Passat

Current Flow Diagram

No. 59/1 Edition 04.2004

Climatronic

• Models with 6-cylinder From October 2000

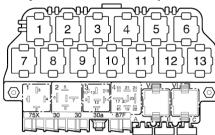
For alternatives to relay and fuse positions as well as multi-pin connector wiring - see "Fitting locations" section.

Relay locations on the 13 position additional relay carrier above the relay plate:

3 - Magnetic coupling relay (267)

Relay locations on relay plate:

Relay locations on the 8 position additional relay carrier behind the relay plate:

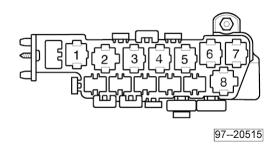


97--20676

- 1 Radiator fan run-on relay (214)
- 2 Radiator fan V7 relay -2nd speed
- 5 Radiator fan V7 and V35 relay, 1st speed



The number in brackets behind the part designation denotes the control number on the housing.



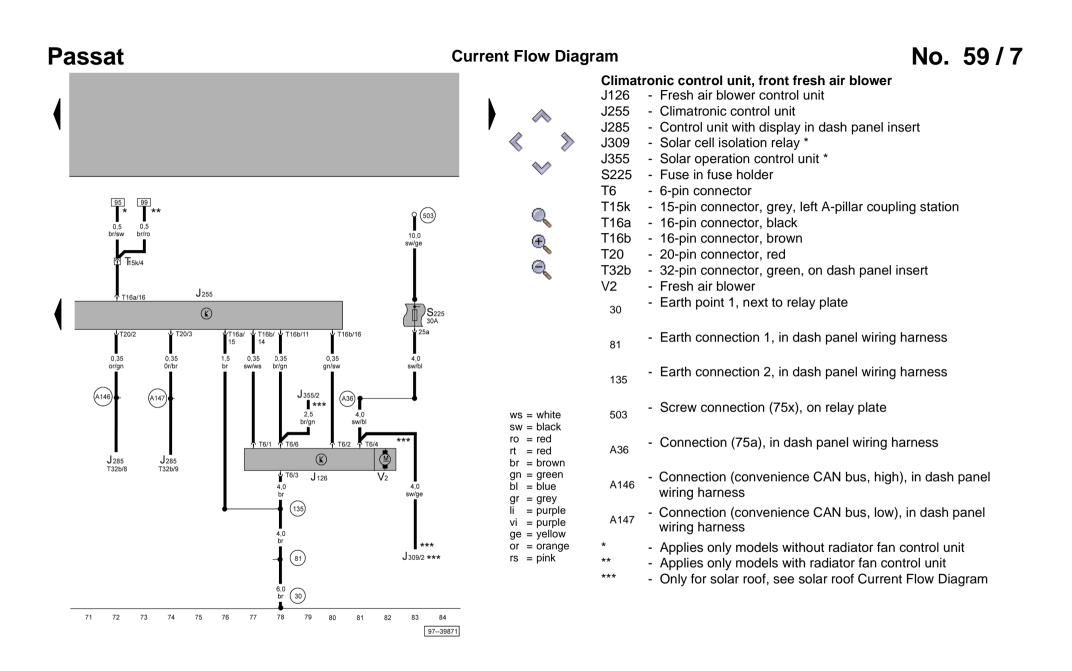
Passat No. 59/2 **Current Flow Diagram** Climatronic control unit, air conditioner magnetic coupling, magnetic coupling relay - Ignition/starter switch D E87 - Control and display unit for air conditioner/Climatronic G56 - Dash panel temperature sensor - Magnetic coupling relay J44 \checkmark J255 - Climatronic control unit D/15 69 L75 - Digital display illumination 4,0 sw - Button illumination L76 Q 0,35 - Air conditioning system magnetic coupling N25 sw/ro S5 - Fuse in fuse box/relay plate (A2) Ð (A74) T3k - 3-pin connector, grey, connector point left A-pillar 2,5 sw Q 1,0 sw/ro 0,35 sw/ro 1,5 sw/ro T16a - 16-pin connector, black V42 - Temperature sensor blower 15 ∩T16a/9 E87 L75 L76 J_{44} - Positive (+) connection (15), in dash panel wiring harness 2/30 6/85 A2 8888 8888 K 4/86 8/87 - Connection (15a, fuse 5), in dash panel wiring harness **5**a 3 T16a/6 G56 V42 **J**255 A74 1,0 2,5 0,35 sw/ro gn/ge an/br ws = white **Т**3к/1 sw = black ro = redrt = red br = brown **٦**gn = greenN25 bl = blue gr = greyli = purple vi = purple ge = yellowor = orange rs = pink 1 2 3 5 10 11 12 13 14 4 6 7 9 97--28126

Passat No. 59/3 **Current Flow Diagram** Climatronic control unit, central flap and footwell/defroster flap control motor G112 - Control motor potentiometer, central flap G114 - Control motor potentiometer, footwell/defroster flap J... - Engine control unit J255 - Climatronic control unit \checkmark S15 - Fuse in fuse box/relay plate T6a - 6-pin connector, black, behind dash panel, centre **S**15 J. - 6-pin connector, blue, behind dash panel, centre T6b Q - 15-pin connector, red, on control unit protective housing, in T15s 1,0 ro/bl 0,35 sw/gr engine compartment, left Ð (A1) T16a - 16-pin connector, black T15s/3 Q 0,35 ro/bl T16b - 16-pin connector, brown - 20-pin connector, red T20 **J**255 V70 - Central flap control motor T16a/7 T16b/12 - Footwell/defroster flap control motor (\mathbf{k}) V85 - Earth connection -3-, in dash panel wiring harness ↓ T16a/ ↓ T16a/3 11 T20/10 7 T20/9 (T16a/ ♥T16a/4 12 199 0,35 0.35 0,35 0.35 0,35 0.35 - Positive (+) connection (30a), in dash panel wiring harness qe/bl ws/ro ge/ws gr/ro gr/ge ws/li A1 - Connection (5 volt), in instruments wiring harness A58 ws = white 0,35 ro/ge sw = black 0,35 ro/ge 0,35 br/ws 0,35 br/ws ro = redrt = red n T6a/2 n T6a/1 n T6a/4 n T6a/6 n T6a/3 Teb/2 To Teb/1 To Teb/4 To Teb/6 To Teb/3 br = browngn = greenbl = blue gr = grey٦ M = purple vi = purple ge = yellowG114 V85 G112 V70 or = orange rs = pink(199) (A58) 15 21 27 28 16 17 18 20 22 23 24 25 26 19 97--28127

Passat No. 59/4 **Current Flow Diagram** Climatronic control unit, air flow flap control motor, sunlight penetration photo-sensor, vent temperature sender, fresh air intake duct temperature sensor - Heated rear window switch E15 G89 - Fresh air intake duct temperature sensor G107 - Sunlight penetration photosensor \checkmark G113 - Control motor potentiometer, air flow flap G191 - Vent temperature sender, centre (A64) J... - Engine control unit 0,35 sw/ge 0,35 sw/ge Q 0,35 J255 - Climatronic control unit sw/ae اً ا... T4a - 4-pin connector, black Ð E15 T6c - 6-pin connector, black Q T12 - 12-pin connector, black - 16-pin connector, black T16a **J**255 T12/2 T20 - 20-pin connector, red (\mathbf{k}) - Air flow flap control motor V71 - Earth connection -3-, in dash panel wiring harness / T16a/ 13 T20/17 🖞 T16a/5 T20/18 T12/7 ¥T12/12¥T20/6 199 0,35 0,35 0,35 0,35 0,35 0,35 0,35 - Connection (5 volt), in instruments wiring harness ws/li ar ws/ar ws/gn br/gn br/ws br/ro A58 - Connection (rpm boost), in dash panel wiring harness A64 ws = white sw = black 0,35 ro/ge 0.35 ro = redbr/ws rt = red Tec/2 To Tec/1 To Tec/4 To Tec/6 To Tec/3 🖾 T4a/1 🛱 T4a/3 🛱 T4a/2 br = browngn = greenbl = blue G89 1 G191 gr = greyÂ 11 Â K M li = purple vi = purple G107 G113 V71 ge = yellow0,35 0,35 0,35 or = orange (199) A T4a/4 br/ws br/ws br/ws rs = pink a-(A58) 29 30 31 32 33 34 35 36 37 38 39 40 41 42 97--28128

Passat No. 59/5 **Current Flow Diagram** Climatronic control unit, temperature flap control motor, diagnostic socket - Control motor potentiometer for temperature flap G92 - Automatic intermittent wash/wipe relay J31 J255 - Climatronic control unit T6d - 6-pin connector, red, behind dash panel, centre \checkmark T12 - 12-pin connector, black T16 - 16-pin connector, near handbrake lever, self-diagnosis T16/7 **1** 0,35 gn **J** 31/53e **J** 31/53c connection L Q 1,0 sw/li 1,0 T16a - 16-pin connector, black - 16-pin connector, brown T16b (A49) (A156) (A76) Ð T20 - 20-pin connector, red 0,35 V68 - Temperature flap control motor 0,35 0,35 gn/li sw/li - Earth connection -3-, in dash panel wiring harness K T12/1 199 J_{255} T12/10 T16b/7 K - Connection -1-, in dash panel wiring harness A49 T16a/2 🕁 T16a/10 · T20/8 T16b/8 , T12/9 - Connection (5 volt), in instruments wiring harness 0,35 0,35 0,35 0,35 0,35 A58 ws/ge gr/ws ge ro/ge br/ws - Connection (diagnosis wire K), in dash panel wiring harness A76 ws = white Connection (53c), in dash panel wiring harness sw = black A156 ro = redrt = red T6d/2 0,35 0,35 br = brown ro/ge br/ws gn = greenbl = blue gr = grey 囫 = purple vi = purple G92 V68 ge = yellowor = orange rs = pink (199) (A58) 55 43 44 45 49 50 51 52 53 54 56 46 47 48 97--28129

Pas	sat	Current Flow Diag	ram	No. 59/6
Pas ($\frac{J_{255}}{10}$	k/14 k/13 k/13 k/13 k/13 k/13 k/13 k/14 k/13 k/14 k/13 k/13 k/13 k/14 k/13 k/14 k/13 k/13 k/14 k/13 k/13 k/14 k/13 k/14 k/13 k/13 k/14 k/13 k/13 k/14 k/13 k/14 k/14 k/13 k/14 k/14 k/13 k/14	Climatronic control unit, ambient temperature sensor, air conditioner pressure F129 - Air conditioner pressure switch F189 - Tiptronic switch G17 - Ambient temperature sensor G192 - Footwell vent temperature sender G263 - Evaporator out-flow temperature sender J255 - Climatronic control unit J285 - Control unit with display in dash panel it T2b - 2-pin connector T4e - 4-pin connector, on left in front of engine T14k - 14-pin connector, black T15k - 15-pin connector, grey, left A-pillar coup T16b - 16-pin connector, brown T20 - 20-pin connector, green, on dash panel it T32a - 32-pin connector, green, on dash panel it T32b - 32-pin connector green, on dash panel it 199 - Earth connection (sender earth) 1, in dat 199 - Earth connection (sender earth) 1, in dat 199 - Connection (ambient temperature display 19 - Connection 1, in air conditioning system * - Applies only to models with an automat *** - From May 2003	e sensor, vent switch
-	57 58 59 60 61 62 63 64 65 66 67 68 69 [<u></u>	70 9739870		



Passat **Current Flow Diagram *** S102 0,5 sw/ge € 4,0 \$42 40A *** *** **S**51 T15k/7 0,5 ro/ws 2,5 ro/bl 0,5 sw/ro 0,5 sw/ro 2,5 ro/bl 4,0 ro/bl * <u>6/85</u> *** *** * J₃₉₇ 1 2/30 1/30 4/85 2/30 6/85 J₂₈₀ 2 J₂₇₉ 5 4/86 \$ 8/87 2/87 3/86 4/86 8/87 0,5 ws/ge * 0,5 ro/gn 0,5 br/sw 2,5 ro/ws 4,0 ro/sw 2,5 ro/gn 0,5 0,5 ro/gn br/sw 66 72 *** V7 T15k/6 T14k/CT14k/ 67 87 2 *** J...* T2a/2 T2a/1 4,0 4,0 br ro/sw Å F₁₈ 98 **1**,0 T14k/6 4,0 br 0,5 br/ge 0,5 br 0,5 br 1,0 br 4,0 br 110 4,0 br (151) or = purple ge = yellow or = orange rs = pink N39 *** (30) 85 86 87 88 89 90 91 92 93 95 96 97 98 94 97--28132

AM No. 59/8 Radiator fan 1st and 2nd speed relay, radiator fan run-on relay,

		or fail 1st and zhu speed relay, radiator fail run-on relay,
radiator fan, radiator fan series resistor		
	F18	 Radiator fan thermo-switch
· · · · ·	J	 Engine control unit
' «)	J279	- Radiator fan V7 and V35 relay - 1st speed
×	J280	- Radiator fan V7 relay, 2nd speed
\sim	J397	- Radiator fan run-on relay
	N39	- Radiator fan series resistor
-	S42	- Radiator fan single fuse
0 0 0	S51	- Fuse
ര്	S102	- Engine control unit fuse
w.	T2a	- 2-pin connector, in engine compartment, front left
\bigcirc	T14k	- 14-pin connector, black
	T15k	- 15-pin connector, grey, connector point left A-pillar
	V7	- Radiator fan
		- Earth point -1-, next to relay plate
	30	
		- Earth connection -1-, in air conditioner compressor wiring
	127	harness
		- Earth connection -1-, in front wiring harness
	151	
ws = white		Serous connection 1 (20) on relay plate
sw = black	500	 Screw connection -1- (30), on relay plate
ro = red rt = red		
br = brown	503	 Screw connection (75x), on relay plate
gn = green		
bl = blue gr = grey	*	 Only models with diesel engine
li = purple	**	 Only models with fan control unit
vi = purple	***	 Only models without fan control unit

No. 59/9 Passat **Current Flow Diagram** Radiator fan control unit (only models fitted with radiator fan control unit), radiator fan С - Alternator \wedge F18 - Radiator fan thermo-switch J293 - Radiator fan control unit S42 - Radiator fan single fuse \checkmark S51 - Radiator fan relay fuse **6**500 T2p - 2-pin connector T2q - 2-pin connector, in engine compartment, front left Q 4,0 ro 0.5 T6p - 6-pin connector - 14-pin connector, black T14k ** Ð S42 40A S51 T15k/2 T15k - 15-pin connector, grey, connector point left A-pillar V35 - Radiator fan, right 4,0 0,5 0,5 0.5 V51 - Continued circulation of coolant pump br/sw ro/bl sw/ro bl ****** J₂₉₃ ↓ <u>T2p/2</u> . <u>т6р/3</u> , т_{бр/1} - Earth connection -1-, in front wiring harness 151 K (A17) 7 T6p/6 7 T6p/5 T2p/1 - Screw connection -1- (30), on relay plate 500 4,0 sw/ro 4,0 0.5 4.0 ro/ae 0,5 br/ws 1 (11) - Connection (61), in dash panel wiring harness 0,5 0,5 br/ro 0,5 A17 ro/gr ro/gr ****** - Connection -2-, in air conditioner wiring harness **☆**T14k/7 ₫T2q/1 ₫T2q/2 ₫T14k/2 T14k/5 L10 ws = white sw = black 0,5 0,5 ro/gn ro/gn - Connection -3-, in air conditioner wiring harness ro = redL11 ****** ** ** ** rt = redV51 Â V35 F18 86 С br = brown** - Only models with fan control unit gn = green13 bl = blue = grey ar 0.5 0.5 0.5 br = purple br br/ge ** ** ** (151) vi = purple ge = yellowor = orange rs = pink112 99 100 101 102 103 104 105 106 107 108 109 110 111 97--29562