

Transporter

Current Flow Diagram

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Edition 04.1998

Climatronic

- 2.5 ltr./75 kW direct injection turbo diesel, engine code ACV, with manuel gearbox
- 2.8 ltr./103 kW Motronic, engine code AES, with manual gearbox

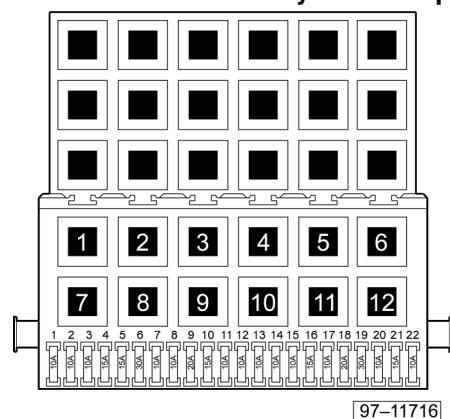
From January 1996

Climatronic

- 2.5 ltr./111 kW direct injection turbo diesel, engine code AHY, with manuel gearbox
- 2.5 ltr./65 kW direct injection turbo diesel, engine code AJT, with manuel gearbox

From May 1998

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



1 - Relais für Climatronic (140)



Note!

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

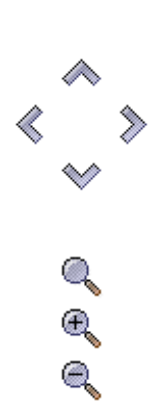
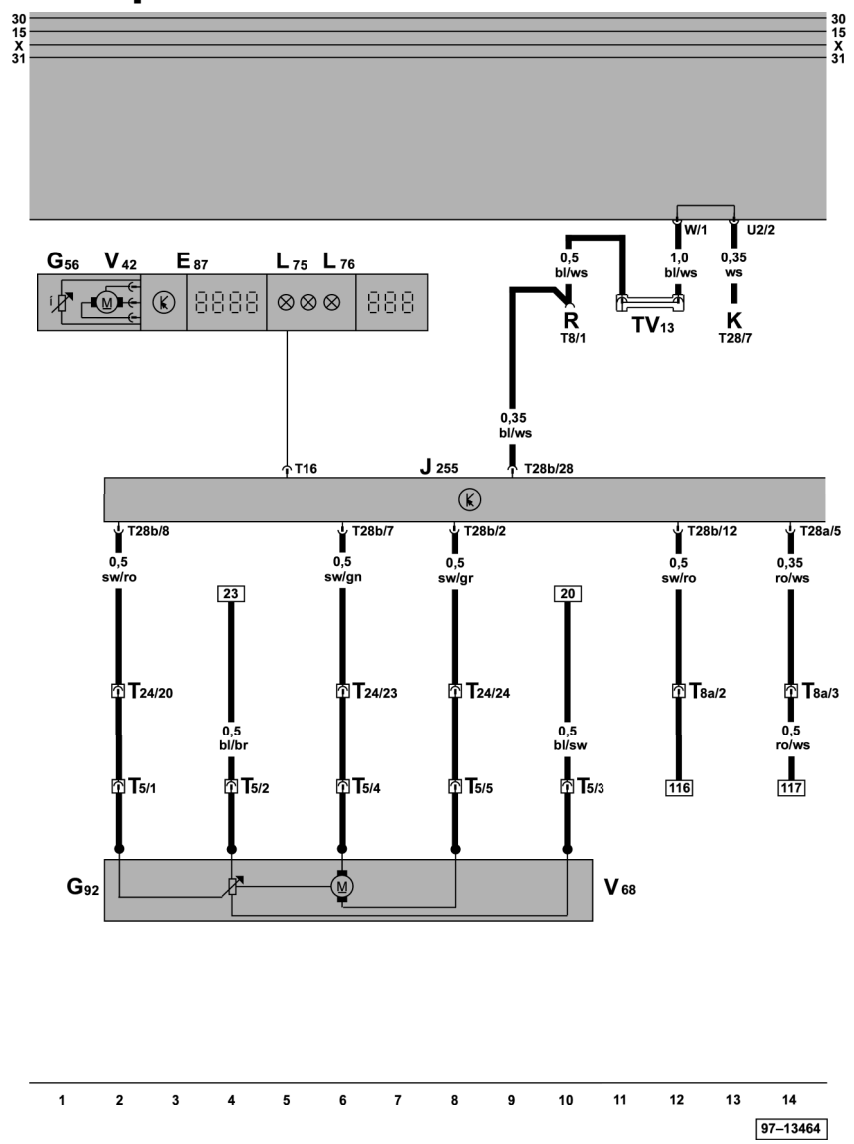
Fuse colours

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

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Current Flow Diagram

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Operating and display unit with temperature sensor, temperature flap control motor

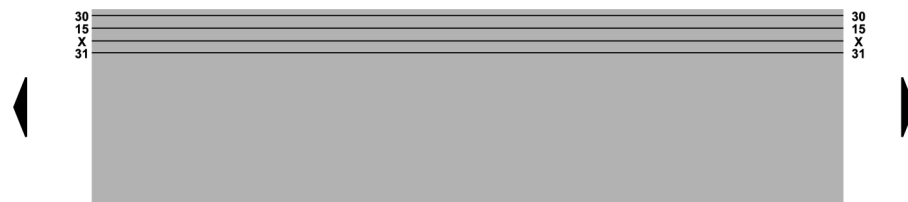
- E87 - Operating and display unit for Climatronic
- G56 - Dash panel temperature sensor, in Climatronic operating and display unit
- G92 - Temperature flap control motor potentiometer
- J255 - Climatronic control unit
- K - Dash panel insert
- L75 - Digital display illumination
- L76 - Button illumination
- R - Radio
- T5 - 5-pin connector, centre behind dash panel
- T8 - 8-pin connector, on radio
- T8a - 8-pin connector, behind relay plate
- T16 - 16-pin connector
- T24 - 24-pin connector, centre behind dash panel
- T28 - 28-pin connector, on dash panel insert
- T28a - 28-pin connector
- T28b - 28-pin connector
- TV13 - Speed signal junction box, above relay plate
- V42 - Temperature sensor blower, in Climatronic operating and display unit
- V68 - Temperature flap control motor

ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 ge = yellow
 or = orange
 rs = pink

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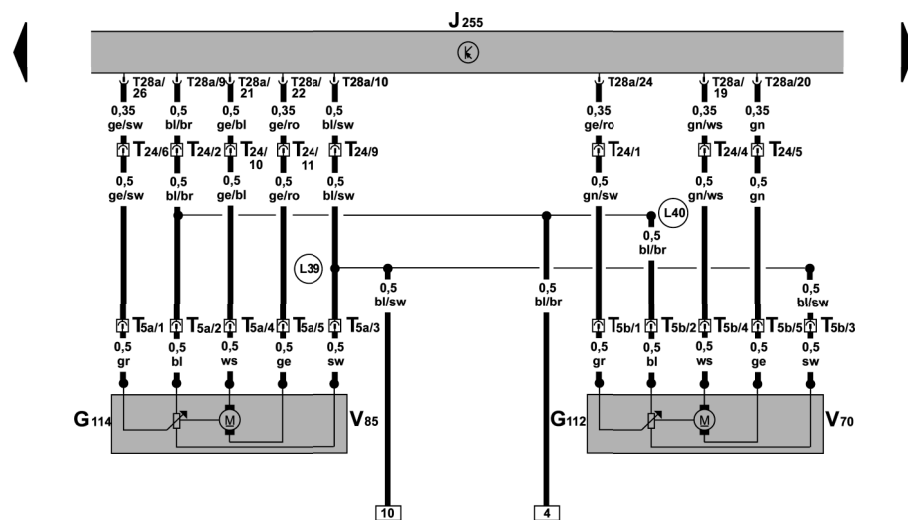
Current Flow Diagram

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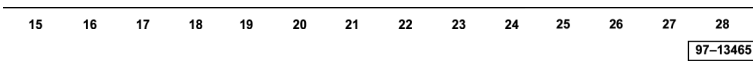


Footwell/defroster central flap control motor

- G112 - Central flap control motor potentiometer
- G114 - Control motor potentiometer for footwell/defrost flap
- J255 - Climatronic control unit
- T5a - 5-pin connector, in centre behind dash panel
- T5b - 5-pin connector, in centre behind dash panel
- T24 - 24-pin connector, in centre behind dash panel
- T28a - 28-pin connector
- V70 - Central flap control motor
- V85 - Footwell/defroster flap control motor
- L39 - Connection (air conditioner pressure switch) -1- in Climatronic wiring harness
- L40 - Connection (air conditioner pressure switch) -2-, in Climatronic wiring harness



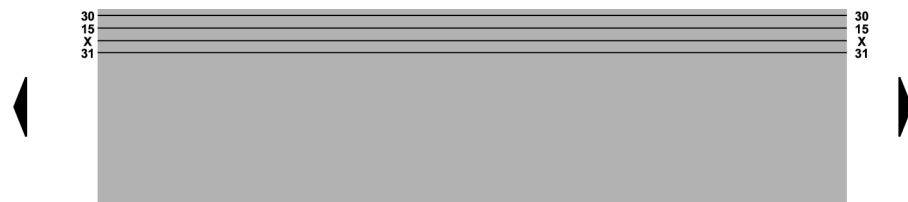
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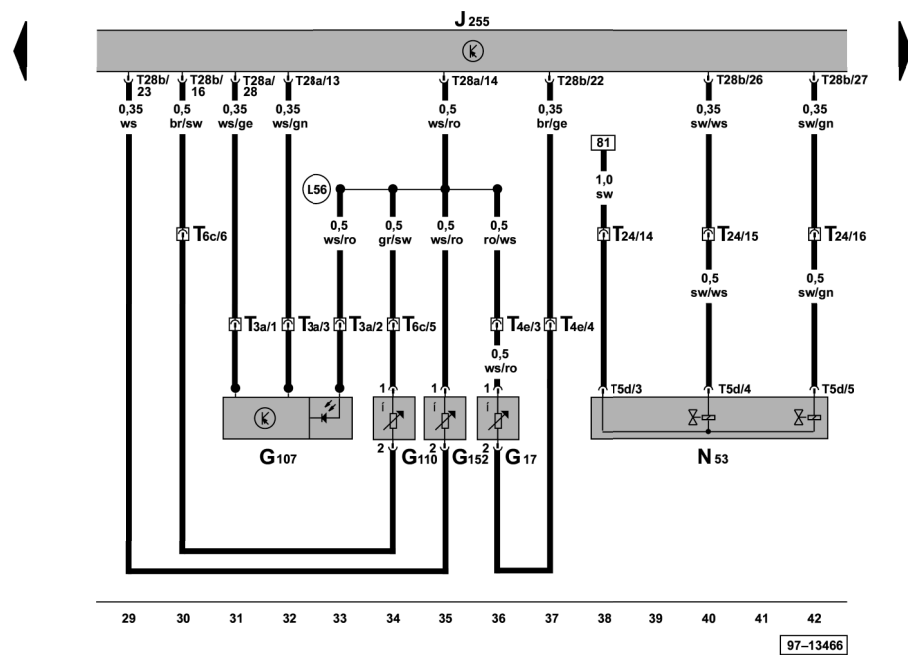
Current Flow Diagram

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Sunlight penetration photo sensor, coolant temperature sender, vent temperature sender

- G17 - Ambient temperature sensor, left on front bumper
- G107 - Sunlight penetration photosensor, left on dash panel
- G110 - Air conditioner system coolant temperature sender
- G152 - Front vent temperature sender, left on footwell vent console
- J255 - Climatronic control unit
- N53 - Vacuum valve strip, in centre behind dash panel
- T3a - 3-pin connector, left behind dash panel
- T4e - 4-pin connector, behind relay plate
- T5d - 5-pin connector
- T6c - 6-pin connector, behind relay plate
- T24 - 24-pin connector, in centre behind dash panel
- T28a - 28-pin connector
- T28b - 28-pin connector
- L56 - Connection (sender), in Climatronic wiring harness



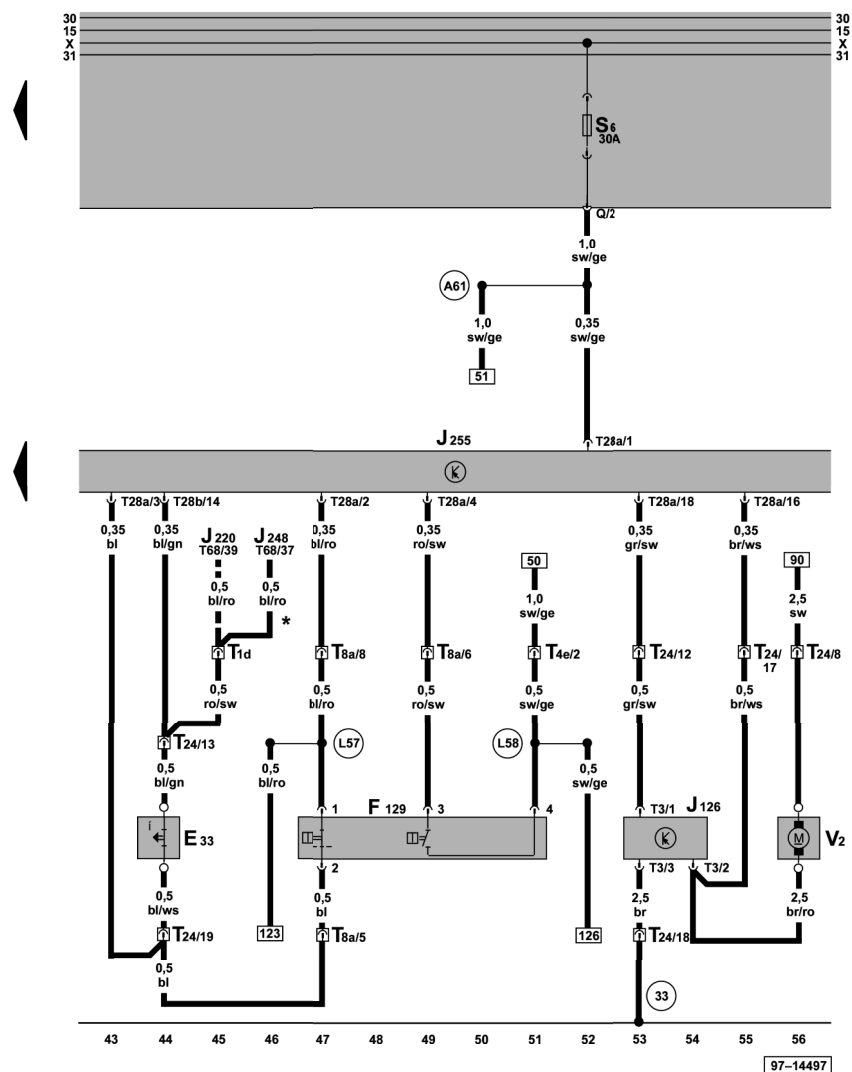
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Current Flow Diagram

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Evaporator temperature switch, air conditioner pressure switch, front fresh air blower

- E33 - Temperature switch for evaporator
- F129 - Air conditioner pressure switch
- J126 - Fresh air blower control unit, right behind dash panel
- J220 - Motronic control unit
- J248 - Diesel direct injection system control unit
- J255 - Climatronic control unit
- T1d - Single connector, behind relay plate, (conditioner 'ready')
- T3 - 3-pin connector
- T4e - 4-pin connector, behind relay plate
- T8a - 8-pin connector, behind relay plate
- T24 - 24-pin connector, centre behind dash panel
- T28a - 28-pin connector
- T28b - 28-pin connector
- T68 - 68-pin connector, on engine control unit
- V2 - Fresh air blower

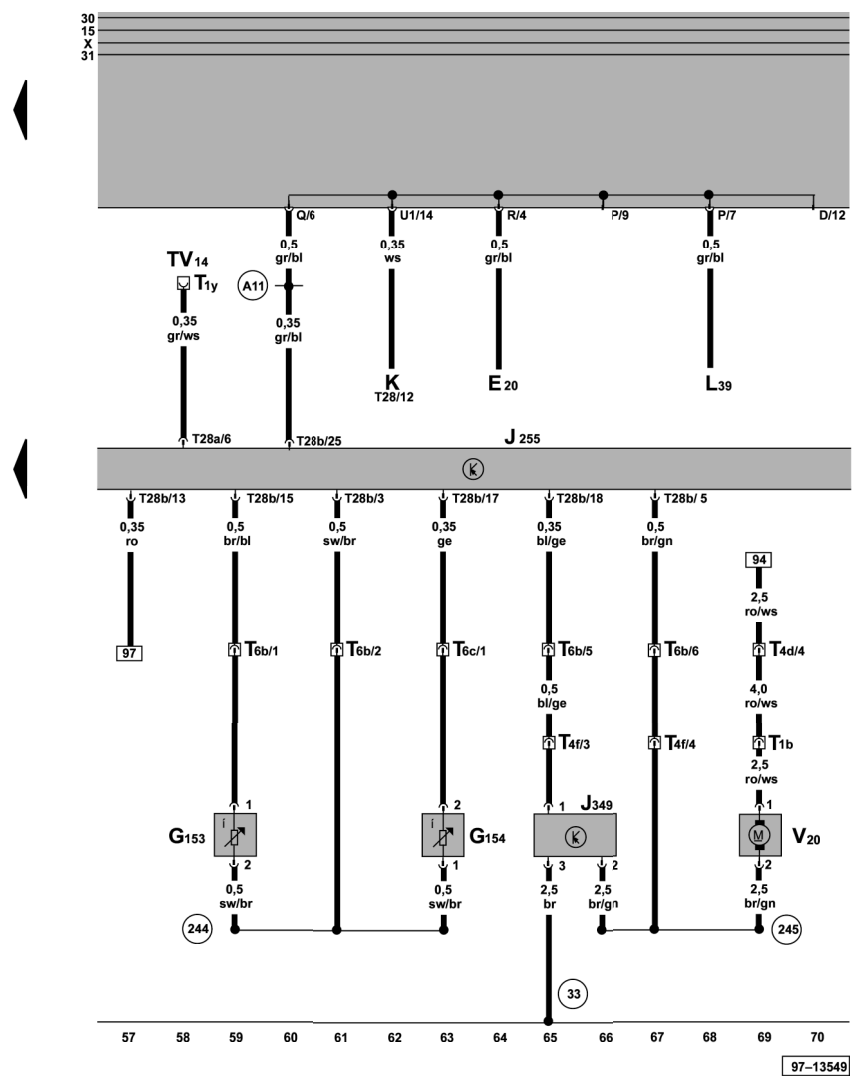
- 33 - Earth point, behind dash panel, right
- A61 - Positive connection (X), in instrument panel wiring harness
- L57 - Connection (air conditioner pressure switch) -1-, in Climatronic - coolant fan wiring harness
- L58 - Connection (air conditioner pressure switch) -2-, in Climatronic - coolant fan wiring harness
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- * - For engine code ACV only

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Current Flow Diagram

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Self-diagnosis connection, rear evaporator temperature sender, rear heat exchanger temperature sender, rear evaporator blower

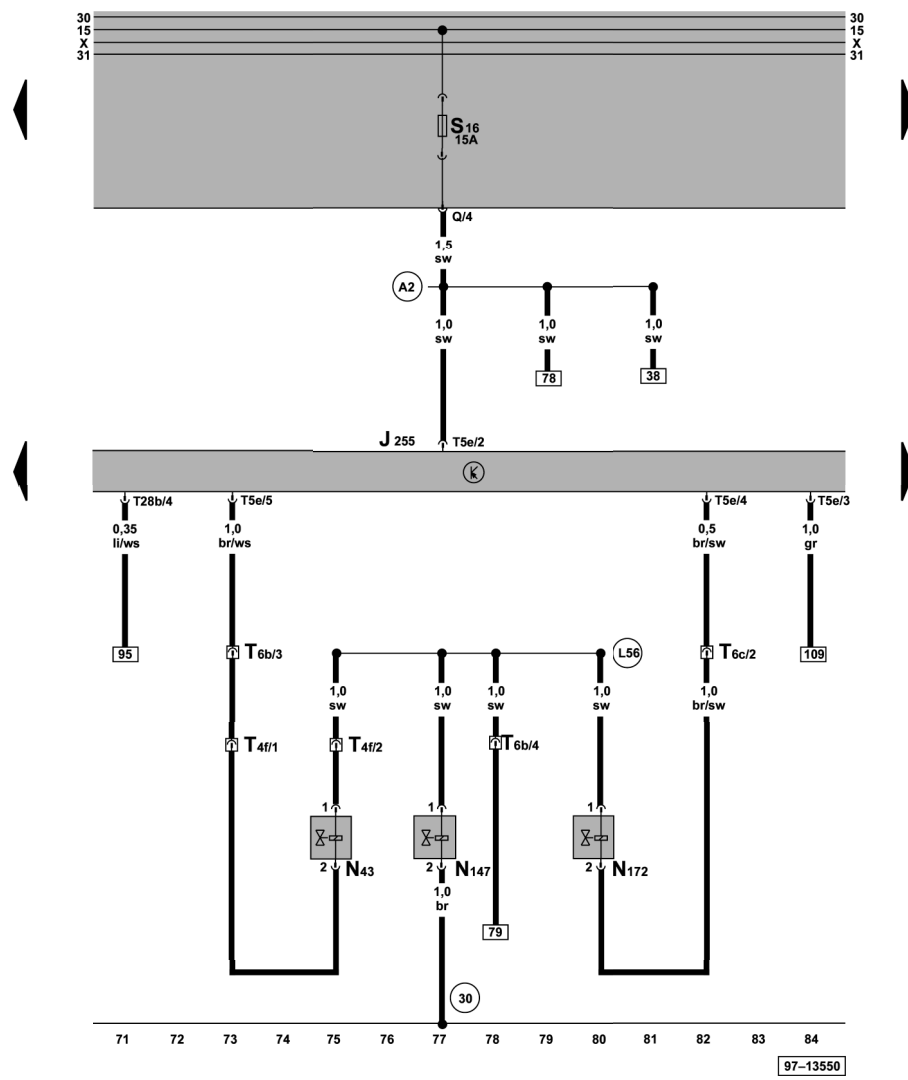
- E20 - Switches and instruments - lighting control
- G153 - Rear evaporator temperature sender
- G154 - Rear heat exchanger temperature sender
- J255 - Climatronic control unit
- J349 - Evaporator blower control unit
- K - Dash panel insert
- L39 - Heated rear window switch bulb
- T1b - Single connector, behind right lower D-pillar trim
- T1y - Single connector
- T4d - 4-pin connector, behind relay plate
- T4f - 4-pin connector, behind right lower D-pillar trim
- T6b - 6-pin connector, behind relay plate
- T6c - 6-pin connector, behind relay plate
- T28 - 28-pin connector
- T28a - 28-pin connector
- T28b - 28-pin connector
- TV14 - Self-diagnosis junction box, above relay plate
- V20 - Rear evaporator blower
- 33 - Earth point, behind dash panel, right
- 244 - Earth connection (sender earth), in Climatronic wiring harness
- 245 - Earth connection, in 2nd evaporator fan wiring harness
- A11 - Positive (+) connection (58b), in wiring harness for instruments

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Current Flow Diagram

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Refrigerant circulation solenoid valve, coolant cut-off two-way valve, additional heat exchanger valve

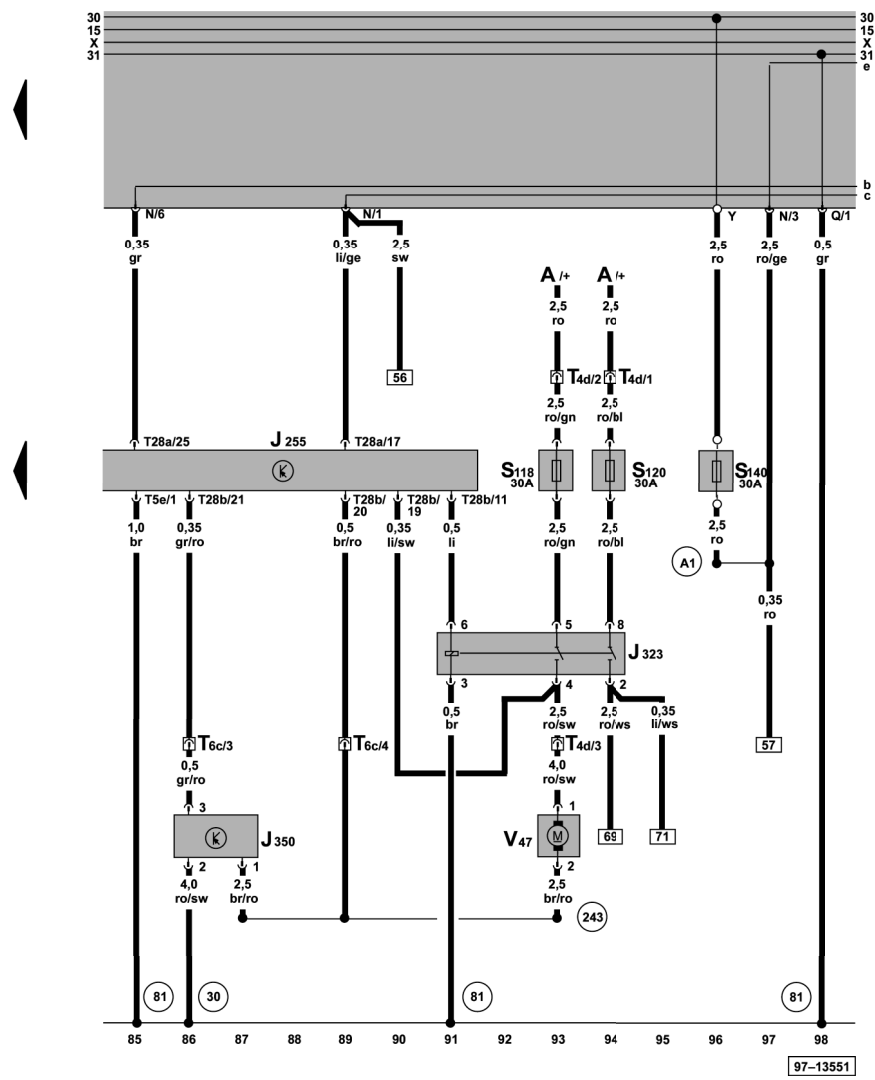
- J255 - Climatronic control unit
- N43 - Refrigerant circulation solenoid valve, behind right lower D-pillar trim
- N147 - Coolant cut-off valve two-way valve, left on bulkhead,
- N172 - Additional heat exchanger valve, left on bulkhead
- T4f - 4-pin connector, behind right lower D-pillar trim
- T5e - 5-pin connector
- T6b - 6-pin connector, behind relay plate
- T6c - 6-pin connector, behind relay plate
- T28b - 28-pin connector
- 30 - Earth point -1-, next to relay plate
- A2 - Positive (+) connection (15), in dash panel wiring harness
- L56 - Connection (sender), in Climatronic wiring harness

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Current Flow Diagram

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Rear blower fuse, rear blower relay, rear warm air blower

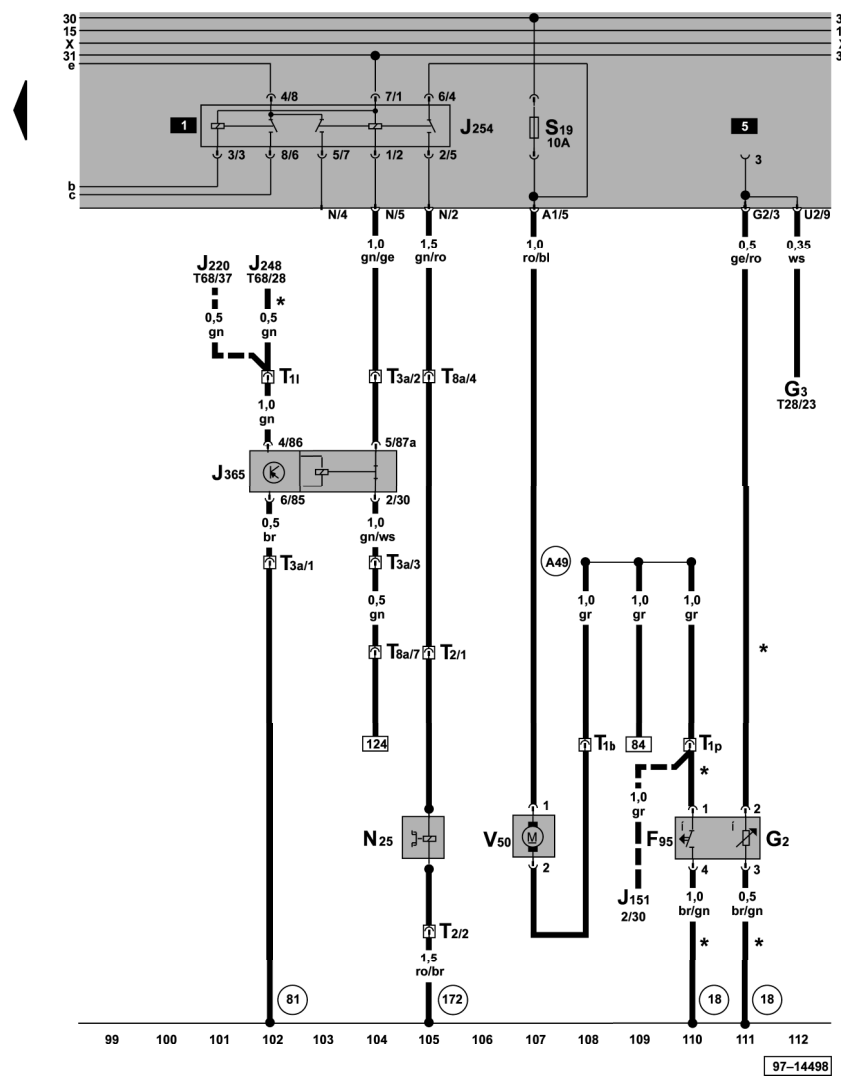
- A - Battery
- J255 - Climatronic control unit
- J323 - Blower relay, control number (114), in centre behind dash panel
- J350 - Warm air blower control unit
- S118 - Hot air blower fuse, under relay plate
- S120 - Evaporator blower fuse, under relay plate
- S140 - Front Climatronic fuse, under relay plate
- T4d - 4-pin connector, behind relay plate
- T5e - 5-pin connector
- T6c - 6-pin connector, behind relay plate
- T28a - 28-pin connector
- T28b - 28-pin connector
- V47 - Rear warm air blower
- 30 - Earth point -1-, next to relay plate
- 81 - Earth connection -1-, in dash panel wiring-
- 243 - Earth connection -1-, in Climatronic wiring harness
- A1 - Positive (+) connection (30a), in dash panel wiring harness

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Current Flow Diagram

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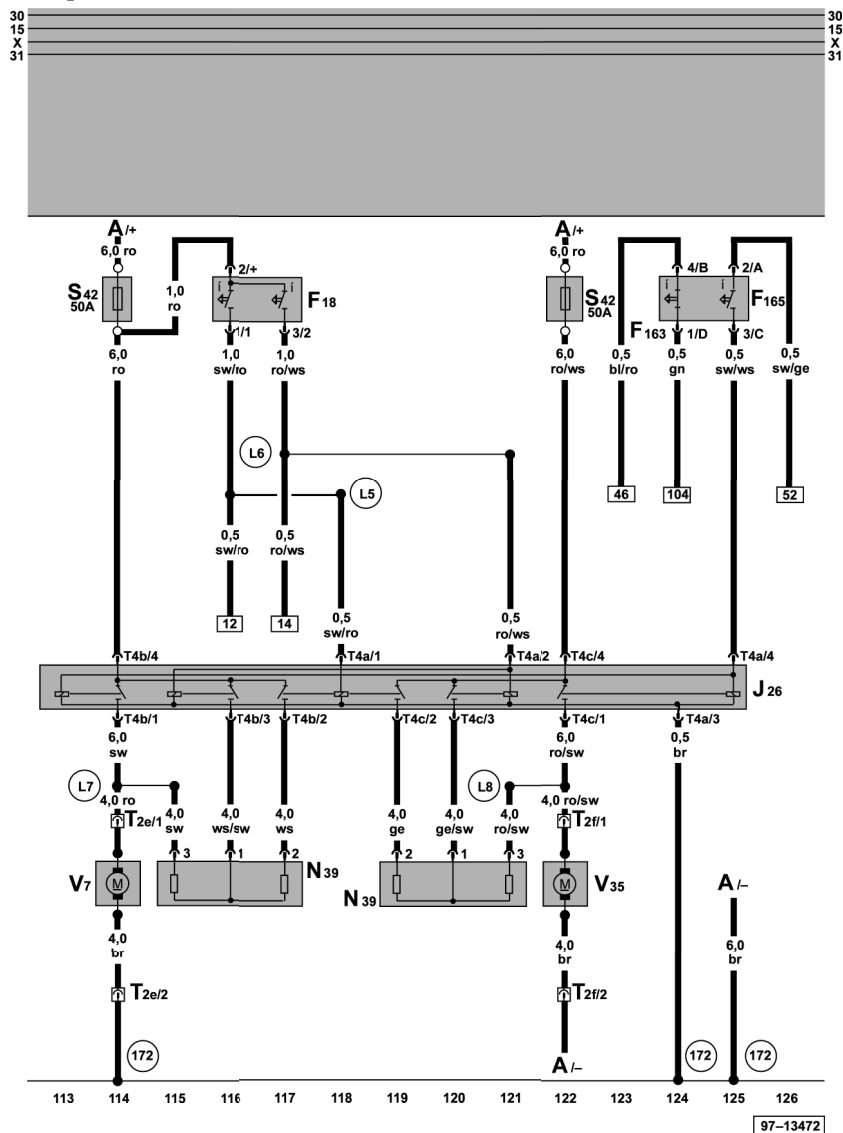
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- Climatronic relay, magnetic coupling, coolant circuit, air conditioning system cut-off relay**
- F95 - Thermo-switch for coolant circulation run-on
 - G2 - Coolant temperature sender
 - G3 - Coolant temperature gauge
 - J151 - Continued coolant circulation relay
 - J220 - Motronic control unit
 - J248 - Diesel direct injection system control unit
 - J254 - Climatronic relay, control number (140), with 1/2 second switch delay
 - J365 - Air conditioning system switch-off relay, control number (147), above relay plate
 - N25 - Air conditioning system magnetic coupling
 - T1b - Single connector, behind relay plate
 - T11 - Single connector, behind relay plate
 - T1p - Single connector, behind relay plate
 - T2 - 2-pin connector, front right in engine compartment
 - T3a - 3-pin connector, behind relay plate
 - T8a - 8-pin connector, behind relay plate
 - T28 - 28-pin connector, on dash panel insert
 - T68 - 68-pin connector
 - V50 - Coolant circulation pump
 - 18 - Earth point, on engine block
 - 81 - Earth connection -1-, in dash panel wiring harness
 - 172 - Earth connection, in engine compartment Climatronic wiring harness
 - A49 - Connection -1-, in dash panel wiring harness
 -
 - * - For engine code ACV only

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Current Flow Diagram

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Radiator fan

- A - Battery
- F18 - Radiator fan thermo-switch
- F163 - Air conditioner shut-off thermo-switch, front in engine compartment
- F165 - Radiator fan thermo-switch, third speed, front in engine compartment
- J26 - Radiator fan relay, front left in engine compartment
- N39 - Radiator fan series resistor, left behind headlight
- S42 - Radiator fan single fuse, front left in engine compartment
- T2e - 2-pin connector, on 350 W fan
- T2f - 2-pin connector, on 350 W fan
- T4a - 4-pin connector
- T4b - 4-pin connector
- T4c - 4-pin connector
- V7 - Radiator fan left (350 W)
- V35 - Radiator fan right (350 W)
- 172 - Earth connection -1-, in engine compartment Climatronic wiring harness
- L5 - Connection -1-, in evaporator housing unit wiring harness
- L6 - Connection -2-, in evaporator housing unit wiring harness
- L7 - Connection -3-, in evaporator housing unit wiring harness
- L8 - Connection -4-, in evaporator housing unit wiring harness

ws = white
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