a/6 - Washer fluid level warning lamp
- 7 - T32a/7 - Brake pad warning lamp
- 8 - T32a/8 - CAN-H (convenience)
- 9 - T32a/9 - CAN-L (convenience)
- 10 - T32a/10 - Radio clock receiver, earth
- 11 - T32a/11 - vacant
- 12 - T32a/12 - vacant
- 13 - T32a/13 - Handbrake warning-input
- 14 - T32a/14 - vacant
- 15 - T32a/15 - CAN-H (info)
- 16 - T32a/16 - CAN-L (info)
- 17 - T32a/17 - Immobilizer reader coil
- 18 - T32a/18 - Oil level and oil temperature sender
- 19 - T32a/19 - CAN-H (drive train)
- 20 - T32a/20 - CAN-L (drive train)
- 21 - T32a/21 - vacant
- 22 - T32a/22 - vacant
- 23 - T32a/23 - Multifunction indicator - up
- 24 - T32a/24 - Multifunction indicator - down
- 25 - T32a/25 - Multifunction indicator 1/2 - reset
- 26 - T32a/26 - Ambient temperature sensor
- 27 - T32a/27 - CAN-H (out)
- 28 - T32a/28 - CAN-L (out)



29 - T32a/29 - vacant

30 - T32a/30 - vacant

31 - T32a/31 - vacant

32 - T32a/32 - vacant

## 1 Interior single fuses

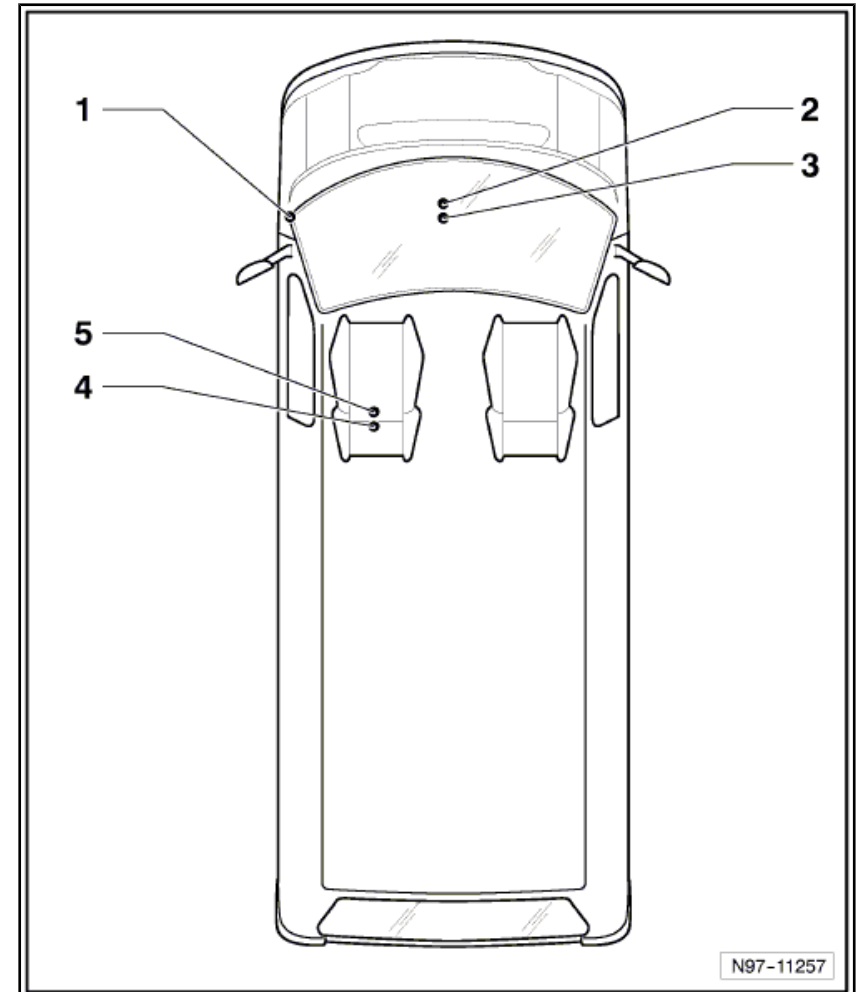
### 1.1 Overview:

- 1 - Coupling station on left of A-pillar
- 2 - Relay carrier (1) cockpit (8-pin)
- 3 - Relay carrier (2) cockpit (8-pin)
- 4 - Relay carrier on left of seat box
- 5 - Coupling station on left of seat box



#### Note

*The chamber marked as "vacant" can be fitted with a relay or a pin connector. See Fitting Locations "position of relays" and "coupling station"!*



No.	Function/component	Location	Figure on page
1	- Window regulator single fuse -S37-	- Fuse holder on relay carrier (1) cockpit (8-pin)	- from March 2003 ⇒ <a href="#">page 10</a> - from June 2004 ⇒ <a href="#">page 10</a>

2	- Heated rear window fuse -S41-	- Fuse holder on relay carrier (1) cockpit (8-pin)	- from March 2003 ⇒ <a href="#">page 10</a> - from June 2004 ⇒ <a href="#">page 10</a>
3	- Siren system fuse -S49-	- Relay carrier (2) cockpit (8-pin)	- from June 2003 ⇒ <a href="#">page 11</a> - from June 2004 ⇒ <a href="#">page 12</a>
4	- Fuse -S51-	- Fuse holder on relay carrier on left in seat box	- from March 2003 ⇒ <a href="#">page 24</a>
		- Relay carrier on left in seat box	- from June 2003 ⇒ <a href="#">page 19</a> - from June 2004 ⇒ <a href="#">page 20</a> - from August 2006 ⇒ <a href="#">page 21</a> - from June 2007 ⇒ <a href="#">page 22</a> - from November 2007 ⇒ <a href="#">page 23</a>
5	- Alarm system fuse -S57-	- Relay carrier (2) cockpit (8-pin) (Taxi)	- from January 2004 ⇒ <a href="#">page 11</a> - from June 2004 ⇒ <a href="#">page 12</a> - from August 2006 ⇒ <a href="#">page 13</a> - from June 2007 ⇒ <a href="#">page 14</a> - from November 2007 ⇒ <a href="#">page 15</a>
6	- Auxiliary heater fuse -S62-	- Fuse holder on relay carrier on left in seat box	- from March 2003 ⇒ <a href="#">page 24</a>
		- Relay carrier on left in seat box	- from June 2003 ⇒ <a href="#">page 19</a> - from June 2004 ⇒ <a href="#">page 20</a> - from August 2006 ⇒ <a href="#">page 21</a> - from June 2007 ⇒ <a href="#">page 22</a> - from November 2007 ⇒ <a href="#">page 23</a>
7	- 2nd battery fuse -S65-	- Fuse holder on relay carrier on left in seat box	- from March 2003 ⇒ <a href="#">page 24</a> - from June 2003 - from February 2004 ⇒ <a href="#">page 24</a> - from June 2004 ⇒ <a href="#">page 25</a>
8	- Terminal 30 fuse, trailer towing attachment -S77-	- Relay carrier on left in seat box	- from June 2007 ⇒ <a href="#">page 22</a> - from November 2007 ⇒ <a href="#">page 23</a>
9	- Fresh air blower fuse 1 -S97-	- Relay carrier on left in seat box	- from June 2003 ⇒ <a href="#">page 19</a> - from June 2004 ⇒ <a href="#">page 20</a> - from August 2006 ⇒ <a href="#">page 21</a> - from June 2007 ⇒ <a href="#">page 22</a>
		- Fuse holder on relay carrier on left in seat box	- from November 2007 ⇒ <a href="#">page 25</a>
10	- Fresh air blower fuse 2 -S98-	- Relay carrier (2) cockpit (8-pin)	- in November 2007 ⇒ <a href="#">page 17</a> - from November 2007 ⇒ <a href="#">page 17</a>
		- Relay carrier (1) cockpit (8-pin)	- from November 2008 ⇒ <a href="#">page 10</a>

11	- Rotating light fuse -S106- <sup>3)</sup>	- Relay carrier (2) cockpit (8-pin)	- from June 2003 <sup>3)</sup> ⇒ <a href="#">page 11</a> - from June 2004 <sup>3)</sup> ⇒ <a href="#">page 12</a> - from September 2004 <sup>3)</sup> ⇒ <a href="#">page 12</a>
		- Relay carrier (1) cockpit (8-pin)	- from August 2006 <sup>3)</sup> ⇒ <a href="#">page 8</a> - from June 2007 <sup>3)</sup> ⇒ <a href="#">page 8</a>
	- Rotating light fuse -S106- <sup>4)</sup>	- Relay carrier (2) cockpit (8-pin)	- from June 2003 <sup>4)</sup> ⇒ <a href="#">page 11</a> - from June 2004 <sup>4)</sup> ⇒ <a href="#">page 12</a> - from September 2004 <sup>4)</sup> ⇒ <a href="#">page 12</a> - from August 2006 <sup>4)</sup> ⇒ <a href="#">page 13</a> - from June 2007 <sup>4)</sup> ⇒ <a href="#">page 14</a> - from November 2007 <sup>4)</sup> ⇒ <a href="#">page 15</a>
12	- Auxiliary heater fuse -S126-	- Coupling station on left of seat box	- from March 2003 ⇒ <a href="#">page 18</a>
13	- Fuse 1 -S131-	- Fuse holder on relay carrier (2) cockpit (8-pin)	- from June 2003 ⇒ <a href="#">page 16</a> - from February 2004 ⇒ <a href="#">page 16</a> - from June 2004 ⇒ <a href="#">page 17</a> - from November 2007 ⇒ <a href="#">page 17</a>
14	- Fuse 2 -S132-	- Relay carrier on left in seat box	- from June 2004 ⇒ <a href="#">page 20</a> - from August 2006 ⇒ <a href="#">page 21</a> - from June 2007 ⇒ <a href="#">page 22</a> - from November 2007 ⇒ <a href="#">page 23</a>
15	- Siren system fuse 2 -S149-	- Relay carrier (2) cockpit (8-pin)	- from June 2003 ⇒ <a href="#">page 11</a> - from June 2004 ⇒ <a href="#">page 12</a>
16	- Battery isolation relay fuse -S171-	- Fuse holder on relay carrier on left in seat box	- from March 2003 ⇒ <a href="#">page 24</a> - from June 2004 ⇒ <a href="#">page 25</a>
17	- Taxi alarm system 2 fuse -S181-	- Relay carrier (2) cockpit (8-pin) (Taxi)	- from January 2004 ⇒ <a href="#">page 11</a> - from June 2004 ⇒ <a href="#">page 12</a>
		- Coupling station on left of A-pillar	- from January 2006 ⇒ <a href="#">page 27</a>
18	- Taxi meter fuse -S182-	- Relay carrier (2) cockpit (8-pin) (Taxi)	- from February 2004 ⇒ <a href="#">page 11</a> - from June 2004 ⇒ <a href="#">page 12</a>
		- Relay carrier (1) cockpit (8-pin) (Taxi)	- from August 2006 ⇒ <a href="#">page 8</a> - from June 2007 ⇒ <a href="#">page 8</a>
19	- Taxi meter and alarm system fuse -S183-	- Relay carrier (2) cockpit (8-pin)	- from February 2004 ⇒ <a href="#">page 11</a> - from June 2004 ⇒ <a href="#">page 12</a> - from August 2006 ⇒ <a href="#">page 13</a> - from June 2007 ⇒ <a href="#">page 14</a> - from November 2007 ⇒ <a href="#">page 15</a>
20	- Electric socket 2 fuse -S185-	- Relay carrier on left in seat box	- from June 2004 ⇒ <a href="#">page 20</a> - from August 2006 ⇒ <a href="#">page 21</a> - from June 2007 ⇒ <a href="#">page 22</a> - from November 2007 ⇒ <a href="#">page 23</a>
21	- Differential lock fuse -S187-	- Coupling station on left of A-pillar	- from February 2004 ⇒ <a href="#">page 26</a>

22	- Fuse 1 (30) -S204- <sup>1)</sup>	- Fuse holder on relay carrier (2) cockpit (8-pin)	- from June 2003 <sup>1)</sup> ⇒ <a href="#">page 16</a> - from June 2004 <sup>1)</sup> ⇒ <a href="#">page 17</a>
		- Fuse holder on relay carrier on left in seat box	- from November 2007 <sup>1)</sup> ⇒ <a href="#">page 25</a>
	- Fuse 1 (30) -S204- <sup>2)</sup>	- Fuse holder on relay carrier on left in seat box	- from March 2003 <sup>2)</sup> ⇒ <a href="#">page 24</a>
		- Coupling station on left of seat box	- from June 2003 <sup>2)</sup> ⇒ <a href="#">page 18</a>
23	Fuse 2 (30) -S205- <sup>1)</sup>	- Fuse holder on relay carrier (2) cockpit (8-pin)	- from June 2003 <sup>1)</sup> ⇒ <a href="#">page 16</a> - from February 2004 <sup>1)</sup> ⇒ <a href="#">page 16</a> - from June 2004 <sup>1)</sup> ⇒ <a href="#">page 17</a>
		- Fuse holder on relay carrier on left in seat box	- from November 2007 <sup>1)</sup> ⇒ <a href="#">page 25</a>
	Fuse 2 (30) -S205- <sup>2)</sup>	- Fuse holder on relay carrier on left in seat box	- from March 2003 <sup>2)</sup> ⇒ <a href="#">page 24</a> - from June 2003 <sup>2)</sup> ⇒ <a href="#">page 24</a> - from June 2004 <sup>2)</sup> ⇒ <a href="#">page 25</a>
24	- Electric socket 3 fuse -S281-	- Relay carrier on left in seat box	- from June 2004 ⇒ <a href="#">page 20</a> - from August 2006 ⇒ <a href="#">page 21</a> - from June 2007 ⇒ <a href="#">page 22</a> - from November 2007 ⇒ <a href="#">page 23</a>
25	- Special vehicle fuse 1 -S291-	- Relay carrier on left in seat box (special vehicle)	- from January 2004 ⇒ <a href="#">page 19</a> - from June 2004 ⇒ <a href="#">page 20</a> - from August 2006 ⇒ <a href="#">page 21</a> - from June 2007 ⇒ <a href="#">page 22</a> - from November 2007 ⇒ <a href="#">page 23</a>
26	- Special vehicle fuse 2 -S292-	- Relay carrier on left in seat box (special vehicle)	- in February 2004 ⇒ <a href="#">page 19</a> - from June 2004 ⇒ <a href="#">page 20</a> - from August 2006 ⇒ <a href="#">page 21</a> - from June 2007 ⇒ <a href="#">page 22</a> - from November 2007 ⇒ <a href="#">page 23</a>
27	- Special vehicle fuse 3 -S293-	- Relay carrier on left in seat box (special vehicle)	- from January 2004 ⇒ <a href="#">page 19</a> - from June 2004 ⇒ <a href="#">page 20</a> - from August 2006 ⇒ <a href="#">page 21</a> - from June 2007 ⇒ <a href="#">page 22</a> - from November 2007 ⇒ <a href="#">page 23</a>
28	- Special vehicle fuse 4 -S294-	- Relay carrier on left in seat box (special vehicle)	- from January 2004 ⇒ <a href="#">page 19</a> - from June 2004 ⇒ <a href="#">page 20</a> - from August 2006 ⇒ <a href="#">page 21</a> - from June 2007 ⇒ <a href="#">page 22</a> - from November 2007 ⇒ <a href="#">page 23</a>
29	- Special vehicle fuse 5 -S295-	- Relay carrier on left in seat box (special vehicle)	- from January 2004 ⇒ <a href="#">page 19</a> - from June 2004 ⇒ <a href="#">page 20</a> - from August 2006 ⇒ <a href="#">page 21</a> - from June 2007 ⇒ <a href="#">page 22</a> - from November 2007 ⇒ <a href="#">page 23</a>



30	- Special vehicle fuse 6 -S296-	- Relay carrier on left in seat box (special vehicle)	- from January 2004 ⇒ <a href="#">page 19</a> - from June 2004 ⇒ <a href="#">page 20</a> - from August 2006 ⇒ <a href="#">page 21</a> - from June 2007 ⇒ <a href="#">page 22</a> - from November 2007 ⇒ <a href="#">page 23</a>
31	- Special vehicle fuse 7 -S297-	- Relay carrier on left in seat box (special vehicle)	- from January 2004 ⇒ <a href="#">page 19</a> - from June 2004 ⇒ <a href="#">page 20</a> - from August 2006 ⇒ <a href="#">page 21</a> - from June 2007 ⇒ <a href="#">page 22</a> - from November 2007 ⇒ <a href="#">page 23</a>
32	- Special vehicle fuse 8 -S298-	- Relay carrier on left in seat box (special vehicle)	- from January 2004 ⇒ <a href="#">page 19</a> - from June 2004 ⇒ <a href="#">page 20</a> - from August 2006 ⇒ <a href="#">page 21</a> - from June 2007 ⇒ <a href="#">page 22</a> - from November 2007 ⇒ <a href="#">page 23</a>
33	- Special vehicle fuse 9 -S299-	- Relay carrier on left in seat box (special vehicle)	- from March 2004 ⇒ <a href="#">page 19</a> - from June 2004 ⇒ <a href="#">page 20</a> - from August 2006 ⇒ <a href="#">page 21</a> - from June 2007 ⇒ <a href="#">page 22</a> - from November 2007 ⇒ <a href="#">page 23</a>
34	- Special vehicle fuse 10 -S300-	- Relay carrier (2) cockpit (8-pin) (special vehicle)	- from January 2004 ⇒ <a href="#">page 11</a> - from June 2004 ⇒ <a href="#">page 12</a> - from August 2006 ⇒ <a href="#">page 13</a> - from June 2007 ⇒ <a href="#">page 14</a> - from November 2007 ⇒ <a href="#">page 15</a>
35	- Special vehicle fuse 11 -S301-	- Relay carrier (2) cockpit (8-pin) (special vehicle)	- from January 2004 ⇒ <a href="#">page 11</a> - from June 2004 ⇒ <a href="#">page 12</a> - from August 2006 ⇒ <a href="#">page 13</a> - from June 2007 ⇒ <a href="#">page 14</a> - from November 2007 ⇒ <a href="#">page 15</a>
36	- Special vehicle fuse 12 -S302-	- Relay carrier (2) cockpit (8-pin) (special vehicle)	- from January 2004 ⇒ <a href="#">page 11</a> - from June 2004 ⇒ <a href="#">page 12</a> - from August 2006 ⇒ <a href="#">page 13</a> - from June 2007 ⇒ <a href="#">page 14</a> - from November 2007 ⇒ <a href="#">page 15</a>
37	- Special vehicle fuse 13 -S303-	- Fuse holder on relay carrier (1) cockpit (8-pin)	- from January 2004 ⇒ <a href="#">page 10</a> - from June 2004 ⇒ <a href="#">page 10</a>
		- Coupling station on left of A-pillar	- from January 2006 ⇒ <a href="#">page 27</a>
38	- Special vehicle fuse 14 -S304-	- Relay carrier (1) cockpit (8-pin)	- from March 2004 ⇒ <a href="#">page 7</a> - from June 2004 ⇒ <a href="#">page 7</a>
		- Relay carrier (2) cockpit (8-pin)	- from January 2006 ⇒ <a href="#">page 12</a>
		- Relay carrier (1) cockpit (8-pin)	- from August 2006 ⇒ <a href="#">page 8</a> - from June 2007 ⇒ <a href="#">page 8</a>

39	- Special vehicle fuse 15 -S305-	- Relay carrier (1) cockpit (8-pin)	- from March 2004 ⇒ <a href="#">page 7</a> - from June 2004 ⇒ <a href="#">page 7</a>
		- Relay carrier (2) cockpit (8-pin)	- from January 2006 ⇒ <a href="#">page 12</a>
		- Relay carrier (1) cockpit (8-pin)	- from August 2006 ⇒ <a href="#">page 8</a> - from June 2007 ⇒ <a href="#">page 8</a>
40	- Cool box fuse -S340-	- Relay carrier on left in seat box	- from June 2004 ⇒ <a href="#">page 20</a> - from August 2006 ⇒ <a href="#">page 21</a> - from June 2007 ⇒ <a href="#">page 22</a> - from November 2007 ⇒ <a href="#">page 23</a>



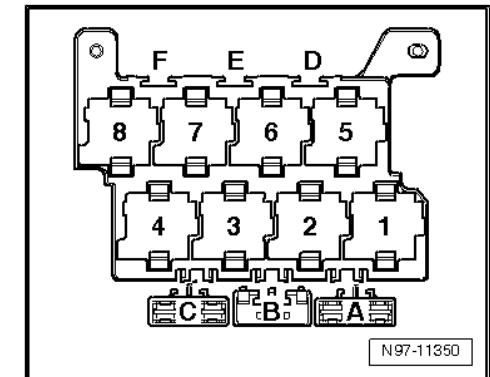
**Note**

- ◆ <sup>1)</sup> for models without second battery only
- ◆ <sup>2)</sup> for models with second battery only
- ◆ <sup>3)</sup> for models with rotating lights only
- ◆ <sup>4)</sup> for models with Red Cross light

## 1.2 Relay carrier (1) cockpit (8-pin)

### 1.2.1 Location:

- ◆ Under dash panel, centre (under the fuse holder B -SB- and fuse holder C -SC- )
- Back to overview ⇒ [page 1](#)



### 1.2.2 Position of fuses, from March 2003

Item	Connector/designation	Nominal value
1	- Vacant	-
2	- Vacant	-
3	- Vacant	-
4	- Vacant	-
5	- Vacant	-
6	- Vacant	-
7	- Vacant	-
8	- Special vehicle fuse 14 -S304- <sup>1)</sup>	15 A
	- Special vehicle fuse 15 -S305- <sup>1)</sup>	15 A


**Note**

<sup>1)</sup> applicable from March 2004

– Back to overview ⇒ [page 1](#)

### 1.2.3 Position of fuses, from June 2004

Item	Connector/designation	Nominal value
1	- Vacant	-
2	- Vacant	-
3	- Vacant	-
4	- Vacant	-
5	- Vacant	-
6	- Vacant	-
7	- Vacant	-
8	- Special vehicle fuse 14 -S304- <sup>1)</sup>	15 A
	- Special vehicle fuse 15 -S305- <sup>1)</sup>	15 A


**Note**

*<sup>1)</sup> applicable up to December 2005*

– Back to overview ⇒ [page 1](#)

### 1.2.4 Fuse location from August 2006

Item	Connector/designation	Nominal value
1	- Vacant	-
2	- Vacant	-
3	- Vacant	-
4	- Vacant	-
5	- Vacant	-
6	- Vacant	-
7	- Vacant	-
8	- Rotating light fuse -S106- <sup>1)</sup>	10 A
	- Taxi meter fuse -S182-	10 A
	- Special vehicle fuse 14 -S304-	15 A
	- Special vehicle fuse 15 -S305-	15 A


**Note**

*<sup>1)</sup> for models with rotating light only*

– Back to overview ⇒ [page 1](#)

### 1.2.5 Position of fuses, from June 2007

Item	Connector/designation	Nominal value
1	- Vacant	-
2	- Vacant	-

Item	Connector/designation	Nominal value
3	- Vacant	-
4	- Vacant	-
5	- Vacant	-
6	- Rotating light fuse -S106- <sup>1)</sup>	10 A
	- Taxi meter fuse -S182-	10 A
	- Special vehicle fuse 14 -S304-	15 A
	- Special vehicle fuse 15 -S305-	15 A
7	- Vacant	-
8	- Vacant	-



**Note**

<sup>1)</sup> for models with rotating light only

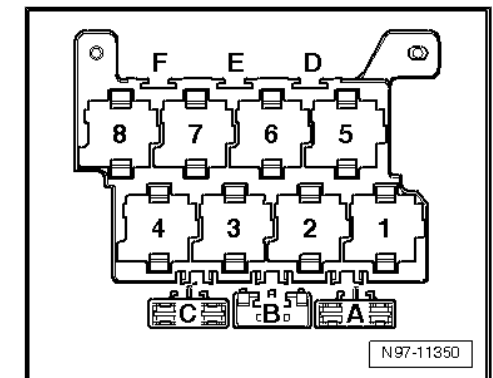
– Back to overview ⇒ [page 1](#)

## 1.3 Fuse holder on relay carrier (1) cockpit (8-pin)

### 1.3.1 Location:

◆ Under dash panel, centre (under the fuse holder B -SB- and fuse holder C -SC- )

– Back to overview ⇒ [page 1](#)



### 1.3.2 Position of fuses, from March 2003

Item	Connector/designation	Nominal value
A	- Heated rear window fuse -S41-	40 A
B	- Window regulator single fuse -S37-	30 A
C	- Special vehicle fuse 13 -S303- <sup>1)</sup>	40 A


**Note**

<sup>1)</sup> applicable from January 2004

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### 1.3.3 Position of fuses, from June 2004

Item	Connector/designation	Nominal value
A	- Heated rear window fuse -S41- <sup>2)</sup>	40 A
	- Fresh air blower fuse 2 -S98- <sup>3)</sup>	40 A
B	- Window regulator single fuse -S37-	30 A
C	- Special vehicle fuse 13 -S303- <sup>1)</sup>	40 A


**Note**

♦ <sup>1)</sup> applicable up to December 2005

♦ <sup>2)</sup> applicable up to October 2008

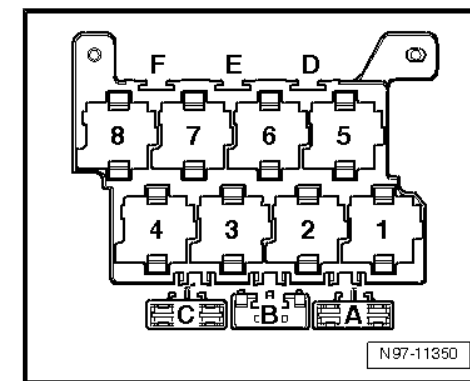
♦ <sup>3)</sup> applicable from November 2008

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## 1.4 Relay carrier (2) cockpit (8-pin)

### 1.4.1 Location:

- ◆ Under dash panel, centre (under the fuse holder B -SB- and fuse holder C -SC- )
- Back to overview ⇒ [page 1](#)



### 1.4.2 Position of fuses, from March 2003

Item	Connector/designation	Nominal value
1	- Alarm system fuse -S57- <sup>2)</sup>	30 A
	- Taxi meter and alarm system fuse -S183- <sup>3)</sup>	15 A
	- Special vehicle fuse 10 -S300- <sup>2)</sup>	15 A
	- Special vehicle fuse 11 -S301- <sup>2)</sup>	-
	- Special vehicle fuse 12 -S302- <sup>2)</sup>	-
2	- Siren system fuse -S49- <sup>1)</sup>	15 A
	- Rotating light fuse -S106- <sup>1)</sup>	10 A
	- Siren system fuse 2 -S149- <sup>1)</sup>	10 A
	- Taxi alarm system 2 fuse -S181- <sup>2)</sup>	15 A
	- Taxi meter fuse -S182- <sup>3)</sup>	10 A
3	- Vacant	-
4	- Vacant	-
5	- Vacant	-
6	- Vacant	-
7	- Vacant	-
8	- Vacant	-


**Note**

- ♦ <sup>1)</sup> applicable from June 2003
- ♦ <sup>2)</sup> applicable from January 2004
- ♦ <sup>3)</sup> applicable from February 2004

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### 1.4.3 Position of fuses, from June 2004

Item	Connector/designation	Nominal value
1	- Alarm system fuse -S57-	30 A
	- Rotating light fuse -S106- <sup>2)</sup> , <sup>4)</sup>	10 A
	- Taxi meter and alarm system fuse -S183-	15 A
	- Special vehicle fuse 10 -S300-	15 A
	- Special vehicle fuse 11 -S301-	-
	- Special vehicle fuse 12 -S302-	-
2	- Siren system fuse -S49- <sup>1)</sup>	15 A
	- Rotating light fuse -S106- <sup>4)</sup> , <sup>5)</sup>	10 A
	- Rotating light fuse -S106- <sup>2)</sup> , <sup>5)</sup>	10 A
	- Siren system fuse 2 -S149- <sup>1)</sup>	10 A
	- Taxi alarm system 2 fuse -S181- <sup>1)</sup>	15 A
	- Taxi meter fuse -S182-	10 A
	- Special vehicle fuse 14 -S304- <sup>3)</sup>	15 A
	- Special vehicle fuse 15 -S305- <sup>3)</sup>	15 A
3	- Vacant	-
4	- Vacant	-
5	- Vacant	-
6	- Vacant	-
7	- Vacant	-
8	- Vacant	-




**Note**

- ♦ <sup>1)</sup> applicable up to December 2005
- ♦ <sup>2)</sup> applicable from September 2004
- ♦ <sup>3)</sup> applicable from January 2006
- ♦ <sup>4)</sup> for models with Red Cross light
- ♦ <sup>5)</sup> for models with rotating light only

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#### 1.4.4 Fuse location from August 2006

Item	Connector/designation	Nominal value
1	- Vacant	-
2	- Vacant	-
3	- Alarm system fuse -S57-	30 A
	- Rotating light fuse -S106- <sup>1)</sup>	10 A
	- Taxi meter and alarm system fuse -S183-	15 A
	- Special vehicle fuse 10 -S300-	15 A
	- Special vehicle fuse 11 -S301-	-
	- Special vehicle fuse 12 -S302-	-
4	- Vacant	-
5	- Vacant	-
6	- Vacant	-
7	- Vacant	-
8	- Vacant	-


**Note**

- <sup>1)</sup> for models with Red Cross light

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### 1.4.5 Position of fuses, from June 2007

Item	Connector/designation	Nominal value
1	- Alarm system fuse -S57-	30 A
	- Rotating light fuse -S106- <sup>1)</sup>	10 A
	- Taxi meter and alarm system fuse -S183-	15 A
	- Special vehicle fuse 10 -S300-	15 A
	- Special vehicle fuse 11 -S301-	-
	- Special vehicle fuse 12 -S302-	-
2	- Vacant	-
3	- Vacant	-
4	- Vacant	-
5	- Vacant	-
6	- Vacant	-
7	- Vacant	-
8	- Vacant	-



#### Note

<sup>1)</sup> for models with Red Cross light

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**1.4.6 Position of fuses, from November 2007**

Item	Connector/designation	Nominal value
1	- Alarm system fuse -S57-	30 A
	- Rotating light fuse -S106- <sup>1)</sup>	10 A
	- Taxi meter and alarm system fuse -S183-	15 A
	- Special vehicle fuse 10 -S300-	15 A
	- Special vehicle fuse 11 -S301-	-
	- Special vehicle fuse 12 -S302-	-
2	- Vacant	-
3	- Vacant	-
4	- Vacant	-
5	- Vacant	-
6	- Vacant	-
7	- Vacant	-
8	- Vacant	-


**Note**

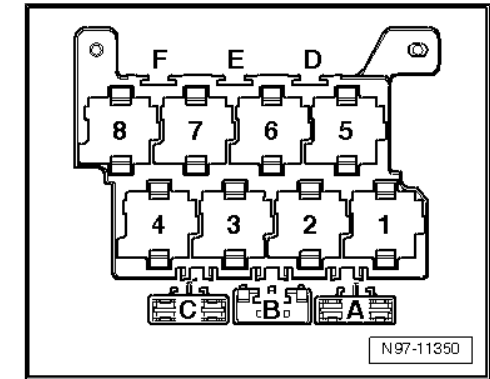
<sup>1)</sup> for models with Red Cross light

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## 1.5 Fuse holder on relay carrier (2) cockpit (8-pin)

### 1.5.1 Location:

- ◆ Under dash panel, centre (under the fuse holder B -SB- and fuse holder C -SC- )
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### 1.5.2 Position of fuses, from March 2003

Item	Connector/designation	Nominal value
A	- Fuse 1 -S131- <sup>1)</sup>	5 A
	- Fuse 2 (30) -S205- <sup>2)</sup> , <sup>3)</sup>	40 A
B	- Fuse 1 -S131- <sup>2)</sup>	5 A
	- Fuse 2 (30) -S205- <sup>1)</sup> , <sup>3)</sup>	40 A
C	- Fuse 1 (30) -S204- <sup>1)</sup> , <sup>3)</sup>	40 A



#### Note

- ◆ <sup>1)</sup> applicable from June 2003
- ◆ <sup>2)</sup> applicable from February 2004
- ◆ <sup>3)</sup> for models without second battery only
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### 1.5.3 Position of fuses, from June 2004

Item	Connector/designation	Nominal value
A	- Fuse 2 (30) -S205- <sup>1)</sup>	40 A
B	- Fuse 1 -S131-	5 A
C	- Fuse 1 (30) -S204- <sup>1)</sup>	40 A


**Note**

<sup>1)</sup> for models without second battery only

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### 1.5.4 Position of fuses, from November 2007

Item	Connector/designation	Nominal value
A	- Fresh air blower fuse 2 -S98- <sup>1)</sup>	40 A
	- Vacant <sup>2)</sup>	-
B	- Fuse 1 -S131-	5 A
C	- Vacant <sup>1)</sup>	-
	- Fresh air blower fuse 2 -S98- <sup>2)</sup> , <sup>3)</sup>	40 A


**Note**

♦ <sup>1)</sup> applicable in November 2007

♦ <sup>2)</sup> applicable from November 2007

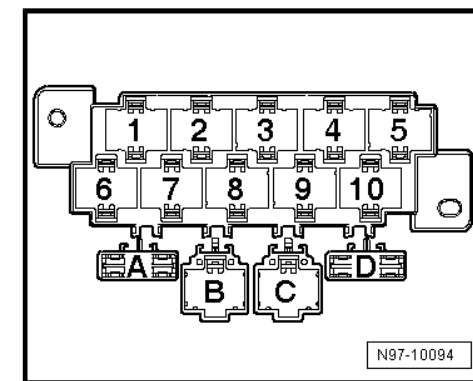
♦ <sup>3)</sup> applicable up to October 2008

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## 1.6 Coupling station on left of seat box (10-pin)

### 1.6.1 Location:

- ◆ On left in seat box
- Back to overview [⇒ page 1](#)



### 1.6.2 Position of fuses, from March 2003

Item	Connector/designation	Nominal value
A	- Fuse 1 (30) -S204- <sup>1)</sup>	40 A
B	- Vacant	-
C	- Vacant	-
D	- Auxiliary heater fuse -S126-	40 A



#### Note

<sup>1)</sup> applicable from June 2003, for models with second battery only

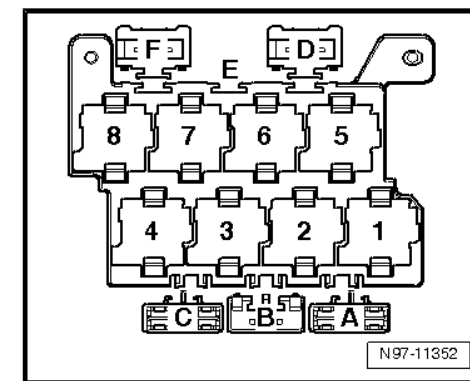
- Back to overview [⇒ page 1](#)

## 1.7 Relay carrier, left seat box (8-pin)

### 1.7.1 Location:

◆ On left in seat box

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### 1.7.2 Position of fuses, from March 2003

Item	Connector/designation	Nominal value
1	- Special vehicle fuse 7 -S297- <sup>2)</sup>	15 A
	- Special vehicle fuse 8 -S298- <sup>2)</sup>	10 A
	- Special vehicle fuse 9 -S299- <sup>3)</sup>	25 A
2	- Fuse -S51- <sup>1)</sup>	5 A
	- Auxiliary heater fuse -S62- <sup>1)</sup>	25 A
	- Fresh air blower fuse 1 -S97- <sup>1)</sup>	30 A
3	- Special vehicle fuse 4 -S294- <sup>2)</sup>	15 A
	- Special vehicle fuse 5 -S295- <sup>2)</sup>	3 A
	- Special vehicle fuse 6 -S296- <sup>2)</sup>	15 A
4	- Vacant	-
5	- Special vehicle fuse 1 -S291- <sup>2)</sup>	3 A
	- Special vehicle fuse 2 -S292- <sup>4)</sup>	5 A
	- Special vehicle fuse 3 -S293- <sup>2)</sup>	15 A
6	- Vacant	-
7	- Vacant	-
8	- Vacant	-


**Note**

- ◆ <sup>1)</sup> applicable from June 2003
- ◆ <sup>2)</sup> applicable from January 2004
- ◆ <sup>3)</sup> applicable from March 2004
- ◆ <sup>4)</sup> applicable in February 2004

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### 1.7.3 Position of fuses, from June 2004

Item	Connector/designation	Nominal value
1	- Special vehicle fuse 7 -S297-	15 A
	- Special vehicle fuse 8 -S298-	10 A
	- Special vehicle fuse 9 -S299-	25 A
2	- Fuse -S51-	5 A
	- Auxiliary heater fuse -S62-	25 A
	- Fresh air blower fuse 1 -S97-	30 A
3	- Special vehicle fuse 4 -S294-	15 A
	- Special vehicle fuse 5 -S295-	3 A
	- Special vehicle fuse 6 -S296-	15 A
4	- Cool box fuse -S340- <sup>2)</sup>	15 A
5	- Special vehicle fuse 1 -S291-	3 A
	- Special vehicle fuse 2 -S292- <sup>1)</sup>	-
	- Special vehicle fuse 3 -S293-	15 A
6	- Vacant	-
7	- Electric socket 2 fuse -S185- <sup>3)</sup> , <sup>4)</sup>	15 A
	- Electric socket 3 fuse -S281- <sup>3)</sup> , <sup>4)</sup>	15 A
	- Fuse 2 -S132- <sup>3)</sup> , <sup>4)</sup>	15 A
8	- Vacant	-





### Note

- ♦ <sup>1)</sup> Vacant
- ♦ <sup>2)</sup> not for camper
- ♦ <sup>3)</sup> for models with/without second battery only, applicable up to December 2004
- ♦ <sup>4)</sup> for models with second battery only, applicable from January 2005

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## 1.7.4 Fuse location from August 2006

Item	Connector/designation	Nominal value
1	- Special vehicle fuse 7 -S297-	15 A
	- Special vehicle fuse 8 -S298-	10 A
	- Special vehicle fuse 9 -S299-	25 A
2	- Fuse -S51-	5 A
	- Auxiliary heater fuse -S62-	25 A
	- Fresh air blower fuse 1 -S97-	30 A
3	- Special vehicle fuse 4 -S294-	15 A
	- Special vehicle fuse 5 -S295-	3 A
	- Special vehicle fuse 6 -S296-	15 A
4	- Cool box fuse -S340- <sup>2)</sup>	15 A
5	- Special vehicle fuse 1 -S291-	3 A
	- Special vehicle fuse 2 -S292- <sup>1)</sup>	-
	- Special vehicle fuse 3 -S293-	15 A
6	- Vacant	-
7	- Electric socket 2 fuse -S185- <sup>3)</sup>	15 A
	- Electric socket 3 fuse -S281- <sup>3)</sup>	15 A
	- Fuse 2 -S132- <sup>3)</sup>	15 A
8	- Vacant	-


**Note**

- ♦ <sup>1)</sup> Vacant
- ♦ <sup>2)</sup> not for camper
- ♦ <sup>3)</sup> for models with second battery only

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### 1.7.5 Position of fuses, from June 2007

Item	Connector/designation	Nominal value
1	- Special vehicle fuse 7 -S297-	15 A
	- Special vehicle fuse 8 -S298-	10 A
	- Special vehicle fuse 9 -S299-	25 A
2	- Fuse -S51-	5 A
	- Auxiliary heater fuse -S62-	25 A
	- Fresh air blower fuse 1 -S97-	30 A
3	- Special vehicle fuse 4 -S294-	15 A
	- Special vehicle fuse 5 -S295-	3 A
	- Special vehicle fuse 6 -S296-	15 A
4	- Cool box fuse -S340- <sup>2)</sup>	15 A
5	- Terminal 30 fuse, trailer towing attachment -S77-	25 A
	- Special vehicle fuse 1 -S291-	3 A
	- Special vehicle fuse 2 -S292- <sup>1)</sup>	-
	- Special vehicle fuse 3 -S293-	15 A
6	- Vacant	-
7	- Electric socket 2 fuse -S185- <sup>3)</sup>	15 A
	- Electric socket 3 fuse -S281- <sup>3)</sup>	15 A
	- Fuse 2 -S132- <sup>3)</sup>	15 A
8	- Vacant	-



### Note

- ♦ <sup>1)</sup> Vacant
- ♦ <sup>2)</sup> not for camper
- ♦ <sup>3)</sup> for models with second battery only

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## 1.7.6 Position of fuses, from November 2007

Item	Connector/designation	Nominal value
1	- Special vehicle fuse 7 -S297-	15 A
	- Special vehicle fuse 8 -S298-	10 A
	- Special vehicle fuse 9 -S299-	25 A
2	- Fuse -S51-	5 A
	- Auxiliary heater fuse -S62-	25 A
3	- Special vehicle fuse 4 -S294-	15 A
	- Special vehicle fuse 5 -S295-	3 A
	- Special vehicle fuse 6 -S296-	15 A
4	- Cool box fuse -S340- <sup>2)</sup>	15 A
5	- Terminal 30 fuse, trailer towing attachment -S77-	25 A
	- Special vehicle fuse 1 -S291-	3 A
	- Special vehicle fuse 2 -S292- <sup>1)</sup>	-
	- Special vehicle fuse 3 -S293-	15 A
6	- Vacant	-
7	- Electric socket 2 fuse -S185- <sup>3)</sup>	15 A
	- Electric socket 3 fuse -S281- <sup>3)</sup>	15 A
	- Fuse 2 -S132- <sup>3)</sup>	15 A
8	- Vacant	-



**Note**

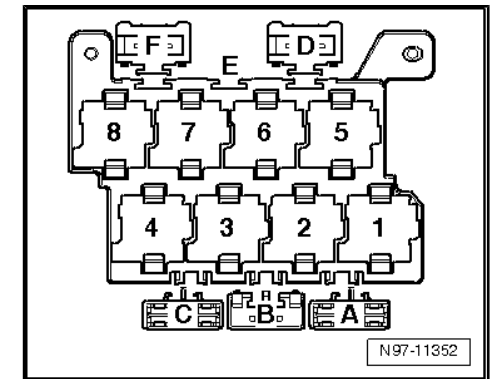
- ◆ <sup>1)</sup> Vacant
- ◆ <sup>2)</sup> not for camper
- ◆ <sup>3)</sup> for models with second battery only

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## 1.8 Fuse holder on relay carrier on left in seat box (8-pin)

### 1.8.1 Location:

- ◆ On left in seat box
- Back to overview [⇒ page 1](#)



### 1.8.2 Position of fuses, from March 2003

Item	Connector/designation	Nominal value
A	- Fuse 1 (30) -S204- <sup>1)</sup> , <sup>3)</sup>	40
B	- Auxiliary heater fuse -S62- <sup>1)</sup>	25 A
C	- Fuse 2 (30) -S205- <sup>1)</sup> , <sup>3)</sup>	40 A
D	- 2nd battery fuse -S65- <sup>1)</sup> , <sup>4)</sup>	100 A
	- 2nd battery fuse -S65- <sup>5)</sup> , <sup>4)</sup>	80 A
	- Battery isolation relay fuse -S171- <sup>3)</sup> , <sup>4)</sup>	80 A
E	- Vacant	-

Item	Connector/designation	Nominal value
F	- Fuse -S51- <sup>1)</sup> , <sup>4)</sup>	5 A
	- Fuse 2 (30) -S205- <sup>2)</sup> , <sup>3)</sup> , <sup>4)</sup>	40 A


**Note**

- ◆ <sup>1)</sup> applicable up to May 2003
- ◆ <sup>2)</sup> applicable from June 2003
- ◆ <sup>3)</sup> only with second battery
- ◆ <sup>4)</sup> Fuse holder not on relay carrier
- ◆ <sup>5)</sup> applicable from February 2004

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### 1.8.3 Position of fuses, from June 2004

Item	Connector/designation	Nominal value
A	- Vacant	-
B	- Vacant	-
C	- Fresh air blower fuse 1 -S97- <sup>3)</sup> , <sup>6)</sup>	40 A
D	- 2nd battery fuse -S65- <sup>1)</sup> , <sup>6)</sup>	80 A
	- Battery isolation relay fuse -S171- <sup>2)</sup> , <sup>6)</sup>	80 A
	- Fuse 1 (30) -S204- <sup>4)</sup> , <sup>6)</sup>	40 A
E	- Vacant	-
F	- Fuse 2 (30) -S205- <sup>2)</sup> , <sup>6)</sup>	40 A
	- Fuse 2 (30) -S205- <sup>5)</sup> , <sup>6)</sup>	40 A



**Note**

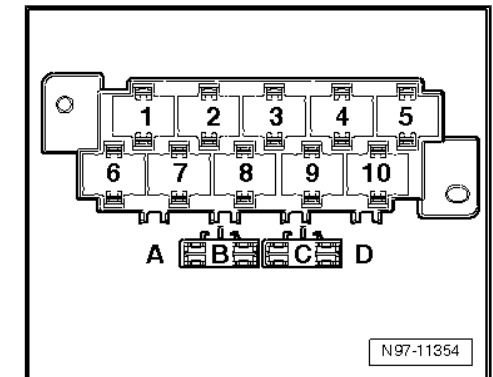
- ◆ <sup>1)</sup> camper only
- ◆ <sup>2)</sup> for models with second battery only
- ◆ <sup>3)</sup> applicable from November 2007
- ◆ <sup>4)</sup> applicable from November 2007, for models without second battery only
- ◆ <sup>5)</sup> applicable from November 2007, for models with/without second battery only
- ◆ <sup>6)</sup> Fuse holder not on relay carrier

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## 1.9 Coupling station on left of A-pillar (10-pin)

### 1.9.1 Location:

- ◆ On left A-pillar
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### 1.9.2 Position of fuses, from March 2003

Item	Connector/designation	Nominal value
A	- Vacant	-
B	- Differential lock fuse -S187- <sup>1)</sup>	10 A
C	- Vacant	15 A
D	- Vacant	-



**Note**

*<sup>1)</sup> applicable from February 2004 up to May 2004*

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### 1.9.3 Position of fuses, from June 2004

Item	Connector/designation	Nominal value
A	- Vacant	-
B	- Special vehicle fuse 13 -S303- <sup>1)</sup>	40 A
C	- Taxi alarm system 2 fuse -S181- <sup>1)</sup>	15 A
D	- Vacant	-



**Note**

*<sup>1)</sup> applicable from January 2006*

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## 1 Relay positions

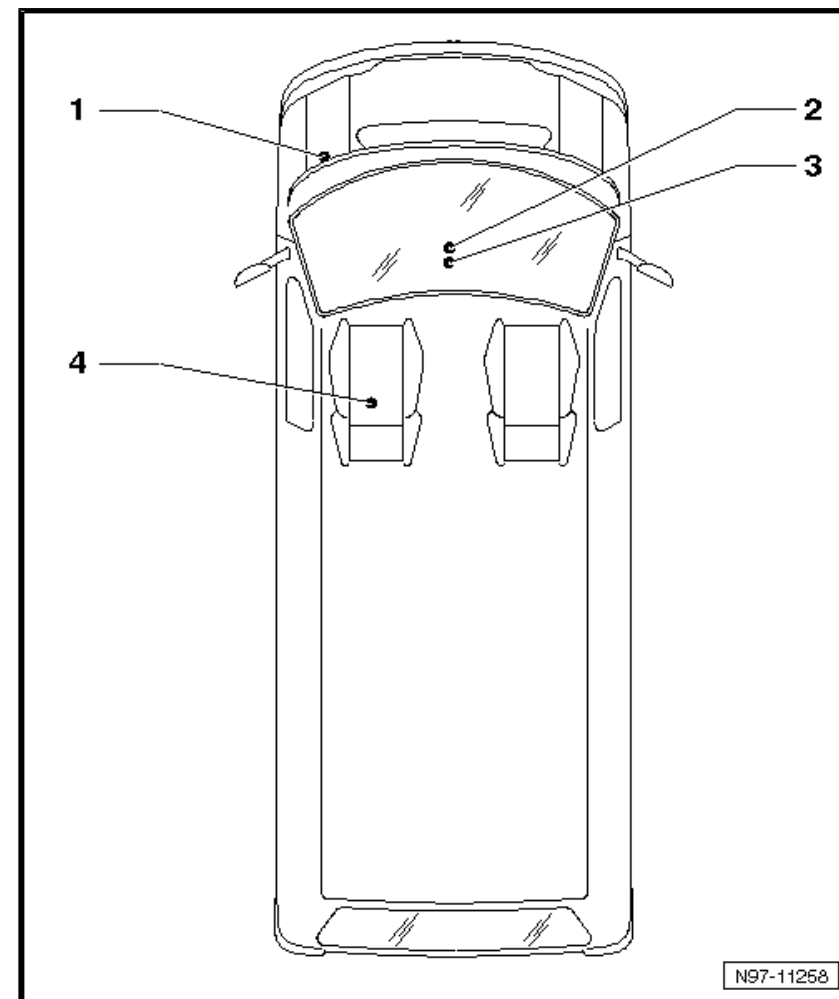
### 1.1 Overview:

- 1 - Relay carrier electronics box
- 2 - Relay carrier 1, cockpit
- 3 - Relay carrier 2, cockpit
- 4 - Relay carrier on left of seat box



#### Note

*The chamber marked as "vacant" can be fitted with a relay or a pin connector. See Fitting Locations "interior single fuses" and "coupling station"!*



No.	Function/component	Location	Figure on page
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1	- Battery isolation relay -J7-	- Relay carrier on left of seat box	- from March 2003 ⇒ <a href="#">page 28</a> - from February 2004 ⇒ <a href="#">page 29</a> - from June 2004 ⇒ <a href="#">page 30</a> - from August 2006 ⇒ <a href="#">page 31</a> - from June 2007 ⇒ <a href="#">page 32</a>
2	- Auxiliary heater relay -J8-	- Relay carrier (1), cockpit	- from March 2003 ⇒ <a href="#">page 33</a> - from February 2004 ⇒ <a href="#">page 34</a> - from June 2004 ⇒ <a href="#">page 35</a> - from August 2006 ⇒ <a href="#">page 36</a> - from June 2007 ⇒ <a href="#">page 36</a>
3	- Fuel pump relay -J17-	- Relay carrier electronics box (1.9 l - diesel engine)	- from March 2003 ⇒ <a href="#">page 8</a> - from June 2004 ⇒ <a href="#">page 9</a> - from August 2006 ⇒ <a href="#">page 10</a> - from June 2007 ⇒ <a href="#">page 11</a> - from November 2007 ⇒ <a href="#">page 12</a>
		- Relay carrier electronics box (2.0 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 13</a> - from June 2004 ⇒ <a href="#">page 14</a> - from August 2006 ⇒ <a href="#">page 15</a> - from June 2007 ⇒ <a href="#">page 16</a> - from November 2007 ⇒ <a href="#">page 17</a>
		- Relay carrier electronics box (2,5 l - diesel engine)	- from March 2003 ⇒ <a href="#">page 18</a> - from June 2004 ⇒ <a href="#">page 19</a> - from August 2006 ⇒ <a href="#">page 20</a> - from June 2007 ⇒ <a href="#">page 21</a> - from November 2007 ⇒ <a href="#">page 22</a>
		- Relay carrier electronics box (3,2 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 23</a> - from June 2004 ⇒ <a href="#">page 24</a> - from August 2006 ⇒ <a href="#">page 25</a> - from June 2007 ⇒ <a href="#">page 26</a> - from November 2007 ⇒ <a href="#">page 27</a>
4	- Headlight washer system relay -J39-	- Relay carrier (1), cockpit	- from March 2003 ⇒ <a href="#">page 33</a> - from February 2004 ⇒ <a href="#">page 34</a> - from June 2004 ⇒ <a href="#">page 35</a> - from August 2006 ⇒ <a href="#">page 36</a> - from June 2007 ⇒ <a href="#">page 36</a>
5	- Electric fuel pump 2 relay -J49-	- Relay carrier electronics box (2.0 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 13</a> - from June 2004 ⇒ <a href="#">page 14</a> - from August 2006 ⇒ <a href="#">page 15</a> - from June 2007 ⇒ <a href="#">page 16</a> - from November 2007 ⇒ <a href="#">page 17</a>
		- Relay carrier electronics box (3,2 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 23</a> - from June 2004 ⇒ <a href="#">page 24</a> - from August 2006 ⇒ <a href="#">page 25</a> - from June 2007 ⇒ <a href="#">page 26</a> - from November 2007 ⇒ <a href="#">page 27</a>

6	- Glow plug relay -J52-	- Relay carrier electronics box (1.9 l - diesel engine)	- from March 2003 ⇒ <a href="#">page 8</a> - from June 2004 ⇒ <a href="#">page 9</a> - from August 2006 ⇒ <a href="#">page 10</a> - from June 2007 ⇒ <a href="#">page 11</a> - from November 2007 ⇒ <a href="#">page 12</a>
		- Relay carrier electronics box (2,5 l - diesel engine)	- from March 2003 ⇒ <a href="#">page 18</a> - from June 2004 ⇒ <a href="#">page 19</a> - from August 2006 ⇒ <a href="#">page 20</a> - from June 2007 ⇒ <a href="#">page 21</a> - from November 2007 ⇒ <a href="#">page 22</a>
7	- X-contact relief relay -J59-	- Relay carrier (1), cockpit	- from March 2003 ⇒ <a href="#">page 33</a> - from February 2004 ⇒ <a href="#">page 34</a> - from June 2004 ⇒ <a href="#">page 35</a> - from August 2006 ⇒ <a href="#">page 36</a> - from June 2007 ⇒ <a href="#">page 36</a>
8	- Automatic gearbox relay -J60-	- Relay carrier electronics box (1.9 l - diesel engine)	- from March 2003 ⇒ <a href="#">page 8</a>
		- Relay carrier electronics box (2.0 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 13</a>
		- Relay carrier electronics box (2,5 l - diesel engine)	- from March 2003 ⇒ <a href="#">page 18</a> - from June 2004 ⇒ <a href="#">page 19</a> - from August 2006 ⇒ <a href="#">page 20</a> - from June 2007 ⇒ <a href="#">page 21</a> - from November 2007 ⇒ <a href="#">page 22</a>
		- Relay carrier electronics box (3,2 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 23</a> - from June 2004 ⇒ <a href="#">page 24</a> - from August 2006 ⇒ <a href="#">page 25</a> - from June 2007 ⇒ <a href="#">page 26</a> - from November 2007 ⇒ <a href="#">page 27</a>
9	- Alarm system control unit -J85-	- Relay carrier (2), cockpit	- from February 2004 ⇒ <a href="#">page 38</a> - from June 2004 ⇒ <a href="#">page 39</a> - from August 2006 ⇒ <a href="#">page 40</a> - from June 2007 ⇒ <a href="#">page 41</a>
10	- Magnetic clutch control unit -J153-	- Relay carrier electronics box (1.9 l - diesel engine)	- from March 2003 ⇒ <a href="#">page 8</a> - from June 2004 ⇒ <a href="#">page 9</a> - from August 2006 ⇒ <a href="#">page 10</a> - from June 2007 ⇒ <a href="#">page 11</a> - from November 2007 ⇒ <a href="#">page 12</a>
		- Relay carrier electronics box (2.0 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 13</a> - from June 2004 ⇒ <a href="#">page 14</a> - from August 2006 ⇒ <a href="#">page 15</a> - from June 2007 ⇒ <a href="#">page 16</a> - from November 2007 ⇒ <a href="#">page 17</a>

		- Relay carrier electronics box (3,2 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 23</a> - from June 2004 ⇒ <a href="#">page 24</a> - from August 2006 ⇒ <a href="#">page 25</a> - from June 2007 ⇒ <a href="#">page 26</a> - from November 2007 ⇒ <a href="#">page 27</a>
11	- Rear fresh air blower relay -J163-	- Relay carrier (2), cockpit	- from March 2003 ⇒ <a href="#">page 37</a> - from February 2004 ⇒ <a href="#">page 38</a> - from June 2004 ⇒ <a href="#">page 39</a>
12	- Automatic glow period control unit -J179-	- Relay carrier electronics box (1.9 l - diesel engine)	- from June 2004 ⇒ <a href="#">page 9</a> - from August 2006 ⇒ <a href="#">page 10</a> - from June 2007 ⇒ <a href="#">page 11</a> - from November 2007 ⇒ <a href="#">page 12</a>
		- Relay carrier electronics box (2,5 l - diesel engine)	- from June 2004 ⇒ <a href="#">page 19</a> - from August 2006 ⇒ <a href="#">page 20</a> - from June 2007 ⇒ <a href="#">page 21</a> - from November 2007 ⇒ <a href="#">page 22</a>
13	- Switch-over relay 1 for roof ventilator -J180-	- Relay carrier (2), cockpit	- from March 2003 ⇒ <a href="#">page 37</a> - from February 2004 ⇒ <a href="#">page 38</a> - from June 2004 ⇒ <a href="#">page 39</a> - from August 2006 ⇒ <a href="#">page 40</a> - from June 2007 ⇒ <a href="#">page 41</a>
14	- Switch-over relay 2 for roof ventilator -J181-	- Relay carrier (2), cockpit	- from March 2003 ⇒ <a href="#">page 37</a> - from February 2004 ⇒ <a href="#">page 38</a> - from June 2004 ⇒ <a href="#">page 39</a> - from August 2006 ⇒ <a href="#">page 40</a> - from June 2007 ⇒ <a href="#">page 41</a>
15	- Differential lock control unit -J187-	- Relay carrier (2), cockpit	- from March 2003 ⇒ <a href="#">page 37</a> - from February 2004 ⇒ <a href="#">page 38</a> - from June 2004 ⇒ <a href="#">page 39</a> - from August 2006 ⇒ <a href="#">page 40</a> - from June 2007 ⇒ <a href="#">page 41</a>
16	- Starter inhibitor relay -J207-	- Relay carrier electronics box (1.9 l - diesel engine)	- from June 2004 ⇒ <a href="#">page 9</a> - from August 2006 ⇒ <a href="#">page 10</a> - from June 2007 ⇒ <a href="#">page 11</a> - from November 2007 ⇒ <a href="#">page 12</a>
		- Relay carrier electronics box (2.0 l - petrol engine)	- from June 2004 ⇒ <a href="#">page 14</a> - from August 2006 ⇒ <a href="#">page 15</a> - from June 2007 ⇒ <a href="#">page 16</a> - from November 2007 ⇒ <a href="#">page 17</a>
		- Relay carrier electronics box (2,5 l - diesel engine)	- from March 2003 ⇒ <a href="#">page 18</a> - from June 2004 ⇒ <a href="#">page 19</a> - from August 2006 ⇒ <a href="#">page 20</a> - from June 2007 ⇒ <a href="#">page 21</a> - from November 2007 ⇒ <a href="#">page 22</a>

		- Relay carrier electronics box (3,2 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 23</a> - from June 2004 ⇒ <a href="#">page 24</a> - from August 2006 ⇒ <a href="#">page 25</a> - from June 2007 ⇒ <a href="#">page 26</a> - from November 2007 ⇒ <a href="#">page 27</a>
17	- Cut-out relay for air conditioning system magnetic coupling -J246-	- Relay carrier electronics box (1.9 l - diesel engine)	- from March 2003 ⇒ <a href="#">page 8</a> - from June 2004 ⇒ <a href="#">page 9</a> - from August 2006 ⇒ <a href="#">page 10</a> - from June 2007 ⇒ <a href="#">page 11</a> - from November 2007 ⇒ <a href="#">page 12</a>
		- Relay carrier electronics box (2.0 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 13</a> - from June 2004 ⇒ <a href="#">page 14</a> - from August 2006 ⇒ <a href="#">page 15</a> - from June 2007 ⇒ <a href="#">page 16</a> - from November 2007 ⇒ <a href="#">page 17</a>
		- Relay carrier electronics box (3,2 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 23</a> - from June 2004 ⇒ <a href="#">page 24</a> - from August 2006 ⇒ <a href="#">page 25</a> - from June 2007 ⇒ <a href="#">page 26</a> - from November 2007 ⇒ <a href="#">page 27</a>
18	- Secondary air pump relay -J299-	- Relay carrier electronics box (2.0 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 13</a> - from June 2004 ⇒ <a href="#">page 14</a> - from August 2006 ⇒ <a href="#">page 15</a> - from June 2007 ⇒ <a href="#">page 16</a> - from November 2007 ⇒ <a href="#">page 17</a>
		- Relay carrier electronics box (3,2 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 23</a> - from June 2004 ⇒ <a href="#">page 24</a> - from August 2006 ⇒ <a href="#">page 25</a> - from June 2007 ⇒ <a href="#">page 26</a> - from November 2007 ⇒ <a href="#">page 27</a>
19	- Terminal 30 voltage supply relay -J317-	- Relay carrier electronics box (1.9 l - diesel engine)	- from March 2003 ⇒ <a href="#">page 8</a> - from June 2004 ⇒ <a href="#">page 9</a> - from August 2006 ⇒ <a href="#">page 10</a> - from June 2007 ⇒ <a href="#">page 11</a> - from November 2007 ⇒ <a href="#">page 12</a>
		- Relay carrier electronics box (2.0 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 13</a> - from June 2004 ⇒ <a href="#">page 14</a> - from August 2006 ⇒ <a href="#">page 15</a> - from June 2007 ⇒ <a href="#">page 16</a> - from November 2007 ⇒ <a href="#">page 17</a>
		- Relay carrier electronics box (2,5 l - diesel engine)	- from March 2003 ⇒ <a href="#">page 18</a> - from June 2004 ⇒ <a href="#">page 19</a> - from August 2006 ⇒ <a href="#">page 20</a> - from June 2007 ⇒ <a href="#">page 21</a> - from November 2007 ⇒ <a href="#">page 22</a>

		- Relay carrier electronics box (3,2 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 23</a> - from June 2004 ⇒ <a href="#">page 24</a> - from August 2006 ⇒ <a href="#">page 25</a> - from June 2007 ⇒ <a href="#">page 26</a> - from November 2007 ⇒ <a href="#">page 27</a>
20	- Rotating light relay -J326-	- Relay carrier (1), cockpit	- from June 2003 ⇒ <a href="#">page 33</a>
		- Relay carrier (2), cockpit	- from February 2004 ⇒ <a href="#">page 38</a> - from June 2004 ⇒ <a href="#">page 39</a>
		- Relay carrier on left of seat box	- from August 2006 ⇒ <a href="#">page 31</a> - from June 2007 ⇒ <a href="#">page 32</a>
21	- Folding exterior mirror control unit -J351-	- Relay carrier (2), cockpit	- from August 2006 ⇒ <a href="#">page 40</a> - from June 2007 ⇒ <a href="#">page 41</a>
22	- Brake light additional relay -J419-	- Relay carrier (1), cockpit	- from March 2003 ⇒ <a href="#">page 33</a> - from February 2004 ⇒ <a href="#">page 34</a> - from June 2004 ⇒ <a href="#">page 35</a> - from August 2006 ⇒ <a href="#">page 36</a> - from June 2007 ⇒ <a href="#">page 36</a>
23	- Taxi alarm system 2 control unit -J430-	- Relay carrier (2), cockpit	- from February 2004 ⇒ <a href="#">page 38</a> - from June 2004 ⇒ <a href="#">page 39</a> - from August 2006 ⇒ <a href="#">page 40</a> - from June 2007 ⇒ <a href="#">page 41</a>
24	- Multifunction steering wheel control unit -J453-	- Relay carrier (2), cockpit	- from March 2003 ⇒ <a href="#">page 37</a> - from February 2004 ⇒ <a href="#">page 38</a> - from June 2004 ⇒ <a href="#">page 39</a> - from August 2006 ⇒ <a href="#">page 40</a> - from June 2007 ⇒ <a href="#">page 41</a>
25	- Alarm system relay 1 -J460-	- Relay carrier (2), cockpit	- from February 2004 ⇒ <a href="#">page 38</a> - from June 2004 ⇒ <a href="#">page 39</a>
		- Relay carrier on left of seat box	- from August 2006 ⇒ <a href="#">page 31</a> - from June 2007 ⇒ <a href="#">page 32</a>
26	- Fresh air blower isolation relay -J487-	- Relay carrier (1), cockpit	- from March 2003 ⇒ <a href="#">page 33</a> - from February 2004 ⇒ <a href="#">page 34</a> - from June 2004 ⇒ <a href="#">page 35</a>
		- Relay carrier (2), cockpit	- from January 2006 ⇒ <a href="#">page 39</a> - from August 2006 ⇒ <a href="#">page 40</a> - from June 2007 ⇒ <a href="#">page 41</a>
27	- Auxiliary coolant heater relay -J493-	- Relay carrier (1), cockpit	- from March 2003 ⇒ <a href="#">page 33</a> - from February 2004 ⇒ <a href="#">page 34</a> - from June 2004 ⇒ <a href="#">page 35</a> - from August 2006 ⇒ <a href="#">page 36</a> - from June 2007 ⇒ <a href="#">page 36</a>

28	- Additional coolant pump relay -J496-	- Relay carrier electronics box (1.9 l - diesel engine)	- from March 2003 ⇒ <a href="#">page 8</a> - from June 2004 ⇒ <a href="#">page 9</a> - from August 2006 ⇒ <a href="#">page 10</a> - from June 2007 ⇒ <a href="#">page 11</a> - from November 2007 ⇒ <a href="#">page 12</a>
		- Relay carrier electronics box (2.0 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 13</a> - from June 2004 ⇒ <a href="#">page 14</a> - from August 2006 ⇒ <a href="#">page 15</a> - from June 2007 ⇒ <a href="#">page 16</a> - from November 2007 ⇒ <a href="#">page 17</a>
		- Relay carrier electronics box (2,5 l - diesel engine)	- from March 2003 ⇒ <a href="#">page 18</a> - from June 2004 ⇒ <a href="#">page 19</a> - from August 2006 ⇒ <a href="#">page 20</a> - from June 2007 ⇒ <a href="#">page 21</a> - from November 2007 ⇒ <a href="#">page 22</a>
		- Relay carrier electronics box (3,2 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 23</a> - from June 2004 ⇒ <a href="#">page 24</a> - from August 2006 ⇒ <a href="#">page 25</a> - from June 2007 ⇒ <a href="#">page 26</a> - from November 2007 ⇒ <a href="#">page 27</a>
29	- Power steering control unit -J500-	- Relay carrier electronics box (1.9 l - diesel engine)	- from March 2003 ⇒ <a href="#">page 8</a>
		- Relay carrier electronics box (2.0 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 13</a>
		- Relay carrier electronics box (2,5 l - diesel engine)	- from March 2003 ⇒ <a href="#">page 18</a>
		- Relay carrier electronics box (3,2 l - petrol engine)	- from March 2003 ⇒ <a href="#">page 23</a>
30	- Taxi alarm remote control, control unit -J601-	- Relay carrier on left of seat box	- from February 2004 ⇒ <a href="#">page 29</a> - from June 2004 ⇒ <a href="#">page 30</a> - from August 2006 ⇒ <a href="#">page 31</a> - from June 2007 ⇒ <a href="#">page 32</a>
31	- Residual heat relay -J708-	- Relay carrier (1), cockpit	- from March 2003 ⇒ <a href="#">page 33</a> - from February 2004 ⇒ <a href="#">page 34</a> - from June 2004 ⇒ <a href="#">page 35</a> - from August 2006 ⇒ <a href="#">page 36</a> - from June 2007 ⇒ <a href="#">page 36</a>
32	- Dual signal inverter relay -J741-	- Relay carrier on left of seat box	- from March 2003 ⇒ <a href="#">page 28</a>
		- Relay carrier (2), cockpit	- from June 2003 ⇒ <a href="#">page 37</a>
		- Relay carrier (1), cockpit	- from February 2004 ⇒ <a href="#">page 34</a> - from June 2004 ⇒ <a href="#">page 35</a> - from August 2006 ⇒ <a href="#">page 36</a> - from June 2007 ⇒ <a href="#">page 36</a>

### 1.1.1 Relay carrier electronics box (8-pin), for 1.9 l diesel engine, from March 2003

◆ In electronics box in engine compartment

For engine codes AXB and AXC

Pos. - Connector/designation

1 - Glow plug relay -J52-

2 - Fuel pump relay -J17-

3 - Magnetic clutch control unit -J153-

4 - Cut-out relay for air conditioning system magnetic coupling  
-J246-

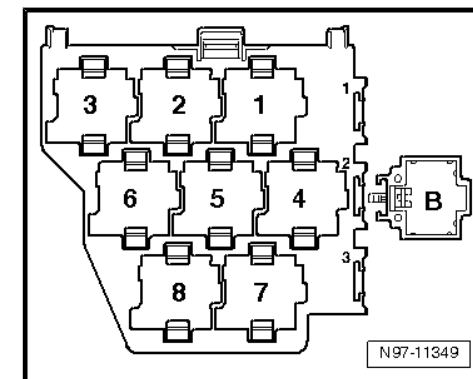
5 - Vacant

6 - Terminal 30 voltage supply relay -J317-

7 - Additional coolant pump relay -J496-

8 - Power steering control unit -J500-

2B - Automatic gearbox relay -J60-



### 1.1.2 Relay carrier electronics box (8-pin), for 1.9 I diesel engine, from June 2004

◆ In electronics box in engine compartment

for engine codes AXB, AXC, BRR and BRS

Pos. - Connector/designation

1 - Glow plug relay -J52- (103) <sup>2)</sup>

- Glow plug relay -J52- (100) <sup>3)</sup>

- Automatic glow period control unit -J179- (457) <sup>4)</sup>

2 - Fuel pump relay -J17- (53)

- vacant<sup>1)</sup>

3 - Magnetic clutch control unit -J153- (KL2)

4 - Cut-out relay for air conditioning system magnetic coupling -J246- (53)

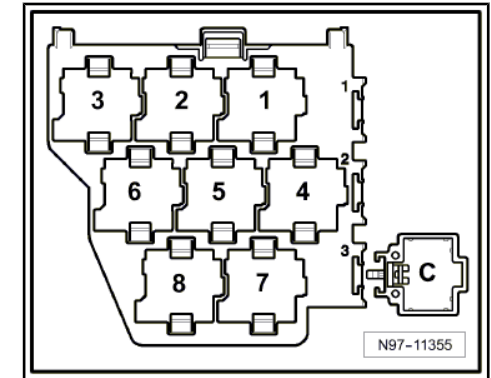
5 - Fuel pump relay -J17- (53) <sup>1)</sup>

6 - Terminal 30 voltage supply relay -J317- (109)

7 - Additional coolant pump relay -J496- (53)

8 - Vacant

3C - Starter inhibitor relay -J207- (53)



#### Note

◆ <sup>1)</sup> applicable from January 2006

◆ <sup>2)</sup> for engine codes AXB and AXC only

◆ <sup>3)</sup> applicable from June 2006 and engine codes AXB and AXC

◆ <sup>4)</sup> for engine codes BRR and BRS only



### 1.1.3 Relay carrier electronics box (8-pin), for 1.9 I diesel engine, from August 2006

◆ In electronics box in engine compartment

for engine codes AXB, AXC, BRR and BRS

Pos. - Connector/designation

1 - Glow plug relay -J52- (100) <sup>1)</sup>

- Automatic glow period control unit -J179- (457) <sup>2)</sup>

2 - Vacant

3 - Magnetic clutch control unit -J153- (KL2)

4 - Cut-out relay for air conditioning system magnetic coupling -J246- (53)

5 - Fuel pump relay -J17- (53)

6 - Terminal 30 voltage supply relay -J317- (109)

7 - Additional coolant pump relay -J496- (53)

8 - Vacant

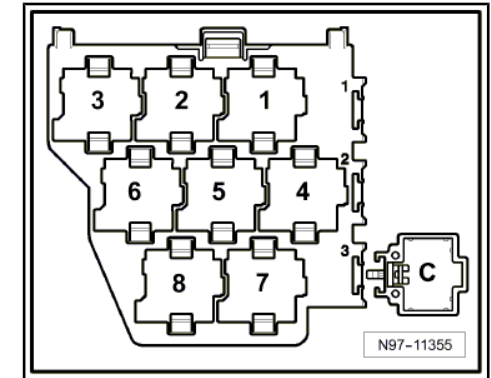
3C - Starter inhibitor relay -J207- (53)



#### Note

◆ <sup>1)</sup> for engine codes AXB and AXC only

◆ <sup>2)</sup> for engine codes BRR and BRS only



### 1.1.4 Relay carrier electronics box (8-pin), for 1.9 I diesel engine, from June 2007

◆ In electronics box in engine compartment

for engine codes AXB, AXC, BRR and BRS

Pos. - Connector/designation

1 - Glow plug relay -J52- (100) <sup>1)</sup>

- Automatic glow period control unit -J179- (457) <sup>2)</sup>

2 - Vacant

3 - Magnetic clutch control unit -J153- (KL2)

4 - Cut-out relay for air conditioning system magnetic coupling -J246- (53)

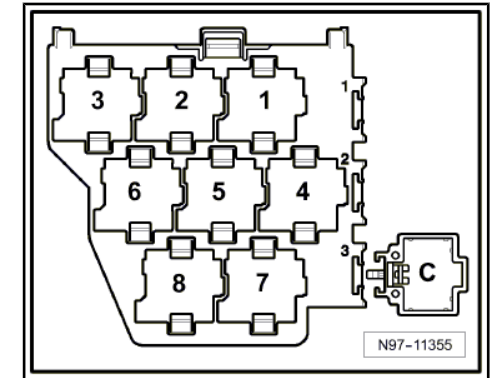
5 - Fuel pump relay -J17- (53)

6 - Terminal 30 voltage supply relay -J317- (109)

7 - Additional coolant pump relay -J496- (53)

8 - Vacant

3C - Starter inhibitor relay -J207- (53)



#### Note

◆ <sup>1)</sup> for engine codes AXB and AXC only

◆ <sup>2)</sup> for engine codes BRR and BRS only

### 1.1.5 Relay carrier electronics box (8-pin), for 1.9 l diesel engine, from November 2007

◆ In electronics box in engine compartment

for engine codes AXB, AXC, BRR and BRS

Pos. - Connector/designation

1 - Glow plug relay -J52- (100) <sup>1)</sup>

- Automatic glow period control unit -J179- (457) <sup>2)</sup>

2 - Vacant

3 - Magnetic clutch control unit -J153- (454)

4 - Vacant

5 - Vacant

- Starter inhibitor relay -J207- (449)

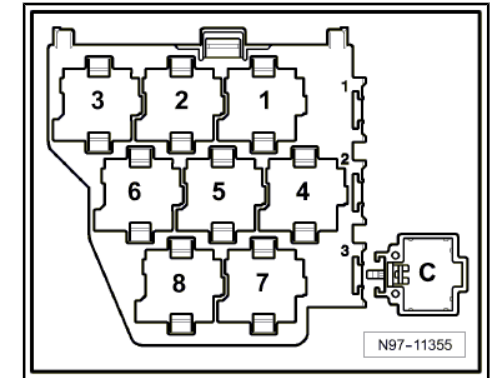
6 - Terminal 30 voltage supply relay -J317- (643)

7 - Fuel pump relay -J17- (449)

- Additional coolant pump relay -J496- (449)

8 - Vacant

- Cut-out relay for air conditioning system magnetic coupling -J246- (449)



#### Note

◆ <sup>1)</sup> for engine codes AXB and AXC only

◆ <sup>2)</sup> for engine codes BRR and BRS only

### 1.1.6 Relay carrier electronics box (8-pin), for 2.0 l petrol engine, from March 2003

◆ In electronics box in engine compartment

For engine code AXA

Pos. - Connector/designation

1 - Secondary air pump relay -J299-

2 - Fuel pump relay -J17-

3 - Magnetic clutch control unit -J153-

4 - Cut-out relay for air conditioning system magnetic coupling -J246-

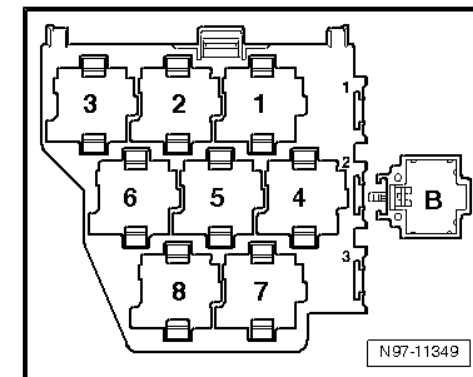
5 - Electric fuel pump 2 relay -J49-

6 - Terminal 30 voltage supply relay -J317-

7 - Additional coolant pump relay -J496-

8 - Power steering control unit -J500-

2B - Automatic gearbox relay -J60-



### 1.1.7 Relay carrier electronics box (8-pin), for 2.0 I petrol engine, from June 2004

◆ In electronics box in engine compartment

For engine code AXA

Pos. - Connector/designation

1 - Secondary air pump relay -J299- (100)

2 - Fuel pump relay -J17- (167)

3 - Magnetic clutch control unit -J153- (KL2)

4 - Cut-out relay for air conditioning system magnetic coupling -J246- (53)

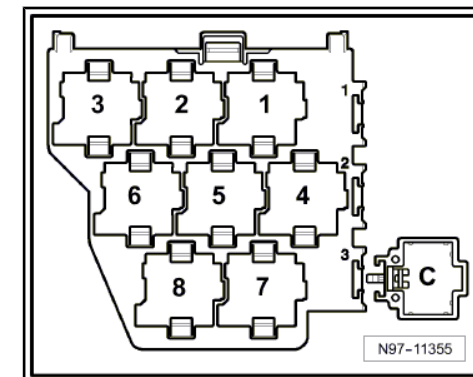
5 - Electric fuel pump 2 relay -J49- (404)

6 - Terminal 30 voltage supply relay -J317- (109)

7 - Additional coolant pump relay -J496- (53)

8 - Vacant

3C - Starter inhibitor relay -J207- (53)



### 1.1.8 Relay carrier electronics box (8-pin), for 2.0 I petrol engine, from August 2006

◆ In electronics box in engine compartment

For engine code AXA

Pos. - Connector/designation

1 - Secondary air pump relay -J299- (100)

2 - Fuel pump relay -J17- (167)

3 - Magnetic clutch control unit -J153- (KL2)

4 - Cut-out relay for air conditioning system magnetic coupling -J246- (53)

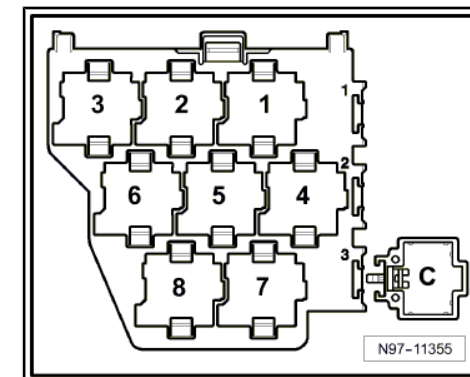
5 - Electric fuel pump 2 relay -J49- (404)

6 - Terminal 30 voltage supply relay -J317- (109)

7 - Additional coolant pump relay -J496- (53)

8 - Vacant

3C - Starter inhibitor relay -J207- (53)



### 1.1.9 Relay carrier electronics box (8-pin), for 2.0 I petrol engine, from June 2007

◆ In electronics box in engine compartment

For engine code AXA

Pos. - Connector/designation

1 - Secondary air pump relay -J299- (100)

2 - Fuel pump relay -J17- (167)

3 - Magnetic clutch control unit -J153- (KL2)

4 - Cut-out relay for air conditioning system magnetic coupling -J246- (53)

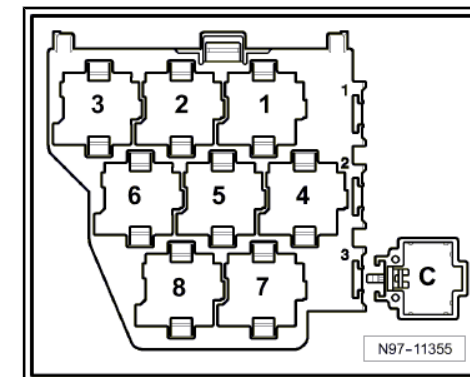
5 - Electric fuel pump 2 relay -J49- (404)

6 - Terminal 30 voltage supply relay -J317- (109)

7 - Additional coolant pump relay -J496- (53)

8 - Vacant

3C - Starter inhibitor relay -J207- (53)



### 1.1.10 Relay carrier electronics box (8-pin), for 2.0 l petrol engine, from November 2007

◆ In electronics box in engine compartment

For engine code AXA

Pos. - Connector/designation

1 - Secondary air pump relay -J299- (100)

2 - Vacant

- Electric fuel pump 2 relay -J49- (449)

3 - Magnetic clutch control unit -J153- (454)

4 - Fuel pump relay -J17- (643)

5 - Vacant

- Starter inhibitor relay -J207- (449)

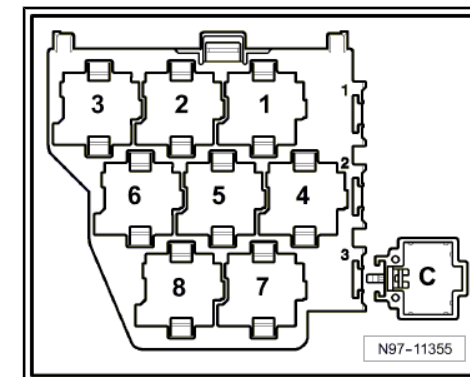
6 - Terminal 30 voltage supply relay -J317- (643)

7 - Vacant

- Additional coolant pump relay -J496- (449)

8 - Vacant

- Cut-out relay for air conditioning system magnetic coupling -J246- (449)





### 1.1.11 Relay carrier electronics box (8-pin), for 2,5 l diesel engine, from March 2003

◆ In electronics box in engine compartment

For engine codes AXD and AXE

Pos. - Connector/designation

1 - Glow plug relay -J52-

2 - Fuel pump relay -J17-

3 - Vacant

4 - Starter inhibitor relay -J207-

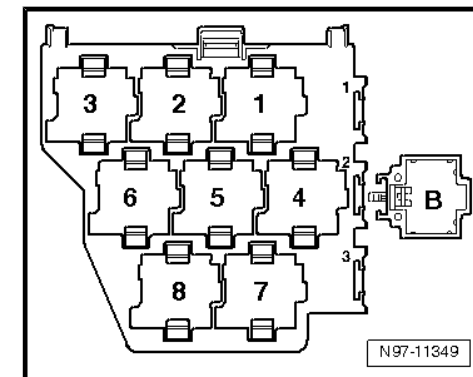
5 - Vacant

6 - Terminal 30 voltage supply relay -J317-

7 - Additional coolant pump relay -J496-

8 - Power steering control unit -J500-

2B - Automatic gearbox relay -J60-



### 1.1.12 Relay carrier electronics box (8-pin), for 2,5 l diesel engine, from June 2004

◆ In electronics box in engine compartment

for engine codes AXD, AXE, BLJ, BNZ and BPC

Pos. - Connector/designation

1 - Glow plug relay -J52- (103) <sup>2)</sup>

- Glow plug relay -J52- (100) <sup>3)</sup>

- Automatic glow period control unit -J179- (475) <sup>4)</sup>

2 - Fuel pump relay -J17- (53)

3 - Vacant

4 - Vacant

5 - Fuel pump relay -J17- (53) <sup>1)</sup>

6 - Terminal 30 voltage supply relay -J317- (109)

7 - Additional coolant pump relay -J496- (53)

8 - Vacant

2B - Automatic gearbox relay -J60- (53)

3C - Starter inhibitor relay -J207- (53)



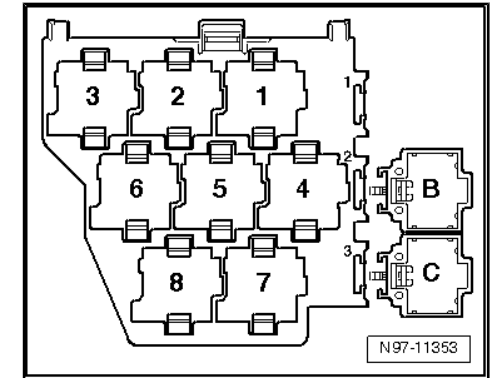
#### Note

◆ <sup>1)</sup> applicable from January 2006

◆ <sup>2)</sup> for engine codes AXD, AXE and BLJ only

◆ <sup>3)</sup> applicable from June 2006 and engine codes AXD, AXE, BLJ

◆ <sup>4)</sup> for engine codes BNZ and BPC only



### 1.1.13 Relay carrier electronics box (8-pin), for 2,5 l diesel engine, from August 2006

◆ In electronics box in engine compartment

for engine codes AXD, AXE, BLJ, BNZ and BPC

Pos. - Connector/designation

1 - Glow plug relay -J52- (100) <sup>1)</sup>

- Automatic glow period control unit -J179- (475) <sup>2)</sup>

2 - Vacant

3 - Vacant

4 - Vacant

5 - Fuel pump relay -J17- (53)

6 - Terminal 30 voltage supply relay -J317- (109)

7 - Additional coolant pump relay -J496- (53)

8 - Vacant

2B - Automatic gearbox relay -J60- (53)

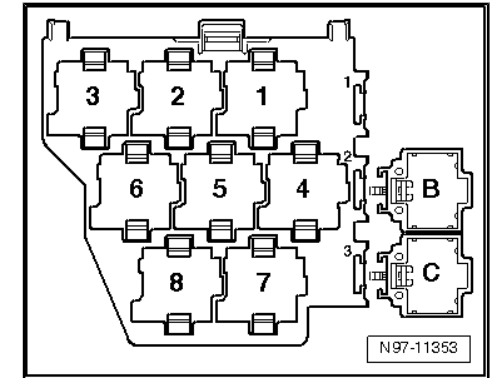
3C - Starter inhibitor relay -J207- (53)



#### Note

◆ <sup>1)</sup> for engine codes AXD, AXE and BJL only

◆ <sup>2)</sup> for engine codes BNZ and BPC only



### 1.1.14 Relay carrier electronics box (8-pin), for 2,5 l diesel engine, from June 2007

◆ In electronics box in engine compartment

for engine codes AXD, AXE, BLJ, BNZ and BPC

Pos. - Connector/designation

1 - Glow plug relay -J52- (100) <sup>1)</sup>

- Automatic glow period control unit -J179- (475) <sup>2)</sup>

2 - Vacant

3 - Vacant

4 - Vacant

5 - Fuel pump relay -J17- (53)

6 - Terminal 30 voltage supply relay -J317- (109)

7 - Additional coolant pump relay -J496- (53)

8 - Vacant

2B - Automatic gearbox relay -J60- (53)

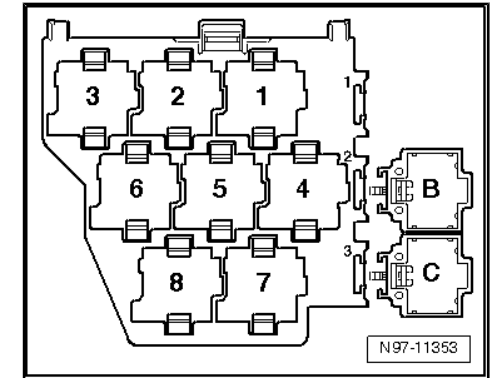
3C - Starter inhibitor relay -J207- (53)



#### Note

◆ <sup>1)</sup> for engine codes AXD, AXE and BLJ only

◆ <sup>2)</sup> for engine codes BNZ and BPC only



### 1.1.15 Relay carrier electronics box (8-pin), for 2,5 l diesel engine, from November 2007

◆ In electronics box in engine compartment

for engine codes AXD, AXE, BLJ, BNZ and BPC

Pos. - Connector/designation

1 - Glow plug relay -J52- (100) <sup>1)</sup>

- Automatic glow period control unit -J179- (475) <sup>2)</sup>

2 - Vacant

3 - Vacant

4 - Vacant

5 - Automatic gearbox relay -J60- (449)

- Starter inhibitor relay -J207- (449)

6 - Terminal 30 voltage supply relay -J317- (643)

7 - Fuel pump relay -J17- (449)

- Additional coolant pump relay -J496- (449)

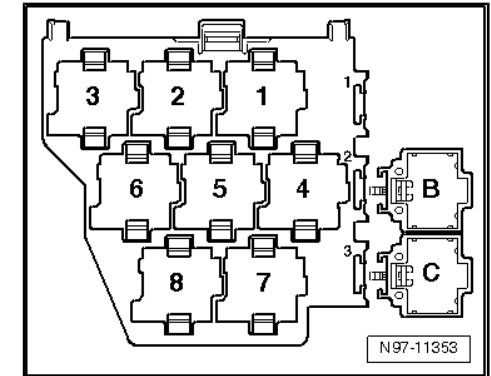
8 - Vacant



#### Note

◆ <sup>1)</sup> for engine codes AXD, AXE and BLJ only

◆ <sup>2)</sup> for engine codes BNZ and BPC only



### 1.1.16 Relay carrier electronics box (8-pin), for 3,2 l petrol engine, from March 2003

◆ In electronics box in engine compartment

For engine codes BDL and BDM

Pos. - Connector/designation

1 - Secondary air pump relay -J299-

2 - Terminal 30 voltage supply relay -J317-

3 - Magnetic clutch control unit -J153-

4 - Cut-out relay for air conditioning system magnetic coupling -J246-

5 - Electric fuel pump 2 relay -J49-

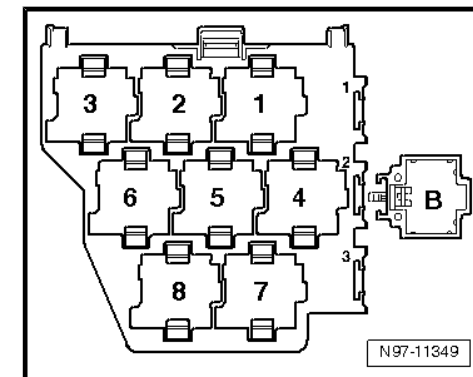
- Additional coolant pump relay -J496-

6 - Fuel pump relay -J17-

7 - Starter inhibitor relay -J207-

8 - Power steering control unit -J500-

2B - Automatic gearbox relay -J60-



### 1.1.17 Relay carrier electronics box (8-pin), for 3,2 l petrol engine, from June 2004

◆ In electronics box in engine compartment

For engine codes BDL, BDM and BKK

Pos. - Connector/designation

1 - Secondary air pump relay -J299- (100)

2 - Terminal 30 voltage supply relay -J317- (428)

- Terminal 30 voltage supply relay -J317- (614) <sup>1)</sup>

3 - Magnetic clutch control unit -J153- (KL2)

4 - Cut-out relay for air conditioning system magnetic coupling -J246- (53)

5 - Electric fuel pump 2 relay -J49- (404)

- Additional coolant pump relay -J496- (404)

6 - Fuel pump relay -J17- (167)

7 - Vacant

8 - Vacant

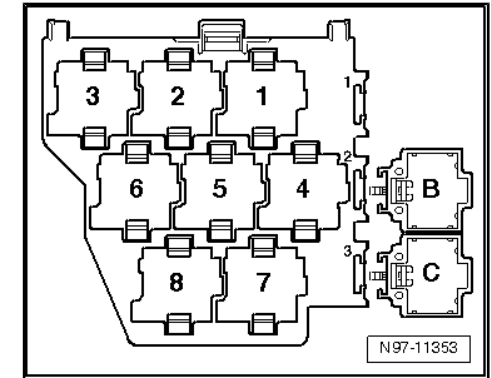
2B - Automatic gearbox relay -J60- (53)

3C - Starter inhibitor relay -J207- (53)



**Note**

<sup>1)</sup> applicable from June 2006



### 1.1.18 Relay carrier electronics box (8-pin), for 3,2 l petrol engine, from August 2006

◆ In electronics box in engine compartment

For engine codes BDL, BDM and BKK

Pos. - Connector/designation

1 - Secondary air pump relay -J299- (100)

2 - Terminal 30 voltage supply relay -J317- (614)

3 - Magnetic clutch control unit -J153- (KL2)

4 - Cut-out relay for air conditioning system magnetic coupling -J246- (53)

5 - Electric fuel pump 2 relay -J49- (404)

- Additional coolant pump relay -J496- (404)

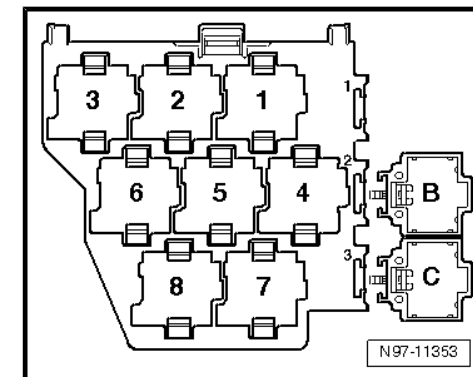
6 - Fuel pump relay -J17- (167)

7 - Vacant

8 - Vacant

2B - Automatic gearbox relay -J60- (53)

3C - Starter inhibitor relay -J207- (53)





### 1.1.19 Relay carrier electronics box (8-pin), for 3,2 l petrol engine, from June 2007

◆ In electronics box in engine compartment

For engine codes BDL, BDM and BKK

Pos. - Connector/designation

1 - Secondary air pump relay -J299- (100)

2 - Terminal 30 voltage supply relay -J317- (614)

3 - Magnetic clutch control unit -J153- (KL2)

4 - Cut-out relay for air conditioning system magnetic coupling -J246- (53)

5 - Electric fuel pump 2 relay -J49- (404)

- Additional coolant pump relay -J496- (404)

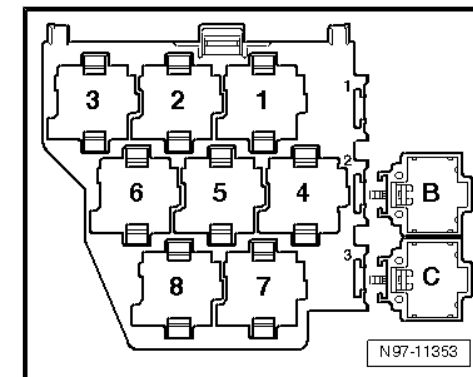
6 - Fuel pump relay -J17- (167)

7 - Vacant

8 - Vacant

2B - Automatic gearbox relay -J60- (53)

3C - Starter inhibitor relay -J207- (53)



### 1.1.20 Relay carrier electronics box (8-pin), for 3,2 l petrol engine, from November 2007

◆ In electronics box in engine compartment

For engine codes BDL, BDM and BKK

Pos. - Connector/designation

1 - Secondary air pump relay -J299- (100)

2 - Additional coolant pump relay -J496- (449)

- Electric fuel pump 2 relay -J49- (449)

3 - Magnetic clutch control unit -J153- (454)

4 - Vacant

5 - Automatic gearbox relay -J60- (449)

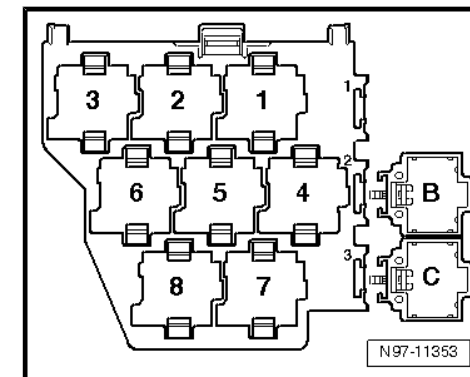
- Starter inhibitor relay -J207- (449)

6 - Terminal 30 voltage supply relay -J317- (100)

7 - Fuel pump relay -J17- (643)

8 - Vacant

- Cut-out relay for air conditioning system magnetic coupling -J246- (449)



### 1.1.21 Relay carrier, left in seat box (8-pin), from March 2003

- ◆ On left in seat box

Pos. - Connector/designation

1 - Vacant

2 - Vacant

3 - Vacant

4 - Vacant

5 - Vacant

6 - vacant<sup>1)</sup>

- Battery isolation relay -J7- <sup>2)</sup>

7 - Vacant

8 - Battery isolation relay -J7- <sup>1)</sup>

- vacant<sup>2)</sup>

3) - Dual signal inverter relay -J741- <sup>1)</sup>

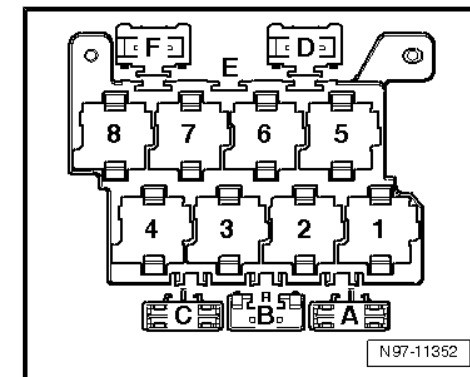


#### Note

◆ <sup>1)</sup> applicable up to May 2003

◆ <sup>2)</sup> applicable from June 2003

◆ <sup>3)</sup> position is depends on equipment



### 1.1.22 Relay carrier, left in seat box (8-pin), from February 2004

◆ On left in seat box

Pos. - Connector/designation

1 - Vacant

2 - Vacant

3 - Vacant

4 - Taxi alarm remote control, control unit -J601- <sup>1)</sup>

5 - Vacant

6 - Battery isolation relay -J7-

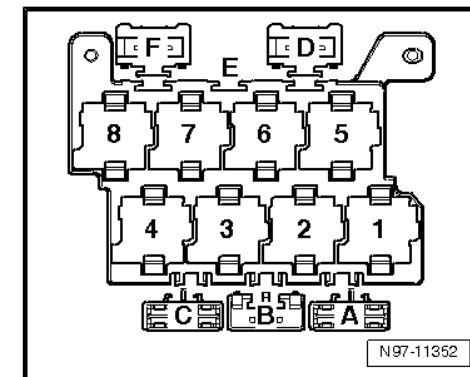
7 - Vacant

8 - Vacant



**Note**

<sup>1)</sup> for models with taxi equipment only



### 1.1.23 Relay carrier, left in seat box (8-pin), from June 2004

◆ On left in seat box

Pos. - Connector/designation

1 - Vacant

2 - Vacant

3 - Vacant

4 - Taxi alarm remote control, control unit -J601- <sup>1)</sup>

5 - Vacant

6 - Battery isolation relay -J7- (100)

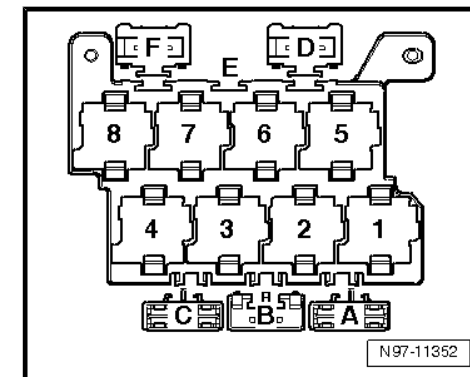
7 - Vacant

8 - Vacant



**Note**

<sup>1)</sup> for models with taxi equipment only



### 1.1.24 Relay carrier, left in seat box (8-pin), from August 2006

◆ On left in seat box

Pos. - Connector/designation

1 - Vacant

2 - Vacant

3 - Vacant

4 - Taxi alarm remote control, control unit -J601- <sup>1)</sup>

5 - Vacant

6 - Battery isolation relay -J7- (100)

7 - Vacant

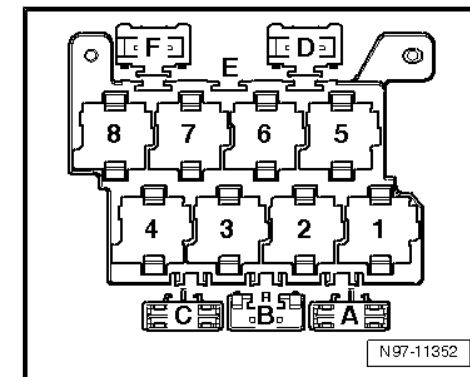
8 - Rotating light relay -J326- (406)

- Alarm system relay 1 -J460- <sup>1)</sup>



**Note**

<sup>1)</sup> for models with taxi equipment only



### 1.1.25 Relay carrier, left in seat box (8-pin), from June 2007

◆ On left in seat box

Pos. - Connector/designation

1 - Vacant

2 - Vacant

3 - Vacant

4 - Taxi alarm remote control, control unit -J601- <sup>1)</sup>

5 - Vacant

6 - Battery isolation relay -J7- (100)

7 - Vacant

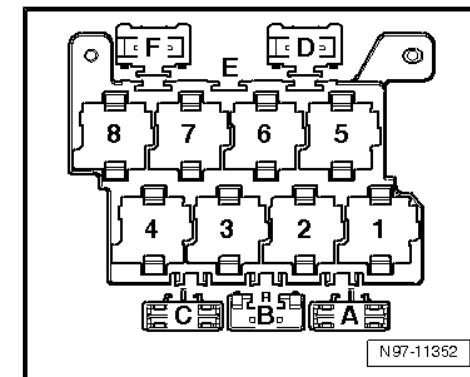
8 - Rotating light relay -J326- (486)

- Alarm system relay 1 -J460- (53) <sup>1)</sup>



**Note**

<sup>1)</sup> for models with taxi equipment only



### 1.1.26 Relay carrier (1) cockpit (8-pin), from March 2003

◆ Under dash panel (centre, under the fuses)

Pos. - Connector/designation

1 - Auxiliary heater relay -J8-

- Residual heat relay -J708-

2 - Headlight washer system relay -J39-

3 - Brake light additional relay -J419-

4 - Rotating light relay -J326- <sup>1)</sup>

5 - X-contact relief relay -J59-

6 - Fresh air blower isolation relay -J487-

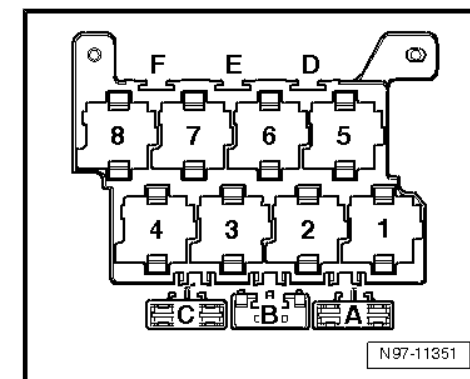
7 - Auxiliary coolant heater relay -J493-

8 - Vacant



**Note**

<sup>1)</sup> applicable from June 2003





### 1.1.27 Relay carrier (1) cockpit (8-pin), from February 2004

◆ Under dash panel (centre, under the fuses)

Pos. - Connector/designation

1 - Auxiliary heater relay -J8-

- Residual heat relay -J708-

2 - Headlight washer system relay -J39-

3 - Brake light additional relay -J419-

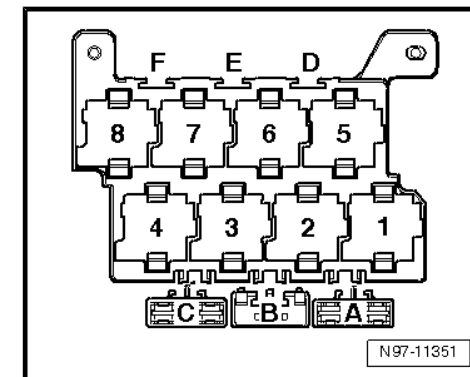
4 - Dual signal inverter relay -J741-

5 - X-contact relief relay -J59-

6 - Fresh air blower isolation relay -J487-

7 - Auxiliary coolant heater relay -J493-

8 - Vacant



### 1.1.28 Relay carrier (1) cockpit (8-pin), June 2004

- ◆ Under dash panel (centre, under the fuses)

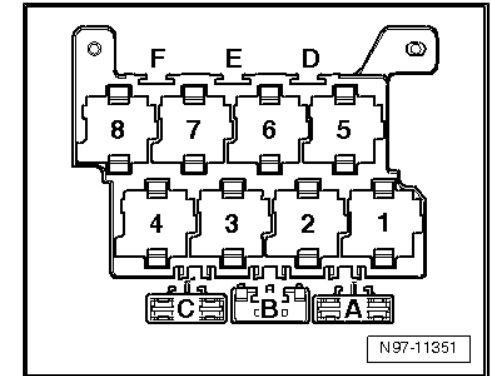
Pos. - Connector/designation

- 1 - Auxiliary heater relay -J8- (404)
- Residual heat relay -J708- (404)
- 2 - Headlight washer system relay -J39- (53)
- 3 - Brake light additional relay -J419- (404/480)
- 4 - Dual signal inverter relay -J741- (472) <sup>3)</sup>
- vacant<sup>1)</sup>
- 5 - X-contact relief relay -J59- (100)
- 6 - Fresh air blower isolation relay -J487- (53) <sup>2)</sup>
- 7 - Auxiliary coolant heater relay -J493- (53)
- 8 - vacant<sup>3)</sup>
- Dual signal inverter relay -J741- (472) <sup>1)</sup>



#### Note

- ◆ <sup>1)</sup> applicable from January 2006
- ◆ <sup>2)</sup> is dropped from September 2004
- ◆ <sup>3)</sup> up to December 2005

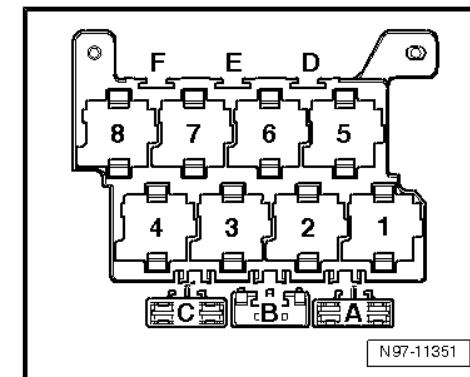


### 1.1.29 Relay carrier (1) cockpit (8-pin), from August 2006

- ◆ Under dash panel (centre, under the fuses)

Pos. - Connector/designation

- 1 - Auxiliary heater relay -J8- (404)
- Residual heat relay -J708- (404)
- 2 - Headlight washer system relay -J39- (53)
- 3 - Brake light additional relay -J419- (404/480)
- 4 - Vacant
- 5 - X-contact relief relay -J59- (100)
- 6 - Dual signal inverter relay -J741- (472)
- 7 - Auxiliary coolant heater relay -J493- (53)
- 8 - Vacant

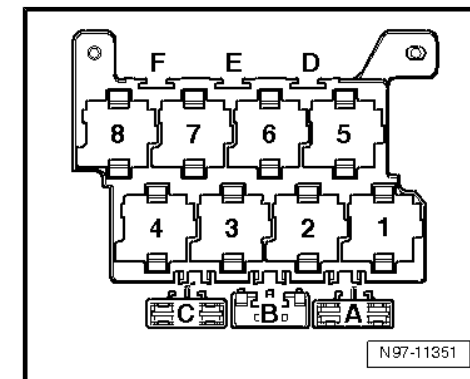


### 1.1.30 Relay carrier (1) cockpit (8-pin), from June 2007

- ◆ Under dash panel (centre, under the fuses)

Pos. - Connector/designation

- 1 - Auxiliary heater relay -J8- (404)
- Residual heat relay -J708- (404)
- 2 - Headlight washer system relay -J39- (53)
- 3 - Brake light additional relay -J419- (404/480)
- 4 - Vacant
- 5 - X-contact relief relay -J59- (100)
- 6 - Vacant
- 7 - Dual signal inverter relay -J741- (472)
- 8 - Auxiliary coolant heater relay -J493- (53)



### 1.1.31 Relay carrier (2) cockpit (8-pin), from March 2003

◆ Under dash panel (centre, under the fuses)

Pos. - Connector/designation

1 - Vacant

2 - Vacant

3 - Dual signal inverter relay -J741- <sup>1)</sup>

4 - Differential lock control unit -J187-

5 - Switch-over relay 1 for roof ventilator -J180-

- Switch-over relay 2 for roof ventilator -J181-

6 - Multifunction steering wheel control unit -J453-

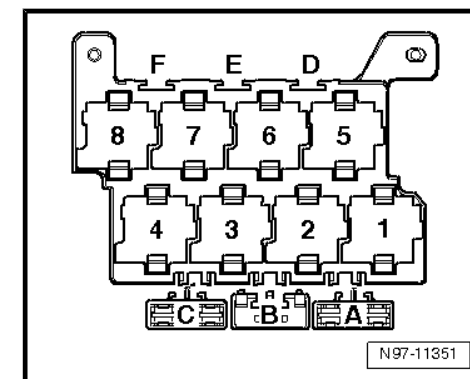
7 - Multifunction steering wheel control unit -J453-

8 - Rear fresh air blower relay -J163-



**Note**

<sup>1)</sup> applicable from June 2003



### 1.1.32 Relay carrier (2) cockpit (8-pin), from February 2004

◆ Under dash panel (centre, under the fuses)

Pos. - Connector/designation

1 - Vacant

2 - Vacant

3 - Rotating light relay -J326-

- Alarm system relay 1 -J460- <sup>1)</sup>

4 - Differential lock control unit -J187-

5 - Switch-over relay 1 for roof ventilator -J180-

- Switch-over relay 2 for roof ventilator -J181-

- Taxi alarm system 2 control unit -J430- <sup>1)</sup>

6 - Multifunction steering wheel control unit -J453-

- Alarm system control unit -J85- <sup>1)</sup>

7 - Multifunction steering wheel control unit -J453-

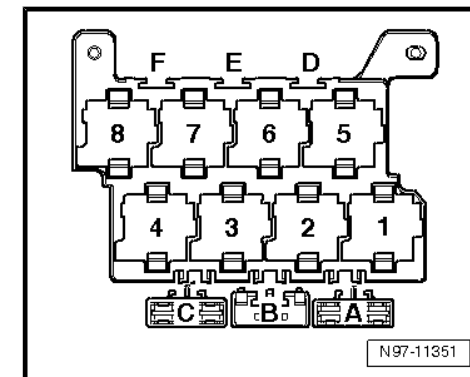
- Alarm system control unit -J85- <sup>1)</sup>

8 - Rear fresh air blower relay -J163-



**Note**

<sup>1)</sup> for models with taxi equipment only



### 1.1.33 Relay carrier (2) cockpit (8-pin), from June 2004

- ◆ Under dash panel (centre, under the fuses)

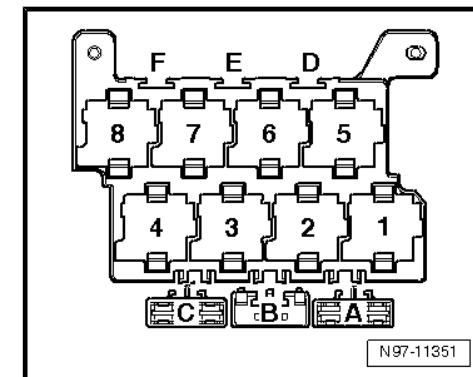
Pos. - Connector/designation

- 1 - Vacant
- 2 - Vacant
- 3 - Rotating light relay -J326- (406)
  - Alarm system relay 1 -J460- <sup>3)</sup>
- 4 - Differential lock control unit -J187- (468)
- 5 - Switch-over relay 1 for roof ventilator -J180- (404)
  - Switch-over relay 2 for roof ventilator -J181- (404)
- Taxi alarm system 2 control unit -J430- <sup>3)</sup>
- 6 - Alarm system control unit -J85- <sup>3)</sup>
  - Multifunction steering wheel control unit -J453- (451)
- 7 - Alarm system control unit -J85- <sup>3)</sup>
  - Multifunction steering wheel control unit -J453- (451)
- 8 - Rear fresh air blower relay -J163- <sup>1)</sup>
  - Fresh air blower isolation relay -J487- (53) <sup>2)</sup>



**Note**

- ◆ <sup>1)</sup> applicable up to December 2005
- ◆ <sup>2)</sup> applicable from January 2006
- ◆ <sup>3)</sup> for models with taxi equipment only



### 1.1.34 Relay carrier (2) cockpit (8-pin), from August 2006

◆ Under dash panel (centre, under the fuses)

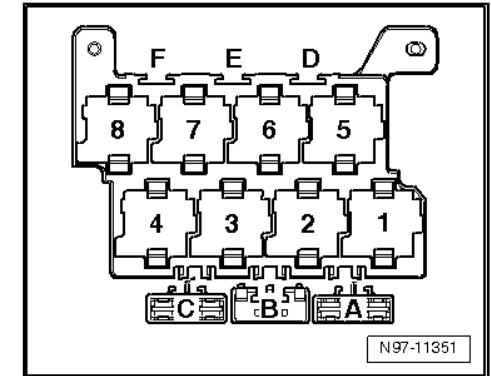
Pos. - Connector/designation

- 1 - Folding exterior mirror control unit -J351- (361)
- 2 - Folding exterior mirror control unit -J351- (361)
- 3 - Vacant
- 4 - Differential lock control unit -J187- (468)
- 5 - Alarm system control unit -J85- <sup>1)</sup>
- Multifunction steering wheel control unit -J453- (451)
- 6 - Alarm system control unit -J85- <sup>1)</sup>
- Multifunction steering wheel control unit -J453- (451)
- 7 - Switch-over relay 1 for roof ventilator -J180- (404)
- Switch-over relay 2 for roof ventilator -J181- (404)
- Taxi alarm system 2 control unit -J430- <sup>1)</sup>
- 8 - Fresh air blower isolation relay -J487- (53)



#### Note

<sup>1)</sup> for models with taxi equipment only



### 1.1.35 Relay carrier (2) cockpit (8-pin), from June 2007

◆ Under dash panel (centre, under the fuses)

Pos. - Connector/designation

1 - Vacant

2 - Folding exterior mirror control unit -J351- (361)

3 - Folding exterior mirror control unit -J351- (361)

4 - Differential lock control unit -J187- (468)

5 - Alarm system control unit -J85- (73) <sup>1)</sup>

- Multifunction steering wheel control unit -J453- (451)

6 - Alarm system control unit -J85- (73) <sup>1)</sup>

- Multifunction steering wheel control unit -J453- (451)

7 - Switch-over relay 1 for roof ventilator -J180- (404)

- Switch-over relay 2 for roof ventilator -J181- (404)

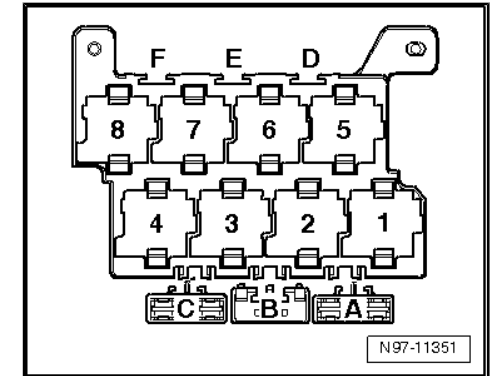
- Taxi alarm system 2 control unit -J430- (53) <sup>1)</sup>

8 - Fresh air blower isolation relay -J487- (53)



#### Note

<sup>1)</sup> for models with taxi equipment only





## 1 Coupling stations

### 1.1 Overview:

#### 1 - Coupling station electronics box

T6q,  
T6bk,  
T6bz,  
T10,  
T10a,  
T10b,  
T10c,  
T10d,  
T10e,  
T10f,  
T10g,  
T10h,  
T10j,  
T10k,  
T10l,  
T10m,  
T10n

◆ up to May 2004 ⇒ [page 4](#)

◆ from June 2004 ⇒ [page 5](#)

#### 2 - Coupling station near treble tone horn/bass tone horn

T8,  
T8ae,  
T10bl,  
T14

from March 2003 ⇒ [page 20](#)

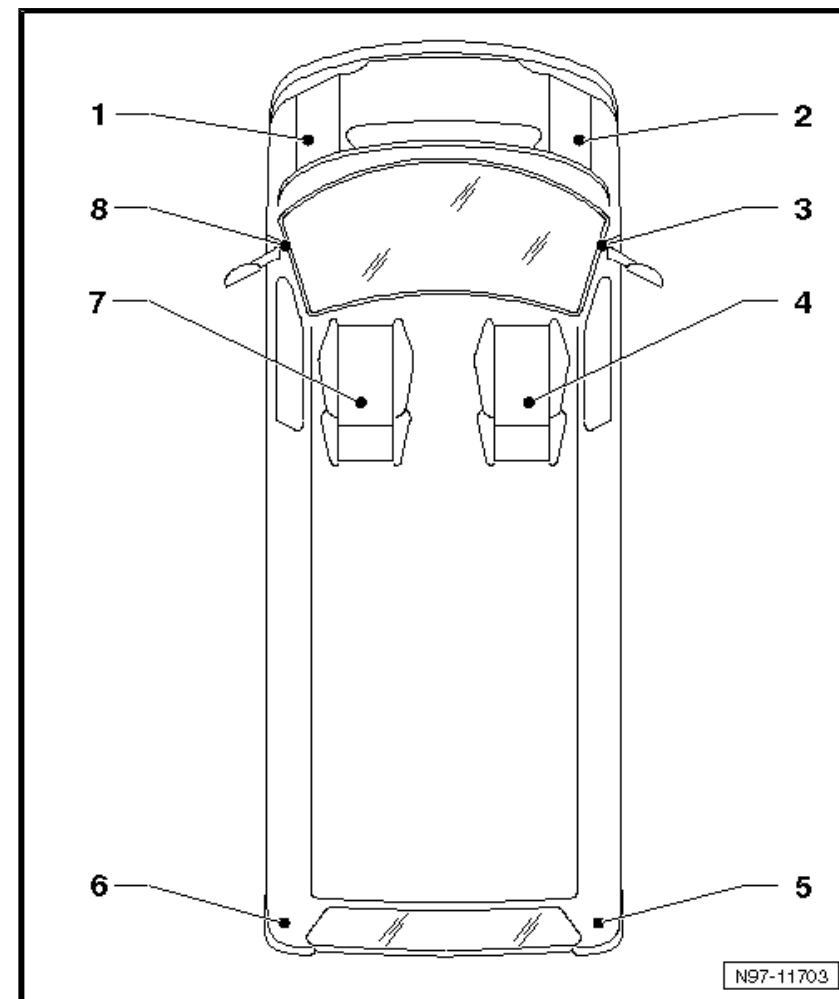
#### 3 - Coupling station, right A-pillar

T6k,  
T10ak,  
T10al,  
T10bn

from March 2003 ⇒ [page 6](#)

#### 4 - Coupling station right seat box

T6v,  
T6w,  
T6x,



T6y,  
T6z,  
T10as,  
T10au,  
T10av,  
T10ay,  
T10az,  
T10be,  
T10bk

up to May 2003 ⇒ [page 7](#)

from June 2003 ⇒ [page 8](#)

**5 - Coupling station on right of D-pillar**

T6ar,  
T6at,  
T10z,  
T17d

up to October 2006 ⇒ [page 9](#)

from November 2006 ⇒ [page 9](#)

**6 - Coupling station on left of D-pillar**

T6n,  
T6o,  
T6p,  
T6af,  
T6be,  
T6bf,  
T6bo,  
T8af,  
T8ag,  
T10v,  
T10w,  
T10x,  
T10y,  
T10bd,  
T12v,  
T17c

up to May 2003 ⇒ [page 10](#)

from June 2003 up to May 2004 ⇒ [page 11](#)

from June 2004 up to October 2006 ⇒ [page 12](#)

from November 2006 ⇒ [page 13](#)

**7 - Coupling station on left of seat box**

T6g,  
T6h,  
T6j,  
T6bn,  
T10o,  
T10p,  
T10q,  
T10r,  
T10s,  
T10t,  
T10u,  
T10aa,  
T10bh,  
T10bj

up to May 2003 ⇒ [page 14](#)

from June 2003 up to May 2004 ⇒ [page 15](#)

from June 2004 ⇒ [page 16](#)

**8 - Coupling station on left of A-pillar**

T6l,  
T6m,  
T6as,  
T10ab,  
T10ac,  
T10ad,  
T10ae,  
T10af,  
T10ag,  
T10ah,  
T10aj,  
T10bm

up to May 2004 ⇒ [page 17](#)

from June 2004 up to July 2006 ⇒ [page 18](#)

from August 2006 ⇒ [page 19](#)



**Note**

*The chamber marked as "vacant" can be fitted with a relay or a pin connector. See Fitting Locations "position of relays" and "interior single fuses"!*

### 1.1.1 Coupling station on electronics box (15-pin), up to May 2004

- ◆ In electronics box in engine compartment

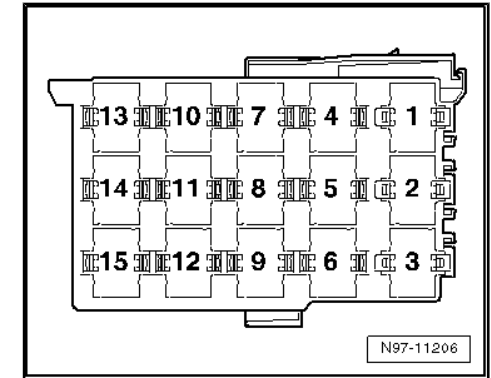
Pos. - Connector/designation

- 1 - 10-pin connector, black -T10n-
- 2 - 10-pin connector, brown -T10a-
- 3 - 10-pin connector, red -T10b-
- 4 - 10-pin connector, grey -T10g- <sup>1)</sup>
- 6-pin connector, grey -T6bk- <sup>2)</sup>
- 5 - 10-pin connector, light-pink -T10m-
- 6 - 10-pin connector, light-green -T10l-
- 7 - 6-pin connector, brown -T6q-
- 8 - 10-pin connector, white -T10e-
- 9 - 10-pin connector, yellow -T10c-
- 10 - 10-pin connector, blue -T10d-
- 11 - 10-pin connector, orange -T10h-
- 12 - 10-pin connector, green -T10f-
- 13 - 10-pin connector, black -T10-
- 14 - 10-pin connector, purple -T10k-
- 15 - 10-pin connector, dark brown -T10j-



#### Note

- ◆ <sup>1)</sup>applicable up to January 2004
- ◆ <sup>2)</sup>applicable from February 2004

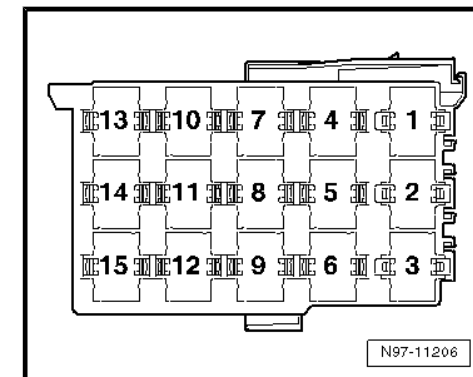


### 1.1.2 Coupling station on electronics box (15-pin), from June 2004

◆ In electronics box in engine compartment

Pos. - Connector/designation

- 1 - 10-pin connector, black -T10n-
- 2 - 10-pin connector, brown -T10a-
- 3 - 10-pin connector, red -T10b-
- 4 - 6-pin connector, grey -T6bk- <sup>1)</sup>
- vacant<sup>2)</sup>
- 5 - 6-pin connector, light-pink -T6bz- <sup>3)</sup>
- vacant<sup>4)</sup>
- 6 - 10-pin connector, light-green -T10l-
- 7 - 6-pin connector, brown -T6q-
- 8 - 10-pin connector, white -T10e-
- 9 - 10-pin connector, yellow -T10c-
- 10 - 10-pin connector, blue -T10d-
- 11 - 10-pin connector, orange -T10h-
- 12 - 10-pin connector, green -T10f-
- 13 - 10-pin connector, black -T10-
- 14 - 10-pin connector, purple -T10k-
- 15 - 10-pin connector, dark brown -T10j-





**Note**

- ◆ <sup>1)</sup>applicable up to May 2006
- ◆ <sup>2)</sup>applicable from June 2006
- ◆ <sup>3)</sup>applicable up to May 2007
- ◆ <sup>4)</sup>applicable from June 2007

### 1.1.3 Coupling station on right of A-pillar (3-pin), from March 2003

- ◆ On right A-pillar

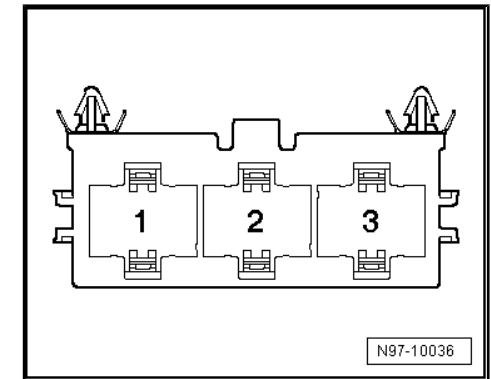
Pos. - Connector/designation

- 1 - 10-pin connector, black -T10ak-
- 2 - 6-pin connector, brown -T6k- <sup>1)</sup>
- vacant<sup>2)</sup>
- 10-pin connector, grey -T10bn- <sup>3)</sup>
- 3 - 10-pin connector, red -T10al-



**Note**

- ◆ <sup>1)</sup>applicable up to May 2006
- ◆ <sup>2)</sup>applicable from June 2006 up to October 2006
- ◆ <sup>3)</sup>applicable from November 2006



### 1.1.4 Coupling station on right of seat box (10-pin), up to May 2003

◆ On right in seat box

Pos. - Connector/designation

1 - 10-pin connector, white -T10az-

2 - 10-pin connector, red -T10ay-

3 - 6-pin connector, purple -T6x-

4 - 6-pin connector, brown -T6z-

5 - 10-pin connector, black -T10au-

6 - 10-pin connector, yellow -T10as-

7 - 6-pin connector, light-pink -T6w-

8 - 6-pin connector, red -T6v-

9 - 6-pin connector, blue -T6y-

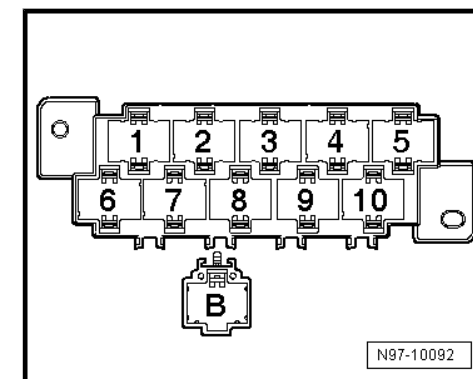
10 - 10-pin connector, brown -T10av-

A - Vacant

B - Vacant

C - Vacant

D - Vacant



### 1.1.5 Coupling station on right of seat box (10-pin), from June 2003

- ◆ On right in seat box

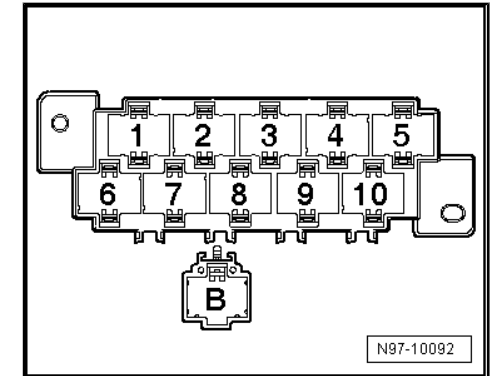
Pos. - Connector/designation

- 1 - 10-pin connector, white -T10az-
- 2 - 6-pin connector, red -T6v-
- 3 - 6-pin connector, purple -T6x-
- 4 - 6-pin connector, brown -T6z-
- 5 - 10-pin connector, black -T10au- <sup>1)</sup>
- 10-pin connector, grey -T10bk- <sup>2)</sup>
- 6 - 10-pin connector, yellow -T10as-
- 7 - 6-pin connector, light-pink -T6w-
- 8 - 10-pin connector, red -T10ay-
- 9 - 6-pin connector, blue -T6y-
- 10 - 10-pin connector, brown -T10av-
- A - Vacant
- B - 10-pin connector, green -T10be-
- C - Vacant
- D - Vacant



#### Note

- ◆ <sup>1)</sup> applicable up to December 2004
- ◆ <sup>2)</sup> applicable from January 2005





### 1.1.6 Coupling station on right of D-pillar (10-pin), up to October 2006

- ◆ On right D-pillar

Pos. - Connector/designation

1) - 6-pin connector, red -T6ar-

1) - 6-pin connector, blue -T6at-

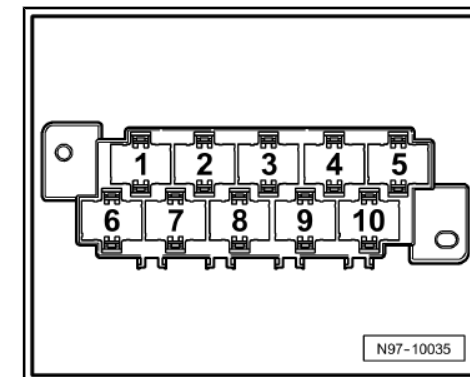
1) - 10-pin connector, brown -T10z- <sup>2)</sup>



**Note**

- ◆ <sup>1)</sup>Depends on level of equipment

- ◆ <sup>2)</sup>is dropped from January 2005

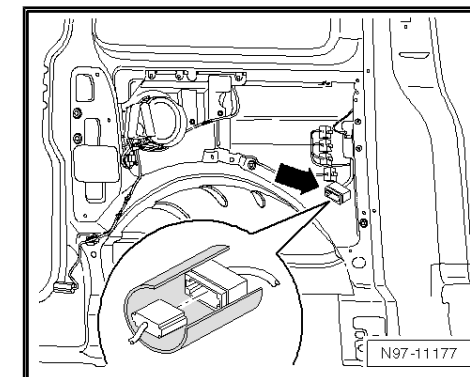


### 1.1.7 Coupling station on right of D-pillar, from November 2006

- ◆ On right D-pillar

Pos. - Connector/designation

Pfeil - 17-pin connector, black -T17d-



### 1.1.8 Coupling station on left of D-pillar (10-pin), up to May 2003

◆ On left D-pillar

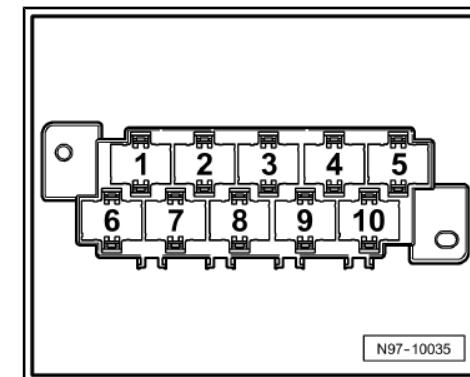
Pos. - Connector/designation

- 1) - 6-pin connector, black -T6n-
- 1) - 6-pin connector, red -T6o-
- 1) - 6-pin connector, brown -T6p-
- 1) - 6-pin connector, dark brown -T6af-
- 1) - 10-pin connector, blue -T10v-
- 1) - 10-pin connector, orange -T10w-
- 1) - 10-pin connector, purple -T10x-
- 1) - 10-pin connector, yellow -T10y-
- 1) - 10-pin connector, green -T10bd- <sup>2)</sup>



**Note**

<sup>1)</sup>Depends on level of equipment



### 1.1.9 Coupling station on left of D-pillar (10-pin), from June 2003 up to May 2004

- ◆ On left D-pillar

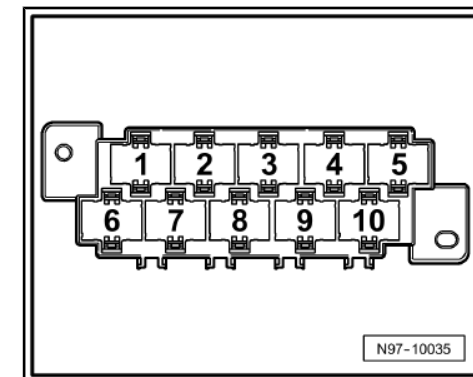
Pos. - Connector/designation

- 1) - 6-pin connector, black -T6n-
- 1) - 6-pin connector, red -T6o-
- 1) - 6-pin connector, brown -T6p-
- 1) - 6-pin connector, dark brown -T6af-
- 1) - 10-pin connector, blue -T10v-
- 1) - 10-pin connector, orange -T10w-
- 1) - 6-pin connector, grey -T6be-
- 1) - 6-pin connector, white -T6bf-
- 1) - 10-pin connector, yellow -T10y-
- 1) - 10-pin connector, green -T10bd- <sup>2)</sup>
- 1) - 6-pin connector, green -T6bo- <sup>3)</sup>



#### Note

- ◆ <sup>1)</sup>Depends on level of equipment
- ◆ <sup>2)</sup>applicable up to November 2003
- ◆ <sup>3)</sup>applicable from December 2003



### 1.1.10 Coupling station on left of D-pillar (10-pin), from June 2004 up to October 2006

- ◆ On left D-pillar

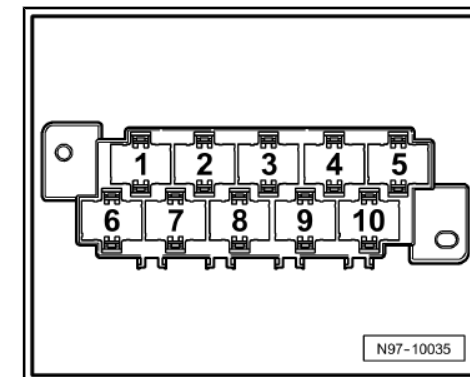
Pos. - Connector/designation

- 1) - 6-pin connector, black -T6n-
- 1) - 6-pin connector, red -T6o-
- 1) - 6-pin connector, brown -T6p-
- 1) - 10-pin connector, orange -T10w-
- 1) - 6-pin connector, grey -T6be-
- 1) - 6-pin connector, white -T6bf-
- 1) - 10-pin connector, yellow -T10y-
- 1) - 6-pin connector, green -T6bo- <sup>2)</sup>



#### Note

- ◆ <sup>1)</sup>Depends on equipment
- ◆ <sup>2)</sup>is dropped from January 2005



### 1.1.11 Coupling station on left of D-pillar, from November 2006

◆ On left D-pillar

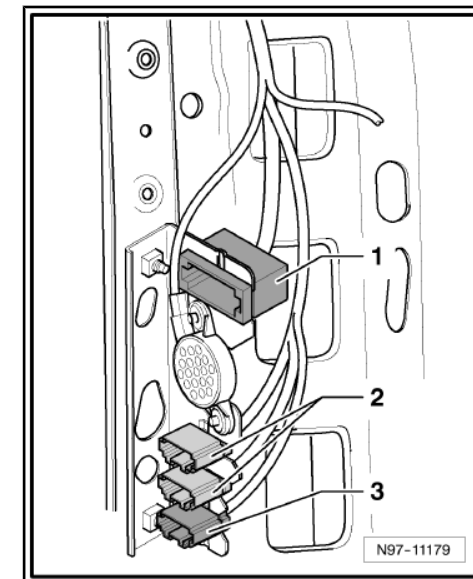
Pos. - Connector/designation

1 - 17-pin connector, black -T17c-

2 - 8-pin connector, black -T8af-

- 12-pin connector, black -T12v-

3 - 8-pin connector, black -T8ag-



### 1.1.12 Coupling station on left of seat box (10-pin), up to May 2003

◆ On left in seat box

Pos. - Connector/designation

1 - Vacant

2 - 10-pin connector, brown -T10s-

3 - 6-pin connector, red -T6j-

4 - 10-pin connector, blue -T10u-

5 - 10-pin connector, black -T10t-

6 - 10-pin connector, yellow -T10p-

7 - 10-pin connector, light-green -T10o-

8 - Vacant

9 - 6-pin connector, brown -T6g-

- 6-pin connector, purple -T6h-

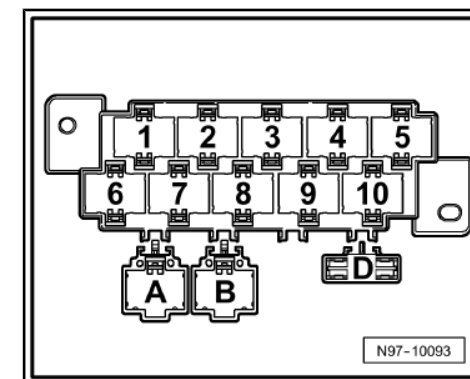
10 - 10-pin connector, grey -T10q-

A - 10-pin connector, dark brown -T10aa-

B - 10-pin connector, white -T10r-

C - Vacant

D - Vacant



### 1.1.13 Coupling station on left of seat box (10-pin), from June 2003 up to May 2004

◆ On left in seat box

Pos. - Connector/designation

1 - 10-pin connector, dark brown -T10aa-

2 - 10-pin connector, brown -T10s-

3 - 6-pin connector, red -T6j-

4 - 10-pin connector, blue -T10u-

- 6-pin connector, grey -T6bn- <sup>1)</sup>

5 - 10-pin connector, black -T10t-

6 - Vacant

7 - 10-pin connector, light-green -T10o-

8 - 10-pin connector, yellow -T10bj- <sup>1)</sup>

9 - 6-pin connector, brown -T6g-

- 6-pin connector, purple -T6h-

10 - 10-pin connector, grey -T10q-

A - Vacant

B - 10-pin connector, white -T10r-

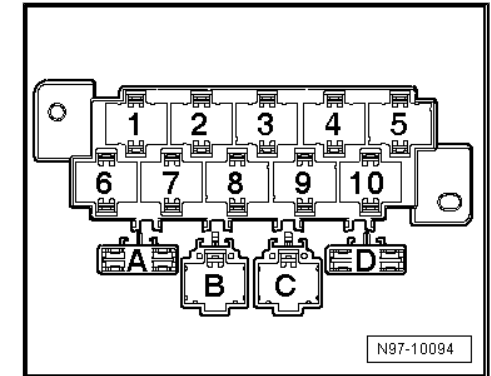
C - 10-pin connector, purple -T10bh- <sup>1)</sup>

D - Vacant



**Note**

<sup>1)</sup> for models with electric interface (UF1) only



### 1.1.14 Coupling station on left of seat box (10-pin), from June 2004

◆ On left in seat box

Pos. - Connector/designation

1 - 10-pin connector, dark brown -T10aa-

2 - 10-pin connector, brown -T10s-

3 - 6-pin connector, red -T6j-

4 - 6-pin connector, grey -T6bn- <sup>1)</sup>

5 - 10-pin connector, black -T10t-

6 - 10-pin connector, blue -T10u-

7 - 10-pin connector, light-green -T10o-

8 - 10-pin connector, yellow -T10bj- <sup>1)</sup>

9 - 6-pin connector, brown -T6g-

- 6-pin connector, purple -T6h-

10 - 10-pin connector, grey -T10q-

A - Vacant

B - 10-pin connector, white -T10r-

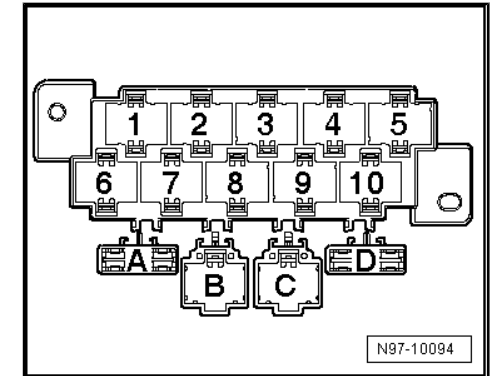
C - 10-pin connector, purple -T10bh- <sup>1)</sup>

D - Vacant



**Note**

<sup>1)</sup> for models with electric interface (UF1) only





### 1.1.15 Coupling station on left of A-pillar (10-pin), up to May 2004

◆ On left A-pillar

Pos. - Connector/designation nominal value

1 - 10-pin connector, red -T10ad-

2 - 6-pin connector, brown -T6I-

3 - 10-pin connector, green -T10ac-

4 - 10-pin connector, white -T10ab-

5 - 10-pin connector, purple -T10ah-

6 - 10-pin connector, black -T10ae-

7 - 10-pin connector, brown -T10ag-

- 10-pin connector, light-green -T10aj- <sup>1)</sup>

8 - 6-pin connector, red -T6m-

9 - 10-pin connector, blue -T10af-

10 - 6-pin connector, yellow -T6as- <sup>2)</sup>

A - Vacant

B - Vacant

C - Vacant

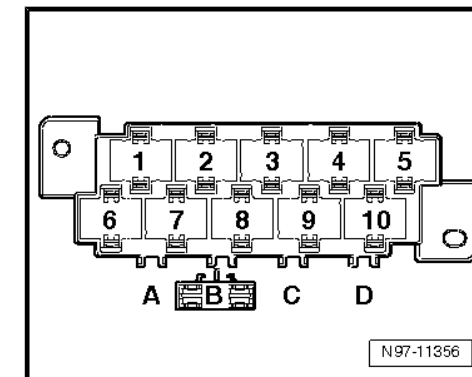
D - Vacant



#### Note

◆ <sup>1)</sup>is dropped from February 2004

◆ <sup>2)</sup>is dropped from May 2004



### 1.1.16 Coupling station on left of A-pillar (10-pin), from June 2004 up to July 2006

◆ On left A-pillar

Pos. - Connector/designation

1 - 10-pin connector, red -T10ad-

2 - 6-pin connector, brown -T6I- <sup>1)</sup>

- vacant<sup>2)</sup>

3 - 10-pin connector, green -T10ac-

4 - 10-pin connector, white -T10ab-

5 - 10-pin connector, purple -T10ah-

6 - 10-pin connector, black -T10ae-

7 - 10-pin connector, brown -T10ag-

8 - 6-pin connector, red -T6m-

9 - 10-pin connector, blue -T10af-

10 - Vacant

A - Vacant

B - Vacant

C - Vacant

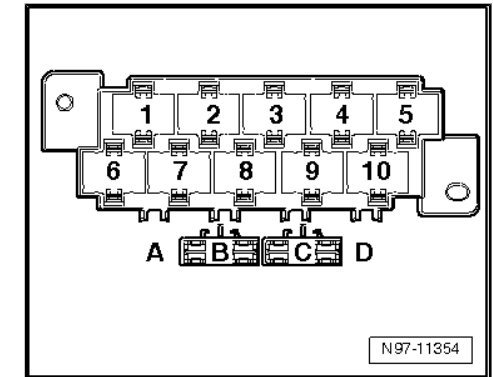
D - Vacant



#### Note

◆ <sup>1)</sup>applicable up to May 2006

◆ <sup>2)</sup>applicable from June 2006



### 1.1.17 Coupling station on left of A-pillar (10-pin), from August 2006

◆ On left A-pillar

Pos. - Connector/designation

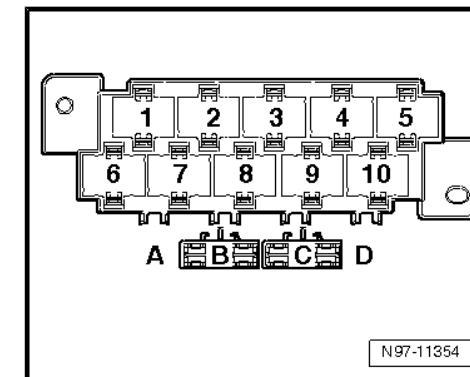
- 1 - 10-pin connector, red -T10ad-
- 2 - 10-pin connector, grey -T10bm-
- 3 - 10-pin connector, green -T10ac-
- 4 - 10-pin connector, white -T10ab-
- 5 - 10-pin connector, purple -T10ah-
- 6 - 10-pin connector, black -T10ae-
- 7 - 10-pin connector, brown -T10ag-
- 8 - 6-pin connector, red -T6m-
- 9 - 10-pin connector, blue -T10af-
- 10 - Vacant

A - Vacant

B - Vacant

C - Vacant

D - Vacant



### 1.1.18 Coupling station near treble tone horn/ bass tone horn, from March 2003

- ◆ near treble tone horn/bass tone horn

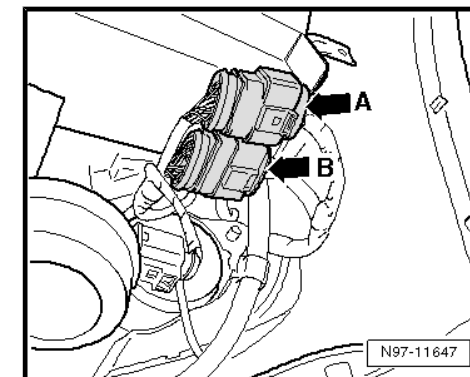
Pos. - Connector/designation

- 1) - 8-pin connector -T8- <sup>2)</sup>
- 1) - 14-pin connector -T14- <sup>2)</sup>
- 1) - 8-pin connector -T8ae- <sup>3)</sup>
- 1) - 10-pin connector -T10bl- <sup>3)</sup>



#### Note

- ◆ *Location in Current Flow Diagram designated as near headlight*
- ◆ *<sup>1)</sup>Position is depends on equipment (Item A or B)*
- ◆ *<sup>2)</sup>applicable up to December 2004*
- ◆ *<sup>3)</sup>applicable from January 2005*



## 1 Code table

### 1.1 ABS control unit with EDL

#### 1 - ABS control unit with EDL

##### - Code table

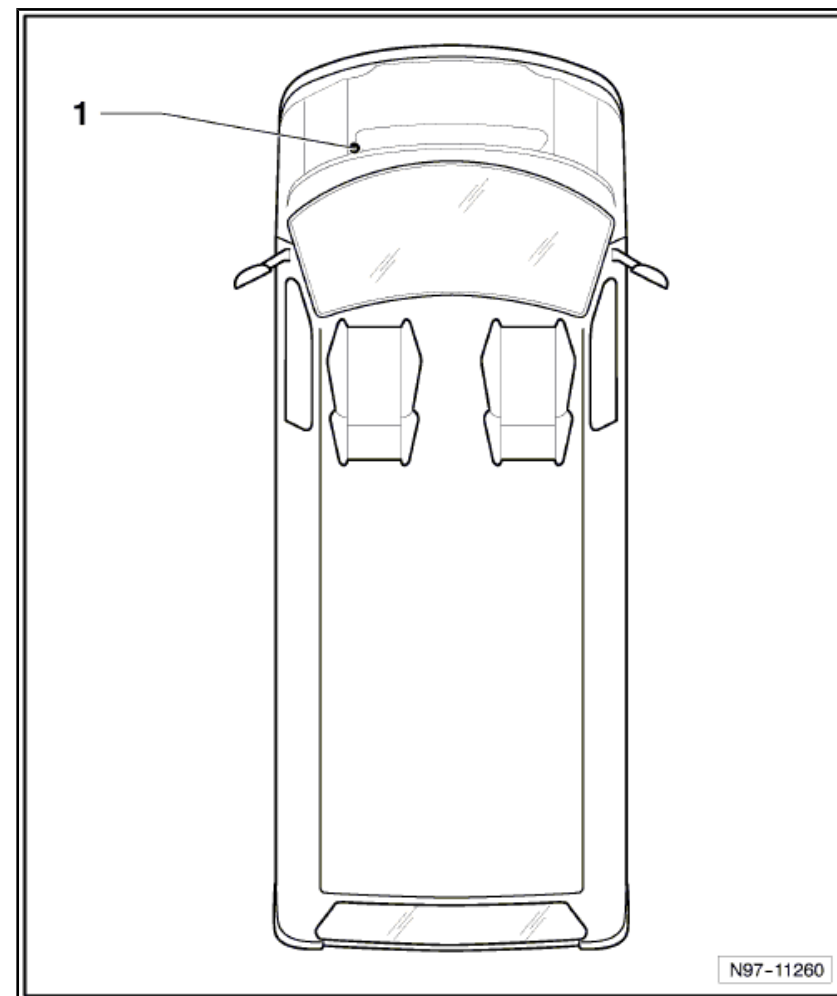
☐ from March 2003 ⇒ [page 2](#)

##### - Code table

☐ from June 2006 ⇒ [page 3](#)

##### - Code table

☐ from June 2007 ⇒ [page 6](#)



## 1.2 Code table, from March 2003

### 1.2.1 The coding of ABS with EDL control unit (J104) is performed via a wiring bridges in accordance with the respective equipment installed.

Equipment variants	Bridge 1		Bridge 2	
	From pin	To pin	From pin	To pin
ABS/EDL, 4-Motion, short wheelbase, closed body	T47/38	T47/14	T47/40	T47/12
ABS/EDL, 4-Motion, short wheelbase, open body	T47/38	T47/14	T47/40	T47/8
ABS/EDL, 4-Motion, long wheelbase, closed body	T47/38	T47/14	T47/40	T47/10
ABS/EDL, 4-Motion, long wheelbase, open body	T47/38 <sup>1)</sup>	T47/12 <sup>1)</sup>	T47/40	T47/10
ESP, 4-Motion, short wheelbase	T47/38	T47/10	T47/40	T47/8
ESP, 4-Motion, long wheelbase	T47/38	T47/10	T47/40	T47/14
ESP, short wheelbase	T47/9	T47/10	T47/40	T47/8
ESP, long wheelbase	T47/9	T47/10	T47/40	T47/14
TCS, short wheelbase, closed body	T47/9	T47/14	T47/40	T47/12
TCS, short wheelbase, open body	T47/9	T47/14	T47/40	T47/8
TCS, long wheelbase, closed body	T47/9	T47/14	T47/40	T47/10
TCS, long wheelbase, open body	T47/9	T47/12	T47/40	T47/10



#### Notes:

- ◆ *Note:*
- ◆ <sup>1)</sup> is dropped from September 2004

### 1.2.2 For colour and cross section of wiring see => Current Flow Diagram, anti-lock brake system (ABS)

**1.3 Code table, from June 2006**

**1.3.1 The coding of ABS control unit -J104- is performed via a wiring bridges in accordance with the respective equipment installed.**

**1.3.2 For colour and cross section of wiring ⇒ Current Flow Diagram, anti-lock brake system (ABS)**

**1.3.3 ABS control unit -J104-, with/ without traction control system (TCS), with/ without four-wheel drive (4-Motion)**

Equipment variants	Bridge 1		Bridge 2	
	From pin	To pin	From pin	To pin
ABS without TCS, 4-Motion, open body	T47/6	T47/14	T47/5	T47/7
ABS without TCS, 4-Motion, closed body	T47/6	T47/11	T47/5	T47/9
ABS with TCS, open body	T47/15	T47/14	T47/5	T47/7
ABS with TCS, closed body	T47/15	T47/11	T47/5	T47/9

**1.3.4 ABS control unit -J104-, with electronic stability program (ESP) and four-wheel drive (4-Motion)**

Equipment variants	Bridge 1		Bridge 2	
	From pin	To pin	From pin	To pin
ABS with ESP, short wheelbase, open body	T47/20	T47/14	T47/28	T47/11
ABS with ESP, long wheelbase, open body	T47/20	T47/14	T47/28	T47/9
ABS with ESP, short wheelbase, panel van	T47/20	T47/9	T47/28	T47/11
ABS with ESP, long wheelbase, panel van	T47/20	T47/7	T47/28	T47/14
ABS with ESP, short wheelbase, motor car-T5, multivan, combi	T47/20	T47/9	T47/28	T47/7
ABS with ESP, long wheelbase, motor car-T5, combi	T47/20	T47/9	T47/28	T47/14
ABS with ESP, short wheelbase, combi, MHD <sup>3)</sup>	T47/20	T47/9	T47/28	T47/11
ABS with ESP, long wheelbase, combi, MHD <sup>3)</sup>	T47/20	T47/7	T47/28	T47/14
ABS with ESP, long wheelbase, combi, HD <sup>3)</sup>	T47/20	T47/7	T47/28	T47/9
ABS with ESP, short wheelbase, camper, HD <sup>2)</sup> , <sup>4)</sup>	T47/20	T47/7	T47/28	T47/11
ABS with ESP, short wheelbase, camper, FD <sup>1)</sup>	T47/20	T47/9	T47/28	T47/11


**Notes:**

- ◆ *Note:*
- ◆ <sup>1)</sup> *FD - folding fabric sunroof*
- ◆ <sup>2)</sup> *HD - high roof*
- ◆ <sup>3)</sup> *MHD - middle hight roof*
- ◆ <sup>4)</sup> *not assigned at the moment*



**1.3.5 ABS control unit -J104-, with electronic stability program (ESP), without four-wheel drive (4-Motion)**

Equipment variants	Bridge 1		Bridge 2	
	From pin	To pin	From pin	To pin
ABS with ESP, short wheelbase, open body	T47/25	T47/14	T47/28	T47/11
ABS with ESP, long wheelbase, open body	T47/25	T47/14	T47/28	T47/9
ABS with ESP, short wheelbase, panel van	T47/25	T47/9	T47/28	T47/11
ABS with ESP, long wheelbase, panel van	T47/25	T47/7	T47/28	T47/14
ABS with ESP, short wheelbase, motor car-T5, multivan, combi	T47/25	T47/9	T47/28	T47/7
ABS with ESP, long wheelbase, motor car-T5, combi	T47/25	T47/9	T47/28	T47/14
ABS with ESP, short wheelbase, combi, MHD <sup>3)</sup>	T47/25	T47/9	T47/28	T47/11
ABS with ESP, long wheelbase, combi, MHD <sup>3)</sup>	T47/25	T47/7	T47/28	T47/14
ABS with ESP, long wheelbase, combi, HD <sup>3)</sup>	T47/25	T47/7	T47/28	T47/9
ABS with ESP, short wheelbase, combi, camper, HD <sup>2)</sup>	T47/25	T47/7	T47/28	T47/11
ABS with ESP, short wheelbase, camper, FD <sup>1)</sup>	T47/25	T47/9	T47/28	T47/11


**Notes:**

- ◆ *Note:*
- ◆ <sup>1)</sup> *FD - folding fabric sunroof*
- ◆ <sup>2)</sup> *HD - high roof*
- ◆ <sup>3)</sup> *MHD - middle hight roof*

**1.4 Code table, from June 2007**

**1.4.1** The coding of ABS control unit -J104- is performed via a wiring bridges in accordance with the respective equipment installed.

**1.4.2** For colour and cross section of wiring ⇒ Current Flow Diagram, anti-lock brake system (ABS)

**1.4.3** ABS control unit -J104- (1AC), without traction control system (TCS), with four-wheel drive (4 Motion)

Equipment variants	Bridge 1		Bridge 2	
	From pin	To pin	From pin	To pin
ABS without TCS, 4 Motion, open body	T47/6	T47/14	T47/5	T47/7
ABS without TCS, 4 Motion, closed body	T47/6	T47/11	T47/5	T47/9

**1.4.4** ABS control unit -J104- (1AR), with traction control system (TCS), without four-wheel drive (4 Motion)

Equipment variants	Bridge 1		Bridge 2	
	T47/15	T47/14	T47/5	T47/7
ABS with TCS, open body	T47/15	T47/11	T47/5	T47/9
ABS with TCS, closed body	T47/15	T47/11	T47/5	T47/9

**1.4.5 ABS control unit -J104- (1AK), with electronic stability program (ESP) and four-wheel drive (4-Motion)**

Equipment variants	Bridge 1		Bridge 2	
	From pin	To pin	From pin	To pin
ABS with ESP, short wheelbase, open body	T47/20	T47/14	T47/28	T47/11
ABS with ESP, long wheelbase, open body	T47/20	T47/14	T47/28	T47/9
ABS with ESP, short wheelbase, panel van	T47/20	T47/9	T47/28	T47/11
ABS with ESP, long wheelbase, panel van	T47/20	T47/7	T47/28	T47/14
ABS with ESP, short wheelbase, motor car-T5, multivan, combi	T47/20	T47/9	T47/28	T47/7
ABS with ESP, long wheelbase, motor car-T5, combi	T47/20	T47/9	T47/28	T47/14
ABS with ESP, short wheelbase, combi, MHD <sup>3)</sup>	T47/20	T47/9	T47/28	T47/11
ABS with ESP, long wheelbase, combi, MHD <sup>3)</sup>	T47/20	T47/7	T47/28	T47/14
ABS with ESP, long wheelbase, combi, HD <sup>3)</sup>	T47/20	T47/7	T47/28	T47/9
ABS with ESP, short wheelbase, camper, HD <sup>2)</sup> , <sup>4)</sup>	T47/20	T47/7	T47/28	T47/11
ABS with ESP, short wheelbase, camper, FD <sup>1)</sup>	T47/20	T47/9	T47/28	T47/11


**Notes:**

- ◆ <sup>1)</sup> FD = folding fabric sunroof
- ◆ <sup>2)</sup> HD = high roof
- ◆ <sup>3)</sup> MHD = middle hight roof
- ◆ <sup>4)</sup> not assigned at the moment

**1.4.6 ABS control unit -J104- (1AK), with electronic stability program (ESP), without four-wheel drive (4-Motion)**

Equipment variants	Bridge 1		Bridge 2	
	From pin	To pin	From pin	To pin
ABS with ESP, short wheelbase, open body	T47/25	T47/14	T47/28	T47/11
ABS with ESP, long wheelbase, open body	T47/25	T47/14	T47/28	T47/9
ABS with ESP, short wheelbase, panel van	T47/25	T47/9	T47/28	T47/11
ABS with ESP, long wheelbase, panel van	T47/25	T47/7	T47/28	T47/14
ABS with ESP, short wheelbase, motor car-T5, multivan, combi	T47/25	T47/9	T47/28	T47/7
ABS with ESP, long wheelbase, motor car-T5, multivan, combi	T47/25	T47/9	T47/28	T47/14
ABS with ESP, short wheelbase, combi, MHD <sup>3)</sup>	T47/25	T47/9	T47/28	T47/11
ABS with ESP, long wheelbase, combi, MHD <sup>3)</sup>	T47/25	T47/7	T47/28	T47/14
ABS with ESP, long wheelbase, combi, HD <sup>2)</sup>	T47/25	T47/7	T47/28	T47/9
ABS with ESP, short wheelbase, camper, HD <sup>2)</sup>	T47/25	T47/7	T47/28	T47/11
ABS with ESP, short wheelbase, camper, FD <sup>1)</sup>	T47/25	T47/9	T47/28	T47/11


**Notes:**

- ◆ <sup>1)</sup> FD = folding fabric sunroof
- ◆ <sup>2)</sup> HD = high roof
- ◆ <sup>3)</sup> MHD = middle hight roof

# 1 Camper

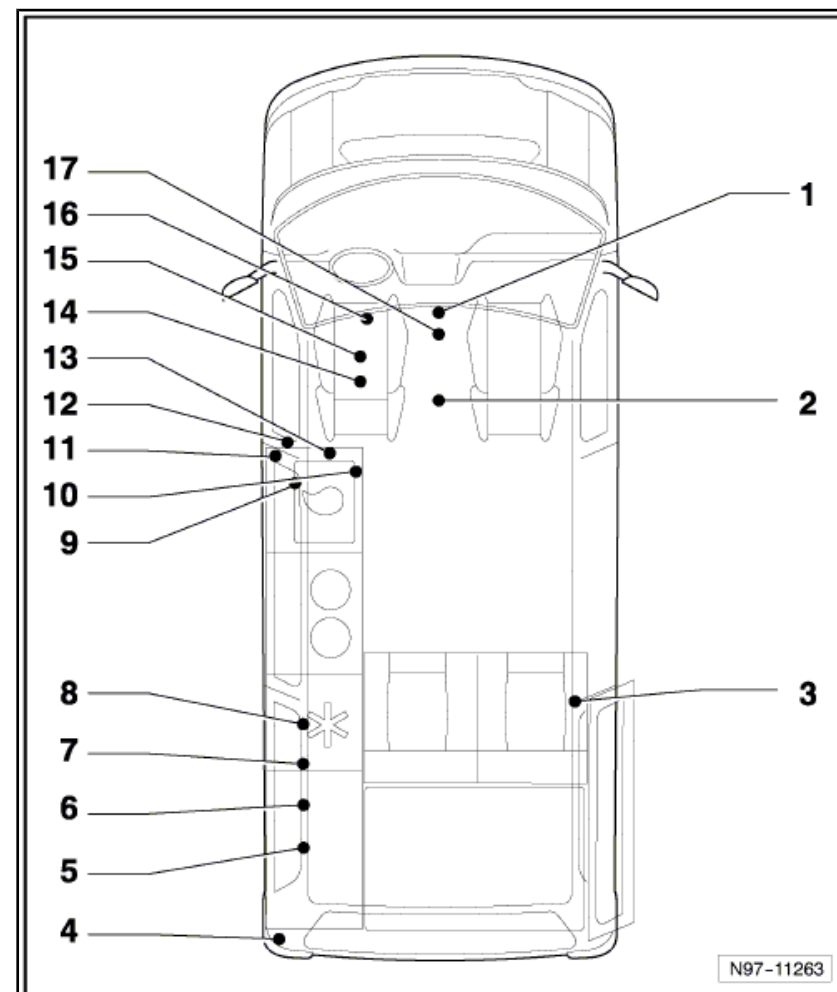
## 1.1 Camper

### 1.1.1 from February 2004



Note:

◆ See allocation position on the following pages!



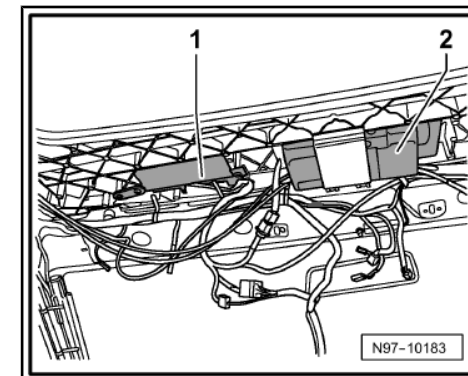
No.	Function/component	Location	Figure on page
1	- V118 - Convertible roof actuation hydraulic pump	- Front of roof	- <a href="#">⇒ page 4</a>
2	- T2ac - 2-pin connector, black	- Between the front seats	- <a href="#">⇒ page 4</a>
3	- E265 - Rear Climatronic operating and display unit	- Rear right of roof	- <a href="#">⇒ page 5</a>
4	- 653 - Earth point, left D-pillar - 668 - Earth point 2, left D-pillar	- Left D-pillar	- <a href="#">⇒ page 6</a>
5	- S59 - 220 V automatic personnel protection circuit breaker	- Fitted kitchen	- <a href="#">⇒ page 5</a>
6	- 721 - Earth point 1 for special constructions	- Fitted kitchen	- <a href="#">⇒ page 8</a> and <a href="#">⇒ page 9</a>
7	- N162 - Battery charge control measuring resistor - 722 - Earth point 2 for special constructions	- Fitted kitchen	- <a href="#">⇒ page 8</a> and <a href="#">⇒ page 9</a>
8	- A11 - Onboard supply charger unit	- Fitted kitchen	- <a href="#">⇒ page 7</a>
9	- T1b - Single connector, black - T17b - 17-pin connector, black	- Fitted kitchen	- <a href="#">⇒ page 8</a> and <a href="#">⇒ page 9</a>
10	- 723 - Earth point 3 for special constructions	- Fitted kitchen	- <a href="#">⇒ page 8</a> and <a href="#">⇒ page 9</a>
11	- 724 - Earth point 4 for special constructions	- Fitted kitchen	- <a href="#">⇒ page 8</a> and <a href="#">⇒ page 9</a>
12	- U13 - Transformer with socket, 12 V-230 V	- On left B-pillar, behind the trim	- <a href="#">⇒ page 17</a>
13	- 725 - Earth point 5 for special constructions	- Fitted kitchen	- <a href="#">⇒ page 8</a> and <a href="#">⇒ page 9</a>

No.	Function/component	Location	Figure on page
14	- N162 - Battery charge control measuring resistor	- Driver seat box (observe position 7)	- <a href="#">⇒ page 13</a>
	- S206 - Fuse 3 (30)	- Coupling station on left of seat box	- <a href="#">⇒ page 16</a>
	- J713 - Second battery charging circuit relay	- Driver seat box	- <a href="#">⇒ page 13</a>
		- Relay carrier 8-pin	- <a href="#">⇒ page 15</a>
	- S47 - Reading light and interior light fuse - S60 - Charging unit fuse - S63 - Display unit fuse - S67 - Convertible roof actuation fuse - S340 - Cool box fuse - S341 - Water pump fuse	- 6-pin additional fuse plate - 8-pin relay carrier, left seat box	- <a href="#">⇒ page 14</a> - <a href="#">⇒ page 15</a>
	- S65-2nd battery fuse	- 8-pin relay carrier, left seat box	- <a href="#">⇒ page 15</a>
15	- 34 - Earth point, under driver seat	- Driver seat box	- <a href="#">⇒ page 8</a>
16	- J768 - Roof hydraulics control unit	- Front of roof	- <a href="#">⇒ page 4</a>
17	- E153 - Operating and display unit for camping equipment	- Front of roof	- <a href="#">⇒ page 7</a>

### 1.1.2 Roof hydraulics control unit -J768-

◆ On front of roof, behind the headliner

⇒ -Position 1-



### 1.1.3 Convertible roof actuation hydraulic pump -V118-

◆ On front of roof, behind the headliner

⇒ -Position 2-

### 1.1.4 Pin connector -T2ac-

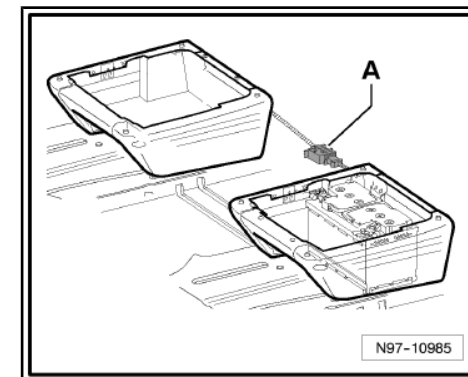
◆ Between the front seats

⇒ -Position A-



**Note:**

◆ is dropped from September 2005

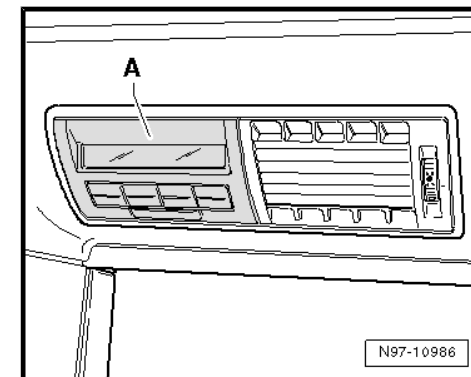




### 1.1.5 Rear Climatronic operating and display unit -E265-

◆ on rear right of roof

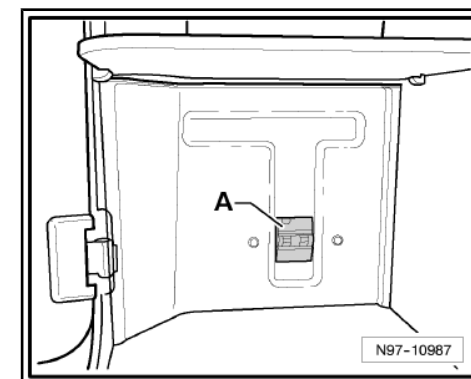
⇒ -Position A-



### 1.1.6 220 V automatic personnel protection circuit breaker -S59-

◆ In rear cupboard, in middle shelf of kitchenette

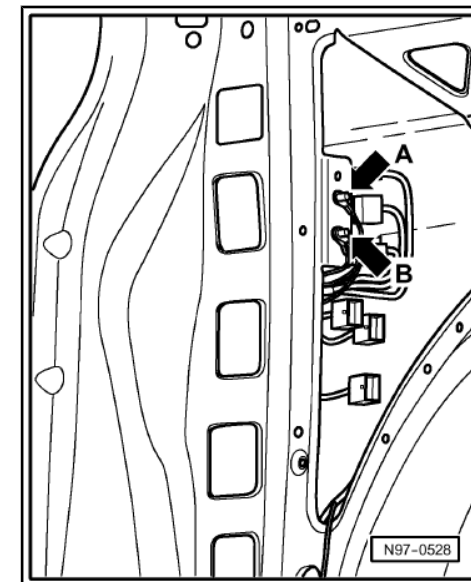
⇒ -Position A-



### 1.1.7 Earth point, in luggage compartment

653 - Earth point, left D-pillar ⇒ -arrow A-

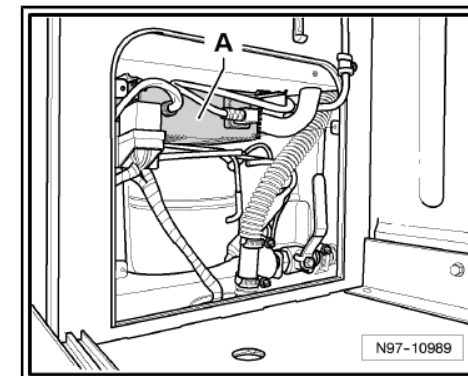
668 - Earth point -2-, left D-pillar ⇒ -arrow B-



### 1.1.8 Onboard supply charger unit -A11-

◆ Between refrigerator and compressor

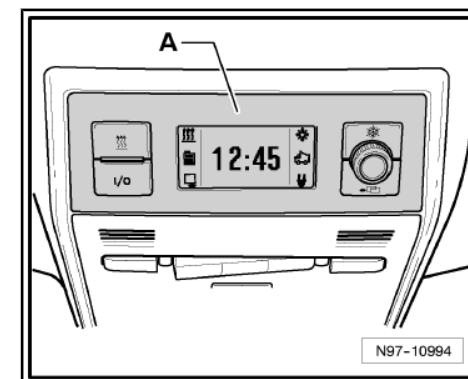
⇒ -Position A-



### 1.1.9 Operating and display unit for camping equipment -E153-

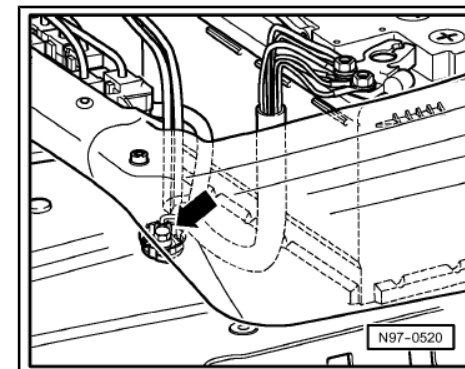
◆ In Roof area of cab

⇒ -Position A-



### 1.1.10 Earth point, on left in seat box

34 - Earth point under driver seat ⇒ -arrow-

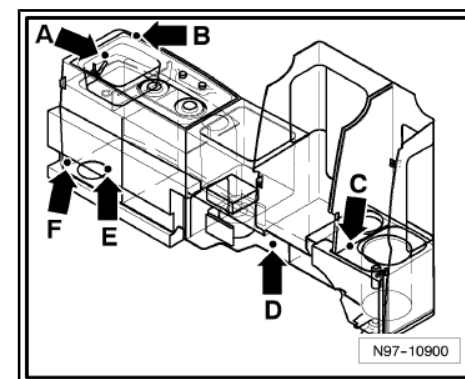


## 1.2 Overview of pin connectors and earth points in fitted kitchen



Notes:

- ◆ ◆ *View of kitchenette from rear*
- ◆ ◆ *See allocation position on the following pages!*

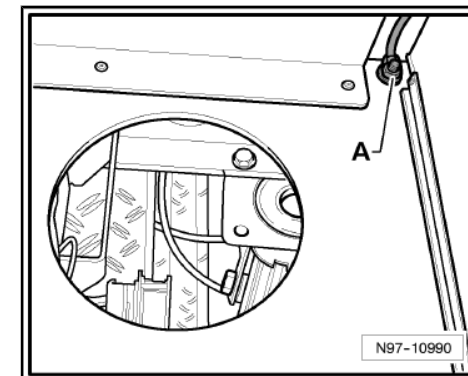


### 1.3 Overview

No.	Function/component	Location	Figure on page
A	- 725 - Earth point 5 for special constructions	- under sink	- <a href="#">⇒ page 10</a>
B	- 724 - Earth point 4 for special constructions	- under sink	- <a href="#">⇒ page 10</a>
C	- 721 - Earth point 1 for special constructions	- next to automatic personnel protection circuit breaker	- <a href="#">⇒ page 11</a>
D	- N162 - Battery charge control measuring resistor - 722 - Earth point 2 for special constructions	- next to refrigerator	- <a href="#">⇒ page 11</a>
E	- T1b - Single connector, black - T17b - 17-pin connector, black	- lower part of front cupboard	- <a href="#">⇒ page 12</a>
F	- 723 - Earth point 3 for special constructions	- lower part of front cupboard	- <a href="#">⇒ page 10</a>

### 1.3.1 Earth points, in fitted kitchen

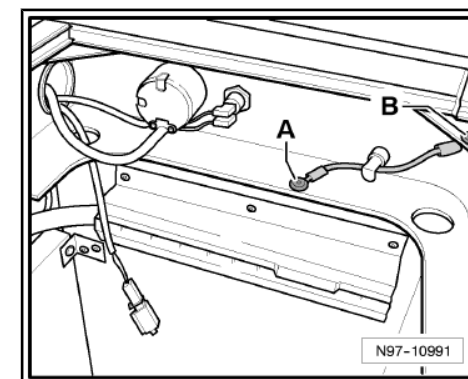
723 - Earth point 3 for special constructions ⇒ -Position A-



### 1.3.2

724 - Earth point 4 for special constructions ⇒ -Position B-

725 - Earth point 5 for special constructions ⇒ -Position A-



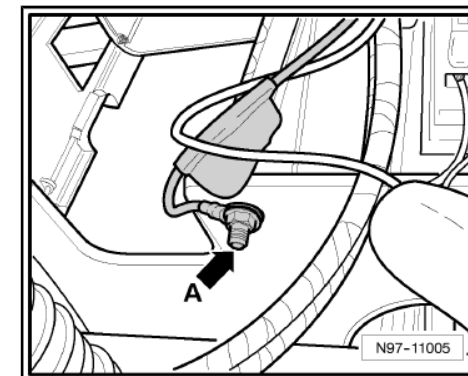
### 1.3.3

721 - Earth point 1 for special constructions ⇒ -arrow A-



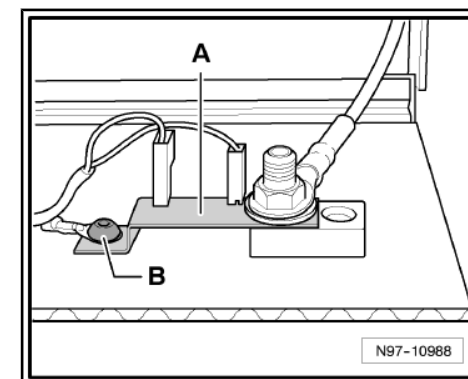
**Note:**

◆ *View of kitchenette from rear*



### 1.3.4

722 - Earth point 3 for special constructions ⇒ -Position B-



### 1.3.5 Battery charge control measuring resistor - N162

⇒ -Position A-



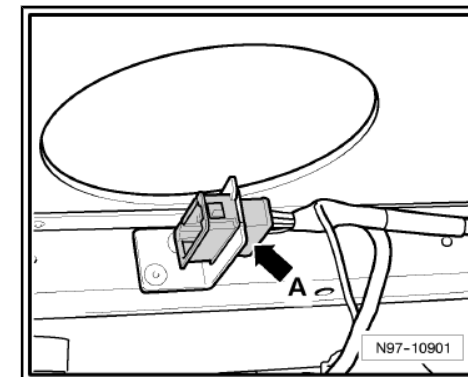
**Note:**

◆ *for models with battery for special vehicles only*

### 1.3.6 Pin connector -T1b-

**Note:**

Near pin connector T17b (without figure)



### 1.3.7 Pin connector -T17b-

⇒ -Arrow A-



**Note:**

◆ *View of kitchenette from bottom and rear*



### 1.3.8 Battery charge control measuring resistor -N162-

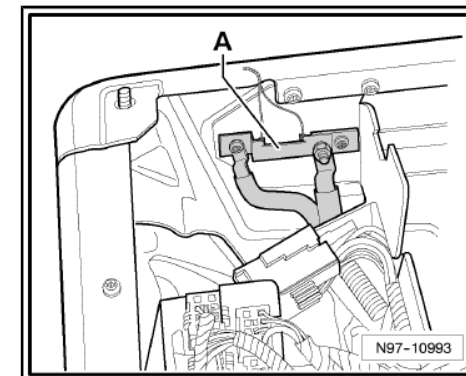
◆ in driver seat box

⇒ -Position A-



**Note:**

*for models without battery for special vehicles only*



### 1.3.9 Second battery charging circuit relay - J713-

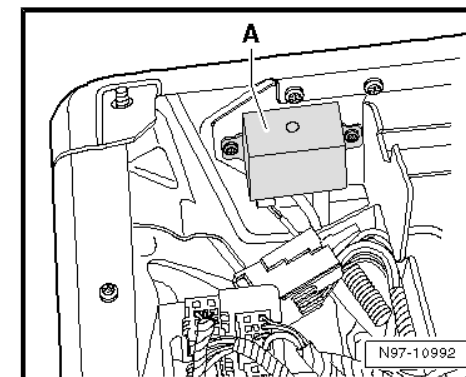
◆ in driver seat box

⇒ -Position A-



**Note:**

*for models with battery for special vehicles only*



### 1.3.10 Additional fuse plate (6-pin)

- ◆ On left in seat box

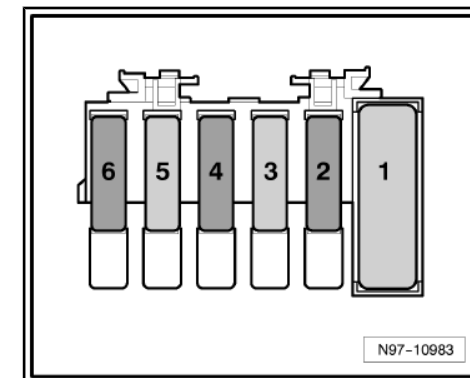
Pos. - Connector/designation nominal value

- 1 - S60 - Charging unit fuse <sup>1)</sup> 30 A
- 2 - S63 - Display unit fuse <sup>1)</sup> 5 A
- 3 - S67 - Convertible roof actuation fuse <sup>1)</sup> 10 A
- 4 - S47 - Reading light and interior light fuse <sup>1)</sup> 10 A
- 5 - S340 - Cool box fuse <sup>1)</sup> 10 A
- 6 - S341 - Water pump fuse <sup>1)</sup> 5 A



**Note:**

*<sup>1)</sup> applicable from February 2004 up to April 2004*



### 1.3.11 Relay carrier, left seat box (8-pin)

- ◆ On left in seat box

Pos. - Connector/designation nominal value

6 - J713 - Second battery charging circuit relay <sup>3)</sup> -

<sup>4)</sup> - S60 - Charging unit fuse <sup>1)</sup> 30 A

- S67 - Convertible roof actuation fuse <sup>1)</sup> 30 A

- S47 - Reading light and interior light fuse <sup>1)</sup> 10 A

<sup>4)</sup> - S340 - Cool box fuse <sup>1)</sup> 10 A

- S341 - Water pump fuse <sup>1)</sup> 5 A

- S63 - Display unit fuse <sup>1)</sup> 5 A

<sup>4)</sup> - S340 - Cool box fuse <sup>2)</sup> 10 A

- S341 - Water pump fuse <sup>2)</sup> 5 A

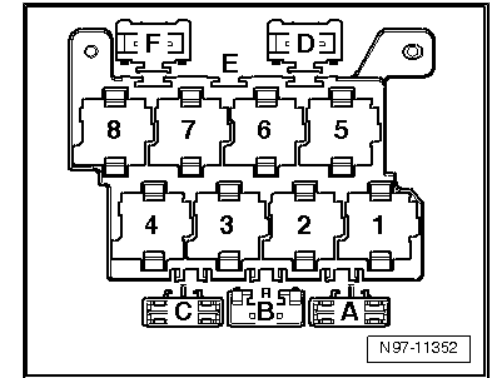
- S60 - Charging unit fuse <sup>2)</sup> 30 A

<sup>4)</sup> - S63 - Display unit fuse <sup>2)</sup> 5 A

- S67 - Convertible roof actuation fuse <sup>2)</sup> 30 A

- S47 - Reading light and interior light fuse <sup>2)</sup> 10 A

D - S65 - 2nd battery fuse <sup>3)</sup>, <sup>5)</sup> 80 A



#### Notes:

- ◆ <sup>1)</sup> applicable from June 2004
- ◆ <sup>2)</sup> applicable up to May 2004
- ◆ <sup>3)</sup> for models with second battery only
- ◆ <sup>4)</sup> position is depends on equipment
- ◆ <sup>5)</sup> for models with battery for special vehicles

### 1.3.12 Coupling station on left of seat box (10-pin)

◆ On left in seat box

Pos. - Connector/designation nominal value

A - S206 - Fuse 3 (30) <sup>1)</sup> 30 A

B - - vacant - -

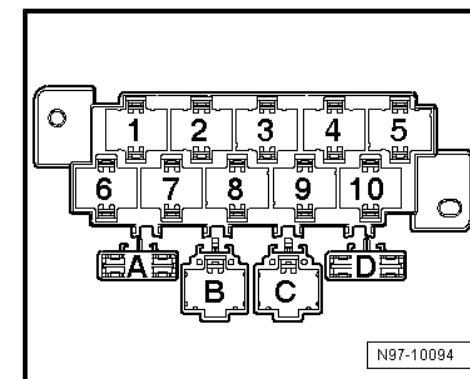
C - - vacant - -

D - S126-Auxiliary heater fuse - 40 A



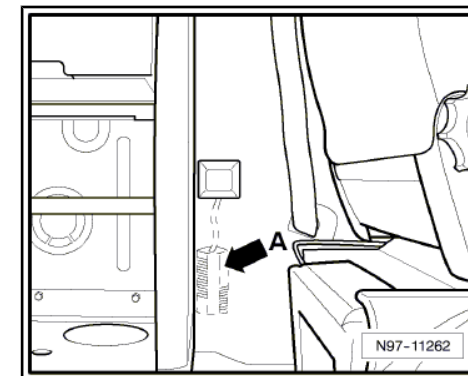
**Note:**

<sup>1)</sup> applicable from November 2007



**1.3.13 Transformer with socket, 12 V-230 V -  
U13-**

- ◆ On B-pillar, behind the trim



# 1 Multivan business

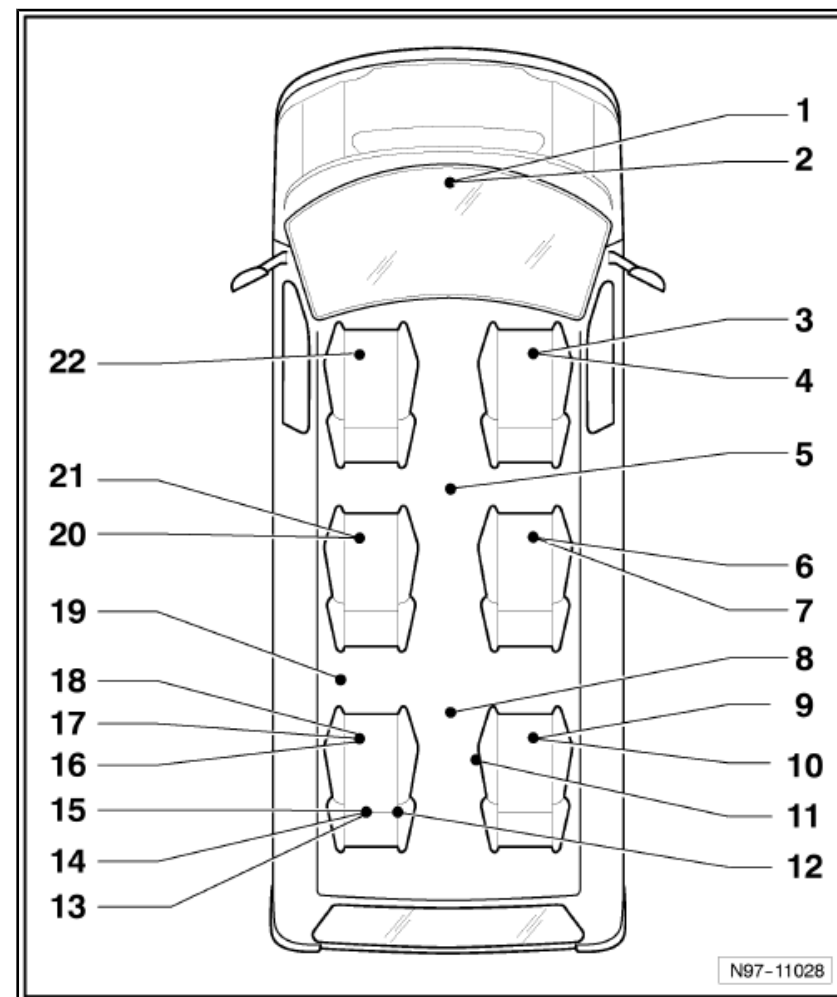
## 1.1 Multivan business

### 1.1.1 from August 2005



Note:

*See allocation position on the following pages!*



## 1.2 Allocation of positions:

No.	Function/component	Location	Figure on page
1	- J59 - X-contact relief relay	- Relay carrier 1 cockpit (8-pin)	- <a href="#">⇒ page 16</a>
2	- S300-Special vehicle fuse 10	- Relay carrier 2 cockpit (8-pin)	- <a href="#">⇒ page 17</a>
3	- J656-Voice amplification control unit - R12 - Amplifier - R41 - CD changer	- under the seat on front right	- <a href="#">⇒ page 8</a>
4	- J639 - Loudspeaker switch-off relay	- under the seat on front right	- Without figure
5	- J146 - Display unit control unit - R97 - Rear TV and video display unit - T3xa - 3-pin connector - V301 - Open and close display motor	- on roof	- <a href="#">⇒ page 6</a>
6	- J781 - Control unit for right seat, row 2	- under the right seat, row 2	- Without figure
7	- J780 - Control unit for heated right seat, row 2	- under the right seat, row 2	- Without figure
8	- R7 - DVD player	- between the seats, row 3	- <a href="#">⇒ page 7</a>
9	- J785 - Control unit for heated right seat, row 3	- under the right seat, row 3	- Without figure
10	- J650 - Multimedia control unit	- under the right seat, row 3	- <a href="#">⇒ page 5</a>

No.	Function/component	Location	Figure on page
11	- J784 - Control unit for right seat, row 3 - R78 - TV tuner	- under the right seat, row 3	- <a href="#">⇒ page 5</a>
12	- J141 - Switch illumination relay - J329 - Terminal 15 voltage supply relay - J701 - Terminal voltage supply relay 1 - J710 - Terminal voltage supply relay 2	- Relay carrier, row 3 (8-pin)	- <a href="#">⇒ page 16</a>
13	- SF... - Fuse on fuse holder F	- under the left seat, row 3	- ⇒ from page <a href="#">⇒ page 10</a>
14	- Wiring junction	- under the left seat, row 3	- <a href="#">⇒ page 10</a>
15	- T4xd - 4-pin connector - T42xa - 42-pin connector	- under the left seat, row 3	- <a href="#">⇒ page 9</a>
17	- J782 - Control unit for left seat, row 3	- under the left seat, row 3	- <a href="#">⇒ page 6</a>
16	- 49 - Earth point, near rear left seat	- under the left seat, row 3	- Without figure
18	- J783 - Control unit for heated left seat, row 3	- under the left seat, row 3	- Without figure
19	- R73 - Fax unit	- in rear left side panel	- <a href="#">⇒ page 7</a>
20	- J779 - Control unit for left seat, row 2	- under the left seat, row 2	- Without figure

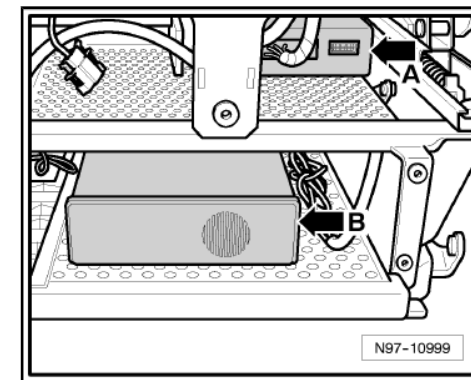


No.	Function/component	Location	Figure on page
21	- J158 - Control unit for heated left seat, row 2	- under the left seat, row 2	- Without figure
22	- J7-Battery isolation relay - S171 - Battery isolation relay fuse - S291-Special vehicle fuse 1 - S293-Special vehicle fuse 3 - S320 - Special vehicle fuse 30 - S321 - Special vehicle fuse 31 - S322 - Special vehicle fuse 32	- Relay carrier, left seat box (8-pin)	- <a href="#">⇒ page 17</a>
-	- 14 - Earth point, on gearbox - 34 - Earth point, under driver seat - 35 - Earth point, under front passenger seat - 624 - Earth point, starter battery	- ⇒ Fitting Locations for earth points	- Without figure
-	- J285 - Control unit in dash panel insert - J503 - Control unit with display for radio and navigation system - J519 - Onboard power supply control unit	- ⇒ Fitting Locations for control units	- Without figure
-	- SA1 - Fuse 1 on fuse holder A - SA3 - Fuse 3 on fuse holder A - SB19 - Fuse 19 on fuse holder B - SB20 - Fuse 20 on fuse holder B - SC17 - Fuse 17 on fuse holder C	- ⇒ Fitting Locations for position of fuses	- Without figure

### 1.3 Control units:

#### 1.3.1 Control unit for right seat, row 3 -J784-

⇒ -Arrow A-



#### 1.3.2 TV tuner -R78-

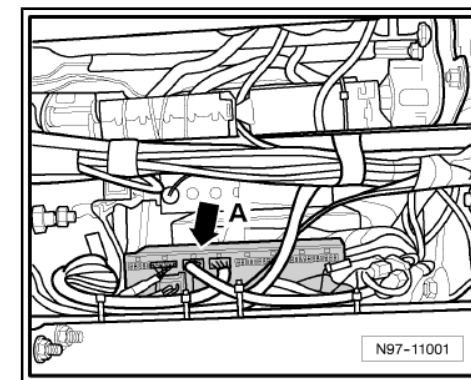
⇒ -Arrow B-

- ◆ Under the right seat, row 3
- ◆ Behind trim
- ◆ View from front

#### 1.3.3 Multimedia control unit -J650-

⇒ -Arrow A-

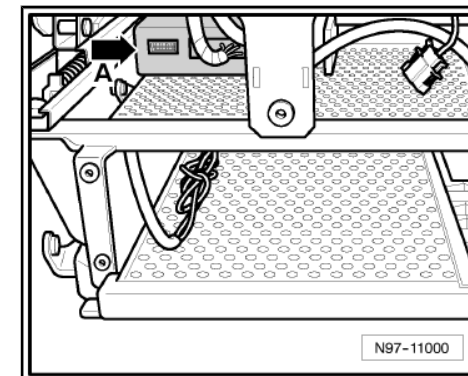
- ◆ Under the right seat, row 3
- ◆ Behind trim
- ◆ View from rear



### 1.3.4 Control unit for left seat, row 3 -J782-

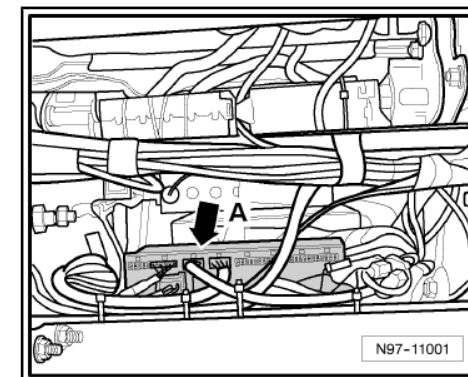
⇒ -Arrow A-

- ◆ Under the left seat, row 3
- ◆ Behind trim
- ◆ View from front



### 1.3.5 Display unit control unit -J146-

⇒ -Position 2-



### 1.3.6 Rear TV and video display unit -R97-

⇒ -Position 1-

### 1.3.7 Open and close display motor -V301-

⇒ -Position 3-

### 1.3.8 3-pin connector -T3xa-

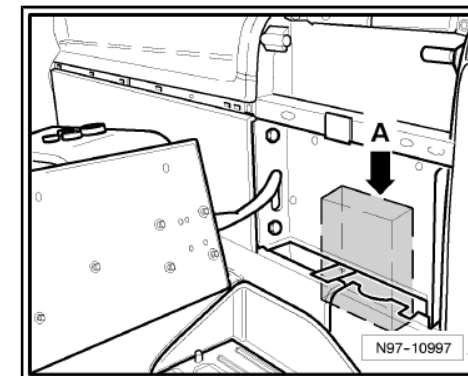
⇒ -Position 4-

- ◆ on roof

### 1.3.9 Fax unit -R73-

⇒ -Arrow A-

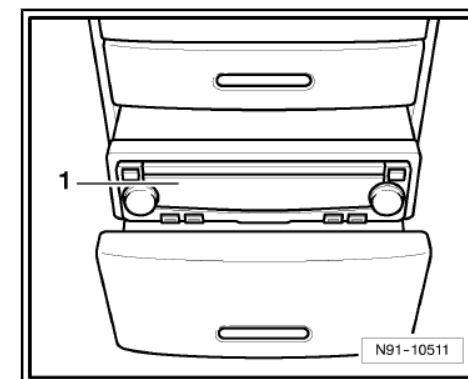
- ◆ in rear left side panel
- ◆ behind trim



### 1.3.10 DVD player -R7-

⇒ -Position 1-

- ◆ between the seats, row 3



Voice amplification control unit -J656-

⇒ -Position C-

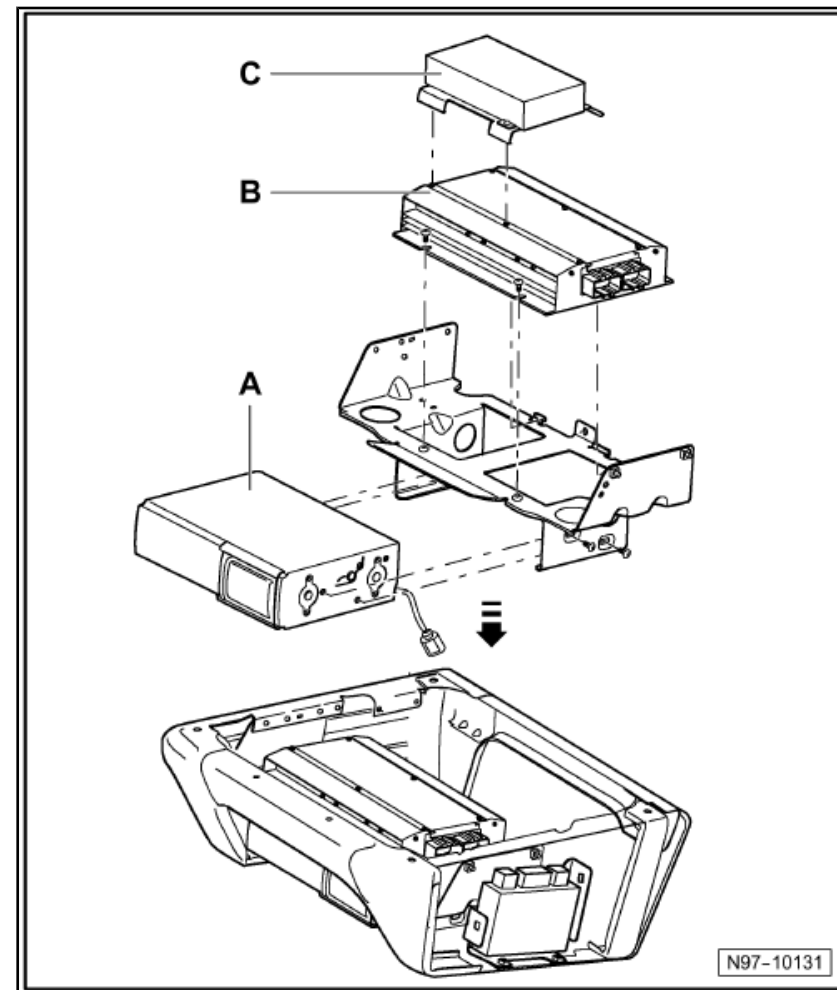
**Amplifier -R12-**

⇒ -Position B-

**CD changer -R41-**

⇒ -Position A-

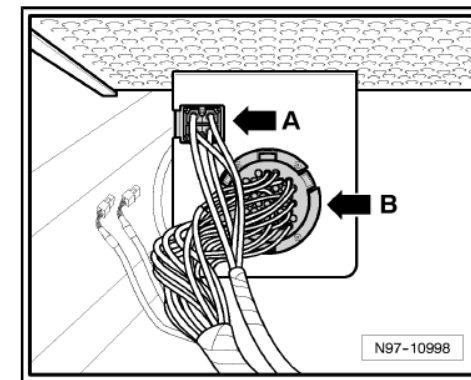
◆ under the seat on front right



## 1.4 Pin connectors

### 1.4.1 4-pin connector -T4xd-

⇒ -Arrow A-



### 1.4.2 42-pin connector -T42xa-

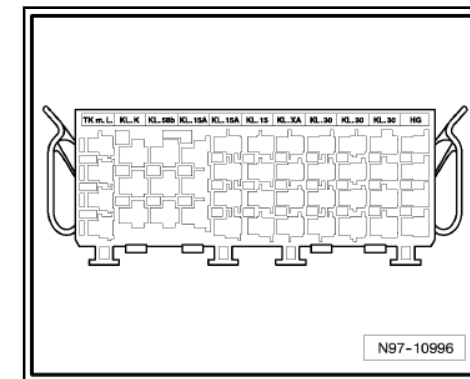
⇒ -Arrow B-

- ◆ Under the left seat, row 3
- ◆ Behind trim
- ◆ View from rear

## 1.5 Fuse holder and wiring junction:

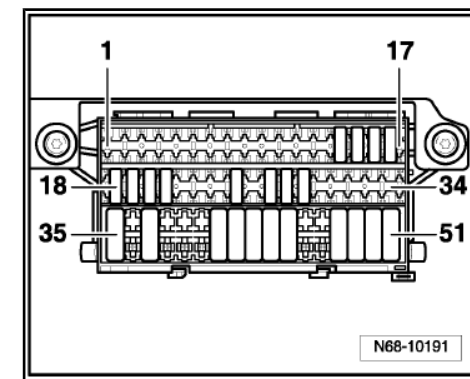
### 1.5.1 Wiring junction

- ◆ Under the left seat, row 3
- ◆ Behind trim
- ◆ View from rear



### 1.5.2 Fuse holder F for fuses -SF1- up to -SF51-

- ◆ Under the left seat, row 3
- ◆ Behind trim
- ◆ View from rear



**1.6 Allocation of fuses SF...:**

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
1	- SF1 - Fuse 1 on fuse holder F	-	- Vacant	-
2	- SF2 - Fuse 2 on fuse holder F	-	- Vacant	-
3	- SF3 - Fuse 3 on fuse holder F	-	- Vacant	-
4	- SF4 - Fuse 4 on fuse holder F	-	- Vacant	-
5	- SF5 - Fuse 5 on fuse holder F	-	- Vacant	-
6	- SF6 - Fuse 6 on fuse holder F	-	- Vacant	-
7	- SF7 - Fuse 7 on fuse holder F	-	- Vacant	-
8	- SF8 - Fuse 8 on fuse holder F	-	- Vacant	-
9	- SF9 - Fuse 9 on fuse holder F	-	- Vacant	-
10	- SF10 - Fuse 10 on fuse holder F	-	- Vacant	-
11	- SF11 - Fuse 11 on fuse holder F	-	- Vacant	-
12	- SF12 - Fuse 12 on fuse holder F	-	- Vacant	-
13	- SF13 - Fuse 13 on fuse holder F	-	- Vacant	-
14	- SF14 - Fuse 14 on fuse holder F	5 A	- R78 - TV tuner	87
15	- SF15 - Fuse 15 on fuse holder F	-	- Vacant	-



No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
16	- SF16 - Fuse 16 on fuse holder F	10 A	- J146 - Display unit control unit	87
17	- SF17 - Fuse 17 on fuse holder F	5 A	- J650 - Multimedia control unit	87
18	- SF18 - Fuse 18 on fuse holder F	10 A	- V242 - Rear air recirculation blower	30
19	- SF19 - Fuse 19 on fuse holder F	10 A	- R36 - Telephone transmitter and receiver unit	30
20	- SF20 - Fuse 20 on fuse holder F	-	- - Vacant	-
21	- SF21 - Fuse 21 on fuse holder F	10 A	- R73-Fax unit	30
22	- SF22 - Fuse 22 on fuse holder F	-	- - Vacant	-
23	- SF23 - Fuse 23 on fuse holder F	-	- - Vacant	-
24	- SF24 - Fuse 24 on fuse holder F	-	- - Vacant	-
25	- SF25 - Fuse 25 on fuse holder F	5 A	- R73-Fax unit	86s
26	- SF26 - Fuse 26 on fuse holder F	-	- - Vacant	-
27	- SF27 - Fuse 27 on fuse holder F	10 A	- E499 - Multimedia system operating unit 2	86s
28	- SF28 - Fuse 28 on fuse holder F	10 A	- E380 - Multimedia system operating unit	86s
29	- SF29 - Fuse 29 on fuse holder F	5 A	- J146 - Display unit control unit	86s
30	- SF30 - Fuse 30 on fuse holder F	-	- - Vacant	-

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
31	- SF31 - Fuse 31 on fuse holder F	-	- - Vacant	-
32	- SF32 - Fuse 32 on fuse holder F	-	- - Vacant	-
33	- SF33 - Fuse 33 on fuse holder F	-	- - Vacant	-
34	- SF34 - Fuse 34 on fuse holder F	-	- - Vacant	-
35	- SF35 - Fuse 35 on fuse holder F	10 A	- J698-Refrigerator box	30
36	- SF36 - Fuse 36 on fuse holder F	-	- - Vacant	-
37	- SF37 - Fuse 37 on fuse holder F	10 A	- J650 - Multimedia control unit	30
38	- SF38 - Fuse 38 on fuse holder F	-	- - Vacant	-
39	- SF39 - Fuse 39 on fuse holder F	-	- - Vacant	-
40	- SF40 - Fuse 40 on fuse holder F	-	- - Vacant	-
41	- SF41 - Fuse 41 on fuse holder F	10 A	- V250 - Folding table motor	86s
42	- SF42 - Fuse 42 on fuse holder F	15 A	- J782 - Control unit for left seat, row 3	86s
43	- SF43 - Fuse 43 on fuse holder F	15 A	- J784 - Control unit for right seat, row 3	86s

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
44	- SF44 - Fuse 44 on fuse holder F	15 A	<ul style="list-style-type: none"> <li>- E542 - Height adjustment button for lumbar support of left seat, row 2</li> <li>- E543 - Height adjustment button for front of left seat, row 2</li> <li>- E544 - Height adjustment button for rear of left seat, row 2</li> <li>- E545 - Head restraint adjustment button for left seat, row 2</li> <li>- E546 - Longitudinal adjustment button for left seat, row 2</li> <li>- E547 - Backrest adjustment button for left seat, row 2</li> <li>- E548 - Depth adjustment button for left seat, row 2</li> <li>- J779 - Control unit for left seat, row 2</li> </ul>	86s
45	- SF45 - Fuse 45 on fuse holder F	15 A	<ul style="list-style-type: none"> <li>- E551 - Height adjustment button for lumbar support of right seat, row 2</li> <li>- E552 - Height adjustment button for front of right seat, row 2</li> <li>- E553 - Height adjustment button for rear of right seat, row 2</li> <li>- E554 - Head restraint adjustment button for right seat, row 2</li> <li>- E555 - Longitudinal adjustment button for right seat, row 2</li> <li>- E556 - Backrest adjustment button for right seat, row 2</li> <li>- E557 - Depth adjustment button for right seat, row 2</li> <li>- J781 - Control unit for right seat, row 2</li> </ul>	86s

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
46	- SF46 - Fuse 46 on fuse holder F	-	- - Vacant	-
47	- SF47 - Fuse 47 on fuse holder F	-	- - Vacant	-
48	- SF48 - Fuse 48 on fuse holder F	15 A	- J783 - Control unit for heated left seat, row 3	75x
49	- SF49 - Fuse 49 on fuse holder F	15 A	- J785 - Control unit for heated right seat, row 3	75x
50	- SF50 - Fuse 50 on fuse holder F	15 A	- G528 - Potentiometer for heated left seat, row 2 - J158 - Control unit for heated left seat, row 2	75x
51	- SF51 - Fuse 51 on fuse holder F	15 A	- G529 - Potentiometer for heated right seat, row 2 - J780 - Control unit for heated right seat, row 2	75x

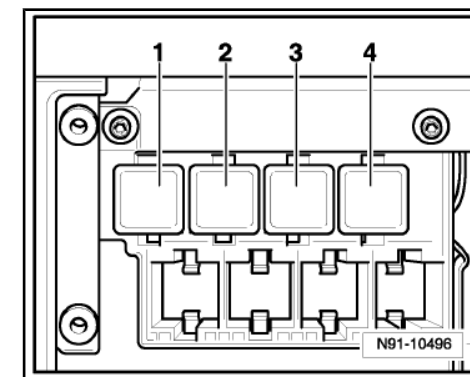
## 1.7 Allocation of relays and single fuses:

### 1.7.1 Relay carrier 3rd seat row (8-pin)

Pos. - Connector/designation

- 1 - J710 - Terminal voltage supply relay 2 (96)
- 2 - J701 - Terminal voltage supply relay 1 (96)
- 3 - J329 - Terminal 15 voltage supply relay (96)
- 4 - J141 - Switch illumination relay (96)
- 5 - 8 - - Vacant

- ◆ Under the left seat, row 3, behind trim
- ◆ View from rear

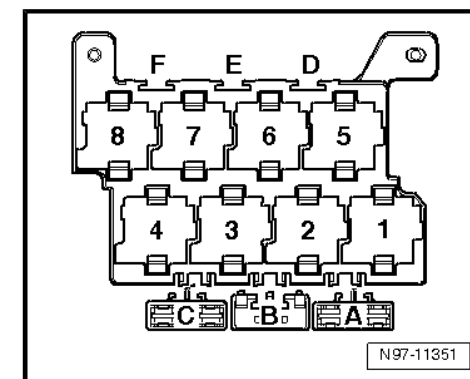


### 1.7.2 Relay carrier (1) cockpit (8-pin)

Pos. - Connector/designation nominal value

- 5 - J59-X-contact relief relay (100) - -

- ◆ Below the dash panel (centre)



### 1.7.3 Relay carrier (2) cockpit (8-pin)

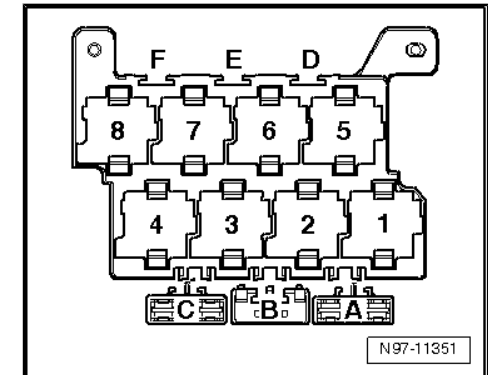
Pos. - Connector/designation terminal nominal value

3 - S300 - Special vehicle fuse 10 75x 15 A

- S301-Special vehicle fuse 11 <sup>1)</sup> -

- S302-Special vehicle fuse 12 <sup>1)</sup> -

◆ Below the dash panel (centre)



### 1.7.4 Relay carrier, left seat box (8-pin)

Pos. - Connector/designation terminal nominal value

5 - S291 - Special vehicle fuse 1 86s 3 A

- S292 - Special vehicle fuse 2 <sup>1)</sup> -

- S293 - Special vehicle fuse 3 56b 15 A

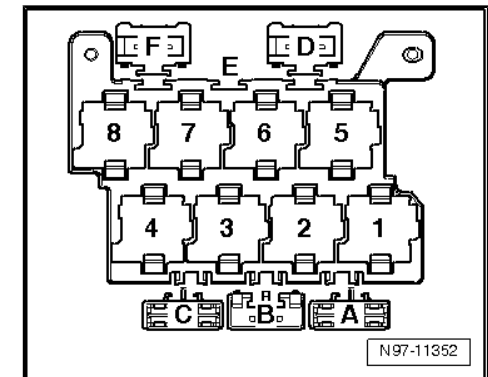
6 - J7-Battery isolation relay (100) - -

<sup>2)</sup> - S320 - Special vehicle fuse 30 75x 30 A

<sup>2)</sup> - S321 - Special vehicle fuse 31 30 30 A

<sup>2)</sup> - S322 - Special vehicle fuse 32 30 30 A

D - S171 - Battery isolation relay fuse 87 80 A



#### Notes:

◆ <sup>1)</sup> Vacant

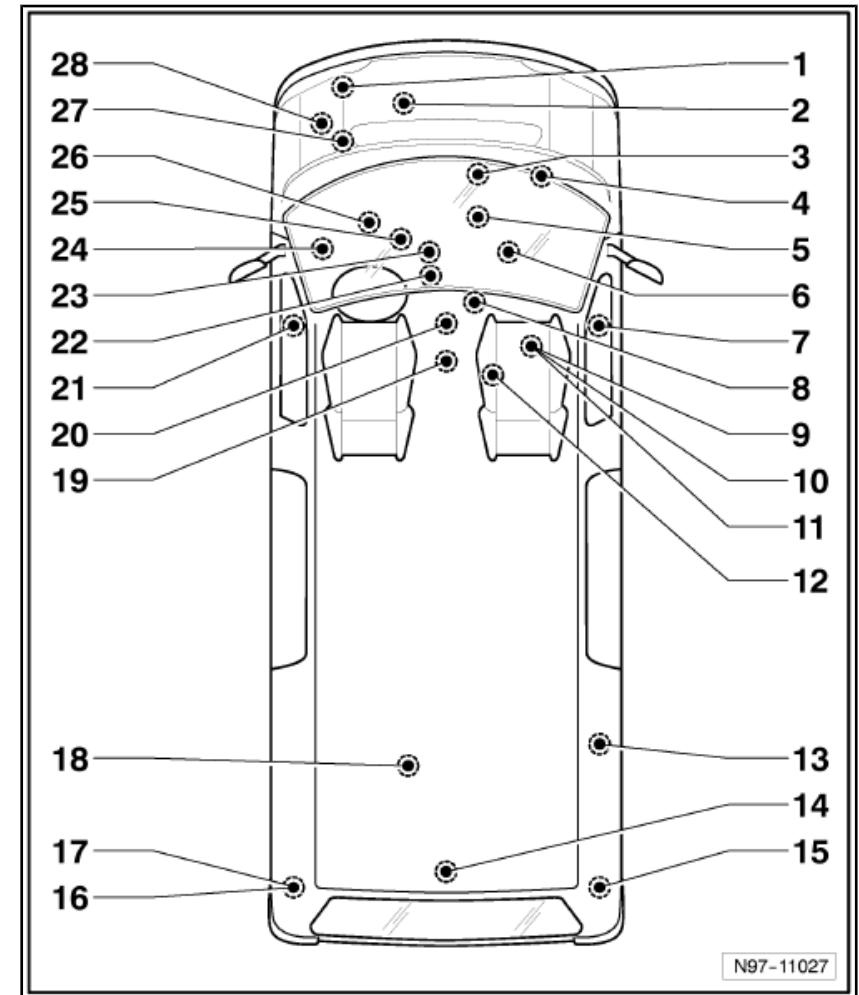
◆ <sup>2)</sup> Auxiliary fuse holder on free position of relay

# 1 Position and connection of the control units



## Note

See allocation position on the following pages!



No.	Function/component	Location	Figure on page
1	- Radiator fan control unit -J293-	- In engine compartment	- Location: <a href="#">⇒ page 10</a> - Connector assignment: <a href="#">⇒ page 10</a> - Connector assignment: <a href="#">⇒ page 11</a> - Connector assignment: <a href="#">⇒ page 11</a>

2	- Automatic gearbox control unit -J217-	- In engine compartment	- Connector assignment: <a href="#">⇒ page 9</a>
3	- Heated front seats control unit -J774-	- behind dash panel, near relay carrier cockpit <sup>2)</sup>	- Location: <a href="#">⇒ page 18</a>
4	- Mobile telephone operating electronics control unit -J412-	- Behind the glove compartment	- Location: <a href="#">⇒ page 19</a> - Connector assignment, up to October 2007: <a href="#">⇒ page 19</a> - Connector assignment, from November 2007: <a href="#">⇒ page 20</a>
5	- Rotating light and siren system control unit -J23-	- on dash panel, under cover bonnet	- Location: <a href="#">⇒ page 23</a>
6	- Traffic information control unit -J559-	- On heater/air conditioner, in the centre - Behind the dash panel, left	- Location: <a href="#">⇒ page 21</a> - ⇒ Position -23- <a href="#">⇒ page 2</a>
7	- Front passenger door control unit -J387-	- In the front right door	- Location: <a href="#">⇒ page 22</a>
8	- Sliding sunroof adjustment control unit -J245-	- On sliding/tilting sunroof	- Location: <a href="#">⇒ page 18</a>
9	- Voice amplification control unit -J656-	- Under the seat on front right	- Location: <a href="#">⇒ page 28</a>
10	- Amplifier -R12-	- Under the seat on front right	- Location: <a href="#">⇒ page 28</a>
11	- CD changer -R41-	- Under the seat on front right	- Location: <a href="#">⇒ page 28</a>
12	- Convenience system central control unit -J393-	- Under the seat on front right	- Location: <a href="#">⇒ page 26</a> - Connector assignment: <a href="#">⇒ page 27</a>
13	- Aerial selection control unit -J515-	- Above the rear right side window	- Location: <a href="#">⇒ page 19</a>
14	- Interior monitor send and receive module 2 -G305-	- In rear headliner	- Location: <a href="#">⇒ page 17</a>
15	- Right sliding door control unit -J731-	- On right D-pillar	- Location: - - with electric sliding door <a href="#">⇒ page 25</a> - - without electric sliding door <a href="#">⇒ page 25</a>
16	- Rear lid control unit -J605-	- On left D-pillar	- Location: <a href="#">⇒ page 24</a>
17	- Left sliding door control unit -J558-	- On left D-pillar	- Location: - - with electric sliding door <a href="#">⇒ page 23</a> - - without electric sliding door <a href="#">⇒ page 24</a>
18	- Four-wheel drive control unit -J492-	- On the rear axle final drive, in front left area	- Location: <a href="#">⇒ page 29</a>
19	- Anti-theft and tilt system control unit -J529-	- On the roof console	- Location: <a href="#">⇒ page 17</a>
20	- Airbag control unit -J234-	- Between the front seats	- Location: <a href="#">⇒ page 15</a> - Connector assignment: <a href="#">⇒ page 16</a>
21	- Driver door control unit -J386-	- In the front left door	- Location: <a href="#">⇒ page 14</a>
22	- Gearshift indicator control unit -J98-	- unter selector lever	- Location: <a href="#">⇒ page 22</a>
23	- Traffic information control unit -J559-	- Behind the dash panel, left	- Location: <a href="#">⇒ page 21</a>
24	- Parking aid control unit -J446-	- Behind the dash panel, left	- Location: <a href="#">⇒ page 13</a> - Connector assignment: <a href="#">⇒ page 13</a>
25	- Onboard supply control unit -J519-	- Below the dash panel	- Location: <a href="#">⇒ page 12</a>



26	- Control unit in dash panel insert -J285- Immobilizer control unit -J362- Data bus diagnostic interface -J533-	- In dash panel insert	- Location: <a href="#">⇒ page 12</a>
27	- ABS control unit -J104-	- In engine compartment	- Connector assignment: <a href="#">⇒ page 8</a>
28	- Motronic control unit -J220- Diesel direct injection system control unit -J248- Engine control unit -J623-	- In engine compartment	- Location: <a href="#">⇒ page 5</a> - Connector assignment: Diesel engine: <a href="#">⇒ page 6</a> Connector assignment: Petrol engine: <a href="#">⇒ page 7</a>
-	- Tachograph -G24-	- depends on equipment	- <a href="#">⇒ Workshop Manual</a>
-	- Alarm system control unit -J85-	- <a href="#">⇒ Fitting Locations for relay positions</a>	- Without figure
-	- Heated driver seat control unit -J131-	- Under driver seat <sup>1)</sup>	- Without figure
-	- Heated front passenger seat control unit -J132-	- Under front passenger seat <sup>1)</sup>	- Without figure
-	- Display unit control unit -J146-	- <a href="#">⇒ Fitting Locations for business</a>	- Without figure
-	- Magnetic clutch control unit -J153-	- <a href="#">⇒ Fitting Locations for relay positions</a>	- Without figure
-	- Control unit for heated left seat, row 2 -J158-	- <a href="#">⇒ Fitting Locations for business</a>	- Without figure
-	- Heater control unit -J162-	- On the auxiliary coolant heater Thermo Top Z / C-B, Thermo Top Z / C-D	- <a href="#">⇒ Workshop Manual</a>
-	- Automatic glow period control unit -J179-	- <a href="#">⇒ Fitting Locations for relay positions</a>	- Without figure
-	- Differential lock control unit -J187-	- <a href="#">⇒ Fitting Locations for relay positions</a>	- Without figure
-	- Climatronic control unit -J255-	- Dash panel - centre	- <a href="#">⇒ Workshop Manual</a>
-	- Folding exterior mirror control unit -J351-	- <a href="#">⇒ Fitting Locations for relay positions</a>	- Without figure
-	- Auxiliary heater control unit -J364-	- On the auxiliary air heater Air Top 3500	- <a href="#">⇒ Workshop Manual</a>
-	- Taxi alarm system 2 control unit -J430-	- <a href="#">⇒ Fitting Locations for relay positions</a>	- Without figure
-	- Multifunction steering wheel control unit -J453-	- <a href="#">⇒ Fitting Locations for relay positions</a>	- Without figure
-	- Radio controlled clock receiver -J489-	- in right engine compartment, near horn/ dual tone	- <a href="#">⇒ Workshop Manual</a>
-	- Power steering control unit -J500-	- <a href="#">⇒ Fitting Locations for relay positions</a>	- Without figure
-	- Control unit with display for radio and navigation system -J503-	- Dash panel - centre	- <a href="#">⇒ Workshop Manual</a>
-	- Taxi alarm remote control, control unit -J601-	- <a href="#">⇒ Fitting Locations for relay positions</a>	- Without figure
-	- Multimedia control unit -J650-	- <a href="#">⇒ Fitting Locations for business</a>	- Without figure
-	- Radiator fan control unit 2 -J671-	- on radiator fan	- Without figure
-	- Roof hydraulics control unit -J768-	- <a href="#">⇒ Fitting Locations for camper</a>	- Without figure

-	-	Control unit for left seat, row 2 -J779- Control unit for heated right seat, row 2 -J780- Control unit for right seat, row 2 -J781- Control unit for left seat, row 3 -J782- Control unit for heated left seat, row 3 -J783- Control unit for right seat, row 3 -J784- Control unit for heated right seat, row 3 -J785-	-	⇒ Fitting Locations for business	-	Without figure
-	-	Radio -R-	-	Dash panel - centre	-	⇒ Workshop Manual



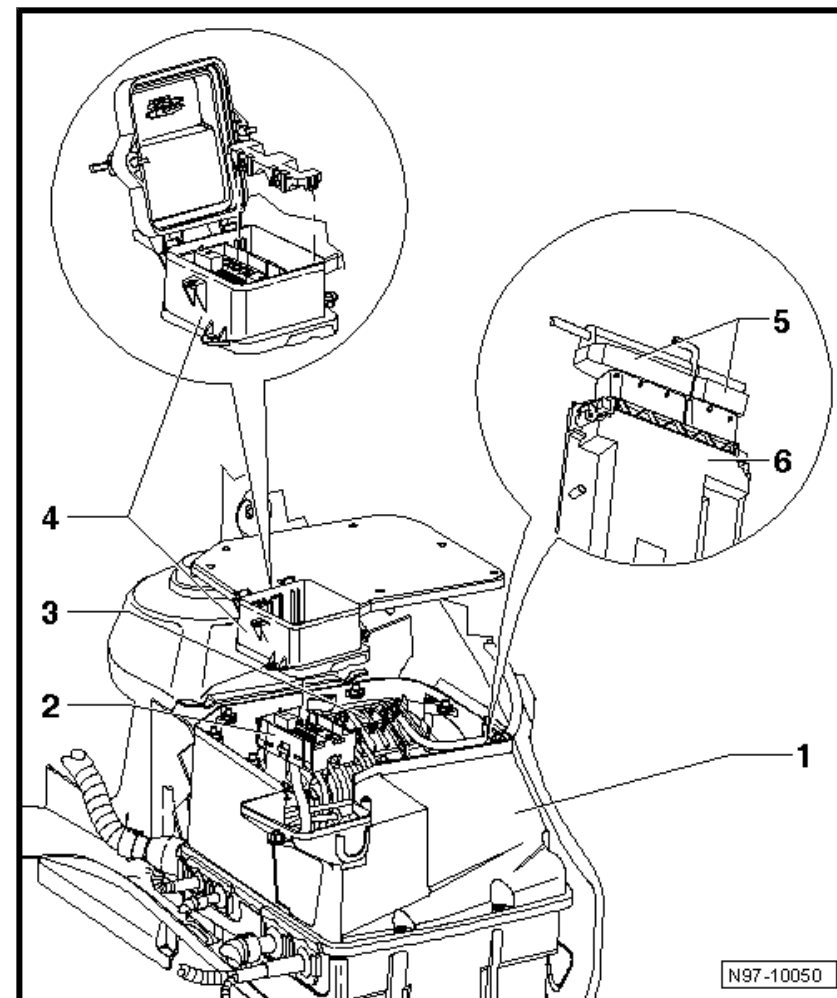
**Note**

♦ <sup>1)</sup> applicable up to December 2005

♦ <sup>2)</sup> applicable from January 2006

## 1.1 Engine compartment

- 1 - Electronics box, in engine compartment
- 2 - Fuse holder D -SD- , in engine compartment
- 3 - Fuse holder A -SA- , in electronics box
- 4 - Upper housing half for fuse holder, in engine compartment
- 5 - Pin connectors on engine control unit, in electronics box
- 6 - Engine control unit -J623- , in electronics box



### 1.1.1 Connector assignment:

A - Engine control unit -J623- (Diesel engine)

Pin connector:

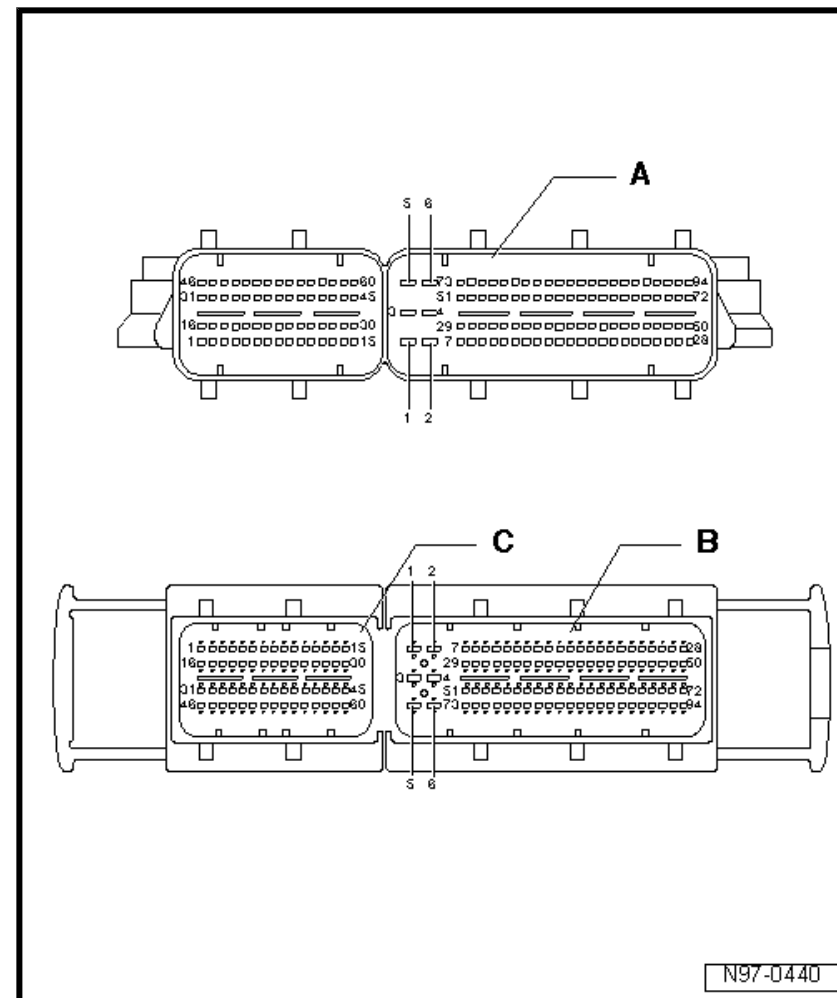
B - 94-pin connector -T94- , on wiring harness

C - 60-pin connector -T60- , on wiring harness



**Note**

*Designation as diesel direct injection system control unit  
-J248- possible*



## 1.1.2 Connector assignment:

A - Engine control unit -J623- (Petrol engine)

Pin connector:

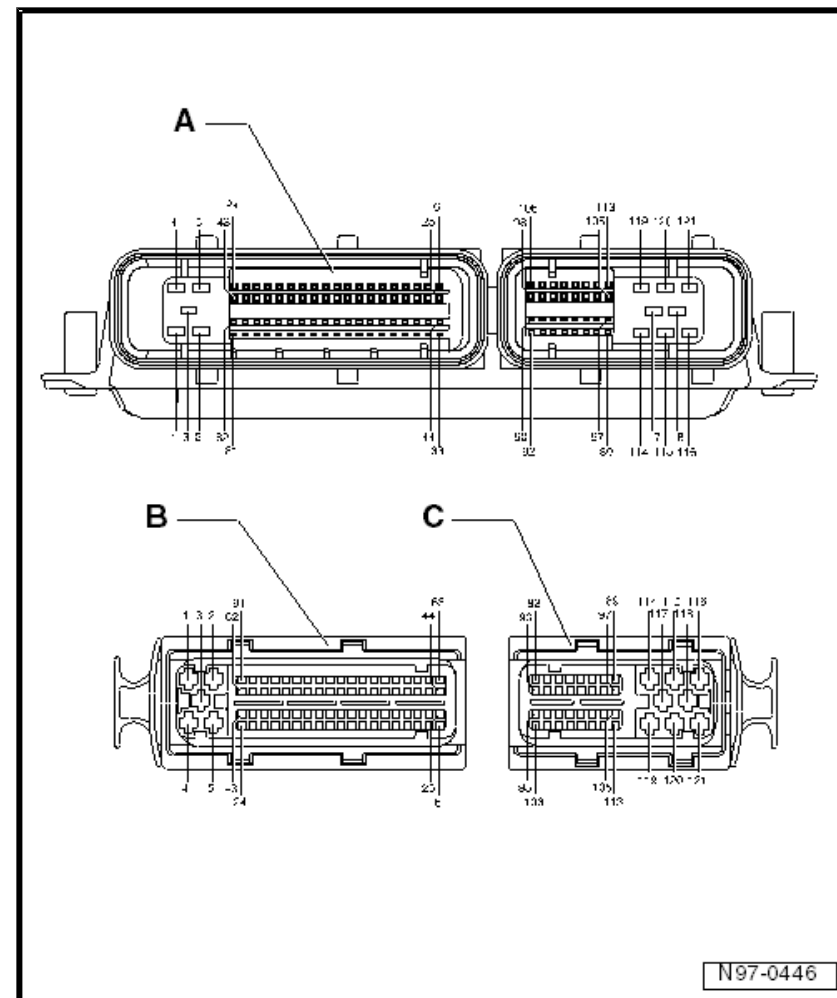
B - 81-pin connector -T81- or 121-pin connector -T121- , on wiring harness

C - 40-pin connector -T40- or 121-pin connector -T121- , on wiring harness



**Note**

*Designation as Motronic control unit -J220- possible*



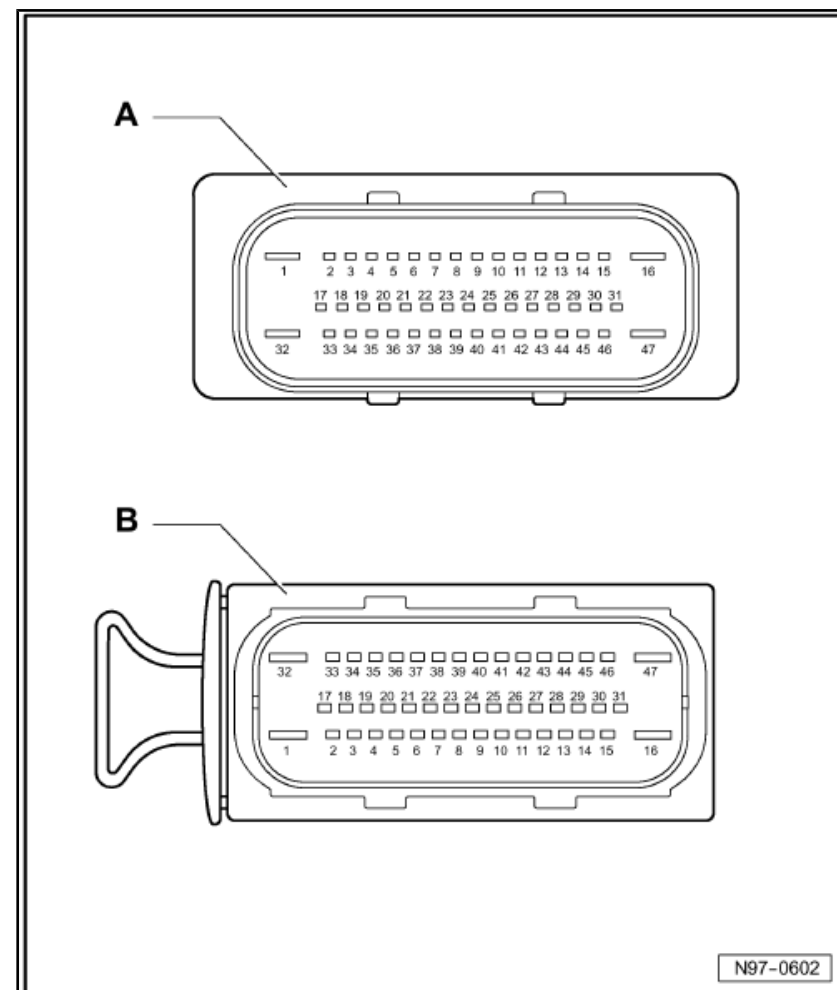
## 1.2 ABS control unit -J104-

### 1.2.1 Connector assignment:

A - ABS control unit -J104-

Pin connector:

B - 47-pin connector -T47- , on wiring harness



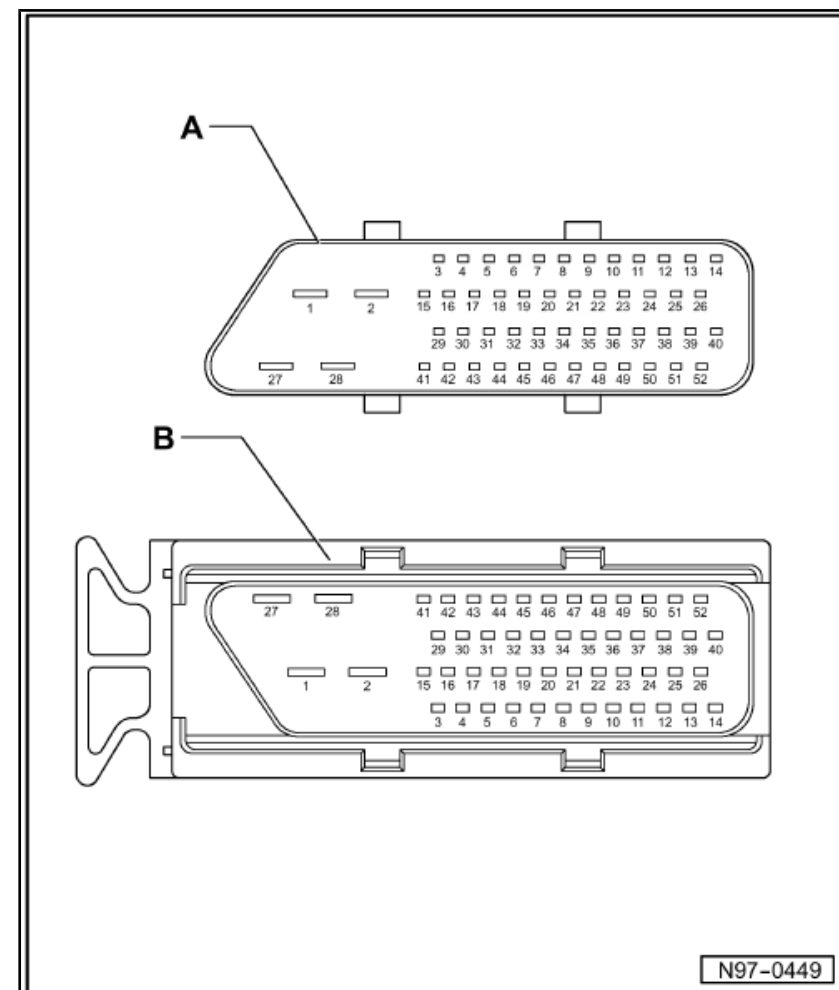
### 1.3 Automatic gearbox control unit -J217-

#### 1.3.1 Connector assignment:

A - Automatic gearbox control unit -J217-

Pin connector:

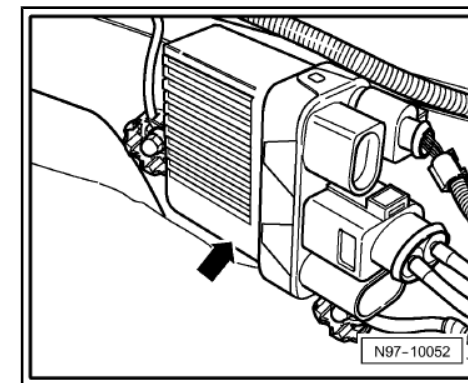
B - 52-pin connector -T52- , on wiring harness



## 1.4 Radiator fan control unit -J293-

### 1.4.1 Location:

in engine compartment, on left of longitudinal member ⇒ -arrow-



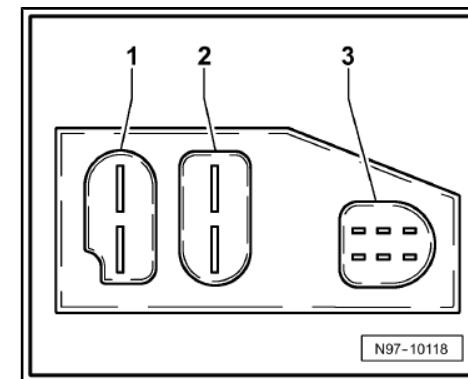
### 1.4.2 Pin connector:

- 1 - 2-pin connector -T2b-
- 2 - 2-pin connector -T2- , black
- 3 - 6-pin connector -T6u- , black



**Note**

*for models without air conditioning system only*





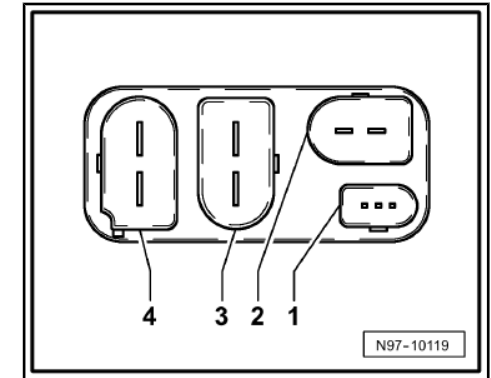
### 1.4.3 Pin connector:

- 1 - 3-pin connector -T3u- , black
- 2 - 2-pin connector -T2d- , black
- 3 - 2-pin connector -T2- , black
- 4 - 2-pin connector -T2b- , brown



#### Note

- ♦ for models with air conditioning system and radiator fan control unit 1 only
- ♦ for engine codes AXA, AXB, AXC, AXD, AXE, BDL, BDM, BKK, BLJ only



### 1.4.4 Pin connector:



#### Note

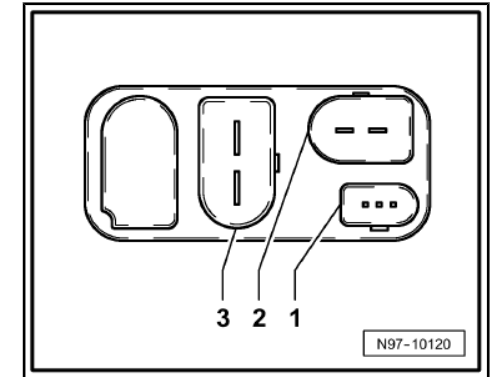
*Radiator fan control unit 2 -J671- on radiator fan*

- 1 - 3-pin connector -T3u- , black
- 2 - 2-pin connector -T2d- , black
- 3 - 2-pin connector -T2- , black



#### Note

- ♦ for models with air conditioning system and 2 radiator fan control units only
- ♦ for engine codes AXD, AXE, BDL, BDM, BKK, BLJ only



## 1.5 Onboard supply control unit -J519-

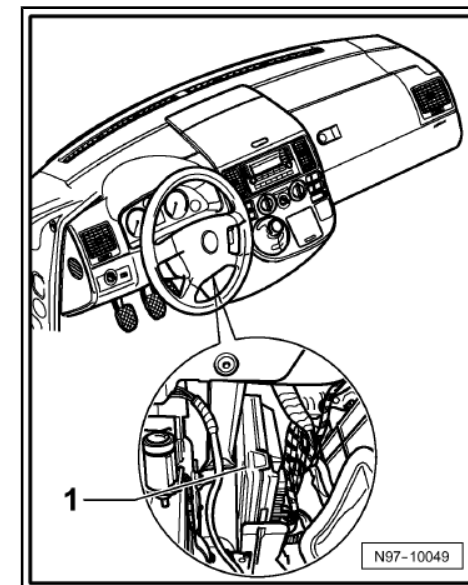
### 1.5.1 Location:

under dash panel ⇒ -position 1-



#### Note

*Connector assignment: See Fitting Locations: Pin connector assignment of selected connections*



## 1.6 Control unit in dash panel insert -J285-

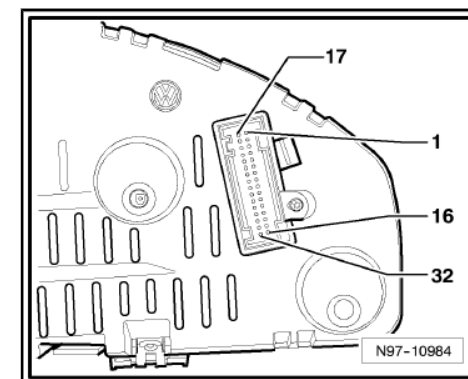
◆ 32-pin connector -T32- , blue

⇒ -Position 1 up to 32-



#### Note

*Connector assignment: See Fitting Locations: Pin connector assignment of selected connections*



## 1.6.1 Control unit in dash panel insert -J285-

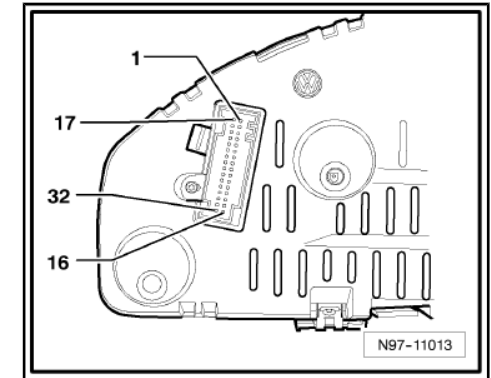
◆ 32-pin connector -T32a- , green

⇒ -Position 1 up to 32-



### Note

- ◆ *Connector assignment: See Fitting Locations: Pin connector assignment of selected connections*
- ◆ *Immobilizer control unit -J362- in control unit in dash panel insert -J285- integrated*
- ◆ *data bus diagnostic interface -J533- in control unit in dash panel insert -J285- integrated*

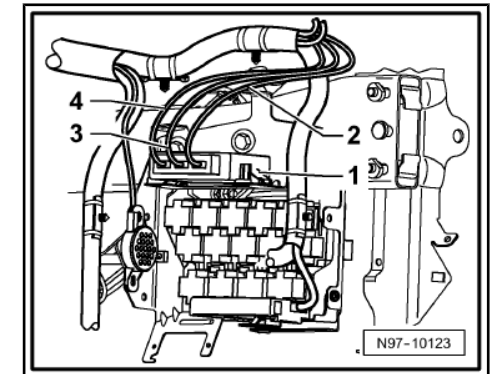


## 1.7 Parking aid control unit -J446-

### 1.7.1 Location:

Behind the dash panel, left

1 - Parking aid control unit -J446-



### 1.7.2 Pin connectors:

2 - 16-pin connector -T16h- , white<sup>1)</sup>

- 16-pin connector -T16h- , brown<sup>2)</sup>

3 - 12-pin connector -T12s- , white<sup>1)</sup>

- 12-pin connector -T12s- , black<sup>2)</sup>

4 - 12-pin connector -T12r- , black<sup>1)</sup>

- 12-pin connector -T12r- , brown<sup>2)</sup>



**Note**

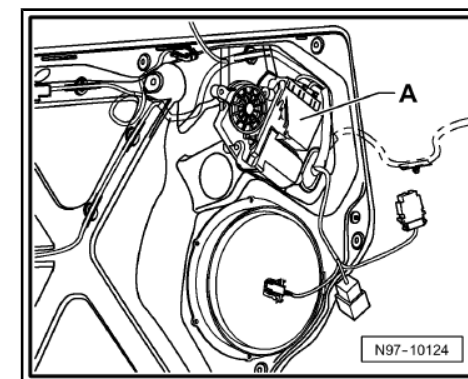
♦ <sup>1)</sup>*applicable up to January 2004*

♦ <sup>2)</sup>*applicable from February 2004*

## 1.8 Driver door control unit -J386-

### 1.8.1 Location:

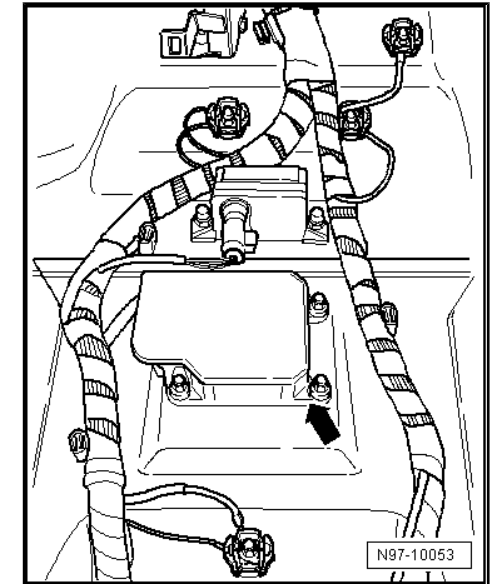
In the front left door ⇒ -position A-



1.9 Airbag control unit -J234-

1.9.1 Location:

under dash panel, centre ⇒ -arrow-

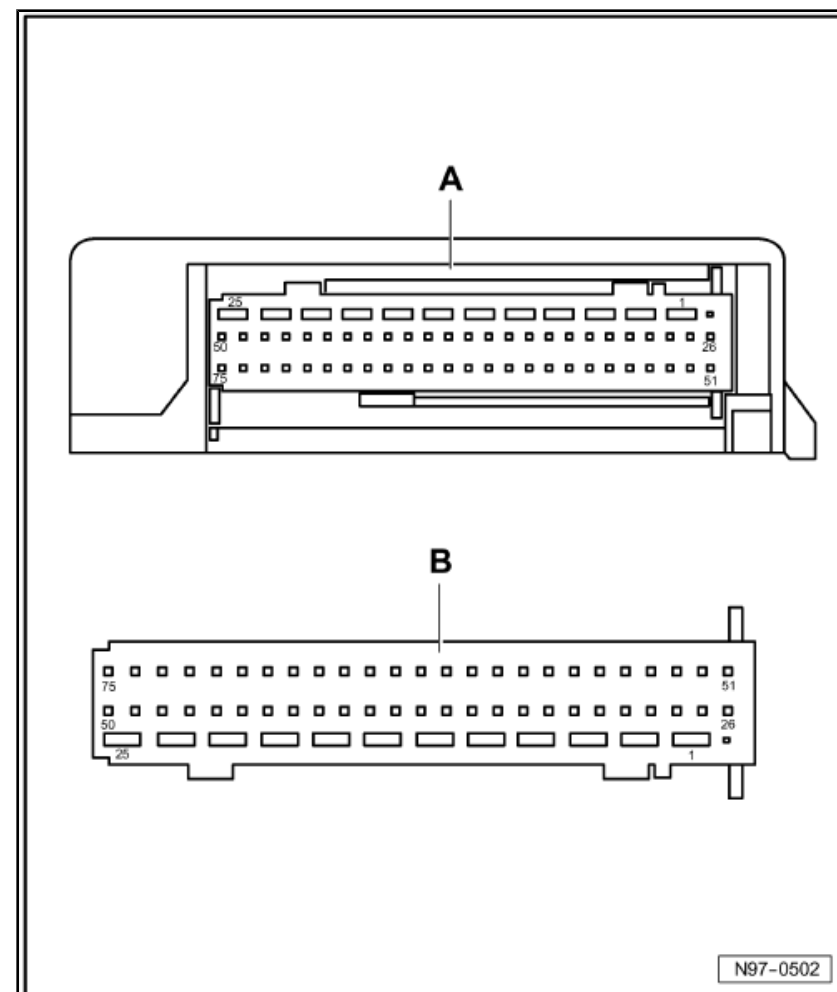


## 1.9.2 Connector assignment:

A - Airbag control unit -J234-

Pin connector:

B - 75-pin connector -T75- , on wiring harness

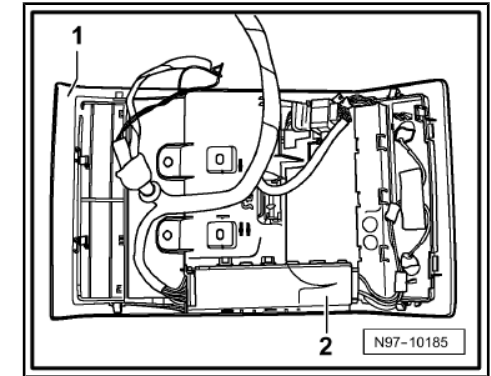


## 1.10 Anti-theft and tilt system control unit -J529-

### 1.10.1 Location:

1 - Roof console

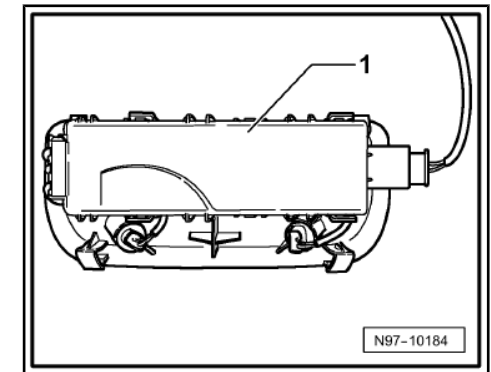
2 - Anti-theft and tilt system control unit -J529-



## 1.11 Interior monitor send and receive module 2 -G305-

### 1.11.1 Location:

1 - Interior monitor send and receive module 2 -G305- , in rear headliner



## 1.12 Heated front seats control unit -J774-

### 1.12.1 Fitting Locations:

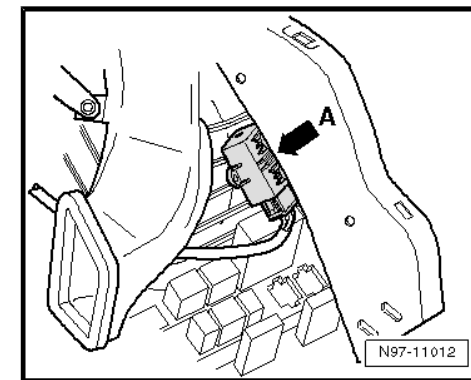
A - Heated front seats control unit -J774- , behind the dash panel,  
near relay carrier

behind the dash panel, near relay carrier



**Note**

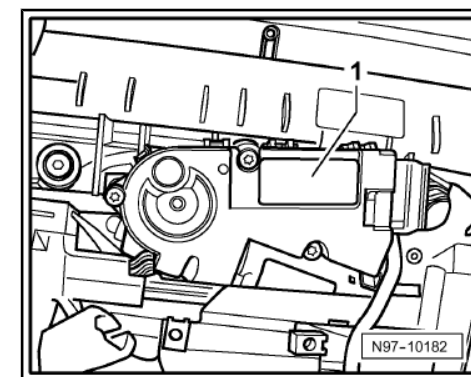
*applicable from January 2006*



## 1.13 Sliding sunroof adjustment control unit -J245-

### 1.13.1 Location:

1 - Sliding sunroof adjustment control unit -J245- , on sliding/  
tilting sunroof

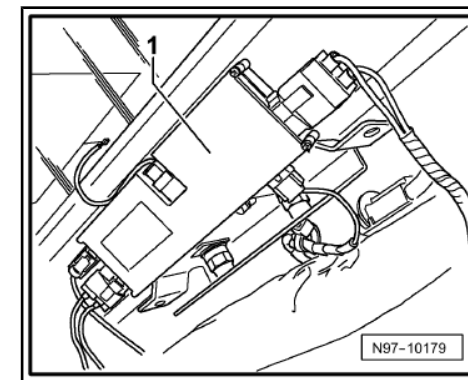




## 1.14 Aerial selection control unit -J515-

### 1.14.1 Location:

- 1 - Aerial selection control unit -J515- , above the rear right side window



## 1.15 Mobile telephone operating electronics control unit -J412-

### 1.15.1 Location:

- 1 - Mobile telephone operating electronics control unit -J412- , behind the glove compartment

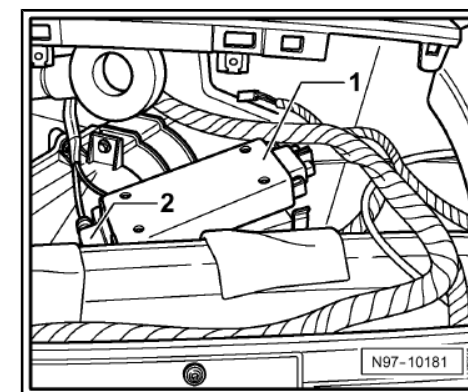
- 2 - 18-pin connector -T18c- <sup>1)</sup>

- 54-pin connector -T54- <sup>2)</sup>



#### Note

- ◆ <sup>1</sup> applicable up to October 2007
- ◆ <sup>2</sup> applicable from November 2007

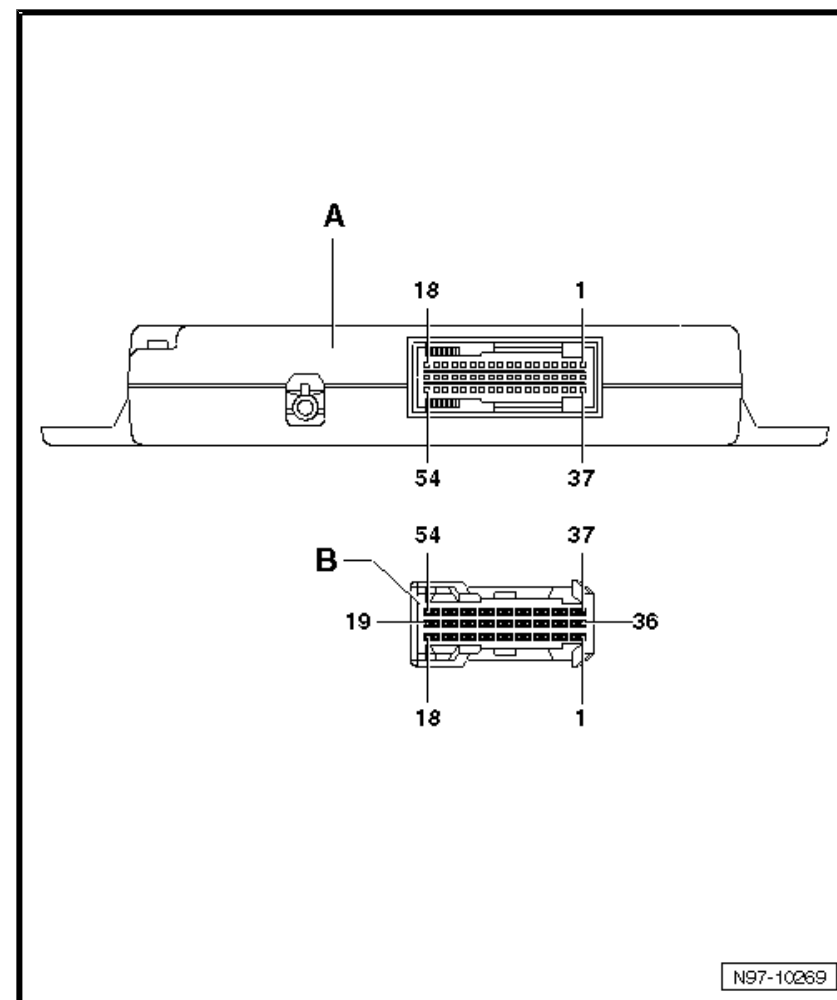


### 1.15.2 Connector assignment:

A - Mobile telephone operating electronics control unit -J412-

Pin connector:

B - 54-pin connector -T54-



## 1.16 Traffic information control unit -J559-

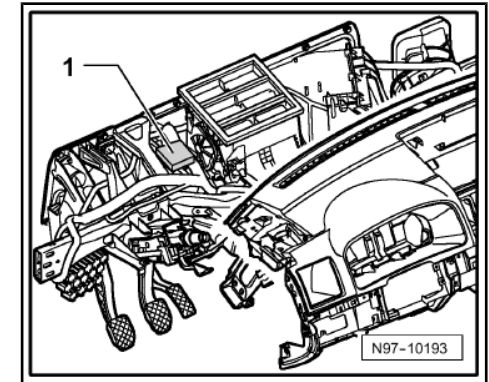
### 1.16.1 Location:

- 1 - Traffic information control unit -J559- , behind the dash panel, left



**Note**

*Location on heater, in the centre possible ⇒ [page 21](#)*



## 1.17 Traffic information control unit -J559-

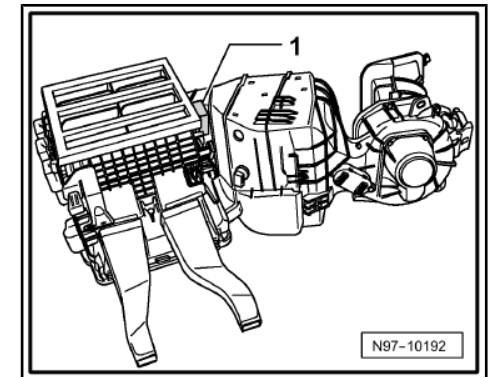
### 1.17.1 Location:

- 1 - Traffic information control unit -J559- , on heater, in the centre



**Note**

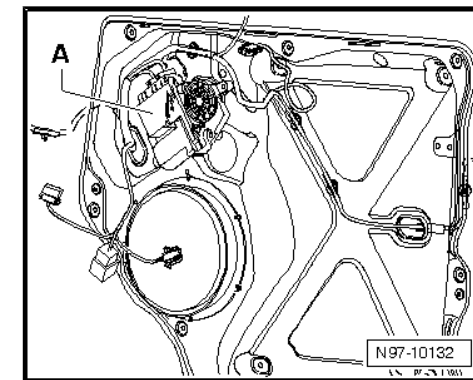
*Location on heater, behind the left dash panel possible  
⇒ [page 21](#)*



## 1.18 Front passenger door control unit -J387-

### 1.18.1 Location:

A - Front passenger door control unit -J387- , in the front right door



## 1.19 Gearshift indicator control unit -J98-

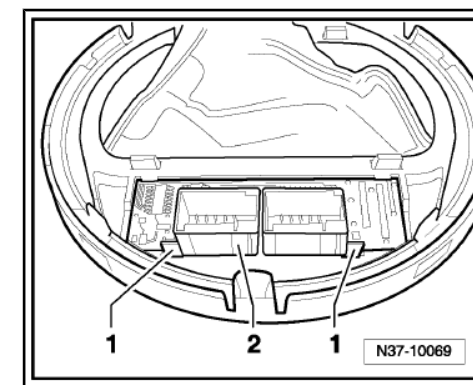
### 1.19.1 Location:

- 1 - Clip locking
- 2 - Gearshift indicator control unit -J98- , unter selector lever



**Note**

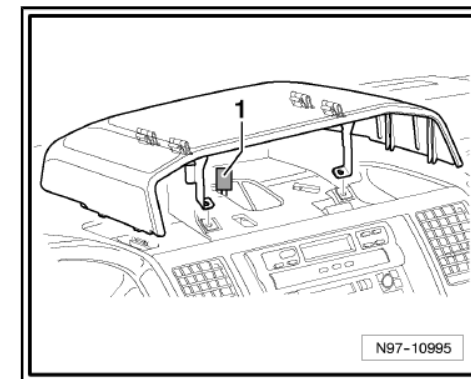
*in Workshop Manual designated as circuit board*



## 1.20 Rotating light and siren system control unit -J23-

### 1.20.1 Location:

- 1 - Rotating light and siren system control unit -J23- , on dash panel, under cover bonnet



## 1.21 Left sliding door control unit -J558- (electric sliding door)

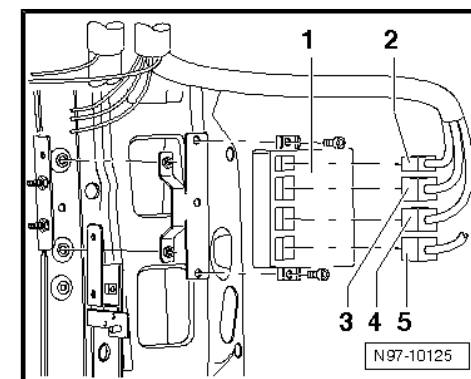
### 1.21.1 Location:

- 1 - Left sliding door control unit -J558- , on left D-pillar
- 2 - 6-pin connector -T6ag- , black
- 3 - 12-pin connector -T12k- , black
- 4 - 10-pin connector -T10aw- , black
- 5 - 6-pin connector -T6ah- , light-brown



#### Note

*Electric sliding door with power latching system*



## 1.22 Left sliding door control unit -J558- (power latching system, without electric sliding door)

### 1.22.1 Location:

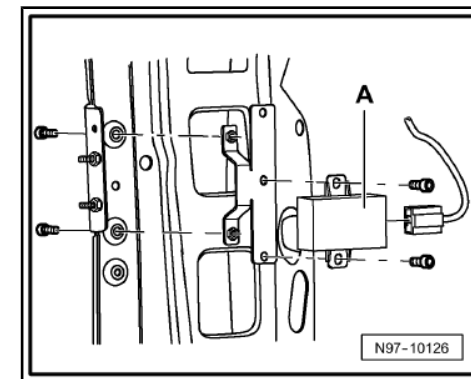
A - Left sliding door control unit -J558- , on left D-pillar

- 8-pin connector -T8x- , black



**Note**

*Mechanical sliding door with power latching system*

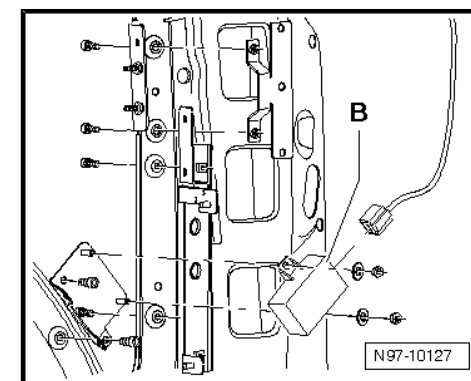


## 1.23 Rear lid control unit -J605-

### 1.23.1 Location:

B - Rear lid control unit -J605- , on left D-pillar

- 8-pin connector -T8w- , black



## 1.24 Right sliding door control unit -J731- (electric sliding door)

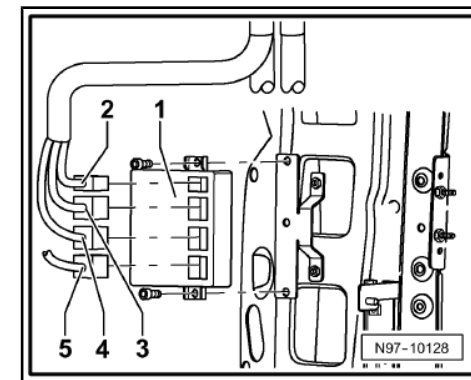
### 1.24.1 Location:

- 1 - Right sliding door control unit -J731- , on right D-pillar
- 2 - 6-pin connector -T6aj- , black
- 3 - 12-pin connector -T12I- , black
- 4 - 10-pin connector -T10ax- , black
- 5 - 6-pin connector -T6ak- , light-brown



#### Note

*Electric sliding door with power latching system*



## 1.25 Right sliding door control unit -J731- (power latching system, without electric sliding door)

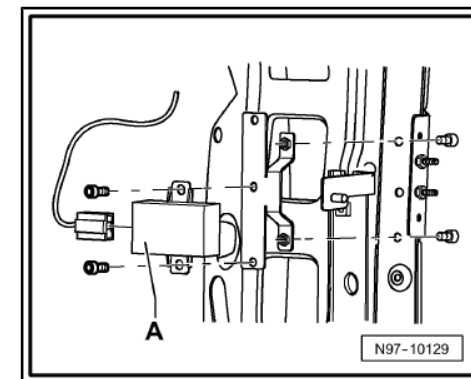
### 1.25.1 Location:

- A - Right sliding door control unit -J731- , on right D-pillar
- 8-pin connector -T8y- , black



#### Note

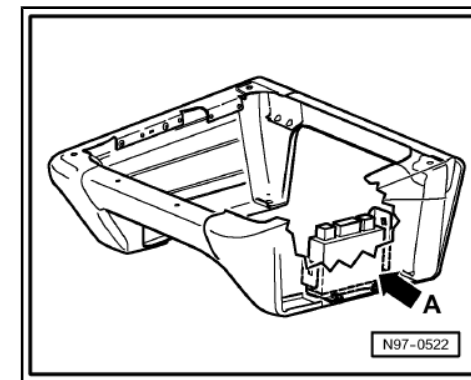
*Mechanical sliding door with power latching system*



**1.26 Convenience system central control unit -J393-**

**1.26.1 Location:**

A - Convenience system central control unit -J393- , under the seat on front right





## 1.26.2 Connector assignment:

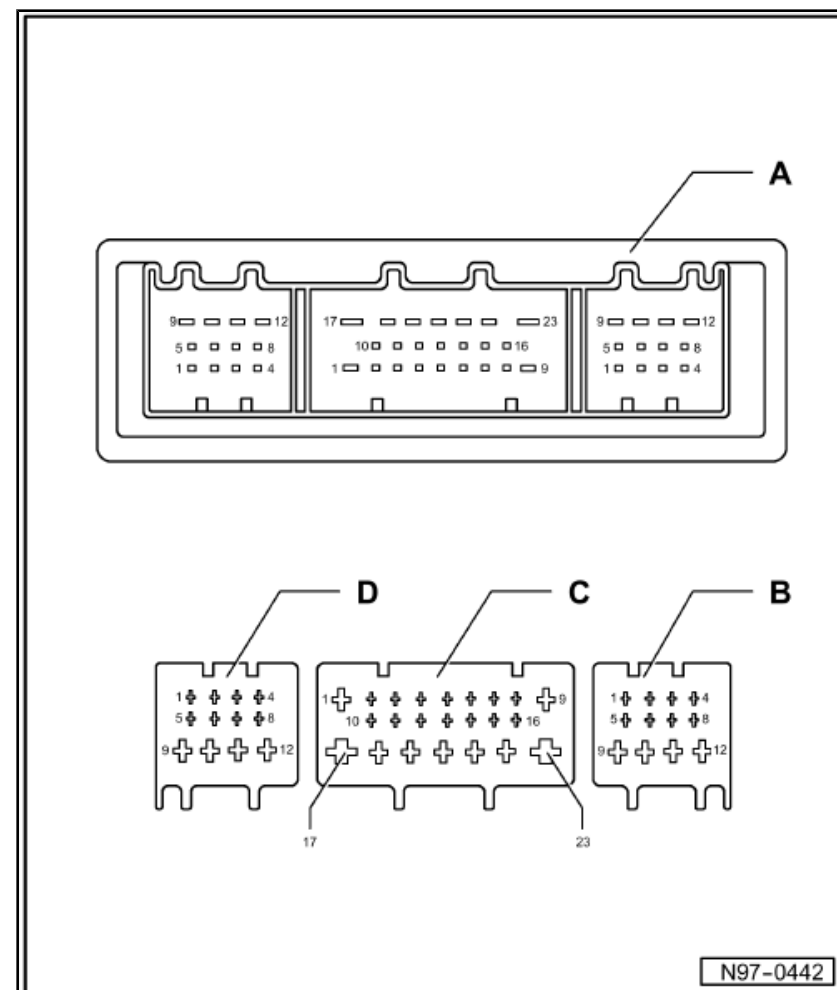
A - Convenience system central control unit -J393-

Pin connector:

B - 12-pin connector -T12b- , on wiring harness

C - 23-pin connector -T23- , on wiring harness

D - 12-pin connector -T12c- , on wiring harness

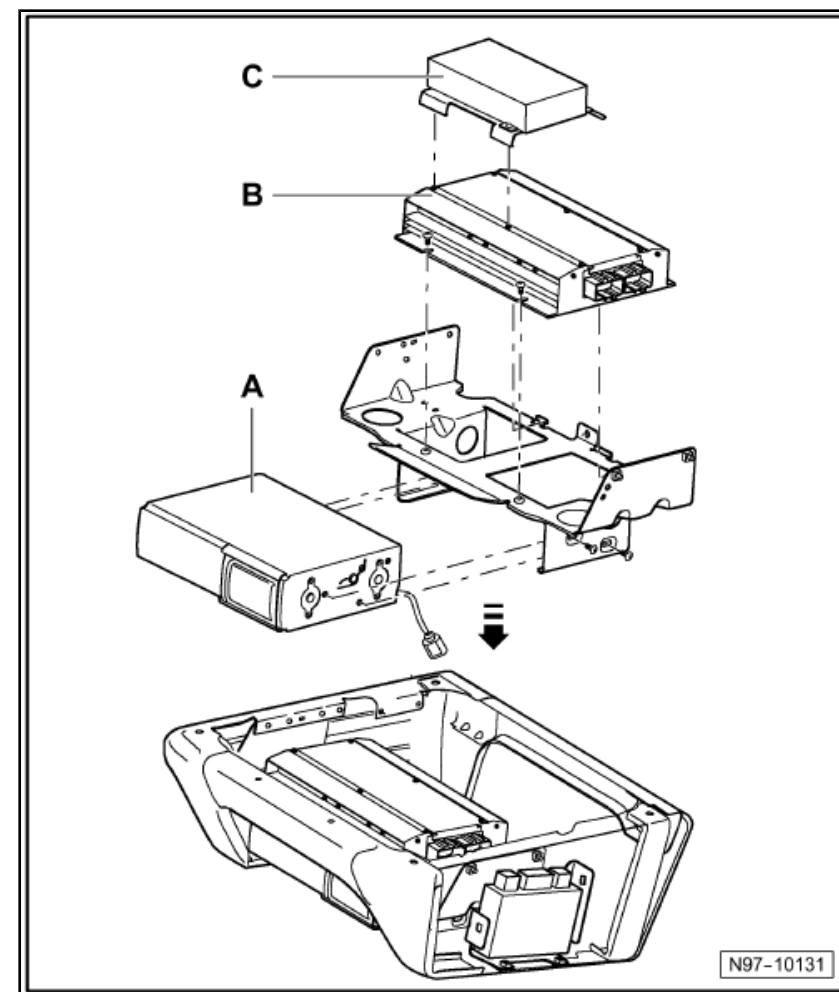


1.27 CD changer -R41- , amplifier -R12- and voice amplification control unit -J656-

A - CD changer -R41- , under the seat on front right

B - Amplifier -R12- , under the seat on front right

C - Voice amplification control unit -J656- , under the seat on front right



**1.28 Four-wheel drive control unit -J492-****1.28.1 Location:**

1 - Four-wheel drive control unit -J492- , on the rear axle final drive, in front left area

