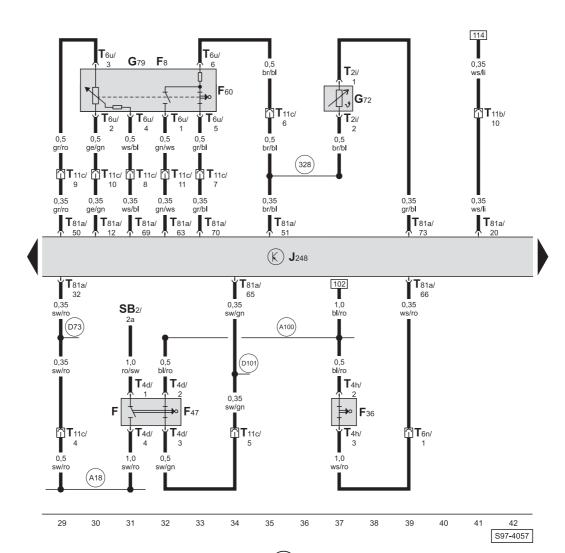
Diesel direct injection system control unit, accelerator pedal position sender, intake manifold temperature sender, brake pedal switch, clutch pedal switch





= white WS = black SW red ro br = brown gn = green = blue bl gr grey li = purple yellow ge

F Brake light switch

F8 Kickdown switch

orange

F36 Clutch pedal switch

F47 Brake pedal switch

F60 Idling speed switch

G72 Intake manifold temperature sender

G79 Accelerator position sender

J248 Diesel direct injection system control unit

SB2 Fuse, in fuse holder

2-pin connector, at fuel gauge sender T2i

T4d 4-pin connector, at brake pedal switch

T4h 4-pin connector, at clutch pedal switch

T<sub>6</sub>n 6-pin connector, at left of bulkhead (blue)

T6u 6-pin connector, at accelerator pedal position sender

- 11-pin connector, at left of bulkhead (red) T11b T11c

11-pin connector, at left of bulkhead (blue)

T81a - 81-pin connector, at engine control unit

328

Earth connection -2- (sender earth), in engine compartment wiring harness

A18

Connection (54), in wiring loom behind dash panel

(A100)

Connection (87a), in wiring loom behind dash panel

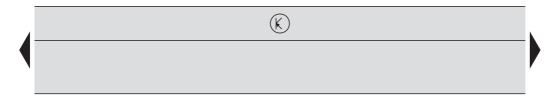
D73

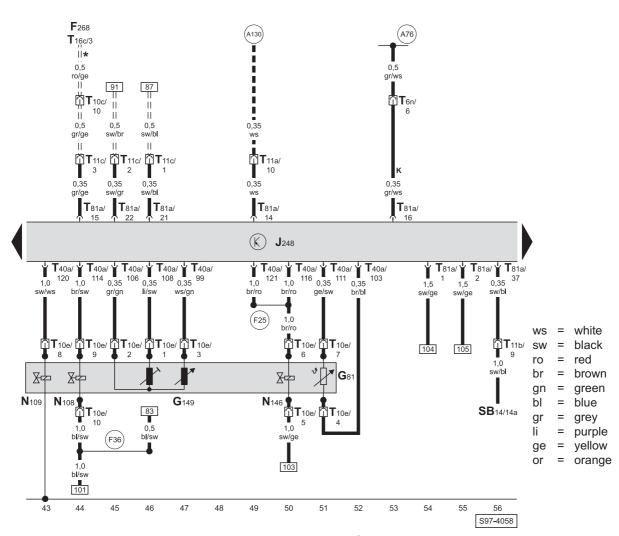
Connection (54), in left of engine compartment wiring

(D101

Connection (brake pedal switch), in engine compartment wiring loom

Diesel direct injection system control unit, fuel temperature sender, modulating piston movement sender, quantity adjuster



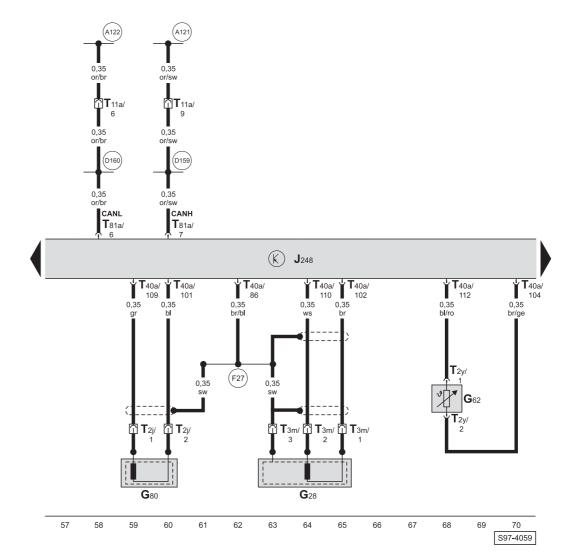


- F268 Heater element contact switch (PTC)
- G81 Fuel temperature sender
- G149 Modulating piston movement sender
- J248 Diesel direct injection system control unit
- N108 Commencement of injection valve
- N109 Fuel cut off valve
- N146 Quantity (metering) adjuster
- SB14 Fuse, in fuse holder
- Γ6n 6-pin connector, at left of bulkhead (blue)
- T10c 10-pin connector, behind dash panel on right
- T10e 10-pin connector, at injection pump
- T11a 11-pin connector, at left of bulkhead (white)
- T11b 11-pin connector, at left of bulkhead (red)
- T11c 11-pin connector, at left of bulkhead (blue)
  T16c 16-pin connector, at fresh air controls
- T40a 40-pin connector, at engine control unit
- T81a 81-pin connector, at engine control unit

- (A76)
  - Connection (K diagnosis wire), in wiring loom behind dash panel on left
- A130 Connection (CCS), in wiring loom behind dash panel on left
- (F25) Connection -1-, in engine preassembly wiring loom
- (F36) Connection (87a), in engine preassembly wiring loom
- \* does not apply to models with air conditioning
- ■■■ Applies only to models with CCS
- = = = Applies only to models with heating element (PTC)

Diesel direct injection system control unit, engine speed sender, coolant temperature sender, needle motion sender





D159

D160

F27

= black SW ro red br = brown gn = green = blue bl gr grey = li purple

=

ge

white

yellow

= orange

=

WS

G28 - Engine speed sender

G62 - Coolant temperature sender

G80 - Needle lift sender

J248 - Diesel direct injection system control unit

T2j - 2-pin connector, at needle lift sender

T2y - 2-pin connector, at coolant temperature sender

T3m - 3-pin connector, at engine speed sender

T11a - 11-pin connector, at left of bulkhead (white)

T40a - 40-pin connector, at engine control unitT81a - 81-pin connector, at engine control unit

- Connection (CAN-H), in wiring loom behind dash panel on

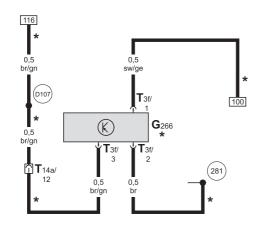
A122 - Connection (CAN-L), in wiring loom behind dash panel

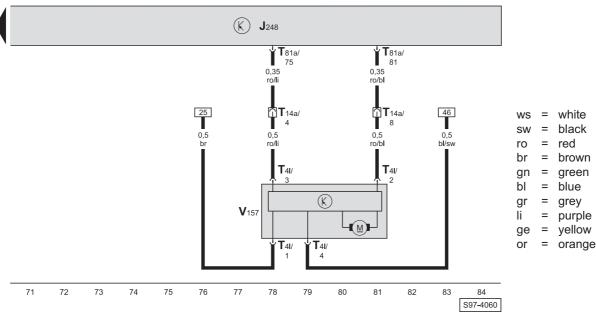
 Connection (CAN-H), in engine compartment wiring loom

- Connection (CAN-L), in engine compartment wiring loom

 Connection (screening), in engine pre-wiring wiring harness Diesel direct injection system control unit, Intake manifold flap motor, Oil level/oil temperature sender







G266 - Oil level/oil temperature sender

J248 - Diesel direct injection system control unit

T3f - Connector, 3-pin, at oil level/oil temperature sender

T4I - 4-pin connector, at intake manifold flap motor

T14a - Connector, 14-pin, in left of engine compartment (connection of the engine pre-assembly wiring loom/ engine compartment wiring loom)

T81a - 81-pin connector, at engine control unit

V157 - Intake manifold flap motor

(281)

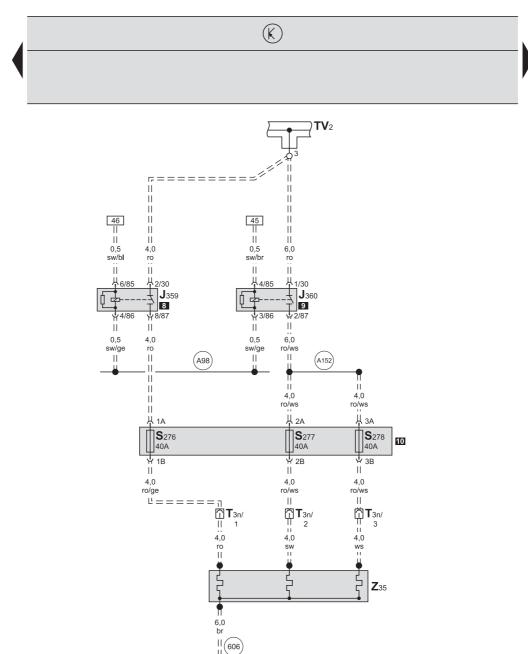
- Earth connection -1-, in engine pre-assembly wiring

D107) - Coi

- Connection -5- (Oil level/oil temperature sender), left in engine compartment wiring harness

applies only to models with extended service interval (ESI)

Low heating capacity relay, high heating capacity relay, heating element for additional heater (PTC), additional fuse holder



J359 - Low heating capacity relay

=

=

= blue

li =

=

=

WS

SW

ro

br =

gn =

bl = gr =

ge

Z35

white

black

brown

green

grey

purple

yellow

orange

red

J360 - High heating capacity relay

S276 - Fuse -1- for heater element S277 - Fuse -2- for heater element

S277 - Fuse -2- for heater element S278 - Fuse -3- for heater element

T3n - 3-pin connector, behind dash panel (at PTC heating element)

Additional heating heater element (PTC)

85

86

87

88

89

90

91

606

92

93

94

TV2 - Terminal 30 junction, behind dash panel on left

) - Earth point, under the centre console, near gear stick

96

97

98 S97-4061

(A98) - Positive connection (30a), in wiring loom behind dash panel (applies only to models with telephone system)

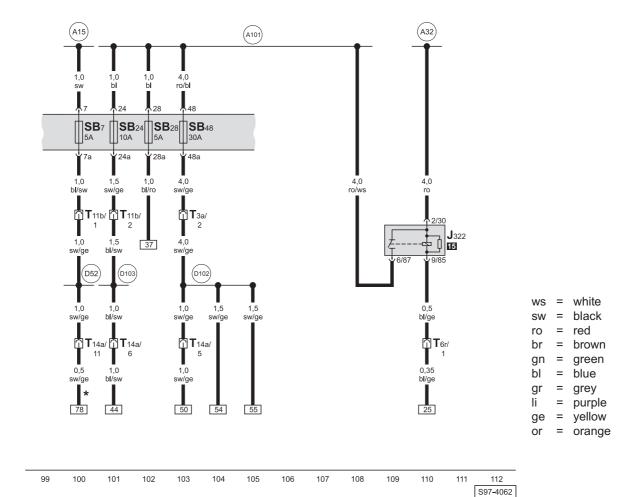
95

(A152) - Connection (87), in wiring harness behind dash panel

= = - Applies only to models with heating element (PTC)

Diesel direct injection system relay, fuse holder





A32

D102

J322 - Diesel direct injection system relay

T3a - 3-pin connector, at left of bulkhead (grey)

T6r - 6-pin connector, at left of bulkhead (brown)

T11b - 11-pin connector, at left of bulkhead (red)

113 - Traphreometer, at lot of building (conjugate of the engine compartment (connection of the engine pre-assembly wiring loom/engine compartment wiring loom)

A15) - Positive connection (15), in wiring loom behind dash

 Positive connection (30a), in wiring loom behind dash panel on left

(A101) - Connection (87), in wiring loom behind dash panel

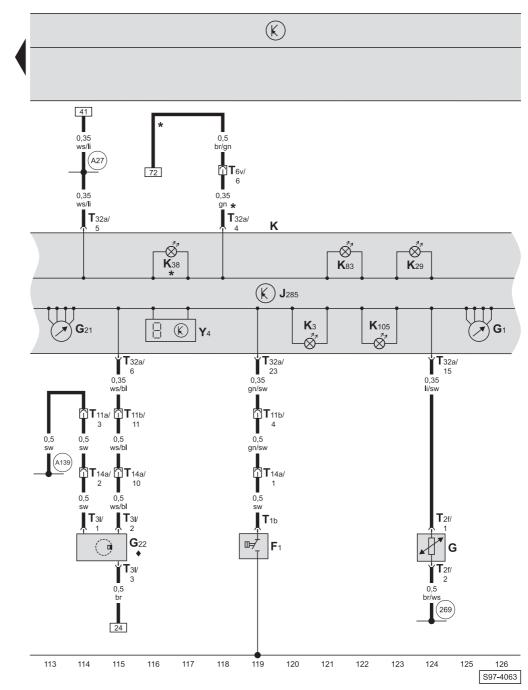
D52 - Positive connection (15a), in engine compartment wiring loom

 Connection -2- (87a), in wiring loom in left of engine compartment

- Connection -3- (87a), in engine compartment wiring loom

applies only to models with extended service interval (ESI)

Dash panel insert, control unit in dash panel insert, warning lights, oil pressure switch, fuel gauge sender, fuel pump, speedometer sender, fuel gauge, speedometer, odometer display



red ro br = brown gn = green = blue bl

=

WS =

SW

white

black

= gr grey li purple = yellow ge

orange

=

F1 Oil pressure switch

G Fuel gauge sender

G1 Fuel gauge

G21 Speedometer

G22 Speedometer sender

J285 Control unit in dash panel insert

Κ Dash panel insert

K3 Oil pressure warning lamp

K29 Glow period warning lamp K38 Oil level indicator light

K83 Exhaust gas warning lamp

K105 Reserve fuel warning lamp

T<sub>1</sub>b 1-pin connector, at oil pressure switch T2f

2-pin connector, at fuel gauge sender T3I 3-pin connector, at speedometer sender

T<sub>6</sub>v 6-pin connector, at left of bulkhead (green)

T11a 11-pin connector, at left of bulkhead (white)

T11b 11-pin connector, at left of bulkhead (red)

T14a Connector, 14-pin, in left of engine compartment

(connection of the engine pre-assembly wiring loom/ engine compartment wiring loom)

T32a - 32-pin connector, at dash panel insert

Y4 Odometer display

A27

269 Earth connection (sender earth) -1-, in wiring harness behind dash panel

Connection (vehicle speed signal), in wiring loom behind dash panel

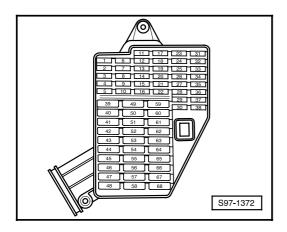
Positive connection (15), in wiring loom behind dash

applies only to models with extended service interval

not valid for vehicles with ABS/ABS with EDL and TCS/ESP

# 1.9 I - TDI with unit injection system/74 kW, engine code ATD, from August 2003

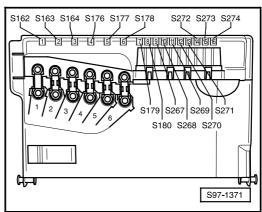
#### Fuse holder:



#### **Fuse colours**

30A - green 25A - white 20A - yellow 15A - blue 10A - red 7.5A - brown 5A - beige

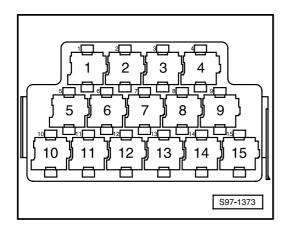
## Fuse holder on battery:



#### **Fuse colours**

30A - green 25A - white 20A - yellow 15A - blue 10A - red 7.5A - brown 5A - beige

#### Relay holder:



#### Relay position assignment:

3 - Glow plug relay

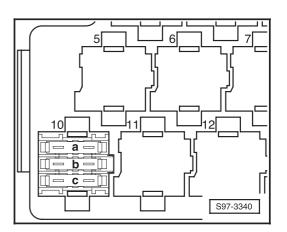
4 - Fuel pump relay

8 - Low heating capacity relay

9 - High heating capacity relay

15 - Diesel direct injection system relay

#### Additional fuse holder:



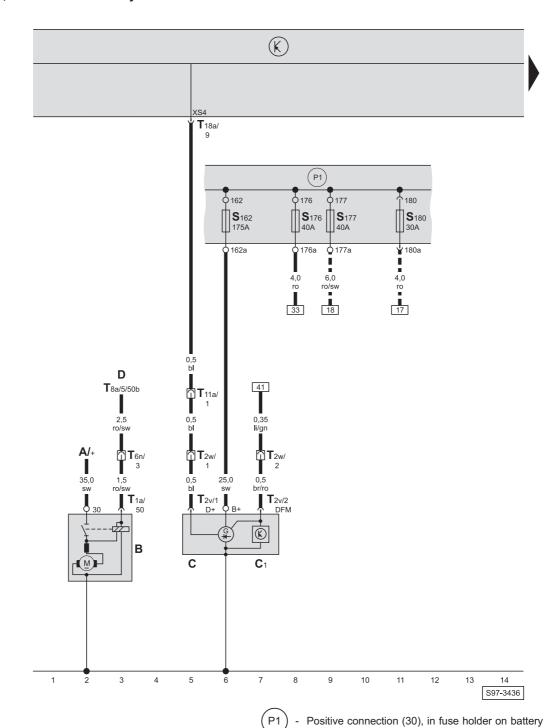
#### Fuse position assignment:

a - S276 - Fuse -1- for heating element

b - S277 - Fuse -2- for heating element

c - S278 - Fuse -3- for heating element

#### Starter, alternator, fuse holder on battery



= white = black SW ro red br = brown gn = green = blue bl = gr grey = li purple = yellow ge

WS

Α Battery В Starter С Alternator C1 Voltage regulator

= orange

D Ignition/starter switch

S162 -Fuse -1- (30), in fuse holder on battery S176 Fuse -4- (30), in fuse holder on battery Fuse -5- (30), in fuse holder on battery S177 S180 Fuse -8- (30), in fuse holder on battery

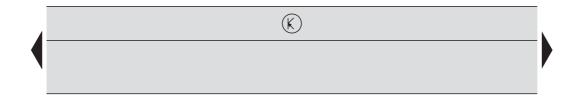
T1a 1-pin connector, at starter T2v 2-pin connector, at alternator

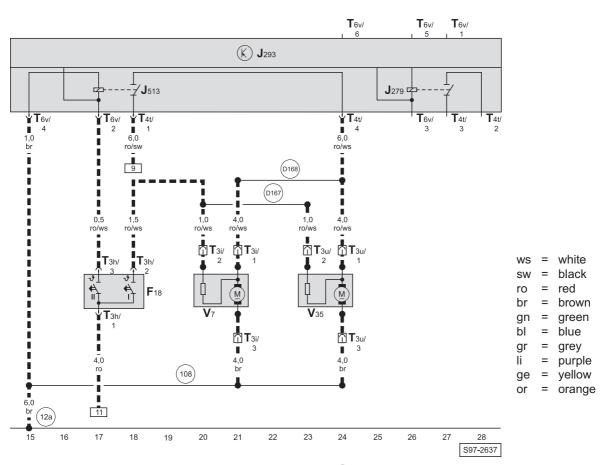
T2w 2-pin connector, in bracket at gearbox T6n 6-pin connector, at left of bulkhead (blue) 8-pin connector, at ignition/starter switch T11a - 11-pin connector, at left of bulkhead (white) T18a 18-pin connector, at electrical system control unit

(brown)

Does not apply to models with air conditioning

Radiator fan control unit, radiator fan thermoswitch, radiator fan





F18 - Radiator fan thermoswitch

J279 - Radiator fan relay, stage 1

J293 - Radiator fan control unit

J513 - Radiator fan relay, stage 2

T3h - 3-pin connector, at radiator fan thermoswitch

T3i - 3-pin connector, in bracket on left of radiator

T3u - 3-pin connector, in bracket on left of radiator

T4t - 4-pin connector, at radiator fan control unit

T6v - 6-pin connector, at radiator fan control unit V7 - Radiator fan

V35 - Radiator fan, right

12a) - Ea

- Earth point -2-, in engine compartment, on left below battery (at side member)

108) - Earth connection, in front left wiring harness

D167

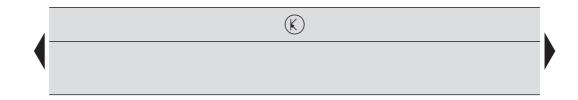
Connection (fan stage 1), in engine compartment wiring loom

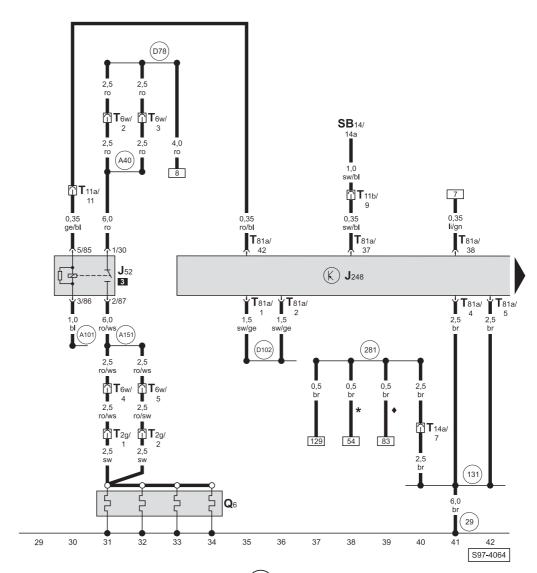
D168 - Conne

- Connection (fan stage 2), in engine compartment wiring loom

■ ■ - Does not apply to models with air conditioning

Diesel direct injection system control unit, glow plug relay, glow plugs





= white WS = black SW red ro br = brown gn = green = blue bl grey gr li = purple yellow ge

J52 - Glow plug relay

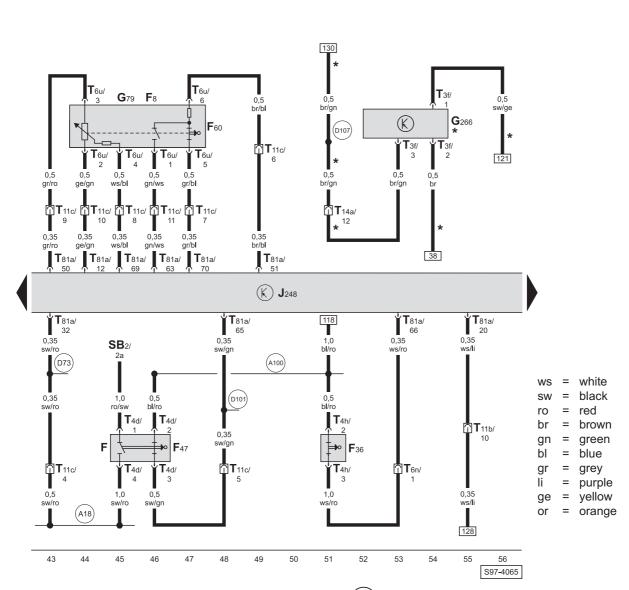
= orange

- J248 Diesel direct injection system control unit
- Q6 Glow plugs
- SB14 Fuse, in fuse holder
- T2g 2-pin connector, in left of engine compartment (connection of engine assembly wiring loom/engine compartment wiring loom)
- T6w 6-pin connector, at left of bulkhead (grey)
- T11a 11-pin connector, at left of bulkhead (white)
- T11b 11-pin connector, at left of bulkhead (red)
- T14a Connector, 14-pin, in left of engine compartment (connection of the engine pre-assembly wiring loom/ engine compartment wiring loom)
- T81a 81-pin connector, at engine control unit

- 29 Earth point, in left of engine compartment, behind battery (at suspension strut mounting)
- 131) Earth connection -2-, in engine compartment wiring harness
- Earth connection -1-, in engine pre-assembly wiring
- A40) Positive connection (30a), in wiring loom behind dash panel
- (A101) Connection (87), in wiring loom behind dash panel
- (A151) Connection (87), in wiring loom behind dash panel
- D78 Positive connection -1- (30a), in engine compartment wiring loom
  - 102) Connection -2- (87a), in wiring loom in left of engine compartment
- applies only to models with extended service interval (ESI)
- Applies only to models with optional equipment

Control unit for Diesel direct injection system, Accelerator pedal position sender, Brake pedal switch, Clutch pedal switch, Oil level/oil temperature sender



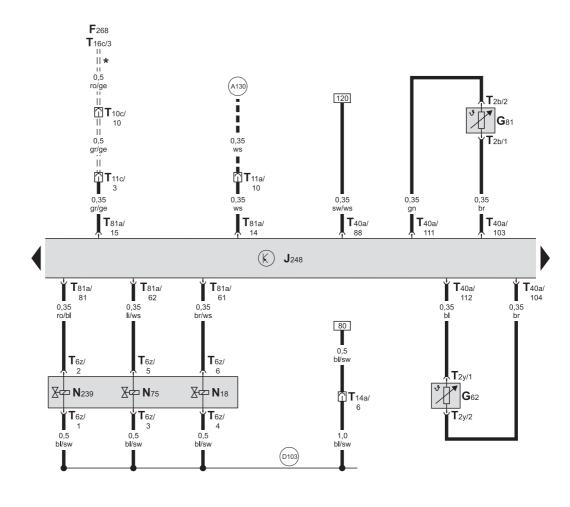


- F Brake light switch
- F8 Kickdown switch
- F36 Clutch pedal switch
- F47 Brake pedal switch
- F60 Idling speed switch
- G79 Accelerator position sender
- G266 Oil level/oil temperature sender
- J248 Diesel direct injection system control unit
- SB2 Fuse, in fuse holder
- T3f Connector, 3-pin, at oil level/oil temperature sender
- T4d 4-pin connector, at brake pedal switch
- T4h 4-pin connector, at clutch pedal switch
- T6n 6-pin connector, at left of bulkhead (blue)
- T6u 6-pin connector, at accelerator pedal position sender
- T11b 11-pin connector, at left of bulkhead (red)
- T11c 11-pin connector, at left of bulkhead (blue)
  - La Connector, 14-pin, in left of engine compartment (connection of the engine pre-assembly wiring loom/ engine compartment wiring loom)
- T81a 81-pin connector, at engine control unit

- (A18) Connection (54), in wiring loom behind dash panel
- A100) Connection (87a), in wiring loom behind dash panel
- (D73) Connection (54), in left of engine compartment wiring
- D101) Connection (brake pedal switch), in engine compartment wiring loom
- D107 Connection -5- (Oil level/oil temperature sender), left in engine compartment wiring harness
- applies only to models with extended service interval (ESI)

Diesel direct injection system control unit, coolant temperature sender, fuel temperature sender, exhaust gas recirculation valve, charge pressure control solenoid valve, intake manifold flap changeover valve





= white WS = black SW = red ro br = brown gn = green = blue bl = gr grey li = purple = yellow

= orange

ge

F268 - Heater element contact switch (PTC)

Coolant temperature sender G62

Fuel temperature sender G81

J248 Diesel direct injection system control unit

N18 EGR valve

N75 Boost pressure control solenoid valve

Intake manifold flap changeover valve N239 -

Plug connection, 2-pin, at fuel temperature sender T2b

57

58

59

60

61

62

T2y 2-pin connector, at coolant temperature sender

T6z Connector, 6-pin, at valve block

T10c - 10-pin connector, behind dash panel on right

T11a - 11-pin connector, at left of bulkhead (white)

T11c - 11-pin connector, at left of bulkhead (blue)

Connector, 14-pin, in left of engine compartment (connection of the engine pre-assembly wiring loom/

engine compartment wiring loom)

T16c - 16-pin connector, at fresh air controls

T40a 40-pin connector, at engine control unit T81a - 81-pin connector, at engine control unit (A130

63

Connection (CCS), in wiring loom behind dash panel

68

70 S97-3509

D103

64

65

Connection -3- (87a), in engine compartment wiring loom

does not apply to models with air conditioning

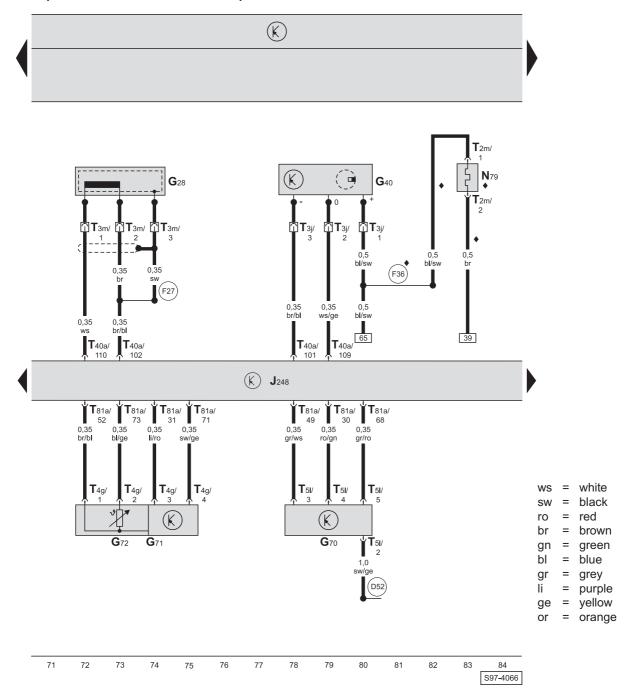
67

Applies only to models with CCS

66

Applies only to models with heating element (PTC)

Diesel direct injection system control unit, engine speed sender, camshaft position sender, air mass meter, intake manifold pressure and intake manifold temperature sender



G28 - Engine speed sender

G40 - Camshaft position sender

G70 - Air mass meter

G71 - Intake manifold pressure sender

G72 - Intake manifold temperature sender

N79 - Crankcase breather heater element

J248 - Diesel direct injection system control unit

T2m - 2-pin connector, at crankcase breather heater

element

T3j - 3-pin connector, at camshaft position sender

T3m - 3-pin connector, at engine speed sender

T4g - 4-pin connector, at intake manifold pressure and

intake manifold temperature sender

T5I - 5-pin connector, at air mass meter

T40a - 40-pin connector, at engine control unit T81a - 81-pin connector, at engine control unit (D52)

- Positive connection (15a), in engine compartment wiring loom

wiring lo

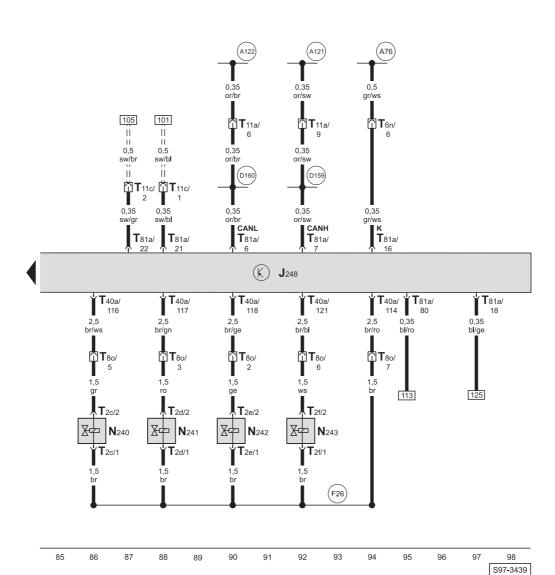
 Connection (screening), in engine pre-wiring wiring harness
 Positive connection (87a), in engine assembly wiring

✓ loom

Applies only to models with optional equipment

Diesel direct injection system control unit, unit injectors





= black SW red ro br = brown gn = green = blue bl = grey gr li = purple yellow ge

=

WS

white

orange

J248 - Diesel direct injection system control unit

N240 -Unit injector, cylinder 1

N241 -Unit injector, cylinder 2

N242 Unit injector, cylinder 3

N243 -Unit injector, cylinder 4

T2c 2-pin connector at unit injector valves, No. 1 cyl

T2d Plug connection, 2-pin, at unit injector, cylinder 2 T2e Plug connection, 2-pin, at unit injector, cylinder 3

T2f Plug connection, 2-pin, at unit injector, cylinder 4

6-pin connector, at left of bulkhead (blue) T<sub>6</sub>n T8o Plug connection, 8-pin, at cylinder head

T11a - 11-pin connector, at left of bulkhead (white)

T11c - 11-pin connector, at left of bulkhead (blue)

T40a - 40-pin connector, at engine control unit

T81a - 81-pin connector, at engine control unit

A76

A121

Connection (K diagnosis wire), in wiring loom behind dash panel on left

Connection (CAN-H), in wiring loom behind dash panel on

Connection (CAN-L), in wiring loom behind dash panel

Connection (CAN-H), in engine compartment wiring

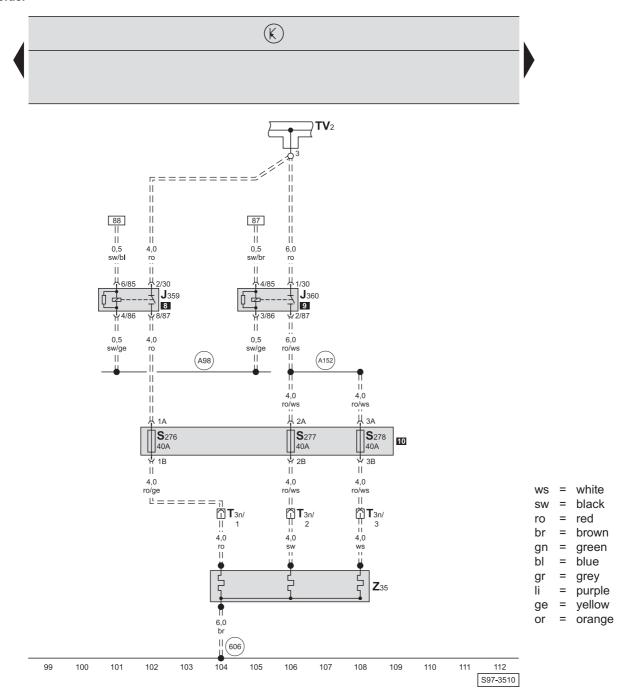
D159

(D160) Connection (CAN-L), in engine compartment wiring

F26 Connection (earth), in cylinder head wiring loom

Applies only to models with heating element (PTC)

Low heating capacity relay, high heating capacity relay, heating element for additional heater (PTC), additional fuse holder



J359 - Low heating capacity relay

J360 - High heating capacity relay

S276 - Fuse -1- for heater element

S277 - Fuse -2- for heater element

S278 - Fuse -3- for heater element

T3n - 3-pin connector, behind dash panel (at PTC heating

element)

TV2 - Terminal 30 junction, behind dash panel on left

Z35 - Additional heating heater element (PTC)

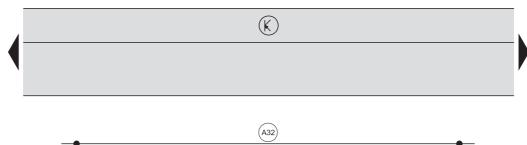
606) - Earth point, under the centre console, near gear stick

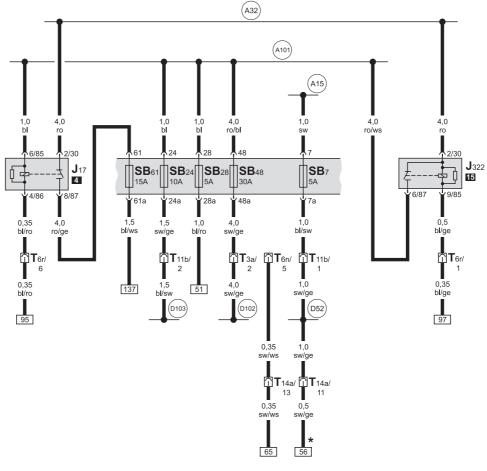
A98) - Positive connection (30a), in wiring loom behind dash panel (applies only to models with telephone system)

(A152) - Connection (87), in wiring harness behind dash panel

=== - Applies only to models with heating element (PTC)

Fuel pump relay, diesel direct injection system relay, fuse holder





= white WS = black SW red ro br = brown gn = green = blue bl gr grey purple yellow ge

> 113 114 115 116 117 118 119 120 121 122 123 124 125 <u>126</u> S97-4067

> > A15

A32

D102

J17 - Fuel pump relay

= orange

J322 - Diesel direct injection system relay

T3a - 3-pin connector, at left of bulkhead (grey)

T6n - 6-pin connector, at left of bulkhead (blue)

T6r - 6-pin connector, at left of bulkhead (brown)

T11b - 11-pin connector, at left of bulkhead (red)

T14a - Connector, 14-pin, in left of engine compartment (connection of the engine pre-assembly wiring loom/ engine compartment wiring loom)

) - Positive connection (15), in wiring loom behind dash panel

 Positive connection (30a), in wiring loom behind dash panel on left

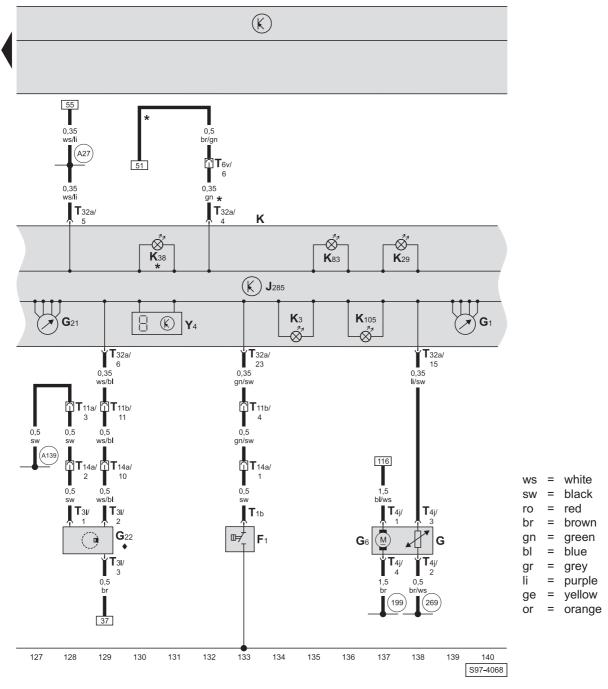
A101) - Connection (87), in wiring loom behind dash panel

D52) - Positive connection (15a), in engine compartment wiring loom

 Connection -2- (87a), in wiring loom in left of engine compartment

(D103) - Connection -3- (87a), in engine compartment wiring loom

 applies only to models with extended service interval (ESI) Dash panel insert, control unit in dash panel insert, warning lights, oil pressure switch, fuel gauge sender, fuel pump, speedometer sender, fuel gauge, speedometer, odometer display



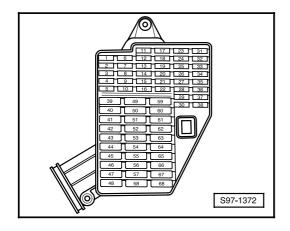
- F1 - Oil pressure switch
- G Fuel gauge sender
- G1 Fuel gauge
- G6 Fuel pump
- G21 Speedometer
- G22 Speedometer sender
- J285 Control unit in dash panel insert
- Κ Dash panel insert
- K3 Oil pressure warning lamp
- K29 Glow period warning lamp
- K38 Oil level indicator light
- K83 Exhaust gas warning lamp
- K105 -Reserve fuel warning lamp
- T1b 1-pin connector, at oil pressure switch
- T31 3-pin connector, at speedometer sender
- T4j 4-pin connector, at fuel pump
- T<sub>6</sub>v 6-pin connector, at left of bulkhead (green)
- T11a - 11-pin connector, at left of bulkhead (white)
- T11b 11-pin connector, at left of bulkhead (red)

- Connector, 14-pin, in left of engine compartment (connection of the engine pre-assembly wiring loom/ engine compartment wiring loom)
- T32a 32-pin connector, at dash panel insert
- Y4 Odometer display
- 199 Earth connection, in wiring harness behind dash
- 269 Earth connection (sender earth) -1-, in wiring harness behind dash panel
- A27 Connection (vehicle speed signal), in wiring loom behind dash panel
  - Positive connection (15), in wiring loom behind dash
- applies only to models with extended service interval (ESI)
- not valid for vehicles with ABS/ABS with EDL and TCS/ESP

### Anti-lock brake system (ABS)

# Antilock brake system(ABS) with differential lock (EDL) and traction control system (TCS), from August 2003

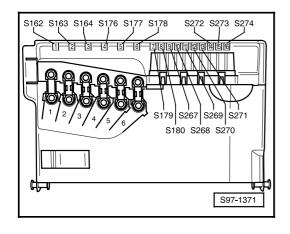
#### Fuse holder:



#### **Fuse colours**

30A - green 25A - white 20A - yellow 15A - blue 10A - red 7.5A - brown 5A - beige

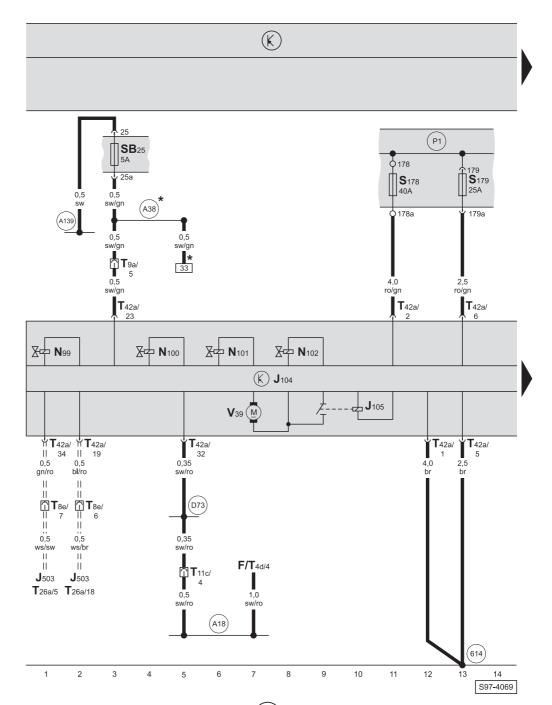
#### Fuse holder on battery:



#### **Fuse colours**

30A - green 25A - white 20A - yellow 15A - blue 10A - red 7.5A - brown 5A - beige

#### ABS/ABS with EDL and TCS control unit, fuse holder on battery, fuse holder



red ro br = brown gn = green = blue bl =

=

=

WS

SW

gr

white

black

grey

li = purple = yellow ge

= orange

- Brake light switch

J104 - ABS/ABS with EDL and TCS control unit

J105 - Return delivery pump relay ABS

J503 Navigation system control unit

N99 ABS inlet valve, front right

N100 - ABS outlet valve, front right

ABS inlet valve, front left N101

N102 -ABS outlet valve, front left

Fuse -6- (30), in fuse holder on battery

Fuse -7- (30), in fuse holder on battery S179 -

T4d 4-pin connector, at brake pedal switch

T8e Plug connection, 8-pin, at left of bulkhead (orange)

T9a Connector, 9-pin, at left of bulkhead (yellow)

11-pin connector, at left of bulkhead (blue)

T26a 26-pin connector, at navigation system control unit

T42a Connector, 42-pin, at ABS/ABS with EDL and TCS

control unit

V39 - ABS return delivery pump 614 Earth point -2-, in rear right of engine compartment

A18 Connection (54), in wiring loom behind dash panel

A38 Positive connection -2- (15a), in wiring loom behind

A139 Positive connection (15), in wiring loom behind dash panel

D73 Connection (54), in left of engine compartment wiring

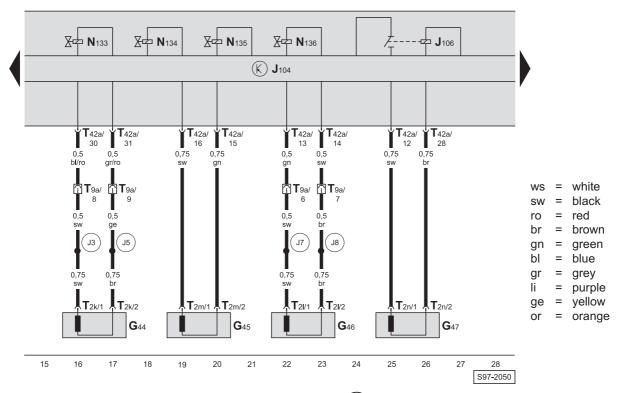
Positive connection (30), in fuse holder on battery

Applies only to models with TCS

applies only to models with navigation system

#### ABS/ABS with EDL and TCS control unit, wheel speed sensors

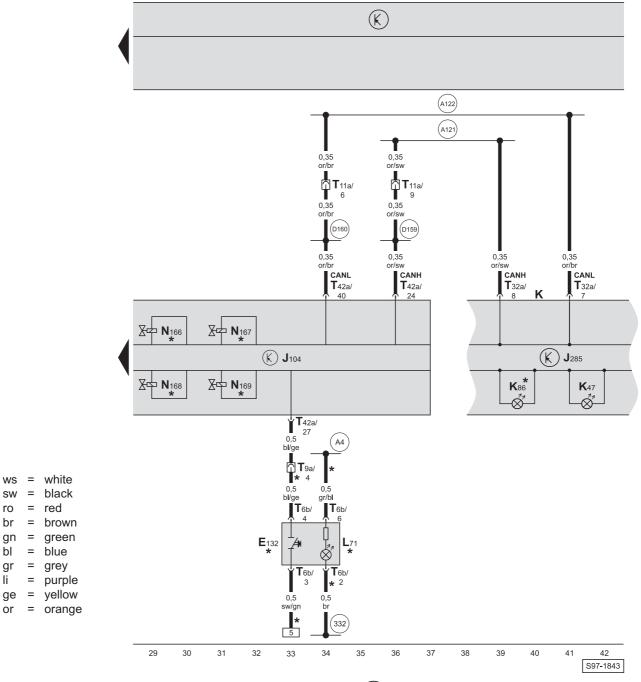




- G44 Wheel speed sensor, rear right
- G45 Wheel speed sensor, front right
- G46 Wheel speed sensor, rear left
- G47 Wheel speed sensor, front left
- J104 ABS/ABS with EDL and TCS control unit
- J106 ABS solenoid valves relay
- N133 ABS inlet valve, rear right
- N134 ABS inlet valve, rear left
- N135 ABS outlet valve, rear right
- N136 ABS outlet valve, rear left
- T2k 2-pin connector, at rear right wheel speed sensor
- T2I 2-pin connector, at rear left wheel speed sensor
- T2m 2-pin connector, at front right wheel speed sensor
- T2n 2-pin connector, at front left wheel speed sensor
  T9a Connector, 9-pin, at left of bulkhead (yellow)
- T42a Connector, 42-pin, at ABS/ABS with EDL and TCS control unit

- (J3) Connection, in rear right wiring loom
- J5) Connection, in rear right wiring loom
- (J7) Connection, in rear left wiring loom
- (J8) Connection, in rear left wiring loom

#### ABS/ABS with EDL and TCS control unit, TCS switch, dash panel insert



A4

A121

A122

D159

E132 - TCS switch

ro

br

bl gr

li

J104 - ABS/ABS with EDL and TCS control unit

J285 Control unit in dash panel insert

Dash panel insert - ABS warning lamp K47

K86 - Traction control system warning lamp

TCS switch lighting L71

N166 - Front right EDL changeover valve N167 - Front right EDL outlet valve N168 - Front left EDL changeover valve N169 -Front left EDL outlet valve

T6b Connector, 6-pin, at TCS switch

T9a Connector, 9-pin, at left of bulkhead (yellow) 11-pin connector, at left of bulkhead (white) T32a -32-pin connector, at dash panel insert

T42a Connector, 42-pin, at ABS/ABS with EDL and TCS control unit

332 Earth connection, in wiring harness behind dash panel

Positive connection (58b), in wiring loom behind dash panel

Connection (CAN-H), in wiring loom behind dash panel on

Connection (CAN-L), in wiring loom behind dash

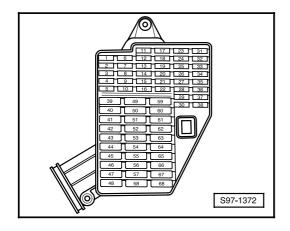
Connection (CAN-H), in engine compartment wiring loom

D160 Connection (CAN-L), in engine compartment wiring

- Applies only to models with TCS

# Anti-lock brake system (ABS) with electronic differential lock (EDL), traction control system (TCS), electronic stabilisation program (ESP), from August 2003

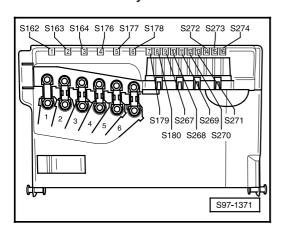
#### Fuse holder:



#### **Fuse colours**

30A - green 25A - white 20A - yellow 15A - blue 10A - red 7.5A - brown 5A - beige

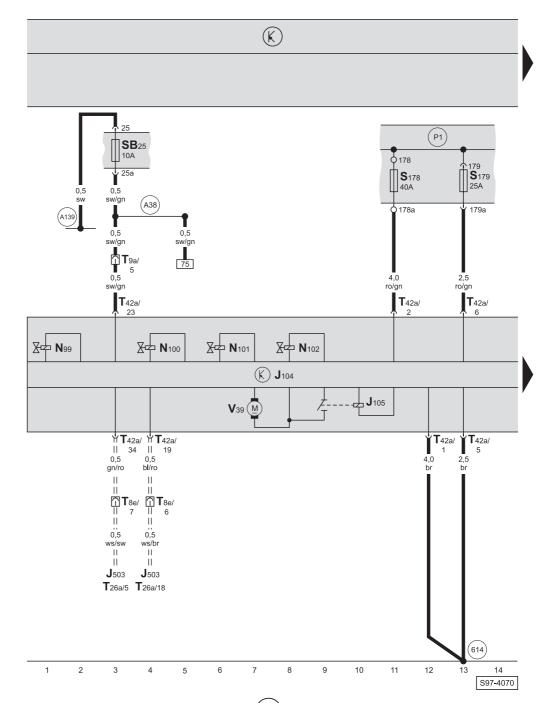
#### Fuse holder on battery:



#### **Fuse colours**

30A - green 25A - white 20A - yellow 15A - blue 10A - red 7.5A - brown 5A - beige

#### ABS with EDL and TCS/ESP control unit, fuse holder on battery, fuse holder



red ro br = brown gn = green = blue bl

black

grey

= white

WS =

SW

gr

= li purple = yellow ge = orange

J104 - ABS with EDL and TCS/ ESP control unit

J105 - Return delivery pump relay - ABS

- Navigation system control unit J503

N99 ABS inlet valve, front right

N100 - ABS outlet valve, front right

N101 - ABS inlet valve, front left

N102 - ABS outlet valve, front left

S178 - Fuse -6- (30), in fuse holder on battery

S179 -Fuse -7- (30), in fuse holder on battery

Plug connection, 8-pin, at left of bulkhead (orange) T8e

T9a Connector, 9-pin, at left of bulkhead (yellow)

T26a - 26-pin connector, at navigation system control unit

Connector, 42-pin, at ABS with EDL and TCS/ ESP T42a

control unit

V39 - ABS return delivery pump 614 Earth point -2-, in rear right of engine compartment

A38 Positive connection -2- (15a), in wiring loom behind dash panel

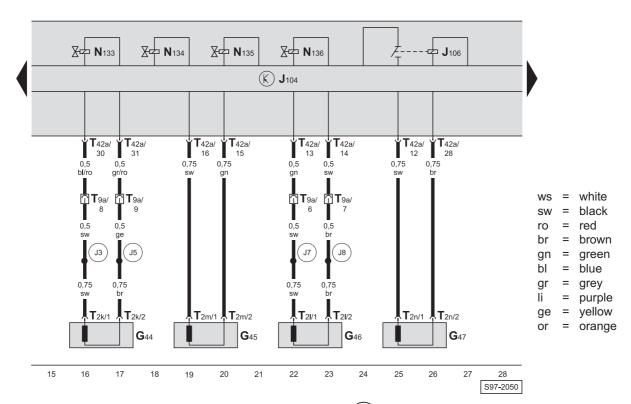
A139 Positive connection (15), in wiring loom behind dash

Positive connection (30), in fuse holder on battery

applies only to models with navigation system

#### ABS with EDL and TCS/ ESP control unit, wheel speed sensors



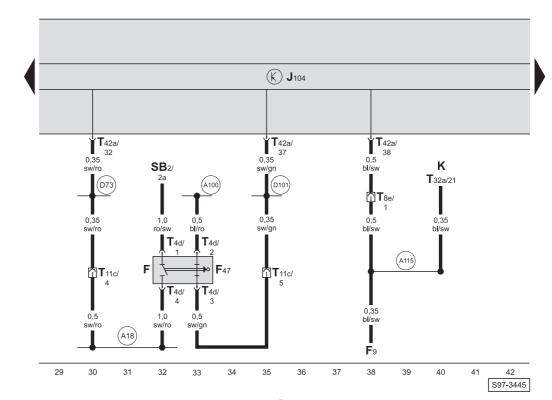


- G44 Wheel speed sensor, rear right
- G45 Wheel speed sensor, front right
- G46 Wheel speed sensor, rear left
- G47 Wheel speed sensor, front left
- J104 ABS with EDL and TCS/ ESP control unit
- J106 ABS solenoid valves relay
- N133 ABS inlet valve, rear right
- N134 ABS inlet valve, rear left
- N135 ABS outlet valve, rear right
- N136 ABS outlet valve, rear left
- T2k 2-pin connector, at rear right wheel speed sensor
- T2I 2-pin connector, at rear left wheel speed sensor
- T2m 2-pin connector, at front right wheel speed sensor
- T2n 2-pin connector, at front left wheel speed sensor
  T9a Connector, 9-pin, at left of bulkhead (yellow)
- T42a Connector, 42-pin, at ABS with EDL and TCS/ ESP control unit

- J3) Connection, in rear right wiring loom
- (J5) Connection, in rear right wiring loom
- (J7) Connection, in rear left wiring loom
- (J8) Connection, in rear left wiring loom

ABS with EDL and TCS/ ESP control unit, brake pedal switch





(D101

= white WS = black SW ro red br = brown gn = green = blue bl = gr grey = li purple = yellow ge = orange

F - Brake light switch

F9 - Handbrake warning switch

F47 - Brake pedal switch

J104 - ABS with EDL and TCS/ ESP control unit

K - Dash panel insertSB2 - Fuse, in fuse holder

T4d - 4-pin connector, at brake pedal switch

T8e - Plug connection, 8-pin, at left of bulkhead (orange)

T11c - 11-pin connector, at left of bulkhead (blue)
T32a - 32-pin connector, at dash panel insert

T42a - Connector, 42-pin, at ABS with EDL and TCS/ ESP control unit

A18) - Connection (54), in wiring loom behind dash panel

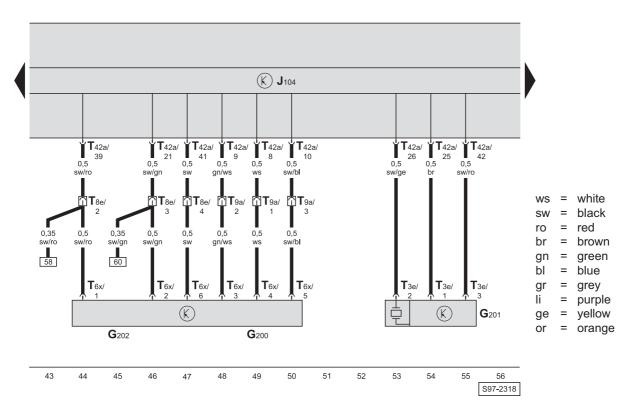
(A100) - Connection (87a), in wiring loom behind dash panel

A115 - Connection (handbrake indicator), in wiring loom behind dash panel

Connection (54), in left of engine compartment wiring loom

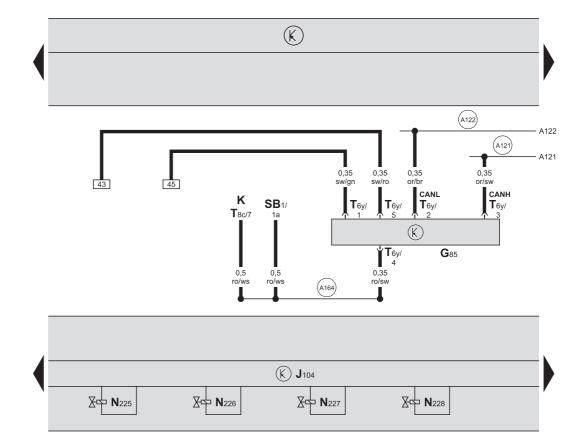
 Connection (brake pedal switch), in engine compartment wiring loom ABS with EDL and TCS/ESP control unit, brake pressure sender -1-, lateral acceleration sender, yaw rate sender





- G200 Lateral acceleration sender, below driver seat
- G201 Brake pressure sender -1-, at hydraulic unit
- G202 Yaw rate sender, below driver seat
- J104 ABS with EDL and TCS/ ESP control unit
- T3e Connector, 3-pin, at brake pressure sender -1-, at hydraulic unit
- T6x Connector, 6-pin, at lateral acceleration and yaw rate sender
- T8e Plug connection, 8-pin, at left of bulkhead (orange)
- T9a Connector, 9-pin, at left of bulkhead (yellow)
- T42a Connector, 42-pin, at ABS with EDL and TCS/ ESP control unit

#### ABS with EDL and TCS/ESP control unit, steering angle sender



white = WS = black SW ro red br = brown gn = green = blue bl gr grey = purple = yellow ge = orange

57 58 59 60 61 62 63 64 65 66 67 68 69 70 S97-2319

G85 - Steering angle sender

J104 - ABS with EDL and TCS/ ESP control unit

K - Dash panel insert

N225 - Electronic stability programme, valve -1-N226 - Electronic stability programme, valve -2-

N227 - Electronic stability programme high pressure valve -1-N228 - Electronic stability programme high pressure valve -2-

SB1 - Fuse, in fuse holder

T6y - Connector, 6-pin, at steering angle sender
T8c - 8-pin connector, at dash panel insert



- Connection (CAN-H), in wiring loom behind dash panel on

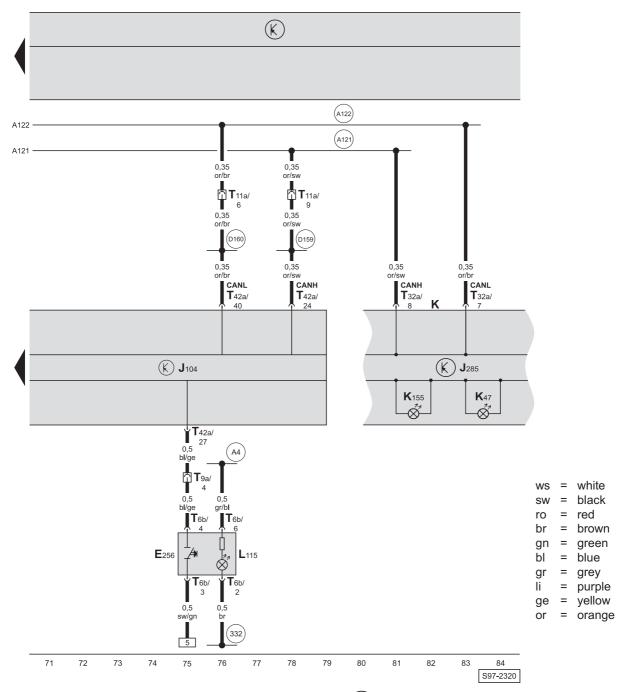


Connection (CAN-L), in wiring loom behind dash panel



 Positive connection (30a), in wiring loom behind dash panel

#### ABS with EDL and TCS/ESP control unit, TCS/ESP switch, dash panel insert



A4

A122

D159

E256 - TCS/ ESP switch

J104 - ABS with EDL and TCS/ ESP control unit

J285 - Control unit in dash panel insert

K - Dash panel insertK47 - ABS warning lamp

K155 - Warning lamp for stability programme

L115 - TCS/ ESP switch illumination

T6b - Connector, 6-pin, at TCS/ESP switch

T9a - Connector, 9-pin, at left of bulkhead (yellow)

T11a - 11-pin connector, at left of bulkhead (white)

T32a - 32-pin connector, at dash panel insert
 T42a - Connector, 42-pin, at ABS with EDL and TCS/ ESP control unit

- Earth connection, in wiring harness behind dash

) - Positive connection (58b), in wiring loom behind dash panel

- Connection (CAN-H), in wiring loom behind dash panel on

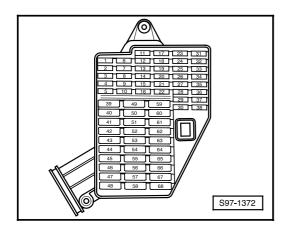
Connection (CAN-L), in wiring loom behind dash panel

Connection (CAN-H), in engine compartment wiring loom

(D160) - Connection (CAN-L), in engine compartment wiring loom

## Air conditioning, from August 2003

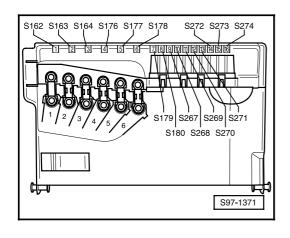
#### Fuse holder:



#### **Fuse colours**

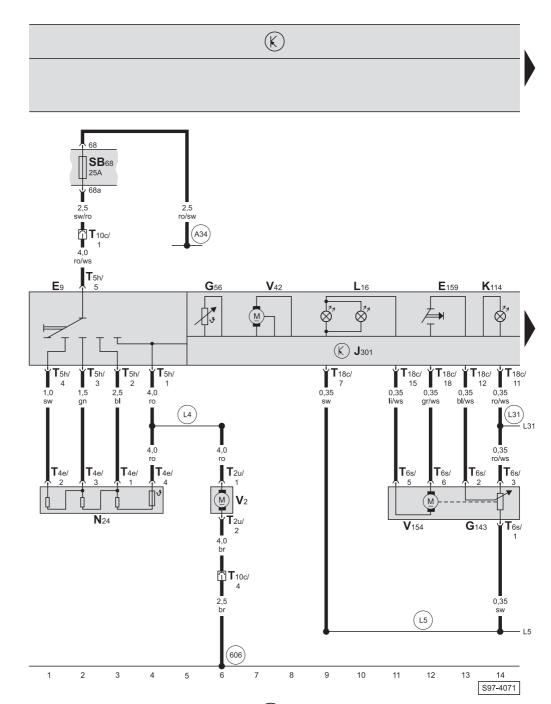
30A - green 25A - white 20A - yellow 15A - blue 10A - red 7.5A - brown 5A - beige

#### Fuse holder on battery:



#### **Fuse colours**

30A - green 25A - white 20A - yellow 15A - blue 10A - red 7.5A - brown 5A - beige Air conditioning control unit, fresh air blower, fresh and recirculated air flap positioning motor, fuse holder



red ro br = brown gn = green = blue bl gr grey

=

WS =

SW

white

black

li purple = yellow ge = orange

- Fresh air blower switch

E159 - Fresh and recirculated air flap switch

G56 - Dash panel temperature sensor

G143 - Fresh and recirculated air flap positioning motor potentiometer

J301 AC control unit

K114 - Fresh air and air recirculation operation warning lamp

L16 Air conditioning control lighting

N24 Series resistor with overheating fuse

2-pin connector, at fresh air blower T2u

T4e 4-pin connector, at fresh air blower series resistor

T5h - 5-pin connector, at fresh air blower switch

T6s 6-pin connector, at fresh/recirculated air flap

positioning motor

T10c - 10-pin connector, behind dash panel on right T18c - 18-pin connector, at air conditioning control unit

V2 - Fresh air blower

V42 Temperature sensor blower - dash panel

V154 - Fresh and recirculated air flap motor

606 Earth point, under the centre console, near gear stick

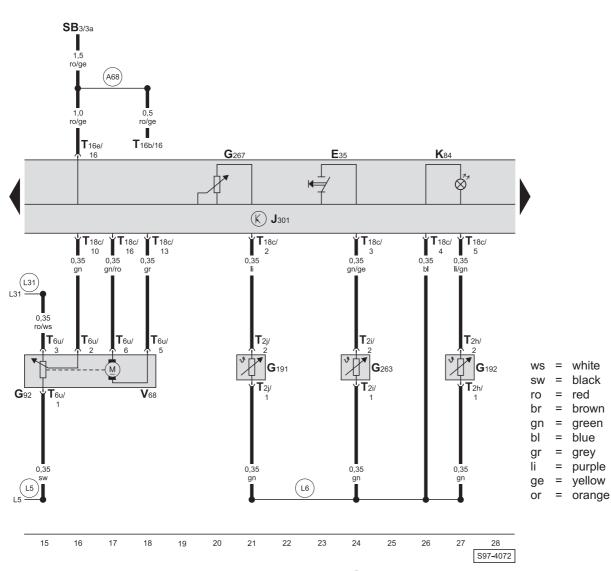
A34 Positive connection (75x), in wiring loom behind dash

L4 Connection (75al), in air conditioning wiring loom

L5 Connection (sender earth), in air conditioning wiring

L31 Connection (5V), in air conditioning wiring loom Air conditioning control unit, temperature flap positioning motor, temperature sender

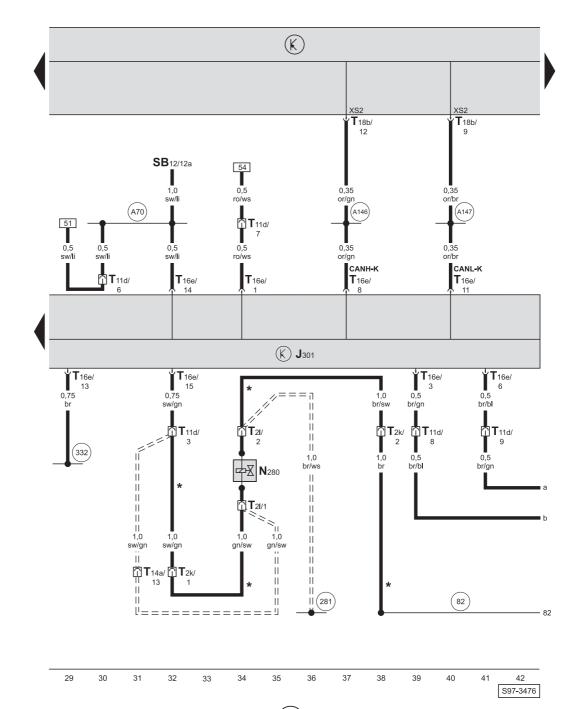




- E35 Air conditioner switch
- G92 Temperature flap positioning motor potentiometer
- G191 Centre outlet air temperature sender
- G192 Footwell vent temperature sender
- G263 Evaporator outlet air temperature sender
- G267 Temperature selector rotary knob potentiometer
- J301 AC control unit
- K84 Air conditioning warning light
- SB3 Fuse, in fuse holder
- T2h 2-pin connector at footwell vent temperatur sender
- T2i 2-pin connector at evaporator out-flow temperature sender
- T2j 2-pin connector at centre footwell vent
- temperatur sender
  T6u 6-pin connector, at temperature flap positioning motor
- T16b 16-pin connector, in glove box on driver's side
  - (diagnosis connection)
- T16e 16-pin connector, at AC control unit
- T18c 18-pin connector, at air conditioning control unit
- V68 Temperature flap positioning motor

- (A68)
- Positive connection (30a, AC), in wiring loom behind dash panel
- L5) Connection (sender earth), in air conditioning wiring loom
- L6) Connection (sender earth), in air conditioning wiring loom
- L31) Connection (5V), in air conditioning wiring loom

#### Air conditioning control unit, AC compressor control valve



A70

J301 - AC control unit

= white

=

= blue

black

brown

green

grey

= yellow

= orange

purple

red

WS

SW

ro

br =

gn =

bl

gr

ge

N280 - AC compressor control valve

SB12 - Fuse, in fuse holder

T2k - 2-pin connector, in bracket at gearbox

T2I - 2-pin connector, at compressor

T11d - 11-pin connector, at left of bulkhead (brown)

T14a - Connector, 14-pin, in left of engine compartment (connection of the engine pre-assembly wiring loom/ engine compartment wiring loom)

T16e - 16-pin connector, at AC control unit

T18b - 18-pin connector, at electrical system control unit (black)

82 - Earth connection, in front left wiring harness

281) - Earth connection -1-, in engine pre-assembly wiring loom

332) - Earth connection, in wiring harness behind dash panel

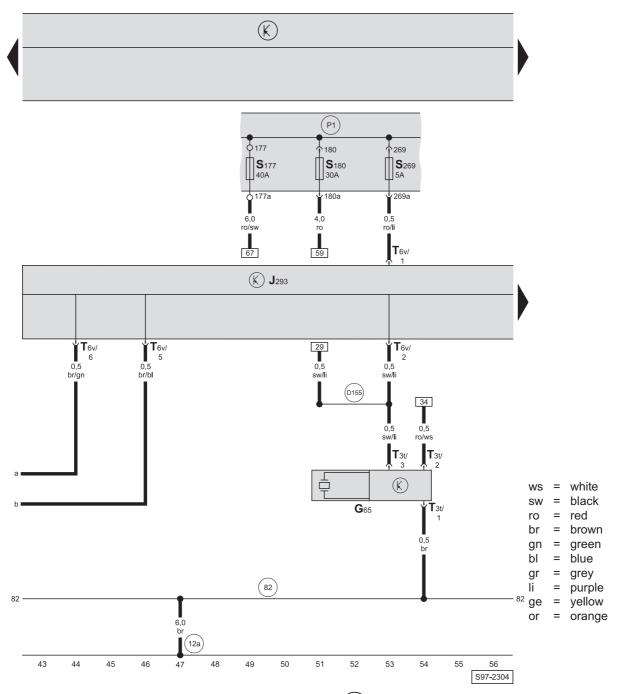
) - Positive connection (15a), in wiring loom behind dash panel

A146 - Connection (CAN-H, convenience), in wiring loom behind dash panel

) - Connection (CAN-L, convenience), in wiring loom behind dash panel

does not apply to engine code AWYapplies only to engine codes AWY

Radiator fan control unit, fuse holder on battery, high-pressure sensor



G65 - High-pressure sensor

J293 - Radiator fan control unit

S177 - Fuse -5- (30), in fuse holder on battery

S180 - Fuse -8- (30), in fuse holder on battery

S269 - Fuse -11- (30), in fuse holder on battery

T3t - 3-pin connector, at high-pressure sensor

T6v - 6-pin connector, at radiator fan control unit

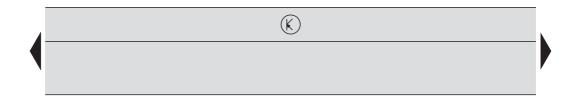
- Earth point -2-, in engine compartment, on left below battery (at side member)

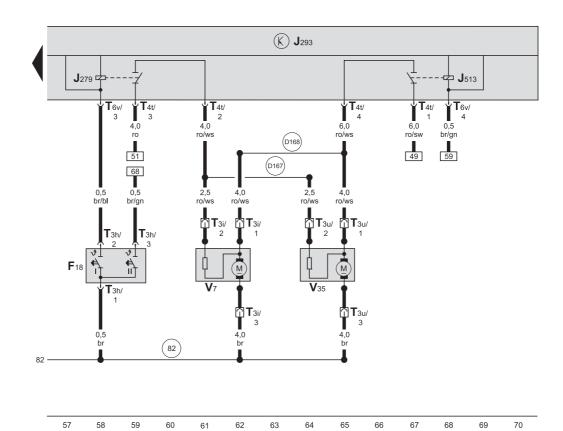
82 ) - Earth connection, in front left wiring harness

D155 - Connection (15, high-pressure sender), in engine compartment wiring loom

) - Positive connection (30), in fuse holder on battery

Radiator fan control unit, Radiator fan thermal switch, Radiator fan (not valid for engine code letters AMF)





= white WS = black SW ro red br = brown gn = green = blue bl gr grey = purple = yellow ge = orange

F18 - Radiator fan thermoswitch

J279 - Radiator fan relay, stage 1

J293 - Radiator fan control unit

J513 - Radiator fan relay, stage 2

T3h - 3-pin connector, at radiator fan thermoswitch
T3i - 3-pin connector, in bracket on left of radiator
T3u - 3-pin connector, in bracket on left of radiator
T4t - 4-pin connector, at radiator fan control unit
T6v - 6-pin connector, at radiator fan control unit

V7 - Radiator fan V35 - Radiator fan, right 82) - Earth

D168

- Earth connection, in front left wiring harness

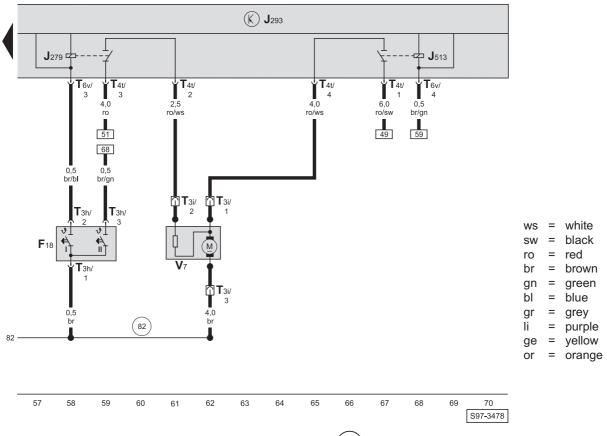
D167 - Connection (fan stage 1), in engine compartment wiring loom

 Connection (fan stage 2), in engine compartment wiring loom

S97-3477

Radiator fan control unit, Radiator fan thermal switch, Radiator fan (only for engine code letters AMF)





- Earth connection, in front left wiring harness

F18 - Radiator fan thermoswitch

J279 - Radiator fan relay, stage 1 J293 - Radiator fan control unit J513 - Radiator fan relay, stage 2

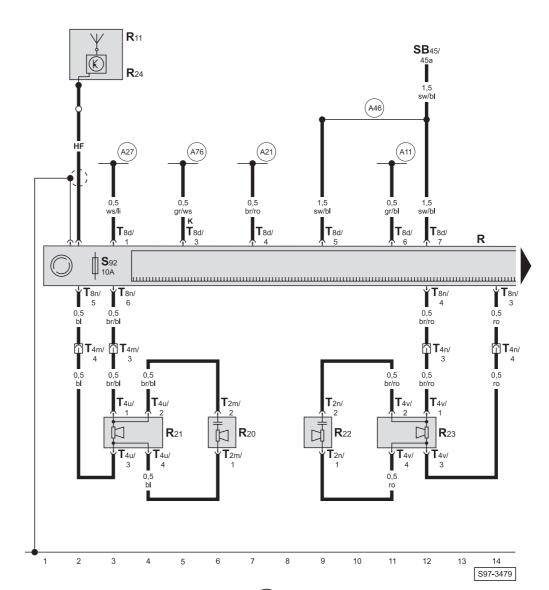
T3h - 3-pin connector, at radiator fan thermoswitch
T3i - 3-pin connector, in bracket on left of radiator
T4t - 4-pin connector, at radiator fan control unit
T6v - 6-pin connector, at radiator fan control unit

V7 - Radiator fan

Radio system, from August 2003

## Radio, front speakers, aerial





A46

= white WS = black SW red ro br = brown gn = green = blue bl gr grey purple yellow ge = orange

R - Radio

R11 - Aerial

R20 - Treble loudspeaker, front left
 R21 - Bass loudspeaker, front left
 R22 - Treble loudspeaker, front right

R23 - Bass loudspeaker, front right

R24 - Aerial amplifier S92 - Radio fuse

SB45 - Fuse, in fuse holder

T2m - 2-pin connector, at front left treble loudspeaker
T2n - 2-pin connector, at front right treble loudspeaker

T2n - 2-pin connector, at front right treble loudsp
T4m - 4-pin connector, at left A pillar (black)
T4n - 4-pin connector, at right A pillar (black)
T4u - 4-pin connector, at left front woofer
T4v - 4-pin connector, at right front woofer
T8d - 8-pin connector, at radio (black)
T8n - 8-pin connector, at radio (brown)

A11) - Positive connection (58b), in wiring loom behind dash panel

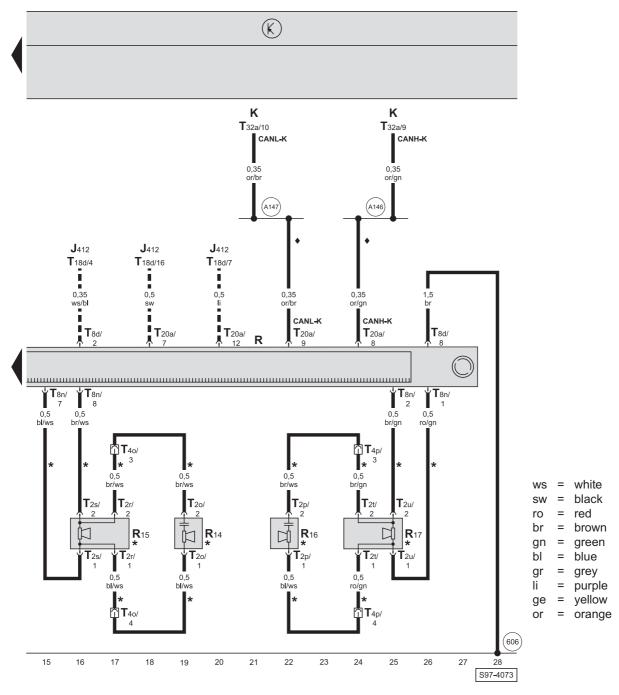
Positive connection (86s), in wiring loom behind dash panel

 Connection (vehicle speed signal), in wiring loom behind dash panel

- Positive connection (30 - from radio), in wiring loom behind dash panel

 Connection (K diagnosis wire), in wiring loom behind dash panel on left

## Radio, rear speakers

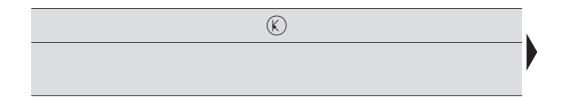


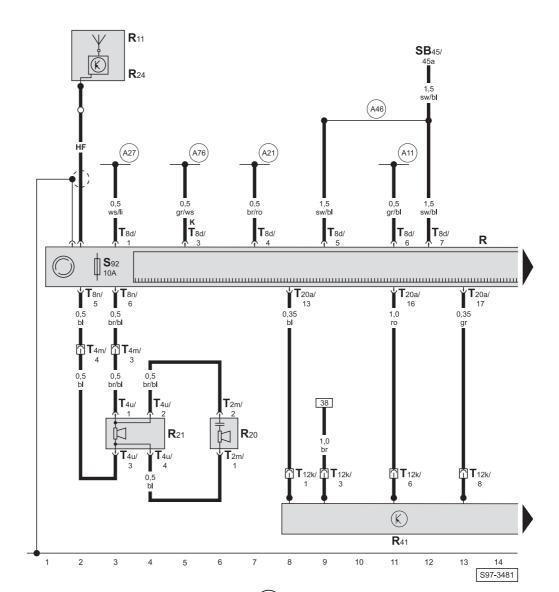
- J412 Control unit for telephone operating electronics (interface box)
- K Dash panel insert
- R Radio
- R14 Treble loudspeaker, rear left
- R15 Bass loudspeaker, rear left
- R16 Treble loudspeaker, rear right
- R17 Bass loudspeaker, rear right
- T2o 2-pin connector, at rear left treble loudspeaker
- T2p 2-pin connector, at rear right treble loudspeaker
- T2r 2-pin connector, at rear left bass loudspeaker
- T2s 2-pin connector, at rear left bass loudspeaker
- T2t 2-pin connector, at rear right bass loudspeaker
- T2u 2-pin connector, at rear right bass loudspeaker
- T4o 4-pin connector, at left B pillar (black)
- T4p 4-pin connector, at right B pillar (black)
- T8d 8-pin connector, at radio (black)
- T8n 8-pin connector, at radio (brown)
  T18d 18-pin connector, at control unit for telephone
  - operating electronics (interface box)
- T20a 20-pin connector, at radio

- T32a 32-pin connector, at dash panel insert
- (606) Earth point, under the centre console, near gear stick
- A146) Connection (CAN-H, convenience), in wiring loom behind dash panel
  - ) Connection (CAN-L, convenience), in wiring loom behind dash panel
- \* Applies only to models with 8 speakers
- Applies only to Symphony radio with CD and large information display in dash panel insert
- applies only to models with mobile phone preinstallation 2-Cullmann

Radio system with CD changer, from August 2003

Radio, front speakers, CD changer, aerial





A46

= white WS = black SW ro red br = brown gn = green = blue bl gr grey purple yellow ge = orange

R - Radio

R11 - Aerial

R20 - Treble loudspeaker, front left R21 - Bass loudspeaker, front left

R24 - Aerial amplifier R41 - CD changer

S92 - Radio fuse

SB45 - Fuse, in fuse holder

T2m - 2-pin connector, at front left treble loudspeaker

T2m - 2-pin connector, at front left treble four T4m - 4-pin connector, at left A pillar (black) - 4-pin connector, at left front woofer - 8-pin connector, at radio (black) - 8-pin connector, at radio (brown) - 12-pin connector, at CD changer - 20-pin connector, at radio

A11) - Positive connection (58b), in wiring loom behind dash

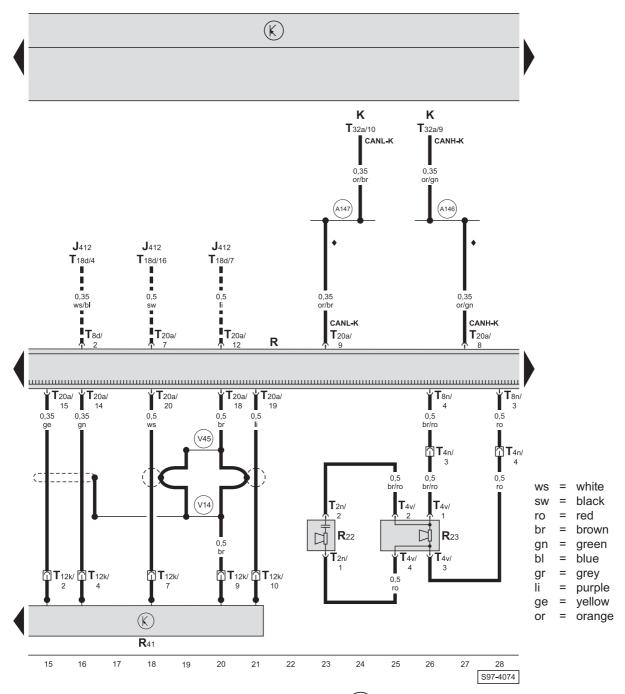
Positive connection (86s), in wiring loom behind dash panel

 Connection (vehicle speed signal), in wiring loom behind dash panel

- Positive connection (30 - from radio), in wiring loom behind dash panel

 Connection (K diagnosis wire), in wiring loom behind dash panel on left

## Radio, front speakers, CD changer

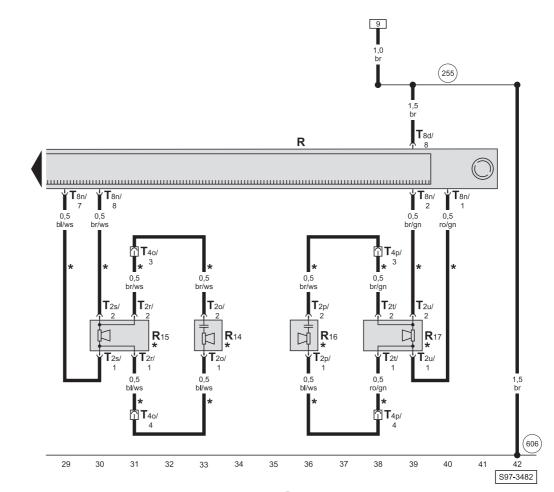


- J412 Operating electronics/telephone control unit (Interface box)
- K Dash panel insert
- R Radio
- R22 Treble loudspeaker, front right
- R23 Bass loudspeaker, front right
- R41 CD changer
- T2n 2-pin connector, at front right treble loudspeaker
- T4n 4-pin connector, at right A pillar (black)
- T4v 4-pin connector, at right front woofer
- T8d 8-pin connector, at radio (black)
- T8n 8-pin connector, at radio (black)
- T12k 12-pin connector, at CD changer
- T18d 18-pin connector, at control unit for telephone
- operating electronics (interface box) T20a 20-pin connector, at radio
- T32a 32-pin connector, at dash panel insert

- A146 Connection (CAN-H, convenience), in wiring loom behind dash panel
- A147) Connection (CAN-L, convenience), in wiring loom behind dash panel
- V14) Connection (screening), in CD changer wiring loom
- (V45) Connection -2- (screening), in CD changer wiring harness
- Applies only to Symphony radio with CD and large information display in dash panel insert
- applies only to models with mobile phone preinstallation 2-Cullmann

## Radio, rear speakers





white = black SW ro red br = brown green gn = = blue bl gr grey = purple = yellow ge = orange

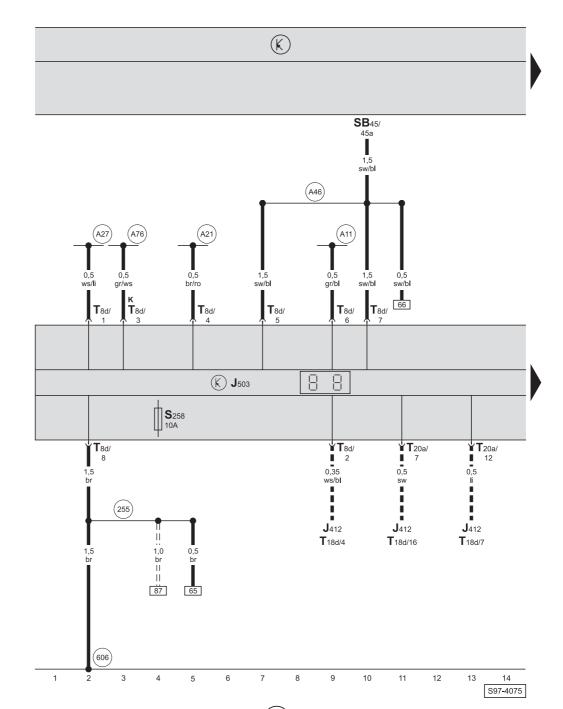
WS

- Radio R
- R14 Treble loudspeaker, rear left
- R15 Bass loudspeaker, rear left
- R16 Treble loudspeaker, rear right
- Bass loudspeaker, rear right R17
- 2-pin connector, at rear left treble loudspeaker T2o
- 2-pin connector, at rear right treble loudspeaker T2p
- 2-pin connector, at rear left bass loudspeaker T2r
- T2s 2-pin connector, at rear left bass loudspeaker
- 2-pin connector, at rear right bass loudspeaker T2t
- T2u 2-pin connector, at rear right bass loudspeaker
- 4-pin connector, at left B pillar (black) T4o
- T4p 4-pin connector, at right B pillar (black) T8d 8-pin connector, at radio (black)
- 8-pin connector, at radio (brown) T8n

- (255
- Earth connection -1-, in wiring loom behind dash
- 606
  - Earth point, under the centre console, near gear stick
- Applies only to models with 8 speakers

Navigation system with CD changer, from August 2003

## Navigation system control unit



= black SW red ro br = brown gn = green = blue bl = gr grey = purple = yellow ge

= orange

=

WS

white

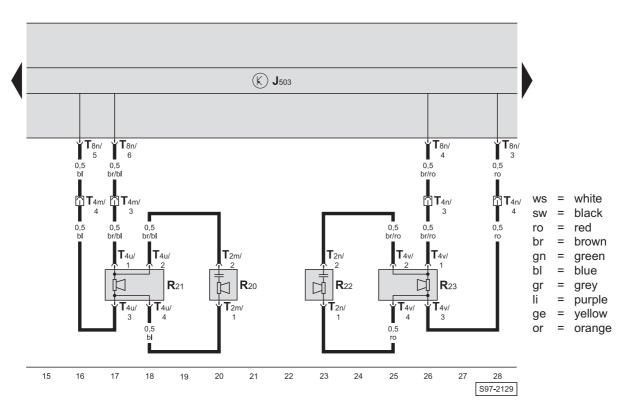
- J412 Control unit for telephone operating electronics (interface box)
- (interface box)

  J503 Navigation system control unit
- S258 Fuse for navigation system
- SB45 Fuse, in fuse holder
- T8d 8-pin connector, at navigation system control unit (black)
- T18d 18-pin connector, at control unit for telephone operating electronics (interface box)
- T20a 20-pin connector, at navigation system control unit

- 255) Earth connection -1-, in wiring loom behind dash
- (606) Earth point, under the centre console, near gear stick
- (A11) Positive connection (58b), in wiring loom behind dash
- A21) Positive connection (86s), in wiring loom behind dash
- A27) Connection (vehicle speed signal), in wiring loom behind dash panel
- A46) Positive connection (30 from radio), in wiring loom behind dash panel
  - Connection (K diagnosis wire), in wiring loom behind dash panel on left
- = = applies only to models with CD changer
- applies only to models with mobile phone preinstallation 2-Cullmann

## Navigation system control unit, front speakers





J503 - Navigation system control unit

R20 Treble loudspeaker, front left

Bass loudspeaker, front left R21

R22 Treble loudspeaker, front right

- Bass loudspeaker, front right R23

T2m -2-pin connector, at front left treble loudspeaker

T2n 2-pin connector, at front right treble loudspeaker

- 4-pin connector, at left A pillar (black) T4m

T4n 4-pin connector, at right A pillar (black)

T4u - 4-pin connector, at left front woofer

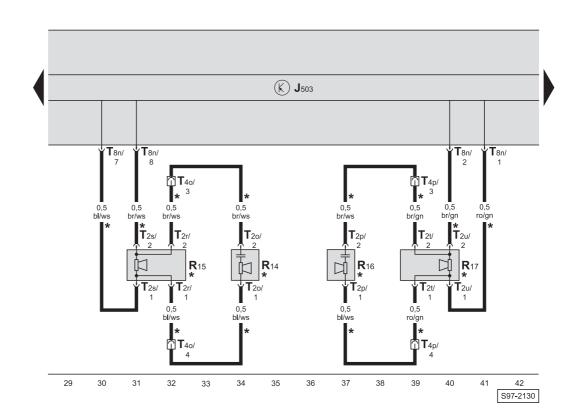
T4v - 4-pin connector, at right front woofer

8-pin connector, at navigation system control unit T8n

(brown)

Navigation system control unit, rear speakers





sw = black ro red br = brown gn = green = blue bl gr grey = purple

= yellow

= orange

ws =

ge

white

J503 - Navigation system control unit

R14 - Treble loudspeaker, rear left R15 - Bass loudspeaker, rear left

R16 - Treble loudspeaker, rear right

R17 - Bass loudspeaker, rear right

T2o - 2-pin connector, at rear left treble loudspeaker

T2p - 2-pin connector, at rear right treble loudspeaker
T2r - 2-pin connector, at rear left bass loudspeaker

T2s - 2-pin connector, at rear left bass loudspeaker

T2t - 2-pin connector, at rear right bass loudspeaker
 T2u - 2-pin connector, at rear right bass loudspeaker

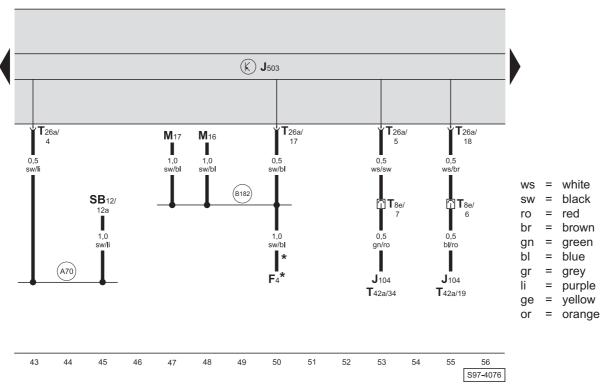
T4o - 4-pin connector, at left B pillar (black)
T4p - 4-pin connector, at right B pillar (black)

T8n - 8-pin connector, at navigation system control unit (brown)

- Applies only to models with 8 speakers

## Navigation system control unit





F4 - Reversing light switch

J104 - ABS/ABS with EDL and TCS/ESP control unit

J503 - Navigation system control unit

M16 - Reversing light bulb left
M17 - Reversing light bulb right
SB12 - Fuse, in fuse holder

T8e - Plug connection, 8-pin, at left of bulkhead (orange)

T26a - 26-pin connector, at navigation system control unit

T42a - Connector, 42-pin, at ABS/ABS with EDL and TCS/ ESP control unit (A70)

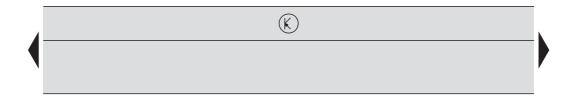
- Positive connection (15a), in wiring loom behind dash

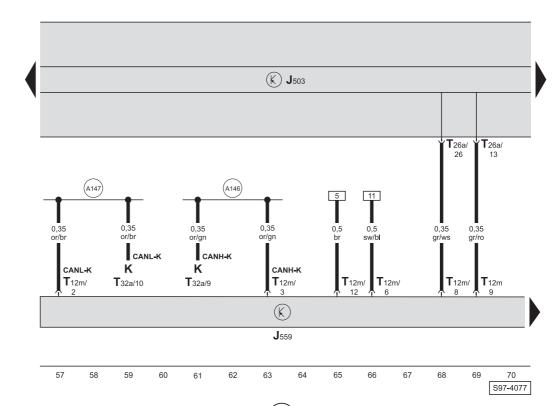
parie

82) - Connection (RF), in interior wiring loom

- Does not apply to models with automatic gearbox

Navigation system control unit, Traffic information control unit





sw = black ro red br = brown = green gn = bl blue = gr grey

ws = white

= purple = yellow ge

= orange

J503 - Navigation system control unit

J559 Control unit for traffic information radio, behind the dashboard

- Dash panel insert

T12m - 12-pin connetor, at traffic information control unit T26a - 26-pin connector, at navigation system control unit

T32a - 32-pin connector, at dash panel insert

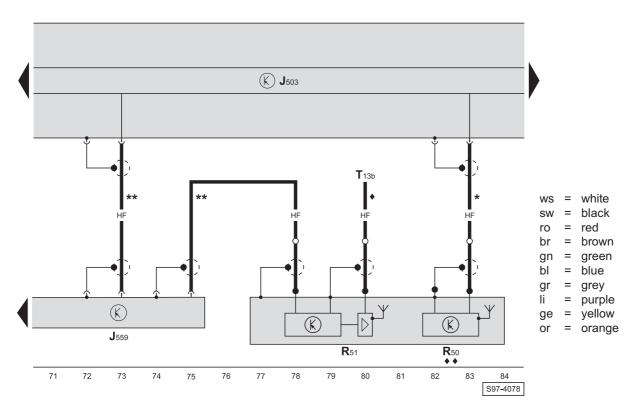


Connection (CAN-H, convenience), in wiring loom behind dash panel

Connection (CAN-L, convenience), in wiring loom behind dash panel

Navigation system control unit, traffic information control unit, aerial





J503 - Navigation system control unit

J559 - Control unit for traffic information radio, behind the dashboard

R50 - Navigation aerial (GPS) R51 - Radio/telephone aerial

T13b - 13-pin connector, for telephone

Navigation system aerial cable

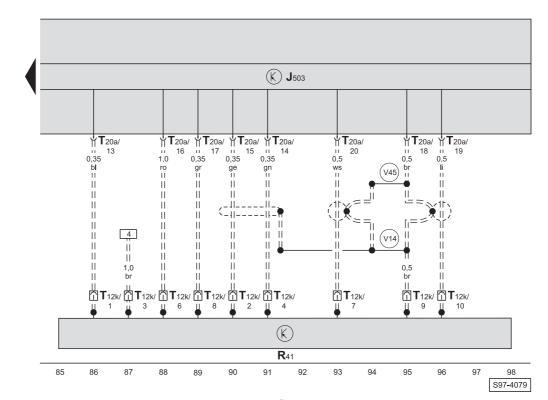
\*\* - Radio aerial cable

Mobile phone aerial cable

◆◆ - on Notchback models R50 is behind dash panel

Navigation system control unit, CD changer





sw black ro red = brown = green = blue bl gr grey

ws

white

= purple = yellow

= orange

J503 - Navigation system control unit

R41 - CD changer

T12k - 12-pin connector, at CD changer

T20a - 20-pin connector, at navigation system control unit

(V14

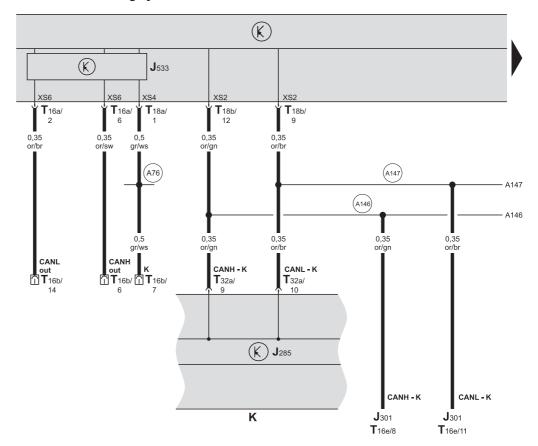
Connection (screening), in CD changer wiring loom

V45 Connection -2- (screening), in CD changer wiring

= = = - applies only to models with CD changer

**CAN-Bus Networking - Convenience, from August 2003** 

Dash panel insert, Control unit in dash panel insert, Data bus diagnostic interface, Connector for diagnostic connection, Connection for air conditioning system control unit



= black SW red ro br = brown gn = green = blue bl gr grey purple = yellow ge

=

WS

white

1 2 3 4 5 6 7 8 9 10 11 12 13 14 S97-4080

- J285 Control unit in dash panel insert
- J301 AC control unit

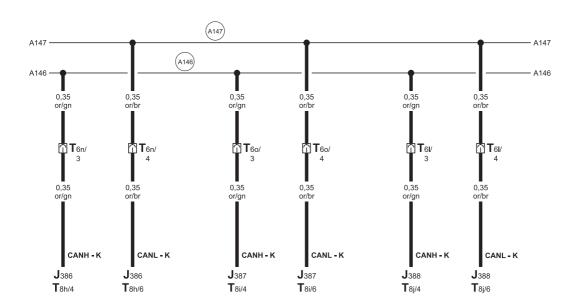
= orange

- J533 Databus diagnostic interface
- K Dash panel insert
- T16a 16-pin connector, at electrical system control unit (black)
- T16b 16-pin connector, in glove box on driver's side (diagnosis connection)
- T16e 16-pin connector, at AC control unit
- T18a 18-pin connector, at electrical system control unit (brown)
- T18b 18-pin connector, at electrical system control unit (black)
- T32a 32-pin connector, at dash panel insert

- (A76)
- Connection (K diagnosis wire), in wiring loom behind dash panel on left
- Connection (CAN-H, convenience), in wiring loom behind dash panel
- Connection (CAN-L, convenience), in wiring loom behind dash panel

Connection for: Driver door control unit, Front passenger door control unit, Rear left door control unit





= white ws black SW ro red br brown gn green bl blue gr grey li purple ge = yellow orange



J386 - Door control unit, driver's side

J387 - Door control unit, passenger's side

J388 - Door control unit, rear left

T6l - 6-pin connector, at left B pillar (blue)

T6n - Connector, 6-pin, at left A-pillar (blue)

T6o - 6-pin connector, at right A pillar (blue)

T8h - Connector, 8-pin, at door control unit, driver side

T8i - Connector, 8-pin, at door control unit, front passenger

side

T8j - Connector, 8-pin, at rear left door control unit



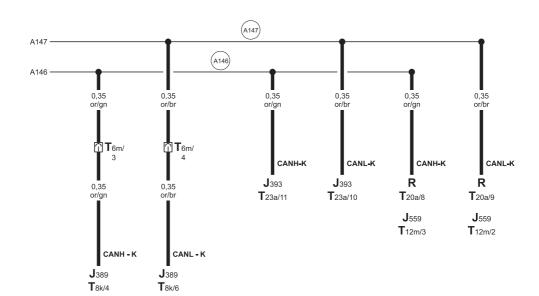
 Connection (CAN-H, convenience), in wiring loom behind dash panel

(A147) - Co

- Connection (CAN-L, convenience), in wiring loom behind dash panel

Connection for: Rear right door control unit, Convenience system central control unit, Radio, Traffic information control unit





= white WS = black SW ro red br = brown gn = green = blue bl gr grey = purple = yellow ge = orange

J389 - Door control unit, rear right

J393 - Convenience electrics central control unit

J559 - Control unit for traffic information radio, behind the dashboard

R - Radio

T6m - 6-pin connector, at right B pillar (blue)

T8k - Connector, 8-pin, at rear right door control unit T12m - 12-pin connetor, at traffic information control unit

T20a - 20-pin connector, at radio

T23a - 23-pin connector, at convenience electrics central control unit

(A146)

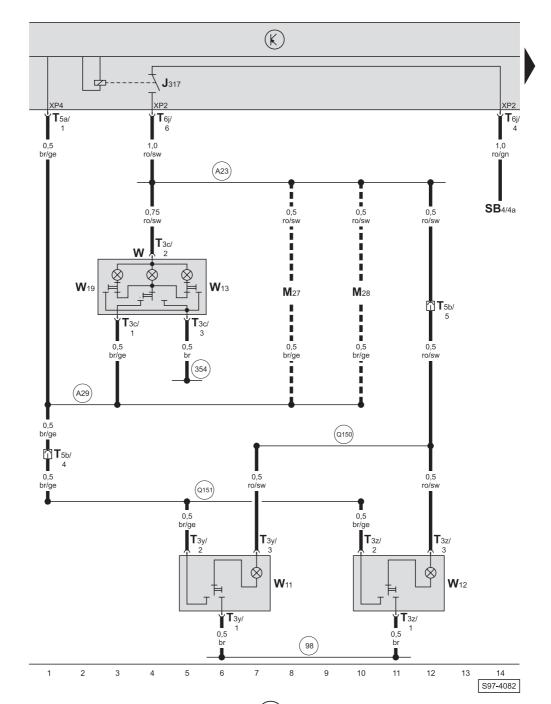
- Connection (CAN-H, convenience), in wiring loom behind dash panel

A147) - Connection (CAN

Connection (CAN-L, convenience), in wiring loom behind dash panel

Rear reading lights, from August 2003

## Rear reading lights (does not apply to Notchback models)

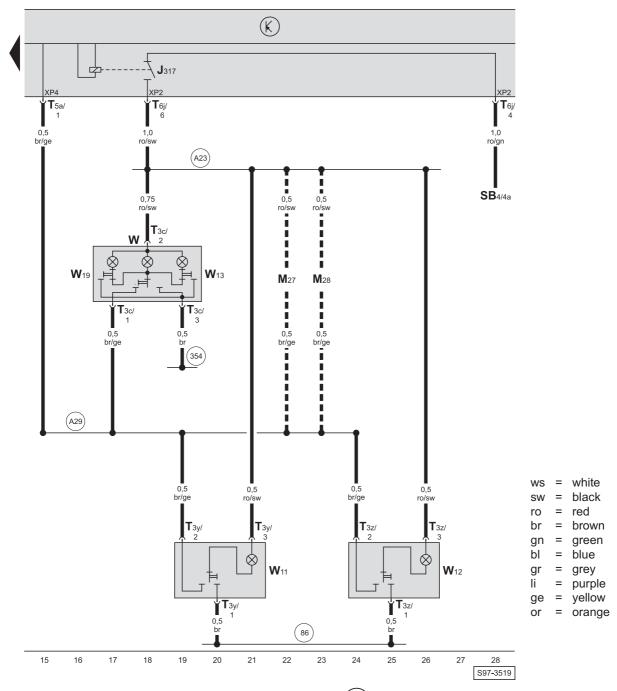


= white WS = black SW red ro br = brown gn = green = blue bl gr grey li purple yellow ge = orange

- J317 Terminal 30 voltage supply relay
- M27 Left door warning light
- M28 Right door warning light
- SB4 Fuse, in fuse holder
- T3c 3-pin connector, at front interior light bulb
- T3y Plug connection, 3-pin, at left rear reading light
- T3z Plug connection, 3-pin, at right rear reading light
- T5a 5-pin connector, at electrical system control unit (black)
- T5b 5-pin connector, at left C pillar (brown)
- T6j 6-pin connector, at electrical system control unit (brown)
- W Interior light, front
- W11 Reading light, rear left
- W12 Reading light, rear right
- W13 Front passenger's reading light
- W19 Driver-side reading light

- 98 Earth connection, in engine compartment wiring harness
- Earth connection, in wiring harness behind dash panel
- A23) Positive connection (30al), in wiring loom behind dash panel
- A29) Connection (interior light 31), in wiring loom behind dash panel
- (2150) Connection (30al), in boot lid/tailgate wiring loom
- (2151) Connection (interior light 31), in boot lid/tailgate wiring loom
- ■ Applies only to models with door warning lights

## Rear reading lights (applies only to Notchback models)

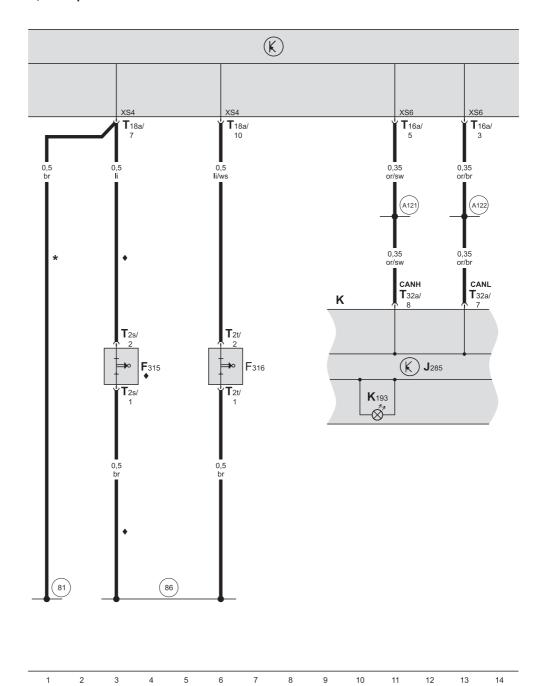


- J317 Terminal 30 voltage supply relay
- M27 Left door warning light
- M28 Right door warning light
- SB4 Fuse, in fuse holder
- T3c 3-pin connector, at front interior light bulb
- T3y Plug connection, 3-pin, at left rear reading light
- T3z Plug connection, 3-pin, at right rear reading light
- T5a 5-pin connector, at electrical system control unit (black)
- T6j 6-pin connector, at electrical system control unit (brown)
- W Interior light, front
- W11 Reading light, rear left
- W12 Reading light, rear right
- W13 Front passenger's reading light
- W19 Driver-side reading light

- (86) Earth connection -1-, in rear interior wiring loom
- 354) Earth connection, in wiring harness behind dash panel
- A23) Positive connection (30al), in wiring loom behind dash panel
  - Connection (interior light 31), in wiring loom behind dash panel
- ■ Applies only to models with door warning lights

Inspection of the rear seat backrest lock, as of August 2003

## Backrest contact switch, Dash panel insert



= white WS = black SW ro red br = brown gn = green = blue bl gr grey purple = yellow ge = orange

F315 - Left backrest contact switch F316 - Right backrest contact switch

J285 - Control unit in dash panel insert

K - Dash panel insert

K193 - Rear seat backrest lock warning lamp

T2s - 2-pin connector, at left backrest contact switch
T2t - 2-pin connector, at right backrest contact switch

T16a - 16-pin connector, at electrical system control unit (black)

T18a - 18-pin connector, at electrical system control unit (brown)

T32a - 32-pin connector, at dash panel insert

81) - Earth connection, in wiring harness behind dash panel

86 ) - Earth connection -1-, in rear interior wiring loom

- Connection (CAN-H), in wiring loom behind dash panel on

Connection (CAN-L), in wiring loom behind dash panel

not valid for vehicles with separated backrest

• - not valid for vehicles without separated backrest

S97-4083

# **Battery discharges itself**

## Test requirements:

- Battery O. K.
- Interior lights and all systems are switched off

## Possible causes of fault are:

- Corroded or contaminated contacts
- Chafed cables
- Internal closing in the units

## For fault finding the following is required:

- Handheld multimeter, e.g. V.A.G 1526 A
- Measuring aid set, e.g V.A.G 1594 A
- Valid current flow diagram

# Measure battery discharge rate Disconnect battery-earth strap. Set measuring range selector switch of handheld multimeter to current test Connect handheld multimeter (largest measuring range) to negative terminal and earth strap of battery. Switch off all electrical components in the vehicle (e.g. radio, interior lights). Shift down current measuring range until a readable display is carried out. Current max.25 mA. Current above 25 mA. Test battery ⇒ Electrical System. Interrupt the individual circuits by removing the fuses consecutively. Current drops to max. 25 mA. Current remains above 25 mA.

Find the cause of fault in the circuit and eliminate it.

If no fault is found at secured circuits, disconnect cables to not secured units: Alternator, starter...- carry out fault finding according to current flow diagram.

End of fault finding program

# Starter cannot rotate

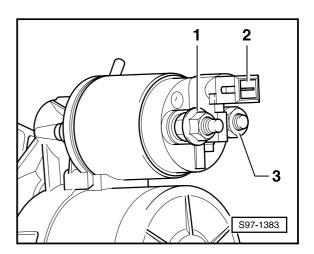
# Test requirements:

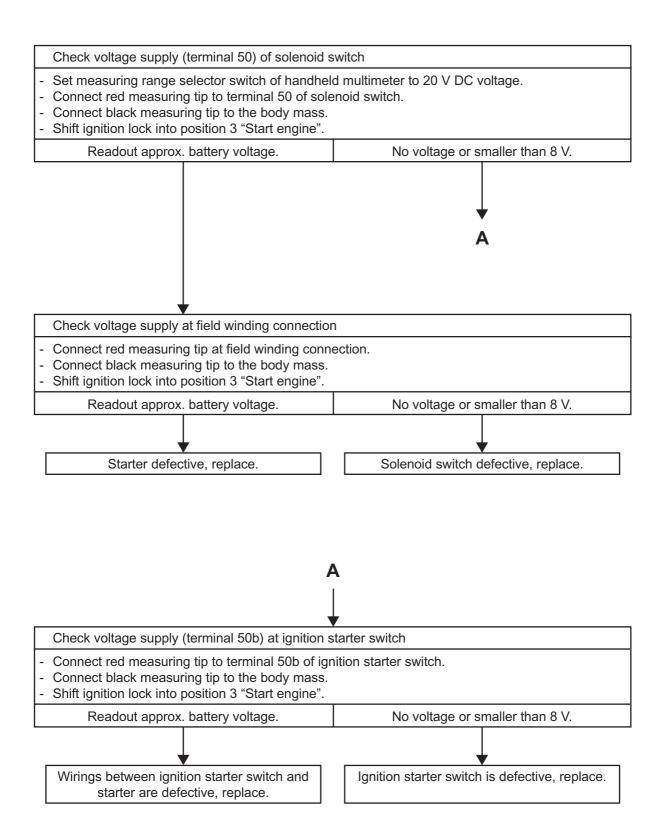
- Battery O. K.
- Cable connections at solenoid switch and earth strap between battery/body as well as between body/ gearbox must be tight and must not be oxidized.

# For fault finding the following is required:

- Handheld multimeter, e.g. V.A.G 1526 A
- ♦ Measuring aid set, e.g V.A.G 1594 A
- ♦ Valid current flow diagram

- 1 Terminal 30, from battery
- 2 Terminal 50, from ignition starter switch
- 3 Connection for field winding





# Windshield wiper system faulty

## Test requirements:

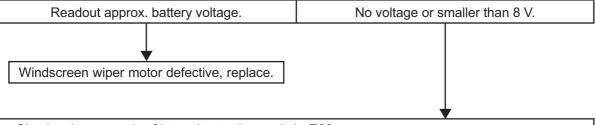
- Fuse SB 15 (10 A) and SB 41 (20 A) O.K.
- Battery voltage O.K.

## For fault finding the following is required:

- Handheld multimeter, e.g. V.A.G 1526 A
- Measuring aid set, e.g. V.A.G 1594 A
- Valid current flow diagram

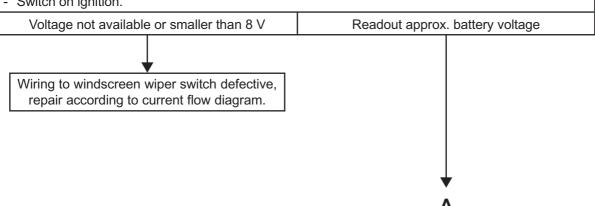
## Check voltage supply for windscreen wiper motor -V-

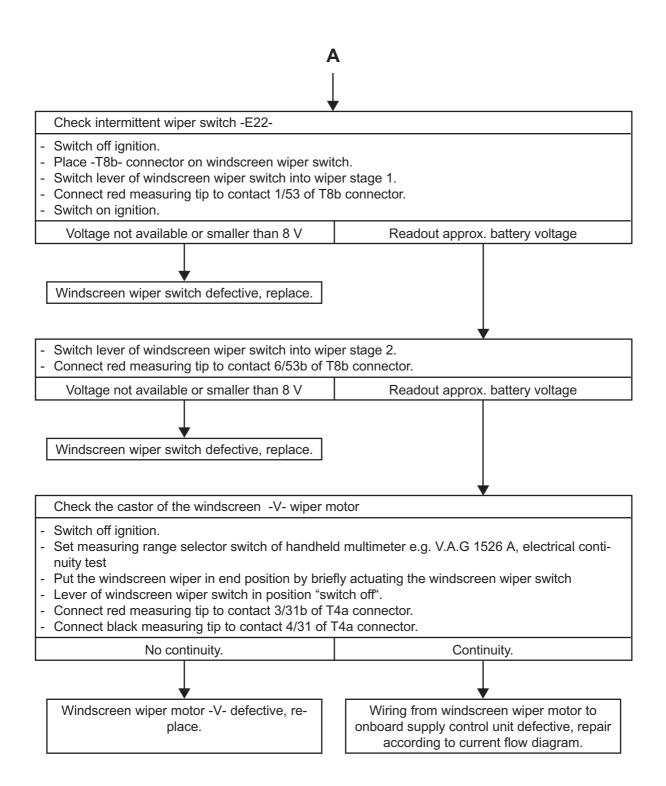
- Set measuring range selector switch of handheld multimeter e.g. V.A.G 1526 A, to 20 DC voltage.
- Switch on ignition.
- Connect handheld multimeter with measuring aid set e.g. V.A.G 1594 A with black measuring tip to contact 4 and with red measuring tip to contact 2 of T4a connector at windscreen wiper motor.
- Switch lever of windscreen wiper switch into wiper stage 1, measure voltage.
- Connect handheld multimeter with red measuring tip to contact 1 of T4a connector at windscreen wiper motor.
- Switch lever of windscreen wiper switch into wiper stage 2, measure voltage.



## Check voltage supply of intermittent wiper switch -E22-

- Switch off ignition.
- Remove steering column trim panel.
- Disconnect -T8b- connector from windscreen wiper switch.
- Connect handheld multimeter with measuring aid set e.g. V.A.G 1594 A with black measuring tip to contact 2 of T8b connector and with red measuring tip to contact 8 of T8b connector.
- Switch on ignition.





## **END**

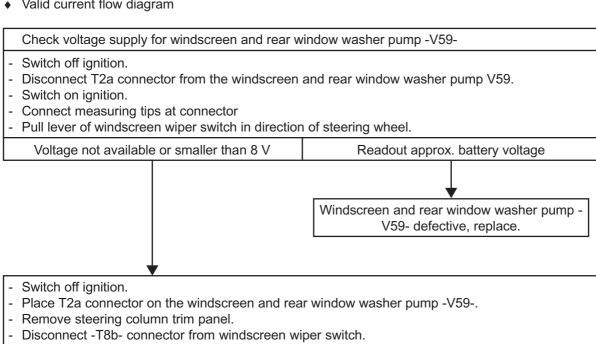
# Windscreen washer system defective

## Test requirements:

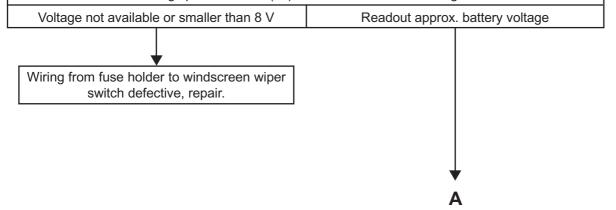
- ♦ Fuse SB 15 (10 A) O.K.
- Battery voltage O.K.

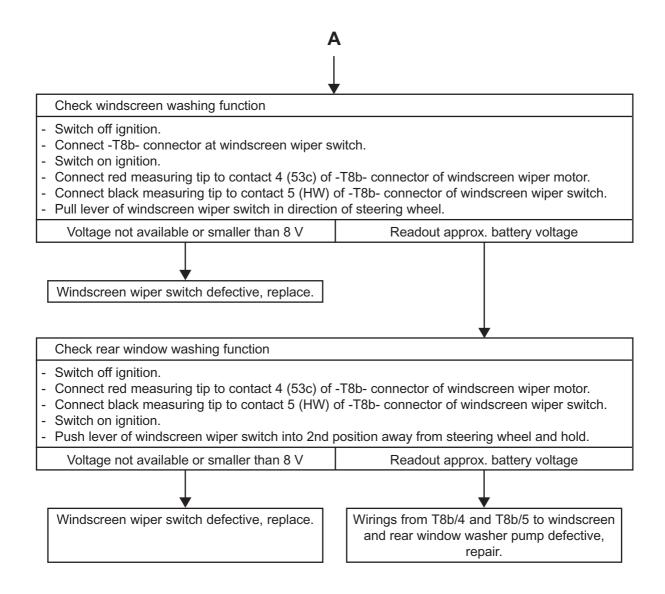
## For fault finding the following is required:

- Handheld multimeter, e.g. V.A.G 1526 A
- Measuring aid set, e.g. V.A.G 1594 A
- Valid current flow diagram



- Switch on ignition.
- Connect red measuring tip to contact 8 (53a) of -T8b- connector at wiring harness.
- Connect black measuring tip to contact 2 (31) of -T8b- connector at wiring harness.





**END** 

## Intermittent wiper defective

#### Test requirements:

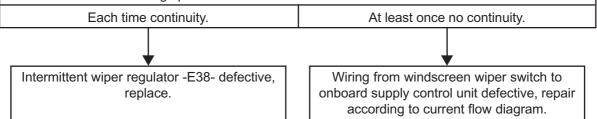
- ◆ Check voltage supply of windscreen wiper motor -V- and windscreen wiper switch -E22- according to fault finding program No. 3.
- ♦ The engine hood must be closed on vehicles fitted with alarm system.
- Battery voltage O.K.

#### For fault finding the following is required:

- Handheld multimeter, e.g. V.A.G 1526 A
- ♦ Measuring aid set, e.g. V.A.G 1594 A

## Valid current flow diagram Check windscreen wiper switch -E22-- Switch off ignition. - Remove steering column trim panel. - Disconnect -T8b- connector from windscreen wiper switch. - Set measuring range selector switch of handheld multimeter to 20 V DC voltage. - Connect handheld multimeter with measuring aid set e.g. V.A.G 1594 A with black measuring tip to vehicle mass and red measuring tip to contact 7 of T8b connector. - Switch on ignition. Switch lever of windscreen wiper switch into wiper stage "interval". Voltage not available or smaller than 8 V Readout approx. battery voltage Windscreen wiper switch defective, replace. Check intermittent wiper regulator -E38-- Switch off ignition. - Place -T8b- connector on windscreen wiper switch. - Disconnect -T6a- connector from windscreen wiper switch.

- Set measuring range selector switch of handheld multimeter to electrical continuity test.
- Connect red measuring tip to contact 5 of T6a connector.
- Connect black measuring tip to contact 7 of T8b connector.
- Connect red measuring tip to contact 6 of T6a connector.
- Connect black measuring tip to contact 18 of T18a connector



## Check rear window wiper

#### Test requirements:

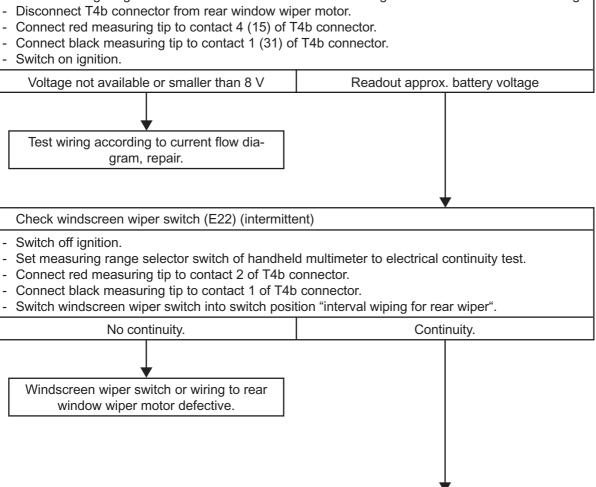
- Check voltage supply for windscreen wiper switch -E22- according to fault finding program No. 3.
- Fuses SB 15 (10 A), SB 32 (10 A) and SB 41 (20 A) O. K.

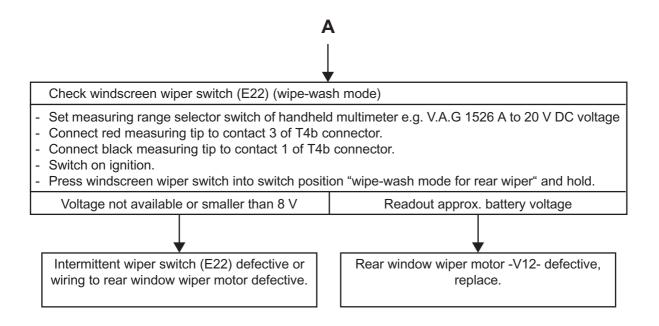
#### For fault finding the following is required:

- Handheld multimeter V.A.G 1526
- Measuring aid set V.A.G 1594 A
- Valid current flow diagram

#### Check voltage supply for rear window wiper motor (V12)

- Remove trim panel for rear panel flap ⇒ Body Work.
- Set measuring range selector switch of handheld multimeter e.g. V.A.G 1526 A to 20 V DC voltage





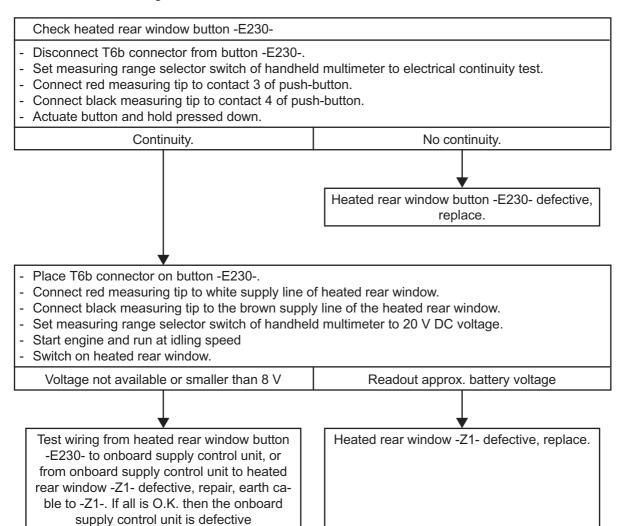
### Heated rear window without function

#### Test requirements:

- ♦ Fuse SB 39 (20 A) O.K.
- Battery voltage O.K.
- ♦ No other electrical component such as auxiliary heater element or seat heating is switched on.

#### For fault finding the following is required:

- ♦ Handheld multimeter, e.g. V.A.G 1526 A
- ♦ Measuring aid set, e.g. V.A.G 1594 A
- Valid current flow diagram



#### Check fresh air blower

#### Test requirements:

- ♦ Fuse SB 68 (25 A) O.K.
- Battery voltage O.K.

#### For fault finding the following is required:

- ♦ Handheld multimeter, e.g. V.A.G 1526 A
- Measuring aid set, e.g. V.A.G 1594 A
- Valid current flow diagram

#### Check voltage supply for fresh air blower -V2-

- Switch off ignition.
- Remove heater control.
- Disconnect T5h connector from fresh air blower switch -E9-.
- Set measuring range selector switch of handheld multimeter to 20 V DC voltage.
- Connect red measuring tip to contact 5 of T5h connector at wiring harness.
- Connect black measuring tip to the vehicle mass.
- Switch on ignition.

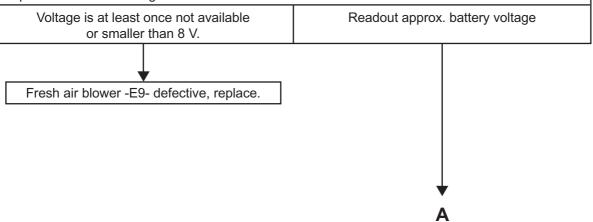
Voltage not available or smaller than 8 V

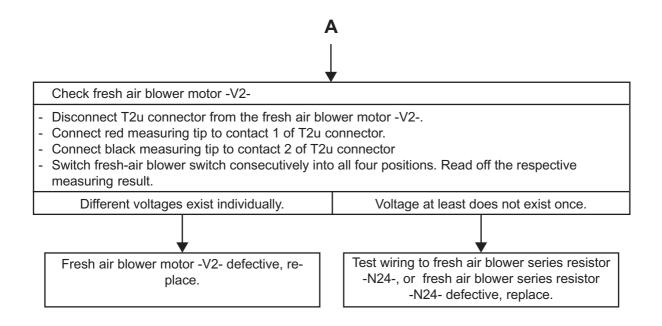
Readout approx. battery voltage

Wiring between fresh air blower switch -E9and fuse SB 68 defective, repair.

#### Check fresh air blower -E9-

- Switch off ignition.
- Place T5h connector on fresh air blower switch -E9-.
- Connect black measuring tip to the vehicle mass.
- Switch on ignition.
- Connect red measuring tip to contact 4 of T5h connector and position fresh-air blower switch on speed 1. Read off voltage.
- Connect red measuring tip to contact 3 of T5h connector and position fresh-air blower switch on speed 2. Read off voltage.
- Connect red measuring tip to contact 2 of T5h connector and position fresh-air blower switch on speed 3. Read off voltage.
- Connect red measuring tip to contact 1 of T5h connector and position fresh-air blower switch on speed 4. Read off voltage.





## Check fresh air/recirculated air flap control motor

#### Test requirements:

- ♦ Fuse SB 12 (5 A) O.K.
- Battery voltage O.K.

#### For fault finding the following is required:

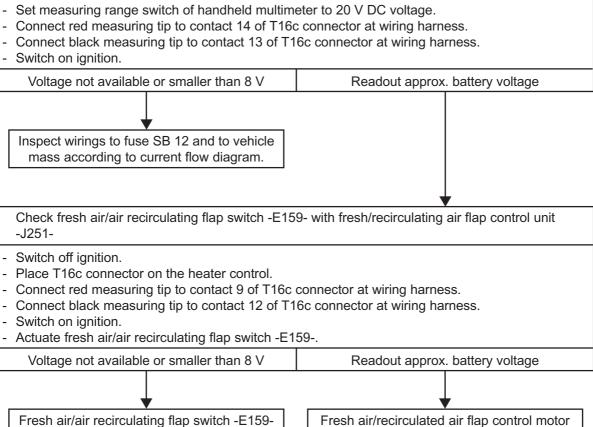
- Handheld multimeter, e.g. V.A.G 1526 A
- Measuring aid set, e.g. V.A.G 1594 A
- Valid current flow diagram

# Check voltage supply for fresh air/recirculated air flap control motor -V154-

- Switch off ignition.
- Remove heater control.
- Disconnect T16c connector from heater control.

or fresh/recirculating air flap control unit

-J251- defective, replace.



**END** 

-V154- defective, replace.

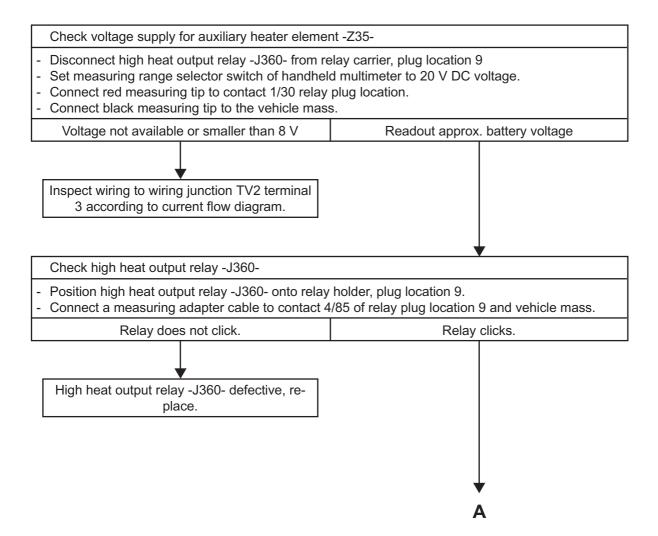
## Check auxiliary heater element (PTC) -Z35-

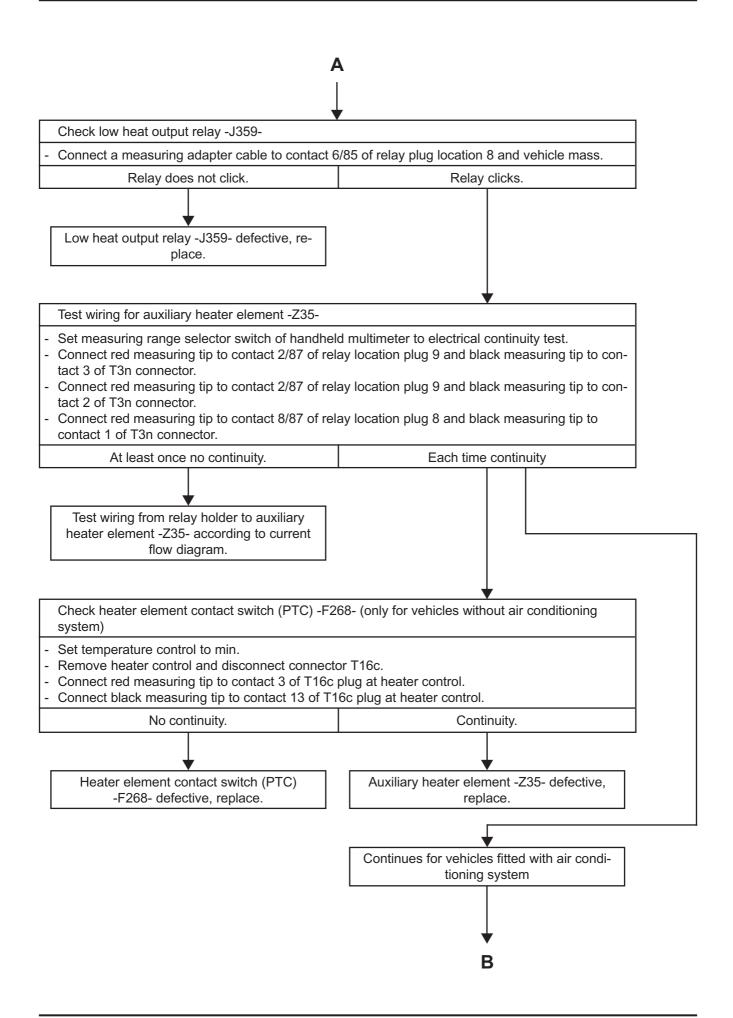
#### Test requirements:

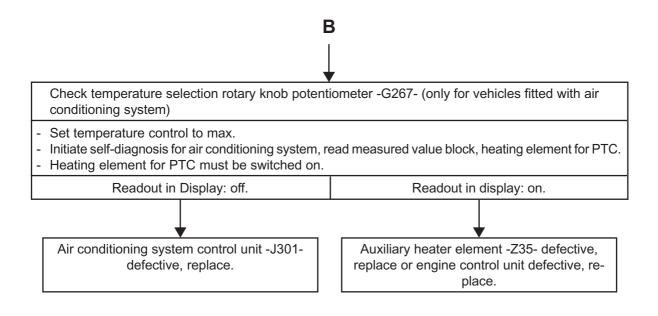
- Fuses S276, S277, S278 (40 A) O.K.
- Battery voltage O.K.
- All electrical components such as heated rear window, light or seat heating are switched off
- Coolant temperature below 70 °C
- ♦ Temperature control to max.

#### For fault finding the following is required:

- Handheld multimeter, e.g. V.A.G 1526 A
- Measuring aid set, e.g. V.A.G 1594 A
- Valid current flow diagram







# Electrically adjustable and heated exterior mirror (without power windows)

#### Test requirements:

- ♦ Battery O. K.
- ♦ Fuses SB 11 and SB 38 O.K.
- Remove mirror adjustment switch
- ♦ Handheld multimeter, e.g. V.A.G 1526 A
- ♦ Measuring aid set, e.g. V.A.G 1594 A

#### Note:

If the specified values are not achieved, eliminate line interruption according to current flow diagram or replace mirror.

Test step	Tested is	Test conditions	Specified value	Fault finding
1	Current supply at switch	Ignition on  - red measuring tip to -T10f- switch plug, contact 5 - black measuring tip to -T10f- switch plug, contact 3	approx. 12 V	Line interruption
2	Switch functions for left mirror	- Left switch position Ignition on		
	- to the top	<ul> <li>red measuring tip to -T10f-, contact 2</li> <li>black measuring tip to -T10f-, contact 10</li> </ul>	approx. 12 V	Switch defective
	- to the bottom	<ul> <li>red measuring tip to -T10f-, contact 10</li> <li>black measuring tip to -T10f-, contact 2</li> </ul>	approx. 12 V	Switch defective
	- to the left	<ul> <li>red measuring tip to -T10f-, contact 10</li> <li>black measuring tip to -T10f-, contact 7</li> </ul>	approx. 12 V	Switch defective
	- to the right	<ul> <li>red measuring tip to -T10f-, contact 7</li> <li>black measuring tip to -T10f-, contact 10</li> </ul>	approx. 12 V	Switch defective

Test step Tested is		Test conditions	Specified value	ed Fault finding		
3	Switch functions for right mirror	- Right switch position Ignition on				
	- to the top	<ul> <li>red measuring tip to -T10f-, contact 2</li> <li>black measuring tip to -T10f-, contact 6</li> </ul>	approx. 12 V	Switch defective		
	- to the bottom	<ul> <li>red measuring tip to -T10f-, contact 6</li> <li>black measuring tip to -T10f-, contact 2</li> </ul>	approx. 12 V	Switch defective		
	- to the left	<ul> <li>red measuring tip to -T10f-, contact 9</li> <li>black measuring tip to -T10f-, contact 6</li> </ul>	approx. 12 V	Switch defective		
	- to the right	<ul> <li>red measuring tip to -T10f-, contact 6</li> <li>black measuring tip to -T10f-, contact 9</li> </ul>	approx. 12 V	Switch defective		
4 Current supply for mirror heating		<ul> <li>Ignition on</li> <li>Mirror adjustment switch in position "heated"</li> <li>Remove mirror glass</li> <li>disconnect both plugs</li> <li>connect red terminal to a connection cable</li> <li>connect black terminal to the other connection cable</li> </ul>	approx. 12 V	Mirror adjustment switch defective     Line interruption of mirror heating defective		
5	Mirror heating (in cold condition)	<ul> <li>Set measuring range selector switch of handheld multimeter to resistance measurement</li> <li>Mirror glass removed</li> <li>connect red terminal to a connection cable</li> <li>connect black terminal to the other connection plug at the mirror glass</li> </ul>	3 - 6 Ω	Mirror heating defective, replace mirror glass		

## Test electrical sliding roof

#### Test requirements:

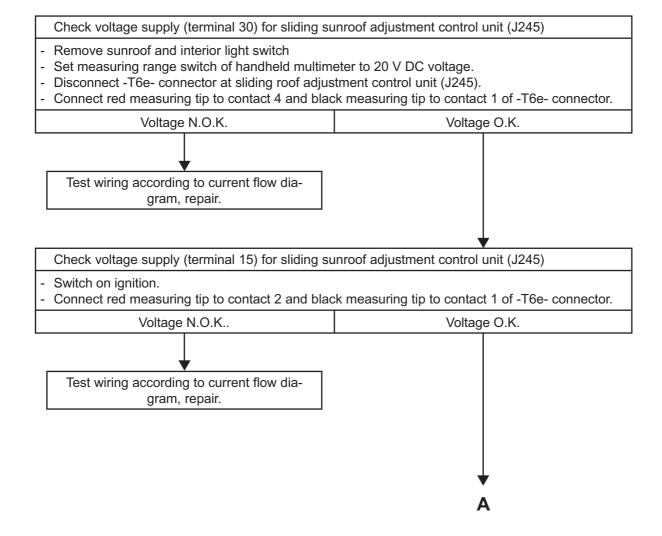
- Battery voltage O.K.
- ♦ Fuses SB 62 O.K.!
- ♦ Electrical sliding roof mechanically O.K.

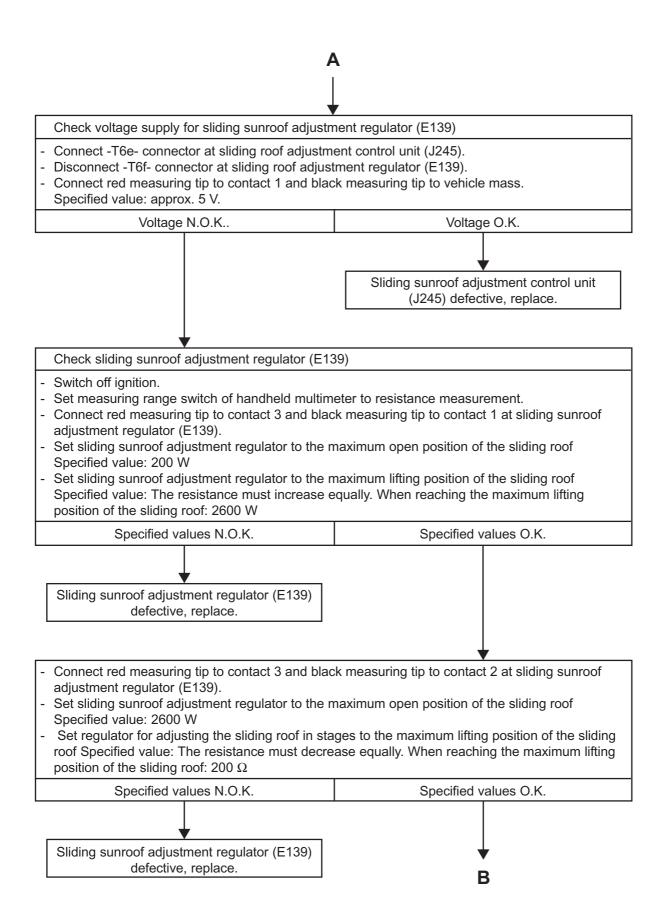
#### For fault finding the following is required:

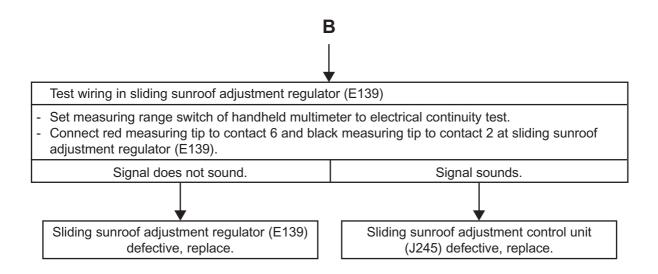
- ♦ Handheld multimeter, e.g. V.A.G 1526 A
- ♦ Measuring aid set, e.g. V.A.G 1594 A
- Valid current flow diagram

#### Note:

The sliding sunroof adjustment control unit (J245) and the motor for the sliding roof (V1) are combined in one component and cannot be replaced individually.







## **Check seat heating**

#### Test requirements:

♦ Fuse SB63 (15 A) O.K.

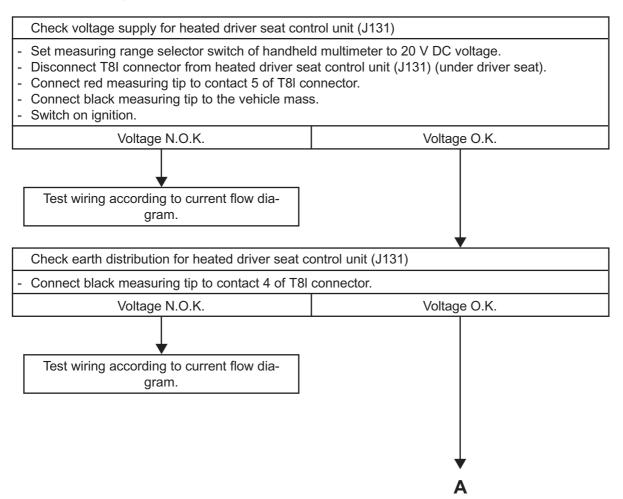
For fault finding the following is required:

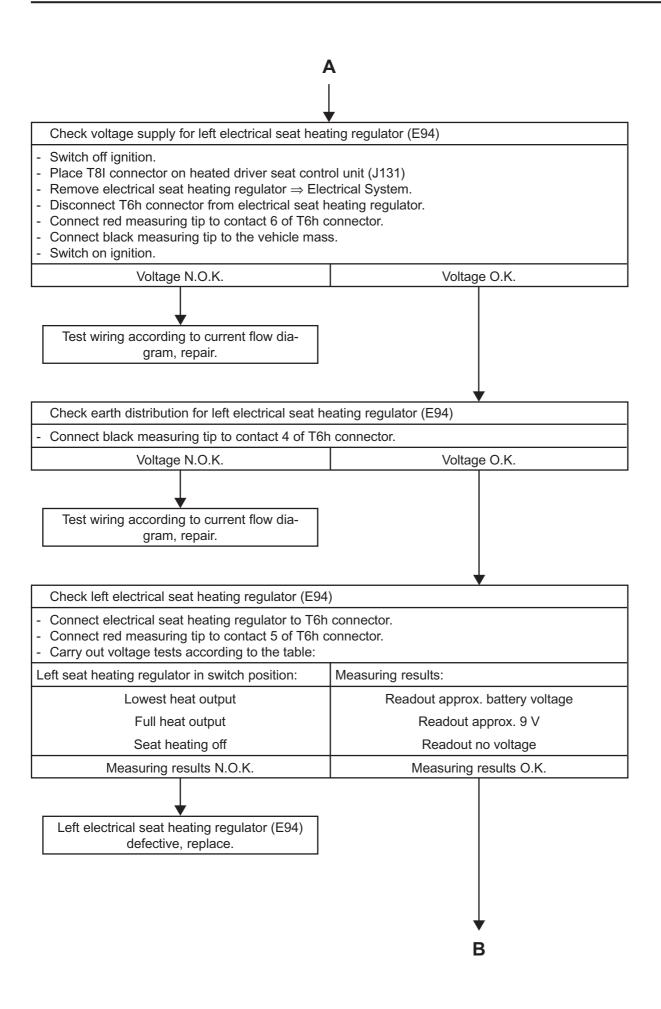
- ♦ Handheld multimeter, e.g. V.A.G 1526 A
- ♦ Measuring aid set, e.g V.A.G 1594 A
- Valid current flow diagram

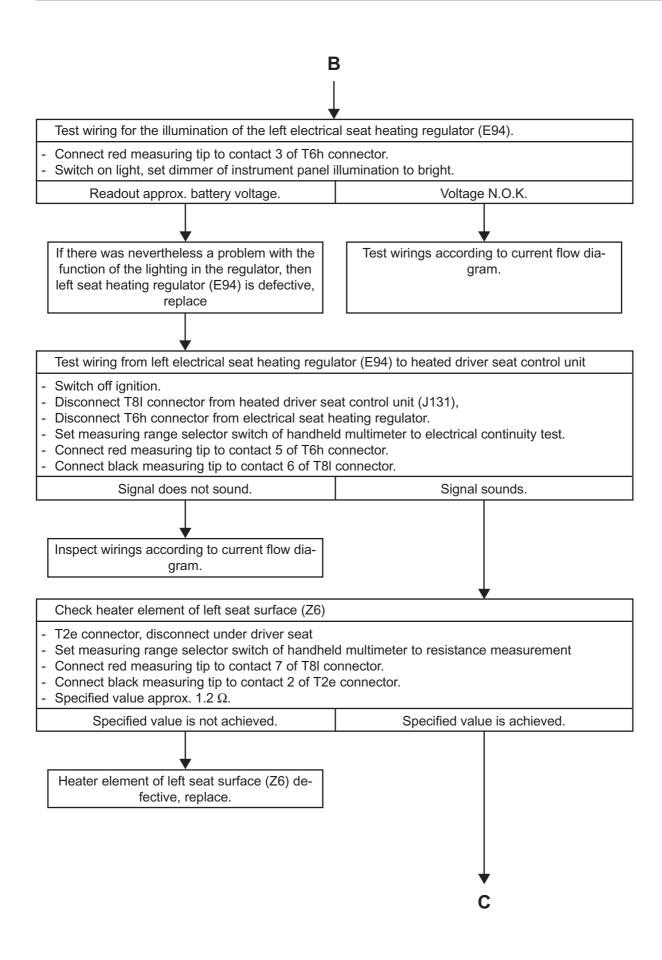
#### Note:

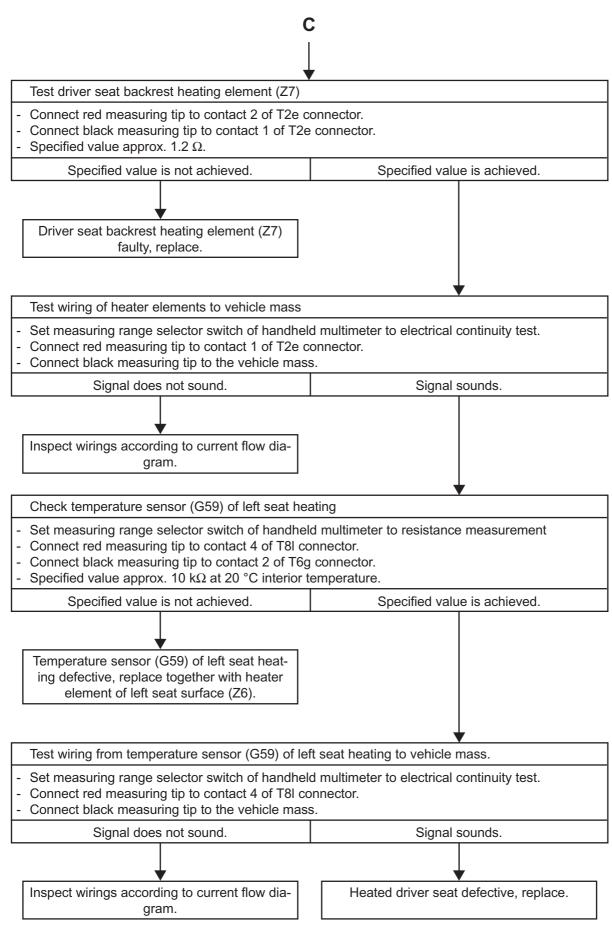
The following fault finding program describes the fault finding for the driver side. In case of defective front passenger seat heating proceed analogously.

#### Left seat heating without or with defective function









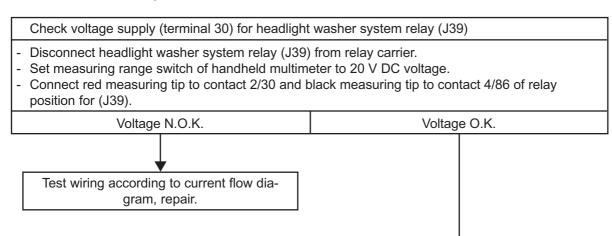
## Check headlight washer system

#### Test requirements:

- Battery voltage O.K.
- ♦ Fuse SB 64 O.K.!
- Function of dipped beam O.K.!
- Function of windcreen wiper and wash system O.K.!

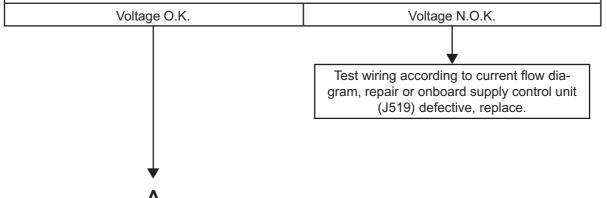
#### For fault finding the following is required:

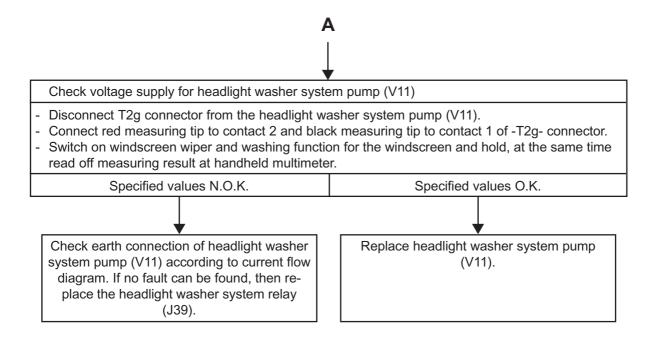
- Handheld multimeter, e.g. V.A.G 1526 A
- Measuring aid set, e.g. V.A.G 1594 A
- Valid current flow diagram



Check voltage supply for headlight washer system relay (J39) through switched on main beam

- Switch on dipped beam.
- Switch on ignition.
- Connect red measuring tip to contact 6/85 and black measuring tip to contact 4/86 of relay position for (J39).
- Switch on windscreen wiper and washing function for the windscreen and hold.





## Check warning concerning bulb failure

#### Test requirements:

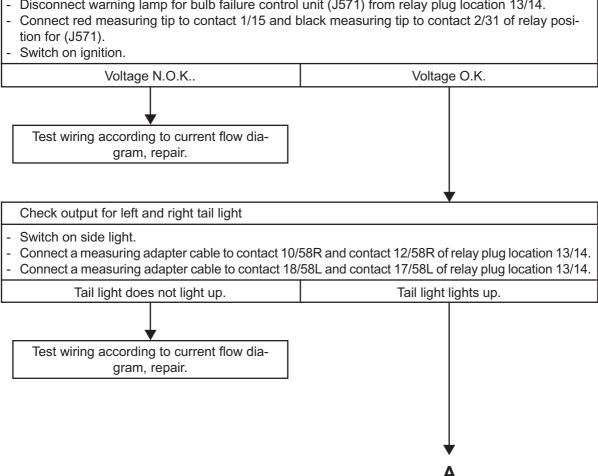
- Battery voltage O.K.
- Fuses according to Current Flow Diagram O.K.!
- Light bulbs for main beam, tail light and brake light O.K.!

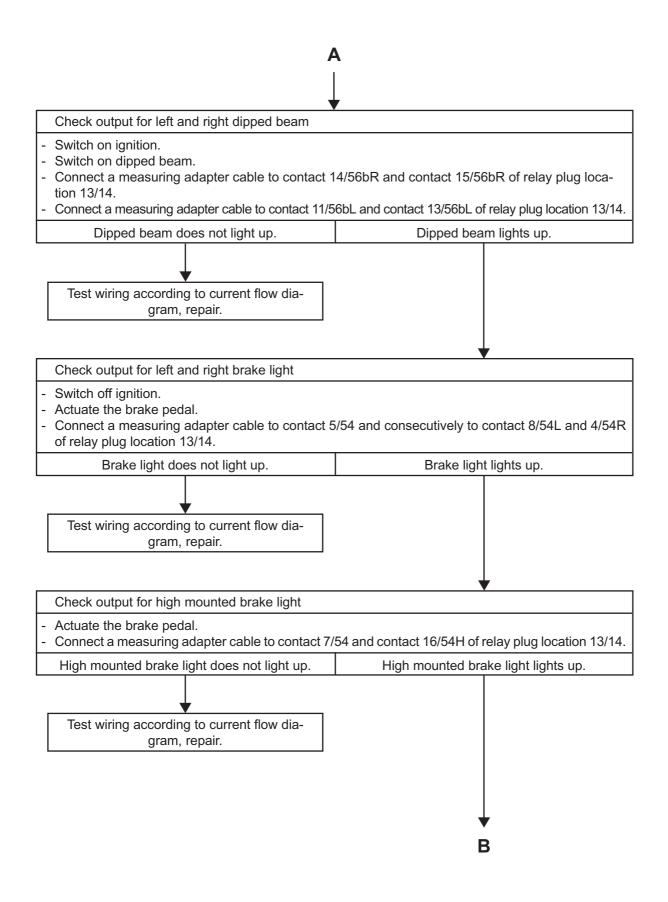
#### For fault finding the following is required:

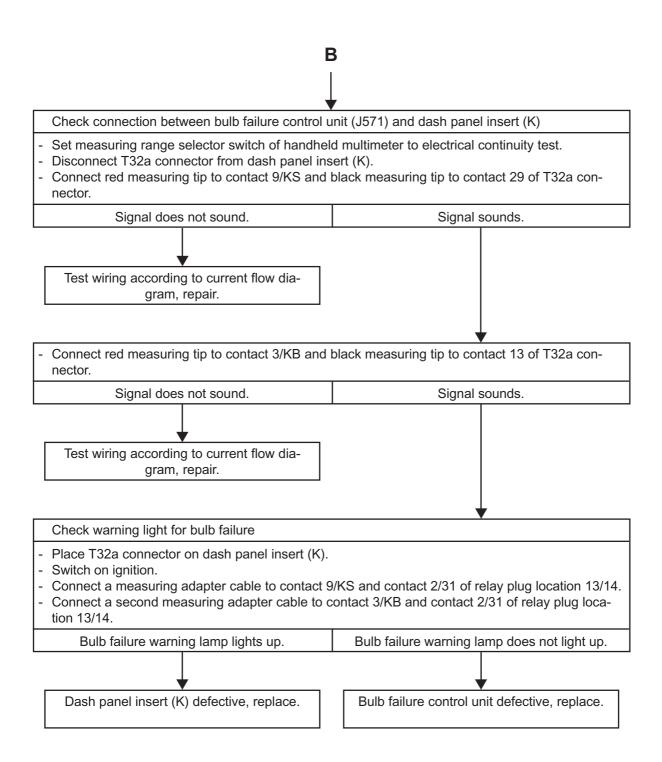
- ♦ Handheld multimeter, e.g. V.A.G 1526 A
- Measuring aid set, e.g. V.A.G 1594 A
- Valid current flow diagram

#### Check voltage supply for bulb failure control unit (J571)

- Set measuring range switch of handheld multimeter to 20 V DC voltage.
- Disconnect warning lamp for bulb failure control unit (J571) from relay plug location 13/14.





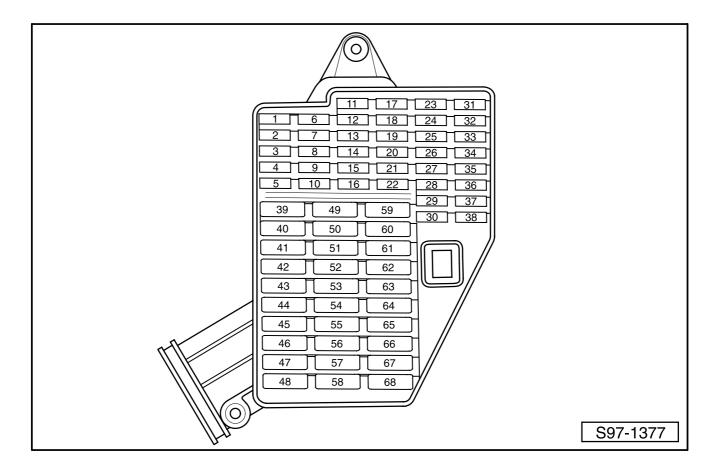


## Fuse Holder, Fuse holder on battery, Relay holder, Additional fuse holder

#### **Contents overview**

-	Fuse holder 08.02 ➤ 07.03	1/2
-	Fuse holder 08.03 ➤	1/4
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-	Fuse holder on battery 08.03 ➤	1/7
-	Relay holder 08.02 ➤ 07.03	1/8
-	Relay holder 08.03 ➤	1/9
-	Additional fuse holder 08.02 ➤ 10.02	1/10
_	Additional fuse holder 11 02 ➤	1/10

## Fuse holder - Fuse assignment 08.02 ➤ 07.03



The fuse protection for the unlisted optional equipment is listed in the corresponding current flow diagram.

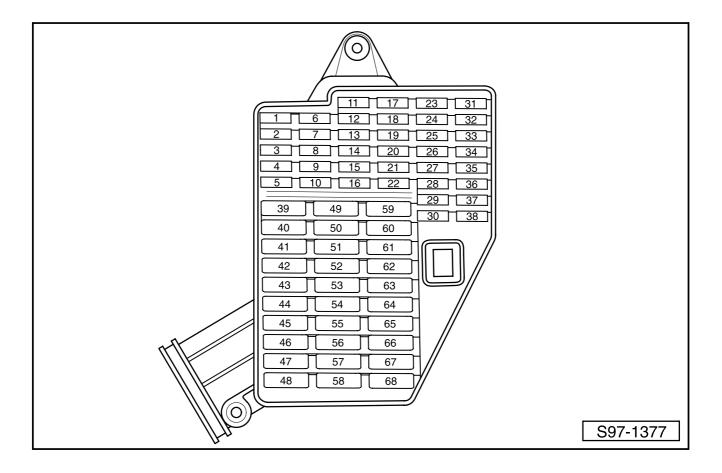
1	-	Dash panel insert, ESP	5 A	13	-	Reversing lights	10 A
2	-	Brake lights	10 A	14	-	Engine control unit	10 A
3	-	Voltage supply diagnosis, Air conditioning system	5 A	15	-	Wiper and washer system	10 A
4	-	Interior light, Glove box light, Luggage compartment light	10 A	16	-	Dash panel insert	5 A
	-	Door warning lamp (up to 10.02) Not assigned (as of 11.02)	5 A	17	-	Engine control unit Engine control unit for 1.2/40 kW, 1.2/47 kW	5 A 15 A
6	-	Headlight range control	5 A	18	-	Telephone	5 A
7	-	Engine electronics, Power assisted steering	5 A	19	-	Automatic gearbox	10 A
8	-	not assigned		20	-	Bulb failure warning lamp	5 A
9	-	Lambda probe	10 A	21	-	Heated washer nozzles	5 A
10	-	S contact (86s)	5 A	22	-	not assigned	
11	-	Heated and adjustable exterior mirrors	5 A	23	-	Right main beam	10 A
12	-	Fresh and recirculated air flap, Air conditioning system, Navigation system, Telephone, Gas discharge lamps	5 A	24	-	Engine electronics	10 A

25	-	ABS/TCS control unit ABS/ESP control unit	5 A 10 A	47	-	not assigned	
26			10 A	48		Engine control unit	30 A
	-	not assigned			-	•	
27		not assigned		49		Central locking	15 A
28	-	Brake pedal switch, Clutch pedal switch, Engine electronics	5 A	50	-	Right main beam / right gas dis- charge lamp, right headlight range control	15 A
29	-	Engine control unit	5 A	51	-	Socket in luggage compartment	15 A
30	-	Left main beam, main beam warning lamp	10 A	52	-	Petrol engine - ignition system	15 A
31	-	Rear lid central locking	10 A	53	-	Power windows	25 A
32	-	Rear window wiper	10 A	54	-	Left main beam / left gas dis- charge lamp, left headlight range control	15 A
33	-	Right parking light	5 A	55	-	not assigned	
34	-	Left side light	5 A	56	-	Engine control unit	20 A
35	-	Petrol engine - injection valves	10 A	57	-	Trailer coupling	25 A
36	-	Number plate light	5 A	58	-	Power windows	25 A
37	-	Rear fog light, rear fog light warning lamp	7,5 A	59	-	not assigned	
38	-	Heated and adjustable exterior mirror	5 A	60	-	Anti-theft alarm system	15 A
39	-	Rear window heater	20 A	61	-	Fuel pump	15 A
40	-	Horn	20 A	62	-	Sliding roof	25 A
41	-	Windscreen wiper	20 A	63	-	Seat heatings	15 A
42	-	Socket	15 A	64	-	Headlight washer system	20 A
43	-	Onboard supply control unit, Selectorlever lock	20 A	65	-	Fog light	15 A
44	-	Flashing lights	15 A	66	-	Power windows	25 A
45	-	Radio, Navigation system	20 A	67	-	not assigned	
46	-	Power windows	25 A	68	-	Fresh air blower	25 A

## **Fuse colours**

30 A	- green	10 A	- red
25 A	- white	7.5 A	- brown
20 A	- yellow	5 A	- beige
15 A	- blue		

## Fuse holder - Fuse assignment 08.03 ➤



The fuse protection for the unlisted optional equipment is listed in the corresponding current flow diagram.

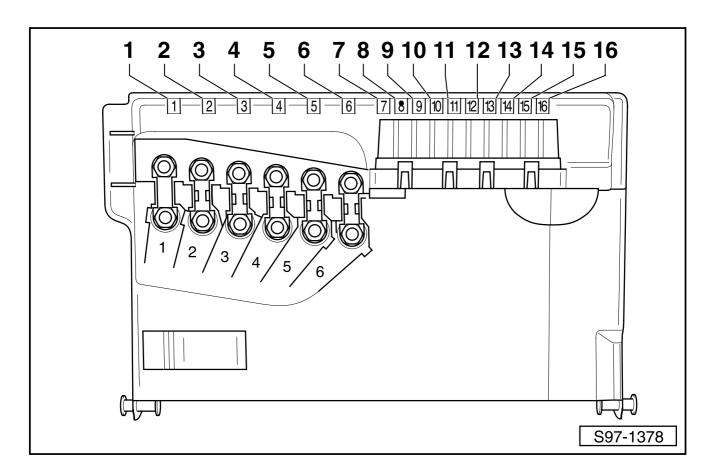
1 -	Dash panel insert, ESP	5 A	13	-	Reversing lights	10 A
2 -	Brake lights	10 A	14	-	Engine control unit	10 A
3 -	Voltage supply diagnosis, Air conditioning system	5 A	15	-	Wiper and washer system	10 A
4 -	Interior light, Glove box light, Luggage compartment light	10 A	16	-	Dash panel insert	5 A
5 -	not assigned		17	-	Engine control unit Engine control unit for 1.2/40 kW, 1.2/47 kW	5 A 15 A
6 -	Headlight range control	5 A	18	-	Telephone	5 A
7 -	Engine electronics, Power assisted steering	5 A	19	-	Automatic gearbox	
8 -	not assigned		20	-	Bulb failure warning lamp	
9 -	Lambda probe	10 A	21	-	Heated washer nozzles	
10 -	S contact (86s)	5 A	22	-	not assigned	
11 -	Heated and adjustable exterior mirrors	5 A	23	-	Right main beam	10 A
12 -	Fresh and recirculated air flap, Air conditioning system, Navigation system, Telephone, Gas discharge lamps	5 A	24	-	Engine electronics	10 A

25	-	ABS/TCS control unit ABS/ESP control unit	5 A 10 A	47	-	not assigned	
26			10 A	40		Engine control unit	20.4
	-	not assigned		48	-	Engine control unit	30 A
27		not assigned		49	-	Central locking	15 A
28	-	Brake pedal switch, Clutch pedal switch, Engine electronics	5 A	50	-	Right main beam / right gas dis- charge lamp, right headlight range control	15 A
29	-	Engine control unit	5 A	51	-	Socket in luggage compartment	15 A
30	-	Left main beam, main beam warning lamp	10 A	52	-	Petrol engine - ignition system	15 A
31	-	Rear lid central locking	10 A	53	-	Power windows	25 A
32	-	Rear window wiper	10 A	54	-	Left main beam / left gas dis- charge lamp, left headlight range control	15 A
33	-	Right parking light	5 A	55	-	not assigned	
34	-	Left side light	5 A	56	-	Engine control unit	20 A
35	-	Petrol engine - injection valves	10 A	57	-	Trailer coupling	25 A
36	-	Number plate light	5 A	58	-	Power windows	25 A
37	-	Rear fog light, rear fog light warning lamp	7,5 A	59	-	not assigned	
38	-	Heated and adjustable exterior mirror	5 A	60	-	Anti-theft alarm system	
39	-	Rear window heater	20 A	61	-	Fuel pump	15 A
40	-	Horn	20 A	62	-	Sliding roof	25 A
41	-	Windscreen wiper	20 A	63	-	Seat heatings	15 A
42	-	Socket	15 A	64	-	Headlight washer system	20 A
43	-	Onboard supply control unit, Selectorlever lock	20 A	65	-	Fog light 1	
44	-	Flashing lights	15 A	66	-	Power windows	25 A
45	-	Radio, Navigation system	20 A	67	-	not assigned	
46	-	Power windows	25 A	68	-	Fresh air blower	25 A

## **Fuse colours**

30 A	- green	10 A	- red
25 A	- white	7.5 A	- brown
20 A	- yellow	5 A	- beige
15 A	- blue		

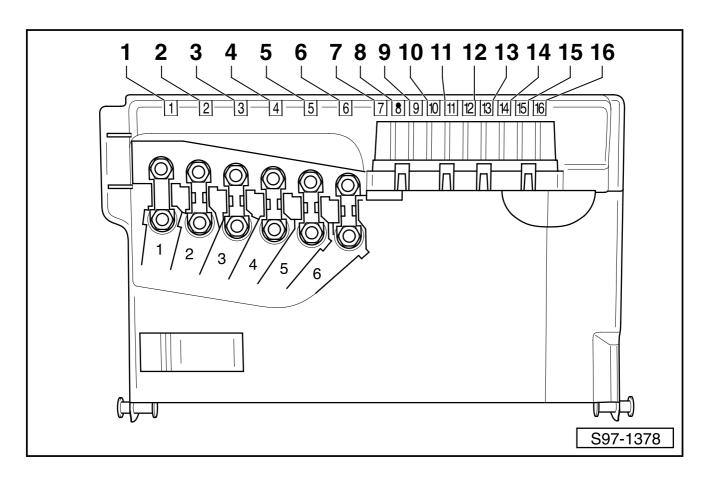
### Fuse holder on battery 08.02 ➤ 07.03



#### Fuse assignment in fuse holder on battery

1 -	Alternator	175 A	9	-	not assigned	
2 -	Interior compartment	110 A	10	-	Onboard supply control unit	5 A
3 -	Power assisted steering	50 A	11	-	Air conditioning system	5 A
4 -	Glow plugs / secondary air pump	40 A	12	-	not assigned	
5 -	Radiator fan	40 A	13	-	Automatic gearbox	5 A
6 -	ABS/TCS/ESP	40 A	14	-	Wiper motor switch-over relay (up to 04.03)	20 A
7 -	ABS/TCS/ESP	25 A	15	-	not assigned	
8 -	Radiator fan	30 A	16	-	not assigned	

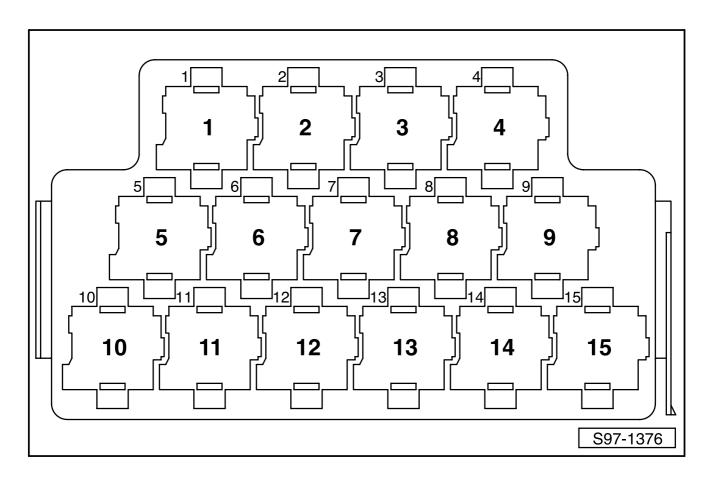
### Fuse holder on battery 08.03 ➤



#### Fuse assignment in fuse holder on battery

1 -	Alternator	175 A	9 -	not assigned	
2 -	Interior compartment	110 A	10 -	Onboard supply control unit	5 A
3 -	Power assisted steering	50 A	11 -	Air conditioning system	5 A
4 -	Glow plugs / secondary air pump	40 A	12 -	not assigned	
5 -	Radiator fan	40 A	13 -	Automatic gearbox	5 A
6 -	ABS/TCS/ESP	40 A	14 -	not assigned	
7 -	ABS/TCS/ESP	25 A	15 -	not assigned	
8 -	Radiator fan	30 A	16 -	not assigned	

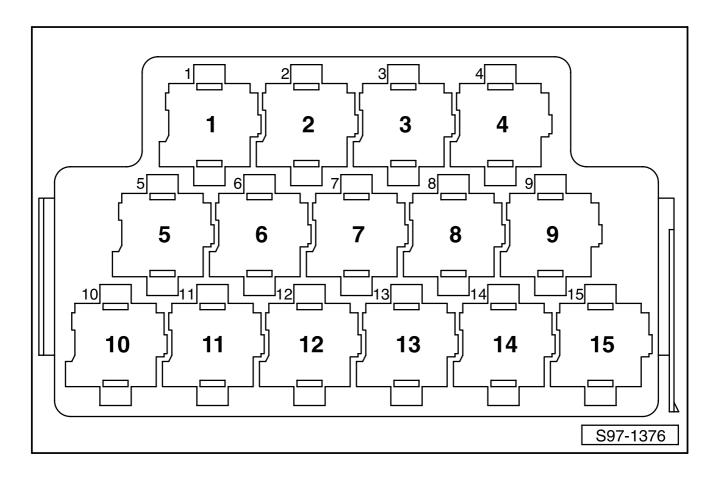
#### Relay holder 08.02 ➤ 07.03



#### Relay position assignment on relay holder

- 1 Secondary air pump relay
- 2 Motronic power supply relay
- 3 Glow plug relay
- 4 Fuel pump relay
- 5 Door warning light relay (up to 10.02)
  - Not assigned (as of 11.02)
- 6 Headlight washer system relay
- 7 Starter lockout relay
- 8 Low heating capacity relay
- 9 High heating capacity relay
  - Fuel feed relay
- **10** not assigned (up to 10.02)
  - Additional fuse holder for heating element for additional heater (PTC) (as of 11.02)
- 11 X contact relief relay
- 12 Power supply relay for the Simos control unit (only for 1.2/40 kW, 1.2/47 kW)
- 13 Bulb failure control unit
- 14 Bulb failure control unit
- 15 Diesel direct injection system relay

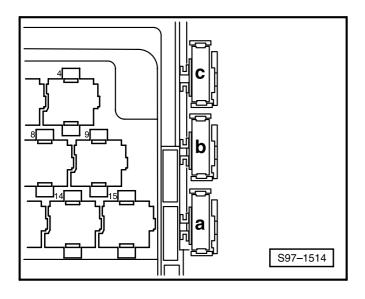
#### Relay holder 08.03 ➤



#### Relay position assignment on relay holder

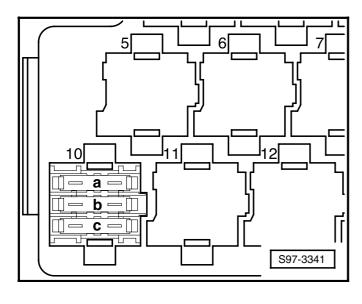
- 1 Secondary air pump relay
- 2 Motronic power supply relay
- 3 Glow plug relay
- 4 Fuel pump relay
- 5 not assigned
- 6 Headlight washer system relay
- 7 Starter lockout relay
- 8 Low heating capacity relay
- 9 High heating capacity relay
  - Fuel feed relay
- 10 Auxiliary relay holder for heating element for auxiliary heater (PTC)
- 11 X contact relief relay
- 12 Power supply relay for the Simos control unit (only for 1.2/40 kW, 1.2/47 kW)
- 13 Bulb failure control unit
- 14 Bulb failure control unit
- 15 Diesel direct injection system relay

#### Additional fuse holder 08.02 ➤ 10.02



Heating element fuse -1-S277 Heating element fuse -2-S278 Heating element fuse -3-

#### Additional fuse holder 11.02 ➤



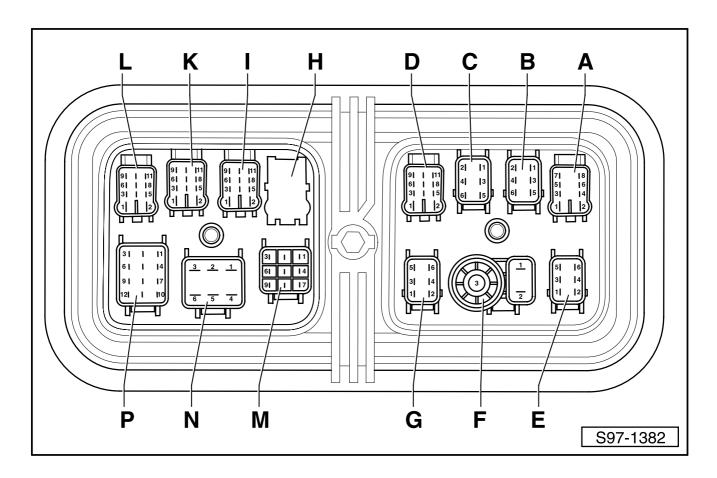
a - S276 Heating element fuse -1b - S277 Heating element fuse -2c - S278 Heating element fuse -3-

### Multipin plug connections

#### **Contents overview**

-	Connector location and contact assignment of multipin connector on the left firewall	. 2/2
-	Contact assignment of multipin connector at dash panel insert	. 2/3
-	Contact assignment of multipin connector for Diagnostic connection	. 2/6
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-	Signal description at onboard supply control unit	. 2/8
-	Contact assignment of multipin connector at engine control units	2/11
-	Plug contact assignment of central locking lock unit	2/12
-	Plug contact assignment of convenience system central control unit J393	2/13
-	Plug contact assignment of ABS / ABS with EDL and TCS / ESP control unit	2/15
-	Plug contact assignment of airbag control unit	2/16
-	Plug contact assignment of front left door control unit	2/17
-	Plug contact assignment of front right door control unit	2/19
-	Plug contact assignment of rear door control unit	2/21
-	Plug contact assignment of power steering control unit	2/22
-	Plug contact assignment of sliding sunroof adjustment control unit	2/24
_	Plug contact assignment of sliding suproof adjustment regulator	2/24

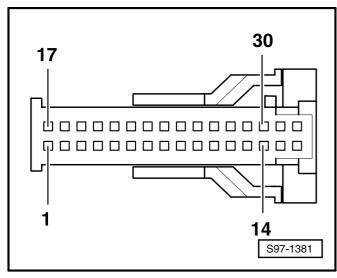
# Connector location and contact assignment of multipin connector on the left firewall



Α	-	T8e	8-pin connector (orange)
В	-	T6n	6-pin connector (blue)
С	-	T6r	6-pin connector (brown)
D	-	T11a	11-pin connector (white)
Ε	-	T6v	6-pin connector (green)
F	-	T3a	3-pin connector (grey)
G	-	Т6р	6-pin connector (red)
Н	-		Not assigned
H I		T11c	Not assigned 11-pin connector (blue)
I	-	T11c T11b	_
I	-		11-pin connector (blue)
I K	- - -	T11b	11-pin connector (blue) 11-pin connector (red)
I K L	- - -	T11b T11d	11-pin connector (blue) 11-pin connector (red) 11-pin connector (brown)

14

#### Contact assignment of multipin connector at dash panel insert



T32a/1 Immobilizer reading coil T32a/2 Main beam warning lamp T32a/3 3 Dipped beam warning lamp T32a/4 4 Oil level/oil temperature sender T32a/5 Speed signal - output 5 T32a/6 Speed signal - input 6 T32a/7 7 CAN L (engine) T32a/8 CAN H (engine) 8 T32a/9 CAN H (comfort) T32a/10 CAN L (comfort) T32a/11 Multifunction display T32a/12 Multifunction display

18 T32a/18 Rear fog light warning lamp 19 T32a/19 Fog light warning lamp T32a/20 Seat belt warning system warning lamp 21 -T32a/21 Handbrake warning switch 22 T32a/22 Brake fluid level warning contact T32a/23 Oil pressure switch 23 24 -T32a/24 wake up (wake up cable) 25 -T32a/25 not assigned 26 - T32a/26 not assigned 27 T32a/27 Multifunction display 28 - T32a/28 not assigned 29 -T32a/29 Headlight bulb failure warning lamp 30 - T32a/30 Washer fluid level sender

T32a/31 Ambient temperature sensor

T32a/32 Terminal 31 for output sender

T32a/13 Warning concerning failure of a

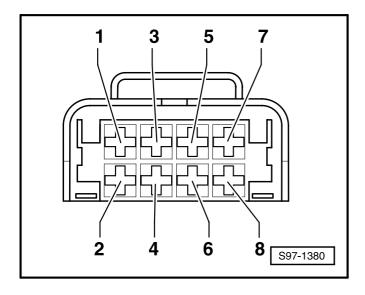
T32a/16 Coolant shortage indicator sender

brake light

T32a/14 not assigned 15 - T32a/15 Fuel gauge sender

17 - T32a/17 Immobilizer reading coil

### Contact assignment of multipin connector at dash panel insert



1 - T8c/1 Brake pad/lining warning lamp
2 - T8c/2 not assigned
3 - T8c/3 not assigned
4 - T8c/4 Right parking light
5 - T8c/5 Terminal 15 - input
6 - T8c/6 Left parking light
7 - T8c/7 Terminal 30 - input

Terminal 31 - input

T8c/8

#### Warning lamp control in dash panel insert

Warning lamp	Signal source
Main beam warning lamp (K1)	T32a/2
Alternator warning lamp (K2)	CAN bus (Onboard supply control unit)
Oil pressure warning lamp (K3)	T32a/23
Brake fluid level warning lamp (K7)	T32a/22, CAN bus (ABS control unit)
Handbrake warning lamp (K7)	T32a/21
Rear fog light warning lamp (K13)	T32a/18
Fog light warning lamp (K17)	T32a/19
Trailer operation warning lamp (K18)	CAN bus (Onboard supply control unit)
Seat belt warning system warning lamp (K19)	T32a/20, CAN bus (Airbag control unit)
Coolant temperature warning lamp (K28)	CAN bus (Engine control unit)
Coolant shortage warning lamp (K28)	T32a/16
Glow period warning lamp (K29)	CAN bus (Engine control unit)
Brake pad/lining warning lamp (K32)	T8c/1
Oil level warning lamp (K38)	T32a/4
ABS warning lamp (K47)	CAN bus (ABS control unit)

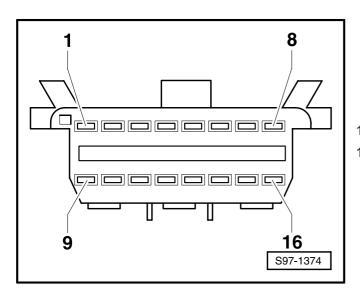
#### Warning lamp control in dash panel insert

Warning lamp	Signal source
Dipped beam warning lamp (K60)	T32a/3
Left turn signal warning lamp (K65)	CAN bus (Onboard supply control unit)
Airbag warning lamp (K75)	CAN bus (Airbag control unit)
Exhaust emissions warning lamp (K83)	CAN bus (engine control unit)
TCS warning lamp (K86)/ESP warning lamp (K155)	CAN bus (ABS/TCS/ESP control unit)
Power steering warning lamp (K92)	CAN bus (Onboard supply control unit)
Right turn signal warning lamp (K94)	CAN bus (Onboard supply control unit)
Reserve fuel warning lamp (K105)	T32a/15
Washer fluid low warning lamp (K106)	T32a/30
Immobilizer warning lamp (K117)	Immobilizer control unit
Electronic power control fault lamp (K132)	CAN bus (engine control unit)
Door open warning lamp (K166)	CAN bus (Onboard supply control unit)
Rear lid open warning lamp (K116)	CAN bus(Onboard supply control unit)
Bulb failure warning lamp (K170)	T32a/13, 29
Rear seat backrest lock warning lamp (K193)	CAN bus (Onboard supply control unit)

#### Read out control in dash panel insert

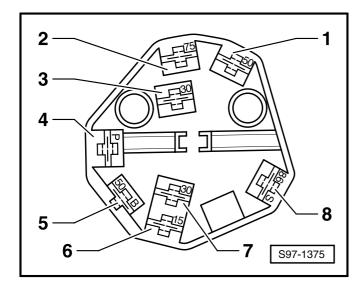
Read out	Signal source
Fuel gauge (G1)	T32a/15
Coolant temperature gauge (G3)	CAN bus (Engine control unit)
Rev. Counter (G5)	CAN bus (engine control unit)
Speedometer (G21)	T32a/6
Buzzer/gong (H3)	Control unit in dash panel insert
Digital clock (Y2)	Control unit in dash panel insert
Odometer display (Y4)	Control unit in dash panel insert
Multifunction display (J119)	T32a/11, 12, 27, 31, CAN bus (Engine control unit), control unit in dash panel insert
Selector lever position indicator (Y6)	CAN bus (control unit for automatic gearbox)

#### Contact assignment of multipin connector for diagnostic connection



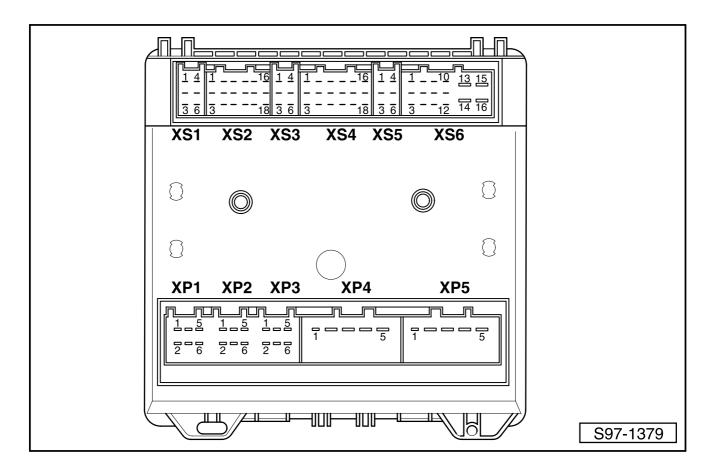
- 4 T16b/4 Terminal 31
- 5 T16b/5 Terminal 31
- 6 T16b/6 CAN H (engine, switched on)
- 7 T16b/7 K- diagnostic cable
- 14 T16b/14 CAN L (engine, switched on)
- 16 T16b/16 Terminal 30

### Contact assignment of multipin connector at ignition/starter switch



- 1 T8a/50
- 2 T8a/75
- 3 T8a/30
- 4 T8a/P
- 5 T8a/50b
- 6 T8a/15
- 7 T8a/30
- 8 T8a/86s

# Connector location and contact assignment of multipin connector at onboard supply



XS1 -T6c 6-pin connector (black) XS2 T18b 18-pin connector (black) XS3 T6y 6-pin connector (brown) XS4 -T18a 18-pin connector (brown) XS5 T6k 6-pin connector (red) T16a XS6 16-pin connector (black) 6-pin connector (black) XP1 -T<sub>6</sub>o XP2 T6j 6-pin connector (brown) XP3 -T<sub>6</sub>x 6-pin connector (red) XP4 T5a 5-pin connector (black) XP5 -T5c 5-pin connector (brown)

### Signal description on onboard supply control unit

Connector		Signal
XS1	T6c/1	Input of light switch (for headlight washer system)
	T6c/2	Input of regulator for lighting - switches and instruments (58b)
	T6c/3	Output of warning lamp + hazard warning light button illumination
	T6c/4	Input of heated rear window button (31)
	T6c/5	Output for heated rear window warning lamp
	T6c/6	Input of hazard warning light button (31)
XS2	T18b/1	Output for selector level lock
	T18b/2	Output (release) for sliding sunroof adjustment control unit (15)
	T18b/3	Output (block) for heated driver seat control unit
	T18b/4	
	T18b/5	
	T18b/6	
	T18b/7	
	T18b/8	
	T18b/9	CAN-L, comfort
	T18b/10	Output (block) for heated driver seat control unit
	T18b/11	
	T18b/12	CAN-H, comfort
	T18b/13	Input of multi-function switch for automatic gearbox (31)
	T18b/14	Output for headlight washer system relay
	T18b/15	
	T18b/16	
	T18b/17	Output for start interlock relay
	T18b/18	
XS3	T6Y/1	
	T6Y/2	Input of CCS switch (Off)
	T6Y/3	Input of CCS switch (On/Off)
	T6Y/4	
	T6Y/5	Input of CCS switch (support/accelerate)
	T6Y/6	Input of CCS switch (set)

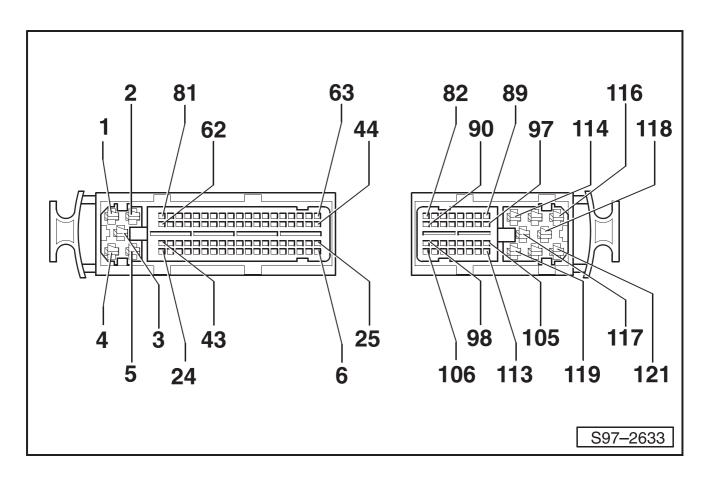
Connector		Signal		
XS4	T18a/1	K-cable		
	T18a/2	Input of ignition starter switch (86s)		
	T18a/3	Input of rear right door contact switch (31)		
	T18a/4	Input of front right door contact switch (31)		
	T18a/5	Input of fuse in fuse holder on battery (30 analogous)		
	T18a/6	Input of front left door contact switch (31)		
	T18a/7	Input of left backrest contact switch (31)		
	T18a/8	Input (31 analogous)		
	T18a/9	Input of alternator (D+)		
	T18a/10	Input of right backrest contact switch (31)		
	T18a/11	Input of ignition starter switch (75)		
	T18a/12	Input of ignition starter switch (15)		
	T18a/13	Input of rear left door contact switch (31)		
	T18a/14	Input of ignition starter switch (50)		
	T18a/15	Input of windscreen wiper switch, output for rear window wiper		
	T18a/16	Input of castor contact of windscreen wiper motor		
	T18a/17	Input of actuating the horn (31)		
	T18a/18	Input of regulator for the windscreen wiper interval switching		
XS5	T6k/1			
	T6k/2			
	T6k/3	Input of central locking switch, in rear lid lock (31)		
	T6k/4	Input of central luggage compartment illumination switch, in rear lid lock		
	T6k/5			
	T6k/6	Input of rear lid handle release button (31)		
XS6	T16a/1			
	T16a/2	CAN-L, switched		
	T16a/3	CAN-L		
	T16a/4			
	T16a/5	CAN-L		
	T16a/6	CAN-H, switched		
	T16a/7	Input of windscreen wiper switch (1st stage)		
	T16a/8	Input of windscreen wiper switch (2nd stage)		
	T16a/9	Output for fuel feed relay (31)		
	T16a/10	Input of turn signal switch (left turn signal) (31)		

Continued on next page!

Connector		Signal
XS6	T16a/11	Output for dash panel insert (Wake up)
	T16a/12	Input of turn signal switch (right turn signal) (31)
	T16a/13	Input of engine hood contact switch (31)
	T16a/14	Output for right turn signal
	T16a/15	Input of fuse 44a (30)
	T16a/16	Output for left turn signal
XP1	T6o/1	Input of fuse 13a (15) (only for vehicles fitted with automatic gearbox)
	T6o/2	Input of reversing light switch (not valid for vehicles with automatic gearbox), Output for reversing light switch (only for vehicles with automatic gearbox)
	T6o/3	
	T6o/4	
	T6o/5	Output for rear lid central locking motor
	T6o/6	Input of fuse 31a (30)
XP2	T6j/1	Input of fuse 43a (30)
	T6j/2	
	T6j/3	
	T6j/4	Input of fuse 4a (30)
	T6j/5	
	T6j/6	Output for interior light, luggage compartment light, glove box light (30al)
XP3	T6x/1	Input of exterior mirror heating button
	T6x/2	Output for left heated exterior mirror
	T6x/3	
	T6x/4	Output for right heated exterior mirror
	T6x/5	
	T6x/6	Input of fuse 38a (30)
XP4	T5a/1	Output for front interior light (31)
	T5a/2	Input (31)
	T5a/3	Input of fuse 41a (30)
	T5a/4	Output for windscreen wiper motor (1st stage)
	T5a/5	Output for windscreen wiper motor (2nd stage)
XP5	T5c/1	Input of windscreen wiper motor (31) (brake application)
	T5c/2	Output for horn
	T5c/3	Input of fuse 40a (30)
	T5c/4	Output for heated rear window
	T5c/5	Input of fuse 39a (30)

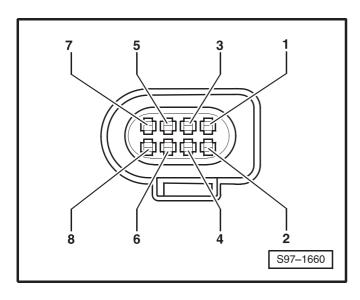
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### Contact assignment of multipin connector on the engine control units



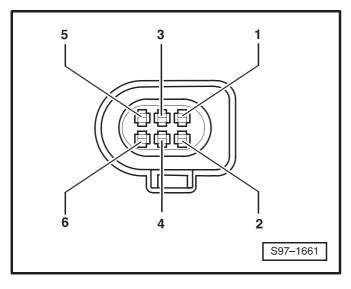
Note: Refer to the appropriate current flow diagram for the exact contact assignment.

# Plug contact assignment of central locking lock unit, driver side T8f and front passenger side T8g



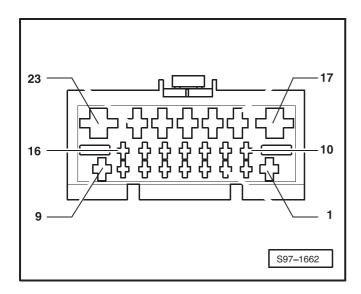
1	-	T8f/1 or	Central locking motor
2	-	T8g/1 T8f/2 or T8g/2	Central locking motor
3	-	T8f/3 or T8g/3	free
4	-	T8f/4 or T8g/4	Close (without resistance), open (above resistance 180 $\Omega$ )
5	-	T8f/5 or T8g/5	Feedback for -closed- (without resistance), feedback for -closed with Safe- (with resistance 180 $\Omega$ )
6	-	T8f/6 or T8g/6	free
7	-	T8f/7 or T8g/7	Earth
8	-	T8f/8 or T8g/8	Door contact switch earth

# Plug contact assignment of central locking lock unit, rear left T6c and rear right T6d



1 -	T6c/1 or T6d/1	Central locking motor
2 -	T6c/2 or T6d/2	Central locking motor
3 -	T6c/3 or T6d/3	Feedback for -closed- (without resistance), feedback for -closed with Safe- (with resistance 180 $\Omega$ ),
4 -	T6c/4 or T6d/4	free
5 -	T6c/5 or T6d/5	Earth
6 -	T6c/6 or T6d/6	Door contact switch earth

# 23-pin plug contact assignment of convenience system central control unit J393,

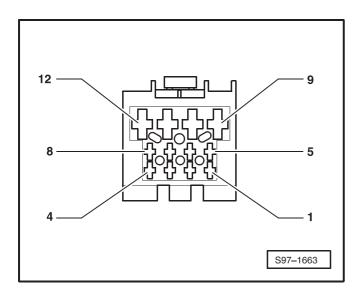


1	-	T23a/1	Driver side central locking motor
2	-	T23a/2	Feedback for -closed- (without resistance), feedback for -closed with Safe- (with resistance 180 $\Omega$ ), front passenger side
3	-	T23a/3	Door warning light relay (only for vehicles with door warning lights) (up to 10.02)
4	-	T23a/4	Central locking warning lamp in driver door
5	-	T23a/5	Close (without resistance), open (above resistance 180 $\Omega$ ), front passenger side
6	-	T23a/6	Close (without resistance), open (above resistance 180 $\Omega$ ), driver side
9	-	T23a/9	Feedback for -closed- (without resistance), feedback for -closed with Safe- (with resistance 180 $\Omega$ ), driver side
10	-	T23a/10	Data bus CAN-Low, comfort
11	-	T23a/11	Data bus CAN-High, comfort
12	-	T23a/12	Sliding sunroof adjustment control unit (actuation)
13	-	T23a/13	K-diagnostic cable connection
17	-	T23a/17	Earth
19	-	T23a/19	Front passenger side central locking motor
21	-	T23a/21	Front passenger side central locking motor

22 - T23a/22 Driver side central locking motor
23 - T23a/23 Positive connection 30a, via fuse

SB 49

# 12-pin plug contact assignment of convenience system central control unit J393, (black)

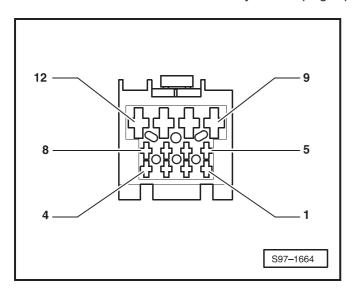


1 -	T12c/1	Feedback for -closed- (without resistance), feedback for -closed with Safe- (with resistance 180 $\Omega$ ), rearright
3 -	T12c/3	Feedback for -closed- (without resistance), feedback for -closed with Safe- (with resistance 180 $\Omega$ ), rear left
_	T40 /0	D : 11 ( ) 11 ( )

9 - T12c/9 Rear right central locking motor
10 - T12c/10 Rear left central locking motor
11 - T12c/11 Rear right central locking motor
12 - T12c/12 Rear left central locking motor

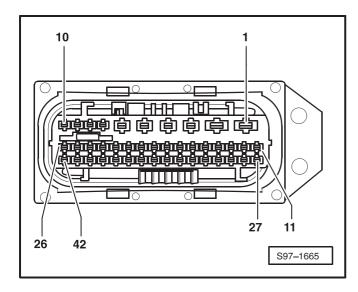
# 12-pin plug contact assignment of convenience system central control unit J393, only for vehicles fitted with central locking remote control or with anti-theft alarm system (brown)

On vehicles fitted with anti-theft alarm system no plug is placed on.



1	-	T12i/1	Interior monitoring sensor
2	-	T12i/2	Interior monitoring sensor
6	-	T12i/6	Alarm horn
8	-	T12i/8	Interior monitoring sensor
10	-	T12i/10	Positive connection 30a, via fuse SB 60
11	-	T12i/11	T6v/4 connector, on left firewall

## Plug contact assignment of ABS/ABS with EDL and TCS/ESP control unit



1 - T42a/1 Earth

2 - T42a/2 Positive connection 30, via fuse S178

5 - T42a/5 Earth

6 - T42a/6 Positive connection 30, via fuse S179

 8 - T42a/8 Lateral acceleration and yaw rate sender

 9 - T42a/9 Lateral acceleration and yaw rate sender

 T42a/10 Lateral acceleration and yaw rate sender

12 - T42a/12 Front left speed sensor

13 - T42a/13 Rear left speed sensor

14 - T42a/14 Rear left speed sensor

15 - T42a/15 Front right speed sensor

16 - T42a/16 Front right speed sensor

19 - T42a/19 Signal for navigation system control

T42a/21 Lateral acceleration and yaw rate sender, steering angle sender

23 - T42a/23 Positive connection 15a, via fuse SB 25

24 - T42a/24 Data bus CAN-High

25 - T42a/25 Sender -1- for brake pressure

26 - T42a/26 Sender -1- for brake pressure

27 - T42a/27 ASR / ESP switch

28 - T42a/28 Front left speed sensor

30 - T42a/30 Rear right speed sensor

31 - T42a/31 Rear right speed sensor

32 - T42a/32 Brake light switch

 34 - T42a/34 Signal for navigation system control unit

37 - T42a/37 Brake pedal switch

38 - T42a/38 Handbrake warning switch

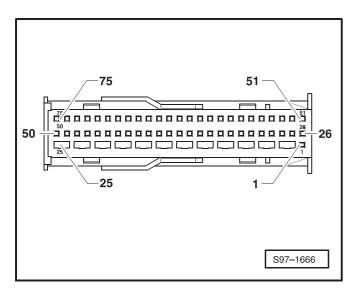
39 - T42a/39 Lateral acceleration and yaw rate sender, steering angle sender

40 - T42a/40 Data bus CAN-Low

41 - T42a/41 Lateral acceleration and yaw rate

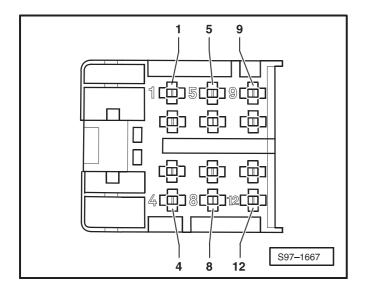
42 - T42a/42 Sender -1- for brake pressure

#### Plug contact assignment of airbag control unit



- 26 T75a/26 Positive connection 15
- 27 T75a/27 Side airbag igniter, front passenger side
- 28 T75a/28 Side airbag igniter, front passenger side
- 29 T75a/29 Side airbag igniter, driver side
- 30 T75a/30 Side airbag igniter, driver side
- 31 T75a/31 Airbag igniter, front passenger side
- 32 T75a/32 Airbag igniter, front passenger side
- 33 T75a/33 Airbag igniter, driver side, via coil connector in steering wheel
- 34 T75a/34 Airbag igniter, driver side, via coil connector in steering wheel
- 41 T75a/41 Belt tensioner igniter, driver side
- 42 T75a/42 Belt tensioner igniter, driver side
- 43 T75a/43 Belt tensioner igniter, front passenger side
- 44 T75a/44 Belt tensioner igniter, front passenger side
- 51 T75a/51 Earth
- 56 T75a/56 Front passenger side airbag deactivated warning lamp
- 60 T75a/60 Front passenger side airbag deactivation key switch
- 70 T75a/70 Side airbag crash sensor, driver side
- 71 T75a/71 Side airbag crash sensor, front passenger side
- 74 T75a/74 Data bus CAN-High
- 75 T75a/75 Data bus CAN-Low

#### 12-pin plug contact assignment of front left door control unit, black plug

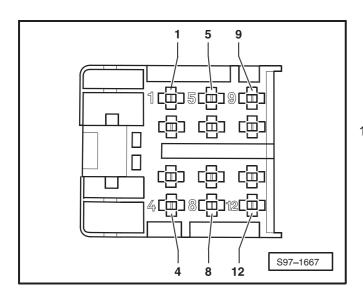


1	-	T12d/1	Front left window regulator switch
2	-	T12d/2	Illumination for central switch for window regulator
3	-	T12d/3	Front left window regulator switch, driver
4	-	T12d/4	Illumination - mirror adjustment switch
5	-	T12d/5	Driver side interior locking switch
6	-	T12d/6	Rear window regulator isolation switch
7	-	T12d/7	Rear right window regulator switch, driver
8	-	T12d/8	Rear left window regulator switch, driver
9	_	T12d/9	Earth

10 - T12d/10 Mirror adjustment switch
11 - T12d/11 Exterior mirror heating button

12 - T12d/12 Mirror adjustment change-over switch (left, right)

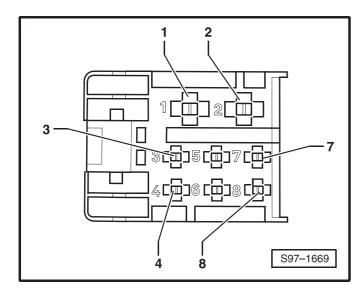
# 12-pin plug contact assignments of front left door control unit, brown plug



1 - T12e/1 Driver side mirror adjustment motor
5 - T12e/5 Driver side mirror adjustment motor
6 - T12e/6 Driver side mirror adjustment motor
8 - T12e/8 Driver side heated exterior mirror
10 - T12e/10 Driver side heated exterior mirror

No.2/18 Fitting Locations FABIA

### 8-pin plug contact assignment of front left door control unit



1 - T8h/1 Positive connection 30a, via fuse SB 58

2 - T8h/2 Earth

4 - T8h/4 Data bus CAN-High, comfort
5 - T8h/5 Onboard supply control unit
6 - T8h/6 Data bus CAN-Low, comfort