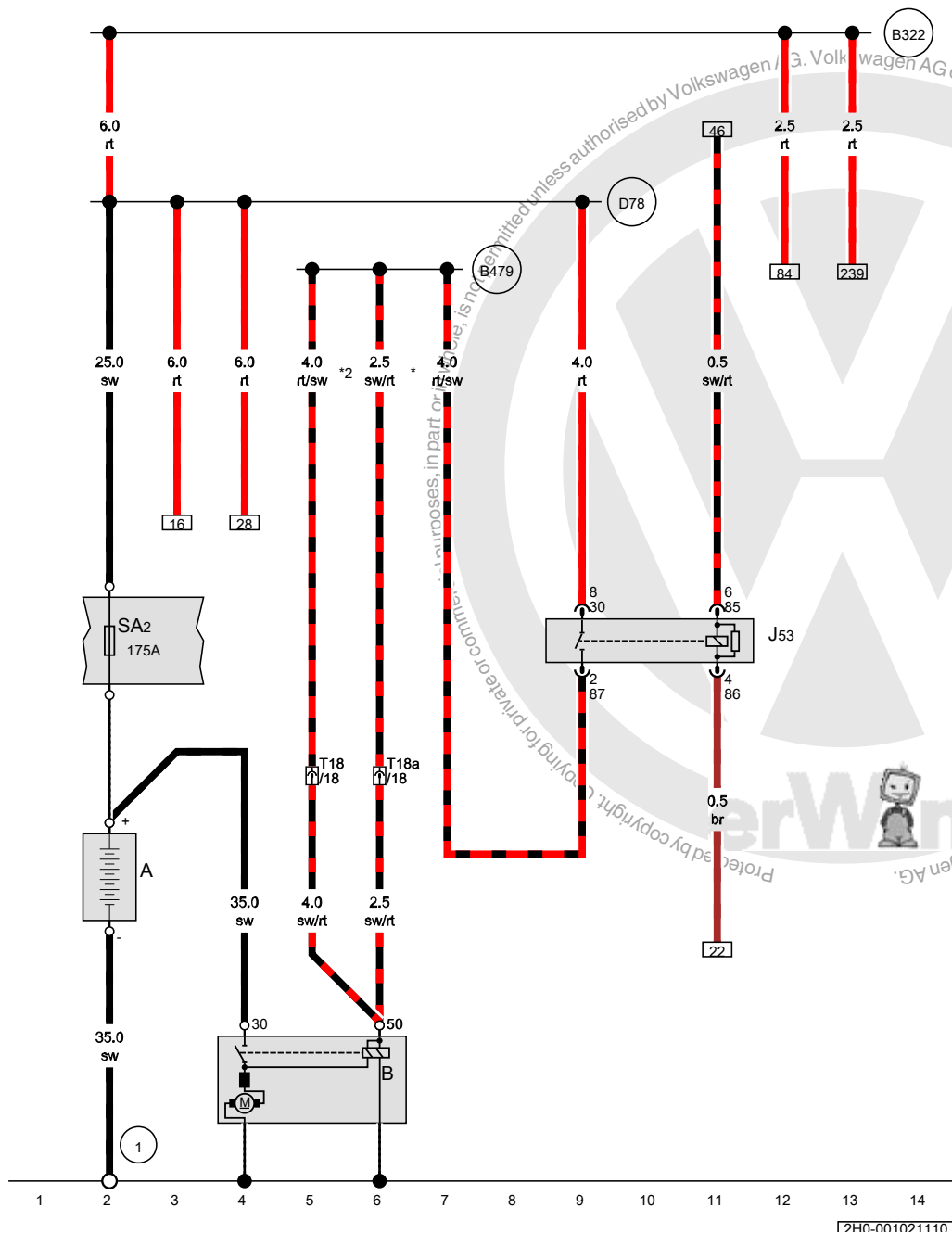


## Basic equipment

From December 2009



Battery, Starter, Starter motor relay, Fuse 2 in fuse holder A



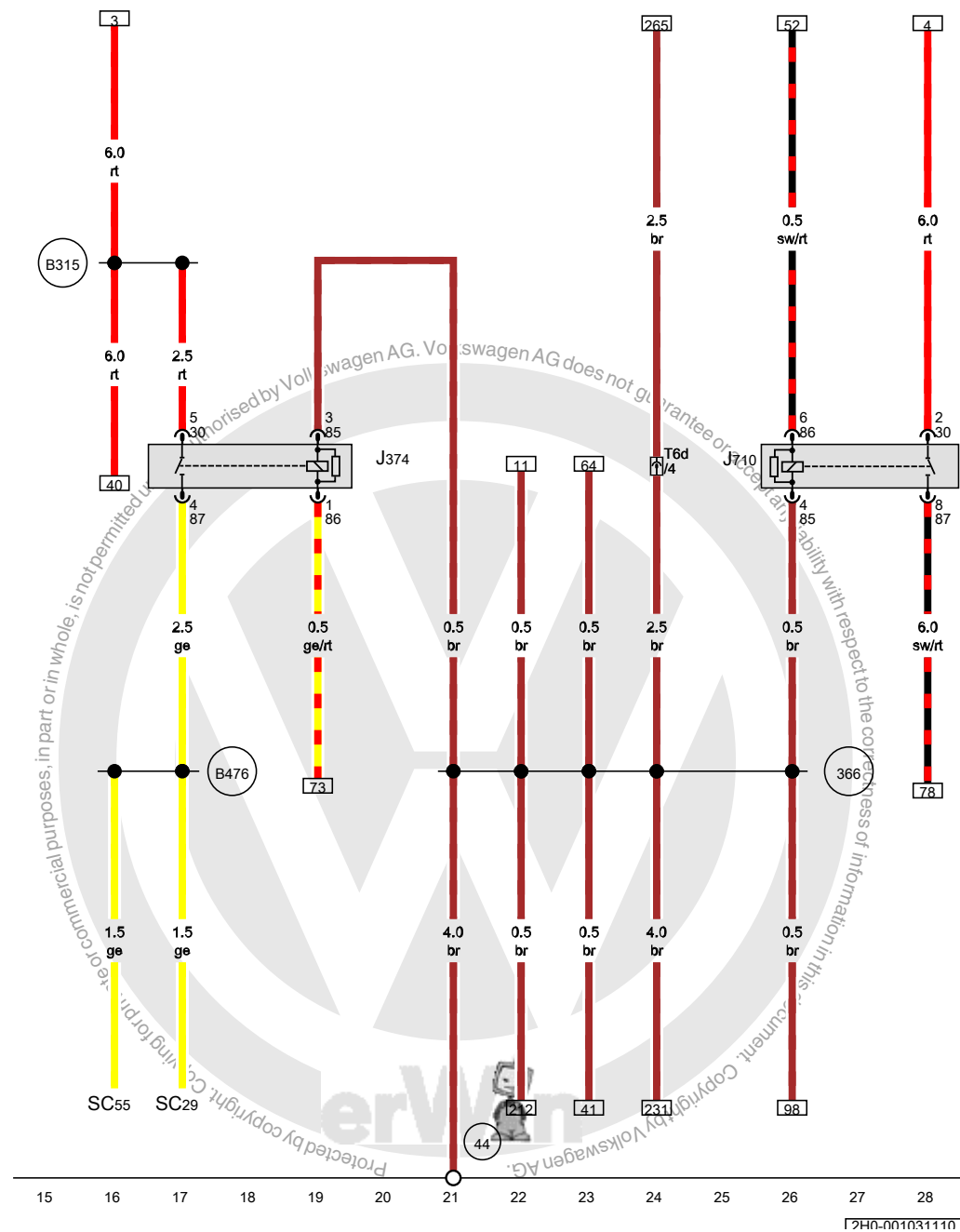
- A Battery
- B Starter
- J53 Starter motor relay
- SA2 Fuse 2 in fuse holder A
- T18 18-pin connector, near engine control unit
- T18a 18-pin connector, near engine control unit
- 1 Earth strap, battery - body
- B322 Positive connection 8 (30a) in main wiring harness
- B479 Connection 15, in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness
- \* Only models with diesel engines
- \*2 Only models with petrol engine

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

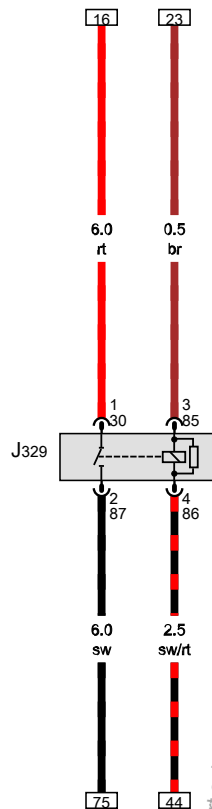
Terminal 58b relief relay, Voltage supply relay 2

J374 Terminal 58b relief relay  
J710 Voltage supply relay 2  
SC29 Fuse 29 on fuse holder C  
SC55 Fuse 55 on fuse holder C  
T6d 6-pin connector

- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- B315 Positive connection 1 (30a) in main wiring harness
- B476 Connection 12, in main wiring harness



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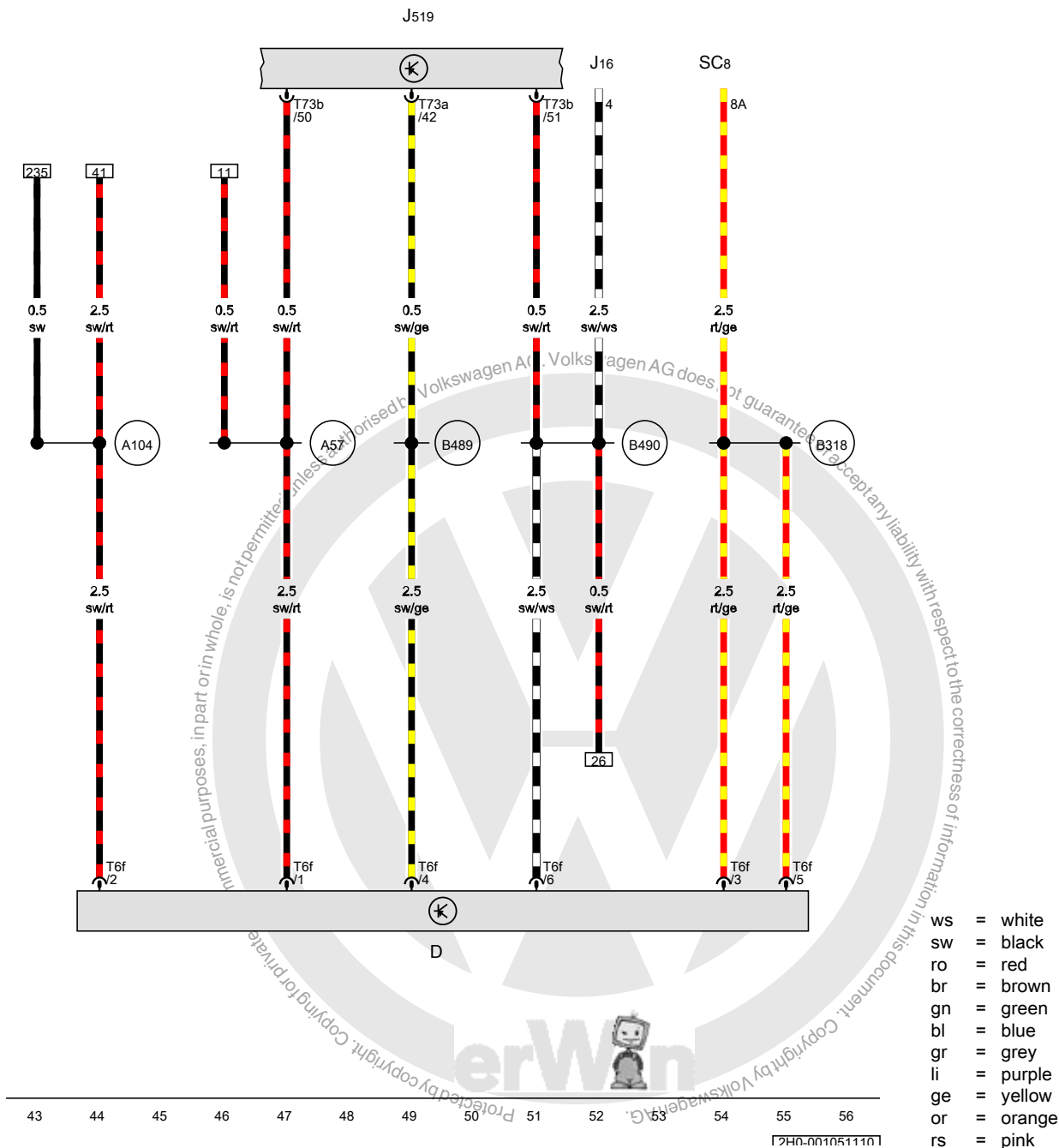
\* see applicable current flow diagram for engine  
\*2 Only models with diesel engines  
\*3 Only models with petrol engine

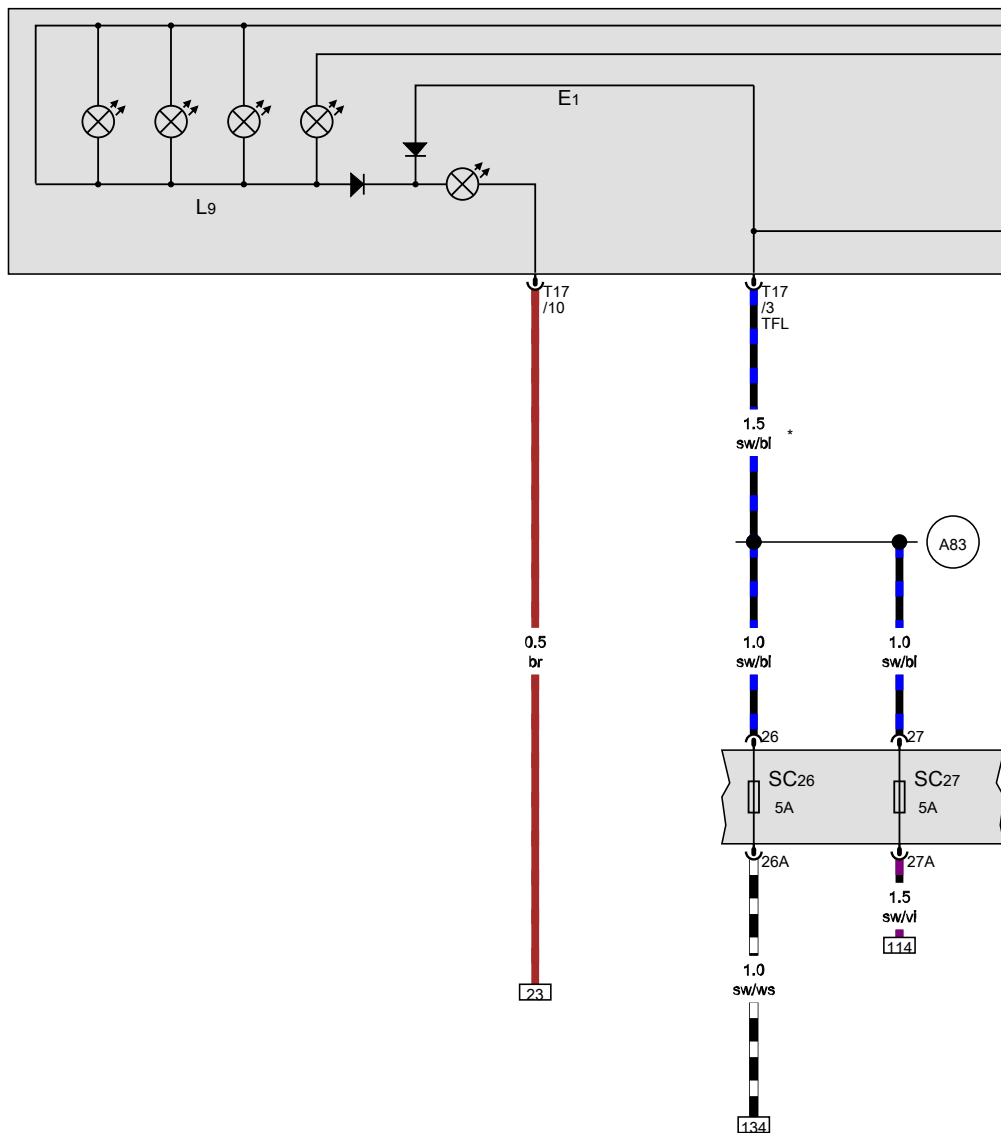


Ignition/starter switch, Onboard supply control unit

- D Ignition/starter switch
- J16 Current supply relay
- J519 Onboard supply control unit
- SC8 Fuse 8 on fuse holder C
- T6f 6-pin connector
- T73a 73-pin connector
- T73b 73-pin connector

- (A57) Positive connection 3 (30), in dash panel wiring harness
- (A104) Positive connection 2 (15), in dash panel wiring harness
- (B318) Positive connection 4 (30a) in main wiring harness
- (B489) Connection 25, in main wiring harness
- (B490) Connection 26, in main wiring harness

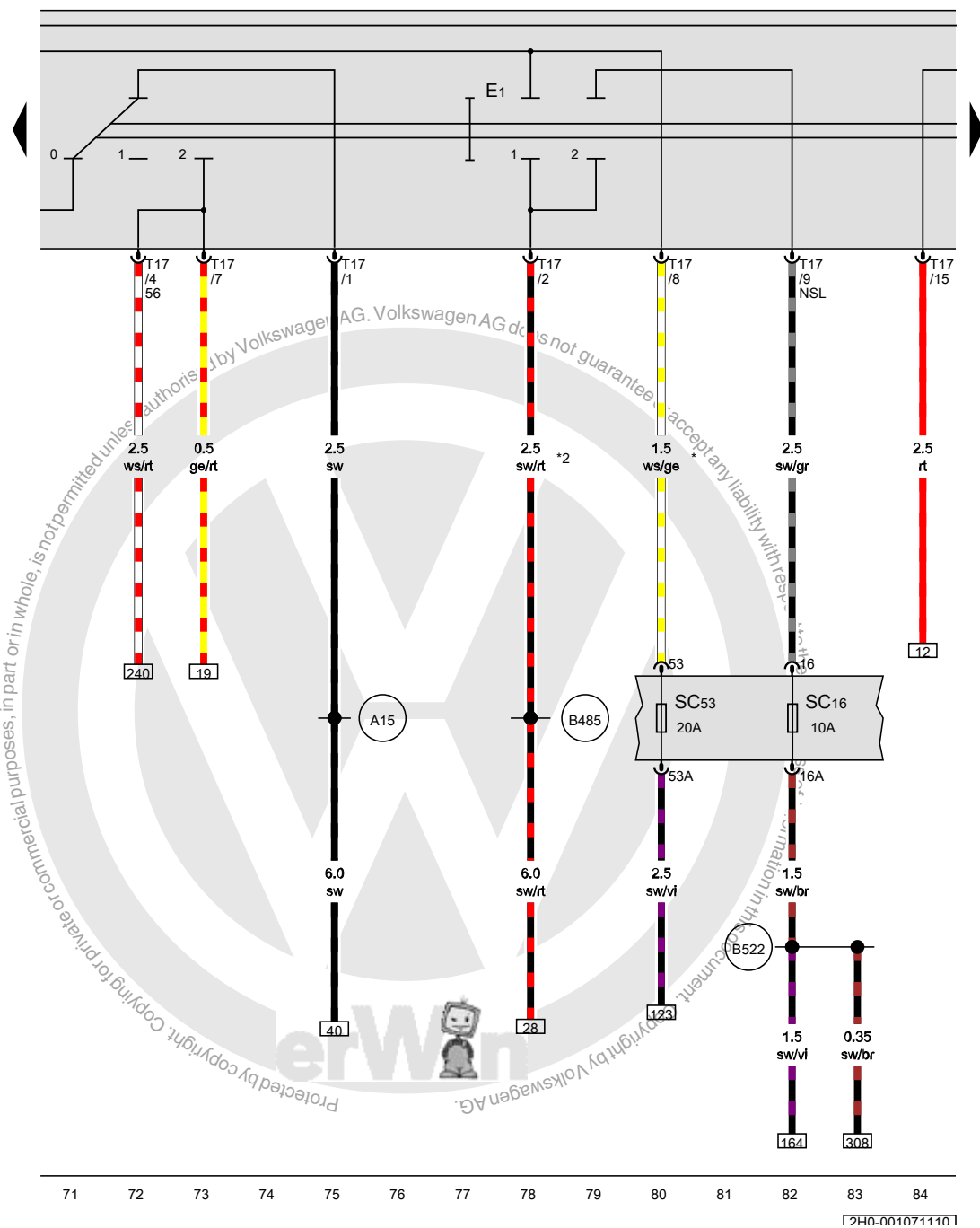




Light switch, Light switch illumination bulb, Fuse 26 on fuse holder C, Fuse 27 on fuse holder C

- E1 Light switch
- L9 Light switch illumination bulb
- SC26 Fuse 26 on fuse holder C
- SC27 Fuse 27 on fuse holder C
- T17 17-pin connector
- A83 Connection (daytime running lights), in dash panel wiring harness
- \* Only models with daytime running lights

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Light switch, Fuse 16 on fuse holder C, Fuse 53 on fuse holder C

E1 Light switch

SC16 Fuse 16 on fuse holder C

SC53 Fuse 53 on fuse holder C

T17 17-pin connector

A15 Positive connection (15), in instrument wiring harness

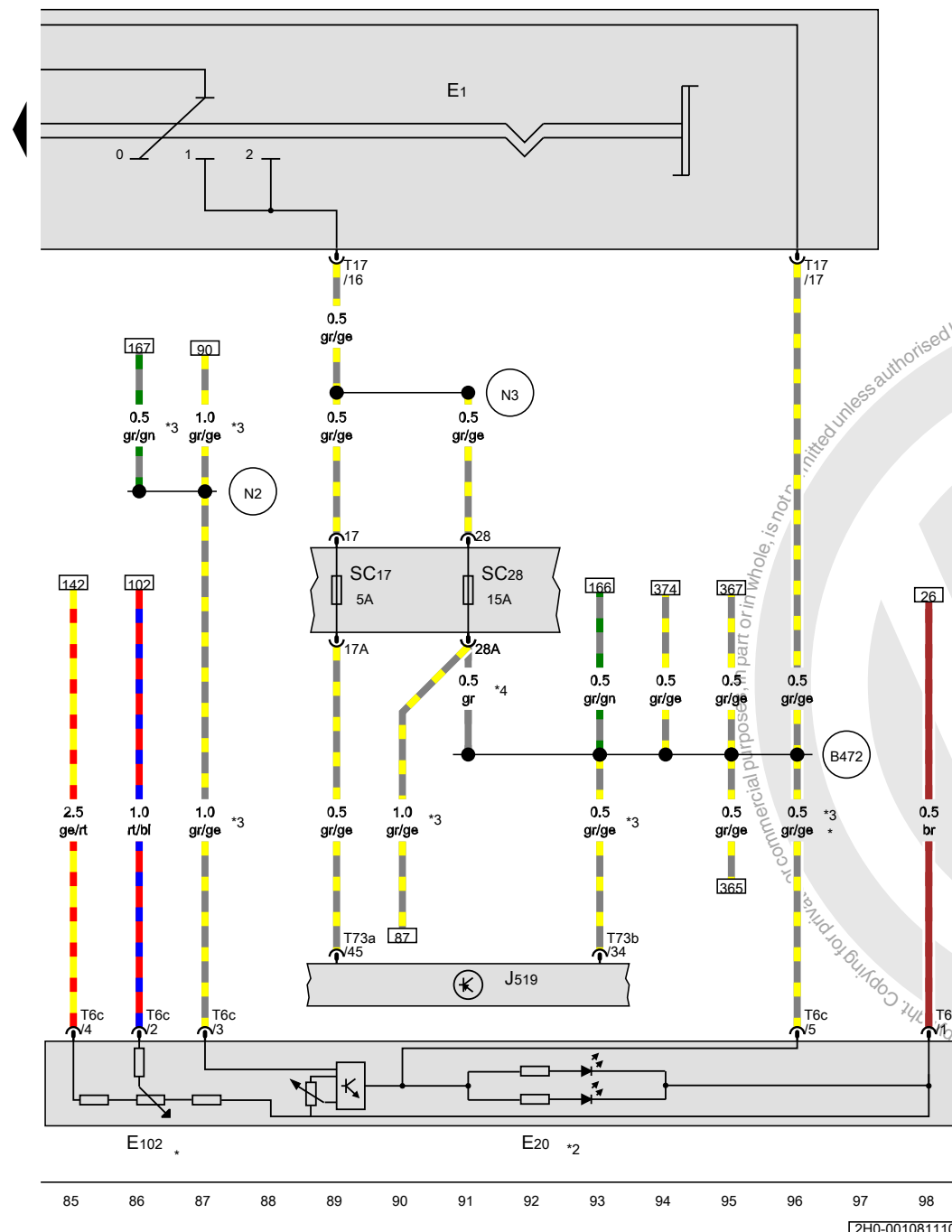
B485 Connection 21, in main wiring harness

B522 Connection (FL), in main wiring harness

\* Only models with no fog lights but with multifunction display

\*2 Only models with fog lights

ws = white  
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Light switch, Switch and instrument illumination regulator, Headlight range control regulator, Onboard supply control unit, Fuse 28 on fuse holder C

- E1 Light switch
- E20 Switch and instrument illumination regulator
- E102 Headlight range control regulator
- J519 Onboard supply control unit
- SC17 Fuse 17 on fuse holder C
- SC28 Fuse 28 on fuse holder C
- T6c 6-pin connector
- T17 17-pin connector
- T73a 73-pin connector
- T73b 73-pin connector

B472 Connection 8, in main wiring harness

N2 Connection 1, in headlight range control wiring harness

N3 Connection 2, in headlight range control wiring harness

\* Only models with headlight range control

\*2 Only models with dimmable instrument illumination

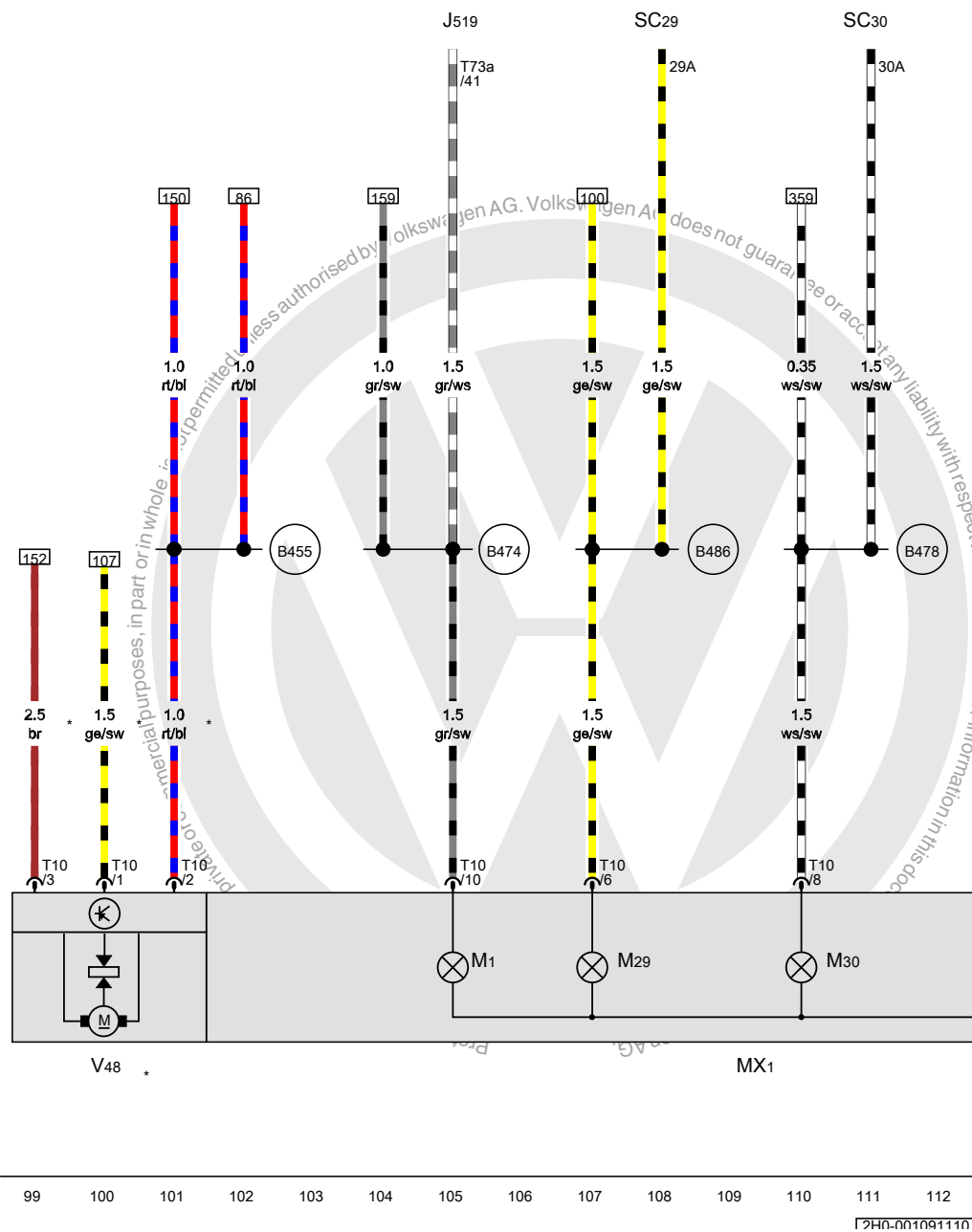
\*3 Only models with Highline equipment

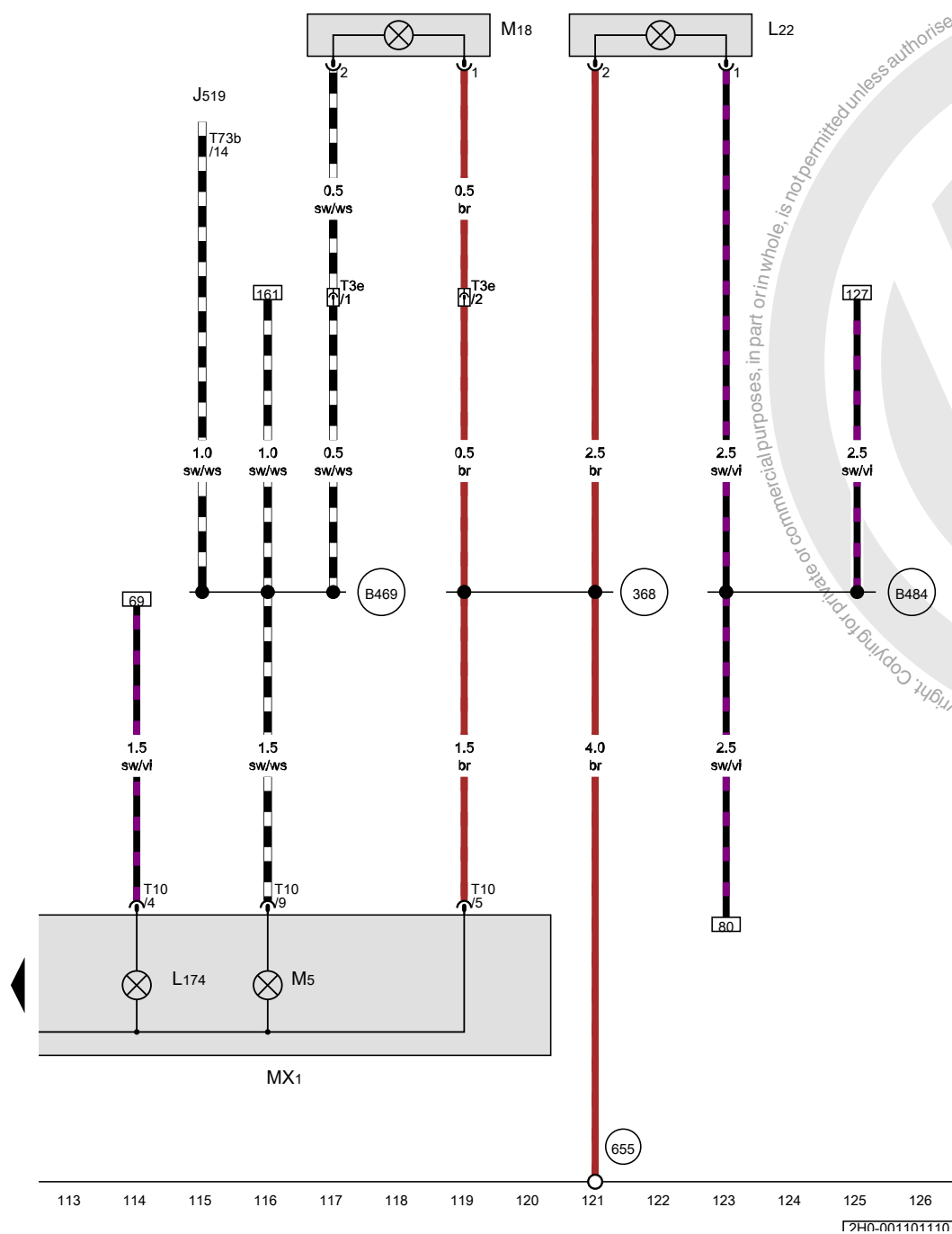
\*4 Only models with no dimmable instrument illumination



Front left headlight

- J519 Onboard supply control unit
- M1 Left side light bulb
- MX1 Front left headlight
- M29 Left headlight dipped beam bulb
- M30 Left headlight main beam bulb
- SC29 Fuse 29 on fuse holder C
- SC30 Fuse 30 on fuse holder C
- T10 10-pin connector
- T73a 73-pin connector
- V48 Left headlight range control motor
- B455 Connection (HRC), in main wiring harness
- B474 Connection 10, in main wiring harness
- B478 Connection 14, in main wiring harness
- B486 Connection 22, in main wiring harness
- \* Only models with headlight range control

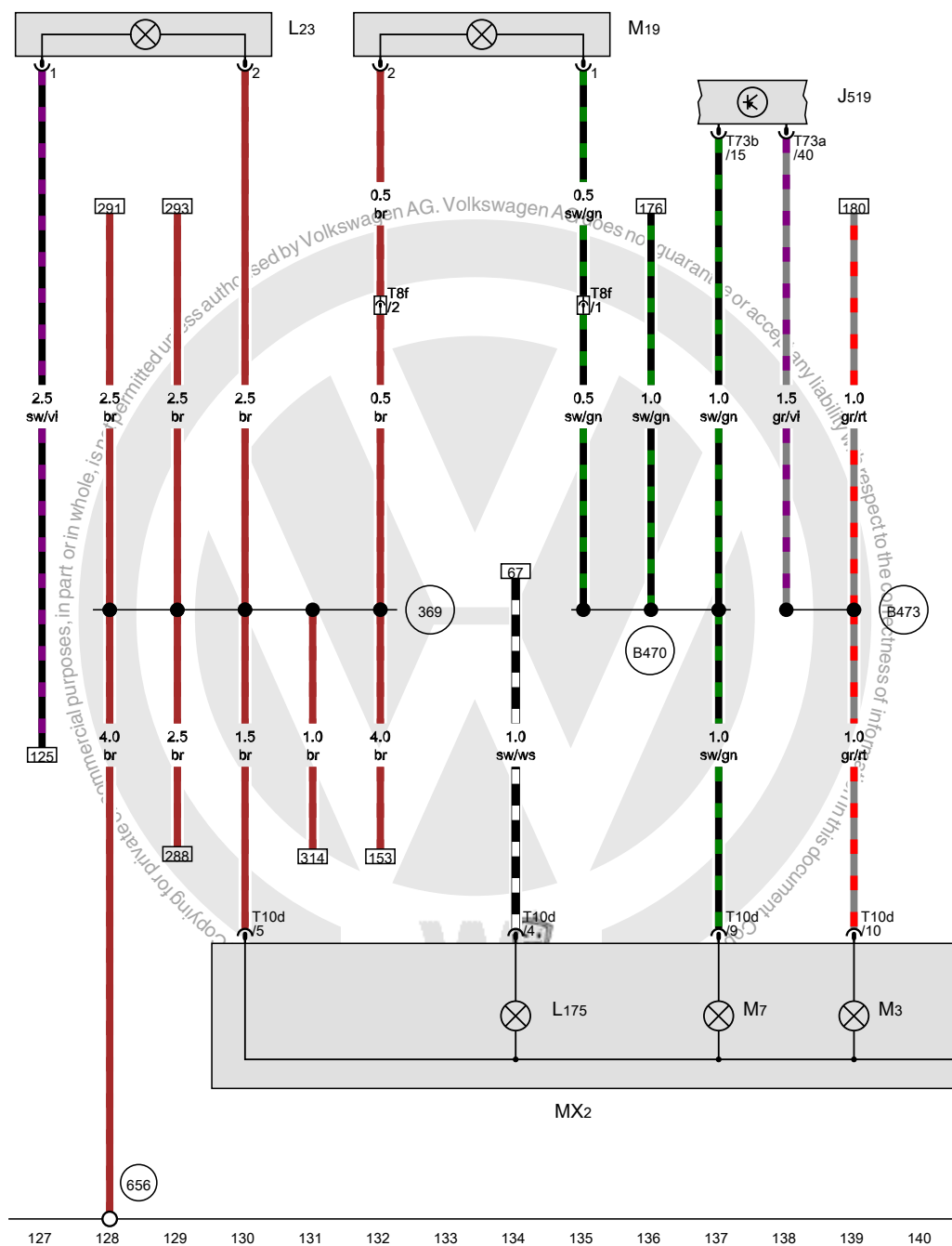




# Left fog light bulb, Front left headlight, Left turn signal repeater bulb

- J519 Onboard supply control unit
- L22 Left fog light bulb
- L174 Left daytime running light bulb
- MX1 Front left headlight
- M5 Front left turn signal bulb
- M18 Left turn signal repeater bulb
- T3e 3-pin connector, in rear left of engine compartment
- T10 10-pin connector
- T73b 73-pin connector

- 368 Earth connection 3, in main wiring harness
- 655 Earth point, on left headlight, on left on bulkhead
- B469 Connection 5, in main wiring harness
- B484 Connection 20, in main wiring harness



Right fog light bulb, Front right headlight, Right turn signal repeater bulb

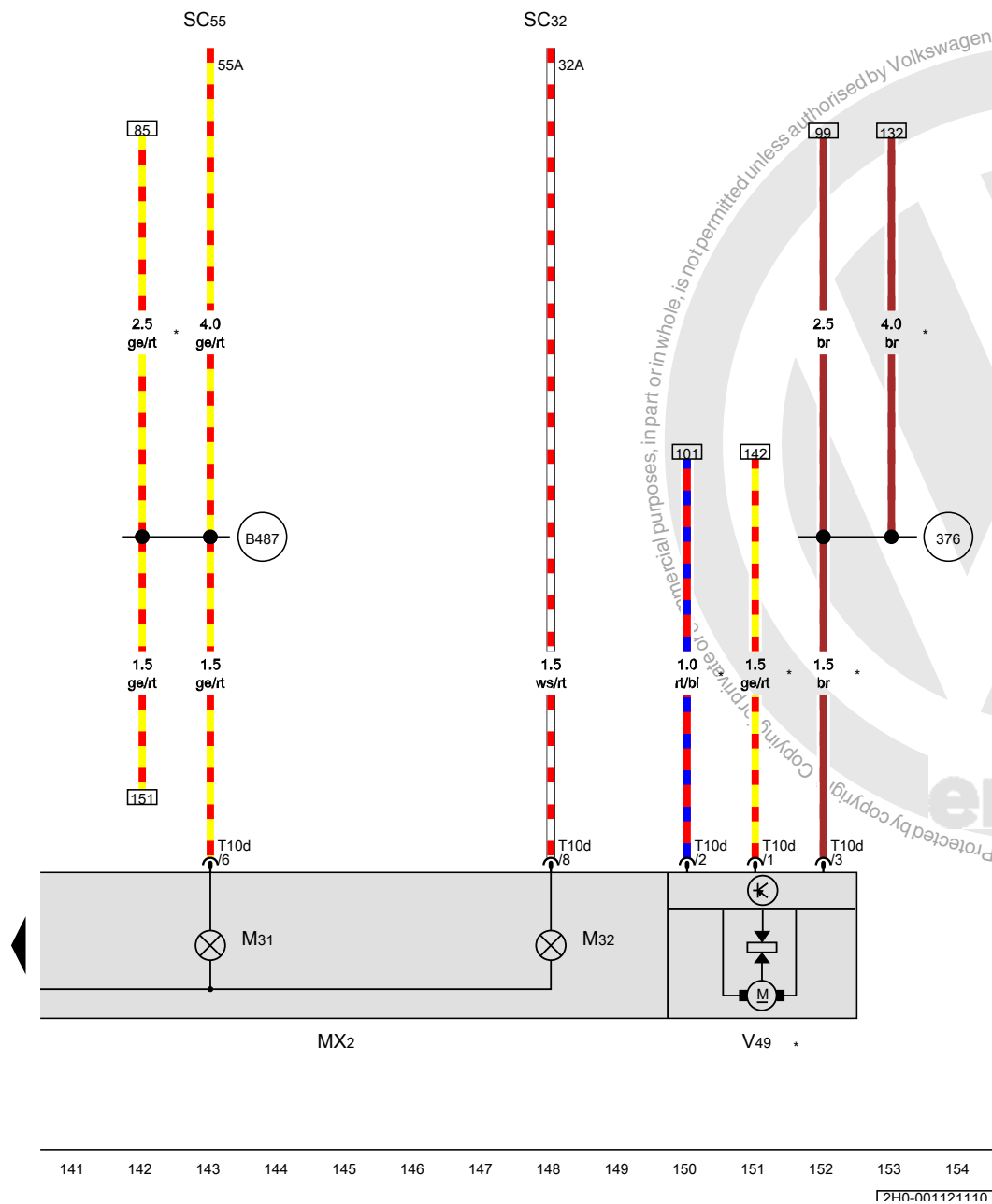
- J519 Onboard supply control unit
- L23 Right fog light bulb
- L175 Right daytime running light bulb
- MX2 Front right headlight
- M3 Right side light bulb
- M7 Front right turn signal bulb
- M19 Right turn signal repeater bulb
- T8f 8-pin connector, in rear right of engine compartment
- T10d 10-pin connector
- T73a 73-pin connector
- T73b 73-pin connector

- (369) Earth connection 4, in main wiring harness
- (656) Earth point, on right headlight, on right on bulkhead
- (B470) Connection 6, in main wiring harness
- (B473) Connection 9, in main wiring harness

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Front right headlight, Fuse 32 on fuse holder C, Fuse 55 on fuse holder C

- MX2 Front right headlight
- M31 Right headlight dipped beam bulb
- M32 Right headlight main beam bulb
- SC32 Fuse 32 on fuse holder C
- SC55 Fuse 55 on fuse holder C
- T10d 10-pin connector
- V49 Right headlight range control motor
- 376 Earth connection 11, in main wiring harness
- B487 Connection 23, in main wiring harness
- \* Only models with headlight range control



Left tail light, Left number plate light

- L46 Rear left fog light bulb
- MX3 Left tail light
- M4 Left tail light bulb
- M6 Rear left turn signal bulb
- M9 Left brake light bulb
- T5i 5-pin connector
- T14 14-pin connector, behind rear bumper on left
- T18a 18-pin connector, near engine control unit
- T42 42-pin connector, near handbrake lever
- X4 Left number plate light

- 28 Earth point, on bulkhead
- 68 Earth point, on left of rear cross member
- 86 Earth connection 1, in rear wiring harness
- W1 Positive connection 1 (54), in rear wiring harness
- W70 Positive connection 2 (58), in number plate wiring harness

\* see applicable current flow diagram for preparation for trailer coupling

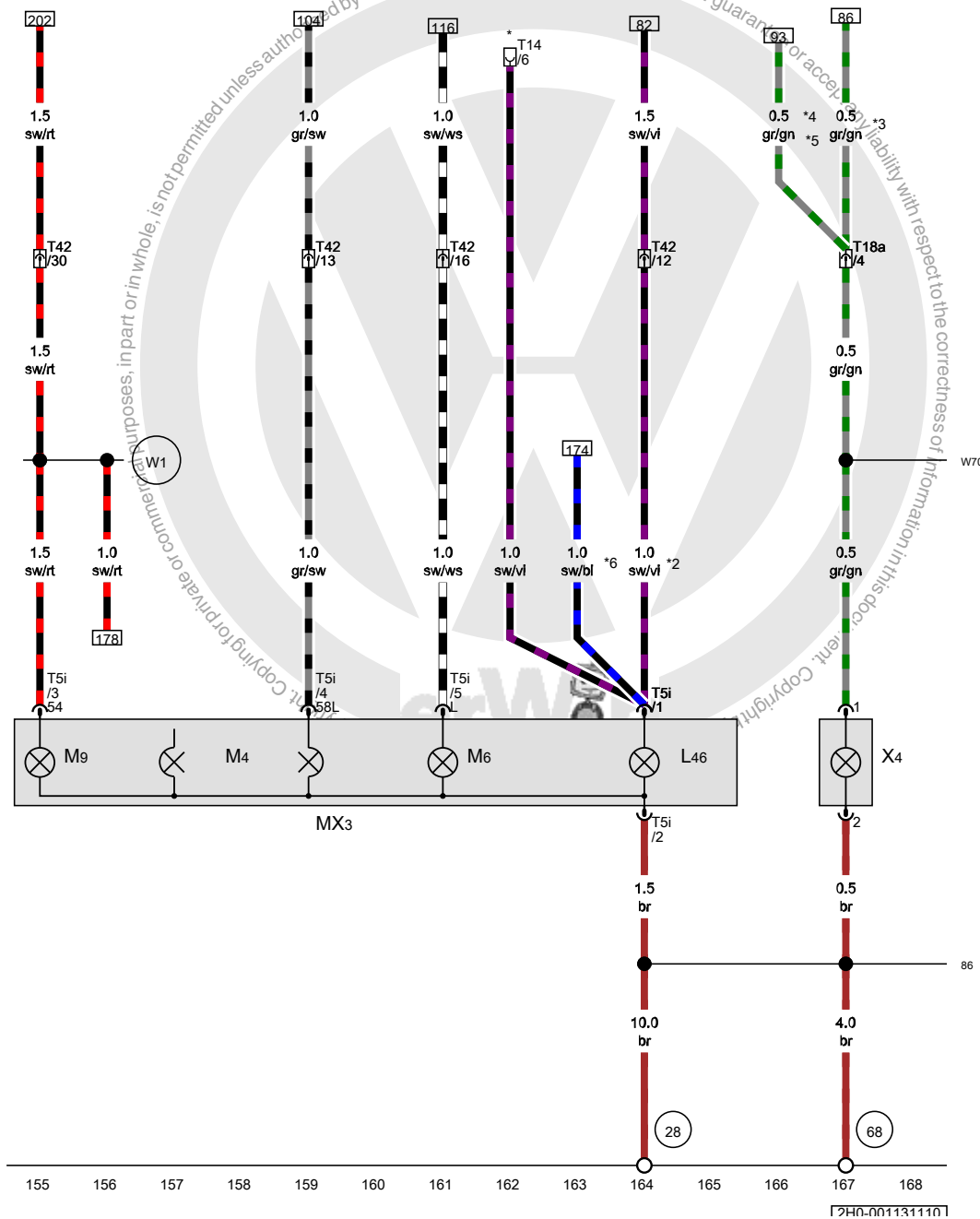
\*2 Only models with no towing bracket

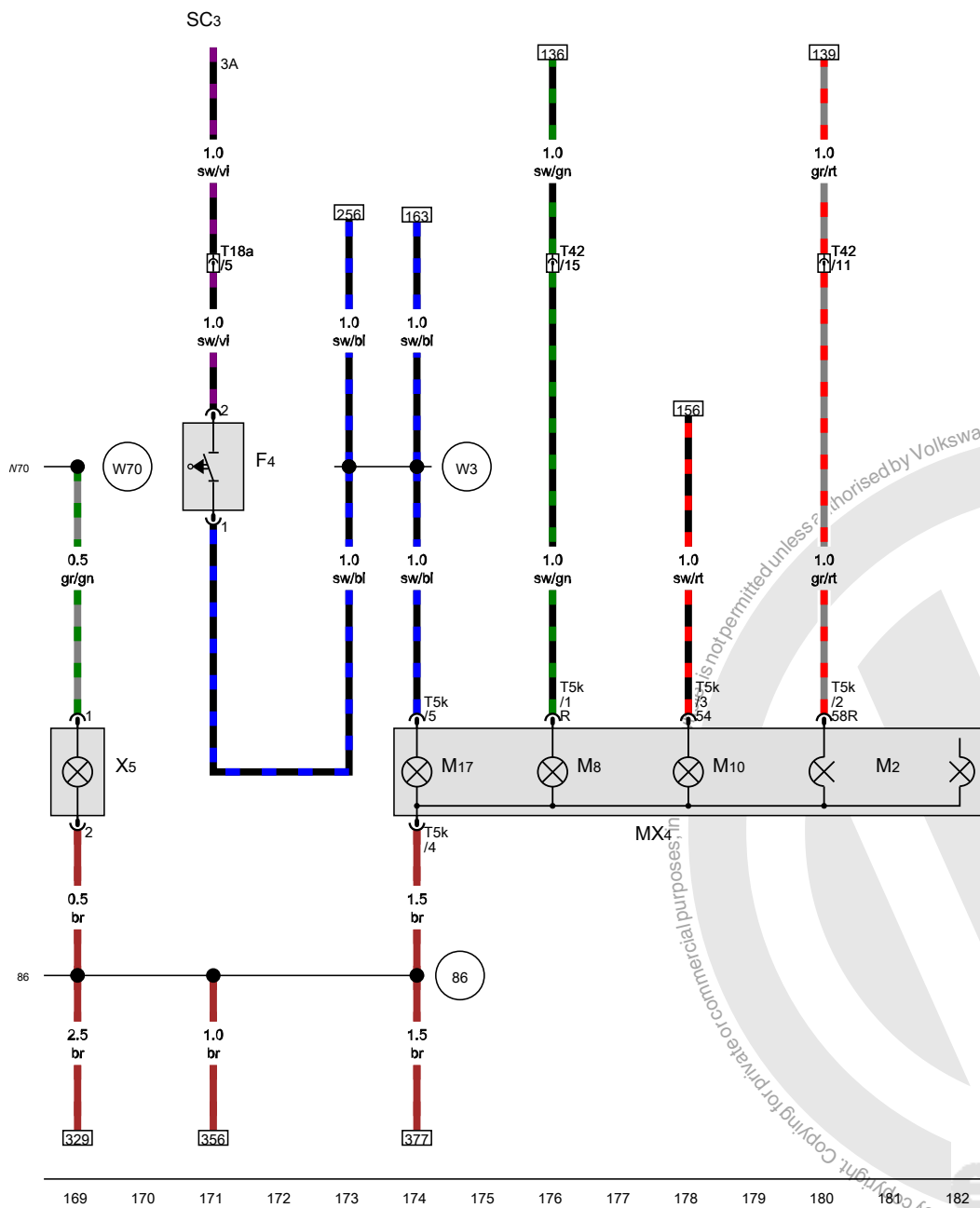
\*3 Only models with Highline equipment

\*4 Only models with Trendline equipment

\*5 Only models with basic equipment

\*6 Only models with no rear fog light





# Reversing light switch, Right tail light, Right number plate light

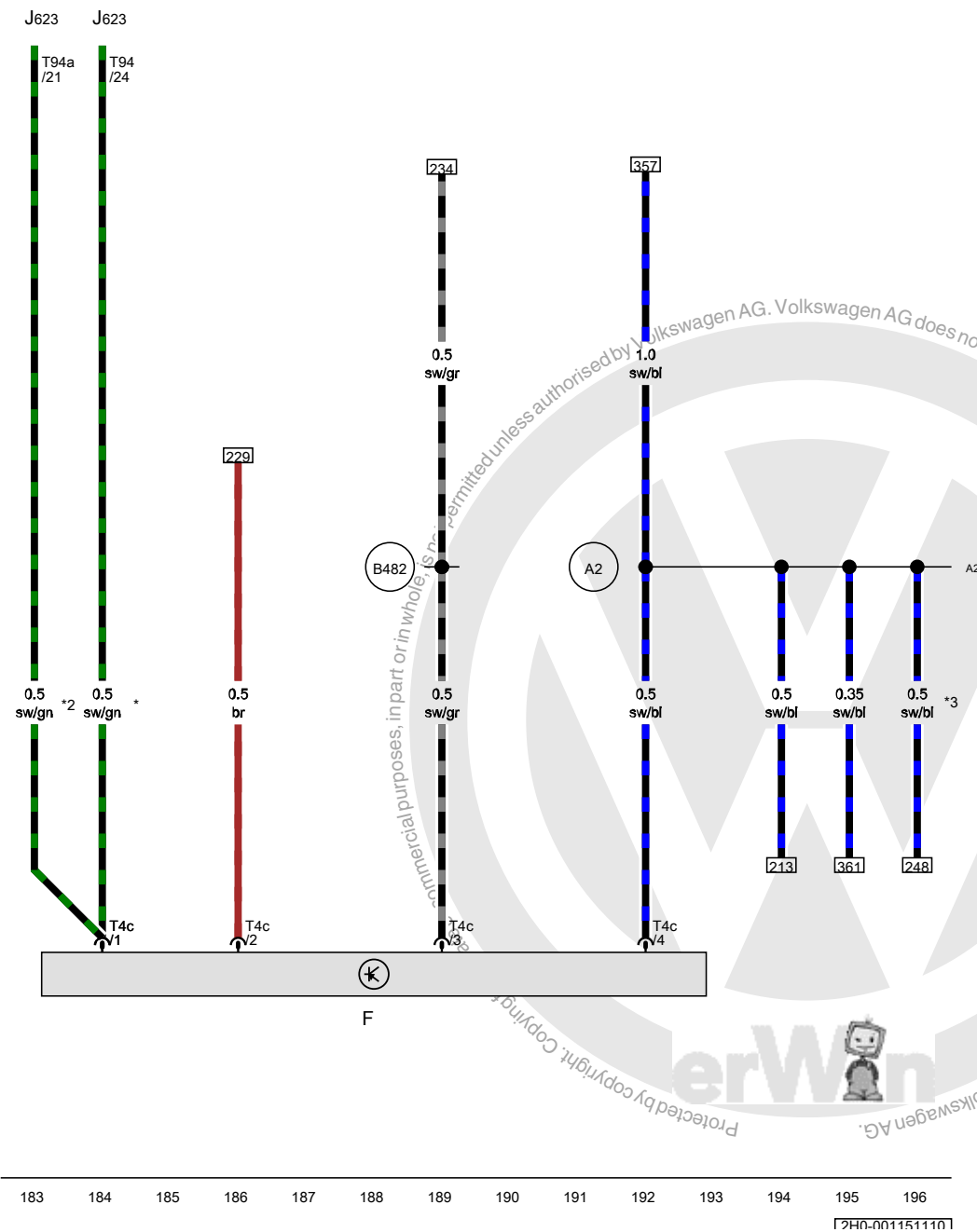
- F4 Reversing light switch
- M2 Right tail light bulb
- MX4 Right tail light
- M8 Rear right turn signal bulb
- M10 Right brake light bulb
- M17 Right reversing light bulb
- SC3 Fuse 3 on fuse holder C
- T5k 5-pin connector
- T18a 18-pin connector, near engine control unit
- T42 42-pin connector, near handbrake lever
- X5 Right number plate light

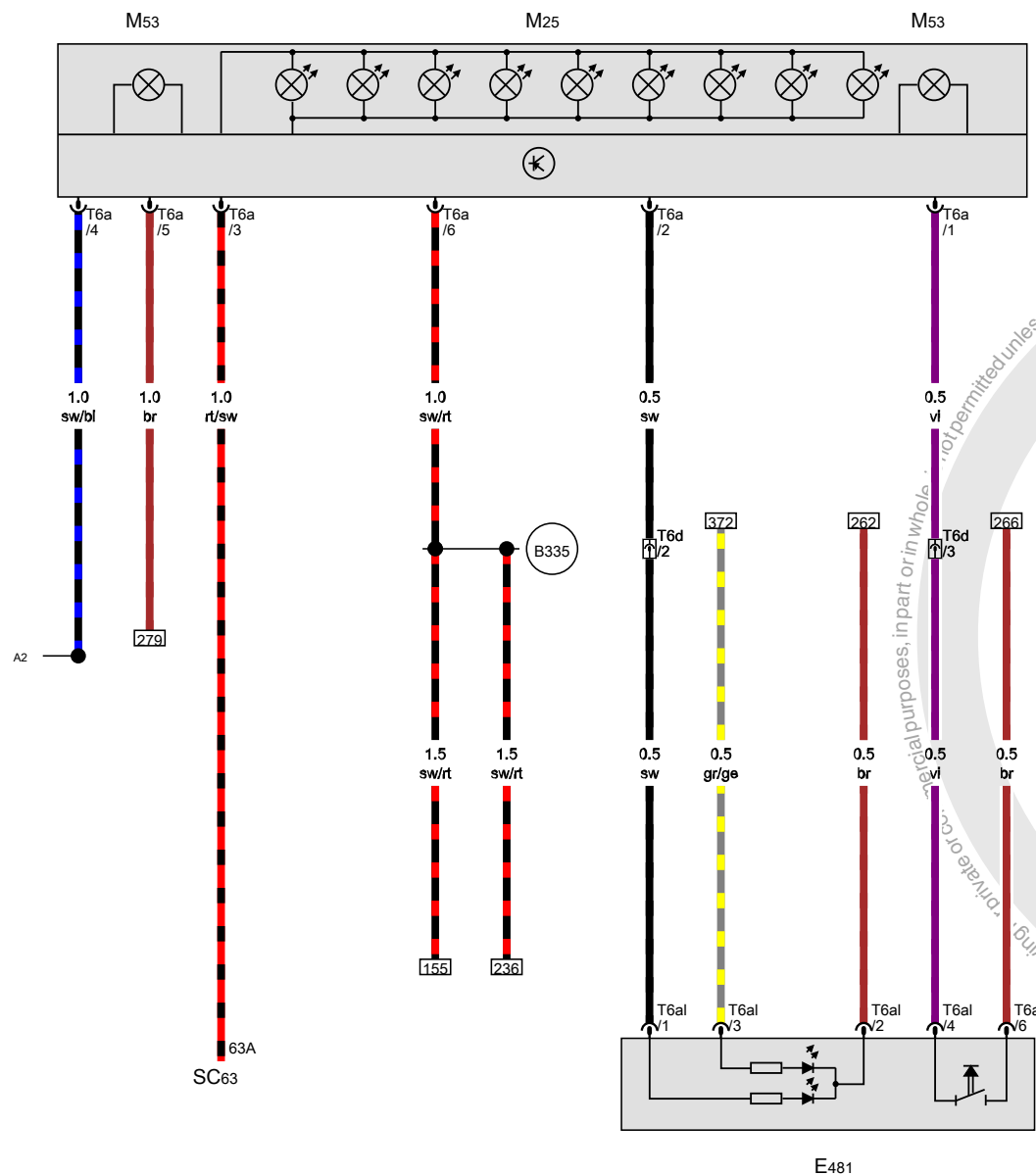
- 86 Earth connection 1, in rear wiring harness
- W3 Connection in rear wiring harness
- W70 Positive connection 2 (58), in number plate wiring harness

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 gr = grey  
 li = purple  
 ge = yellow  
 or = orange  
 rs = pink

# Brake light switch

- F Brake light switch
- J623 Engine control unit
- T4c 4-pin connector
- T94 94-pin connector
- T94a 94-pin connector
- A2 Positive connection (15), in dash panel wiring harness
- B482 Connection 18, in main wiring harness
- \* Only models with petrol engine
- \*2 Only models with diesel engines
- \*3 Only models with cruise control system (CCS)





**Load area illumination switch, Additional brake light bulb, Load area illumination bulb**

- E481 Load area illumination switch, near radio
- M25 Additional brake light bulb
- M53 Load area illumination bulb
- SC63 Fuse 63 on fuse holder C
- T6a 6-pin connector
- T6al 6-pin connector
- T6d 6-pin connector, on relay carrier

A2 Positive connection (15), in dash panel wiring harness

B335 Connection 1 (54), in main wiring harness

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

197 198 199 200 201 202 203 204 205 206 207 208 209 210

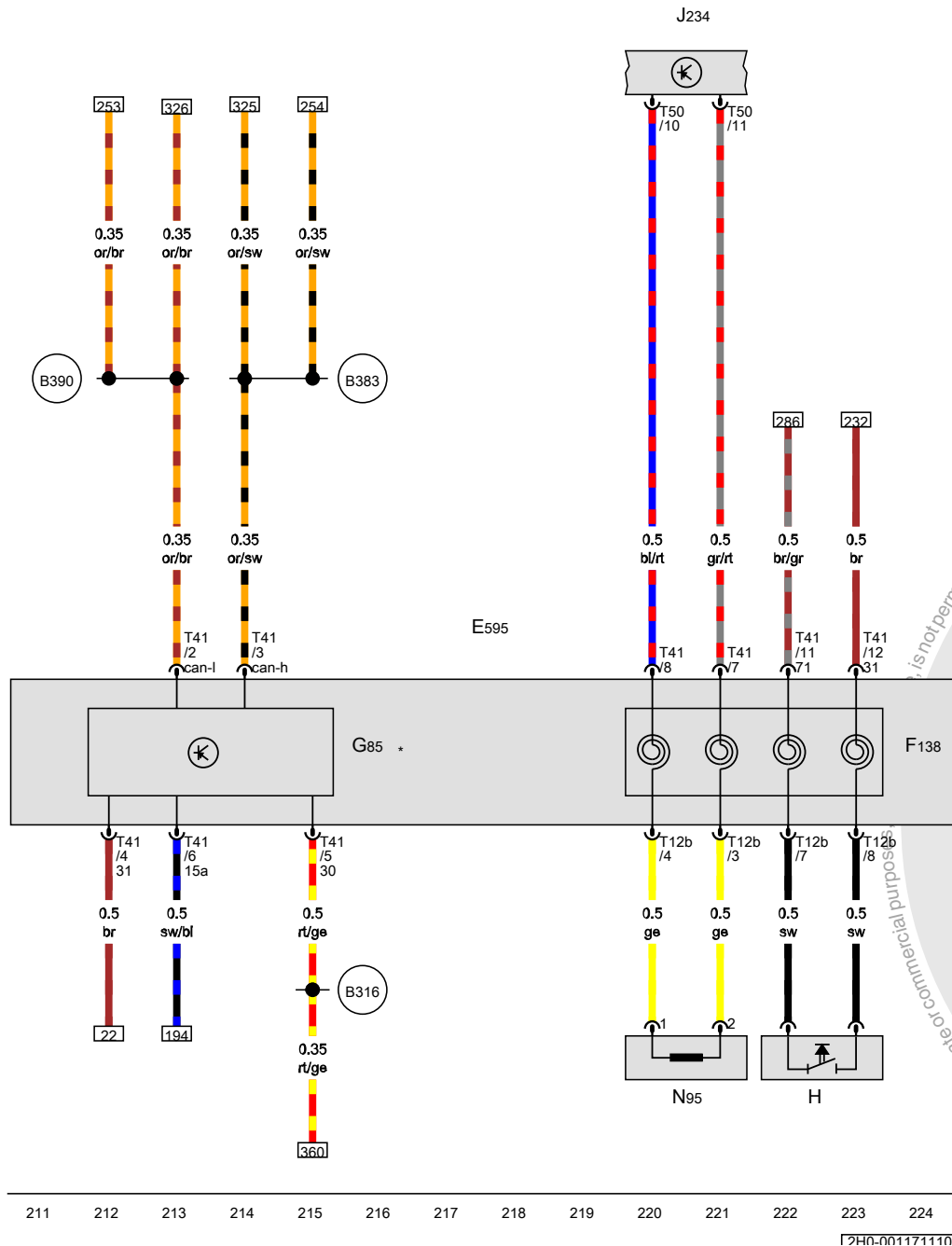
1740-001161110



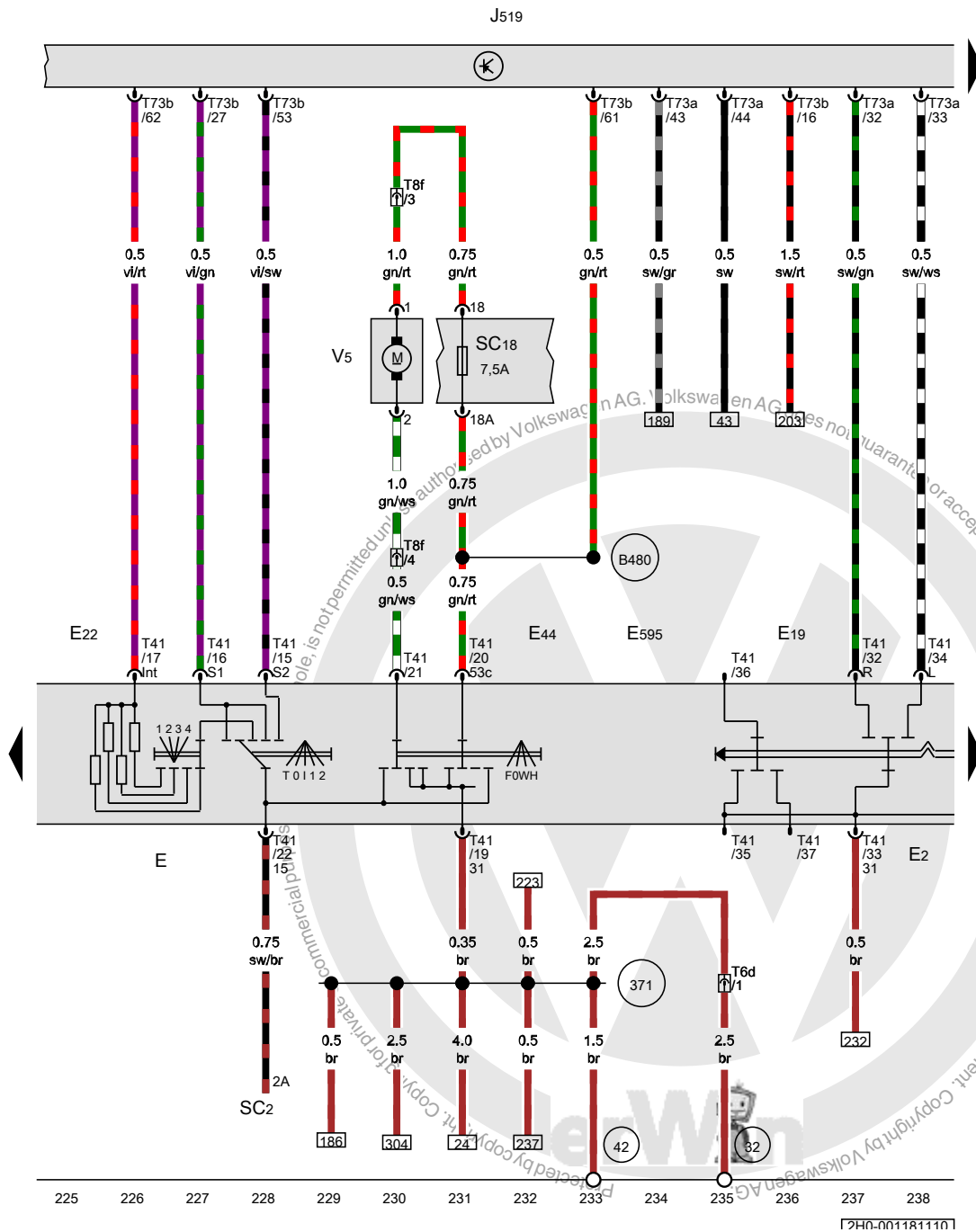
Steering column combination switch, Airbag coil connector and return ring with slip ring, Steering angle sender, Horn plate, Airbag control unit

- E595 Steering column combination switch
- F138 Airbag coil connector and return ring with slip ring, on steering wheel
- G85 Steering angle sender
- H Horn plate
- J234 Airbag control unit
- N95 Driver side airbag igniter
- T12b 12-pin connector
- T41 41-pin connector
- T50 50-pin connector

- B316 Positive connection 2 (30a) in main wiring harness
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- \* Only models with anti-lock brake system (ABS) and electronic stabilisation program (ESP)



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- bl = blue
- gr = grey
- li = purple
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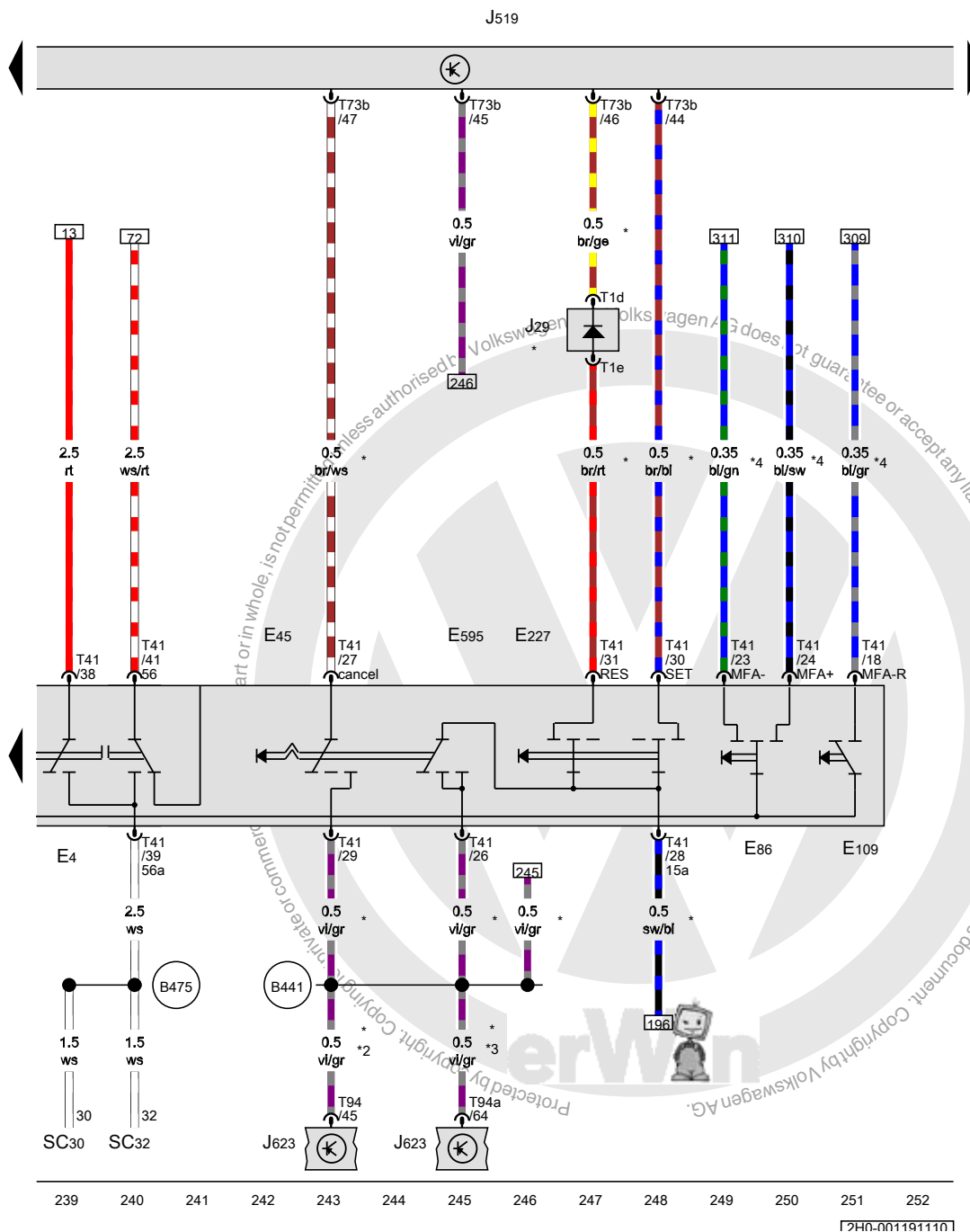


Turn signal switch, Intermittent wiper switch, Washer pump switch (automatic wash/wipe and headlight washer system), Steering column combination switch, Washer pump

- E Windscreen wiper switch
- E2 Turn signal switch
- E19 Parking light switch
- E22 Intermittent wiper switch
- E44 Washer pump switch (automatic wash/wipe and headlight washer system)
- E595 Steering column combination switch
- J519 Onboard supply control unit
- SC2 Fuse 2 on fuse holder C
- SC18 Fuse 18 on fuse holder C
- T6d 6-pin connector, in centre of dash panel
- T8f 8-pin connector, in rear left of engine compartment
- T41 41-pin connector
- T73a 73-pin connector
- T73b 73-pin connector
- V5 Washer pump

- 32 Earth point, on left behind dash panel
- 42 Earth point, next to steering column
- 371 Earth connection 6, in main wiring harness
- B480 Connection 16, in main wiring harness

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 gn = green  
 bl = blue  
 gr = grey  
 li = purple  
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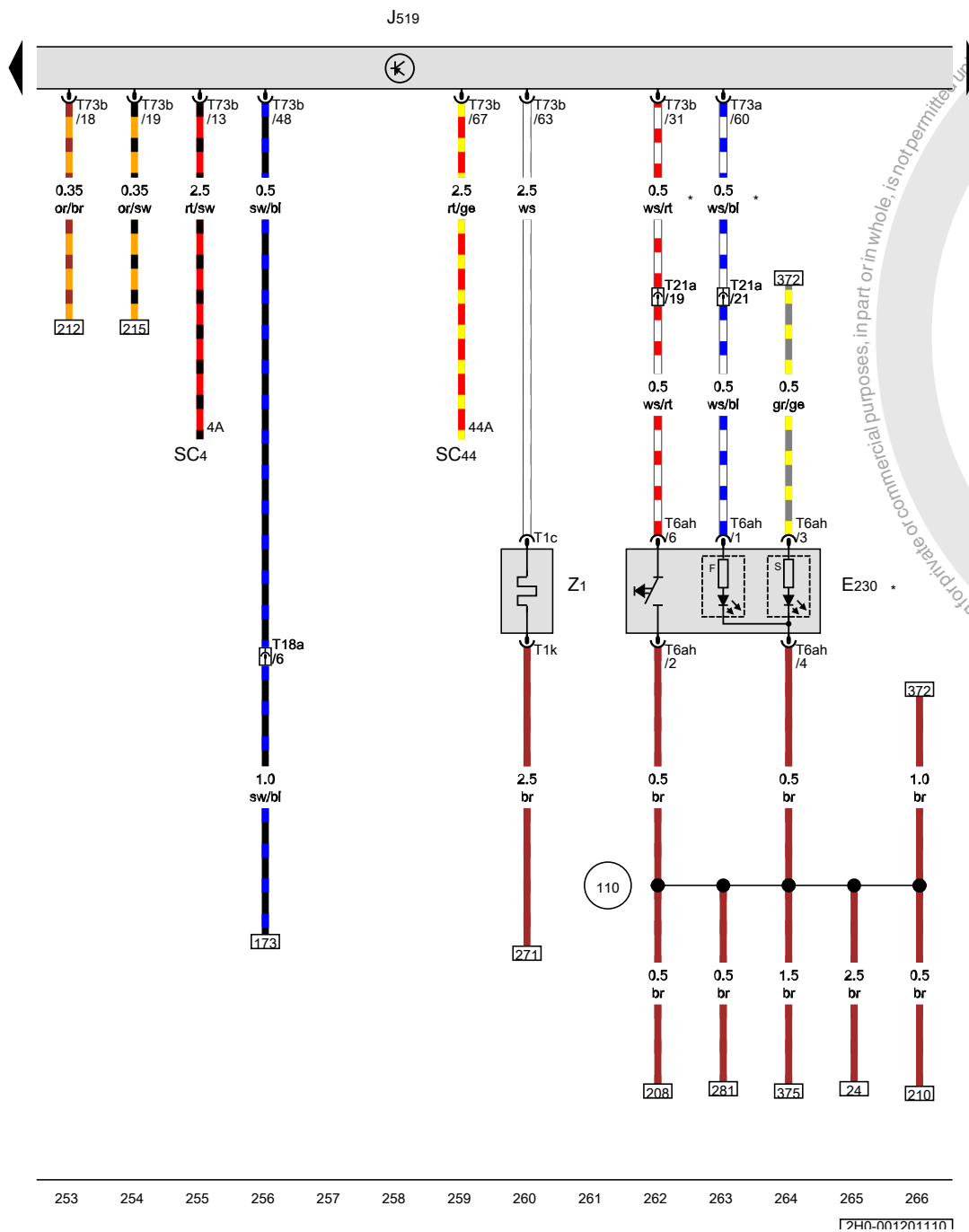
Headlight dipper and flasher switch, Cruise control system switch, Multifunction display call-up button, Multifunction display memory switch, Steering column combination switch

- E4 Headlight dipper and flasher switch
- E45 Cruise control system switch
- E86 Multifunction display call-up button
- E109 Multifunction display memory switch
- E227 Cruise control system (CCS) SET button
- E595 Steering column combination switch
- J29 Blocking diode, near steering column
- J519 Onboard supply control unit
- J623 Engine control unit
- SC30 Fuse 30 on fuse holder C
- SC32 Fuse 32 on fuse holder C
- T1d Single connector
- T1e Single connector
- T41 41-pin connector
- T73b 73-pin connector
- T94 94-pin connector
- T94a 94-pin connector

B441 Connection (CCS), in main wiring harness

B475 Connection 11, in main wiring harness

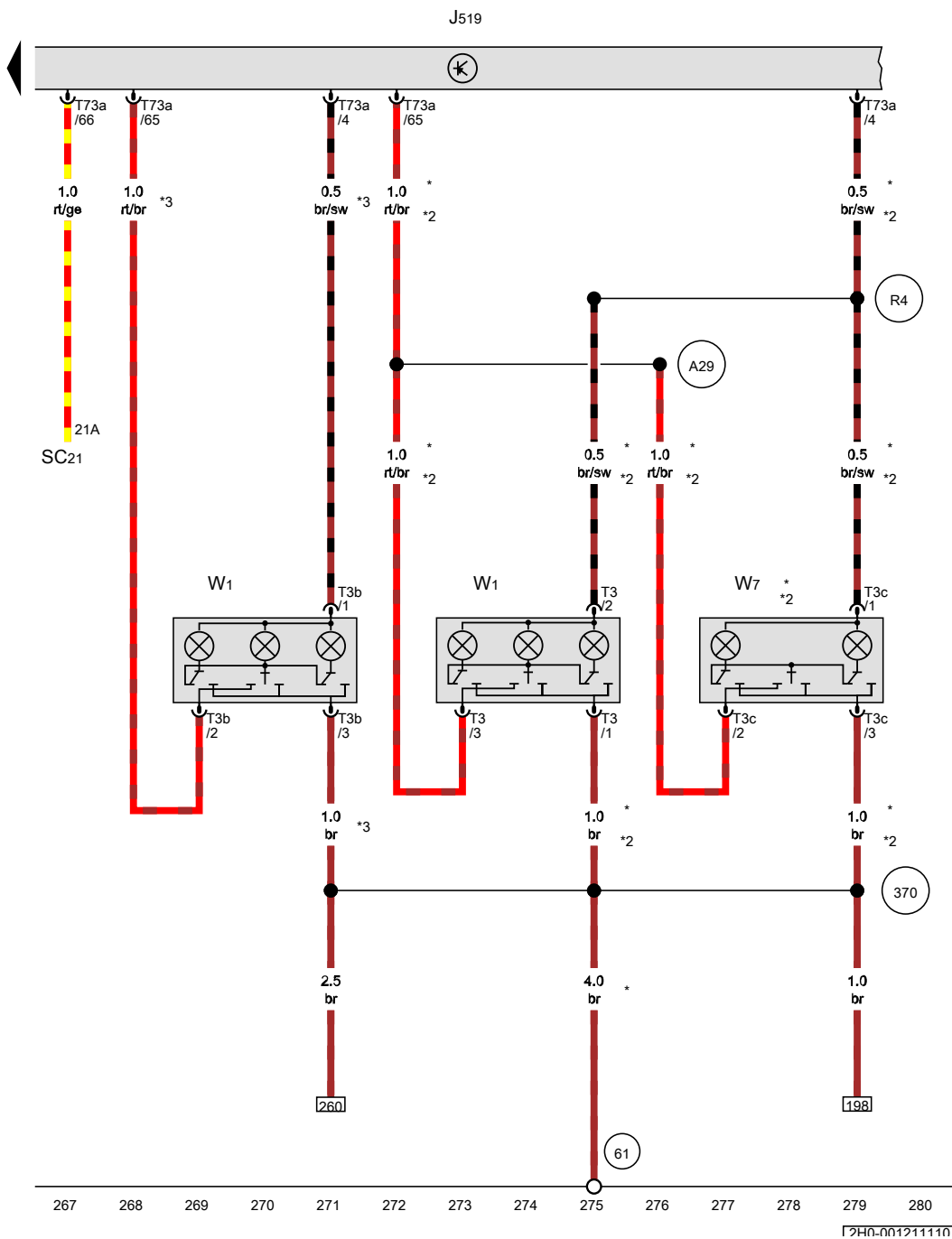
- \* Only models with cruise control system (CCS)
- \*2 Only models with petrol engine
- \*3 Only models with diesel engines
- \*4 Only models with multifunction display



# Heated rear window button, Heated rear window

- E230 Heated rear window button, near radio
- J519 Onboard supply control unit
- SC4 Fuse 4 on fuse holder C
- SC44 Fuse 44 on fuse holder C
- T1c Single connector
- T1k Single connector
- T6ah 6-pin connector
- T18a 18-pin connector, near engine control unit
- T21a 21-pin connector, on relay carrier
- T73a 73-pin connector
- T73b 73-pin connector
- Z1 Heated rear window
- 110 Earth connection 2, in dash panel wiring harness
- \* Only models with no air conditioning system/Climatronic

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## Front interior light, Centre interior light

J519 Onboard supply control unit  
 SC21 Fuse 21 on fuse holder C  
 T3 3-pin connector  
 T3b 3-pin connector  
 T3c 3-pin connector  
 T73a 73-pin connector  
 W1 Front interior light  
 W7 Centre interior light

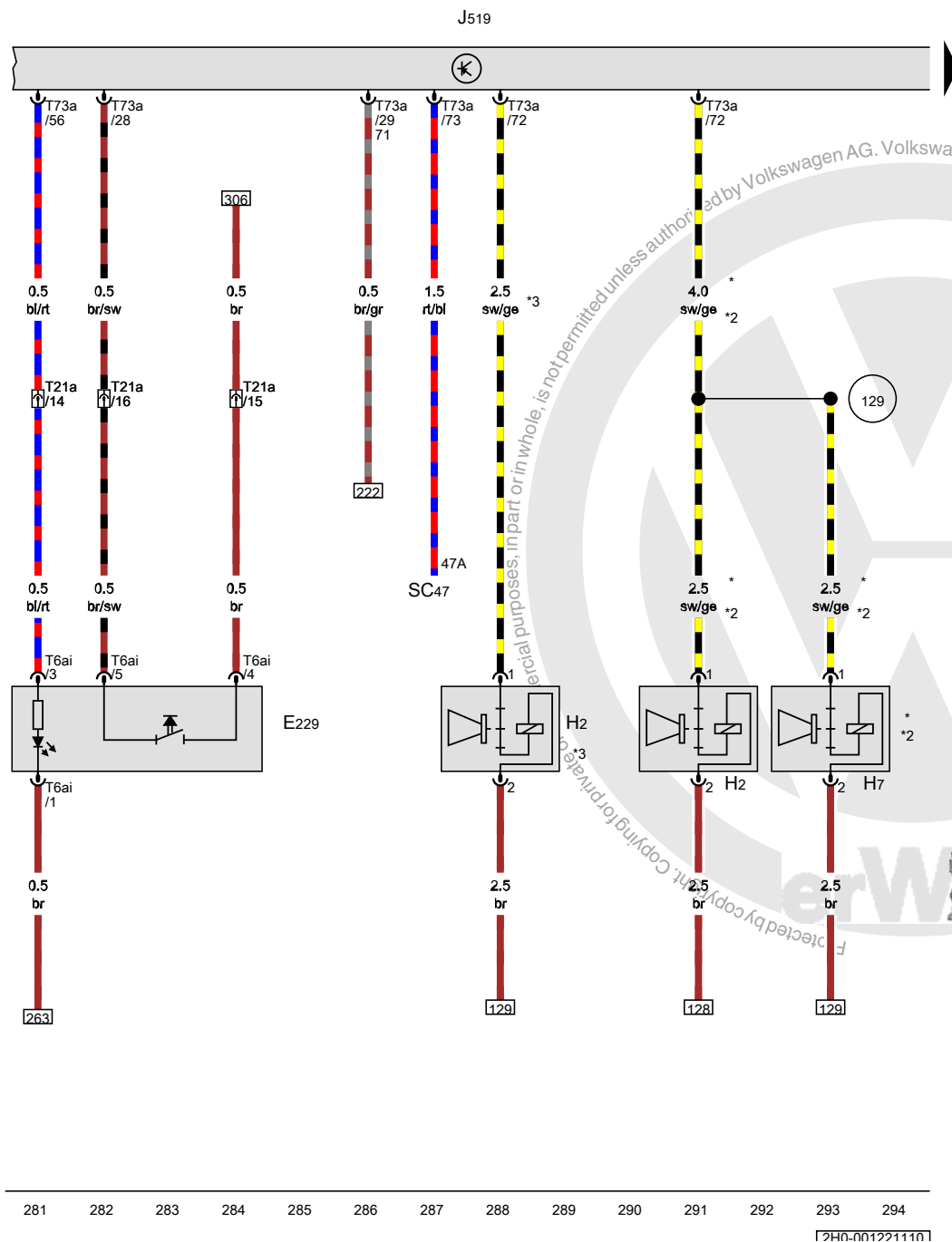
61 Earth point, left C-pillar  
 370 Earth connection 5, in main wiring harness  
 A29 Connection (interior light), in dash panel wiring harness  
 R4 Connection 1, in interior light/door contact switch wiring harness  
 \* Only models with double cab  
 \*2 Only models with Highline equipment  
 \*3 Only models with basic equipment

Hazard warning lights button, Treble horn, Bass horn

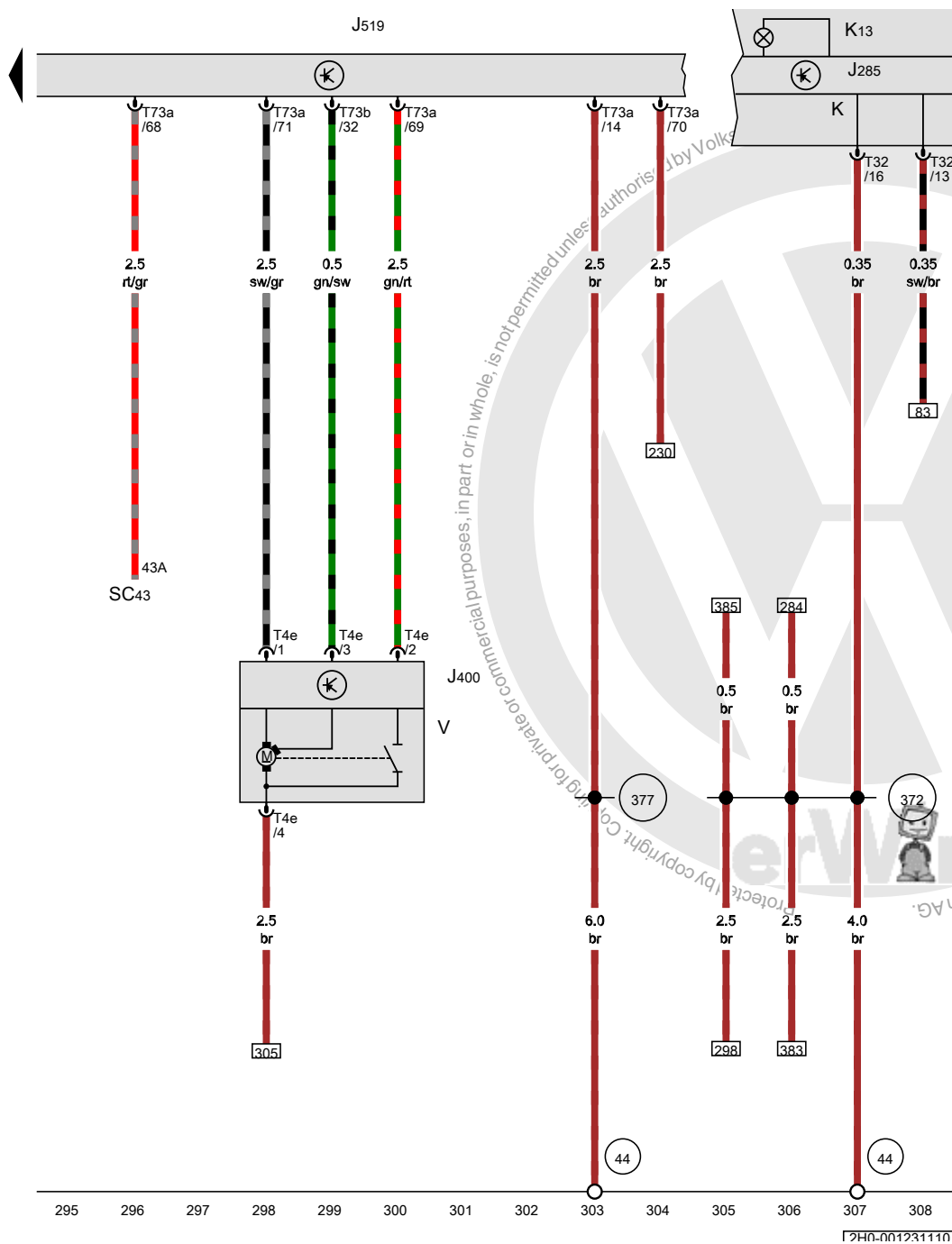
- E229 Hazard warning lights button, near radio
- H2 Treble horn
- H7 Bass horn
- J519 Onboard supply control unit
- SC47 Fuse 47 on fuse holder C
- T6ai 6-pin connector
- T21a 21-pin connector, on relay carrier
- T73a 73-pin connector

129 Earth connection, in dual tone horn wiring harness

- \* Only models with Highline equipment
- \*2 Only models with Trendline equipment
- \*3 Only models with basic equipment



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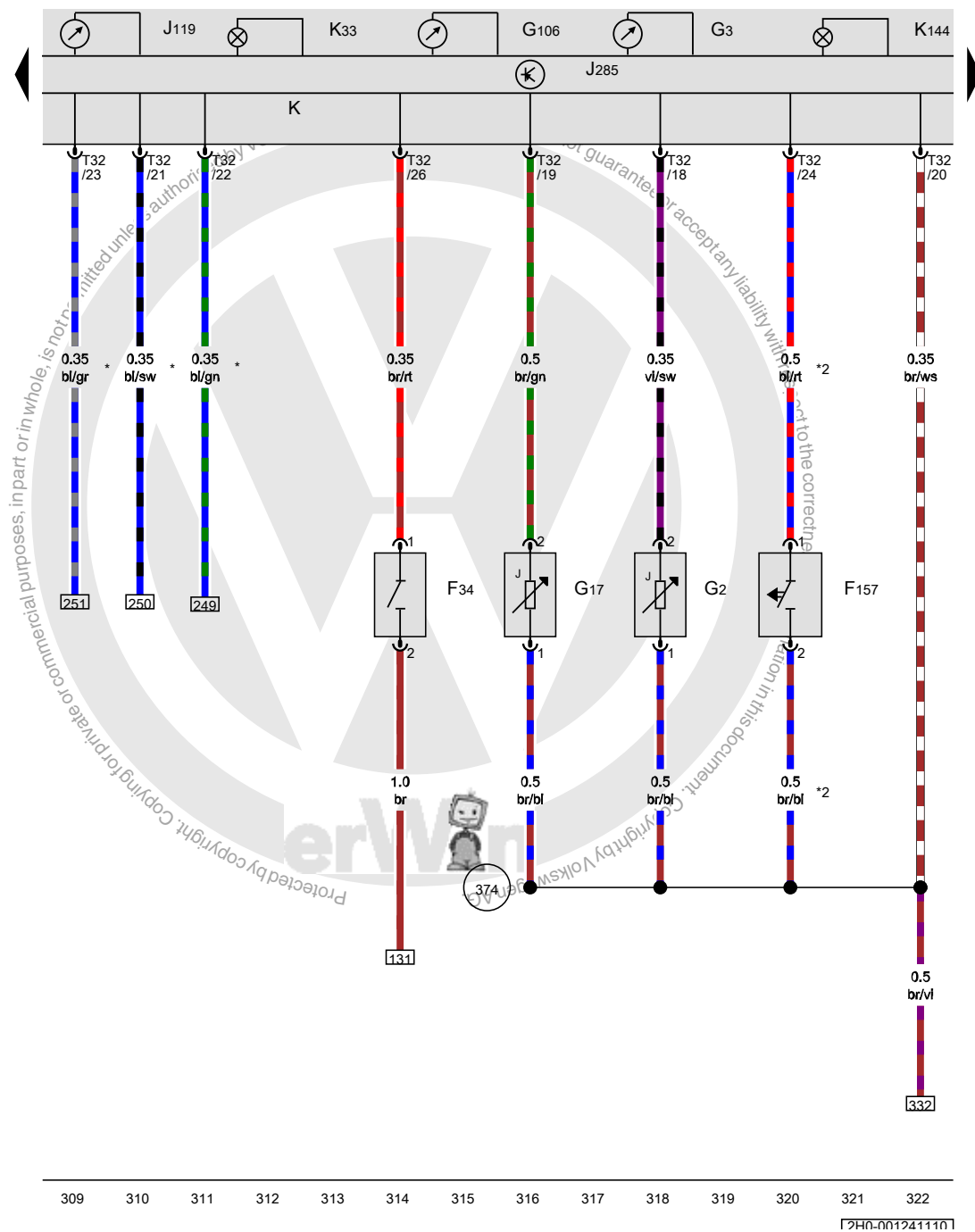


# Dash panel insert, Windscreen wiper motor

- J285 Control unit in dash panel insert
- J400 Wiper motor control unit
- J519 Onboard supply control unit
- K Dash panel insert
- K13 Rear fog light warning lamp
- SC43 Fuse 43 on fuse holder C
- T4e 4-pin connector
- T32 32-pin connector
- T73a 73-pin connector
- T73b 73-pin connector
- V Windscreen wiper motor

- 44 Earth point, lower part of left A-pillar
- 372 Earth connection 7, in main wiring harness
- 377 Earth connection 12, in main wiring harness

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Brake fluid level warning contact, Belt fastened contact on driver side, Coolant temperature display sender, Coolant temperature gauge, Ambient temperature sensor, Ambient temperature indicator, Multifunction indicator, Dash panel insert, Brake fluid level warning lamp, Driver side airbag deactivated warning lamp

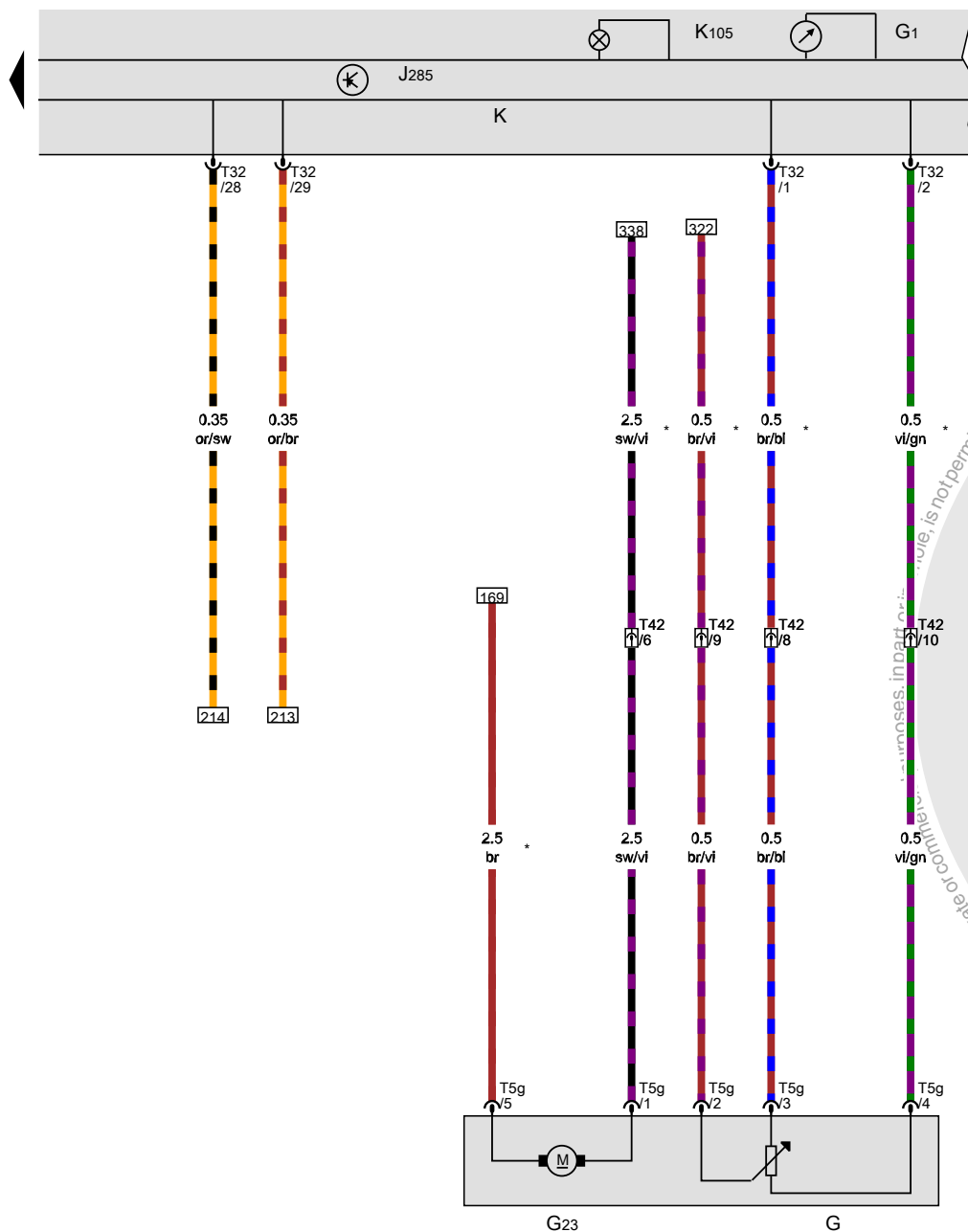
- F34 Brake fluid level warning contact
- F157 Belt fastened contact on driver side
- G2 Coolant temperature display sender
- G3 Coolant temperature gauge
- G17 Ambient temperature sensor
- G106 Ambient temperature indicator
- J119 Multifunction indicator
- J285 Control unit in dash panel insert
- K Dash panel insert
- K33 Brake fluid level warning lamp
- K144 Driver side airbag deactivated warning lamp
- T32 32-pin connector

374 Earth connection 9, in main wiring harness

\* Only models with multifunction display

\*2 Only models with no airbag





# Fuel gauge, Fuel pump, Dash panel insert, Reserve fuel warning lamp

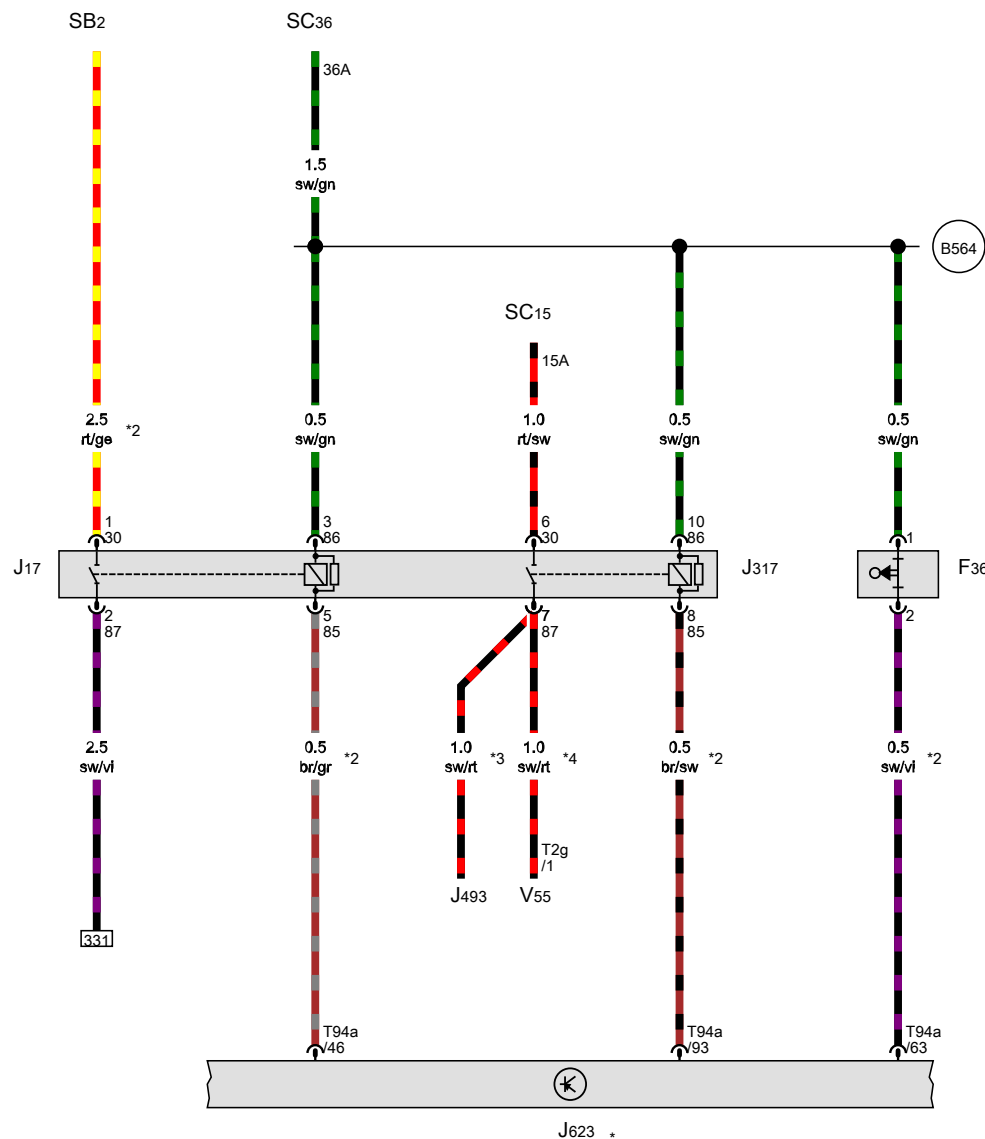
- G Fuel gauge sender
- G1 Fuel gauge
- G23 Fuel pump
- J285 Control unit in dash panel insert
- K Dash panel insert
- K105 Reserve fuel warning lamp
- T5g 5-pin connector
- T32 32-pin connector
- T42 42-pin connector, near handbrake lever
- \* see applicable current flow diagram for engine

Clutch pedal switch, Fuel pump relay, Terminal 30 voltage supply relay, Engine control unit

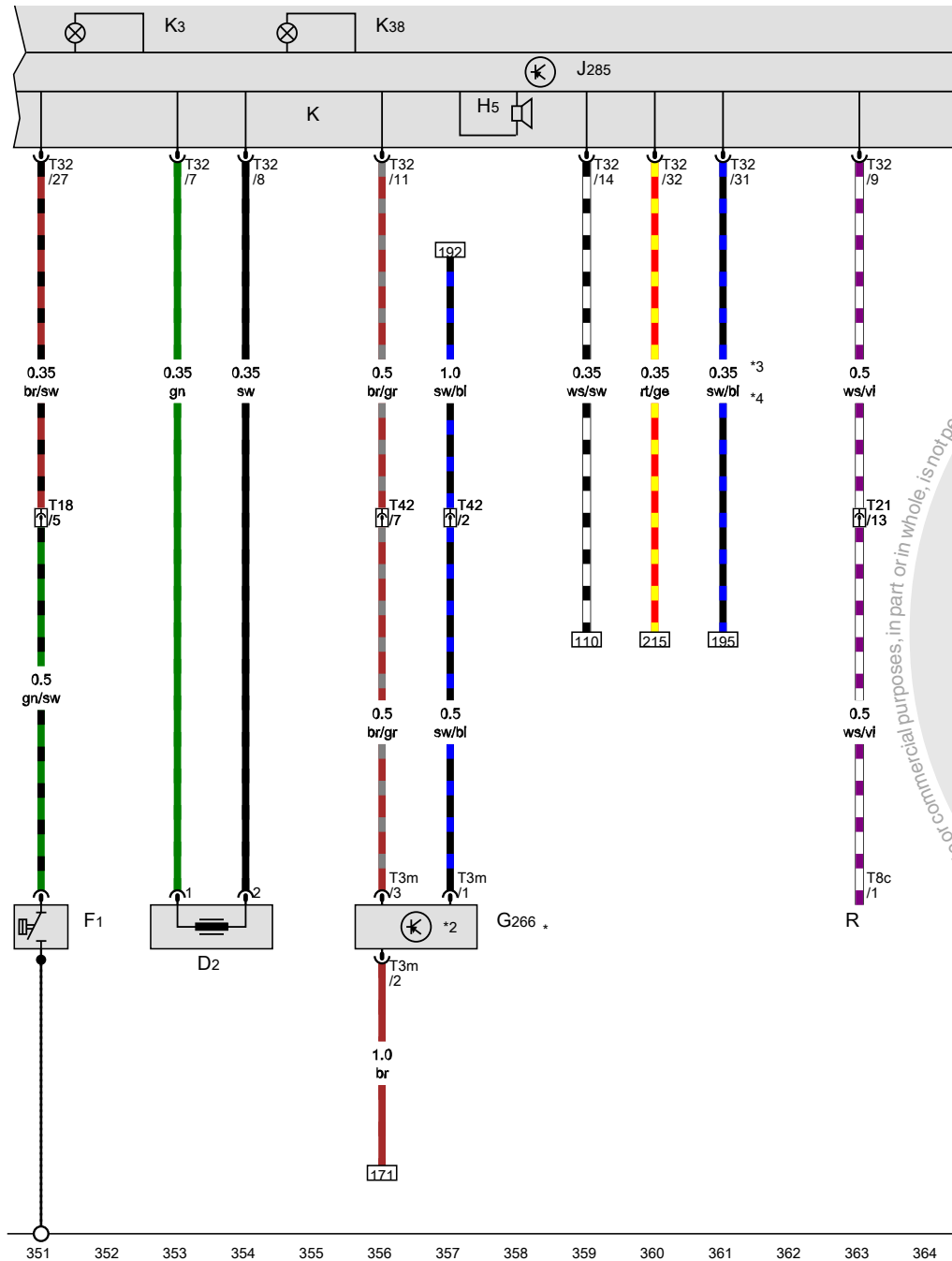
- F36 Clutch pedal switch
- J17 Fuel pump relay
- J317 Terminal 30 voltage supply relay
- J493 Auxiliary coolant heater relay
- J623 Engine control unit
- SB2 Fuse 2 on fuse holder B
- SC15 Fuse 15 on fuse holder C
- SC36 Fuse 36 on fuse holder C
- T2g 2-pin connector
- T94a 94-pin connector
- V55 Circulation pump

B564 Connection 31, in main wiring harness

- \* see applicable current flow diagram for engine
- \*2 Only models with diesel engines
- \*3 Only models with air conditioning system/ Climatronic
- \*4 Only models with no air conditioning system/ Climatronic



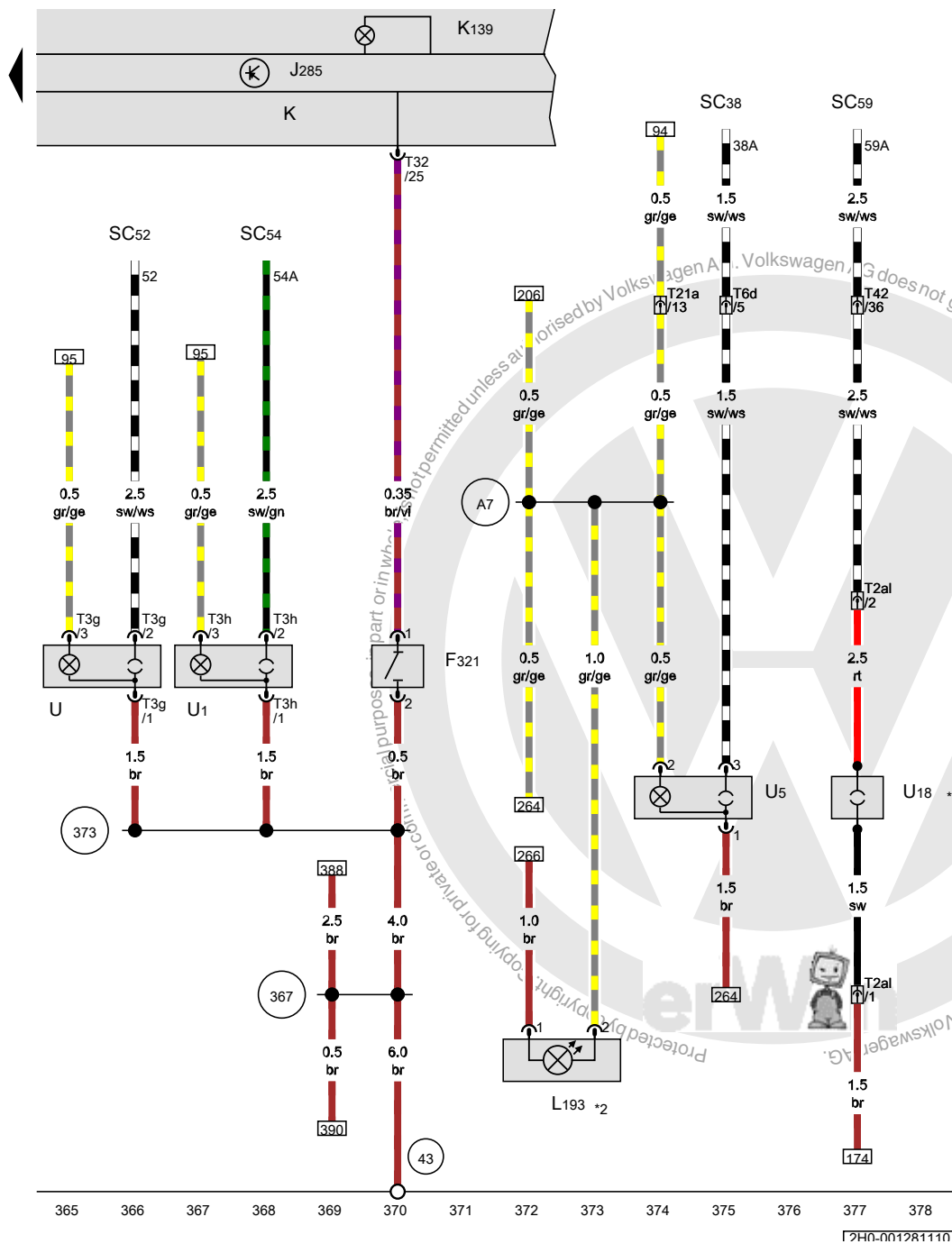
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Immobiliser reader coil, Oil pressure switch, Oil level and oil temperature sender, Ignition and starter key warning system buzzer and gong, Dash panel insert, Oil pressure warning lamp, Oil level warning lamp, Radio

- |      |  |
|------|--|
| D2   | Immobiliser reader coil, on ignition/starter switch                            |
| F1   | Oil pressure switch  |
| G266 | Oil level and oil temperature sender   |
| H5   | Ignition and starter key warning system buzzer and gong                        |
| J285 | Control unit in dash panel insert  |
| K    | Dash panel insert  |
| K3   | Oil pressure warning lamp  |
| K38  | Oil level warning lamp   |
| R    | Radio  |
| T3m  | 3-pin connector  |
| T8c  | 8-pin connector  |
| T18  | 18-pin connector, near engine control unit                                     |
| T21  | 21-pin connector, on heater and air conditioner unit, front passenger footwell |
| T32  | 32-pin connector   |
| T42  | 42-pin connector, near handbrake lever   |
| *    | see applicable current flow diagram for engine                                 |
| *2   | Only models with Euro 5 emission standard                                      |
| *3   | Country specific   |
| *4   | If fitted  |

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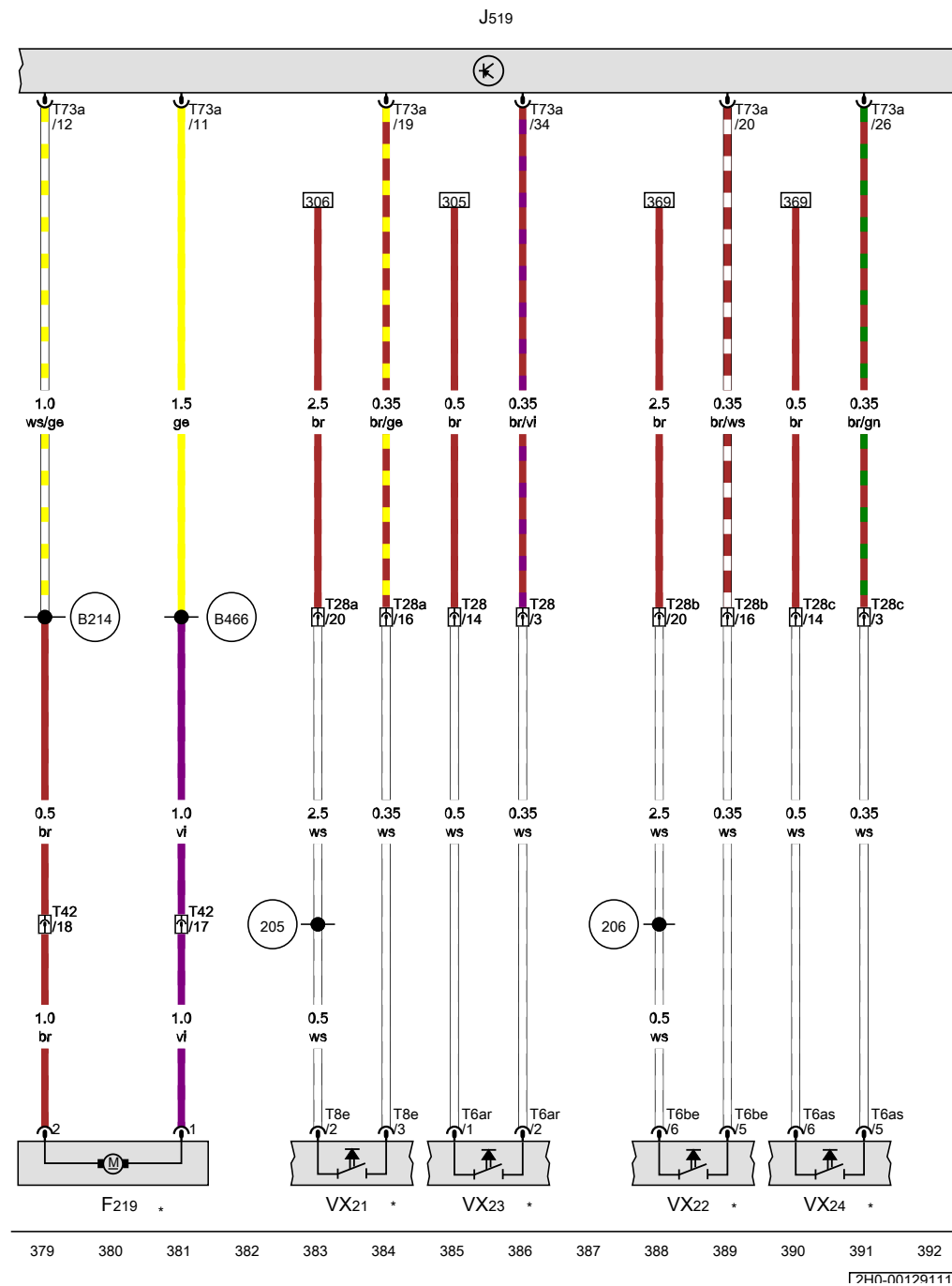


Parking brake contact switch, Dash panel insert, Handbrake warning lamp, Light 1 for front centre console background lighting, Electric socket, Cigarette lighter, 12 V socket, 12 V socket 2

- F321 Parking brake contact switch
- J285 Control unit in dash panel insert
- K Dash panel insert
- K139 Handbrake warning lamp
- L193 Light 1 for front centre console background lighting
- SC38 Fuse 38 on fuse holder C
- SC52 Fuse 52 on fuse holder C
- SC54 Fuse 54 on fuse holder C
- SC59 Fuse 59 on fuse holder C
- T21a 2-pin connector, Interface for rear left socket, on wheel housing
- T3g 3-pin connector
- T3h 3-pin connector
- T6d 6-pin connector, on relay carrier
- T21a 21-pin connector, on relay carrier
- T32 32-pin connector
- T42 42-pin connector, near handbrake lever
- U Electric socket
- U1 Cigarette lighter
- U5 12 V socket
- U18 12 V socket 2

- 43 Earth point, lower part of right A-pillar
- 367 Earth connection 2, in main wiring harness
- 373 Earth connection 8, in main wiring harness
- A7 Positive connection (58 D1), in dash panel wiring harness
- \* Special equipment
- \*2 Only models with Highline equipment

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Fuel tank filler flap central locking actuator, Onboard supply control unit, Driver door lock unit, Front passenger door lock unit, Rear left door lock unit, Rear right door lock unit

- F219 Fuel tank filler flap central locking actuator
- J519 Onboard supply control unit
- T6ar 6-pin connector
- T6as 6-pin connector
- T6be 6-pin connector
- T8e 8-pin connector
- T28 28-pin connector, on left B-pillar
- T28a 28-pin connector, on left A-pillar
- T28b 28-pin connector, Right A-pillar
- T28c 28-pin connector, on right B-pillar
- T42 42-pin connector, near handbrake lever
- T73a 73-pin connector
- VX21 Driver door lock unit
- VX22 Front passenger door lock unit
- VX23 Rear left door lock unit
- VX24 Rear right door lock unit

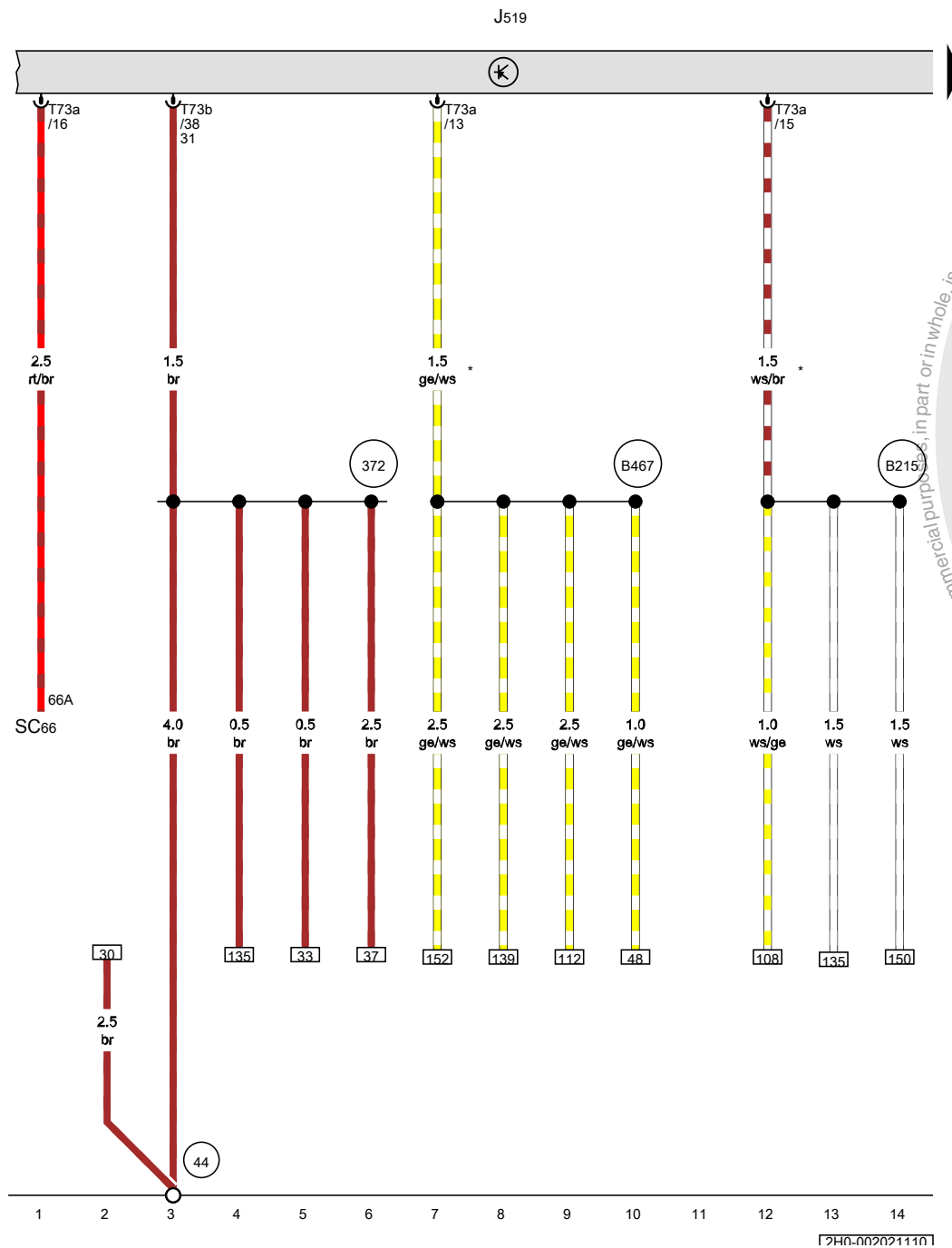
- 205 Earth connection, in driver door wiring harness
- 206 Earth connection, in front passenger door wiring harness
- B214 Connection 1 (central locking), in interior wiring harness
- B466 Connection 2, in main wiring harness
- \* Only models with no central locking

- ws = white
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## Central locking, window regulators and mirror adjustment

From December 2009



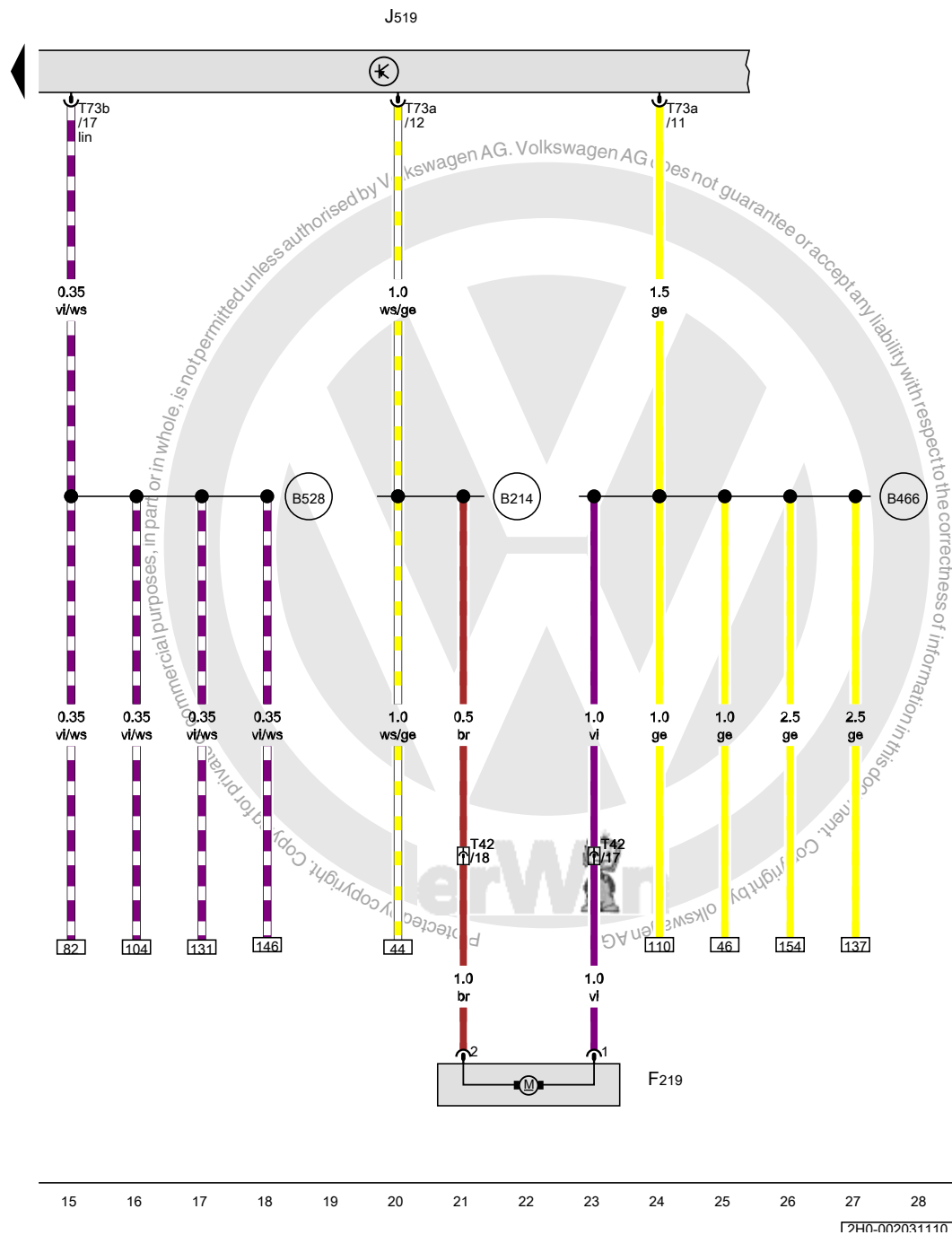


### Onboard supply control unit

J519 Onboard supply control unit, near driver side A-pillar  
 SC66 Fuse 66 on fuse holder C  
 T73a 73-pin connector  
 T73b 73-pin connector

- 44 Earth point, lower part of left A-pillar
- 372 Earth connection 7, in main wiring harness
- B215 Connection 2 (central locking), in interior wiring harness
- B467 Connection 3, in main wiring harness
- \* Only models with double cab

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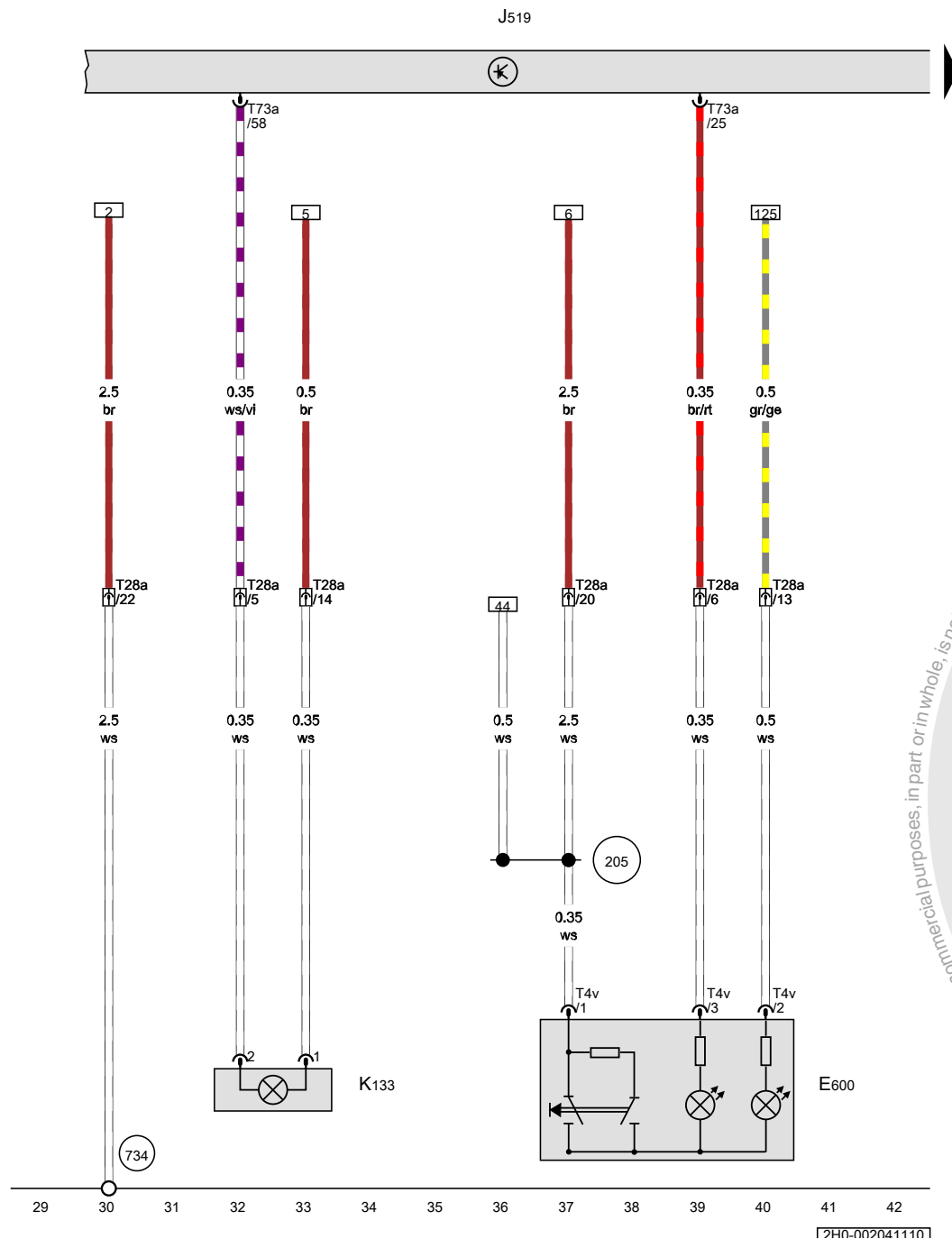


**Fuel tank filler flap central locking actuator, Onboard supply control unit**

- F219 Fuel tank filler flap central locking actuator
- J519 Onboard supply control unit, near driver side A-pillar
- T42 42-pin connector, near handbrake lever
- T73a 73-pin connector
- T73b 73-pin connector

- B214 Connection 1 (central locking), in interior wiring harness
- B466 Connection 2, in main wiring harness
- B528 Connection 1 (LIN bus) in main wiring harness





Central locking button, Onboard supply control unit, Central locking deadlock function warning lamp -SAFE-

- E600 Central locking button, in driver door
- J519 Onboard supply control unit, near driver side A-pillar
- K133 Central locking deadlock function warning lamp -SAFE-
- T4v 4-pin connector
- T28a 28-pin connector, on left A-pillar
- T73a 73-pin connector

205 Earth connection, in driver door wiring harness

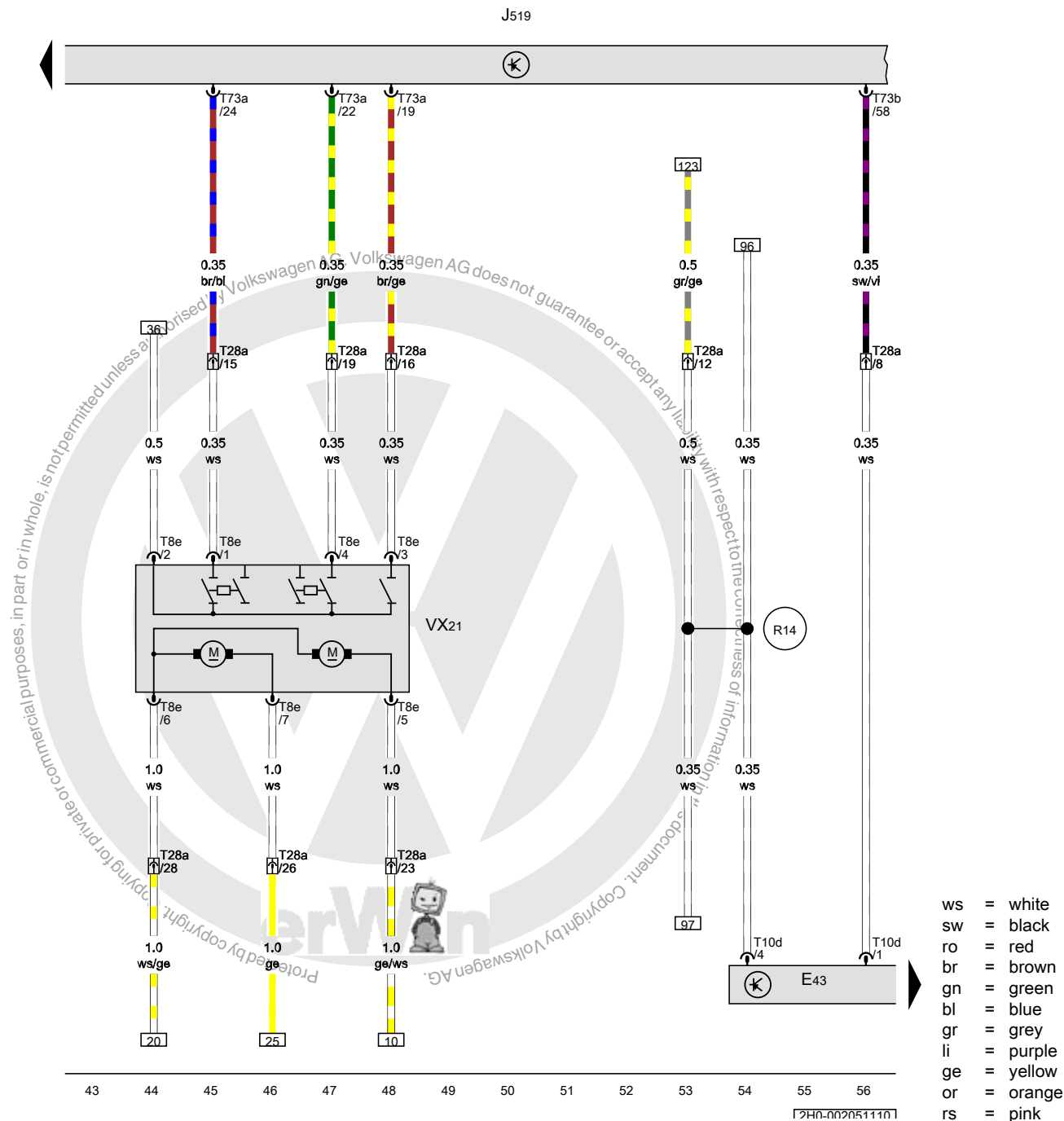
734 Earth point in front left door

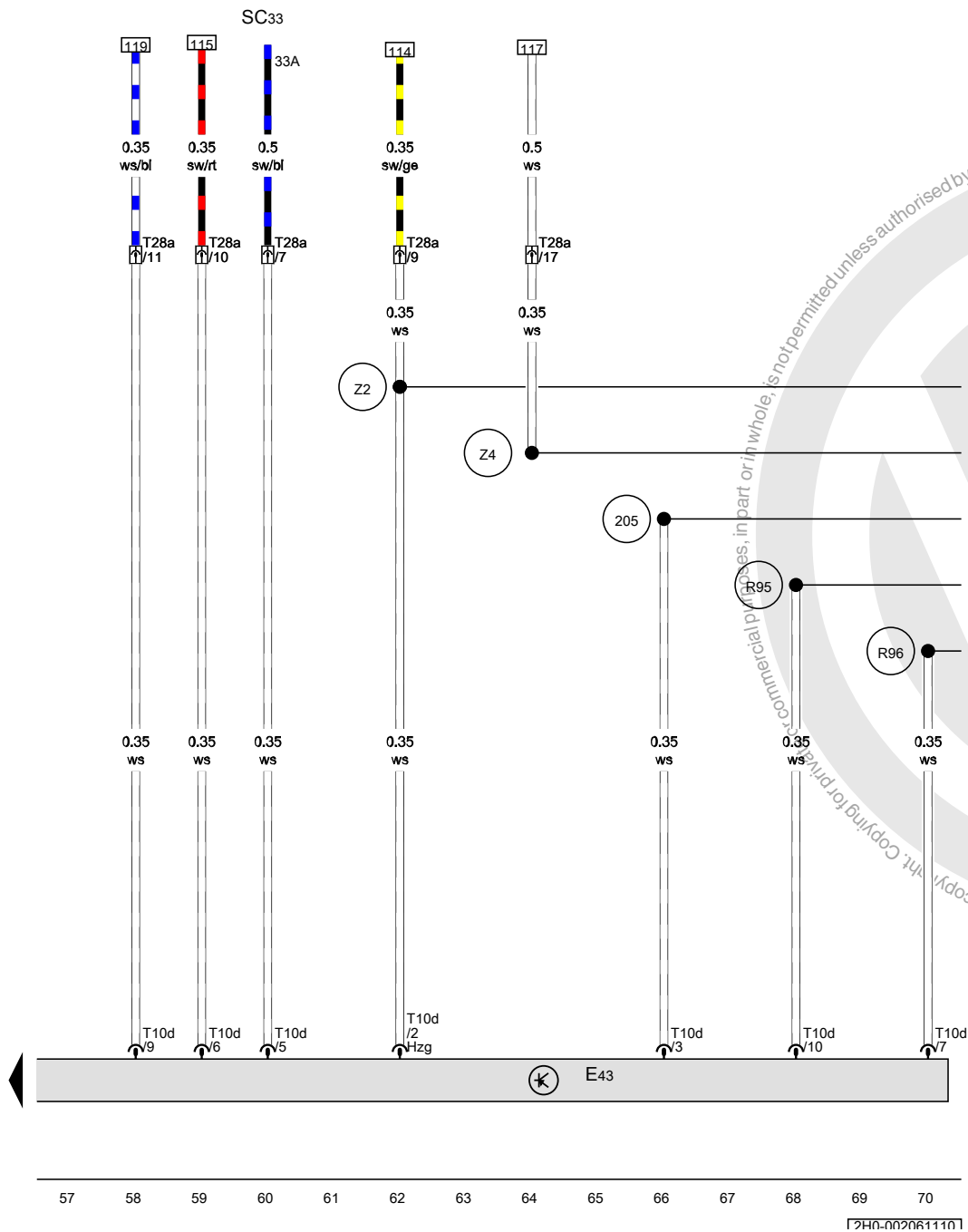
J519

Mirror adjustment switch, Onboard supply control unit,  
Driver door lock unit

- E43 Mirror adjustment switch, in driver door
- J519 Onboard supply control unit, near driver side A-pillar
- T8e 8-pin connector
- T10d 10-pin connector
- T28a 28-pin connector, on left A-pillar
- T73a 73-pin connector
- T73b 73-pin connector
- VX21 Driver door lock unit

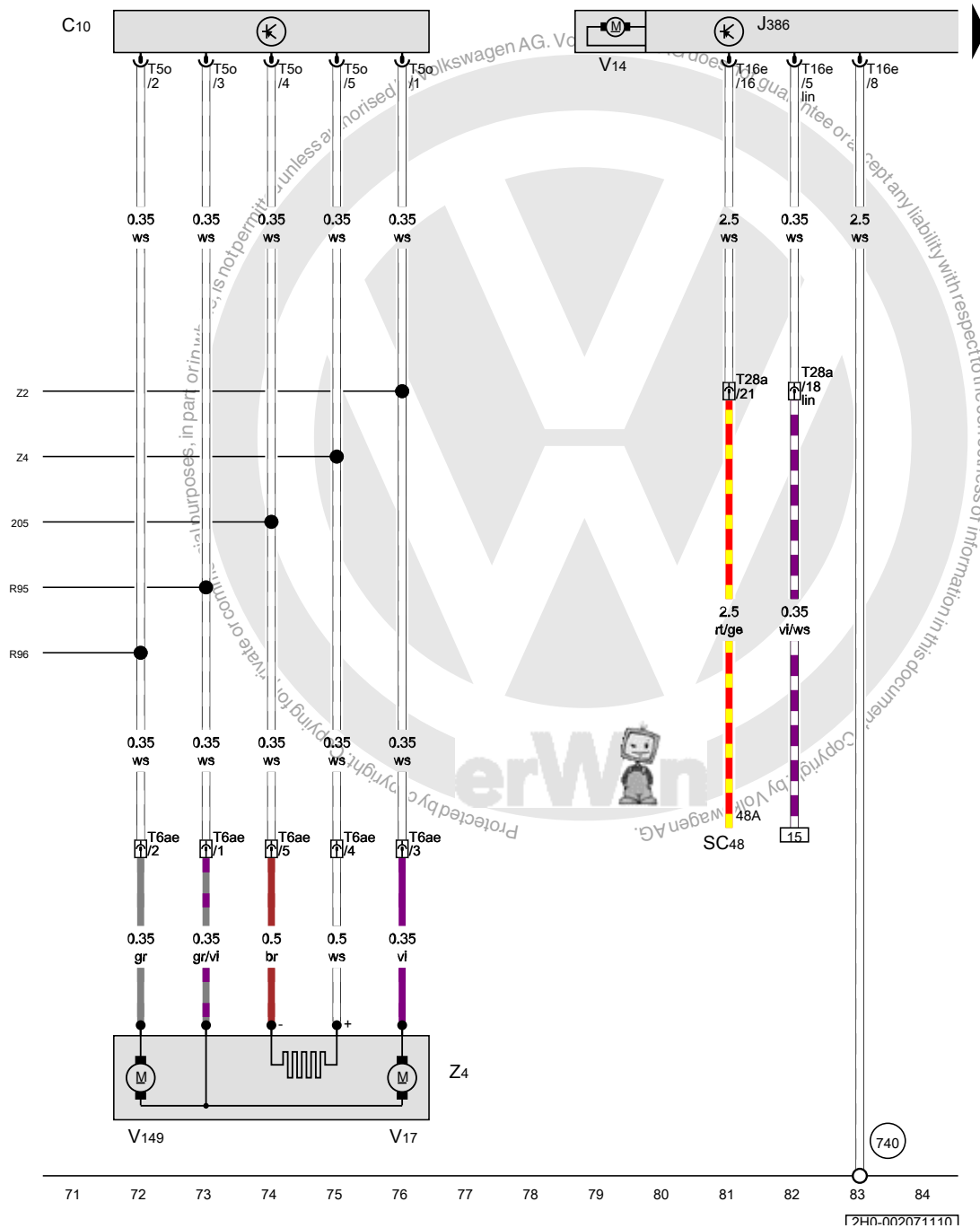
R14 Connection 1 (open), in driver door wiring harness





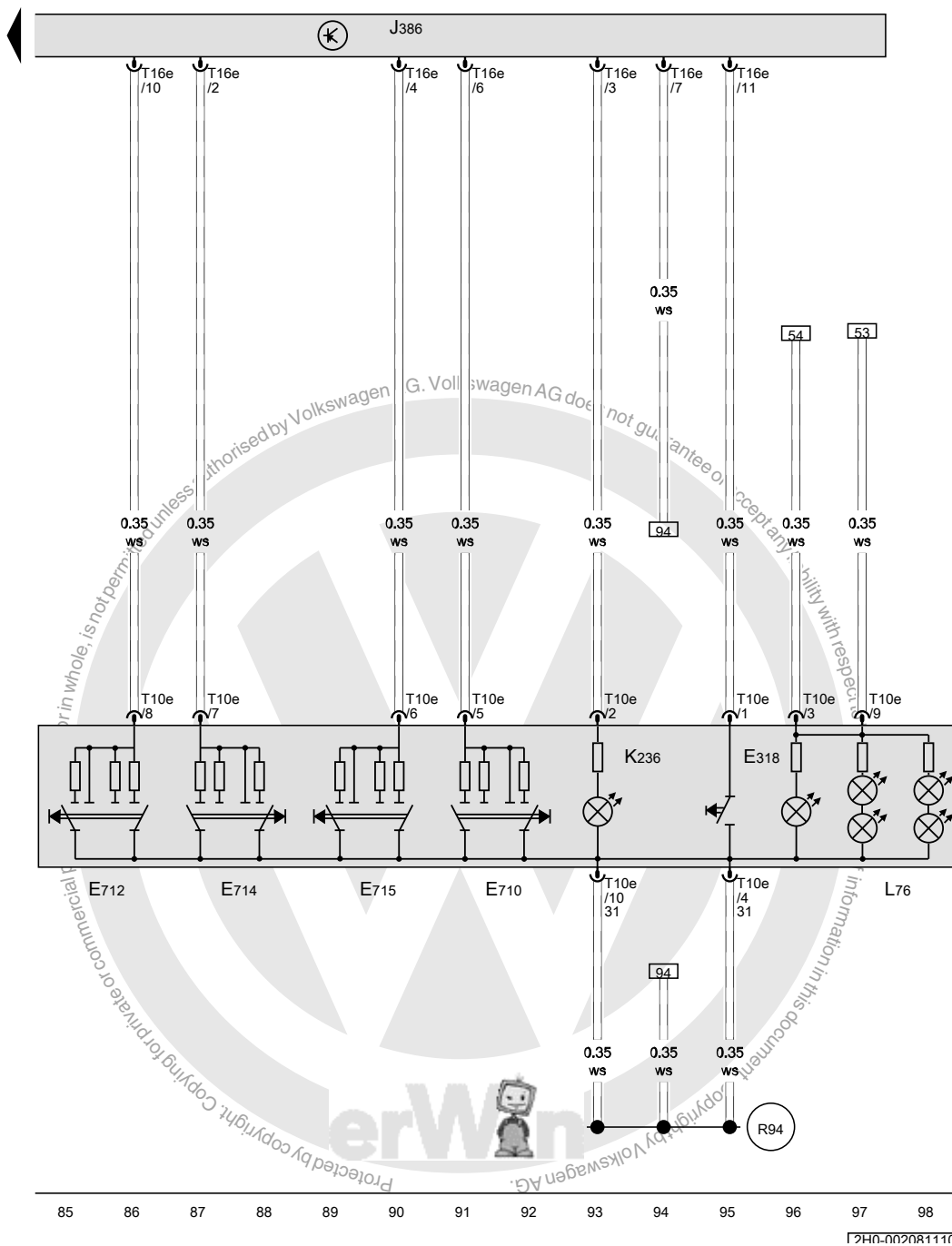
### Mirror adjustment switch, Fuse 33 on fuse holder C

- E43 Mirror adjustment switch, in driver door
- SC33 Fuse 33 on fuse holder C
- T10d 10-pin connector
- T28a 28-pin connector, on left A-pillar
- 205 Earth connection, in driver door wiring harness
- R95 Connection 2 in driver side door wiring harness
- R96 Connection 3 in driver side door wiring harness
- Z2 Connection 2, in mirror adjustment/heating wiring harness
- Z4 Positive connection (15a), in mirror adjustment/heating wiring harness



Suppression filter, Driver door control unit, Fuse 48 on fuse holder C, Left window regulator motor, Heated exterior mirror on driver side

- C10 Suppression filter, in left door
- J386 Driver door control unit
- SC48 Fuse 48 on fuse holder C
- T5o 5-pin connector
- T6ae 6-pin connector, in left door, near exterior mirror
- T16e 16-pin connector
- T28a 28-pin connector
- V14 Left window regulator motor
- V17 Driver side mirror adjustment motor
- V149 Driver side mirror adjustment motor
- Z4 Heated exterior mirror on driver side
- 205 Earth connection, in driver door wiring harness
- 740 Earth point 2 in front left door
- R95 Connection 2 in driver side door wiring harness
- R96 Connection 3 in driver side door wiring harness
- Z2 Connection 2, in mirror adjustment/heating wiring harness
- Z4 Positive connection (15a), in mirror adjustment/heating wiring harness

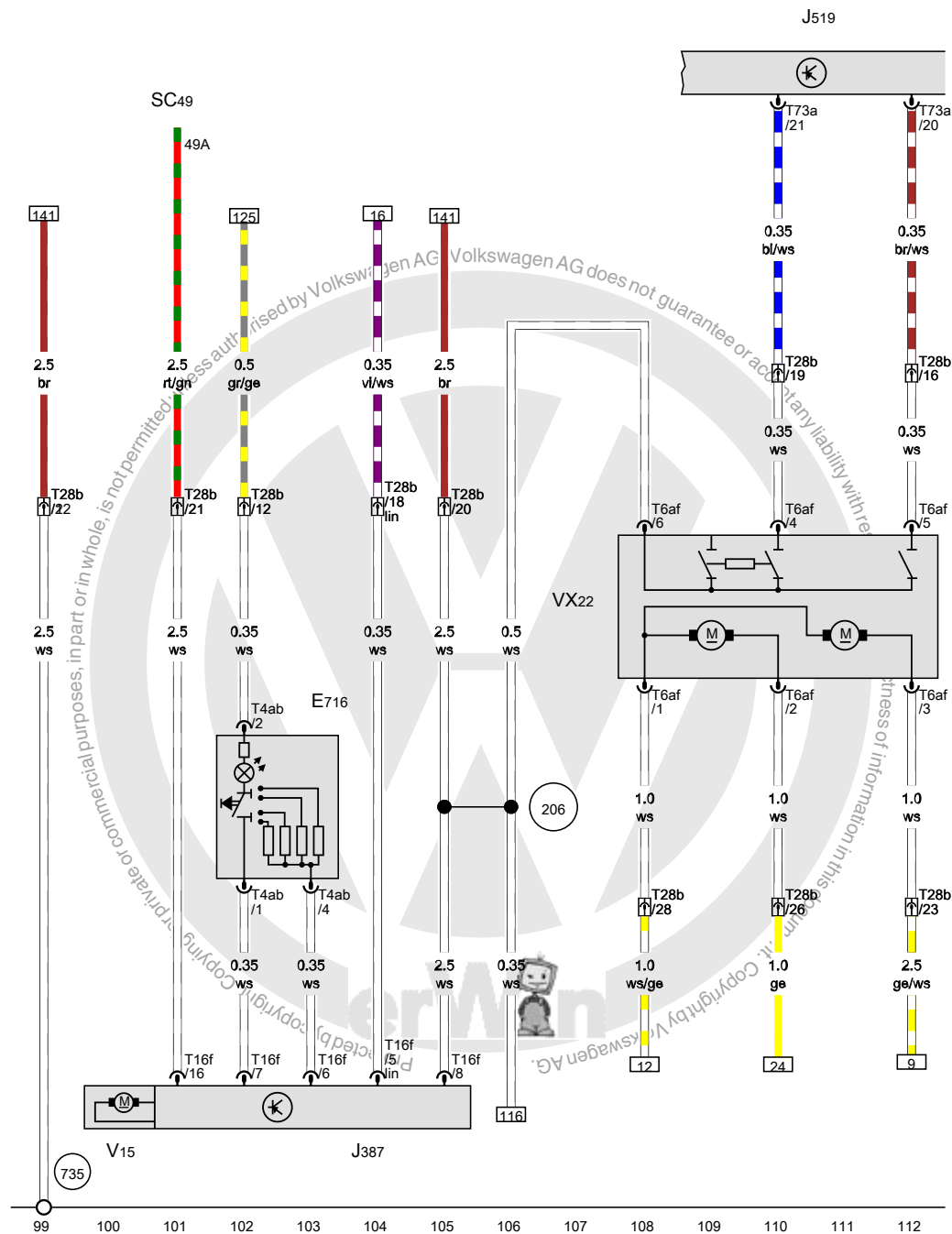


Childproof lock button, Front driver side window regulator button, Rear driver side window regulator button, in driver door, Rear passenger side window regulator button, in driver door, Front passenger side window regulator button, in driver door, Driver door control unit, Button illumination bulb

- E318 Childproof lock button
- E710 Front driver side window regulator button
- E712 Rear driver side window regulator button, in driver door
- E714 Rear passenger side window regulator button, in driver door
- E715 Front passenger side window regulator button, in driver door
- J386 Driver door control unit
- K236 Warning light for activated childproof lock
- L76 Button illumination bulb
- T10e 10-pin connector
- T16e 16-pin connector

R94 Connection 1 in driver side door wiring harness

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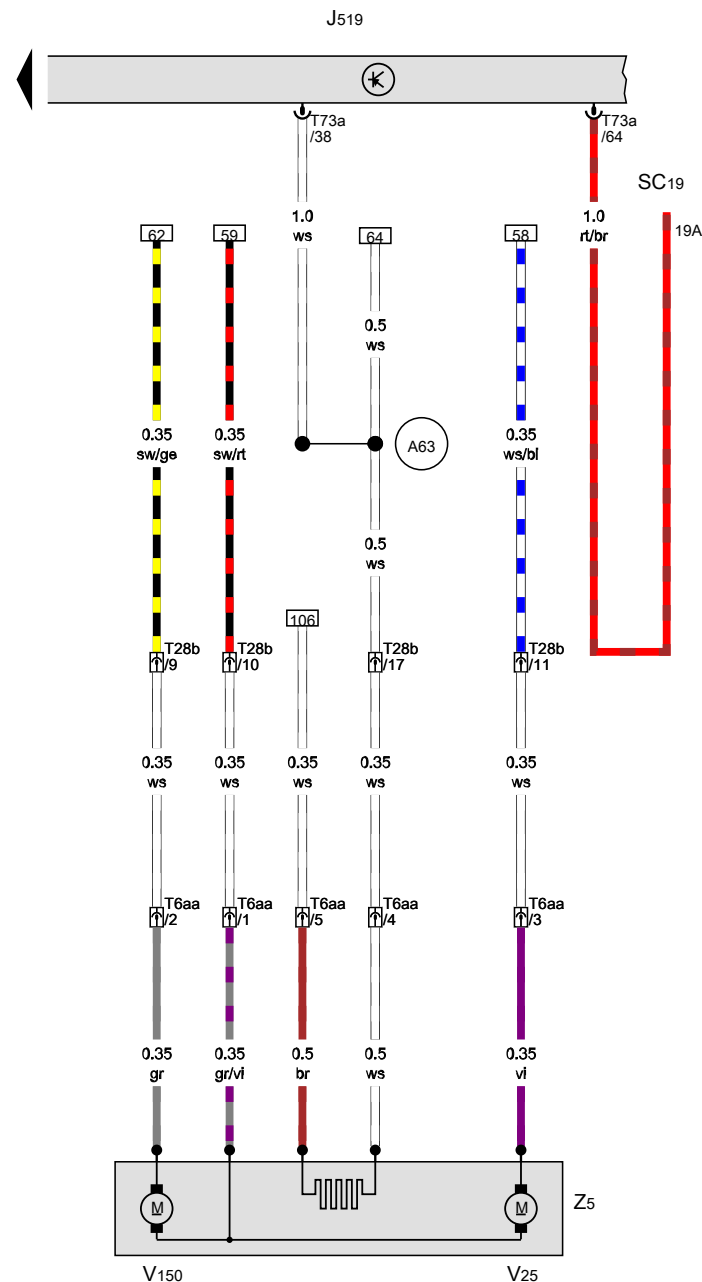


Front passenger side window regulator button, Front passenger door control unit, Fuse 49 on fuse holder C, Right window regulator motor, Front passenger door lock unit

- E716 Front passenger side window regulator button
- J387 Front passenger door control unit
- J519 Onboard supply control unit
- SC49 Fuse 49 on fuse holder C
- T4ab 4-pin connector
- T6af 6-pin connector
- T16f 16-pin connector
- T28b 28-pin connector, on right A-pillar
- T73a 73-pin connector
- V15 Right window regulator motor
- VX22 Front passenger door lock unit

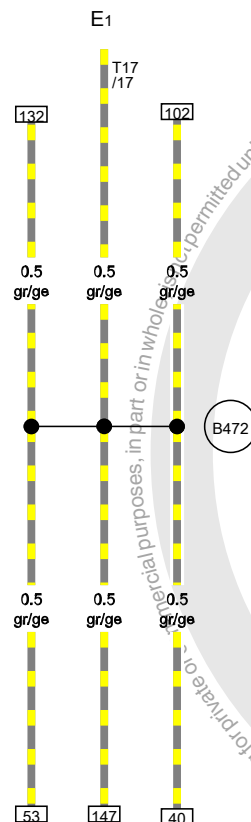
206 Earth connection, in front passenger door wiring harness

735 Earth point in front right door

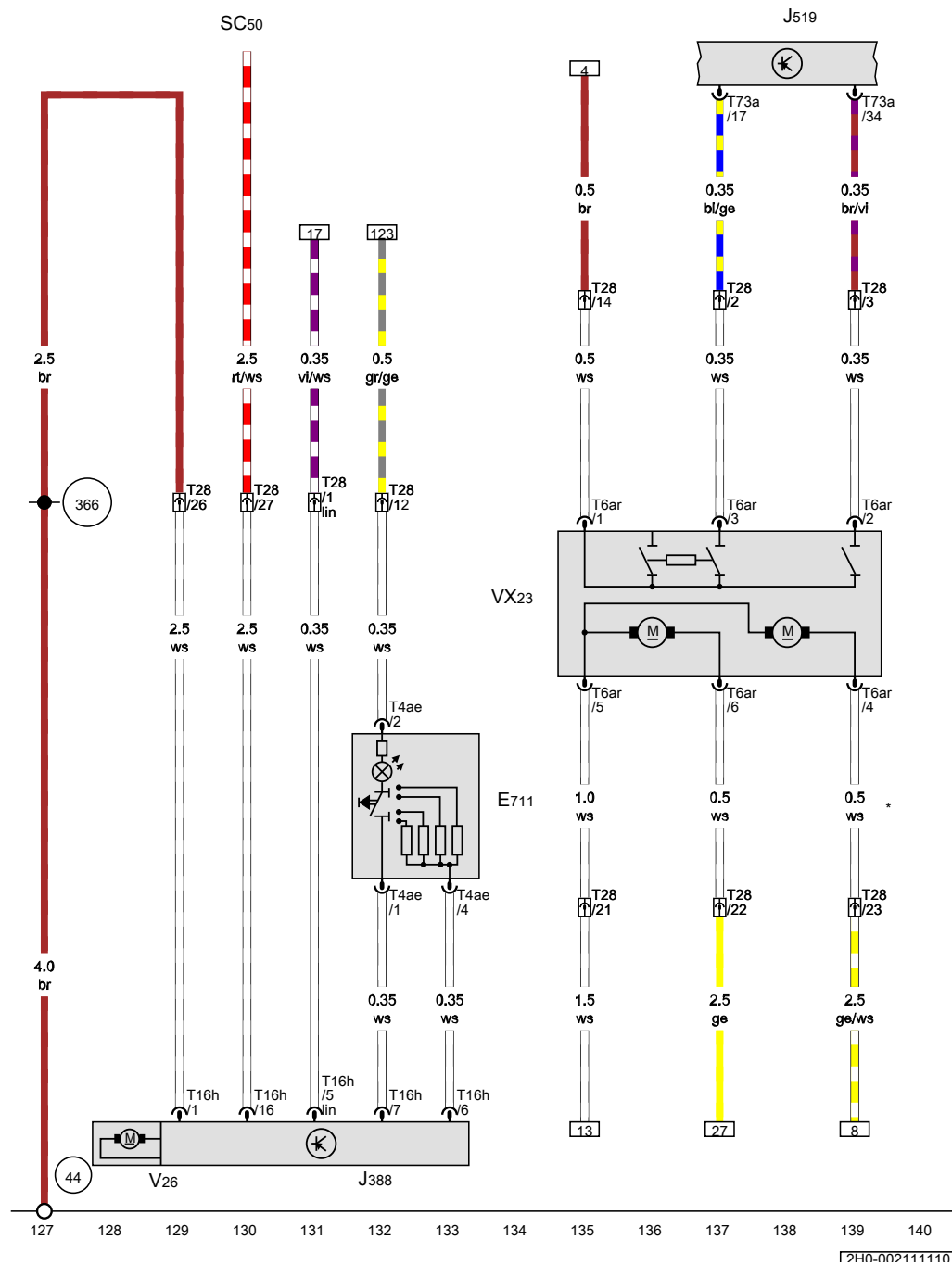


Light switch, Fuse 19 on fuse holder C, Heated exterior mirror on front passenger side

- E1 Light switch
- J519 Onboard supply control unit
- SC19 Fuse 19 on fuse holder C
- T6aa 6-pin connector, in right door, near exterior mirror
- T17 17-pin connector
- T28b 28-pin connector, on right A-pillar
- T73a 73-pin connector
- V25 Front passenger side mirror adjustment motor
- V150 Front passenger side mirror adjustment motor
- Z5 Heated exterior mirror on front passenger side
- A63 Connection (mirror adjustment/heating), in dash panel wiring harness
- B472 Connection 8, in main wiring harness



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Rear driver side window regulator button, Rear left door control unit, Onboard supply control unit, Fuse 50 on fuse holder C, Rear left door lock unit, Rear left window regulator motor

- E711 Rear driver side window regulator button, in rear left door
- J388 Rear left door control unit
- J519 Onboard supply control unit
- SC50 Fuse 50 on fuse holder C
- T4ae 4-pin connector
- T6ar 6-pin connector
- T16h 16-pin connector
- T28 28-pin connector, on left B-pillar
- T73a 73-pin connector
- VX23 Rear left door lock unit
- V26 Rear left window regulator motor

- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- \* Only models with deadlock function

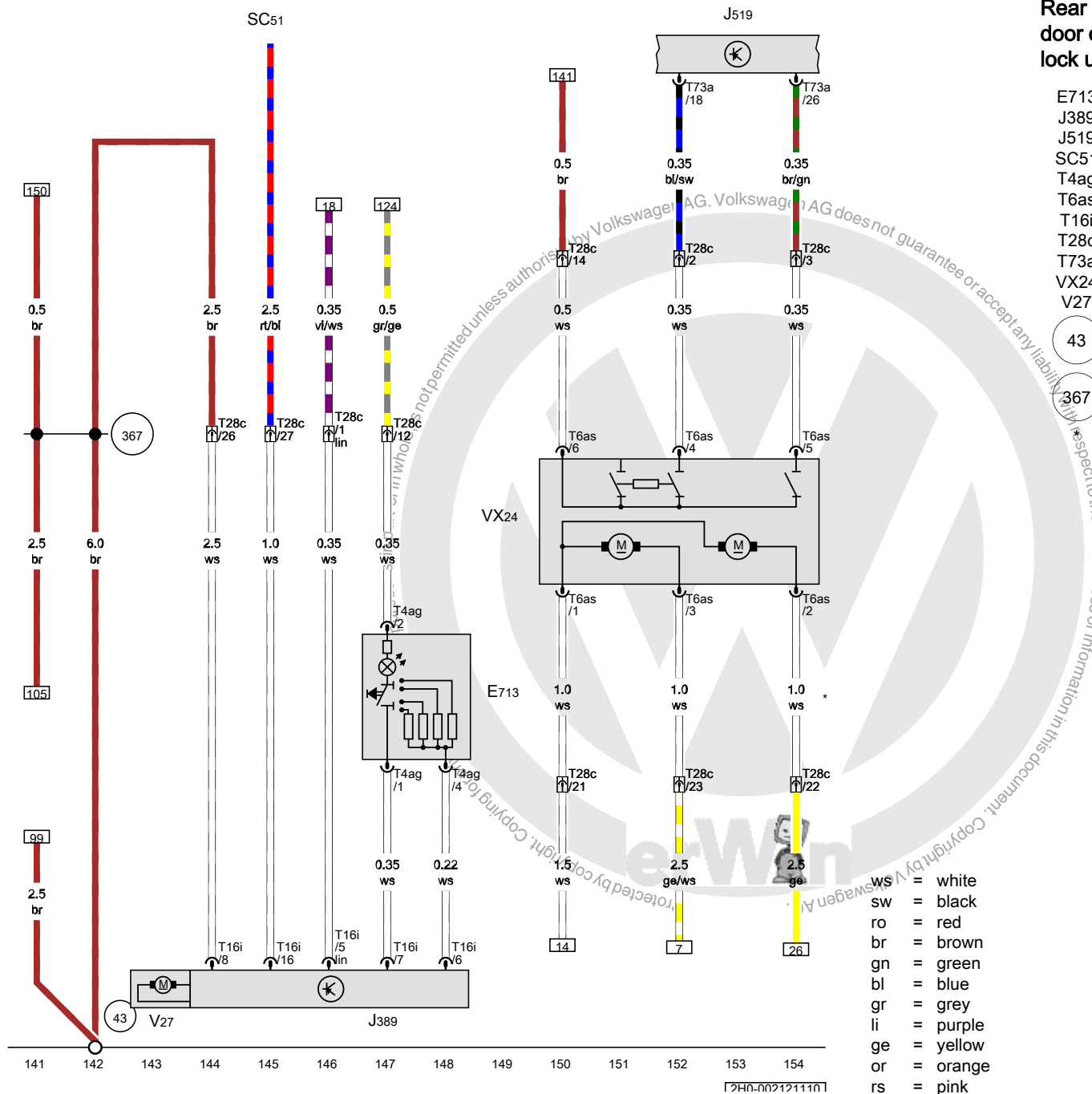
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Rear passenger side window regulator button, Rear right door control unit, Fuse 51 on fuse holder C, Rear right door lock unit, Rear right window regulator motor

- E713 Rear passenger side window regulator button, in rear right door
- J389 Rear right door control unit
- J519 Onboard supply control unit
- SC51 Fuse 51 on fuse holder C
- T4ag 4-pin connector
- T6as 6-pin connector
- T16i 16-pin connector
- T28c 28-pin connector, on right B-pillar
- T73a 73-pin connector
- VX24 Rear right door lock unit
- V27 Rear right window regulator motor

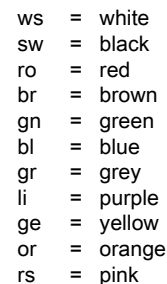
- 43 Earth point, lower part of right A-pillar
  - 367 Earth connection 2, in main wiring harness
- Only models with deadlock function



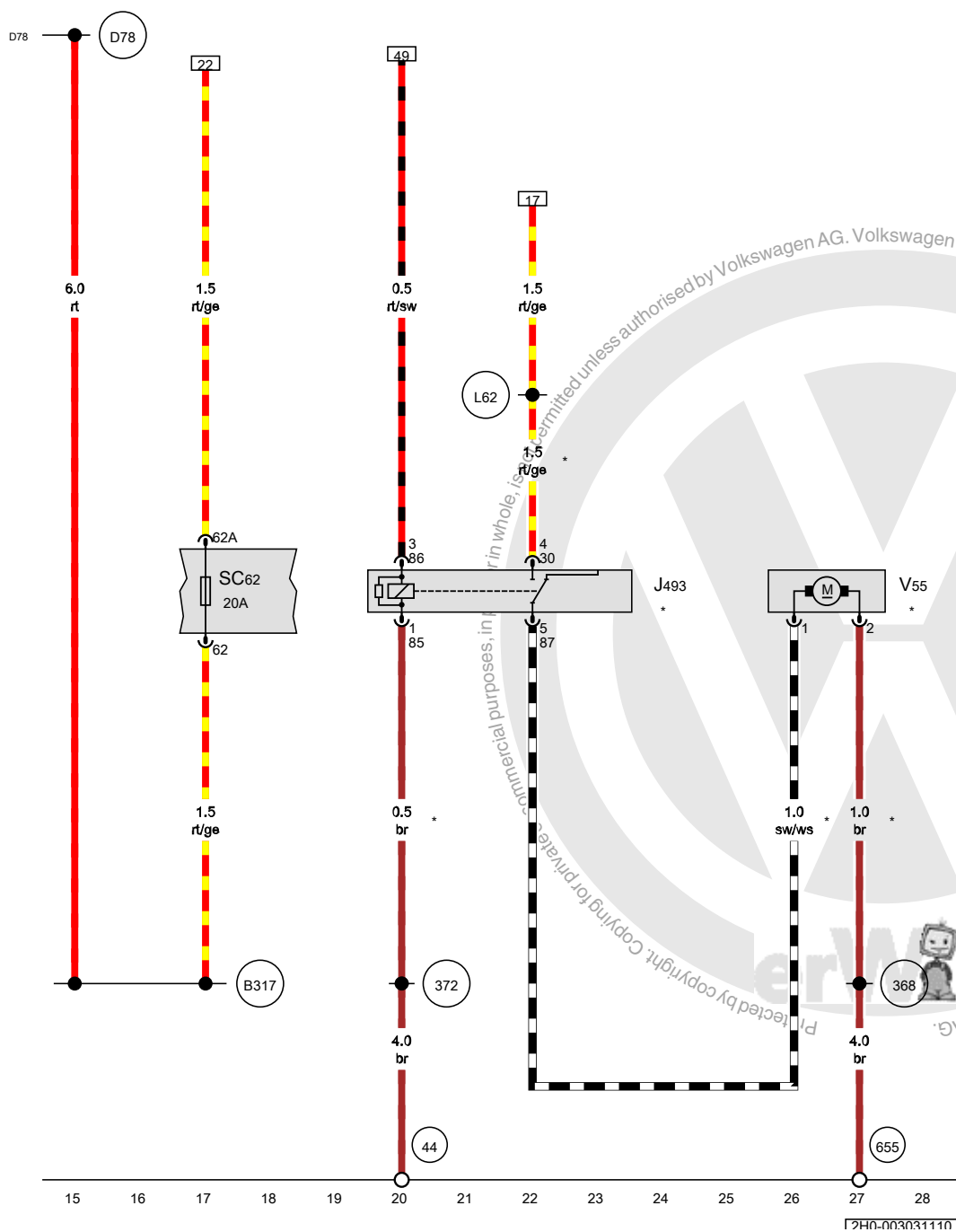
## Climatic

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- 1 Earth strap, battery - body
- A15 Positive connection (15), in instrument wiring harness
- A104 Positive connection 2 (15), in dash panel wiring harness
- B315 Positive connection 1 (30a) in main wiring harness
- B316 Positive connection 2 (30a) in main wiring harness
- B322 Positive connection 8 (30a) in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness



**Auxiliary coolant heater relay, Fuse 62 on fuse holder C, Circulation pump**

J493 Auxiliary coolant heater relay  
SC62 Fuse 62 on fuse holder C  
V55 Circulation pump

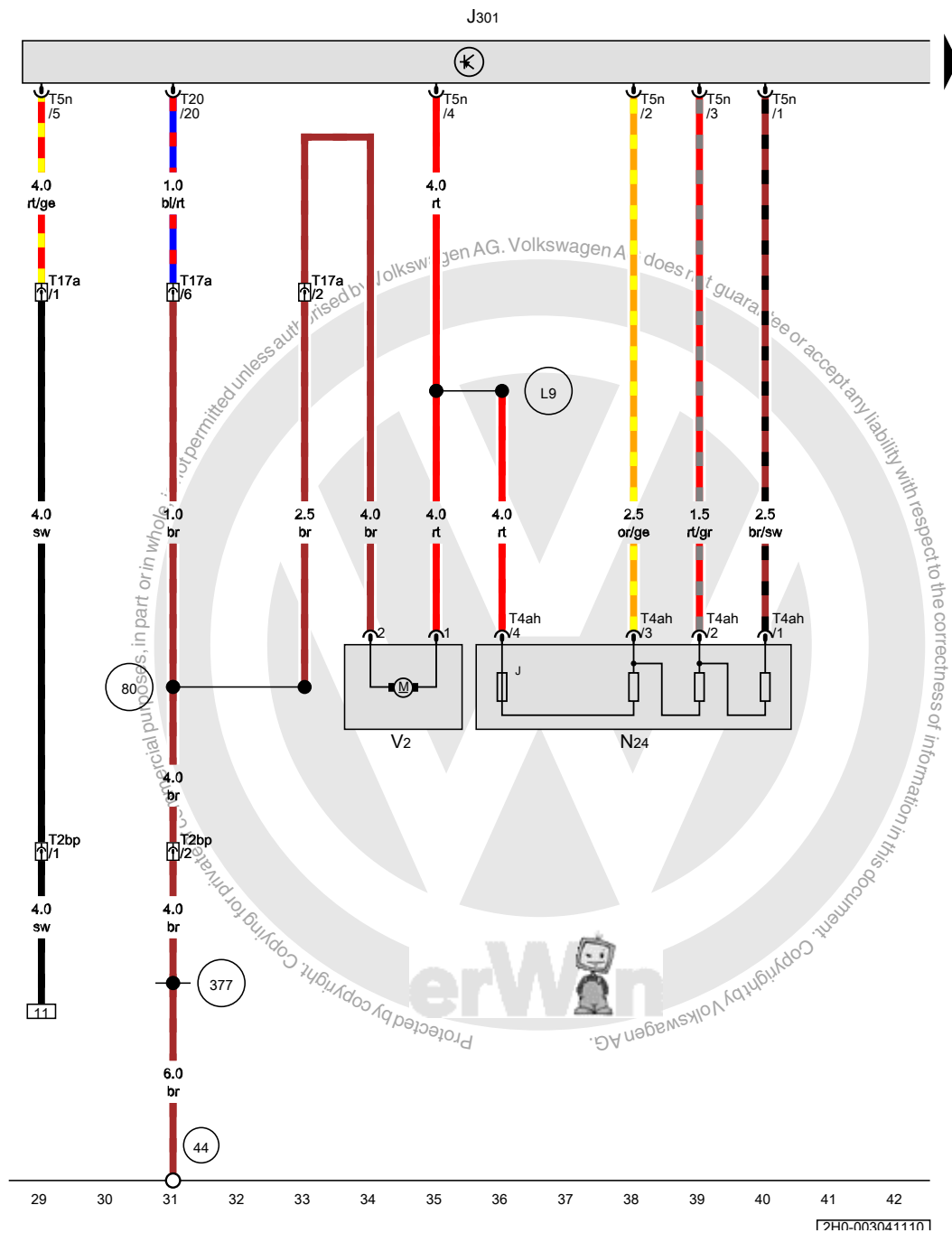
- 44 Earth point, lower part of left A-pillar
- 368 Earth connection 3, in main wiring harness
- 372 Earth connection 7, in main wiring harness
- 655 Earth point, on left headlight
- B317 Positive connection 3 (30a) in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness
- L62 Positive connection (30a), in auxiliary heater wiring harness
- \* Only models with diesel engines

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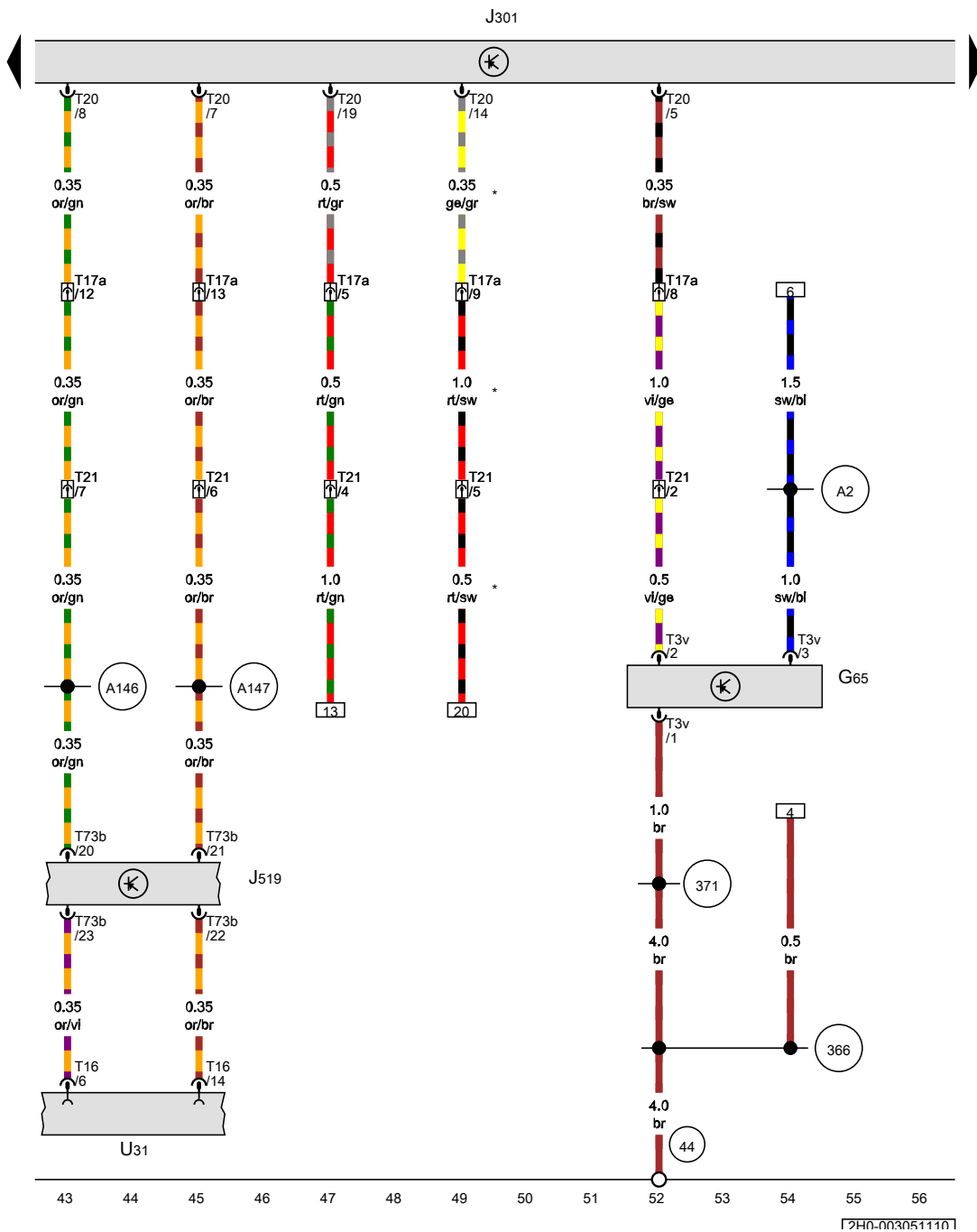
**Air conditioning system control unit, Fresh air blower series resistor with overheating fuse, Fresh air blower**

- J301 Air conditioning system control unit
- N24 Fresh air blower series resistor with overheating fuse
- T2bp 2-pin connector, in front left in footwell
- T4ah 4-pin connector
- T5n 5-pin connector
- T17a 17-pin connector, behind glove compartment
- T20 20-pin connector
- V2 Fresh air blower

- 44 Earth point, lower part of left A-pillar
- 80 Earth connection 1, in dash panel wiring harness
- 377 Earth connection 12, in main wiring harness
- L9 Connection 1, in air conditioning system wiring harness



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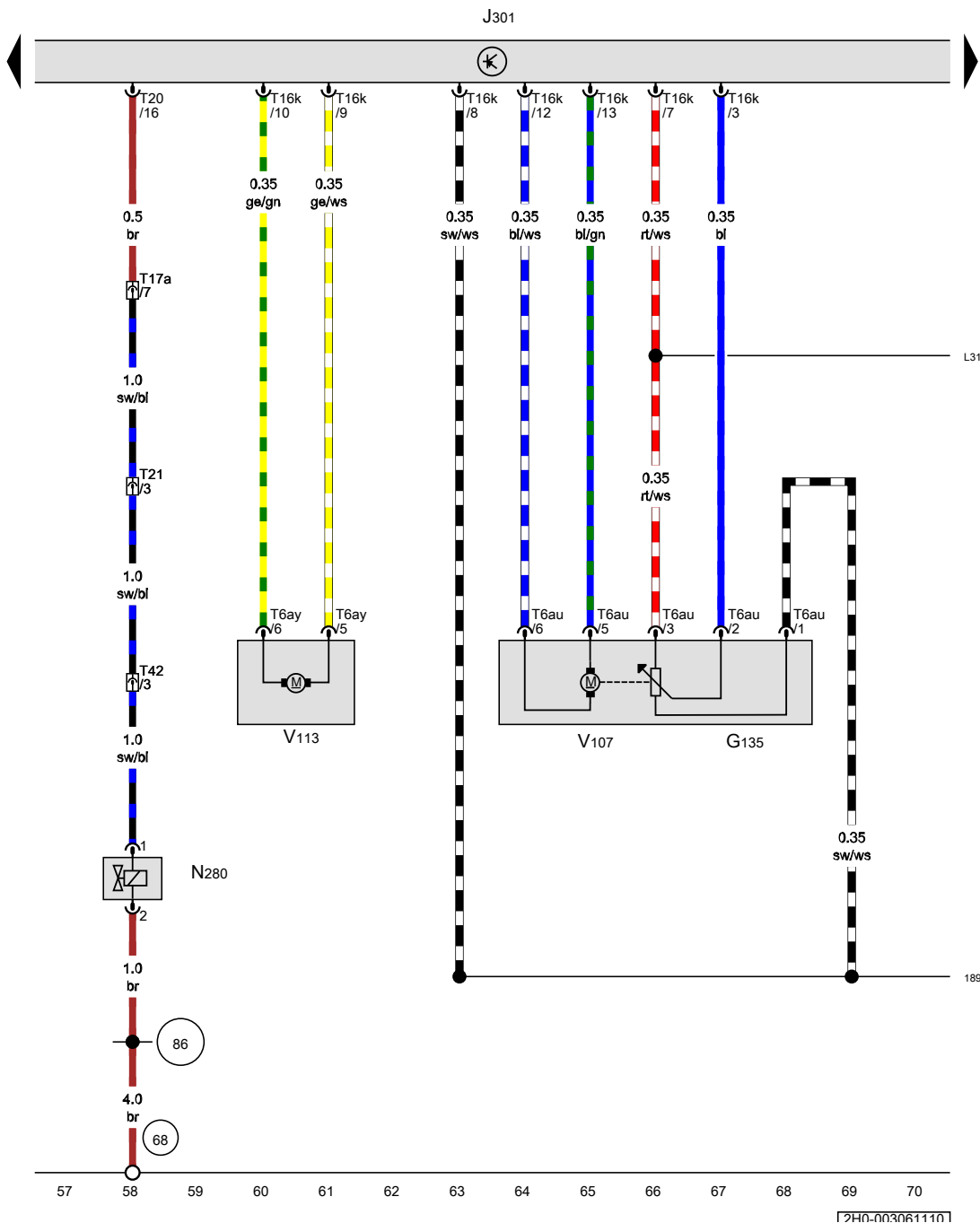


# High-pressure sender, Air conditioning system control unit, Onboard supply control unit

- G65 High-pressure sender
- J301 Air conditioning system control unit
- J519 Onboard supply control unit
- T3v 3-pin connector
- T16 16-pin connector
- T17a 17-pin connector, behind glove compartment
- T20 20-pin connector
- T21 21-pin connector, on relay carrier
- T73b 73-pin connector
- U31 Diagnostic connection

- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- 371 Earth connection 6, in main wiring harness
- A2 Positive connection (15), in dash panel wiring harness
- A146 Connection (convenience CAN bus, high), in dash panel wiring harness
- A147 Connection (convenience CAN bus, low), in dash panel wiring harness
- \* Only models with diesel engines

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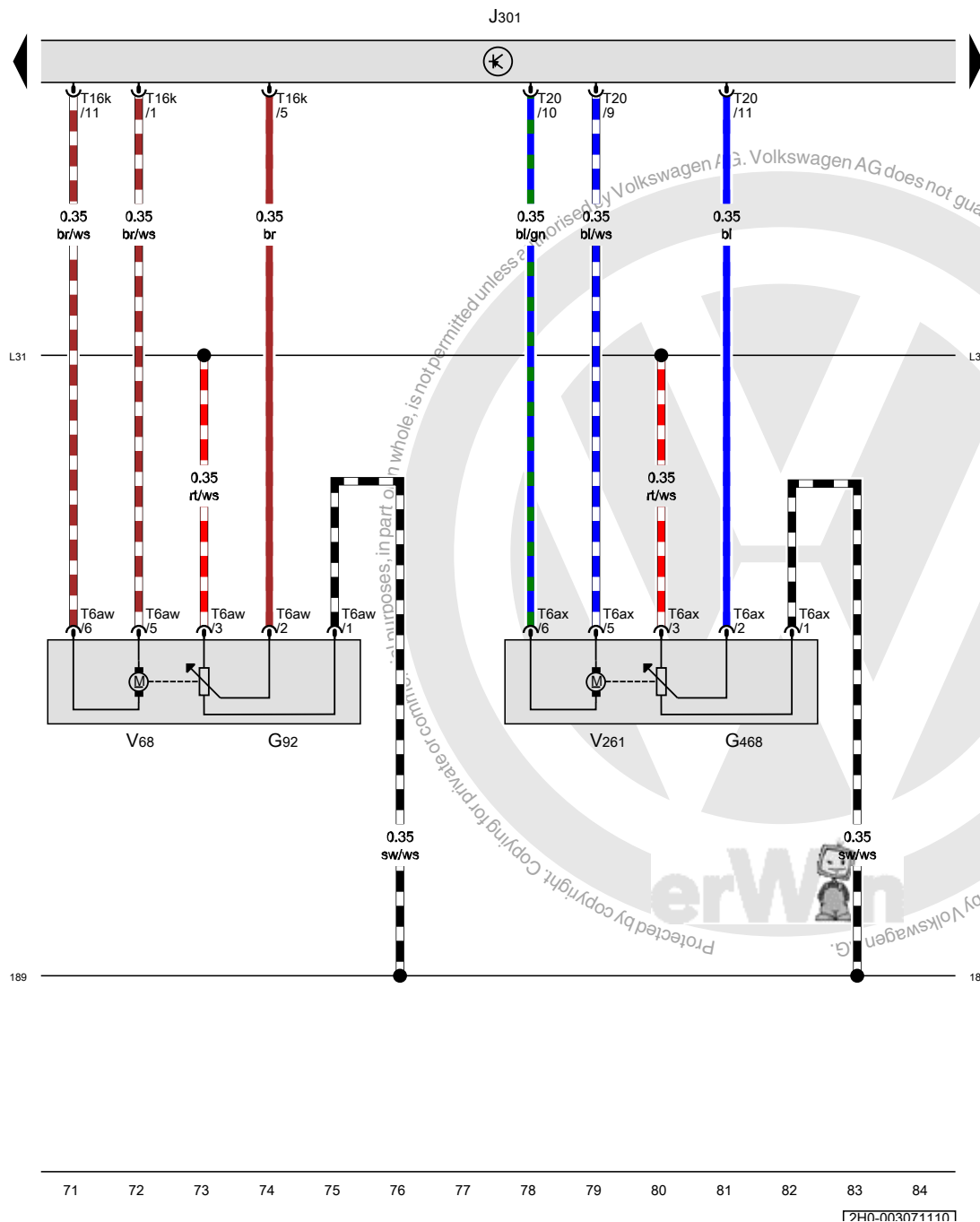


Potentiometer for defroster flap control motor, Air conditioning system control unit, Air conditioner compressor regulating valve, Defroster flap control motor, Air recirculation flap control motor

- G135 Potentiometer for defroster flap control motor
- J301 Air conditioning system control unit
- N280 Air conditioner compressor regulating valve
- T6au 6-pin connector
- T6ay 6-pin connector
- T16k 16-pin connector
- T17a 17-pin connector, behind glove compartment
- T20 20-pin connector
- T21 21-pin connector, on relay carrier
- T42 42-pin connector, near handbrake lever
- V107 Defroster flap control motor
- V113 Air recirculation flap control motor

- 68 Earth point, on left of rear cross member
- 86 Earth connection 1, in rear wiring harness
- 189 Earth connection 1, in heater wiring harness
- L31 Connection (5V), in air conditioning system wiring harness

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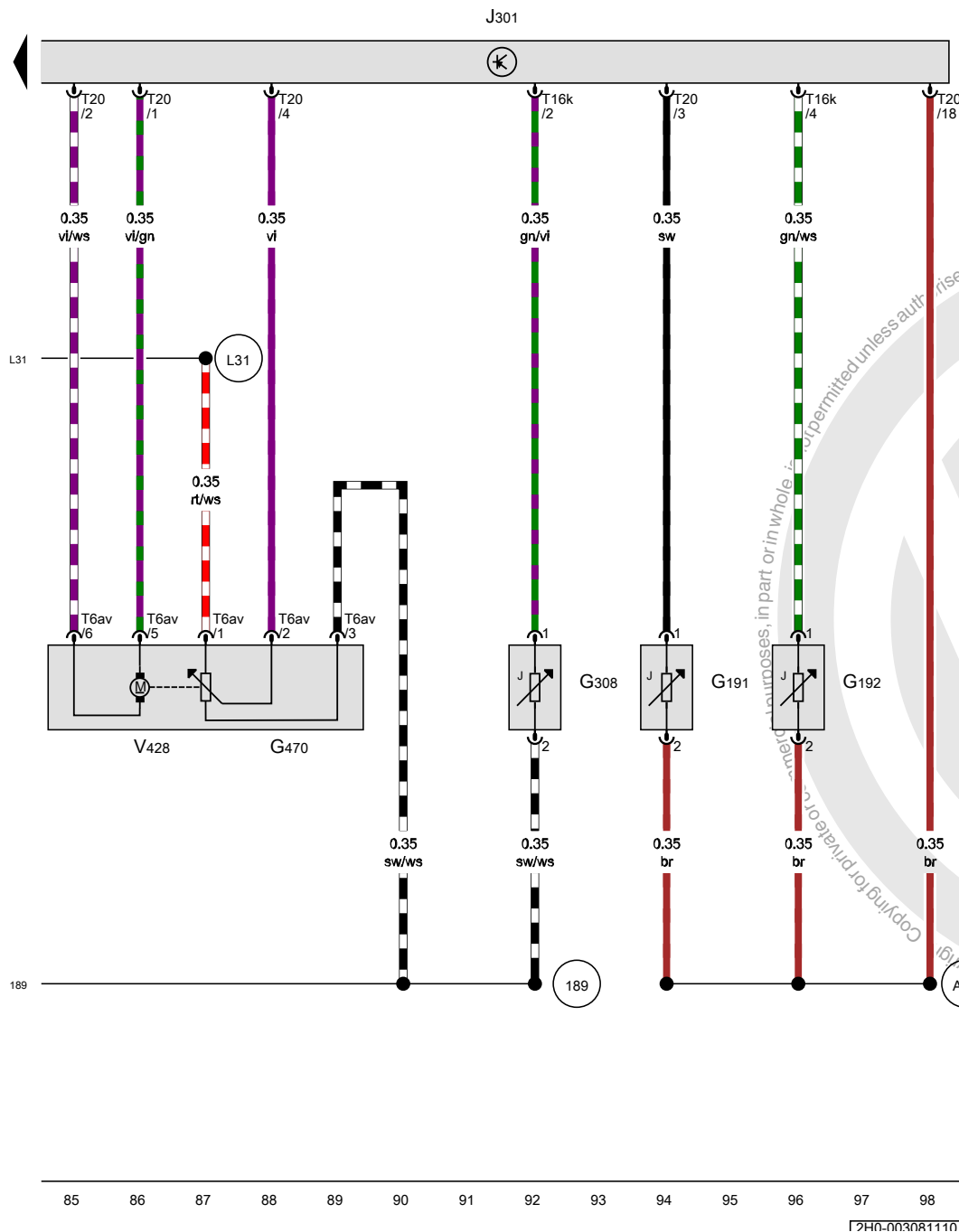


Potentiometer for temperature flap control motor, Potentiometer for footwell vent control motor, Air conditioning system control unit, Temperature flap control motor, Footwell flap control motor

- G92 Potentiometer for temperature flap control motor
- G468 Potentiometer for footwell vent control motor
- J301 Air conditioning system control unit
- T6aw 6-pin connector
- T6ax 6-pin connector
- T16k 16-pin connector
- T20 20-pin connector
- V68 Temperature flap control motor
- V261 Footwell flap control motor

- 189 Earth connection 1, in heater wiring harness
- L31 Connection (5V), in air conditioning system wiring harness





Centre vent temperature sender, Footwell vent temperature sender, Evaporator temperature sensor, Potentiometer for front air distribution control motor, Air conditioning system control unit, Air distribution flap control motor

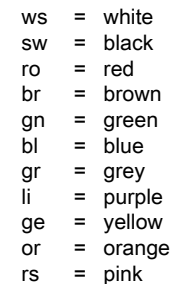
- G191 Centre vent temperature sender
- G192 Footwell vent temperature sender
- G308 Evaporator temperature sensor
- G470 Potentiometer for front air distribution control motor
- J301 Air conditioning system control unit
- T6av 6-pin connector
- T16k 16-pin connector
- T20 20-pin connector
- V428 Air distribution flap control motor
- 189 Earth connection 1, in heater wiring harness
- A69 Connection (31, air conditioning system/blower control), in dash panel wiring harness
- L31 Connection (5V), in air conditioning system wiring harness

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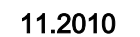
## Anti-lock brake system (ABS) with electronic differential lock (EDL) and traction control system (TCS)

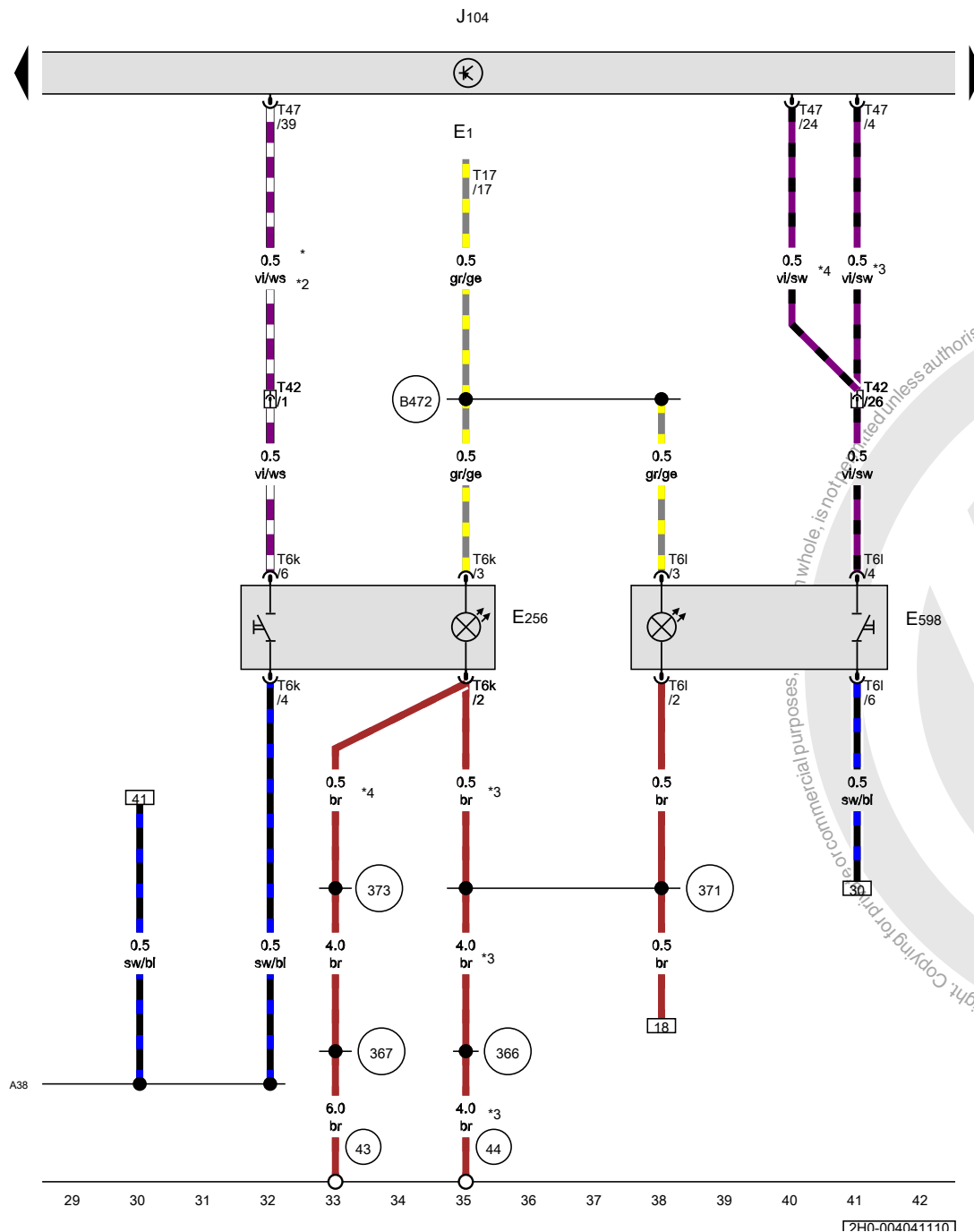
From December 2009





- |      |   |
|------|---|
| A    | Battery   |
| J104 | ABS control unit  |
| J519 | Onboard supply control unit                                       |
| SB1  | Fuse 1 on fuse holder B   |
| SA2  | Fuse 2 in fuse holder A   |
| SB3  | Fuse 3 on fuse holder B   |
| SB4  | Fuse 4 on fuse holder B   |
| SC20 | Fuse 20 on fuse holder C  |
| T18a | 18-pin connector, near engine control unit                        |
| T47  | 47-pin connector  |
| T73b | 73-pin connector  |
| 1    | Earth strap, battery - body                                       |
| 12   | Earth point, on left in engine compartment                        |
| 44   | Earth point, lower part of left A-pillar                          |
| 372  | Earth connection 7, in main wiring harness                        |
| B317 | Positive connection 3 (30a) in main wiring harness                |
| D78  | Positive connection 1 (30a), in engine compartment wiring harness |

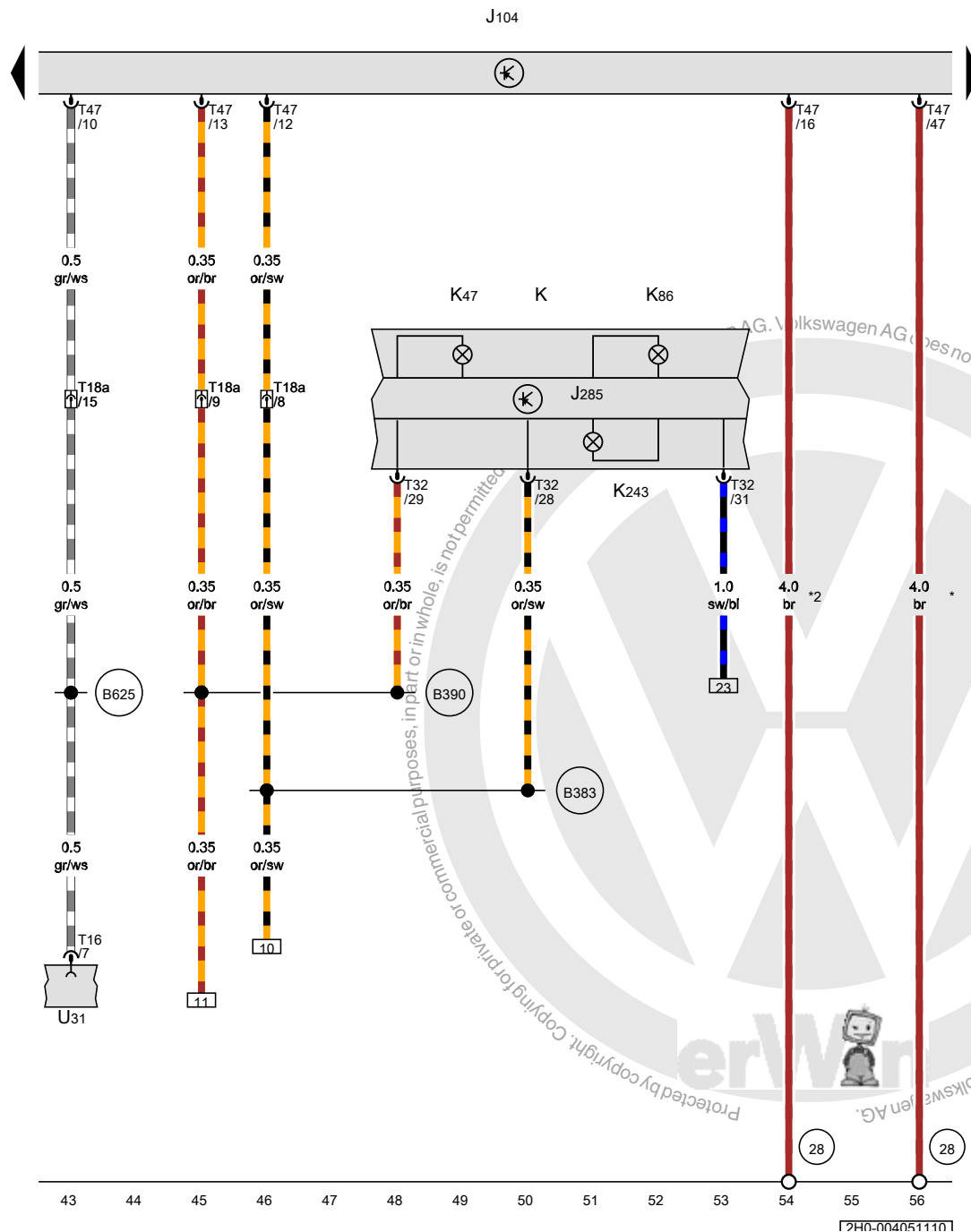




# TCS and ESP button, Driving program button, ABS control unit

- E1 Light switch
- E256 TCS and ESP button
- E598 Driving program button
- J104 ABS control unit
- T6k 6-pin connector
- T6l 6-pin connector
- T17 17-pin connector
- T42 42-pin connector
- T47 47-pin connector

- 43 Earth point, lower part of right A-pillar
- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- 367 Earth connection 2, in main wiring harness
- 371 Earth connection 6, in main wiring harness
- 373 Earth connection 8, in main wiring harness
- A38 Positive connection 2 (15a) in dash panel wiring harness
- B472 Connection 8, in main wiring harness
- \* with auxiliary drive (part time)
- \*2 with no auxiliary drive
- \*3 Only models with electronic stabilisation program (ESP)
- \*4 Only models with anti-lock brake system (ABS), traction control system (TCS) and electronic differential lock (EDL)

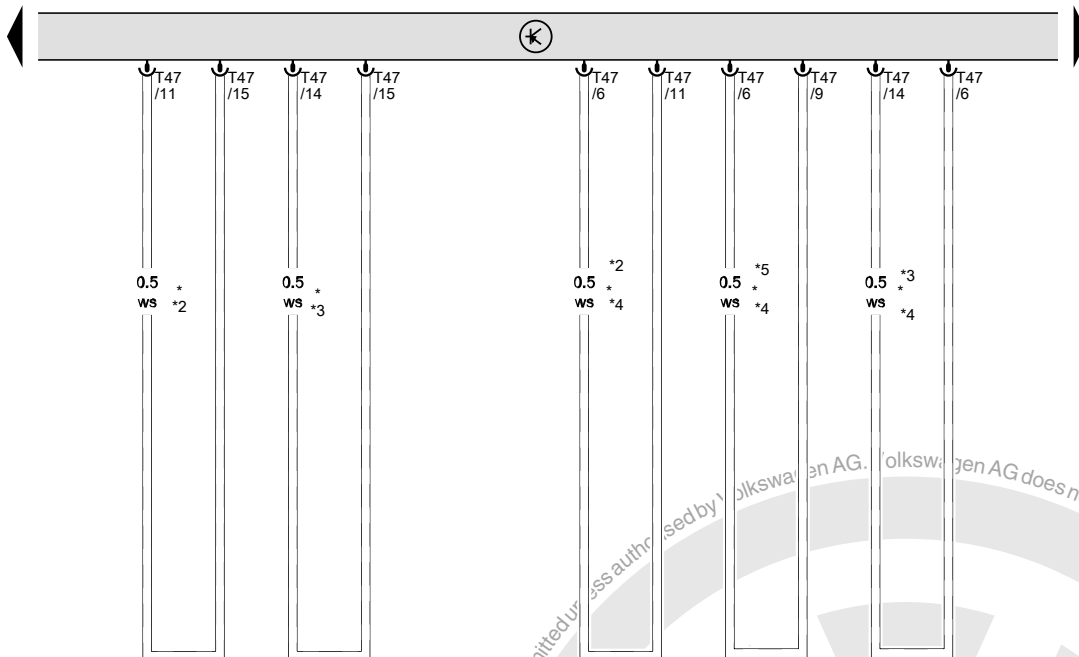


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ABS control unit, Dash panel insert, ABS warning lamp, Traction control system warning lamp, Driving program warning light, Diagnostic connection

- J104 ABS control unit
- J285 Control unit in dash panel insert
- K Dash panel insert
- K47 ABS warning lamp
- K86 Traction control system warning lamp
- K243 Driving program warning light
- T16 16-pin connector
- T18a 18-pin connector, near engine control unit
- T32 32-pin connector
- T47 47-pin connector
- U31 Diagnostic connection
- 28 Earth point, on bulkhead
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- B625 Connection (K-diagnosis wire), in main wiring harness
- \* Only models with anti-lock brake system (ABS), traction control system (TCS) and electronic differential lock (EDL)
- \*2 Only models with electronic stabilisation program (ESP)

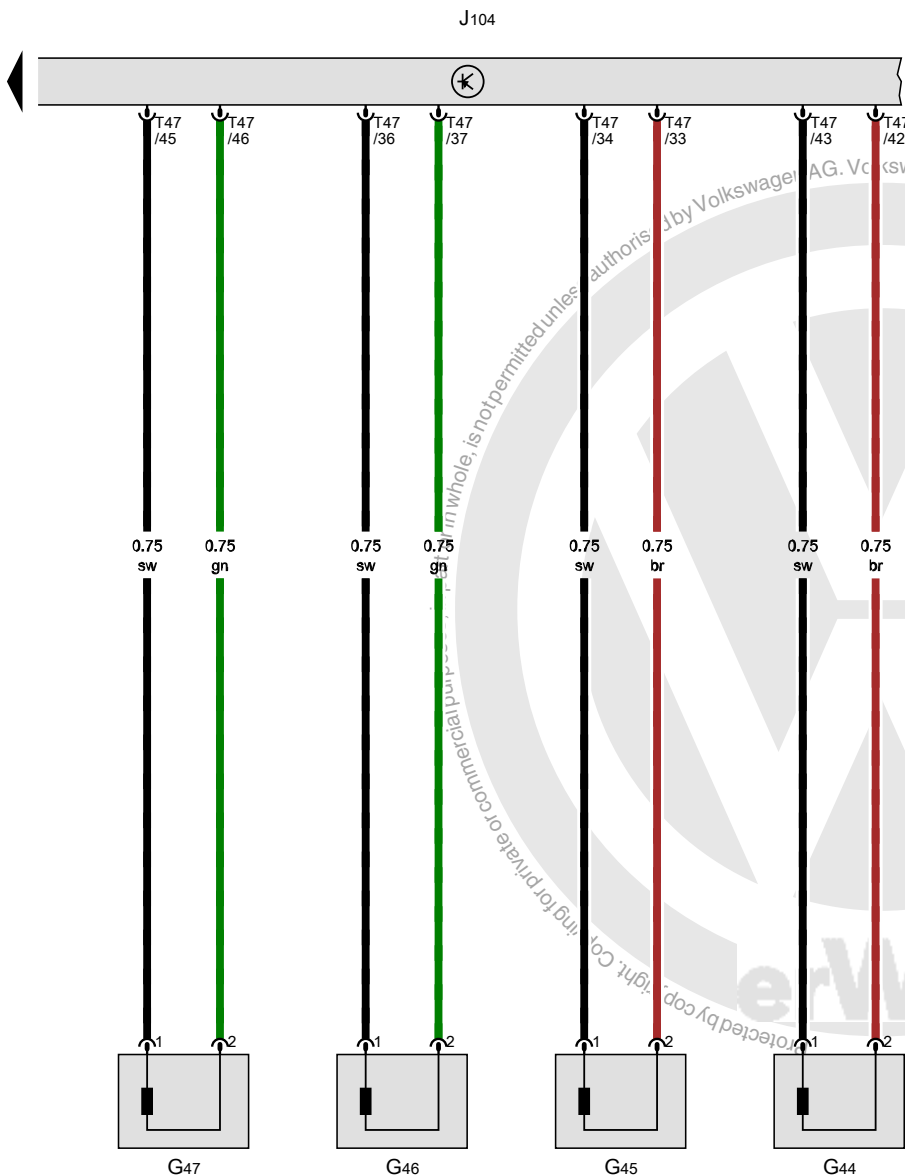
J104



### ABS control unit

- J104 ABS control unit
- T47 47-pin connector
- \* Only models with anti-lock brake system (ABS), traction control system (TCS) and electronic differential lock (EDL) with no auxiliary drive
- \*2 with auxiliary drive (part time)
- \*3 Only models with double cab
- \*4 with auxiliary drive (Torsen)
- \*5

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Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit

- G44 Rear right speed sensor
- G45 Front right speed sensor
- G46 Rear left speed sensor
- G47 Front left speed sensor
- J104 ABS control unit
- T47 47-pin connector

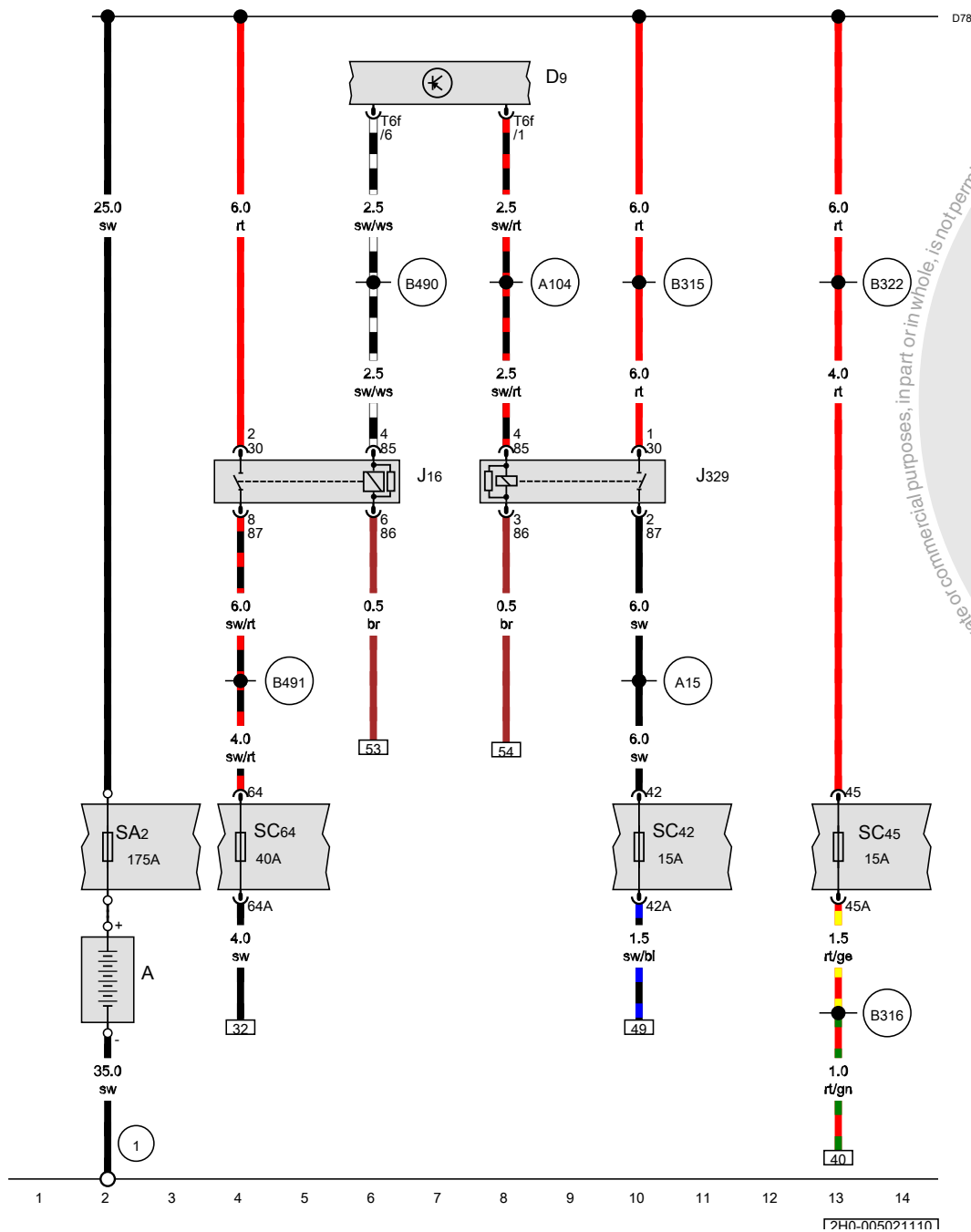
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**Climatronic**

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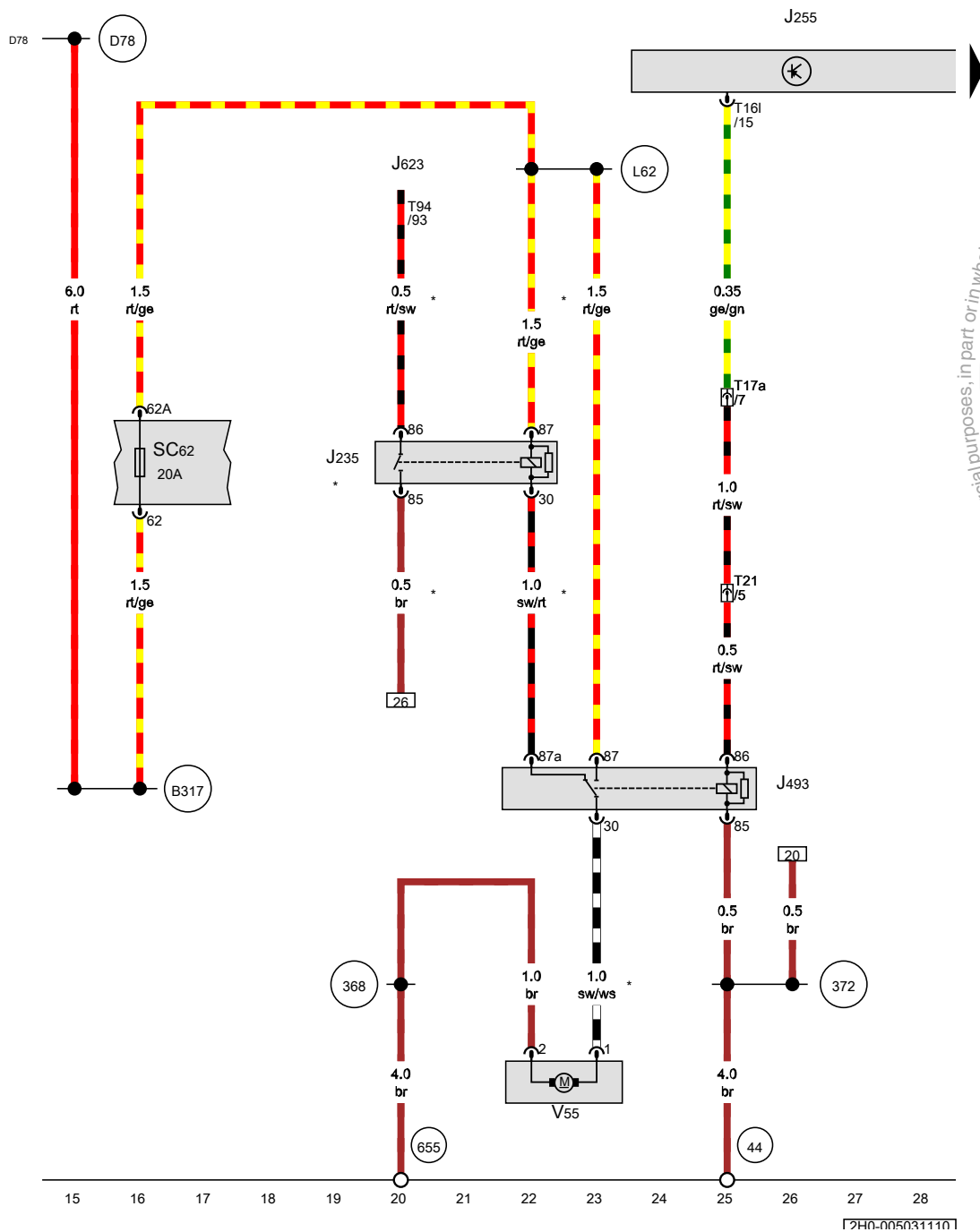




Battery, Fuse 2 in fuse holder A, Fuse 42 on fuse holder C, Fuse 45 on fuse holder C, Fuse 64 on fuse holder C

- A Battery
- D9 Electronic ignition lock
- J16 Current supply relay
- J329 Terminal 15 voltage supply relay
- SA2 Fuse 2 in fuse holder A
- SC42 Fuse 42 on fuse holder C
- SC45 Fuse 45 on fuse holder C
- SC64 Fuse 64 on fuse holder C
- T6f 6-pin connector
- 1 Earth strap, battery - body
- A15 Positive connection (15), in instrument wiring harness
- A104 Positive connection 2 (15), in dash panel wiring harness
- B315 Positive connection 1 (30a) in main wiring harness
- B316 Positive connection 2 (30a) in main wiring harness
- B322 Positive connection 8 (30a) in main wiring harness
- B490 Connection 26, in main wiring harness
- B491 Positive connection (75), in interior wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness

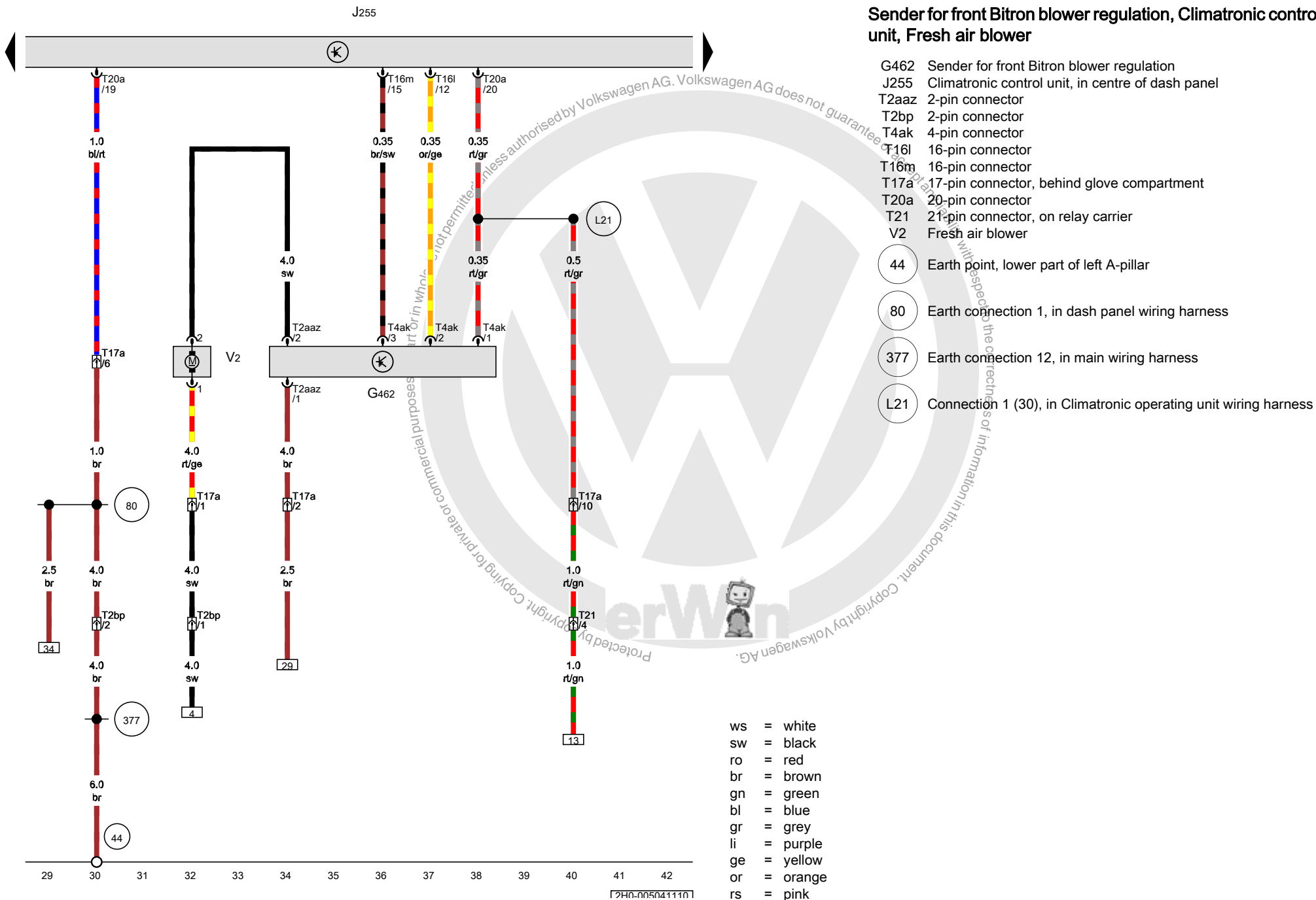
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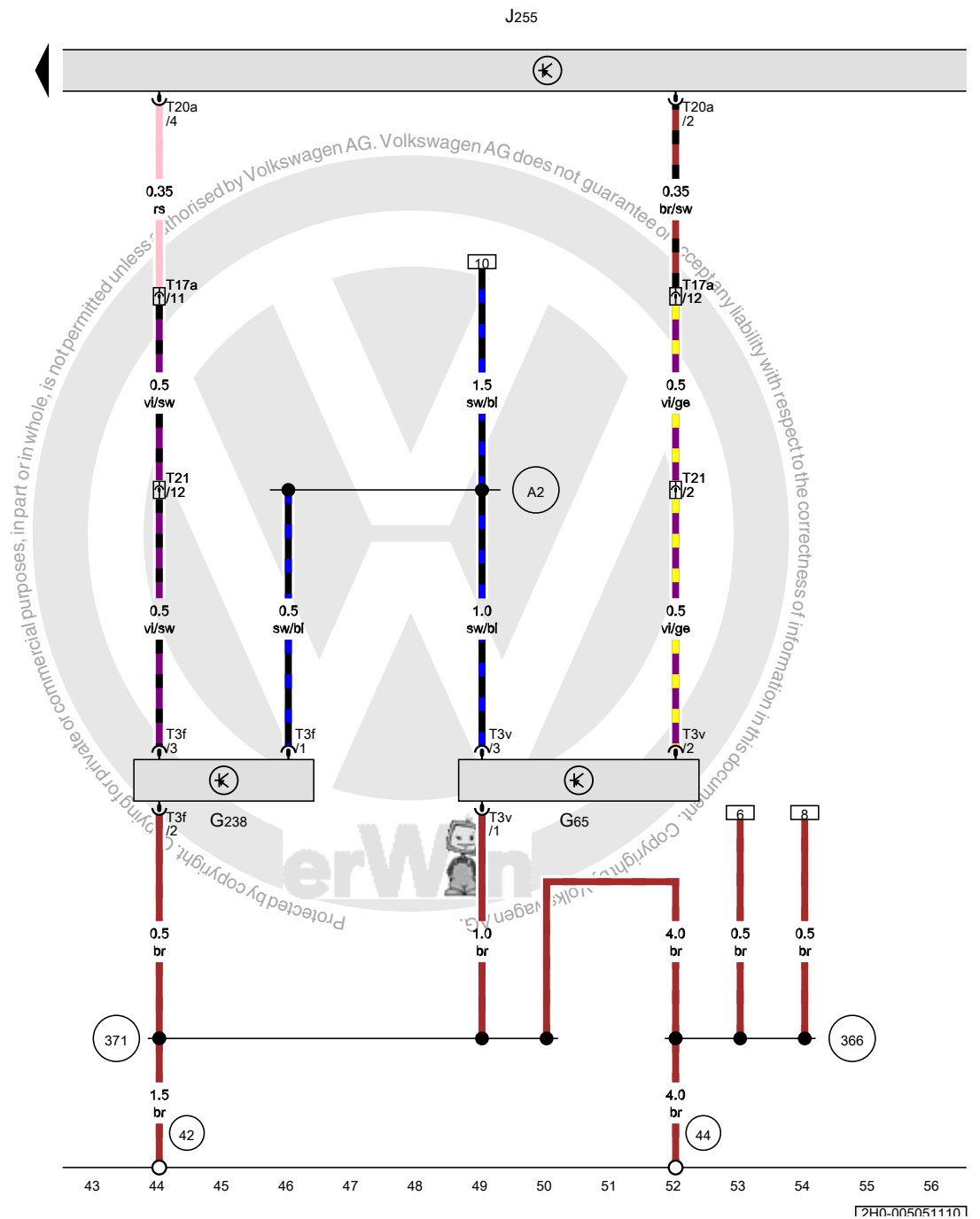


## Climatron control unit, Fuse 62 on fuse holder C, Circulation pump

- J235 Coolant pump relay
- J255 Climatron control unit, in centre of dash panel
- J493 Auxiliary coolant heater relay
- J623 Engine control unit
- SC62 Fuse 62 on fuse holder C
- T161 16-pin connector
- T17a 17-pin connector, behind glove compartment
- T21 21-pin connector, on relay carrier
- T94 94-pin connector
- V55 Circulation pump
- 44 Earth point, lower part of left A-pillar
- 368 Earth connection 3, in main wiring harness
- 372 Earth connection 7, in main wiring harness
- 655 Earth point, on left headlight
- B317 Positive connection 3 (30a) in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness
- L62 Positive connection (30a), in auxiliary heater wiring harness
- \* Only models with petrol engine

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 or = orange  
 rs = pink

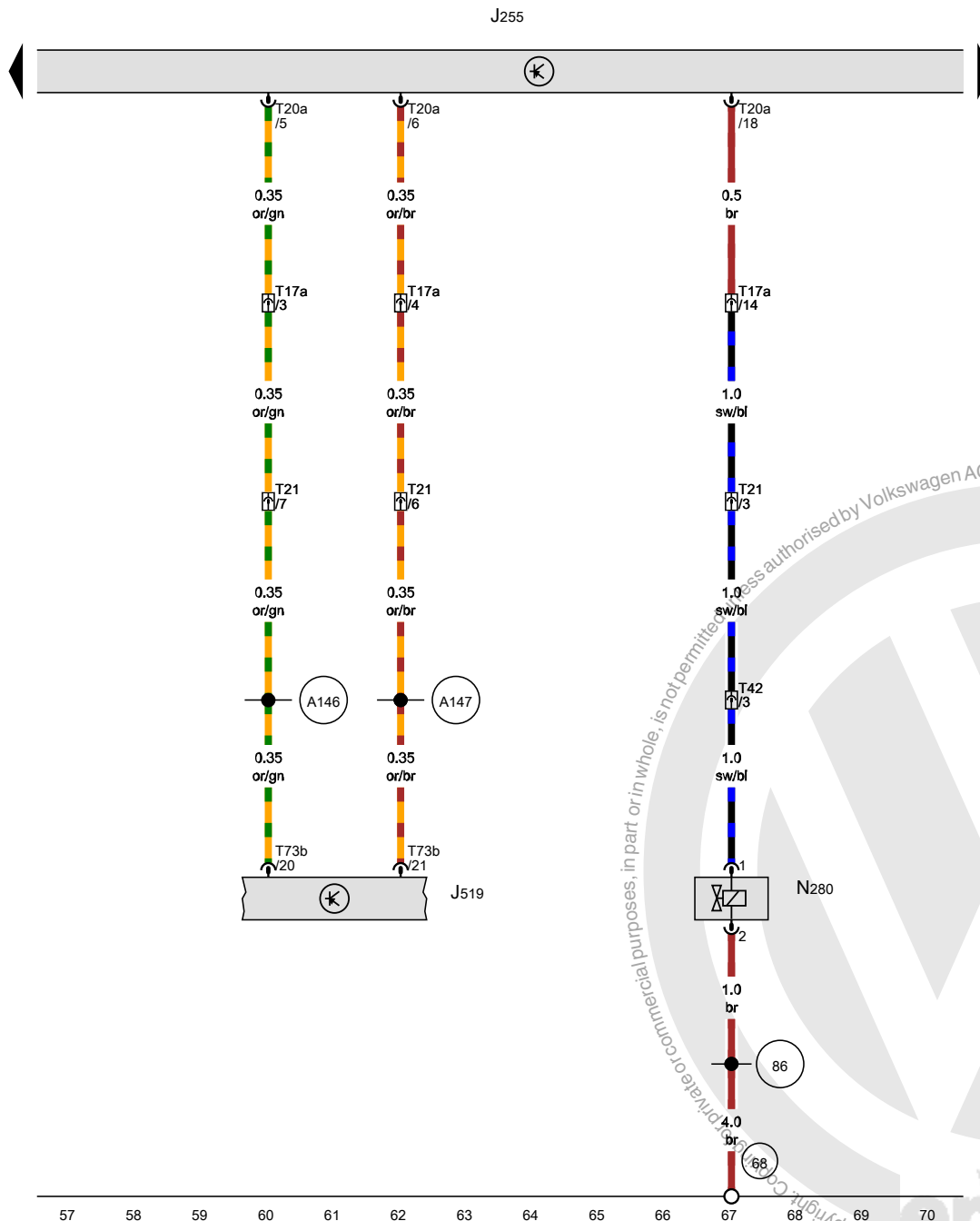




### High-pressure sender, Air quality sensor, Climatronic control unit

- G65 High-pressure sender
- G238 Air quality sensor, near window wiper motor
- J255 Climatronic control unit, in centre of dash panel
- T3f 3-pin connector
- T3v 3-pin connector
- T17a 17-pin connector, behind glove compartment
- T20a 20-pin connector
- T21 21-pin connector, on relay carrier
- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- 371 Earth connection 6, in main wiring harness
- A2 Positive connection (15), in dash panel wiring harness

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



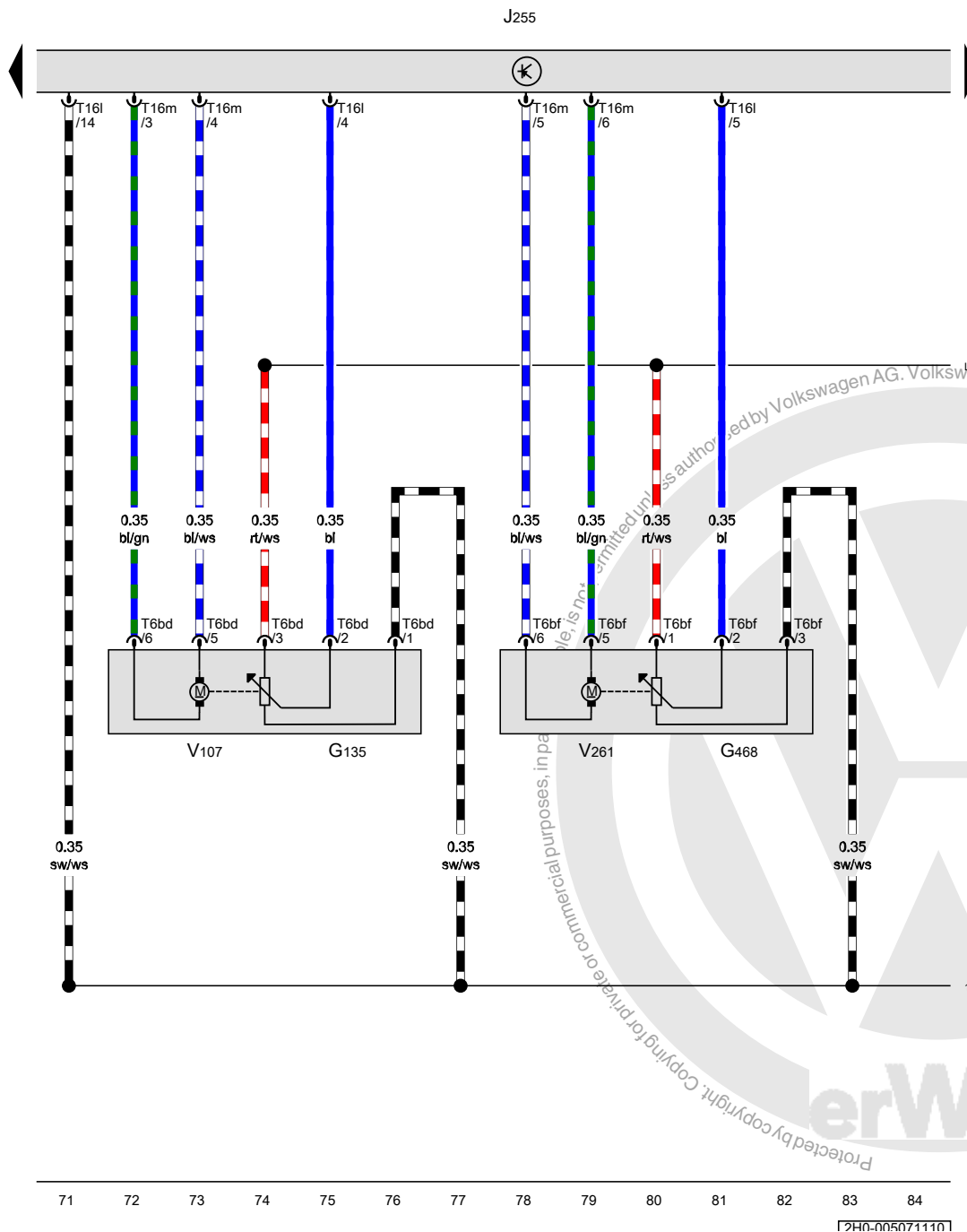
**Climatronic control unit, Onboard supply control unit, Air conditioner compressor regulating valve**

- J255 Climatronic control unit, in centre of dash panel
- J519 Onboard supply control unit
- N280 Air conditioner compressor regulating valve
- T17a 17-pin connector, behind glove compartment
- T20a 20-pin connector
- T21 21-pin connector, on relay carrier
- T42 42-pin connector, near handbrake lever
- T73b 73-pin connector

- 68 Earth point, on left of rear cross member
- 86 Earth connection 1, in rear wiring harness
- A146 Connection (convenience CAN bus, high), in dash panel wiring harness
- A147 Connection (convenience CAN bus, low), in dash panel wiring harness

- 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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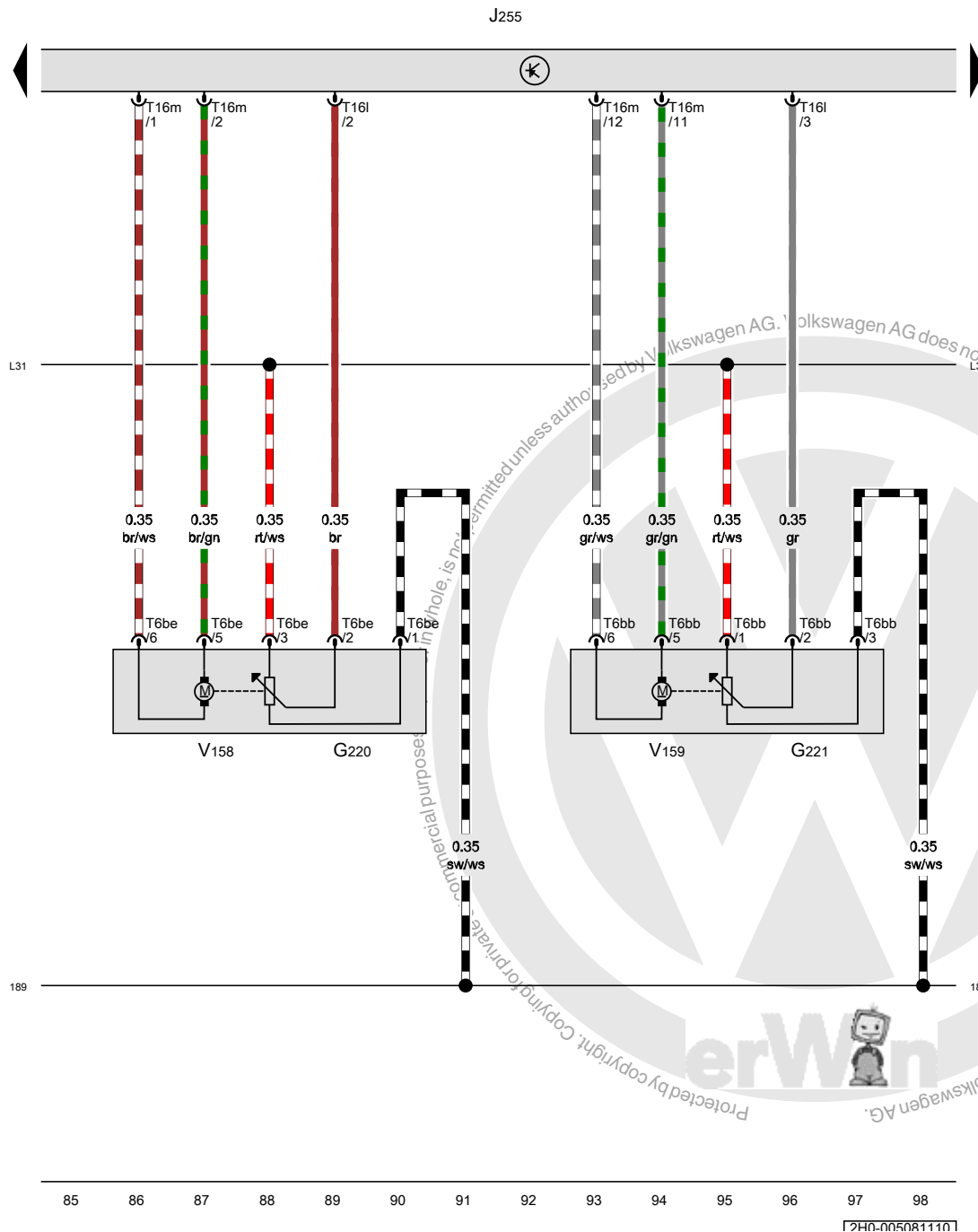


Potentiometer for defroster flap control motor,  
Potentiometer for footwell vent control motor, Climatronic  
control unit, Defroster flap control motor, Footwell flap  
control motor

- G135 Potentiometer for defroster flap control motor
- G468 Potentiometer for footwell vent control motor
- J255 Climatronic control unit, in centre of dash panel
- T6bd 6-pin connector
- T6bf 6-pin connector
- T16l 16-pin connector
- T16m 16-pin connector
- V107 Defroster flap control motor
- V261 Footwell flap control motor

- 189 Earth connection 1, in heater wiring harness
- L31 Connection (5V), in air conditioning system wiring harness

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- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
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- or = orange
- rs = pink



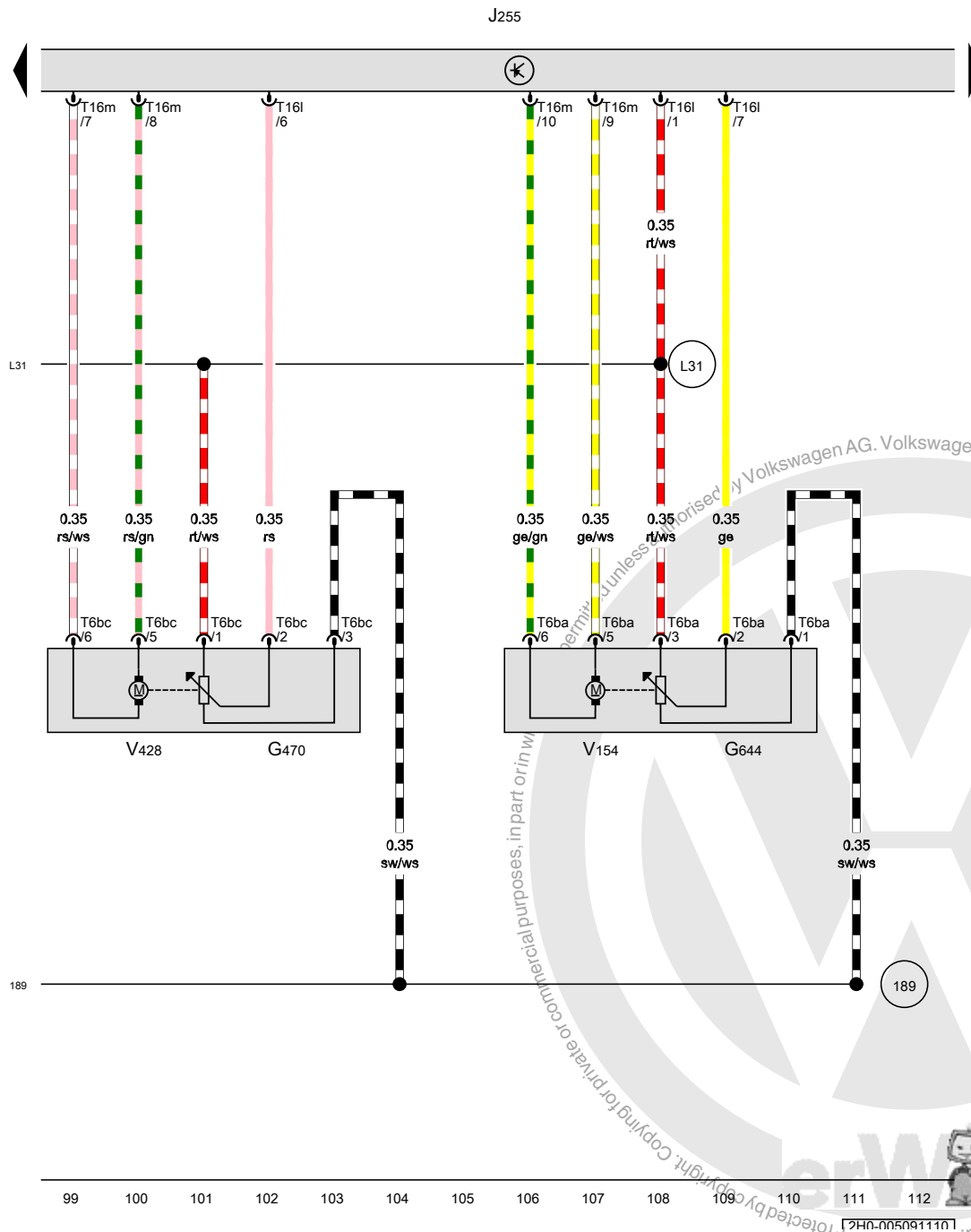
Potentiometer for left temperature flap control motor,  
Potentiometer for right temperature flap control motor,  
Climatronic control unit, Left temperature flap control motor,  
Right temperature flap control motor

- G220 Potentiometer for left temperature flap control motor
- G221 Potentiometer for right temperature flap control motor
- J255 Climatronic control unit, in centre of dash panel
- T6bb 6-pin connector
- T6be 6-pin connector
- T16l 16-pin connector
- T16m 16-pin connector
- V158 Left temperature flap control motor
- V159 Right temperature flap control motor

- 189 Earth connection 1, in heater wiring harness
- L31 Connection (5V), in air conditioning system wiring harness

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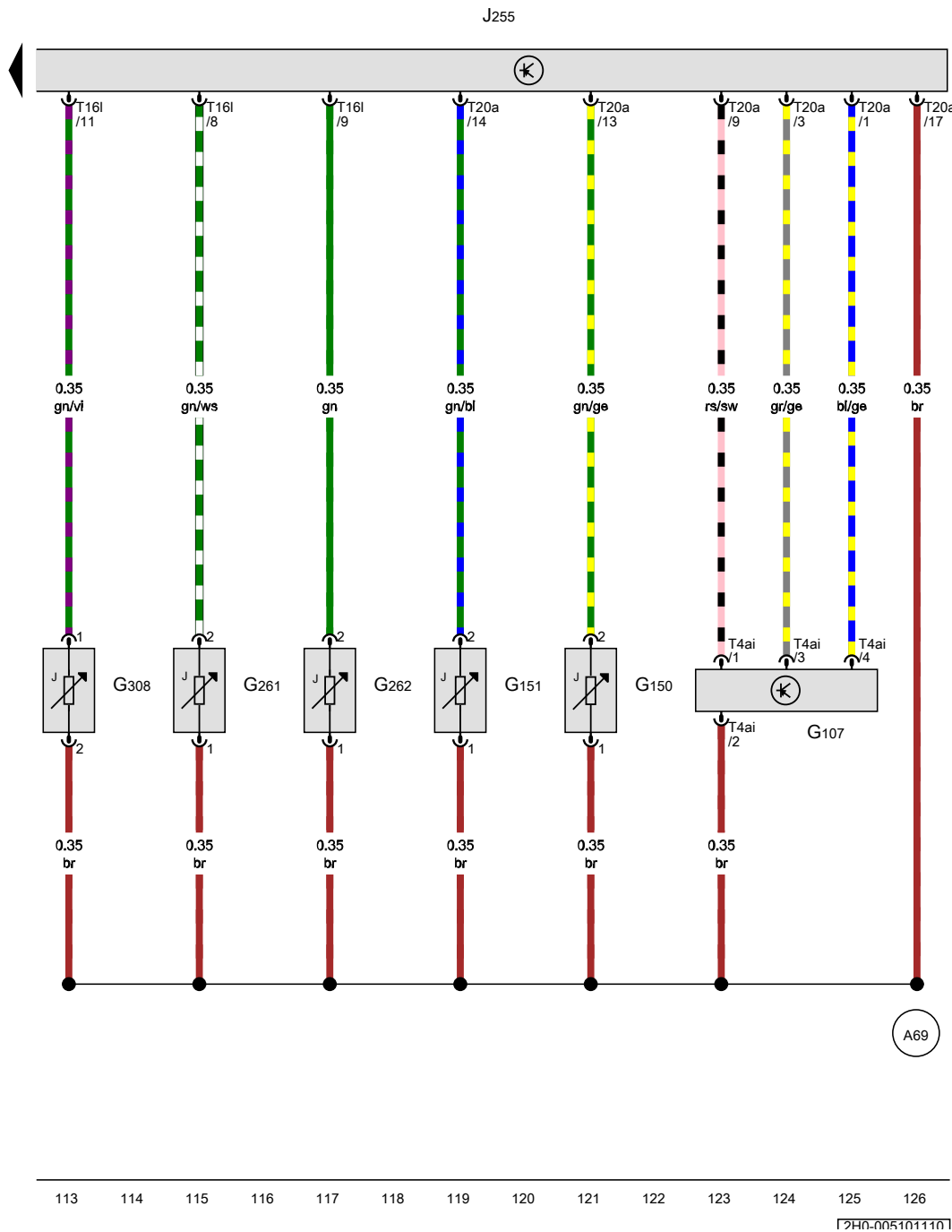


Potentiometer for front air distribution control motor,  
Potentiometer for fresh air/recirculated air, air flow flap  
control motor, Climatronic control unit, Fresh air and air  
recirculation flap control motor, Air distribution flap control  
motor

- G470 Potentiometer for front air distribution control motor
- G644 Potentiometer for fresh air/recirculated air, air flow flap control motor
- J255 Climatronic control unit, in centre of dash panel
- T6ba 6-pin connector
- T6bc 6-pin connector
- T16l 16-pin connector
- T16m 16-pin connector
- V154 Fresh air and air recirculation flap control motor
- V428 Air distribution flap control motor

- 189 Earth connection 1, in heater wiring harness
- L31 Connection (5V), in air conditioning system wiring harness

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Sunlight penetration photosensor, Left vent temperature sender, Right vent temperature sender, Left footwell vent temperature sender, Right footwell vent temperature sender, Evaporator temperature sensor, Climatronic control unit

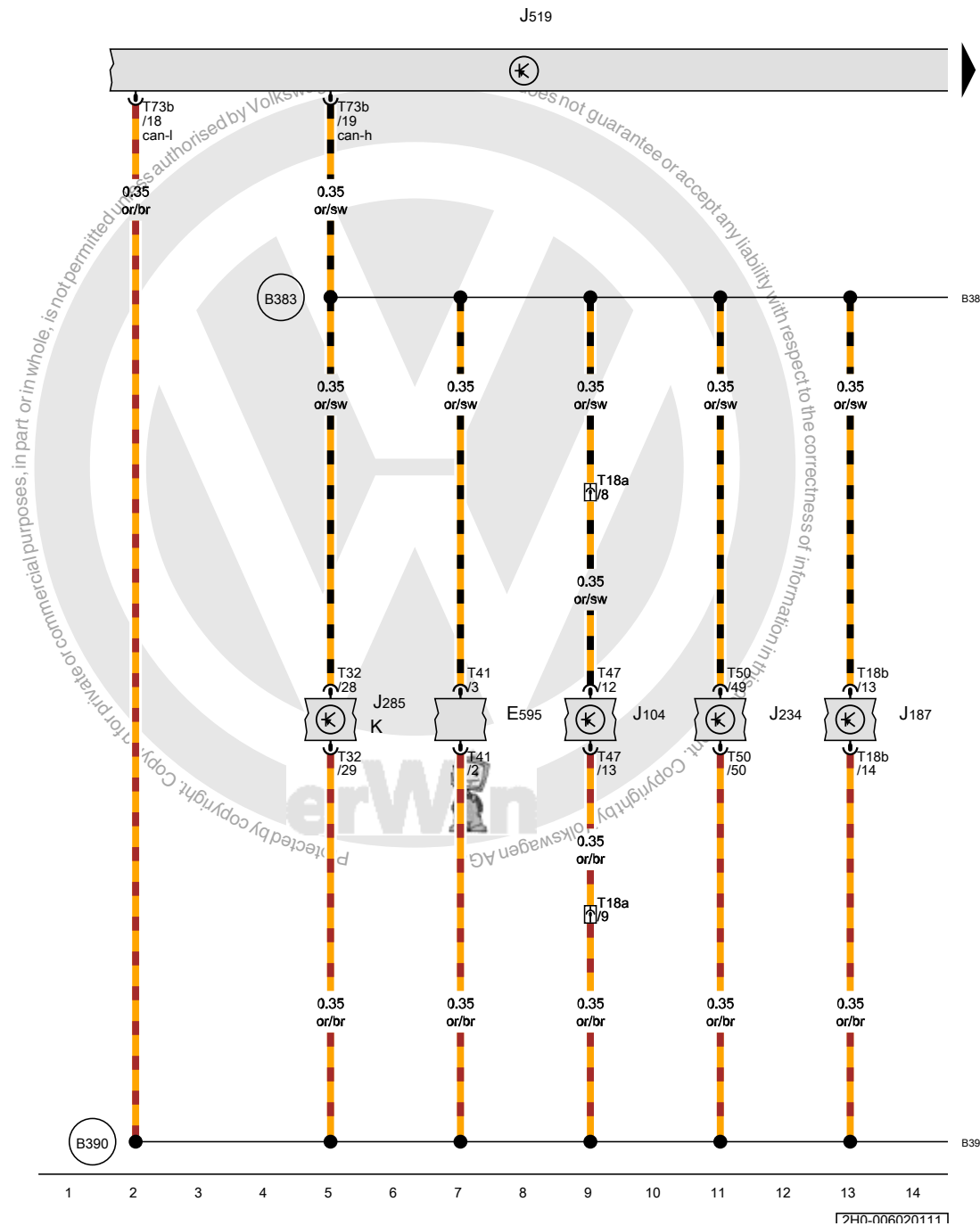
- G107 Sunlight penetration photosensor
- G150 Left vent temperature sender
- G151 Right vent temperature sender
- G261 Left footwell vent temperature sender
- G262 Right footwell vent temperature sender
- G308 Evaporator temperature sensor
- J255 Climatronic control unit, in centre of dash panel
- T4ai 4-pin connector
- T16l 16-pin connector
- T20a 20-pin connector
- A69 Connection (31, air conditioning system/blower control), in dash panel wiring harness

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- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
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## CAN and LIN bus networking, powertrain CAN, diagnosis CAN, dash panel CAN, convenience CAN

From December 2009

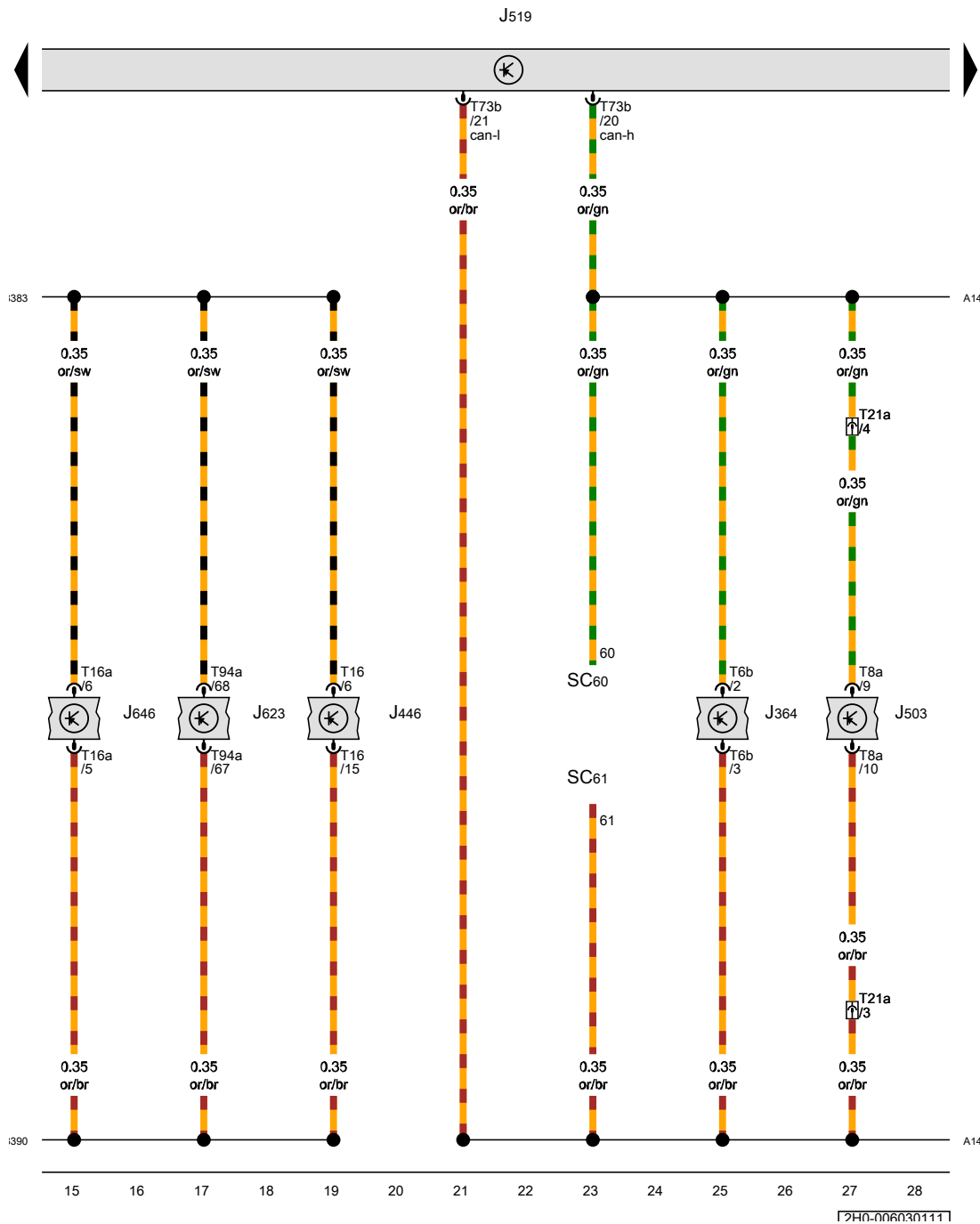




Control unit in dash panel insert, Onboard supply control unit, Connection 1 (powertrain CAN bus, high), in main wiring harness, Connection 1 (powertrain CAN bus, low), in main wiring harness

- E595 Steering column combination switch
- J104 ABS control unit
- J187 Differential lock control unit
- J234 Airbag control unit
- J285 Control unit in dash panel insert
- J519 Onboard supply control unit, near driver side A-pillar
- K Dash panel insert
- T18a 18-pin connector, near battery
- T18b 18-pin connector
- T32 32-pin connector
- T41 41-pin connector
- T47 47-pin connector
- T50 50-pin connector
- T73b 73-pin connector
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

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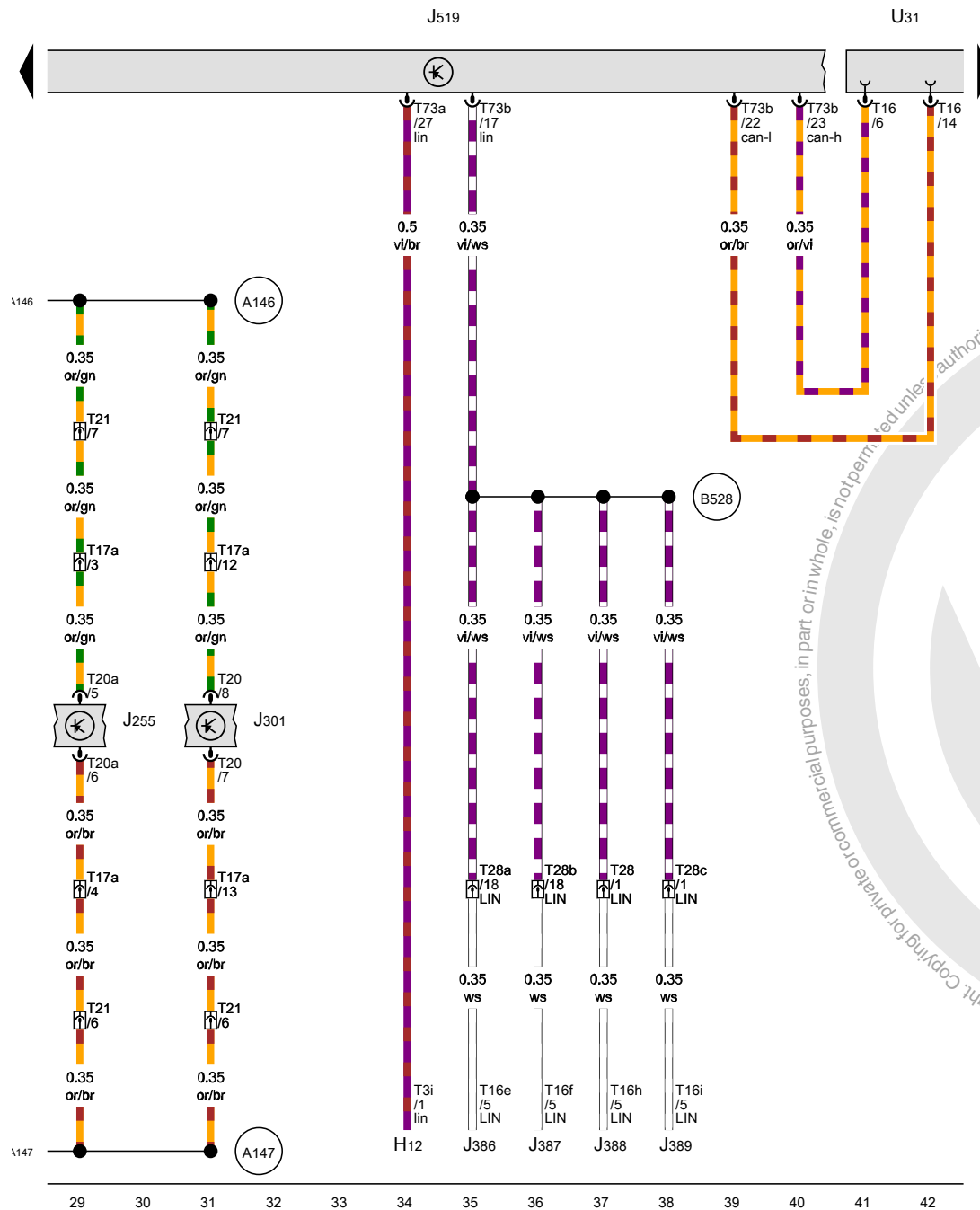


Onboard supply control unit, Fuse 60 on fuse holder C, Fuse 61 on fuse holder C, Connection (convenience CAN bus, high), in dash panel wiring harness, Connection (convenience CAN bus, low), in dash panel wiring harness, Connection 1 (powertrain CAN bus, high), in main wiring harness, Connection 1 (powertrain CAN bus, low), in main wiring harness

- J364 Auxiliary heater control unit
- J446 Parking aid control unit
- J503 Control unit with display for radio and navigation
- J519 Onboard supply control unit, near driver side A-pillar
- J623 Engine control unit
- J646 Transfer box control unit
- SC60 Fuse 60 on fuse holder C
- SC61 Fuse 61 on fuse holder C
- T6b 6-pin connector
- T8a 8-pin connector
- T16 16-pin connector
- T16a 16-pin connector
- T21a 21-pin connector, on relay carrier
- T73b 73-pin connector
- T94a 94-pin connector

- A146 Connection (convenience CAN bus, high), in dash panel wiring harness
- A147 Connection (convenience CAN bus, low), in dash panel wiring harness
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

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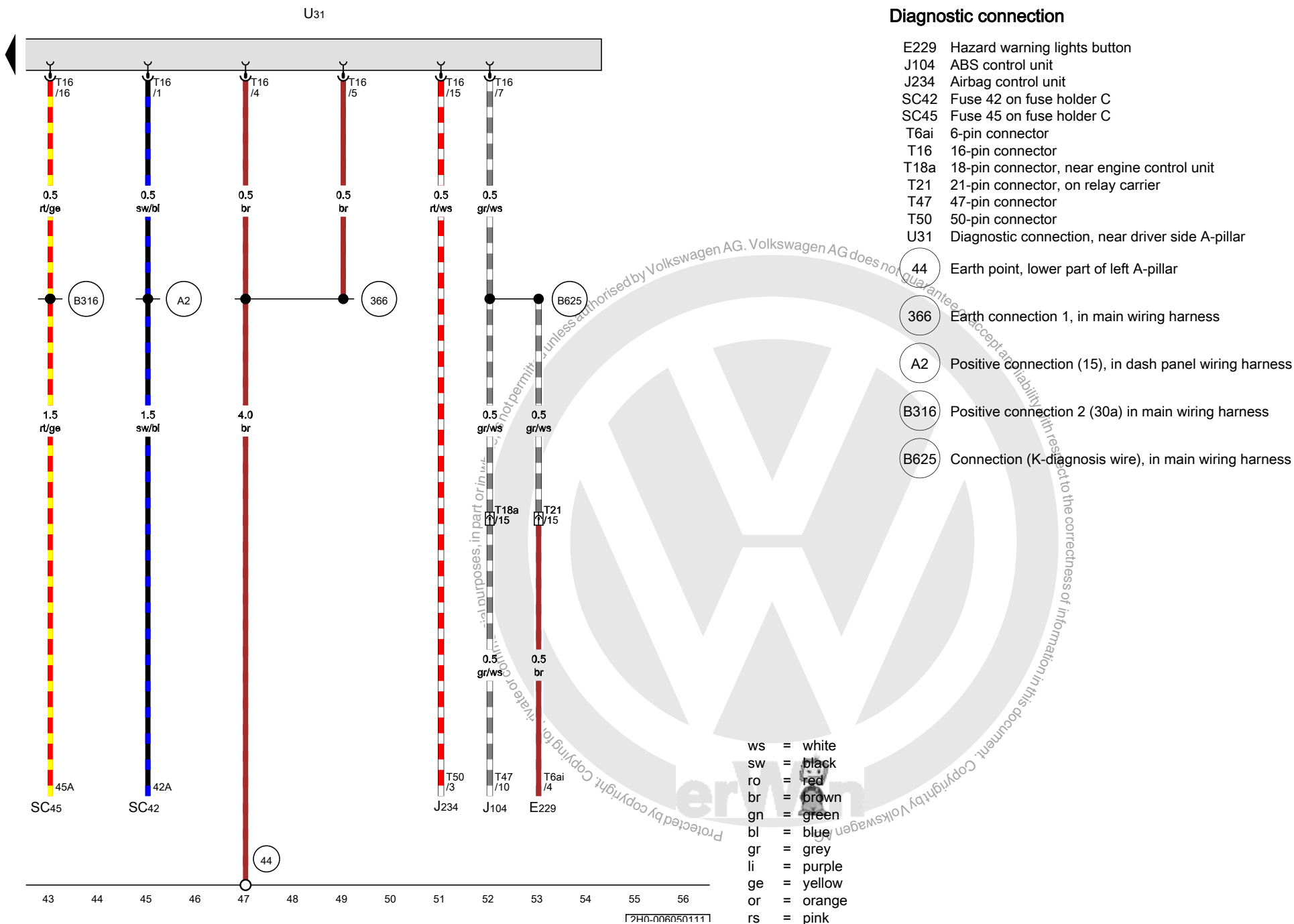


Onboard supply control unit, Diagnostic connection,  
Connection (convenience CAN bus, high), in dash panel  
wiring harness, Connection (convenience CAN bus, low), in  
dash panel wiring harness

- H12 Alarm horn
- J255 Climatronic control unit
- J301 Air conditioning system control unit
- J386 Driver door control unit
- J387 Front passenger door control unit
- J388 Rear left door control unit
- J389 Rear right door control unit
- J519 Onboard supply control unit, near driver side A-pillar
- T3i 3-pin connector
- T16 16-pin connector
- T16e 16-pin connector
- T16f 16-pin connector
- T16h 16-pin connector
- T16i 16-pin connector
- T17a 17-pin connector, behind glove compartment
- T20 20-pin connector
- T20a 20-pin connector
- T21 21-pin connector, on relay carrier
- T28 28-pin connector, on left B-pillar
- T28a 28-pin connector, on left A-pillar
- T28b 28-pin connector, on right A-pillar
- T28c 28-pin connector, on right B-pillar
- T73a 73-pin connector
- T73b 73-pin connector
- U31 Diagnostic connection, near driver side A-pillar

- A146 Connection (convenience CAN bus, high), in dash panel wiring harness
- A147 Connection (convenience CAN bus, low), in dash panel wiring harness
- B528 Connection 1 (LIN bus) in main wiring harness

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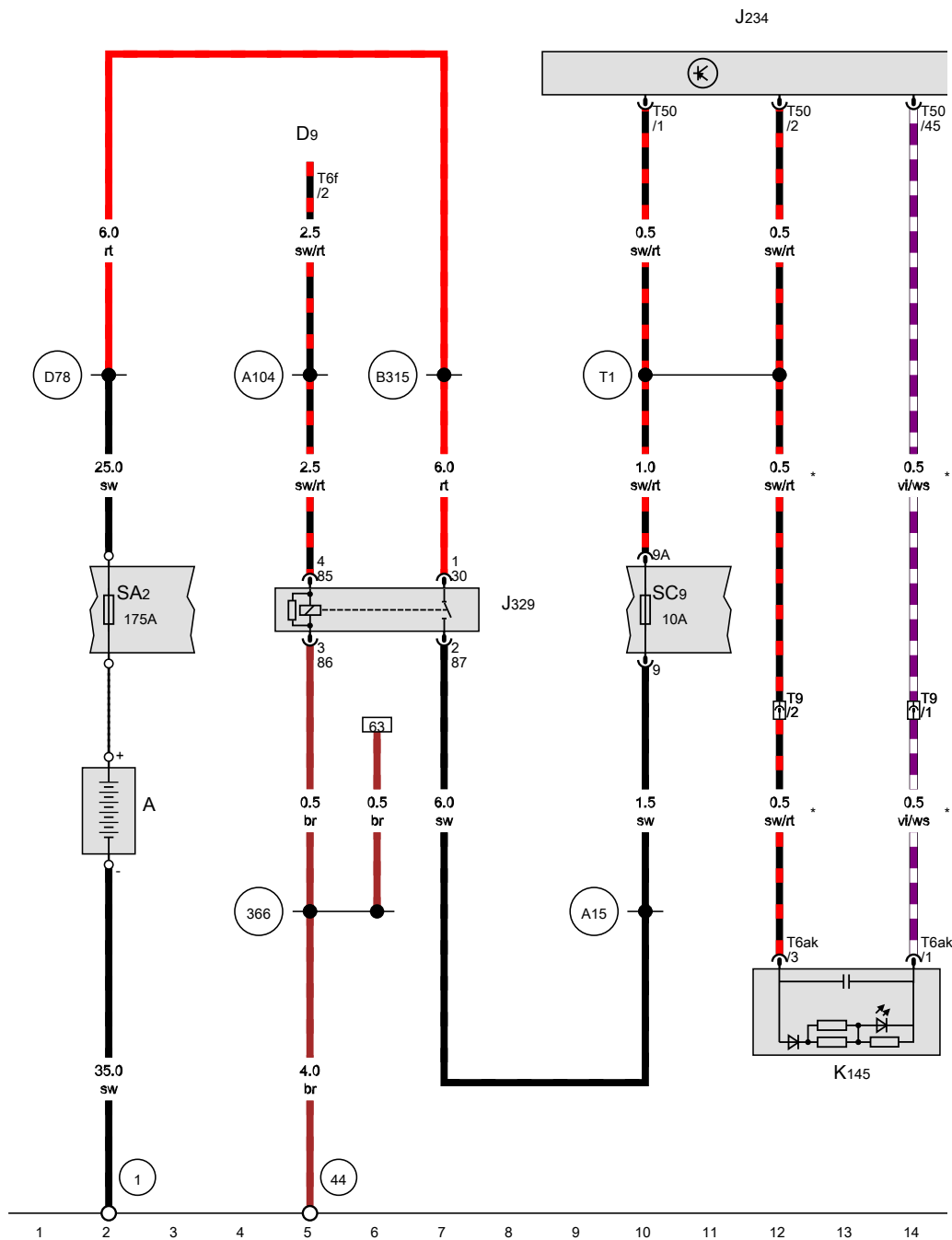


## Airbag systems

From December 2009







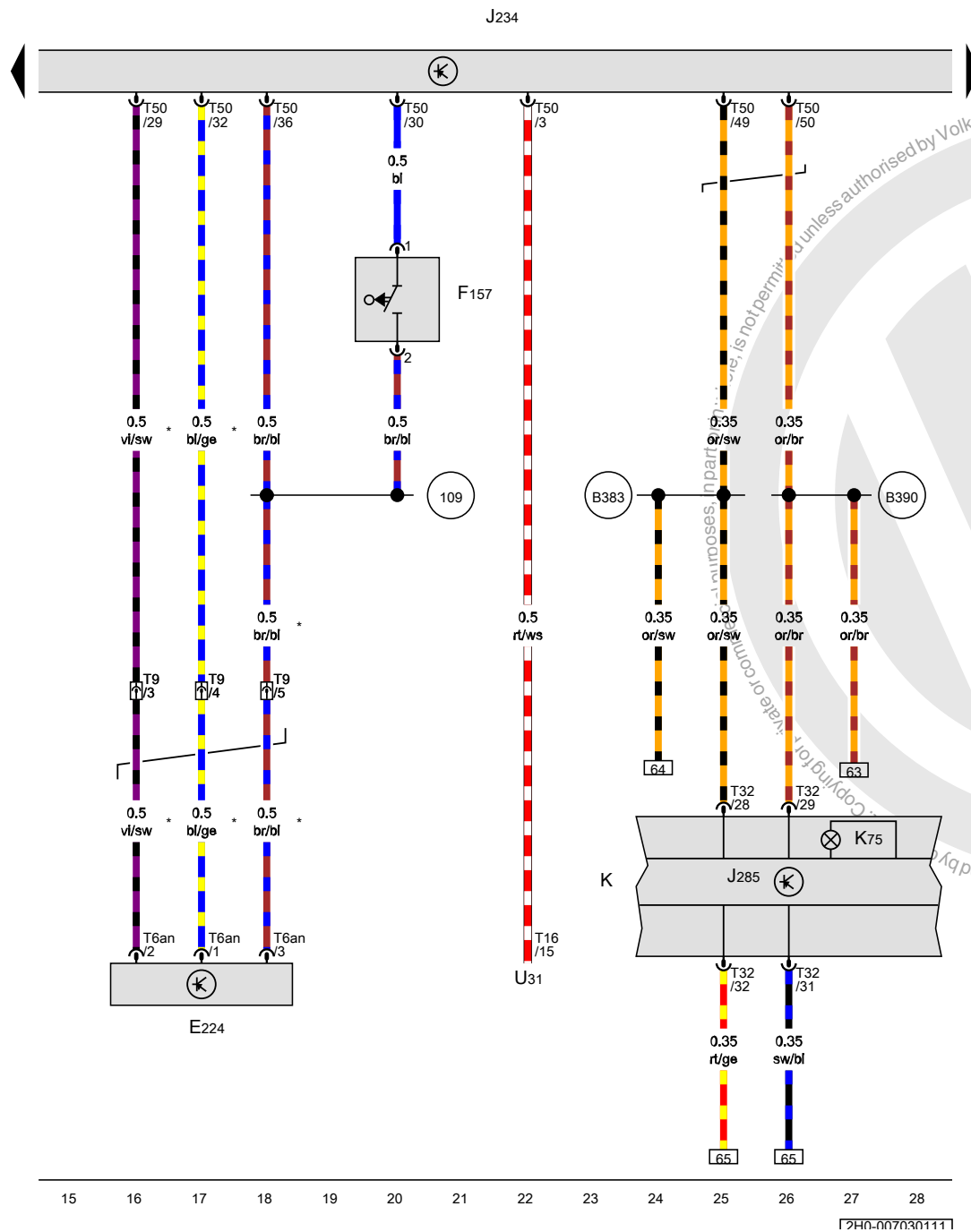
Battery, Electronic ignition lock, Airbag control unit, Front passenger side airbag deactivated warning lamp, Fuse 2 in fuse holder A, Fuse 9 on fuse holder C

- A Battery
- D9 Electronic ignition lock
- J234 Airbag control unit, under centre console
- J329 Terminal 15 voltage supply relay
- K145 Front passenger side airbag deactivated warning lamp, near radio
- SA2 Fuse 2 in fuse holder A
- SC9 Fuse 9 on fuse holder C
- T6ak 6-pin connector
- T6f 6-pin connector
- T9 9-pin connector, on relay carrier
- T50 50-pin connector

- 1 Earth strap, battery - body
- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- A15 Positive connection (15), in instrument wiring harness
- A104 Positive connection 2 (15), in dash panel wiring harness
- B315 Positive connection 1 (30a) in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness
- T1 Positive connection 1, in airbag wiring harness

\* Only models with key operated switch to deactivate front passenger airbag/ side airbag/ belt buckle sensor

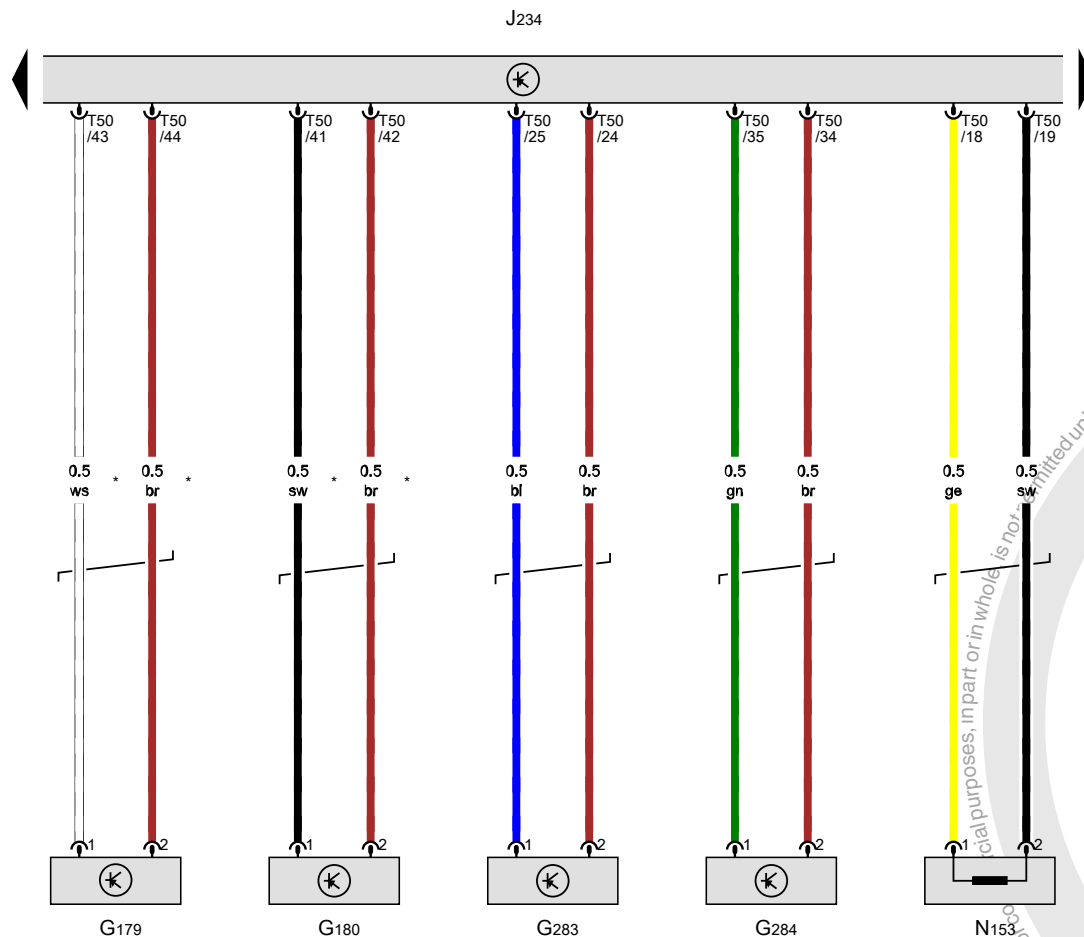
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Key operated switch to deactivate front passenger side airbag, Belt fastened contact on driver side, Airbag control unit, Dash panel insert, Diagnostic connection

- E224 Key operated switch to deactivate front passenger side airbag
- F157 Belt fastened contact on driver side
- J234 Airbag control unit, under centre console
- J285 Control unit in dash panel insert
- K Dash panel insert
- K75 Airbag warning lamp
- T6an 6-pin connector
- T9 9-pin connector, on relay carrier
- T16 16-pin connector
- T32 32-pin connector
- T50 50-pin connector
- U31 Diagnostic connection, near driver side A-pillar
- 109 Earth connection, in airbag wiring harness
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- \* Only models with key operated switch to deactivate front passenger airbag/ side airbag/ belt buckle sensor

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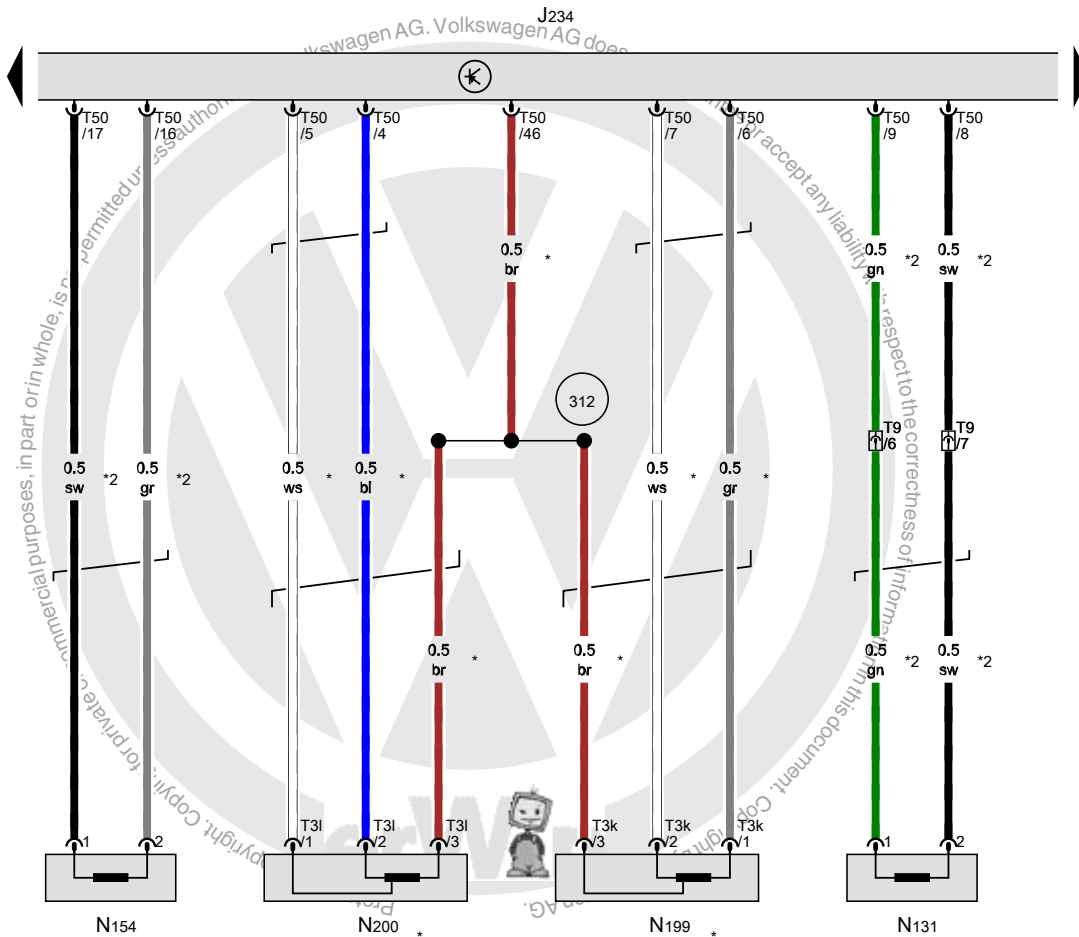
Side airbag crash sensor on driver side, Side airbag crash sensor on front passenger side, Front airbag crash sensor for driver side, Front airbag crash sensor for front passenger side, Airbag control unit, Driver seat belt tensioner igniter 1

- G179 Side airbag crash sensor on driver side, on left B-pillar
- G180 Side airbag crash sensor on front passenger side, on right B-pillar
- G283 Front airbag crash sensor for driver side, near left headlight
- G284 Front airbag crash sensor for front passenger side, near right headlight
- J234 Airbag control unit, under centre console
- N153 Driver seat belt tensioner igniter 1
- T50 50-pin connector
- \* Only models with front head-thorax airbag

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29 30 31 32 33 34 35 36 37 38 39 40 41 42

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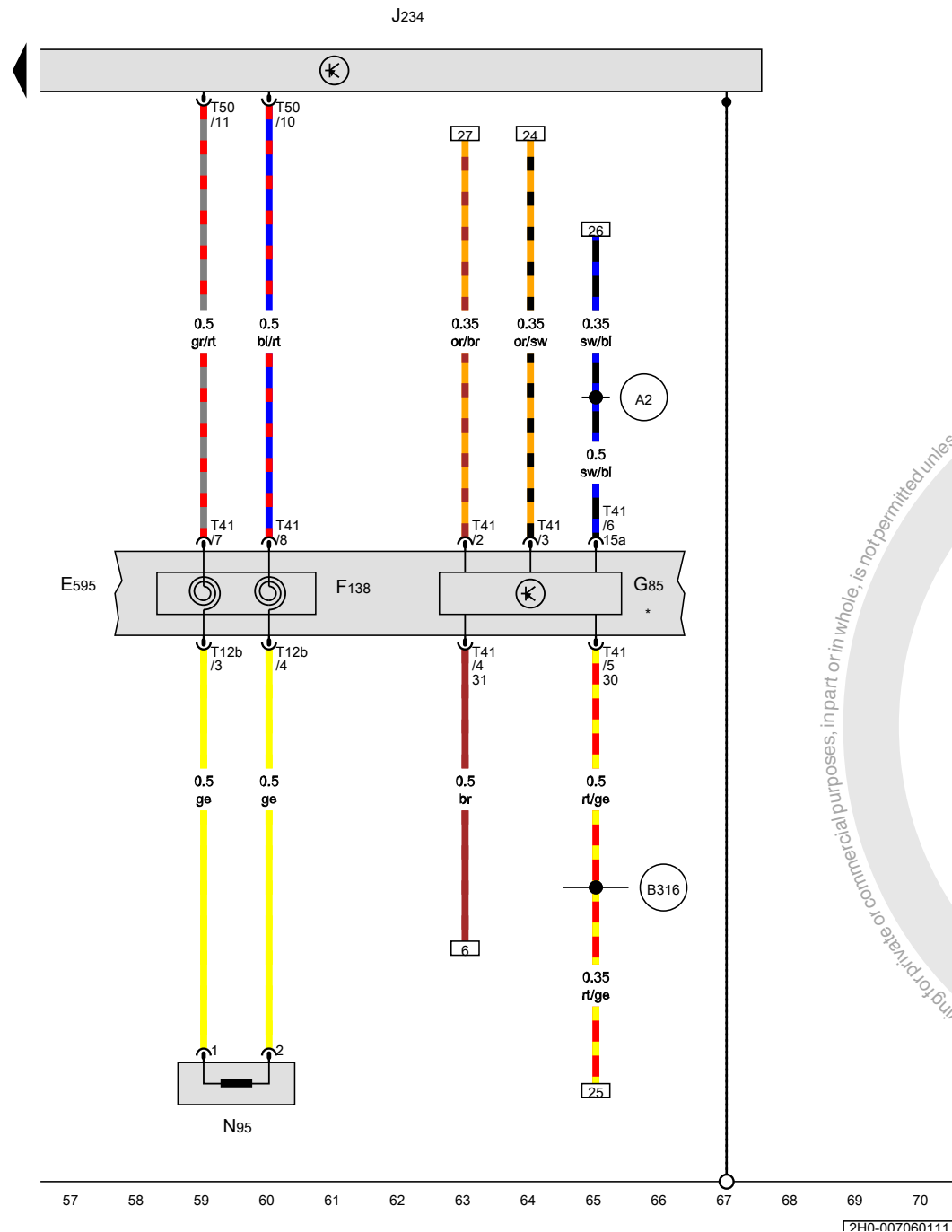


**Airbag control unit, Front passenger side airbag igniter 1, Front passenger seat belt tensioner igniter 1, Side airbag igniter on driver side, Side airbag igniter on front passenger side**

- |      |   |
|------|---|
| J234 | Airbag control unit, under centre console     |
| N131 | Front passenger side airbag igniter 1         |
| N154 | Front passenger seat belt tensioner igniter 1 |
| N199 | Side airbag igniter on driver side            |
| N200 | Side airbag igniter on front passenger side   |
| T3k  | 3-pin connector                               |
| T3l  | 3-pin connector                               |
| T9   | 9-pin connector, on relay carrier             |
| T50  | 50-pin connector                              |

- 312 Earth connection 2, in airbag wiring harness
- \* Only models with front head-thorax airbag
- \*2 Only models with front passenger airbag

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Steering column combination switch, Airbag coil connector and return ring with slip ring, Airbag control unit, Driver side airbag igniter

- E595 Steering column combination switch
- F138 Airbag coil connector and return ring with slip ring
- G85 Steering angle sender
- J234 Airbag control unit, under centre console
- N95 Driver side airbag igniter
- T12b 12-pin connector
- T41 41-pin connector
- T50 50-pin connector

A2 Positive connection (15), in dash panel wiring harness

B316 Positive connection 2 (30a) in main wiring harness

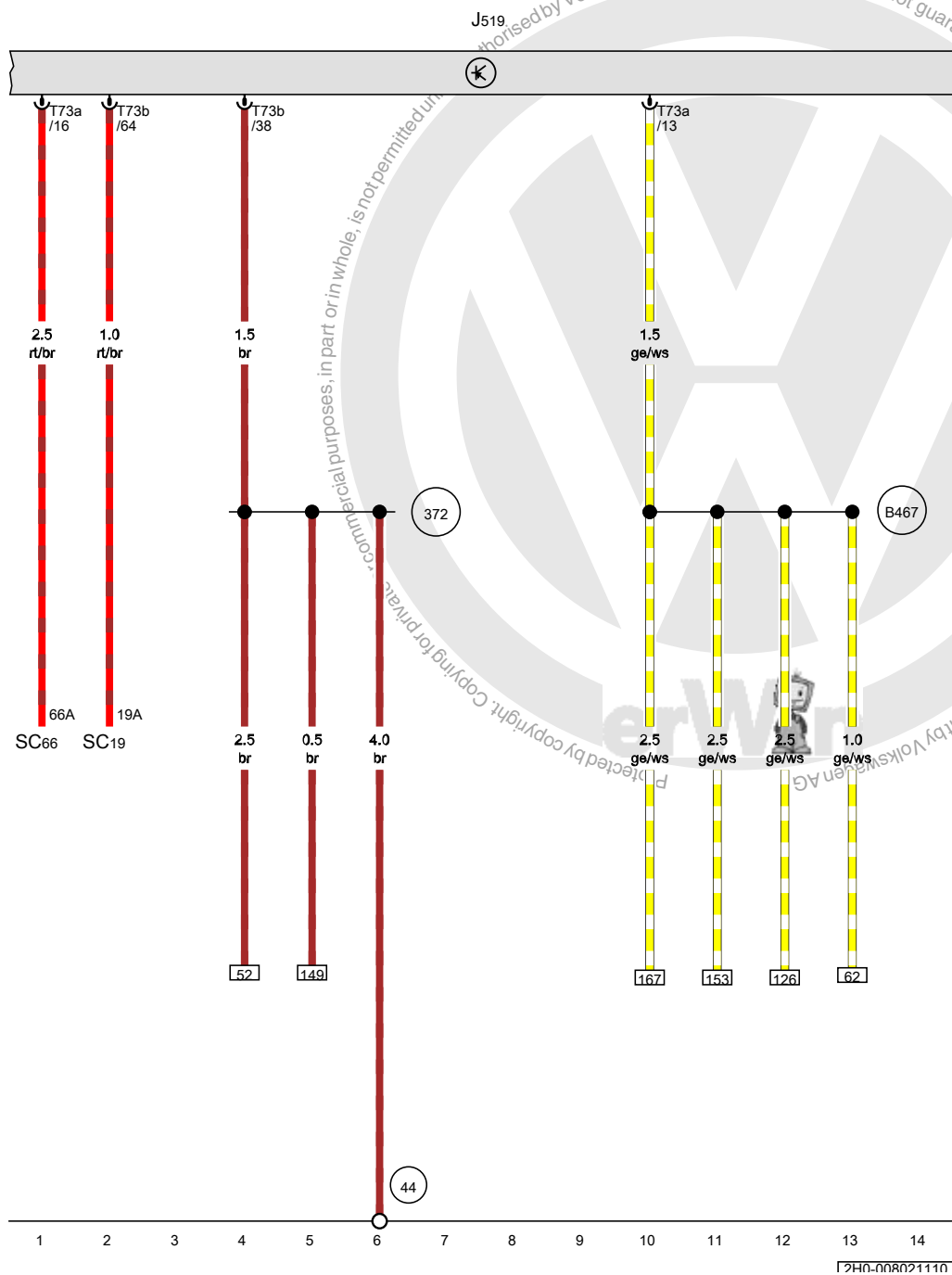
\* Only models with anti-lock brake system (ABS) and electronic stabilisation program (ESP)

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## Central locking, window regulators and mirror adjustment, RHD vehicles

From December 2009





### Onboard supply control unit, Fuse 19 on fuse holder C

J519 Onboard supply control unit

SC19 Fuse 19 on fuse holder C

SC66 Fuse 66 on fuse holder C

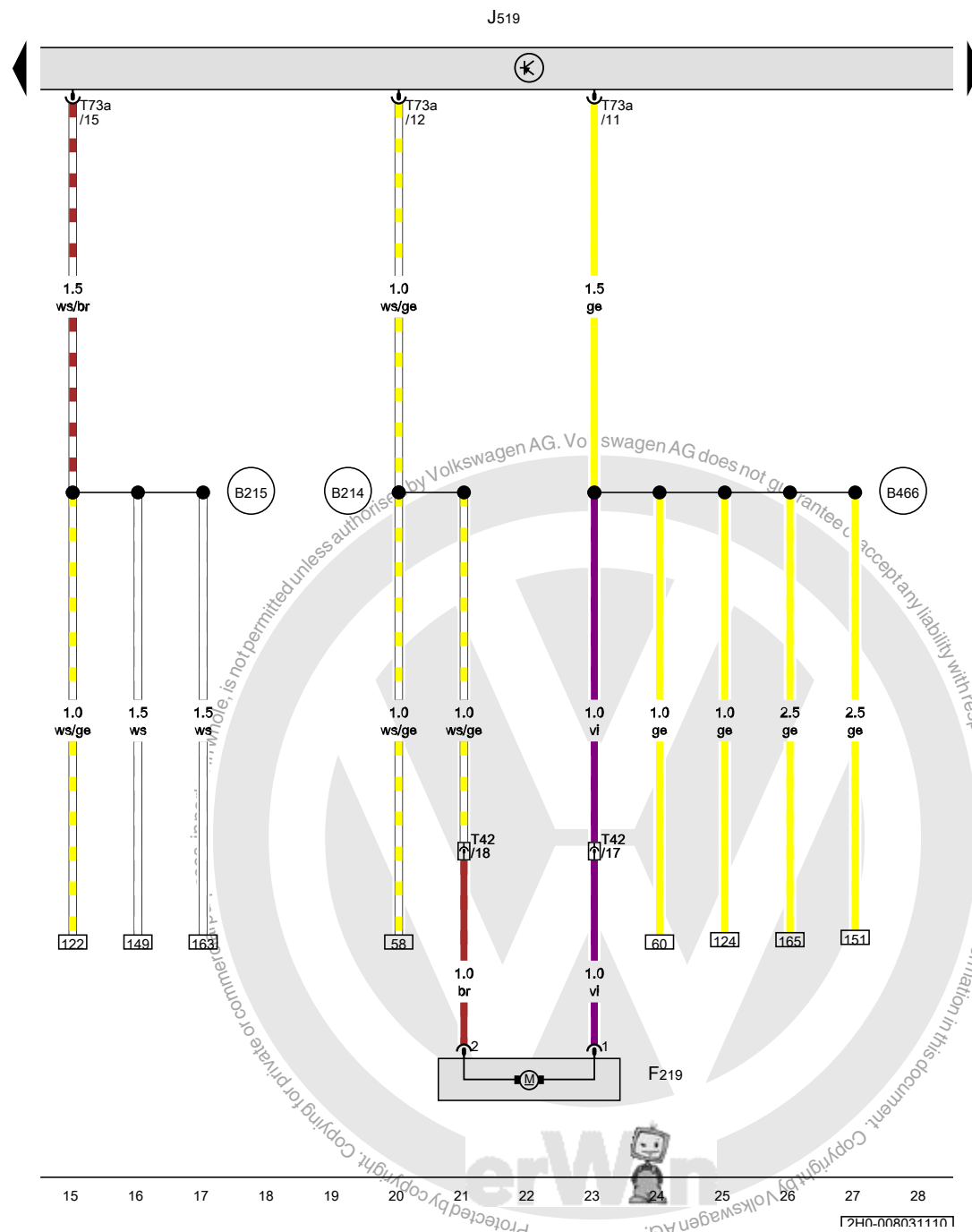
T73a 73-pin connector

T73b 73-pin connector

44 Earth point, lower part of left A-pillar

372 Earth connection 7, in main wiring harness

B467 Connection 3, in main wiring harness



### Fuel tank filler flap central locking actuator, Onboard supply control unit

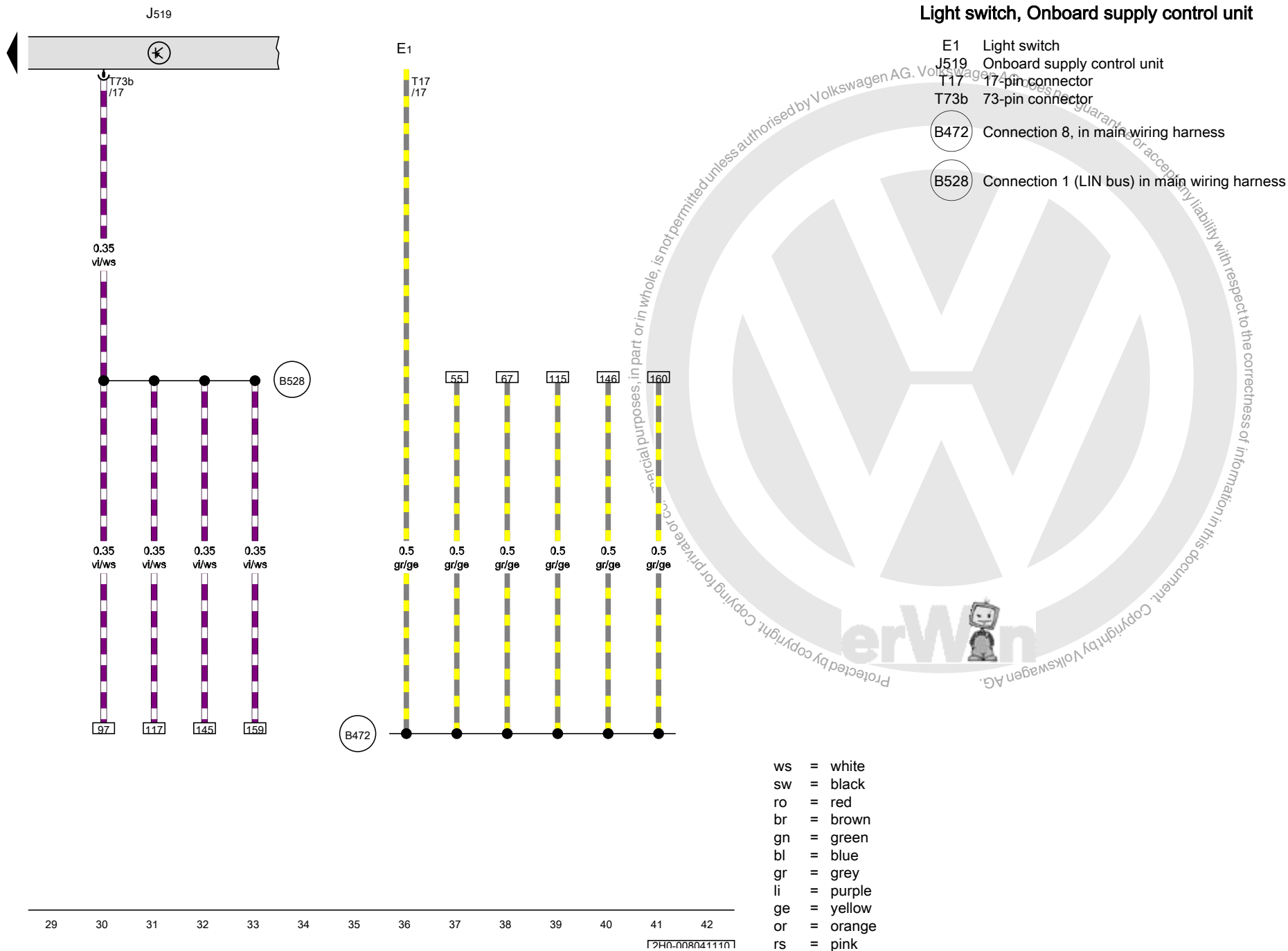
- F219 Fuel tank filler flap central locking actuator
- J519 Onboard supply control unit
- T42 42-pin connector
- T73a 73-pin connector

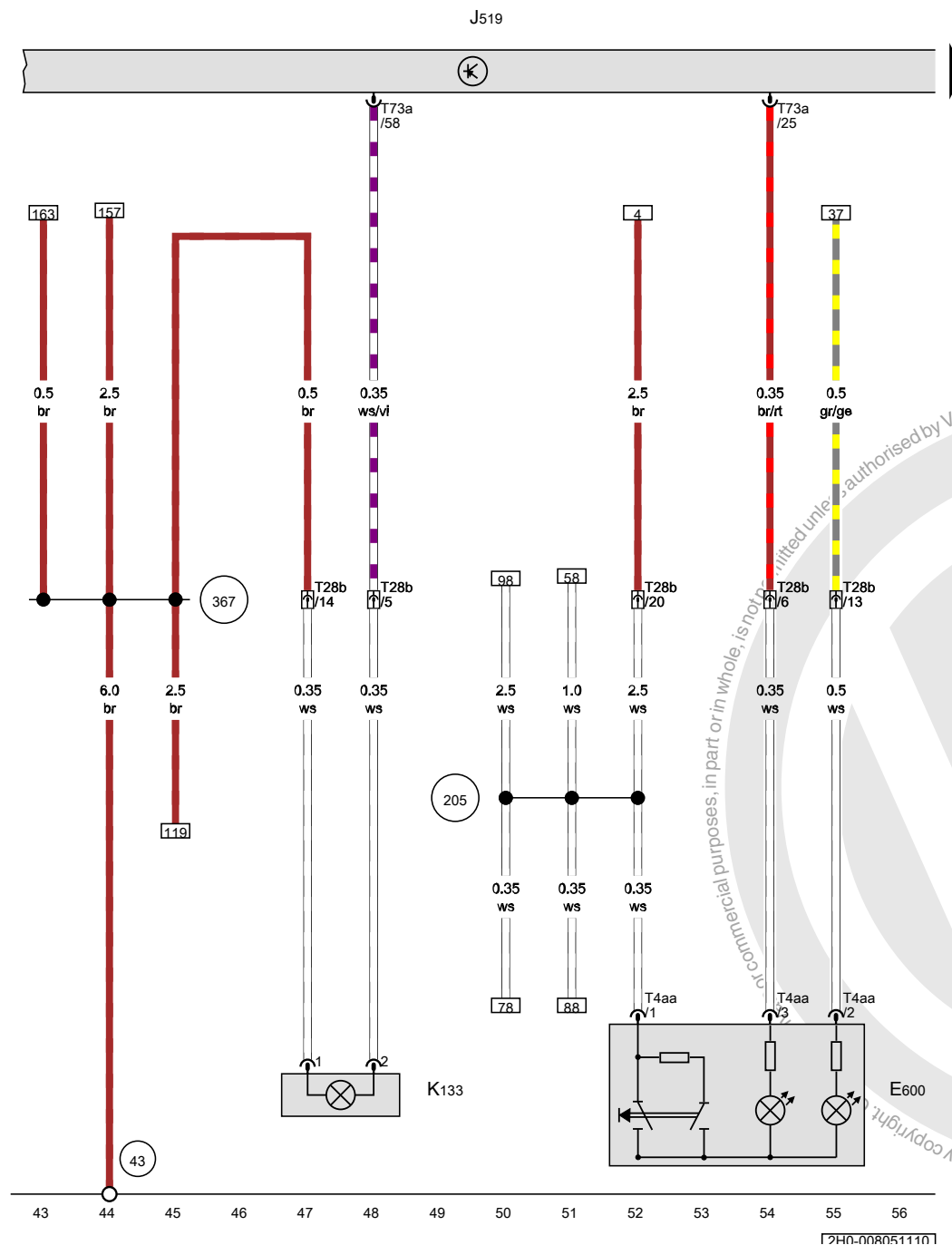
(B214) Connection 1 (central locking), in interior wiring harness

(B215) Connection 2 (central locking), in interior wiring harness

(B466) Connection 2, in main wiring harness



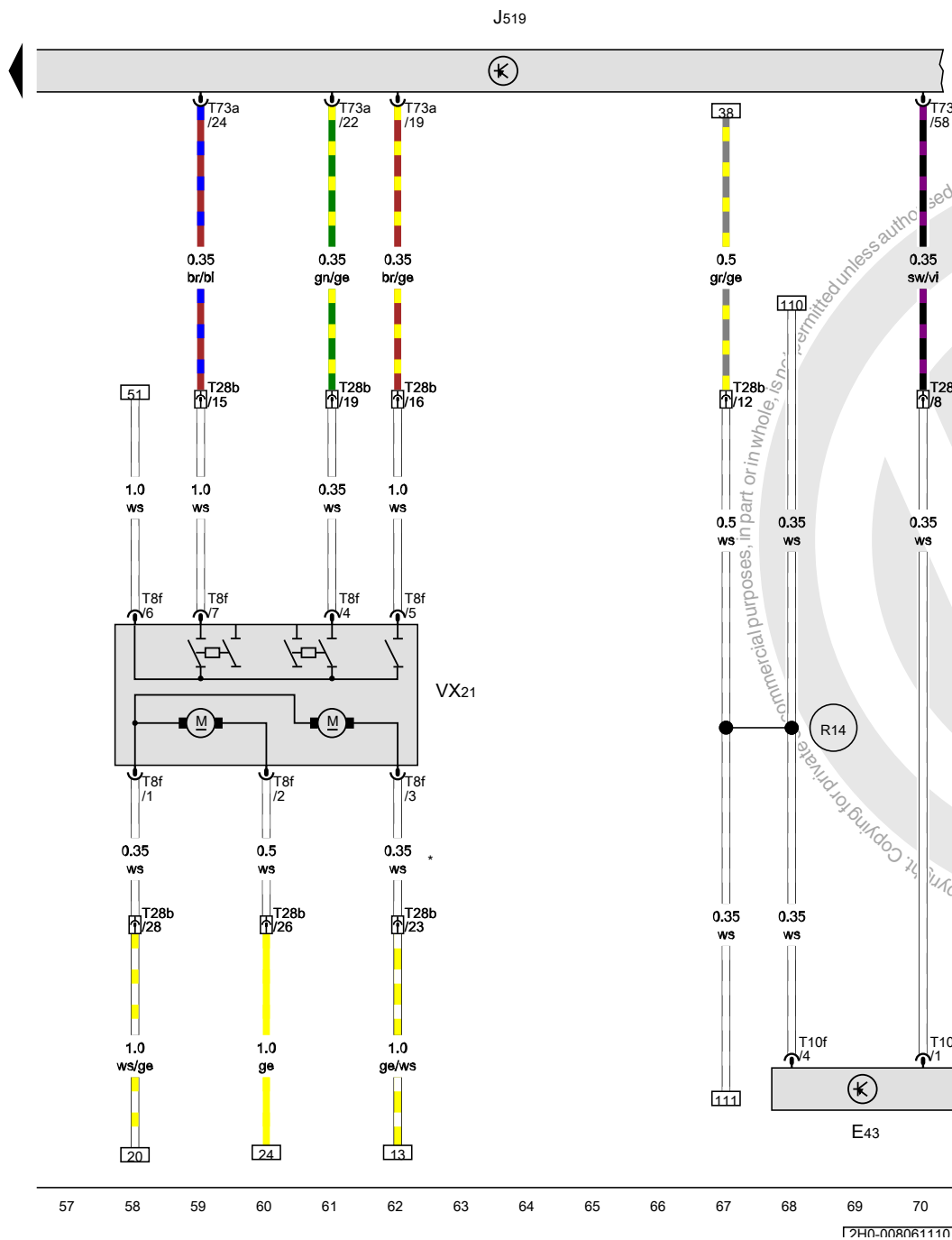




Central locking button, Onboard supply control unit, Central locking deadlock function warning lamp -SAFE-

- E600 Central locking button
- J519 Onboard supply control unit
- K133 Central locking deadlock function warning lamp -SAFE-
- T4aa 4-pin connector
- T28b 28-pin connector
- T73a 73-pin connector

- 43 Earth point, lower part of right A-pillar
- 205 Earth connection, in driver door wiring harness
- 367 Earth connection 2, in main wiring harness



**Mirror adjustment switch, Onboard supply control unit, Driver door lock unit**

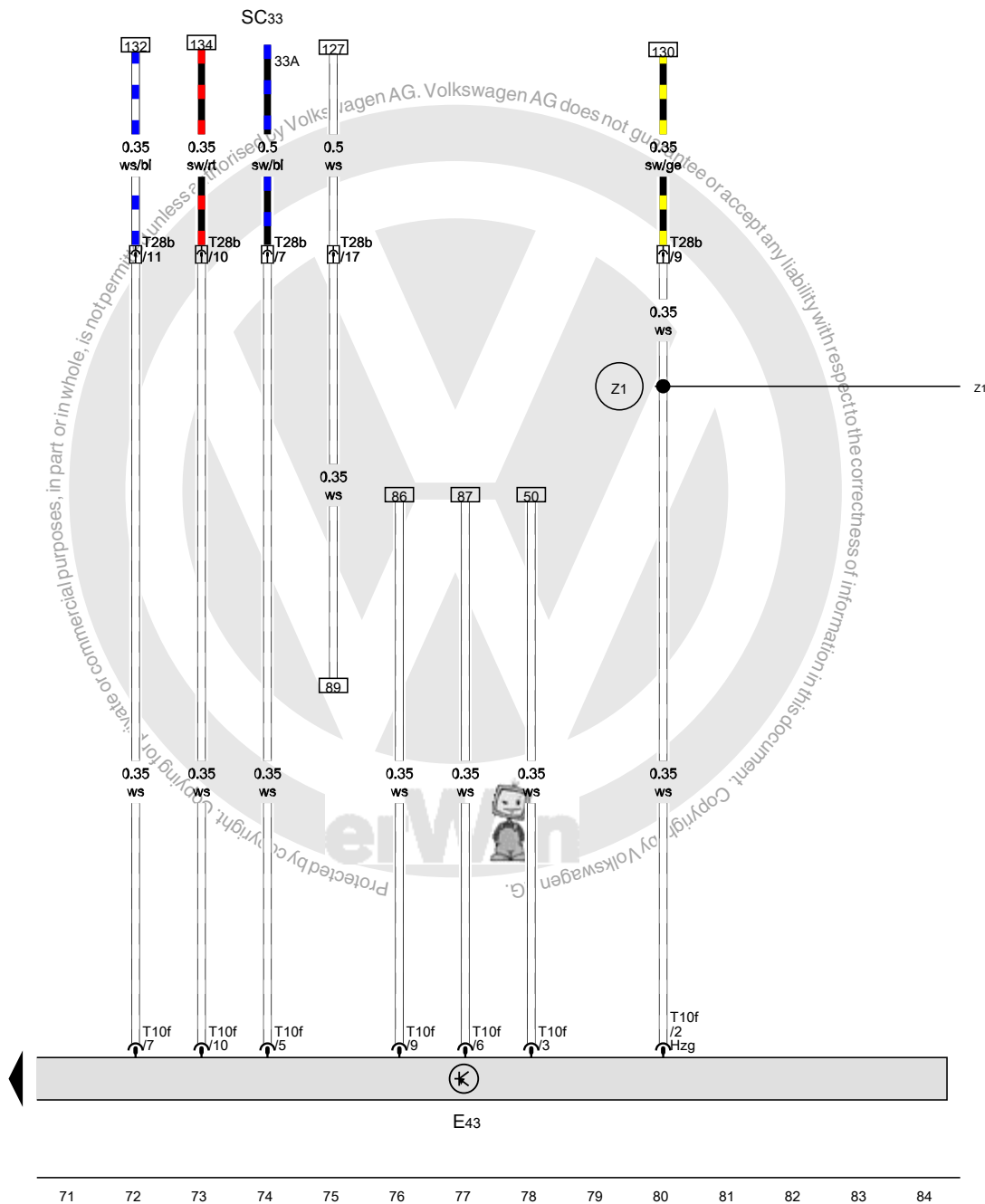
- E43 Mirror adjustment switch
- J519 Onboard supply control unit
- T8f 8-pin connector
- T10f 10-pin connector
- T28b 28-pin connector
- T73a 73-pin connector
- T73b 73-pin connector
- VX21 Driver door lock unit
- R14 Connection 1 (open) in driver door wiring harness
- \* Only models with deadlock function

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 gn = green  
 bl = blue  
 gr = grey  
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Mirror adjustment switch, Fuse 33 on fuse holder C

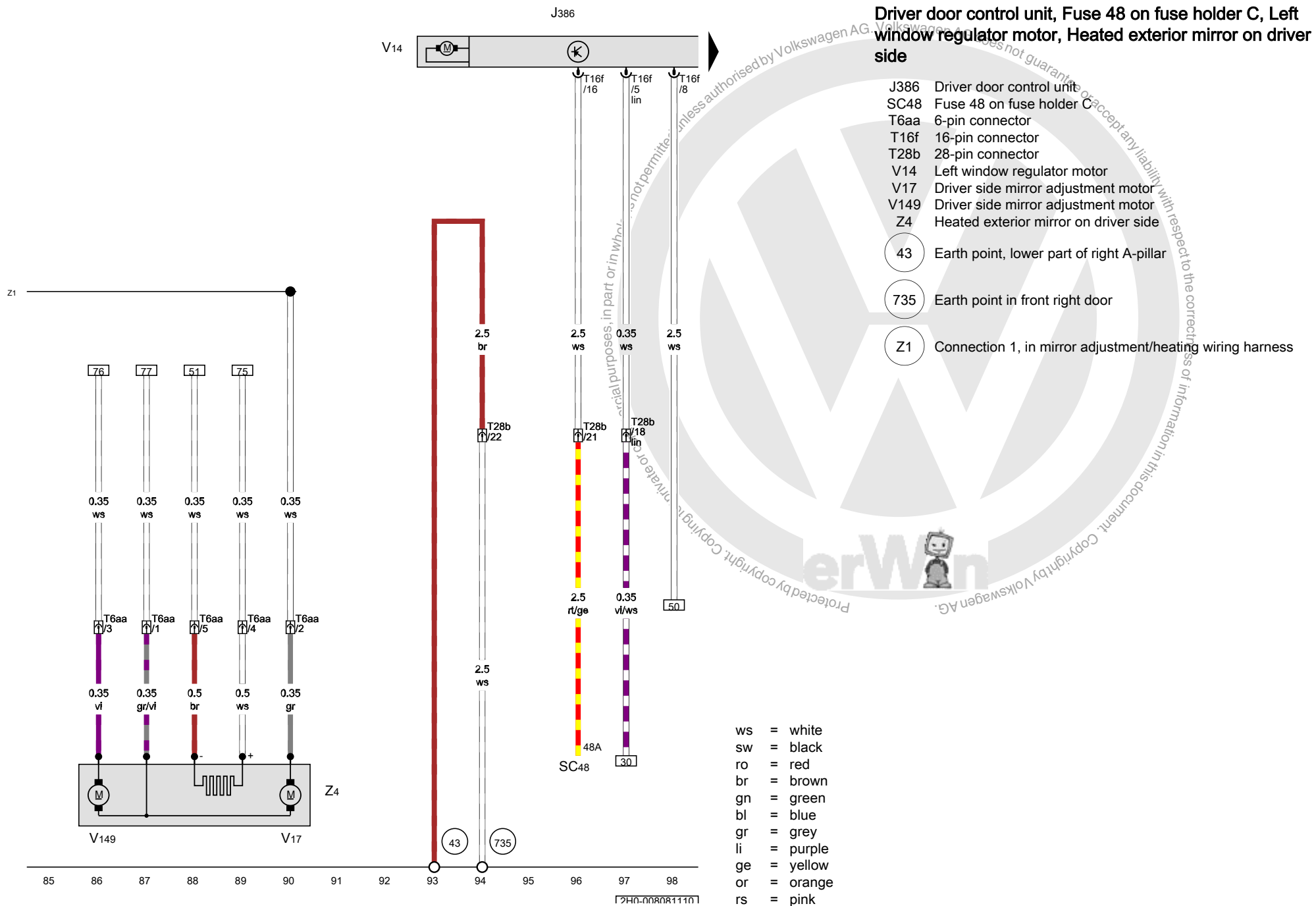
- E43 Mirror adjustment switch
- SC33 Fuse 33 on fuse holder C
- T10f 10-pin connector
- T28b 28-pin connector

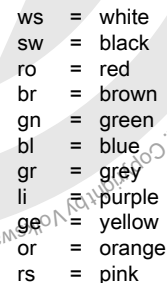
(Z1) Connection 1, in mirror adjustment/heating wiring harness

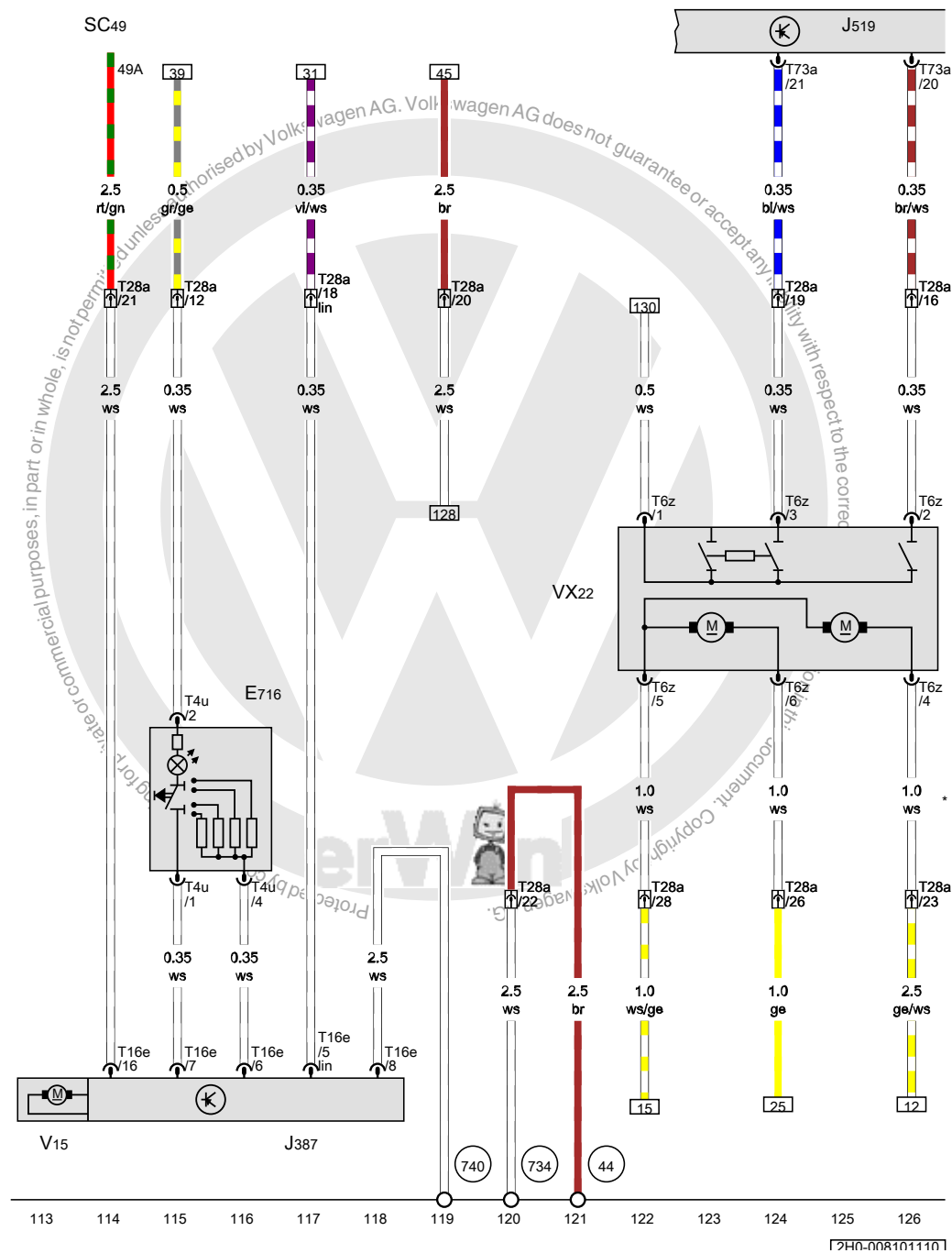


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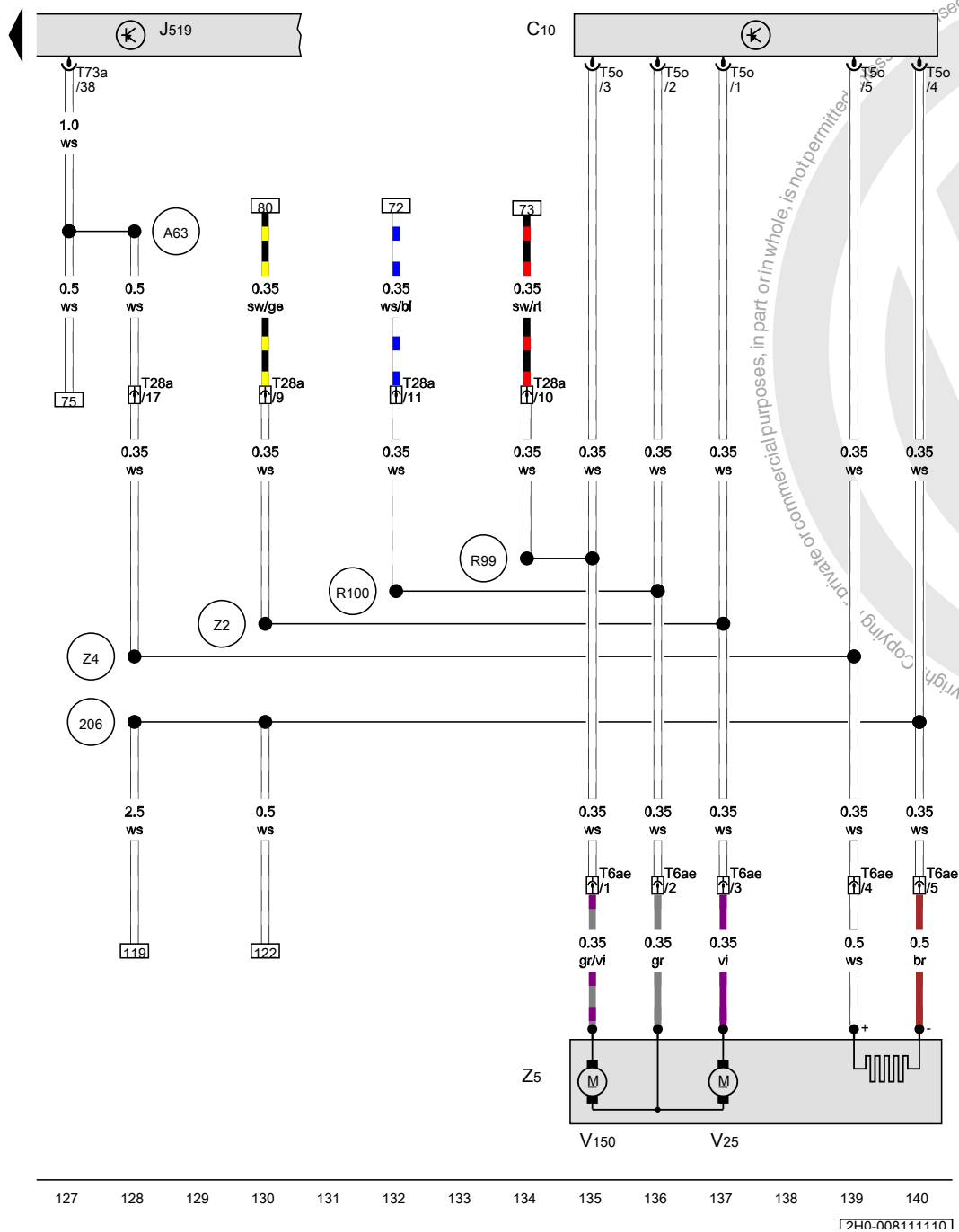


Front passenger side window regulator button, Front passenger door control unit, Onboard supply control unit, Fuse 49 on fuse holder C, Right window regulator motor, Front passenger door lock unit

- |      |  |
|------|--|
| E716 | Front passenger side window regulator button |
| J387 | Front passenger door control unit            |
| J519 | Onboard supply control unit                  |
| SC49 | Fuse 49 on fuse holder C                     |
| T4u  | 4-pin connector                              |
| T6z  | 6-pin connector                              |
| T16e | 16-pin connector                             |
| T28a | 28-pin connector                             |
| T73a | 73-pin connector                             |
| V15  | Right window regulator motor                 |
| VX22 | Front passenger door lock unit               |

- |     |  |
|-----|--|
| 44  | Earth point, lower part of left A-pillar |
| 734 | Earth point in front left door           |
| 740 | Earth point 2 in front left door         |
| *   | Only models with deadlock function       |

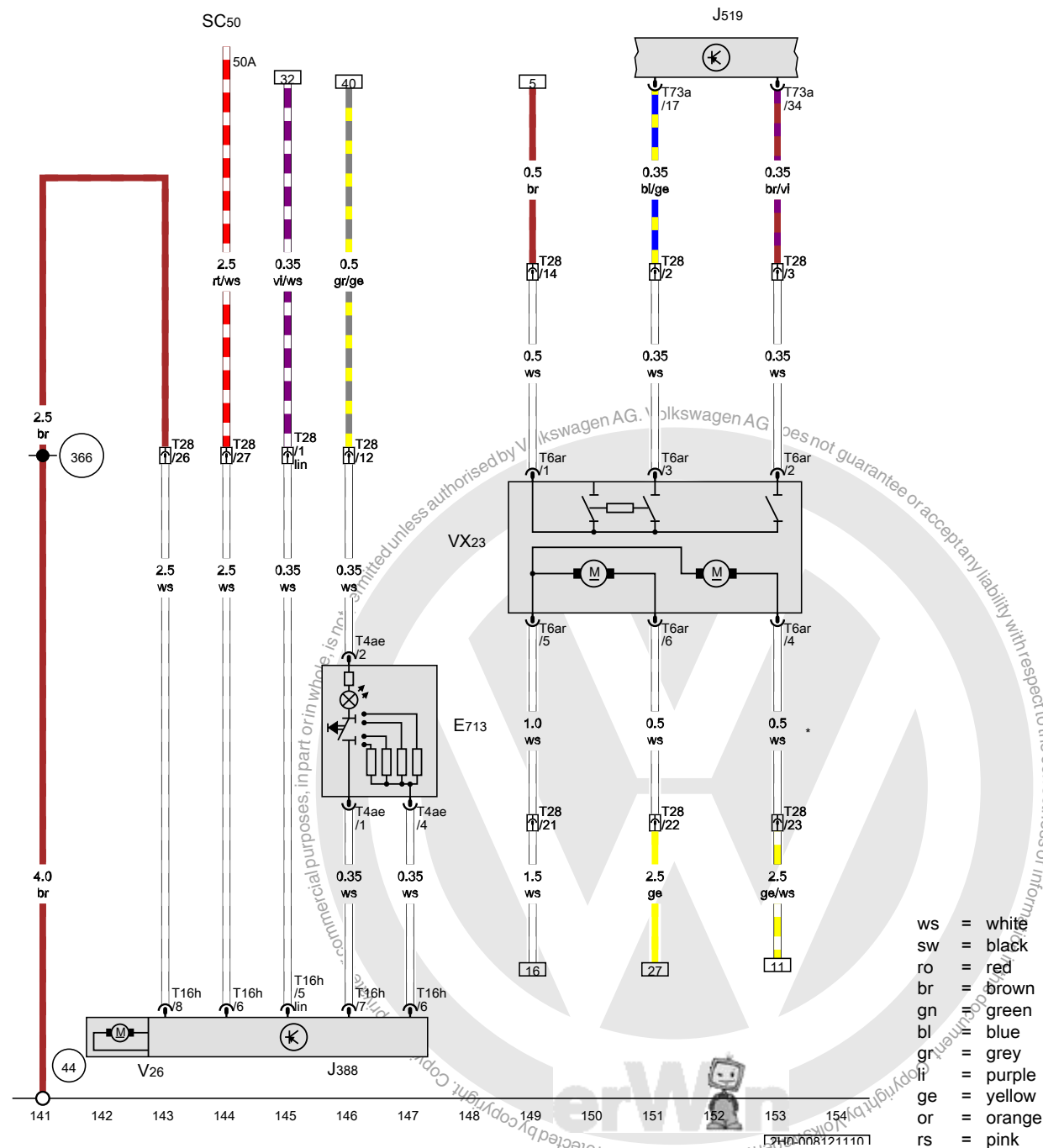
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or = orange  
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### Suppression filter, Onboard supply control unit, Heated exterior mirror on front passenger side

- C10 Suppression filter
- J519 Onboard supply control unit
- T50 5-pin connector
- T6ae 6-pin connector
- T28a 28-pin connector
- T73a 73-pin connector
- V25 Front passenger side mirror adjustment motor
- V150 Front passenger side mirror adjustment motor
- Z5 Heated exterior mirror on front passenger side
- Z4 Positive connection (15a), in mirror adjustment/heating wiring harness
- Z2 Connection 2, in mirror adjustment/heating wiring harness
- R100 Connection 3 in front passenger side door wiring harness
- R99 Connection 2 in front passenger side door wiring harness
- A63 Connection (mirror adjustment/heating), in dash panel wiring harness
- 206 Earth connection, in front passenger door wiring harness





**Rear passenger side window regulator button, Rear left door control unit, Onboard supply control unit, Fuse 50 on fuse holder C, Rear left door lock unit, Rear left window regulator motor**

- |      |   |
|------|---|
| E713 | Rear passenger side window regulator button |
| J388 | Rear left door control unit                 |
| J519 | Onboard supply control unit                 |
| SC50 | Fuse 50 on fuse holder C                    |
| T4ae | 4-pin connector                             |
| T6ar | 6-pin connector                             |
| T16h | 16-pin connector                            |
| T28  | 28-pin connector                            |
| T73a | 73-pin connector                            |
| VX23 | Rear left door lock unit                    |
| V26  | Rear left window regulator motor            |

(44) Earth point, lower part of left A-pillar

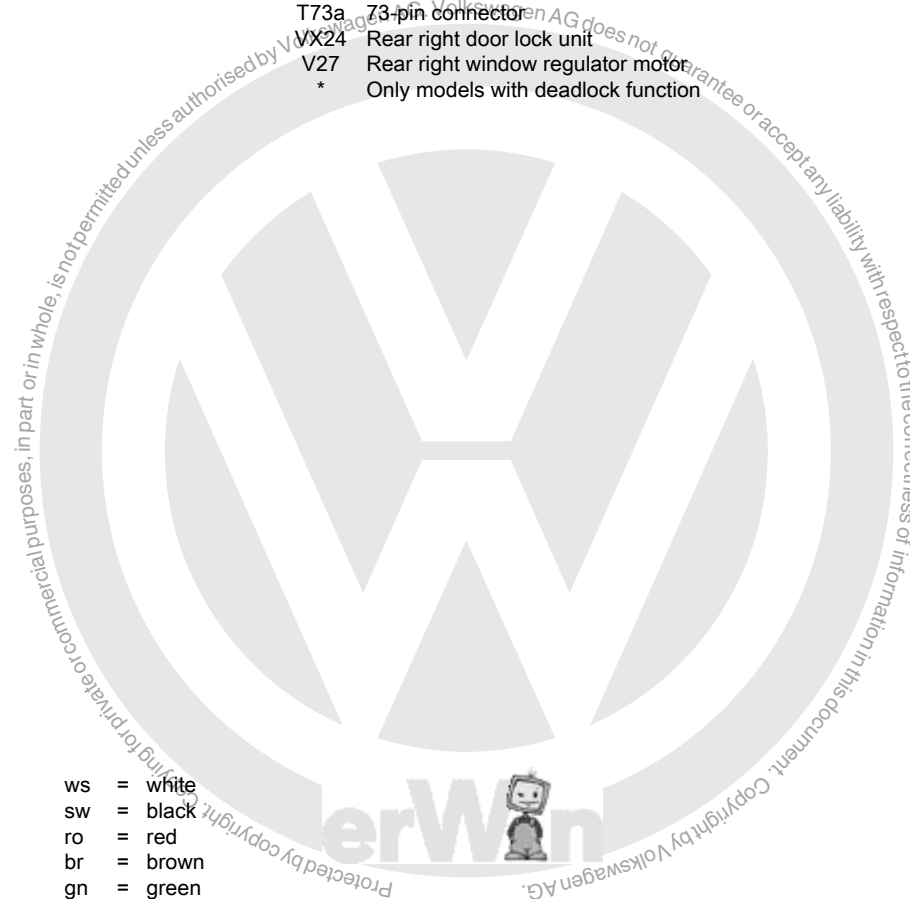
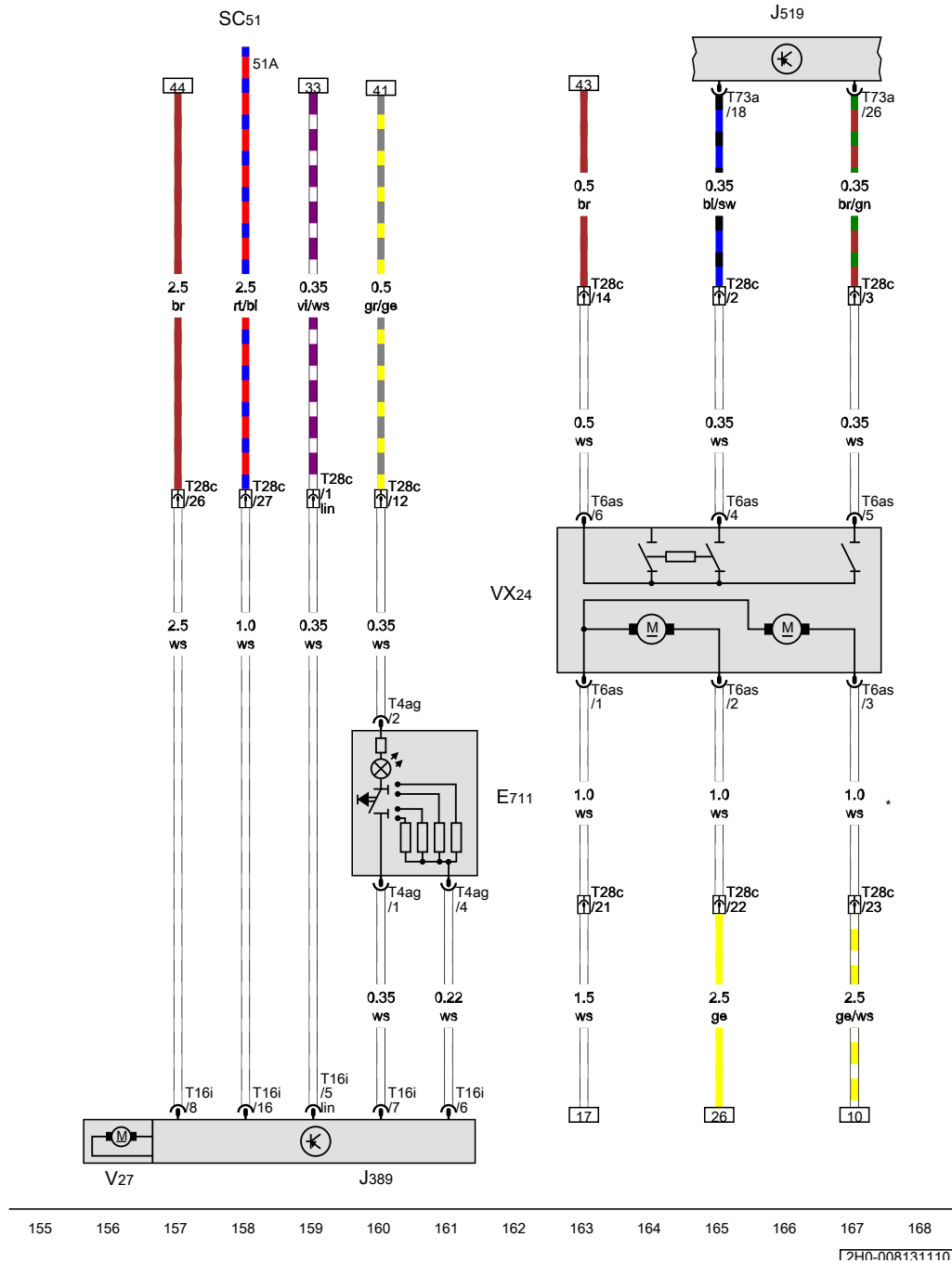
366 Earth connection 1, in main wiring harness

\* Only models with deadlock function

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

Rear driver side window regulator button, Rear right door control unit, Fuse 51 on fuse holder C, Rear right door lock unit, Rear right window regulator motor

- E711 Rear driver side window regulator button
- J389 Rear right door control unit
- J519 Onboard supply control unit
- SC51 Fuse 51 on fuse holder C
- T4ag 4-pin connector
- T6as 6-pin connector
- T16i 16-pin connector
- T28c 28-pin connector
- T73a 73-pin connector
- VX24 Rear right door lock unit
- V27 Rear right window regulator motor
- \* Only models with deadlock function

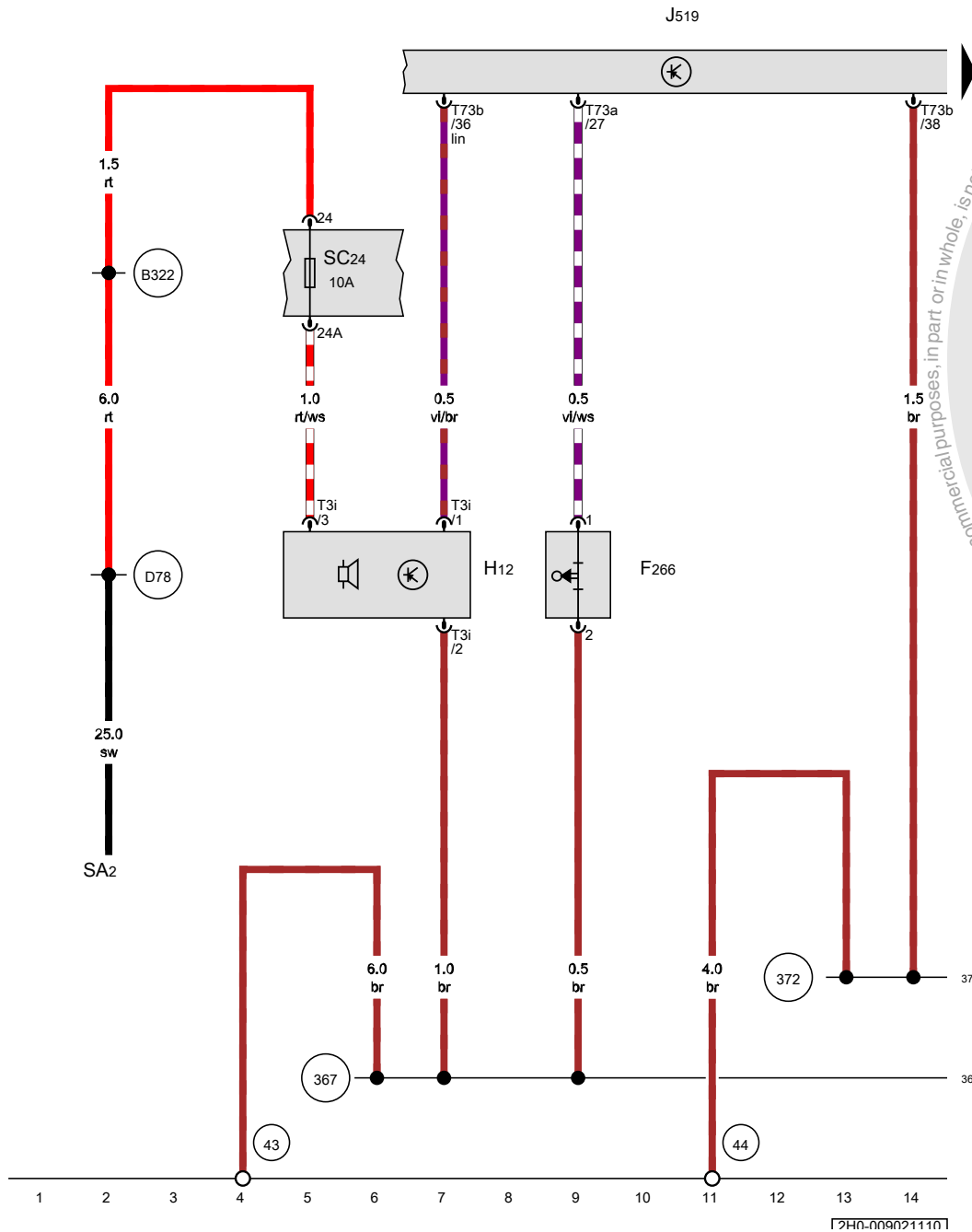


## Anti-theft alarm system

From December 2009



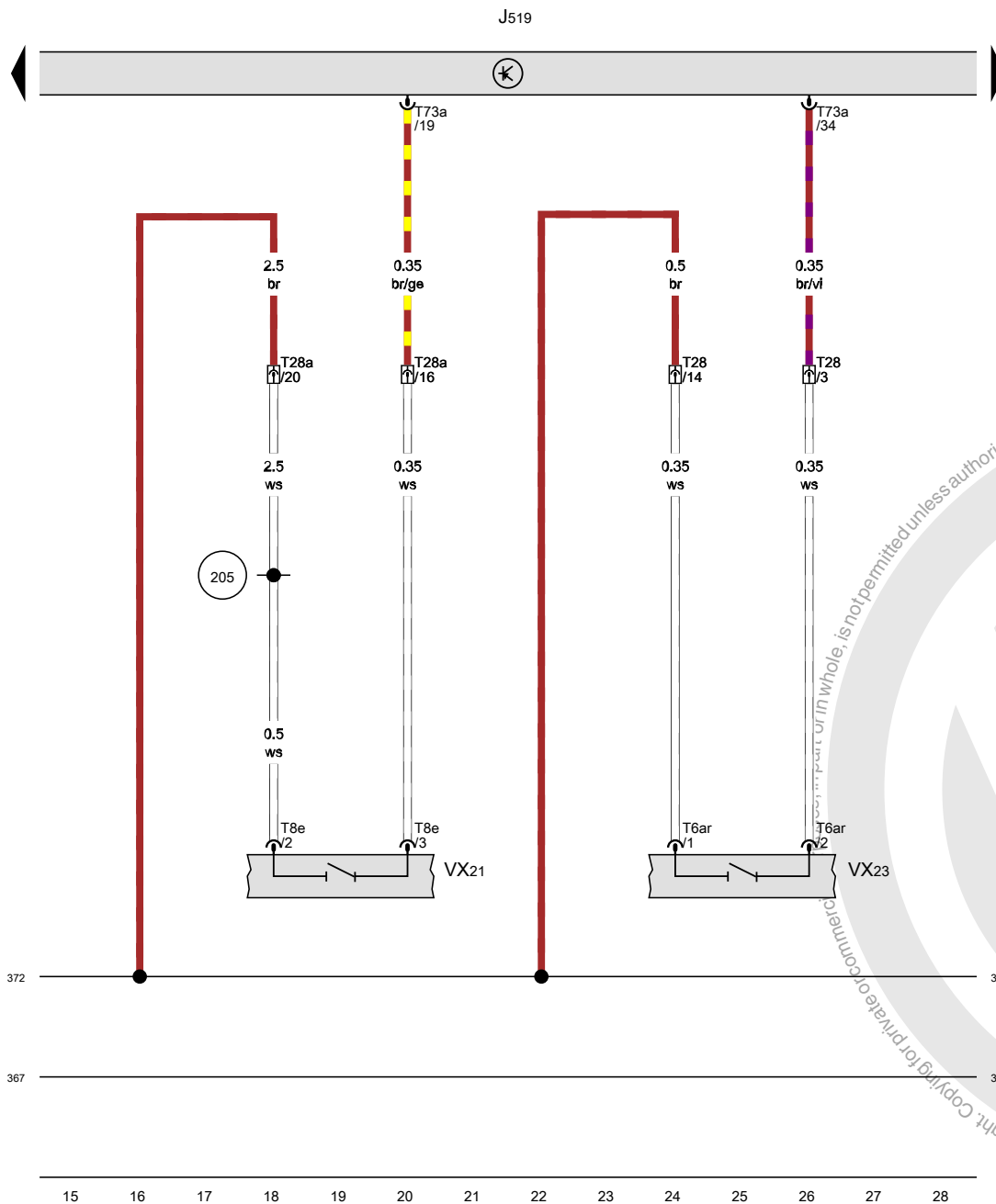
**Bonnet contact switch, Alarm horn, Onboard supply control unit, Fuse 24 on fuse holder C**



- F266 Bonnet contact switch
- H12 Alarm horn
- J519 Onboard supply control unit, near driver side A-pillar
- SA2 Fuse 2 in fuse holder A
- SC24 Fuse 24 on fuse holder C
- T3i 3-pin connector
- T73a 73-pin connector
- T73b 73-pin connector

- 43 Earth point, lower part of right A-pillar
- 44 Earth point, lower part of left A-pillar
- 367 Earth connection 2, in main wiring harness
- 372 Earth connection 7, in main wiring harness
- B322 Positive connection 8 (30a) in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness

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

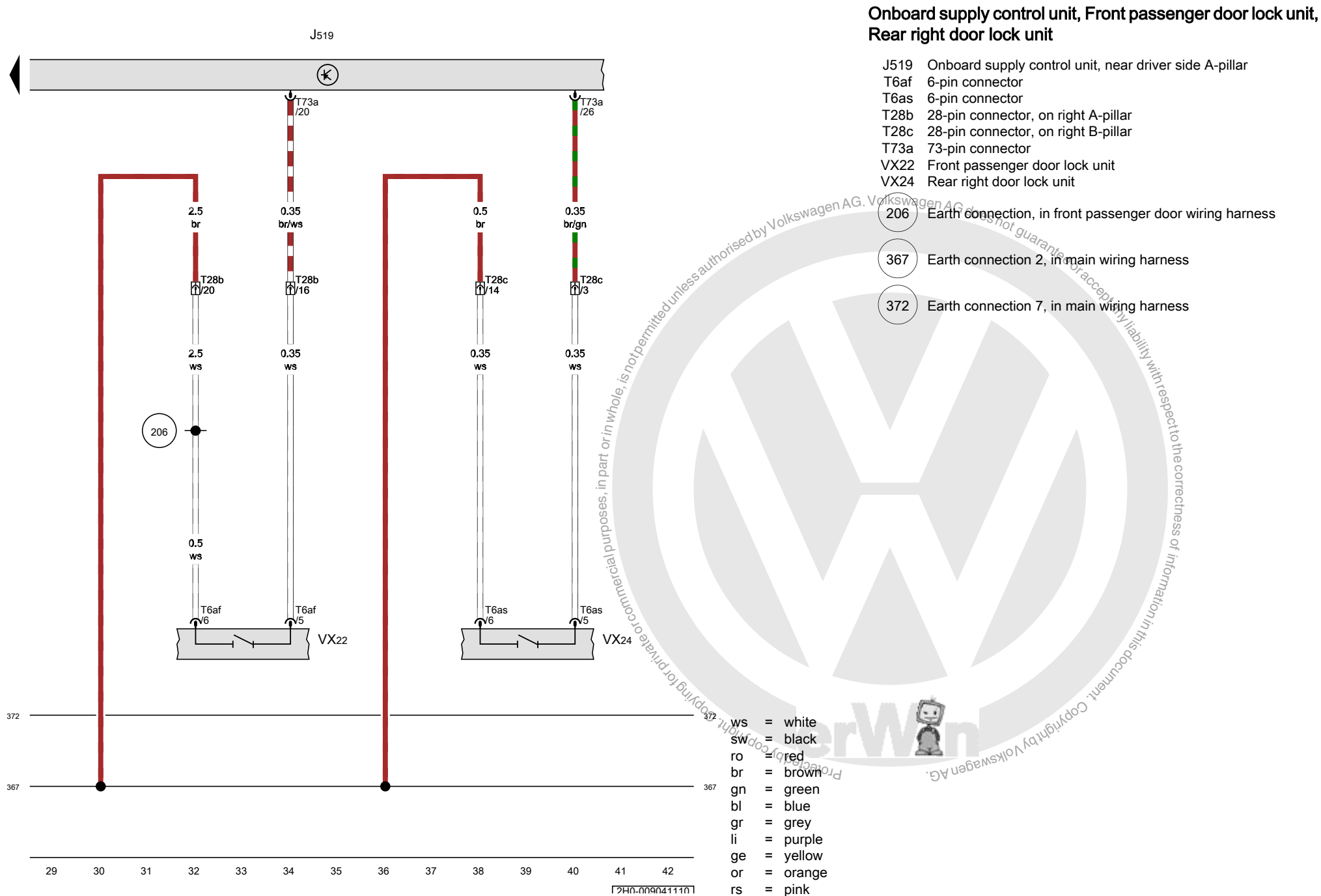


Onboard supply control unit, Driver door lock unit, Rear left door lock unit

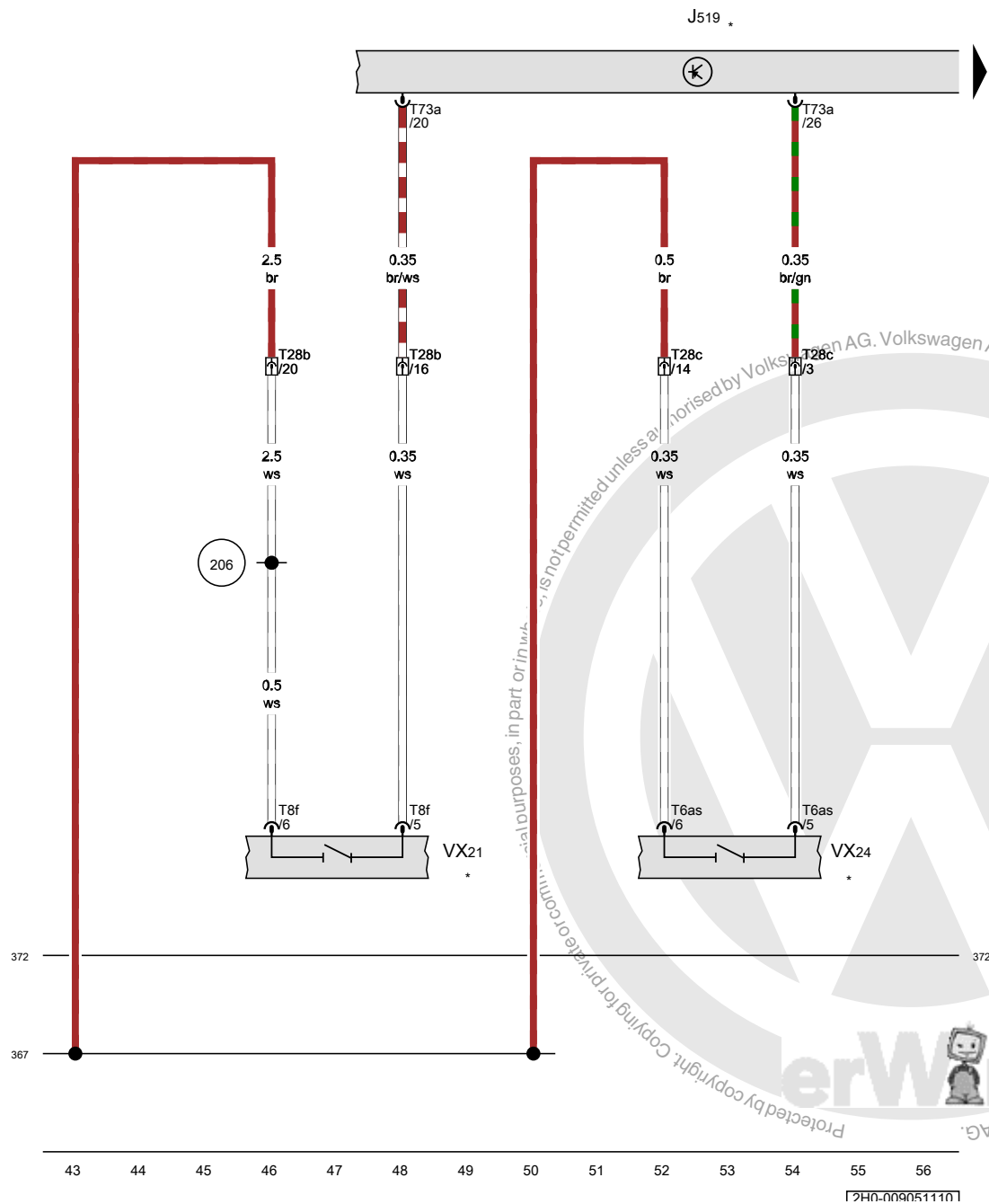
- J519 Onboard supply control unit, near driver side A-pillar
- T6ar 6-pin connector
- T8e 8-pin connector
- T28 28-pin connector, on left B-pillar
- T28a 28-pin connector, on left A-pillar
- T73a 73-pin connector
- VX21 Driver door lock unit
- VX23 Rear left door lock unit

- 205 Earth connection, in driver door wiring harness
- 367 Earth connection 2, in main wiring harness
- 372 Earth connection 7, in main wiring harness

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- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink



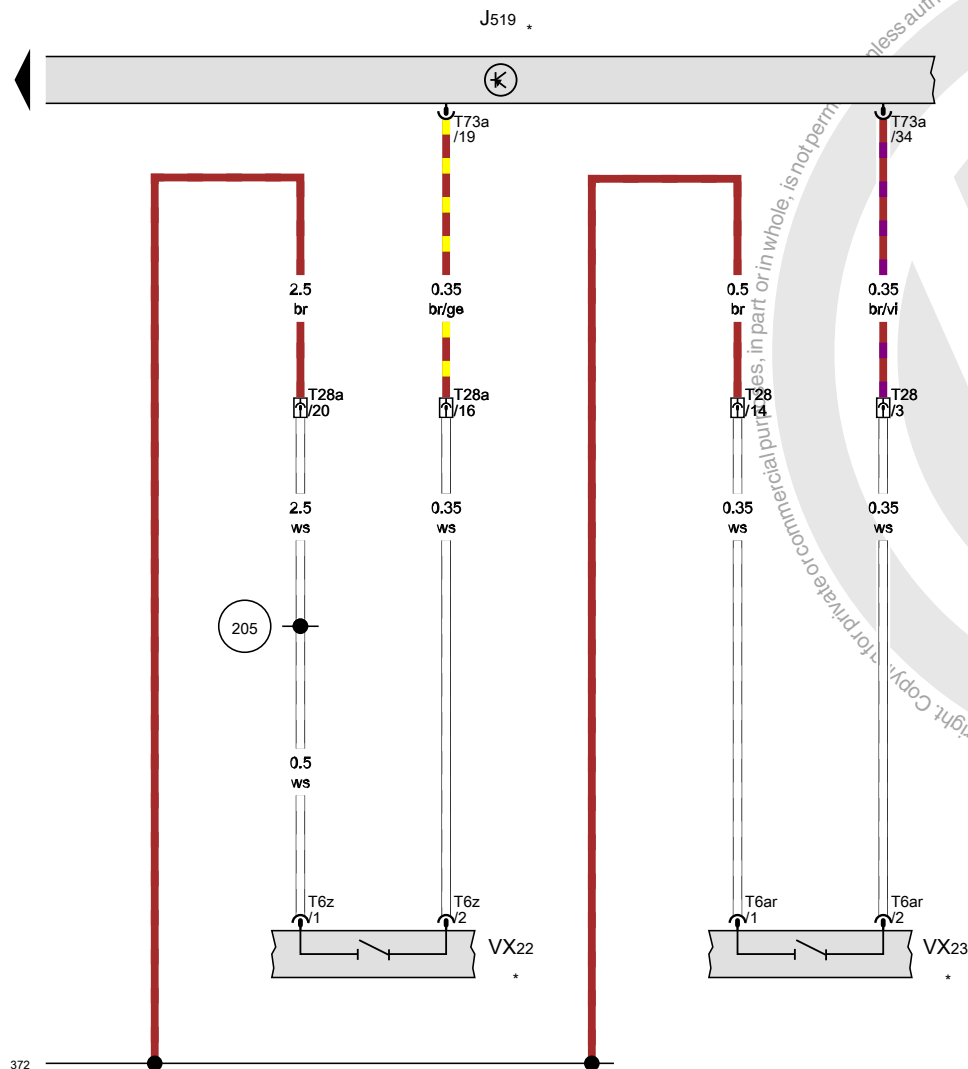
Onboard supply control unit, Rear right door lock unit



- J519 Onboard supply control unit
- T6as 6-pin connector
- T8f 8-pin connector
- T28b 28-pin connector, on right A-pillar
- T28c 28-pin connector, on right B-pillar
- T73a 73-pin connector
- VX21 Driver door lock unit
- VX24 Rear right door lock unit

- 206 Earth connection, in front passenger door wiring harness
- 367 Earth connection 2, in main wiring harness
- 372 Earth connection 7, in main wiring harness
- \* Only right-hand drive models

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



**Onboard supply control unit, Front passenger door lock unit, Rear left door lock unit**

- J519 Onboard supply control unit
- T6ar 6-pin connector
- T6z 6-pin connector
- T28 28-pin connector, on left B-pillar
- T28a 28-pin connector, on left A-pillar
- T73a 73-pin connector
- VX22 Front passenger door lock unit
- VX23 Rear left door lock unit

- 205 Earth connection, in driver door wiring harness
- 372 Earth connection 7, in main wiring harness
- \* Only right-hand drive models

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- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

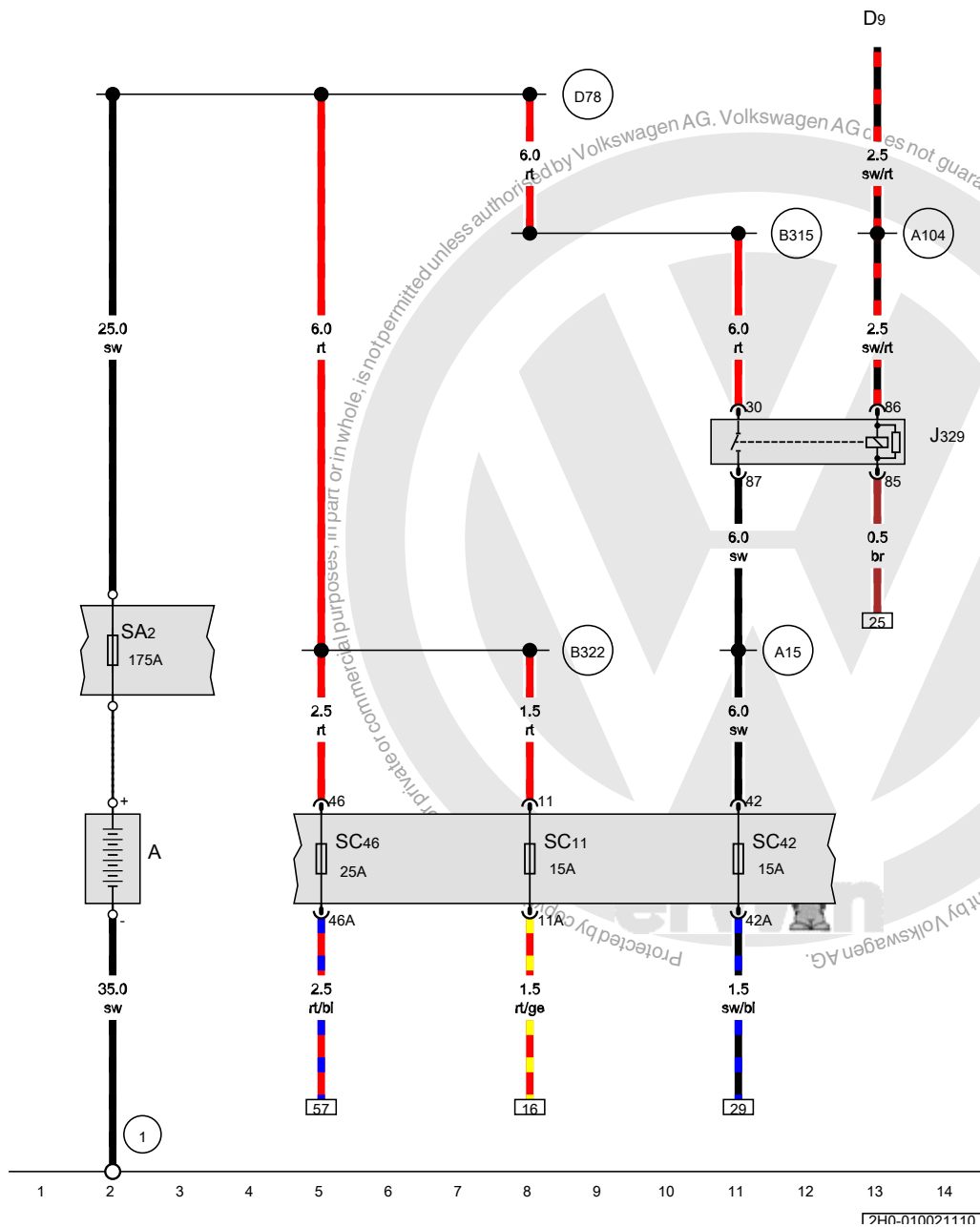


## All-wheel drive

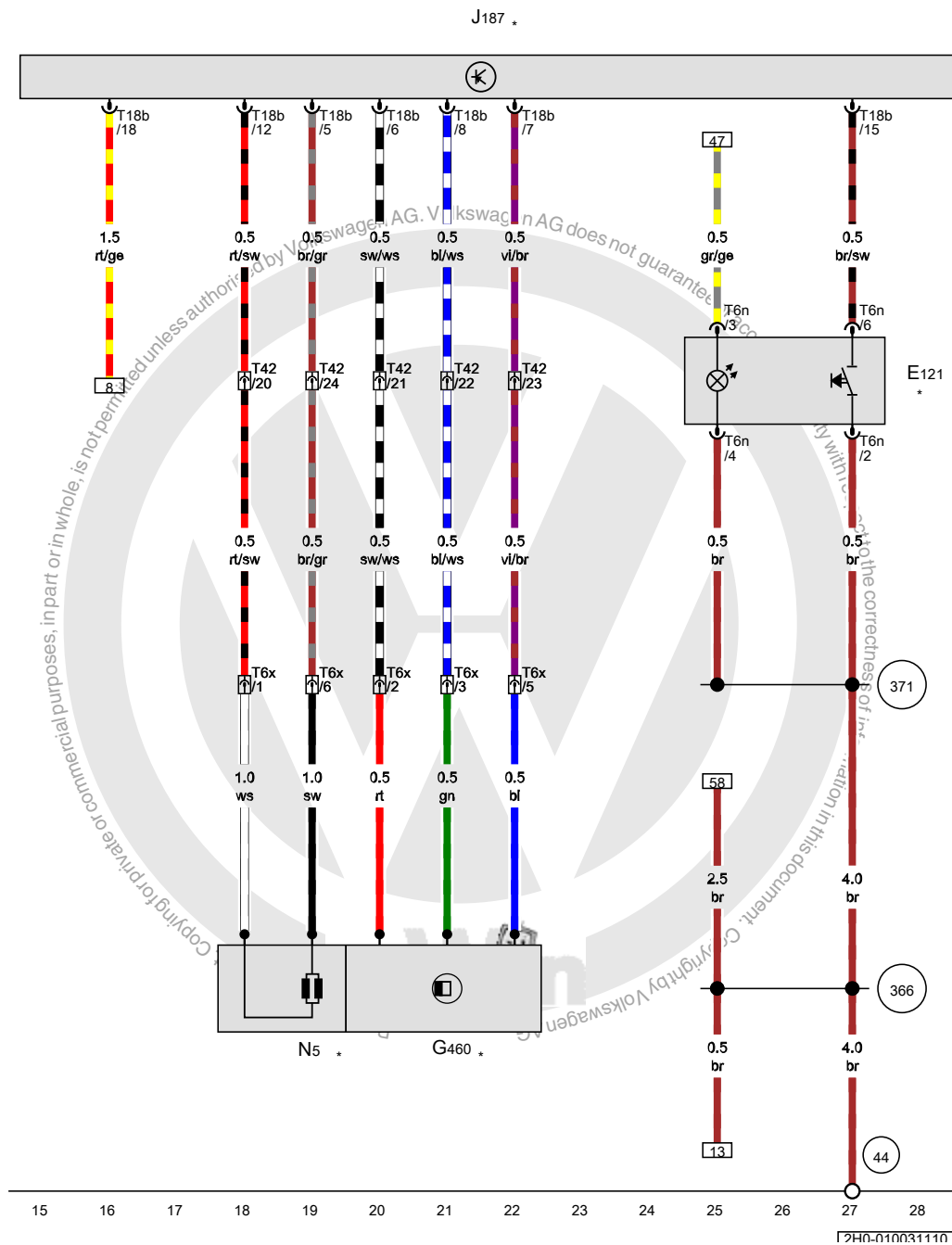
From December 2009



Battery, Terminal 15 voltage supply relay, Fuse 2 in fuse holder A, Fuse 11 on fuse holder C, Fuse 42 on fuse holder C, Fuse 46 on fuse holder C



- A Battery
- D9 Electronic ignition lock
- J329 Terminal 15 voltage supply relay
- SA2 Fuse 2 in fuse holder A
- SC11 Fuse 11 on fuse holder C
- SC42 Fuse 42 on fuse holder C
- SC46 Fuse 46 on fuse holder C
- 1 Earth strap, battery - body
- A15 Positive connection (15), in instrument wiring harness
- A104 Positive connection 2 (15), in dash panel wiring harness
- B315 Positive connection 1 (30a) in main wiring harness
- B322 Positive connection 8 (30a) in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness

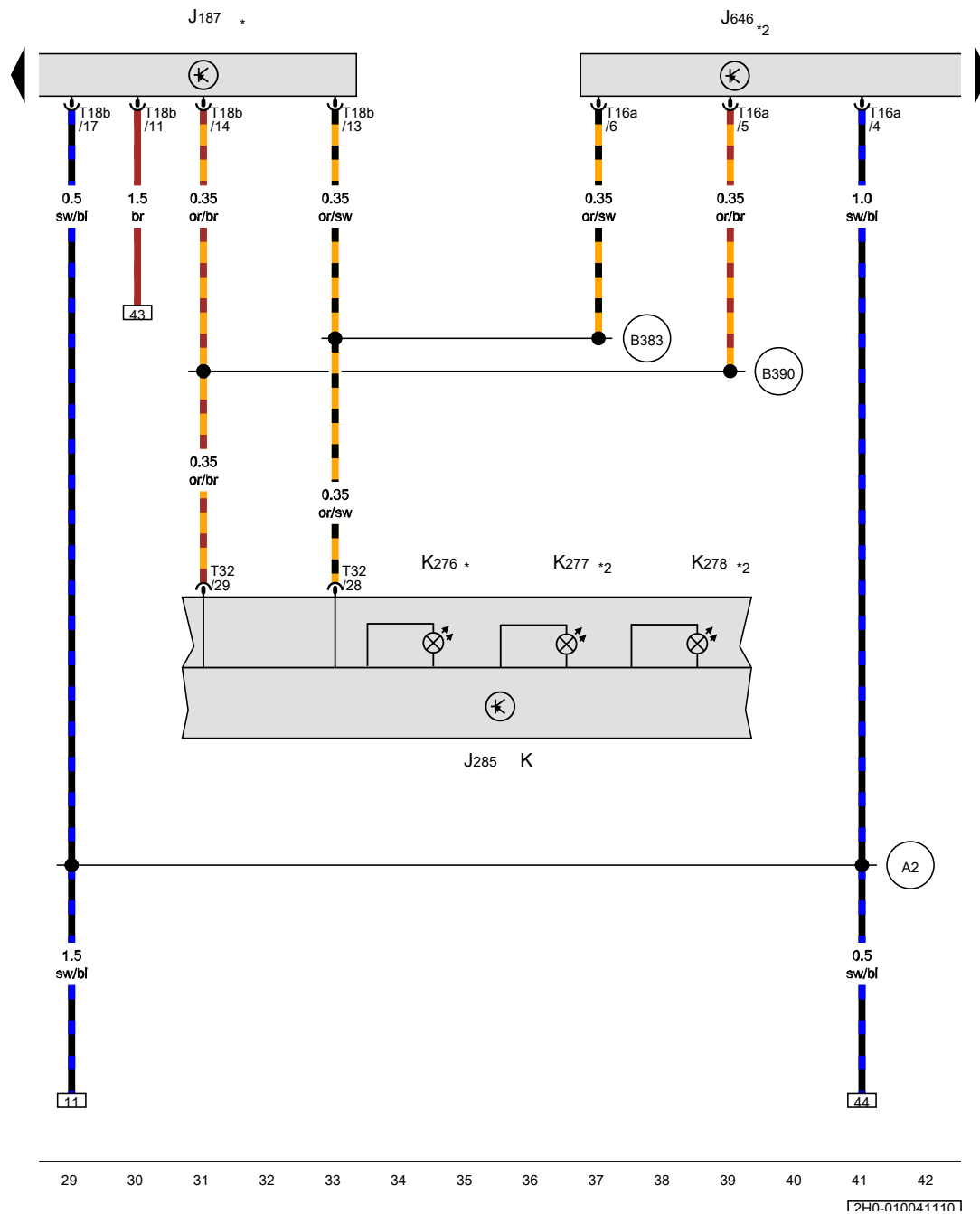


Rear differential lock switch, Axle differential lock Hall sender 1, Differential lock control unit, Control solenoid

- E121 Rear differential lock switch, in centre console
- G460 Axle differential lock Hall sender 1
- J187 Differential lock control unit
- N5 Control solenoid
- T6n 6-pin connector
- T6x 6-pin connector, on rear axle, left
- T18b 18-pin connector
- T42 42-pin connector, near handbrake lever

- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- 371 Earth connection 6, in main wiring harness

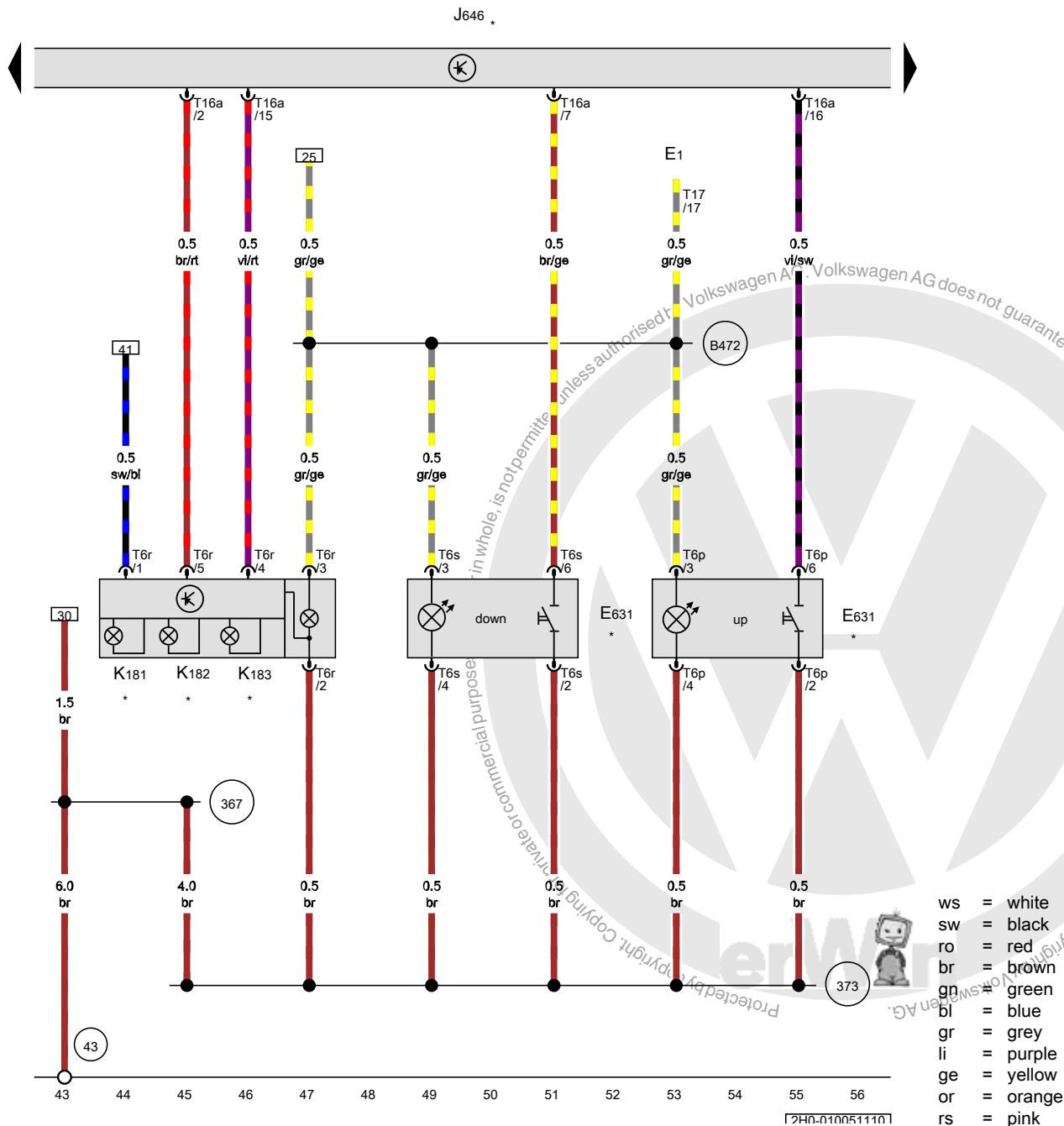
\* Only models with rear differential lock



Differential lock control unit, Control unit in dash panel insert, Transfer box control unit, Rear axle differential lock warning lamp, Reduction gearing warning lamp, Inter-axle lock-up warning lamp

- J187 Differential lock control unit
- J285 Control unit in dash panel insert
- J646 Transfer box control unit
- K Dash panel insert
- K276 Rear axle differential lock warning lamp
- K277 Reduction gearing warning lamp
- K278 Inter-axle lock-up warning lamp
- T16a 16-pin connector
- T18b 18-pin connector
- T32 32-pin connector
- A2 Positive connection (15), in dash panel wiring harness
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- \* Only models with rear differential lock
- \*2 Only models with all-wheel drive

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

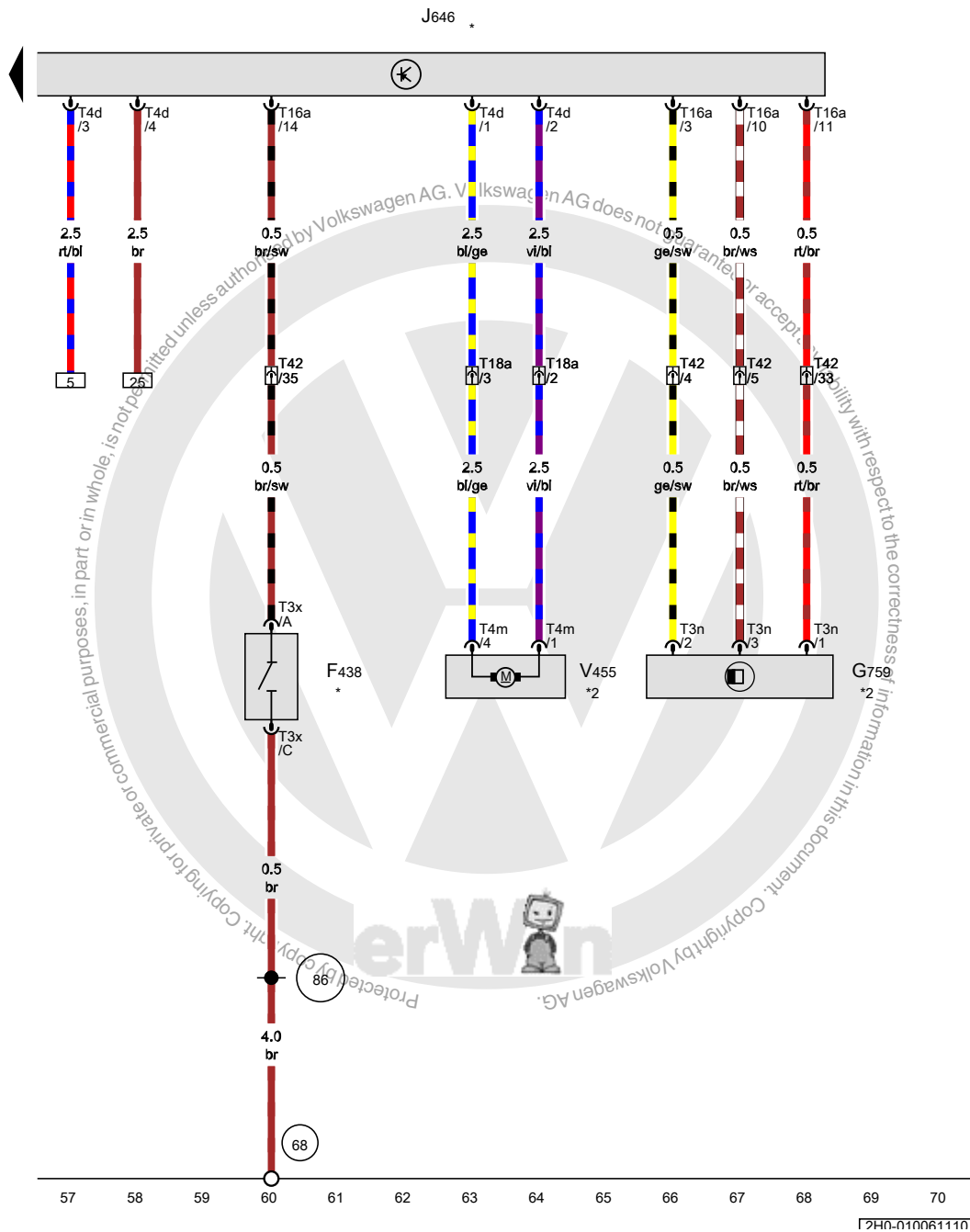


Running gear program switch, Transfer box control unit, Normal operation warning lamp in transfer box operating unit, Reduction gearing warning lamp in transfer box operating unit, Inter-axle lock-up warning lamp in transfer box operating unit

- E1 Light switch
- E631 Running gear program switch, in centre console
- J646 Transfer box control unit
- K181 Normal operation warning lamp in transfer box operating unit
- K182 Reduction gearing warning lamp in transfer box operating unit, in centre console
- K183 Inter-axle lock-up warning lamp in transfer box operating unit
- T6p 6-pin connector
- T6r 6-pin connector
- T6s 6-pin connector
- T16a 16-pin connector
- T17 17-pin connector

- 43 Earth point, lower part of right A-pillar
- 367 Earth connection 2, in main wiring harness
- 373 Earth connection 8, in main wiring harness
- B472 Connection 8, in main wiring harness
- \* Only models with all-wheel drive

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 rs = pink



Transfer box inter-axe lock-up switch, Hall sender for transfer box, Transfer box control unit, Transfer box control motor

- F438 Transfer box inter-axe lock-up switch
- G759 Hall sender for transfer box, on rear axle, left
- J646 Transfer box control unit
- T3n 3-pin connector
- T3x 3-pin connector
- T4d 4-pin connector
- T4m 4-pin connector
- T16a 16-pin connector
- T18a 18-pin connector, near engine control unit
- T42 42-pin connector, near handbrake lever
- V455 Transfer box control motor, on rear axle, left

68 Earth point, on left of rear cross member

86 Earth connection 1, in rear wiring harness

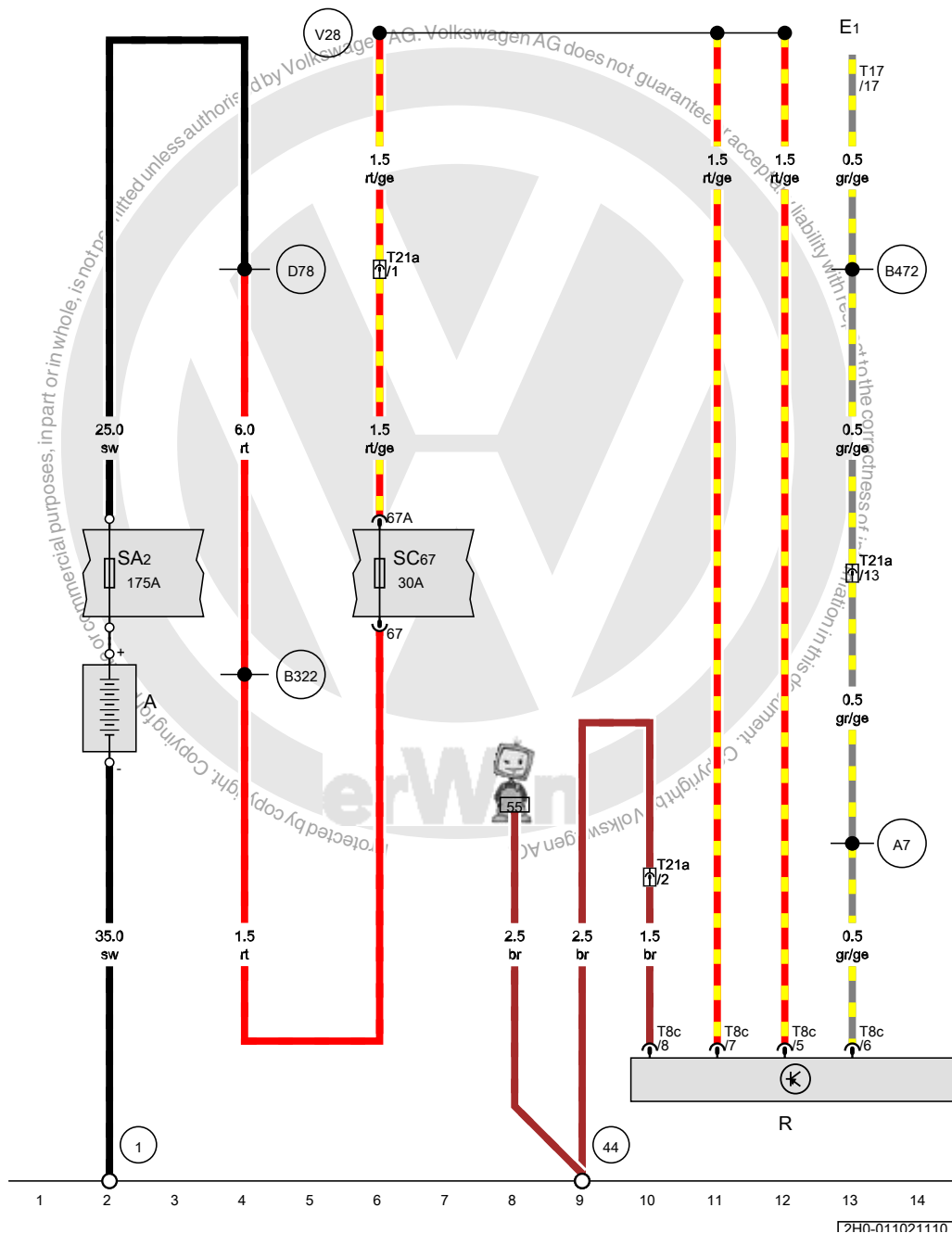
\* Only models with all-wheel drive  
\*2 with auxiliary drive (part time)

## Radio system , (8AN),(8AG)

From December 2009



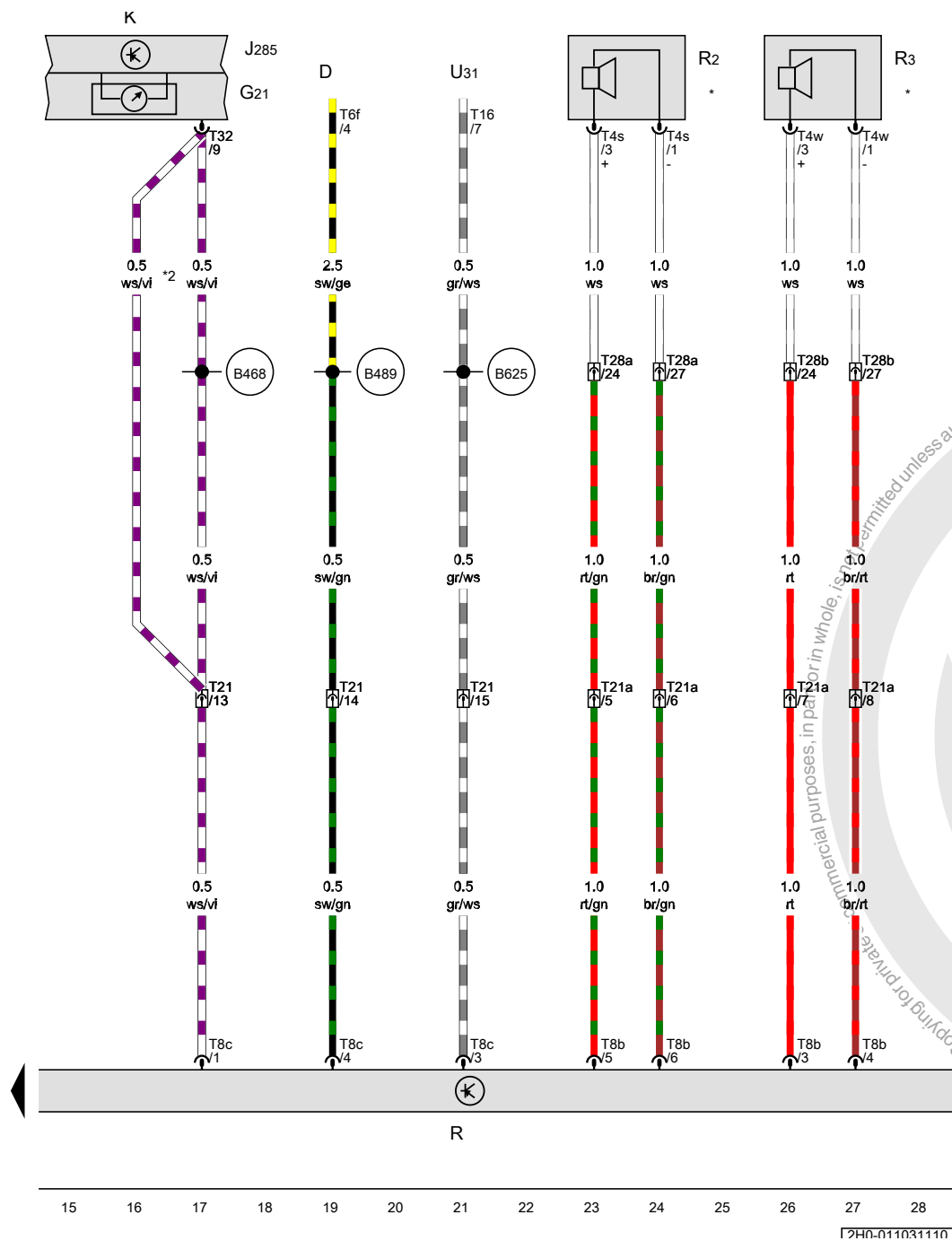
Battery, Light switch, Radio, Fuse 2 in fuse holder A, Fuse 67 on fuse holder C



- A Battery
- E1 Light switch
- R Radio
- SA2 Fuse 2 in fuse holder A
- SC67 Fuse 67 on fuse holder C
- T8c 8-pin connector
- T17 17-pin connector
- T21a 21-pin connector, on relay carrier

- 1 Earth strap, battery - body
- 44 Earth point, lower part of left A-pillar
- A7 Positive connection (58 D1), in dash panel wiring harness
- B322 Positive connection 8 (30a) in main wiring harness
- B472 Connection 8, in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness
- V28 Connection 1, in radio wiring harness

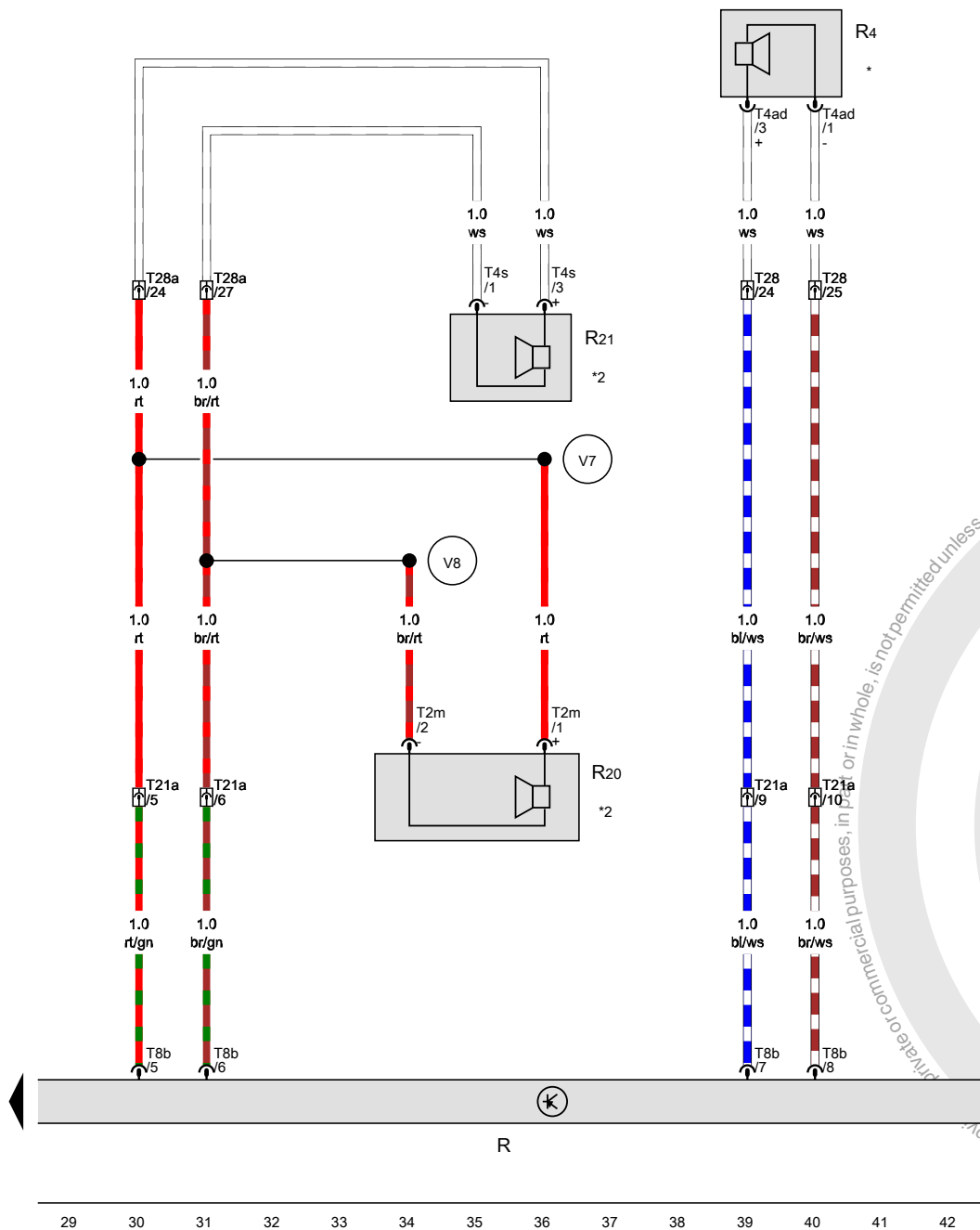




Ignition/starter switch, Dash panel insert, Radio, Front left loudspeaker, Front right loudspeaker, Diagnostic connection

- D Ignition/starter switch
- G21 Speedometer
- J285 Control unit in dash panel insert
- K Dash panel insert
- R Radio
- R2 Front left loudspeaker
- R3 Front right loudspeaker
- T4s 4-pin connector
- T4w 4-pin connector
- T6f 6-pin connector
- T8b 8-pin connector
- T8c 8-pin connector
- T16 16-pin connector
- T21 21-pin connector, on relay carrier
- T21a 21-pin connector, on relay carrier
- T28a 28-pin connector, in left A-pillar
- T28b 28-pin connector, on right A-pillar
- T32 32-pin connector
- U31 Diagnostic connection
- B468 Connection 4, in main wiring harness
- B489 Connection 25, in main wiring harness
- B625 Connection (K-diagnosis wire), in main wiring harness
- \* Only models with 2 loudspeakers (8RD)
- \*2 Only models with no electric interface

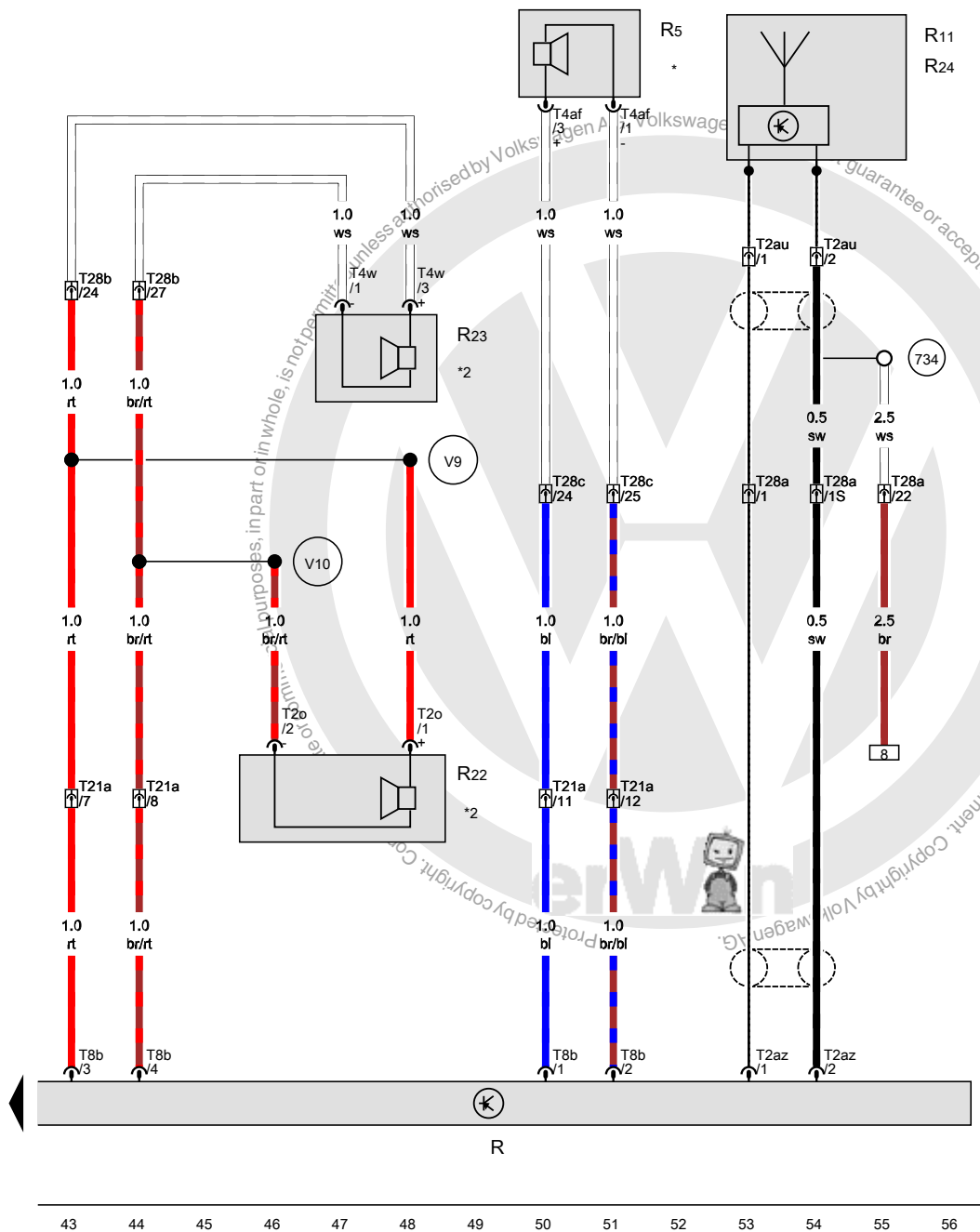
ws = white  
 sw = black  
 ro = red  
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 gn = green  
 bl = blue  
 gr = grey  
 li = purple  
 ge = yellow  
 or = orange  
 rs = pink



Radio, Rear left loudspeaker, Front left treble loudspeaker, Front left bass loudspeaker

- R Radio
- R4 Rear left loudspeaker
- R20 Front left treble loudspeaker
- R21 Front left bass loudspeaker
- T2m 2-pin connector
- T4ad 4-pin connector
- T4s 4-pin connector
- T8b 8-pin connector
- T21a 21-pin connector, on relay carrier
- T28 28-pin connector
- T28a 28-pin connector, on left A-pillar
- V7 Connection (positive, front left loudspeaker), in loudspeaker wiring harness
- V8 Connection (negative, front left loudspeaker), in loudspeaker wiring harness
- \* Only models with equipment (6-passive loudspeakers)
- \*2 Only models with 4 loudspeakers (8RE)

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



Radio, Rear right loudspeaker, Aerial, Front right treble loudspeaker, Front right bass loudspeaker, Aerial amplifier

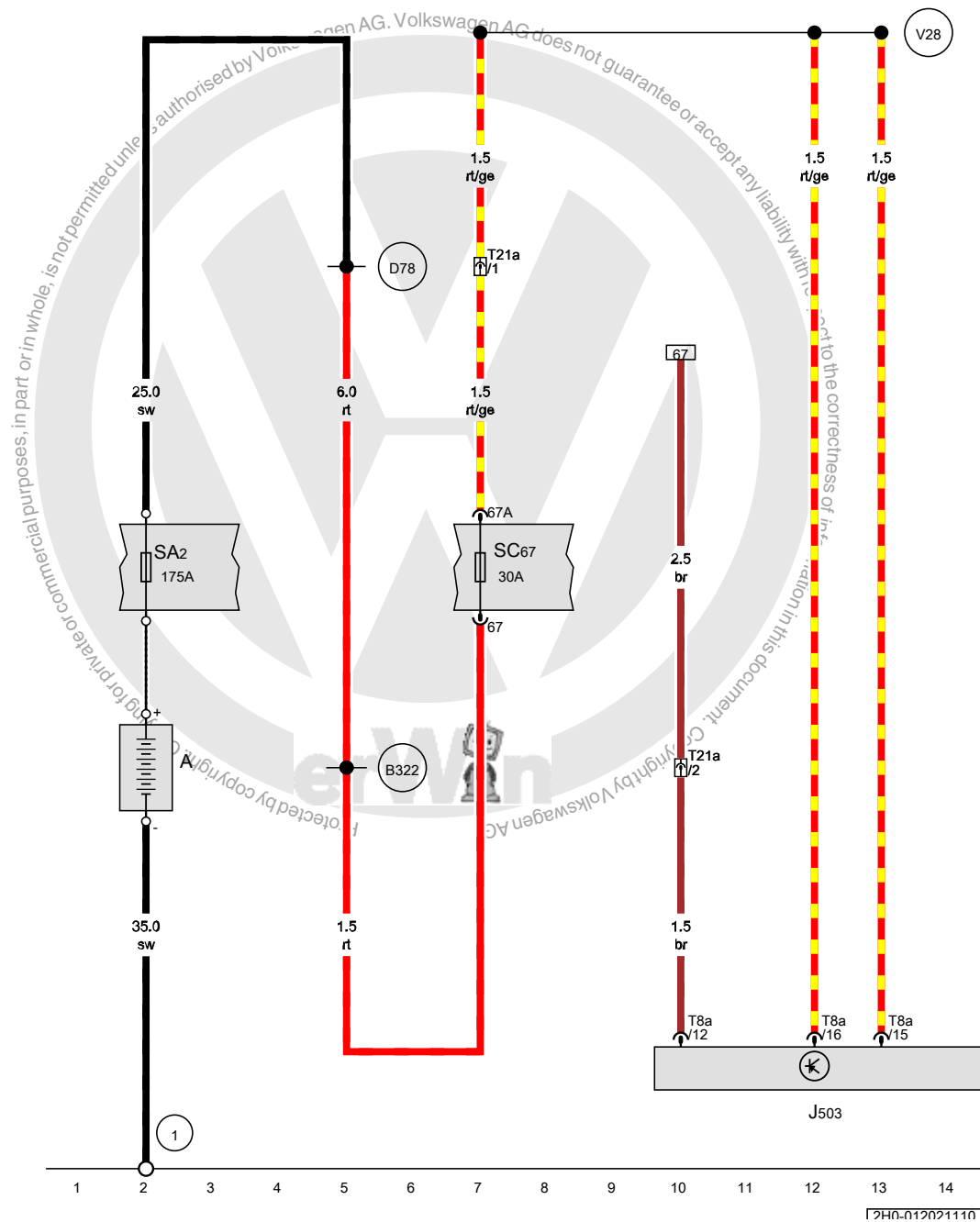
- R Radio
- R5 Rear right loudspeaker
- R11 Aerial
- R22 Front right treble loudspeaker
- R23 Front right bass loudspeaker
- R24 Aerial amplifier
- T2au 2-pin connector, in left door
- T2az 2-pin connector
- T2o 2-pin connector
- T4af 4-pin connector
- T4w 4-pin connector
- T8b 8-pin connector
- T21a 21-pin connector, on relay carrier
- T28a 28-pin connector, on left A-pillar
- T28b 28-pin connector, on right A-pillar
- T28c 28-pin connector, on right B-pillar
- 734 Earth point in front left door
- V9 Connection (positive, front right loudspeaker), in loudspeaker wiring harness
- V10 Connection (negative, front right loudspeaker), in loudspeaker wiring harness
- \* Only models with equipment (6-passive loudspeakers)
- \*2 Only models with 4 loudspeakers (8RE)

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

## Radio navigation system , (8AY),(7UC),(7UK)

From December 2009



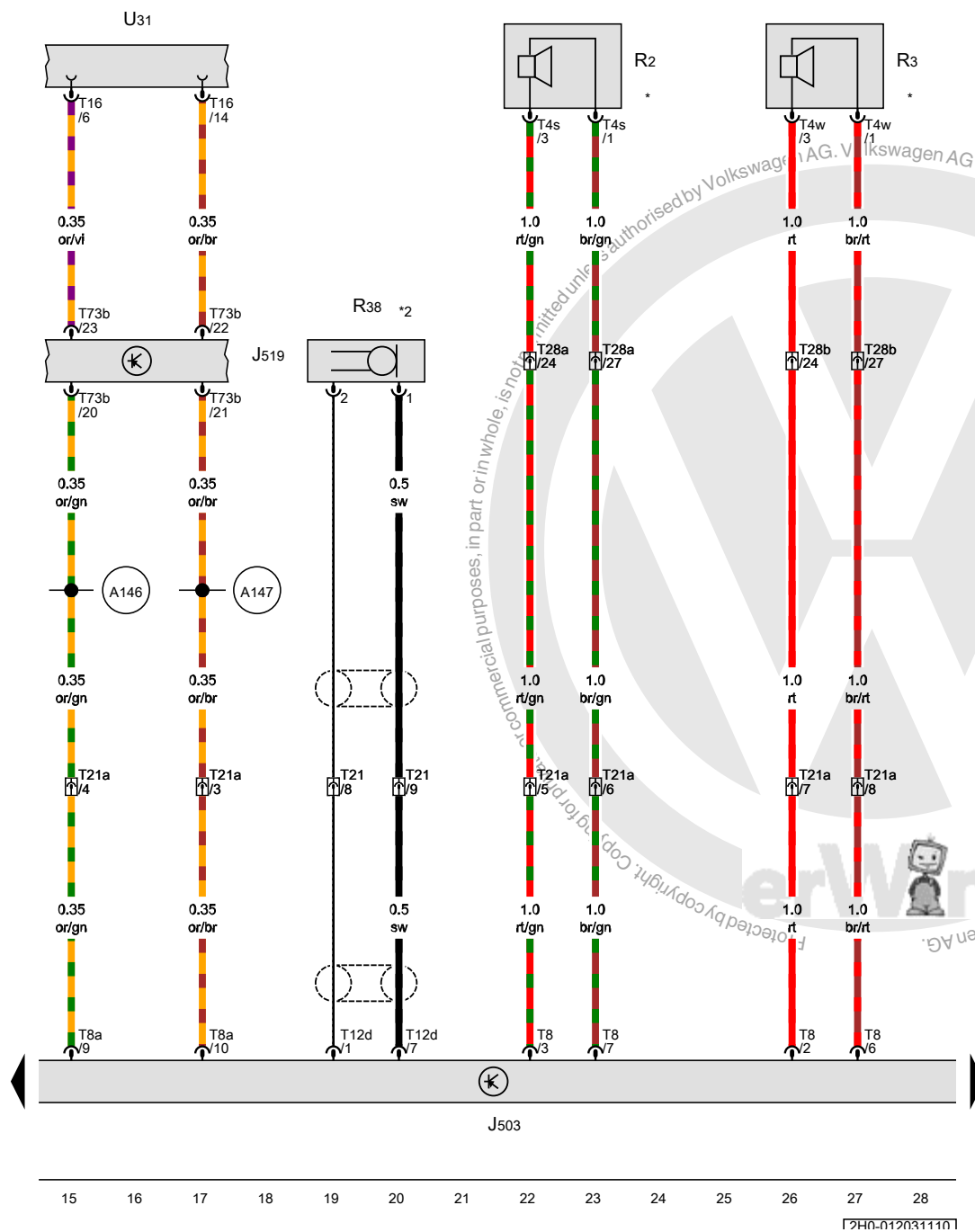


Battery, Control unit with display for radio and navigation,  
Fuse 2 in fuse holder A, Fuse 67 on fuse holder C

- A Battery
- J503 Control unit with display for radio and navigation
- SA2 Fuse 2 in fuse holder A
- SC67 Fuse 67 on fuse holder C
- T8a 8-pin connector
- T21a 21-pin connector

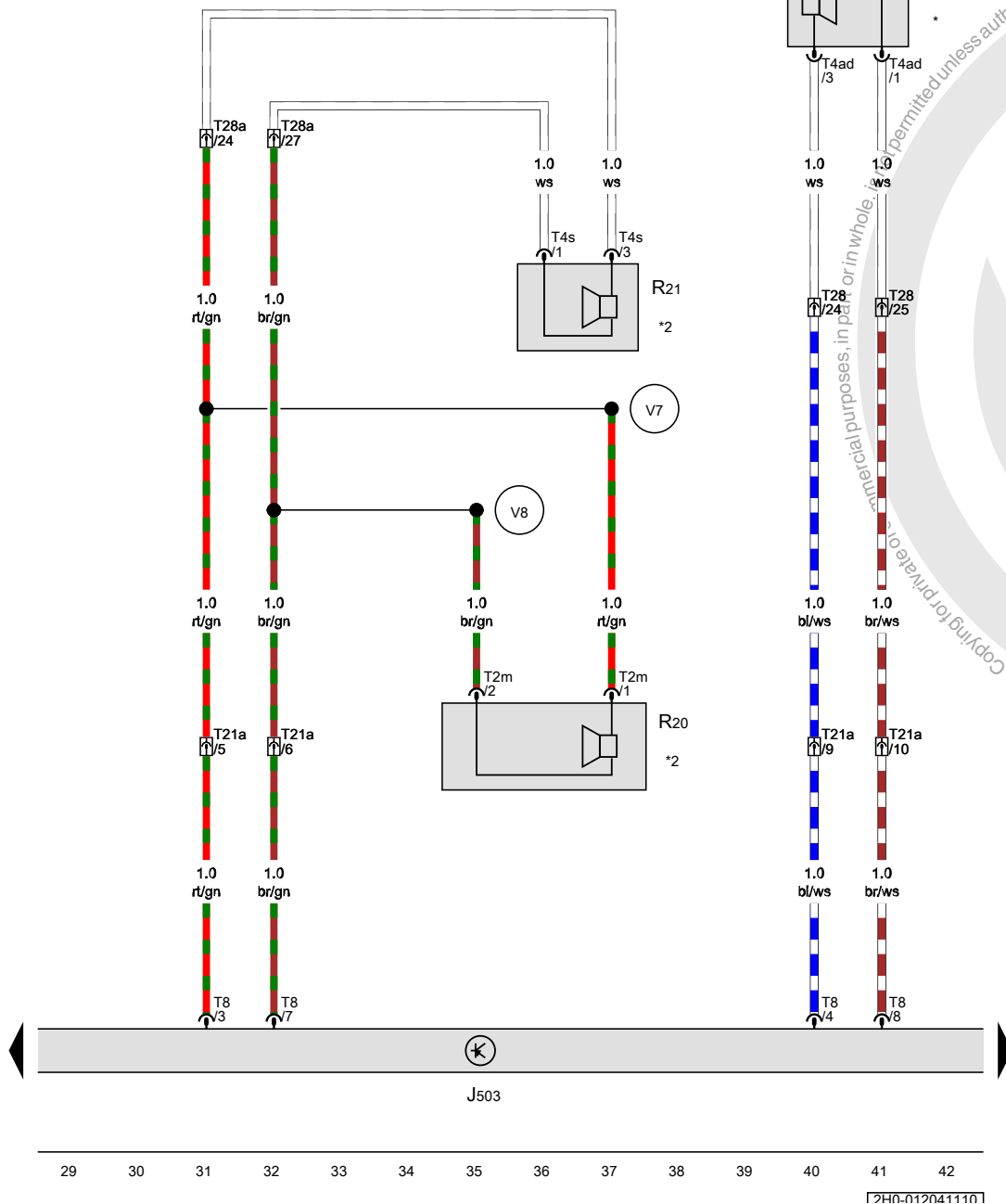
- 1 Earth strap, battery - body
- B322 Positive connection 8 (30a) in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness
- V28 Connection 1, in radio wiring harness

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



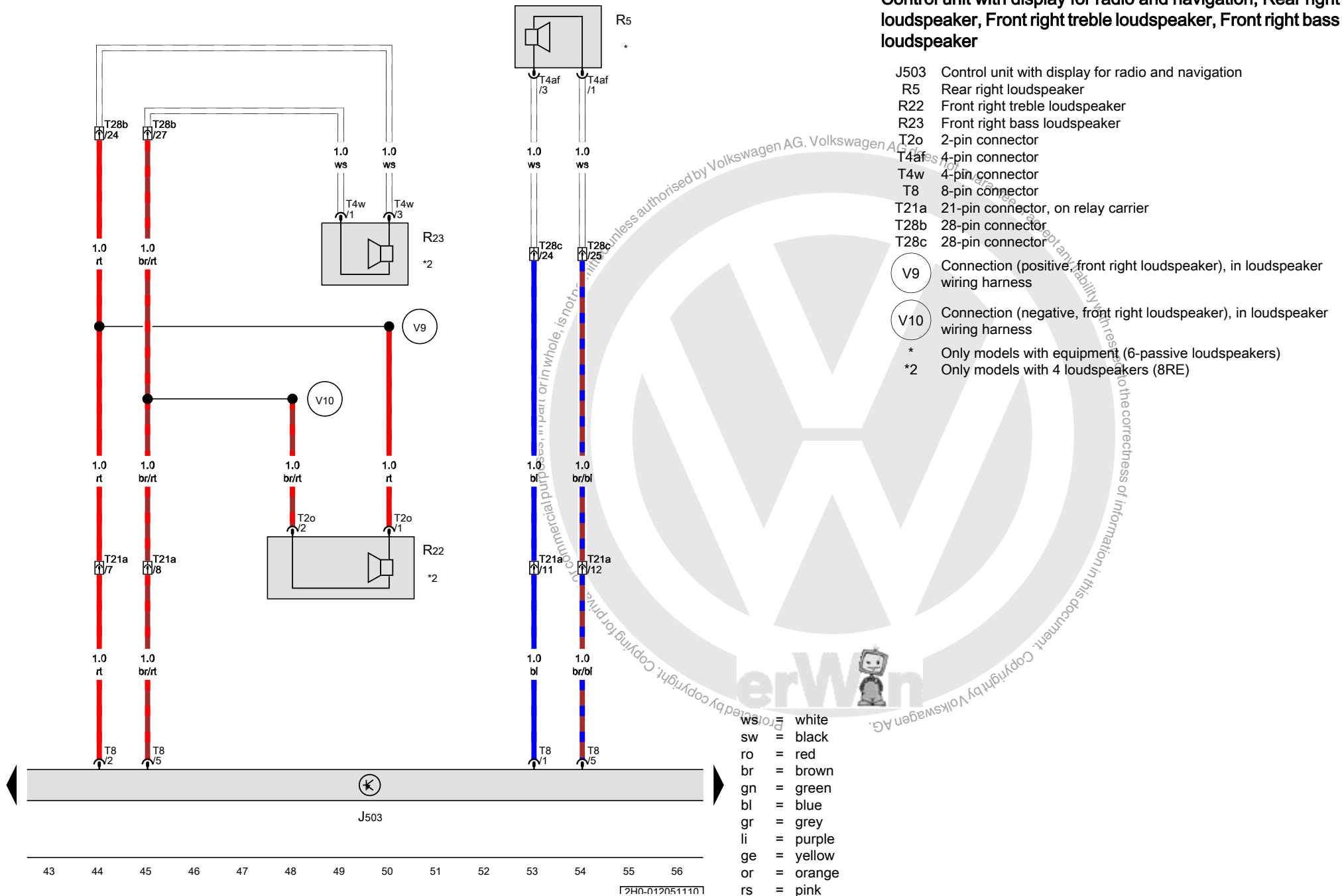
Control unit with display for radio and navigation, Front left loudspeaker, Front right loudspeaker, Telephone microphone, Diagnostic connection

- J503 Control unit with display for radio and navigation
- J519 Onboard supply control unit
- R2 Front left loudspeaker
- R3 Front right loudspeaker
- R38 Telephone microphone
- T4s 4-pin connector
- T4w 4-pin connector
- T8 8-pin connector
- T8a 8-pin connector
- T12d 12-pin connector
- T16 16-pin connector
- T21 21-pin connector, on relay carrier
- T21a 21-pin connector, on relay carrier
- T28a 28-pin connector
- T28b 28-pin connector
- T73b 73-pin connector
- U31 Diagnostic connection
- A146 Connection (convenience CAN bus, high), in dash panel wiring harness
- A147 Connection (convenience CAN bus, low), in dash panel wiring harness
- \* Only models with 2 loudspeakers (8RD)
- \*2 Only models with mobile telephone/ preparation for mobile telephone

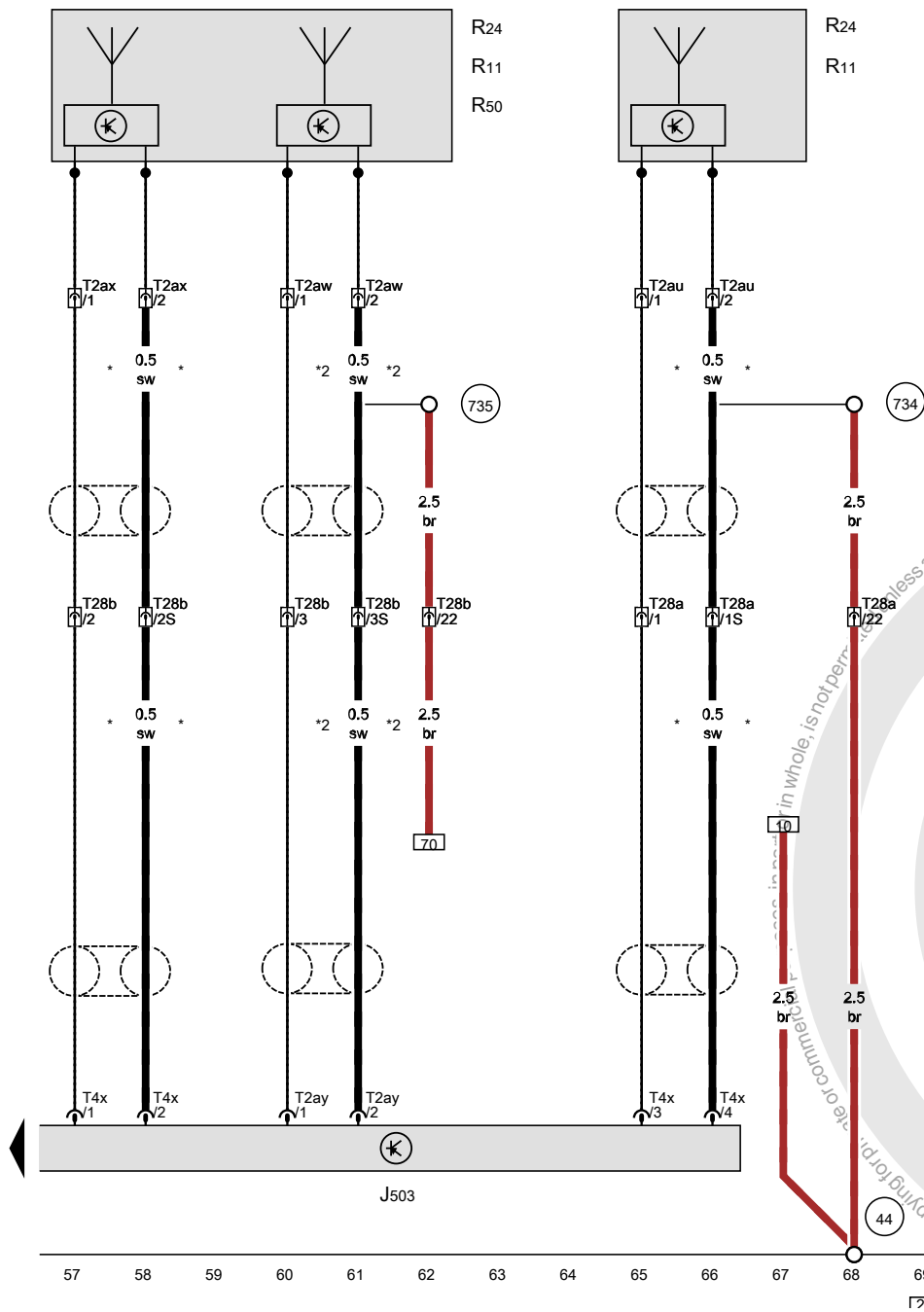


# Control unit with display for radio and navigation, Rear left loudspeaker, Front left treble loudspeaker, Front left bass loudspeaker

- J503 Control unit with display for radio and navigation
- R4 Rear left loudspeaker
- R20 Front left treble loudspeaker
- R21 Front left bass loudspeaker
- T2m 2-pin connector
- T4ad 4-pin connector
- T4s 4-pin connector
- T8 8-pin connector
- T21a 21-pin connector, on relay carrier
- T28 28-pin connector
- T28a 28-pin connector
- V7 Connection (positive, front left loudspeaker), in loudspeaker wiring harness
- V8 Connection (negative, front left loudspeaker), in loudspeaker wiring harness
- \* Only models with equipment (6-passive loudspeakers)
- \*2 Only models with 4 loudspeakers (8RE)







# Control unit with display for radio and navigation, Aerial, Aerial amplifier, GPS aerial

- J503 Control unit with display for radio and navigation
- R11 Aerial
- R24 Aerial amplifier
- R50 GPS aerial
- T2au 2-pin connector, in left door, near exterior mirror
- T2aw 2-pin connector, in right door, near exterior mirror
- T2ax 2-pin connector, in right door, near exterior mirror
- T2ay 2-pin connector
- T4x 4-pin connector
- T28a 28-pin connector, on left A-pillar
- T28b 28-pin connector, on right A-pillar

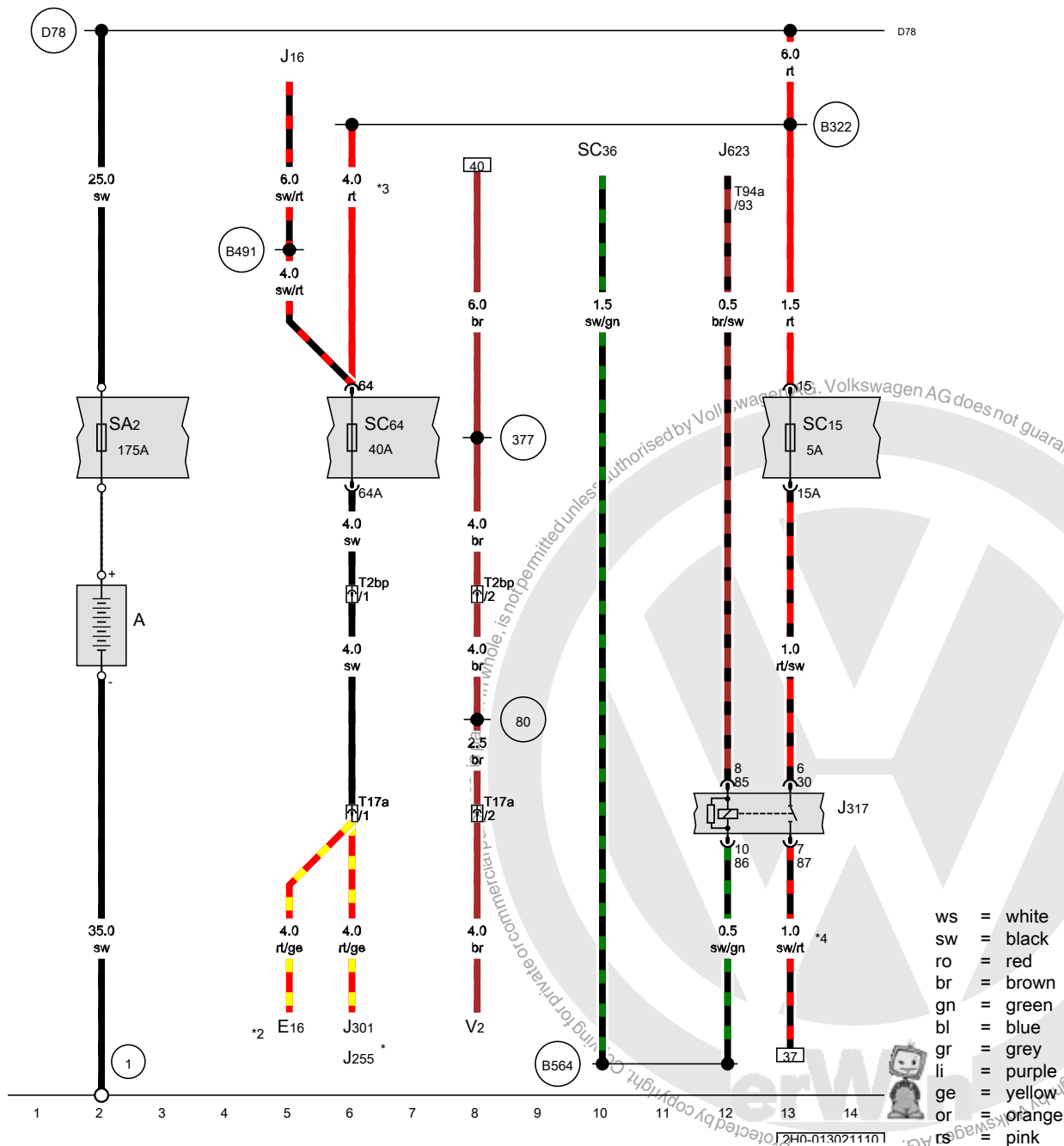
- 43 Earth point, lower part of right A-pillar
- 44 Earth point, lower part of left A-pillar
- 734 Earth point in front left door
- 735 Earth point in front right door
- \* Aerial connection for radio
- \*2 Aerial connection for GPS

**Auxiliary coolant heater, supplementary heater, supplementary heater which can be operated independently , CDBA , CDCA**

From December 2009



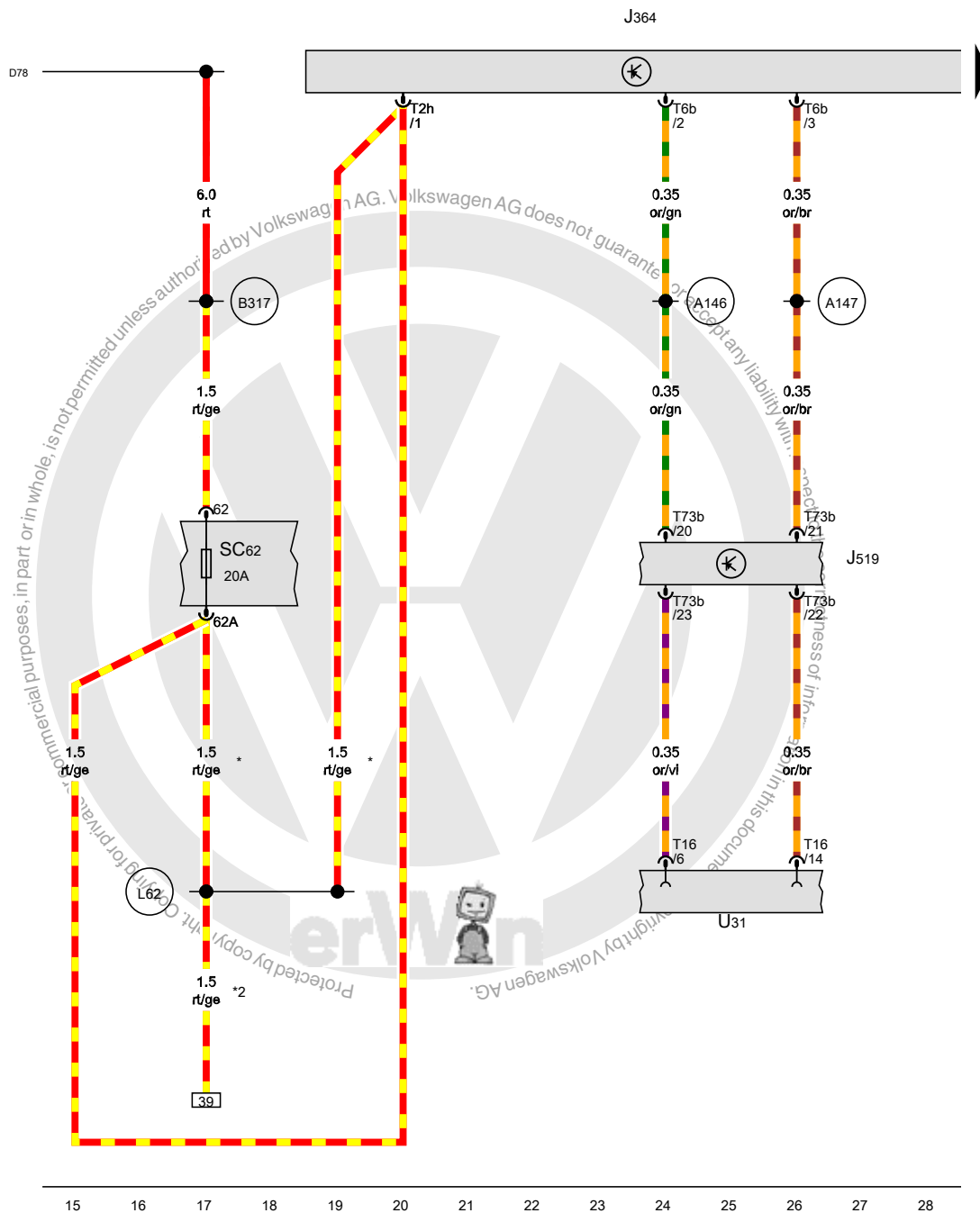
Battery, Engine control unit, Fuse 2 in fuse holder A, Fuse 15 on fuse holder C, Fuse 36 on fuse holder C, Fresh air blower



- A Battery
- E16 Heater/heat output switch
- J16 Current supply relay
- J255 Climatronic control unit
- J301 Air conditioning system control unit
- J317 Terminal 30 voltage supply relay
- J623 Engine control unit
- SA2 Fuse 2 in fuse holder A
- SC15 Fuse 15 on fuse holder C
- SC36 Fuse 36 on fuse holder C
- SC64 Fuse 64 on fuse holder C
- T2bp 2-pin connector, in front right footwell
- T17a 17-pin connector, behind dash panel, right
- T94a 94-pin connector
- V2 Fresh air blower

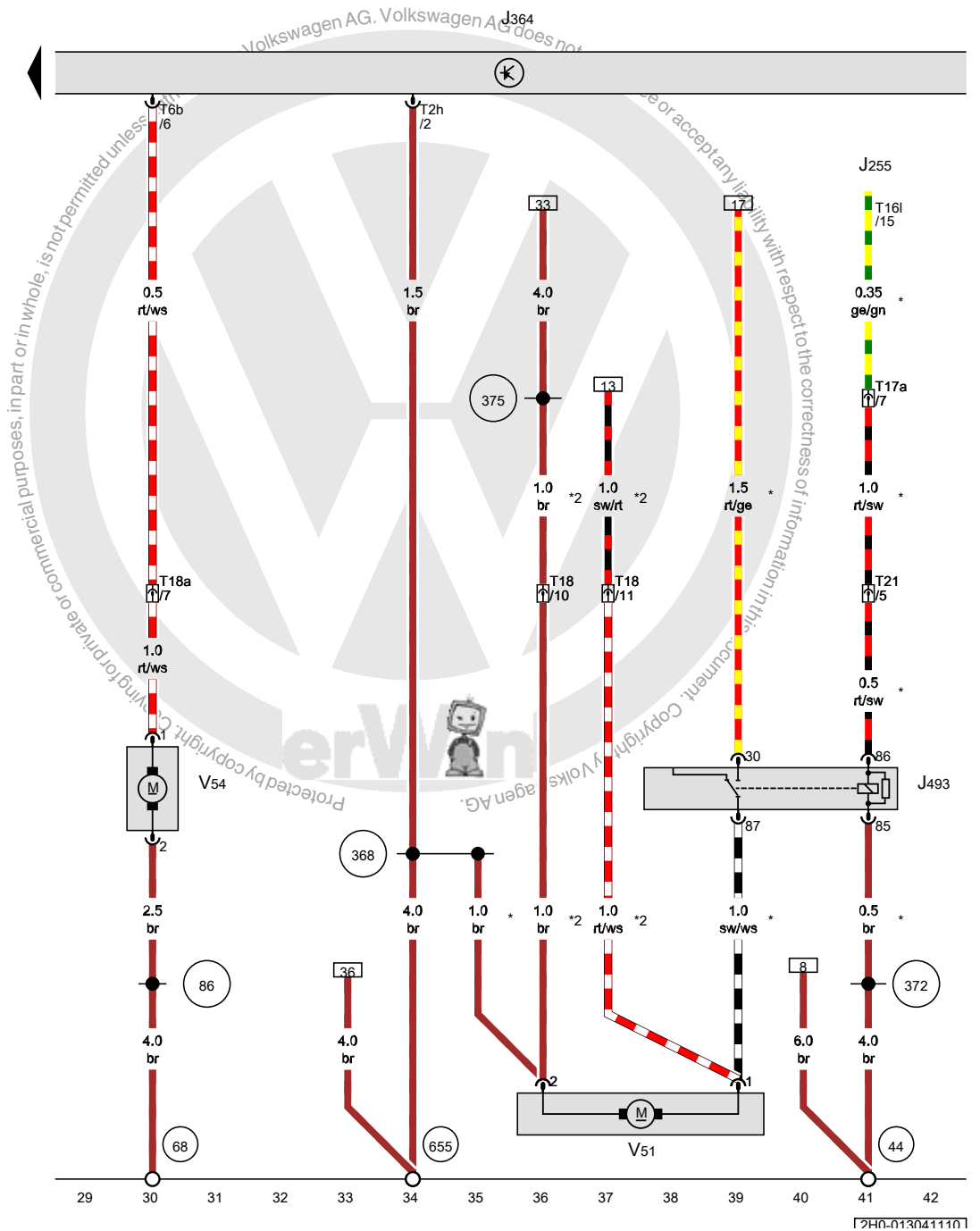
- 1 Earth strap, battery - body
- 80 Earth connection 1, in dash panel wiring harness
- 377 Earth connection 12, in main wiring harness
- B322 Positive connection 8 (30a) in main wiring harness
- B491 Positive connection (75), in interior wiring harness
- B564 Connection 31, in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness
- \* see applicable current flow diagram for air conditioning
- \*2 see applicable current flow diagram for basic equipment
- \*3 Only models with Climatronic
- \*4 Only models with no Climatronic

- ws = white
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- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink



### Auxiliary heater control unit, Onboard supply control unit, Fuse 62 on fuse holder C

- J364 Auxiliary heater control unit
- J519 Onboard supply control unit
- SC62 Fuse 62 on fuse holder C
- T2h 2-pin connector
- T6b 6-pin connector
- T16 16-pin connector
- T73b 73-pin connector
- U31 Diagnostic connection
- A146 Connection (convenience CAN bus, high), in dash panel wiring harness
- A147 Connection (convenience CAN bus, low), in dash panel wiring harness
- B317 Positive connection 3 (30a) in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness
- L62 Positive connection (30a), in auxiliary heater wiring harness
- \* Only models with air conditioning system/ Climatronic
- \*2 Only models with Climatronic



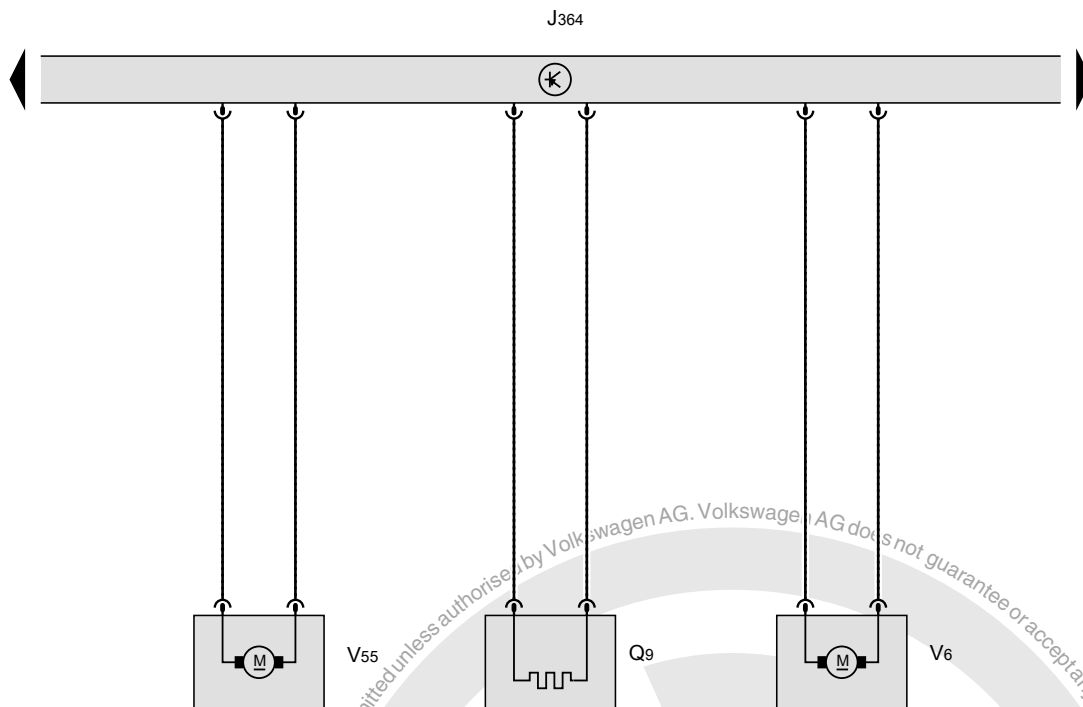
# Auxiliary heater control unit, Continued coolant circulation pump, Metering pump

- J255 Climatronic control unit
- J364 Auxiliary heater control unit
- J493 Auxiliary coolant heater relay
- T2h 2-pin connector
- T6b 6-pin connector
- T16l 16-pin connector
- T17a 17-pin connector, behind glove compartment
- T18 18-pin connector, near engine control unit
- T18a 18-pin connector, near engine control unit
- T21 21-pin connector, on relay carrier
- V51 Continued coolant circulation pump
- V54 Metering pump

- 44 Earth point, lower part of left A-pillar
- 68 Earth point, on left of rear cross member
- 86 Earth connection 1, in rear wiring harness
- 368 Earth connection 3, in main wiring harness
- 372 Earth connection 7, in main wiring harness
- 375 Earth connection 10, in main wiring harness
- 655 Earth point, on left headlight

- \* Only models with Climatronic
- \*2 Only models with no Climatronic

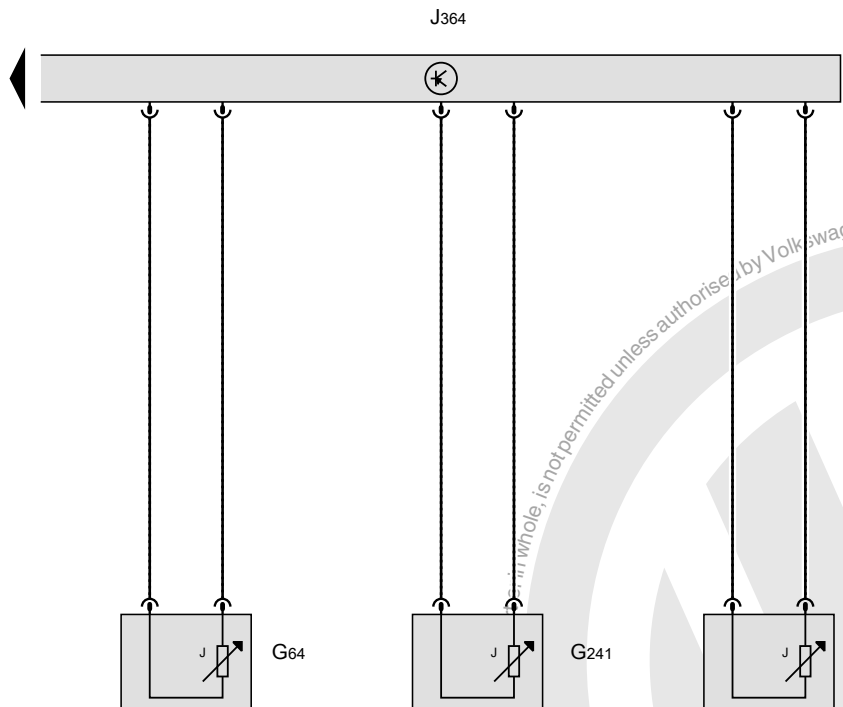
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 ge = yellow  
 or = orange  
 rs = pink



**Auxiliary heater control unit, Glow plug for heater,  
Combustion air blower**

- J364 Auxiliary heater control unit
- Q9 Glow plug for heater
- V6 Combustion air blower
- V55 Circulation pump

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



Flame monitor, Overheating sensor, Coolant temperature sender for heater, Auxiliary heater control unit

- G64 Flame monitor
- G189 Overheating sensor
- G241 Coolant temperature sender for heater
- J364 Auxiliary heater control unit

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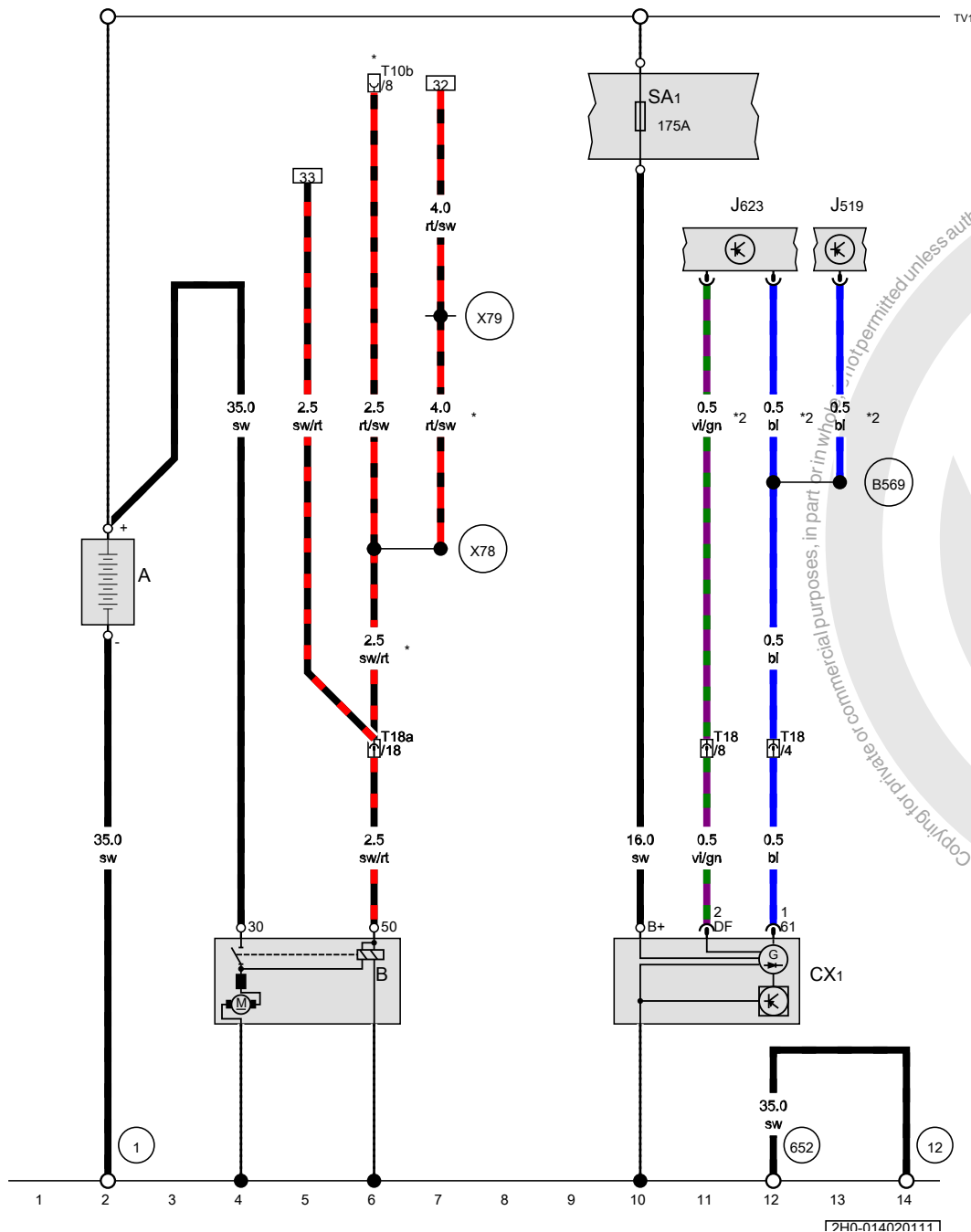
## Fuse assignment

From December 2009





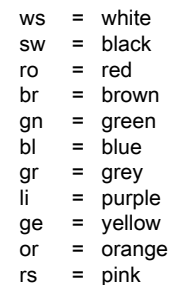
**Battery, Starter, Alternator with voltage regulator, Fuse 1 in fuse holder A**



- A Battery
- B Starter
- CX1 Alternator with voltage regulator
- J519 Onboard supply control unit
- J623 Engine control unit
- SA1 Fuse 1 in fuse holder A
- T10b 10-pin connector, in left footwell, near centre console
- T18 18-pin connector, near engine control unit
- T18a 18-pin connector, near engine control unit

- 1 Earth strap, battery - body
- 12 Earth point, on left in engine compartment
- 652 Earth point, engine and gearbox earth
- B569 Connection 36, in main wiring harness
- X78 Connection 1, in optional equipment wiring harness
- X79 Connection 2, in optional equipment wiring harness
- \* Only models with electric interface for external use
- \*2 see applicable current flow diagram for engine

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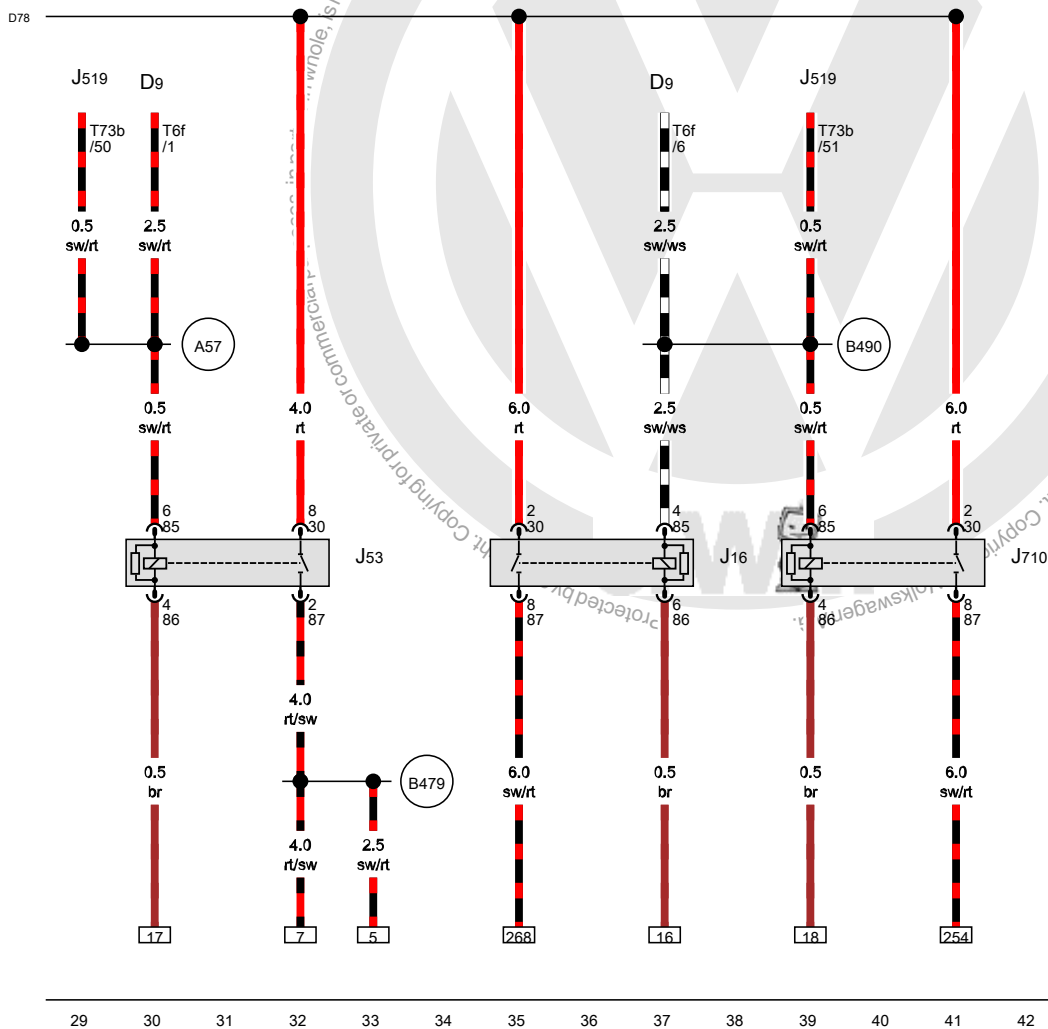


D9	Electronic ignition lock
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J701	Voltage supply relay 1
SA2	Fuse 2 in fuse holder A
T6f	6-pin connector
T73a	73-pin connector

- |      |   |
|------|---|
| 44   | Earth point, lower part of left A-pillar                          |
| 366  | Earth connection 1, in main wiring harness                        |
| A104 | Positive connection 2 (15), in dash panel wiring harness          |
| B315 | Positive connection 1 (30a) in main wiring harness                |
| B489 | Connection 25, in main wiring harness                             |
| D78  | Positive connection 1 (30a), in engine compartment wiring harness |
| *    | Only models with electric interface for external use              |

TV1

TV1



## Current supply relay, Starter motor relay, Voltage supply relay 2

- D9 Electronic ignition lock
- J16 Current supply relay
- J53 Starter motor relay
- J519 Onboard supply control unit
- J710 Voltage supply relay 2
- T6f 6-pin connector
- T73b 73-pin connector

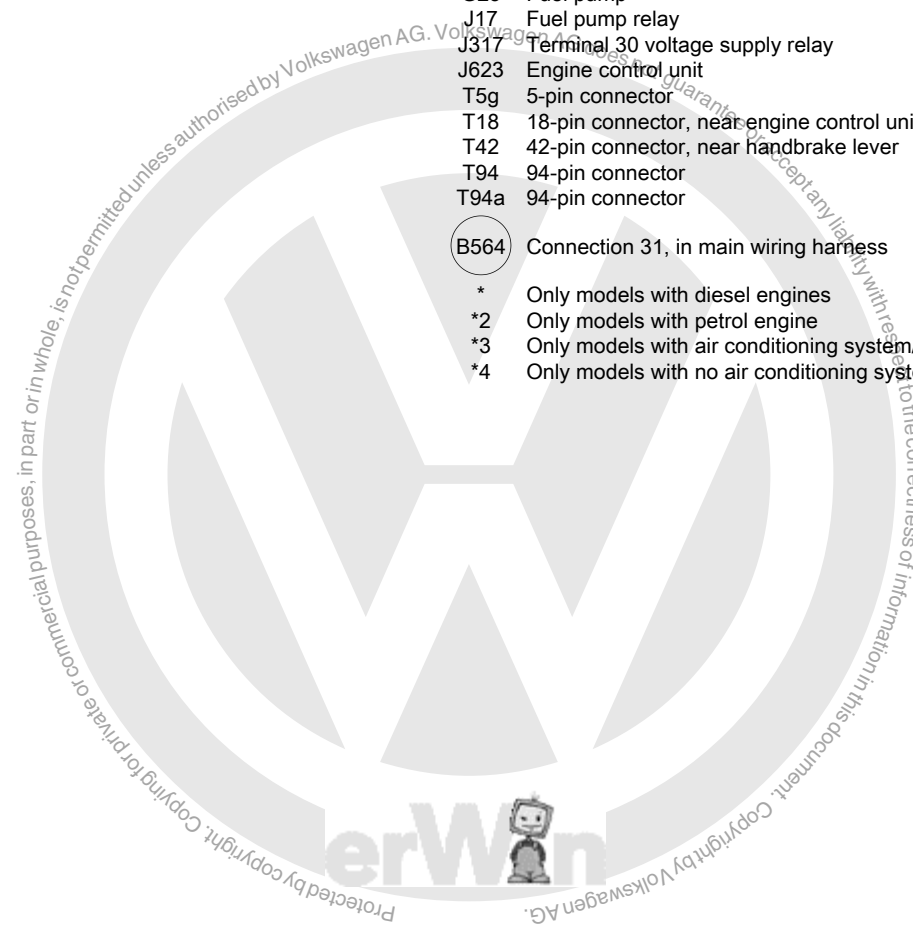
- (A57) Positive connection 3 (30), in dash panel wiring harness
- (B479) Connection 15, in main wiring harness
- (B490) Connection 26, in main wiring harness
- (D78) Positive connection 1 (30a), in engine compartment wiring harness

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

TV

G	Fuel gauge sender
G23	Fuel pump
J17	Fuel pump relay
J317	Terminal 30 voltage supply relay
J623	Engine control unit
T5g	5-pin connector
T18	18-pin connector, near engine control unit
T42	42-pin connector, near handbrake lever
T94	94-pin connector
T94a	94-pin connector

- \* Only models with diesel engines
- \*2 Only models with petrol engine
- \*3 Only models with air conditioning system/ Climatronic
- \*4 Only models with no air conditioning system/Climatronic

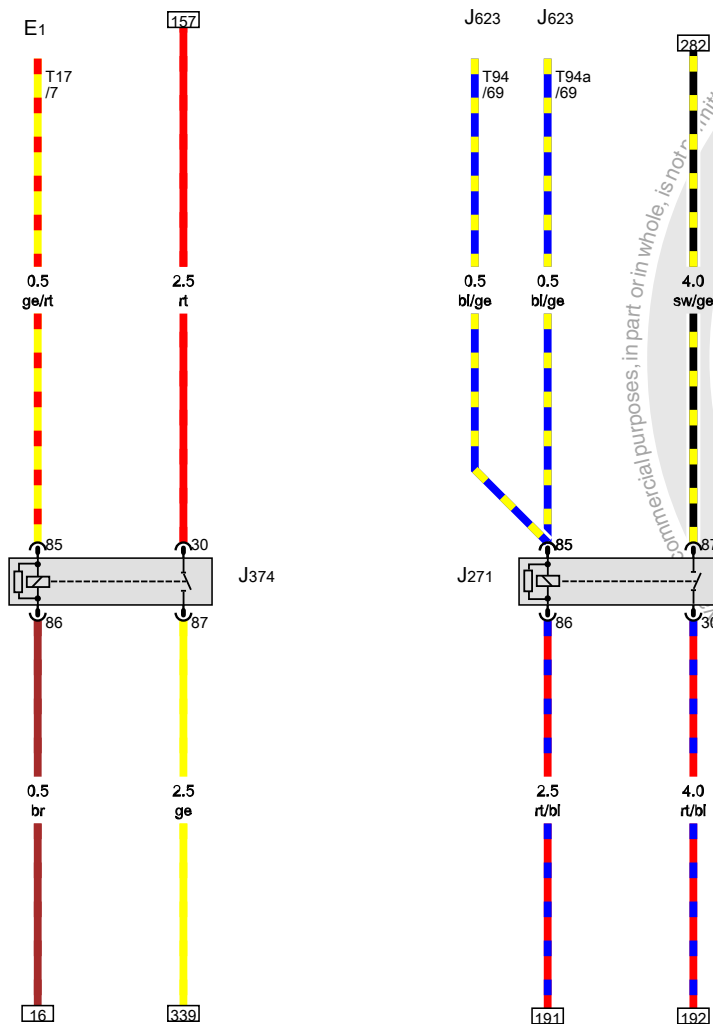


43	44	45	46	47	48	49	50	51	52	53	54	55	56	2H0-014050111	
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TV1 \_\_\_\_\_ TV1

Main relay, Engine control unit

- E1 Light switch
- J271 Main relay
- J374 Terminal 58b relief relay
- J623 Engine control unit
- T17 37-pin connector
- T94 94-pin connector
- T94a 94-pin connector



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- gr = grey
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- ge = yellow
- or = orange
- rs = pink

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

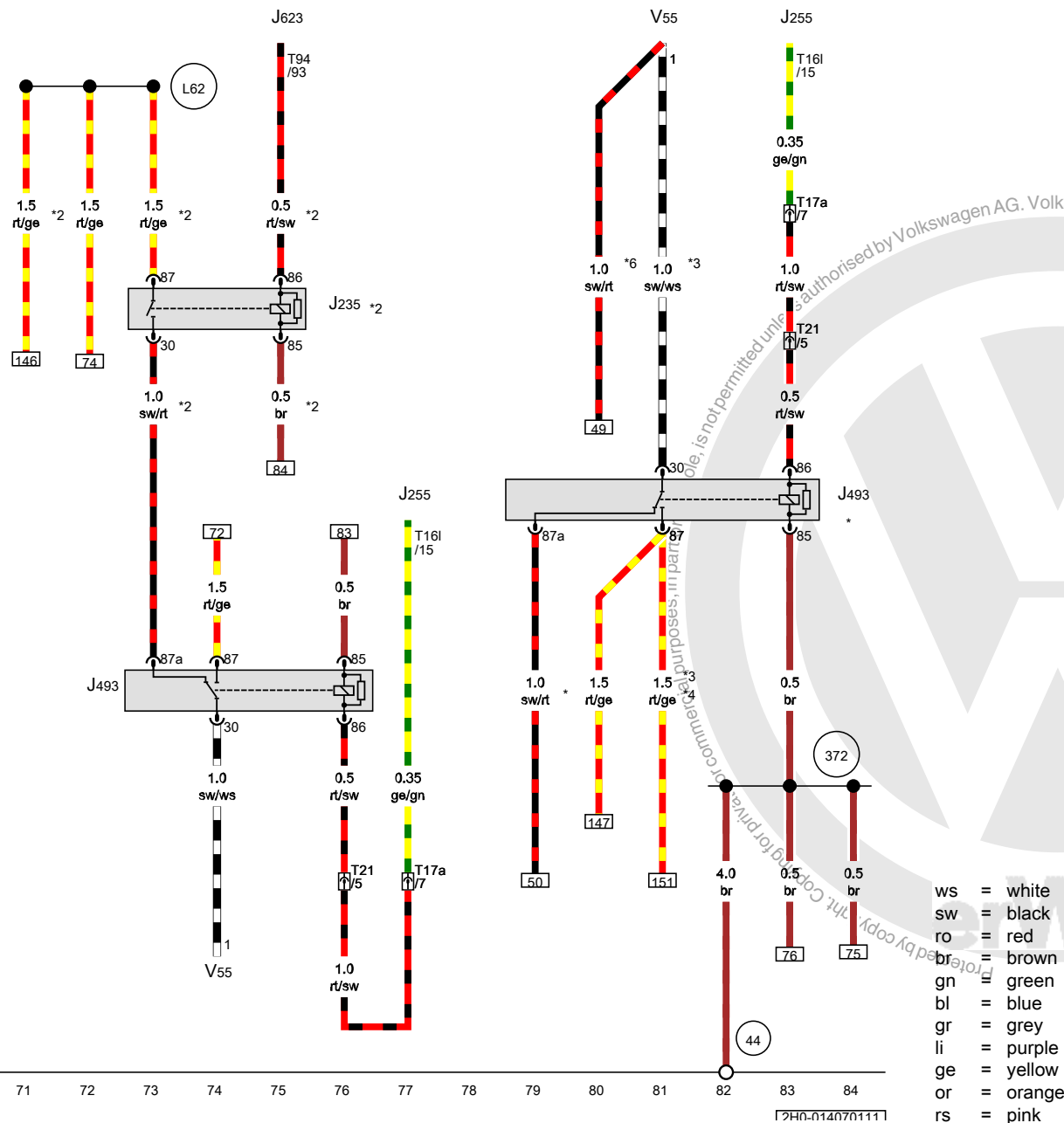
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TV1

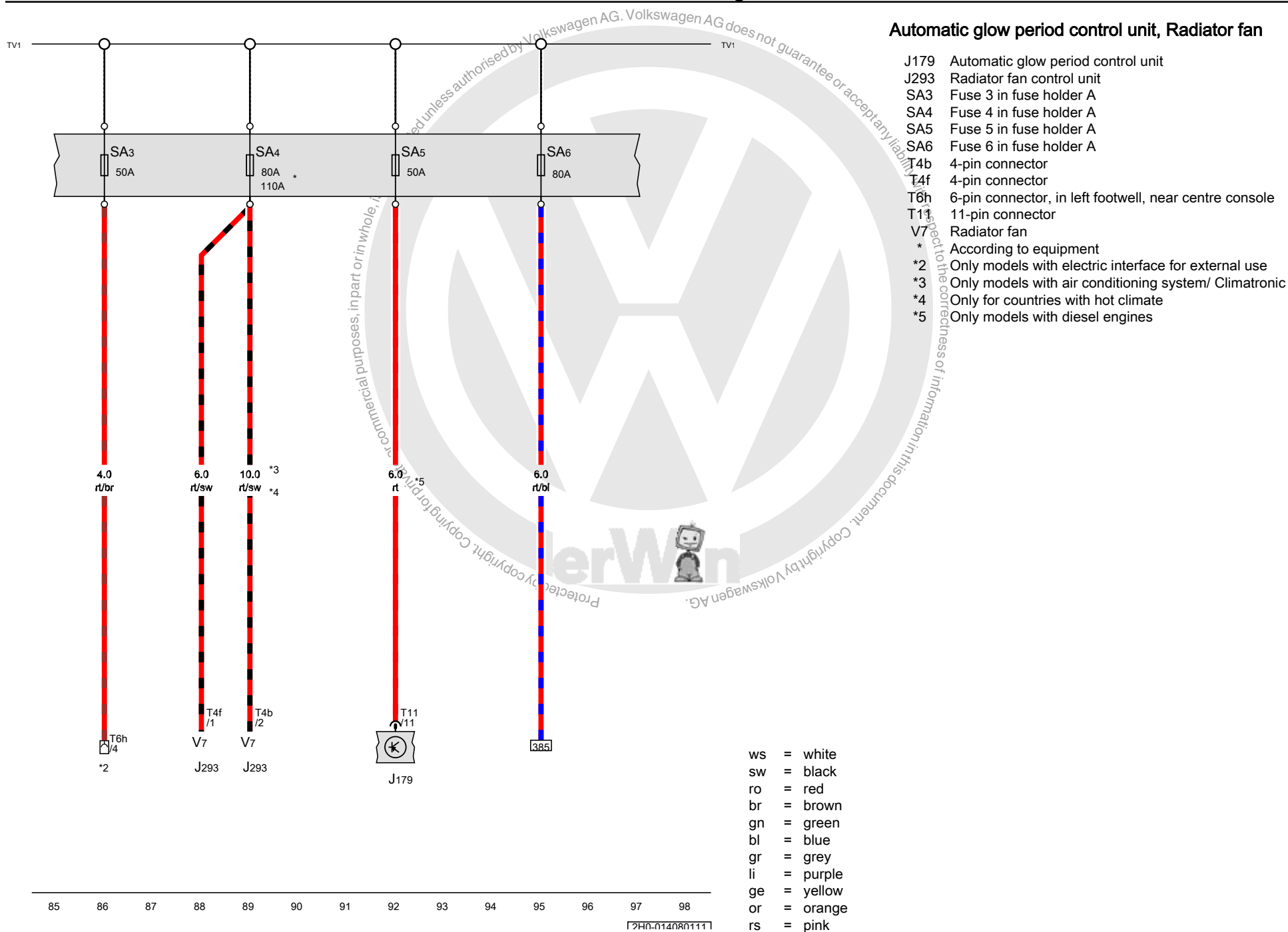
TV1

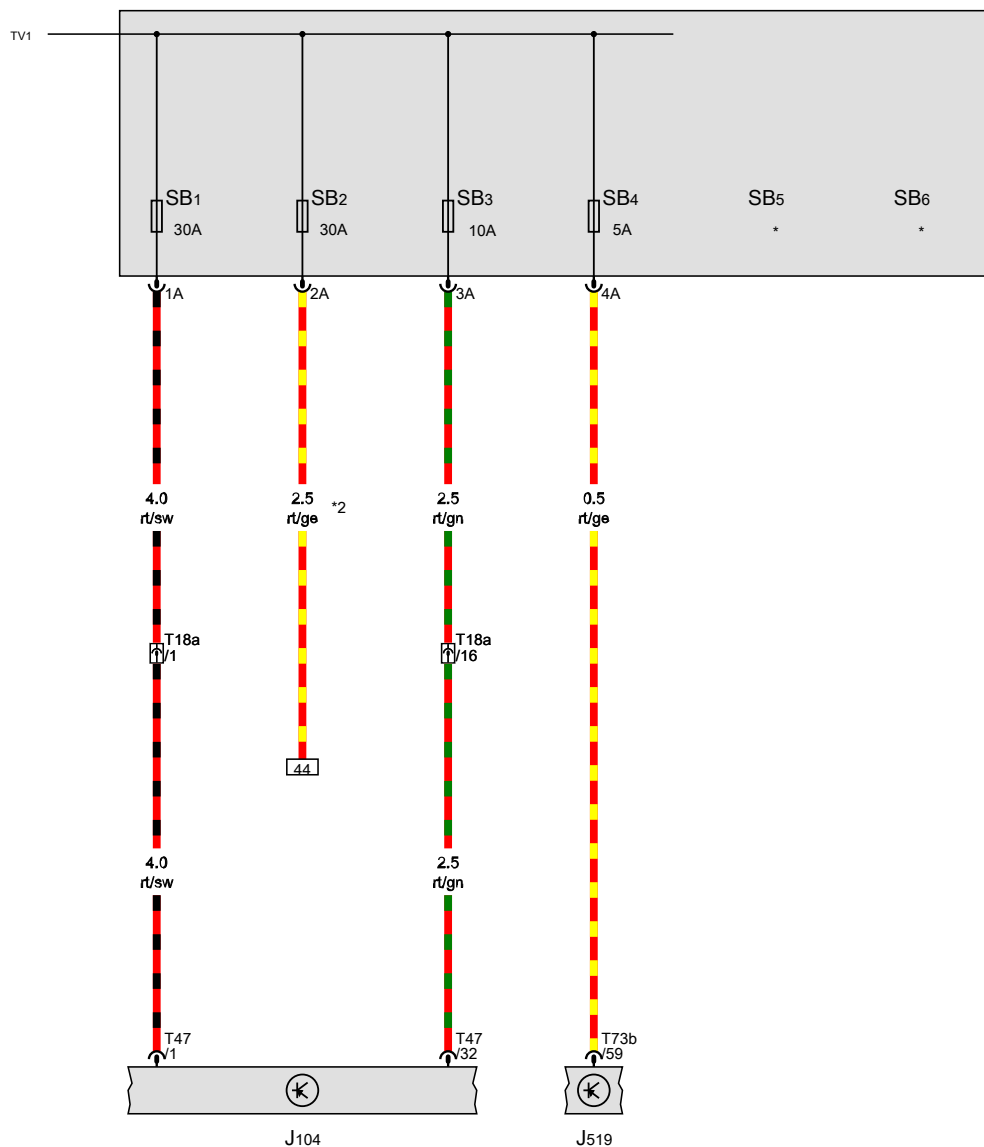
# Auxiliary coolant heater relay, Circulation pump

- J235 Coolant pump relay
- J255 Climatronic control unit
- J493 Auxiliary coolant heater relay
- J623 Engine control unit
- T161 16-pin connector
- T17a 17-pin connector, behind glove compartment
- T21 21-pin connector, on relay carrier
- T94 94-pin connector
- V55 Circulation pump
- 44 Earth point, lower part of left A-pillar
- 372 Earth connection 7, in main wiring harness
- L62 Positive connection (30a), in auxiliary heater wiring harness
- \* Only models with air conditioning system/ Climatronic
- \*2 Only models with petrol engine
- \*3 Only models with Climatronic
- \*4 Only models with auxiliary coolant heater (supplementary heater)
- \*5 Only models with diesel engines
- \*6 Only models with no air conditioning system/Climatronic



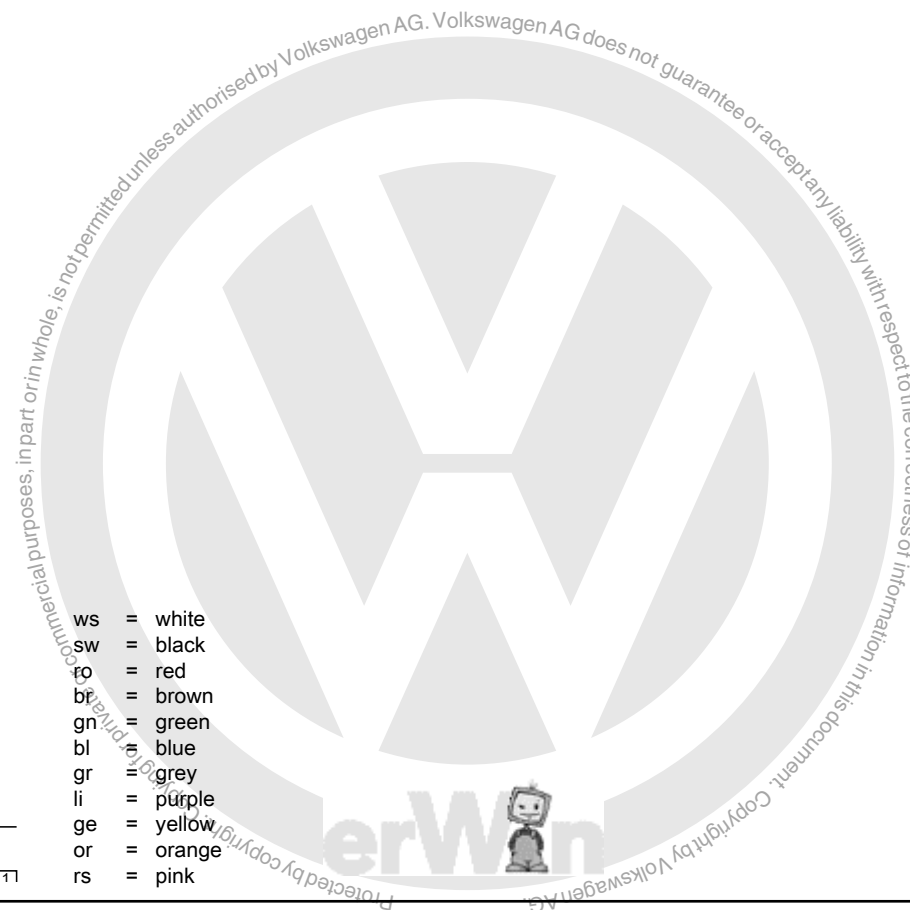
ws = white  
 sw = black  
 ro = red  
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 bl = blue  
 gr = grey  
 li = purple  
 ge = yellow  
 or = orange  
 rs = pink





# ABS control unit, Onboard supply control unit

- J104 ABS control unit
- J519 Onboard supply control unit
- SB1 Fuse 1 on fuse holder B
- SB2 Fuse 2 on fuse holder B
- SB3 Fuse 3 on fuse holder B
- SB4 Fuse 4 on fuse holder B
- SB5 Fuse 5 on fuse holder B
- SB6 Fuse 6 on fuse holder B
- T18a 18-pin connector, near engine control unit
- T47 47-pin connector
- T73b 73-pin connector
- \* Vacant
- \*2 Only models with diesel engines

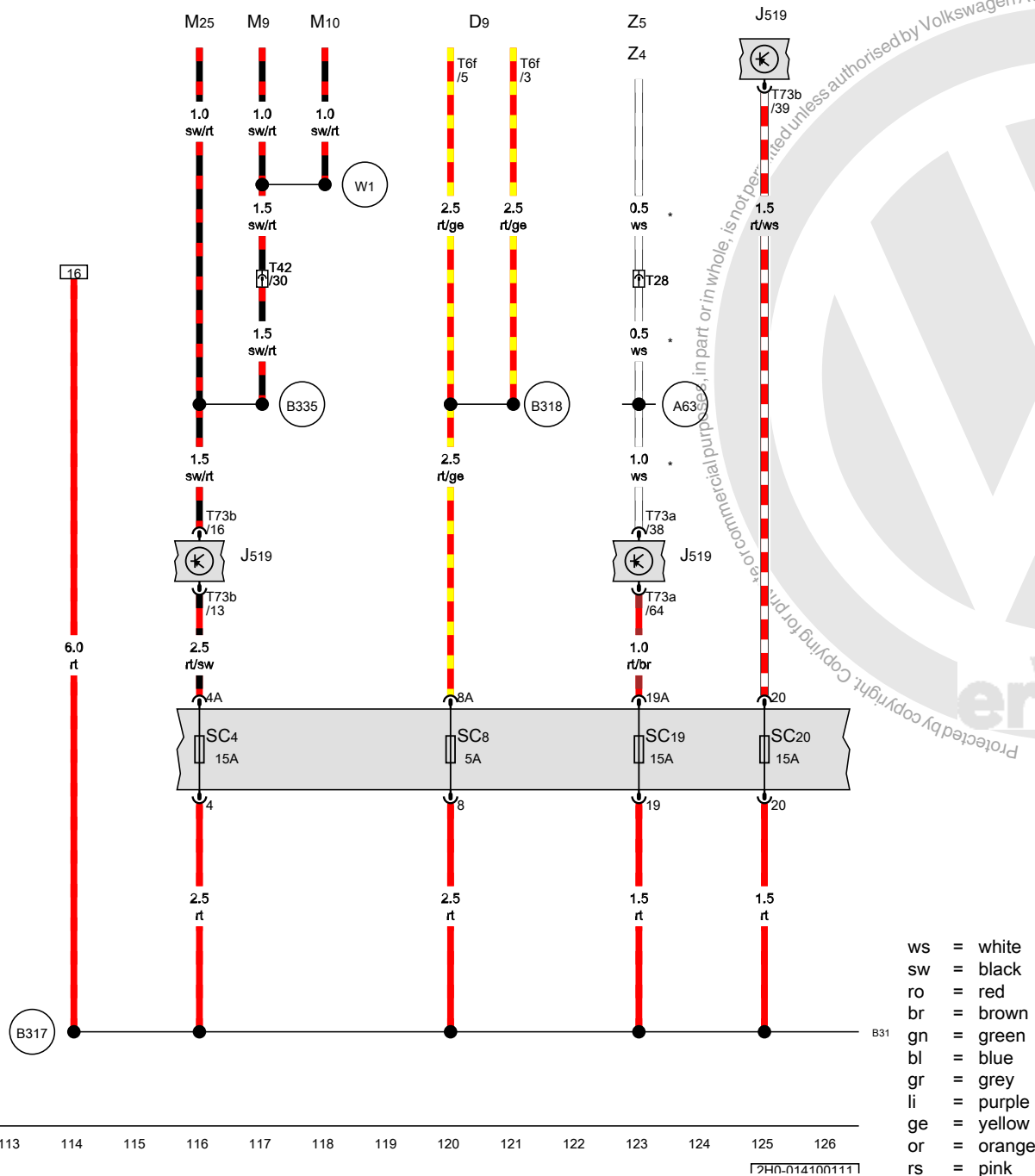


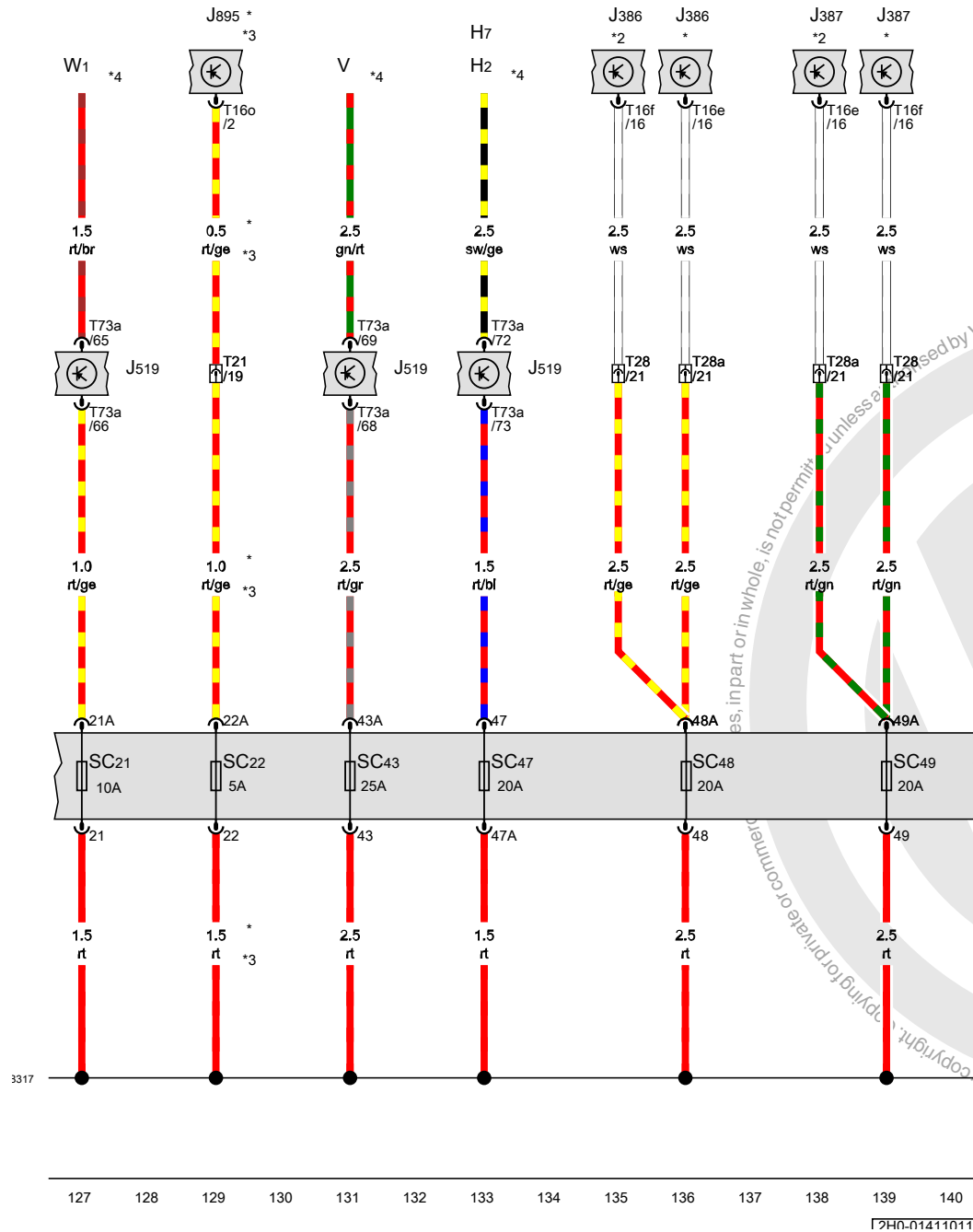


Electronic ignition lock, Left brake light bulb, Right brake light bulb, Additional brake light bulb, Heated exterior mirror on driver side, Heated exterior mirror on front passenger side

- D9 Electronic ignition lock
- J519 Onboard supply control unit
- M9 Left brake light bulb
- M10 Right brake light bulb
- M25 Additional brake light bulb
- SC4 Fuse 4 on fuse holder C
- SC8 Fuse 8 on fuse holder C
- SC19 Fuse 19 on fuse holder C
- SC20 Fuse 20 on fuse holder C
- T6f 6-pin connector
- T28 28-pin connector, near A-pillar
- T42 42-pin connector
- T73a 73-pin connector
- T73b 73-pin connector
- Z4 Heated exterior mirror on driver side
- Z5 Heated exterior mirror on front passenger side
- A63 Connection (mirror adjustment/heating), in dash panel wiring harness
- B317 Positive connection 3 (30a) in main wiring harness
- B318 Positive connection 4 (30a) in main wiring harness
- B335 Connection 1 (54), in main wiring harness
- W1 Positive connection 1 (54), in rear wiring harness

\* see applicable current flow diagram for window regulators/ basic equipment/ convenience system





Treble horn, Driver door control unit, Front passenger door control unit, Control unit for vehicle location system, Windscreen wiper motor, Front interior light

- H2 Treble horn
- H7 Bass horn
- J386 Driver door control unit
- J387 Front passenger door control unit
- J519 Onboard supply control unit
- J895 Control unit for vehicle location system
- SC21 Fuse 21 on fuse holder C
- SC22 Fuse 22 on fuse holder C
- SC43 Fuse 43 on fuse holder C
- SC47 Fuse 47 on fuse holder C
- SC48 Fuse 48 on fuse holder C
- SC49 Fuse 49 on fuse holder C
- T16e 16-pin connector
- T16f 16-pin connector
- T16o 16-pin connector
- T21 21-pin connector, on relay carrier
- T28 28-pin connector, on right A-pillar
- T28a 28-pin connector, in left A-pillar
- T73a 73-pin connector
- V Windscreen wiper motor
- W1 Front interior light

B317 Positive connection 3 (30a) in main wiring harness

- \* Only left-hand drive models
- \*2 Only right-hand drive models
- \*3 Country specific
- \*4 see applicable current flow diagram for basic equipment

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

Heater control unit, Rear left door control unit, Rear right door control unit, Load area illumination bulb

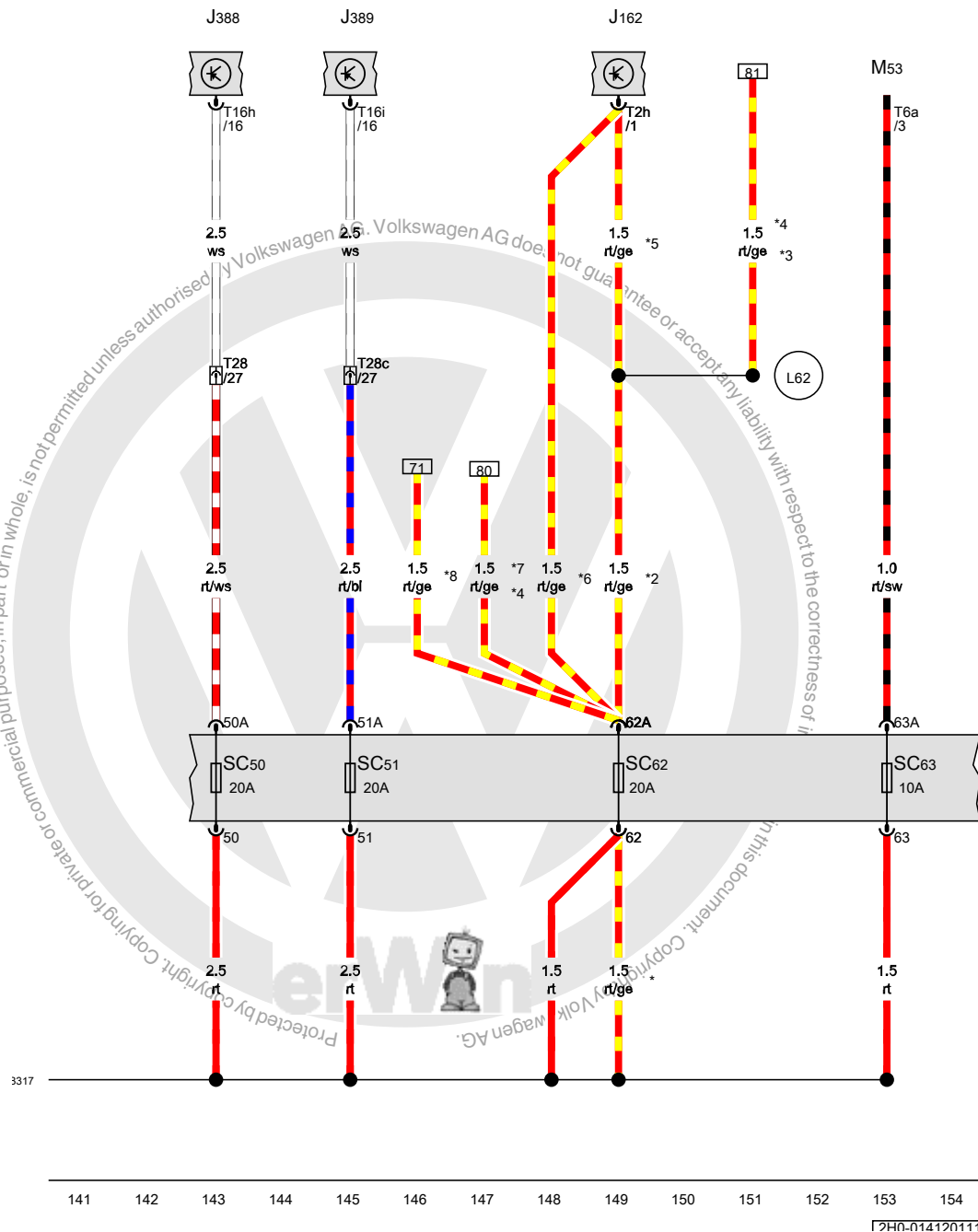
- J162 Heater control unit
- J388 Rear left door control unit
- J389 Rear right door control unit
- M53 Load area illumination bulb
- SC50 Fuse 50 on fuse holder C
- SC51 Fuse 51 on fuse holder C
- SC62 Fuse 62 on fuse holder C
- SC63 Fuse 63 on fuse holder C
- T2h 2-pin connector
- T6a 6-pin connector
- T16h 16-pin connector
- T16i 16-pin connector
- T28 28-pin connector
- T28c 28-pin connector

B317 Positive connection 3 (30a) in main wiring harness

L62 Positive connection (30a), in auxiliary heater wiring harness

- \* Only right-hand drive models
- \*2 Only models with air conditioning system/ Climatronic
- \*3 Only models with auxiliary coolant heater (supplementary heater)
- \*4 Only models with Climatronic
- \*5 Only models with air conditioning system
- \*6 Only models with no air conditioning system/Climatronic
- \*7 Only models with no auxiliary coolant heater
- \*8 Only models with petrol engine

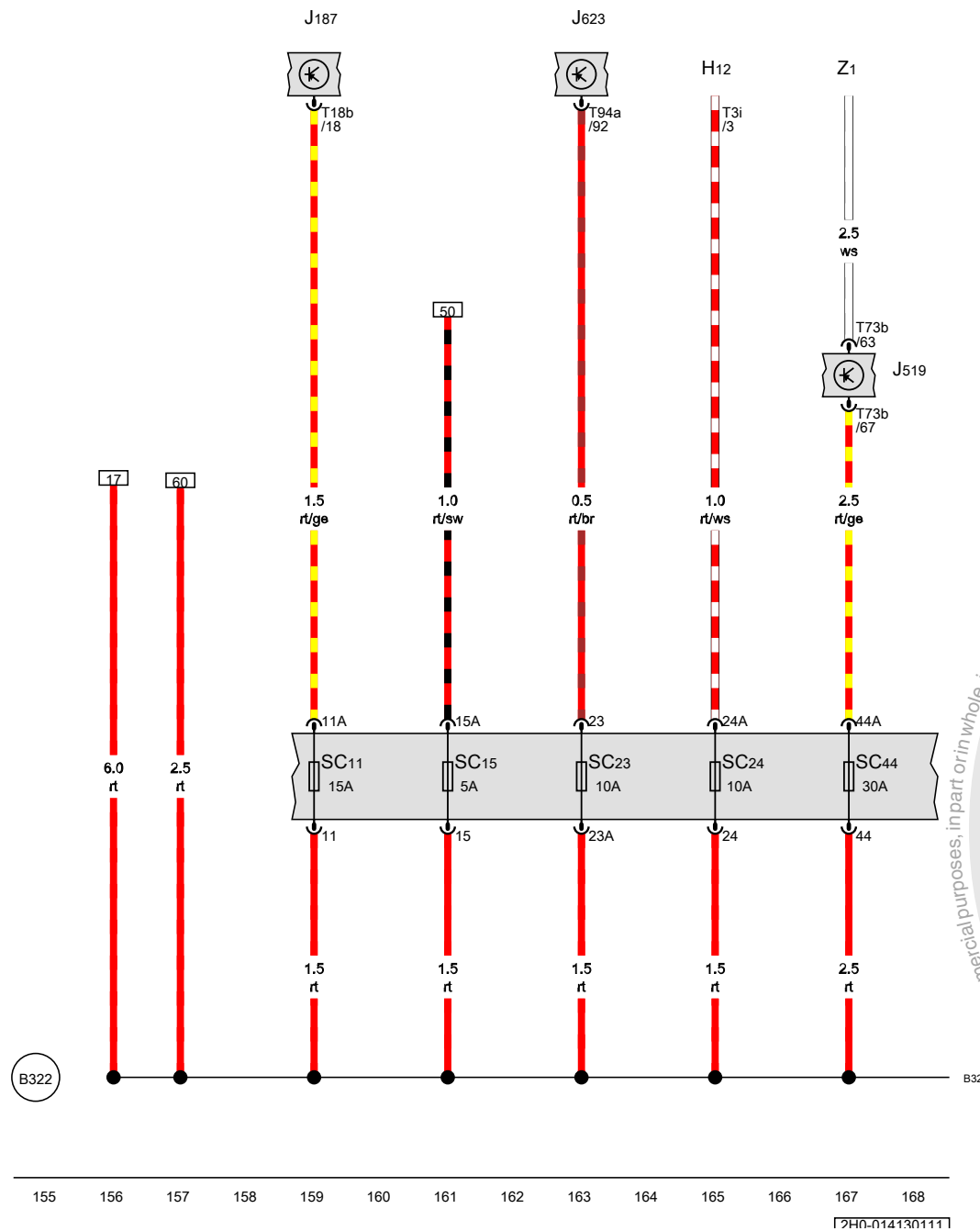
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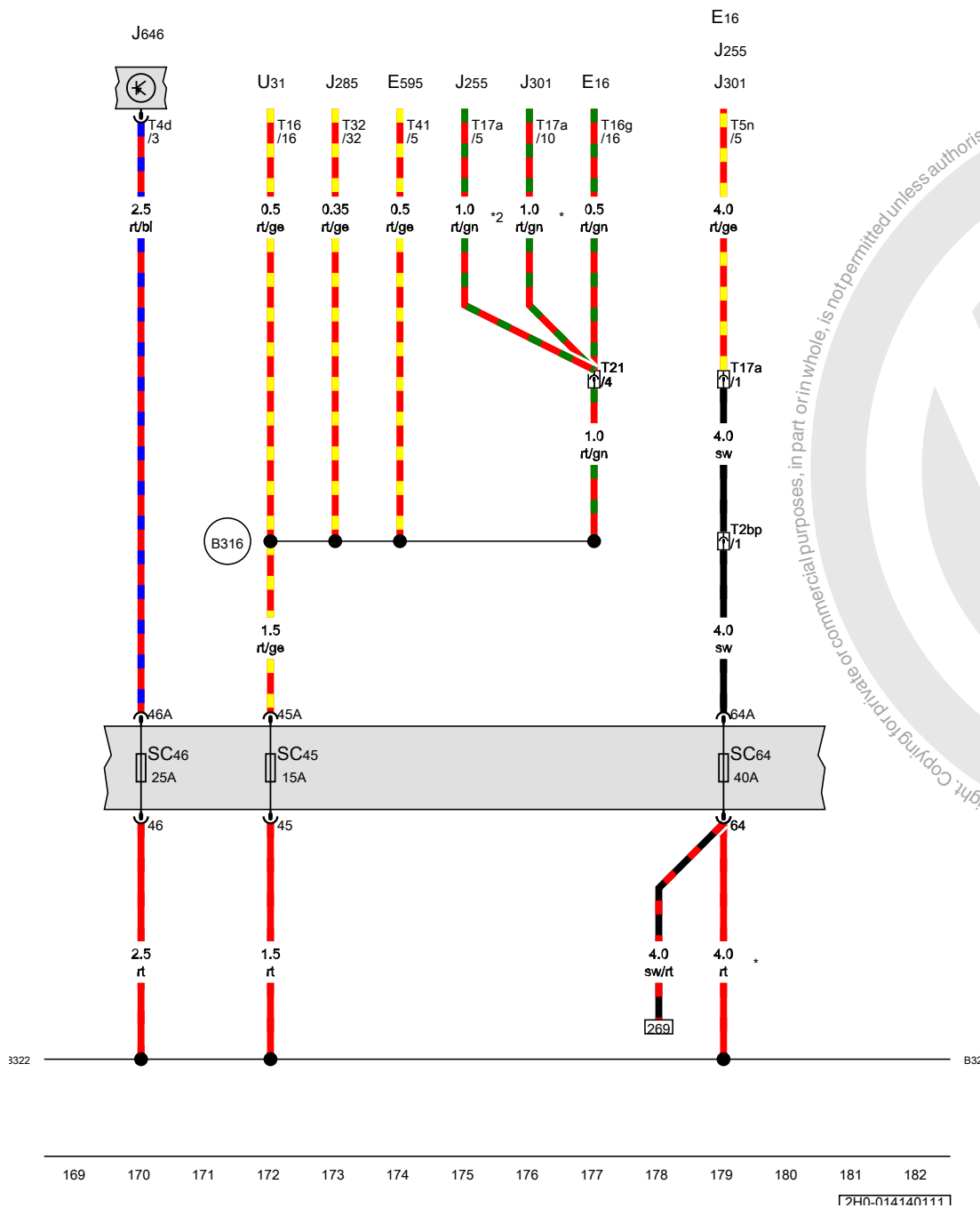
Alarm horn, Differential lock control unit, Engine control unit,  
Heated rear window

- H12 Alarm horn
- J187 Differential lock control unit
- J519 Onboard supply control unit
- J623 Engine control unit
- SC11 Fuse 11 on fuse holder C
- SC15 Fuse 15 on fuse holder C
- SC23 Fuse 23 on fuse holder C
- SC24 Fuse 24 on fuse holder C
- SC44 Fuse 44 on fuse holder C
- T3i 3-pin connector
- T18b 18-pin connector
- T73b 73-pin connector
- T94a 94-pin connector
- Z1 Heated rear window

- B322 Positive connection 8 (30a) in main wiring harness
- \* Only models with petrol engine

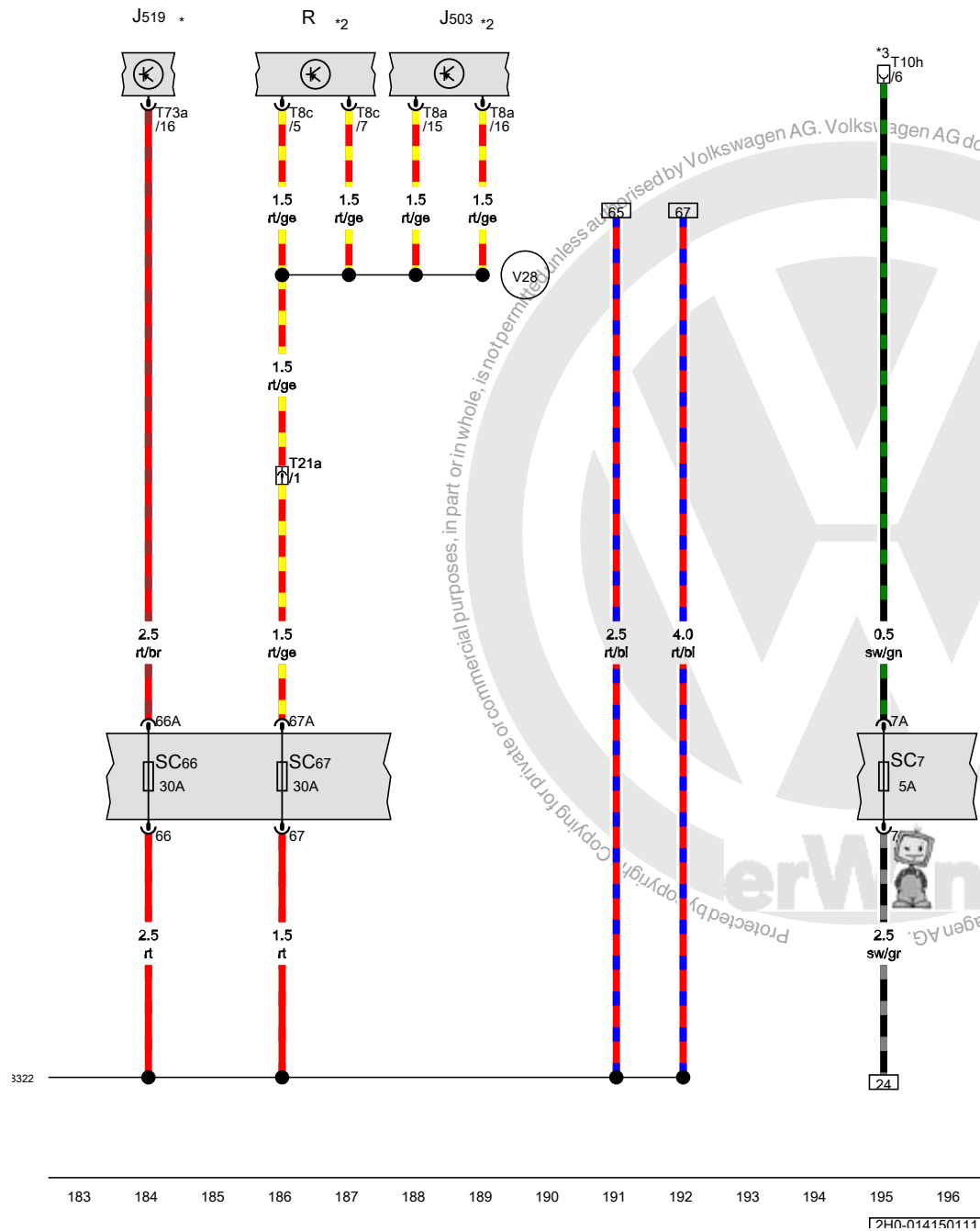


- ws = white
- sw = black
- rg = red
- br = brown
- gn = green
- bl = blue
- gr = grey
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- ge = yellow
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Steering column combination switch, Control unit in dash panel insert, Transfer box control unit

- E16 Heater/heat output switch
- E595 Steering column combination switch
- J255 Climatronic control unit
- J285 Control unit in dash panel insert
- J301 Air conditioning system control unit
- J646 Transfer box control unit
- SC45 Fuse 45 on fuse holder C
- SC46 Fuse 46 on fuse holder C
- SC64 Fuse 64 on fuse holder C
- T2bp 2-pin connector
- T4d 4-pin connector
- T5n 5-pin connector
- T16 16-pin connector
- T16g 16-pin connector
- T17a 17-pin connector, behind glove compartment
- T21 21-pin connector, on relay carrier
- T32 32-pin connector
- T41 41-pin connector
- U31 Diagnostic connection
- B316 Positive connection 2 (30a) in main wiring harness
- B322 Positive connection 8 (30a) in main wiring harness
- \* Only models with Climatic
- \*2 Only models with Climatronic



# Control unit with display for radio and navigation, Onboard supply control unit, Radio

- J503 Control unit with display for radio and navigation
- J519 Onboard supply control unit
- R Radio
- SC7 Fuse 7 on fuse holder C
- SC66 Fuse 66 on fuse holder C
- SC67 Fuse 67 on fuse holder C
- T8a 8-pin connector
- T8c 8-pin connector
- T10h 10-pin connector, in left footwell, near centre console
- T21a 21-pin connector, on relay carrier
- T73a 73-pin connector
- B322 Positive connection 8 (30a) in main wiring harness
- V28 Connection 1, in radio wiring harness
- \* see applicable current flow diagram for basic equipment/ central locking
- 2 According to equipment
- 3 Only models with electric interface for external use

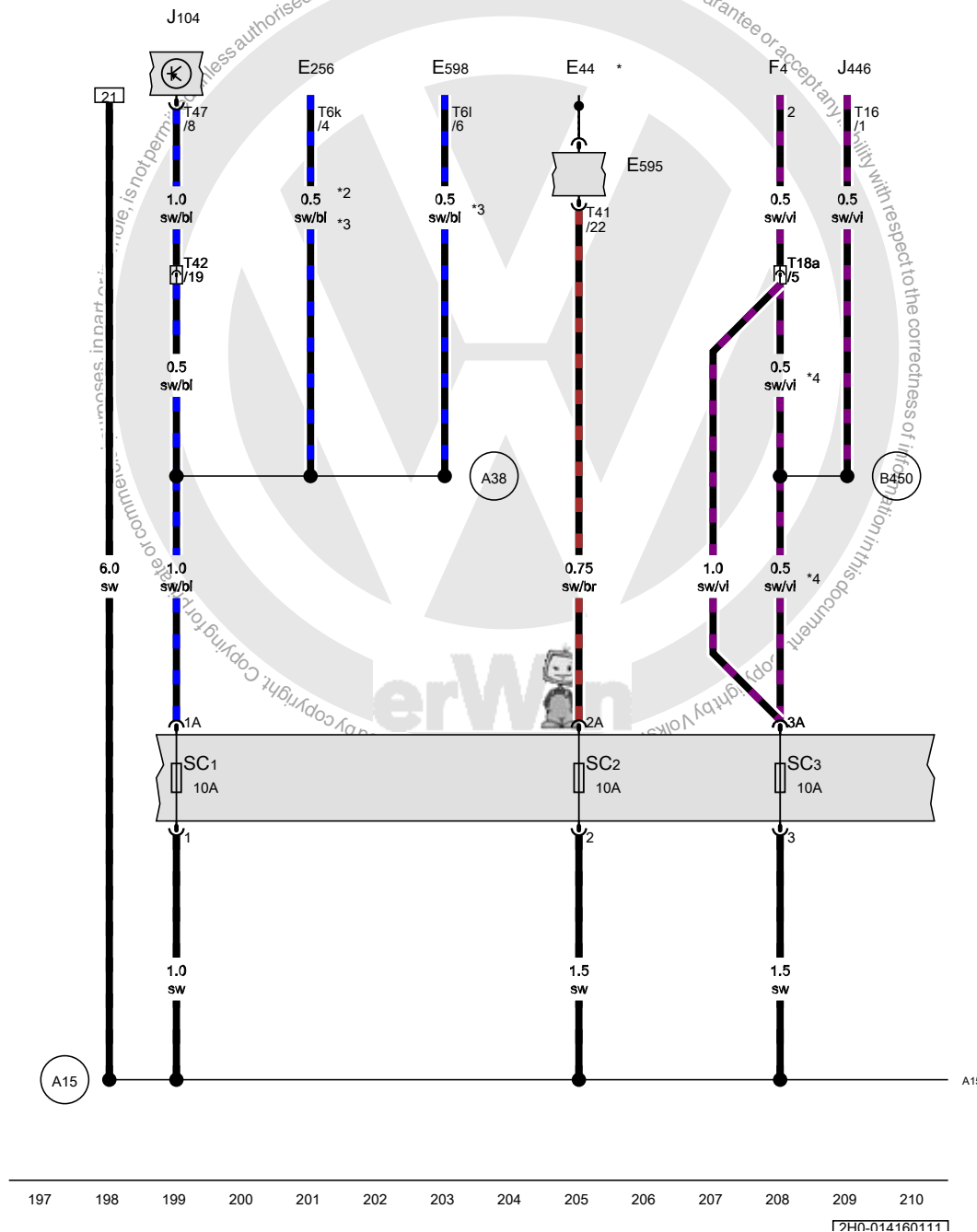
Washer pump switch (automatic wash/wipe and headlight washer system), TCS and ESP button, Steering column combination switch, Driving program button, Reversing light switch, ABS control unit, Parking aid control unit

- E44 Washer pump switch (automatic wash/wipe and headlight washer system)
- E256 TCS and ESP button
- E595 Steering column combination switch
- E598 Driving program button
- F4 Reversing light switch
- J104 ABS control unit
- J446 Parking aid control unit
- SC1 Fuse 1 on fuse holder C
- SC2 Fuse 2 on fuse holder C
- SC3 Fuse 3 on fuse holder C
- T6k 6-pin connector
- T6l 6-pin connector
- T16 16-pin connector
- T18a 18-pin connector, near engine control unit
- T41 41-pin connector
- T42 42-pin connector, near handbrake lever
- T47 47-pin connector

- A15 Positive connection (15), in instrument wiring harness
- A38 Positive connection 2 (15a) in dash panel wiring harness
- B450 Connection 1 (PDC), in main wiring harness

- \* see applicable current flow diagram for basic equipment
- \*2 Only models with anti-lock brake system (ABS), traction control system (TCS) and electronic differential lock (EDL)
- \*3 with auxiliary drive (part time)
- \*4 Only models with parking aid (PDC)

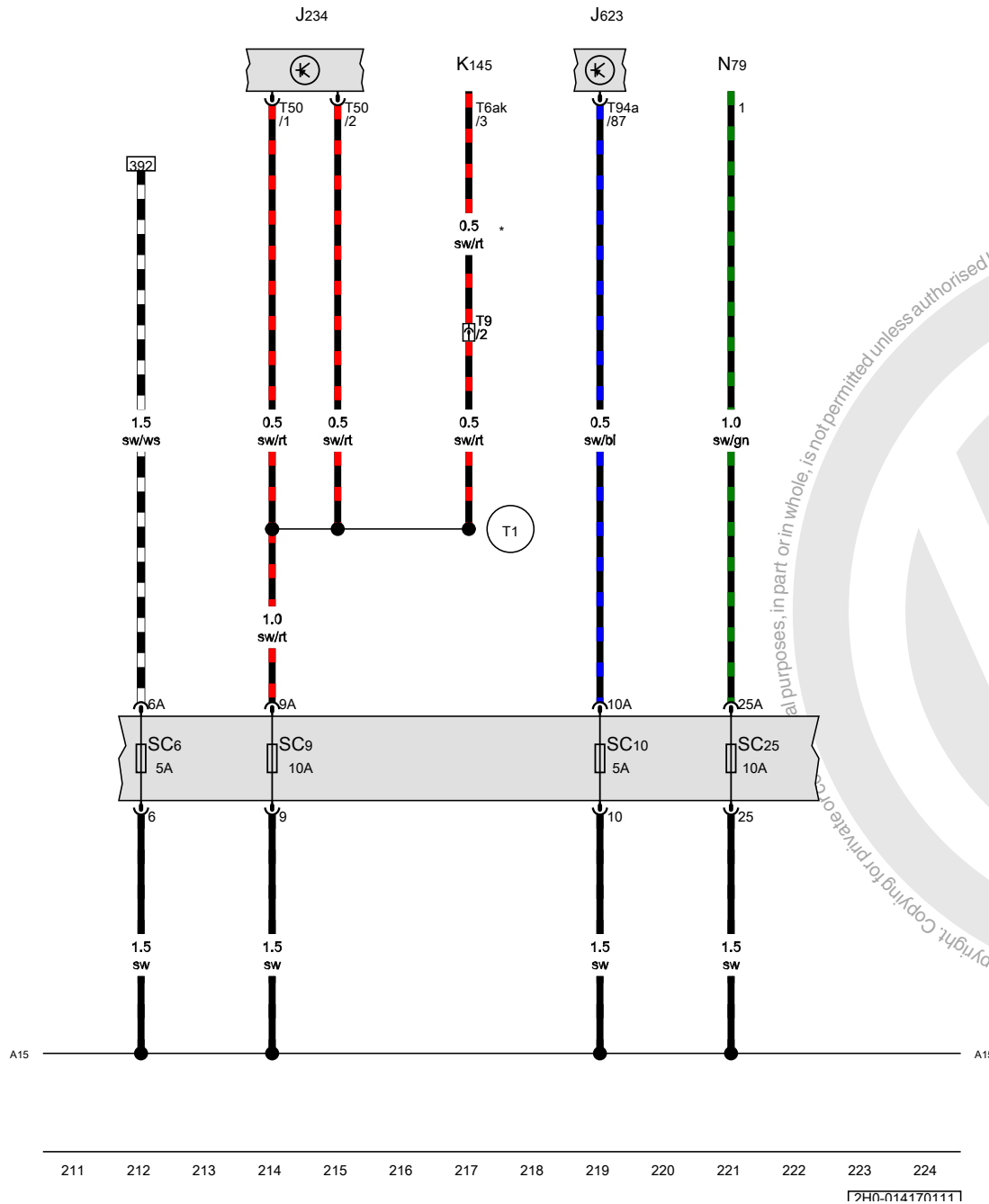
ws = white  
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ge = yellow  
or = orange  
rs = pink



197 198 199 200 201 202 203 204 205 206 207 208 209 210

17H0-0141601111

Airbag control unit, Engine control unit, Front passenger side airbag deactivated warning lamp, Heater element for crankcase breather



- J234 Airbag control unit
- J623 Engine control unit
- K145 Front passenger side airbag deactivated warning lamp
- N79 Heater element for crankcase breather
- SC6 Fuse 6 on fuse holder C
- SC9 Fuse 9 on fuse holder C
- SC10 Fuse 10 on fuse holder C
- SC25 Fuse 25 on fuse holder C
- T6ak 6-pin connector
- T9 9-pin connector, on relay carrier
- T50 50-pin connector
- T94a 94-pin connector

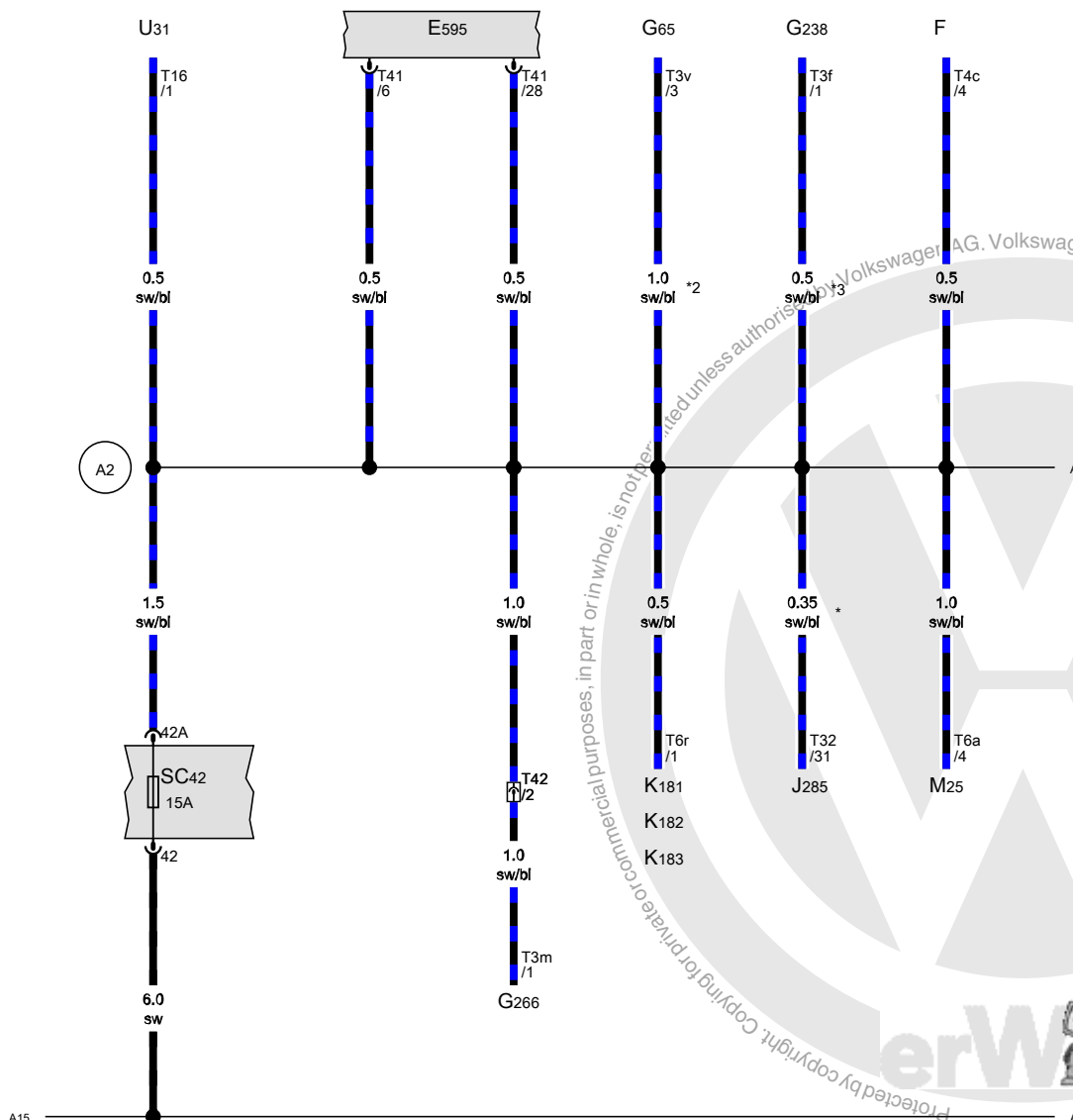
A15 Positive connection (15), in instrument wiring harness

T1 Positive connection 1, in airbag wiring harness

\* Only models with key operated switch to deactivate front passenger airbag



Fuse 42 on fuse holder C



- E595 Steering column combination switch
- F Brake light switch
- G65 High-pressure sender
- G238 Air quality sensor
- G266 Oil level and oil temperature sender
- J285 Control unit in dash panel insert
- K181 Normal operation warning lamp in transfer box operating unit
- K182 Reduction gearing warning lamp in transfer box operating unit
- K183 Inter-axe lock-up warning lamp in transfer box operating unit
- M25 Additional brake light bulb
- SC42 Fuse 42 on fuse holder C
- T3f 3-pin connector
- T3m 3-pin connector
- T3v 3-pin connector
- T4c 4-pin connector
- T6a 6-pin connector
- T6r 6-pin connector
- T16 16-pin connector
- T32 32-pin connector
- T41 41-pin connector
- T42 42-pin connector, near handbrake lever
- U31 Diagnostic connection

A2 Positive connection (15), in dash panel wiring harness

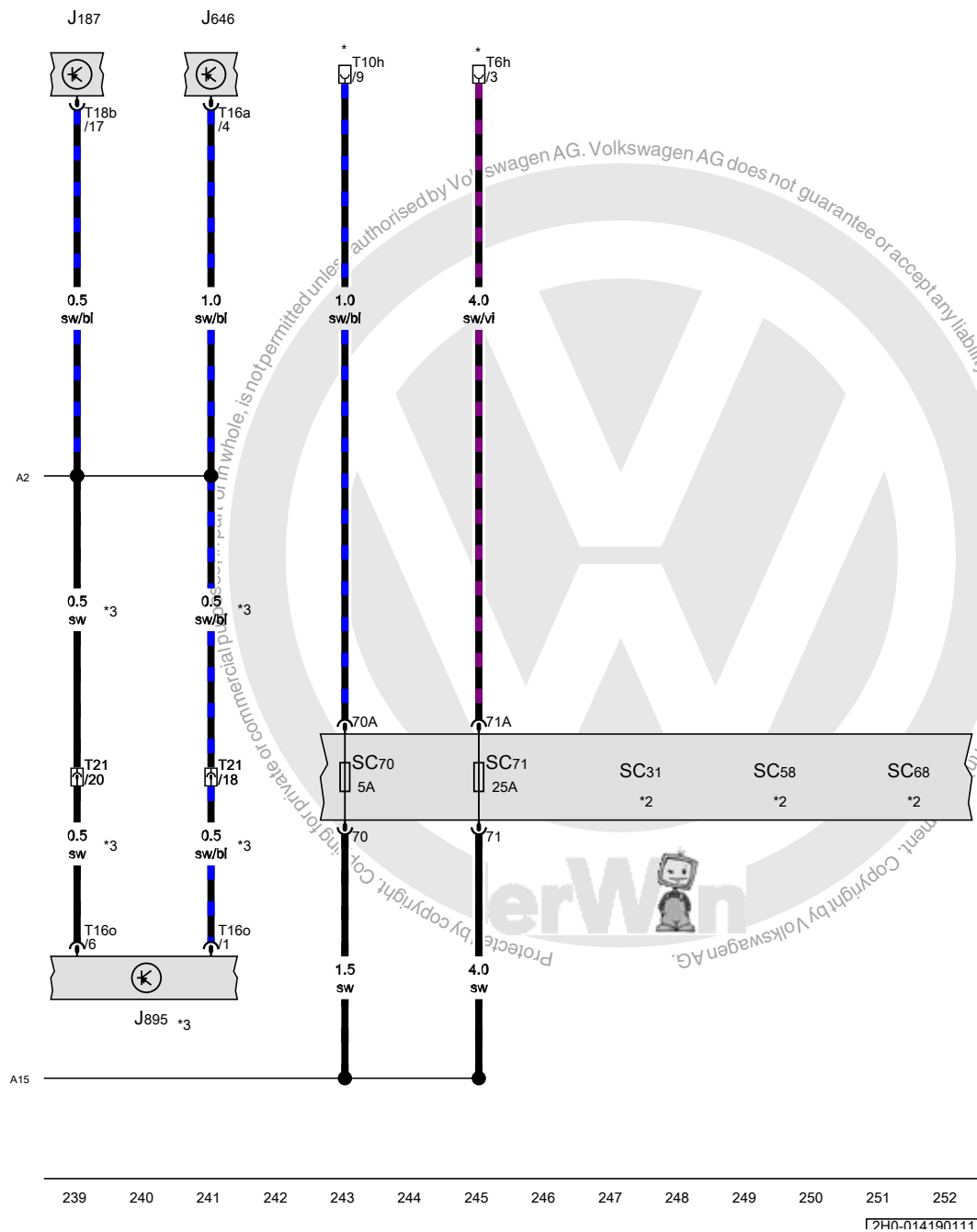
A15 Positive connection (15), in instrument wiring harness

- \* According to equipment
- \*2 Only models with air conditioning system/ Climatronic
- \*3 Only models with Climatronic

- ws = white
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- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

225 226 227 228 229 230 231 232 233 234 235 236 237 238

[740-014180111]



### Fuse 70 on fuse holder C, Fuse 71 on fuse holder C

- J187 Differential lock control unit
- J646 Transfer box control unit
- J895 Control unit for vehicle location system
- SC31 Fuse 31 on fuse holder C
- SC58 Fuse 58 on fuse holder C
- SC68 Fuse 68 on fuse holder C
- SC70 Fuse 70 on fuse holder C
- SC71 Fuse 71 on fuse holder C
- T6h 6-pin connector, in left footwell, near centre console
- T10h 10-pin connector, in left footwell, near centre console
- T16a 16-pin connector
- T16o 16-pin connector
- T18b 18-pin connector
- T21 21-pin connector, on relay carrier

A2 Positive connection (15), in dash panel wiring harness

A15 Positive connection (15), in instrument wiring harness

\* Only models with electric interface for external use

\*2 Vacant

\*3 Only left-hand drive models

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- bl = blue
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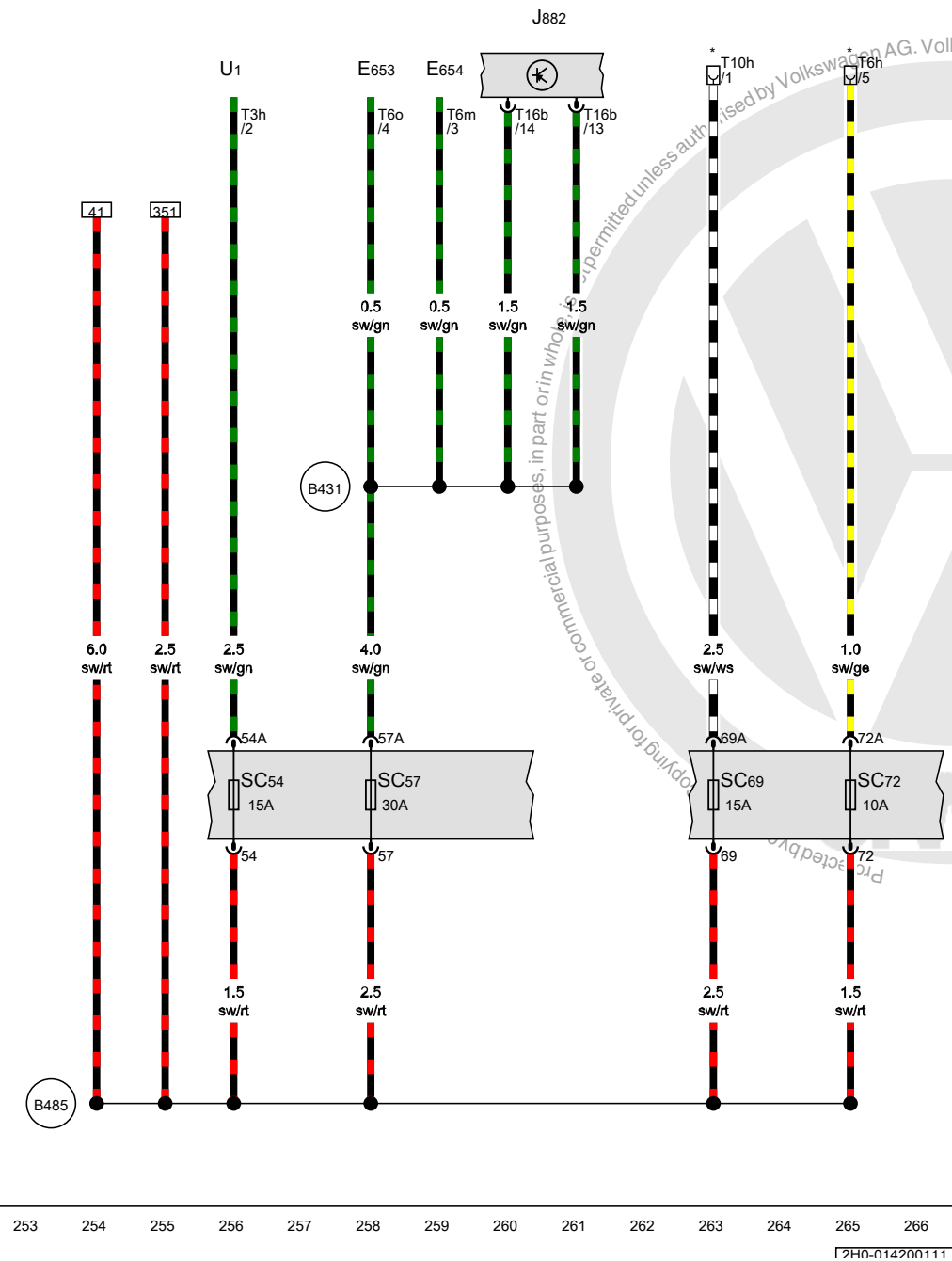
Button for left seat heating, Button for right seat heating,  
Seat heating control unit, Cigarette lighter

- E653 Button for left seat heating
- E654 Button for right seat heating
- J882 Seat heating control unit
- SC54 Fuse 54 on fuse holder C
- SC57 Fuse 57 on fuse holder C
- SC69 Fuse 69 on fuse holder C
- SC72 Fuse 72 on fuse holder C
- T3h 3-pin connector
- T6h 6-pin connector, in left footwell, near centre console
- T6m 6-pin connector
- T6o 6-pin connector
- T10h 10-pin connector, in left footwell, near centre console
- T16b 16-pin connector
- U1 Cigarette lighter

B431 Connection (seat heating), in main wiring harness

B485 Connection 21, in main wiring harness

\* Only models with electric interface for external use

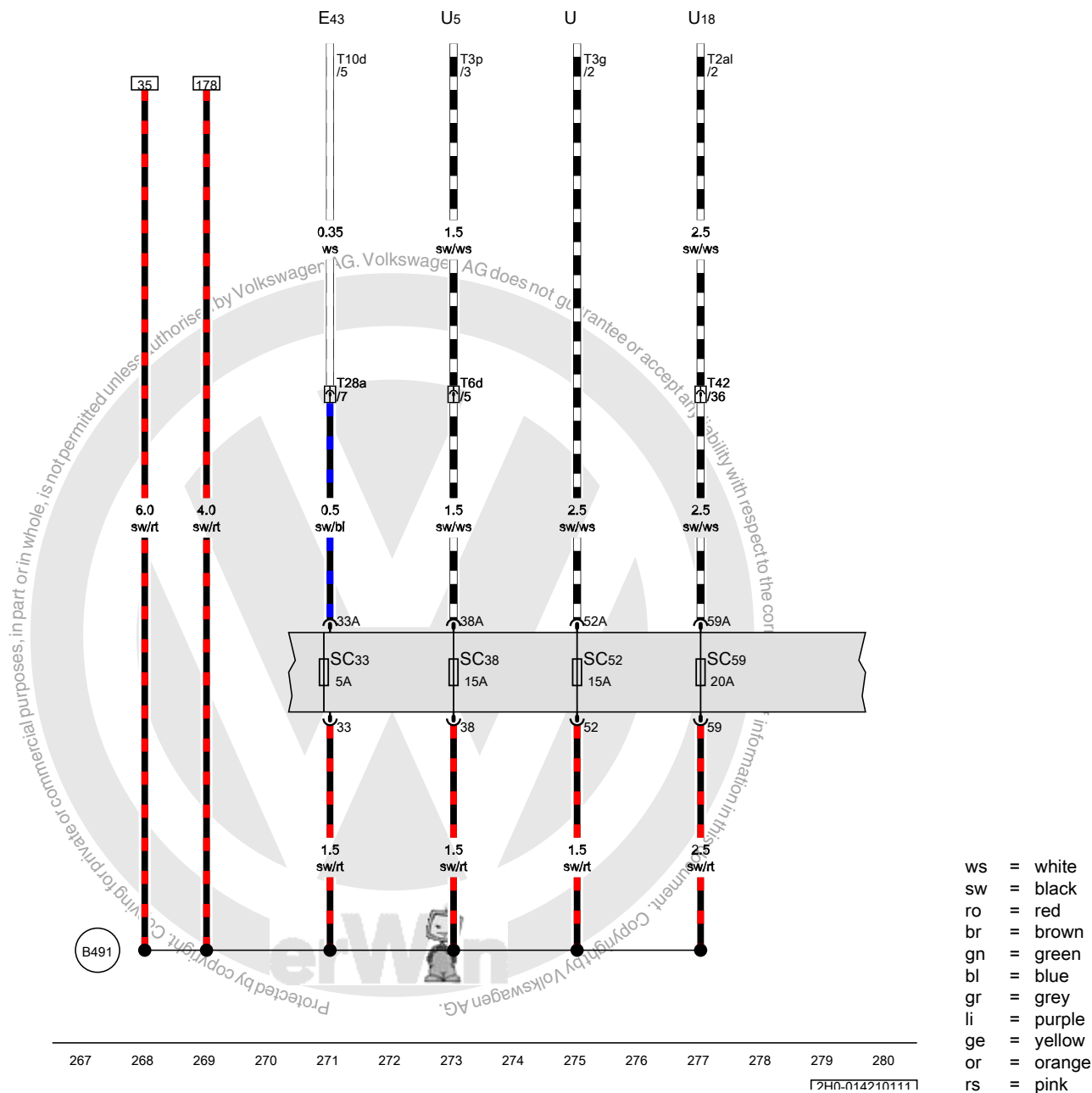


Mirror adjustment switch, Electric socket, 12 V socket

- E43 Mirror adjustment switch
- SC33 Fuse 33 on fuse holder C
- SC38 Fuse 38 on fuse holder C
- SC52 Fuse 52 on fuse holder C
- SC59 Fuse 59 on fuse holder C
- T2al 2-pin connector
- T3g 3-pin connector
- T3p 3-pin connector
- T6d 6-pin connector, on relay carrier
- T10d 10-pin connector
- T28a 28-pin connector, on left A-pillar
- T42 42-pin connector, near handbrake lever
- U Electric socket
- U5 12 V socket
- U18 12 V socket 2

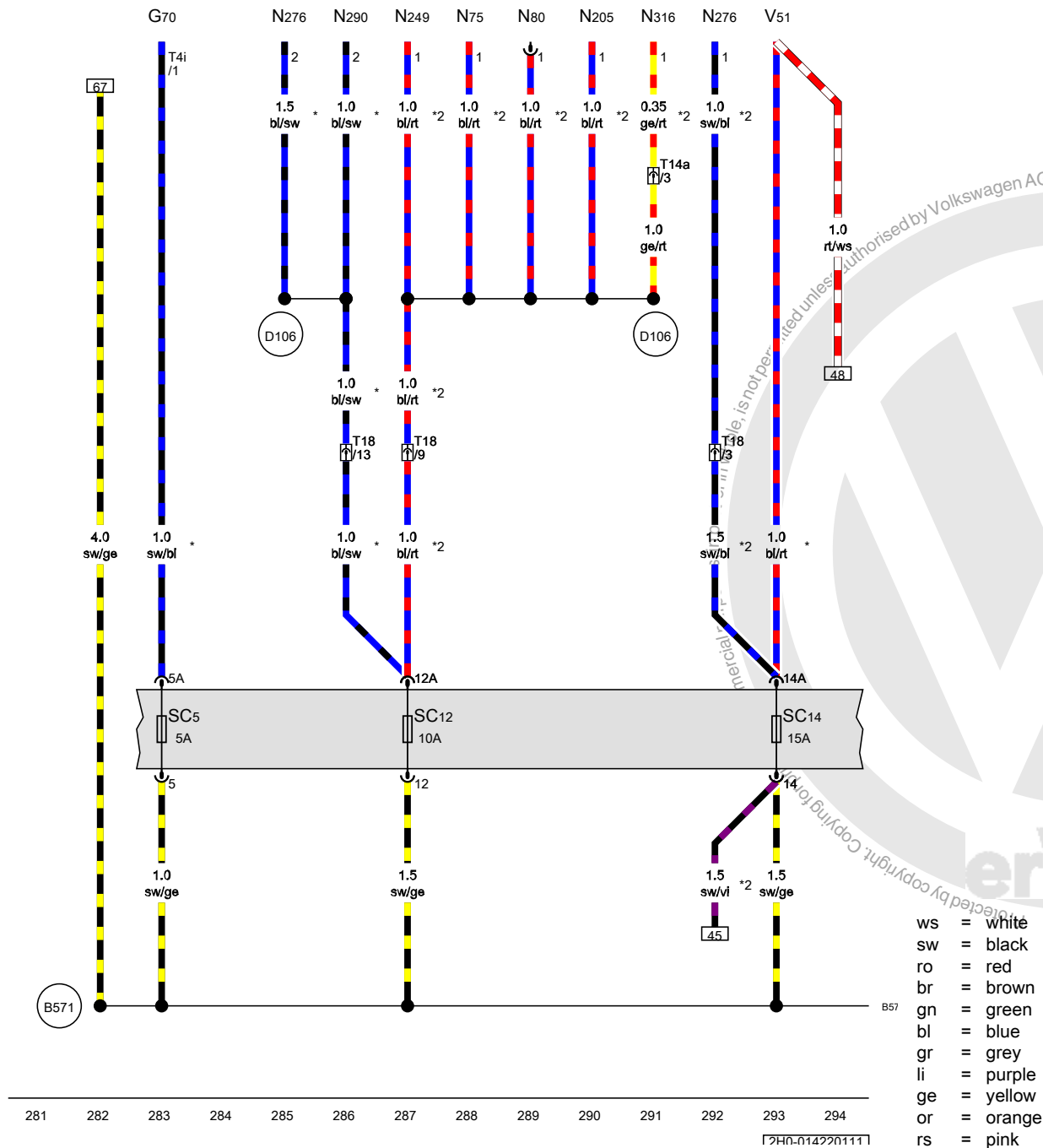
B491 Positive connection (75), in interior wiring harness

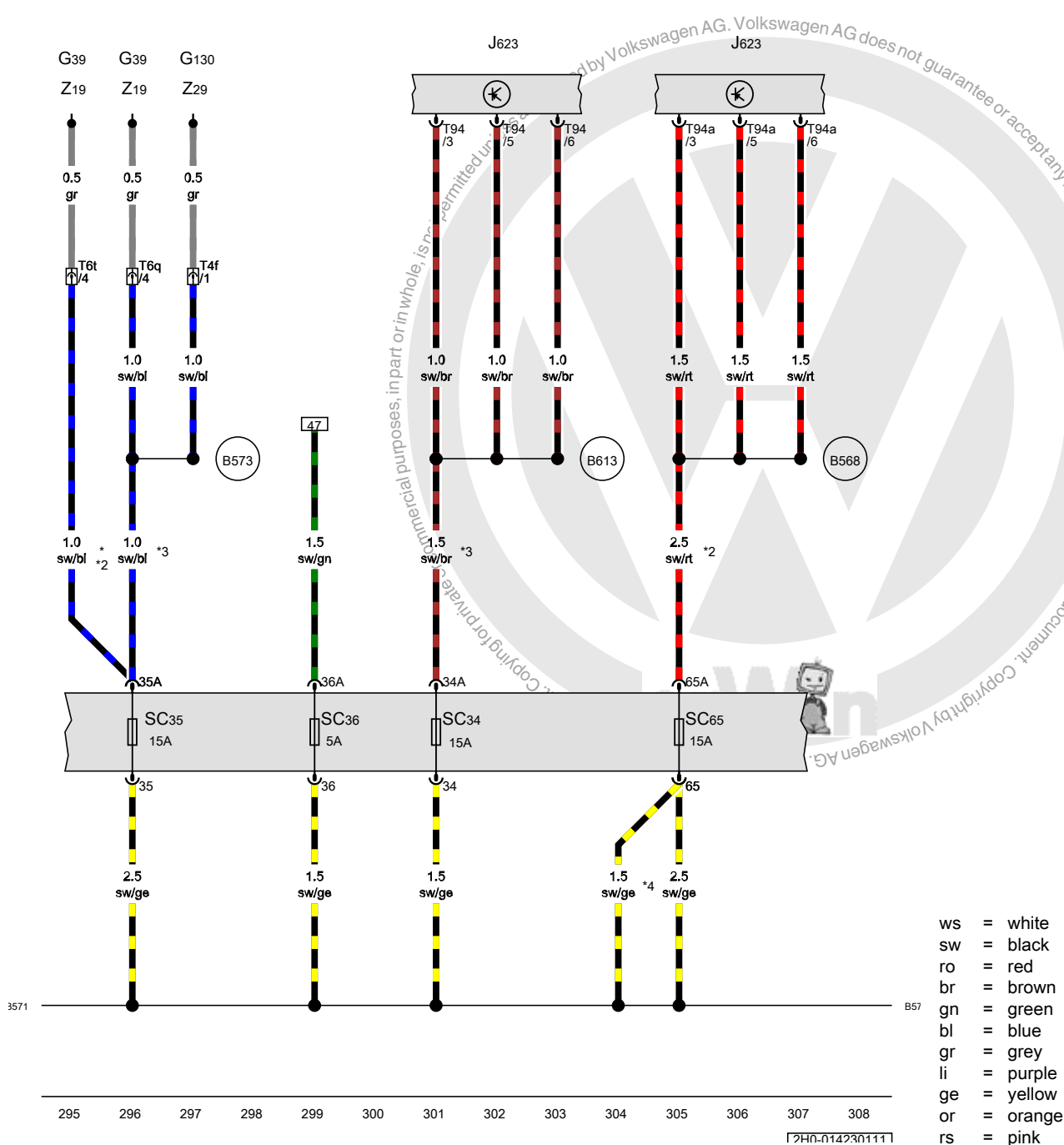
\* see applicable current flow diagram for basic equipment



Air mass meter, Fuel pressure regulating valve, Fuel metering valve, Continued coolant circulation pump

- |      |  |
|------|--|
| G70  | Air mass meter                                     |
| N75  | Charge pressure control solenoid valve             |
| N80  | Activated charcoal filter solenoid valve 1         |
| N205 | Camshaft control valve 1                           |
| N249 | Turbocharger air recirculation valve               |
| N276 | Fuel pressure regulating valve                     |
| N290 | Fuel metering valve                                |
| N316 | Intake manifold flap valve                         |
| SC5  | Fuse 5 on fuse holder C                            |
| SC12 | Fuse 12 on fuse holder C                           |
| SC14 | Fuse 14 on fuse holder C                           |
| T4i  | 4-pin connector                                    |
| T14a | 14-pin connector, front left in engine compartment |
| T18  | 18-pin connector, near engine control unit         |
| V51  | Continued coolant circulation pump                 |
| B571 | Connection 38, in main wiring harness              |
| D106 | Connection 4 in engine compartment wiring harness  |
| *    | Only models with diesel engines                    |
| *2   | Only models with petrol engine                     |





### Engine control unit, Lambda probe heater

- G39 Lambda probe
- G130 Lambda probe after catalytic converter
- J623 Engine control unit
- SC34 Fuse 34 on fuse holder C
- SC35 Fuse 35 on fuse holder C
- SC36 Fuse 36 on fuse holder C
- SC65 Fuse 65 on fuse holder C
- T4f 4-pin connector, front right in engine compartment
- T6q 6-pin connector, front right in engine compartment
- T6t 6-pin connector, front right in engine compartment
- T94 94-pin connector
- T94a 94-pin connector
- Z19 Lambda probe heater
- Z29 Lambda probe 1 heater after catalytic converter

B568 Connection 35, in main wiring harness

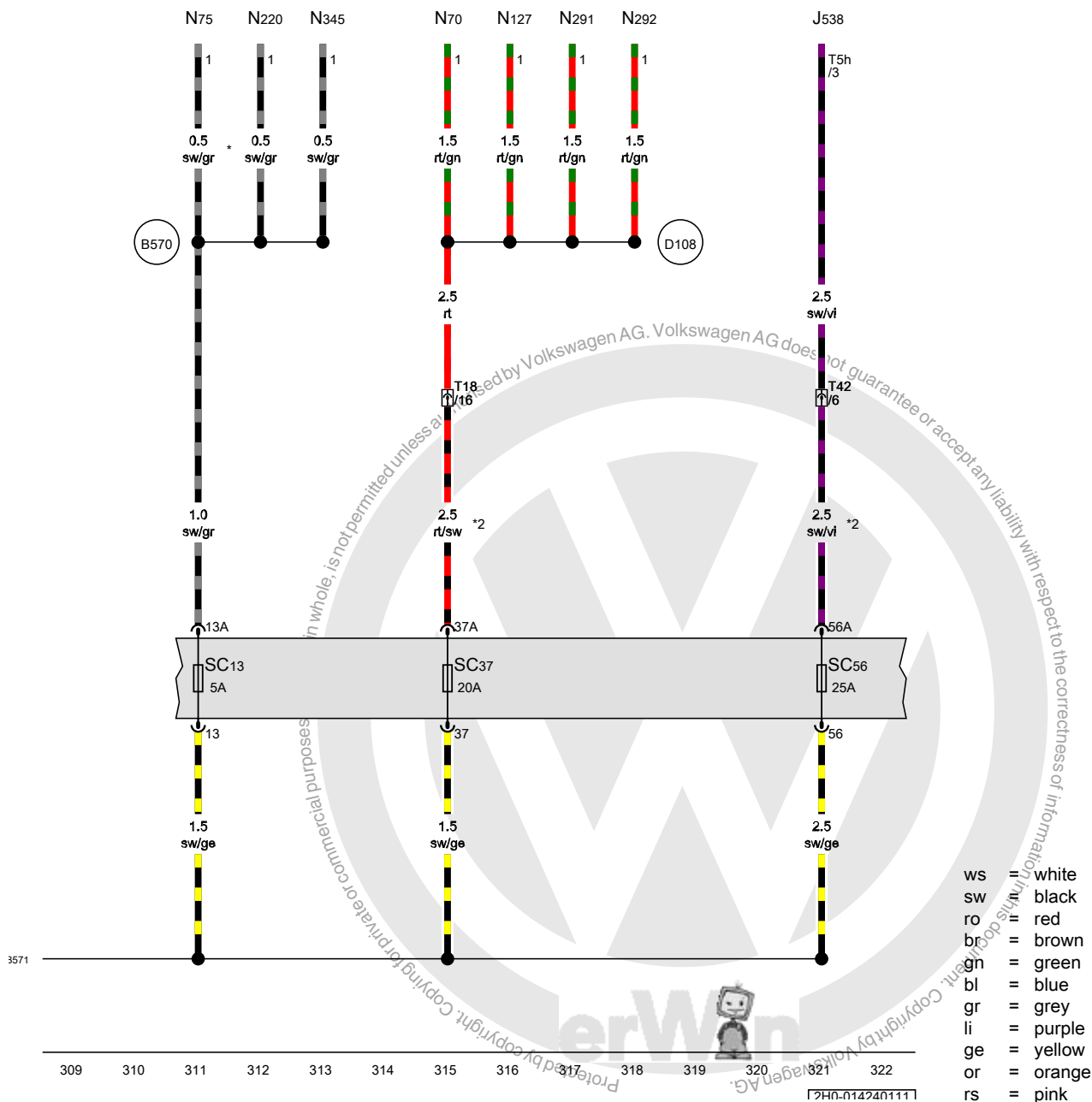
B571 Connection 38, in main wiring harness

B573 Connection 40, in main wiring harness

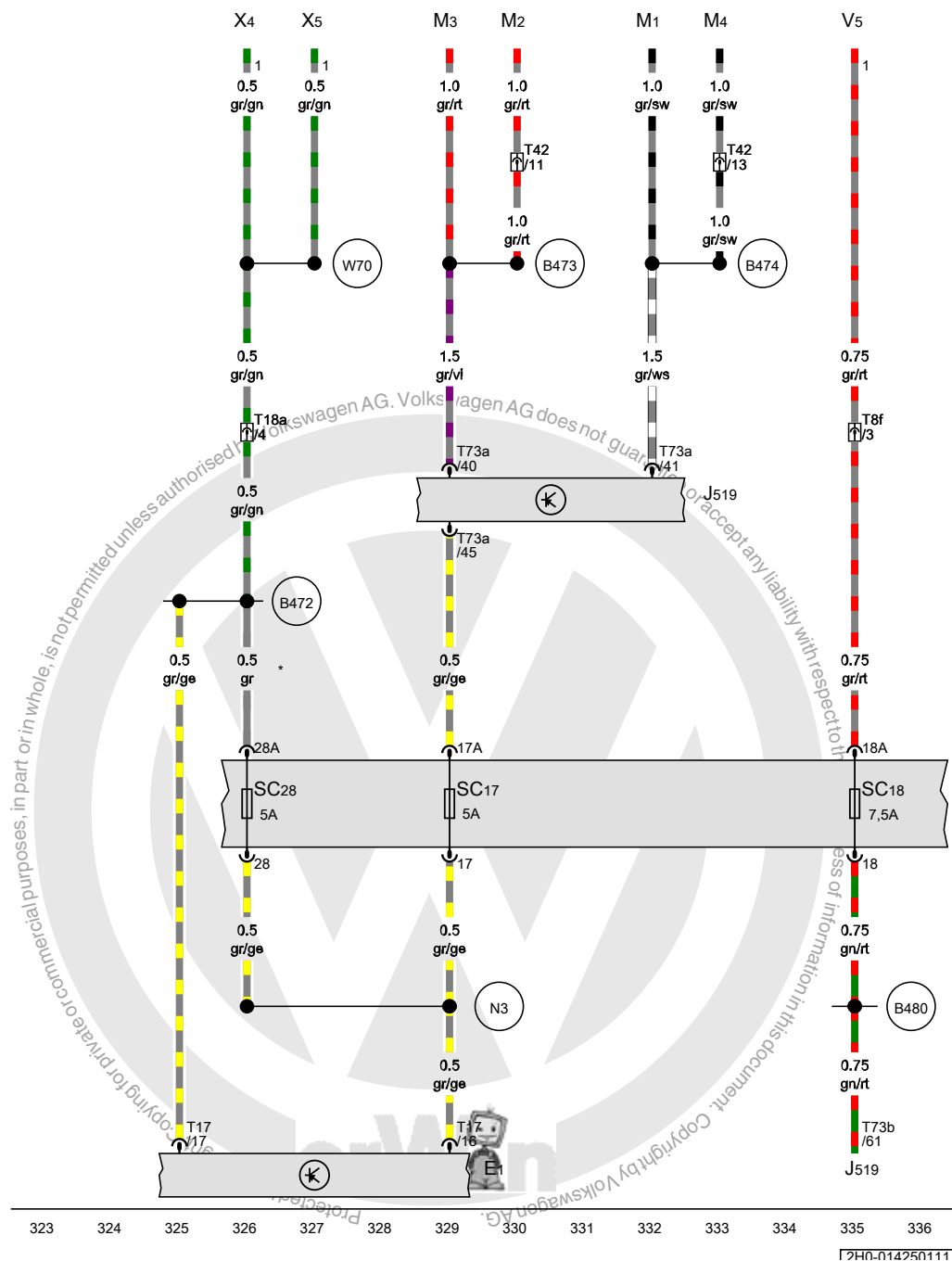
B613 Connection 41, in main wiring harness

- \* Only models with Euro 5 emission standard
- \*2 Only models with diesel engines
- \*3 Only models with petrol engine
- \*4 Only left-hand drive models

Fuel pump control unit, Charge pressure control solenoid valve, Exhaust flap valve, Exhaust gas recirculation cooler changeover valve



- J538 Fuel pump control unit
- N70 Ignition coil 1 with output stage
- N75 Charge pressure control solenoid valve
- N127 Ignition coil 2 with output stage
- N220 Exhaust flap valve
- N291 Ignition coil 3 with output stage
- N292 Ignition coil 4 with output stage
- N345 Exhaust gas recirculation cooler changeover valve
- SC13 Fuse 13 on fuse holder C
- SC37 Fuse 37 on fuse holder C
- SC56 Fuse 56 on fuse holder C
- T5h 5-pin connector
- T18 18-pin connector, near engine control unit
- T42 42-pin connector, near handbrake lever
- B570 Connection 37, in main wiring harness
- B571 Connection 38, in main wiring harness
- D108 Connection 6 in engine compartment wiring harness
- \* see applicable current flow diagram for engine
- \*2 Only models with petrol engine



Left side light bulb, Right tail light bulb, Right side light bulb,  
Left tail light bulb, Washer pump, Left number plate light,  
Right number plate light

- E1 Light switch
- J519 Onboard supply control unit
- M1 Left side light bulb
- M2 Right tail light bulb
- M3 Right side light bulb
- M4 Left tail light bulb
- SC17 Fuse 17 on fuse holder C
- SC18 Fuse 18 on fuse holder C
- SC28 Fuse 28 on fuse holder C
- T8f 8-pin connector
- T17 17-pin connector
- T18a 18-pin connector, near engine control unit
- T42 42-pin connector
- T73a 73-pin connector
- T73b 73-pin connector
- V5 Washer pump
- X4 Left number plate light
- X5 Right number plate light
- B472 Connection 8, in main wiring harness
- B473 Connection 9, in main wiring harness
- B474 Connection 10, in main wiring harness
- B480 Connection 16, in main wiring harness
- N3 Connection 2, in headlight range control wiring harness
- W70 Positive connection 2 (58), in number plate wiring harness
- \* see applicable current flow diagram for basic equipment

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



Left headlight dipped beam bulb, Right headlight dipped beam bulb, Left headlight range control motor, Right headlight range control motor

- E102 Headlight range control regulator
- M29 Left headlight dipped beam bulb
- M31 Right headlight dipped beam bulb
- SC29 Fuse 29 on fuse holder C
- SC55 Fuse 55 on fuse holder C
- T6c 6-pin connector
- T10d 10-pin connector
- T10h 10-pin connector, in left footwell, near centre console
- V48 Left headlight range control motor
- V49 Right headlight range control motor

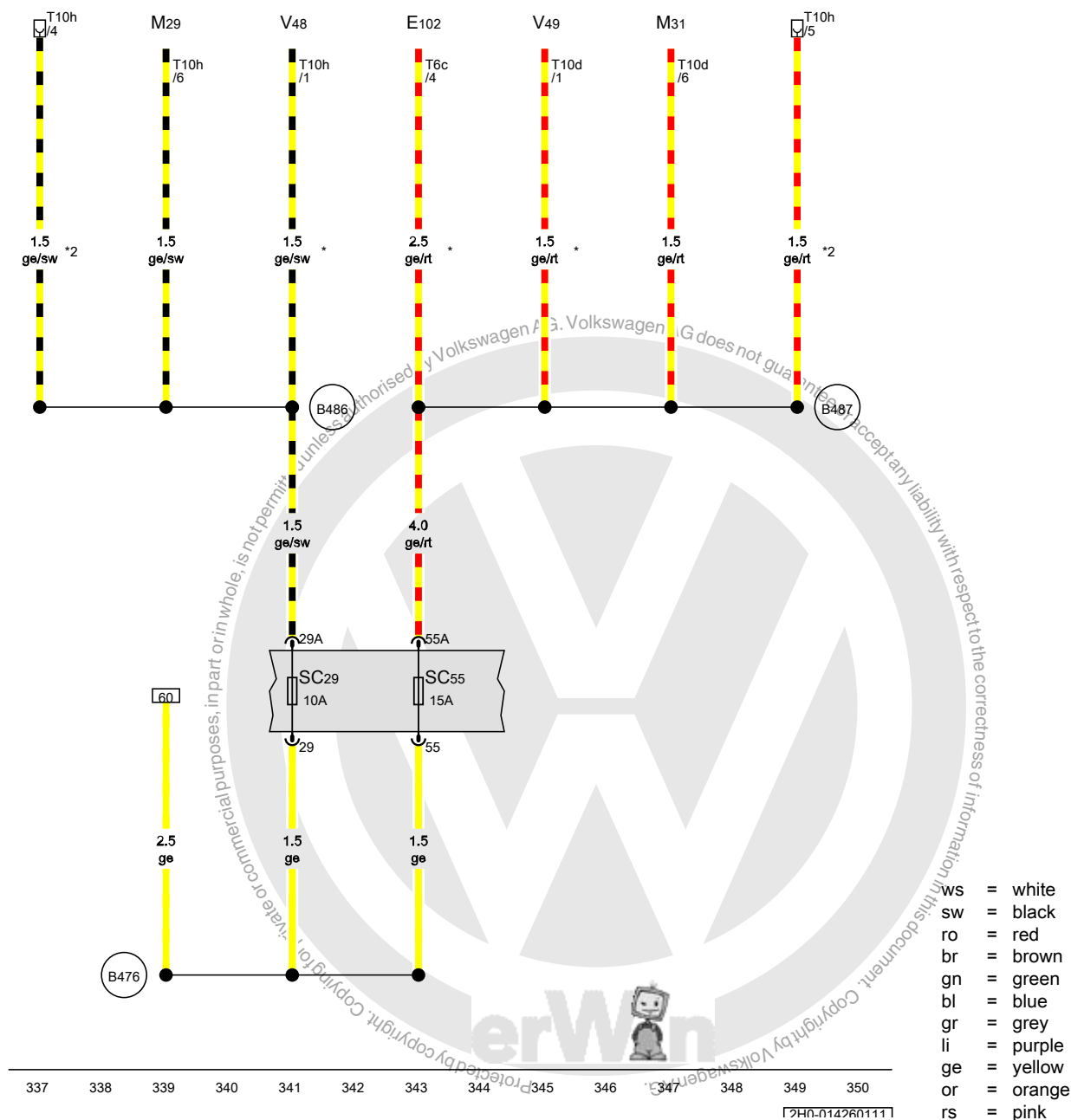
B476 Connection 12, in main wiring harness

B486 Connection 22, in main wiring harness

B487 Connection 23, in main wiring harness

\* Only models with headlight range control

\*2 Only models with electric interface for external use



Light switch, Rear fog light warning lamp, Left fog light bulb, Right fog light bulb, Rear left fog light bulb, Rear right fog light bulb, Left daytime running light bulb, Right daytime running light bulb

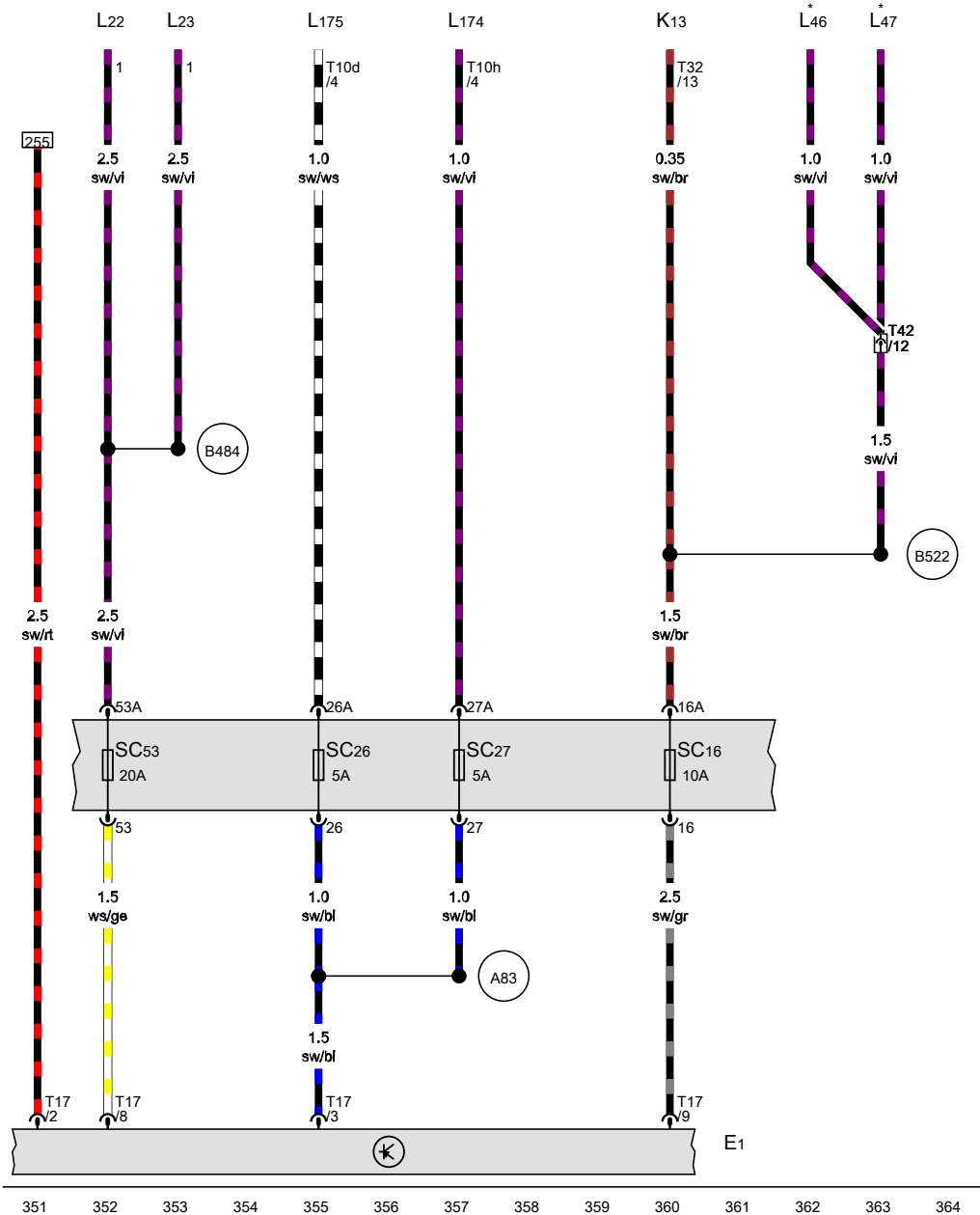
- E1 Light switch
- K13 Rear fog light warning lamp
- L22 Left fog light bulb
- L23 Right fog light bulb
- L46 Rear left fog light bulb
- L47 Rear right fog light bulb
- L174 Left daytime running light bulb
- L175 Right daytime running light bulb
- SC16 Fuse 16 on fuse holder C
- SC26 Fuse 26 on fuse holder C
- SC27 Fuse 27 on fuse holder C
- SC53 Fuse 53 on fuse holder C
- T10d 10-pin connector
- T10h 10-pin connector
- T17 17-pin connector
- T32 32-pin connector
- T42 42-pin connector, near handbrake lever

A83 Connection (daytime running lights), in dash panel wiring harness

B484 Connection 20, in main wiring harness

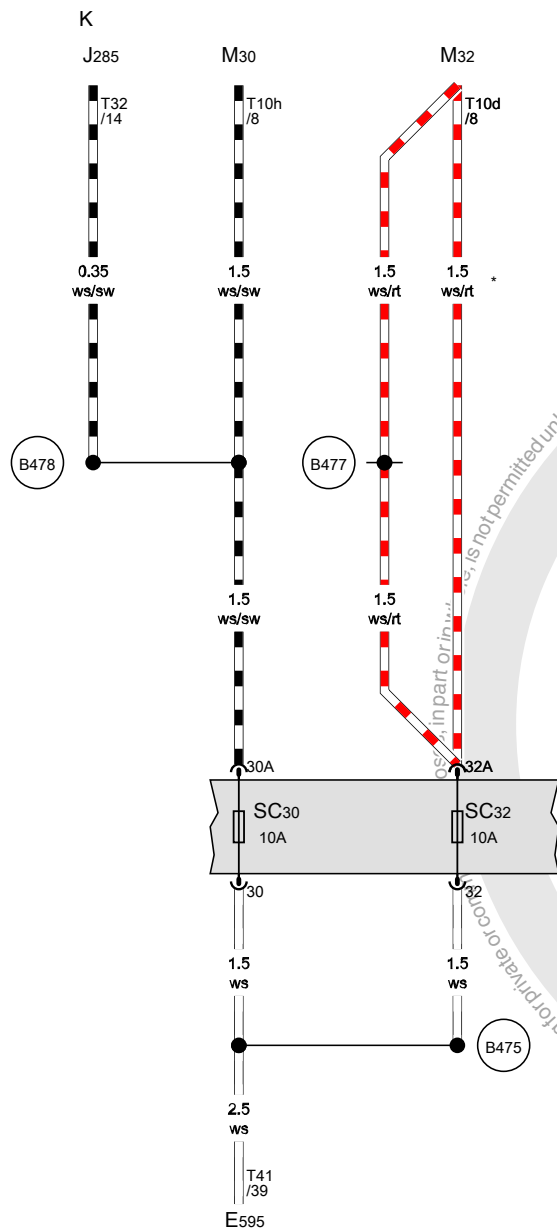
B522 Connection (FL), in main wiring harness

\* According to equipment



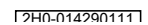
- ws = white
- sw = black
- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

Steering column combination switch, Left headlight main beam bulb, Right headlight main beam bulb



- E595 Steering column combination switch
- J285 Control unit in dash panel insert
- K Dash panel insert
- M30 Left headlight main beam bulb
- M32 Right headlight main beam bulb
- SC30 Fuse 30 on fuse holder C
- SC32 Fuse 32 on fuse holder C
- T10d 10-pin connector
- T10h 10-pin connector
- T32 32-pin connector
- T41 41-pin connector
- B475 Connection 11, in main wiring harness
- B477 Connection 13, in main wiring harness
- B478 Connection 14, in main wiring harness
- \* Only models with no electric interface

ws = white  
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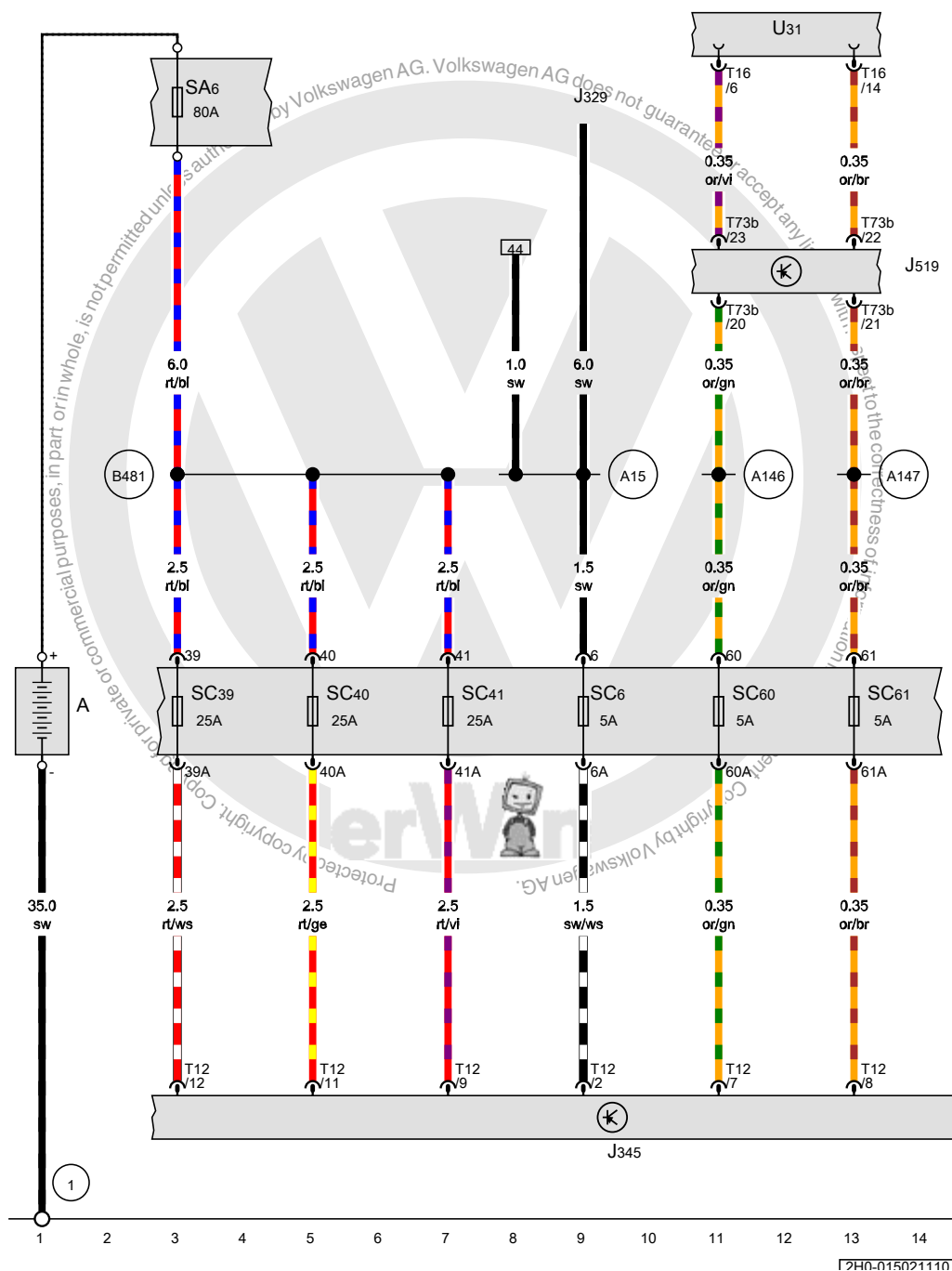
J345	Trailer detector control unit
J519	Onboard supply control unit
SC39	Fuse 39 on fuse holder C
SC40	Fuse 40 on fuse holder C
SC41	Fuse 41 on fuse holder C
SC60	Fuse 60 on fuse holder C
SC61	Fuse 61 on fuse holder C
T12	12-pin connector
T16	16-pin connector
T73b	73-pin connector
U31	Diagnostic connection, near driver side A-pillar
A146	Connection (convenience CAN bus, high), in dash panel wiring harness
A147	Connection (convenience CAN bus, low), in dash panel wiring harness
B481	Connection 17, in main wiring harness

01.2011

## Preparation for trailer coupling , (1D7)

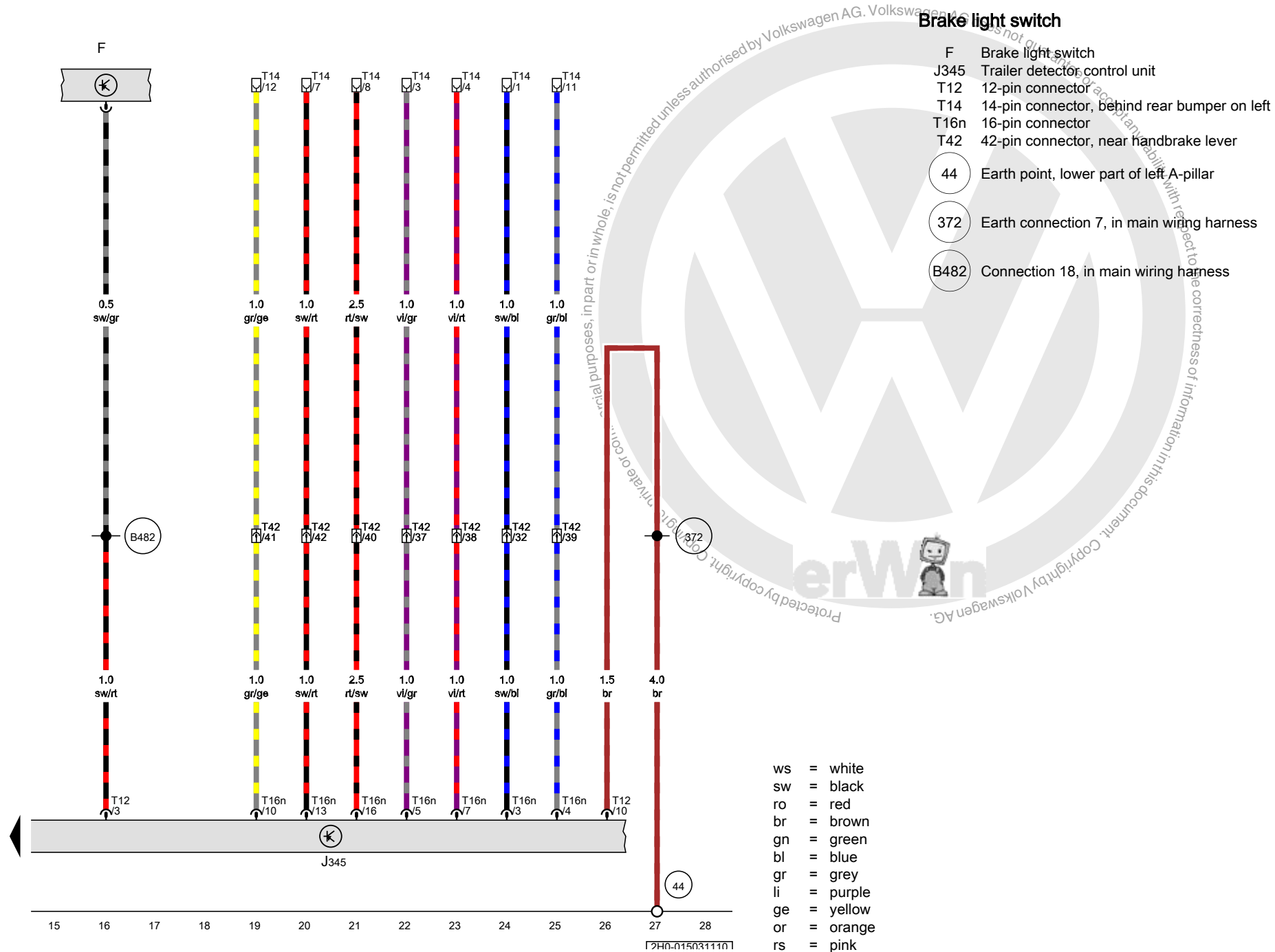
From December 2009

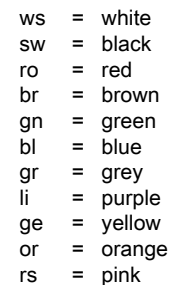




Battery, Fuse 6 on fuse holder C, Fuse 6 in fuse holder A, Fuse 39 on fuse holder C, Fuse 40 on fuse holder C, Fuse 41 on fuse holder C, Diagnostic connection

- A Battery
  - J329 Terminal 15 voltage supply relay
  - J345 Trailer detector control unit
  - J519 Onboard supply control unit
  - SC6 Fuse 6 on fuse holder C
  - SA6 Fuse 6 in fuse holder A
  - SC39 Fuse 39 on fuse holder C
  - SC40 Fuse 40 on fuse holder C
  - SC41 Fuse 41 on fuse holder C
  - SC60 Fuse 60 on fuse holder C
  - SC61 Fuse 61 on fuse holder C
  - T12 12-pin connector
  - T16 16-pin connector
  - T73b 73-pin connector
  - U31 Diagnostic connection, near driver side A-pillar
- 1 Earth strap, battery - body
  - A15 Positive connection (15), in instrument wiring harness
  - A146 Connection (convenience CAN bus, high), in dash panel wiring harness
  - A147 Connection (convenience CAN bus, low), in dash panel wiring harness
  - B481 Connection 17, in main wiring harness





- |      |   |
|------|---|
| E1   | Light switch                                      |
| J285 | Control unit in dash panel insert                 |
| K    | Dash panel insert                                 |
| MX3  | Left tail light                                   |
| SC16 | Fuse 16 on fuse holder C                          |
| T5i  | 5-pin connector                                   |
| T14  | 14-pin connector                                  |
| T17  | 17-pin connector                                  |
| TV23 | Push-in bridge                                    |
| T32  | 32-pin connector                                  |
| T42  | 42-pin connector, near handbrake lever            |
| 28   | Earth point, on bulkhead                          |
| 87   | Earth connection 2, in rear wiring harness        |
| B522 | Connection (FL), in main wiring harness           |
| *    | Only models with preparation for trailer coupling |
| *2   | Only models with rear fog lights                  |



Reversing light switch, Fuse 3 on fuse holder C

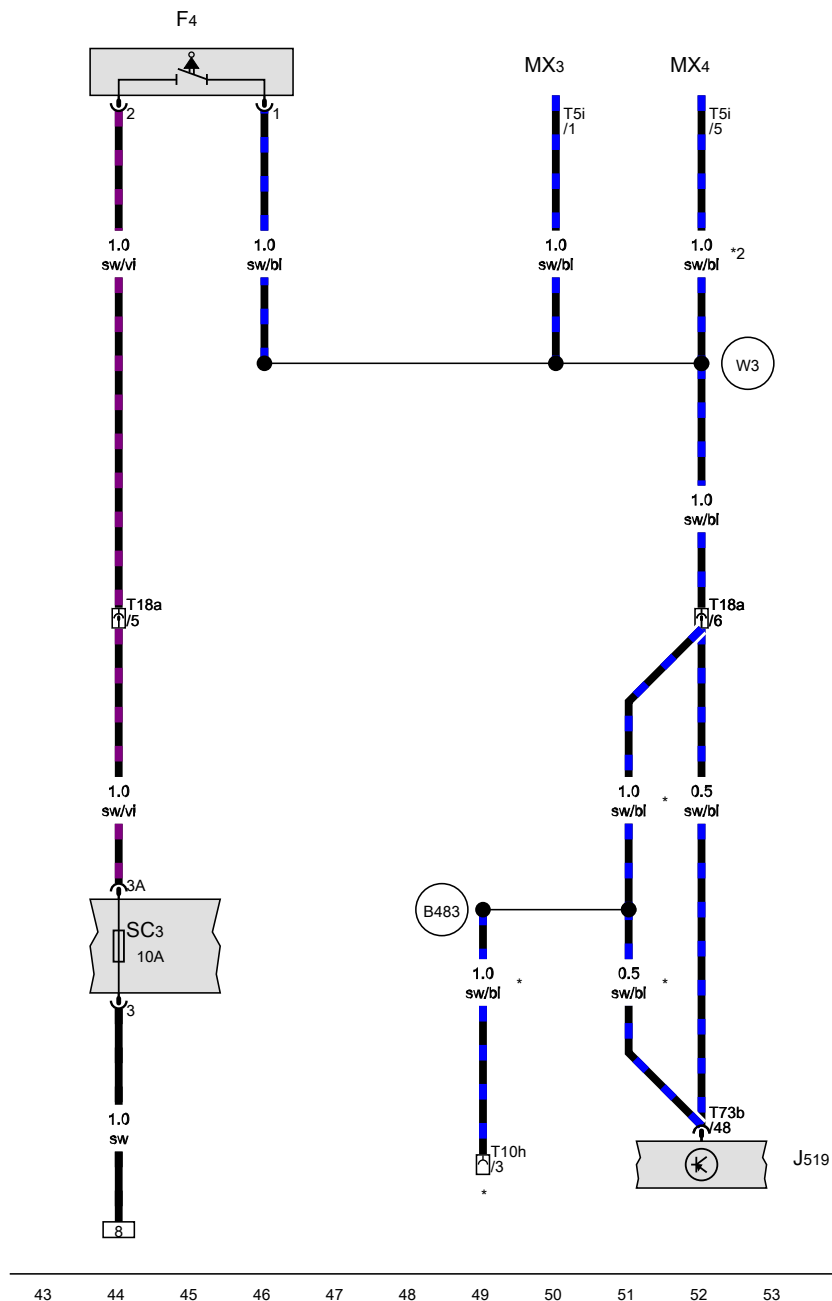
- F4 Reversing light switch
- J519 Onboard supply control unit
- MX3 Left tail light
- MX4 Right tail light
- SC3 Fuse 3 on fuse holder C
- T5i 5-pin connector
- T10h 10-pin connector
- T18a 18-pin connector, near engine control unit
- T73b 73-pin connector

B483 Connection 19, in main wiring harness

W3 Connection in rear wiring harness

\* Only models with electric interface for external use

\*2 Only models with no rear fog light



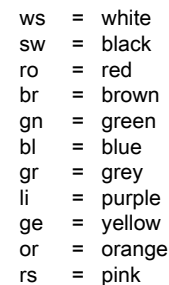
17H0-015051110

- ws = white
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## Preparation for radio

From December 2009





A	Battery
E1	Light switch
SA2	Fuse 2 in fuse holder A
SC67	Fuse 67 on fuse holder C
T8c	8-pin connector, in slot for radio, centre of dash panel
T17	17-pin connector
T21a	21-pin connector, on relay carrier
1	Earth strap, battery - body
A7	Positive connection (58 D1), in dash panel wiring harness
B322	Positive connection 8 (30a) in main wiring harness
B472	Connection 8, in main wiring harness
D78	Positive connection 1 (30a), in engine compartment wiring harness
V28	Connection 1, in radio wiring harness

Ignition/starter switch, Dash panel insert

- D Ignition/starter switch
- G21 Speedometer
- J285 Control unit in dash panel insert
- K Dash panel insert
- T6f 6-pin connector
- T8c 8-pin connector, in slot for radio, centre of dash panel
- T21 21-pin connector, on relay carrier
- T21a 21-pin connector, on relay carrier
- T32 32-pin connector

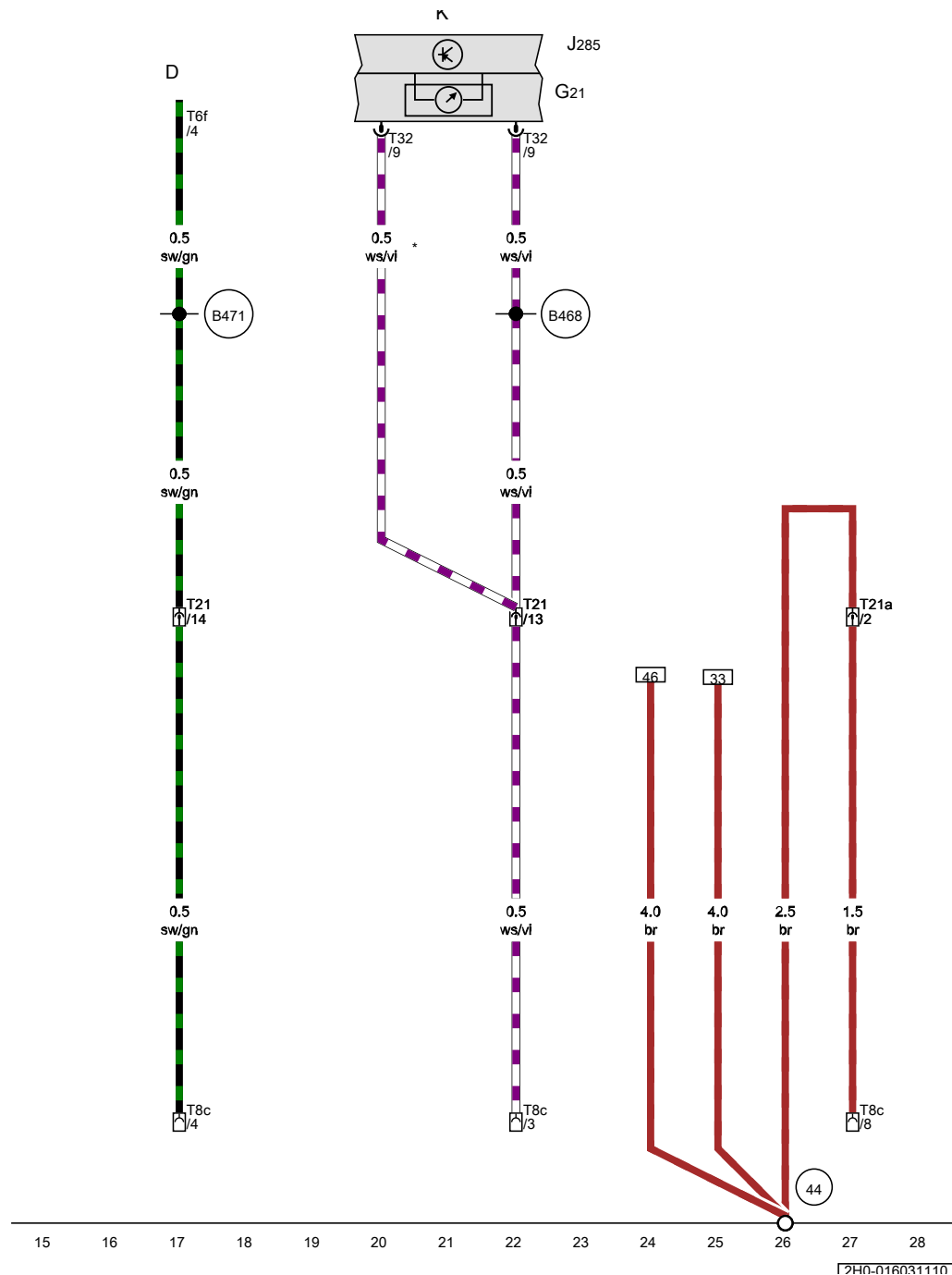
44 Earth point, lower part of left A-pillar

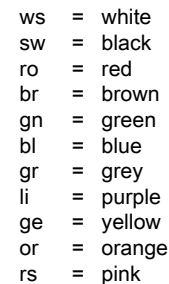
B468 Connection 4, in main wiring harness

B471 Connection 7, in main wiring harness

\* Only models with no electric interface

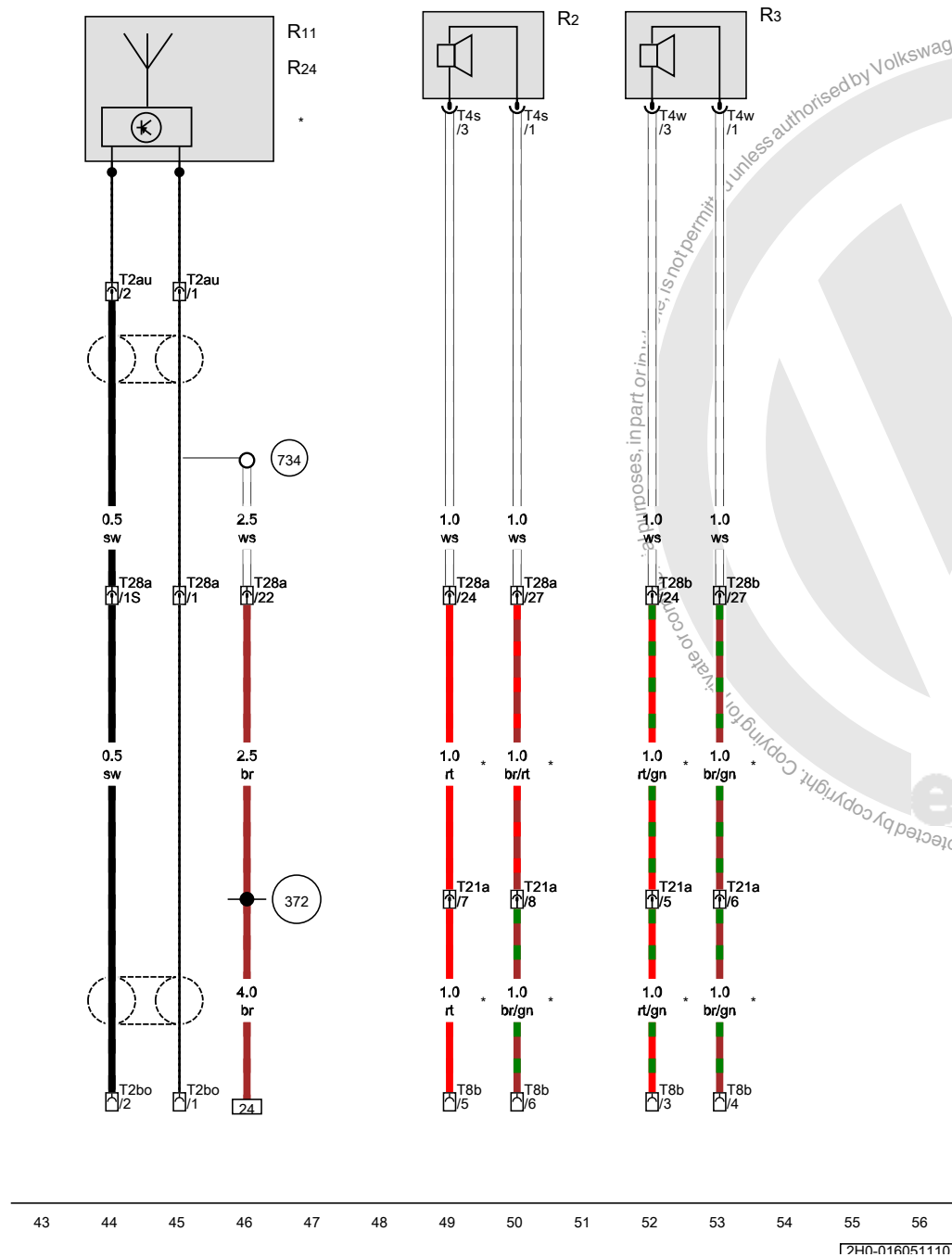
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\* Only left-hand drive models

Front left loudspeaker, Front right loudspeaker, Aerial, Aerial amplifier



- R2 Front left loudspeaker
- R3 Front right loudspeaker
- R11 Aerial, in front passenger side exterior mirror housing
- R24 Aerial amplifier
- T2au 2-pin connector, in left door, near exterior mirror
- T2bo 2-pin connector
- T4s 4-pin connector
- T4w 4-pin connector
- T8b 8-pin connector, in slot for radio, centre of dash panel
- T21a 21-pin connector, on relay carrier
- T28a 28-pin connector, on left A-pillar
- T28b 28-pin connector, on right A-pillar

372 Earth connection 7, in main wiring harness

734 Earth point in front left door

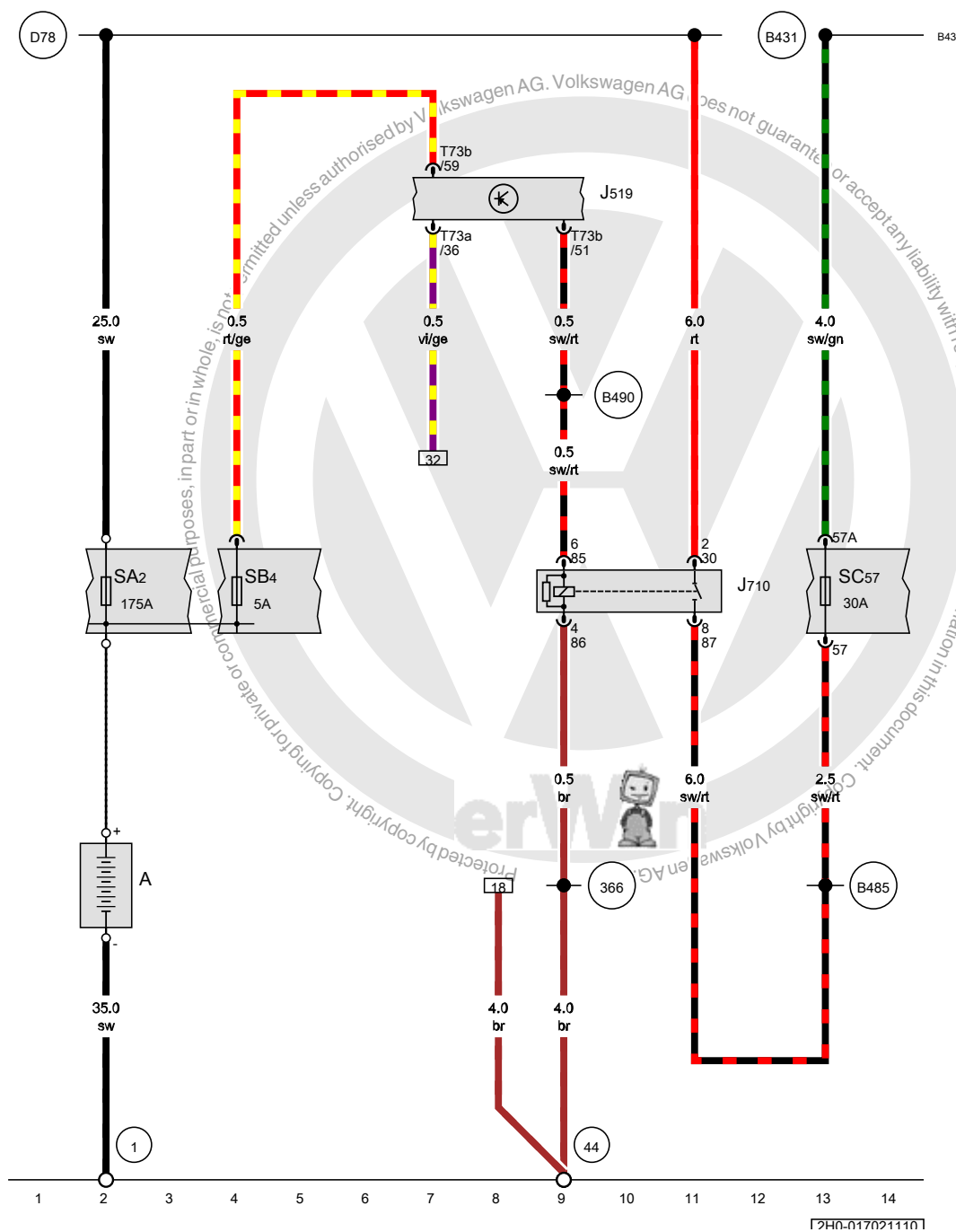
\* Only right-hand drive models

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## **Seat heating**

From December 2009





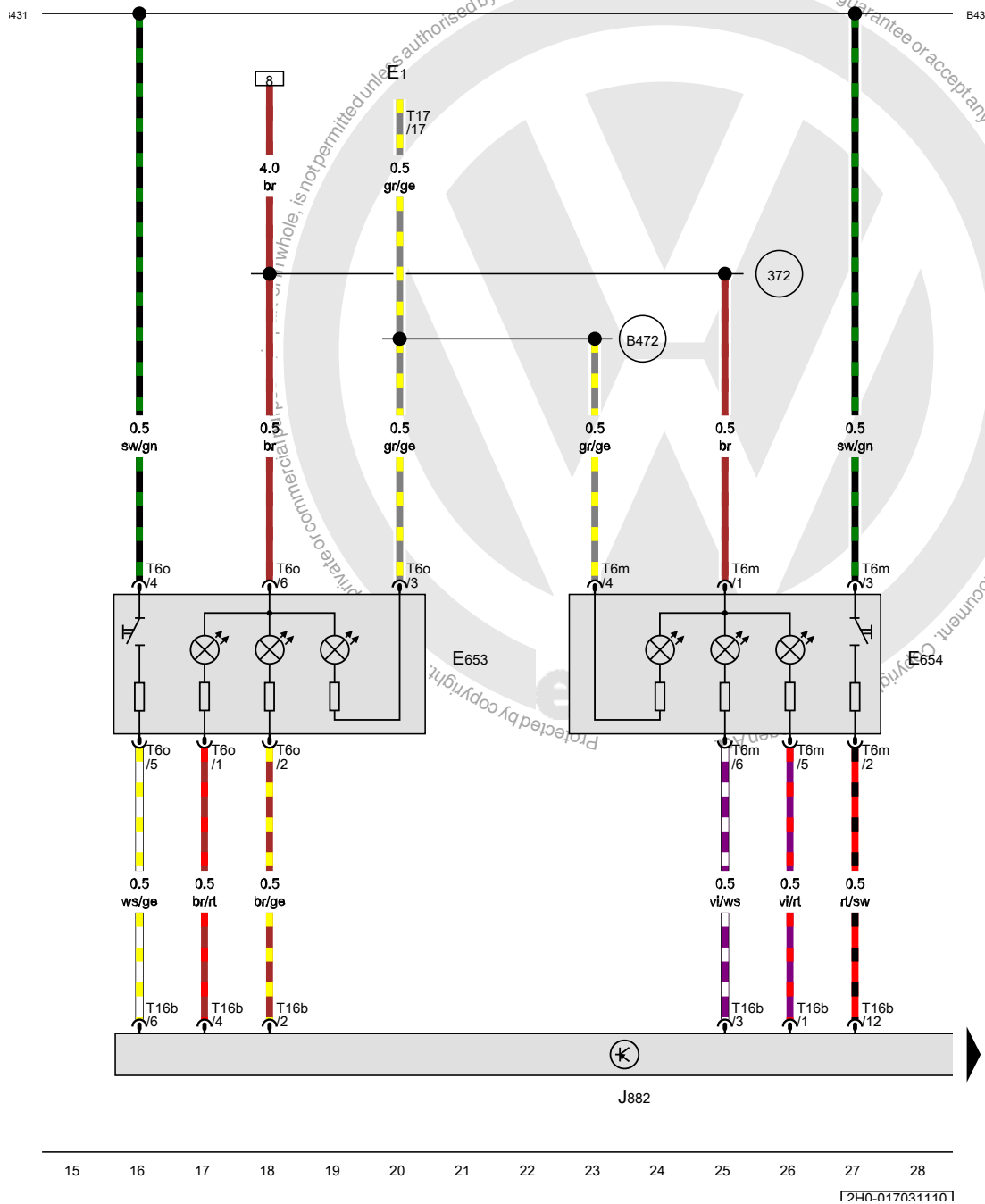
Battery, Onboard supply control unit, Voltage supply relay 2, Fuse 2 in fuse holder A, Fuse 4 on fuse holder B, Fuse 57 on fuse holder C

- A Battery
- J519 Onboard supply control unit
- J710 Voltage supply relay 2
- SA2 Fuse 2 in fuse holder A
- SB4 Fuse 4 on fuse holder B
- SC57 Fuse 57 on fuse holder C
- T73a 73-pin connector
- T73b 73-pin connector

- 1 Earth strap, battery - body
- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- B431 Connection (seat heating), in main wiring harness
- B485 Connection 21, in main wiring harness
- B490 Connection 26, in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness

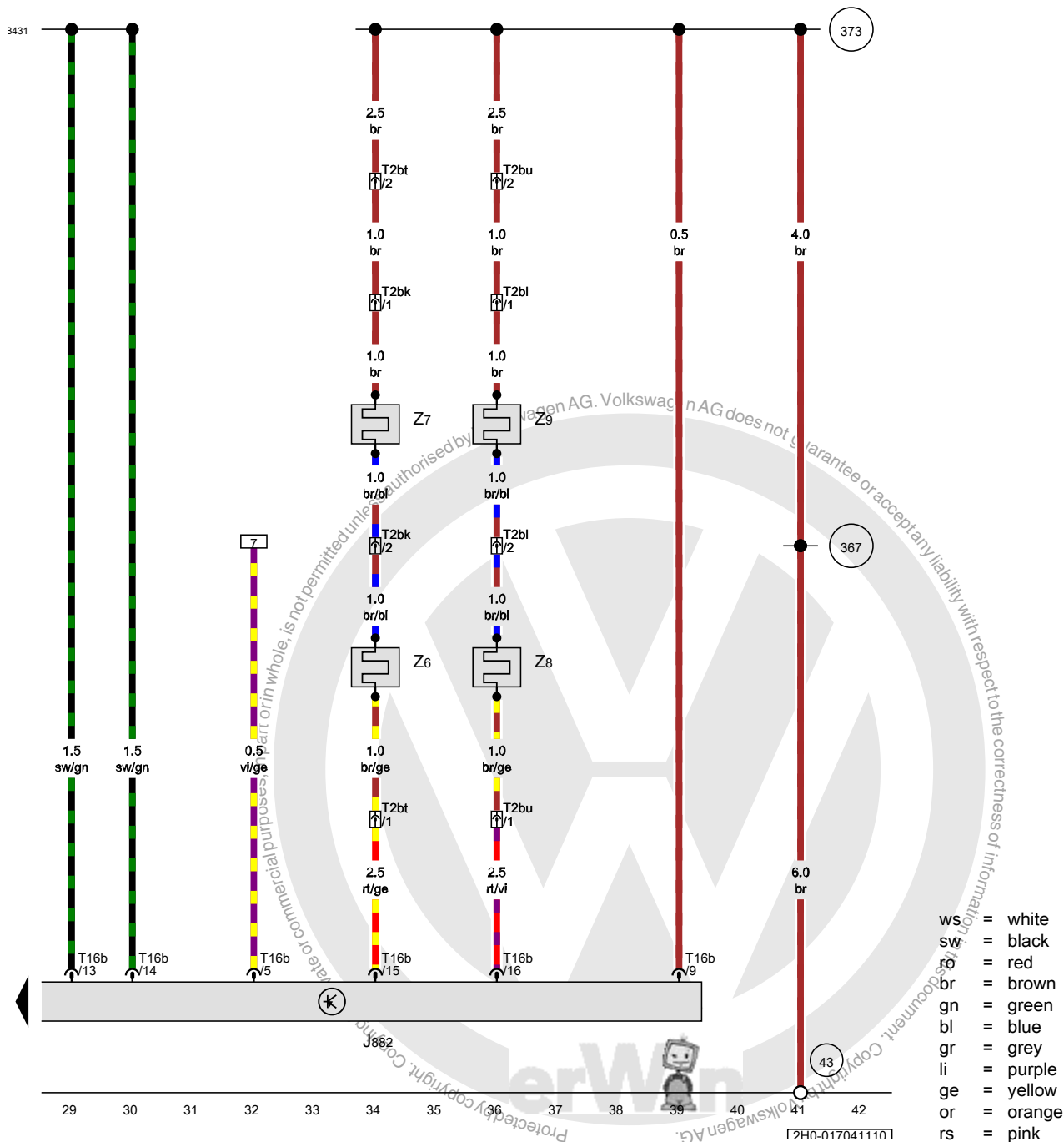
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Light switch, Button for left seat heating, Button for right seat heating, Seat heating control unit

- E1 Light switch
- E653 Button for left seat heating
- E654 Button for right seat heating
- J882 Seat heating control unit
- T6m 6-pin connector
- T6o 6-pin connector
- T16b 16-pin connector
- T17 17-pin connector
- 372 Earth connection 7, in main wiring harness
- B431 Connection (seat heating), in main wiring harness
- B472 Connection 8, in main wiring harness



Seat heating control unit, Heated backrest for driver seat,  
Heated seat cushion for front passenger seat, Heated  
backrest for front passenger seat

- |      |  |
|------|--|
| J882 | Seat heating control unit                    |
| T2bk | 2-pin connector, in seat                     |
| T2bl | 2-pin connector, in seat                     |
| T2bt | 2-pin connector, under seat on front left    |
| T2bu | 2-pin connector, under seat on front right   |
| T16b | 16-pin connector                             |
| Z6   | Heated seat cushion for driver seat          |
| Z7   | Heated backrest for driver seat              |
| Z8   | Heated seat cushion for front passenger seat |
| Z9   | Heated backrest for front passenger seat     |

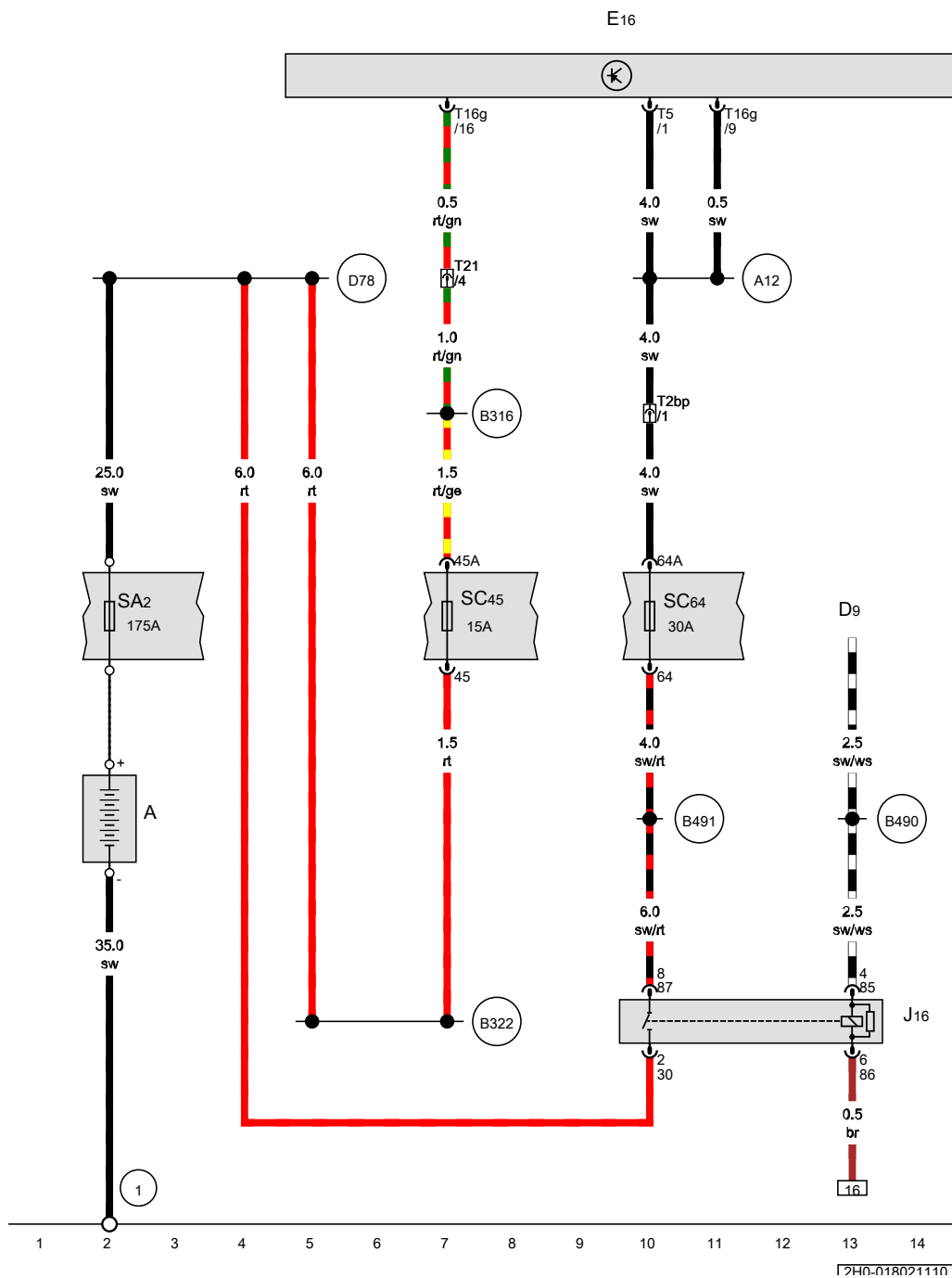
- 43 Earth point, lower part of right A-pillar
- 367 Earth connection 2, in main wiring harness
- 373 Earth connection 8, in main wiring harness
- B431 Connection (seat heating), in main wiring harness

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## Passenger compartment heater and ventilation system

From December 2009

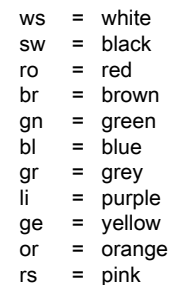




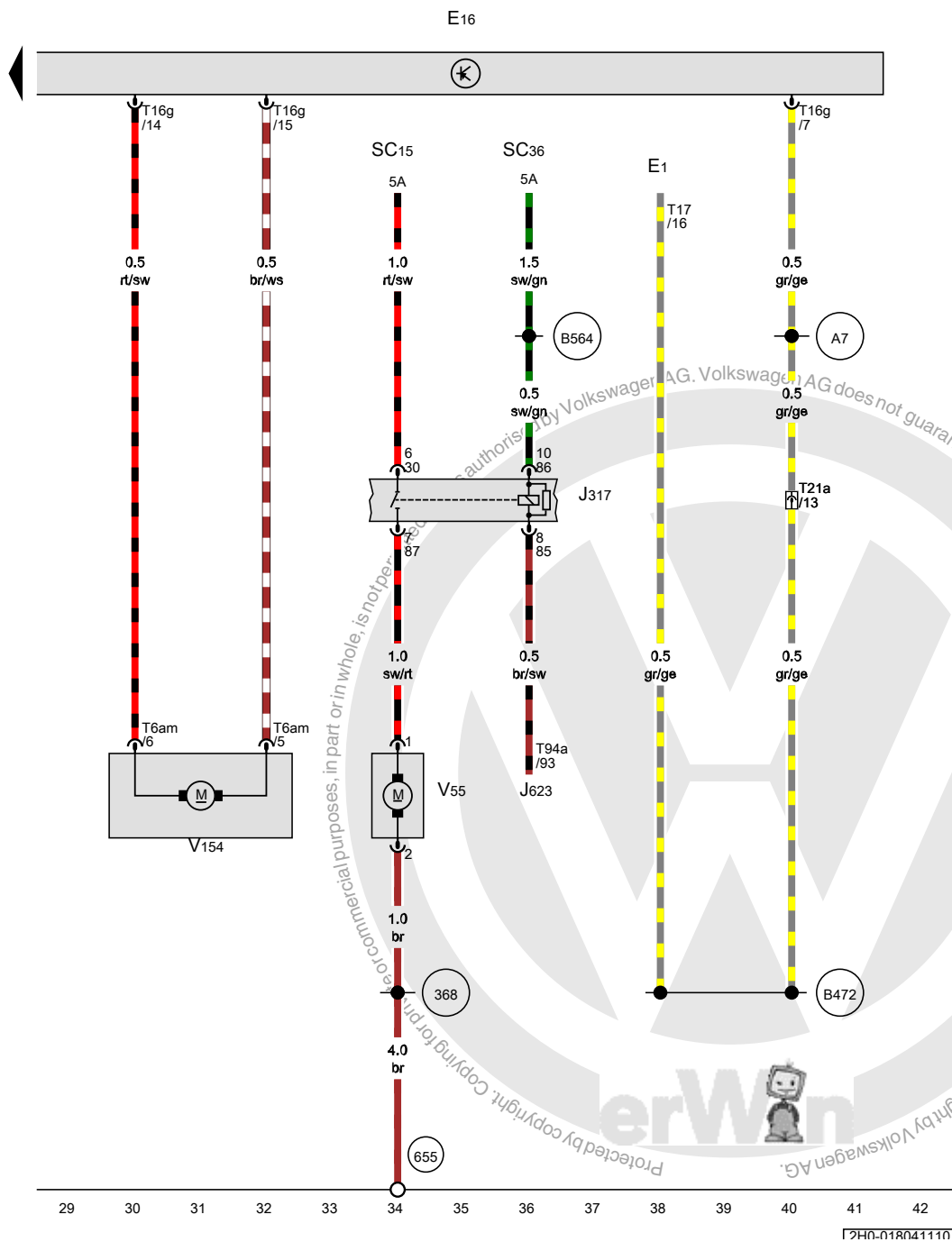
Battery, Heater/heat output switch, Current supply relay, Fuse 2 in fuse holder A, Fuse 45 on fuse holder C, Fuse 64 on fuse holder C

- A Battery
- D9 Electronic ignition lock
- E16 Heater/heat output switch
- J16 Current supply relay
- SA2 Fuse 2 in fuse holder A
- SC45 Fuse 45 on fuse holder C
- SC64 Fuse 64 on fuse holder C
- T2bp 2-pin connector, near steering column
- T5 5-pin connector
- T16g 16-pin connector
- T21 21-pin connector, on relay carrier
- 1 Earth strap, battery - body
- A12 Positive connection (75a), in dash panel wiring harness
- B316 Positive connection 2 (30a) in main wiring harness
- B322 Positive connection 8 (30a) in main wiring harness
- B490 Connection 26, in main wiring harness
- B491 Positive connection (75), in interior wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness

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E16	Heater/heat output switch
N24	Fresh air blower series resistor with overheating fuse
T2bp	2-pin connector, near steering column
T4z	4-pin connector
T5	5-pin connector
T16g	16-pin connector
V4	Hot air blower
44	Earth point, lower part of left A-pillar
80	Earth connection 1, in dash panel wiring harness
366	Earth connection 1, in main wiring harness
377	Earth connection 12, in main wiring harness
A56	Positive connection 2 (30), in dash panel wiring harness



Light switch, Heater/heat output switch, Circulation pump, Fresh air and air recirculation flap control motor

- E1 Light switch
- E16 Heater/heat output switch
- J317 Terminal 30 voltage supply relay
- J623 Engine control unit
- SC15 Fuse 15 on fuse holder C
- SC36 Fuse 36 on fuse holder C
- T6am 6-pin connector
- T16g 16-pin connector
- T17 17-pin connector
- T21a 21-pin connector, on relay carrier
- T94a 94-pin connector
- V55 Circulation pump
- V154 Fresh air and air recirculation flap control motor

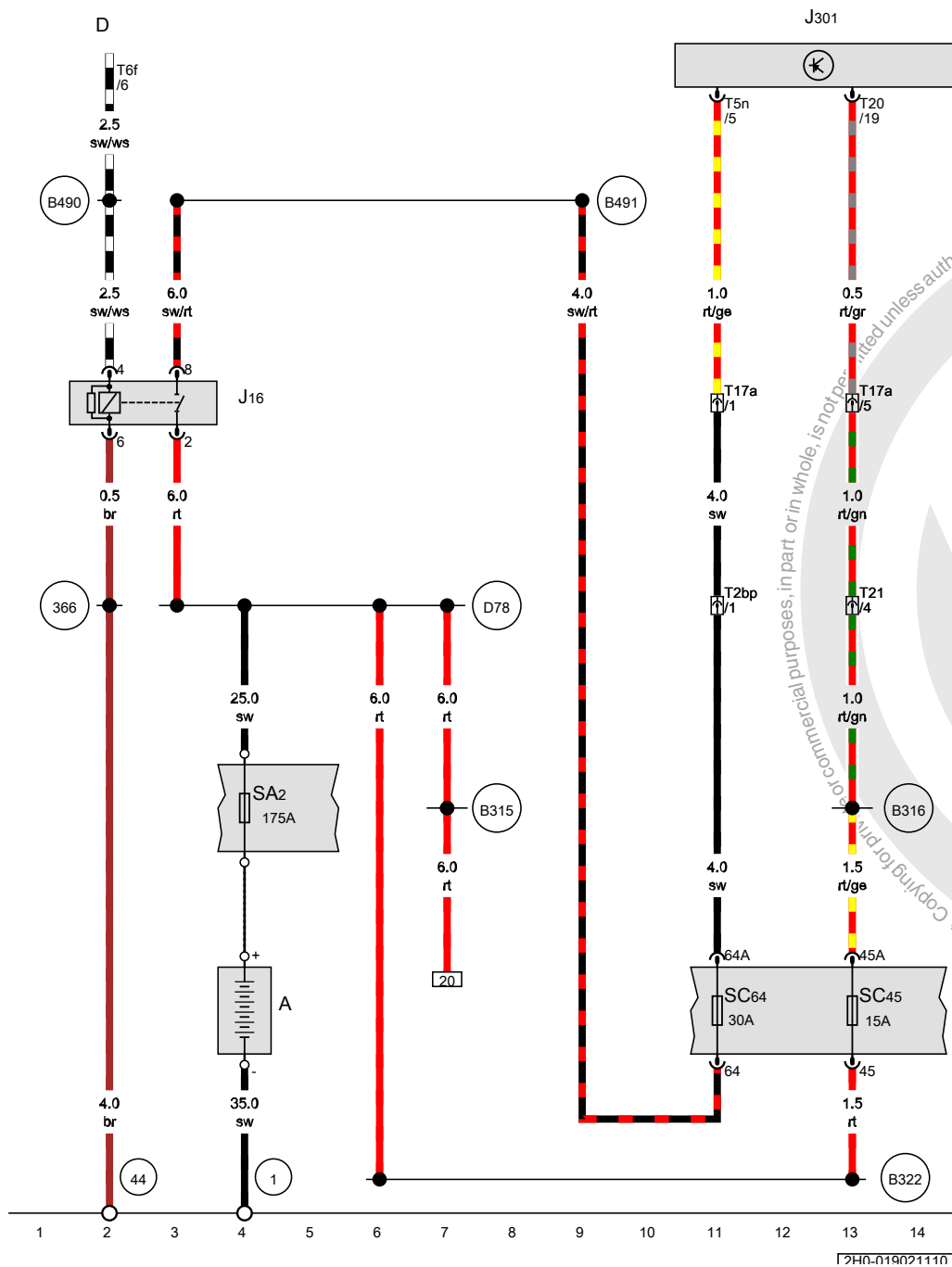
- 368 Earth connection 3, in main wiring harness
- 655 Earth point, on left headlight
- A7 Positive connection (58 D1), in dash panel wiring harness
- B472 Connection 8, in main wiring harness
- B564 Connection 31, in main wiring harness

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## Climatic, right-hand drive

From December 2009

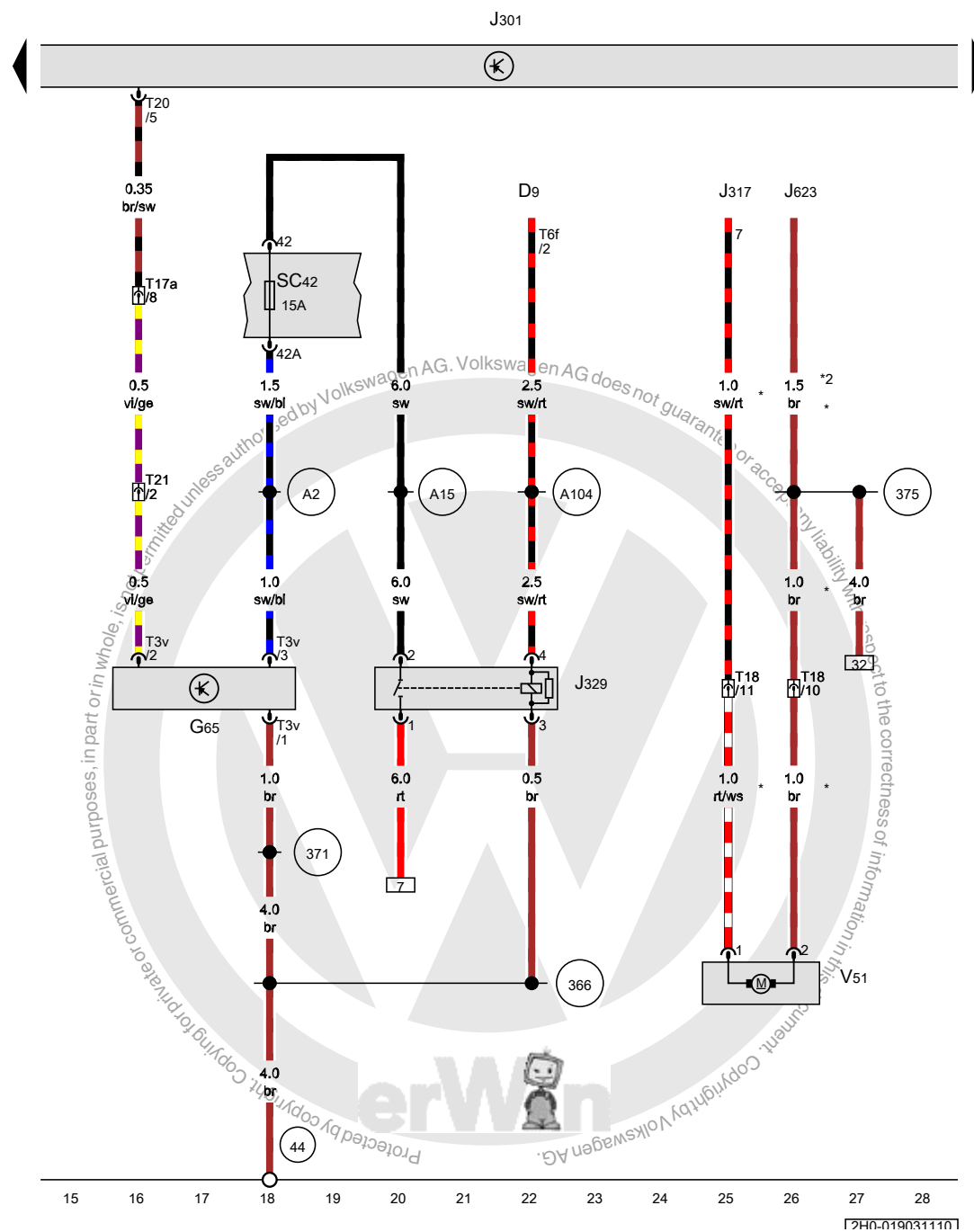




Battery, Current supply relay, Air conditioning system control unit, Fuse 2 in fuse holder A, Fuse 45 on fuse holder C, Fuse 64 on fuse holder C

- A Battery
- D Ignition/starter switch
- J16 Current supply relay
- J301 Air conditioning system control unit
- SA2 Fuse 2 in fuse holder A
- SC45 Fuse 45 on fuse holder C
- SC64 Fuse 64 on fuse holder C
- T2bp 2-pin connector
- T5n 5-pin connector
- T6f 6-pin connector
- T17a 17-pin connector, behind glove compartment
- T20 20-pin connector
- T21 21-pin connector, on relay carrier
- 1 Earth strap, battery - body
- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- B315 Positive connection 1 (30a) in main wiring harness
- B316 Positive connection 2 (30a) in main wiring harness
- B322 Positive connection 8 (30a) in main wiring harness
- B490 Connection 26, in main wiring harness
- B491 Positive connection (75), in interior wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness

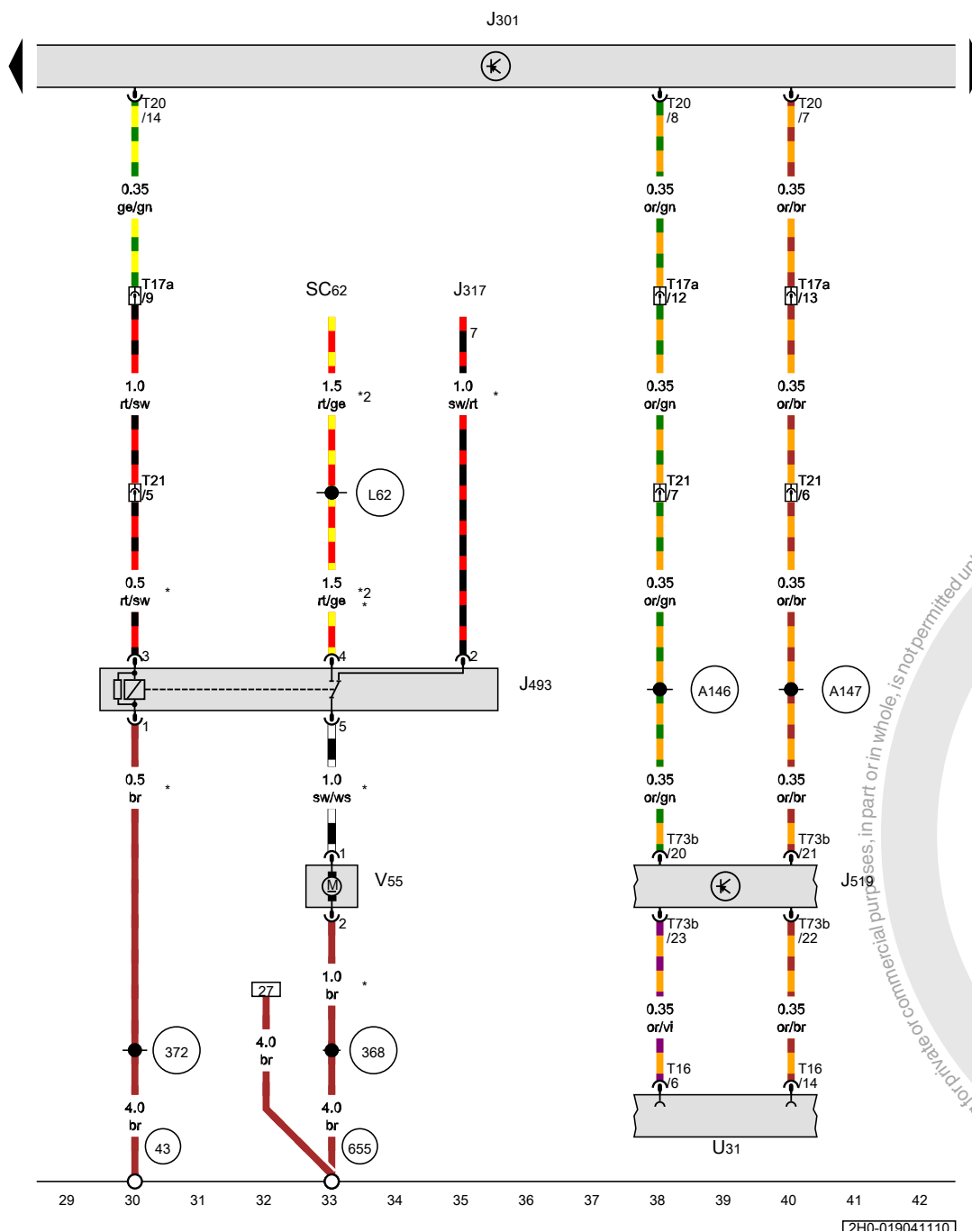




Electronic ignition lock, High-pressure sender, Air conditioning system control unit, Terminal 15 voltage supply relay, Fuse 42 on fuse holder C, Continued coolant circulation pump

- D9 Electronic ignition lock
- G65 High-pressure sender
- J301 Air conditioning system control unit
- J317 Terminal 30 voltage supply relay
- J329 Terminal 15 voltage supply relay
- J623 Engine control unit
- SC42 Fuse 42 on fuse holder C
- T3v 3-pin connector
- T6f 6-pin connector
- T17a 17-pin connector, behind glove compartment
- T18 18-pin connector, near engine control unit
- T20 20-pin connector
- T21 21-pin connector, on relay carrier
- V51 Continued coolant circulation pump
- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- 371 Earth connection 6, in main wiring harness
- 375 Earth connection 10, in main wiring harness
- A2 Positive connection (15), in dash panel wiring harness
- A15 Positive connection (15), in instrument wiring harness
- A104 Positive connection 2 (15), in dash panel wiring harness
- \* Only models with petrol engine
- \*2 see applicable current flow diagram for engine

ws = white  
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 br = brown  
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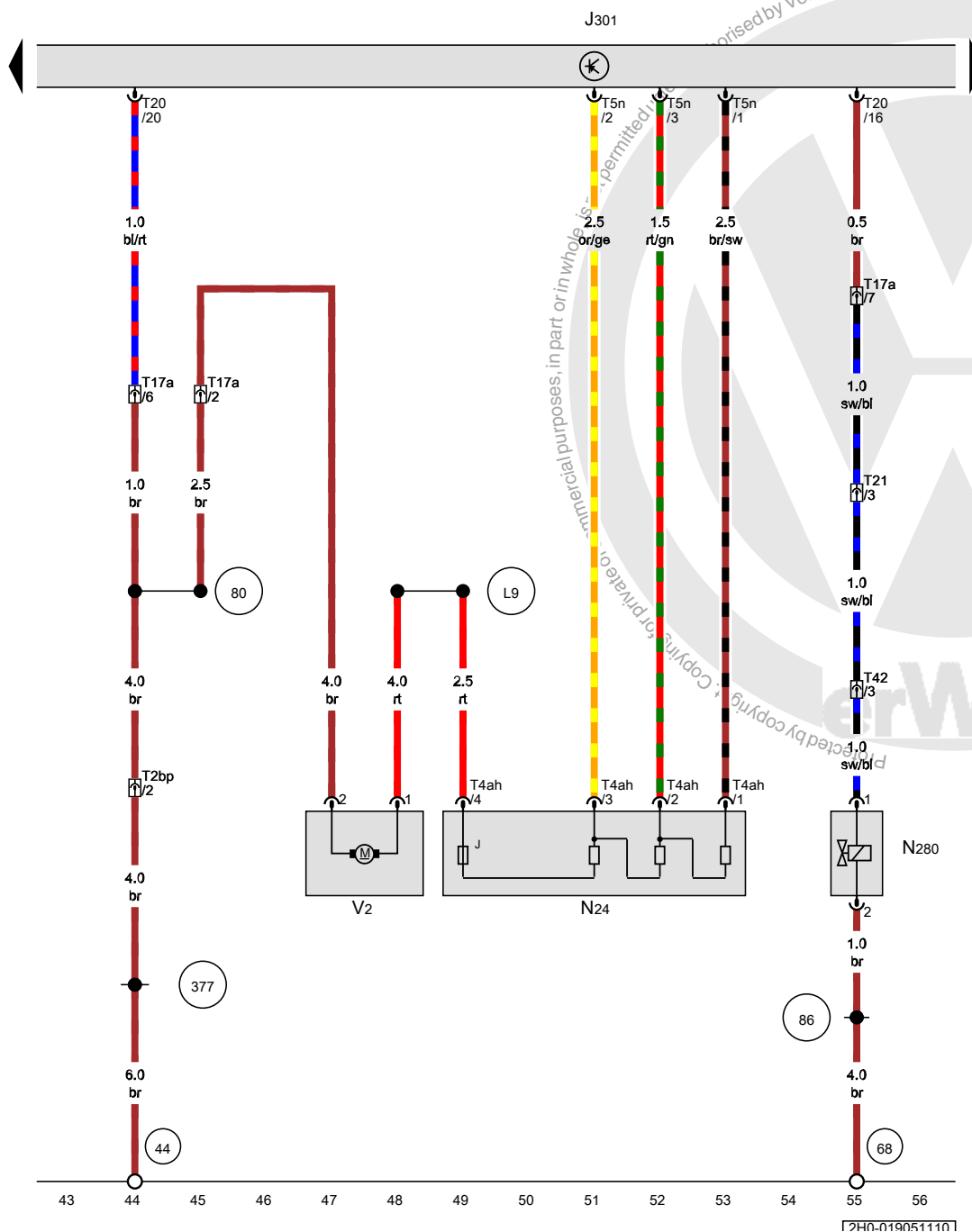


**Air conditioning system control unit, Auxiliary coolant heater relay, Diagnostic connection, Circulation pump**

- J301 Air conditioning system control unit
- J317 Terminal 30 voltage supply relay
- J493 Auxiliary coolant heater relay
- J519 Onboard supply control unit
- SC62 Fuse 62 on fuse holder C
- T16 16-pin connector
- T17a 17-pin connector, behind glove compartment
- T20 20-pin connector
- T21 21-pin connector, on relay carrier
- T73b 73-pin connector
- U31 Diagnostic connection, near driver side A-pillar
- V55 Circulation pump

- 43 Earth point, lower part of right A-pillar
- 368 Earth connection 3, in main wiring harness
- 372 Earth connection 7, in main wiring harness
- 655 Earth point, on left headlight
- A146 Connection (convenience CAN bus, high), in dash panel wiring harness
- A147 Connection (convenience CAN bus, low), in dash panel wiring harness
- L62 Positive connection (30a), in auxiliary heater wiring harness
- \* Only models with diesel engines
- \*2 Only models with auxiliary coolant heater

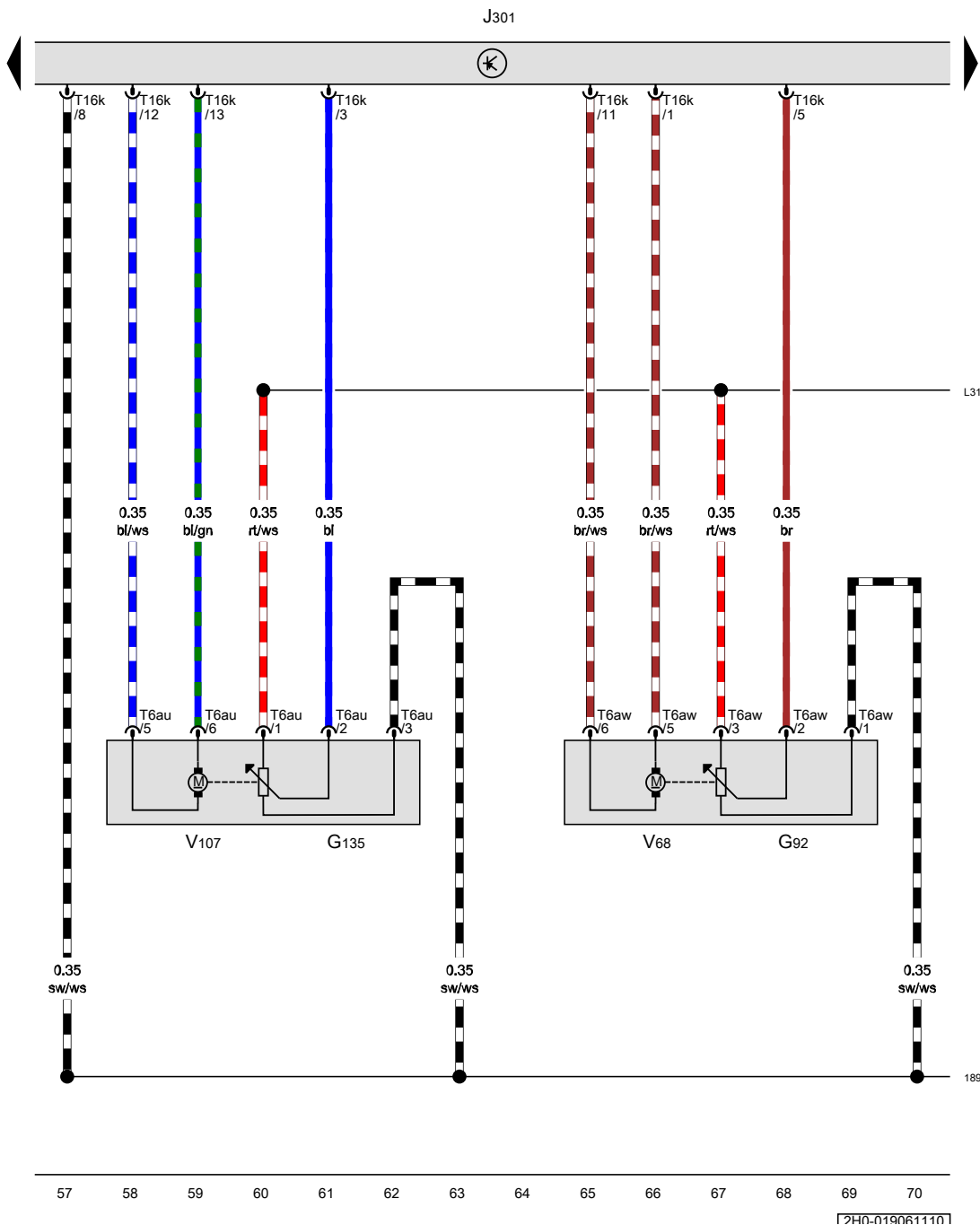
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**Air conditioning system control unit, Fresh air blower series resistor with overheating fuse, Air conditioner compressor regulating valve, Fresh air blower**

- J301 Air conditioning system control unit
- N24 Fresh air blower series resistor with overheating fuse
- N280 Air conditioner compressor regulating valve
- T2bp 2-pin connector
- T4ah 4-pin connector
- T5n 5-pin connector
- T17a 17-pin connector
- T20 20-pin connector
- T21 21-pin connector, on relay carrier
- T42 42-pin connector, near handbrake lever
- V2 Fresh air blower
- 44 Earth point, lower part of left A-pillar
- 68 Earth point, on left of rear cross member
- 80 Earth connection 1, in dash panel wiring harness
- 86 Earth connection 1, in rear wiring harness
- 377 Earth connection 12, in main wiring harness
- L9 Connection 1, in air conditioning system wiring harness

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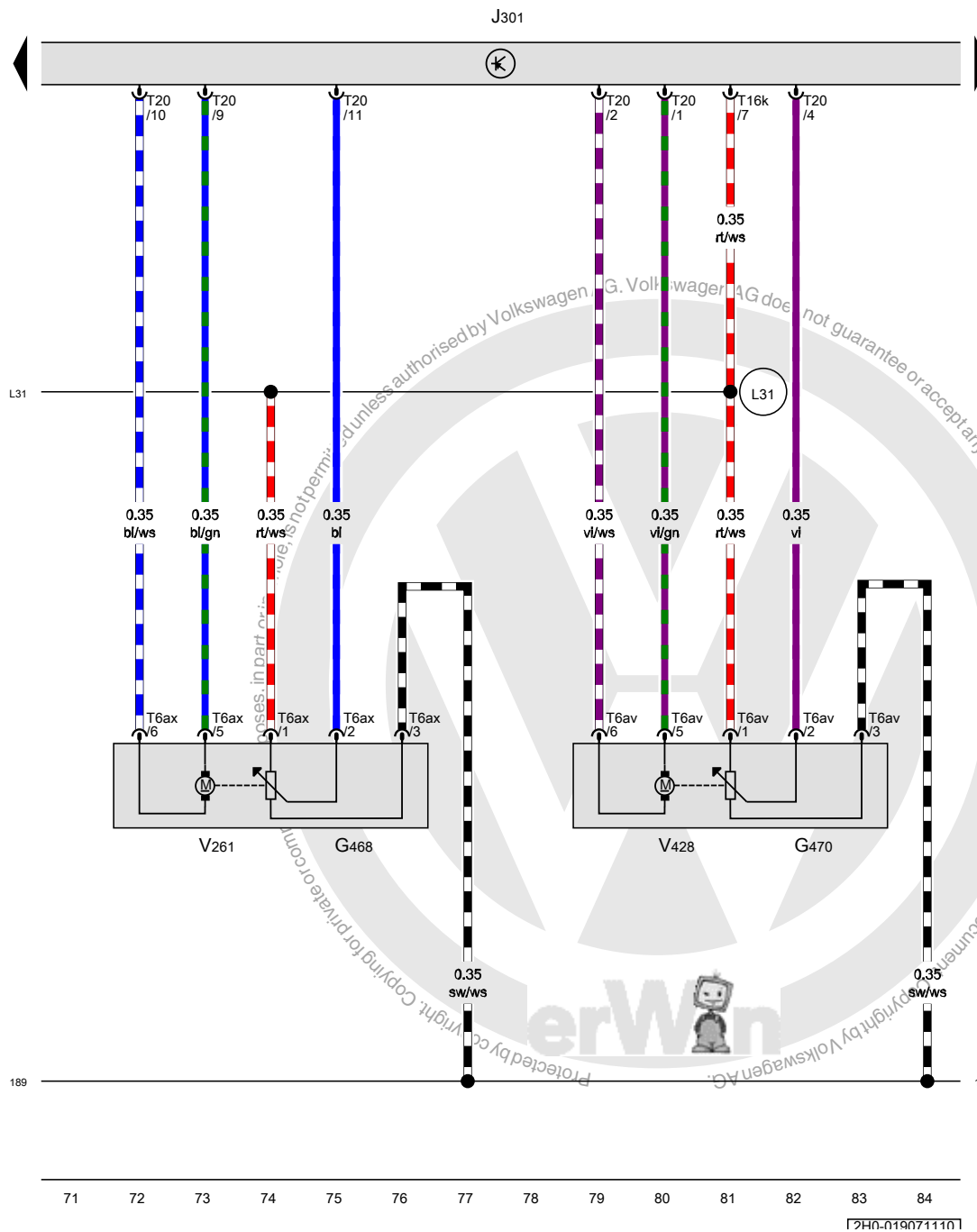
Potentiometer for temperature flap control motor, Potentiometer for defroster flap control motor, Air conditioning system control unit, Temperature flap control motor, Defroster flap control motor

- G92 Potentiometer for temperature flap control motor
- G135 Potentiometer for defroster flap control motor
- J301 Air conditioning system control unit
- T6au 6-pin connector
- T6aw 6-pin connector
- T16k 16-pin connector
- V68 Temperature flap control motor
- V107 Defroster flap control motor

189 Earth connection 1, in heater wiring harness

L31 Connection (5V), in air conditioning system wiring harness

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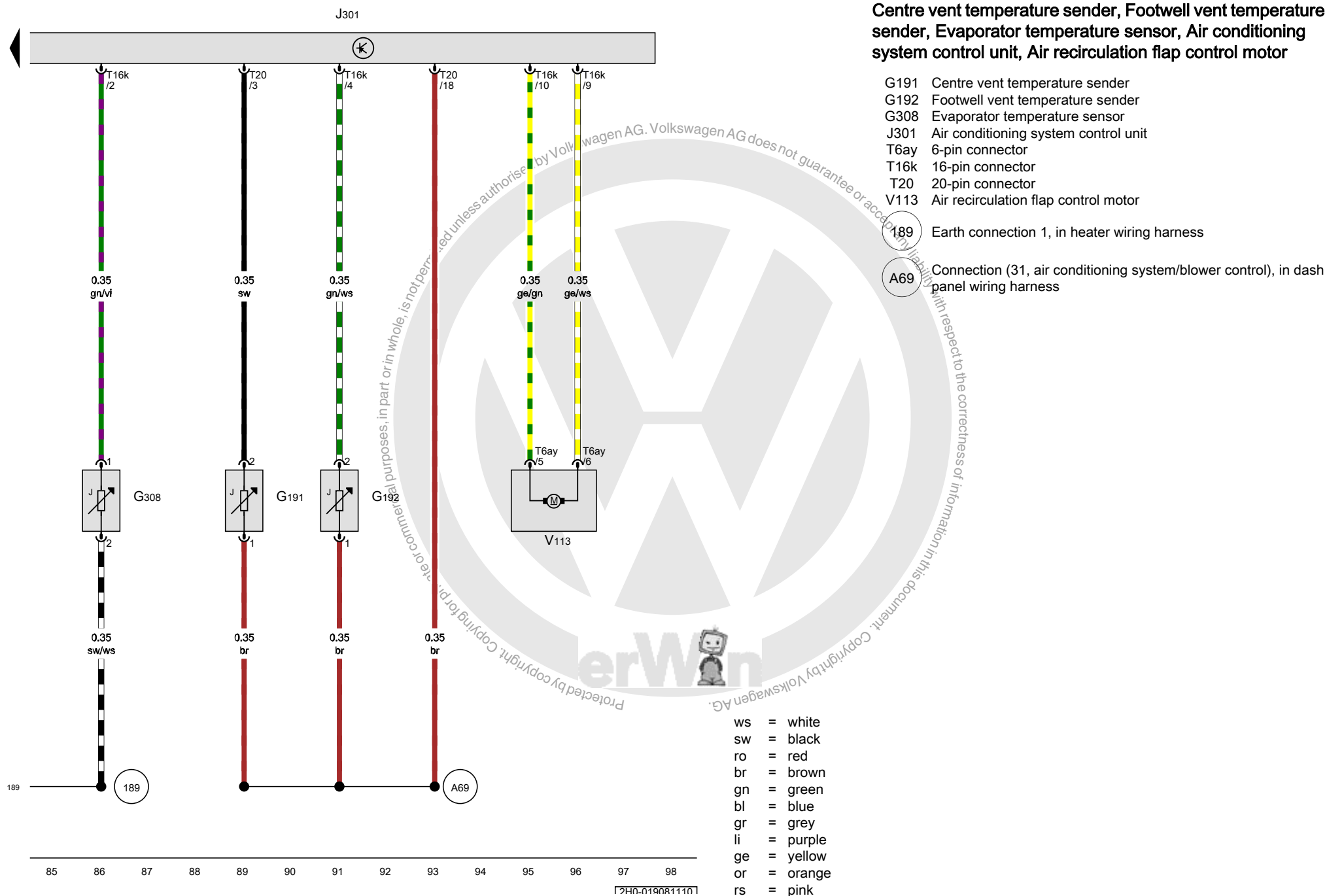


Potentiometer for footwell vent control motor, Potentiometer for front air distribution control motor, Air conditioning system control unit, Footwell flap control motor, Air distribution flap control motor

- G468 Potentiometer for footwell vent control motor
- G470 Potentiometer for front air distribution control motor
- J301 Air conditioning system control unit
- T6av 6-pin connector
- T6ax 6-pin connector
- T16k 16-pin connector
- T20 20-pin connector
- V261 Footwell flap control motor
- V428 Air distribution flap control motor

- 189 Earth connection 1, in heater wiring harness
- L31 Connection (5V), in air conditioning system wiring harness

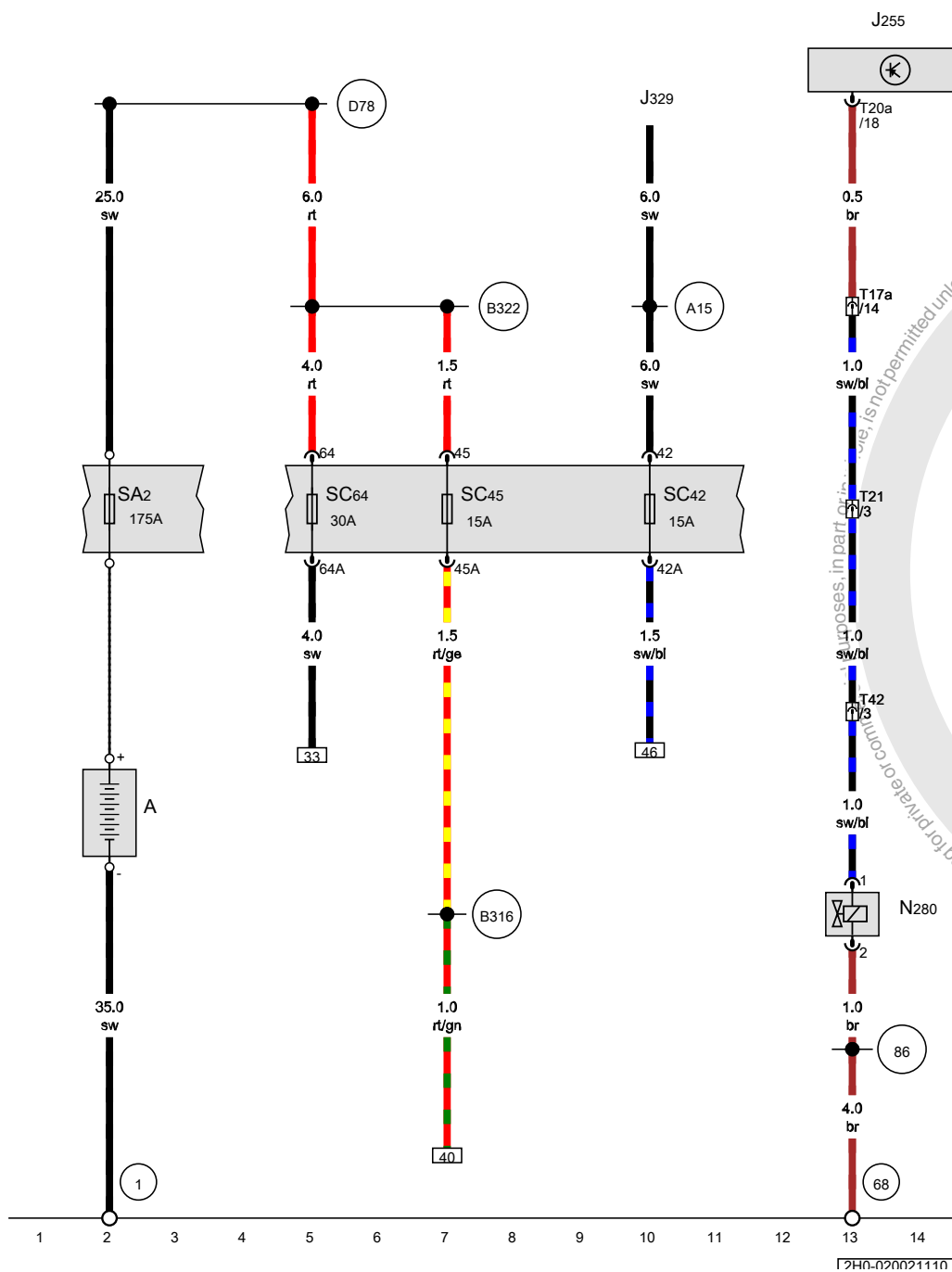
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## **Climatronic, right-hand drive**

From December 2009

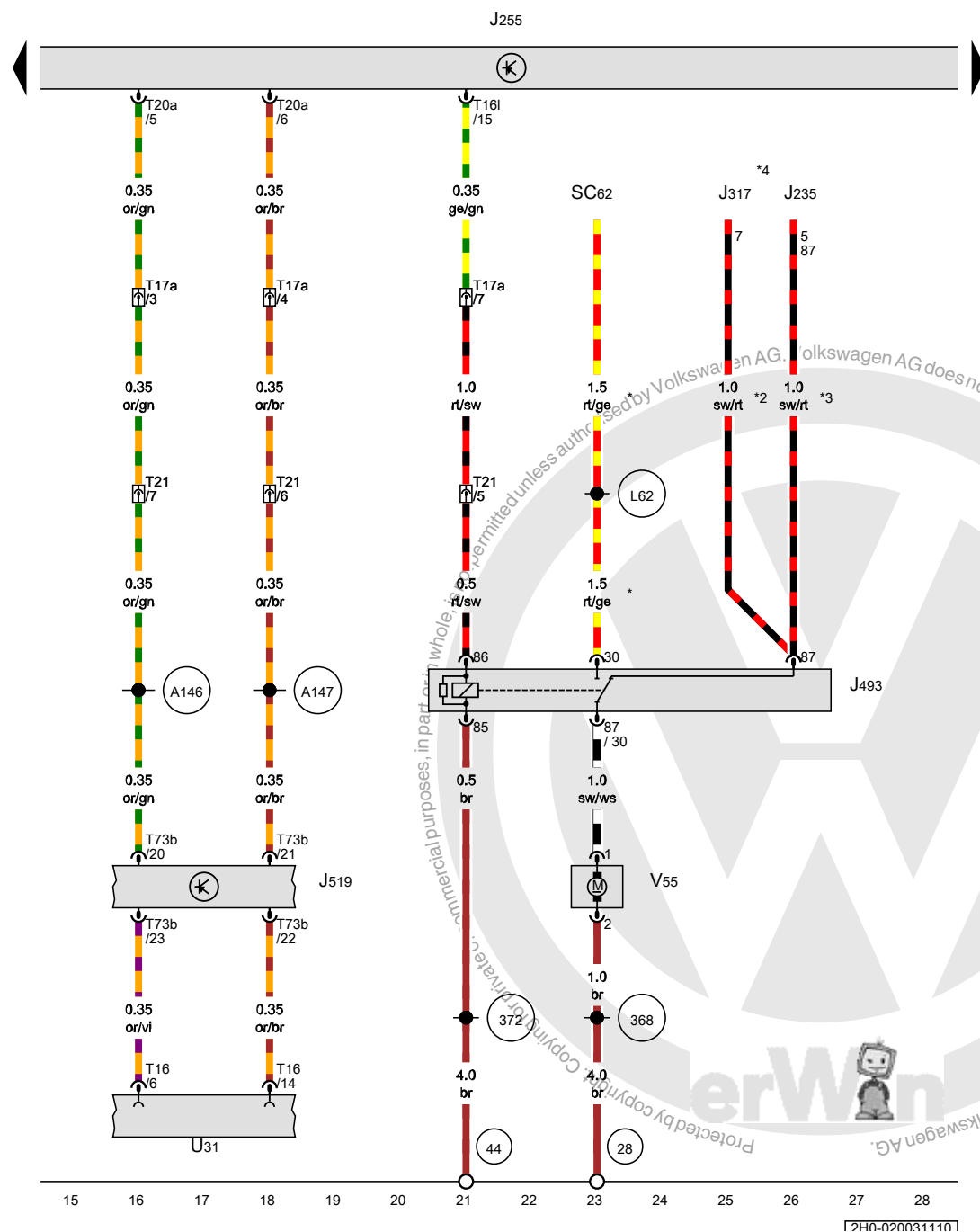




Battery, Climatronic control unit, Air conditioner compressor regulating valve, Fuse 2 in fuse holder A, Fuse 42 on fuse holder C, Fuse 45 on fuse holder C, Fuse 64 on fuse holder C

- A Battery
- J255 Climatronic control unit
- J329 Terminal 15 voltage supply relay
- N280 Air conditioner compressor regulating valve
- SA2 Fuse 2 in fuse holder A
- SC42 Fuse 42 on fuse holder C
- SC45 Fuse 45 on fuse holder C
- SC64 Fuse 64 on fuse holder C
- T17a 17-pin connector, behind glove compartment
- T20a 20-pin connector
- T21 21-pin connector, on relay carrier
- T42 42-pin connector, near handbrake lever
- 1 Earth strap, battery - body
- 68 Earth point, on left of rear cross member
- 86 Earth connection 1, in rear wiring harness
- A15 Positive connection (15), in instrument wiring harness
- B316 Positive connection 2 (30a) in main wiring harness
- B322 Positive connection 8 (30a) in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness

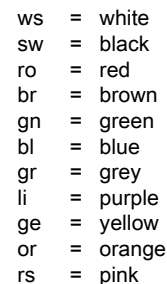




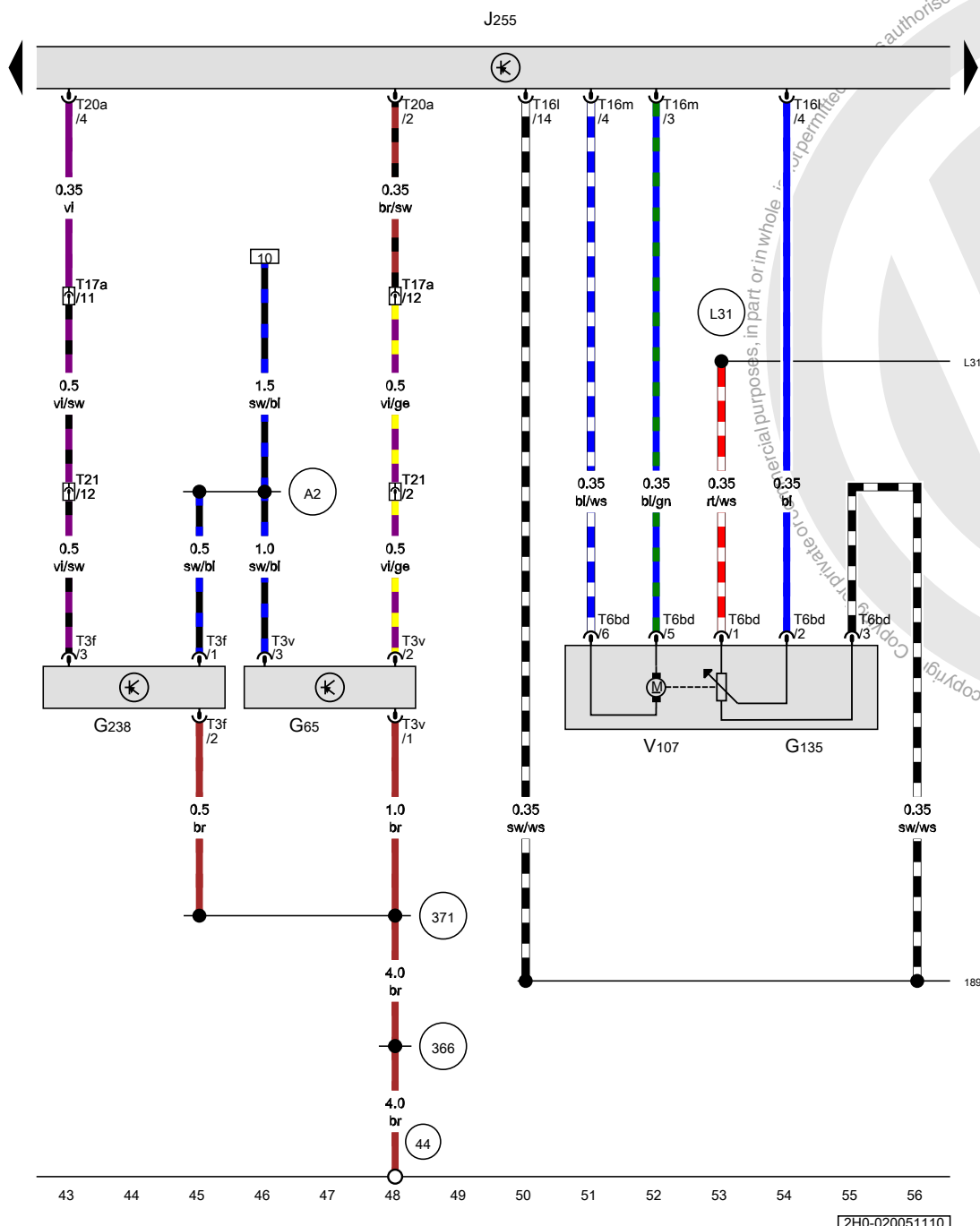
Climatronic control unit, Auxiliary coolant heater relay

- J235 Coolant pump relay
- J255 Climatronic control unit
- J317 Terminal 30 voltage supply relay
- J493 Auxiliary coolant heater relay
- J519 Onboard supply control unit
- SC62 Fuse 62 on fuse holder C
- T16 16-pin connector
- T16l 16-pin connector
- T17a 17-pin connector, behind glove compartment
- T20a 20-pin connector
- T21 21-pin connector, on relay carrier
- T73b 73-pin connector
- U31 Diagnostic connection, near driver side A-pillar
- V55 Circulation pump
- 28 Earth point, on bulkhead
- 44 Earth point, lower part of left A-pillar
- 368 Earth connection 3, in main wiring harness
- 372 Earth connection 7, in main wiring harness
- A146 Connection (convenience CAN bus, high), in dash panel wiring harness
- A147 Connection (convenience CAN bus, low), in dash panel wiring harness
- L62 Positive connection (30a), in auxiliary heater wiring harness
- \* Only models with auxiliary coolant heater
- \*2 Only models with diesel engines
- \*3 Only models with petrol engine
- \*4 see applicable current flow diagram for auxiliary coolant heater

ws = white  
 sw = black  
 ro = red  
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- 44 Earth point, lower part of left A-pillar
- 80 Earth connection 1, in dash panel wiring harness
- 377 Earth connection 12, in main wiring harness
- L21 Connection 1 (30), in Climatronic operating unit wiring harness

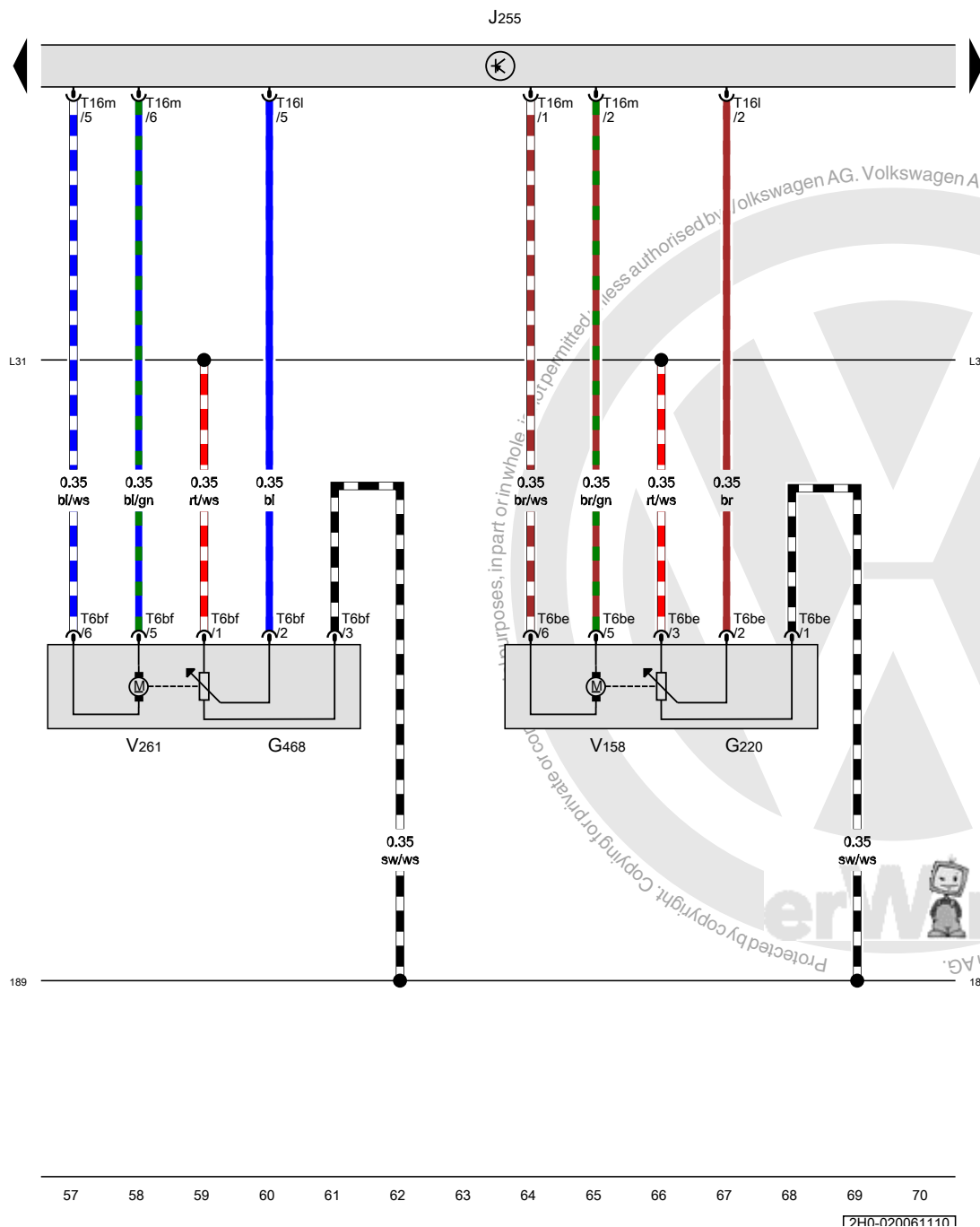


**High-pressure sender, Potentiometer for defroster flap control motor, Air quality sensor, Climatronic control unit, Defroster flap control motor**

- G65 High-pressure sender
- G135 Potentiometer for defroster flap control motor
- G238 Air quality sensor, near window wiper motor
- J255 Climatronic control unit
- T3f 3-pin connector
- T3v 3-pin connector
- T6bd 6-pin connector
- T16l 16-pin connector
- T16m 16-pin connector
- T17a 17-pin connector, behind glove compartment
- T20a 20-pin connector
- T21 21-pin connector, on relay carrier
- V107 Defroster flap control motor

- 44 Earth point, lower part of left A-pillar
- 189 Earth connection 1, in heater wiring harness
- 366 Earth connection 1, in main wiring harness
- 371 Earth connection 6, in main wiring harness
- A2 Positive connection (15), in dash panel wiring harness
- L31 Connection (5V), in air conditioning system wiring harness

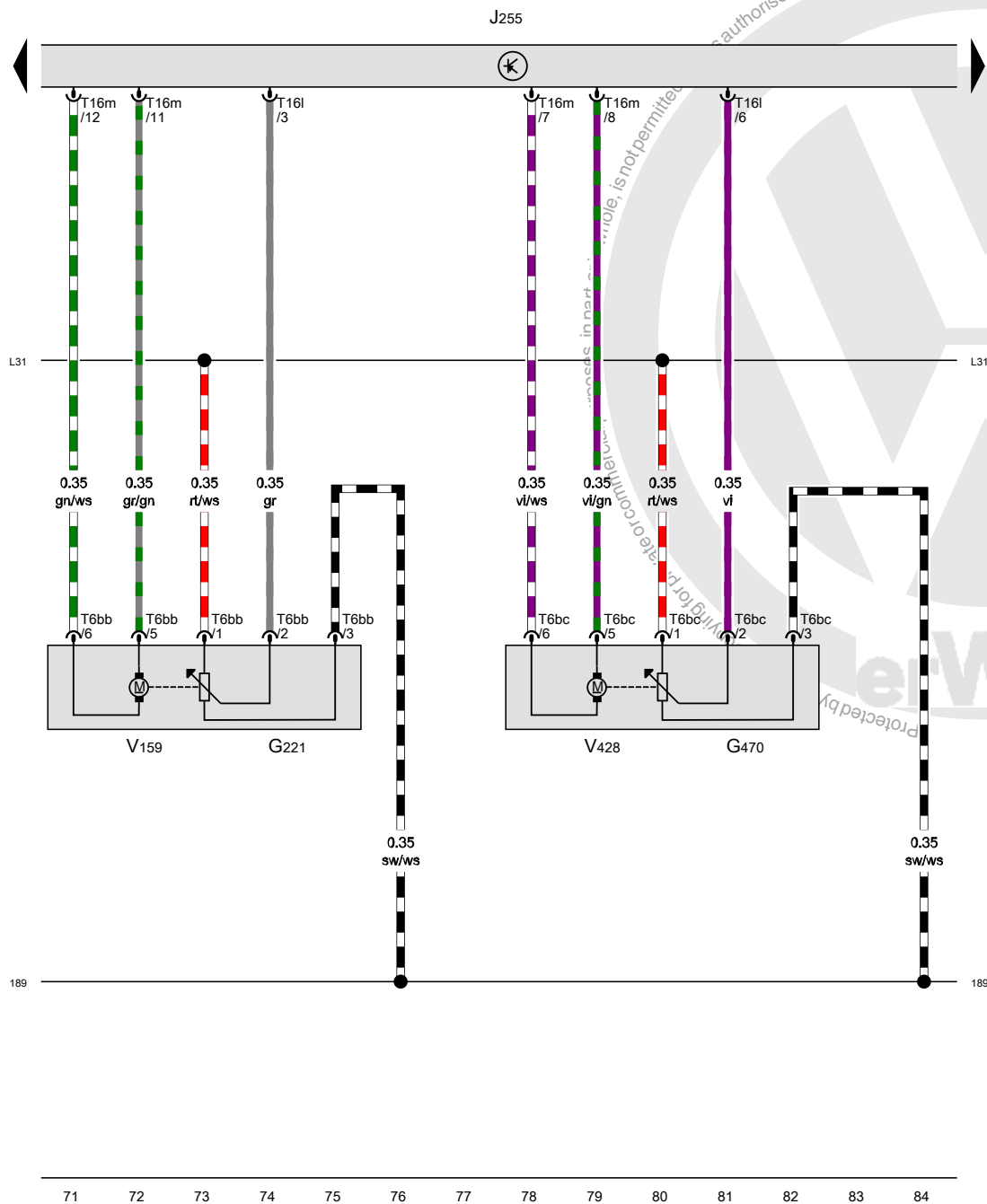
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Potentiometer for left temperature flap control motor, Potentiometer for footwell vent control motor, Climatronic control unit, Left temperature flap control motor, Footwell flap control motor

- G220 Potentiometer for left temperature flap control motor
- G468 Potentiometer for footwell vent control motor
- J255 Climatronic control unit
- T6be 6-pin connector
- T6bf 6-pin connector
- T16l 16-pin connector
- T16m 16-pin connector
- V158 Left temperature flap control motor
- V261 Footwell flap control motor

- 189 Earth connection 1, in heater wiring harness
- L31 Connection (5V), in air conditioning system wiring harness

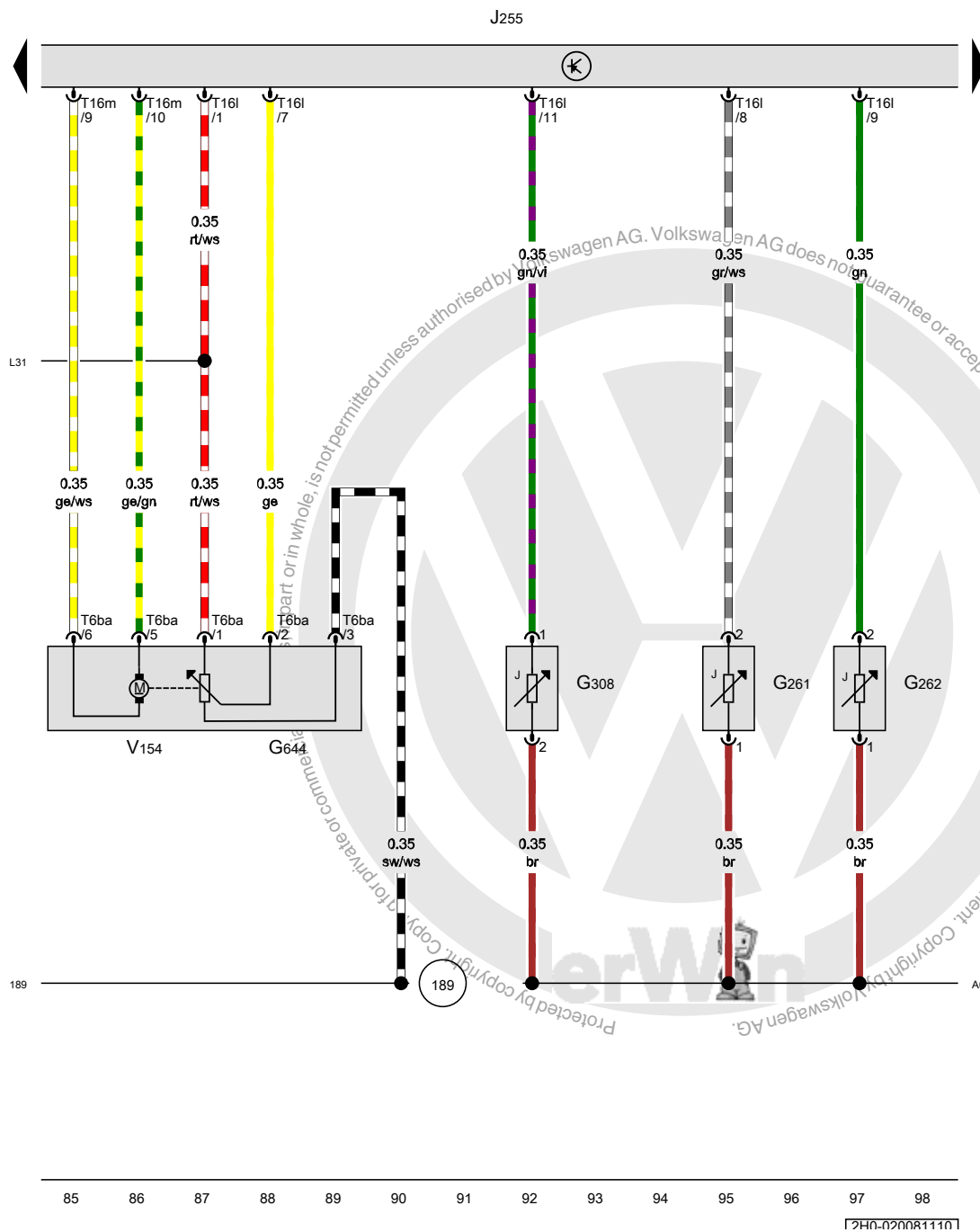


Potentiometer for right temperature flap control motor,  
Potentiometer for front air distribution control motor,  
Climatronic control unit, Right temperature flap control  
motor, Air distribution flap control motor

- G221 Potentiometer for right temperature flap control motor
- G470 Potentiometer for front air distribution control motor
- J255 Climatronic control unit
- T6bb 6-pin connector
- T6bc 6-pin connector
- T16l 16-pin connector
- T16m 16-pin connector
- V159 Right temperature flap control motor
- V428 Air distribution flap control motor

- 189 Earth connection 1, in heater wiring harness
- L31 Connection (5V), in air conditioning system wiring harness

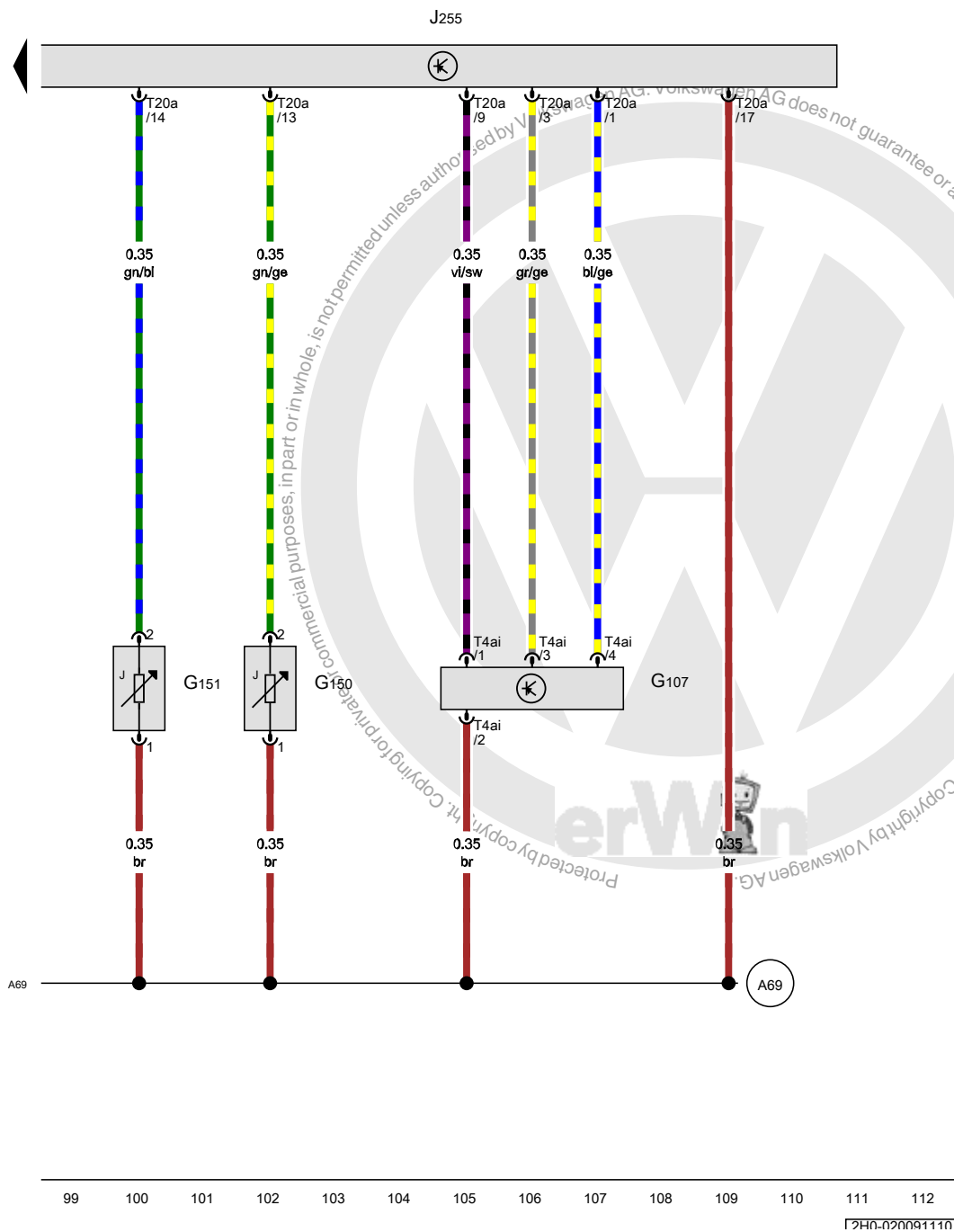
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Left footwell vent temperature sender, Right footwell vent temperature sender, Evaporator temperature sensor, Potentiometer for fresh air/recirculated air, air flow flap control motor, Climatronic control unit, Fresh air and air recirculation flap control motor

- G261 Left footwell vent temperature sender
- G262 Right footwell vent temperature sender
- G308 Evaporator temperature sensor
- G644 Potentiometer for fresh air/recirculated air, air flow flap control motor
- J255 Climatronic control unit
- T6ba 6-pin connector
- T16l 16-pin connector
- T16m 16-pin connector
- V154 Fresh air and air recirculation flap control motor

- 189 Earth connection 1, in heater wiring harness
- A69 Connection (31, air conditioning system/blower control), in dash panel wiring harness
- L31 Connection (5V), in air conditioning system wiring harness



Sunlight penetration photosensor, Left vent temperature sender, Right vent temperature sender, Climatronic control unit

- G107 Sunlight penetration photosensor, in centre of dash panel
- G150 Left vent temperature sender
- G151 Right vent temperature sender
- J255 Climatronic control unit
- T4ai 4-pin connector
- T20a 20-pin connector
- A69 Connection (31, air conditioning system/blower control), in dash panel wiring harness

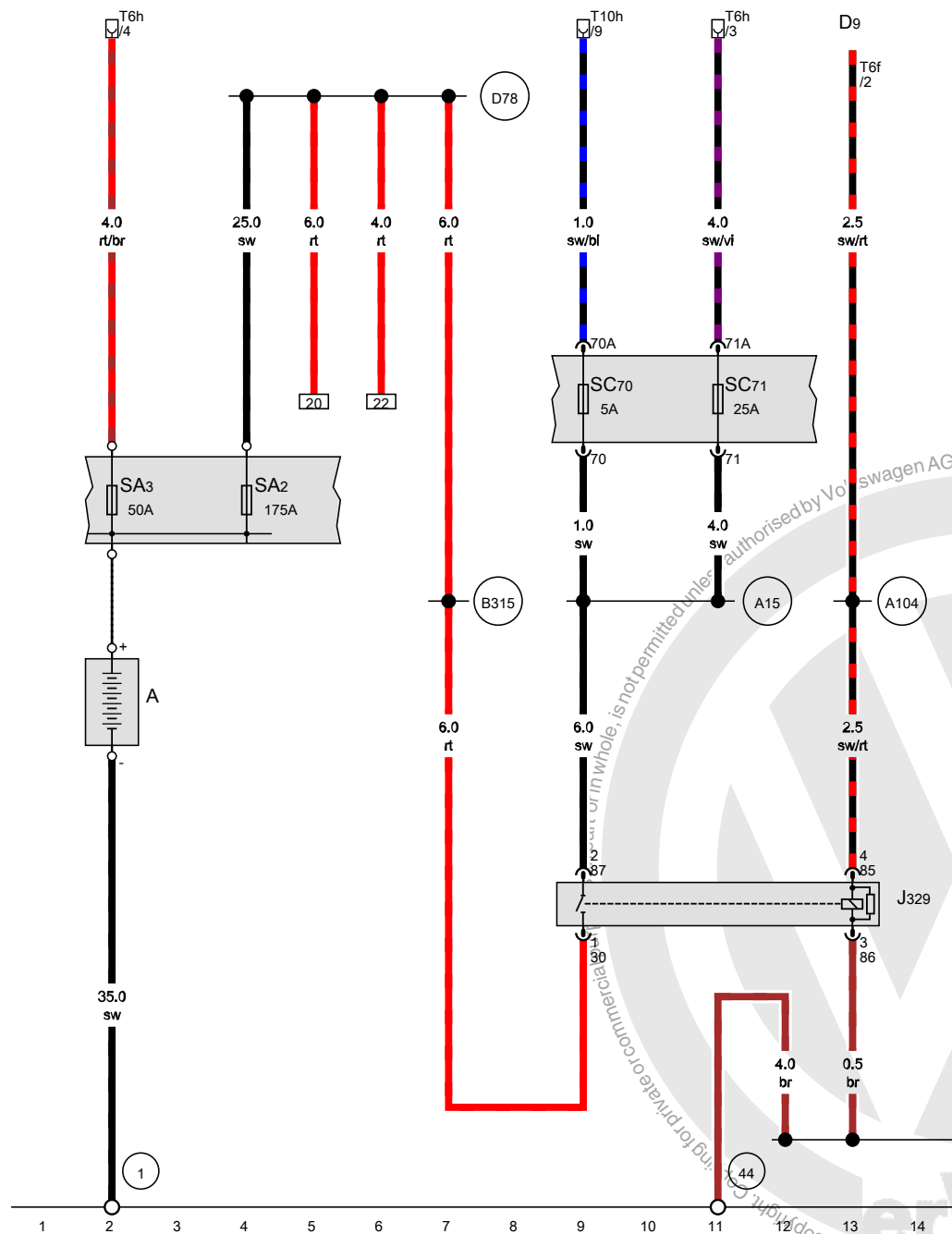
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## Interface for external use

From December 2009



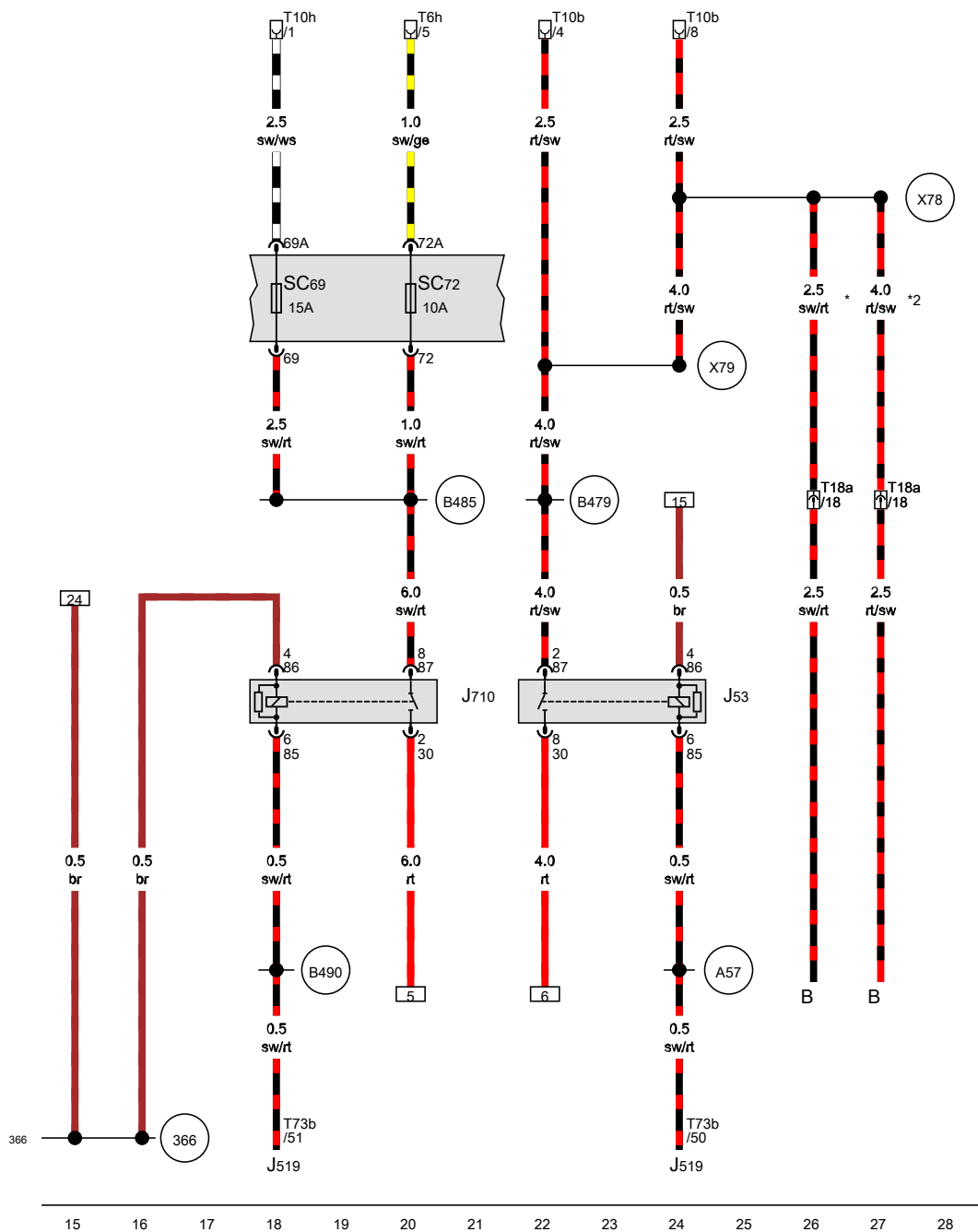




**Battery, Electronic ignition lock, Fuse 2 in fuse holder A, Fuse 3 in fuse holder A, Fuse 70 on fuse holder C, Fuse 71 on fuse holder C**

- |      |   |
|------|---|
| A    | Battery   |
| D9   | Electronic ignition lock  |
| J329 | Terminal 15 voltage supply relay, on relay carrier                |
| SA2  | Fuse 2 in fuse holder A   |
| SA3  | Fuse 3 in fuse holder A   |
| SC70 | Fuse 70 on fuse holder C  |
| SC71 | Fuse 71 on fuse holder C  |
| T6f  | 6-pin connector   |
| T6h  | 6-pin connector, in left footwell, near centre console            |
| T10h | 10-pin connector, in left footwell, near centre console           |
| 1    | Earth strap, battery - body                                       |
| 44   | Earth point, lower part of left A-pillar                          |
| 366  | Earth connection 1, in main wiring harness                        |
| A15  | Positive connection (15), in instrument wiring harness            |
| A104 | Positive connection 2 (15), in dash panel wiring harness          |
| B315 | Positive connection 1 (30a) in main wiring harness                |
| D78  | Positive connection 1 (30a), in engine compartment wiring harness |

ws	=	white
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**Starter, Starter motor relay, Onboard supply control unit, Voltage supply relay 2, Fuse 69 on fuse holder C, Fuse 72 on fuse holder C**

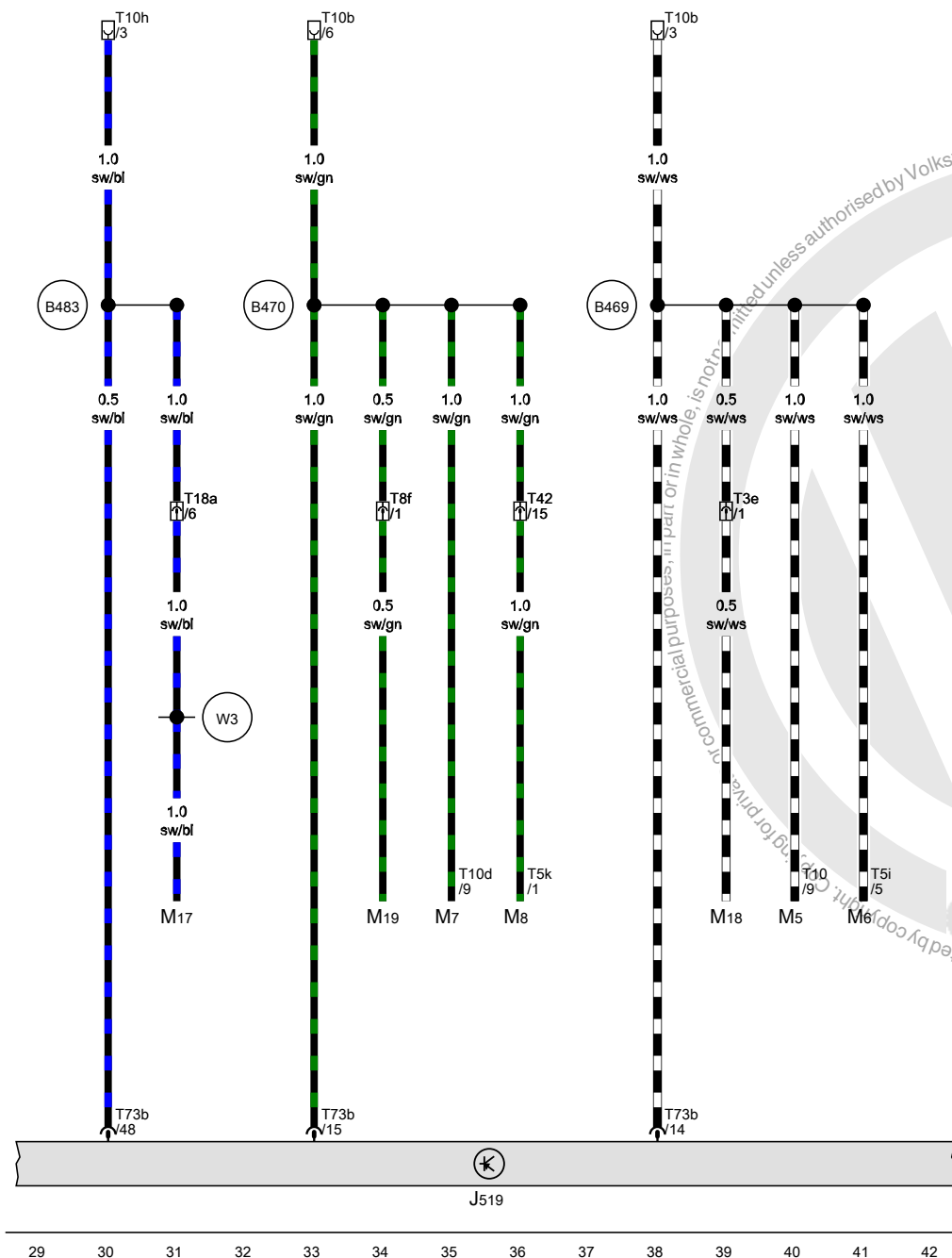
- B Starter
- J53 Starter motor relay, on relay carrier
- J519 Onboard supply control unit
- J710 Voltage supply relay 2, on relay carrier
- SC69 Fuse 69 on fuse holder C
- SC72 Fuse 72 on fuse holder C
- T6h 6-pin connector, in left footwell, near centre console
- T10b 10-pin connector, in left footwell, near centre console
- T10h 10-pin connector, in left footwell, near centre console
- T18a 18-pin connector, near engine control unit
- T73b 73-pin connector
- 366 Earth connection 1, in main wiring harness
- A57 Positive connection 3 (30), in dash panel wiring harness
- B479 Connection 15, in main wiring harness
- B485 Connection 21, in main wiring harness
- B490 Connection 26, in main wiring harness
- X78 Connection 1, in optional equipment wiring harness
- X79 Connection 2, in optional equipment wiring harness
- \* Only models with diesel engines
- \*2 Only models with petrol engine

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Onboard supply control unit, Front left turn signal bulb, Rear left turn signal bulb, Front right turn signal bulb, Rear right turn signal bulb, Right reversing light bulb, Left turn signal repeater bulb, Right turn signal repeater bulb

- J519 Onboard supply control unit
- M5 Front left turn signal bulb
- M6 Rear left turn signal bulb
- M7 Front right turn signal bulb
- M8 Rear right turn signal bulb
- M17 Right reversing light bulb
- M18 Left turn signal repeater bulb
- M19 Right turn signal repeater bulb
- T3e 3-pin connector, in rear right of engine compartment
- T5i 5-pin connector
- T5k 5-pin connector
- T8f 8-pin connector, in rear left of engine compartment
- T10 10-pin connector
- T10b 10-pin connector, in left footwell, near centre console
- T10d 10-pin connector
- T10h 10-pin connector, in left footwell, near centre console
- T18a 18-pin connector, near engine control unit
- T42 42-pin connector, near handbrake lever
- T73b 73-pin connector

- B469 Connection 5, in main wiring harness
- B470 Connection 6, in main wiring harness
- B483 Connection 19, in main wiring harness
- W3 Connection in rear wiring harness



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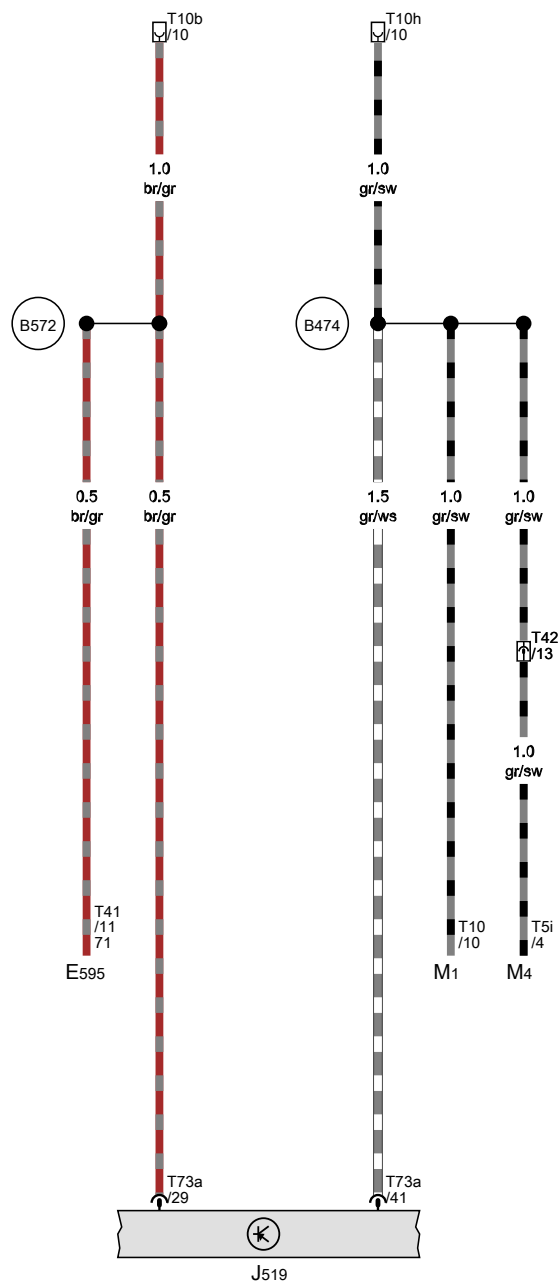
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Steering column combination switch, Left side light bulb,  
Left tail light bulb

- E595 Steering column combination switch
- J519 Onboard supply control unit
- M1 Left side light bulb
- M4 Left tail light bulb
- T5i 5-pin connector
- T10 10-pin connector
- T10b 10-pin connector, in left footwell, near centre console
- T10h 10-pin connector, in left footwell, near centre console
- T41 41-pin connector
- T42 42-pin connector, near handbrake lever
- T73a 73-pin connector

B474 Connection 10, in main wiring harness

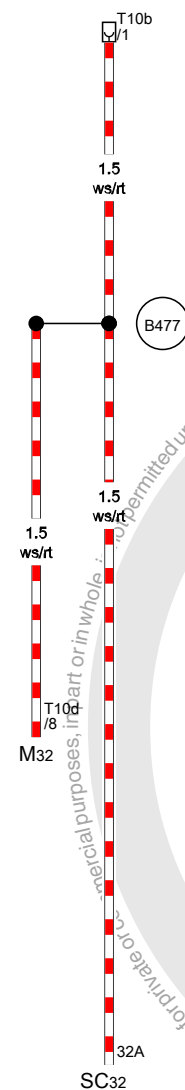
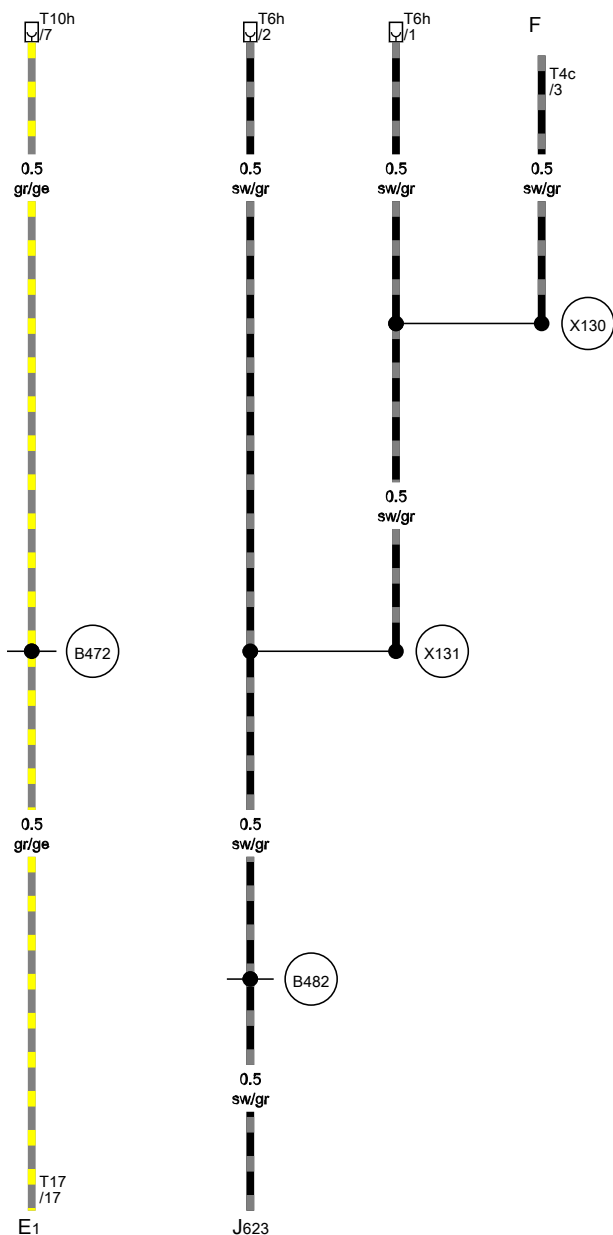
B572 Connection 39, in main wiring harness



- ws = white
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- bl = blue
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- or = orange
- rs = pink

43 44 45 46 47 48 49 50 51 52 53 54 55 56

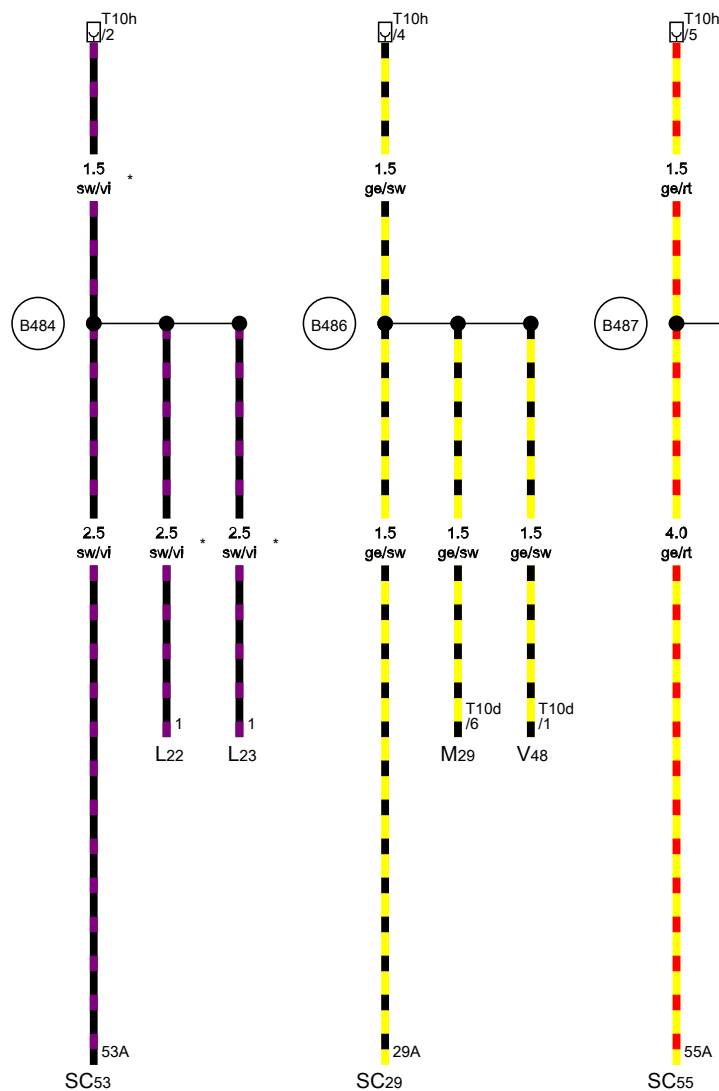
[240-0210501111]



Light switch, Brake light switch, Engine control unit, Right headlight main beam bulb, Fuse 32 on fuse holder C

- E1 Light switch
- F Brake light switch
- J623 Engine control unit
- M32 Right headlight main beam bulb
- SC32 Fuse 32 on fuse holder C
- T4c 4-pin connector
- T6h 6-pin connector, in left footwell, near centre console
- T10b 10-pin connector, in left footwell, near centre console
- T10d 10-pin connector
- T10h 10-pin connector, in left footwell, near centre console
- T17 17-pin connector
- B472 Connection 8, in main wiring harness
- B477 Connection 13, in main wiring harness
- B482 Connection 18, in main wiring harness
- X130 Connection 3, in optional equipment wiring harness
- X131 Connection 4, in optional equipment wiring harness
- \* see applicable current flow diagram for engine

ws = white  
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Headlight range control regulator, Left fog light bulb, Right fog light bulb, Left headlight dipped beam bulb, Right headlight dipped beam bulb, Fuse 29 on fuse holder C, Fuse 53 on fuse holder C, Fuse 55 on fuse holder C, Left headlight range control motor, Right headlight range control motor

- E102 Headlight range control regulator
- L22 Left fog light bulb
- L23 Right fog light bulb
- M29 Left headlight dipped beam bulb
- M31 Right headlight dipped beam bulb
- SC29 Fuse 29 on fuse holder C
- SC53 Fuse 53 on fuse holder C
- SC55 Fuse 55 on fuse holder C
- T6c 6-pin connector
- T10 10-pin connector
- T10d 10-pin connector
- T10h 10-pin connector, in left footwell, near centre console
- V48 Left headlight range control motor
- V49 Right headlight range control motor

- B484 Connection 20, in main wiring harness
- B486 Connection 22, in main wiring harness
- B487 Connection 23, in main wiring harness

\* Only models with fog lights

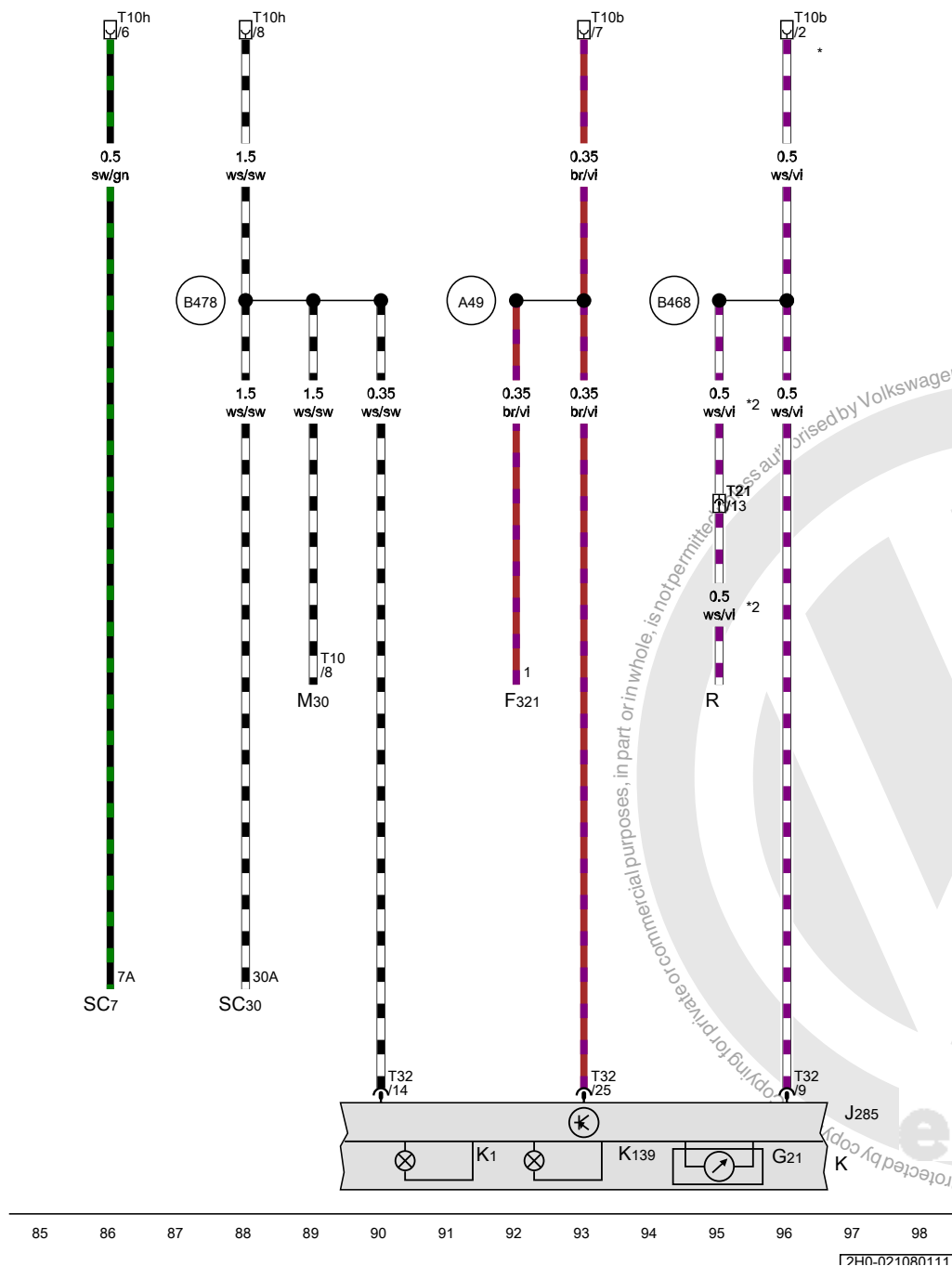
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Parking brake contact switch, Control unit in dash panel insert, Dash panel insert, Left headlight main beam bulb, Radio, Fuse 7 on fuse holder C, Fuse 30 on fuse holder C

- F321 Parking brake contact switch
- G21 Speedometer
- J285 Control unit in dash panel insert
- K Dash panel insert
- K1 Main beam warning lamp
- K139 Handbrake warning lamp
- M30 Left headlight main beam bulb
- R Radio
- SC7 Fuse 7 on fuse holder C
- SC30 Fuse 30 on fuse holder C
- T10 10-pin connector
- T10b 10-pin connector, in left footwell, near centre console
- T10h 10-pin connector, in left footwell, near centre console
- T21 21-pin connector, on relay carrier
- T32 32-pin connector

- A49 Connection 1, in dash panel wiring harness
- B468 Connection 4, in main wiring harness
- B478 Connection 14, in main wiring harness
- \* Speed signal
- \*2 Only models with radio

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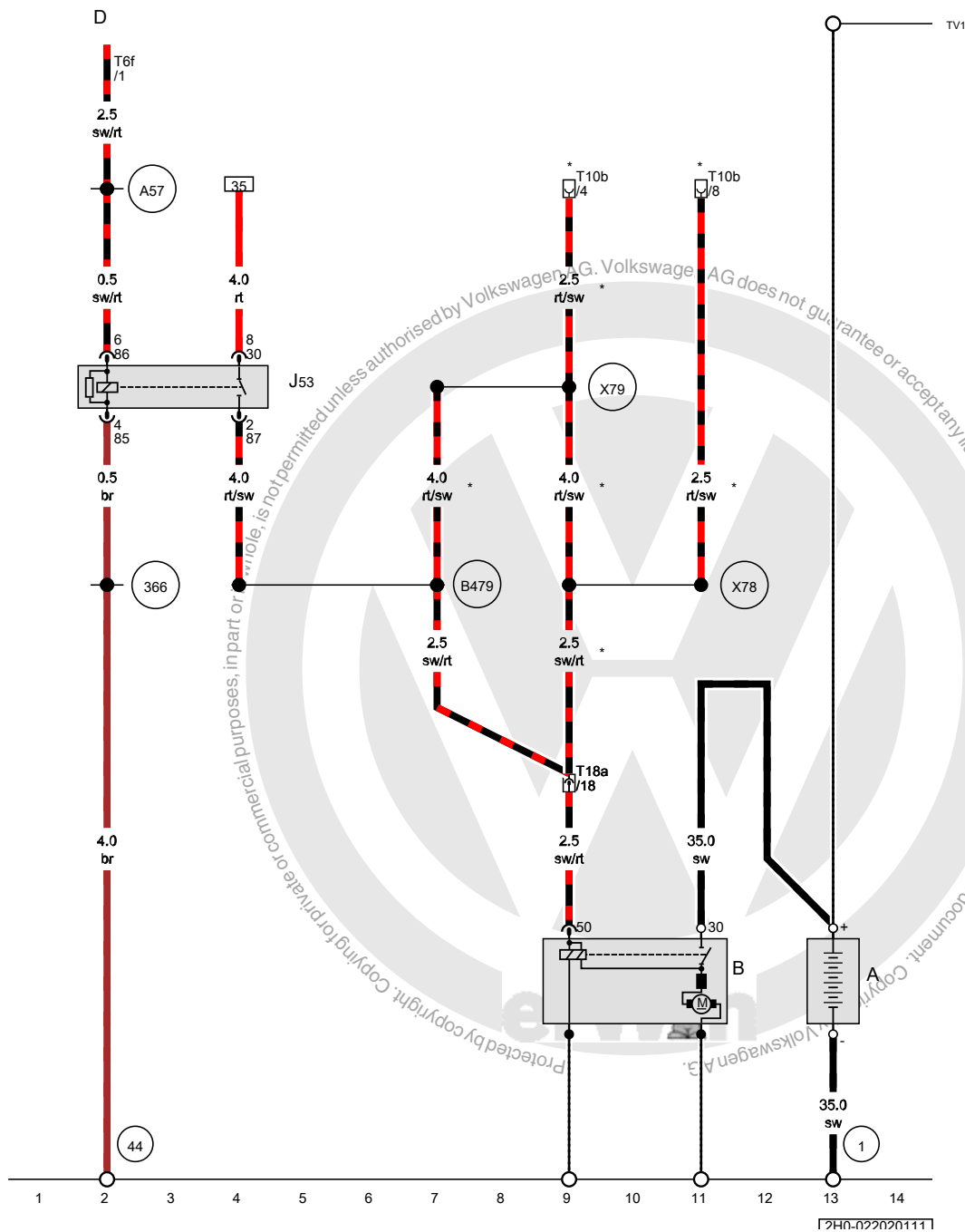


## 2.0l diesel engine , CDBA

From December 2009







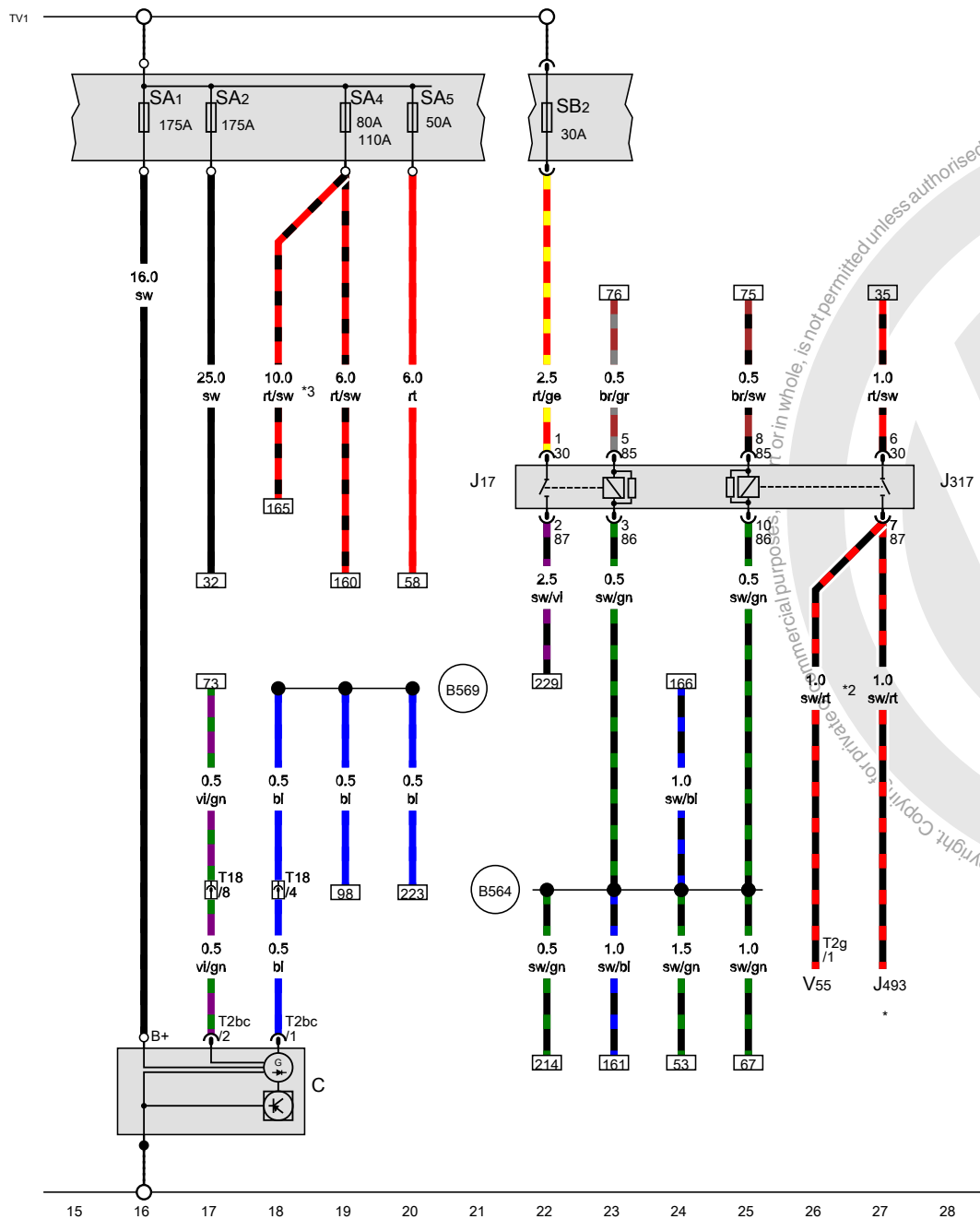
**Battery, Starter, Starter motor relay**

- A Battery
- B Starter
- D Ignition/starter switch
- J53 Starter motor relay
- T6f 6-pin connector
- T10b 10-pin connector
- T18a 18-pin connector, near engine control unit

- 1 Earth strap, battery - body
- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- A57 Positive connection 3 (30), in dash panel wiring harness
- B479 Connection 15, in main wiring harness
- X78 Connection 1, in optional equipment wiring harness
- X79 Connection 2, in optional equipment wiring harness

\* Only models with electric interface for external use

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Alternator, Fuel pump relay, Terminal 30 voltage supply relay, Auxiliary coolant heater relay, Fuse 1 in fuse holder A, Fuse 2 on fuse holder B, Fuse 5 in fuse holder A

- C Alternator
- J17 Fuel pump relay
- J317 Terminal 30 voltage supply relay, on relay carrier
- J493 Auxiliary coolant heater relay
- SA1 Fuse 1 in fuse holder A
- SB2 Fuse 2 on fuse holder B
- SA2 Fuse 2 in fuse holder A
- SA4 Fuse 4 in fuse holder A
- SA5 Fuse 5 in fuse holder A
- T2bc 2-pin connector
- T2g 2-pin connector
- T5e 5-pin connector
- T18 18-pin connector, near engine control unit
- V55 Circulation pump

B564 Connection 31, in main wiring harness

B569 Connection 36, in main wiring harness

- \* see applicable current flow diagram for fuse assignment
- \*2 Only models with no air conditioning system/Climatronic
- \*3 Only for countries with hot climate

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Main relay, Heater element for crankcase breather, Fuse 10 on fuse holder C, Fuse 15 on fuse holder C, Fuse 23 on fuse holder C, Fuse 25 on fuse holder C

- J271 Main relay, on relay carrier
- J329 Terminal 15 voltage supply relay
- N79 Heater element for crankcase breather
- SC10 Fuse 10 on fuse holder C
- SC15 Fuse 15 on fuse holder C
- SC23 Fuse 23 on fuse holder C
- SC25 Fuse 25 on fuse holder C

369 Earth connection 4, in main wiring harness

656 Earth point, on right headlight

A15 Positive connection (15), in instrument wiring harness

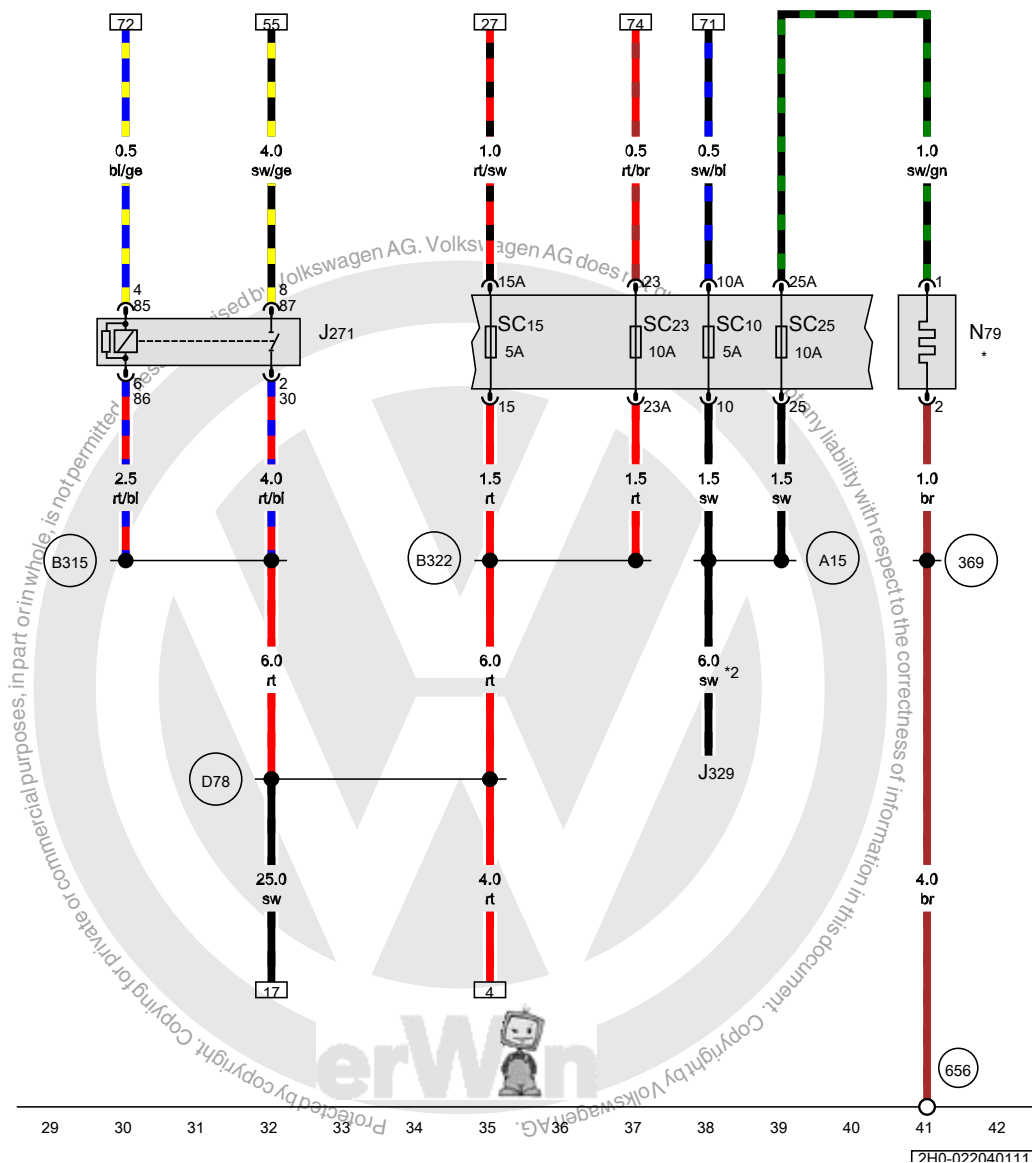
B315 Positive connection 1 (30a) in main wiring harness

B322 Positive connection 8 (30a) in main wiring harness

D78 Positive connection 1 (30a), in engine compartment wiring harness

\* Only models with crankcase breather heater element

\*2 see applicable current flow diagram for fuse assignment



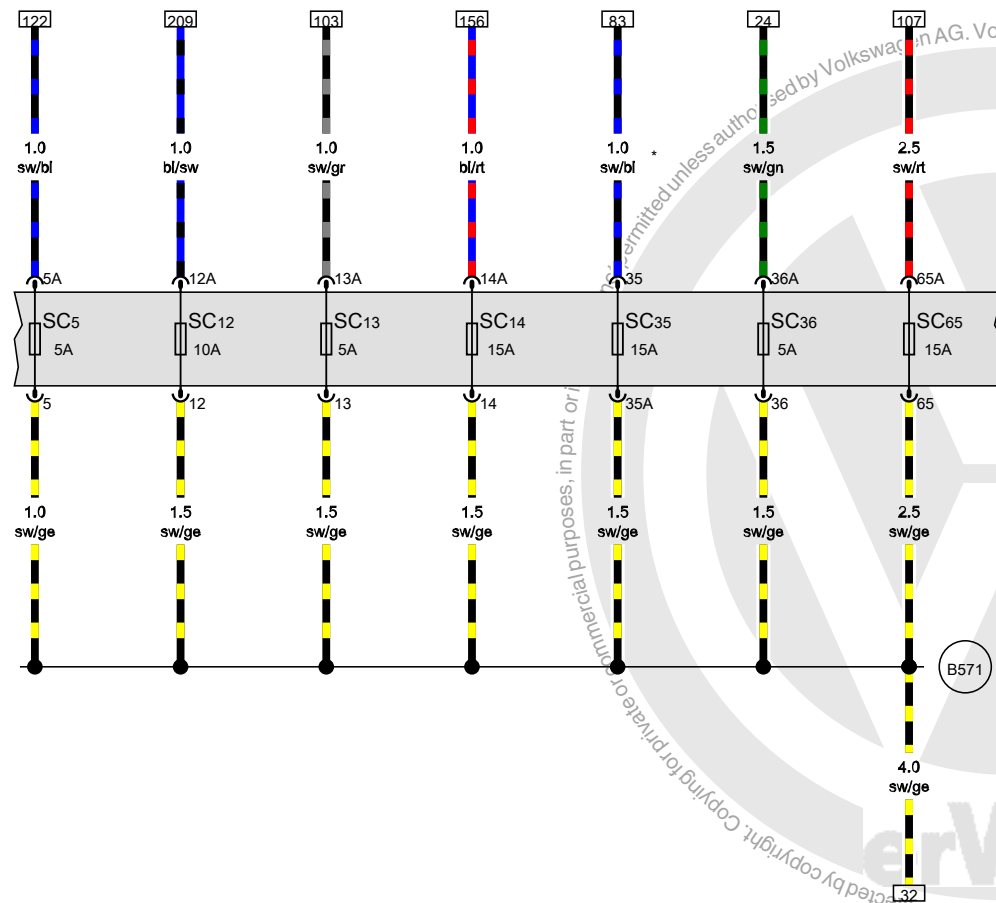
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Fuse 5 on fuse holder C, Fuse 12 on fuse holder C, Fuse 13 on fuse holder C, Fuse 14 on fuse holder C, Fuse 35 on fuse holder C, Fuse 36 on fuse holder C, Fuse 65 on fuse holder C

SC5 Fuse 5 on fuse holder C  
SC12 Fuse 12 on fuse holder C  
SC13 Fuse 13 on fuse holder C  
SC14 Fuse 14 on fuse holder C  
SC35 Fuse 35 on fuse holder C  
SC36 Fuse 36 on fuse holder C  
SC65 Fuse 65 on fuse holder C

B571 Connection 38, in main wiring harness

\* Only models with Euro 5 emission standard



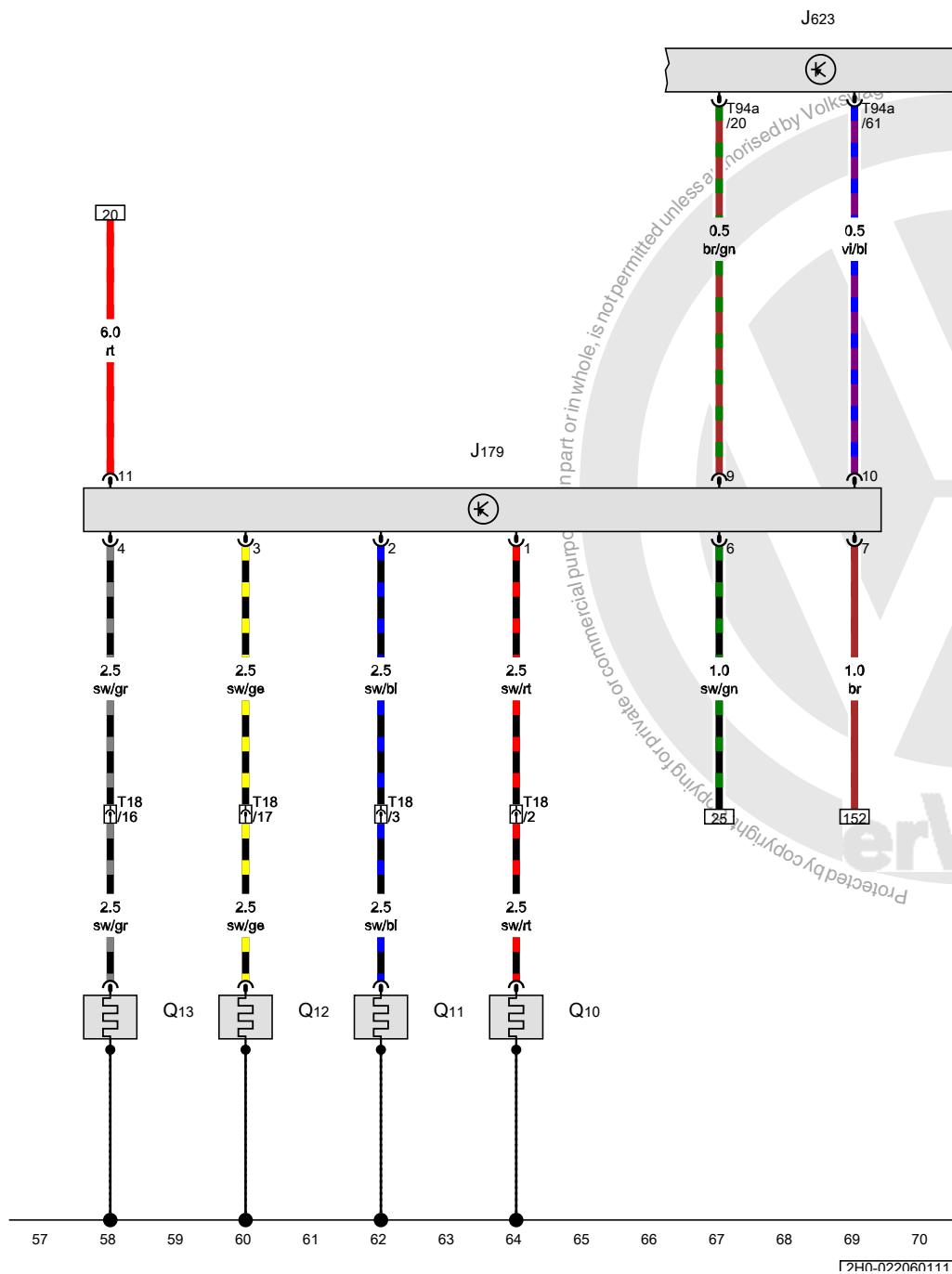
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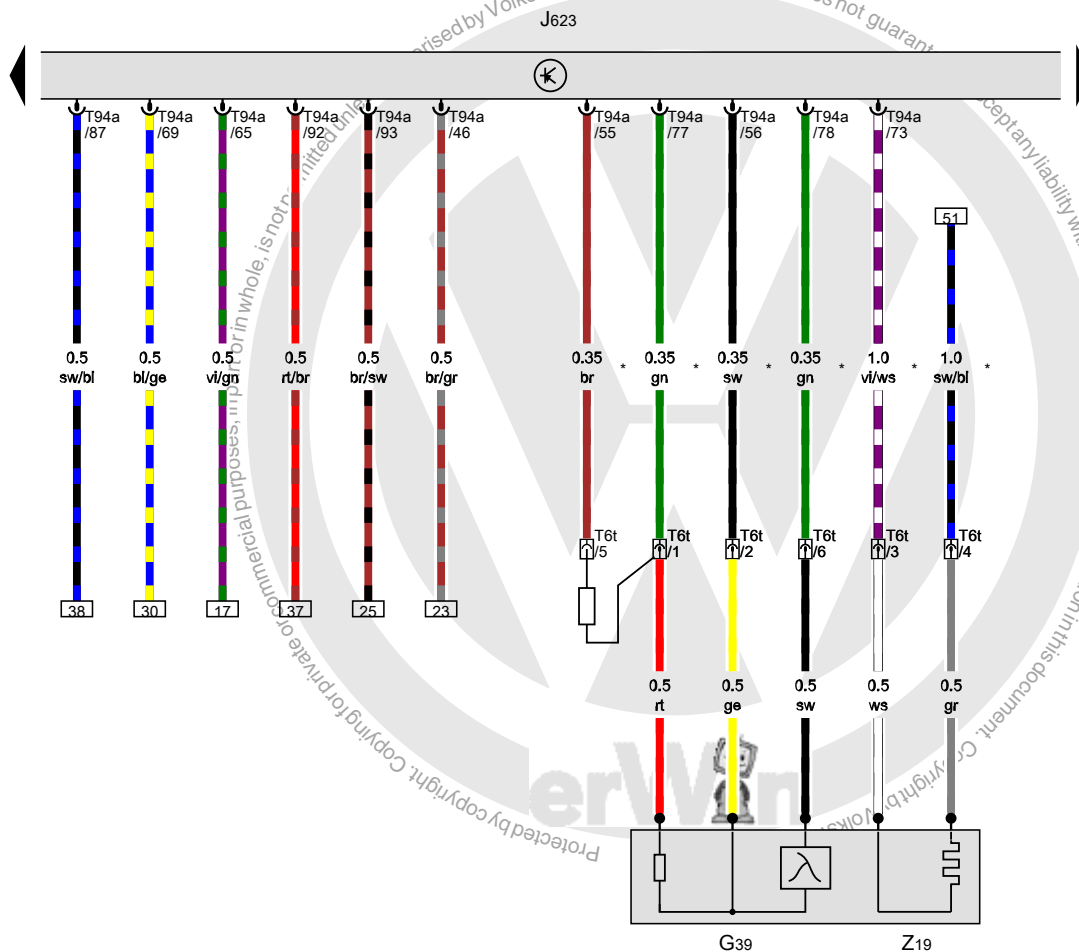
[740-022050111]

Automatic glow period control unit, Engine control unit, Glow plug 1, Glow plug 2, Glow plug 3, Glow plug 4

- J179 Automatic glow period control unit
- J623 Engine control unit
- Q10 Glow plug 1
- Q11 Glow plug 2
- Q12 Glow plug 3
- Q13 Glow plug 4
- T18 18-pin connector, near engine control unit
- T94a 94-pin connector



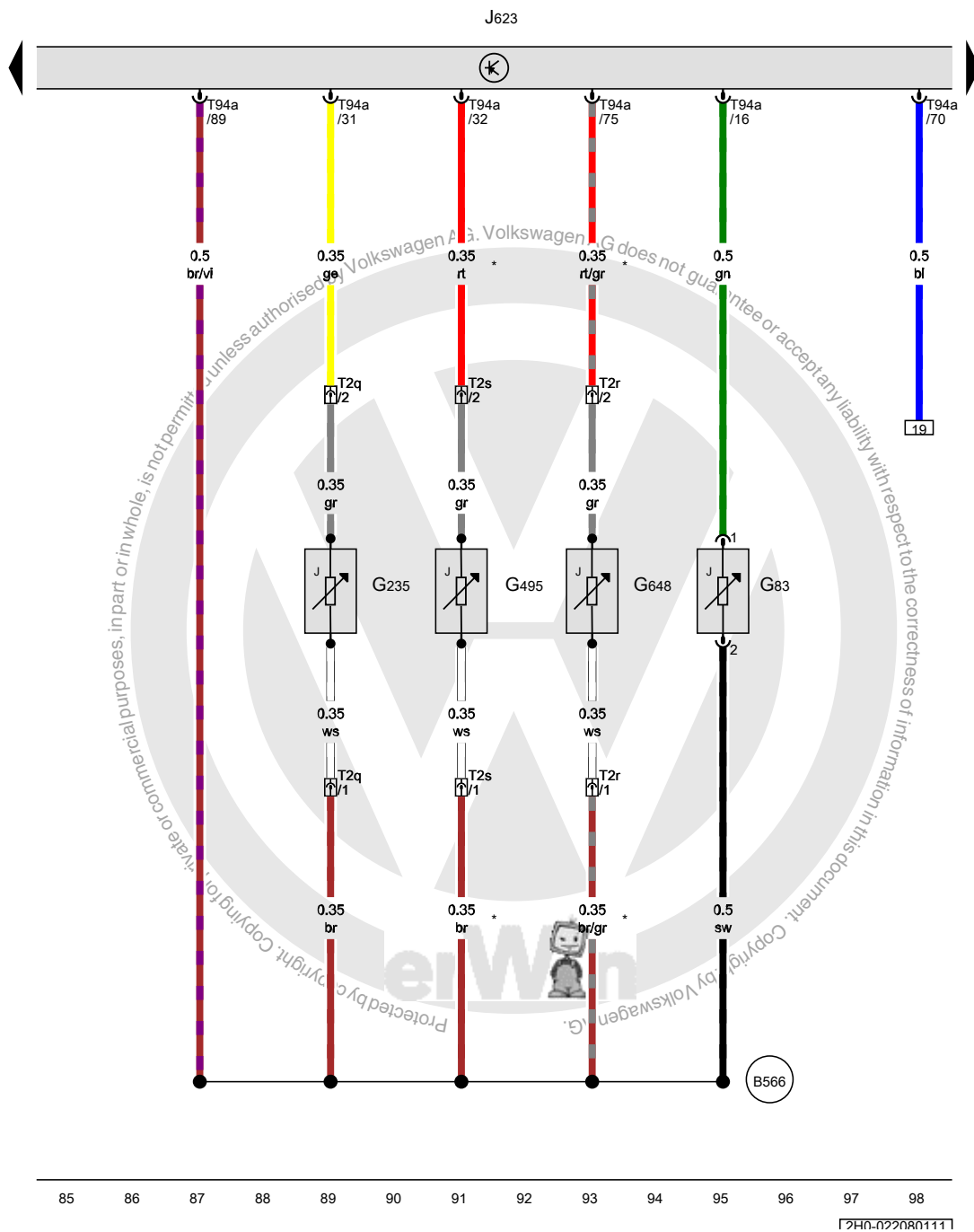
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### Lambda probe, Engine control unit

- G39 Lambda probe
- J623 Engine control unit
- T6t 6-pin connector, front right in engine compartment
- T94a 94-pin connector
- Z19 Lambda probe heater
- \* Only models with Euro 5 emission standard

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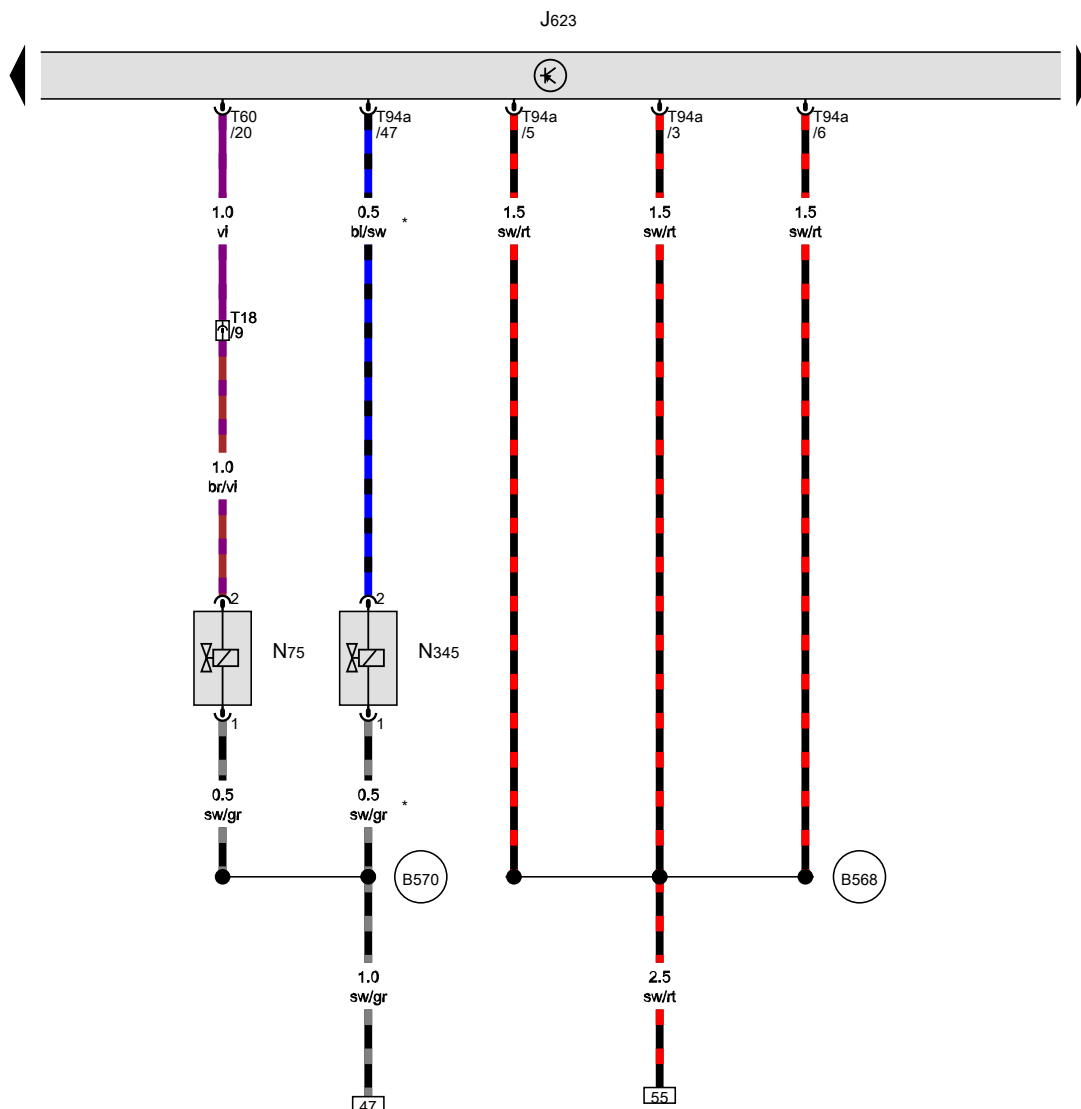
Radiator outlet coolant temperature sender, Exhaust gas temperature sender 1, Exhaust gas temperature sender 3, Exhaust gas temperature sender 4, Engine control unit

- G83 Radiator outlet coolant temperature sender
- G235 Exhaust gas temperature sender 1
- G495 Exhaust gas temperature sender 3
- G648 Exhaust gas temperature sender 4
- J623 Engine control unit
- T2 2-pin connector, front right in engine compartment
- T2q 2-pin connector, black
- T2r 2-pin connector, orange
- T2s 2-pin connector, brown
- T94a 94-pin connector

B566 Connection 33, in main wiring harness

\* Only models with Euro 5 emission standard

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**Engine control unit, Charge pressure control solenoid valve,  
Exhaust gas recirculation cooler changeover valve**

- J623 Engine control unit
- N75 Charge pressure control solenoid valve
- N345 Exhaust gas recirculation cooler changeover valve
- T18 18-pin connector, near engine control unit
- T60 60-pin connector
- T94a 94-pin connector

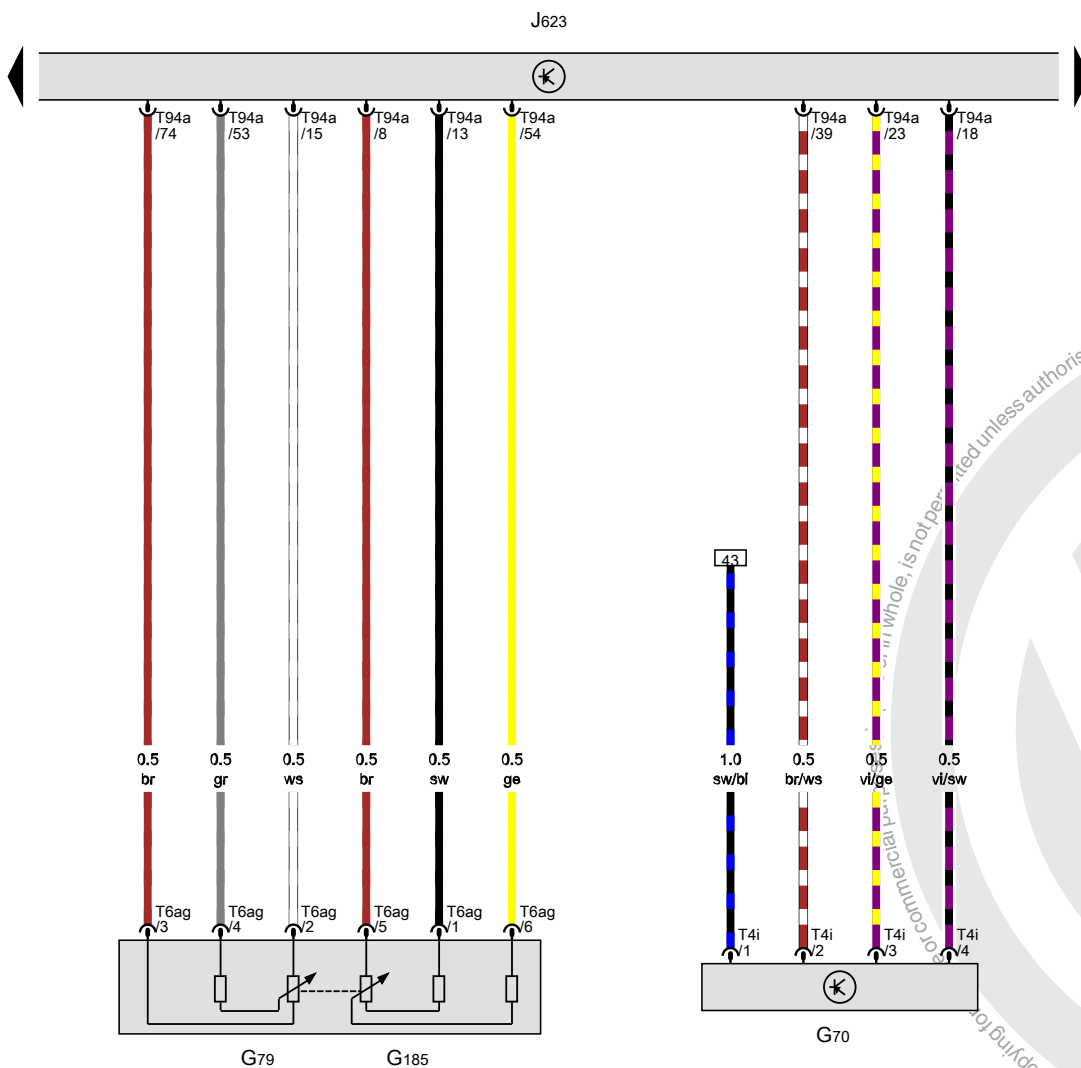
B568 Connection 35, in main wiring harness

B570 Connection 37, in main wiring harness

\* Only models with Euro 5 emission standard

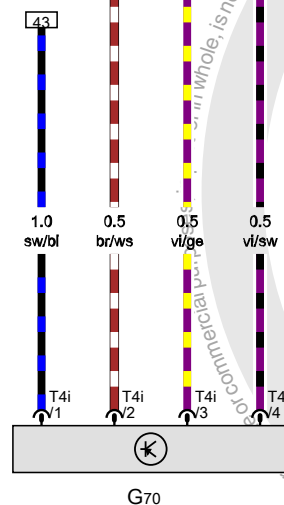
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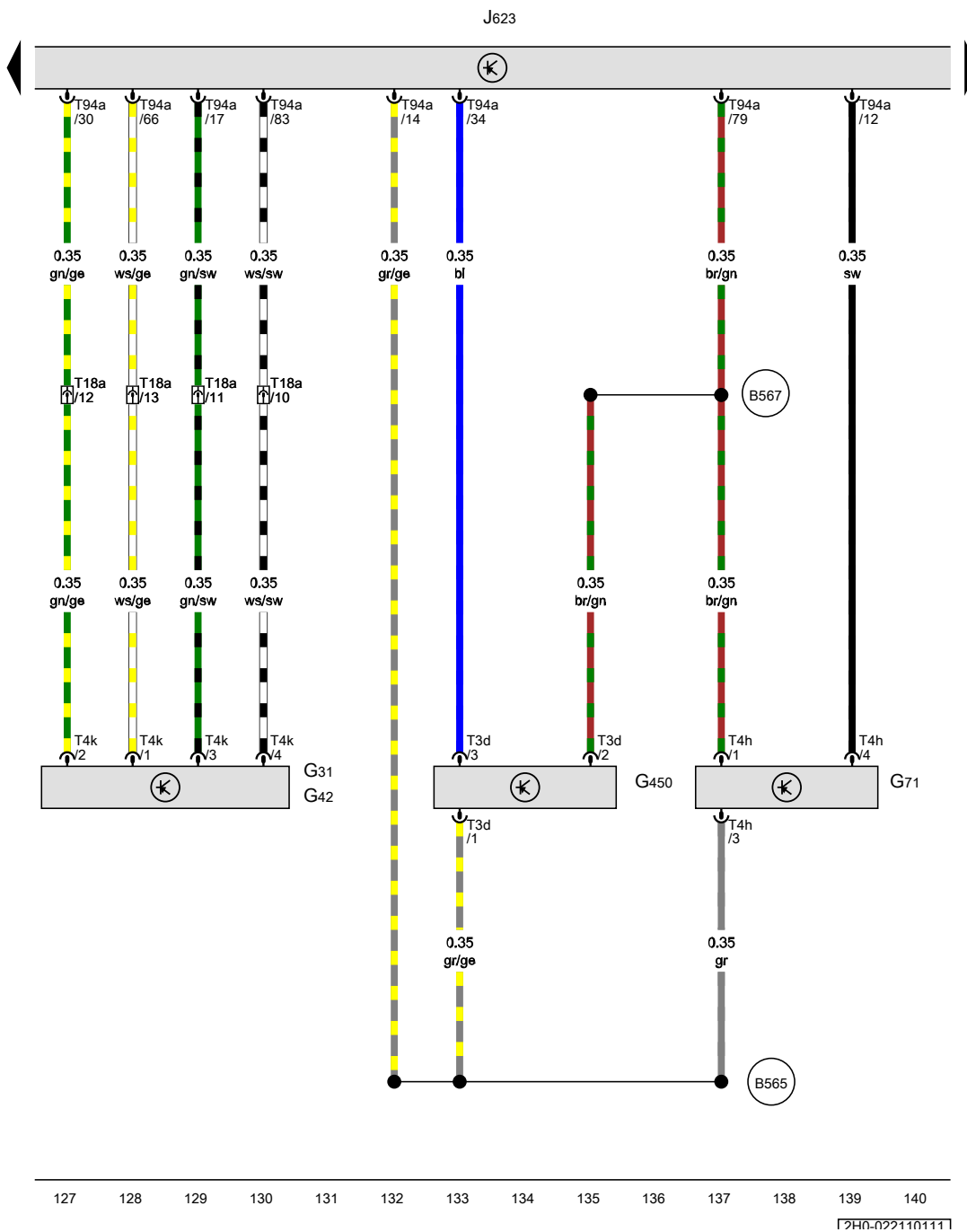


Air mass meter, Accelerator position sender, Accelerator position sender 2, Engine control unit

- G70 Air mass meter
- G79 Accelerator position sender
- G185 Accelerator position sender 2
- J623 Engine control unit
- T4i 4-pin connector
- T6ag 6-pin connector
- T94a 94-pin connector



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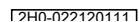
Charge pressure sender, Intake air temperature sender, Intake manifold pressure sender, Exhaust gas pressure sensor 1, Engine control unit

- G31 Charge pressure sender
- G42 Intake air temperature sender
- G71 Intake manifold pressure sender
- G450 Exhaust gas pressure sensor 1
- J623 Engine control unit
- T3d 3-pin connector
- T4h 4-pin connector
- T4k 4-pin connector
- T18a 18-pin connector, near engine control unit
- T94a 94-pin connector

B565 Connection 32, in main wiring harness

B567 Connection 34, in main wiring harness

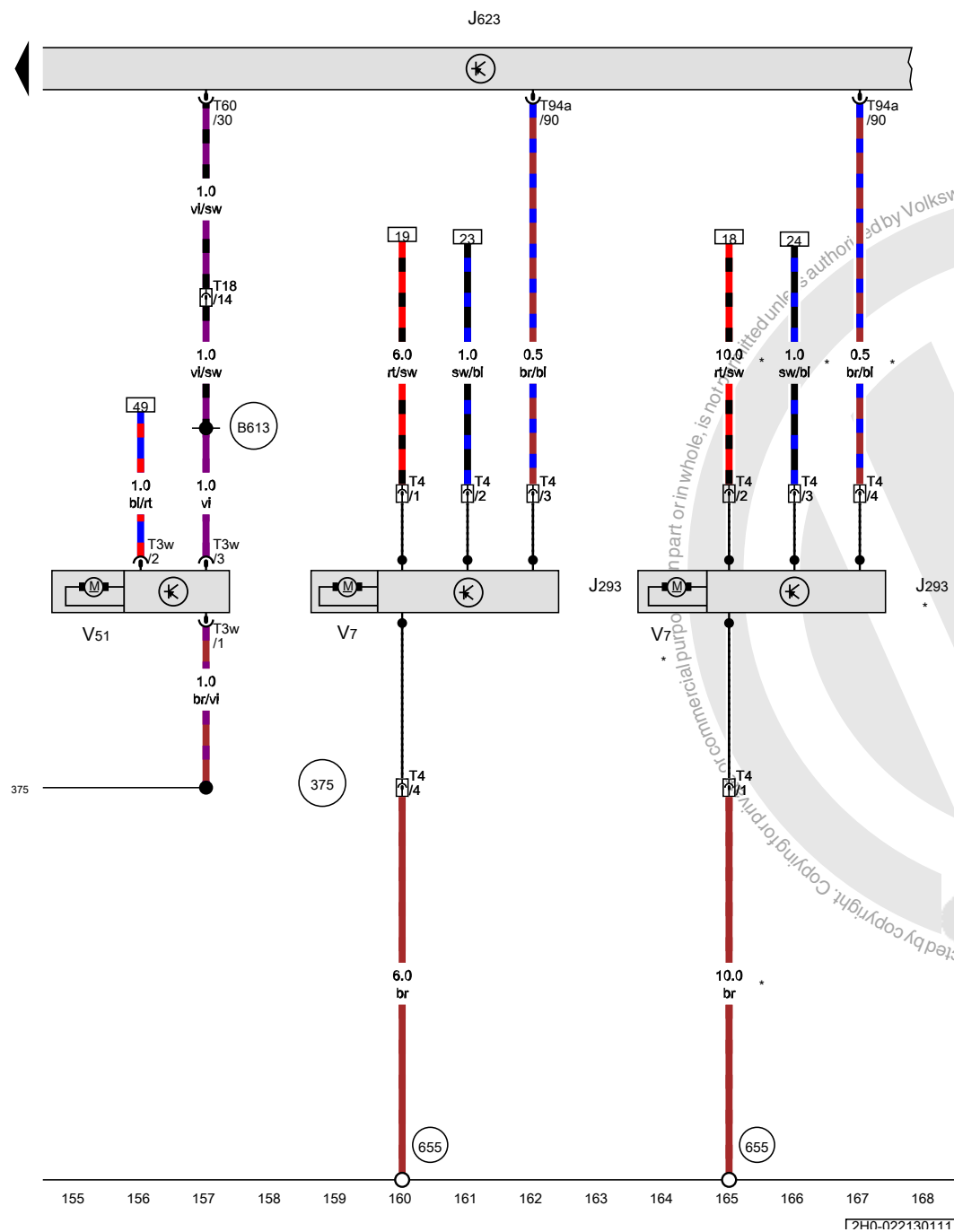
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F	Brake light switch
J104	ABS control unit
J519	Onboard supply control unit
J623	Engine control unit
T4c	4-pin connector
T6h	6-pin connector
T42	42-pin connector, near handbrake lever
T47	47-pin connector
T74a	74-pin connector
T94a	94-pin connector

- |      |  |
|------|--|
| 44   | Earth point, lower part of left A-pillar             |
| 366  | Earth connection 1, in main wiring harness           |
| 371  | Earth connection 6, in main wiring harness           |
| 375  | Earth connection 10, in main wiring harness          |
| 655  | Earth point, on left headlight                       |
| B482 | Connection 18, in main wiring harness                |
| X130 | Connection 3, in optional equipment wiring harness   |
| X131 | Connection 4, in optional equipment wiring harness   |
| *    | Only models with electric interface for external use |

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



**Radiator fan control unit, Engine control unit, Radiator fan, Continued coolant circulation pump**

J293	Radiator fan control unit
J623	Engine control unit
T3w	3-pin connector
T4	4-pin connector
T18	18-pin connector, near engine control unit
T60	60-pin connector
T94a	94-pin connector
V7	Radiator fan
V51	Continued coolant circulation pump

(375) Earth connection 10, in main wiring harness

655 Earth point, on left headlight

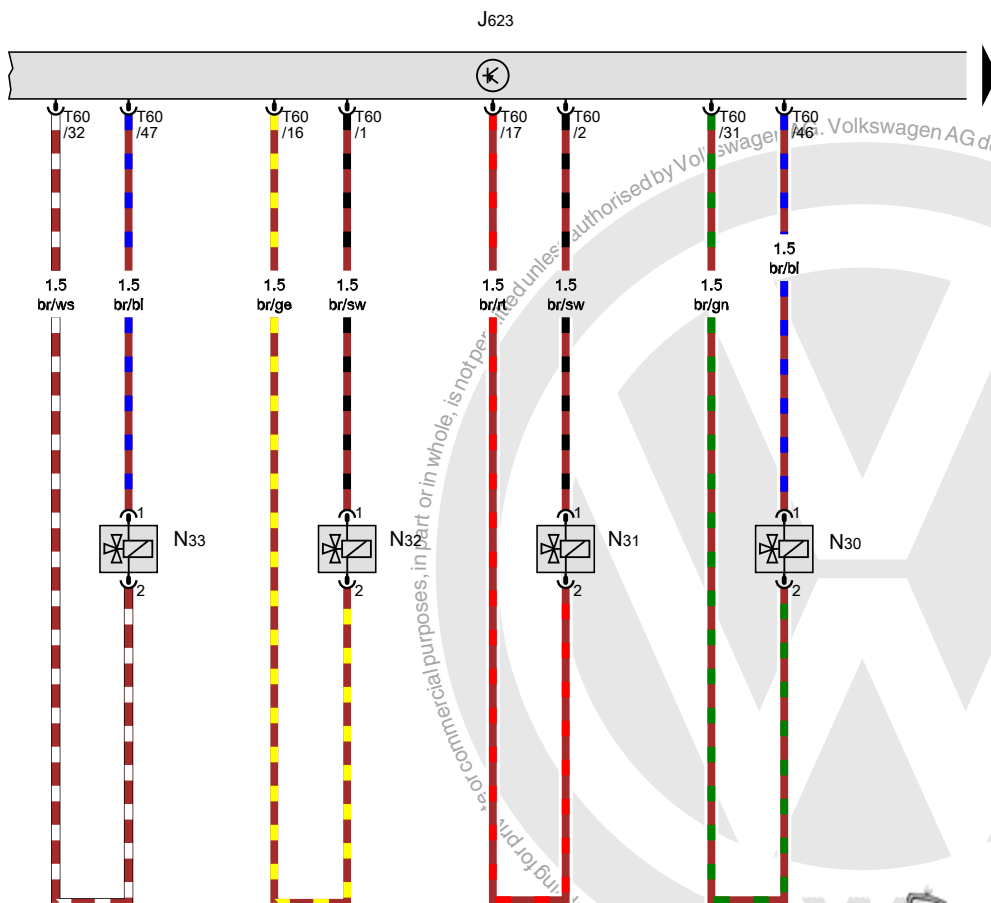
(B613) Connection 41, in main wiring harness

\* Only for countries with hot climate

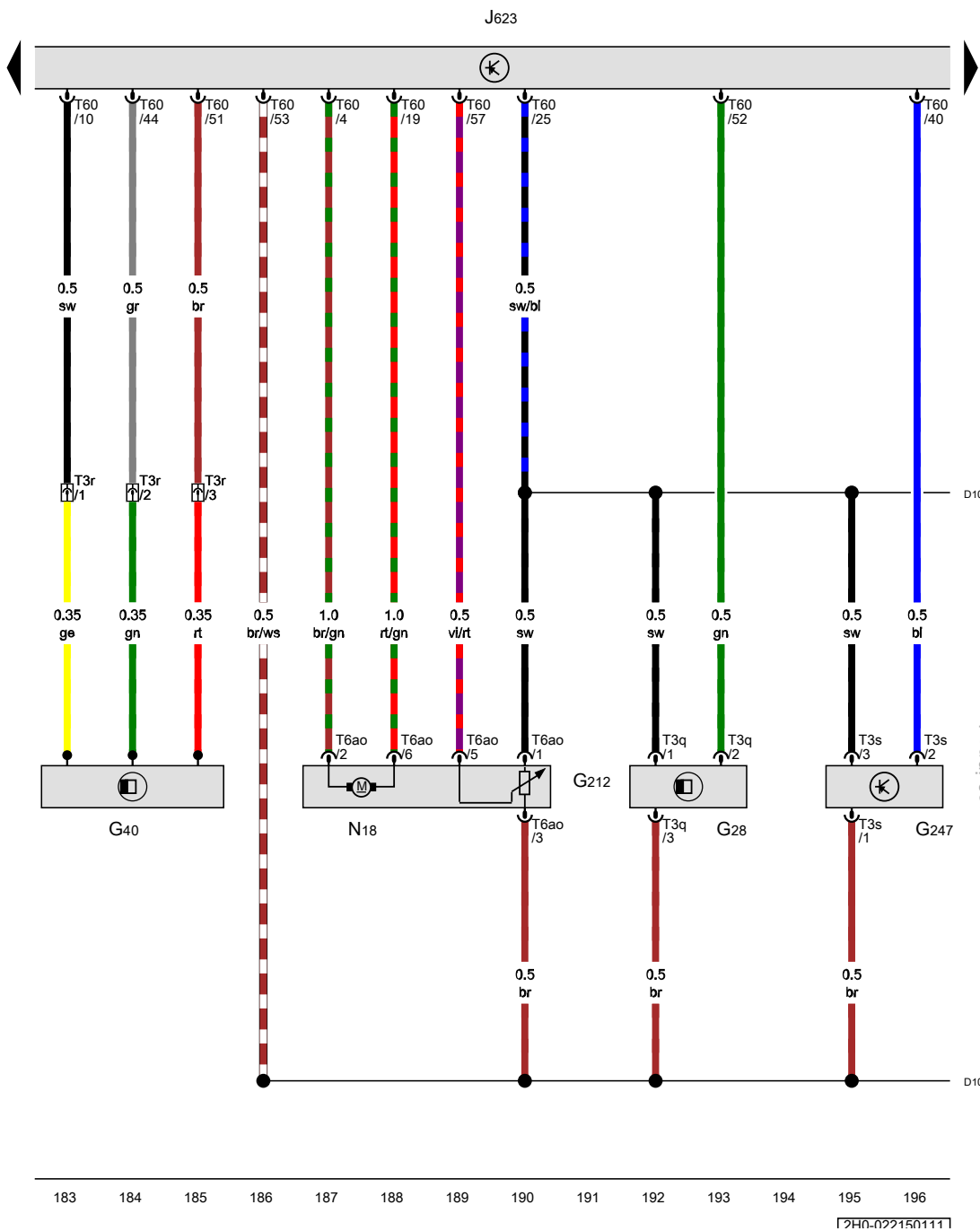
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sw = black  
ro = red  
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gn = green  
bl = blue  
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Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4

J623 Engine control unit  
N30 Injector, cylinder 1  
N31 Injector, cylinder 2  
N32 Injector, cylinder 3  
N33 Injector, cylinder 4  
T60 60-pin connector



ws = white  
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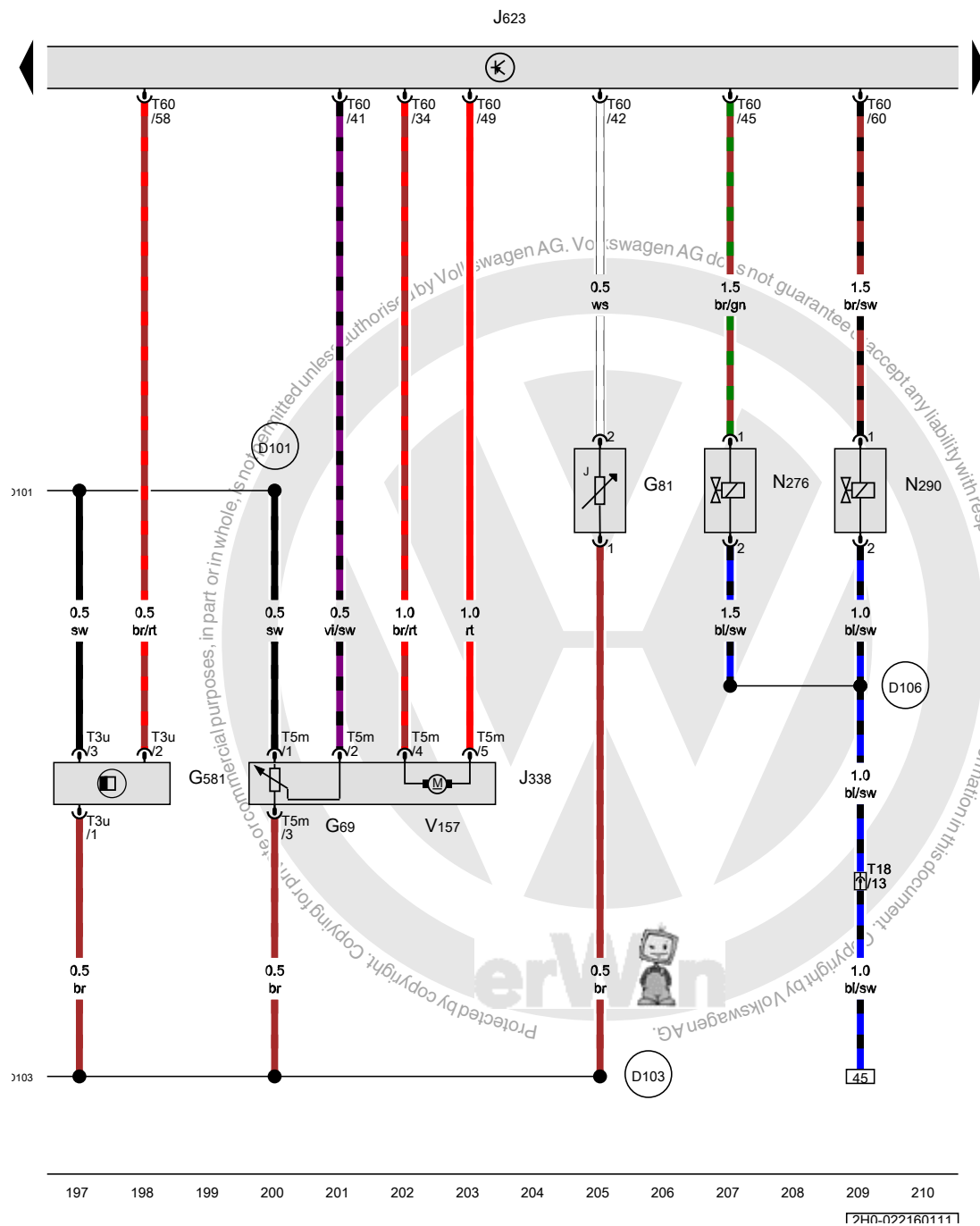
Hall sender, Exhaust gas recirculation potentiometer, Fuel pressure sender, Engine control unit, Exhaust gas recirculation valve

- G28 Engine speed sender
- G40 Hall sender
- G212 Exhaust gas recirculation potentiometer
- G247 Fuel pressure sender
- J623 Engine control unit
- N18 Exhaust gas recirculation valve
- T3q 3-pin connector
- T3r 3-pin connector, on front of engine
- T3s 3-pin connector
- T6ao 6-pin connector
- T60 60-pin connector

D101 Connection 1 in engine compartment wiring harness

D103 Connection 3 in engine compartment wiring harness

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- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

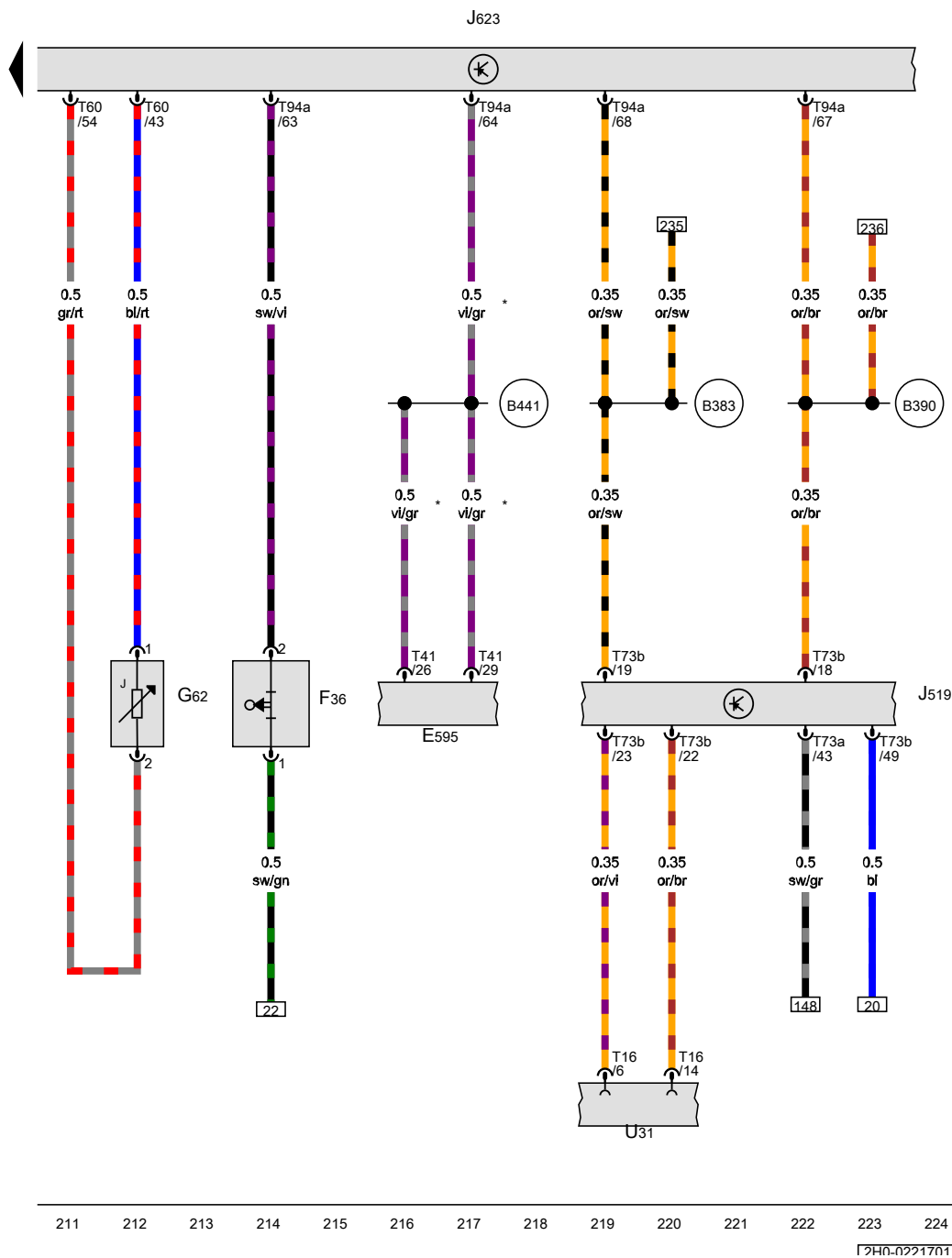


Throttle valve potentiometer, Fuel temperature sender, Position sender for charge pressure positioner, Throttle valve module, Engine control unit, Fuel pressure regulating valve, Fuel metering valve, Intake manifold flap motor

- G69 Throttle valve potentiometer
- G81 Fuel temperature sender
- G581 Position sender for charge pressure positioner
- J338 Throttle valve module
- J623 Engine control unit
- N276 Fuel pressure regulating valve
- N290 Fuel metering valve
- T3u 3-pin connector
- T5m 5-pin connector
- T18 18-pin connector
- T60 60-pin connector
- V157 Intake manifold flap motor

- D101 Connection 1 in engine compartment wiring harness
- D103 Connection 3 in engine compartment wiring harness
- D106 Connection 4 in engine compartment wiring harness

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 sw = black  
 ro = red  
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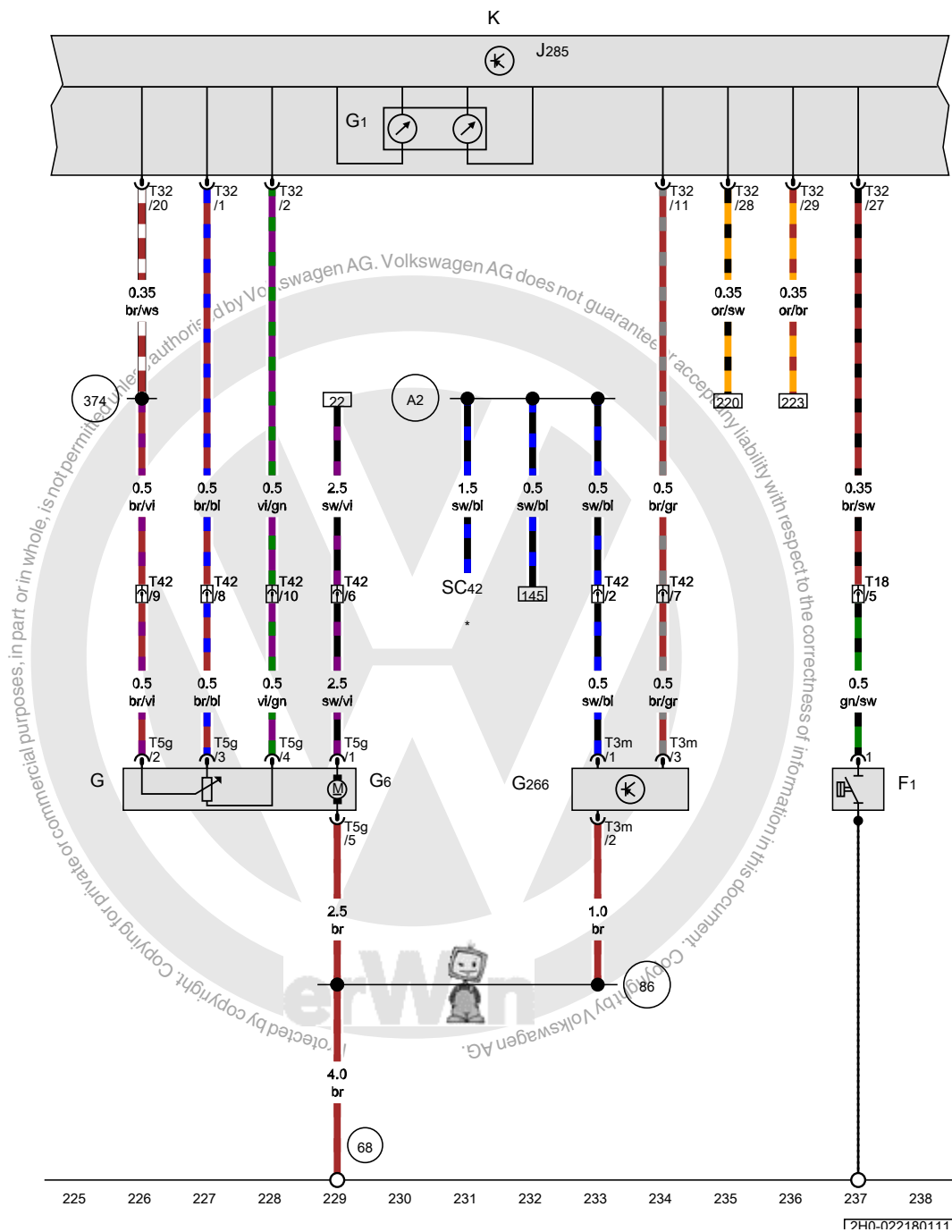
Steering column combination switch, Coolant temperature sender, Onboard supply control unit, Engine control unit

- E595 Steering column combination switch
- F36 Clutch pedal switch
- G62 Coolant temperature sender
- J519 Onboard supply control unit
- J623 Engine control unit
- T16 16-pin connector
- T41 41-pin connector
- T60 60-pin connector
- T73a 73-pin connector
- T73b 73-pin connector
- T94a 94-pin connector
- U31 Diagnostic connection

- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- B441 Connection (CCS), in main wiring harness
- \* Only models with cruise control system (CCS)

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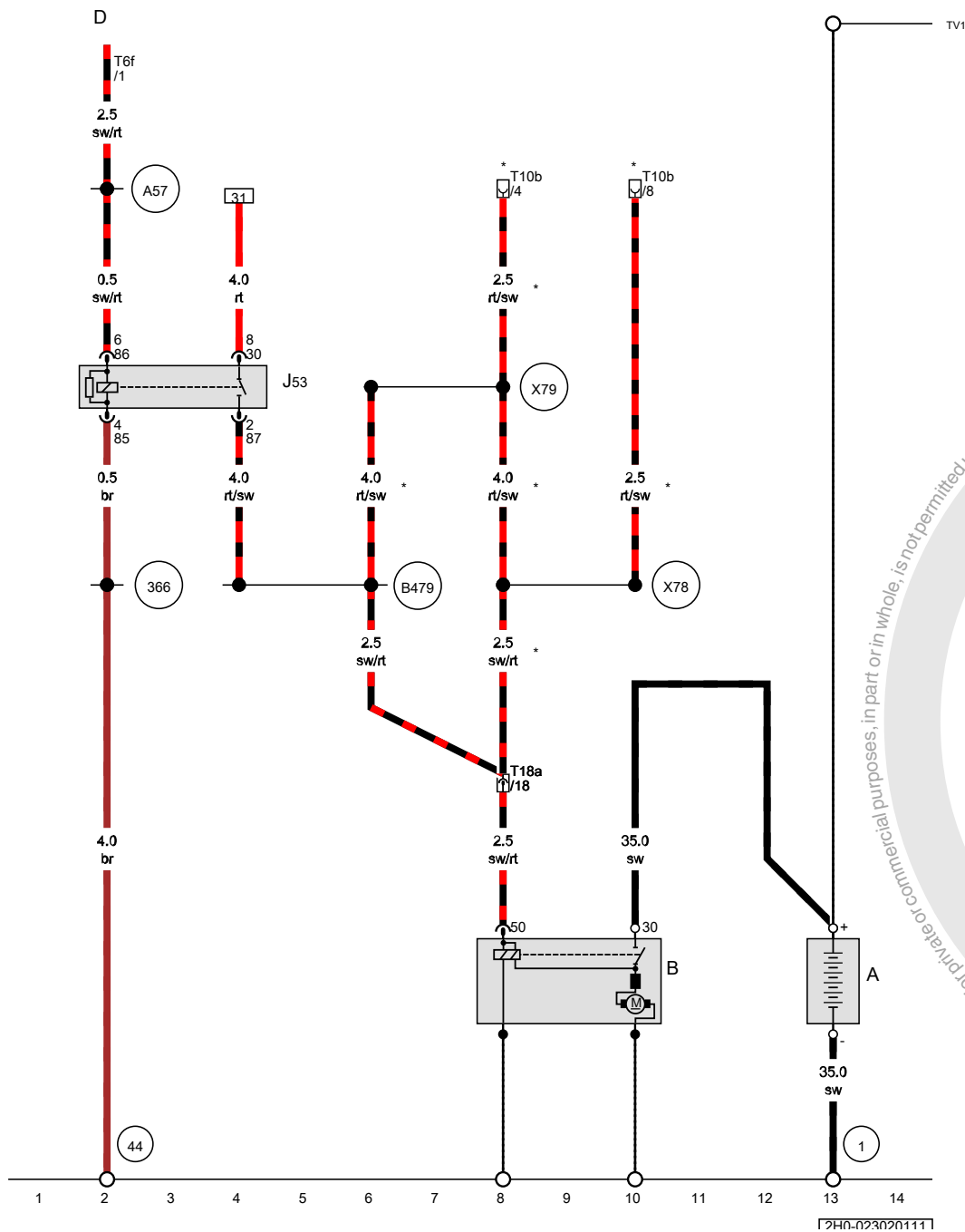
Oil pressure switch, Fuel system pressurisation pump, Oil level and oil temperature sender, Control unit in dash panel insert, Dash panel insert

- F1 Oil pressure switch
- G Fuel gauge sender
- G1 Fuel gauge
- G6 Fuel system pressurisation pump
- G266 Oil level and oil temperature sender
- J285 Control unit in dash panel insert
- K Dash panel insert
- SC42 Fuse 42 on fuse holder C
- T3m 3-pin connector
- T5g 5-pin connector
- T18 18-pin connector, near engine control unit
- T32 32-pin connector
- T42 42-pin connector, near handbrake lever
- 68 Earth point, on left of rear cross member
- 86 Earth connection 1, in rear wiring harness
- 374 Earth connection 9, in main wiring harness
- A2 Positive connection (15), in dash panel wiring harness
- \* see applicable current flow diagram for fuse assignment

## 2.0l diesel engine , CDCA

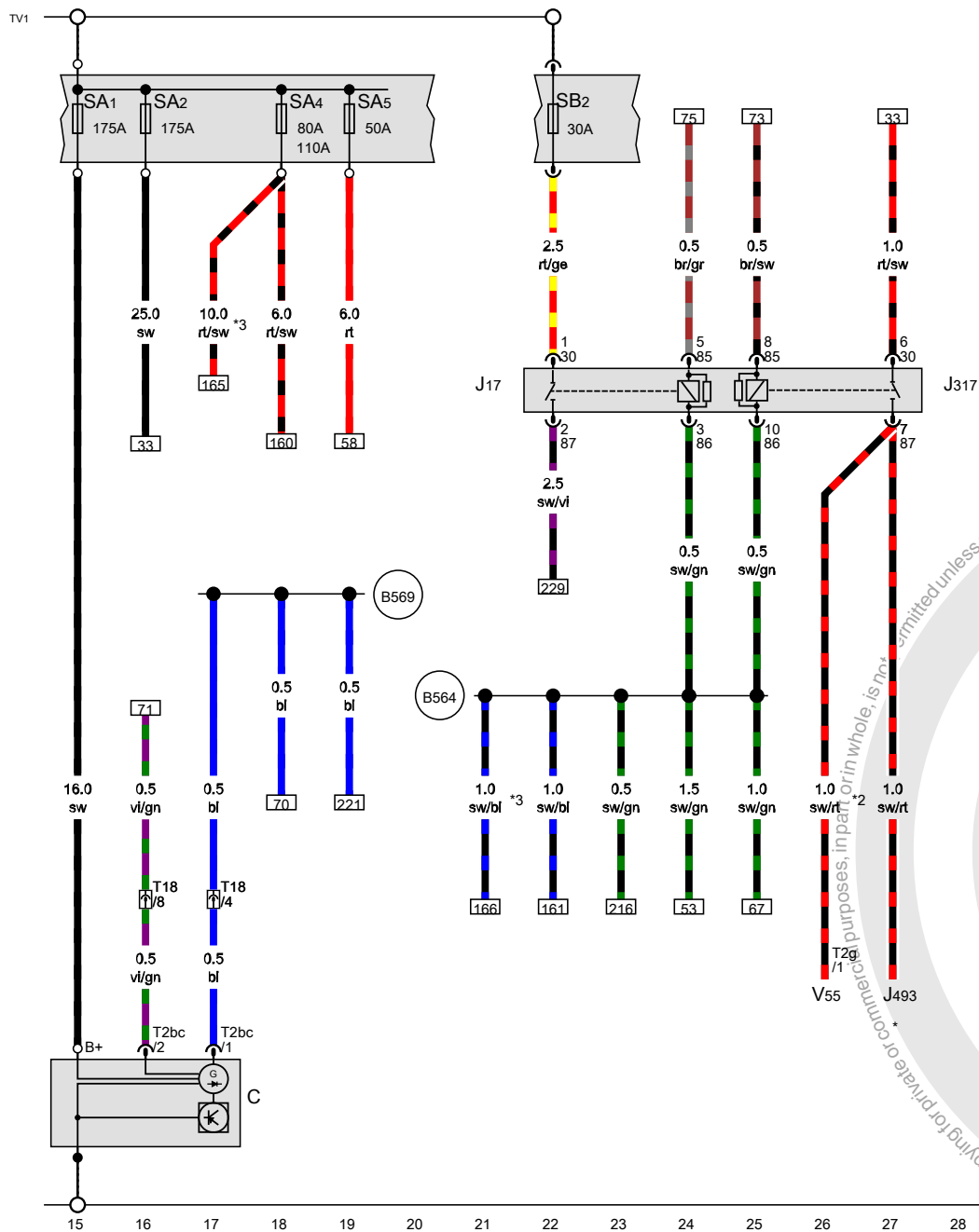
From December 2009





# Battery, Starter, Starter motor relay

- A Battery
- B Starter
- D Ignition/starter switch
- J53 Starter motor relay
- T6f 6-pin connector
- T10b 10-pin connector
- T18a 18-pin connector, near engine control unit
- 1 Earth strap, battery - body
- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- A57 Positive connection 3 (30), in dash panel wiring harness
- B479 Connection 15, in main wiring harness
- X78 Connection 1, in optional equipment wiring harness
- X79 Connection 2, in optional equipment wiring harness
- \* Only models with electric interface for external use



Alternator, Fuel pump relay, Terminal 30 voltage supply relay, Fuse 1 in fuse holder A, Fuse 2 on fuse holder B, Fuse 4 in fuse holder A, Fuse 5 in fuse holder A

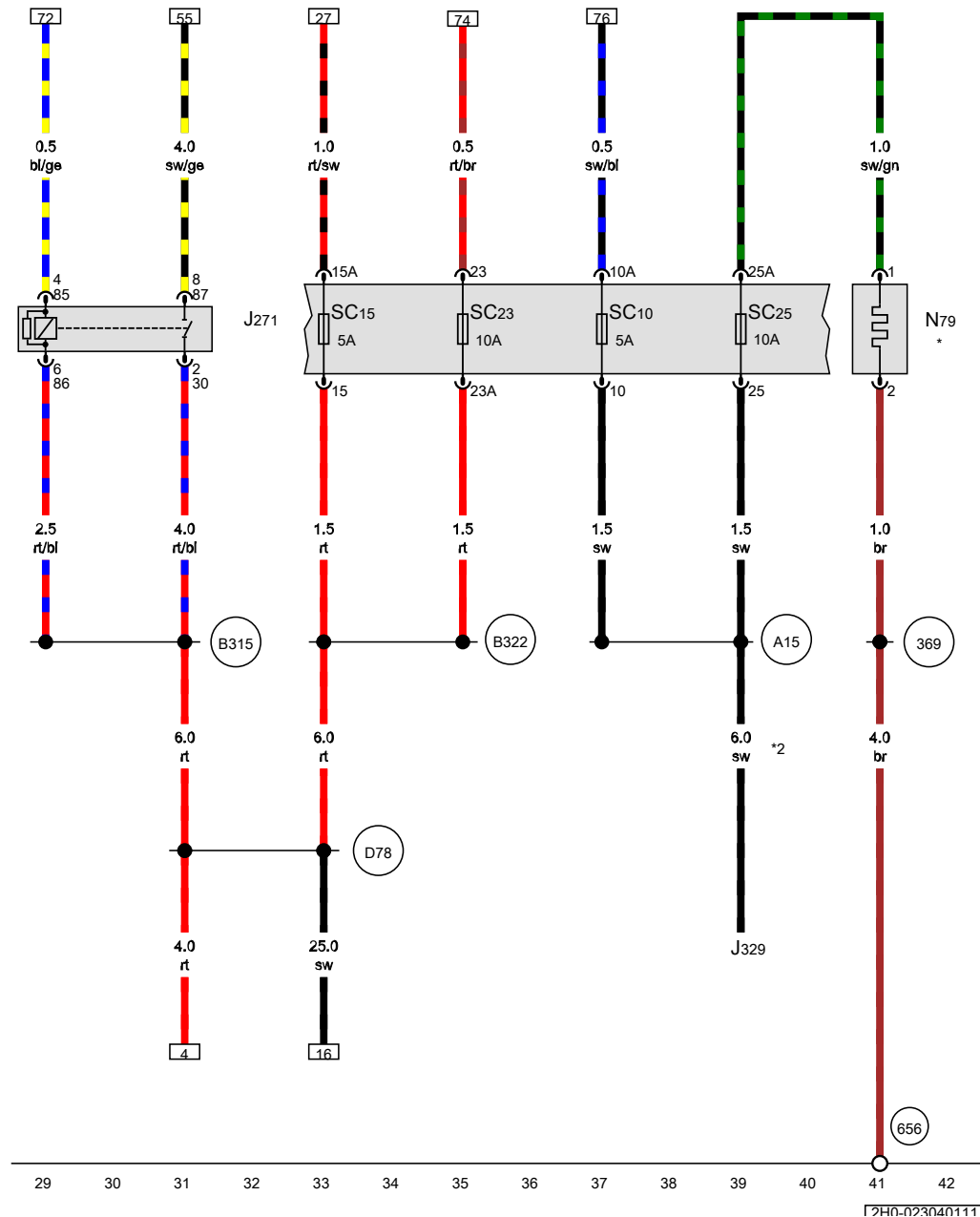
- C Alternator
- J17 Fuel pump relay
- J317 Terminal 30 voltage supply relay, on relay carrier
- J493 Auxiliary coolant heater relay
- SA1 Fuse 1 in fuse holder A
- SB2 Fuse 2 on fuse holder B
- SA2 Fuse 2 in fuse holder A
- SA4 Fuse 4 in fuse holder A
- SA5 Fuse 5 in fuse holder A
- T2bc 2-pin connector
- T2g 2-pin connector
- T5af 5-pin connector
- T18 18-pin connector, near engine control unit
- V55 Circulation pump

B564 Connection 31, in main wiring harness

B569 Connection 36, in main wiring harness

- \* see applicable current flow diagram for fuse assignment
- \*2 Only models with no air conditioning system/Climatronic
- \*3 Only for countries with hot climate

- ws = white
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**Main relay, Heater element for crankcase breather, Fuse 10 on fuse holder C, Fuse 15 on fuse holder C, Fuse 23 on fuse holder C, Fuse 25 on fuse holder C**

J271	Main relay, on relay carrier
J329	Terminal 15 voltage supply relay
N79	Heater element for crankcase breather
SC10	Fuse 10 on fuse holder C
SC15	Fuse 15 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC25	Fuse 25 on fuse holder C

(369) Earth connection 4, in main wiring harness

656 Earth point, on right headlight

(A15) Positive connection (15), in instrument wiring harness

(B315) Positive connection 1 (30a) in main wiring harness

(B322) Positive connection 8 (30a) in main wiring harness

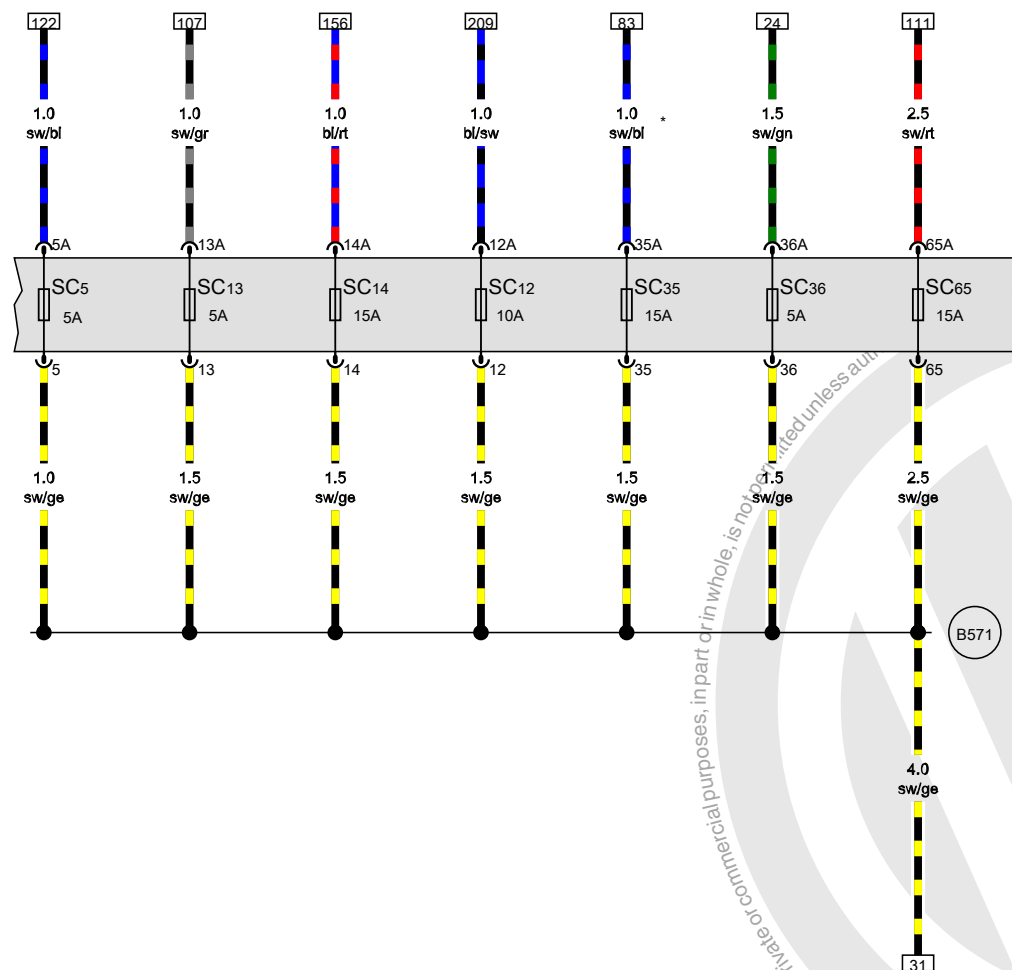
(D78) Positive connection 1 (30a), in engine compartment wiring harness

\* Only models with crankcase breather heater element  
\*2 see applicable current flow diagram for fuse assignment

ws = white  
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Fuse 5 on fuse holder C, Fuse 12 on fuse holder C, Fuse 13 on fuse holder C, Fuse 14 on fuse holder C, Fuse 35 on fuse holder C, Fuse 36 on fuse holder C, Fuse 65 on fuse holder C

- SC5 Fuse 5 on fuse holder C
- SC12 Fuse 12 on fuse holder C
- SC13 Fuse 13 on fuse holder C
- SC14 Fuse 14 on fuse holder C
- SC35 Fuse 35 on fuse holder C
- SC36 Fuse 36 on fuse holder C
- SC65 Fuse 65 on fuse holder C
- (B571) Connection 38, in main wiring harness
- \* Only models with Euro 5 emission standard



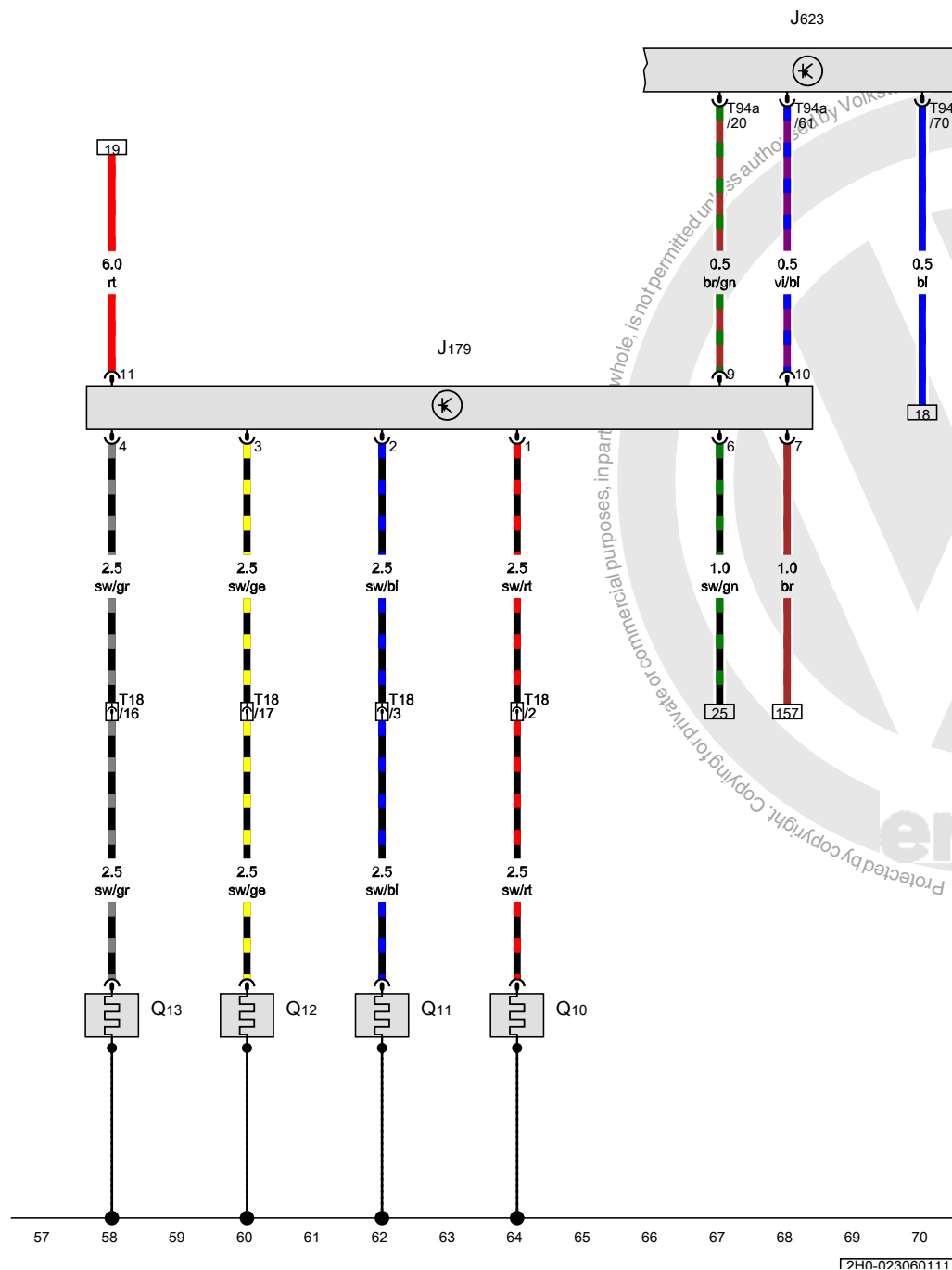
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- bl = blue
- gr = grey
- li = purple
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- or = orange
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43 44 45 46 47 48 49 50 51 52 53 54 55 56

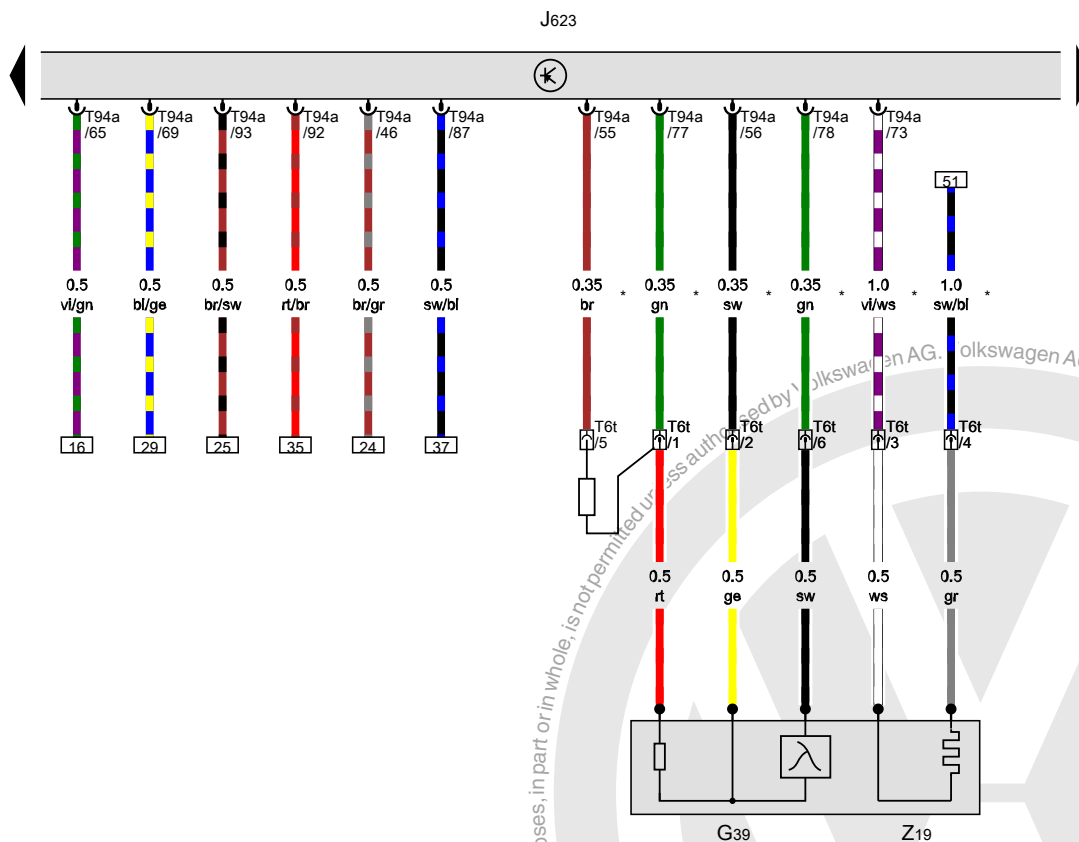
[740-023050111]

Automatic glow period control unit, Engine control unit, Glow plug 1, Glow plug 2, Glow plug 3, Glow plug 4

- J179 Automatic glow period control unit, near left headlight
- J623 Engine control unit, near battery
- Q10 Glow plug 1
- Q11 Glow plug 2
- Q12 Glow plug 3
- Q13 Glow plug 4
- T18 18-pin connector, near engine control unit
- T94a 94-pin connector



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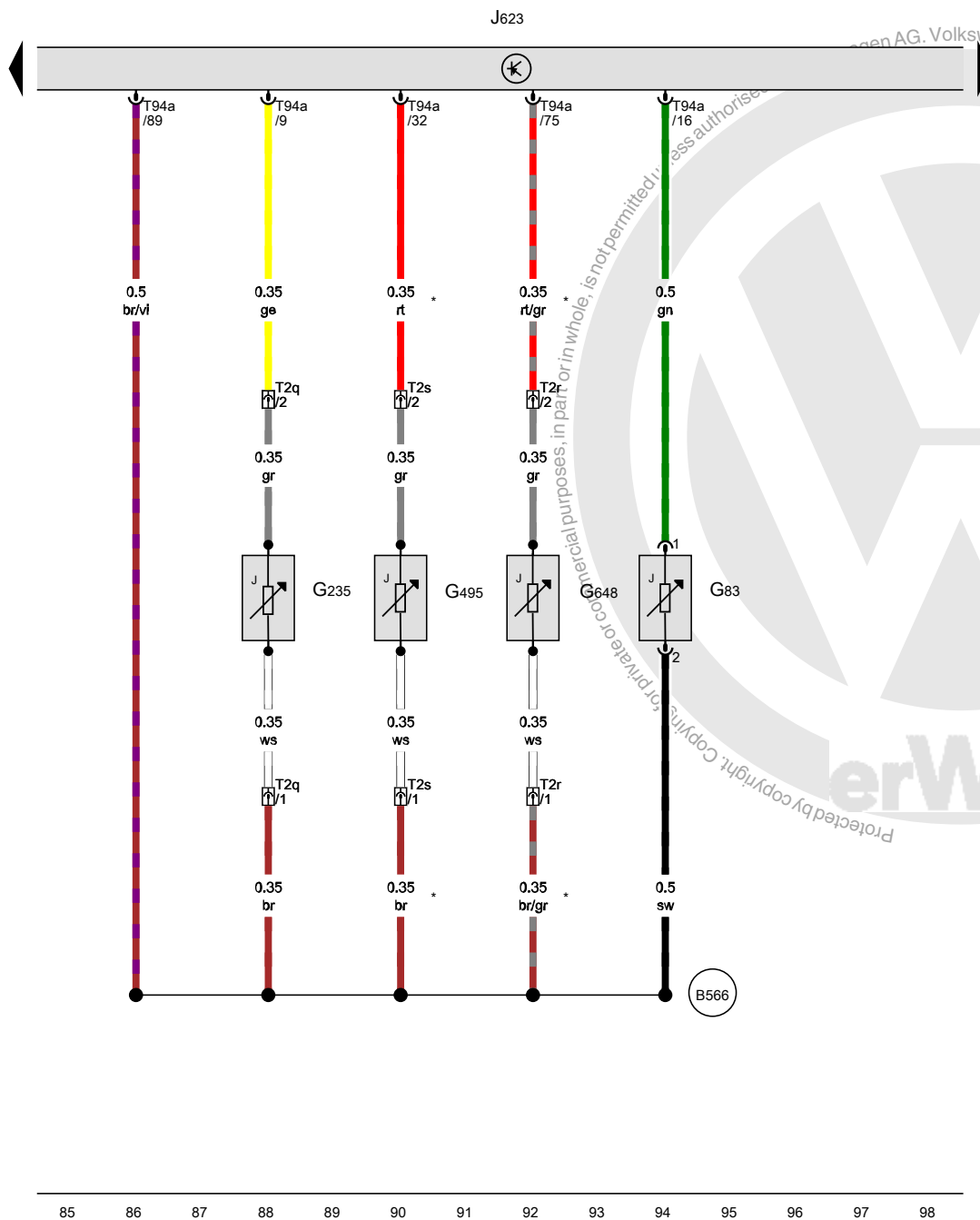


### Lambda probe, Engine control unit

- G39 Lambda probe
- J623 Engine control unit, near battery
- T6t 6-pin connector, black
- T94a 94-pin connector
- Z19 Lambda probe heater
- \* Only models with Euro 5 emission standard

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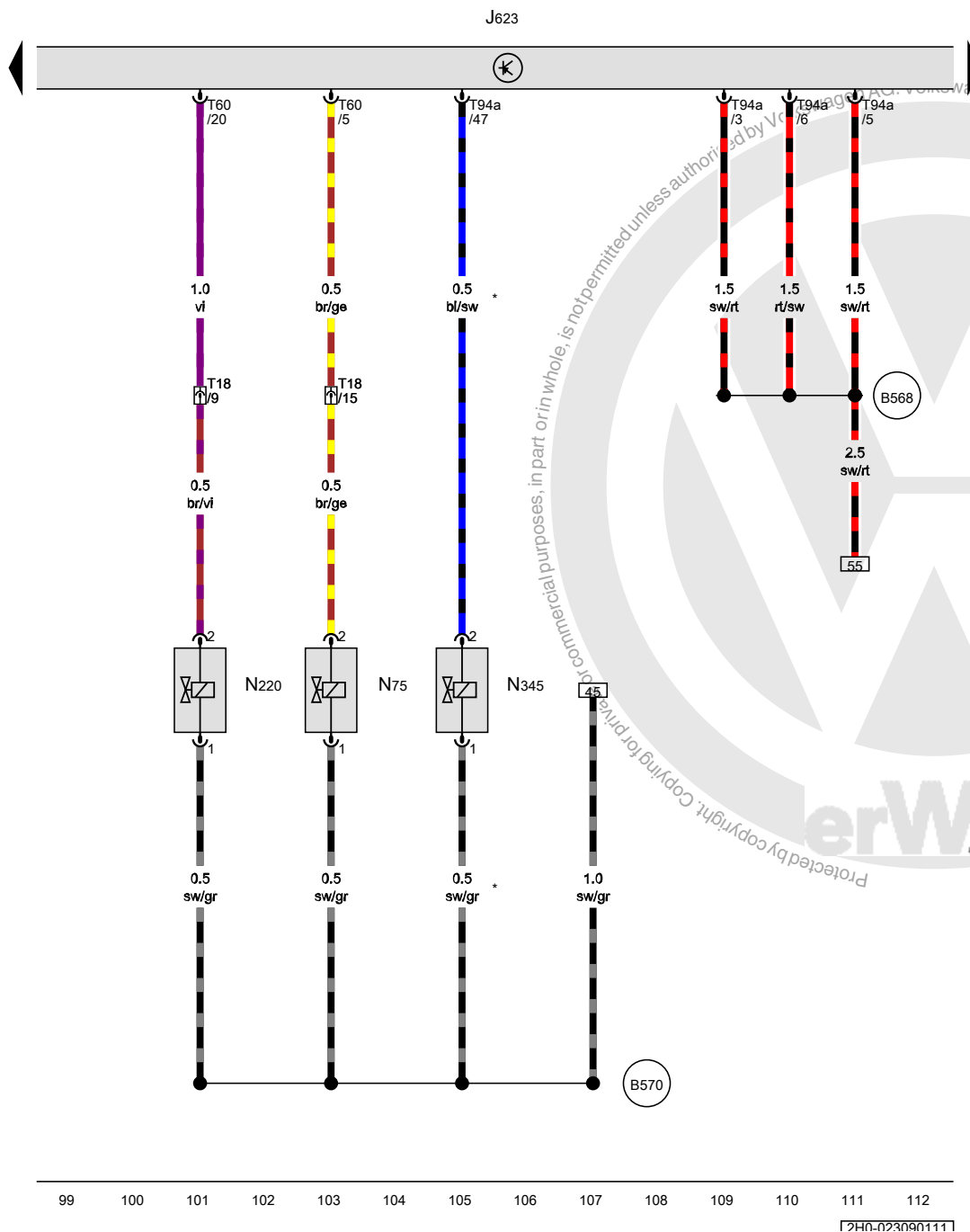
Radiator outlet coolant temperature sender, Exhaust gas temperature sender 1, Exhaust gas temperature sender 3, Exhaust gas temperature sender 4, Engine control unit

- G83 Radiator outlet coolant temperature sender
- G235 Exhaust gas temperature sender 1
- G495 Exhaust gas temperature sender 3
- G648 Exhaust gas temperature sender 4
- J623 Engine control unit, near battery
- T2 2-pin connector, front right in engine compartment
- T2q 2-pin connector, black
- T2r 2-pin connector, orange
- T2s 2-pin connector, brown
- T94a 94-pin connector

B566 Connection 33, in main wiring harness

\* Only models with Euro 5 emission standard

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- ge = yellow
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Engine control unit, Charge pressure control solenoid valve, Exhaust flap valve, Exhaust gas recirculation cooler changeover valve

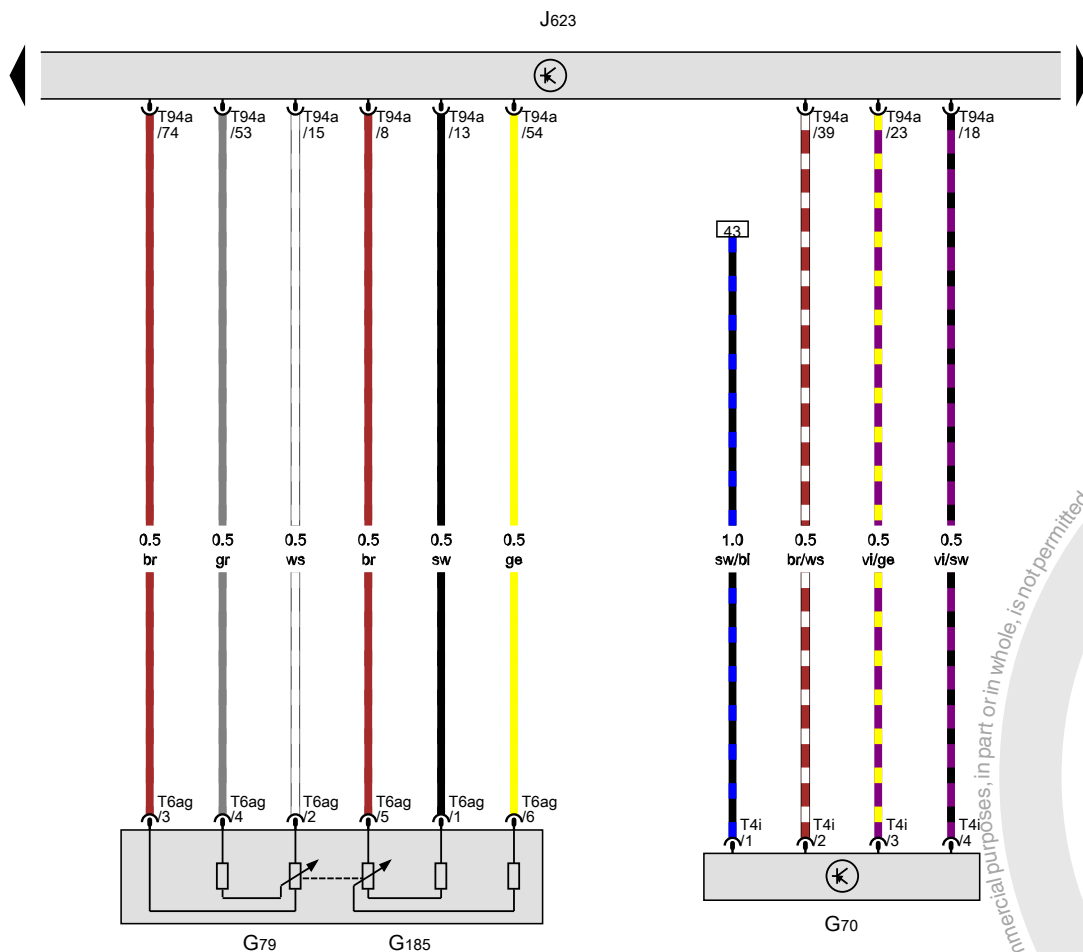
- J623 Engine control unit, near battery
- N75 Charge pressure control solenoid valve
- N220 Exhaust flap valve
- N345 Exhaust gas recirculation cooler changeover valve
- T18 18-pin connector
- T60 60-pin connector
- T94a 94-pin connector

B568 Connection 35, in main wiring harness

B570 Connection 37, in main wiring harness

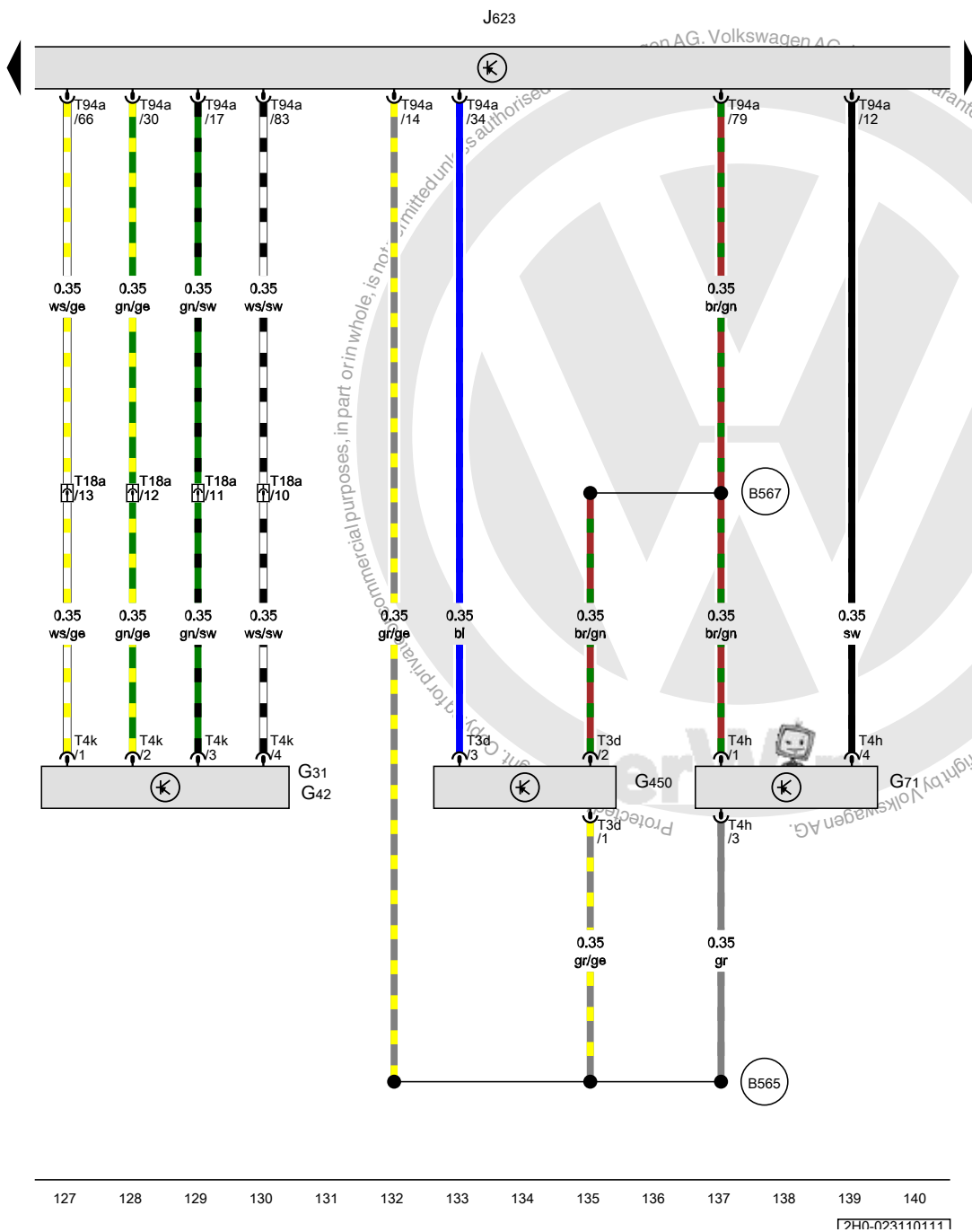
\* Only models with Euro 5 emission standard

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Air mass meter, Accelerator position sender, Accelerator position sender 2, Engine control unit

- G70 Air mass meter
- G79 Accelerator position sender
- G185 Accelerator position sender 2
- J623 Engine control unit, near battery
- T4i 4-pin connector
- T6ag 6-pin connector
- T94a 94-pin connector

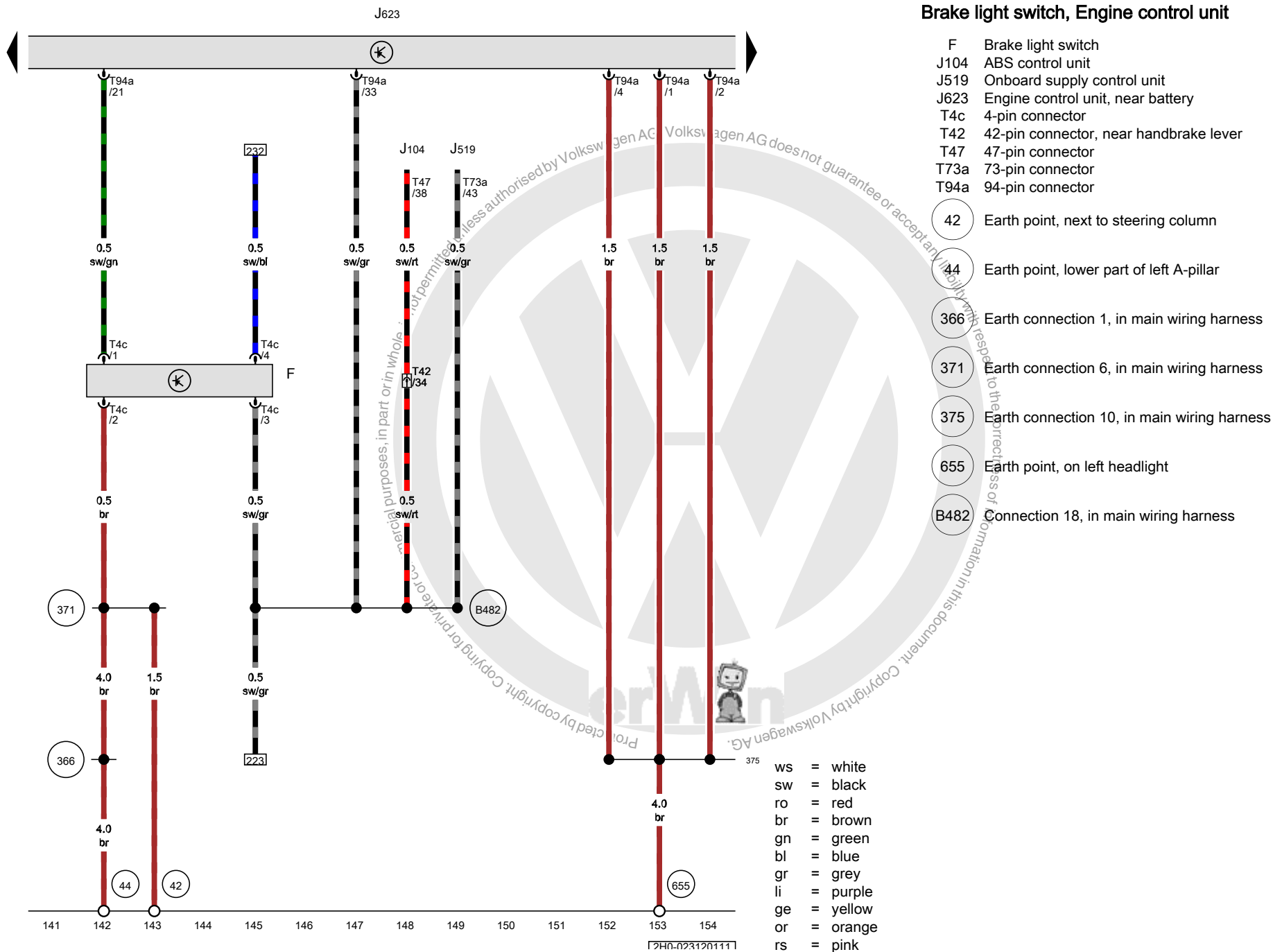


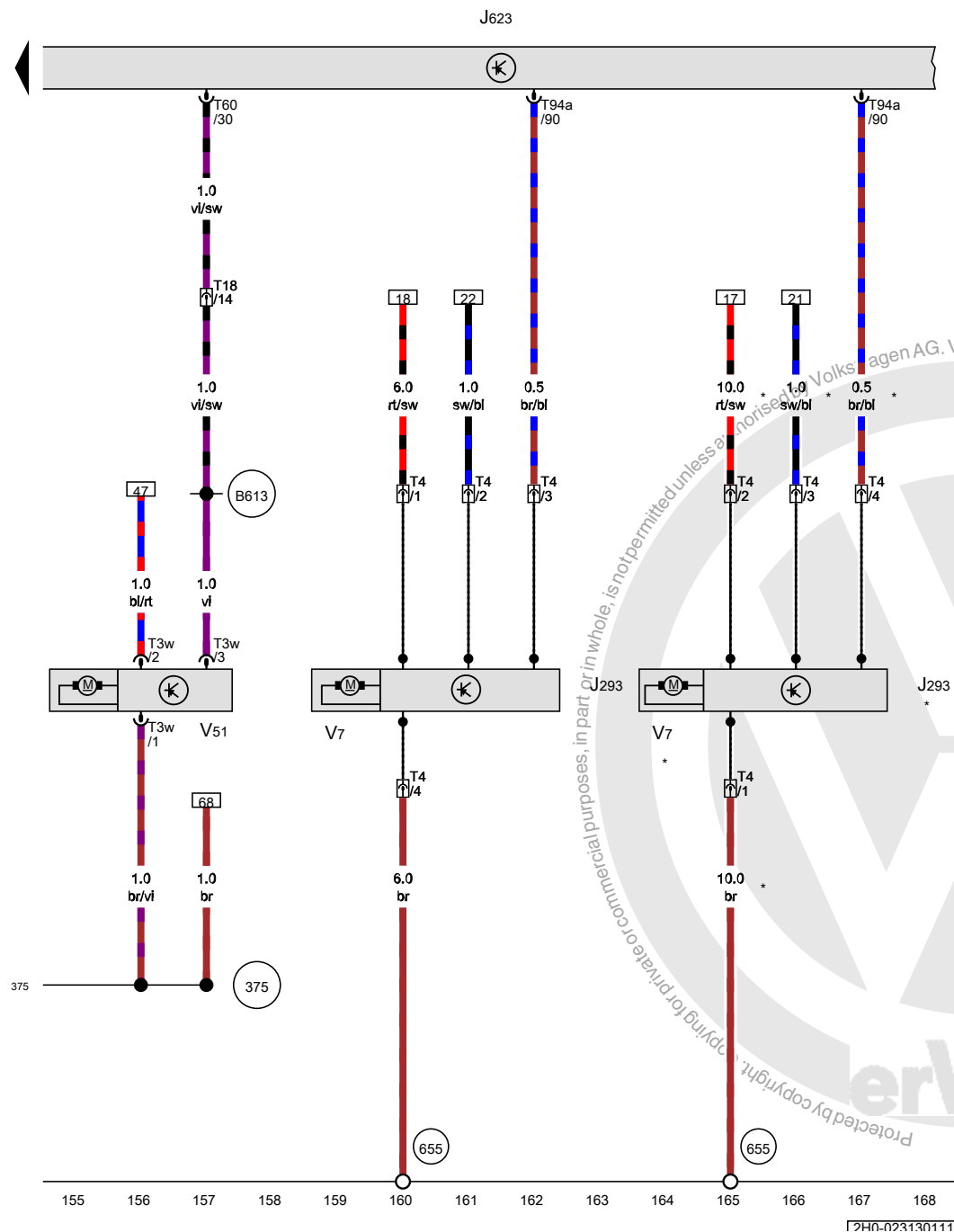
Charge pressure sender, Intake air temperature sender, Intake manifold pressure sender, Exhaust gas pressure sensor 1, Engine control unit

- G31 Charge pressure sender
- G42 Intake air temperature sender
- G71 Intake manifold pressure sender
- G450 Exhaust gas pressure sensor 1
- J623 Engine control unit, near battery
- T3d 3-pin connector
- T4h 4-pin connector
- T4k 4-pin connector
- T18a 18-pin connector, near engine control unit
- T94a 94-pin connector

B565 Connection 32, in main wiring harness

B567 Connection 34, in main wiring harness





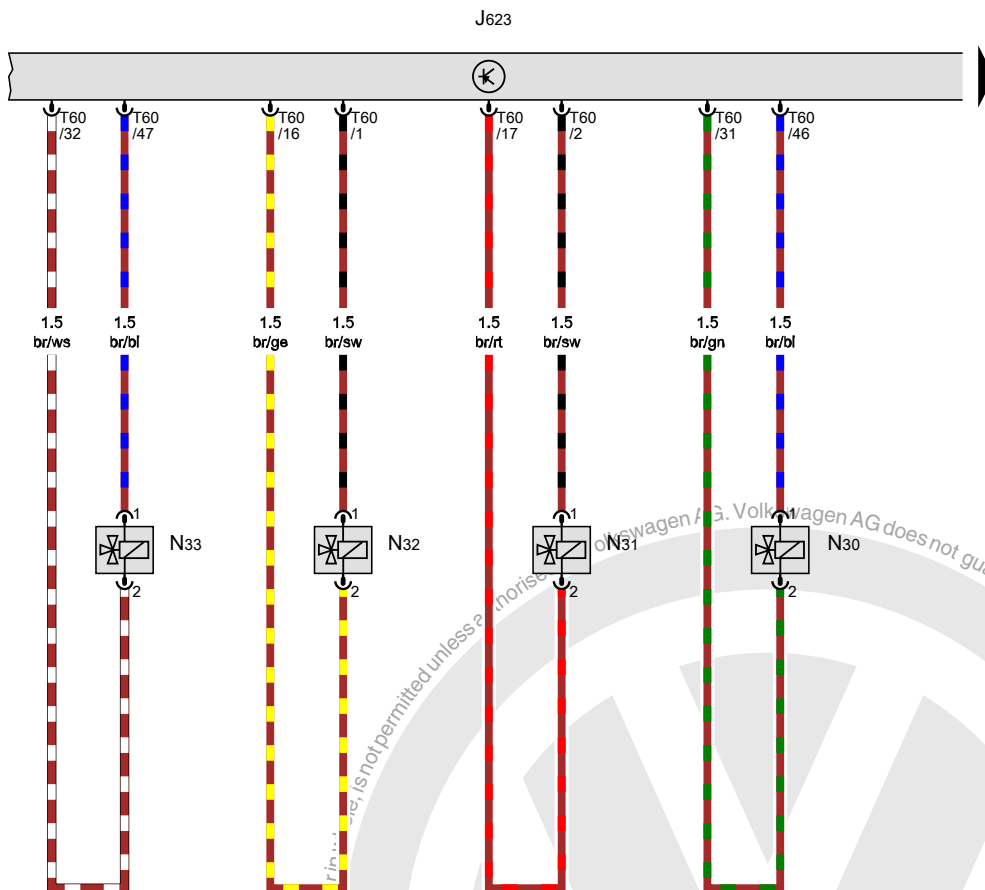
Radiator fan control unit, Engine control unit, Radiator fan, Continued coolant circulation pump

- J293 Radiator fan control unit
- J623 Engine control unit, near battery
- T3w 3-pin connector
- T4 4-pin connector, on radiator cowling
- T18 18-pin connector, near engine control unit
- T60 60-pin connector
- T94a 94-pin connector
- V7 Radiator fan
- V51 Continued coolant circulation pump

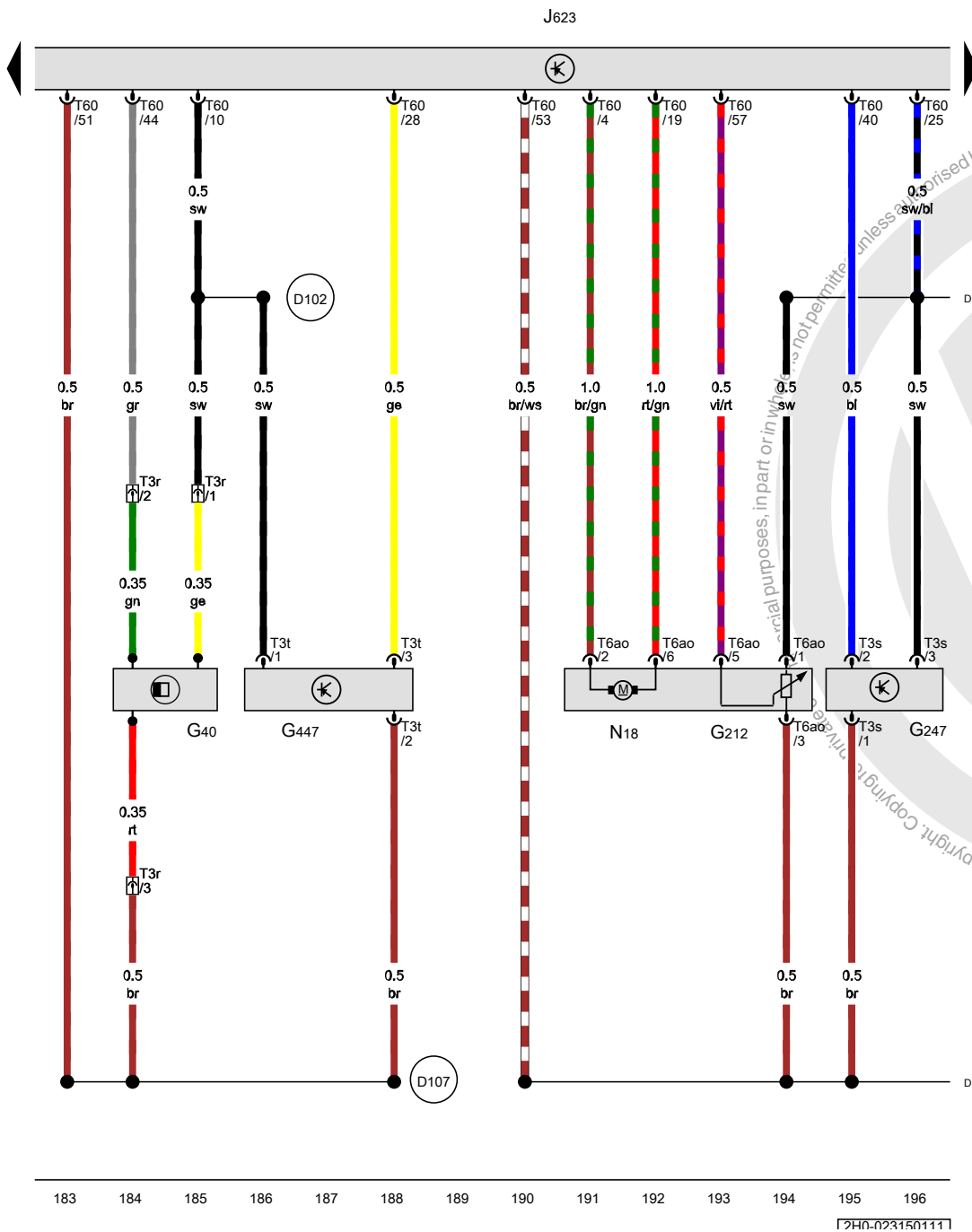
- 375 Earth connection 10, in main wiring harness
- 655 Earth point, on left headlight
- B613 Connection 41, in main wiring harness
- \* Only for countries with hot climate

Engine control unit, Injector, cylinder 1, Injector, cylinder 2,  
Injector, cylinder 3, Injector, cylinder 4

J623 Engine control unit, near battery  
N30 Injector, cylinder 1  
N31 Injector, cylinder 2  
N32 Injector, cylinder 3  
N33 Injector, cylinder 4  
T60 60-pin connector



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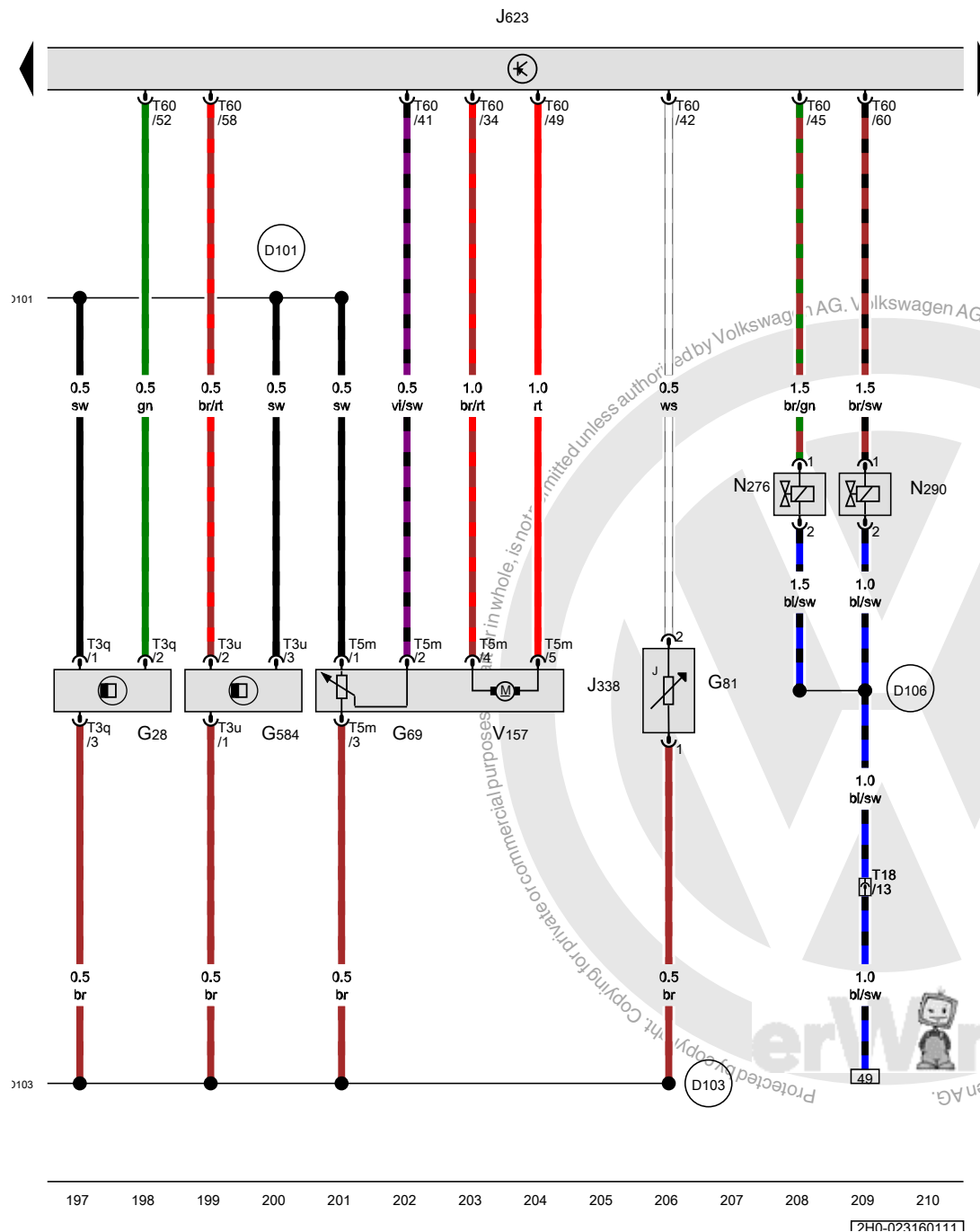
Hall sender, Exhaust gas recirculation potentiometer, Fuel pressure sender, Charge pressure sender 2, Engine control unit, Exhaust gas recirculation valve

- G40 Hall sender
- G212 Exhaust gas recirculation potentiometer
- G247 Fuel pressure sender
- G447 Charge pressure sender 2, on turbocharger air recirculation valve
- J623 Engine control unit, near battery
- N18 Exhaust gas recirculation valve
- T3r 3-pin connector, on front of engine
- T3s 3-pin connector
- T3t 3-pin connector
- T6ao 6-pin connector
- T60 60-pin connector

- D101 Connection 1 in engine compartment wiring harness
- D102 Connection 2 in engine compartment wiring harness
- D103 Connection 3 in engine compartment wiring harness
- D107 Connection 5 in engine compartment wiring harness

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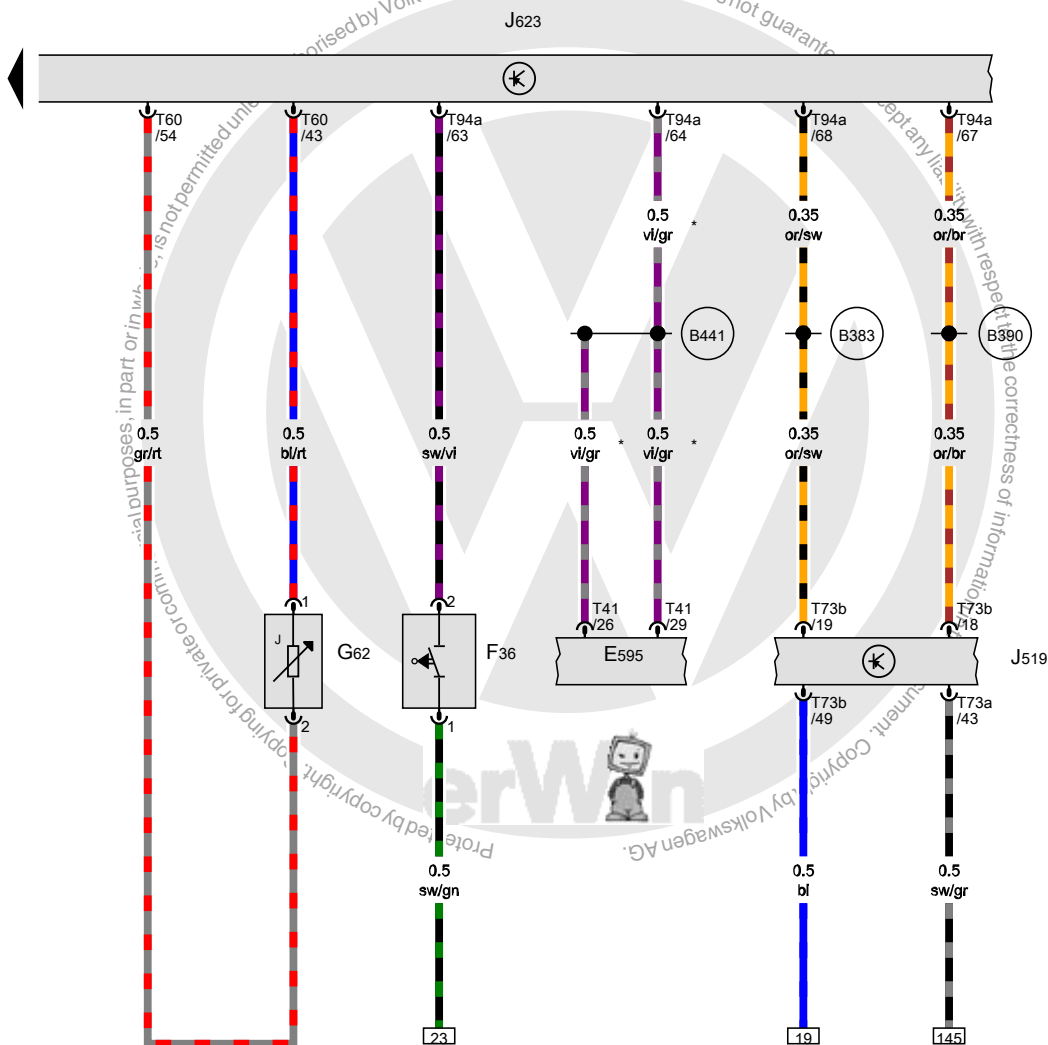




Engine speed sender, Throttle valve potentiometer, Fuel temperature sender, Regulating flap potentiometer, Throttle valve module, Engine control unit, Fuel pressure regulating valve, Fuel metering valve, Intake manifold flap motor

- G28 Engine speed sender
- G69 Throttle valve potentiometer
- G81 Fuel temperature sender
- G584 Regulating flap potentiometer
- J338 Throttle valve module
- N276 Fuel pressure regulating valve
- N290 Fuel metering valve
- T18 Intake manifold flap motor

- D101 Connection 1 in engine compartment wiring harness
- D103 Connection 3 in engine compartment wiring harness
- D106 Connection 4 in engine compartment wiring harness



Clutch pedal switch, Coolant temperature sender, Onboard supply control unit, Engine control unit

- E595 Steering column combination switch
- F36 Clutch pedal switch
- G62 Coolant temperature sender
- J519 Onboard supply control unit
- J623 Engine control unit, near battery
- T41 41-pin connector
- T60 60-pin connector
- T73a 73-pin connector
- T73b 73-pin connector
- T94a 94-pin connector

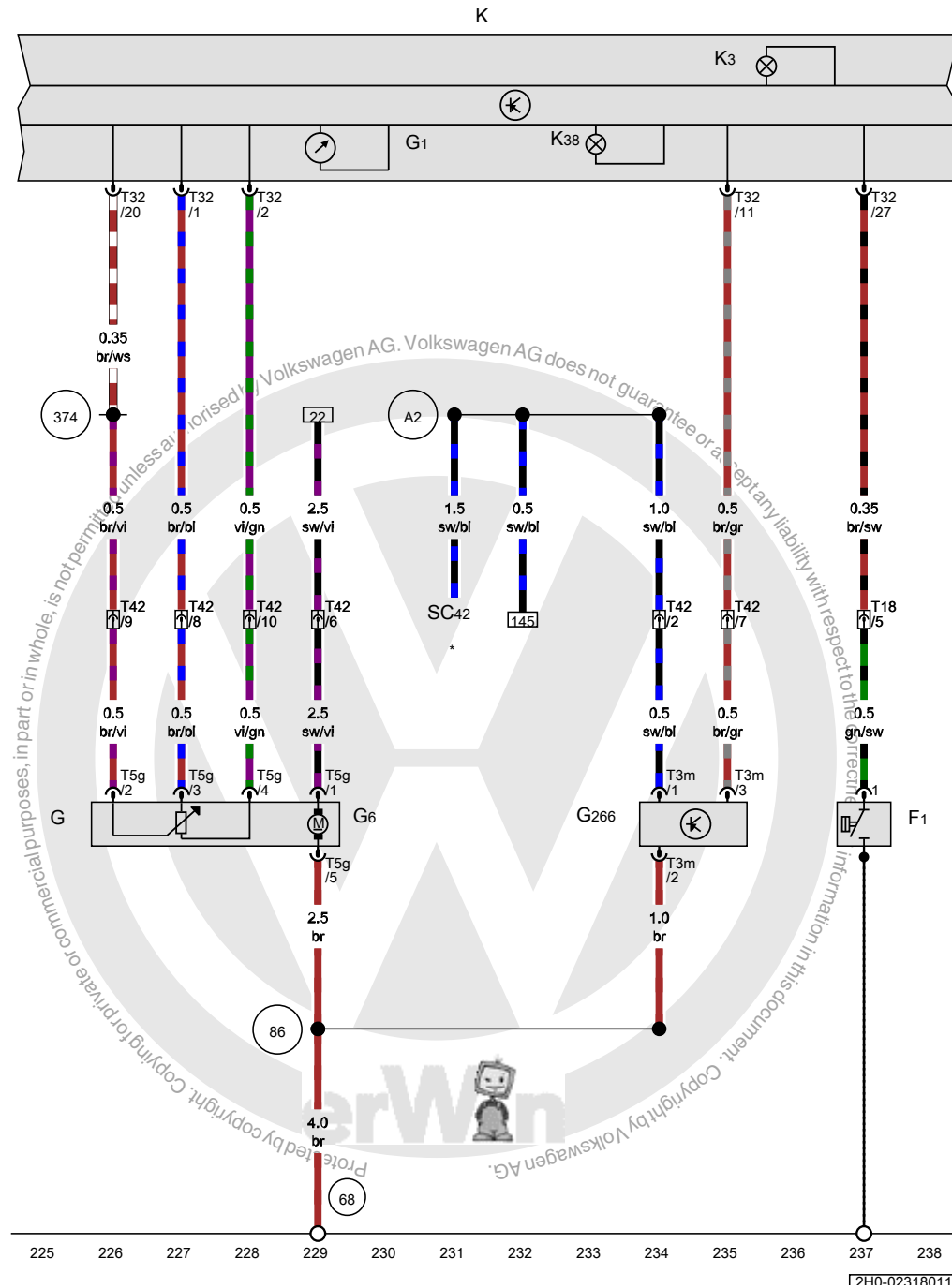
B383 Connection 1 (powertrain CAN bus, high), in main wiring harness

B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

B441 Connection (CCS), in main wiring harness

\* Only models with cruise control system (CCS)

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Oil pressure switch, Fuel system pressurisation pump, Oil level and oil temperature sender, Dash panel insert

- |      |  |
|------|--|
| F1   | Oil pressure switch                        |
| G    | Fuel gauge sender                          |
| G1   | Fuel gauge                                 |
| G6   | Fuel system pressurisation pump            |
| G266 | Oil level and oil temperature sender       |
| K    | Dash panel insert                          |
| K3   | Oil pressure warning lamp                  |
| K38  | Oil level warning lamp                     |
| SC42 | Fuse 42 on fuse holder C                   |
| T3m  | 3-pin connector                            |
| T5g  | 5-pin connector                            |
| T18  | 18-pin connector, near engine control unit |
| T32  | 32-pin connector                           |
| T42  | 42-pin connector, near handbrake lever     |

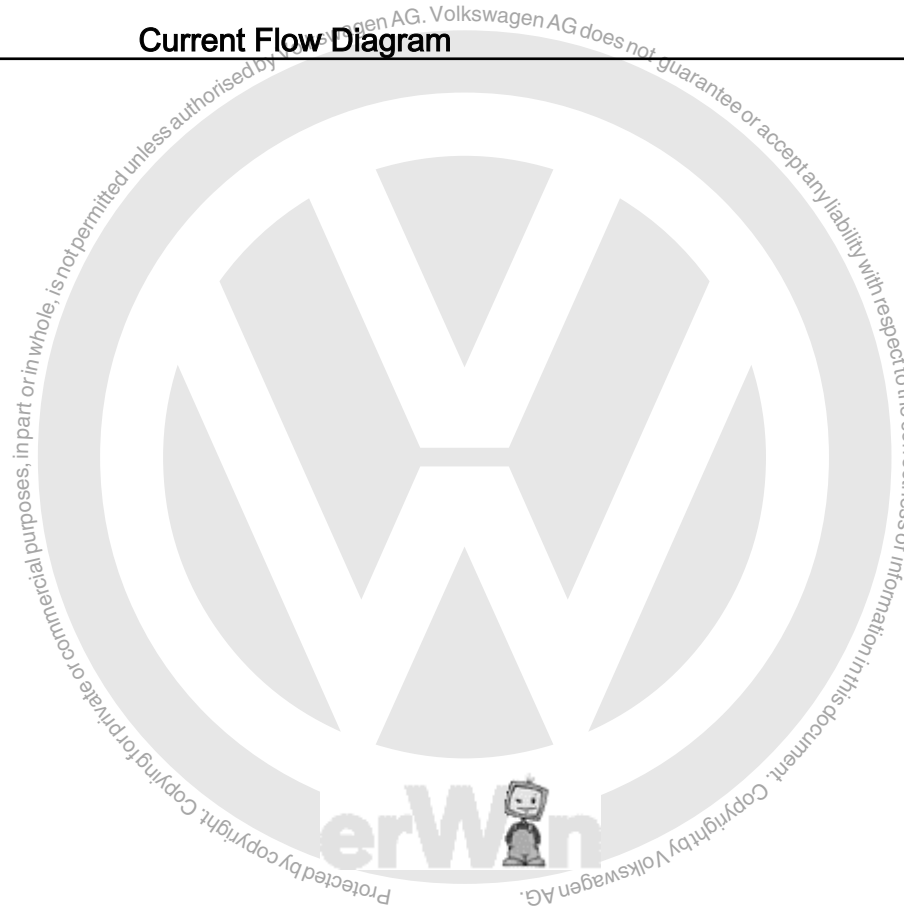
- 68 Earth point, on left of rear cross member
  - 86 Earth connection 1, in rear wiring harness
  - 374 Earth connection 9, in main wiring harness
  - A2 Positive connection (15), in dash panel wiring
- \* see applicable current flow diagram for fuse

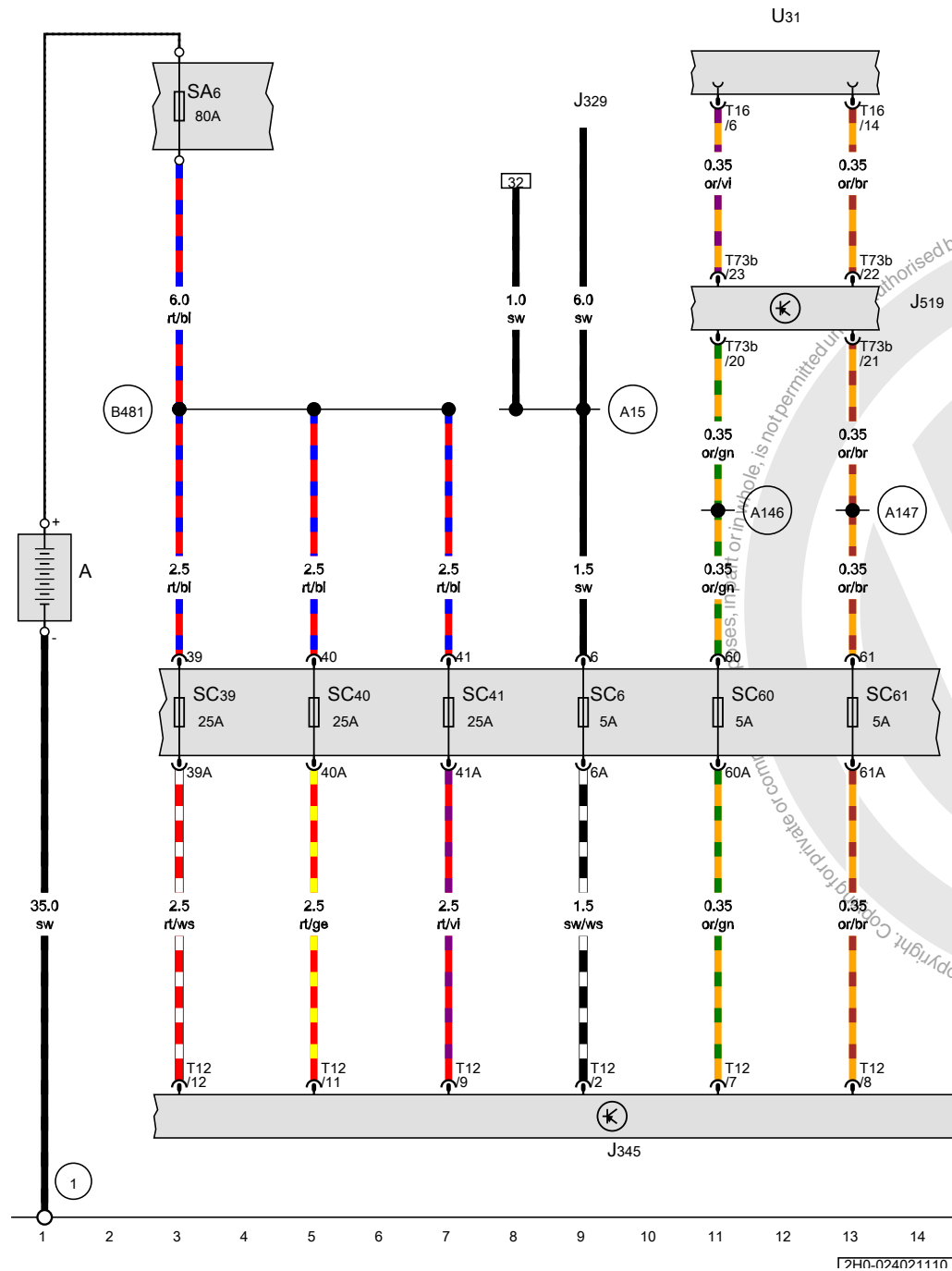
\* see applicable current flow diagram for fuse assignment

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## Preparation for trailer coupling , (LOR)

From September 2009





**Battery, Trailer detector control unit, Fuse 6 on fuse holder C, Fuse 6 in fuse holder A, Fuse 39 on fuse holder C, Fuse 40 on fuse holder C, Fuse 41 on fuse holder C, Diagnostic connection**

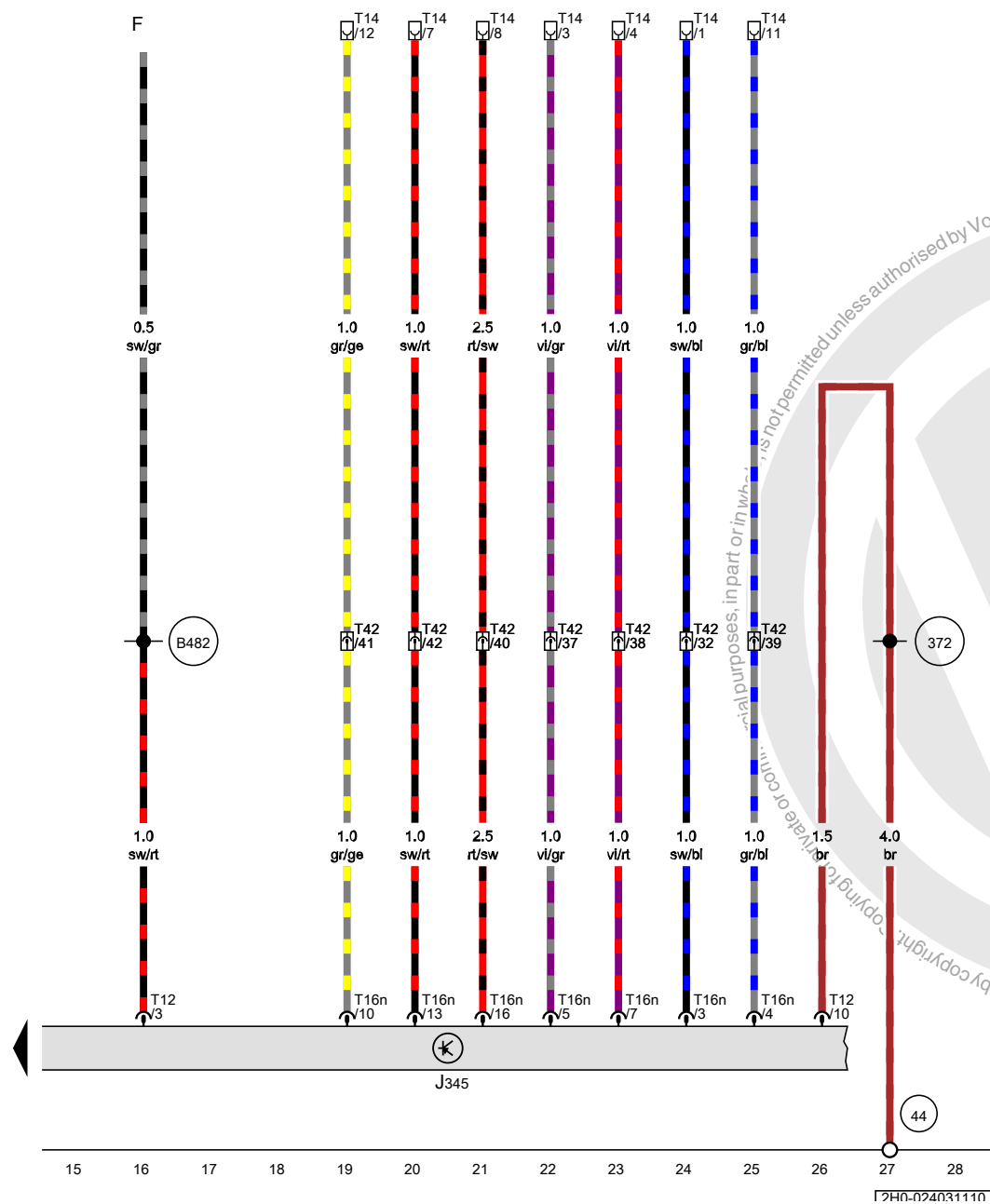
- |      |  |
|------|--|
| A    | Battery  |
| J329 | Terminal 15 voltage supply relay                                     |
| J345 | Trailer detector control unit, in centre under dash panel            |
| J519 | Onboard supply control unit, near driver side A-pillar               |
| SC6  | Fuse 6 on fuse holder C  |
| SA6  | Fuse 6 in fuse holder A  |
| SC39 | Fuse 39 on fuse holder C   |
| SC40 | Fuse 40 on fuse holder C   |
| SC41 | Fuse 41 on fuse holder C   |
| SC60 | Fuse 60 on fuse holder C   |
| SC61 | Fuse 61 on fuse holder C   |
| T12  | 12-pin connector   |
| T16  | 16-pin connector   |
| T73b | 73-pin connector   |
| U31  | Diagnostic connection, near driver side A-pillar                     |
| 1    | Earth strap, battery - body  |
| A15  | Positive connection (15), in instrument wiring harness               |
| A146 | Connection (convenience CAN bus, high), in dash panel wiring harness |
| A147 | Connection (convenience CAN bus, low), in dash panel wiring harness  |
| B481 | Connection 17, in main wiring harness                                |

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

Brake light switch, Trailer detector control unit

- F Brake light switch
- J345 Trailer detector control unit, in centre under dash panel
- T12 12-pin connector
- T14 14-pin connector, behind rear bumper on left
- T16n 16-pin connector
- T42 42-pin connector, near handbrake lever

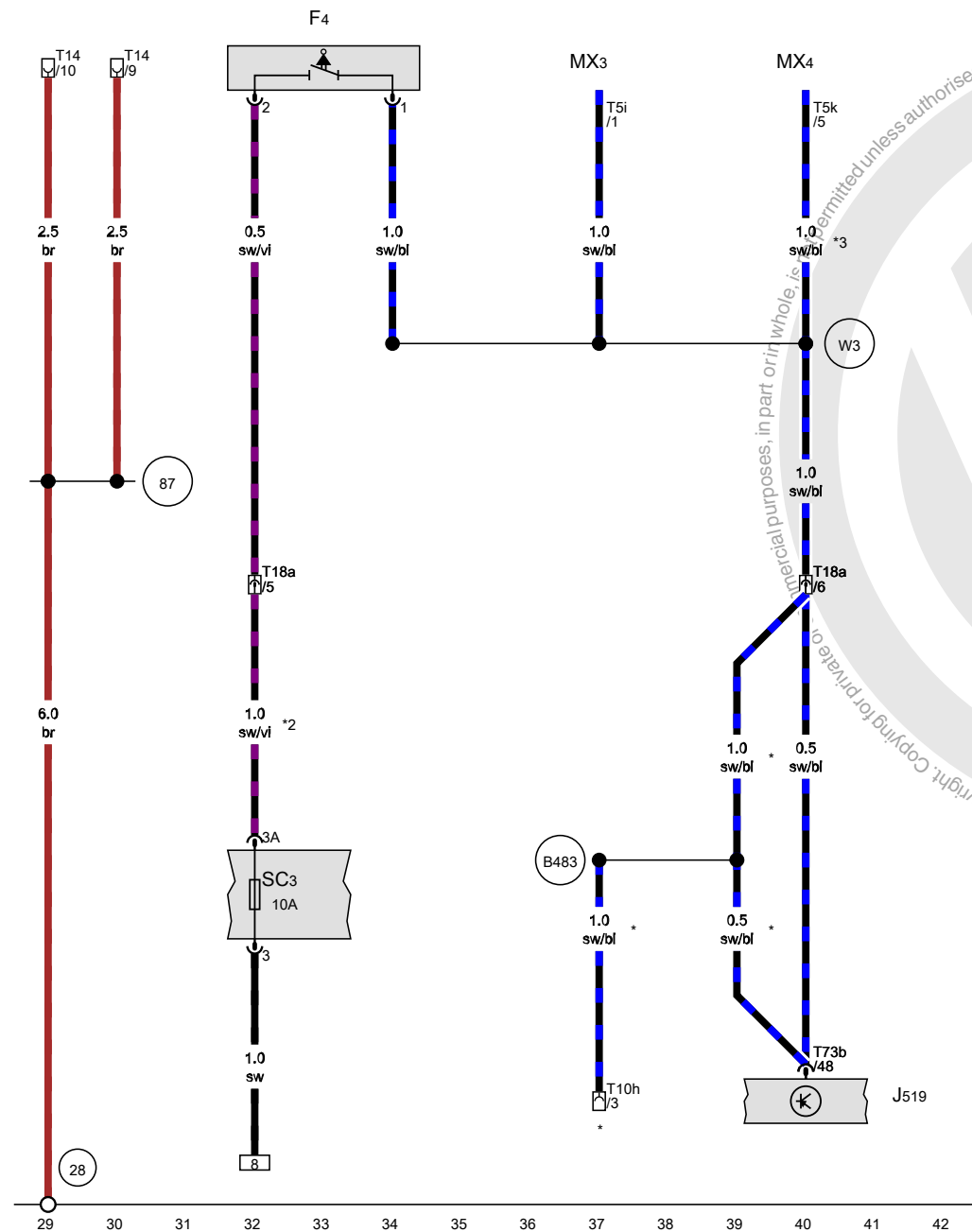
- 44 Earth point, lower part of left A-pillar
- 372 Earth connection 7, in main wiring harness
- B482 Connection 18, in main wiring harness



Reversing light switch, Left tail light, Fuse 3 on fuse holder C

C

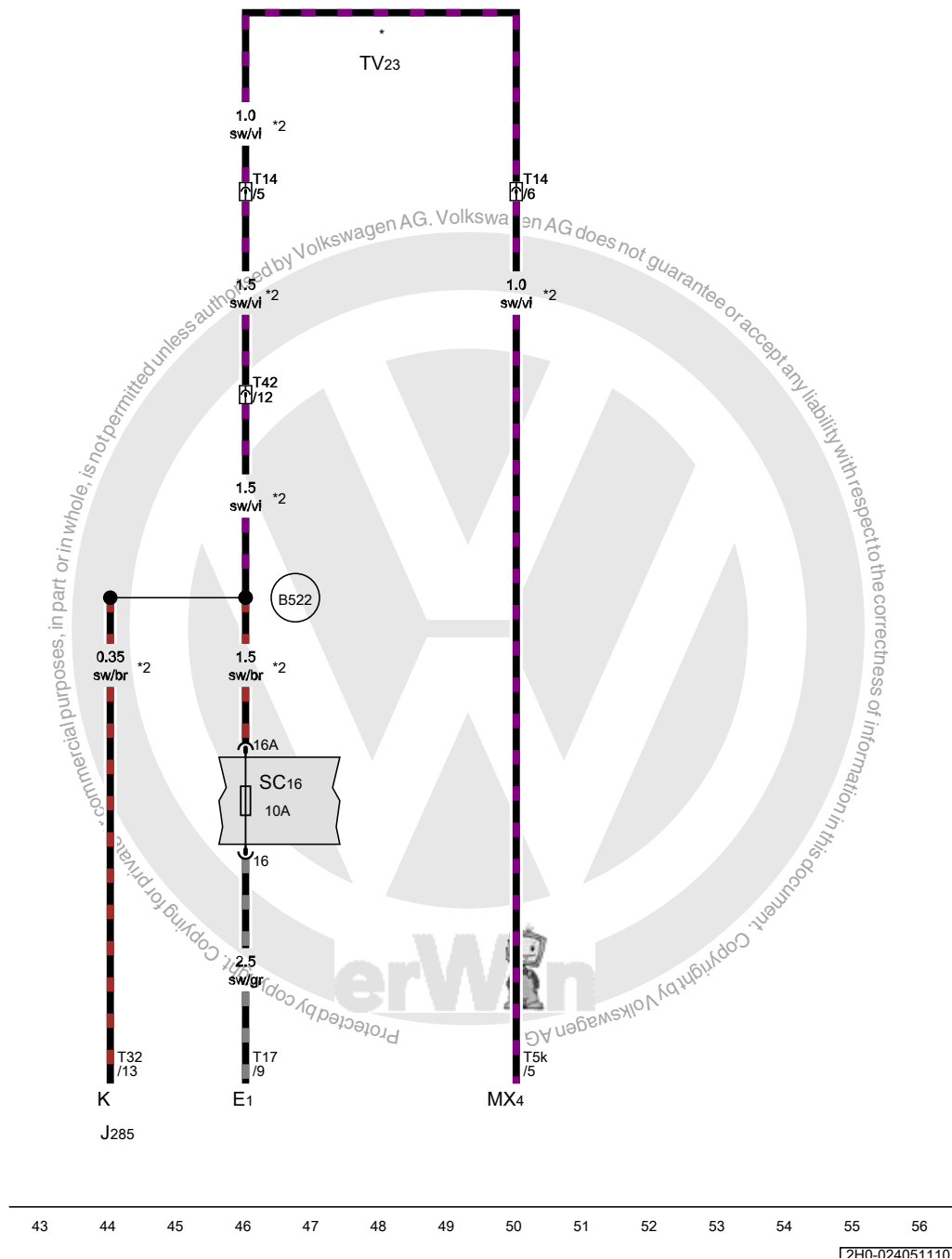
- F4 Reversing light switch
- J519 Onboard supply control unit
- MX3 Left tail light
- MX4 Right tail light
- SC3 Fuse 3 on fuse holder C
- T5i 5-pin connector
- T5k 5-pin connector
- T10h 10-pin connector
- T14 14-pin connector, behind rear bumper on left
- T18a 18-pin connector, near engine control unit
- T73b 73-pin connector
- 28 Earth point, on bulkhead
- 87 Earth connection 2, in rear wiring harness
- B483 Connection 19, in main wiring harness
- W3 Connection in rear wiring harness
- \* Only models with electric interface for external use
- \*2 see applicable current flow diagram for fuse assignment
- \*3 Only models with no rear fog light



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- ro = red
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- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

Light switch, Dash panel insert, Right tail light

- E1 Light switch
- J285 Control unit in dash panel insert
- K Dash panel insert
- MX4 Right tail light
- SC16 Fuse 16 on fuse holder C
- T5k 5-pin connector
- T14 14-pin connector, behind rear bumper on left
- T17 17-pin connector
- TV23 Push-in bridge
- T32 32-pin connector
- T42 42-pin connector, near handbrake lever
- B522 Connection (FL), in main wiring harness
- \* Only models with preparation for trailer coupling
- \*2 Only models with rear fog lights



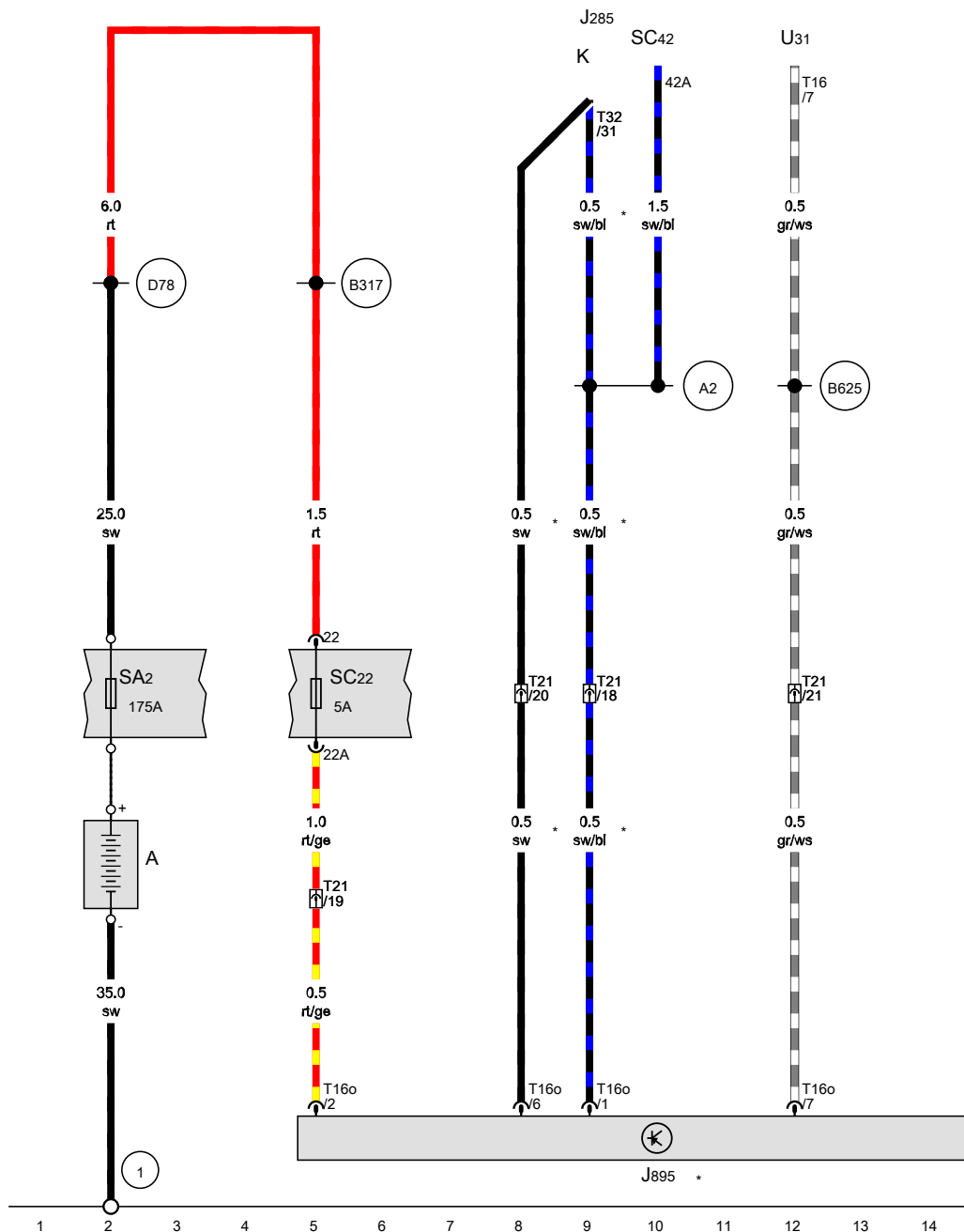
- ws = white
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## Vehicle location system , (B1D)

From December 2009

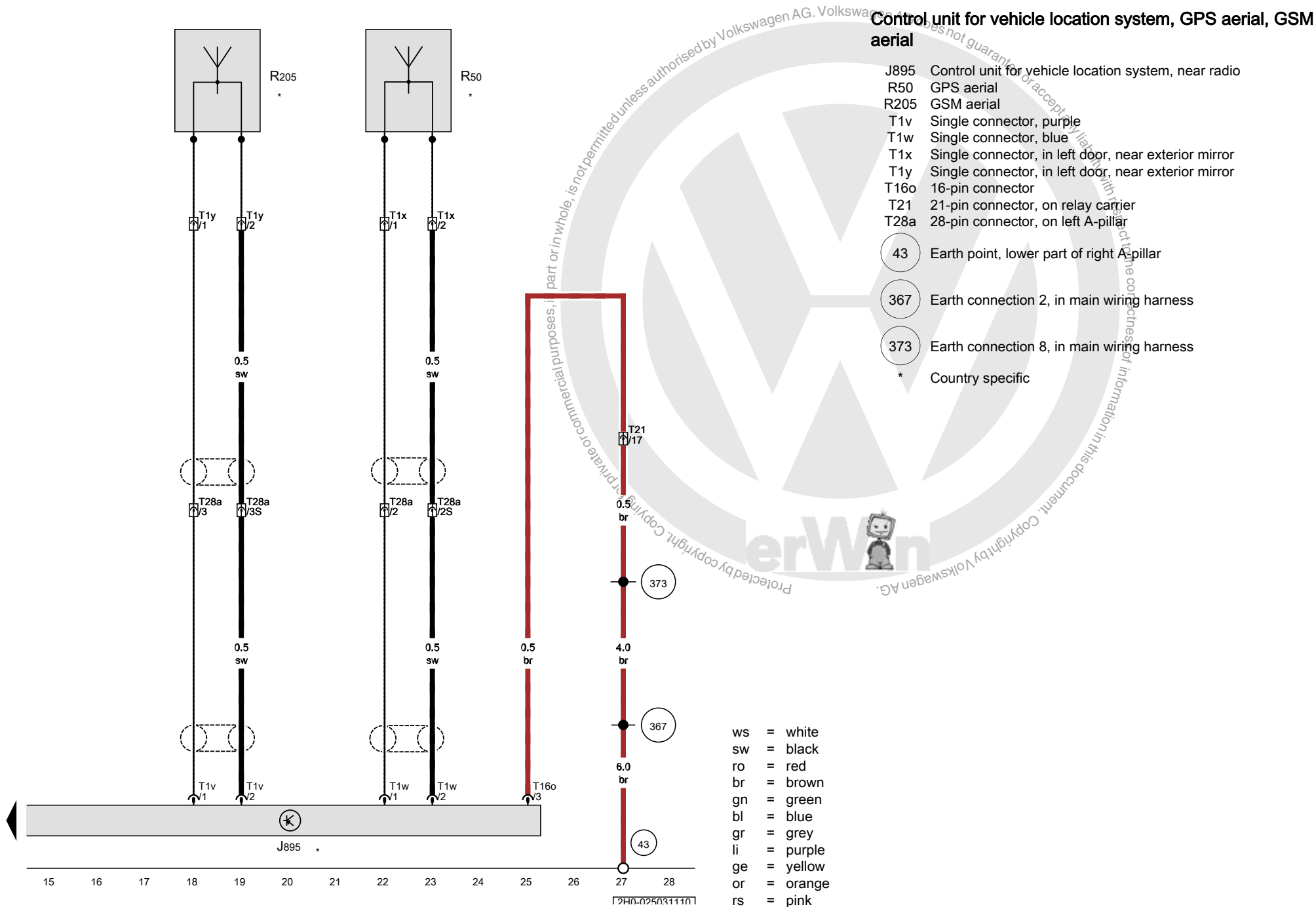




Control unit in dash panel insert, Control unit for vehicle location system, Dash panel insert, Fuse 2 in fuse holder A, Fuse 22 on fuse holder C, Diagnostic connection

- A Battery
- J285 Control unit in dash panel insert
- J895 Control unit for vehicle location system, near radio
- K Dash panel insert
- SA2 Fuse 2 in fuse holder A
- SC22 Fuse 22 on fuse holder C
- SC42 Fuse 42 on fuse holder C
- T16 16-pin connector
- T16o 16-pin connector
- T21 21-pin connector, on relay carrier
- T32 32-pin connector
- U31 Diagnostic connection
- 1 Earth strap, battery - body
- A2 Positive connection (15), in dash panel wiring harness
- B317 Positive connection 3 (30a) in main wiring harness
- B625 Connection (K-diagnosis wire), in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness
- \* Country specific

ws = white  
 sw = black  
 ro = red  
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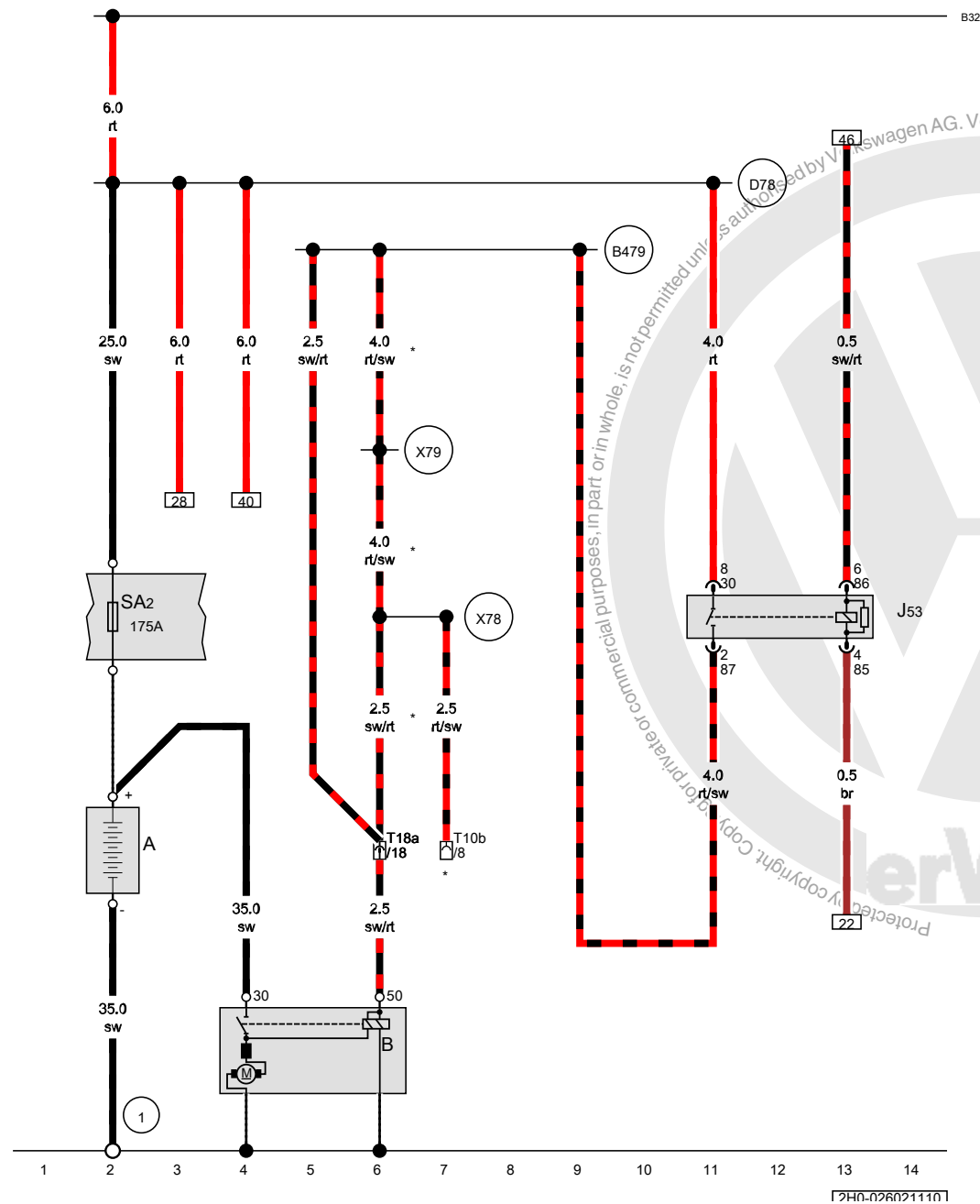
**Basic equipment, right-hand drive**

From December 2009

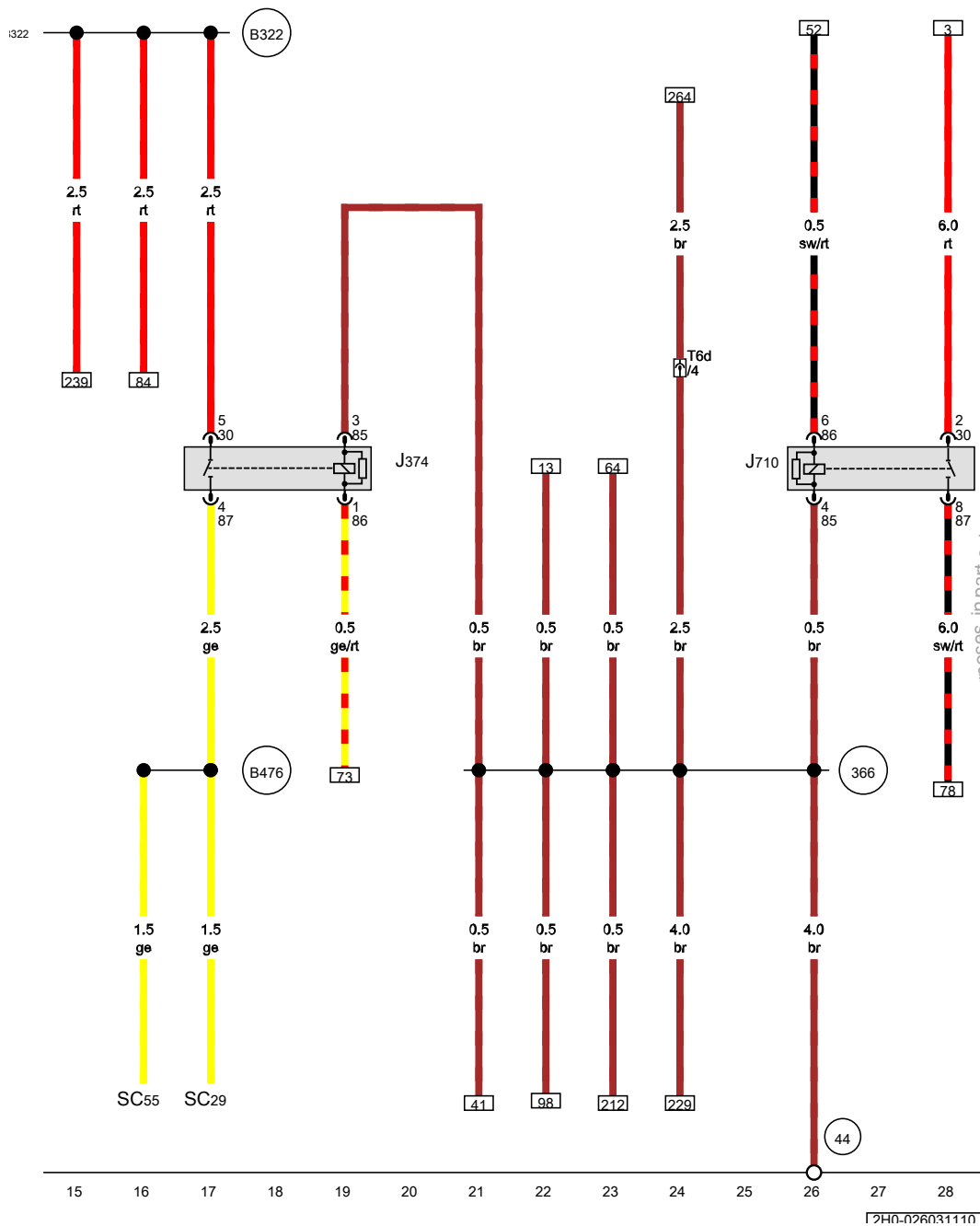


Battery, Starter

- A Battery
- B Starter
- J53 Starter motor relay
- SA2 Fuse 2 in fuse holder A
- T10b 10-pin connector, in left footwell, near centre console
- T18a 18-pin connector, near engine control unit
- 1 Earth strap, battery - body
- B322 Positive connection 8 (30a) in main wiring harness
- B479 Connection 15, in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness
- X78 Connection 1 in optional equipment wiring harness
- X79 Connection 2 in optional equipment wiring harness
- \* Only models with electric interface for external use



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### Terminal 58b relief relay, Voltage supply relay 2

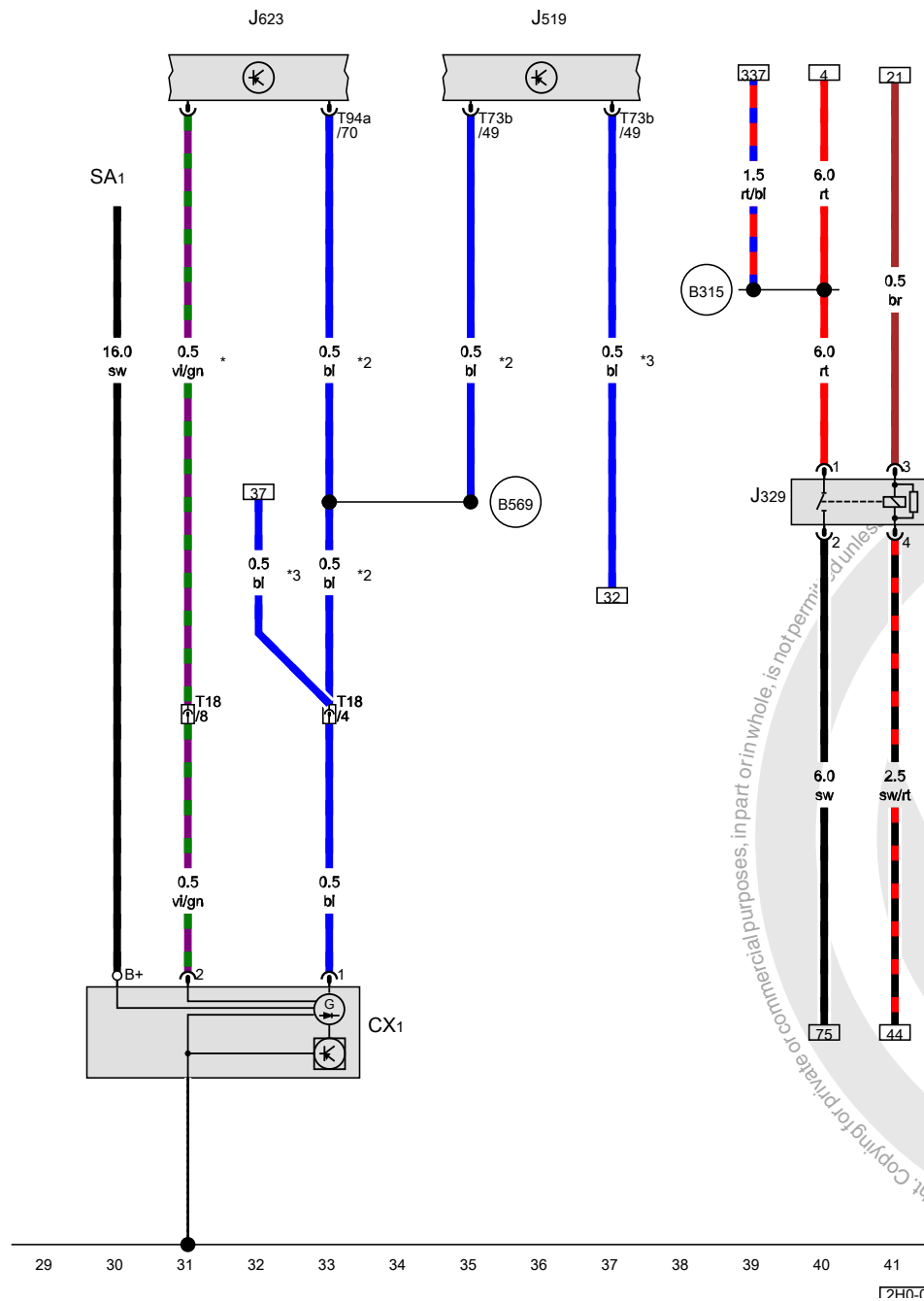
- J374 Terminal 58b relief relay
- J710 Voltage supply relay 2
- SC29 Fuse 29 on fuse holder C
- SC55 Fuse 55 on fuse holder C
- T6d 6-pin connector, on relay carrier

- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- B322 Positive connection 8 (30a) in main wiring harness
- B476 Connection 12, in main wiring harness

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- gn = green
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Alternator with voltage regulator, Terminal 15 voltage supply relay

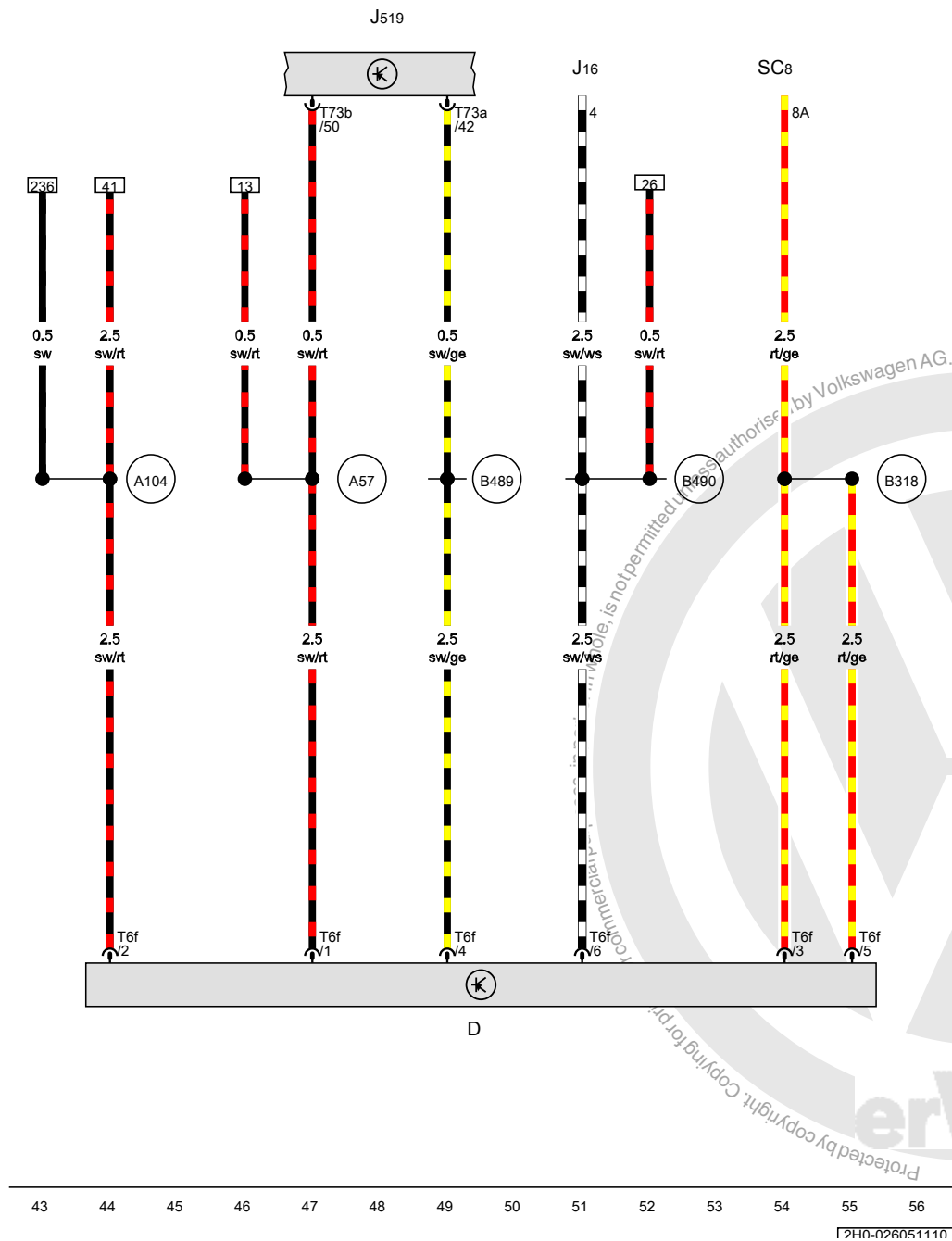
- CX1 Alternator with voltage regulator
- J329 Terminal 15 voltage supply relay
- J519 Onboard supply control unit
- J623 Engine control unit
- SA1 Fuse 1 in fuse holder A
- T18 18-pin connector, near engine control unit
- T73b 73-pin connector
- T94a 94-pin connector
- B315 Positive connection 1 (30a) in main wiring harness
- B569 Connection 36, in main wiring harness
- \* see applicable current flow diagram for engine
- \*2 Only models with diesel engines
- \*3 Only models with petrol engine



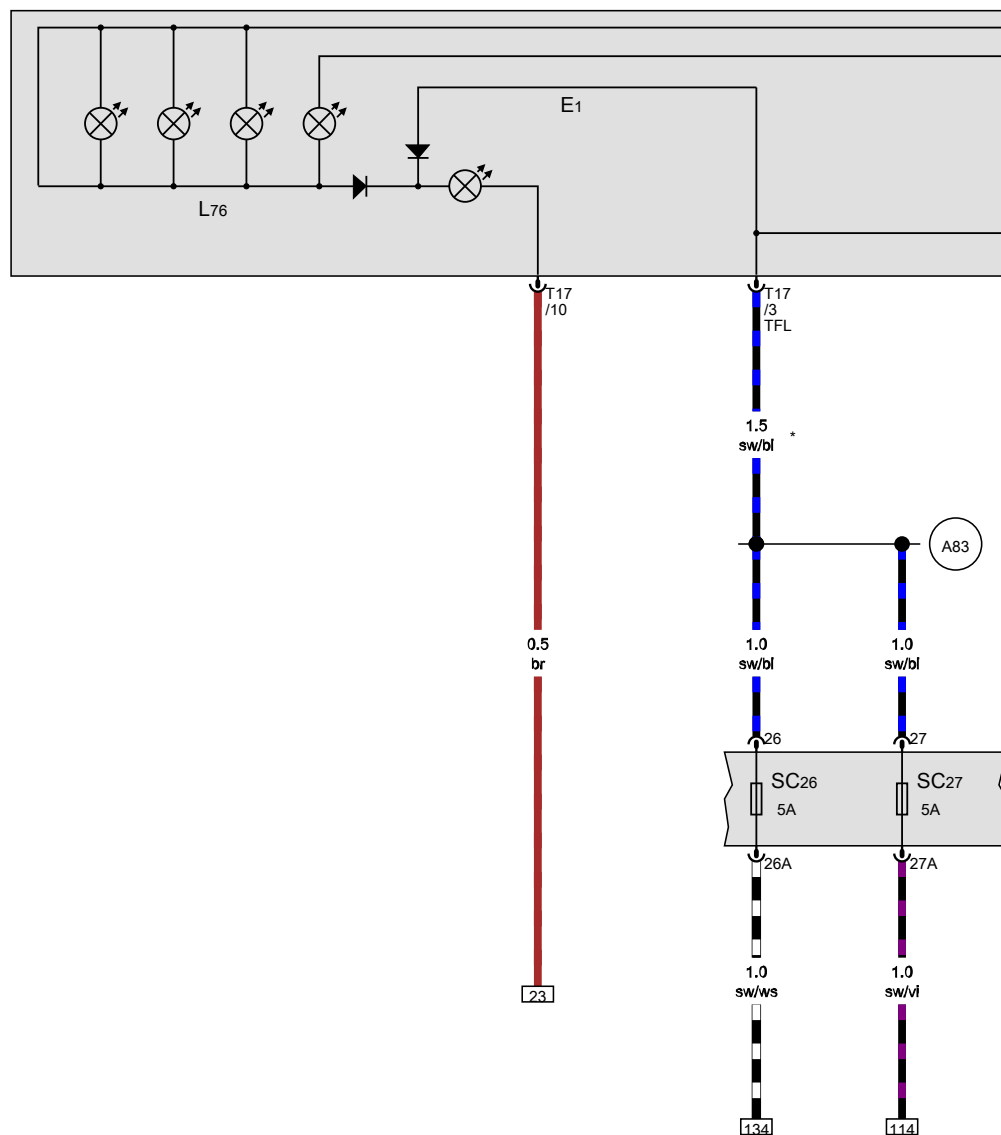
Ignition/starter switch, Onboard supply control unit

- D Ignition/starter switch
- J16 Current supply relay
- J519 Onboard supply control unit
- SC8 Fuse 8 on fuse holder C
- T6f 6-pin connector
- T73a 73-pin connector
- T73b 73-pin connector

- A57 Positive connection 3 (30), in dash panel wiring harness
- A104 Positive connection 2 (15), in dash panel wiring harness
- B318 Positive connection 4 (30a) in main wiring harness
- B489 Connection 25, in main wiring harness
- B490 Connection 26, in main wiring harness







Light switch, Button illumination bulb, Fuse 26 on fuse holder C, Fuse 27 on fuse holder C

E1 Light switch

L76 Button illumination bulb

SC26 Fuse 26 on fuse holder C

SC27 Fuse 27 on fuse holder C

T17 17-pin connector

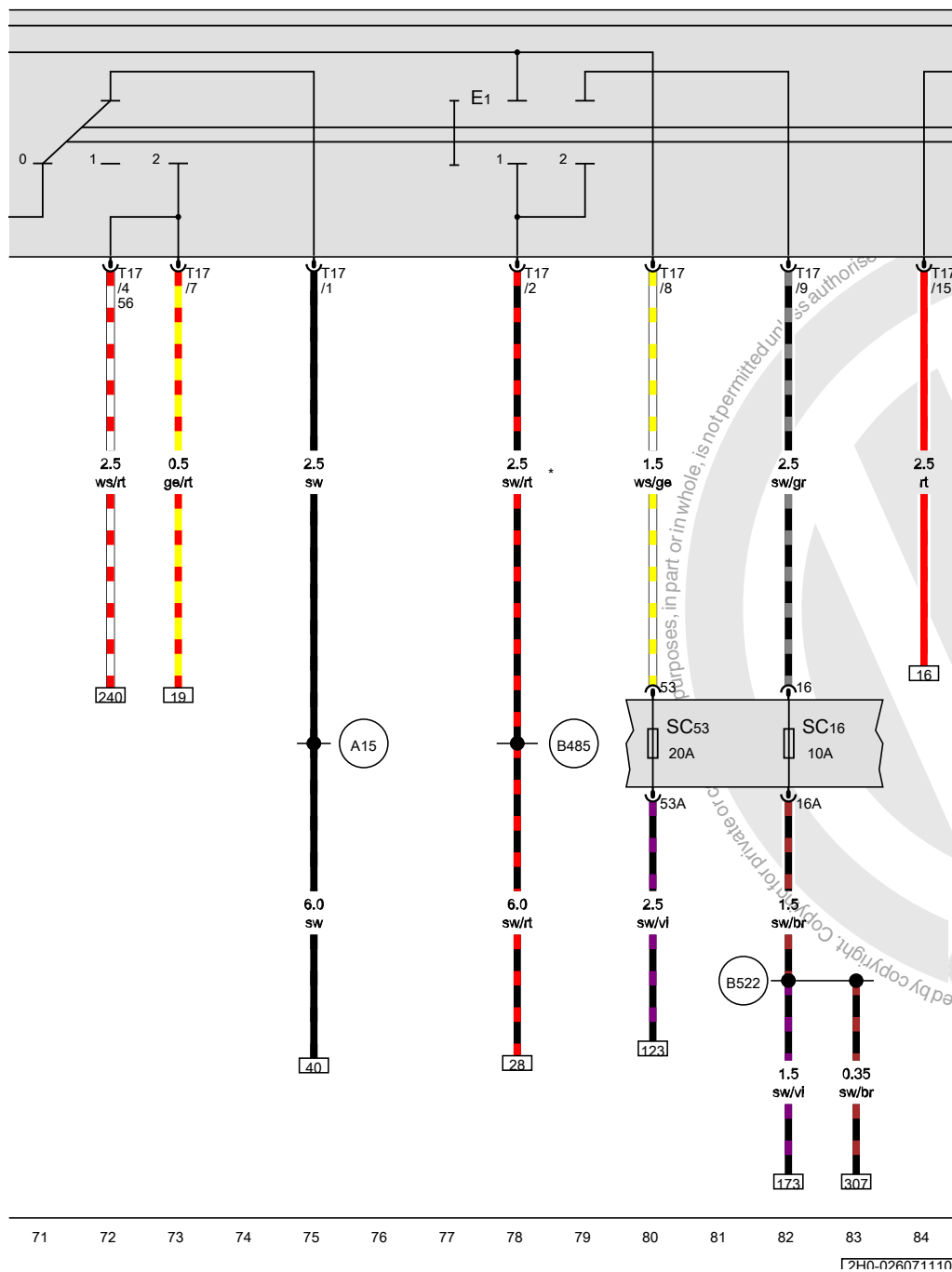
A83 Connection (daytime running lights), in dash panel wiring harness

\* Only models with daytime running lights

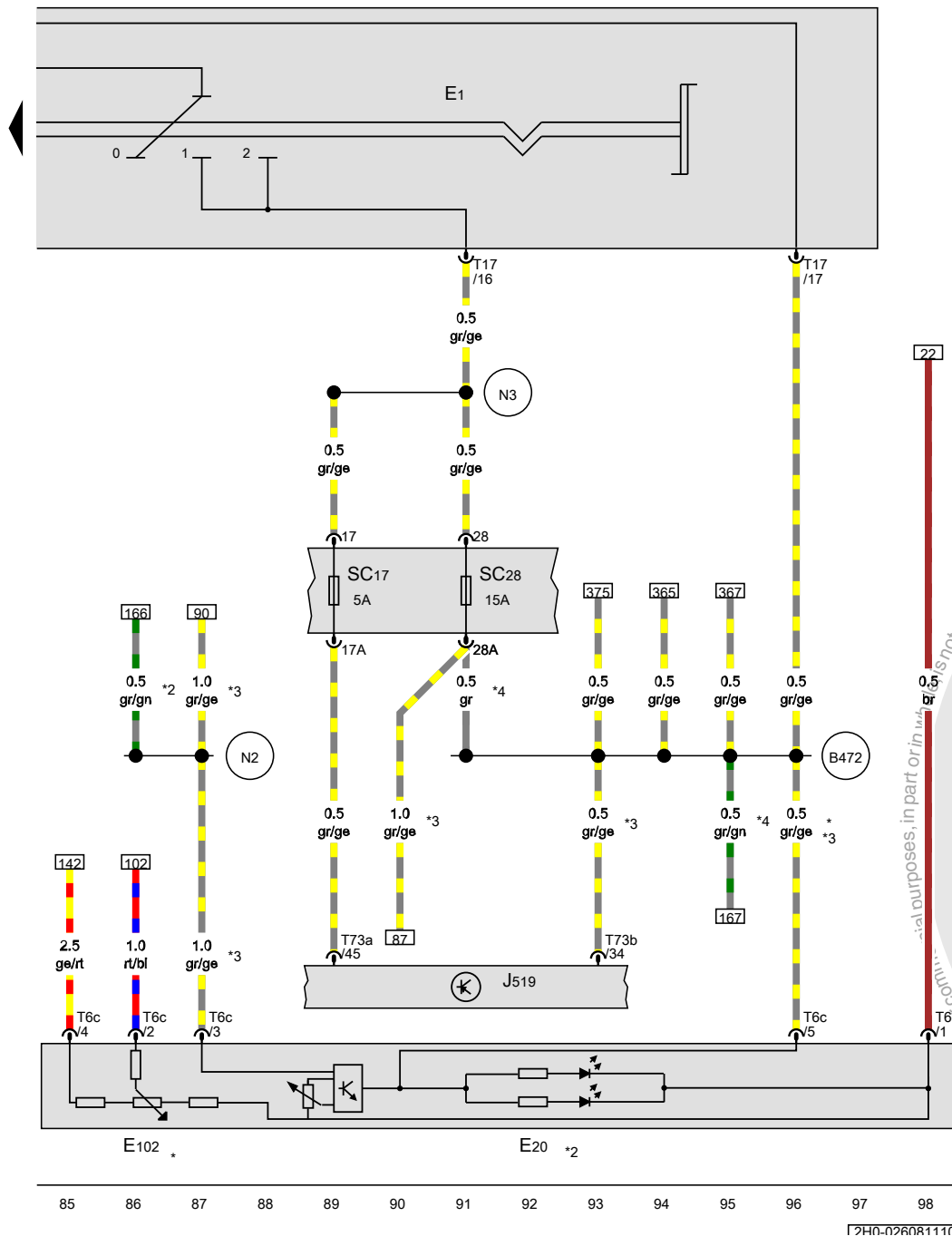
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sw = black  
ro = red  
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Light switch, Fuse 16 on fuse holder C, Fuse 53 on fuse holder C

- E1 Light switch
- SC16 Fuse 16 on fuse holder C
- SC53 Fuse 53 on fuse holder C
- T17 17-pin connector
- A15 Positive connection (15), in instrument wiring harness
- B485 Connection 21, in main wiring harness
- B522 Connection (FL), in main wiring harness
- \* Only models with fog lights



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Light switch, Switch and instrument illumination regulator,  
Headlight range control regulator, Onboard supply control  
unit, Fuse 28 on fuse holder C

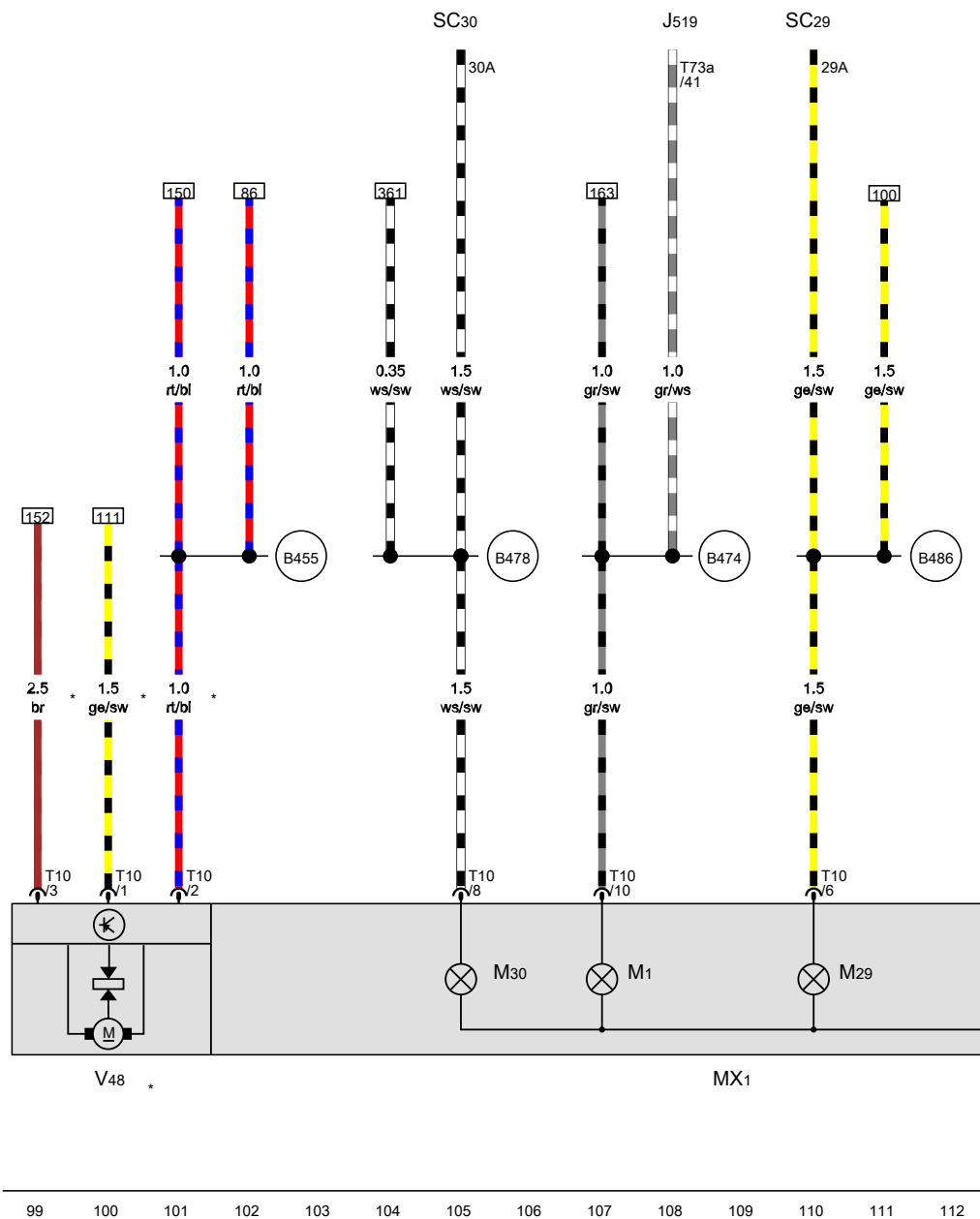
- |      |  |
|------|--|
| E1   | Light switch                                 |
| E20  | Switch and instrument illumination regulator |
| E102 | Headlight range control regulator            |
| J519 | Onboard supply control unit                  |
| SC17 | Fuse 17 on fuse holder C                     |
| SC28 | Fuse 28 on fuse holder C                     |
| T6c  | 6-pin connector                              |
| T17  | 17-pin connector                             |
| T73a | 73-pin connector                             |
| T73b | 73-pin connector                             |

- B472** Connection 8, in main wiring harness
- N2** Connection 1, in headlight range control wiring harness
- N3** Connection 2, in headlight range control wiring harness
- \* Only models with headlight range control
  - \*2 Only models with dimmable instrument illumination
  - \*3 Only models with Highline equipment
  - \*4 Only models with no dimmable instrument illumination

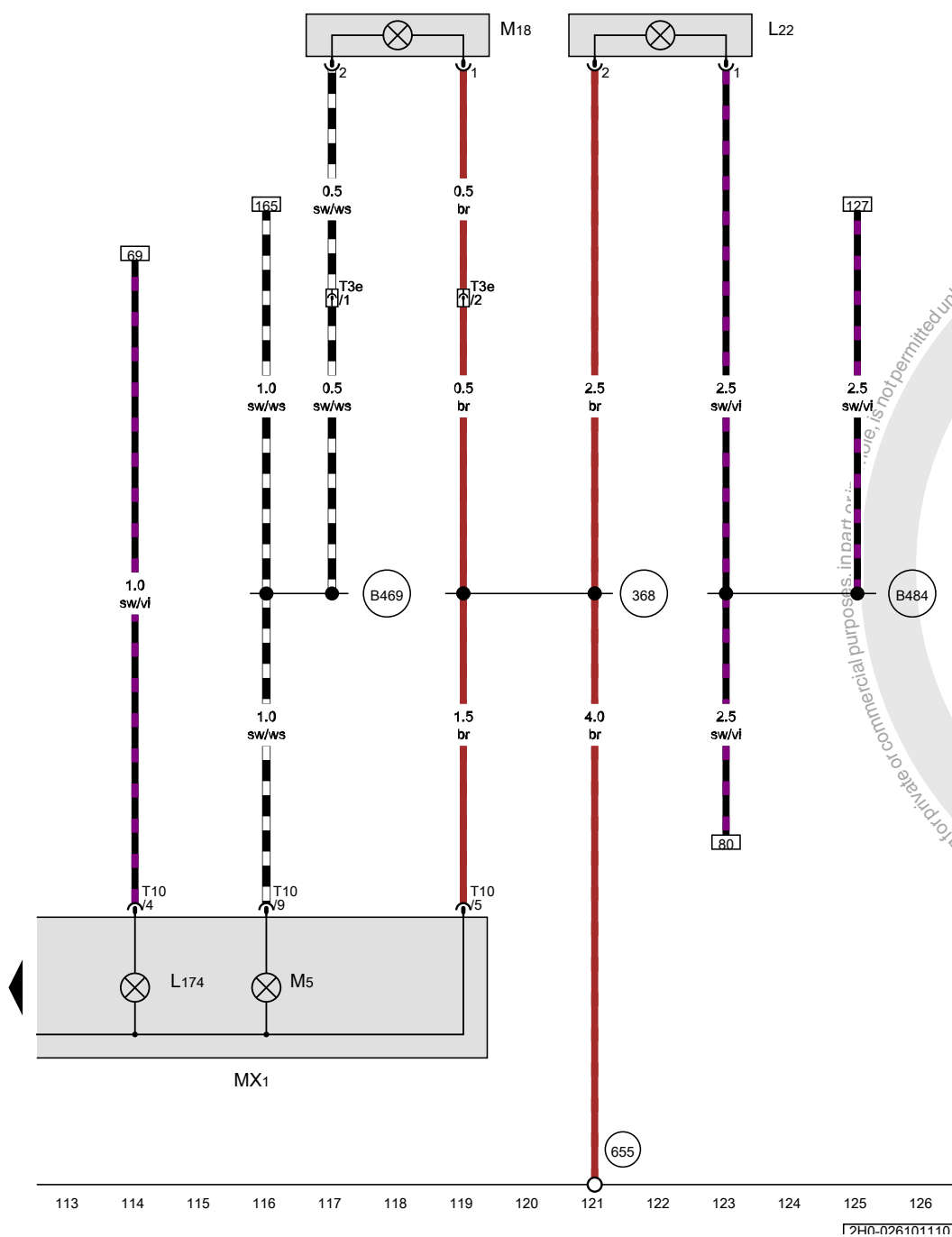
- ws = white  
sw = black  
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Front left headlight

- J519 Onboard supply control unit
- MX1 Front left headlight
- M1 Left side light bulb
- M29 Left headlight dipped beam bulb
- M30 Left headlight main beam bulb
- SC29 Fuse 29 on fuse holder C
- SC30 Fuse 30 on fuse holder C
- T10 10-pin connector
- T73a 73-pin connector
- V48 Left headlight range control motor
- B455 Connection (HRC), in main wiring harness
- B474 Connection 10, in main wiring harness
- B478 Connection 14, in main wiring harness
- B486 Connection 22, in main wiring harness
- \* Only models with headlight range control



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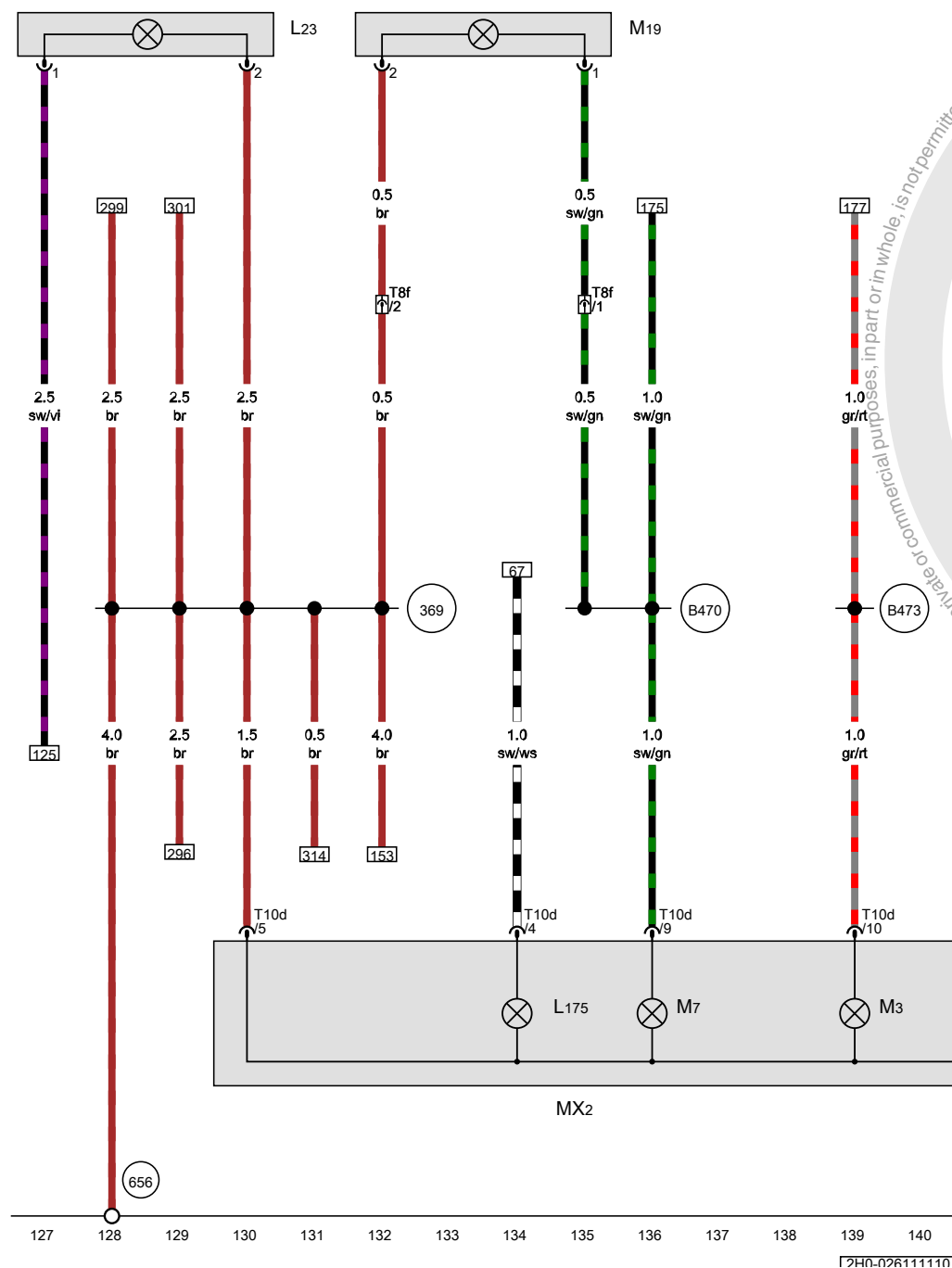


Left fog light bulb, Front left headlight, Left turn signal repeater bulb

- L22 Left fog light bulb
- L174 Left daytime running light bulb
- MX1 Front left headlight
- M5 Front left turn signal bulb
- M18 Left turn signal repeater bulb
- T3e 3-pin connector, in rear left of engine compartment
- T10 10-pin connector

- (368) Earth connection 3, in main wiring harness
- (655) Earth point, on left headlight, on left on bulkhead
- (B469) Connection 5, in main wiring harness
- (B484) Connection 20, in main wiring harness

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## Right fog light bulb, Front right headlight, Right turn signal repeater bulb

- L23 Right fog light bulb
- L175 Right daytime running light bulb
- MX2 Front right headlight
- M3 Right side light bulb
- M7 Front right turn signal bulb
- M19 Right turn signal repeater bulb
- T8f 8-pin connector, in rear right of engine compartment
- T10d 10-pin connector

- 369 Earth connection 4, in main wiring harness
- 656 Earth point, on right headlight, on right on bulkhead
- B470 Connection 6, in main wiring harness
- B473 Connection 9, in main wiring harness

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- bl = blue
- gr = grey
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- ge = yellow
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- rs = pink

Front right headlight, Fuse 32 on fuse holder C, Fuse 55 on fuse holder C

- MX2 Front right headlight
- M31 Right headlight dipped beam bulb
- M32 Right headlight main beam bulb
- SC32 Fuse 32 on fuse holder C
- SC55 Fuse 55 on fuse holder C
- T10b 10-pin connector, behind dash panel, centre
- T10d 10-pin connector
- V49 Right headlight range control motor

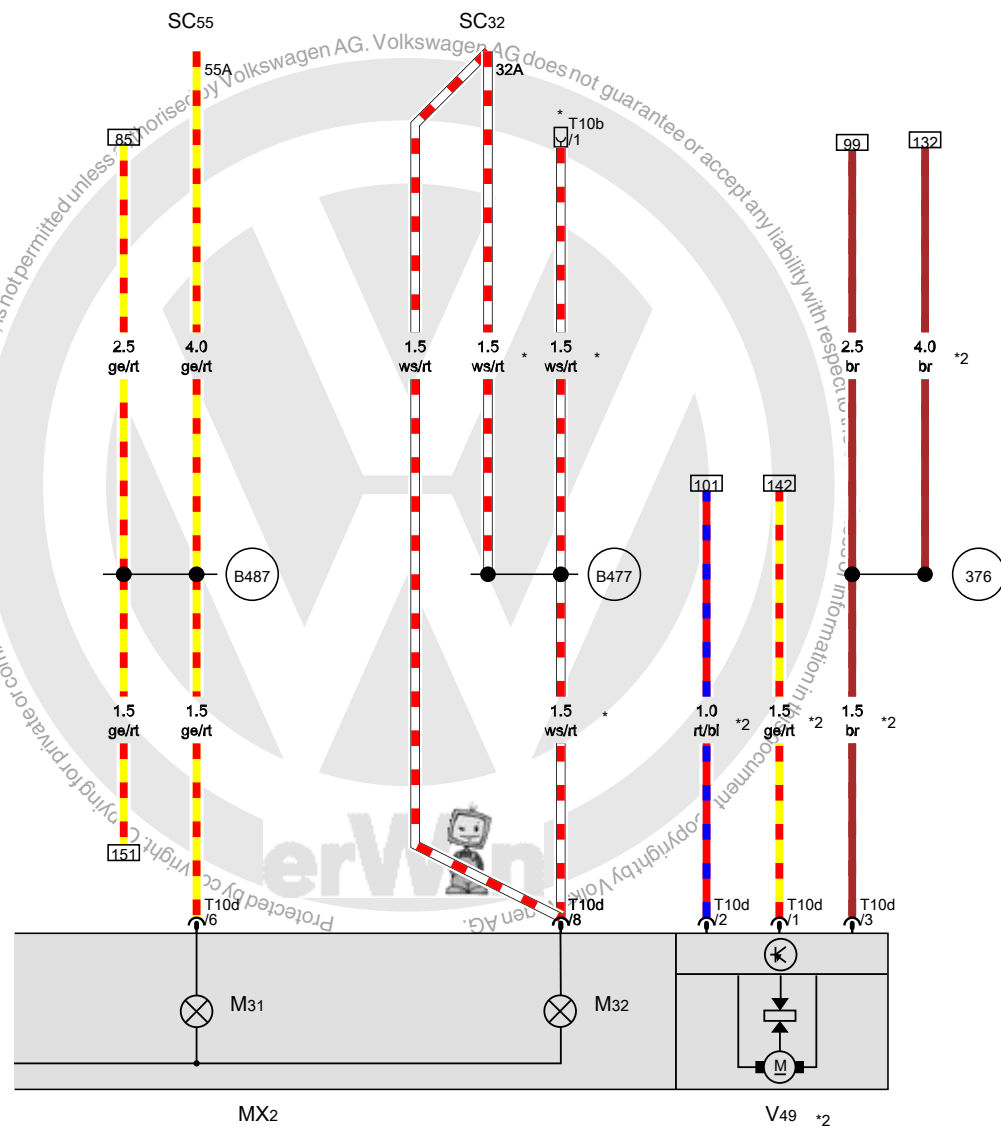
376 Earth connection 11, in main wiring harness

B477 Connection 13, in main wiring harness

B487 Connection 23, in main wiring harness

\* Only models with electric interface for external use

\*2 Only models with headlight range control



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141 142 143 144 145 146 147 148 149 150 151 152 153 154

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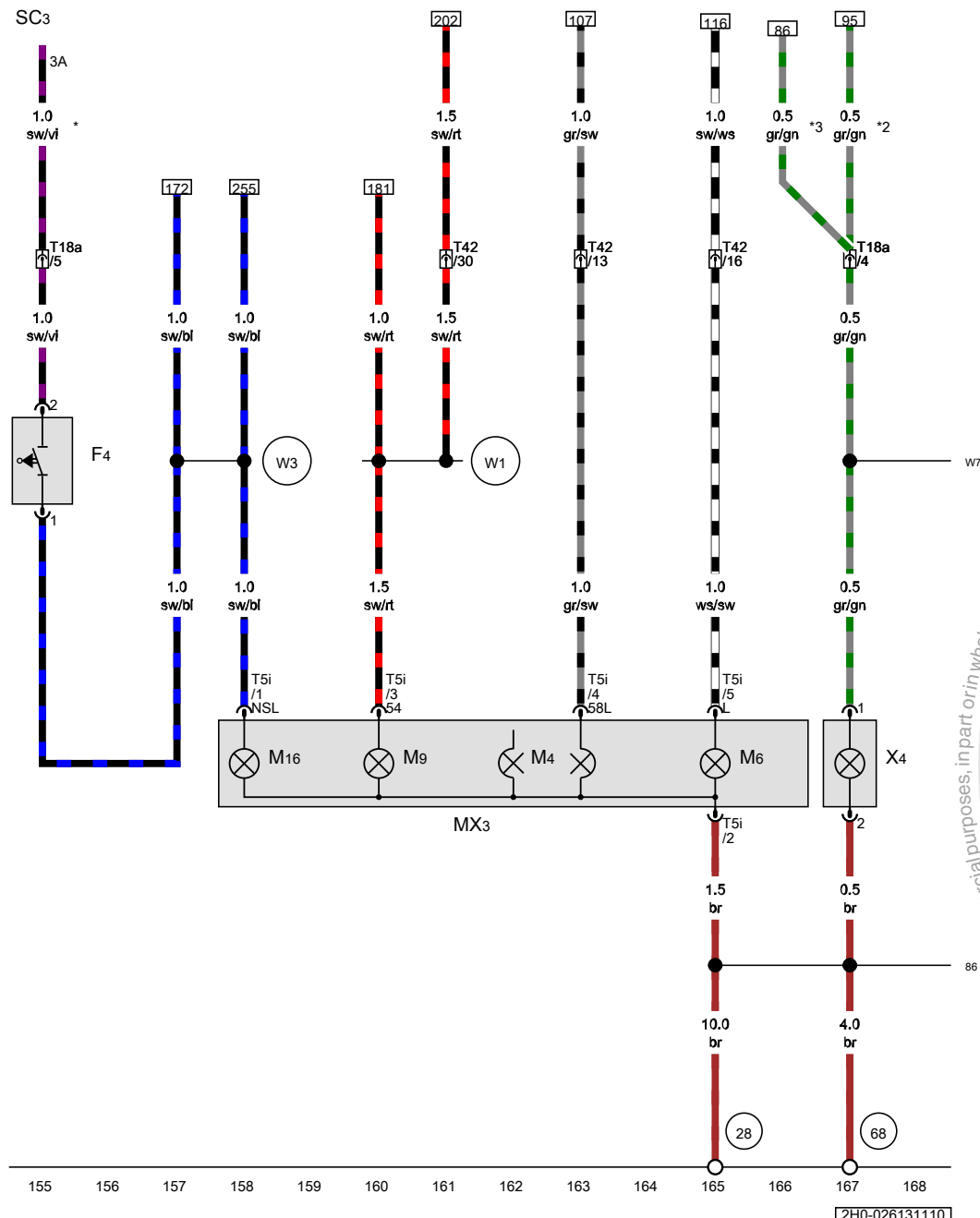
Reversing light switch, Left tail light, Fuse 3 on fuse holder C, Left number plate light

- F4 Reversing light switch
- MX3 Left tail light
- M4 Left tail light bulb
- M6 Rear left turn signal bulb
- M9 Left brake light bulb
- M16 Left reversing light bulb
- SC3 Fuse 3 on fuse holder C
- T5i 5-pin connector
- T18a 18-pin connector, near engine control unit
- T42 42-pin connector, near handbrake lever
- X4 Left number plate light

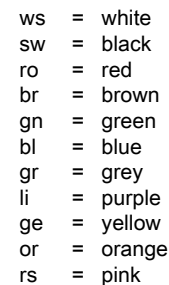
- 28 Earth point, on bulkhead
- 68 Earth point, on left of rear cross member
- 86 Earth connection 1, in rear wiring harness
- W1 Positive connection 1 (54), in rear wiring harness
- W3 Connection in rear wiring harness
- W70 Positive connection 2 (58), in number plate wiring harness

- \* see applicable current flow diagram for fuse assignment
- \*2 Only models with no dimmable instrument illumination
- \*3 Only models with dimmable instrument illumination

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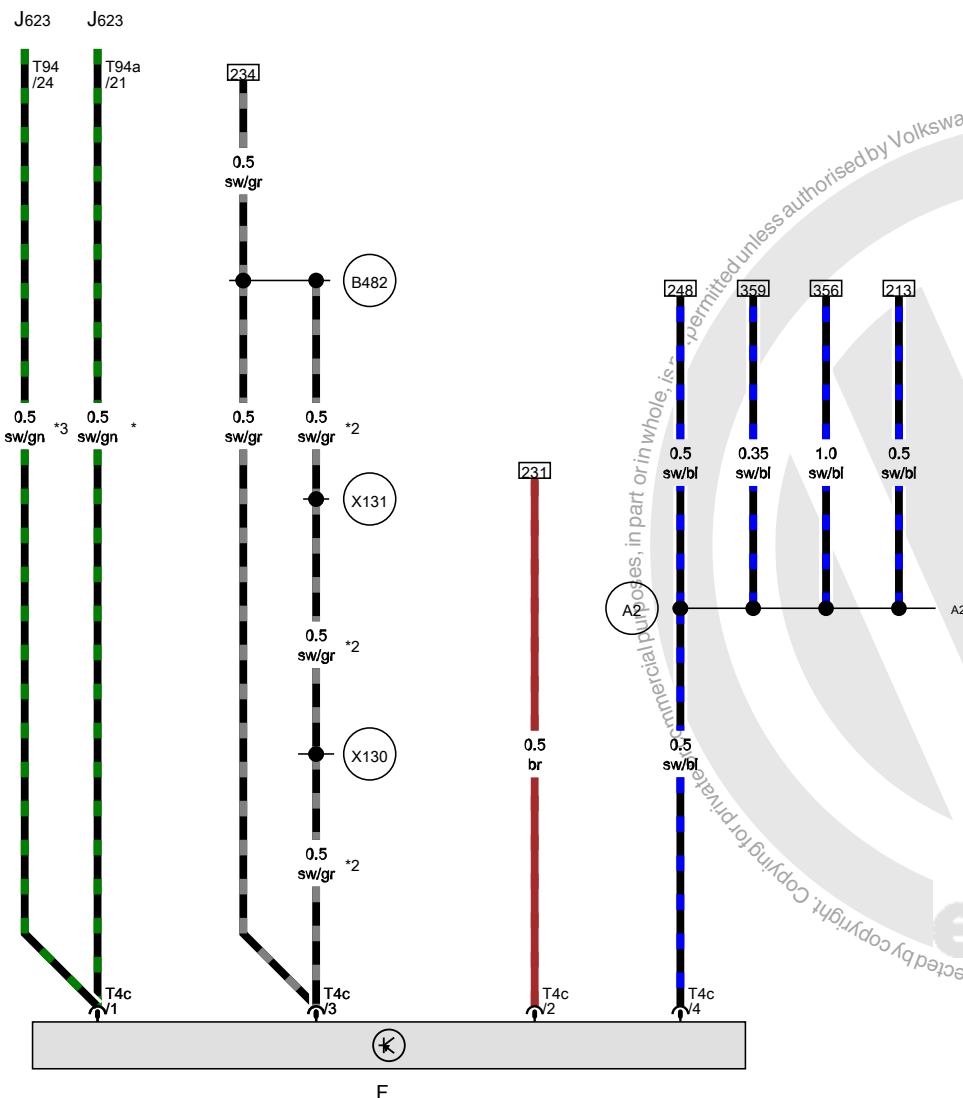
L47	Rear right fog light bulb
M2	Right tail light bulb
MX4	Right tail light
M8	Rear right turn signal bulb
M10	Right brake light bulb
M17	Right reversing light bulb
T5k	5-pin connector
T42	42-pin connector, near handbrake lever
X5	Right number plate light

- |     |  |
|-----|--|
| 86  | Earth connection 1, in rear wiring harness                 |
| W70 | Positive connection 2 (58), in number plate wiring harness |
| *   | According to equipment                                     |
| *2  | Only models with rear fog lights                           |
| *3  | Only models with no rear fog light                         |

### Brake light switch

- F Brake light switch
- J623 Engine control unit
- T4c 4-pin connector
- T94 94-pin connector
- T94a 94-pin connector

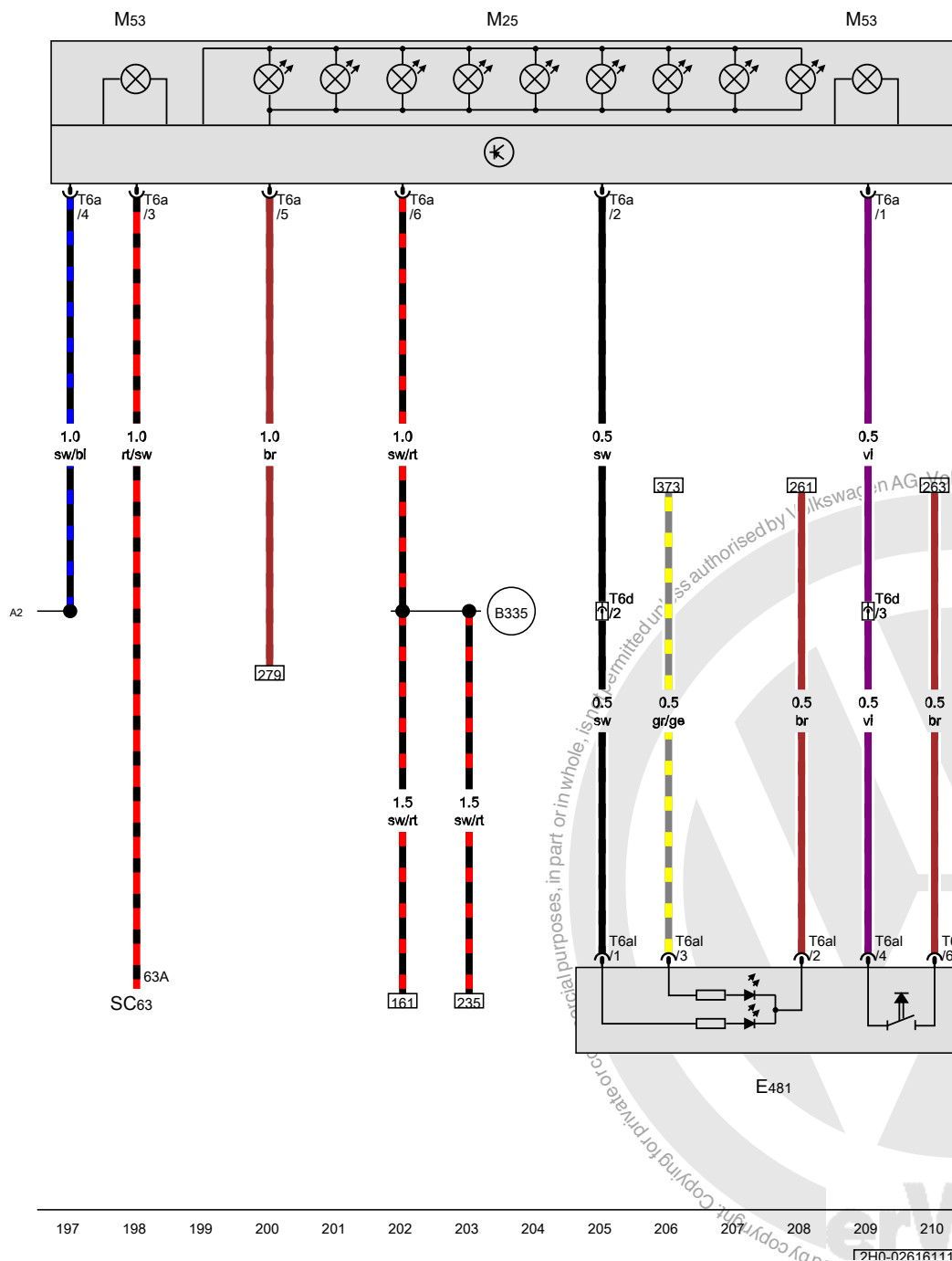
- A2 Positive connection (15), in dash panel wiring harness
- B482 Connection 18, in main wiring harness
- X130 Connection 3, in optional equipment wiring harness
- X131 Connection 4, in optional equipment wiring harness
- \* Contact bridge, only models with diesel engine
- \*2 Only models with electric interface for external use
- \*3 Only models with petrol engine



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183 184 185 186 187 188 189 190 191 192 193 194 195 196

[7H0-026151110]



**Load area illumination switch, Additional brake light bulb, Load area illumination bulb**

- E481 Load area illumination switch, near radio
- M25 Additional brake light bulb
- M53 Load area illumination bulb
- SC63 Fuse 63 on fuse holder C
- T6a 6-pin connector
- T6al 6-pin connector
- T6d 6-pin connector, on relay carrier

A2 Positive connection (15), in dash panel wiring harness

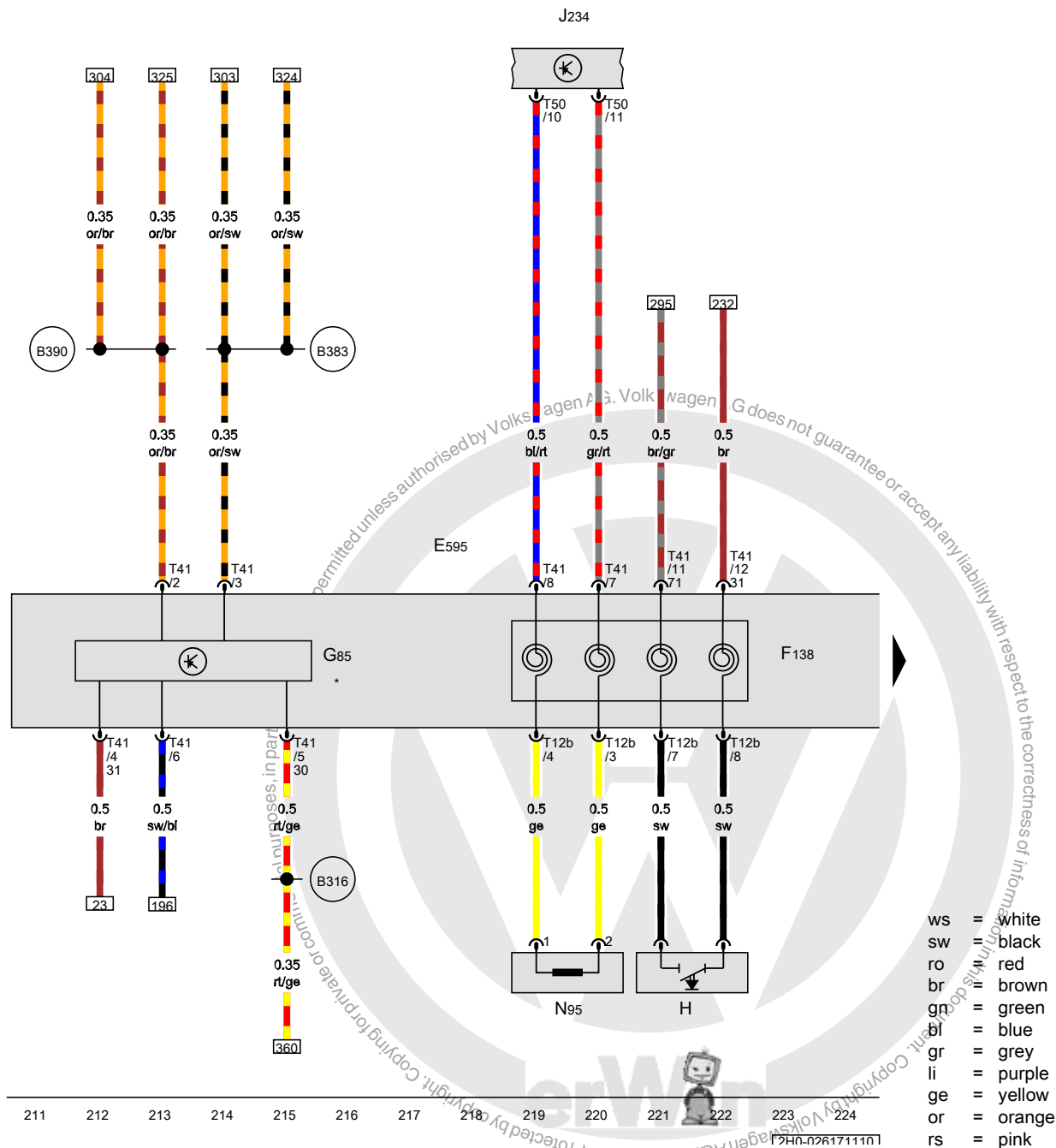
B335 Connection 1 (54), in main wiring harness

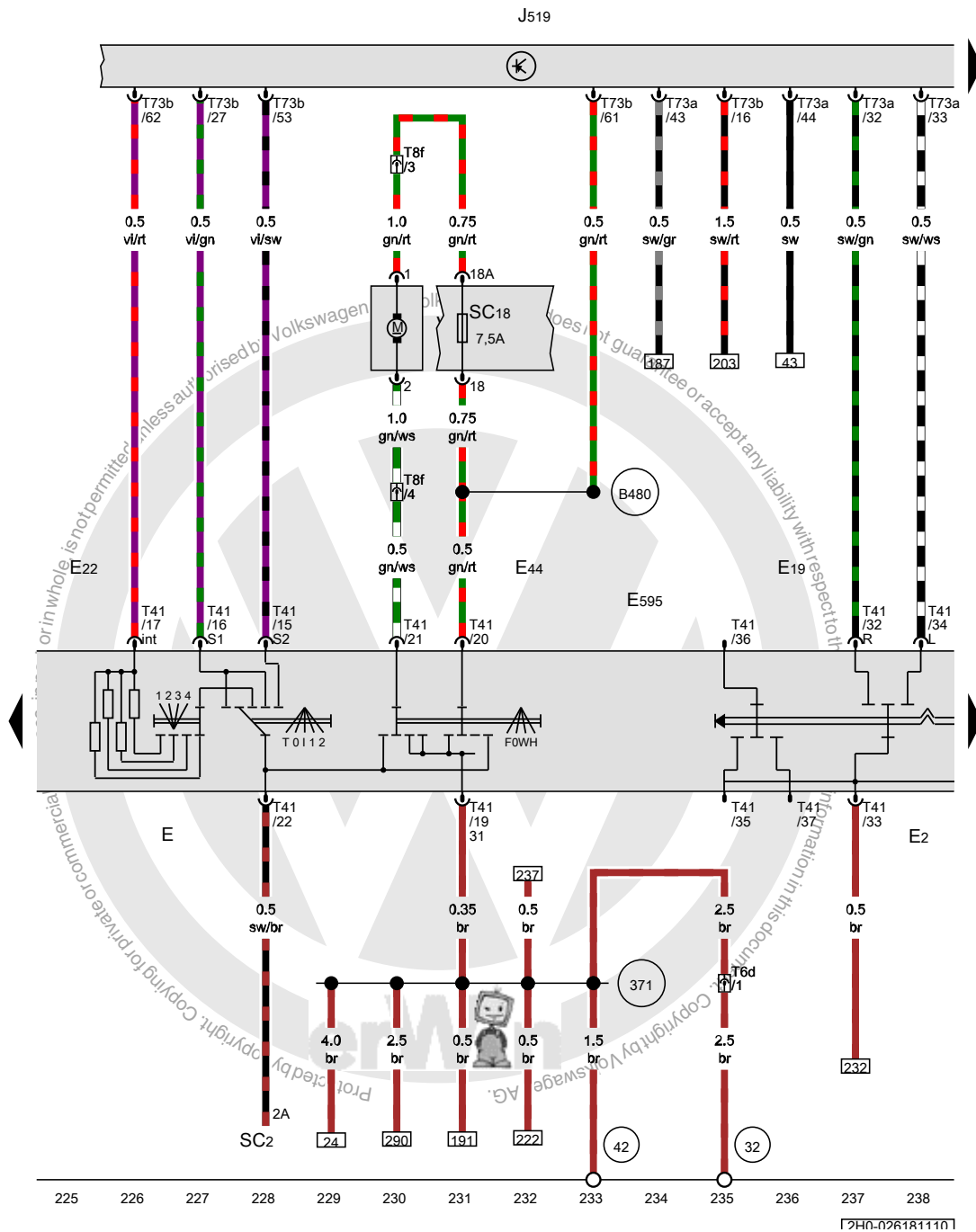
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Steering column combination switch, Steering angle sender, Horn plate

- E595 Steering column combination switch
- F138 Airbag coil connector and return ring with slip ring
- G85 Steering angle sender
- H Horn plate
- J234 Airbag control unit
- N95 Driver side airbag igniter
- T12b 12-pin connector
- T41 41-pin connector
- T50 50-pin connector

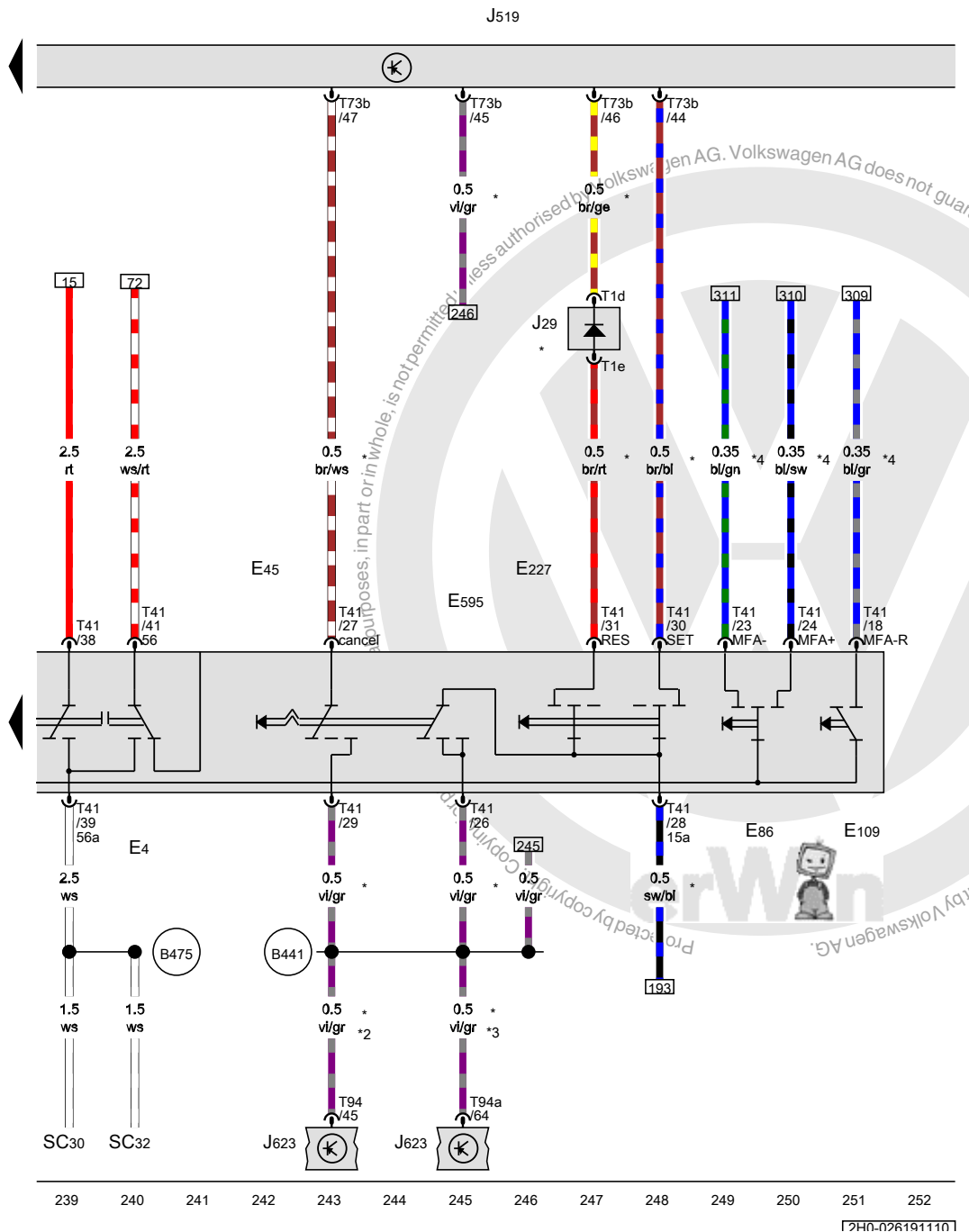
- B316 Positive connection 2 (30a) in main wiring harness
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- \* Only models with anti-lock brake system (ABS) and electronic stabilisation program (ESP)





### Turn signal switch, Steering column combination switch, Washer pump

- E Windscreen wiper switch
  - E2 Turn signal switch
  - E19 Parking light switch
  - E22 Intermittent wiper switch
  - E44 Washer pump switch (automatic wash/wipe and headlight washer system)
  - E595 Steering column combination switch
  - J519 Onboard supply control unit, near driver side A-pillar
  - SC2 Fuse 2 on fuse holder C
  - SC18 Fuse 18 on fuse holder C
  - T6d 6-pin connector, on relay carrier
  - T8f 8-pin connector, in rear right of engine compartment
  - T41 41-pin connector
  - T73a 73-pin connector
  - T73b 73-pin connector
  - V5 Washer pump
- 32 Earth point, on left behind dash panel
- 42 Earth point, next to steering column
- 371 Earth connection 6, in main wiring harness
- B480 Connection 16, in main wiring harness



**Multifunction display call-up button, Cruise control system (CCS) SET button, Steering column combination switch**

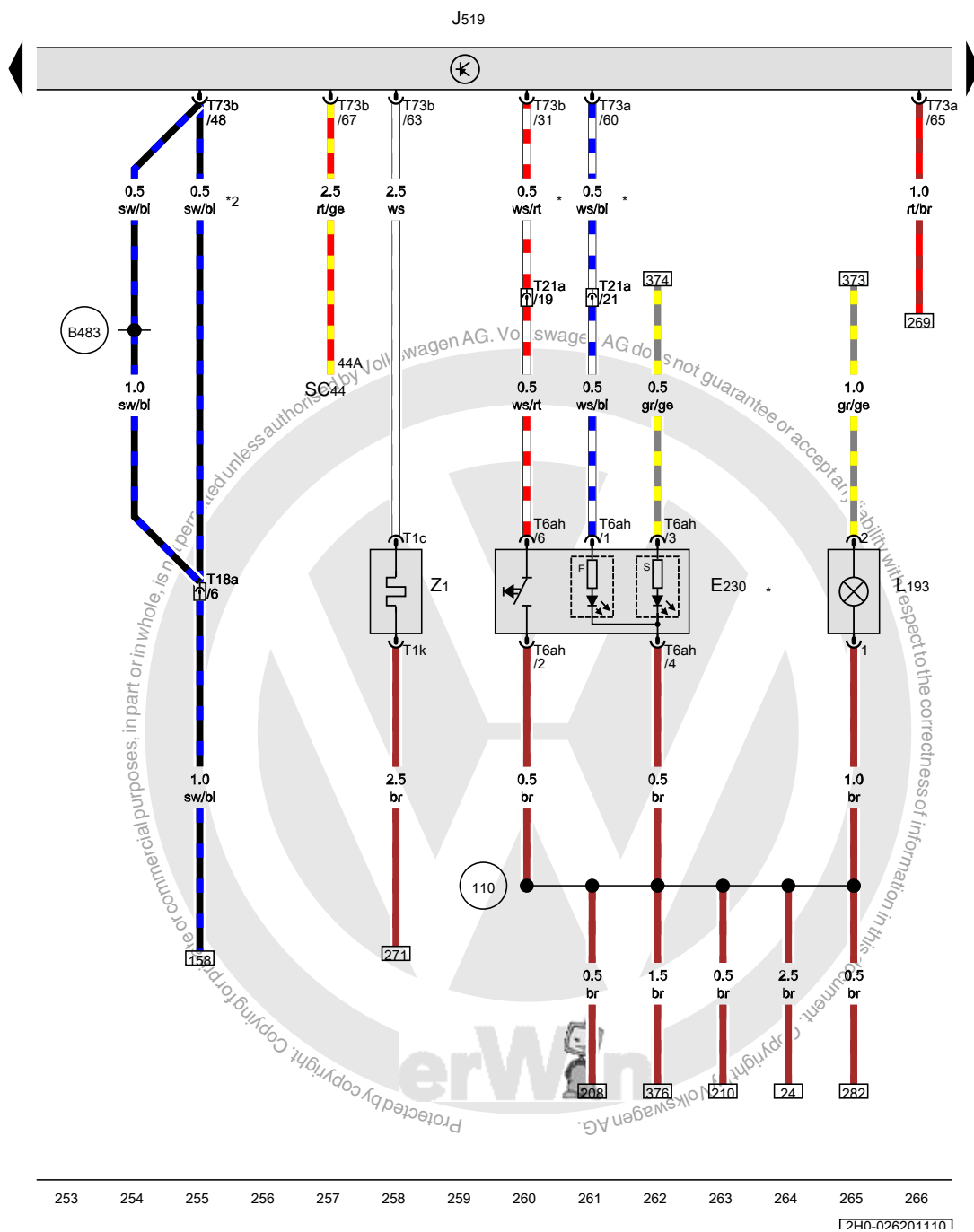
- E4 Headlight dipper and flasher switch
- E45 Cruise control system switch
- E86 Multifunction display call-up button
- E109 Multifunction display memory switch
- E227 Cruise control system (CCS) SET button
- E595 Steering column combination switch
- J29 Blocking diode
- J519 Onboard supply control unit, near driver side A-pillar
- J623 Engine control unit, near battery
- SC30 Fuse 30 on fuse holder C
- SC32 Fuse 32 on fuse holder C
- T1d Single connector
- T1e Single connector
- T41 41-pin connector
- T73b 73-pin connector
- T94 94-pin connector
- T94a 94-pin connector

B441 Connection (CCS), in main wiring harness

B475 Connection 11, in main wiring harness

- \* Only models with cruise control system (CCS)
- \*2 Only models with petrol engine
- \*3 Only models with diesel engines
- \*4 Only models with multifunction display

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Heated rear window button, Light 1 for front centre console background lighting, Fuse 44 on fuse holder C, Heated rear window

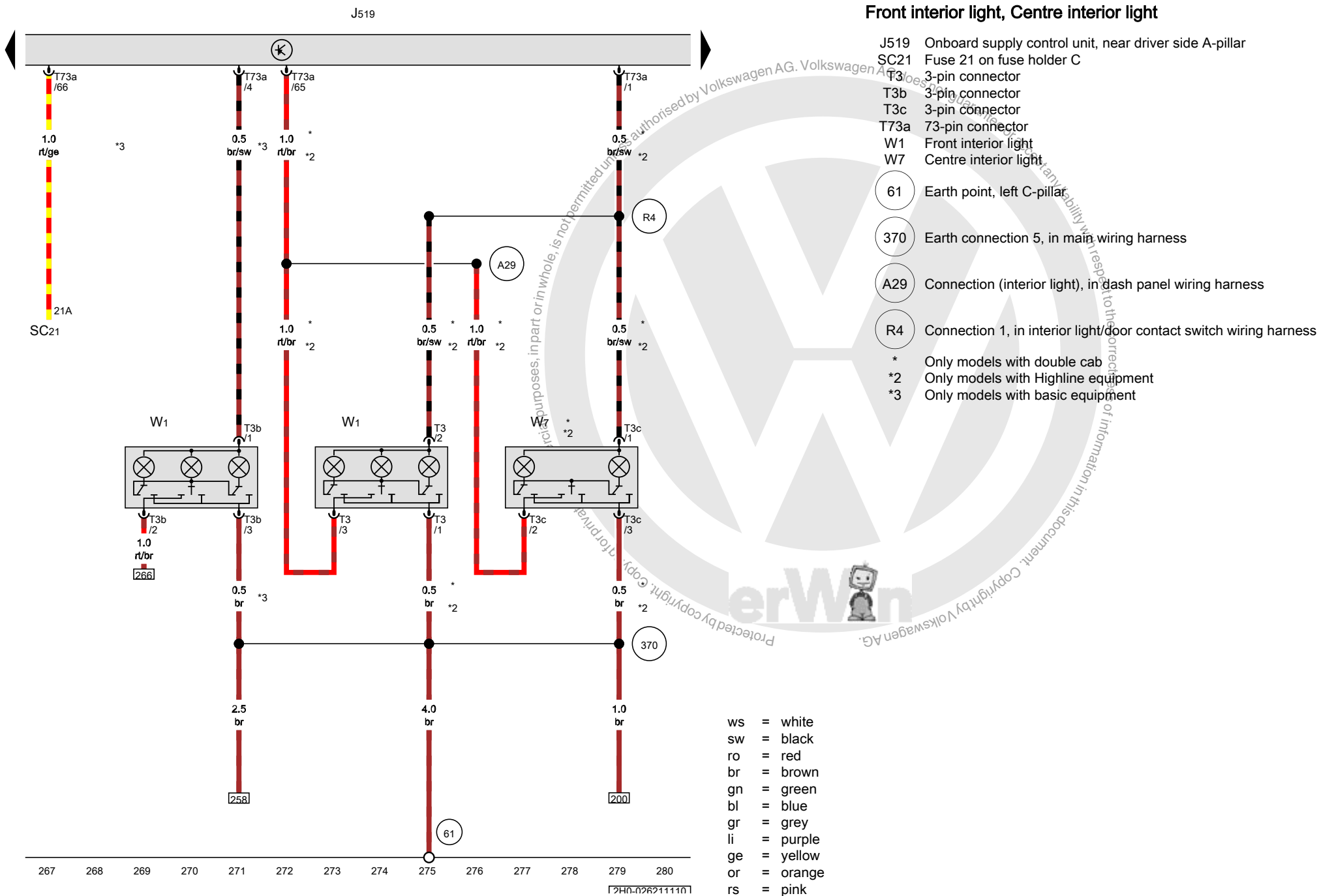
- E230 Heated rear window button, near radio
- J519 Onboard supply control unit, near driver side A-pillar
- L193 Light 1 for front centre console background lighting, in centre of dash panel
- SC44 Fuse 44 on fuse holder C
- T1c Single connector
- T1k Single connector
- T6ah 6-pin connector
- T18a 18-pin connector, near engine control unit
- T21a 21-pin connector
- T73a 73-pin connector
- T73b 73-pin connector
- Z1 Heated rear window

110 Earth connection 2, in dash panel wiring harness

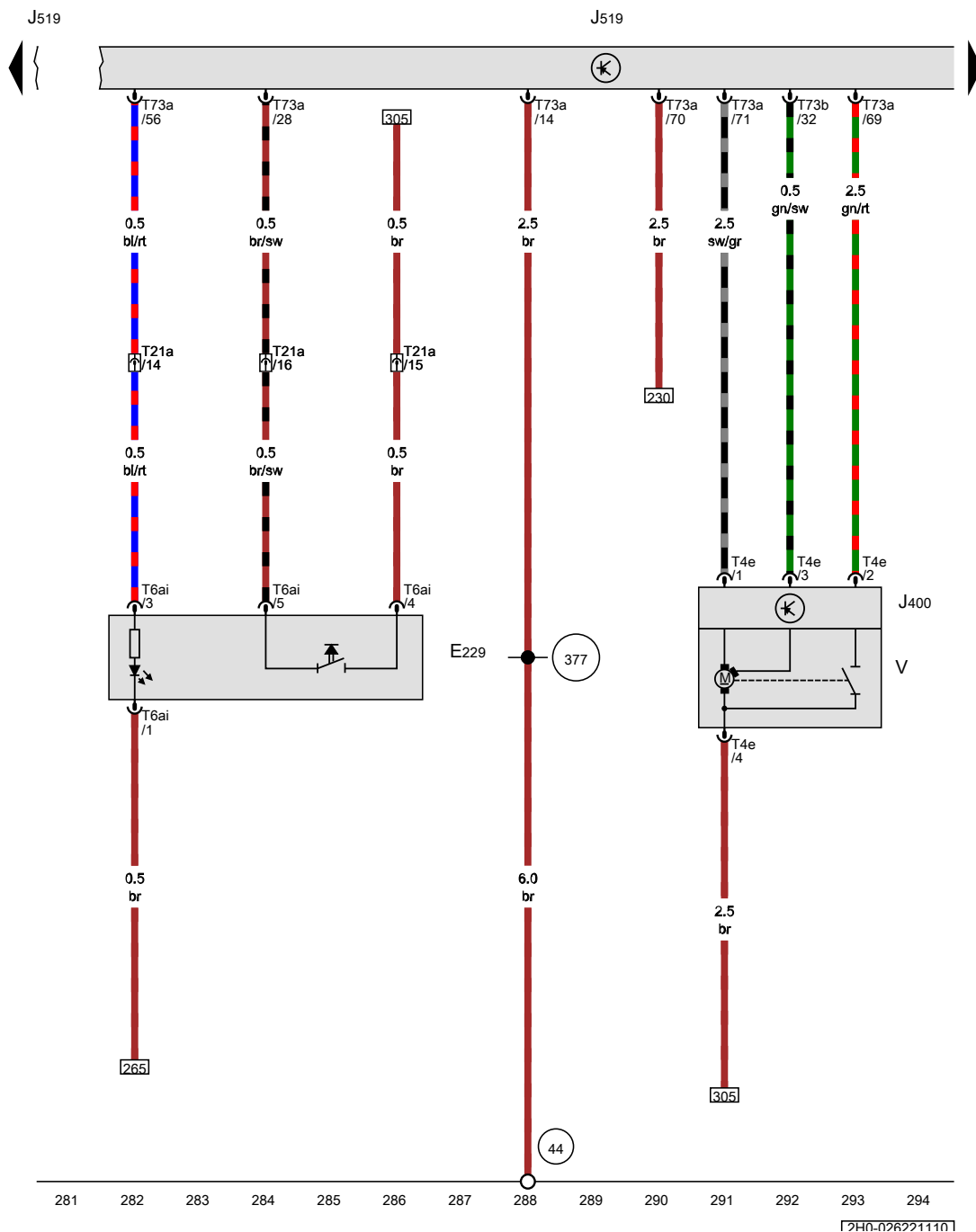
B483 Connection 19, in main wiring harness

- \* Only models with no air conditioning system/Climatronic
- \*2 Only models with no electric interface

ws = white  
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 gn = green  
 bl = blue  
 gr = grey  
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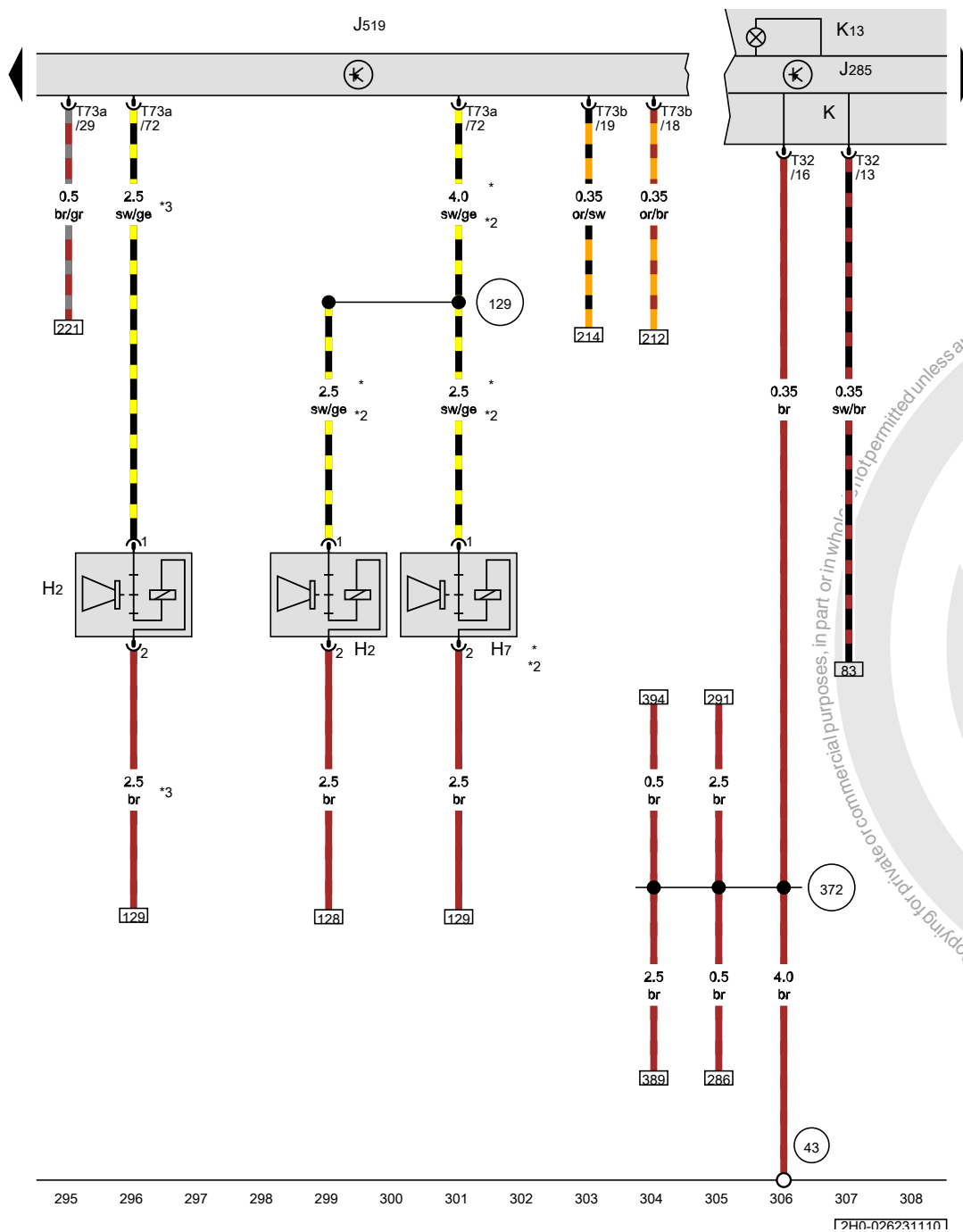
### Hazard warning lights button, Windscreen wiper motor

- E229 Hazard warning lights button, near radio
- J400 Wiper motor control unit
- J519 Onboard supply control unit, near driver side A-pillar
- T4e 4-pin connector
- T6ai 6-pin connector
- T21a 21-pin connector, on relay carrier
- T73a 73-pin connector
- T73b 73-pin connector
- V Windscreen wiper motor

44 Earth point, lower part of left A-pillar

377 Earth connection 12, in main wiring harness

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- bl = blue
- gr = grey
- li = purple
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- or = orange
- rs = pink

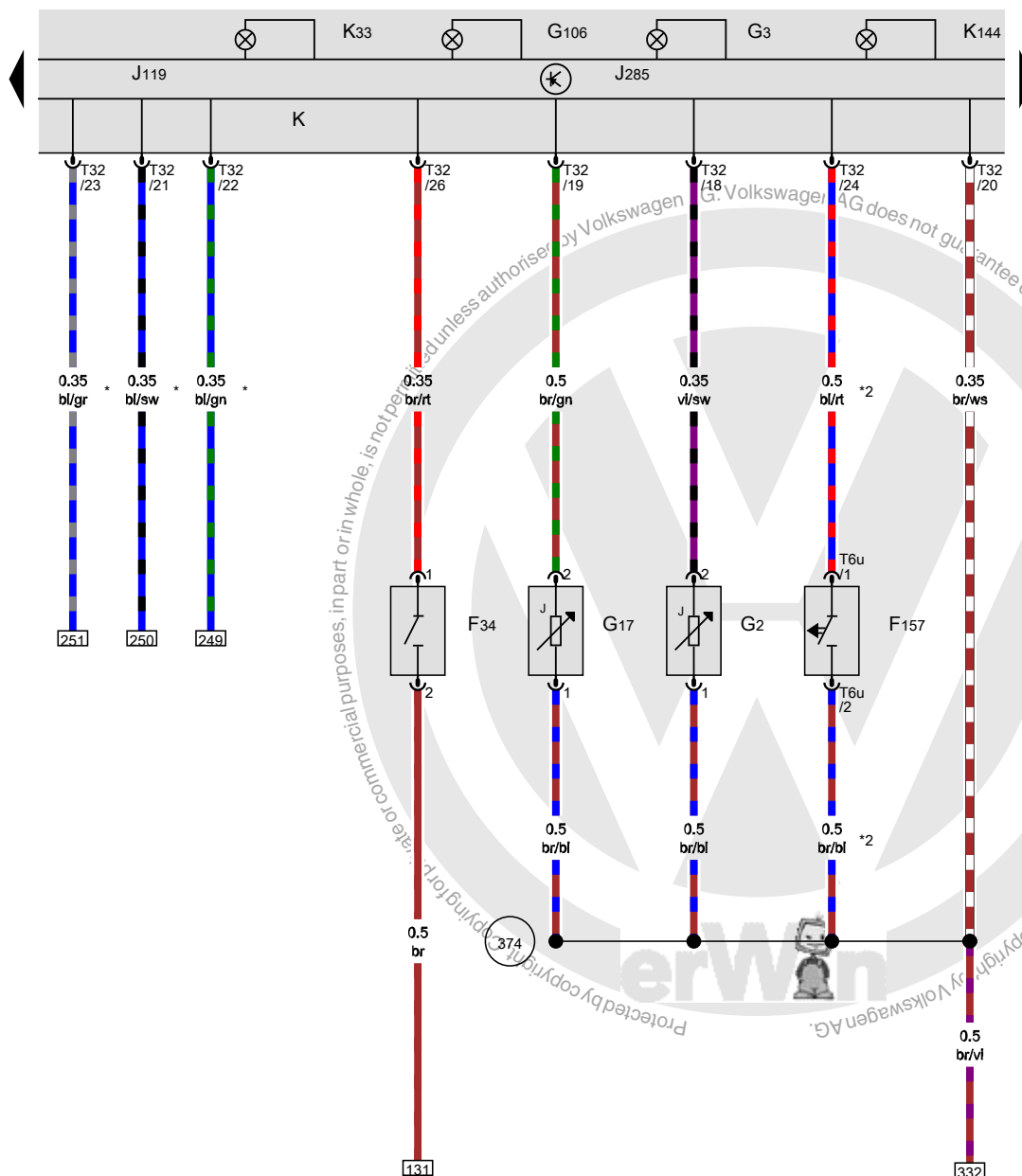


Treble horn, Dash panel insert, Rear fog light warning lamp

- H2 Treble horn
- H7 Bass horn
- J285 Control unit in dash panel insert
- J519 Onboard supply control unit
- K Dash panel insert
- K13 Rear fog light warning lamp
- T32 32-pin connector
- T73a 73-pin connector
- T73b 73-pin connector

- 43 Earth point, lower part of right A-pillar
- 129 Earth connection, in dual tone horn wiring harness
- 372 Earth connection 7, in main wiring harness
- \* Only models with Highline equipment
- \*2 Only models with Trendline equipment
- \*3 Only models with basic equipment

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Brake fluid level warning contact, Belt fastened contact on driver side, Coolant temperature display sender, Coolant temperature gauge, Ambient temperature sensor, Ambient temperature indicator, Multifunction indicator, Dash panel insert, Brake fluid level warning lamp, Driver side airbag deactivated warning lamp

- F34 Brake fluid level warning contact
- F157 Belt fastened contact on driver side
- G2 Coolant temperature display sender
- G3 Coolant temperature gauge
- G17 Ambient temperature sensor
- G106 Ambient temperature indicator
- J119 Multifunction indicator
- J285 Control unit in dash panel insert
- K Dash panel insert
- K33 Brake fluid level warning lamp
- K144 Driver side airbag deactivated warning lamp
- T6u 6-pin connector
- T32 32-pin connector

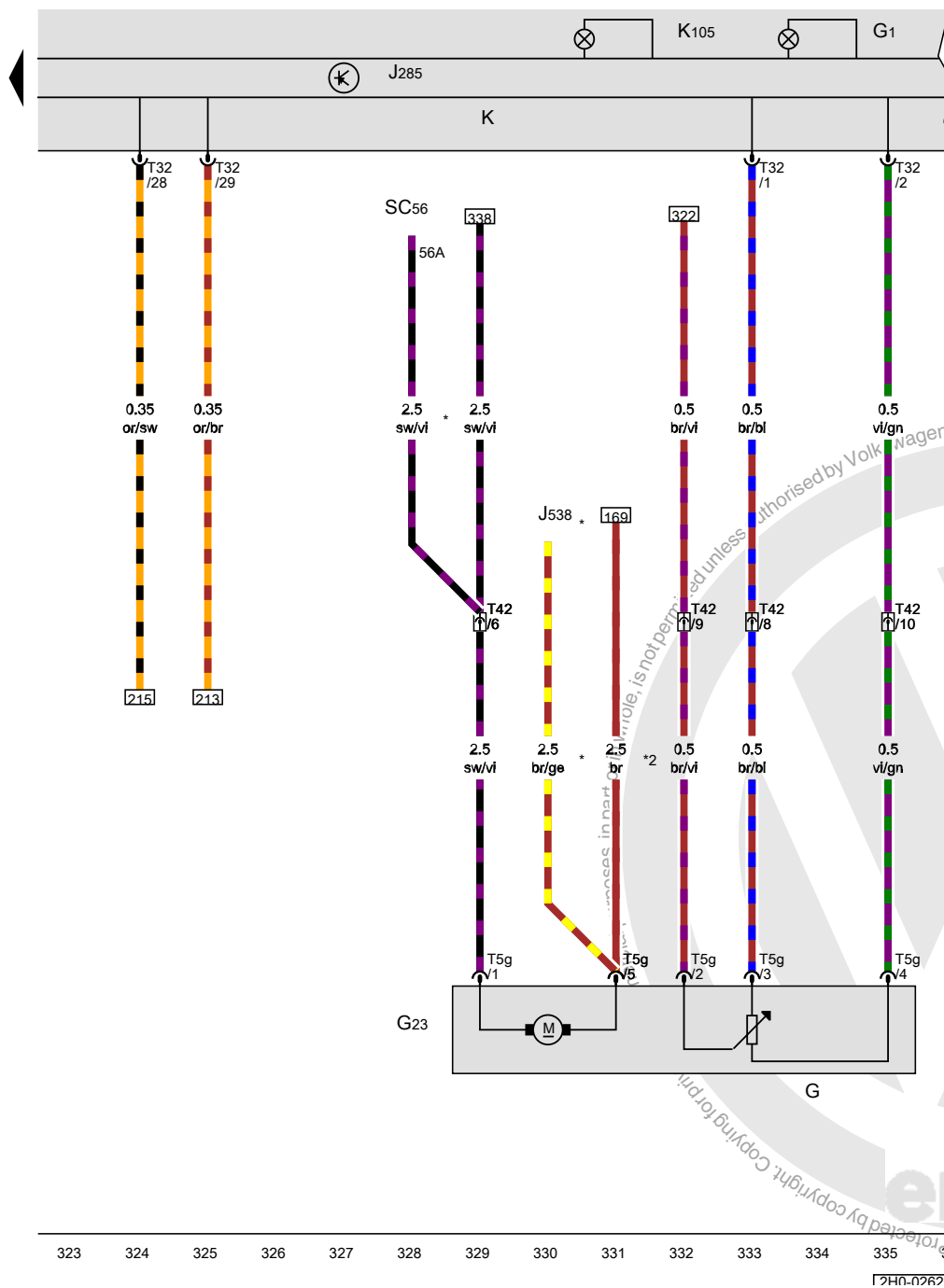
374 Earth connection 9, in main wiring harness

- \* Only models with multifunction display
- \*2 Only models with no airbag

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or = orange  
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309 310 311 312 313 314 315 316 317 318 319 320 321 322

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Fuel gauge, Fuel pump, Fuel pump control unit, Dash panel insert, Reserve fuel warning lamp

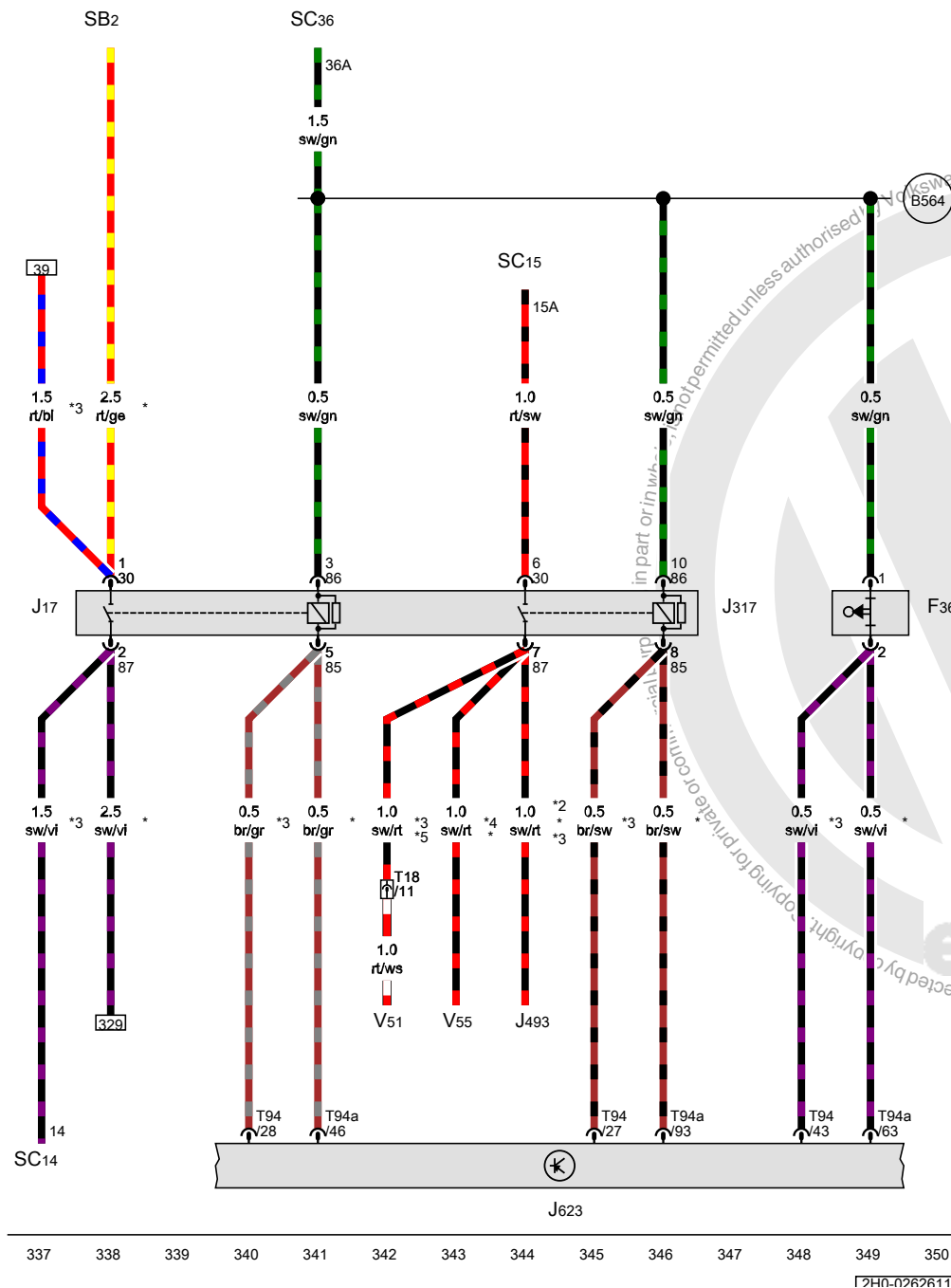
- G Fuel gauge sender
- G1 Fuel gauge
- G23 Fuel pump
- J285 Control unit in dash panel insert
- J538 Fuel pump control unit
- K Dash panel insert
- K105 Reserve fuel warning lamp
- SC56 Fuse 56 on fuse holder C
- T5g 5-pin connector
- T32 32-pin connector
- T42 42-pin connector, near handbrake lever
- \* Only models with petrol engine
- \*2 Only models with diesel engines

Clutch pedal switch, Fuel pump relay, Terminal 30 voltage supply relay

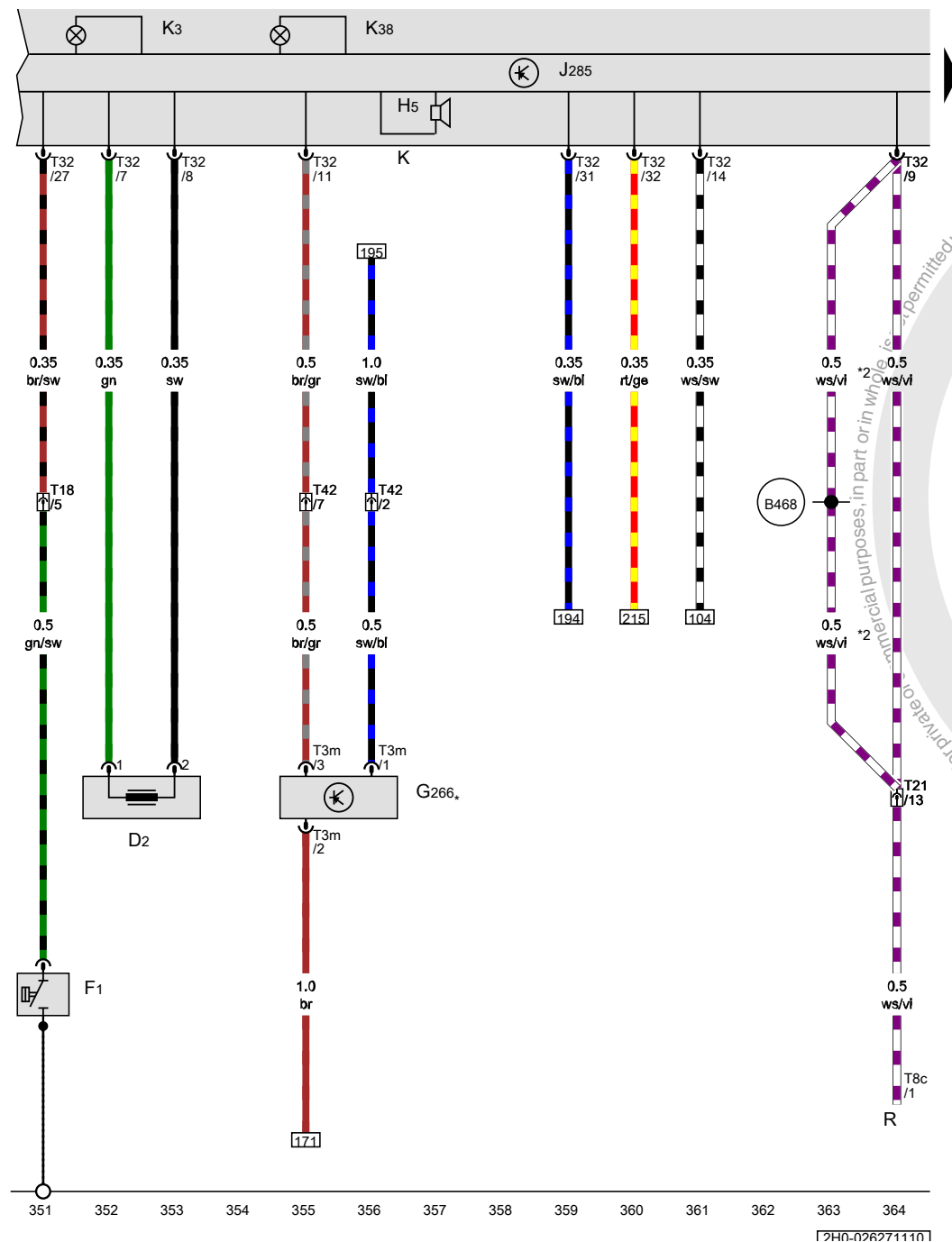
- F36 Clutch pedal switch
- J17 Fuel pump relay
- J317 Terminal 30 voltage supply relay
- J493 Auxiliary coolant heater relay
- J623 Engine control unit
- SB2 Fuse 2 on fuse holder B
- SC14 Fuse 14 on fuse holder C
- SC15 Fuse 15 on fuse holder C
- SC36 Fuse 36 on fuse holder C
- T18 18-pin connector, near engine control unit
- T94 94-pin connector
- T94a 94-pin connector
- V51 Continued coolant circulation pump
- V55 Circulation pump

B564 Connection 31, in main wiring harness

- \* Only models with diesel engines
- \*2 Only models with air conditioning system/ Climatronic
- \*3 Only models with petrol engine
- \*4 Only models with no air conditioning system/Climatronic
- \*5 Only models with no Climatronic



- ws = white
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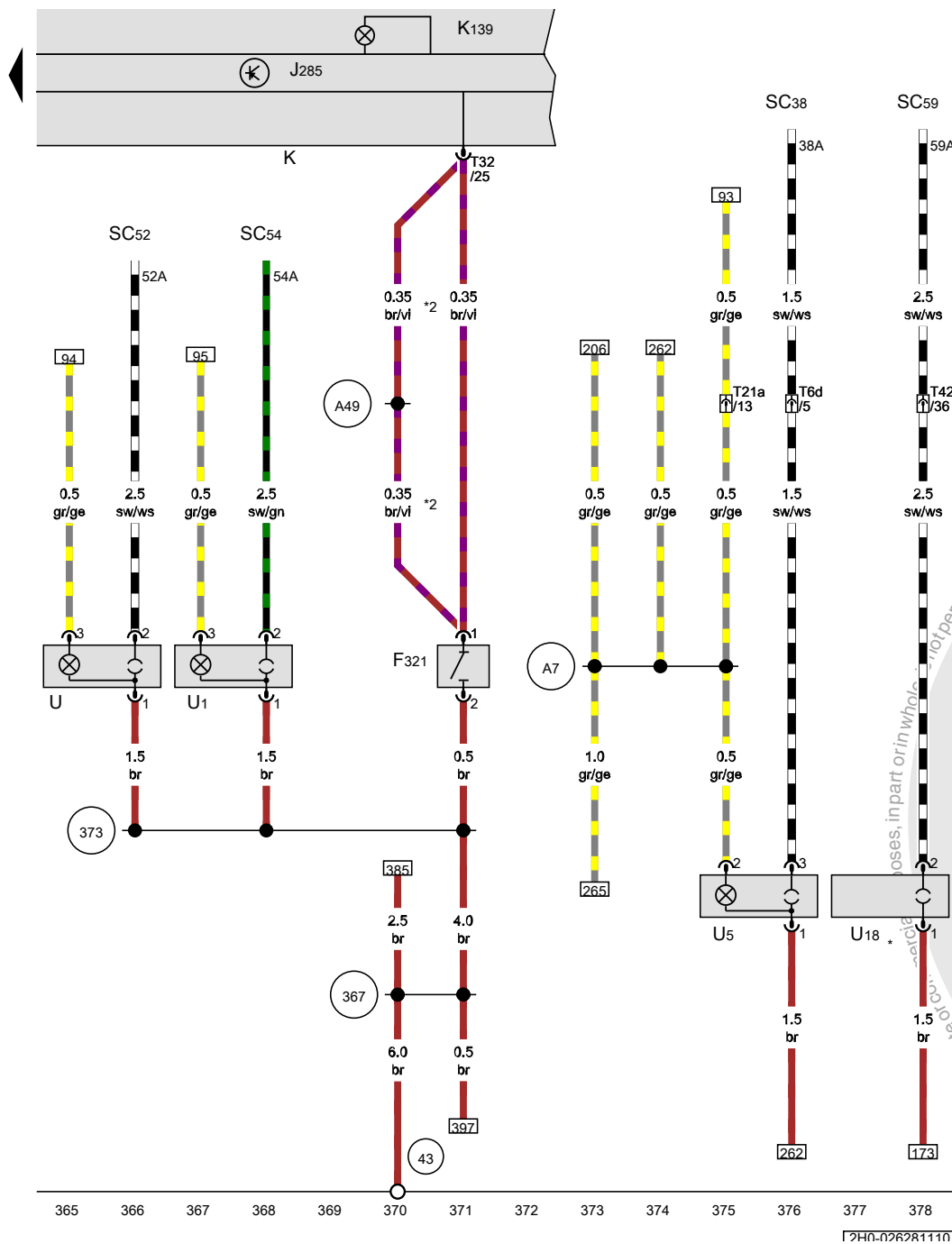
Immobiliser reader coil, Oil pressure switch, Oil level and oil temperature sender, Ignition and starter key warning system buzzer and gong, Dash panel insert, Oil pressure warning lamp, Oil level warning lamp, Radio

- D2 Immobiliser reader coil, in ignition/starter switch
- F1 Oil pressure switch
- G266 Oil level and oil temperature sender
- H5 Ignition and starter key warning system buzzer and gong
- J285 Control unit in dash panel insert
- K Dash panel insert
- K3 Oil pressure warning lamp
- K38 Oil level warning lamp
- R Radio
- T3m 3-pin connector
- T8c 8-pin connector
- T18 18-pin connector, near engine control unit
- T21 21-pin connector, on relay carrier
- T32 32-pin connector
- T42 42-pin connector, near handbrake lever

B468 Connection 4, in main wiring harness

- \* see applicable current flow diagram for engine
- \*2 Only models with no electric interface

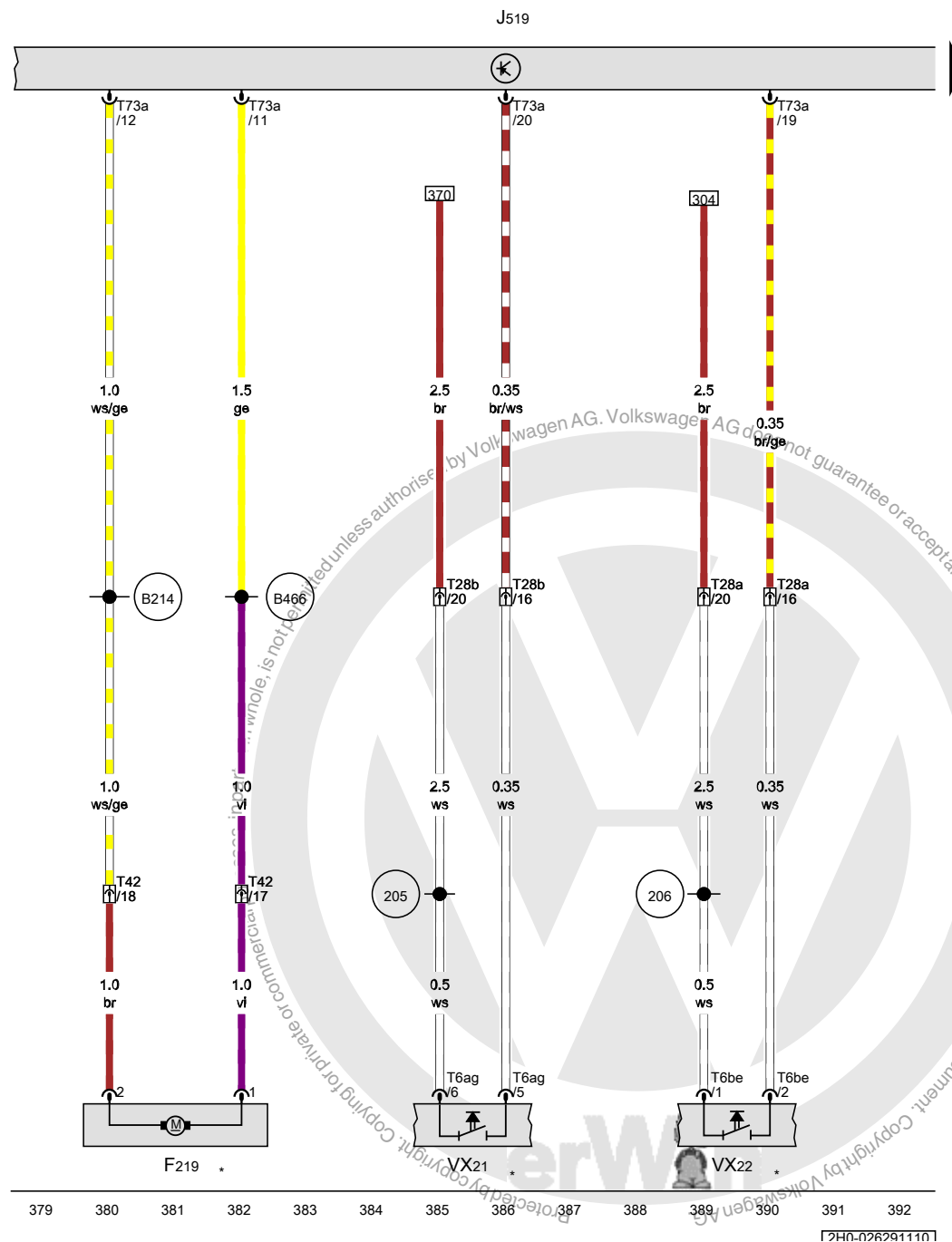
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Parking brake contact switch, Dash panel insert, Handbrake warning lamp, Fuse 38 on fuse holder C, Fuse 52 on fuse holder C, Fuse 54 on fuse holder C, Electric socket, Cigarette lighter, 12 V socket, 12 V socket 2

- F321 Parking brake contact switch
- J285 Control unit in dash panel insert
- K Dash panel insert
- K139 Handbrake warning lamp
- SC38 Fuse 38 on fuse holder C
- SC52 Fuse 52 on fuse holder C
- SC54 Fuse 54 on fuse holder C
- SC59 Fuse 59 on fuse holder C
- T6d 6-pin connector, on relay carrier
- T21a 21-pin connector, on relay carrier
- T32 32-pin connector
- T42 42-pin connector, near handbrake lever
- U Electric socket
- U1 Cigarette lighter
- U5 12 V socket
- U18 12 V socket 2
- 43 Earth point, lower part of right A-pillar
- 367 Earth connection 2, in main wiring harness
- 373 Earth connection 8, in main wiring harness
- A7 Positive connection (58 D1), in dash panel wiring harness
- A49 Connection 1, in dash panel wiring harness
- \* Special equipment
- \*2 Only models with no electric interface

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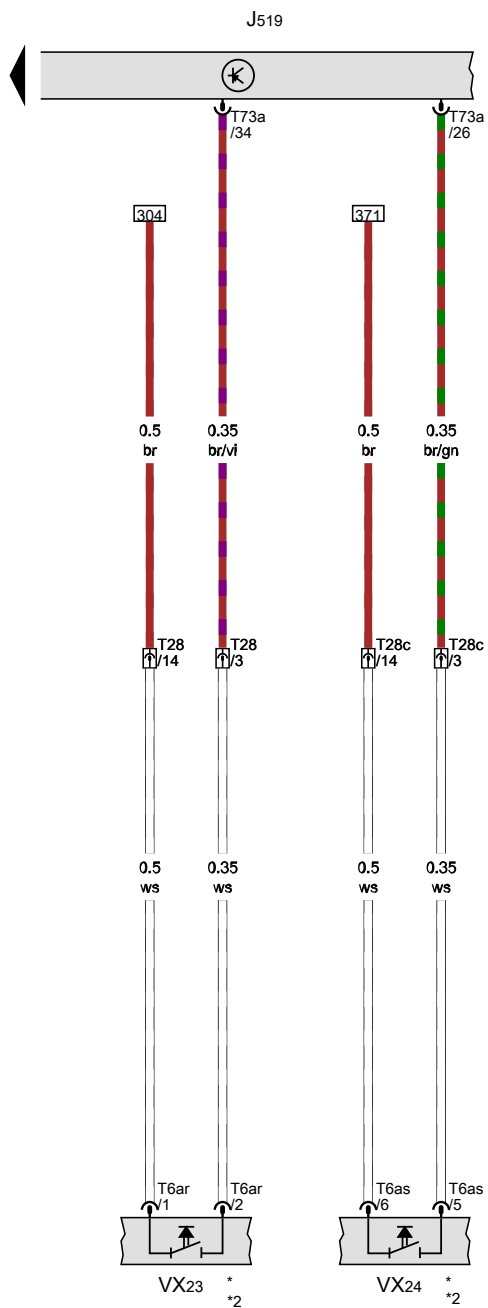


Fuel tank filler flap central locking actuator, Onboard supply control unit, Driver door lock unit, Front passenger door lock unit

- F219 Fuel tank filler flap central locking actuator
- J519 Onboard supply control unit, near driver side A-pillar
- T6ag 6-pin connector
- T6be 6-pin connector
- T28a 28-pin connector, on left A-pillar
- T28b 28-pin connector, on right A-pillar
- T42 42-pin connector, near handbrake lever
- T73a 73-pin connector
- VX21 Driver door lock unit
- VX22 Front passenger door lock unit

- 205 Earth connection, in driver door wiring harness
- 206 Earth connection, in front passenger door wiring harness
- B214 Connection 1 (central locking), in interior wiring harness
- B466 Connection 2, in main wiring harness
- \* Only models with no central locking





Onboard supply control unit, Rear left door lock unit, Rear right door lock unit

- J519 Onboard supply control unit, near driver side A-pillar
- T6ar 6-pin connector
- T6as 6-pin connector
- T28 28-pin connector, on left B-pillar
- T28c 28-pin connector, on right B-pillar
- T73a 73-pin connector
- VX23 Rear left door lock unit
- VX24 Rear right door lock unit
- \* Only models with no central locking
- \*2 Only models with double cab

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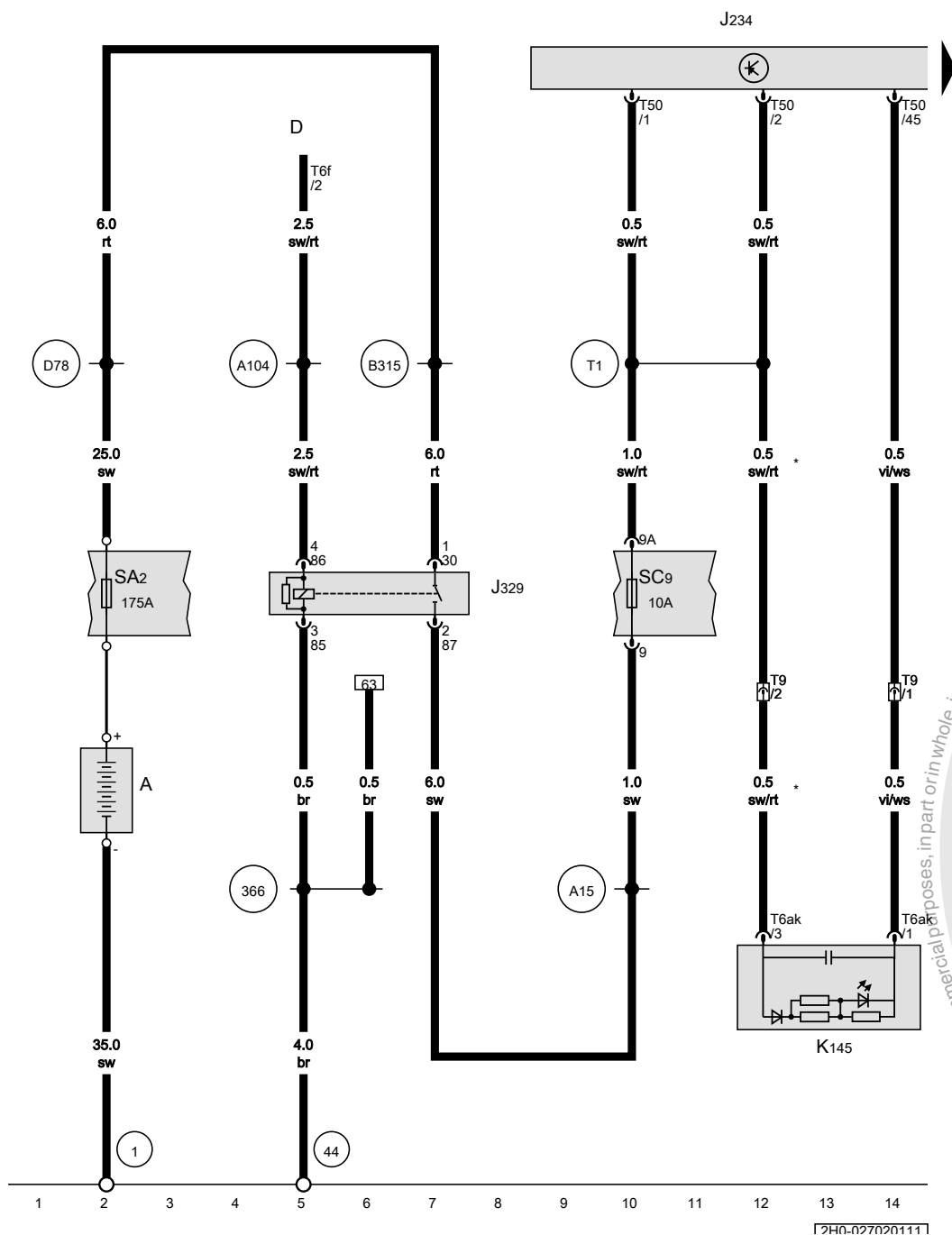
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## **Airbag systems , (L0R)**

From December 2009



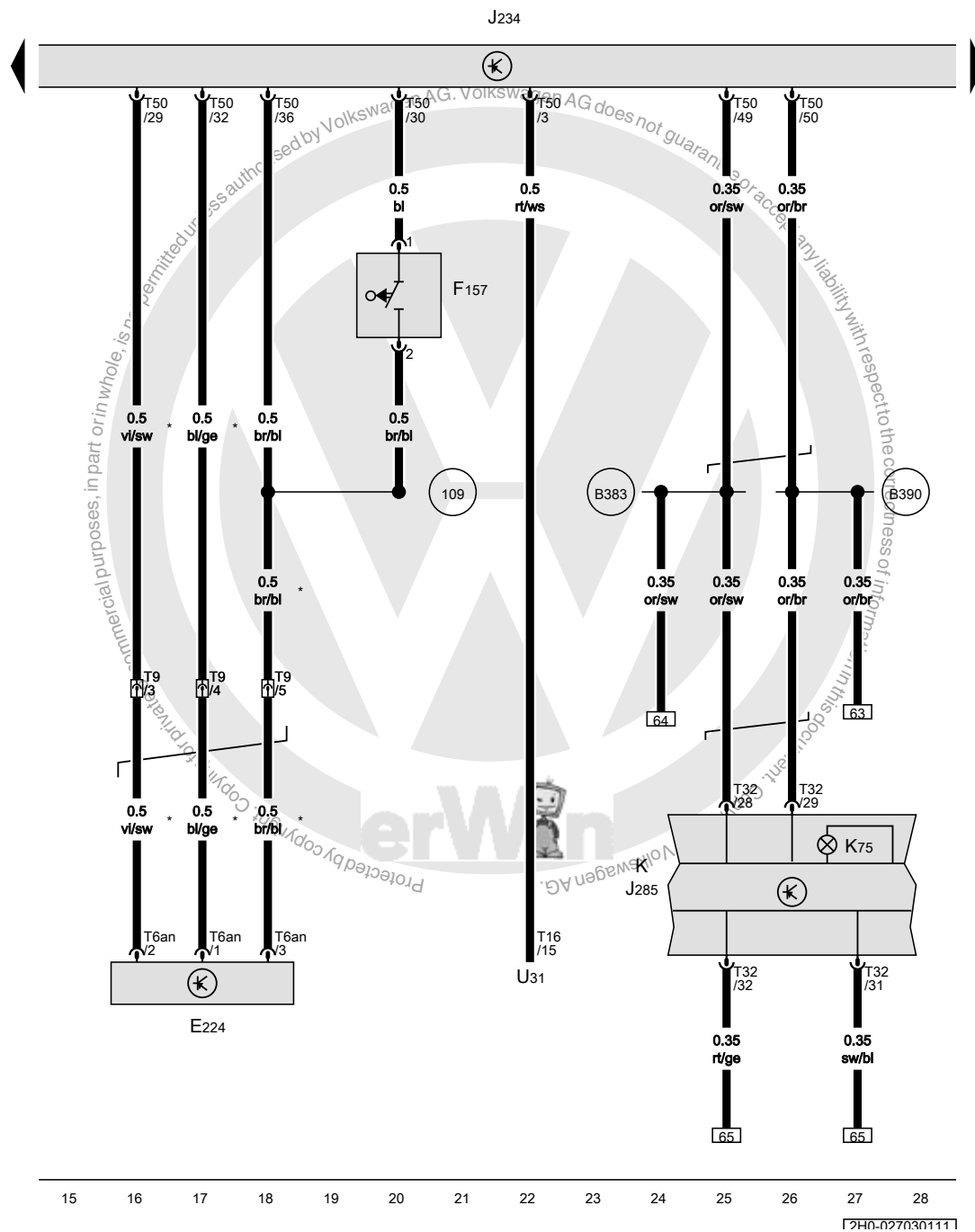


Battery, Ignition/starter switch, Airbag control unit, Front passenger side airbag deactivated warning lamp, Fuse 2 in fuse holder A, Fuse 9 on fuse holder C

- A Battery
- D Ignition/starter switch
- J234 Airbag control unit, in front centre console
- J329 Terminal 15 voltage supply relay
- K145 Front passenger side airbag deactivated warning lamp, near radio
- SA2 Fuse 2 in fuse holder A
- SC9 Fuse 9 on fuse holder C
- T6ak 6-pin connector
- T6f 6-pin connector
- T9 9-pin connector, on relay carrier
- T50 50-pin connector

- 1 Earth strap, battery - body
- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- A15 Positive connection (15), in instrument wiring harness
- A104 Positive connection 2 (15), in dash panel wiring harness
- B315 Positive connection 1 (30a) in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness
- T1 Positive connection 1, in airbag wiring harness
- \* Only models with key operated switch to deactivate front passenger airbag

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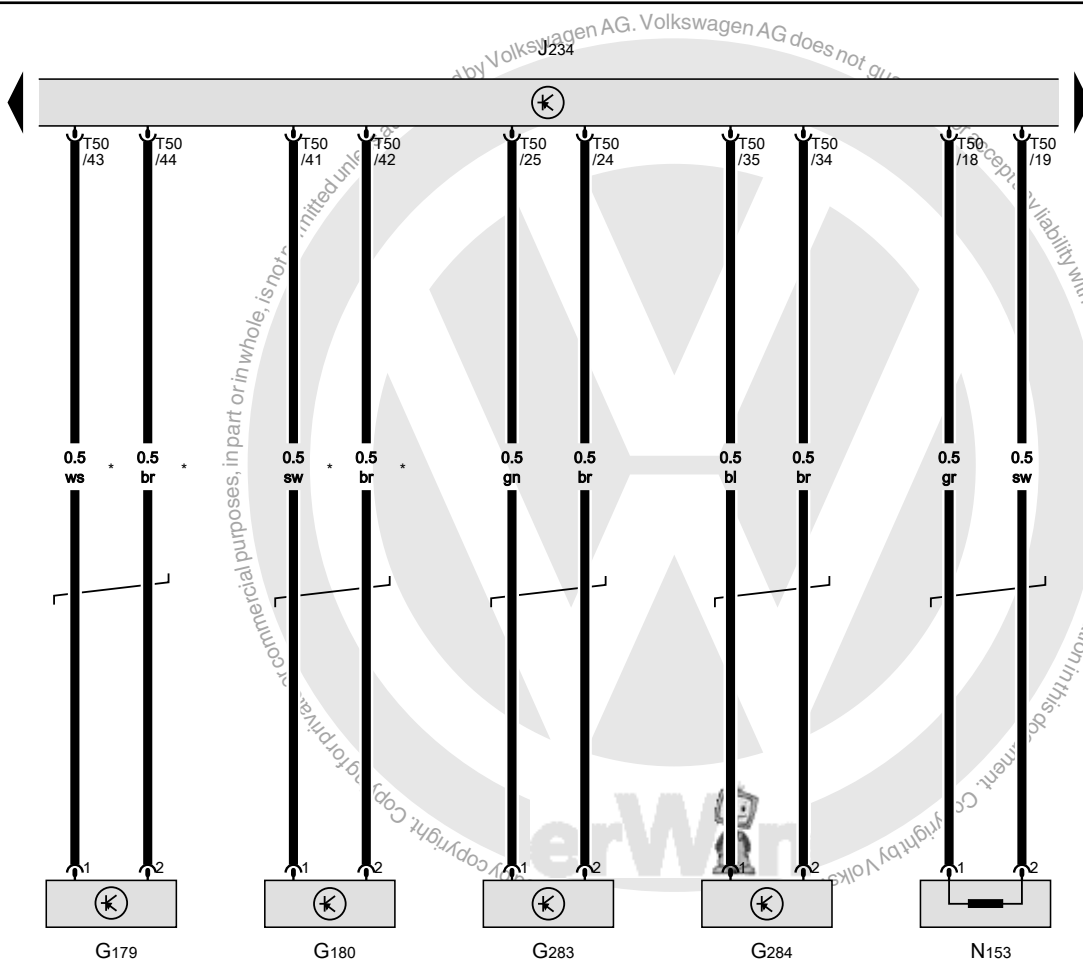
**Key operated switch to deactivate front passenger side airbag, Belt fastened contact on driver side, Airbag control unit, Diagnostic connection**

- E224 Key operated switch to deactivate front passenger side airbag
- F157 Belt fastened contact on driver side
- J234 Airbag control unit, in front centre console
- J285 Control unit in dash panel insert
- K Dash panel insert
- K75 Airbag warning lamp
- T6an 6-pin connector
- T9 9-pin connector, on relay carrier
- T16 16-pin connector
- T32 32-pin connector
- T50 50-pin connector
- U31 Diagnostic connection, near driver side A-pillar

- 109 Earth connection, in airbag wiring harness
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

\* Only models with key operated switch to deactivate front passenger airbag/ side airbag/ belt buckle sensor

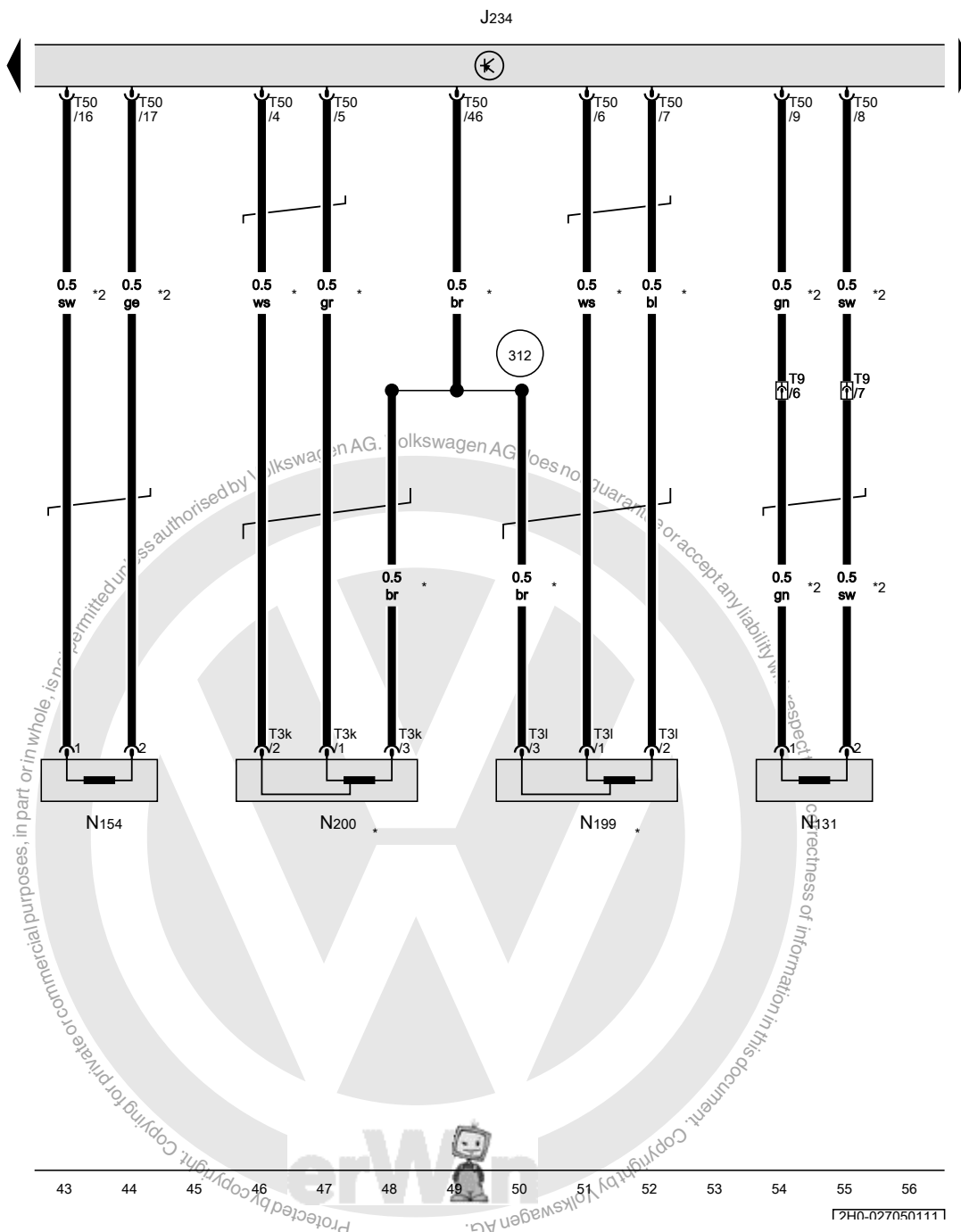
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Side airbag crash sensor on driver side, Side airbag crash sensor on front passenger side, Front airbag crash sensor for driver side, Front airbag crash sensor for front passenger side, Airbag control unit, Driver seat belt tensioner igniter 1

- G179 Side airbag crash sensor on driver side, lower part of B-pillar, driver side
- G180 Side airbag crash sensor on front passenger side, lower part of B-pillar, front passenger side
- G283 Front airbag crash sensor for driver side, behind right headlight
- G284 Front airbag crash sensor for front passenger side, behind left headlight
- J234 Airbag control unit, in front centre console
- N153 Driver seat belt tensioner igniter 1
- T50 50-pin connector
- \* Only models with front head-thorax airbag

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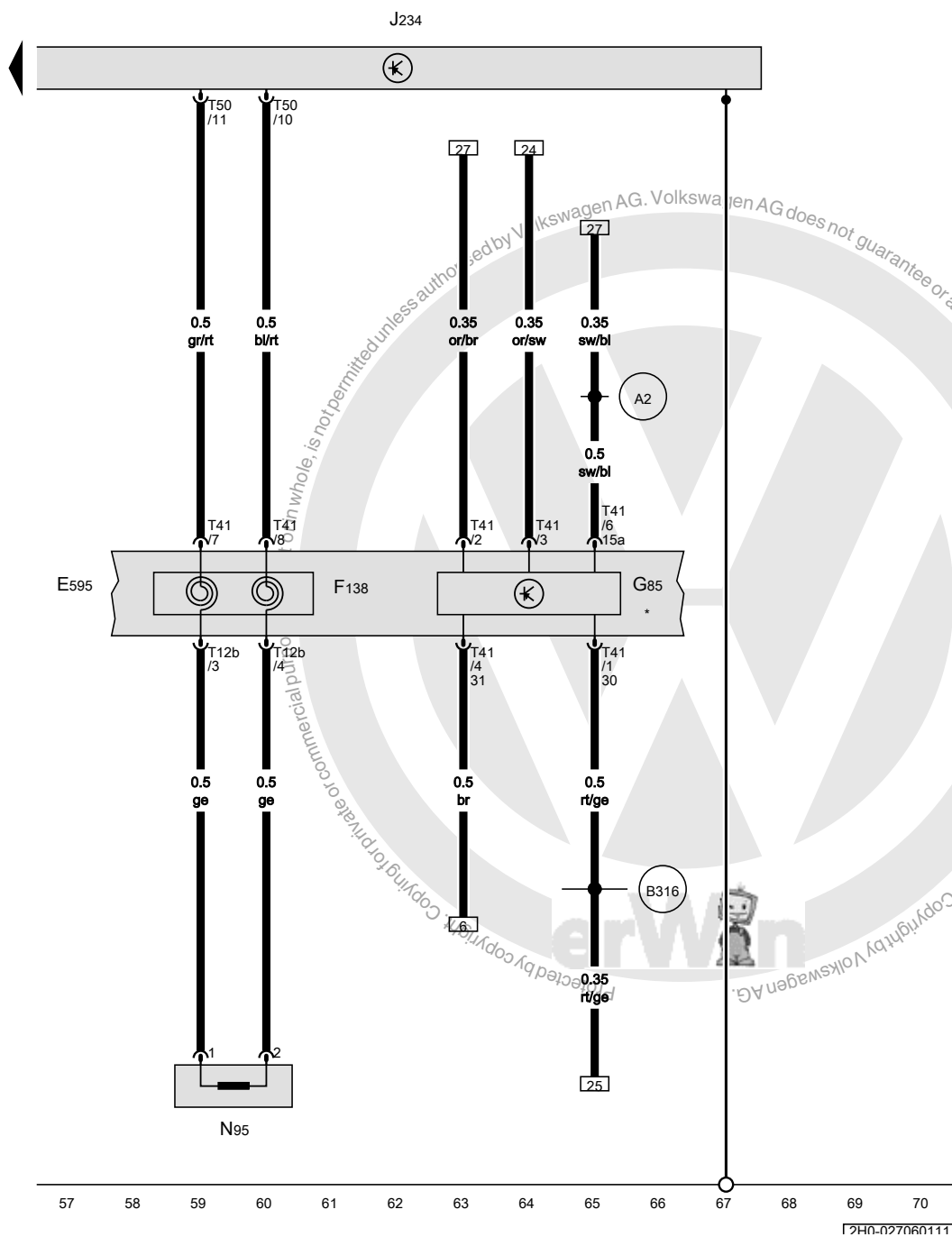


Airbag control unit, Front passenger side airbag igniter 1, Front passenger seat belt tensioner igniter 1, Side airbag igniter on driver side, Side airbag igniter on front passenger side

- J234 Airbag control unit, in front centre console
- N131 Front passenger side airbag igniter 1
- N154 Front passenger seat belt tensioner igniter 1
- N199 Side airbag igniter on driver side
- N200 Side airbag igniter on front passenger side
- T3k 3-pin connector
- T3l 3-pin connector
- T9 9-pin connector, on relay carrier
- T50 50-pin connector

312 Earth connection 2, in airbag wiring harness

- \* Only models with front head-thorax airbag
- \*2 Only models with front passenger airbag



Steering column combination switch, Airbag coil connector and return ring with slip ring, Airbag control unit, Driver side airbag igniter

- E595 Steering column combination switch
- F138 Airbag coil connector and return ring with slip ring
- G85 Steering angle sender
- J234 Airbag control unit, in front centre console
- N95 Driver side airbag igniter
- T12b 12-pin connector
- T41 41-pin connector
- T50 50-pin connector

A2 Positive connection (15), in dash panel wiring harness

B316 Positive connection 2 (30a) in main wiring harness

\* Only models with anti-lock brake system (ABS) and electronic stabilisation program (ESP)

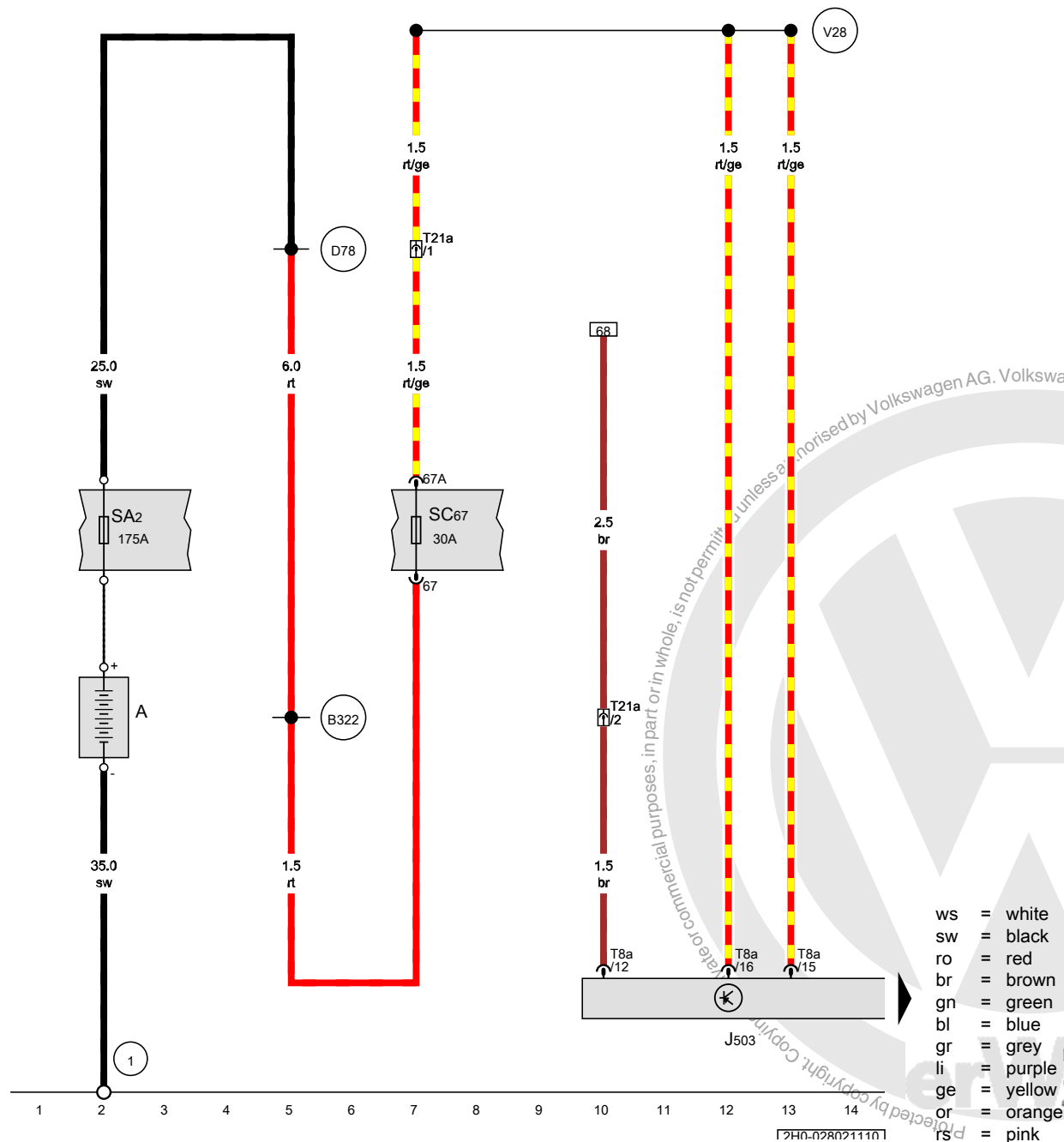
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## Radio navigation system , (8AY),(7UC),(7UK),(LOR)

From December 2009



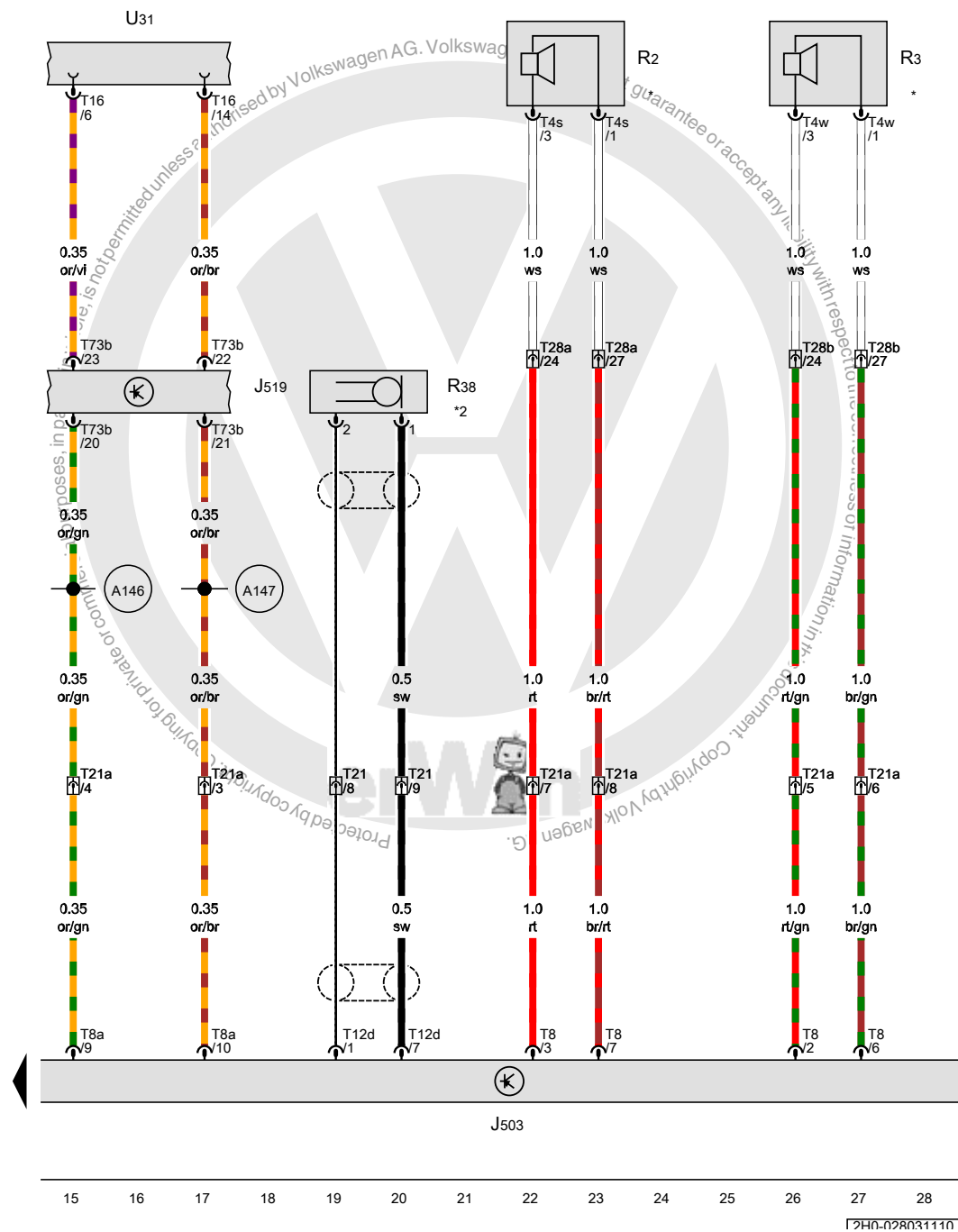




**Battery, Control unit with display for radio and navigation,  
Fuse 2 in fuse holder A, Fuse 67 on fuse holder C**

- |      |   |
|------|---|
| A    | Battery   |
| J503 | Control unit with display for radio and navigation                |
| SA2  | Fuse 2 in fuse holder A   |
| SC67 | Fuse 67 on fuse holder C  |
| T8a  | 8-pin connector   |
| T21a | 21-pin connector, on relay carrier                                |
| 1    | Earth strap, battery - body                                       |
| B322 | Positive connection 8 (30a) in main wiring harness                |
| D78  | Positive connection 1 (30a), in engine compartment wiring harness |
| V28  | Connection 1, in radio wiring harness                             |

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Control unit with display for radio and navigation, Front left loudspeaker, Front right loudspeaker, Telephone microphone, Diagnostic connection

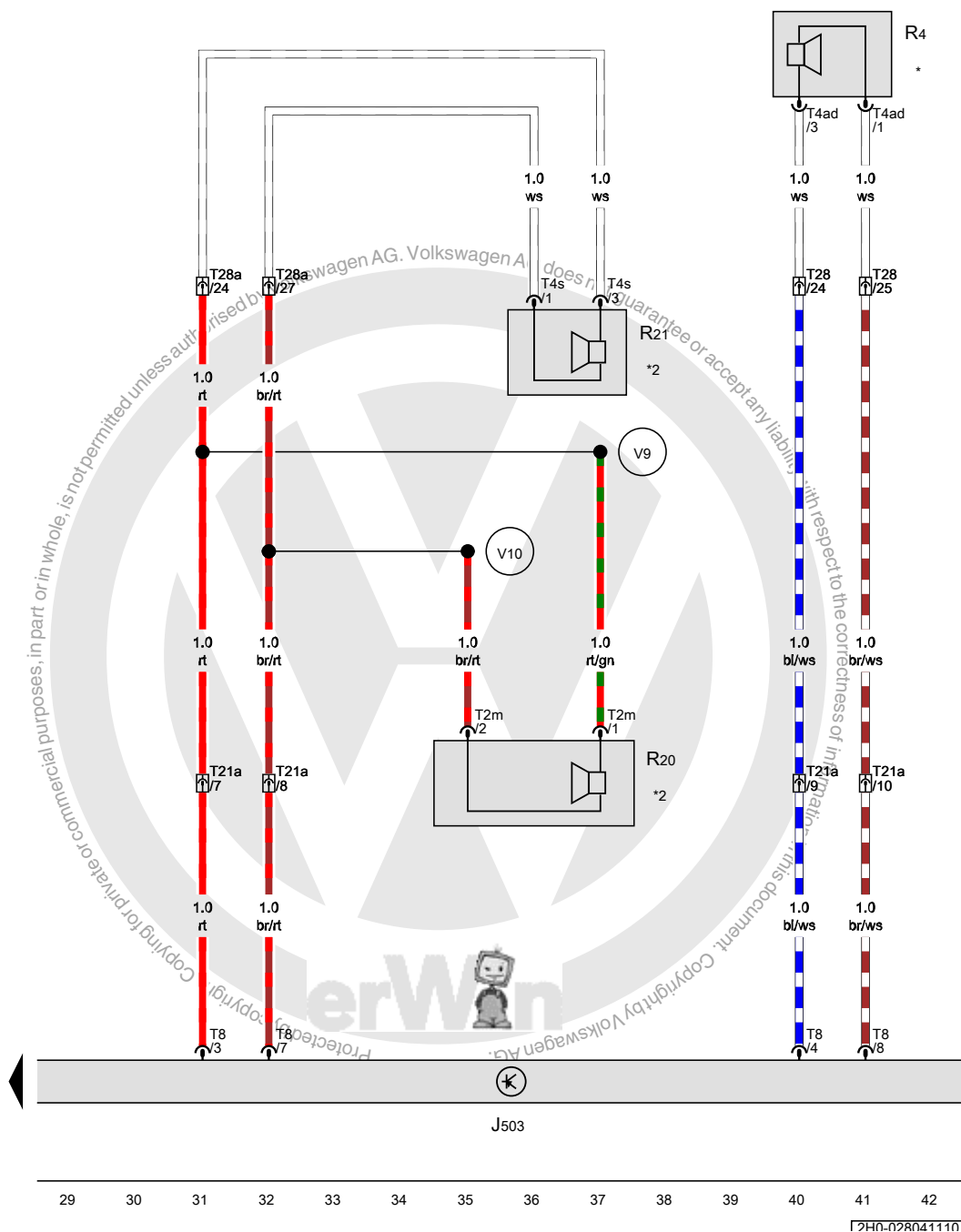
- J503 Control unit with display for radio and navigation
- J519 Onboard supply control unit
- R2 Front left loudspeaker
- R3 Front right loudspeaker
- R38 Telephone microphone
- T4s 4-pin connector
- T4w 4-pin connector
- T8 8-pin connector
- T8a 8-pin connector
- T12d 12-pin connector
- T16 16-pin connector
- T21 21-pin connector, on relay carrier
- T21a 21-pin connector, on relay carrier
- T28a 28-pin connector, on left A-pillar
- T28b 28-pin connector, on right A-pillar
- T73b 73-pin connector
- U31 Diagnostic connection

A146 Connection (convenience CAN bus, high), in dash panel wiring harness

A147 Connection (convenience CAN bus, low), in dash panel wiring harness

\* Only models with 2 loudspeakers (8RD)

\*2 Only models with mobile telephone/ preparation for mobile telephone



Control unit with display for radio and navigation, Rear left loudspeaker, Front left treble loudspeaker, Front left bass loudspeaker

J503 Control unit with display for radio and navigation

R4 Rear left loudspeaker

R20 Front left treble loudspeaker

R21 Front left bass loudspeaker

T2m 2-pin connector

T4ad 4-pin connector

T4s 4-pin connector

T8 8-pin connector

T21a 21-pin connector, on relay carrier

T28 28-pin connector, on left B-pillar

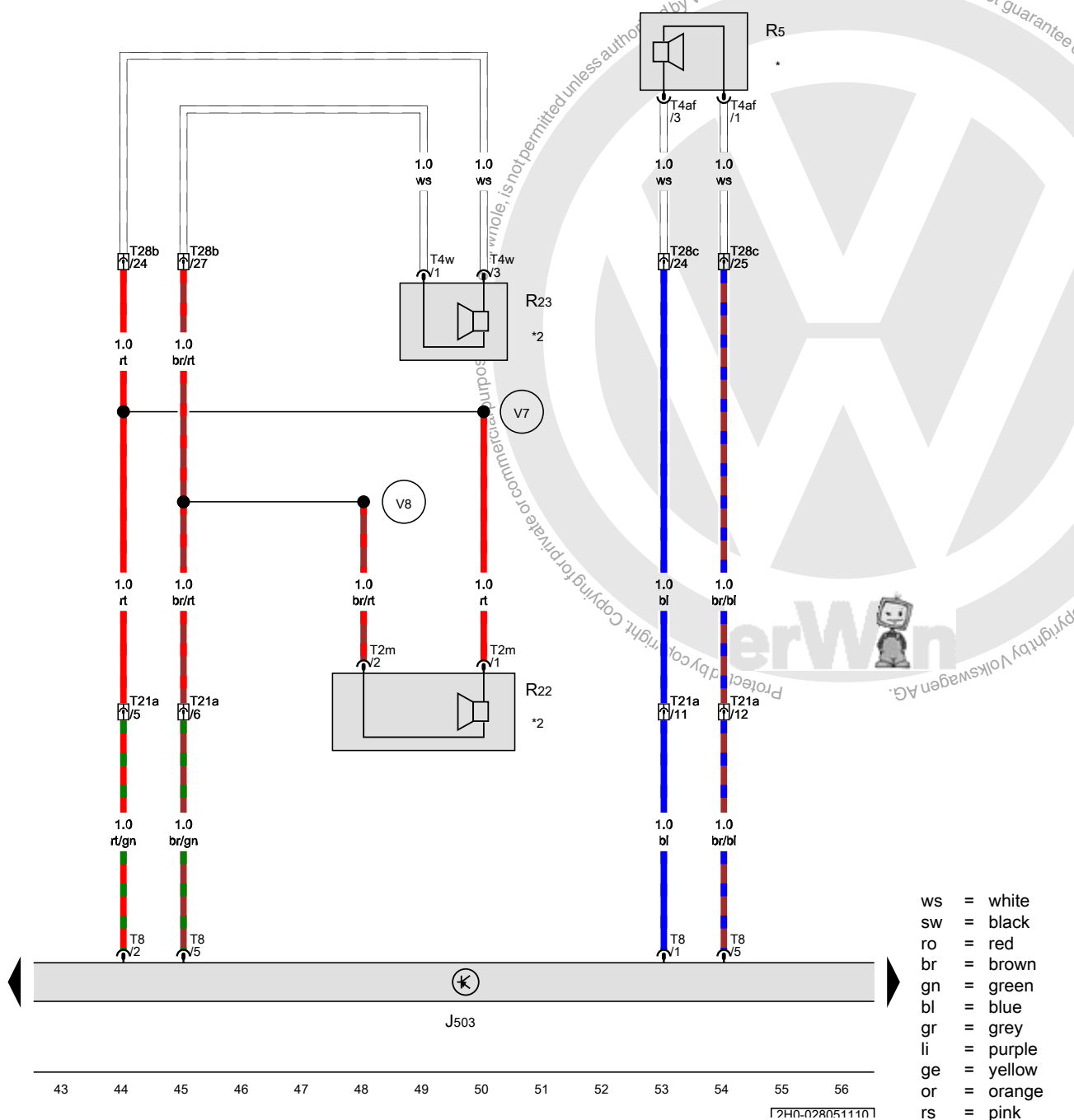
T28a 28-pin connector, on left A-pillar

V9 Connection (positive, front right loudspeaker), in loudspeaker wiring harness

V10 Connection (negative, front right loudspeaker), in loudspeaker wiring harness

\* Only models with equipment (6-passive loudspeakers)

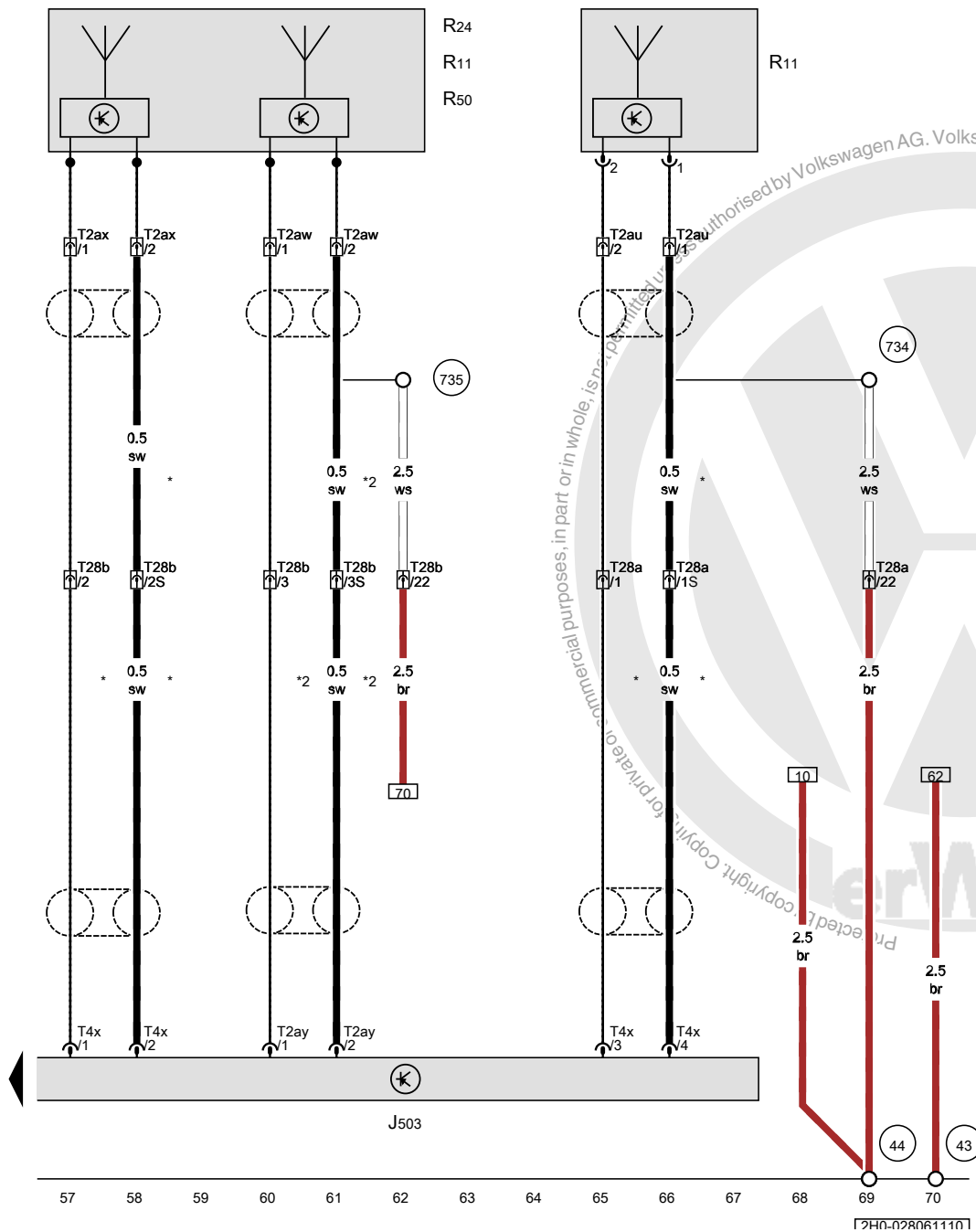
\*2 Only models with 4 or 6 loudspeakers



Control unit with display for radio and navigation, Rear right loudspeaker, Front right treble loudspeaker, Front right bass loudspeaker

- J503 Control unit with display for radio and navigation
- R5 Rear right loudspeaker
- R22 Front right treble loudspeaker
- R23 Front right bass loudspeaker
- T2m 2-pin connector
- T4af 4-pin connector
- T4w 4-pin connector
- T8 8-pin connector
- T21a 21-pin connector, on relay carrier
- T28b 28-pin connector, on right A-pillar
- T28c 28-pin connector, on right B-pillar
- V7 Connection (positive, front left loudspeaker), in loudspeaker wiring harness
- V8 Connection (negative, front left loudspeaker), in loudspeaker wiring harness
- \* Only models with equipment (6-passive loudspeakers)
- \*2 Only models with 4 or 6 loudspeakers

ws = white  
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# Control unit with display for radio and navigation, Aerial, Aerial amplifier, GPS aerial

- J503 Control unit with display for radio and navigation
- R11 Aerial
- R24 Aerial amplifier
- R50 GPS aerial
- T2au 2-pin connector, in left door, near exterior mirror
- T2aw 2-pin connector, in right door, near exterior mirror
- T2ax 2-pin connector, in right door, near exterior mirror
- T2ay 2-pin connector
- T4x 4-pin connector
- T28a 28-pin connector, on left A-pillar
- T28b 28-pin connector, on right A-pillar

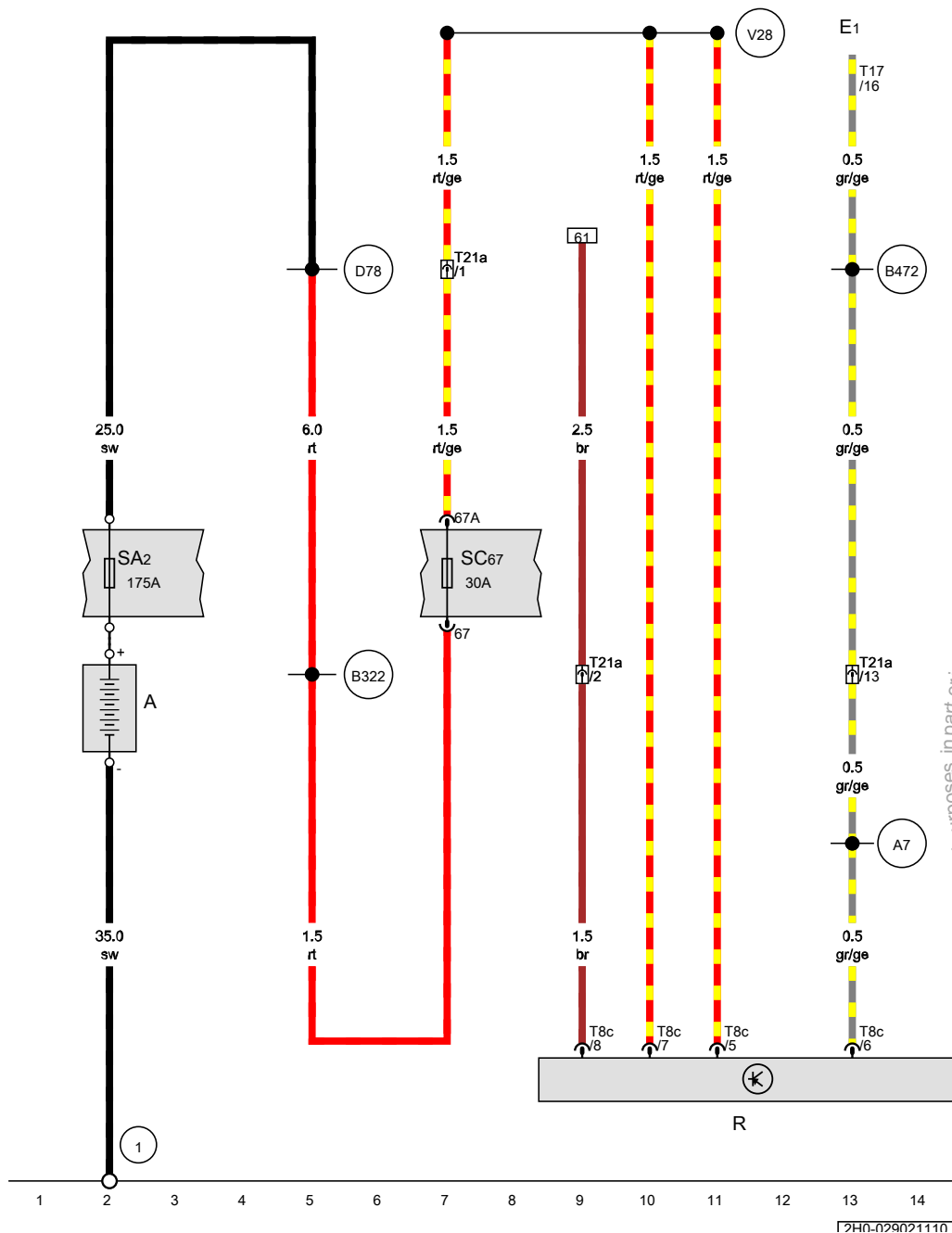
- 43 Earth point, lower part of right A-pillar
- 44 Earth point, lower part of left A-pillar
- 734 Earth point in front left door
- 735 Earth point in front right door
- \* Aerial connection for radio
- \*2 Aerial connection for GPS

**Radio system , (8AN),(8AG),(LOR)**

From December 2009

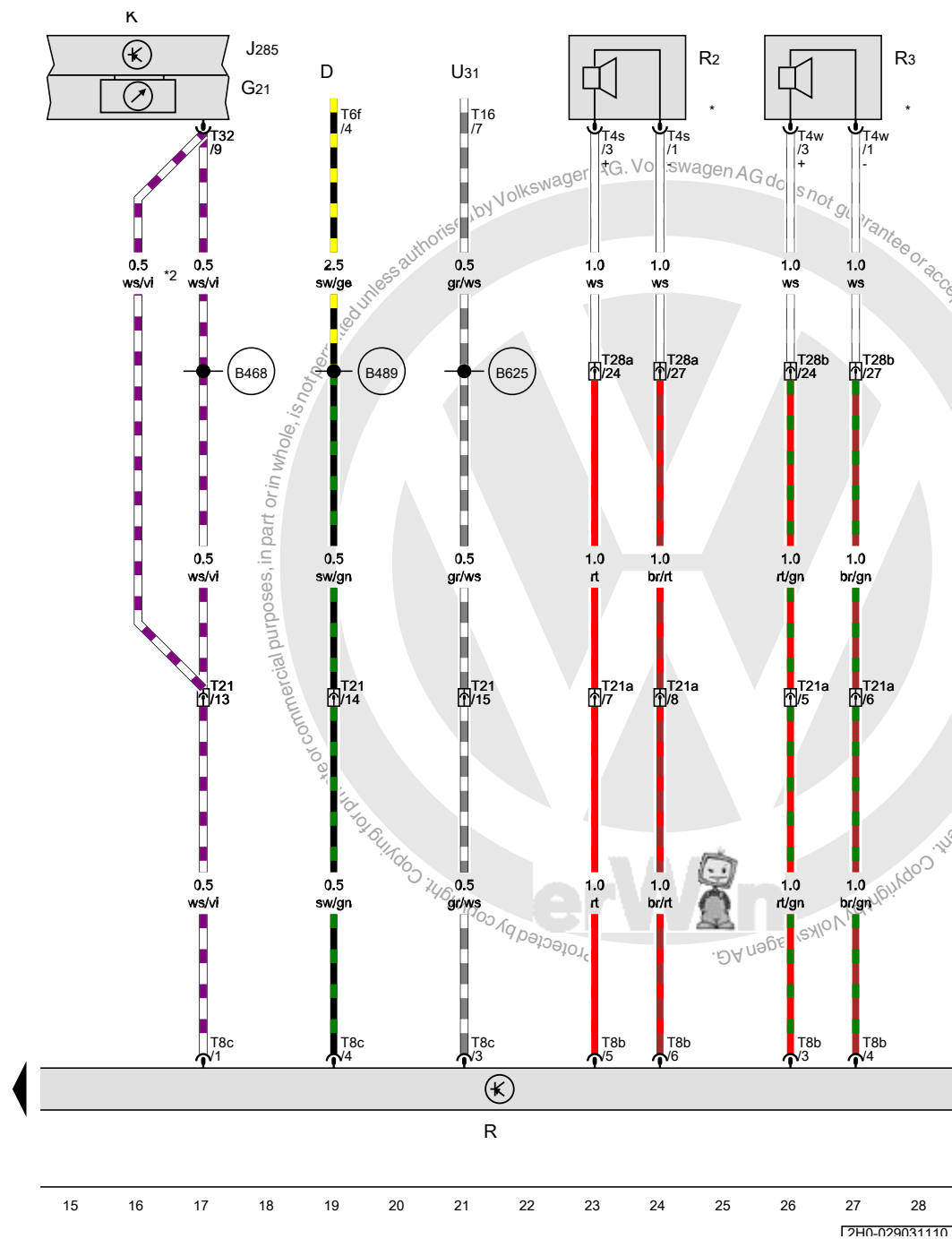


Battery, Light switch, Radio, Fuse 2 in fuse holder A, Fuse 67 on fuse holder C



- A Battery
- E1 Light switch
- R Radio
- SA2 Fuse 2 in fuse holder A
- SC67 Fuse 67 on fuse holder C
- T8c 8-pin connector
- T17 17-pin connector
- T21a 21-pin connector, on relay carrier
- 1 Earth strap, battery - body
- A7 Positive connection (58 D1), in dash panel wiring harness
- B322 Positive connection 8 (30a) in main wiring harness
- B472 Connection 8, in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness
- V28 Connection 1, in radio wiring harness

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**Dash panel insert, Radio, Front left loudspeaker, Front right loudspeaker, Diagnostic connection**

- D Ignition/starter switch
- G21 Speedometer
- J285 Control unit in dash panel insert
- K Dash panel insert
- R Radio
- R2 Front left loudspeaker
- R3 Front right loudspeaker
- T4s 4-pin connector
- T4w 4-pin connector
- T6f 6-pin connector
- T8b 8-pin connector
- T8c 8-pin connector
- T16 16-pin connector
- T21 21-pin connector, on relay carrier
- T21a 21-pin connector, on relay carrier
- T28a 28-pin connector, on left A-pillar
- T28b 28-pin connector, on right A-pillar
- T32 32-pin connector
- U31 Diagnostic connection

B468 Connection 4, in main wiring harness

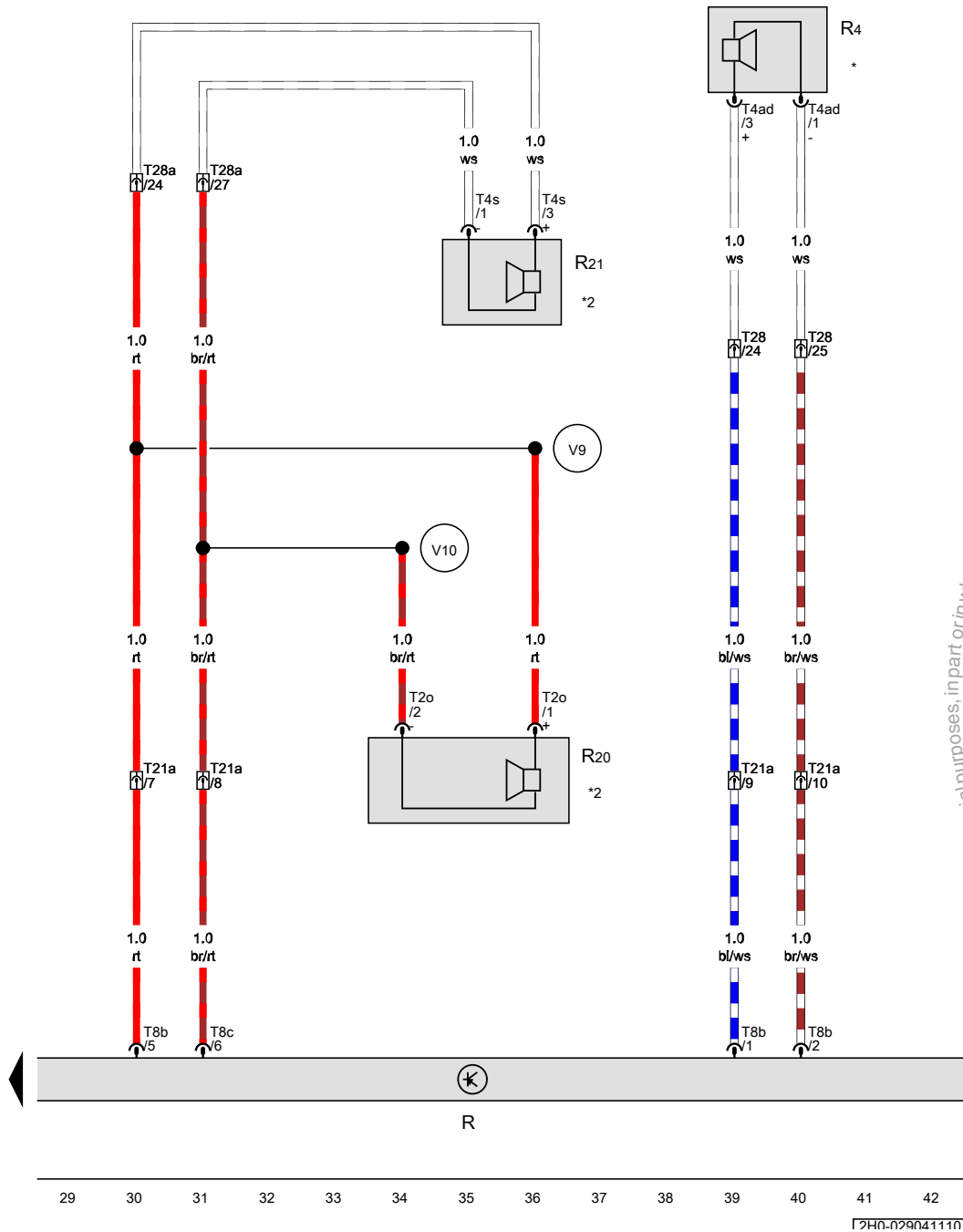
B489 Connection 25, in main wiring harness

B625 Connection (K-diagnosis wire), in main wiring harness

\* Only models with 2 loudspeakers (8RD)

\*2 Only models with no electric interface

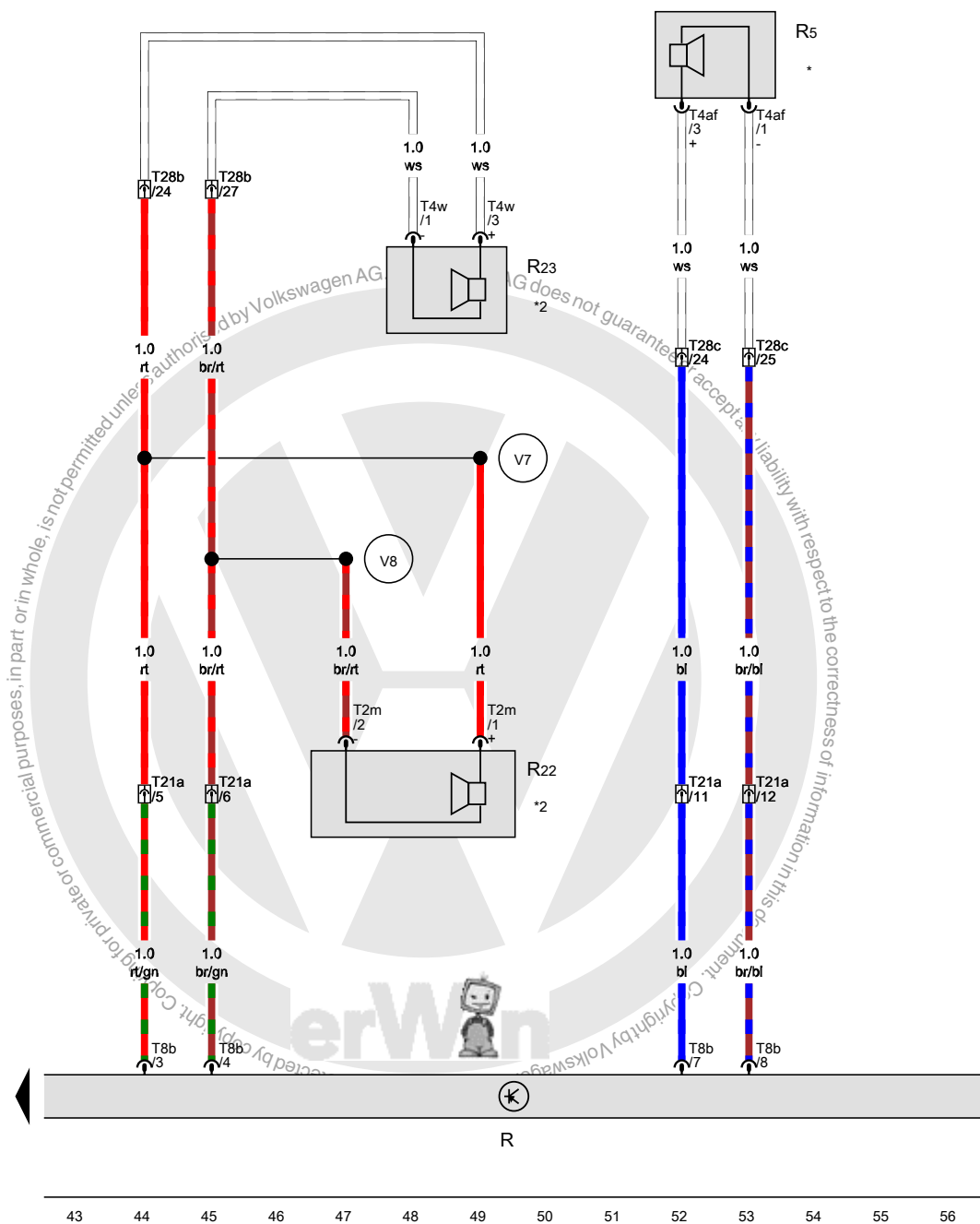




Radio, Rear left loudspeaker, Front left treble loudspeaker, Front left bass loudspeaker

- R Radio
- R4 Rear left loudspeaker
- R20 Front left treble loudspeaker
- R21 Front left bass loudspeaker
- T2o 2-pin connector
- T4ad 4-pin connector
- T4s 4-pin connector
- T8b 8-pin connector
- T8c 8-pin connector
- T21a 21-pin connector
- T28 28-pin connector, on left B-pillar
- T28a 28-pin connector, on left A-pillar
- V9 Connection (positive, front right loudspeaker), in loudspeaker wiring harness
- V10 Connection (negative, front right loudspeaker), in loudspeaker wiring harness
- \* Only models with equipment (6-passive loudspeakers)
- \*2 Only models with 4 or 6 loudspeakers

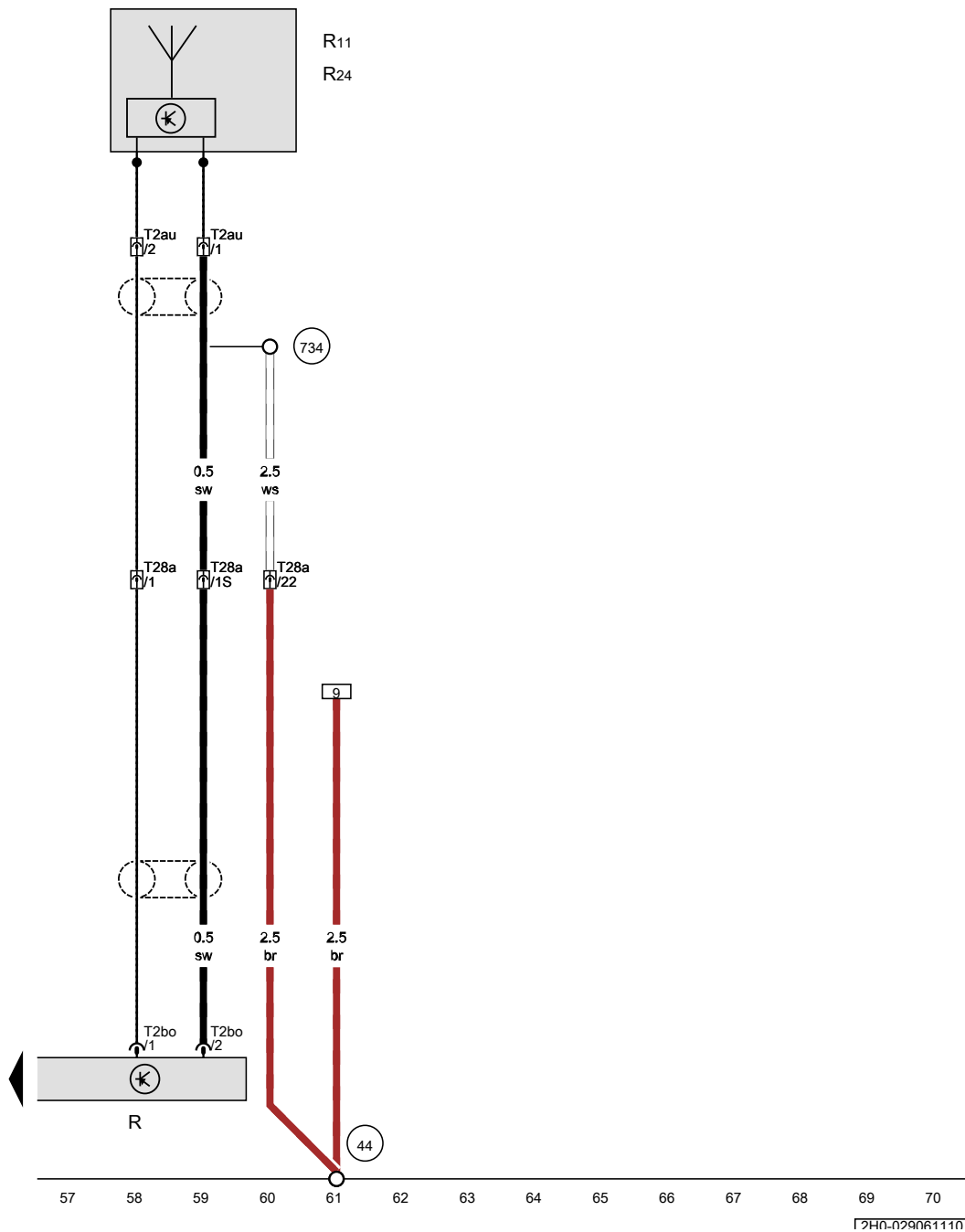
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Radio, Rear right loudspeaker, Front right treble loudspeaker, Front right bass loudspeaker

- R Radio
- R5 Rear right loudspeaker
- R22 Front right treble loudspeaker
- R23 Front right bass loudspeaker
- T2m 2-pin connector
- T4af 4-pin connector
- T4w 4-pin connector
- T8b 8-pin connector
- T21a 21-pin connector, on relay carrier
- T28b 28-pin connector, on right A-pillar
- T28c 28-pin connector, on right B-pillar
- V7 Connection (positive, front left loudspeaker), in loudspeaker wiring harness
- V8 Connection (negative, front left loudspeaker), in loudspeaker wiring harness
- \* Only models with equipment (6-passive loudspeakers)
- \*2 Only models with 4 or 6 loudspeakers

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### Radio, Aerial

- R Radio
- R11 Aerial
- R24 Aerial amplifier
- T2au 2-pin connector, in left door, near exterior mirror
- T2bo 2-pin connector
- T28a 28-pin connector, on left A-pillar
- 44 Earth point, lower part of left A-pillar
- 734 Earth point in front left door

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## Parking aid (PDC)

From November 2010

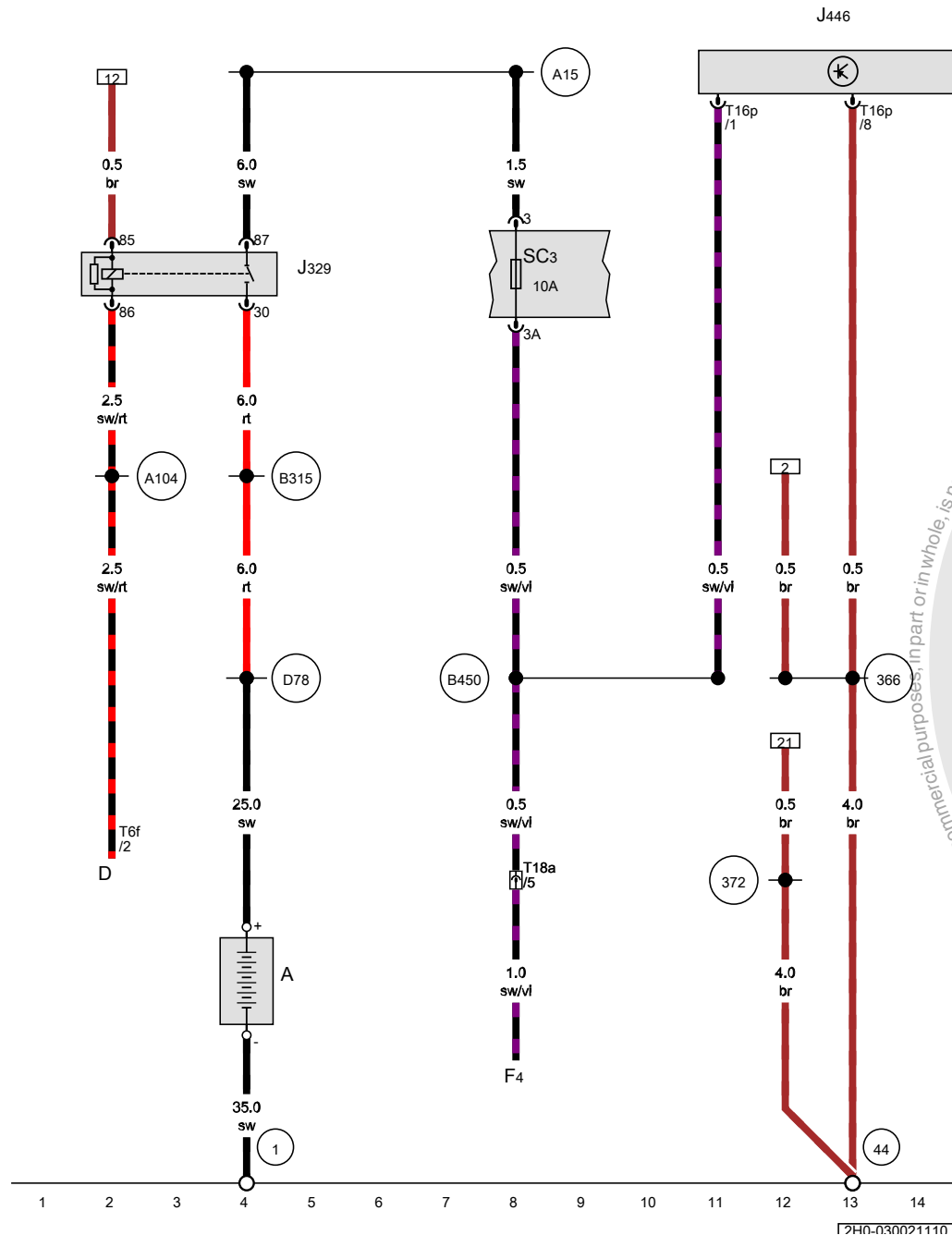


Parking aid control unit

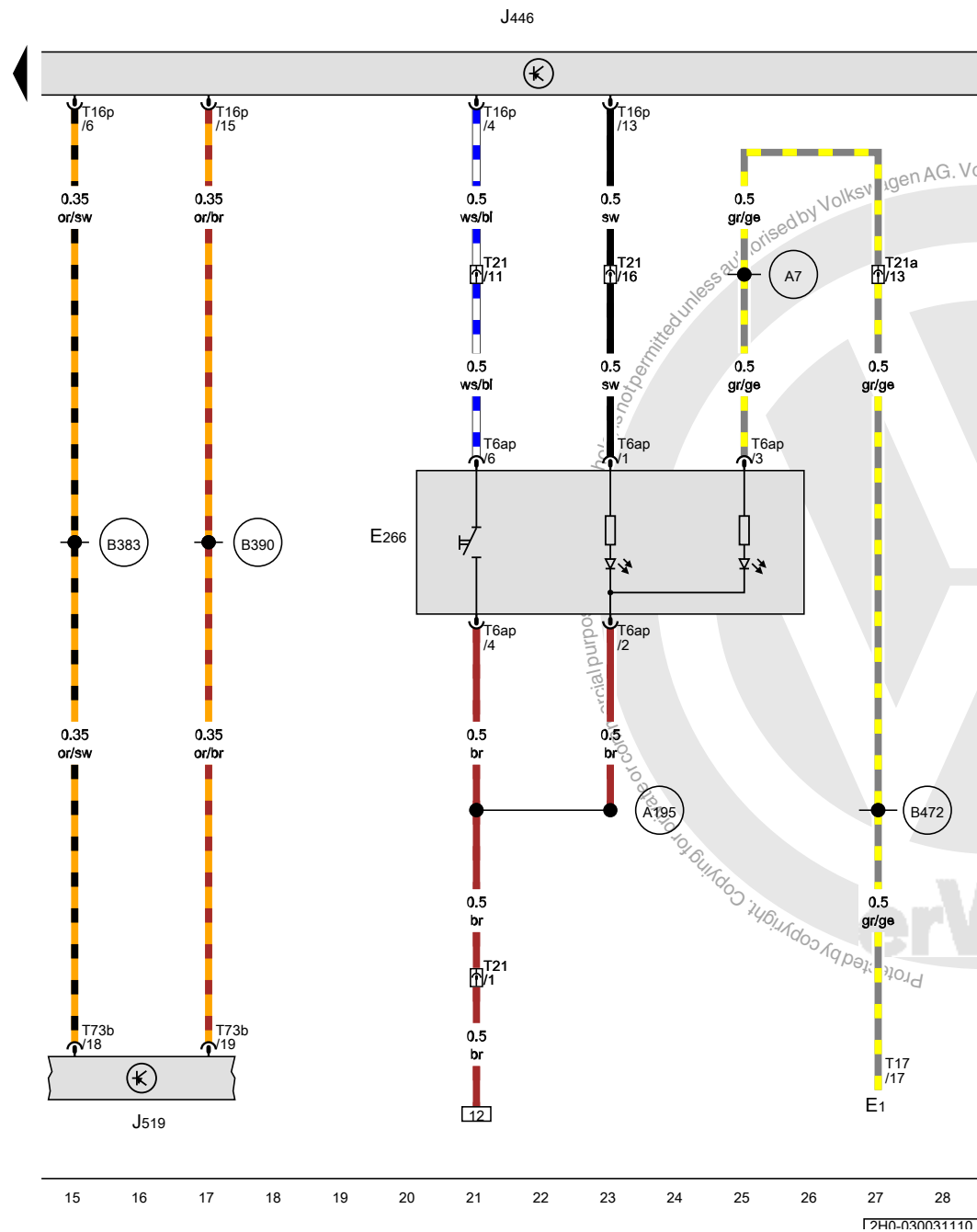
- A Battery
- D Ignition/starter switch
- F4 Reversing light switch
- J329 Terminal 15 voltage supply relay
- J446 Parking aid control unit, lower part of A-pillar, front passenger side
- SC3 Fuse 3 on fuse holder C
- T6f 6-pin connector
- T16p 16-pin connector
- T18a 18-pin connector, near engine control unit

- 1 Earth strap, battery - body
- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- 372 Earth connection 7, in main wiring harness
- A15 Positive connection (15), in instrument wiring harness
- A104 Positive connection 2 (15), in dash panel wiring harness
- B315 Positive connection 1 (30a) in main wiring harness
- B450 Connection 1 (PDC), in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness

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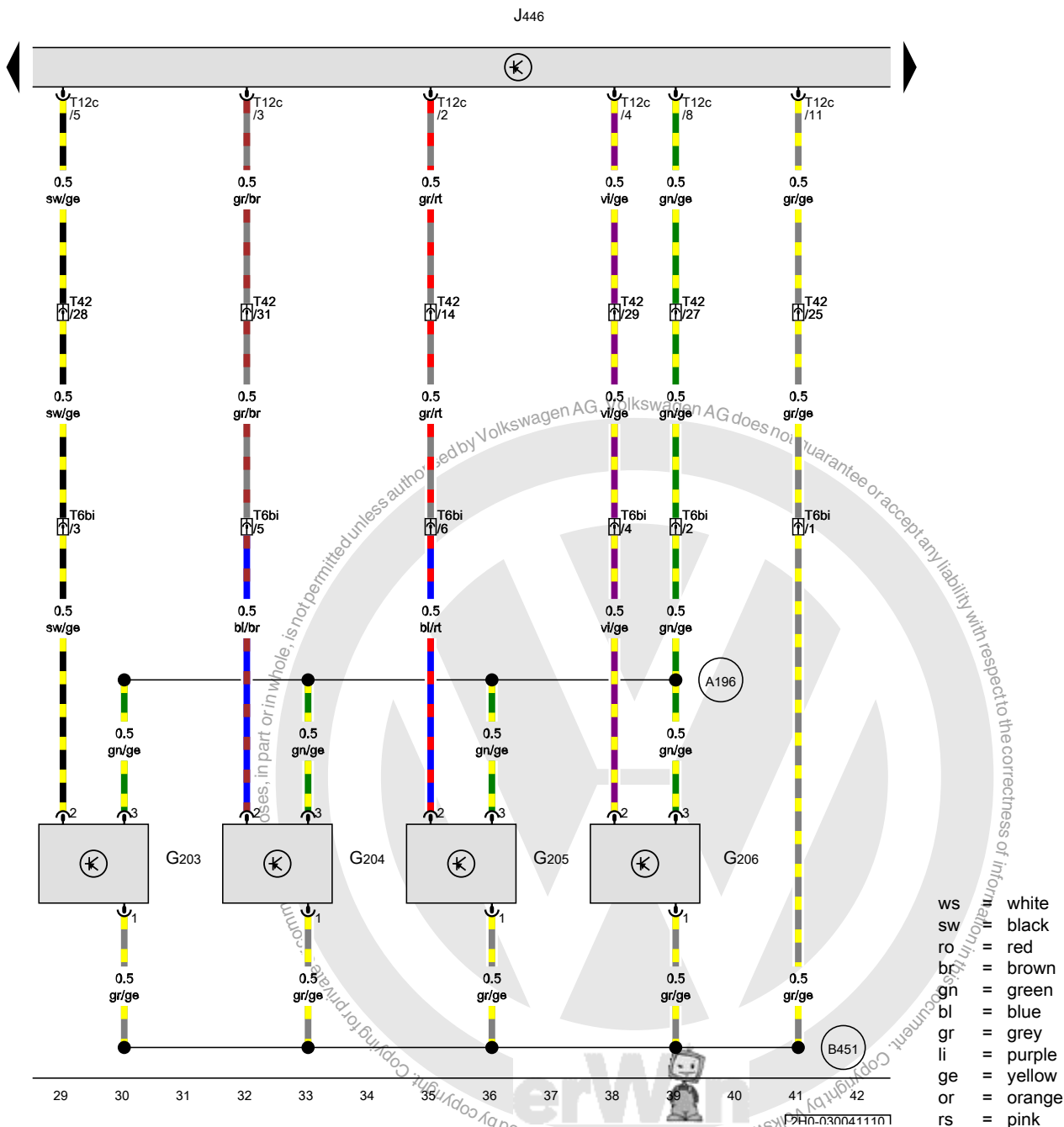


Parking aid button, Parking aid control unit



- E1 Light switch
- E266 Parking aid button
- J446 Parking aid control unit, lower part of A-pillar, front passenger side
- J519 Onboard supply control unit
- T6ap 6-pin connector
- T16p 16-pin connector
- T17 17-pin connector
- T21 21-pin connector
- T21a 21-pin connector, on relay carrier
- T73b 73-pin connector
- A7 Positive connection (58 D1), in dash panel wiring harness
- A195 Connection 1 (PDC), in dash panel insert wiring harness
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- B472 Connection 8, in main wiring harness

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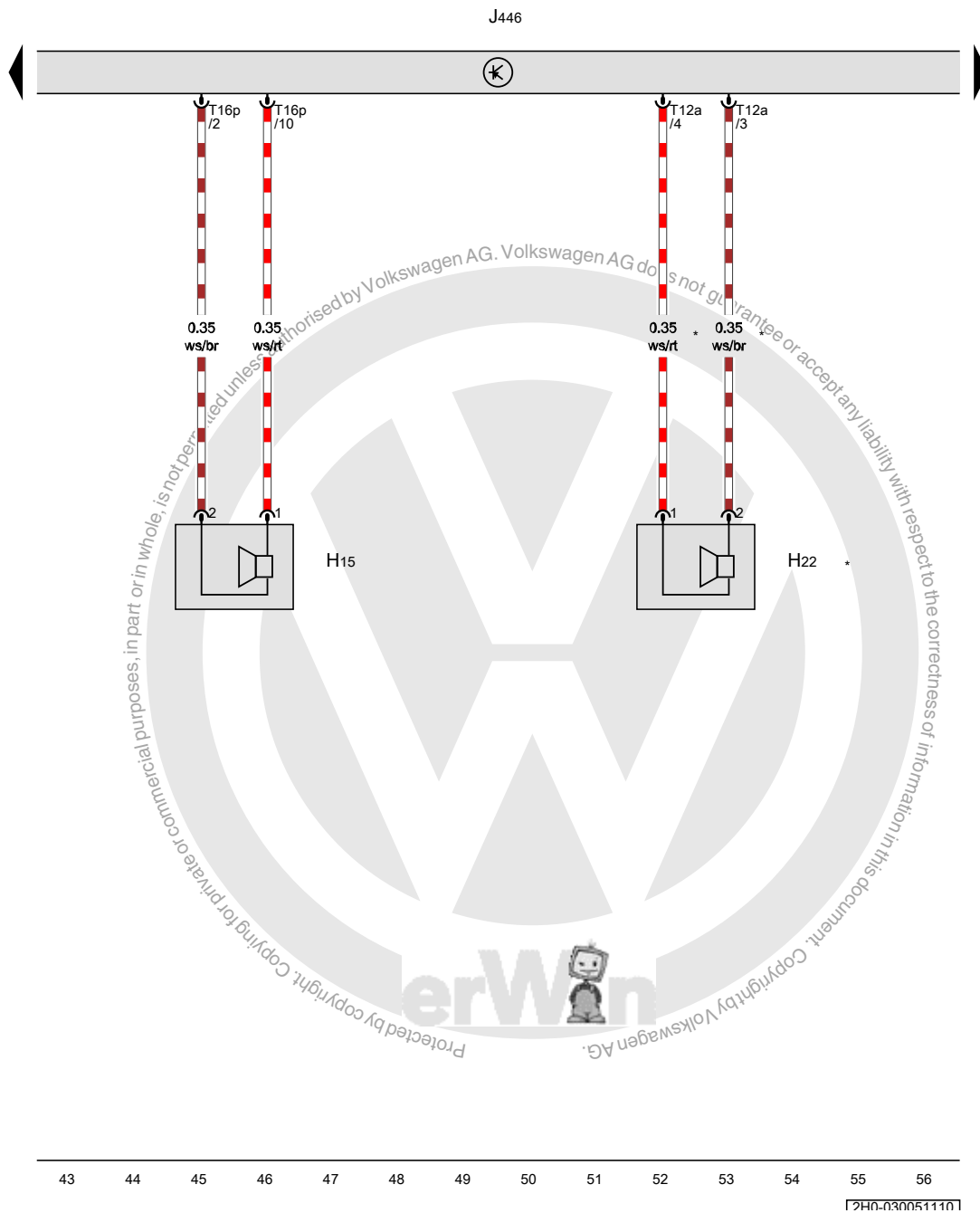


Rear left parking aid sender, Rear centre left parking aid sender, Rear centre right parking aid sender, Rear right parking aid sender, Parking aid control unit

- G203 Rear left parking aid sender
- G204 Rear centre left parking aid sender
- G205 Rear centre right parking aid sender
- G206 Rear right parking aid sender
- J446 Parking aid control unit, lower part of A-pillar, front passenger side
- T6bi 6-pin connector, on underbody, near cross panel
- T12c 12-pin connector
- T42 42-pin connector, near handbrake lever
- A196 Connection 2 (PDC), in dash panel insert wiring harness
- B451 Connection 2 (PDC), in main wiring harness

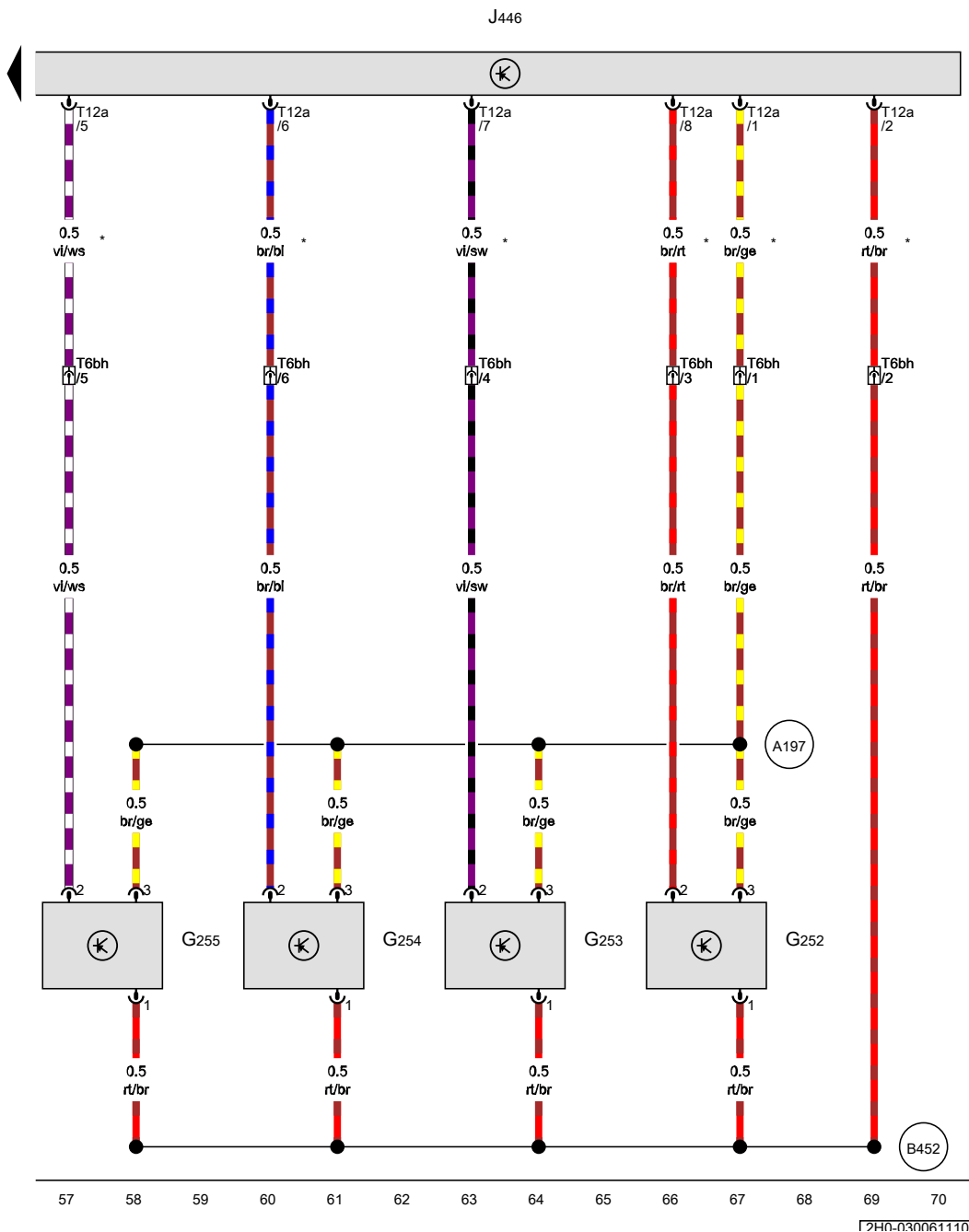
Rear parking aid warning buzzer, Front parking aid warning buzzer, Parking aid control unit

- H15 Rear parking aid warning buzzer, behind right C-pillar trim
- H22 Front parking aid warning buzzer
- J446 Parking aid control unit, lower part of A-pillar, front passenger side
- T12a 12-pin connector
- T16p 16-pin connector
- \* Only models with parking aid, front/rear



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





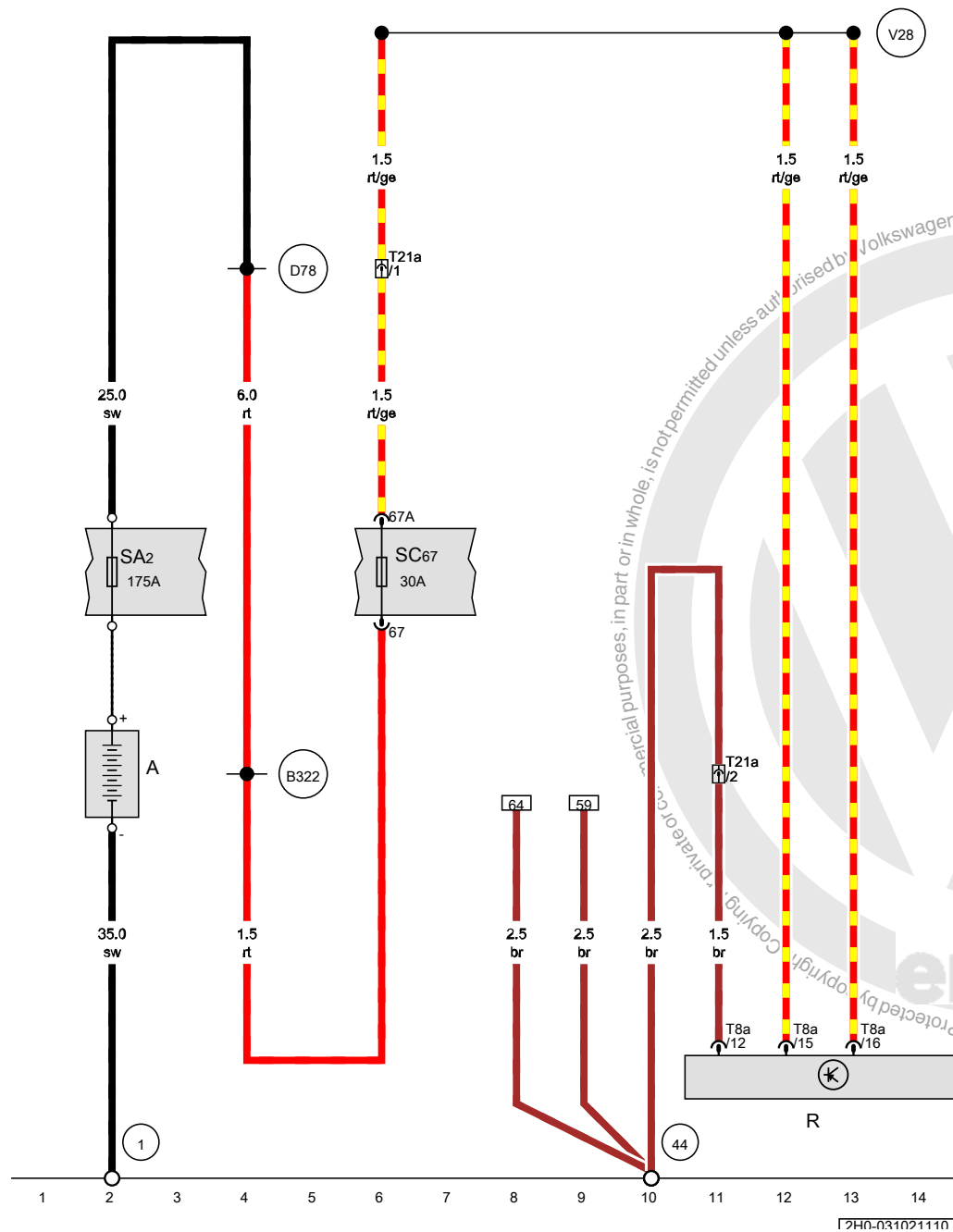
Front right parking aid sender, Front centre right parking aid sender, Front centre left parking aid sender, Front left parking aid sender, Parking aid control unit

- G252 Front right parking aid sender
- G253 Front centre right parking aid sender
- G254 Front centre left parking aid sender
- G255 Front left parking aid sender
- J446 Parking aid control unit, lower part of A-pillar, front passenger side
- T6bh 6-pin connector, behind front bumper on left
- T12a 12-pin connector
- A197 Connection 3 (PDC), in dash panel insert wiring harness
- B452 Connection 3 (PDC), in main wiring harness
- \* Only models with parking aid, front/rear

## Radio system , (8UA),(8AE),(8DD)

From December 2009

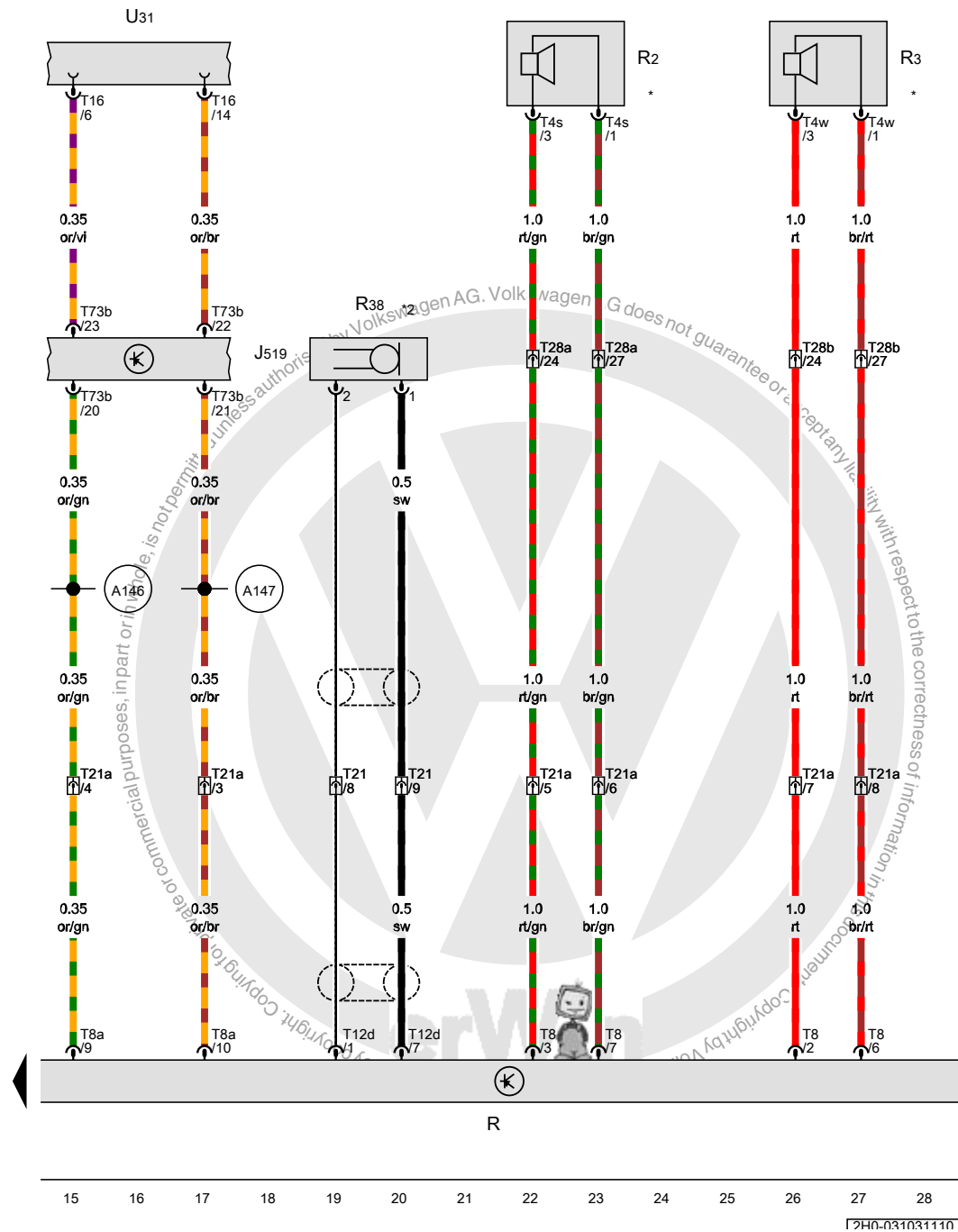




**Battery, Radio, Fuse 2 in fuse holder A, Fuse 67 on fuse holder C**

- |      |   |
|------|---|
| A    | Battery   |
| R    | Radio   |
| SA2  | Fuse 2 in fuse holder A   |
| SC67 | Fuse 67 on fuse holder C  |
| T8a  | 8-pin connector   |
| T21a | 21-pin connector, on relay carrier                                |
| 1    | Earth strap, battery - body                                       |
| 44   | Earth point, lower part of left A-pillar                          |
| B322 | Positive connection 8 (30a) in main wiring harness                |
| D78  | Positive connection 1 (30a), in engine compartment wiring harness |
| V28  | Connection 1, in radio wiring harness                             |

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



**Radio, Front left loudspeaker, Front right loudspeaker, Telephone microphone, Diagnostic connection**

- J519 Onboard supply control unit
- R Radio
- R2 Front left loudspeaker
- R3 Front right loudspeaker
- R38 Telephone microphone
- T4s 4-pin connector
- T4w 4-pin connector
- T8 8-pin connector
- T8a 8-pin connector
- T12d 12-pin connector
- T16 16-pin connector
- T21 21-pin connector, on relay carrier
- T21a 21-pin connector, on relay carrier
- T28a 28-pin connector, on left A-pillar
- T28b 28-pin connector, on right A-pillar
- T73b 73-pin connector
- U31 Diagnostic connection, near driver side A-pillar
- A146 Connection (convenience CAN bus, high), in dash panel wiring harness
- A147 Connection (convenience CAN bus, low), in dash panel wiring harness
- \* Only models with 2 loudspeakers (8RD)
- \*2 Only models with mobile telephone/ preparation for mobile telephone

Radio, Rear left loudspeaker, Front left treble loudspeaker,  
Front left bass loudspeaker

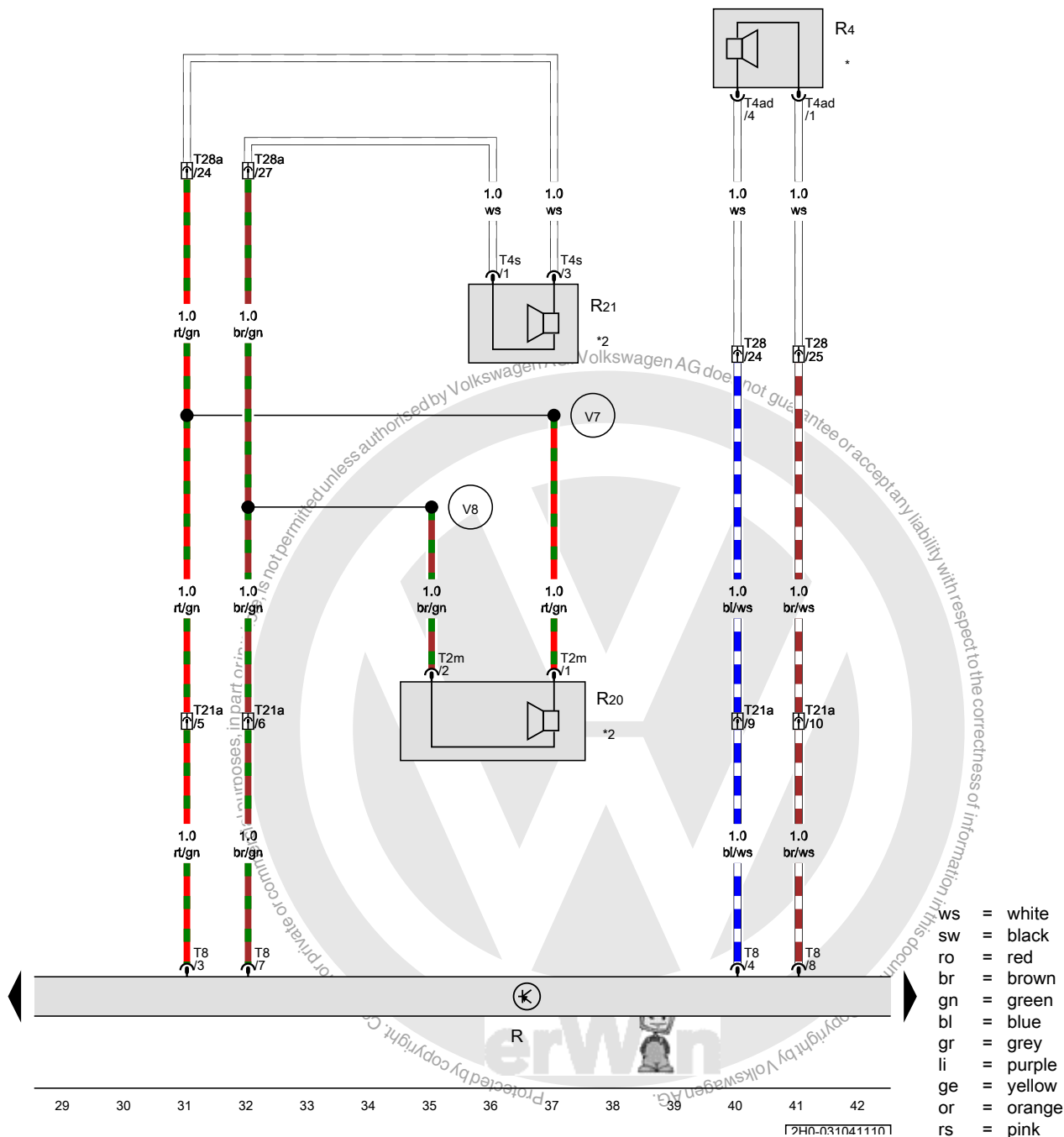
- R Radio
- R4 Rear left loudspeaker
- R20 Front left treble loudspeaker
- R21 Front left bass loudspeaker
- T2m 2-pin connector
- T4ad 4-pin connector
- T4s 4-pin connector
- T8 8-pin connector
- T21a 21-pin connector, on relay carrier
- T28 28-pin connector
- T28a 28-pin connector

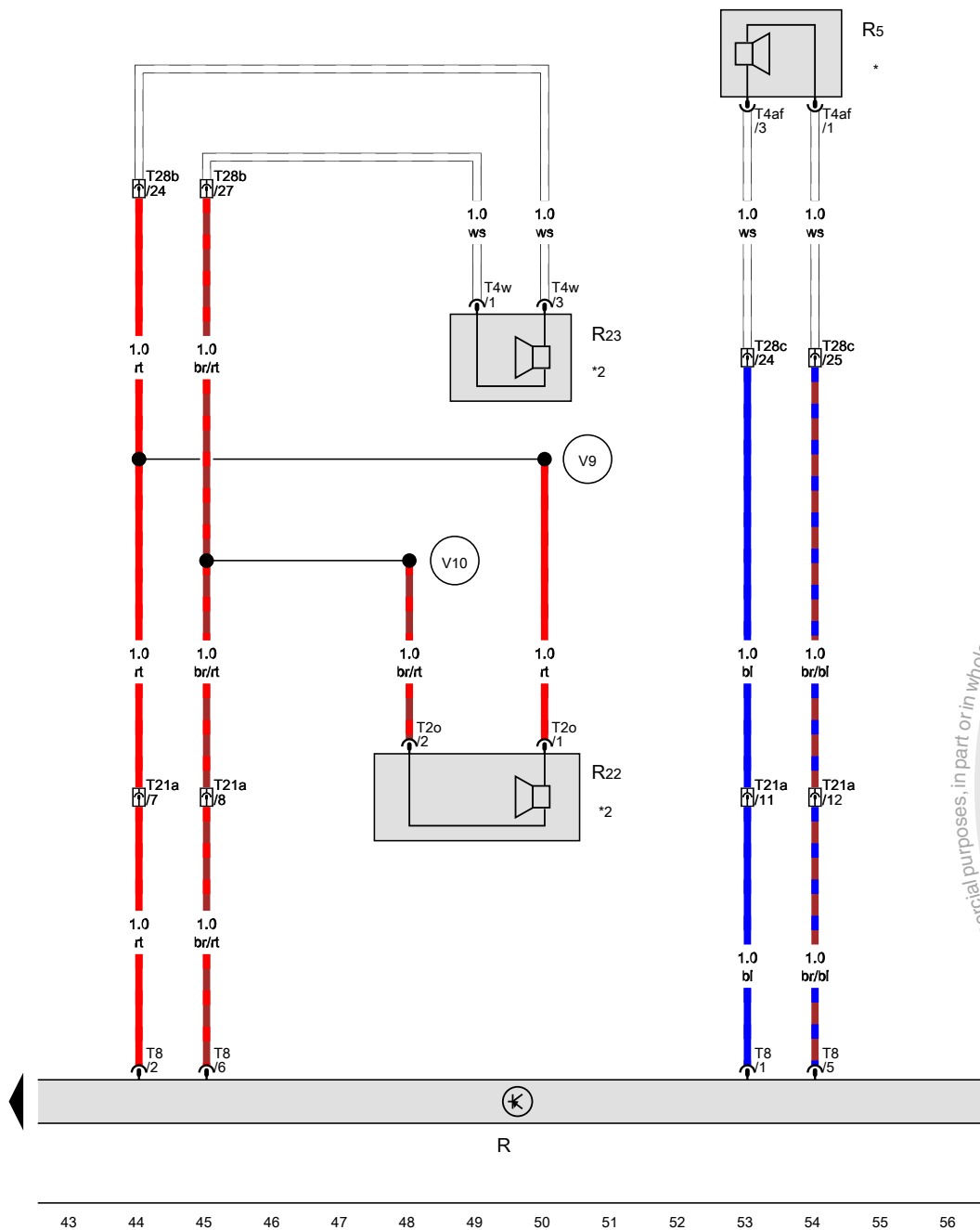
V7 Connection (positive, front left loudspeaker), in loudspeaker wiring harness

V8 Connection (negative, front left loudspeaker), in loudspeaker wiring harness

\* Only models with equipment (6-passive loudspeakers)

\*2 Only models with 4 loudspeakers (8RE)





Radio, Rear right loudspeaker, Front right treble loudspeaker, Front right bass loudspeaker

- R Radio
- R5 Rear right loudspeaker
- R22 Front right treble loudspeaker
- R23 Front right bass loudspeaker
- T2o 2-pin connector
- T4af 4-pin connector
- T4w 4-pin connector
- T8 8-pin connector
- T21a 21-pin connector
- T28b 28-pin connector
- T28c 28-pin connector

- V9 Connection (positive, front right loudspeaker), in loudspeaker wiring harness
- V10 Connection (negative, front right loudspeaker), in loudspeaker wiring harness

- \* Only models with equipment (6-passive loudspeakers)
- \*2 Only models with 4 loudspeakers (8RE)

- ws = white
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- ro = red
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- gn = green
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- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

Radio, Aerial, Aerial amplifier

- R Radio
- R11 Aerial
- R24 Aerial amplifier
- T2au 2-pin connector, in left door, near exterior mirror
- T2aw 2-pin connector, in right door, near exterior mirror
- T2az 2-pin connector
- T4x 4-pin connector
- T28a 28-pin connector, on left A-pillar
- T28b 28-pin connector, on right A-pillar

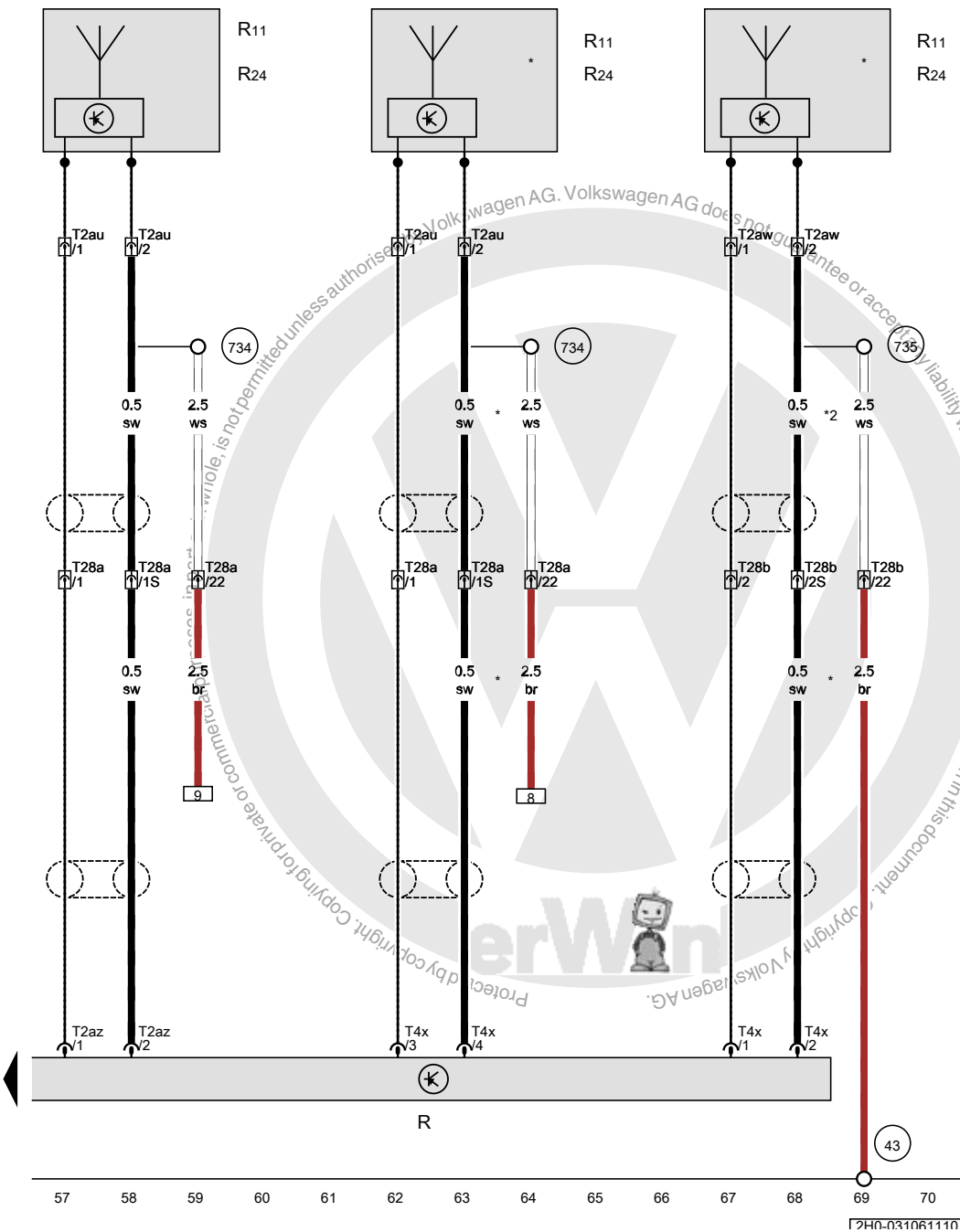
43 Earth point, lower part of right A-pillar

734 Earth point in front left door

735 Earth point in front right door

\* Only models with radio RCD 310/RCD 510

\*2 Only models with radio and amplifier



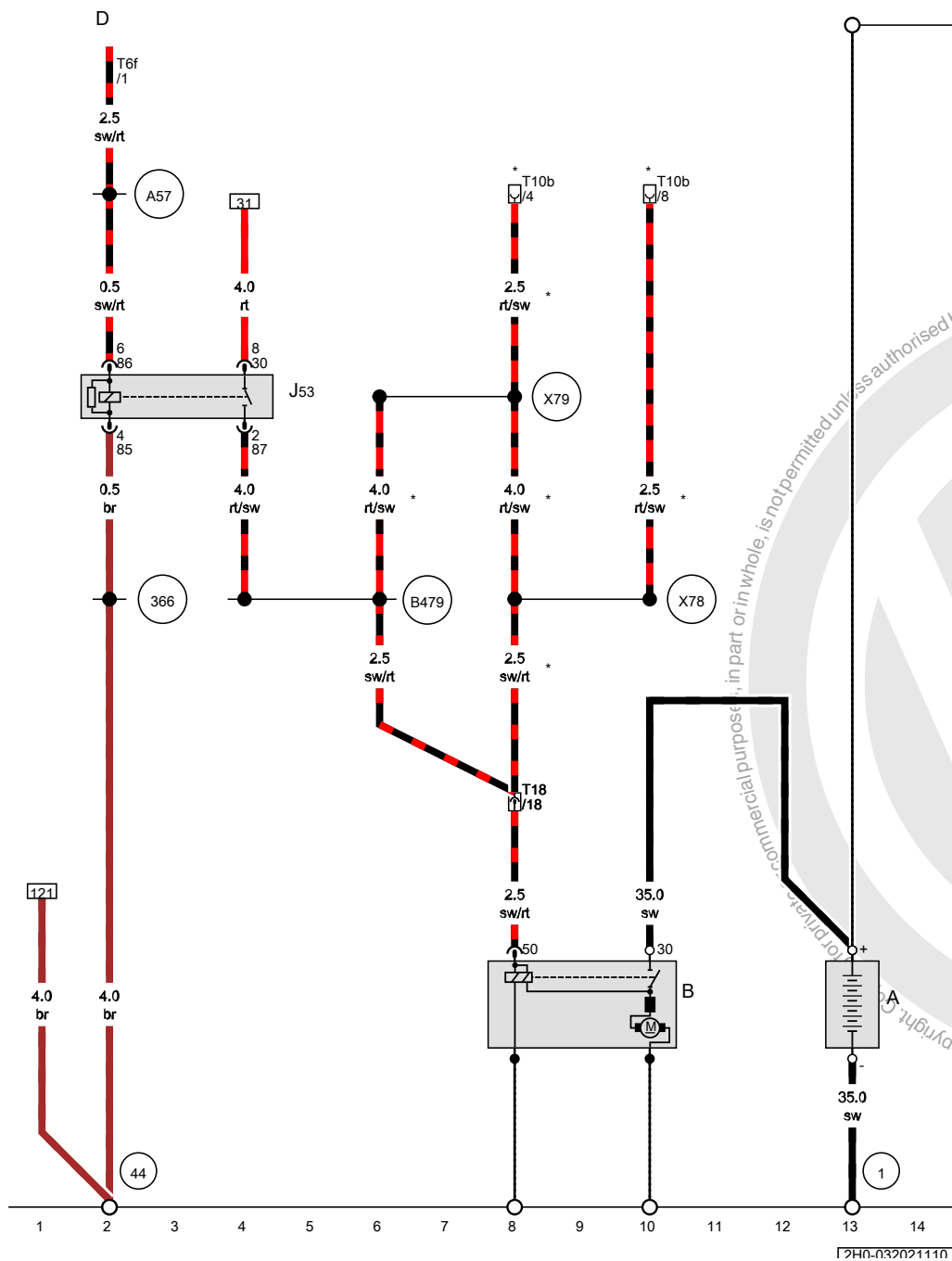
- ws = white
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- gn = green
- bl = blue
- gr = grey
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- ge = yellow
- or = orange
- rs = pink

## 2.0l petrol engine , CFPA

From December 2010



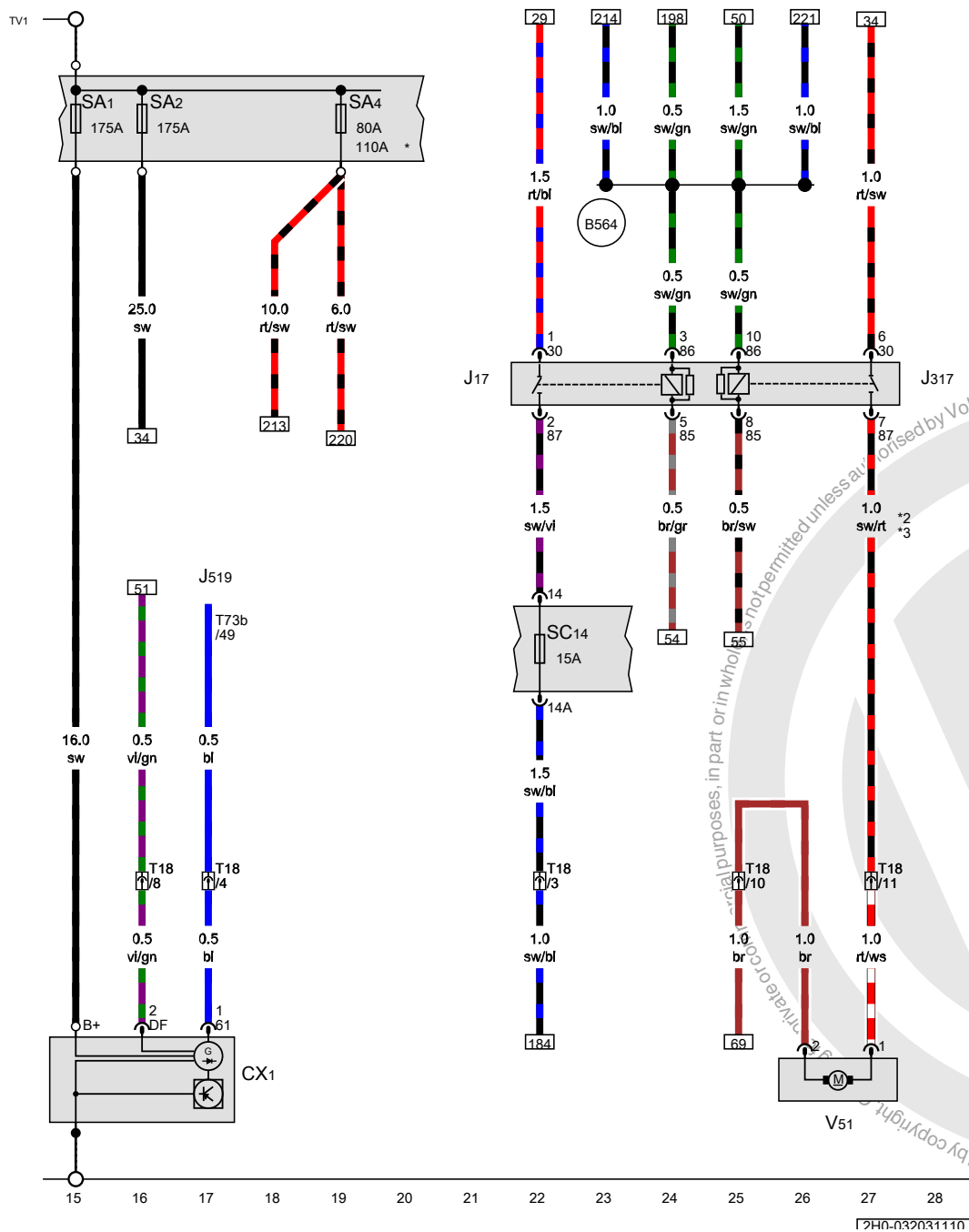




### Battery, Starter, Starter motor relay

- A Battery
- B Starter
- D Ignition/starter switch
- J53 Starter motor relay
- T6f 6-pin connector
- T10b 10-pin connector, in left footwell, near centre console
- T18 18-pin connector, near engine control unit
- 1 Earth strap, battery - body
- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- A57 Positive connection 3 (30), in dash panel wiring harness
- B479 Connection 15, in main wiring harness
- X78 Connection 1, in optional equipment wiring harness
- X79 Connection 2, in optional equipment wiring harness
- \* Only models with electric interface for external use

ws = white  
 sw = black  
 ro = red  
 br = brown  
 gn = green  
 bl = blue  
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 or = orange  
 rs = pink



Alternator with voltage regulator, Fuel pump relay, Terminal 30 voltage supply relay, Fuse 1 in fuse holder A, Fuse 4 in fuse holder A, Fuse 14 on fuse holder C, Continued coolant circulation pump

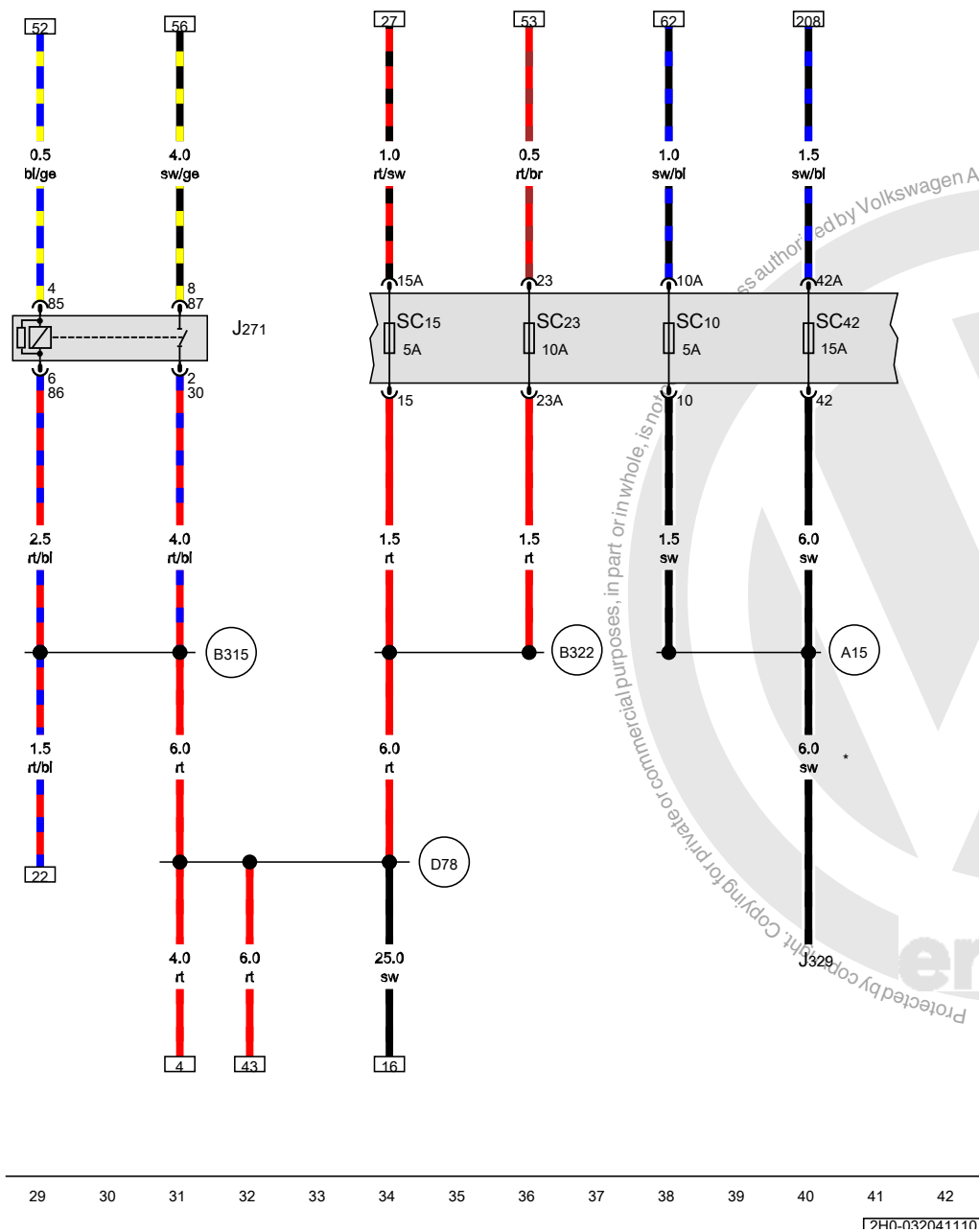
- CX1 Alternator with voltage regulator
- J17 Fuel pump relay
- J317 Terminal 30 voltage supply relay
- J519 Onboard supply control unit
- SA1 Fuse 1 in fuse holder A
- SA2 Fuse 2 in fuse holder A
- SA4 Fuse 4 in fuse holder A
- SC14 Fuse 14 on fuse holder C
- T18 18-pin connector, near engine control unit
- T73b 73-pin connector
- V51 Continued coolant circulation pump
- B564 Connection 31, in main wiring harness
- \* Only for countries with hot climate
- \*2 Only models with no Climatronic
- \*3 see applicable current flow diagram for automatic air conditioning system

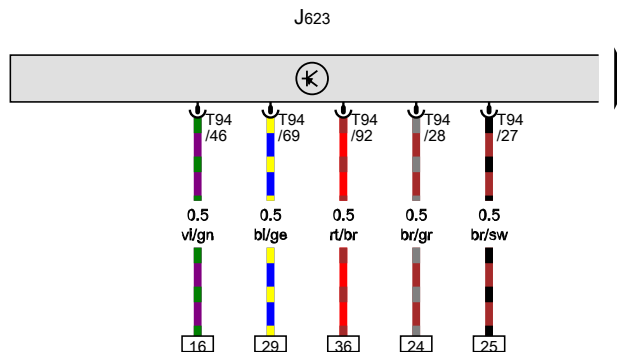
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 sw = black  
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 rs = pink

Main relay, Fuse 10 on fuse holder C, Fuse 15 on fuse holder C, Fuse 23 on fuse holder C

- J271 Main relay
- J329 Terminal 15 voltage supply relay
- SC10 Fuse 10 on fuse holder C
- SC15 Fuse 15 on fuse holder C
- SC23 Fuse 23 on fuse holder C
- SC42 Fuse 42 on fuse holder C

- A15 Positive connection (15), in instrument wiring harness
- B315 Positive connection 1 (30a) in main wiring harness
- B322 Positive connection 8 (30a) in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness
- \* see applicable current flow diagram for fuse assignment



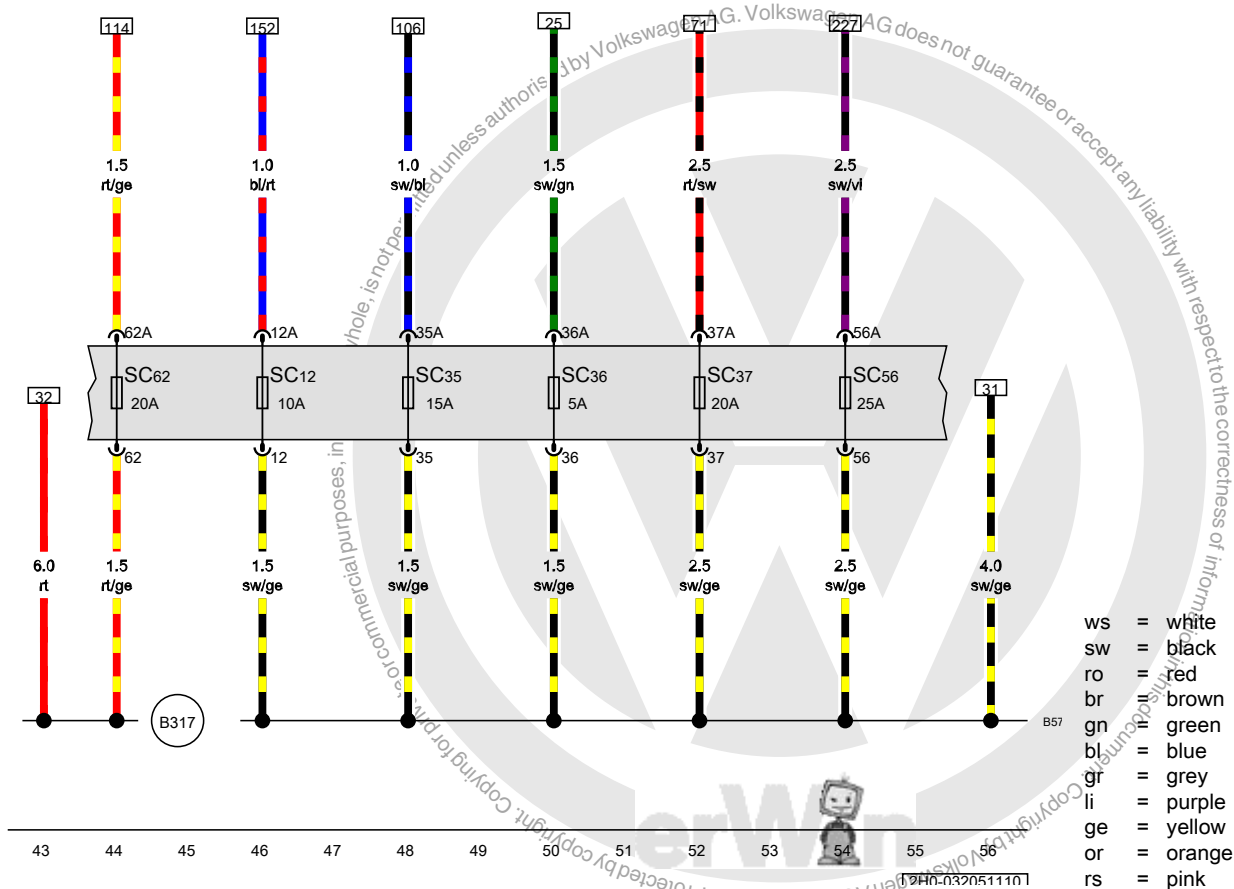


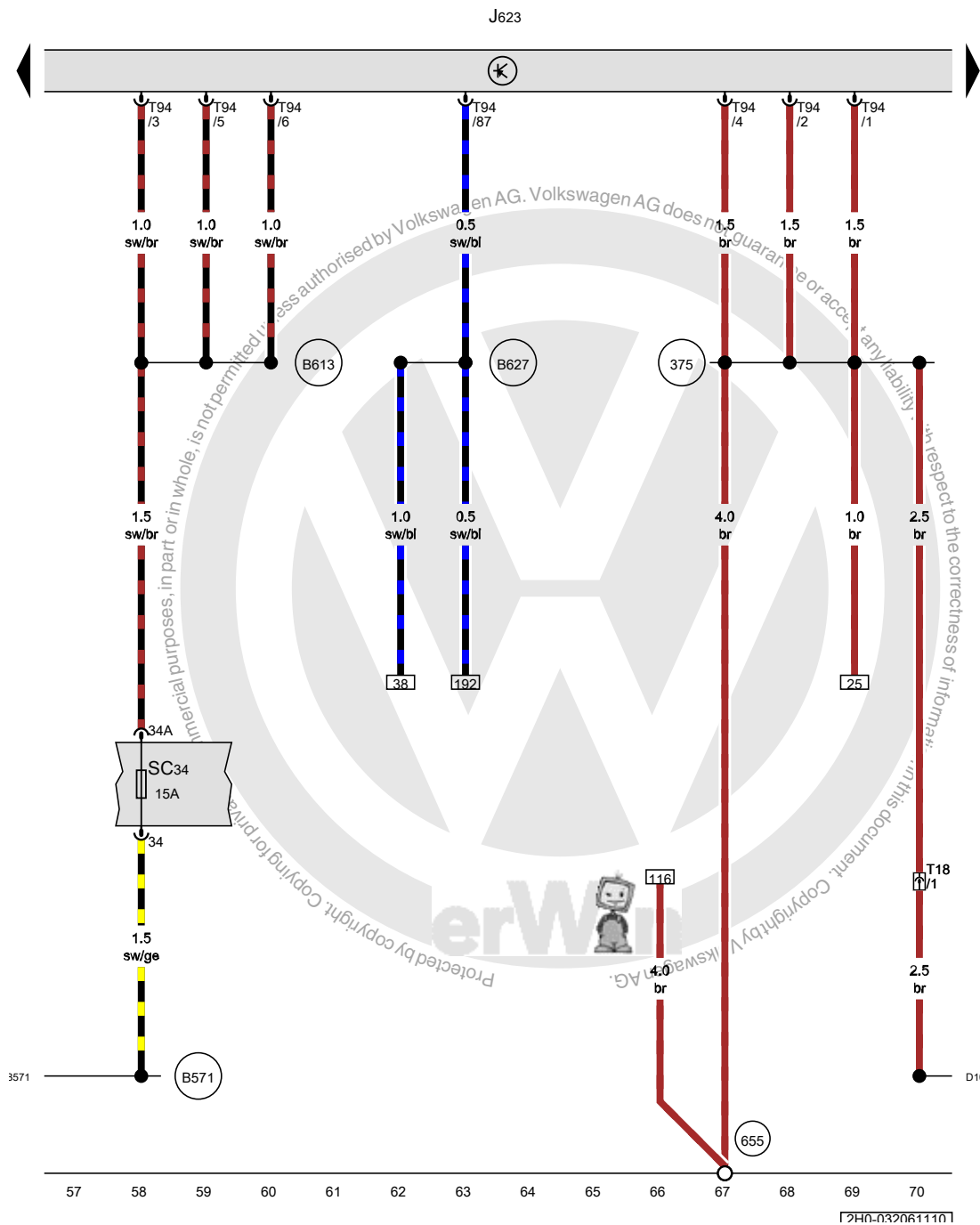
Engine control unit, Fuse 12 on fuse holder C, Fuse 35 on fuse holder C, Fuse 36 on fuse holder C

J623 Engine control unit  
SC12 Fuse 12 on fuse holder C  
SC35 Fuse 35 on fuse holder C  
SC36 Fuse 36 on fuse holder C  
SC37 Fuse 37 on fuse holder C  
SC56 Fuse 56 on fuse holder C  
SC62 Fuse 62 on fuse holder C  
T94 94-pin connector

B317 Positive connection 3 (30a) in main wiring harness

B571 Connection 38, in main wiring harness





### Engine control unit

J623 Engine control unit

SC34 Fuse 34 on fuse holder C

T18 18-pin connector, near engine control unit

T94 94-pin connector

375 Earth connection 10, in main wiring harness

655 Earth point, on left headlight

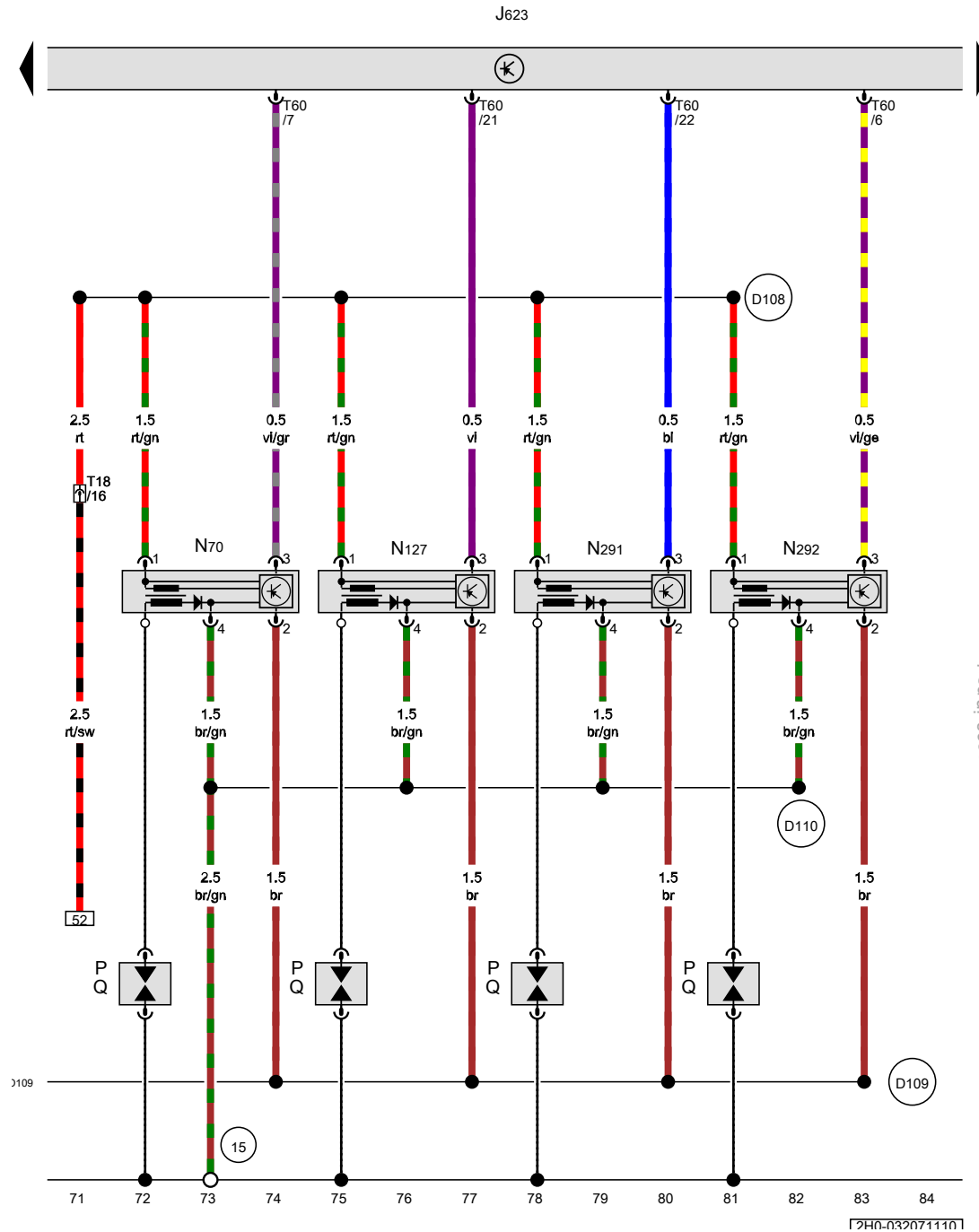
B571 Connection 38, in main wiring harness

B613 Connection 41, in main wiring harness

B627 Positive connection 3 (15), in main wiring harness

D109 Connection 7 in engine compartment wiring harness

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

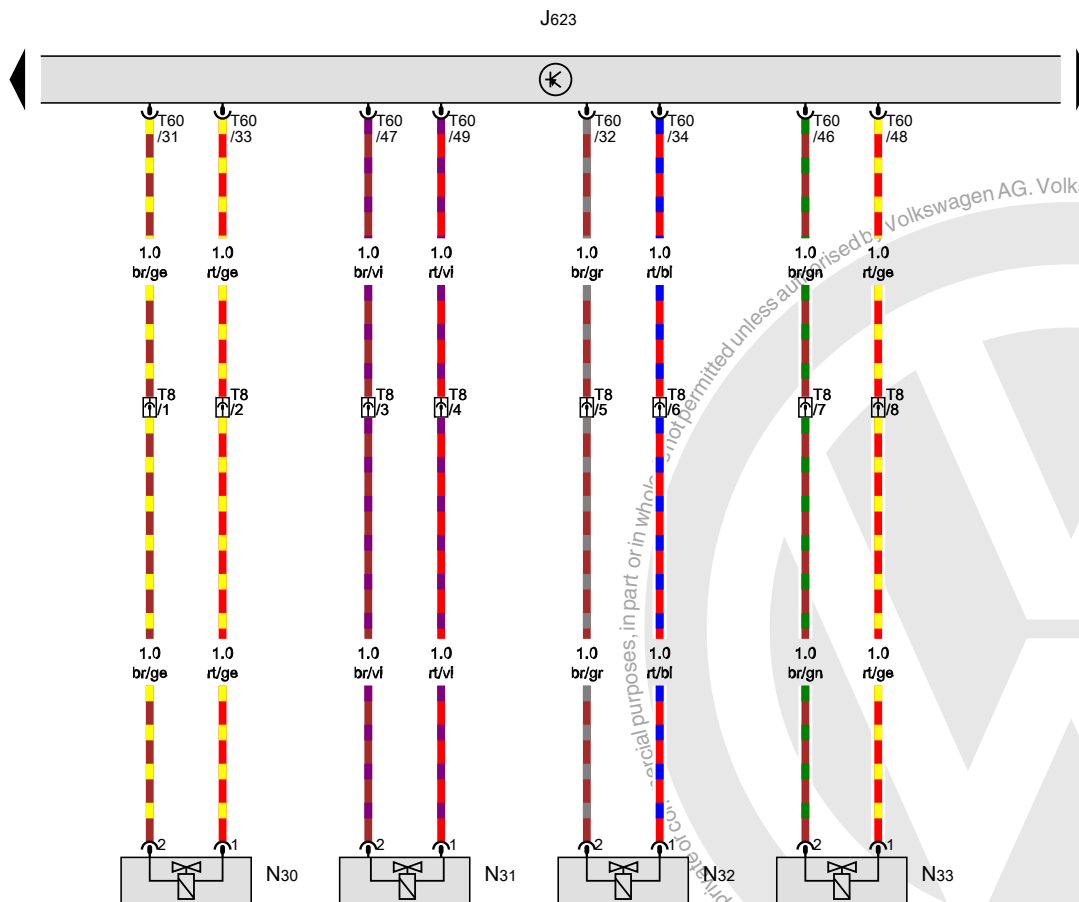


Engine control unit, Ignition coil 1 with output stage, Ignition coil 2 with output stage, Ignition coil 3 with output stage, Ignition coil 4 with output stage, Spark plug connector, Spark plugs

- J623 Engine control unit
- N70 Ignition coil 1 with output stage
- N127 Ignition coil 2 with output stage
- N291 Ignition coil 3 with output stage
- N292 Ignition coil 4 with output stage
- P Spark plug connector
- Q Spark plugs
- T18 18-pin connector, near engine control unit
- T60 60-pin connector

- 15 Earth point, on cylinder head
- D108 Connection 6 in engine compartment wiring harness
- D109 Connection 7 in engine compartment wiring harness
- D110 Connection 8 in engine compartment wiring harness

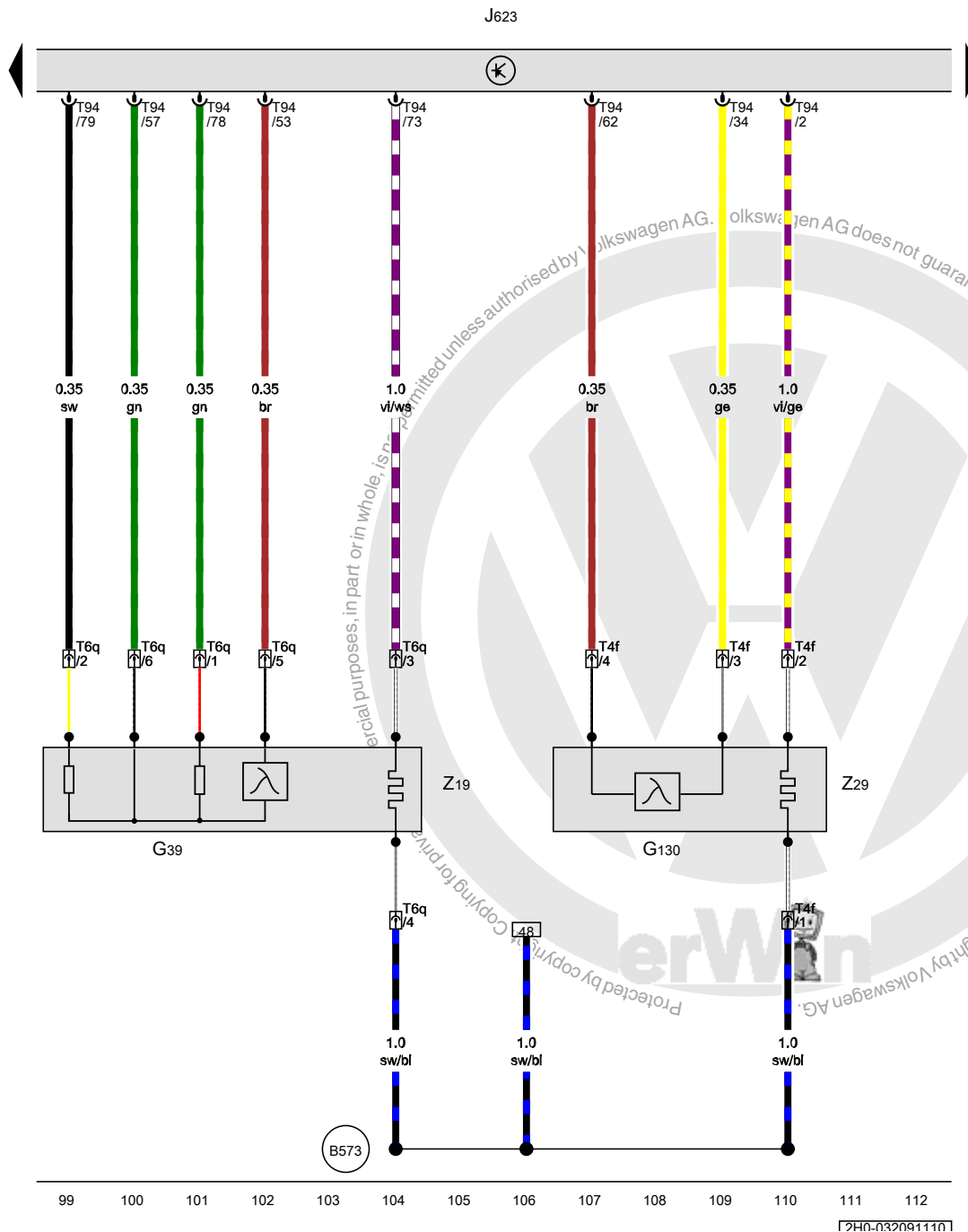
- ws = white
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- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink



Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4

J623 Engine control unit  
 N30 Injector, cylinder 1  
 N31 Injector, cylinder 2  
 N32 Injector, cylinder 3  
 N33 Injector, cylinder 4  
 T8 8-pin connector  
 T60 60-pin connector

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

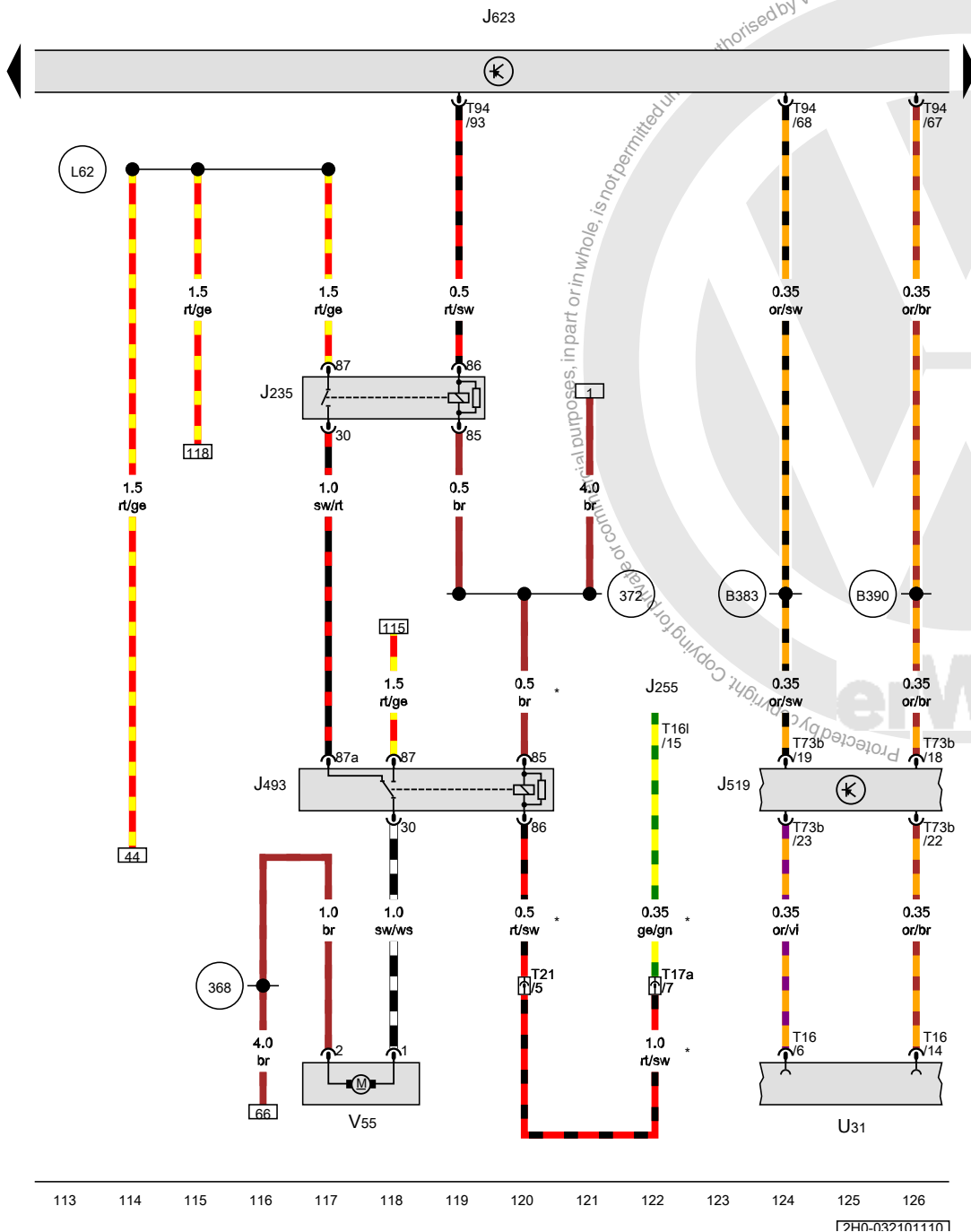


**Lambda probe, Lambda probe after catalytic converter, Engine control unit**

- G39 Lambda probe
- G130 Lambda probe after catalytic converter
- J623 Engine control unit
- T4f 4-pin connector, in rear right of engine compartment
- T6q 6-pin connector, front right in engine compartment
- T94 94-pin connector
- Z19 Lambda probe heater
- Z29 Lambda probe 1 heater after catalytic converter
- B573 Connection 40, in main wiring harness

ws = white  
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 br = brown  
 gn = green  
 bl = blue  
 gr = grey  
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 ge = yellow  
 or = orange  
 rs = pink

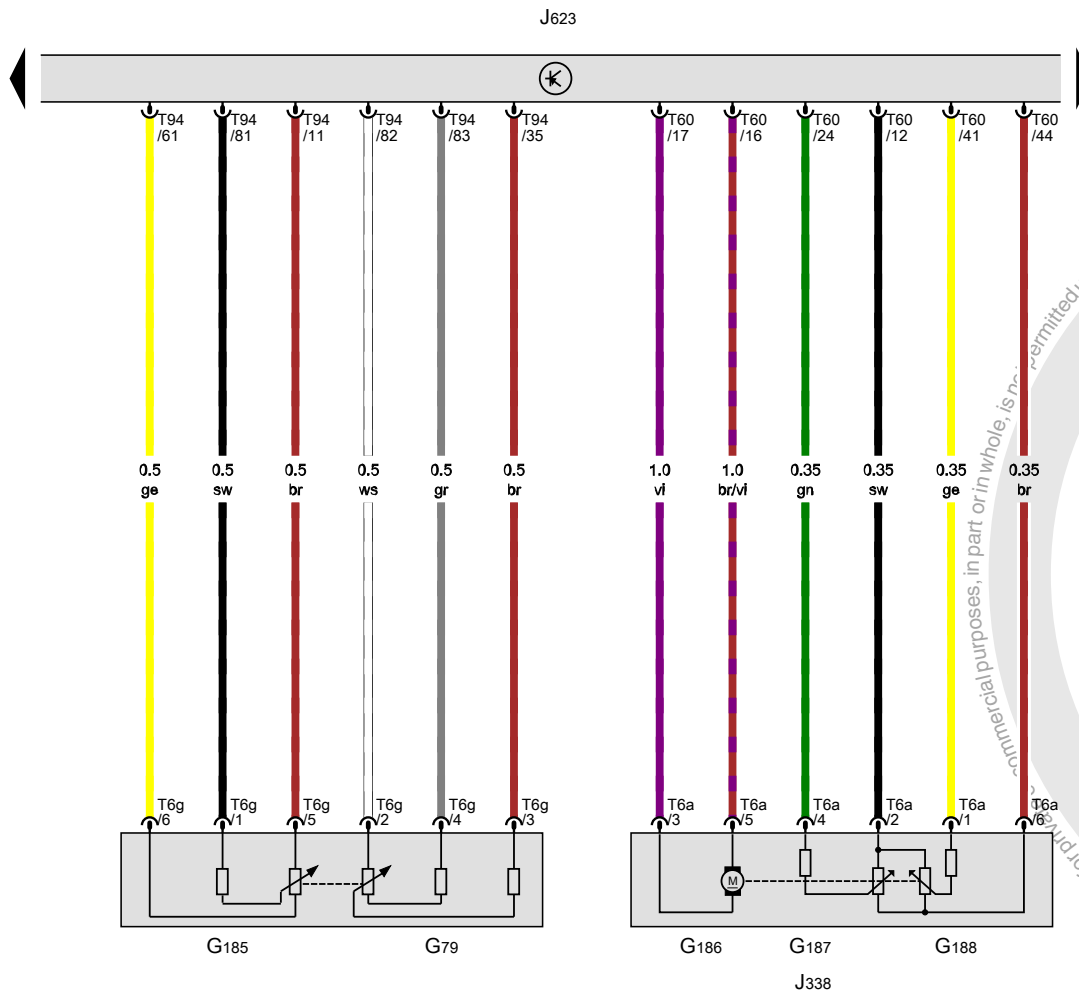




# Engine control unit, Circulation pump

- J235 Coolant pump relay
- J255 Climatronic control unit
- J493 Auxiliary coolant heater relay
- J519 Onboard supply control unit
- J623 Engine control unit
- T16 16-pin connector
- T16l 16-pin connector
- T17a 17-pin connector
- T21 21-pin connector
- T73b 73-pin connector
- T94 94-pin connector
- U31 Diagnostic connection
- V55 Circulation pump

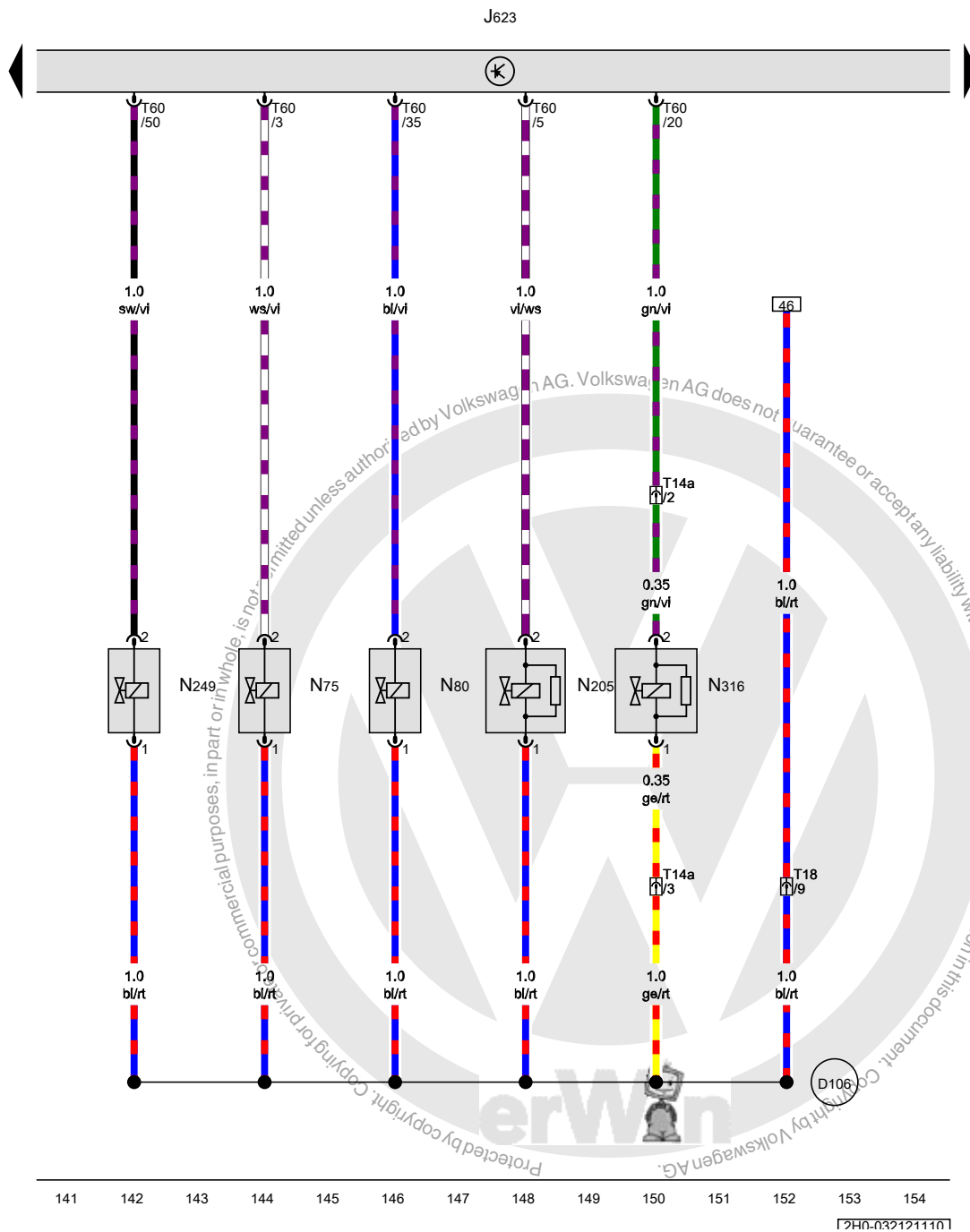
- 368 Earth connection 3, in main wiring harness
- 372 Earth connection 7, in main wiring harness
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- L62 Positive connection (30a), in auxiliary heater wiring harness
- \* Only models with Climatronic



Accelerator position sender, Throttle valve drive for electric throttle, Throttle valve module, Engine control unit

- G79 Accelerator position sender
- G185 Accelerator position sender 2
- G186 Throttle valve drive for electric throttle
- G187 Throttle valve drive angle sender 1 for electric throttle
- G188 Throttle valve drive angle sender 2 for electric throttle
- J338 Throttle valve module
- J623 Engine control unit
- T6a 6-pin connector
- T6g 6-pin connector
- T60 60-pin connector
- T94 94-pin connector

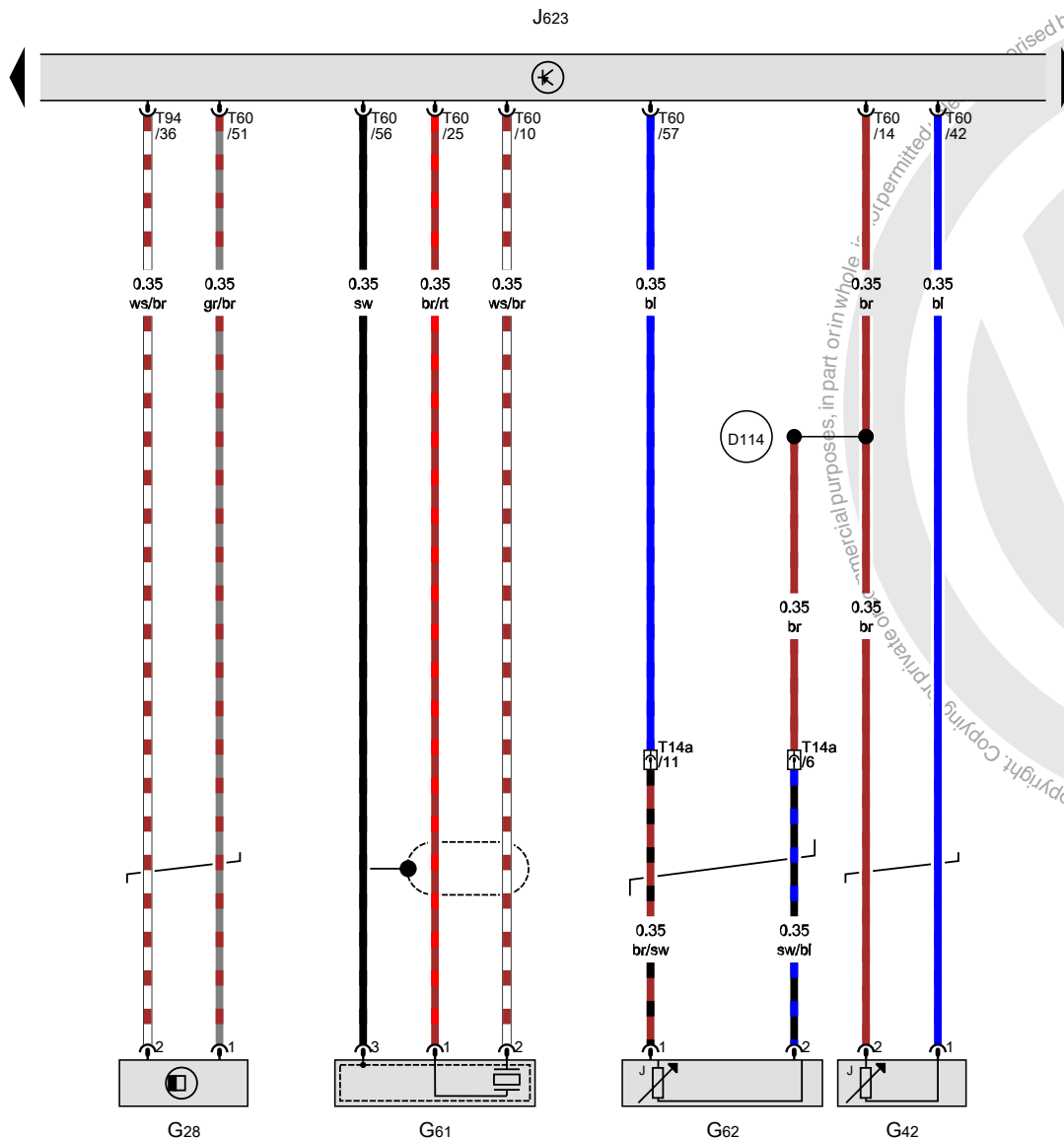
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- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink



Engine control unit, Charge pressure control solenoid valve, Activated charcoal filter solenoid valve 1, Camshaft control valve 1, Turbocharger air recirculation valve, Intake manifold flap valve

- J623 Engine control unit
- N75 Charge pressure control solenoid valve
- N80 Activated charcoal filter solenoid valve 1
- N205 Camshaft control valve 1
- N249 Turbocharger air recirculation valve
- N316 Intake manifold flap valve
- T14a 14-pin connector, front left in engine compartment
- T18 18-pin connector, near engine control unit
- T60 60-pin connector
- D106 Connection 4 in engine compartment wiring harness

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



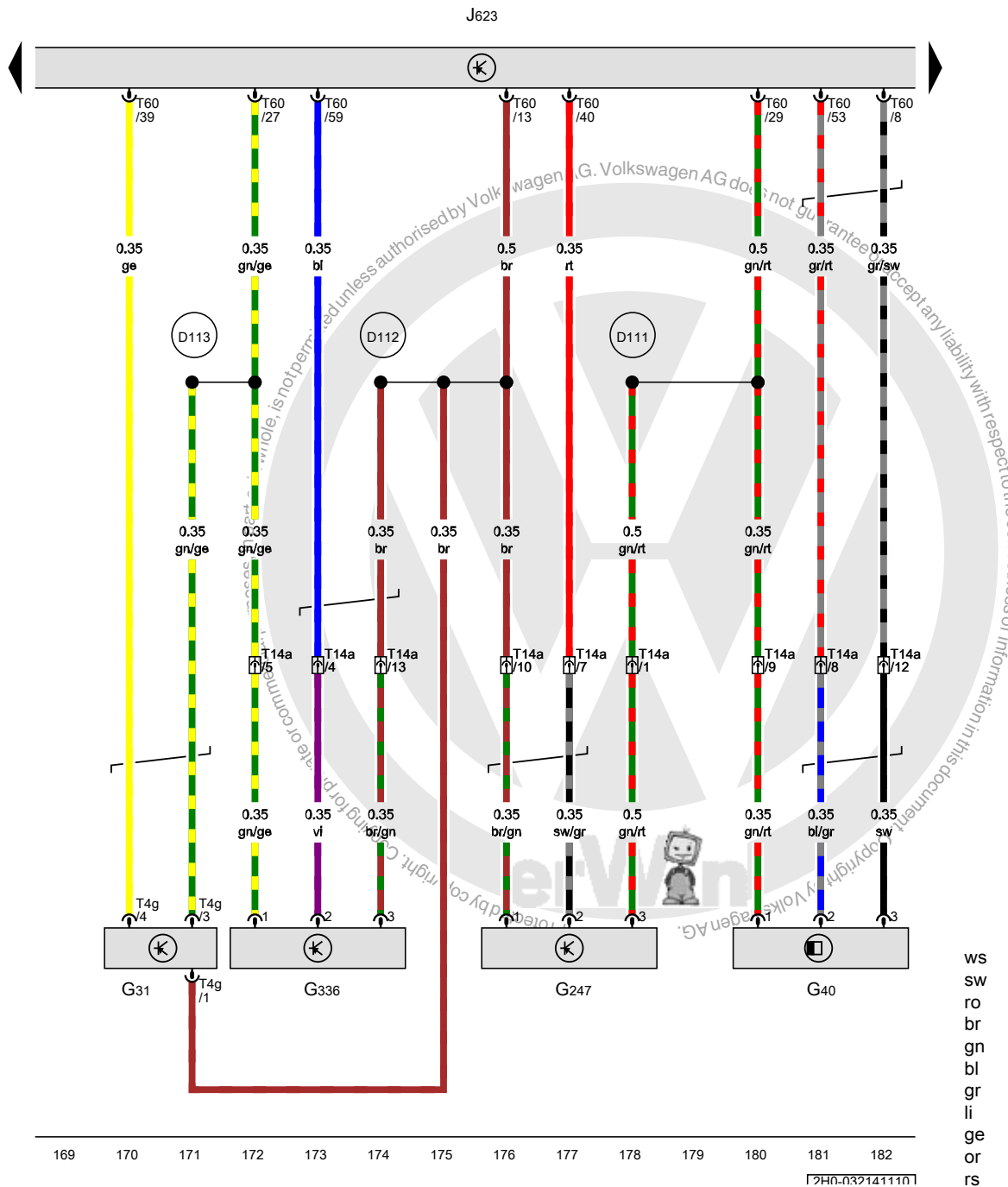
Engine speed sender, Intake air temperature sender, Knock sensor 1, Coolant temperature sender, Engine control unit

- G28 Engine speed sender
- G42 Intake air temperature sender
- G61 Knock sensor 1
- G62 Coolant temperature sender
- J623 Engine control unit
- T14a 14-pin connector, front left in engine compartment
- T60 60-pin connector
- T94 94-pin connector
- D114 Connection 12 in engine compartment wiring harness

ws = white  
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 ge = yellow  
 or = orange  
 rs = pink

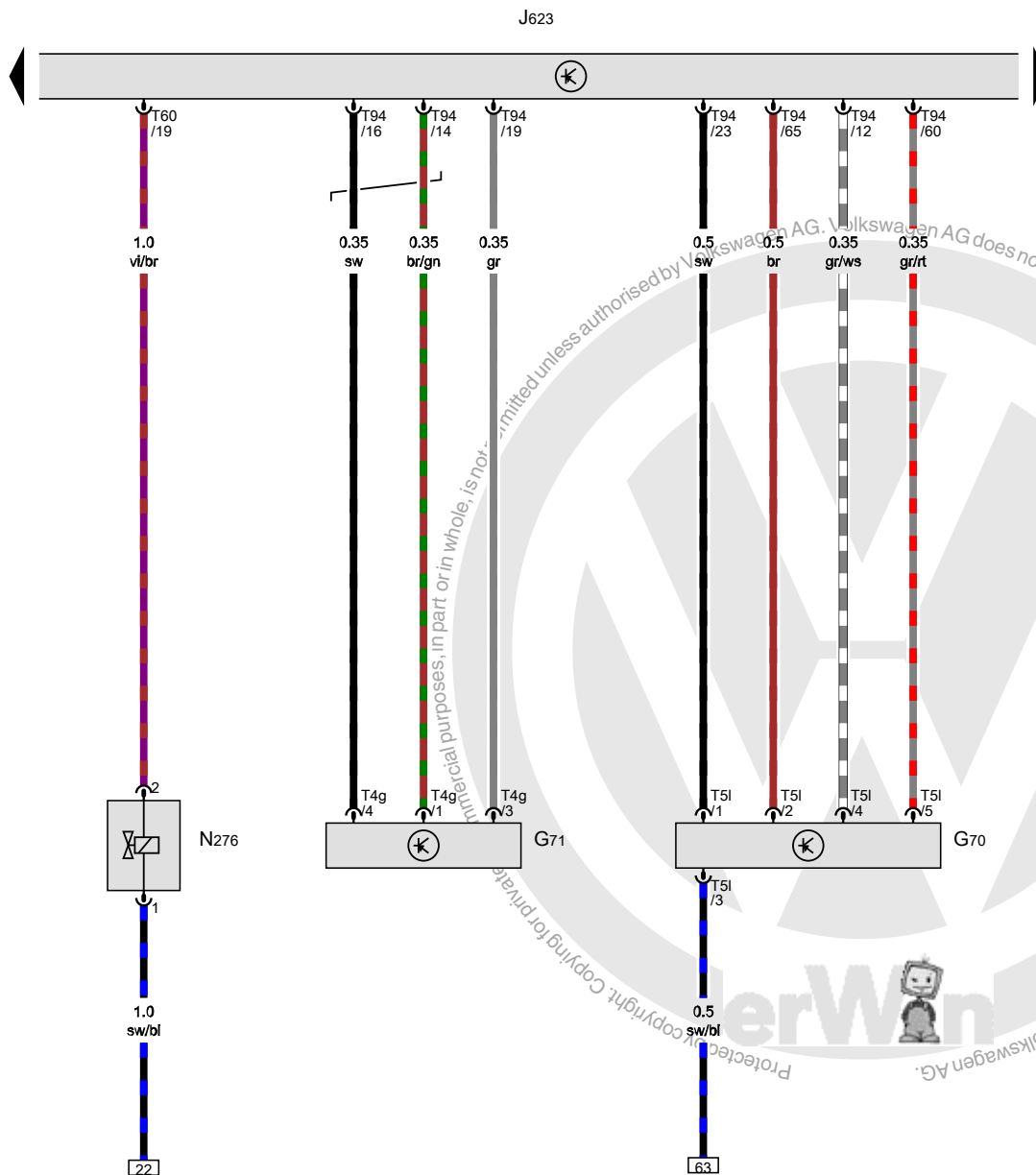
155 156 157 158 159 160 161 162 163 164 165 166 167 168

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Charge pressure sender, Hall sender, Fuel pressure sender, Intake manifold flap potentiometer, Engine control unit

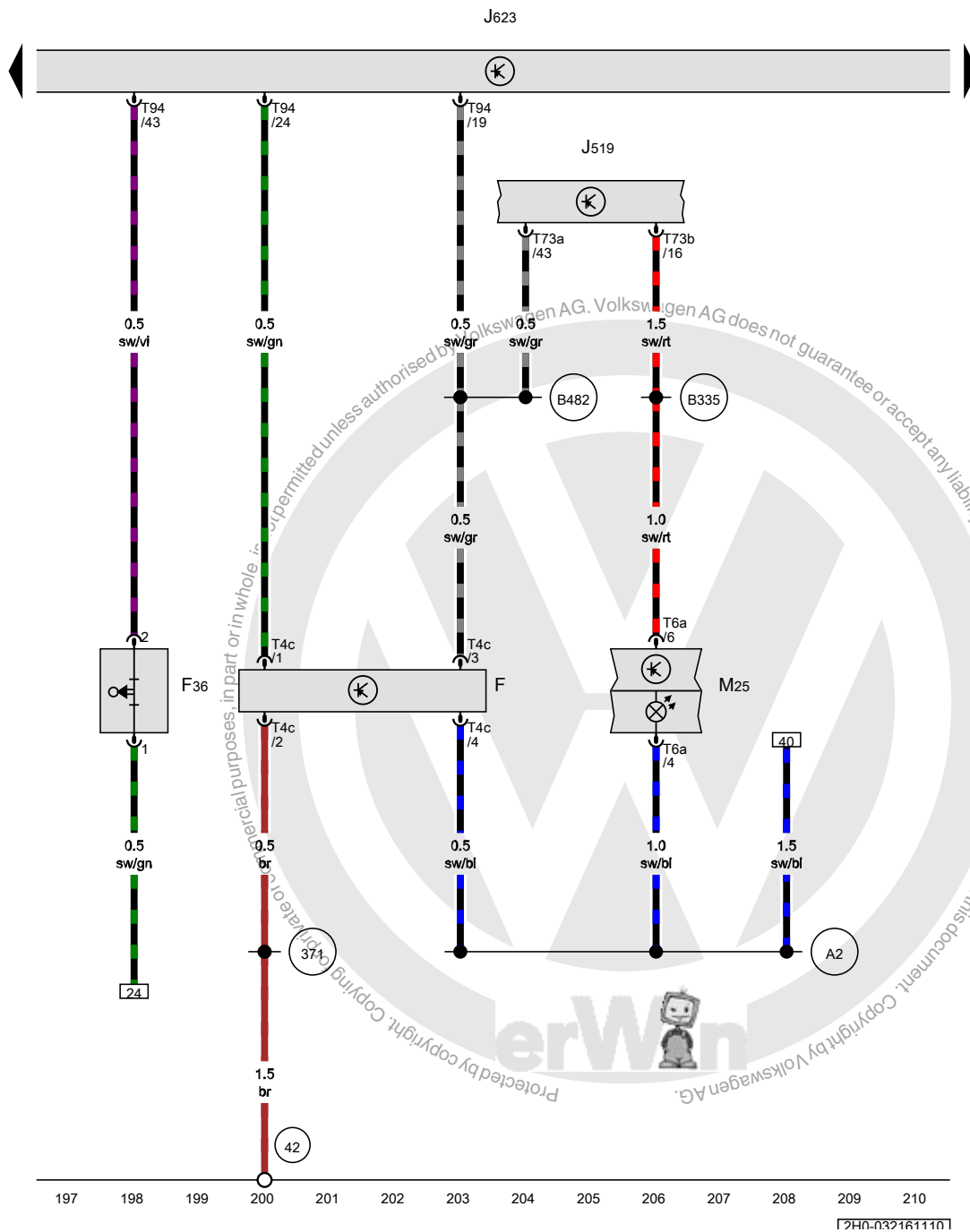
- G31 Charge pressure sender
- G40 Hall sender
- G247 Fuel pressure sender
- G336 Intake manifold flap potentiometer
- J623 Engine control unit
- T4g 4-pin connector
- T14a 14-pin connector, front left in engine compartment
- T60 60-pin connector
- D111 Connection 9 in engine compartment wiring harness
- D112 Connection 10 in engine compartment wiring harness
- D113 Connection 11 in engine compartment wiring harness



Air mass meter, Intake manifold pressure sender, Engine control unit, Fuel pressure regulating valve

- G70 Air mass meter
- G71 Intake manifold pressure sender
- J623 Engine control unit
- N276 Fuel pressure regulating valve
- T4g 4-pin connector
- T5l 5-pin connector
- T60 60-pin connector
- T94 94-pin connector

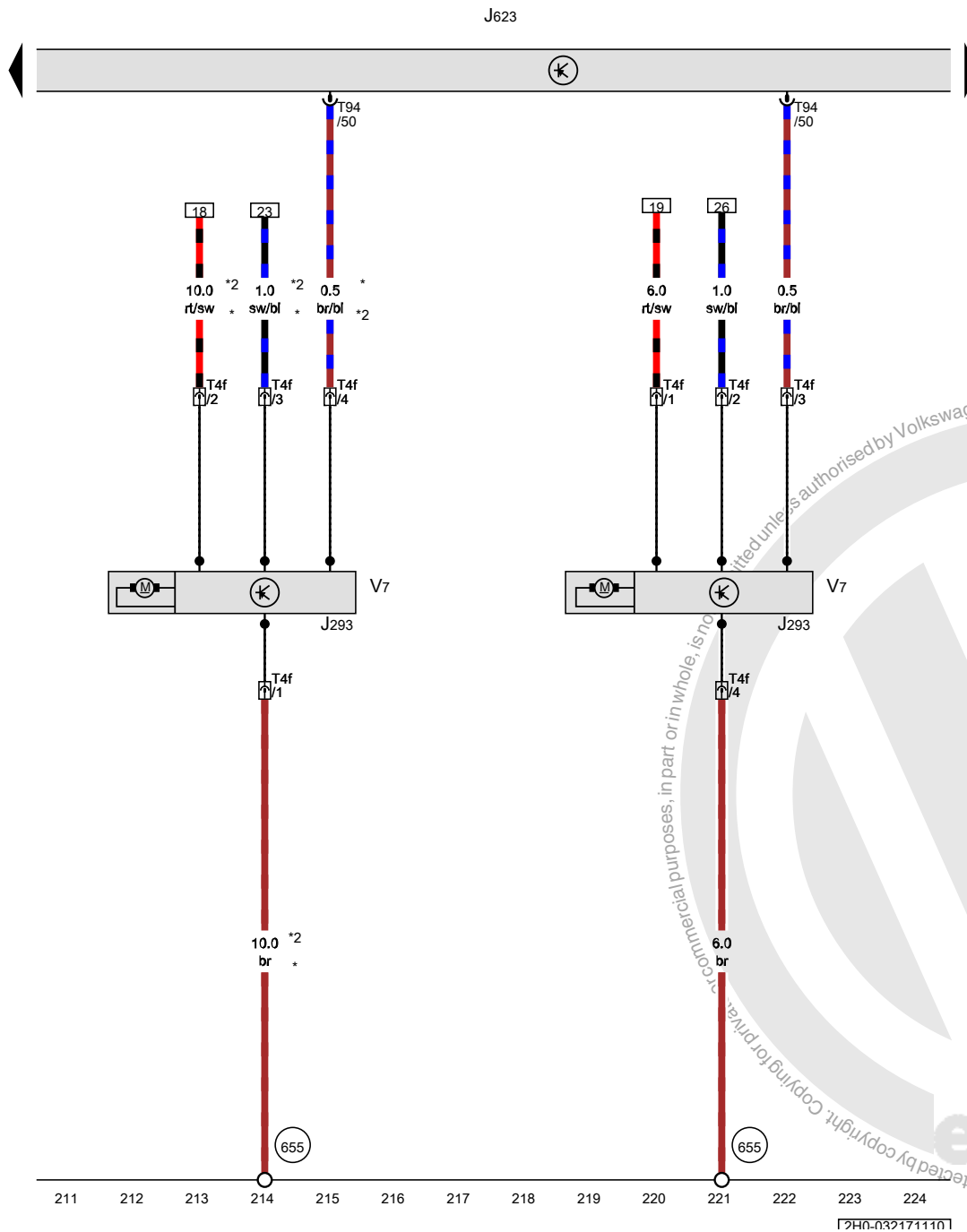
- ws = white
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Brake light switch, Clutch pedal switch, Engine control unit

- F Brake light switch
- F36 Clutch pedal switch
- J519 Onboard supply control unit
- J623 Engine control unit
- M25 Additional brake light bulb
- T4c 4-pin connector
- T6a 6-pin connector
- T73a 73-pin connector
- T73b 73-pin connector
- T94 94-pin connector

- (42) Earth point, next to steering column
- (371) Earth connection 6, in main wiring harness
- (A2) Positive connection (15), in dash panel wiring harness
- (B335) Connection 1 (54), in main wiring harness
- (B482) Connection 18, in main wiring harness



Radiator fan control unit, Engine control unit, Radiator fan

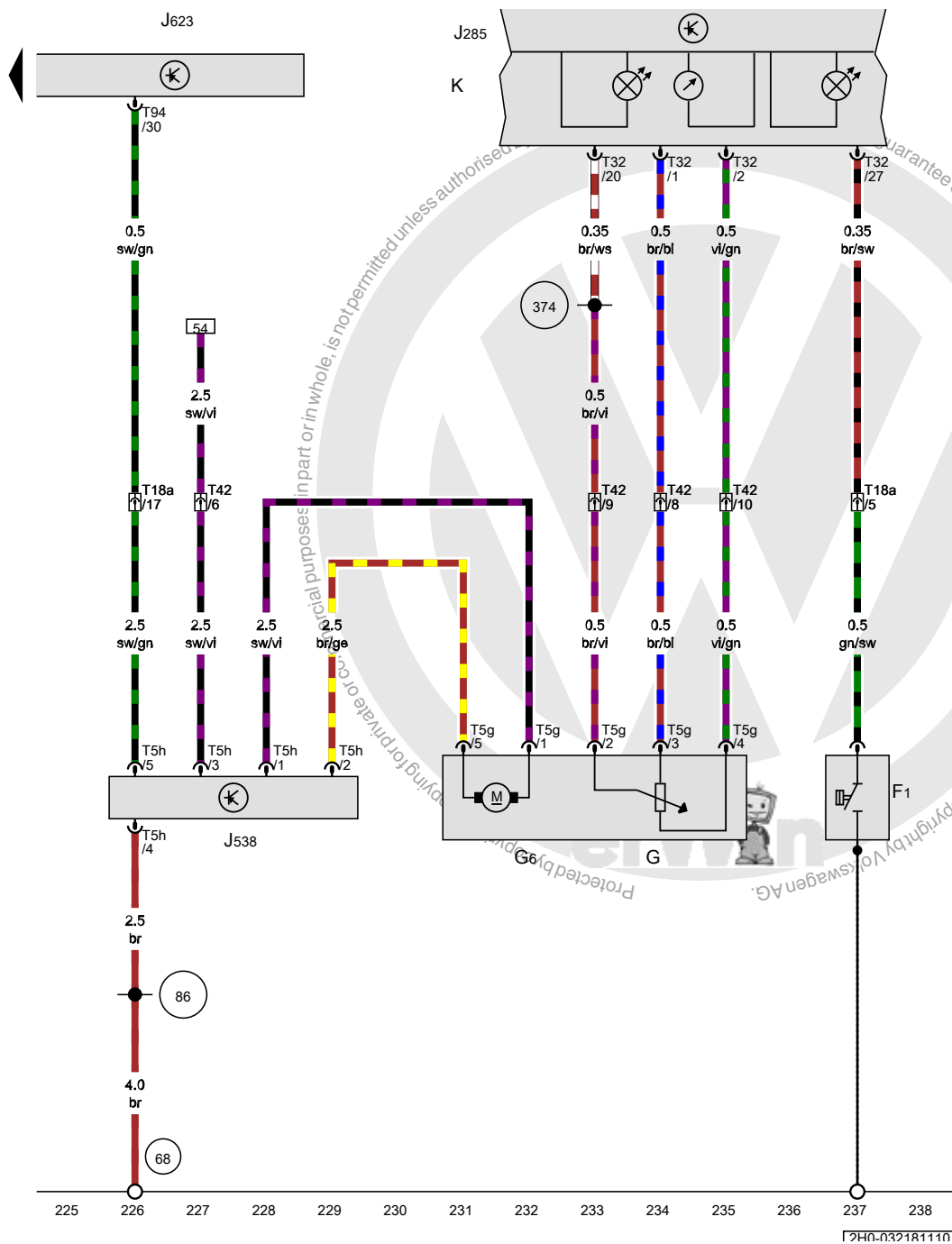
- J293 Radiator fan control unit
- J623 Engine control unit
- T4f 4-pin connector, on radiator cowling
- T94 94-pin connector
- V7 Radiator fan

655 Earth point, on left headlight

- \* Only for countries with hot climate
- \*2 Only models with air conditioning system/ Climatronic

ws = white  
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Oil pressure switch, Fuel gauge sender, Fuel system pressurisation pump, Fuel pump control unit, Engine control unit, Dash panel insert

- F1 Oil pressure switch
- G Fuel gauge sender
- G6 Fuel system pressurisation pump
- J285 Control unit in dash panel insert
- J538 Fuel pump control unit
- J623 Engine control unit
- K Dash panel insert
- T5g 5-pin connector
- T5h 5-pin connector
- T18a 18-pin connector, near engine control unit
- T32 32-pin connector
- T42 42-pin connector, near handbrake lever
- T94 94-pin connector

- 68 Earth point, on left of rear cross member
- 86 Earth connection 1, in rear wiring harness
- 374 Earth connection 9, in main wiring harness

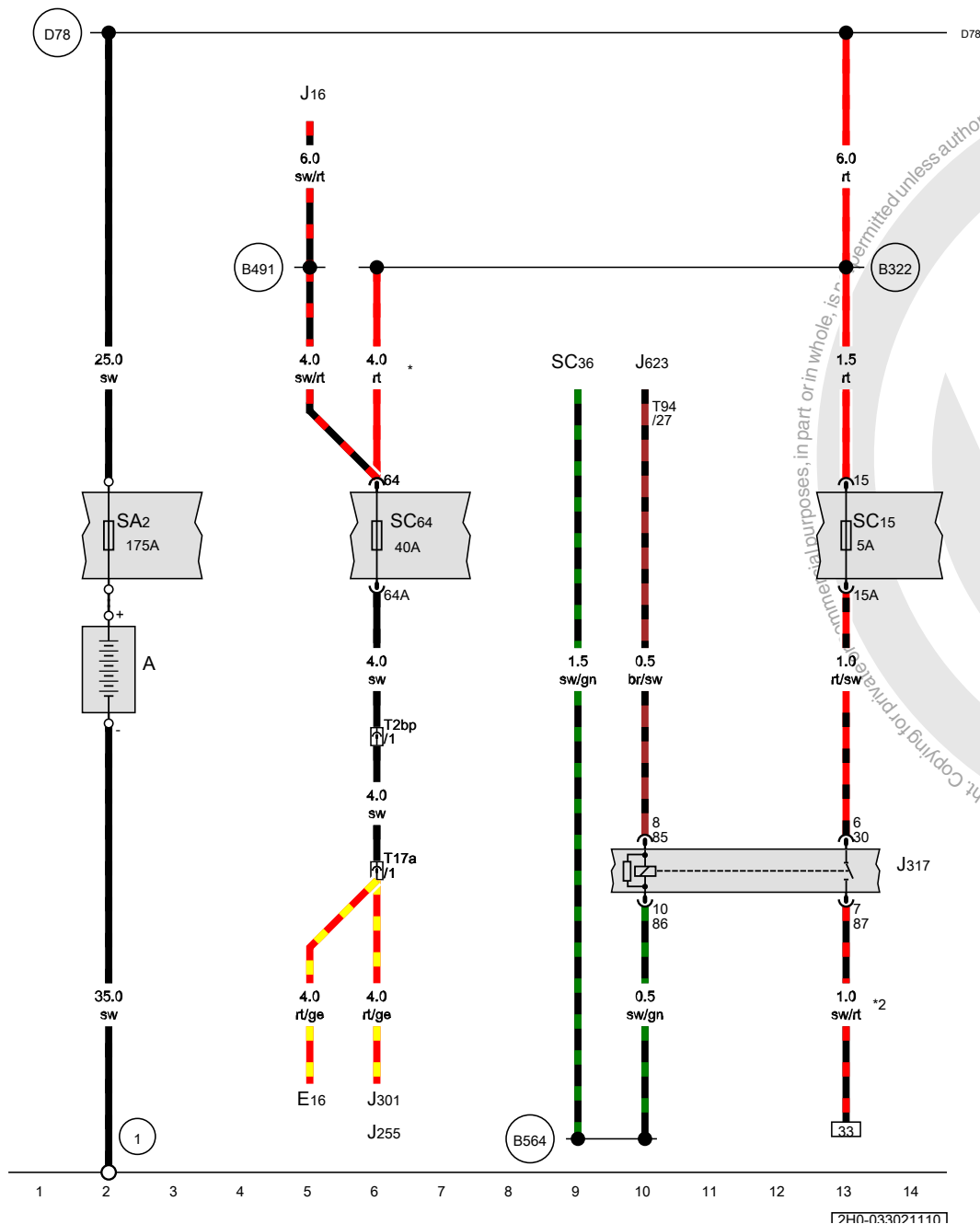
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## Auxiliary coolant heater , CFPA

From December 2010



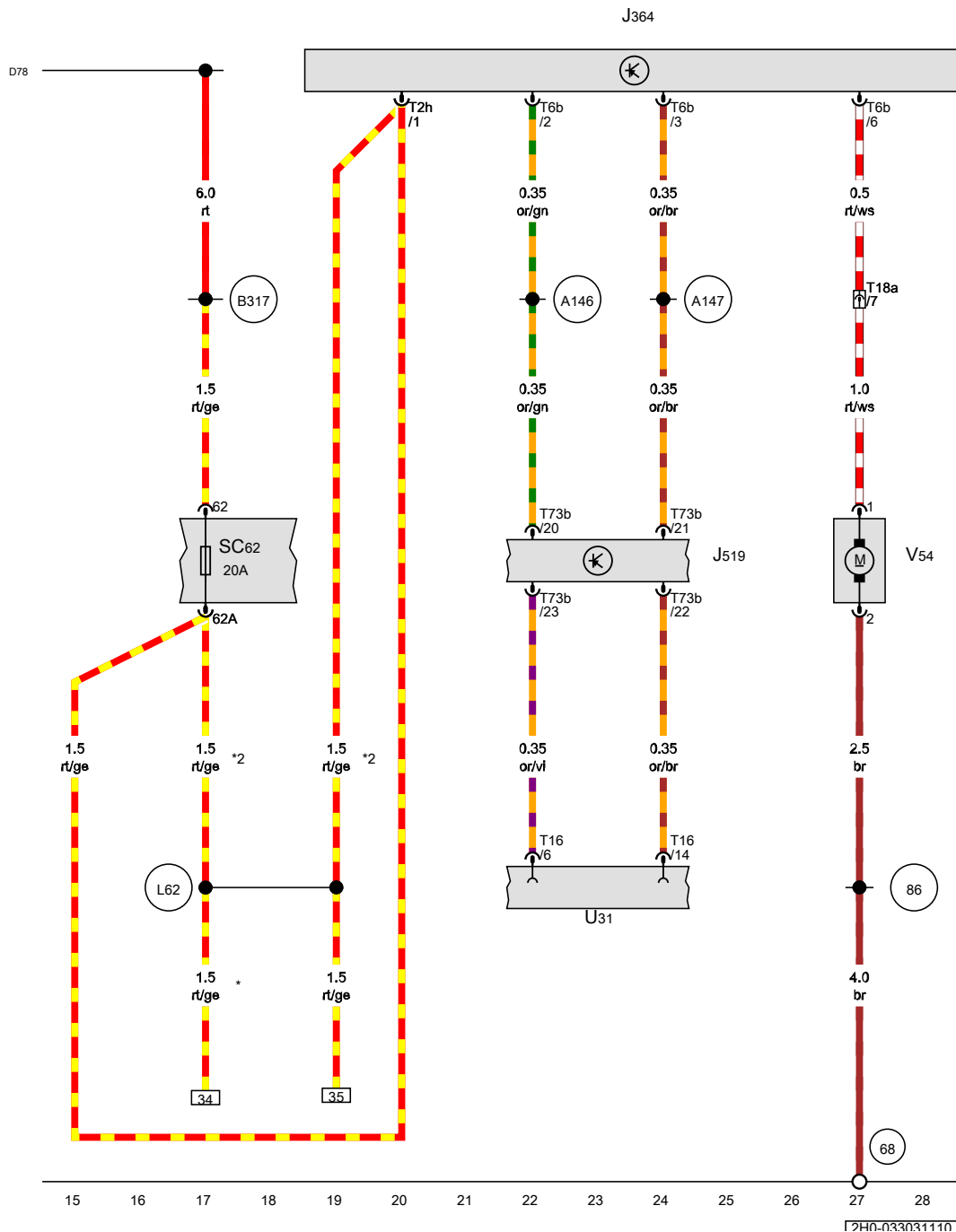
Battery, Engine control unit, Fuse 2 in fuse holder A, Fuse 15 on fuse holder C, Fuse 36 on fuse holder C



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

Battery  
E16 Heater/heat output switch  
J16 Current supply relay  
J255 Climatronic control unit  
J301 Air conditioning system control unit  
J317 Terminal 30 voltage supply relay  
J623 Engine control unit  
SA2 Fuse 2 in fuse holder A  
SC15 Fuse 15 on fuse holder C  
SC36 Fuse 36 on fuse holder C  
SC64 Fuse 64 on fuse holder C  
T2bp 2-pin connector  
T17a 17-pin connector, behind glove compartment  
T94 94-pin connector

1 Earth strap, battery - body  
B322 Positive connection 8 (30a) in main wiring harness  
B491 Positive connection (75), in interior wiring harness  
B564 Connection 31, in main wiring harness  
D78 Positive connection 1 (30a), in engine compartment wiring harness  
\* Only models with Climatronic  
\*2 Only models with no Climatronic

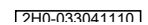


**Auxiliary heater control unit, Onboard supply control unit,  
Fuse 62 on fuse holder C, Metering pump**

- J364 Auxiliary heater control unit
- J519 Onboard supply control unit
- SC62 Fuse 62 on fuse holder C
- T2h 2-pin connector
- T6b 6-pin connector
- T16 16-pin connector
- T18a 18-pin connector, near engine control unit
- T73b 73-pin connector
- U31 Diagnostic connection, near driver side A-pillar
- V54 Metering pump

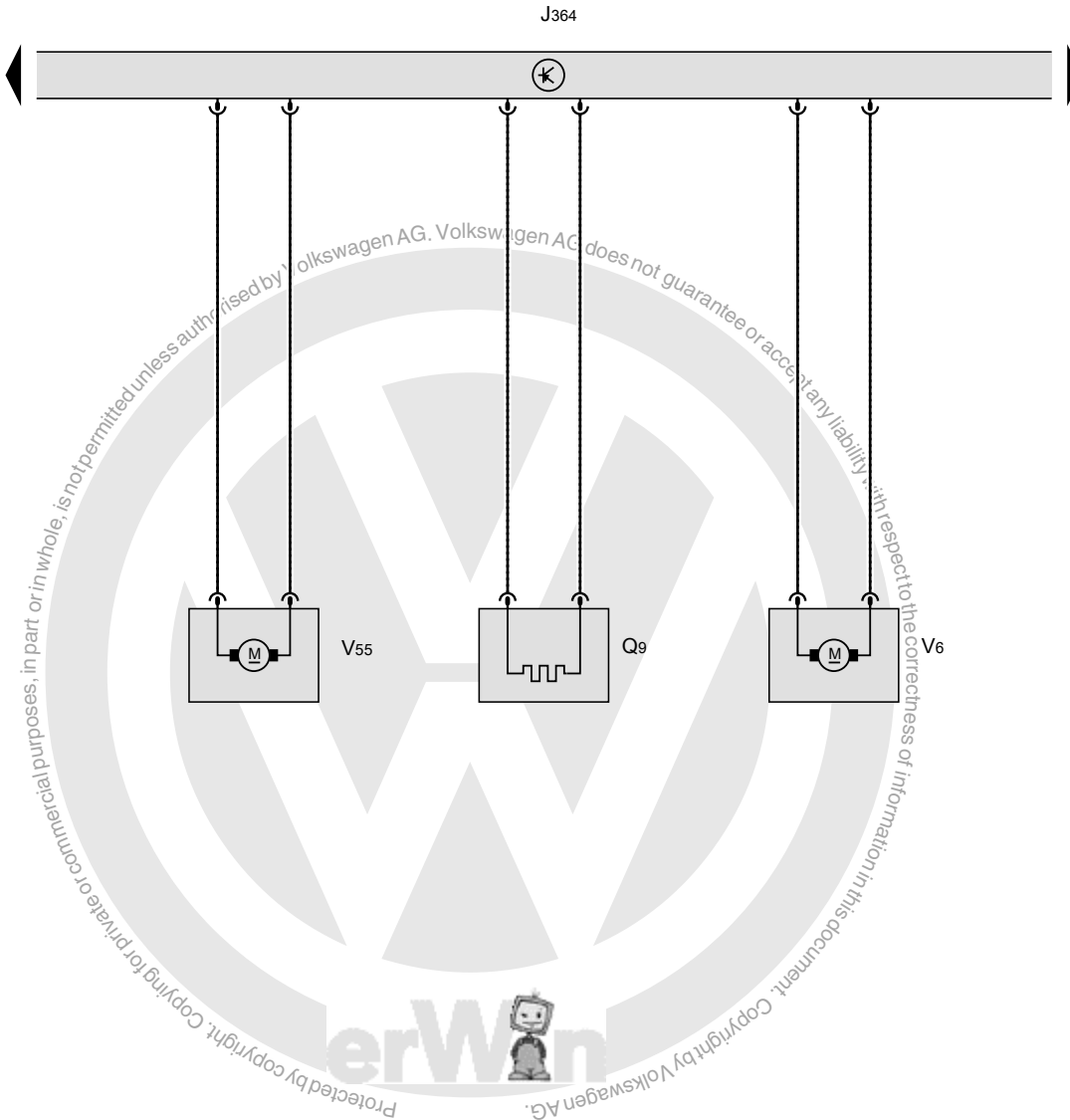
- 68 Earth point, on left of rear cross member
- 86 Earth connection 1, in rear wiring harness
- A146 Connection (convenience CAN bus, high), in dash panel wiring harness
- A147 Connection (convenience CAN bus, low), in dash panel wiring harness
- B317 Positive connection 3 (30a) in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness
- L62 Positive connection (30a), in auxiliary heater wiring harness
- \* Only models with Climatronic
- \*2 Only models with air conditioning system/ Climatronic

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- rs = pink



\* Only models with Climatronic  
\*2 Only models with no Climatronic

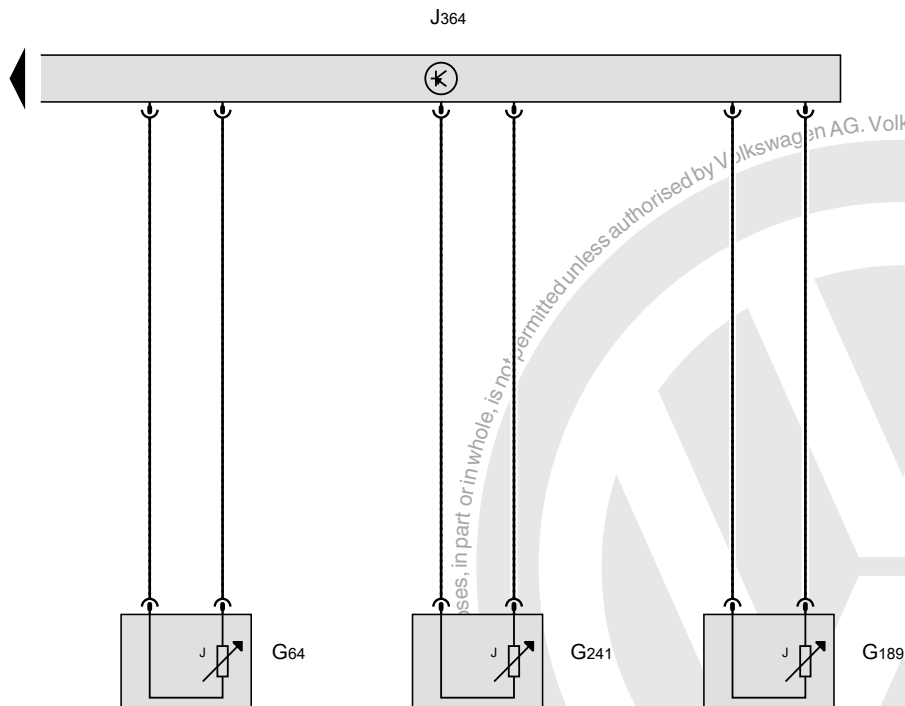
11.2010



**Auxiliary heater control unit, Glow plug for heater,  
Combustion air blower**

- J364 Auxiliary heater control unit
- Q9 Glow plug for heater
- V6 Combustion air blower
- V55 Circulation pump

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



Flame monitor, Overheating sensor, Coolant temperature sender for heater, Auxiliary heater control unit

- G64 Flame monitor
- G189 Overheating sensor
- G241 Coolant temperature sender for heater
- J364 Auxiliary heater control unit

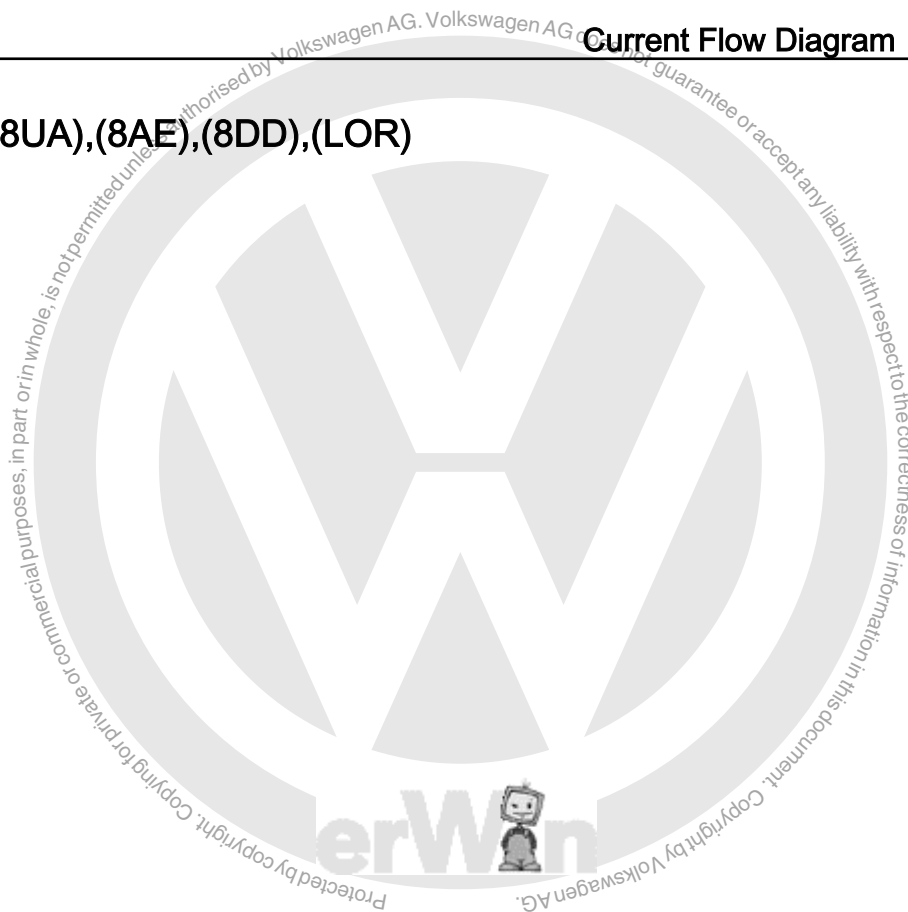
ws = white  
 sw = black  
 ro = red  
 br = brown  
 gn = green  
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 gr = grey  
 li = purple  
 ge = yellow  
 or = orange  
 rs = pink

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

1740-0330611101

**Radio system , (8UA),(8AE),(8DD),(LOR)**

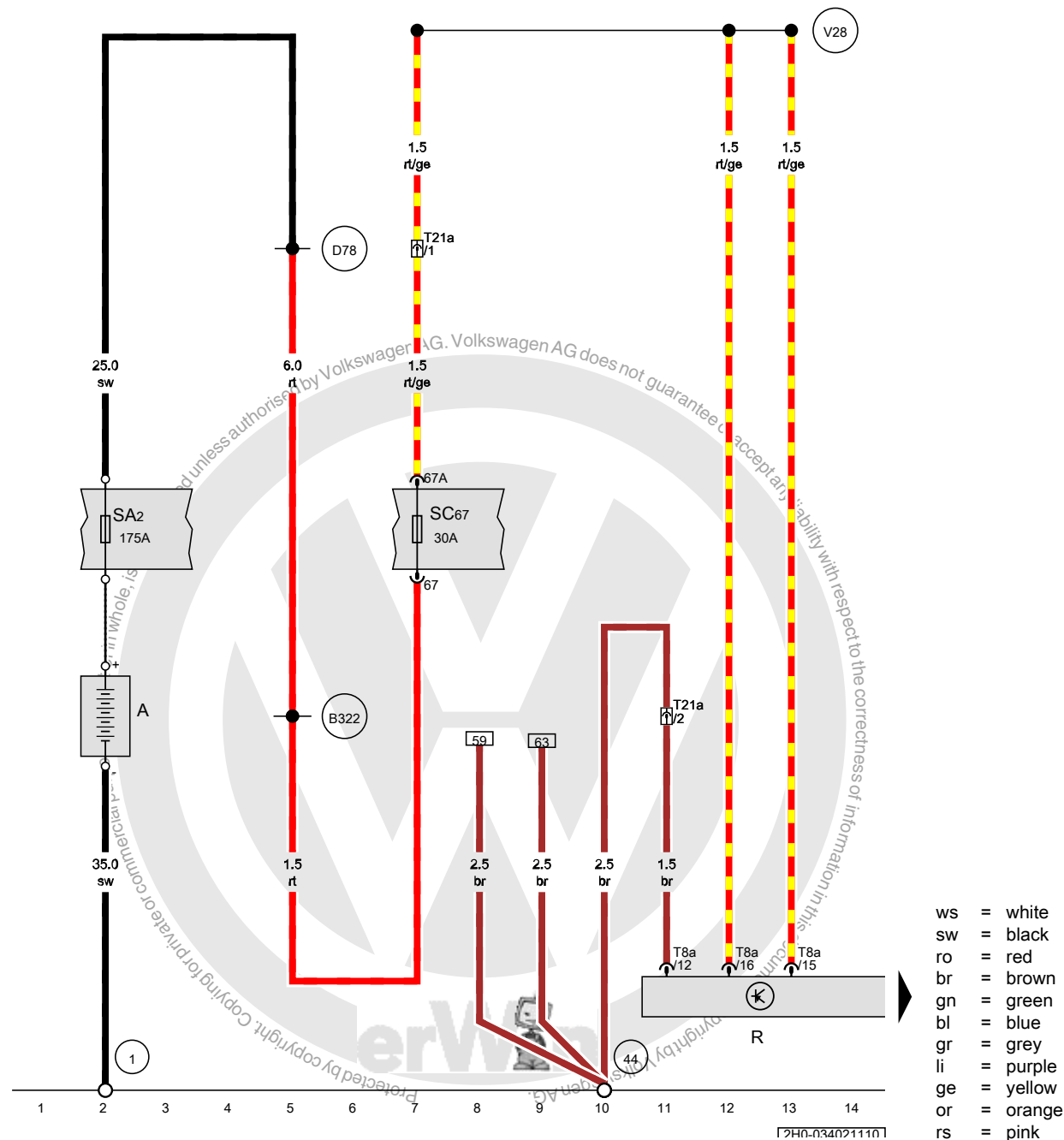
From December 2009

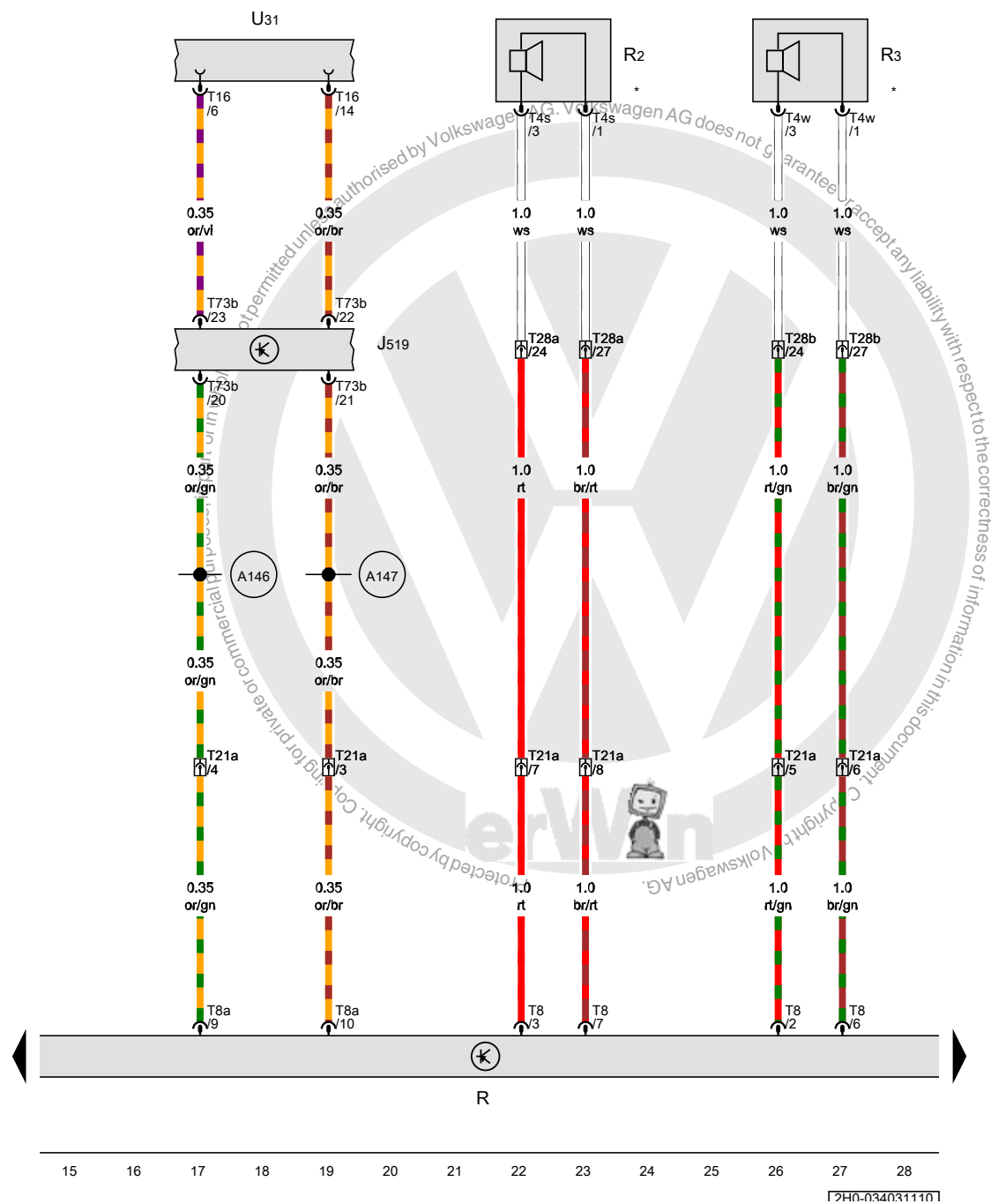




Radio, Fuse 67 on fuse holder C

- A Battery
- R Radio
- SA2 Fuse 2 in fuse holder A
- SC67 Fuse 67 on fuse holder C
- T8a 8-pin connector
- T21a 21-pin connector
- 1 Earth strap, battery - body
- 44 Earth point, lower part of left A-pillar
- B322 Positive connection 8 (30a) in main wiring harness
- D78 Positive connection 1 (30a), in engine compartment wiring harness
- V28 Connection 1, in radio wiring harness



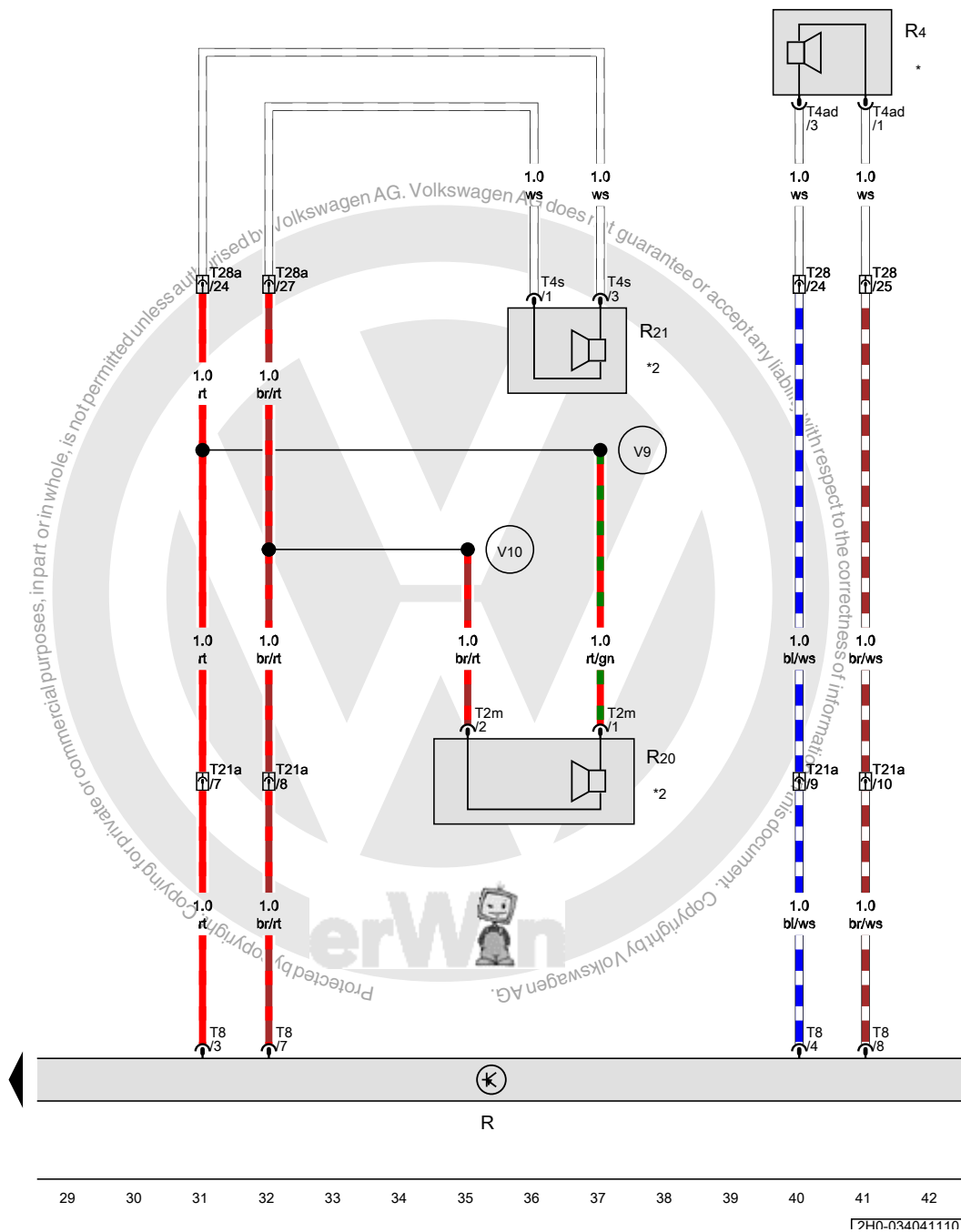


### Radio, Front left loudspeaker, Front right loudspeaker, Diagnostic connection

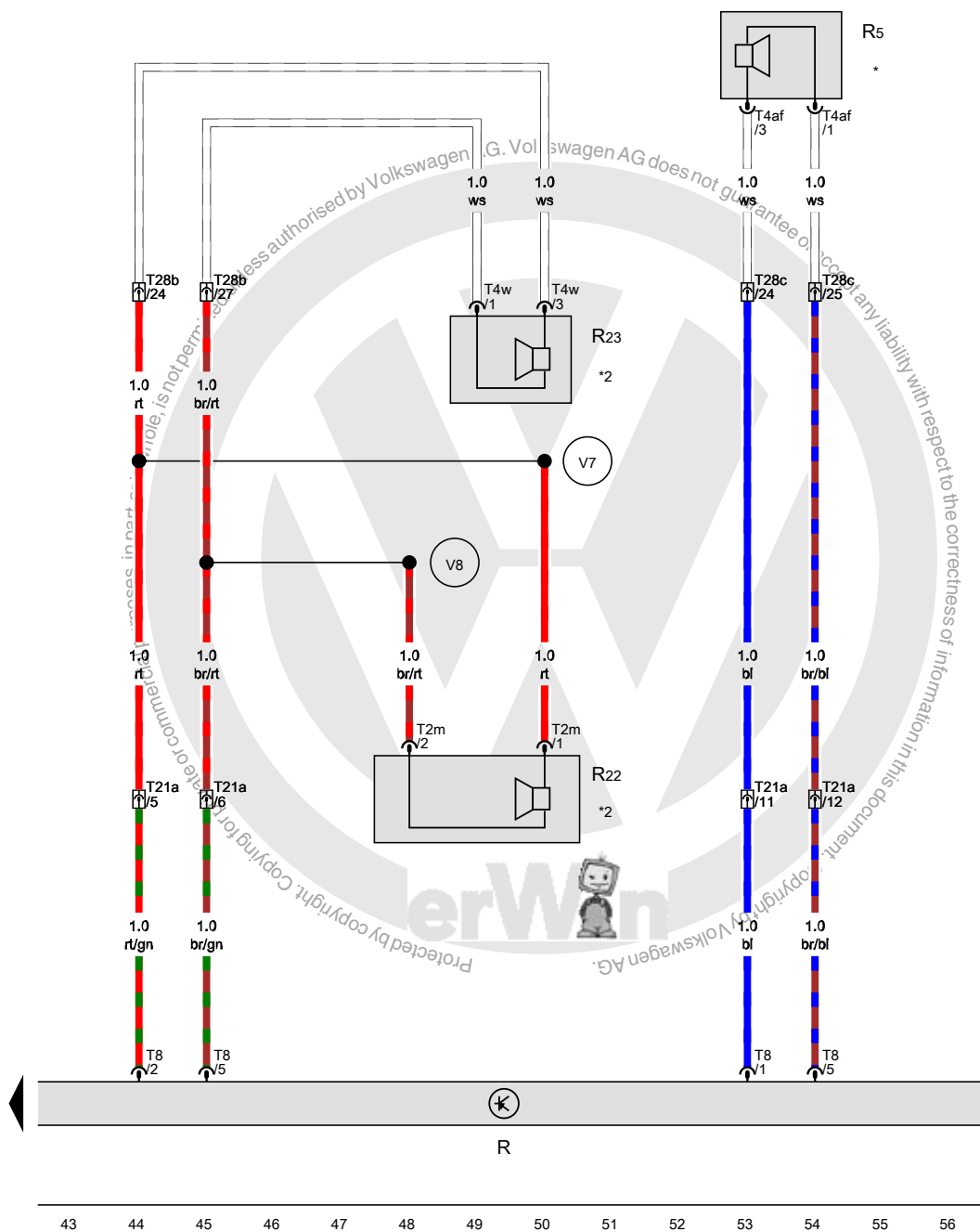
- J519 Onboard supply control unit
- R Radio
- R2 Front left loudspeaker
- R3 Front right loudspeaker
- T4s 4-pin connector
- T4w 4-pin connector
- T8 8-pin connector
- T8a 8-pin connector
- T16 16-pin connector
- T21a 21-pin connector, on relay carrier
- T28a 28-pin connector, on left A-pillar
- T28b 28-pin connector, on right A-pillar
- T73b 73-pin connector
- U31 Diagnostic connection, near driver side A-pillar
- A146 Connection (convenience CAN bus, high), in dash panel wiring harness
- A147 Connection (convenience CAN bus, low), in dash panel wiring harness
- \* Only models with 2 loudspeakers (8RD)

Radio, Rear left loudspeaker, Front left treble loudspeaker,  
Front left bass loudspeaker

- R Radio
- R4 Rear left loudspeaker
- R20 Front left treble loudspeaker
- R21 Front left bass loudspeaker
- T2m 2-pin connector
- T4ad 4-pin connector
- T4s 4-pin connector
- T8 8-pin connector
- T21a 21-pin connector, on relay carrier
- T28 28-pin connector, on left B-pillar
- T28a 28-pin connector, on left A-pillar
- V9 Connection (positive, front right loudspeaker), in loudspeaker wiring harness
- V10 Connection (negative, front right loudspeaker), in loudspeaker wiring harness
- \* Only models with equipment (6-passive loudspeakers)
- \*2 Only models with 4 or 6 loudspeakers



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



Radio, Rear right loudspeaker, Front right treble loudspeaker, Front right bass loudspeaker

- R Radio
- R5 Rear right loudspeaker
- R22 Front right treble loudspeaker
- R23 Front right bass loudspeaker
- T2m 2-pin connector
- T4af 4-pin connector
- T4w 4-pin connector
- T8 8-pin connector
- T21a 21-pin connector
- T28b 28-pin connector, on right A-pillar
- T28c 28-pin connector, on right B-pillar
- V7 Connection (positive, front left loudspeaker), in loudspeaker wiring harness
- V8 Connection (negative, front left loudspeaker), in loudspeaker wiring harness
- \* Only models with equipment (6-passive loudspeakers)
- \*2 Only models with 4 or 6 loudspeakers

Radio, Aerial, Aerial amplifier

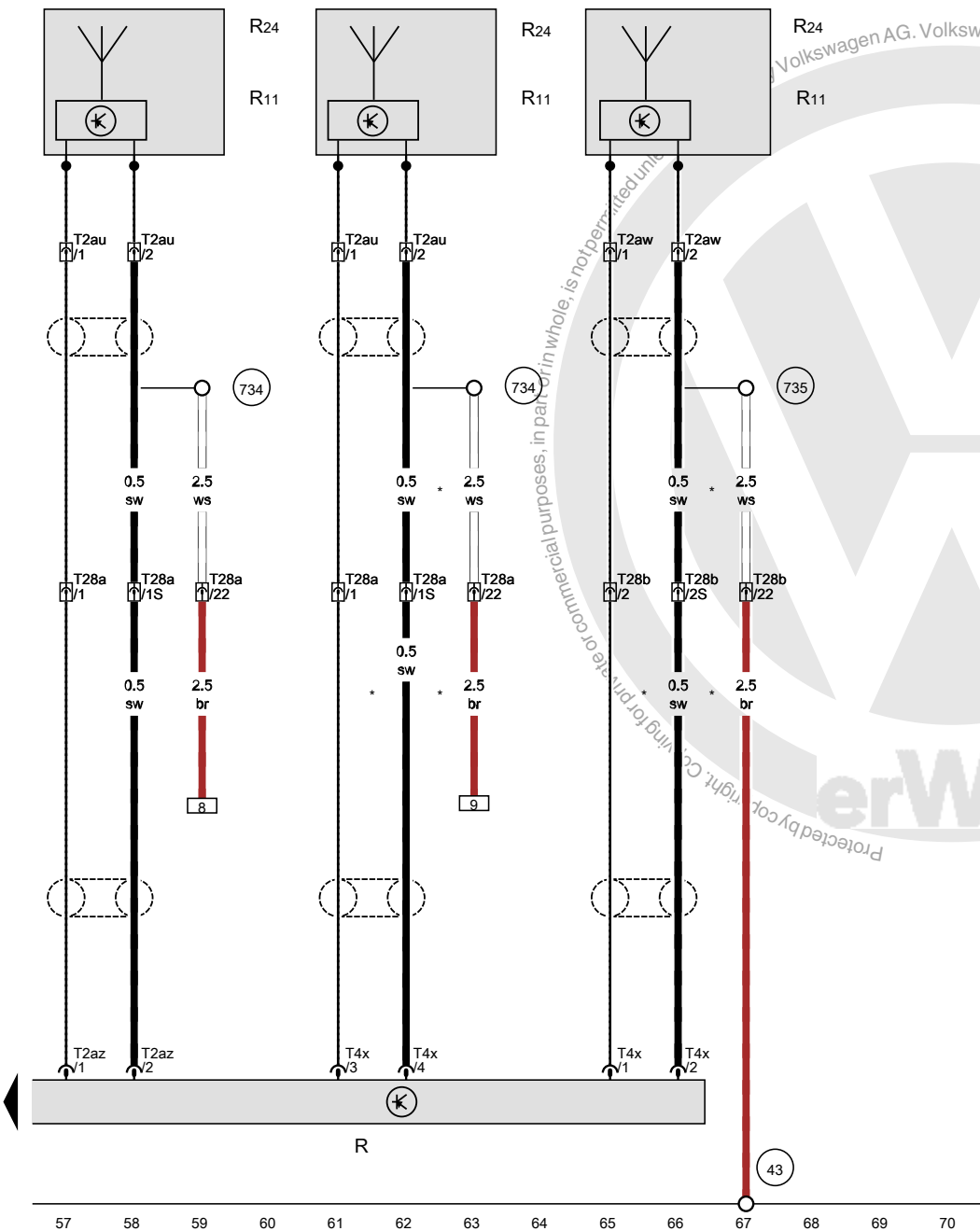
- R Radio
- R11 Aerial
- R24 Aerial amplifier
- T2au 2-pin connector, in left door, near exterior mirror
- T2aw 2-pin connector, in right door, near exterior mirror
- T2az 2-pin connector
- T4x 4-pin connector
- T28a 28-pin connector, on left A-pillar
- T28b 28-pin connector, on right A-pillar

43 Earth point, lower part of right A-pillar

734 Earth point in front left door

735 Earth point in front right door

\* Only models with radio RCD 310/RCD 510



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- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

## 1 Overview of earth points

### 3 - 3 Earth point, engine - body

- ☐ Location ⇒ [page 2](#)
- ☐ Torque  $9 \pm 1$  Nm

### 656 - 656 Earth point, on right headlight

- ☐ Location ⇒ [page 2](#)
- ☐ Torque  $9 \pm 1$  Nm

### 43 - 43 Earth point, lower part of right A-pillar

- ☐ Location ⇒ [page 3](#)
- ☐ Torque  $9 \pm 1$  Nm

### 735 - 735 Earth point in the front right door

- ☐ Location ⇒ [page 3](#)
- ☐ Torque 9 Nm

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

- ☐ Location ⇒ [page 3](#)
- ☐ Torque 1,5 Nm

### 61 - 61 Earth point, left C-pillar

- ☐ Location ⇒ [page 4](#)
- ☐ Torque 1,5 Nm

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

- ☐ Location ⇒ [page 4](#)
- ☐ Torque 9 Nm

### 42 - 42 Earth point, next to steering column

- ☐ Location ⇒ [page 4](#)
- ☐ Torque 9 Nm

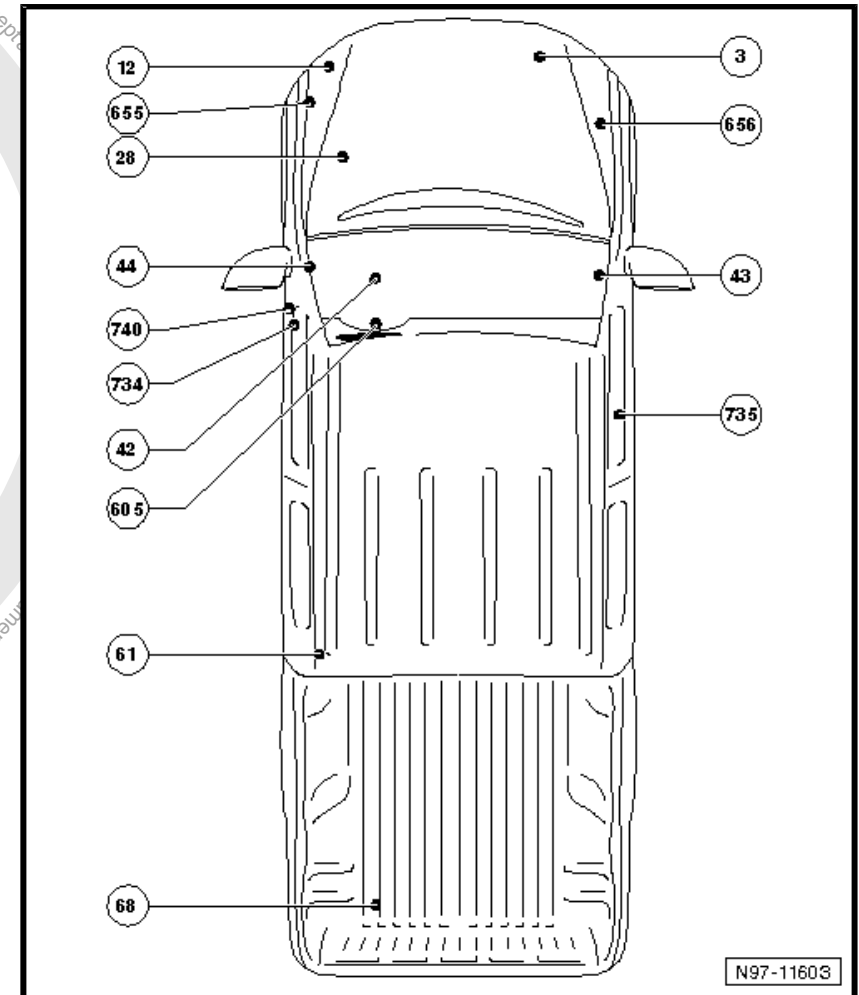
### 734 - 734 Earth point in the front left door

- ☐ Location ⇒ [page 4](#)
- ☐ Torque 9 Nm

### 740 - 740 Earth point 2 in the front left door

- ☐ Location ⇒ [page 4](#)
- ☐ Torque 9 Nm

### 44 - 44 Earth point, lower part of left A-pillar



- ☐ Location [⇒ page 5](#)
- ☐ Torque  $9 \pm 1$  Nm

**28 - 28 Earth point, front left engine compartment**

- ☐ Location [⇒ page 5](#)
- ☐ Torque  $9 \pm 1$  Nm

**655 - 655 Earth point, on left headlight**

- ☐ Location [⇒ page 6](#)
- ☐ Torque  $9 \pm 1$  Nm

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

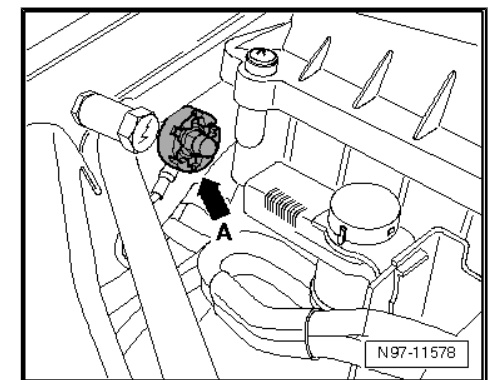
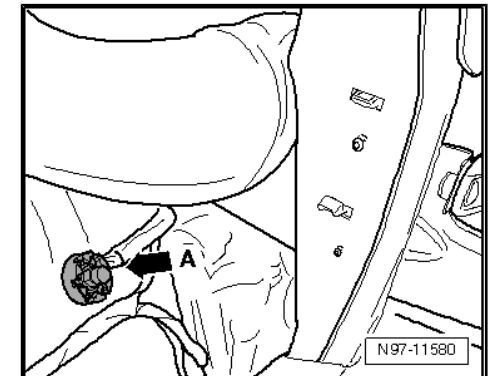
- ☐ Location [⇒ page 6](#)
- ☐ Torque  $20 \pm 2$  Nm

**1.1 Earth point, engine - body**

3 - Earth point, right behind headlight -arrow A-

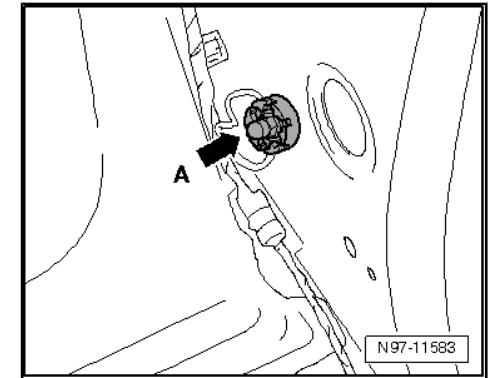
**1.2 Earth point, on right headlight**

656 - Earth point, on right headlight -arrow A-



### 1.3 Earth point, lower part of right A-pillar

43 - Earth point, lower part of right A-pillar -arrow A-



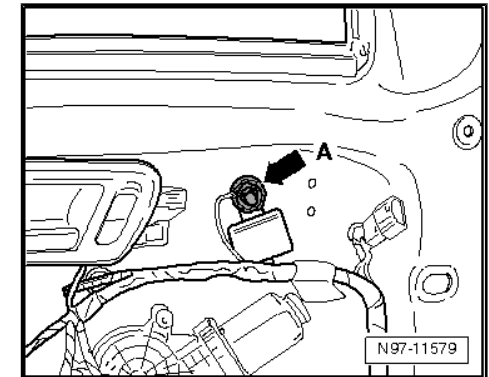
### 1.4 Earth point, front right A-pillar

735 - Earth point in the front right door -arrow A-



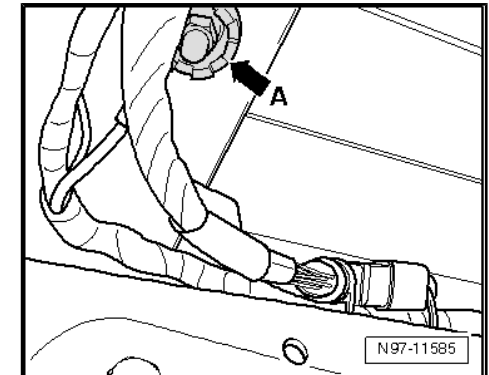
**Note**

*The illustration shows the front left door. The front right door is similar.*



### 1.5 Earth point, on left of rear cross member

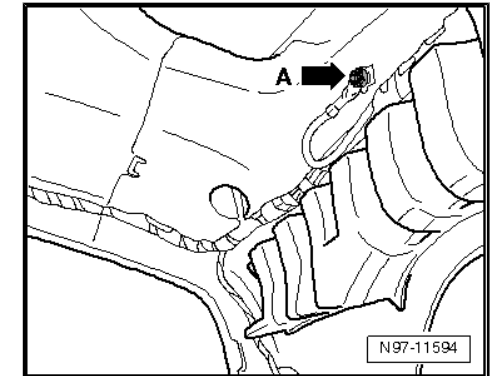
68 - Earth point, on left of rear cross member -arrow A-





## 1.6 Earth point, left C-pillar

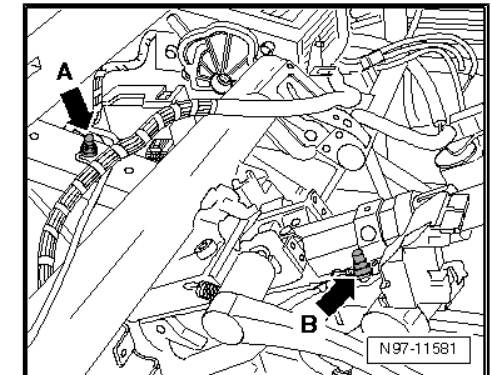
61 - Earth point, upper left C-pillar -arrow A-



## 1.7 Earth point, next to steering column

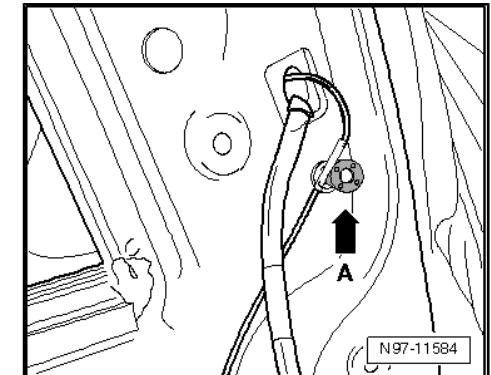
42 - Earth point, next to steering column -arrow A-

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



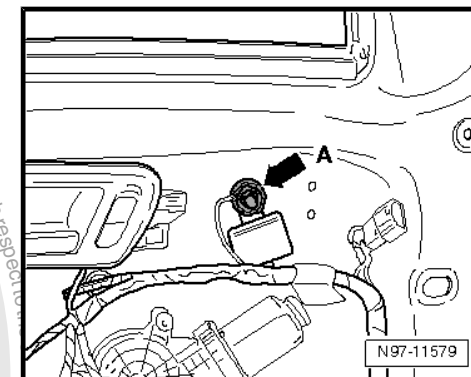
## 1.8 Earth point, front left door

734 - Earth point in the front left door -arrow A-



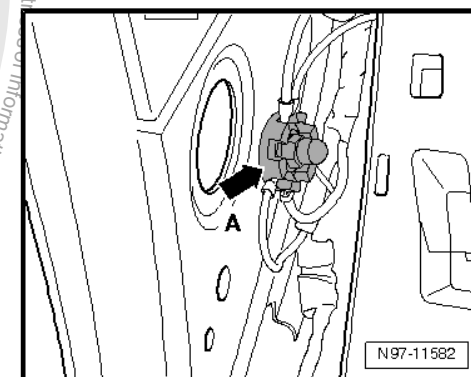
### 1.9 Earth point 2, front left door

740 - Earth point 2 in the front left door -arrow A-



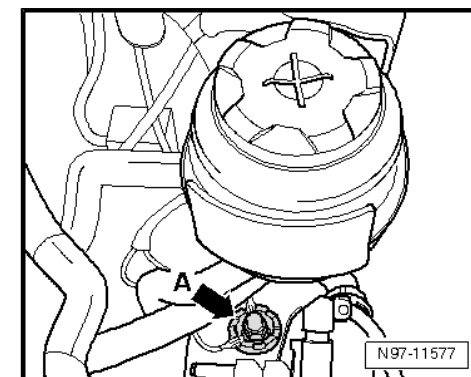
### 1.10 Earth point, lower part of left A-pillar

44 - Earth point, lower part of left A-pillar -arrow A-



### 1.11 Earth point, in front left engine compartment

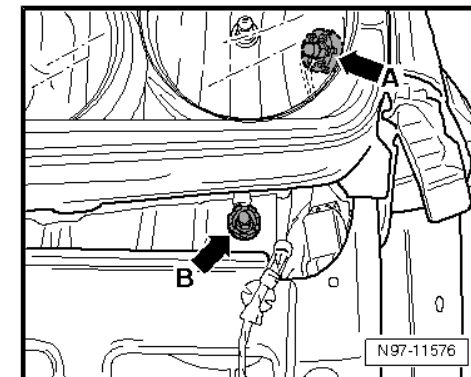
28 - Earth point, in front left engine compartment -arrow A-



## 1.12 Earth points, in front left engine compartment

655 - Earth point, on left headlight -arrow A-

12 - Earth point, in engine compartment, left -arrow B-



## 1 Overview of fuses

### 1 - Fuse holder A -SA-

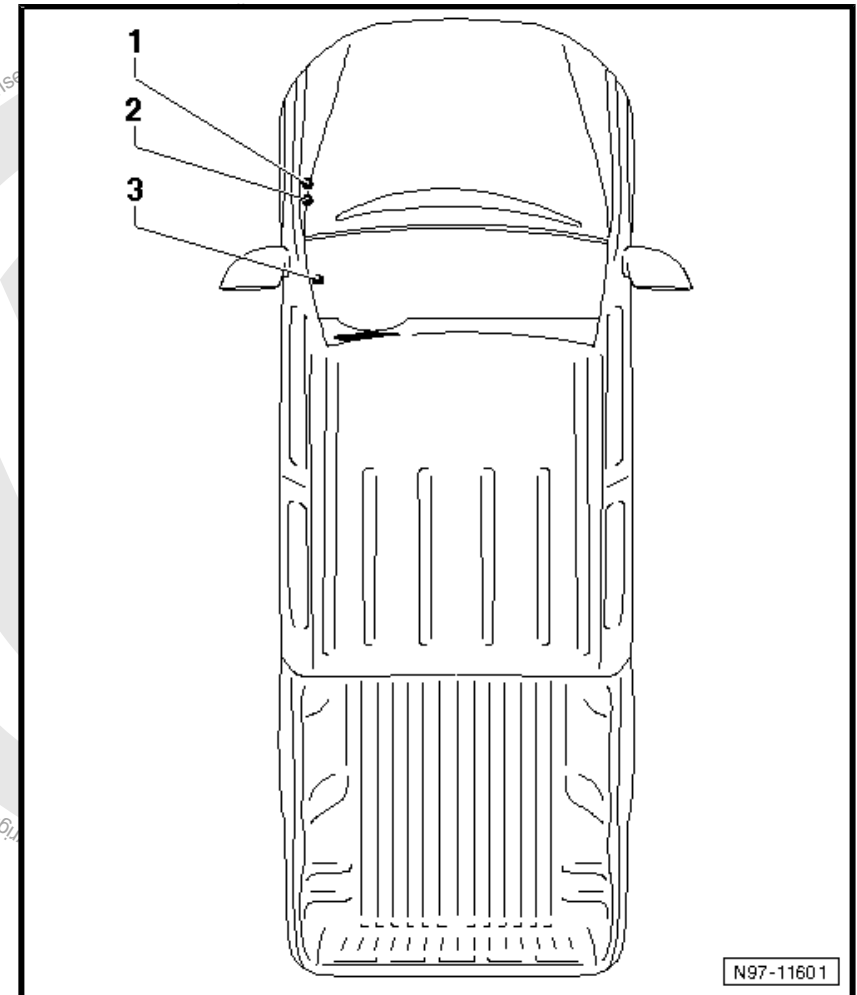
- ☐ Location ⇒ [page 2](#)
- ☐ Fuse colours ⇒ [page 2](#)
- ☐ Position of fuses ⇒ [page 3](#)

### 2 - Fuse holder B -SB-

- ☐ Location ⇒ [page 3](#)
- ☐ Fuse colours ⇒ [page 4](#)
- ☐ Position of fuses ⇒ [page 5](#)

### 3 - Fuse holder C -SC-

- ☐ Location ⇒ [page 5](#)
- ☐ Fuse colours ⇒ [page 6](#)
- ☐ Position of fuses ⇒ [page 7](#)



## 1.1 Fuse holder A -SA-

### 1.1.1 Location

- ◆ Fuse on fuse holder, on the battery

### 1.1.2 Fuse colours

200 A - purple

150 A - grey

125 A - pink

100 A - blue

80 A - white

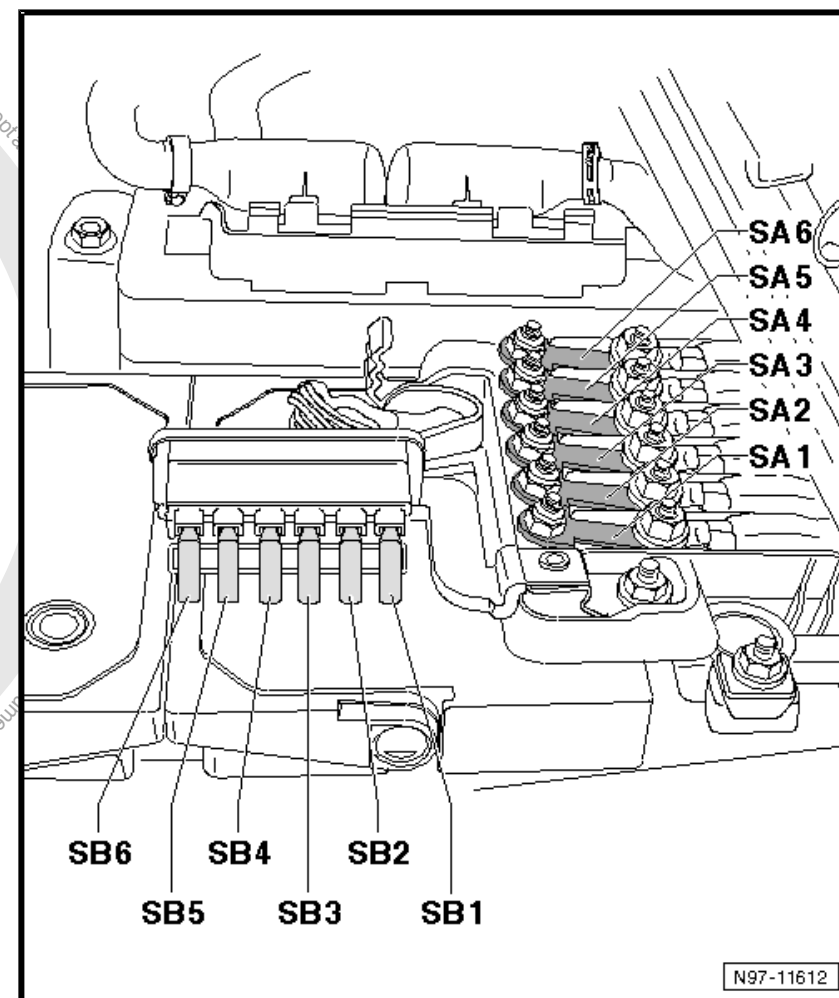
70 A - brown

60 A - yellow

50 A - red

40 A - green

30 A - orange



### 1.1.3 Position of fuses on fuse holder A

No.	Current Flow Diagram designation	No min al value	Function/component
1	Fuse 1 on fuse holder A -SA1-	175 A	Alternator -C-
2	Fuse 2 on fuse holder A -SA2-	175 A	Fuse 4 on fuse holder C -SC4- Fuse 8 on fuse holder C -SC8- Fuse 11 on fuse holder C -SC11- Fuse 15 on fuse holder C -SC15- Fuse holder C -SC19 - SC24- Fuse holder C -SC43 - SC51- Fuse holder C -SC62 - SC64 - Fuse holder C -SC66 - SC67 -
3	Fuse 3 on fuse holder A -SA3-	40A	Interface for external use
4	Fuse 4 on fuse holder A -SA4-	80/ 110 A	Radiator fan -V7-
5	Fuse 5 on fuse holder A -SA5-	50A	Automatic glow period control unit -J179-
6	Fuse 6 on fuse holder A -SA6-	80A	Fuse holder C -SC39 - SC41-

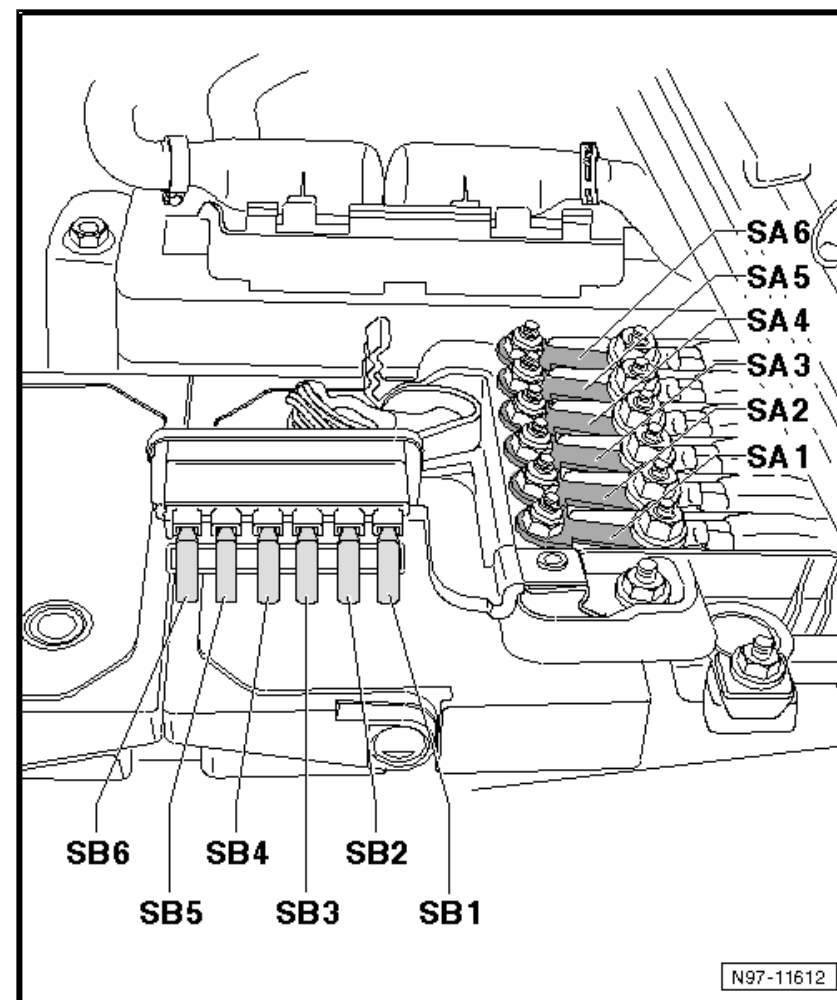
## 1.2 Fuse holder B -SB-

### 1.2.1 Location

- ◆ Fuse on fuse holder, on the battery

## 1.2.2 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 - purple



N97-11612

### 1.2.3 Fuse locations on fuse holder B

No.	Current Flow Diagram designation	Nominal value	Function/component
1	Fuse 1 on fuse holder B -SB1-	30A	ABS control unit -J104-
2	Fuse 2 on fuse holder B -SB2-	30A	Fuel pump relay -J17- Fuel system pressurisation pump -G6-
3	Fuse 3 on fuse holder B -SB3-	10A	ABS control unit -J104-
4	Fuse 4 on fuse holder B -SB4-	5A	Onboard supply control unit -J519-
5	Fuse 5 on fuse holder B -SB5-	-	Vacant
6	Fuse 6 on fuse holder B -SB6-	-	Vacant

### 1.3 Fuse holder C -SC-

#### 1.3.1 Location

- ◆ In interior, on left dash panel





### 1.3.2 Fuse colours

30 A - green

25 A - white

20 A - yellow

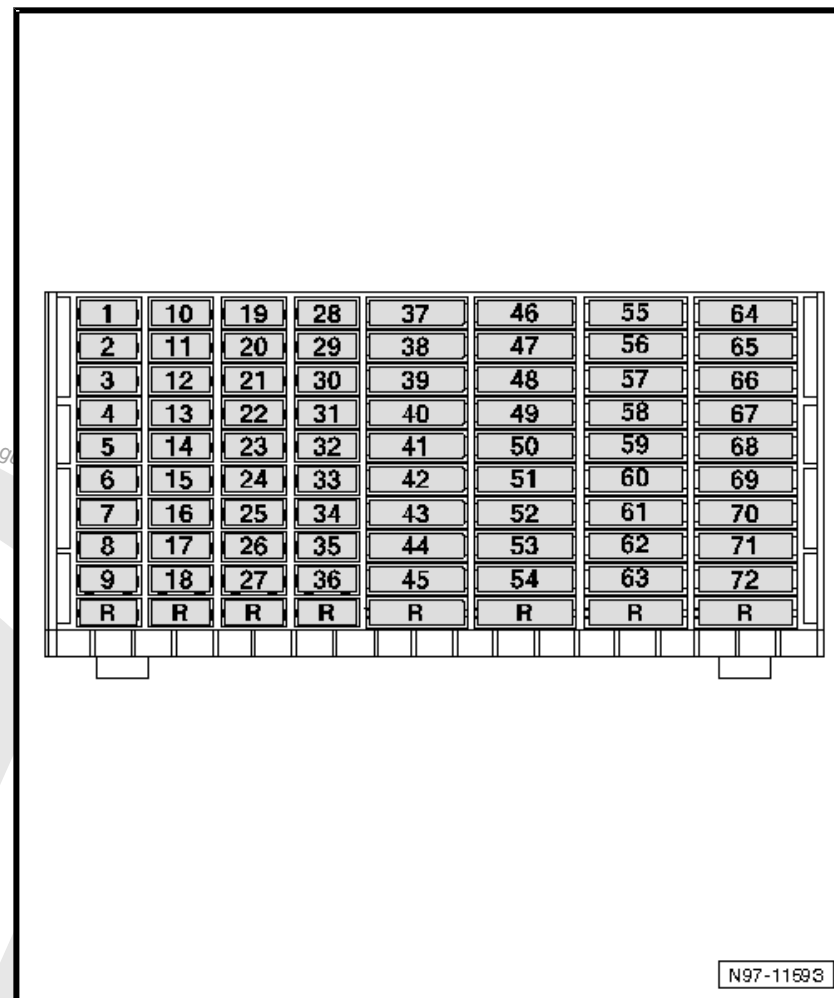
15 A - blue

10 A - red

7,5 A - brown

5 A - beige

3 A - purple




### 1.3.3 Position of fuses on fuse holder C

No.	Current Flow Diagram designation	Nominal value	Function/component
1	Fuse 1 on fuse holder C -SC1-	10A	- ABS control unit -J104- , TCS and ESP button -E256- , Driving program button -E598-
2	Fuse 2 on fuse holder C -SC2-	10A	- Steering column electronics control unit -J527-
3	Fuse 3 on fuse holder C -SC3-	10A	- Reversing switch -F41-
4	Fuse 4 on fuse holder C -SC4-	15A	- Onboard supply control unit -J519-
5	Fuse 5 on fuse holder C -SC5-	5A	- Air mass meter -G70-
6	Fuse 6 on fuse holder C -SC6-	5A	- Trailer detector control unit -J345-
7	Fuse 7 on fuse holder C -SC7-	5A	- Interface for external use
8	Fuse 8 on fuse holder C -SC8-	10A	- Electronic ignition lock -D9-
9	Fuse 9 on fuse holder C -SC9-	10A	- Airbag control unit -J234- , Front passenger side airbag deactivated warning lamp -K145-
10	Fuse 10 on fuse holder C -SC10-	5A	- Engine control unit -J623-
11	Fuse 11 on fuse holder C -SC11-	15A	- Differential lock control unit -J187-
12	Fuse 12 on fuse holder C -SC12-	10A	- Fuel pump 1 -V276-
13	Fuse 13 on fuse holder C -SC13-	5A	- Exhaust flap valve -N220- , Exhaust gas recirculation cooler change-over valve -N345- , Charge pressure control solenoid valve -N75-
14	Fuse 14 on fuse holder C -SC14-	15A	- Continued coolant circulation pump -V51-
15	Fuse 15 on fuse holder C -SC15-	5A	- Engine control unit -J623-

N o .	Current Flow Diagram designation	Nom inal valu e	Function/component
1 6	Fuse 16 on fuse holder C -SC16-	10A	- Rear fog light warning lamp -K13- , Rear left fog light bulb -L46- , Rear right fog light bulb -L47-
1 7	Fuse 17 on fuse holder C -SC17-	5A	- Right tail light bulb -M2- , Right side light bulb -M3-
1 8	Fuse 18 on fuse holder C -SC18-	5A	- Left side light bulb -M1- , Left tail light bulb -M4-
1 9	Fuse 19 on fuse holder C -SC19-	15A	- Onboard supply control unit -J519-
2 0	Fuse 20 on fuse holder C -SC20-	15A	- Onboard supply control unit -J519-
2 1	Fuse 21 on fuse holder C -SC21-	5A	- Onboard supply control unit -J519-
2 2	Fuse 22 on fuse holder C -SC22-	-	- Vacant
2 3	Fuse 23 on fuse holder C -SC23-	15A	- Engine control unit -J623-
2 4	Fuse 24 on fuse holder C -SC24-	10A	- Alarm horn -H12-
2 5	Fuse 25 on fuse holder C -SC25-	10A	- Heater element for crankcase breather -N79-
2 6	Fuse 26 on fuse holder C -SC26-	5A	- Right day driving light bulb -L175-
2 7	Fuse 27 on fuse holder C -SC27-	5A	- Left day driving light bulb -L174-
2 8	Fuse 28 on fuse holder C -SC28-	15A	- Number plate left light -X4- , Number plate right light -X5-
2 9	Fuse 29 on fuse holder C -SC29-	10A	- Left headlight range control motor -V48-
3 0	Fuse 30 on fuse holder C -SC30-	10A	- Left main beam bulb -L125-
3 1	Fuse 31 on fuse holder C -SC31-	-	- Vacant
3 2	Fuse 32 on fuse holder C -SC32-	10A	- Right main beam bulb -L126-
3 3	Fuse 33 on fuse holder C -SC33-	5A	- Mirror adjustment switch -E43-

N o .	Current Flow Diagram designation	Nom inal valu e	Function/component
3 4	Fuse 34 on fuse holder C -SC34-	15A	- Vacant
3 5	Fuse 35 on fuse holder C -SC35-	15A	- Lambda probe 1 upstream of catalytic converter -GX10-
3 6	Fuse 36 on fuse holder C -SC36-	5A	- Engine control unit -J623-
3 7	Fuse 37 on fuse holder C -SC37-	-	- Vacant
3 8	Fuse 38 on fuse holder C -SC38-	15A	- 12 V socket -U5-
3 9	Fuse 39 on fuse holder C -SC39-	25A	- Trailer detector control unit -J345-
4 0	Fuse 40 on fuse holder C -SC40-	25A	- Trailer detector control unit -J345-
4 1	Fuse 41 on fuse holder C -SC41-	25A	- Trailer detector control unit -J345-
4 2	Fuse 42 on fuse holder C -SC42-	15A	- Diagnostic connection -U31- , Steering column electronics control unit -J527- , Air conditioning system pressure switch -F129- , Air quality sensor -G238- , Differential lock control unit -J187- , Transfer box control unit -J646- , Dash panel insert -K- , High level brake light bulb -M25- , Brake light switch -F- , Display unit -K40-
4 3	Fuse 43 on fuse holder C -SC43-	25A	- Onboard supply control unit -J519-
4 4	Fuse 44 on fuse holder C -SC44-	30A	- Onboard supply control unit -J519-
4 5	Fuse 45 on fuse holder C -SC45-	15A	- Diagnostic connection -U31- , Dash panel insert -K- , Steering column electronics control unit -J527- , Air conditioning system control unit -J301- , Climatronic control unit -J255- , Heater/heat output switch -E16-



N o. .	Current Flow Diagram designation	Nom inal valu e	Function/component
4 6	Fuse 46 on fuse holder C -SC46-	25A	- Transfer box control unit -J646-
4 7	Fuse 47 on fuse holder C -SC47-	20A	- Onboard supply control unit -J519-
4 8	Fuse 48 on fuse holder C -SC48-	20A	- Driver door control unit -J386-
4 9	Fuse 49 on fuse holder C -SC49-	20A	- Front passenger door control unit -J387-
5 0	Fuse 50 on fuse holder C -SC50-	20A	- Rear left door control unit -J388-
5 1	Fuse 51 on fuse holder C -SC51-	20A	- Rear right door control unit -J389-
5 2	Fuse 52 on fuse holder C -SC52-	15A	- Electric socket -U-
5 3	Fuse 53 on fuse holder C -SC53-	20A	- Left fog light bulb -L22- , Right fog light bulb -L23-
5 4	Fuse 54 on fuse holder C -SC54-	15A	- Cigarette lighter -U1-
5 5	Fuse 55 on fuse holder C -SC55-	15A	- Right headlight range control motor -V49-
5 6	Fuse 56 on fuse holder C -SC56-	-	- Vacant
5 7	Fuse 57 on fuse holder C -SC57-	30A	- Seat heating button, left -E653- , Seat heating button, right -E654- , Seat heating control unit -J882-
5 8	Fuse 58 on fuse holder C -SC58-	-	- Vacant
5 9	Fuse 59 on fuse holder C -SC59-	20A	- 12 V socket -UX3-
6 0	Fuse 60 on fuse holder C -SC60-	5A	- Trailer detector control unit -J345- , Diagnostic connection -U31- , Onboard supply control unit -J519-
6 1	Fuse 61 on fuse holder C -SC61-	5A	- Trailer detector control unit -J345- , Diagnostic connection -U31- , Onboard supply control unit -J519- , 
6 2	Fuse 62 on fuse holder C -SC62-	20A	- Auxiliary heater control unit -J364- , Circulation pump -V55-

No.	Current Flow Diagram designation	Nominal value	Function/component
63	Fuse 63 on fuse holder C -SC63-	10A	- Load area illumination bulb -M53-
64	Fuse 64 on fuse holder C -SC64-	30A	- Heater/heat output switch -E16- , Climatronic control unit -J255- Air conditioning system control unit -J301-
65	Fuse 65 on fuse holder C -SC65-	15A	- Engine control unit -J623-
66	Fuse 66 on fuse holder C -SC66-	30A	- Onboard supply control unit -J519-
67	Fuse 67 on fuse holder C -SC67-	30A	- Radio -R- , Control unit with display for radio and navigation system -J503-
68	Fuse 68 on fuse holder C -SC68-	-	- Vacant
69	Fuse 69 on fuse holder C -SC69-	15A	- Interface for external use
70	Fuse 70 on fuse holder C -SC70-	5A	- Interface for external use
71	Fuse 71 on fuse holder C -SC71-	25A	- Interface for external use
72	Fuse 72 on fuse holder C -SC72-	10A	- Interface for external use

## 1 Control units overview

### 1 - Automatic glow period control unit -J179-

- ☐ Location ⇒ [page 3](#)

### 2 - Transfer box control unit -J646-

- ☐ Location ⇒ [page 3](#)
- ☐ Connector assignment ⇒ [page 4](#)

### 3 - Trailer detector control unit -J345-

- ☐ Location ⇒ [page 3](#)
- ☐ Connector assignment ⇒ [page 5](#)

### 4 - Parking aid control unit -J446-

- ☐ Location ⇒ [page 6](#)
- ☐ Connector assignment ⇒ [page 7](#)

### 5 - Seat heating control unit -J882-

- ☐ Location ⇒ [page 8](#)

### 6 - Climatronic control unit -J255-

- ☐ Location ⇒ [page 9](#)
- ☐ Connector assignment ⇒ [page 9](#)

### 6 - Air conditioning system control unit -J301-

- ☐ Location ⇒ [page 9](#)
- ☐ Connector assignment ⇒ [page 10](#)

### 6 - Heater/heat output switch -E16-

- ☐ Location ⇒ [page 10](#)
- ☐ Connector assignment ⇒ [page 11](#)

### 7 - Front passenger door control unit -J387-

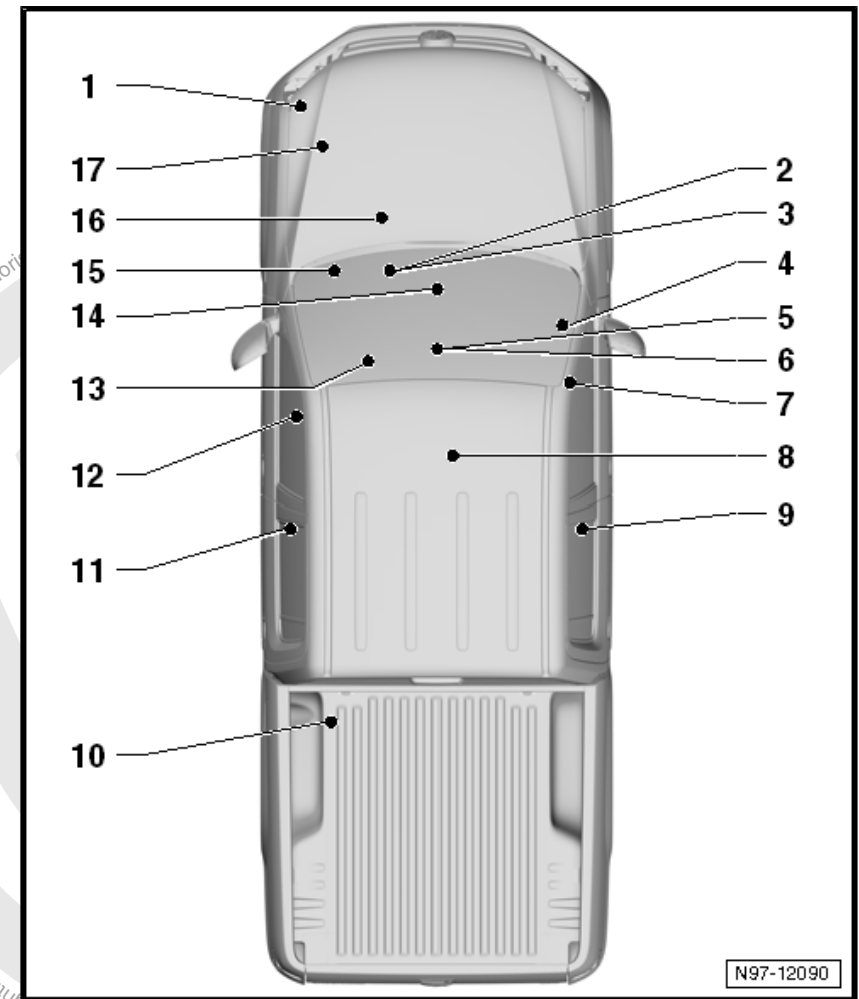
- ☐ Location ⇒ [page 11](#)
- ☐ Connector assignment ⇒ [page 12](#)

### 8 - Differential lock control unit -J187-

- ☐ Location ⇒ [page 12](#)
- ☐ Connector assignment ⇒ [page 13](#)

### 9 - Rear right door control unit -J389-

- ☐ Location ⇒ [page 13](#)
- ☐ Connector assignment ⇒ [page 14](#)



**10 - Fuel pump control unit -J538-**

- ☐ Location ⇒ [page 14](#)
- ☐ Connector assignment ⇒ [page 14](#)

**11 - Rear left door control unit -J388-**

- ☐ Location ⇒ [page 15](#)
- ☐ Connector assignment ⇒ [page 16](#)

**12 - Driver door control unit -J386-**

- ☐ Location ⇒ [page 16](#)
- ☐ Connector assignment ⇒ [page 17](#)

**13 - Control unit in dash panel insert -J285-**

- ☐ Location ⇒ [page 17](#)
- ☐ Connector assignment ⇒ [page 18](#)

**14 - Airbag control unit -J234-**

- ☐ Location ⇒ [page 19](#)
- ☐ Connector assignment ⇒ [page 20](#)

**15 - Onboard supply control unit -J519-**

- ☐ Location ⇒ [page 20](#)
- ☐ Connector assignment ⇒ [page 21](#)

**16 - ABS control unit -J104-**

- ☐ Location ⇒ [page 28](#)
- ☐ Connector assignment ⇒ [page 28](#)

**17 - Engine control unit -J623-**

- ☐ Location ⇒ [page 29](#)
- ☐ Connector assignment ⇒ [page 29](#)



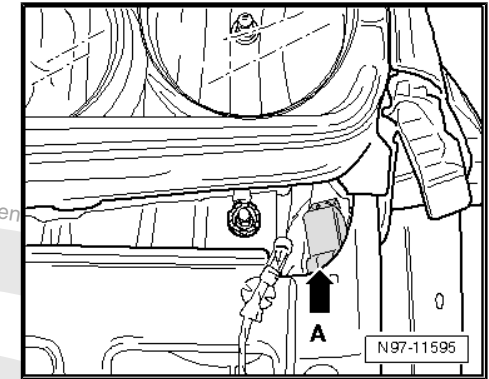


## 1.1 Automatic glow period control unit -J179-

### 1.1.1 Location

In front left engine compartment -arrow A-

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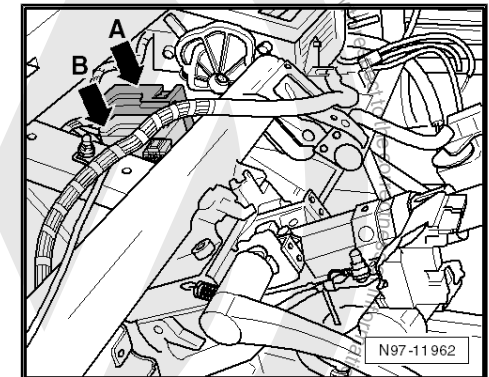
## 1.2 Trailer detector control unit -J345- and Transfer box control unit -J646-

### 1.2.1 Location

Transfer box control unit -J646- Left under dash panel  
-Arrow A-

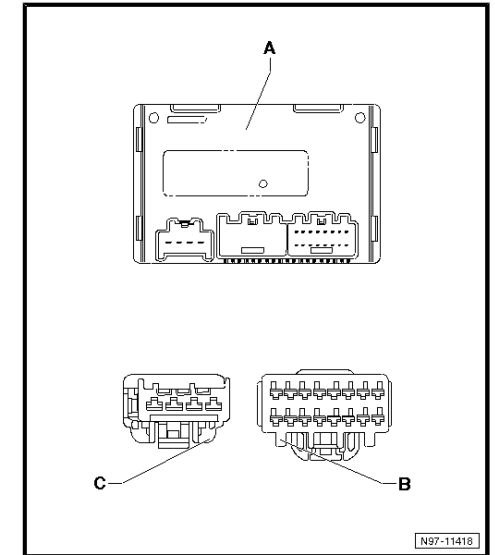
Trailer detector control unit -J345- Left under dash panel  
-Arrow B-

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### 1.2.2 Connector assignment of Transfer box control unit -J646-

A - Transfer box control unit -J646-



### 1.2.3 Pin connector

B - 16-pin connector -T16a-

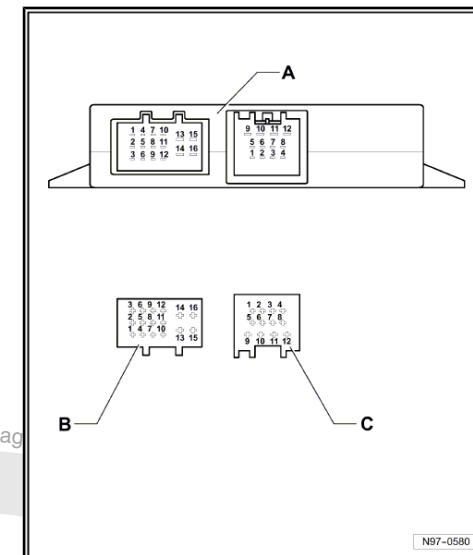
C - 4-pin connector -T4d-

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### 1.2.4 Connector assignment of trailer detector control unit -J345-

A - Trailer detector control unit -J345-



### 1.2.5 Pin connector

B - 16-pin connector -T16n-

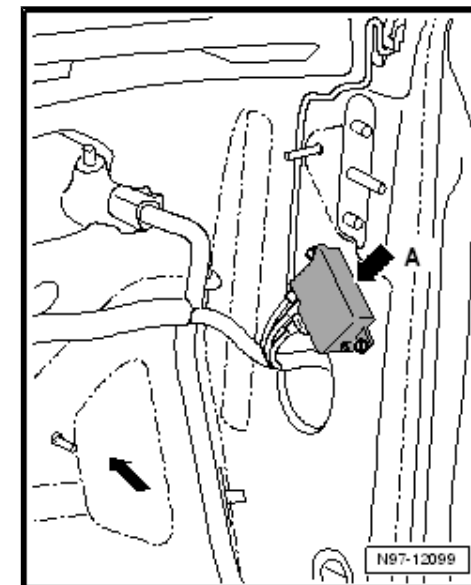
C - 12-pin connector -T12-

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### 1.3 Parking aid control unit -J446-

#### 1.3.1 Location

on right A-pillar -arrow A-



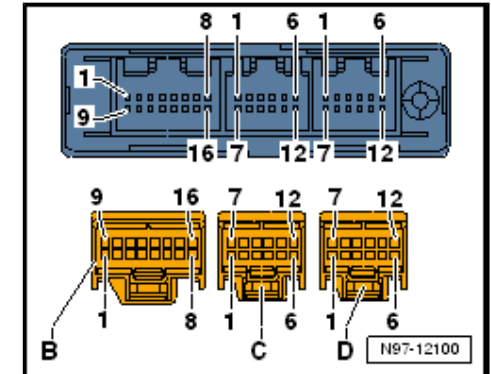
### 1.3.2 Pin connector

B - 16-pin connector -T16p-

- 1 - Terminal 15
- 2 - Rear warning buzzer
- 3 - Vacant
- 4 - Button
- 5 - Vacant
- 6 - CAN-bus high
- 7 - Vacant
- 8 - Terminal 31
- 9 - Vacant
- 10 - Rear warning buzzer +12V
- 11 - Vacant
- 12 - Vacant
- 13 - Function display
- 14 - Vacant
- 15 - CAN-bus low
- 16 - Vacant

C - 12-pin connector -T12a-

- 1 - Front earth transformer
- 2 - Front voltage transformer
- 3 - Front warning buzzer
- 4 - Front warning buzzer +12V
- 5 - Front left signal
- 6 - Front centre left signal
- 7 - Front centre right signal
- 8 - Front right signal
- 9 - Vacant
- 10 - Vacant



11 - Vacant

12 - Vacant

D - 12-pin connector -T12c-

1 - Vacant

2 - Rear centre right signal

3 - Rear centre left signal

4 - Rear right signal

5 - Rear left signal

6 - Vacant

7 - Vacant

8 - Rear earth

9 - Vacant

10 - Vacant

11 - Rear voltage

12 - Vacant

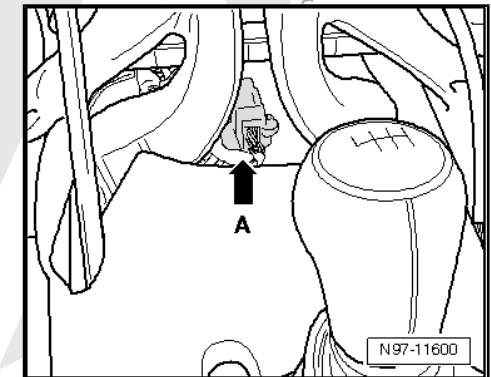
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## 1.4 Seat heating control unit -J882-

### 1.4.1 Location

Under centre dash panel -arrow A-

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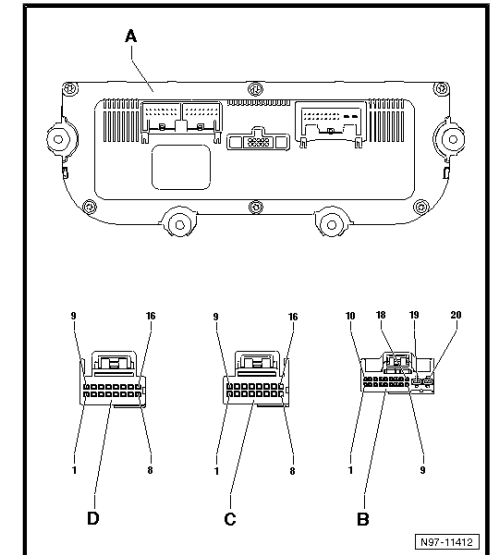
## 1.5 Climatronic control unit -J255-

### 1.5.1 Location

in centre dash panel

### 1.5.2 Connector assignment

A - Climatronic control unit -J255-



### 1.5.3 Pin connector

B - 20-pin connector -T20a-

C - 16-pin connector -T16l-

D - 16-pin connector -T16m-

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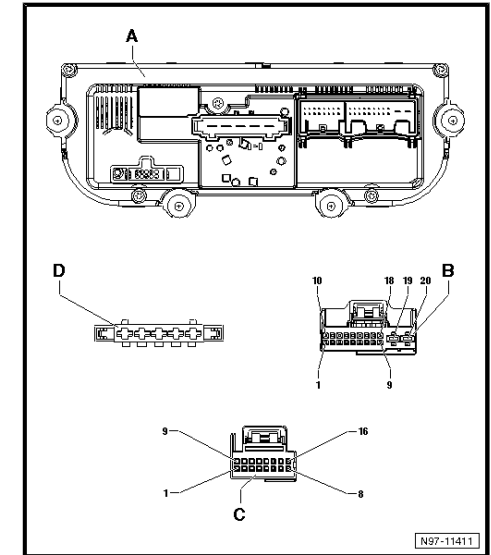
## 1.6 Air conditioning system control unit -J301-

### 1.6.1 Location

in centre dash panel

## 1.6.2 Connector assignment

A - Air conditioning system control unit -J301-



## 1.6.3 Pin connector

B - 20-pin connector -T20-

C - 16-pin connector -T16k-

D - 5-pin connector -T5n-

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## 1.7 Heater/heat output switch -E16-

### 1.7.1 Location

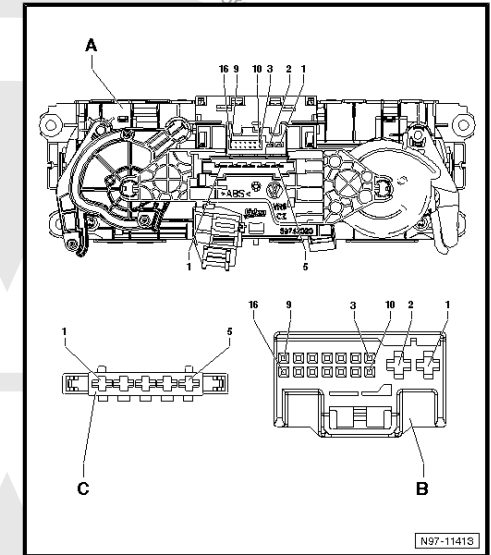
in centre dash panel





## 1.7.2 Connector assignment

A - Heater/heat output switch -E16-



## 1.7.3 Pin connector

B - 16-pin connector -T16g-

C - 5-pin connector -T5-

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## 1.8 Front passenger door control unit -J387-

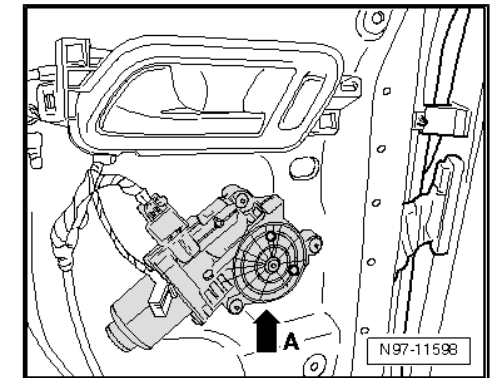
### 1.8.1 Location

In right front passenger side -arrow A-



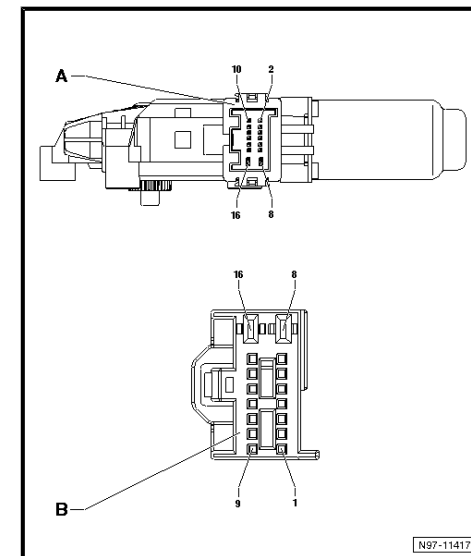
**Note**

*The illustration shows the rear left door. The front right door is similar.*



## 1.8.2 Connector assignment

A - Front passenger door control unit -J387-



## 1.8.3 Pin connector

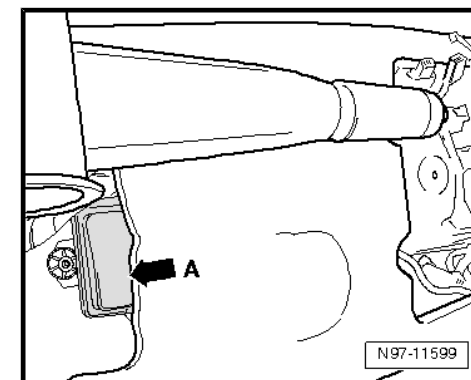
B - 16-pin connector -T16f-

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## 1.9 Differential lock control unit -J187-

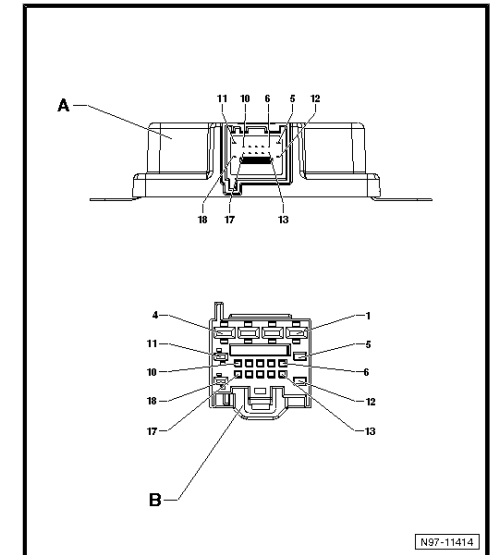
### 1.9.1 Location

under the centre console, near handbrake lever -arrow A-



## 1.9.2 Connector

A - Differential lock control unit -J187-



## 1.9.3 Pin connector

B - 18-pin connector -T18b-

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## 1.10 Rear right door control unit -J389-

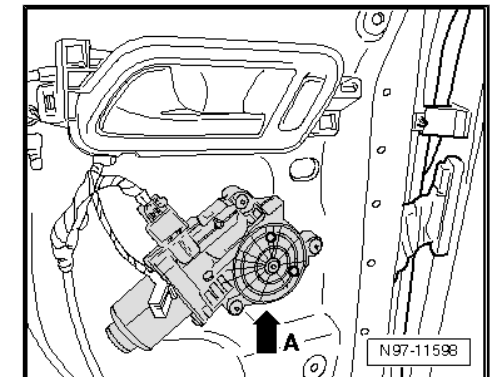
### 1.10.1 Location

in rear right door -arrow A-



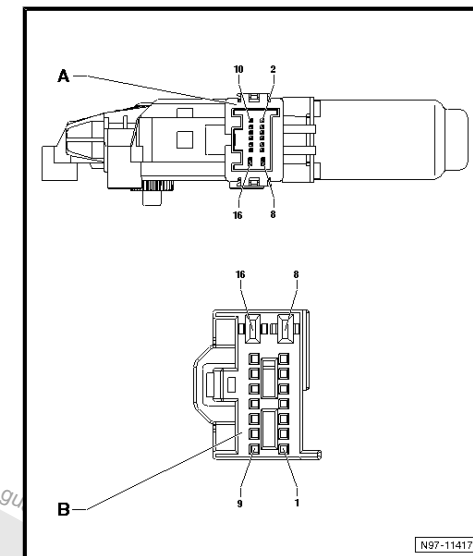
**Note**

*The illustration shows the rear left door. The rear right door is similar.*



### 1.10.2 Connector assignment

A - Rear right door control unit -J389-



### 1.10.3 Pin connector

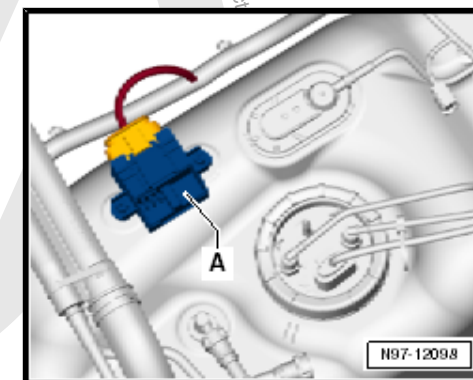
B - 16-pin connector -T16i-

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## 1.11 Fuel pump control unit -J538-

### 1.11.1 Location

On tank -arrow A-



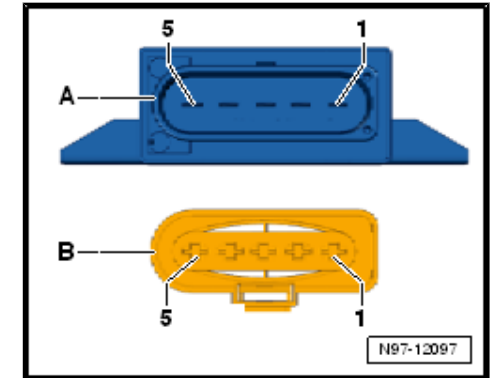
### 1.11.2 Connector assignment

A - Fuel pump control unit -J538-

### 1.11.3 Pin connector

B - 5-pin connector -T5h-

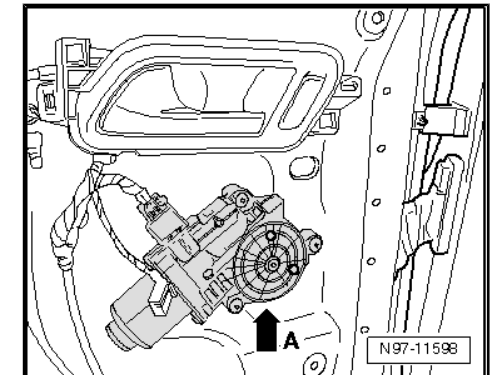
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## 1.12 Rear left door control unit -J388-

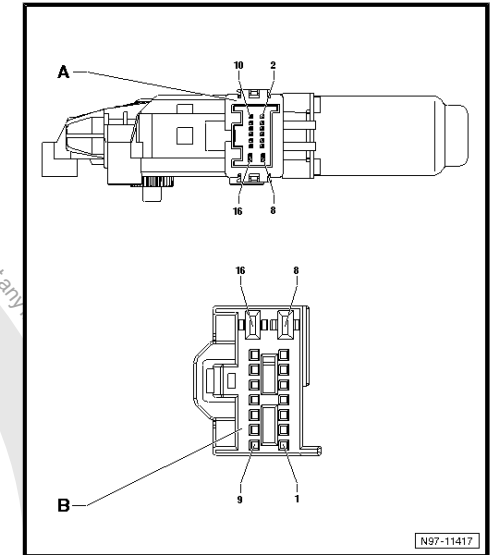
### 1.12.1 Location

in rear left door -arrow A-



### 1.12.2 Connector assignment

A - Rear left door control unit -J388-



### 1.12.3 Pin connector

B - 16-pin connector -T16h-

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## 1.13 Driver door control unit -J386-

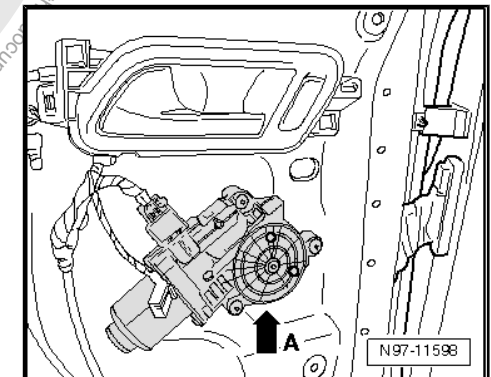
### 1.13.1 Location

In the front left door -arrow A-



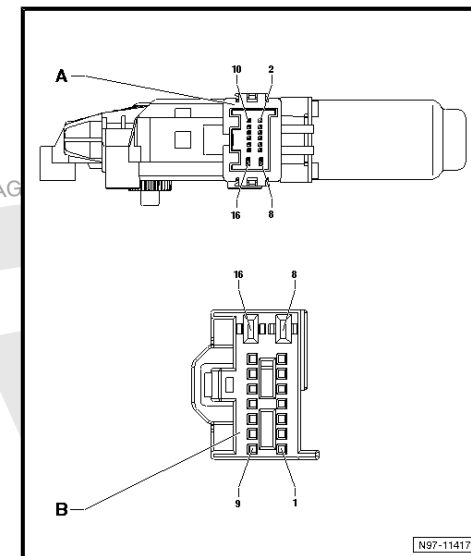
**Note**

*The illustration shows the rear left door. The front left door is similar.*



### 1.13.2 Connector assignment

A - Driver door control unit -J386-



### 1.13.3 Pin connector

B - 16-pin connector -T16e-

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

### 1.14.1 Location

on centre dash panel

### 1.14.2 Connector assignment

A - Control unit in dash panel insert -J285-

### 1.14.3 Pin connector

B - 32-pin connector -T32-

1 - Fuel gauge sender (full)

2 - Fuel gauge sender (empty)

3 - Vacant

4 - Vacant

5 - Vacant

6 - Vacant

7 - Immobilizer reader coil -D2- (1)

8 - Immobilizer reader coil -D2- (2)

9 - Speedometer, output

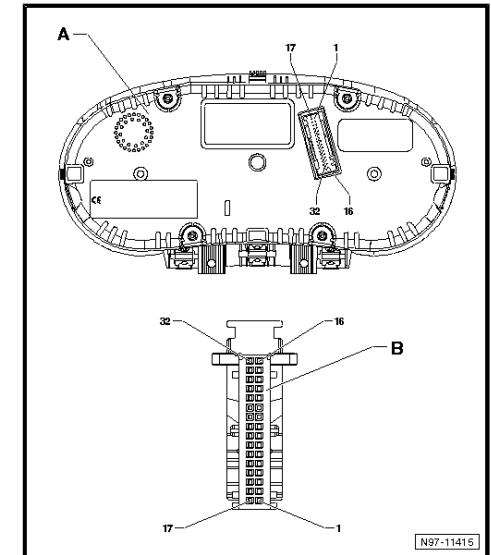
10 - Vacant

11 - Oil level and oil temperature sender -G266-

12 - Vacant

13 - Rear fog light warning lamp

14 - Main beam warning lamp



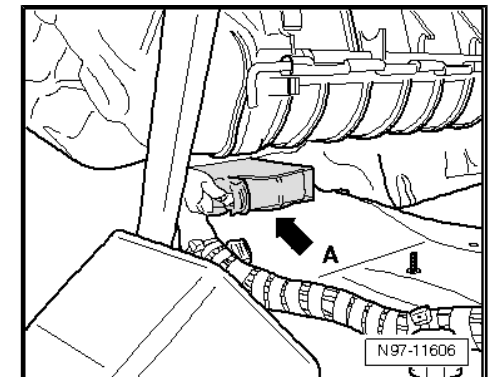


- 15 - Vacant
- 16 - Terminal 31
- 17 - Vacant
- 18 - Coolant temperature display sender -G2-
- 19 - Ambient temperature sensor -G17-
- 20 - Terminal 31, sensor earth
- 21 - Multifunction switch -F125- (MFI+)
- 22 - Multifunction switch -F125- (MFI-)
- 23 - Multifunction switch -F125- (MFI-R)
- 24 - Vacant
- 25 - Handbrake warning switch -F321-
- 26 - Brake fluid level warning contact -F34-
- 27 - Oil pressure switch -F1-
- 28 - Diagnostic interface for combi CAN data bus, high
- 29 - Diagnostic interface for combi CAN data bus, low
- 30 - Vacant
- 31 - Voltage supply, terminal 15
- 32 - Voltage supply, terminal 30
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## **1.15 Airbag control unit -J234-**

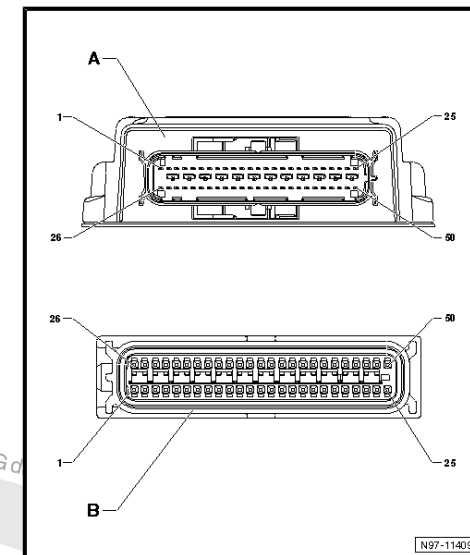
### **1.15.1 Location**

Under centre dash panel -arrow A-



### 1.15.2 Connector assignment

A - Airbag control unit -J234-



### 1.15.3 Pin connector

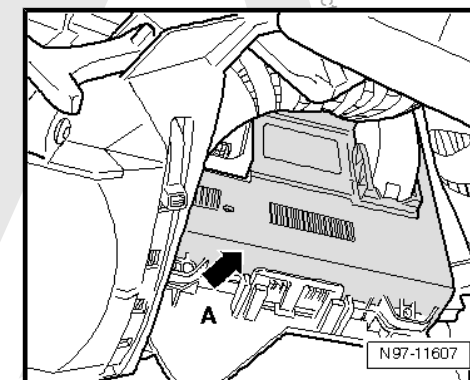
B - 50-pin connector -T50-

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## 1.16 Onboard supply control unit -J519-

### 1.16.1 Location

Left under dash panel -arrow A-



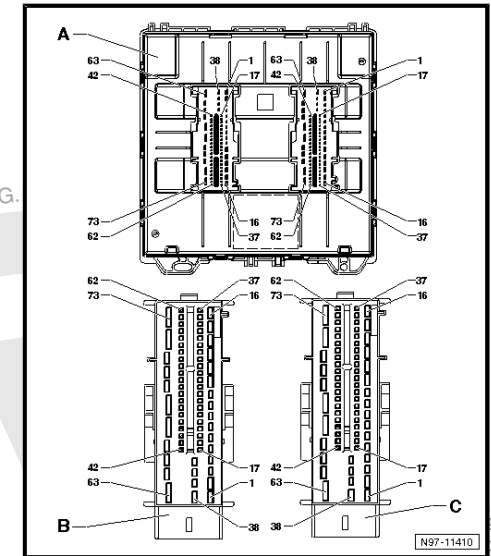
### 1.16.2 Connector assignment

A - Onboard supply control unit -J519-

### 1.16.3 Pin connector

B - 73-pin connector -T73a-

Pin	Assignment/Component	Input/Output	Terminal
1	- Vacant		
2	- Vacant		
3	- Vacant		
4	- Front interior light -W1-	Output	
5	- Vacant		
6	- Vacant		
7	- Vacant		
8	- Vacant		
9	- Vacant		
10	- Vacant		
11	- Fuel tank filler flap central locking actuator -F219-B214 Connection 1 (central locking), in interior wiring harness	Output	
12	- Fuel tank filler flap central locking actuator -F219-B466 Connection 2, in main wiring harness	Output	



Pin	Assignment/Component	Input/Output	Terminal
13	- Driver door lock unit -VX21- Front passenger door lock unit -VX22- Lock unit, rear left door -VX23- Lock unit, rear right door -VX24- B467 Connection 3, in main wiring harness	Output	
14	- 44 Earth point, lower part of left A-pillar 377 Earth connection 12, in main wiring harness	Input	31
15	- Front passenger door lock unit -VX22- Lock unit, rear left door -VX23- Lock unit, rear right door -VX24- B215 Connection 2 (central locking), in interior wiring harness	Output	
16	- Fuse 66 on fuse holder C -SC66- Ignition/starter switch -D- A104 Positive connection 2 (15), in dash panel wiring harness	Input	30ZV
17	- Lock unit, rear left door -VX23-	Input	
18	- Lock unit, rear right door -VX24-	Input	
19	- Driver door lock unit -VX21-	Input	
20	- Front passenger door lock unit -VX22-	Input	
21	- Front passenger door lock unit -VX22-	Input	
22	- Driver door lock unit -VX21-	Input	
23	- Vacant		
24	- Driver door lock unit -VX21-	Input	
25	- Central locking button -E600-	Input	
26	- Lock unit, rear right door -VX24-	Input	
27	- Bonnet contact switch -F266-	Input	
28	- Hazard warning lights button -E229-	Input	
29	- Steering column electronics control unit -J527- B572 Connection 39, in main wiring harness	Input	
30	- Vacant		
31	- Vacant		
32	- Steering column electronics control unit -J527-	Input	
33	- Steering column electronics control unit -J527-	Input	
34	- Lock unit, rear left door -VX23-	Input	
35	- Vacant		



Pin	Assignment/Component	Input/Output	Terminal
36	- Seat heating control unit -J882-	Output	
37	- Vacant		
38	- Driver side heated exterior mirror -Z4- Front passenger side heated exterior mirror -Z5-	Output	
39	- Vacant		
40	- Right tail light bulb -M2- Right side light bulb -M3-	Output	58r
41	- Left side light bulb -M1- Left tail light bulb -M4-	Output	58l
42	- Radio -R- B489 Connection 25, in main wiring harness	Input	
43	- Brake light switch -F- ABS control unit -J104- Engine control unit -J623- B482 Connection 18, in main wiring harness	Input	
44	- Ignition/starter switch -D- A104 Positive connection 2 (15), in dash panel wiring harness	Input	
45	- Fuse 17 on fuse holder C -SC17-	Input	
46	- Vacant		
47	- Vacant		
48	- Vacant		
49	- Vacant		
50	- Vacant		
51	- Vacant		
52	- Vacant		
53	- Vacant		
54	- Vacant		
55	- Vacant		
56	- Hazard warning lights button -E229-	Output	
57	- Vacant		
58	- Central locking deadlock function warning lamp -SAFE- -K133-	Output	
59	- Vacant		
60	- Heated rear window button -E230-	Output	

Pin	Assignment/Component	Input/Output	Terminal
61	- Vacant		
62	- Vacant		
63	- Vacant		
64	- Fuse 19 on fuse holder C -SC19- ( Driver side heated exterior mirror -Z4- and front passenger side heated exterior mirror -Z5- )	Input	
65	- Front interior light -W1-	Output	30G
66	- Fuse 21 on fuse holder C -SC21- ( front interior light -W1- )	Input	30
67	- Vacant		
68	- Fuse 43 on fuse holder C -SC43- ( Windscreen wiper motor -V- )	Input	30
69	- Windscreen wiper motor -V-	Output	
70	- 371 Earth connection 6, in main wiring harness 32 Earth point, on left behind dash panel insert 42 Earth point, next to steering column	Input	31
71	- Windscreen wiper motor -V-	Output	
72	- Horn or dual tone horn -H1-	Output	
73	- Fuse 47 on fuse holder C -SC47- ( Treble tone horn -H2- and bass tone horn -H7- )	Input	30

C - 73-pin connector -T73b-

Pin	Assignment/Component	Input/Output	Terminal
1	- Vacant		
2	- Vacant		
3	- Vacant		
4	- Vacant		
5	- Vacant		
6	- Vacant		
7	- Vacant		
8	- Vacant		
9	- Vacant		
10	- Vacant		
11	- Vacant		

Pin	Assignment/Component	Input/Output	Terminal
12	- Vacant		
13	- Fuse 4 on fuse holder C -SC4- ( Left brake light bulb -M9- , right brake light bulb -M10- and high level brake light bulb -M25- )	Input	30
14	- Front left turn signal bulb -M5- Rear left turn signal bulb -M6- Left side mounted turn signal bulb -M18- B469 Connection 5, in main wiring harness	Output	L
15	- Front right turn signal bulb -M7- Rear right turn signal bulb -M8- Right side mounted turn signal bulb -M19- B470 Connection 6, in main wiring harness	Output	R
16	- Left brake light bulb -M9- Right brake light bulb -M10- High level brake light bulb -M25- B335 Connection 1 (54), in main wiring harness	Output	54
17	- Driver door control unit -J386- Front passenger door control unit -J387- Rear left door control unit -J388- Rear right door control unit -J389- B528 Connection 1 (LIN bus), in main wiring harness		LIN
18	B390 Connection 1 (drive train CAN bus, low), in main wiring harness		CAN-L
19	- B383 Connection 1 (drive train CAN bus, high), in main wiring harness		CAN-H
20	- A146 Connection (convenience CAN bus, high), in dash panel wiring harness		CAN-H
21	- A147 Connection (convenience CAN bus, low), in dash panel wiring harness		CAN-L
22	- 16-pin connector -T16/14- (diagnosis connection)		CAN-L
23	- 16-pin connector -T16/6- (diagnosis connection)		CAN-H
24	- Vacant		
25	- Vacant		
26	- Vacant		
27	- Windscreen wiper switch -E- (speed 1) Steering column electronics control unit -J527-	Input	
28	- Vacant		
29	- Vacant		



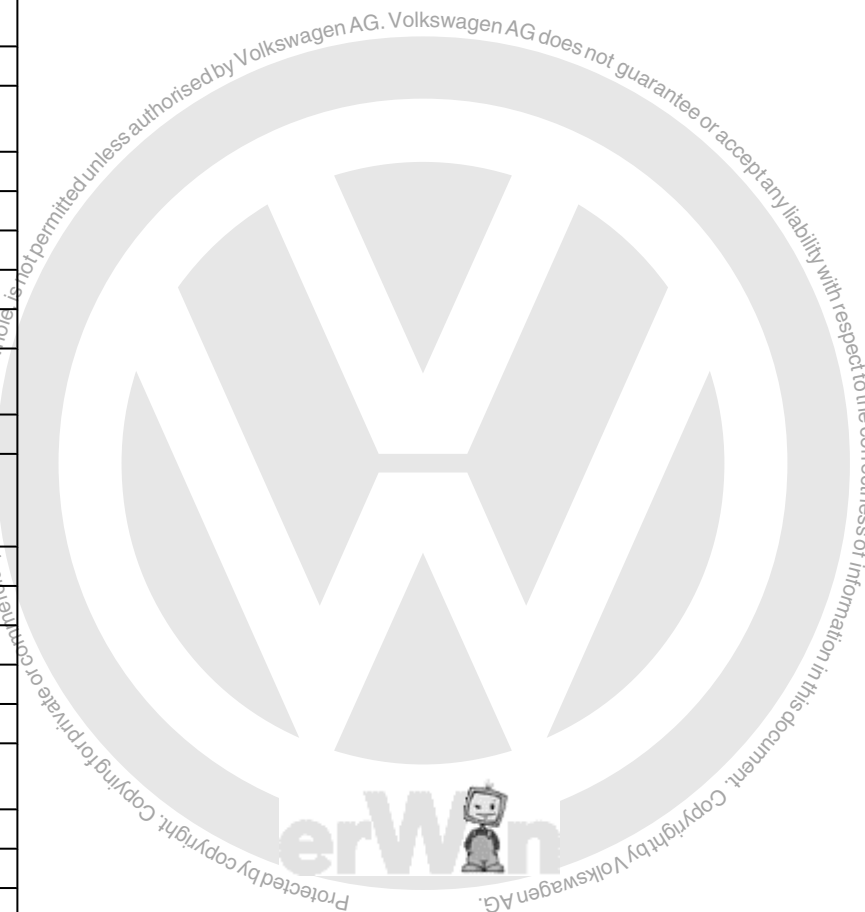
Pin	Assignment/Component	Input/Output	Terminal
30	- Vacant		
31	- Heated rear window button -E230-	Input	
32	- Windscreen wiper motor -V-	Input	
33	- Vacant		
34	- Fuse 28 on fuse holder C -SC28- Light switch -E1- Switches and instruments illumination regulator -E20- B472 Connection 8, in main wiring harness	Input	58d
35	- Vacant		
36	- Alarm horn -H12-		LIN
37	- Vacant		
38	- 372 Earth connection 7, in main wiring harness 44 Earth point, lower part of left A-pillar	Input	31
39	- Fuse 20 on fuse holder C -SC20- (Internal supply)	Input	30
40	- Vacant		
41	- Vacant		
42	- Vacant		
43	- Vacant		
44	- Cruise control system switch -E45-	Input	CCS - Set
45	- B441 Connection (CCS), in main wiring harness	Input	
46	- Cruise control system switch -E45-	Input	CCS - Res
47	- Cruise control system switch -E45- Airbag coil connector and return spring with slip ring -F138-	Input	CCS - Cance I
48	- Reversing light switch -F4- Right reversing light bulb -M17- W3 Connection, in rear wiring harness	Input	
49	- Alternator -C- Voltage regulator -C1- B569 Connection 36, in main wiring harness	Input	61
50	- Ignition/starter switch -D- Starter motor relay -J53- A57 Positive connection 3 (30), in dash panel wiring harness	Input	50





Pin	Assignment/Component	Input/Output	Terminal
51	- Ignition/starter switch -D- Current supply relay -J16- Voltage supply relay 2 -J710- B490 Connection 26, in main wiring harness	Input	75X
52	- Vacant		
53	- Steering column electronics control unit -J527- Windscreen wiper switch -E- (speed 2)	Input	S2
54	- Vacant		
55	- Vacant		
56	- Vacant		
57	- Vacant		
58	- Mirror adjustment switch -E43-	Input	
59	- Fuse 4 on fuse holder B -SB4- (Reference battery voltage)	Input	30
60	- Heated rear window button -E230-	Input	31
61	- Washer pump -V5- Steering column electronics control unit -J527- B480 Connection 16, in main wiring harness	Input	
62	- Intermittent wiper regulator -E38-	Input	INT
63	- Heated rear window -Z1-	Output	
64	- Vacant		
65	- Vacant		
66	- Vacant		
67	- Fuse 44 on fuse holder C -SC44- ( Heated rear window -Z1- )	Input	30
68	- Vacant		
69	- Vacant		
70	- Vacant		
71	- Vacant		
72	- Vacant		
73	- Vacant		

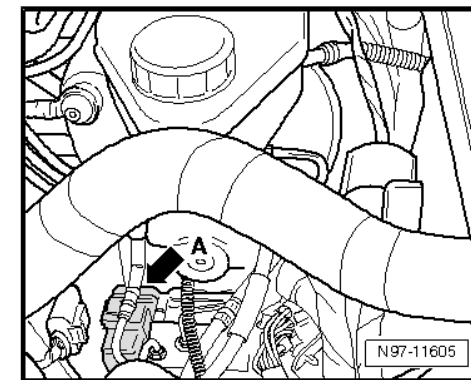
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## 1.17 ABS control unit -J104-

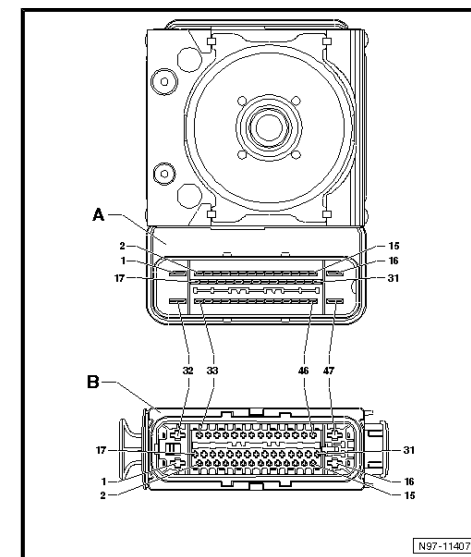
### 1.17.1 Location

In front left engine compartment -arrow A-



### 1.17.2 Connector assignment

A - ABS control unit -J104-



### 1.17.3 Pin connector

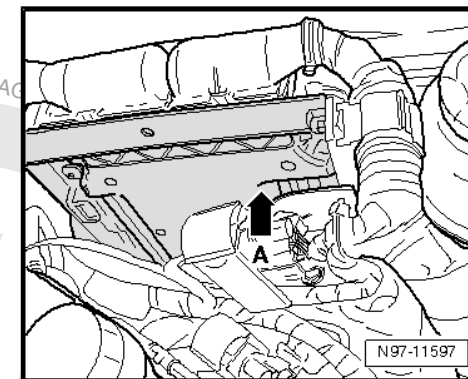
B - 47-pin connector -T47-

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## 1.18 Engine control unit -J623-

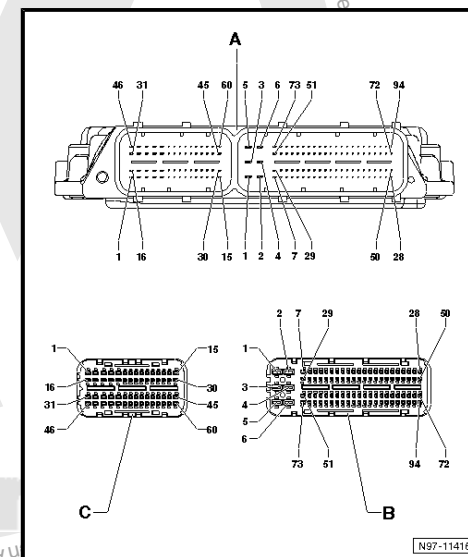
### 1.18.1 Location

In front left engine compartment -arrow A-



### 1.18.2 Connector assignment

A - Engine control unit -J623-



### 1.18.3 Pin connector

B - 94-pin connector -T94- or -T94a-

C - 60-pin connector -T60-

– Back to overview [⇒ page 1](#)

## 1 Overview of coupling stations

### 1 - Coupling station in front left engine compartment on radiator cowl

- ☐ Location ⇒ [page 4](#)
- ☐ 4-pin connector -T4-

### 2 - Coupling station on centre lock carrier

- ☐ Location ⇒ [page 4](#)
- ☐ 3-pin connector -T3y-

### 3 - Coupling station in engine compartment, front right, near air filter box (diesel engine)

- ☐ Location ⇒ [page 5](#)
- ☐ 2-pin connector -T2q-
- ☐ 2-pin connector -T2r-
- ☐ 2-pin connector -T2s-
- ☐ 6-pin connector -T6t-

### 4 - Coupling station in engine compartment, front right, near air filter box (petrol engine)

- ☐ Location ⇒ [page 5](#)
- ☐ 6-pin connector -T6q-

### 5 - Coupling station right in engine compartment, behind air filter box

- ☐ Location ⇒ [page 6](#)
- ☐ 4-pin connector -T4f-

### 6 - Coupling station right in engine compartment, behind air filter box

- ☐ Location ⇒ [page 6](#)
- ☐ 8-pin connector -T8f-

### 7 - Coupling station in right of A-pillar

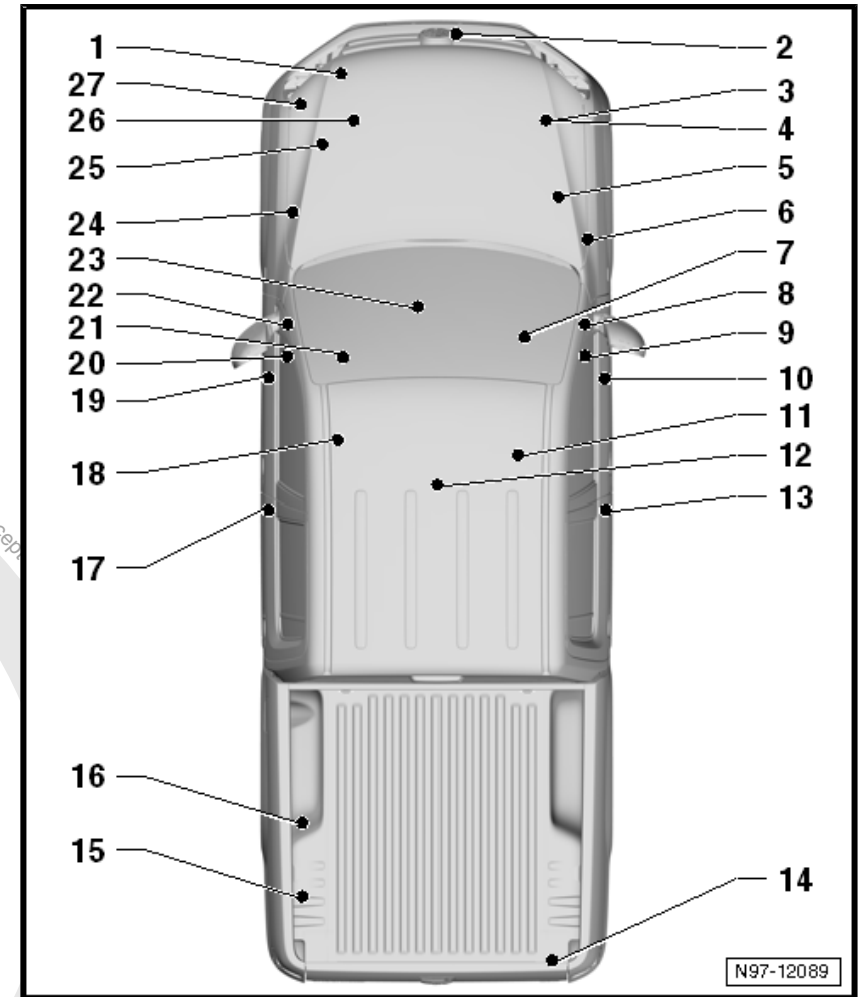
- ☐ Location ⇒ [page 6](#)
- ☐ 28-pin connector -T28b-

### 8 - Coupling station on blower box

- ☐ Location ⇒ [page 7](#)
- ☐ 21-pin connector -T21-

### 9 - Coupling station in A-pillar, right door

- ☐ Location ⇒ [page 7](#)
- ☐ 2-pin connector -T2o-



**10 - Coupling station in front passenger door**

- ☐ Location ⇒ [page 7](#)
- ☐ 6-pin connector -T6aa-

**11 - coupling station front passenger seat**

- ☐ Location ⇒ [page 8](#)
- ☐ 2-pin connector -T2bl-
- ☐ 3-pin connector -T3l-
- ☐ 6-pin connector -T6w-

**12 - Coupling station near centre underbody**

- ☐ Location ⇒ [page 8](#)
- ☐ 42-pin connector -T42-

**13 - Coupling station, rear right B-pillar**

- ☐ Location ⇒ [page 8](#)
- ☐ 28-pin connector -T28c-

**14 - Coupling station on rear of right longitudinal member**

- ☐ Location ⇒ [page 9](#)
- ☐ 6-pin connector -T6bi-

**15 - Coupling station on rear of left longitudinal member**

- ☐ Location ⇒ [page 9](#)
- ☐ 14-pin connector -T14-

**16 - Coupling station on rear left wheel housing**

- ☐ Location ⇒ [page 9](#)
- ☐ 2-pin connector -T2am-
- ☐ 2-pin connector -T2al-

**17 - Coupling station, rear left B-pillar**

- ☐ Location ⇒ [page 10](#)
- ☐ 28-pin connector -T28-

**18 - coupling station driver seat**

- ☐ Location ⇒ [page 10](#)
- ☐ 2-pin connector -T2bk-
- ☐ 3-pin connector -T3k-
- ☐ 6-pin connector -T6r-  
and -T6v-



**19 - Coupling station in driver door**

- ☐ Location ⇒ [page 10](#)
- ☐ 2-pin connector -T2au-
- ☐ 6-pin connector -T6ae-

**20 - Coupling station in left of A-pillar**

- ☐ Location ⇒ [page 11](#)
- ☐ 2-pin connector -T2m-

**21 - Coupling station blocking diode**

- ☐ Location ⇒ [page 11](#)
- ☐ Single connector -T1d- and -T1e-

**22 - Coupling station in left of A-pillar**

- ☐ Location ⇒ [page 11](#)
- ☐ 28-pin connector -T28a-

**23 - Coupling station in centre console**

- ☐ Location ⇒ [page 12](#)
- ☐ 3-pin connector -T3h-

**24 - Coupling station in engine compartment, front left**

- ☐ Location ⇒ [page 12](#)
- ☐ 3-pin connector -T3e-

**25 - Coupling station in engine compartment, front left, near brake master cylinder**

- ☐ Location ⇒ [page 12](#)
- ☐ 2-pin connector -T18- and -T18a-

**26 - Coupling station in left engine compartment, centre**

- ☐ Location ⇒ [page 13](#)
- ☐ 3-pin connector -T3r-

**27 - Front left coupling station, before headlight**

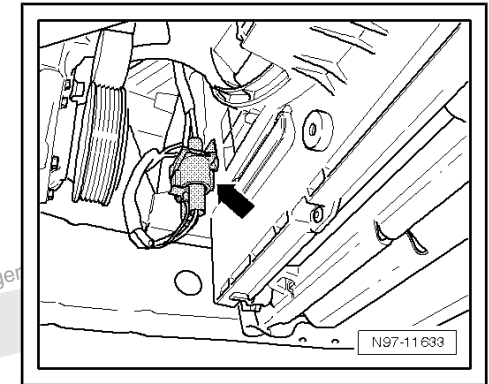
- ☐ Location ⇒ [page 13](#)
- ☐ 6-pin connector -T6bh-



### 1.1 Coupling station in front left engine compartment on radiator cowl

Pfeil - 4-pin connector -T4- , black, in front left engine compartment on radiator cowl

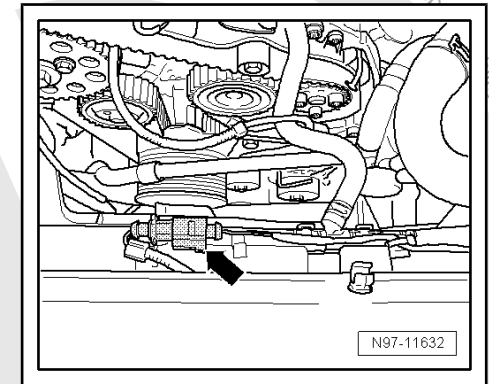
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### 1.2 Coupling station on bumper centre front

Pfeil - 3-pin connector -T3y- , black, on upper centre lock carrier

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### 1.3 Coupling station in engine compartment, front right, near air filter box (diesel engine)

Pfeil A - 2-pin connector -T2q- , black, in engine compartment, front right, near air filter box

Pfeil B - 2-pin connector -T2r- , orange, in engine compartment, front right, near air filter box <sup>1)</sup>

Pfeil C - 2-pin connector -T2s- , brown, in engine compartment, front right, near air filter box <sup>1)</sup>

Pfeil D - 6-pin connector -T6t- , black, in engine compartment, front right, near air filter box <sup>1)</sup>



#### Note

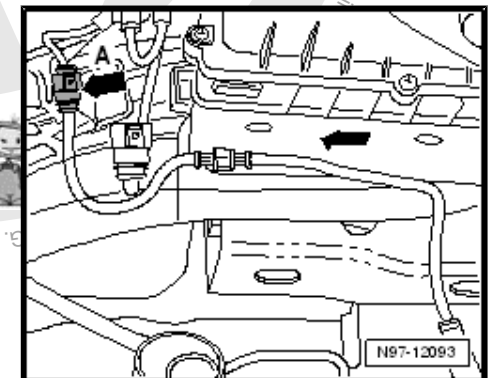
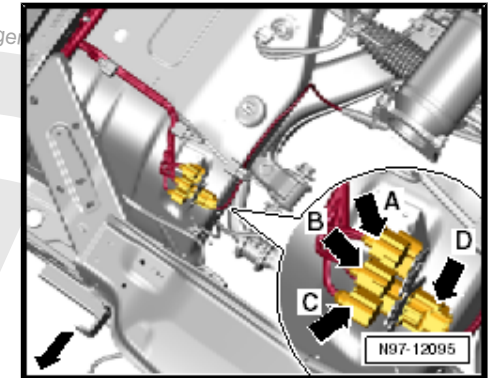
<sup>1)</sup> - exhaust concept Euro 5 only

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### 1.4 Coupling station in engine compartment, front right, near air filter box (petrol engine)

Pfeil D - 6-pin connector -T6q- , black, in engine compartment, front right, near air filter box

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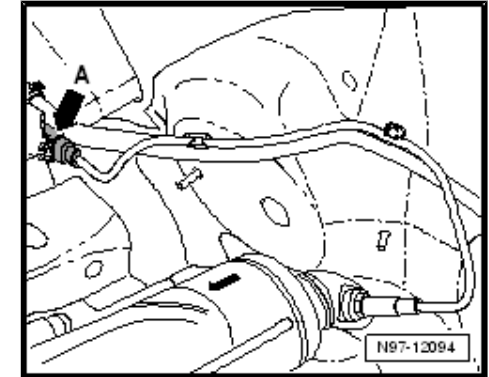




### 1.5 Coupling station right in engine compartment, behind air filter box

Pfeil - 4-pin connector -T4f- , black, coupling station right in engine compartment, behind air filter box

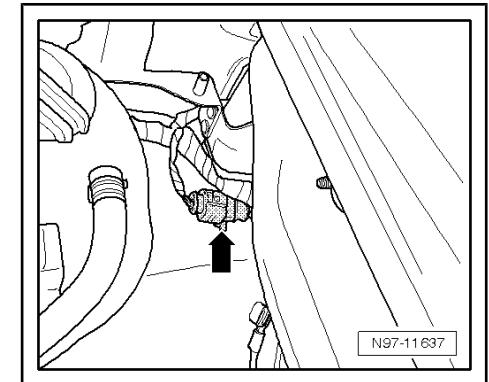
– Back to overview ⇒ [page 1](#)



### 1.6 Coupling station right in engine compartment, behind air filter box

Pfeil - 8-pin connector -T8f- , black, in front right engine compartment on the wheel arch

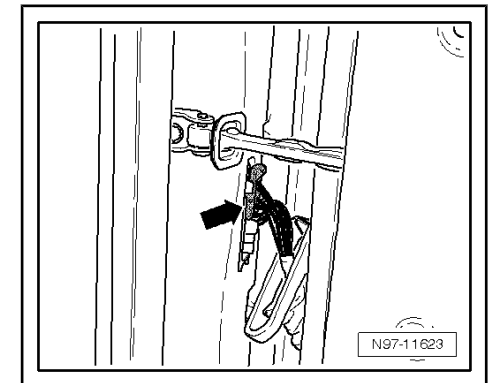
– Back to overview ⇒ [page 1](#)



### 1.7 Coupling station in the A-pillar front right door

Pfeil - 28-pin connector -T28b- , red, in right of A-pillar

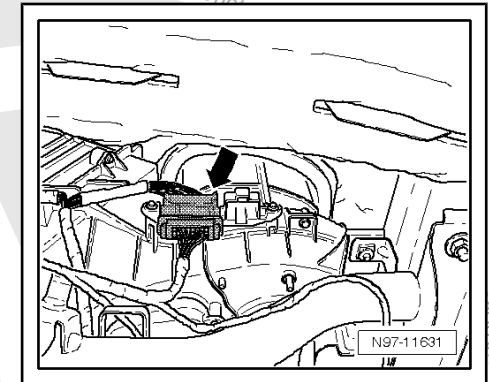
– Back to overview ⇒ [page 1](#)



## 1.8 Coupling station on blower box

Pfeil - 21-pin connector -T21- , black, on blower box below the dash panel on right

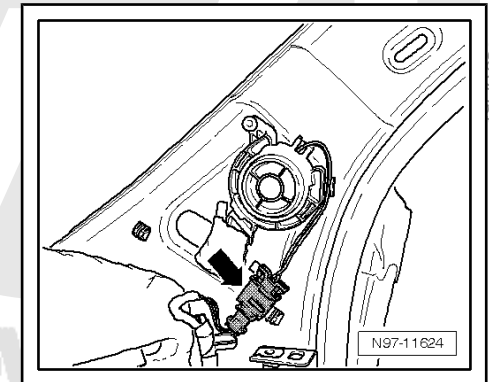
– Back to overview [⇒ page 1](#)



## 1.9 Coupling station in right of A-pillar

Pfeil - 2-pin connector -T2o- , black, in right of A-pillar

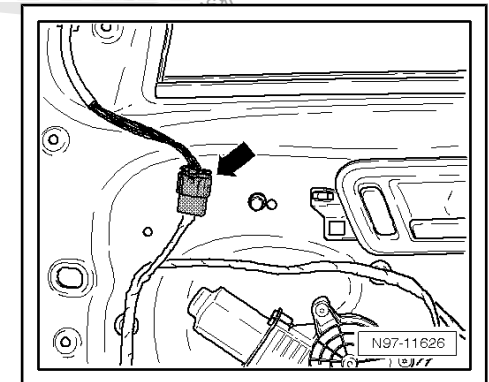
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## 1.10 Coupling station in front passenger door

Pfeil - 6-pin connector -T6aa- , blue, in front passenger door

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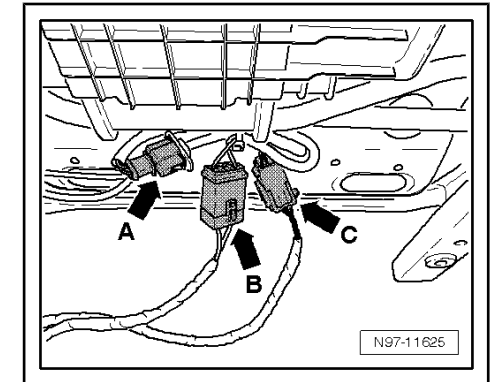
### 1.11 coupling station front passenger seat

Pfeil A - 2-pin connector -T2bl- , black, under front passenger seat on front right

Pfeil B - 6-pin connector -T6w- , black, under front passenger seat on front right

Pfeil C - 3-pin connector -T3l- , yellow, under front passenger seat on front right

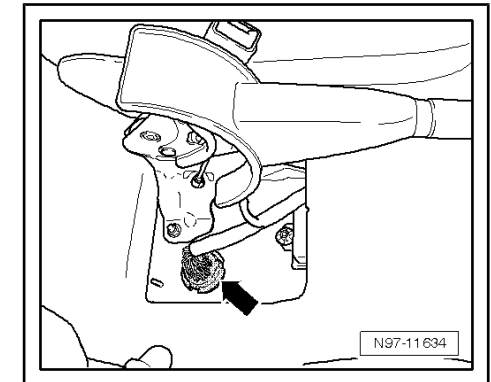
– Back to overview ⇒ [page 1](#)



### 1.12 Coupling station near centre underbody

Pfeil - 42-pin connector -T42- , black, under the centre console, near handbrake lever

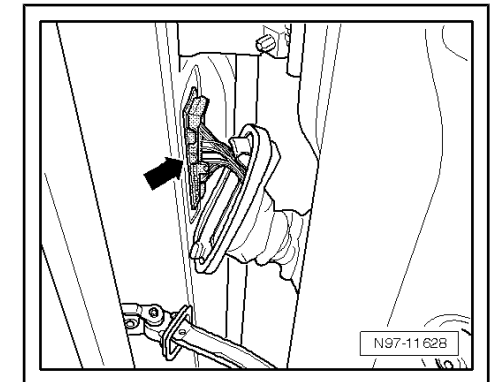
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### 1.13 Coupling station, rear right door B-pillar

Pfeil - 28-pin connector -T28c- , red, in right door of B-pillar

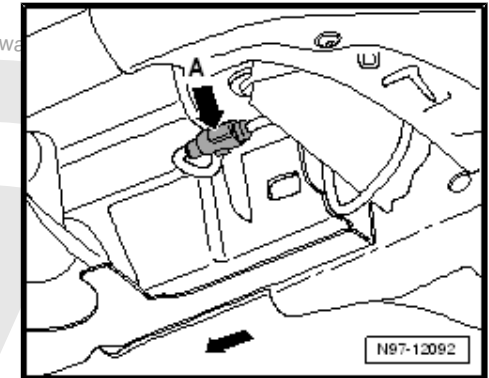
– Back to overview ⇒ [page 1](#)



### 1.14 Coupling station on rear of right longitudinal member

Pfeil A - 6-pin connector -T6bi- , black, on rear of right longitudinal member

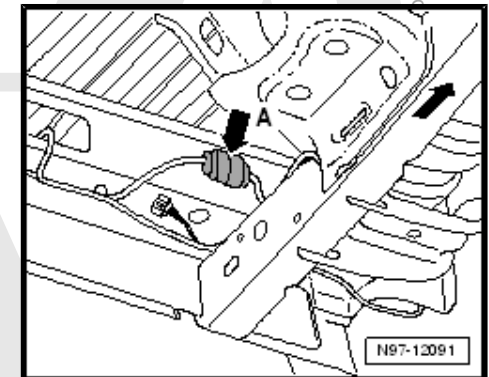
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### 1.15 Coupling station on rear of left longitudinal member

Pfeil A - 14-pin connector -T14- , black, rear of left longitudinal member on fuel tank

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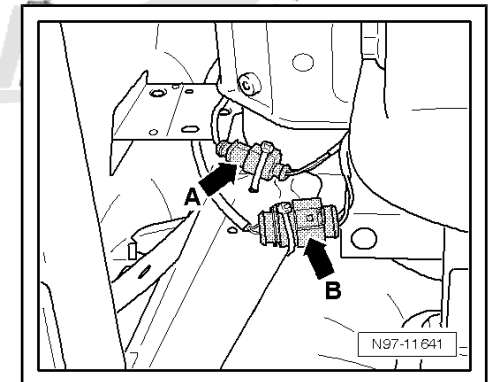


### 1.16 Coupling station on rear left wheel housing

Pfeil A - 2-pin connector -T2am- , black, behind rear left wheel housing

Pfeil B - 2-pin connector -T2al- , black, on rear left wheel housing

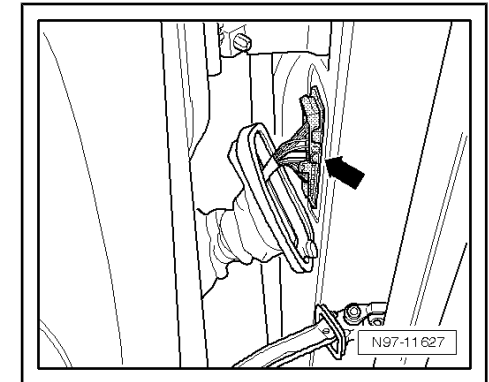
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### 1.17 Coupling station, rear door left B-pillar

Pfeil - 28-pin connector -T28- , red, in rear left door of B-pillar

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### 1.18 coupling station driver seat

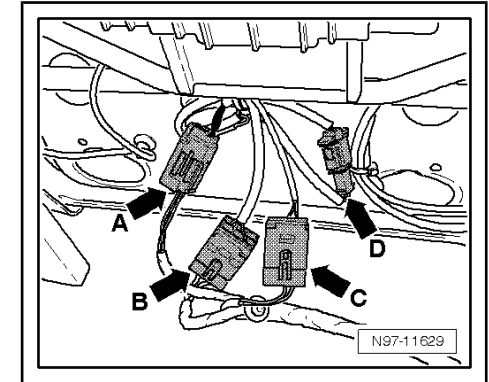
Pfeil A - 3-pin connector -T3k- , yellow, under driver seat on front left

Pfeil B - 2-pin connector -T2bk- , black, under driver seat on front left

Pfeil C - 6-pin connector -T6r- , black, under driver seat on front left

Pfeil D - 6-pin connector -T6v- , black, under driver seat on front left

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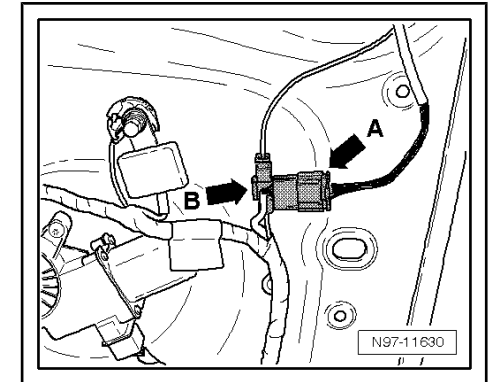


### 1.19 Coupling station in driver door

Pfeil A - 6-pin connector -T6ae- , blue, in driver door

Pfeil B - Single connector -T2au- , white, in driver door

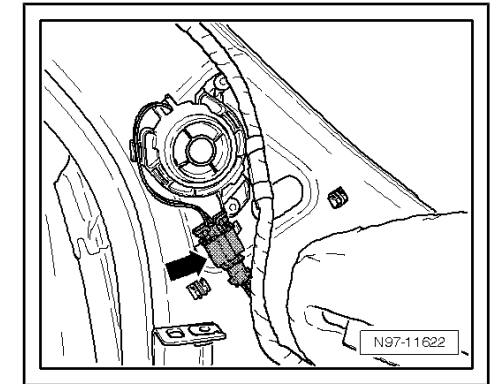
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## 1.20 Coupling station in left of A-pillar

Pfeil - 2-pin connector -T2m- , black, in left of A-pillar

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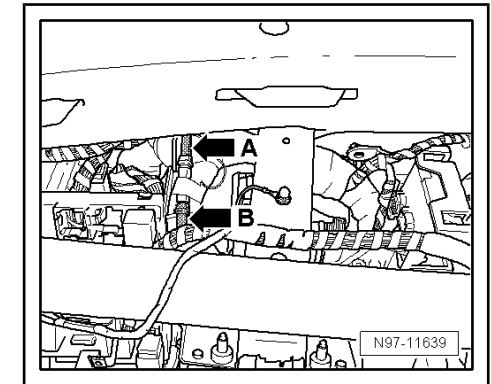


## 1.21 Coupling station blocking diode

Pfeil A - Single connector -T1e- , red, front left under dash panel

Pfeil B - Single connector -T1d- , red, front left under dash panel

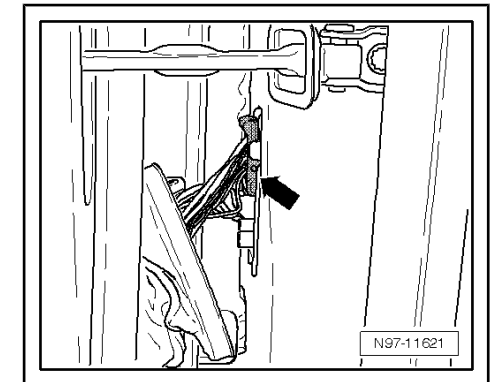
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## 1.22 Coupling station in the A-pillar front left door

Pfeil - 28-pin connector -T28a- , black, in left door of A-pillar

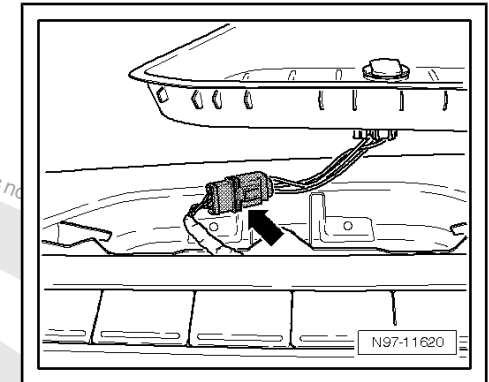
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### 1.23 Coupling station in centre console

Pfeil - 3-pin connector -T3h- , white, in centre console

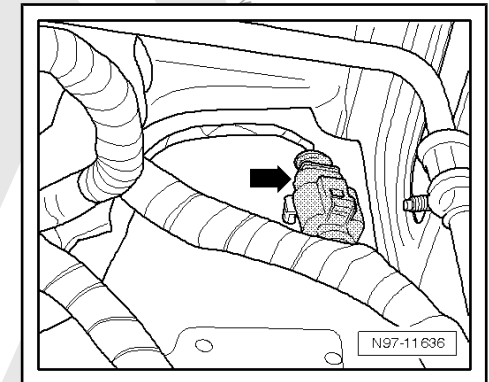
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### 1.24 Coupling stations in rear left of engine compartment

Pfeil - 3-pin connector -T3e- , black, in front left engine compartment behind the battery

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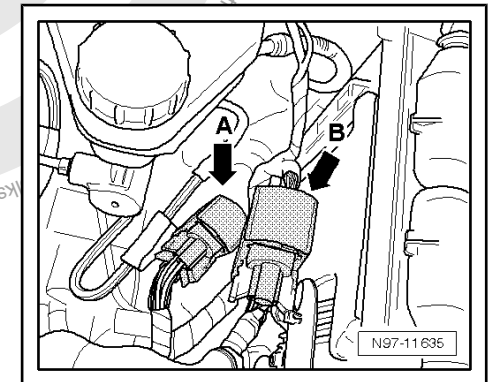


### 1.25 Coupling station in engine compartment, front left, near brake master cylinder

Pfeil A - 18-pin connector -T18a- , grey, in engine compartment, front left

Pfeil B - 18-pin connector -T18- , black, in engine compartment, front left

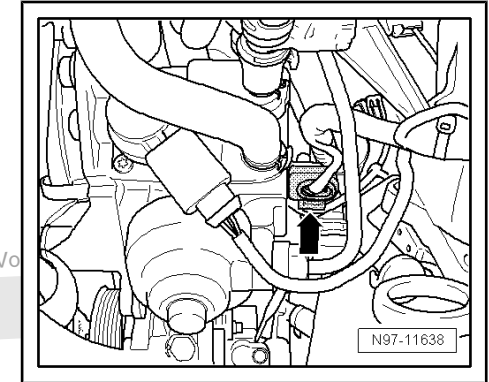
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## 1.26 Coupling station in left engine compartment, centre

Pfeil - 3-pin connector -T3r- , black, in front left engine compartment next to gauge stick

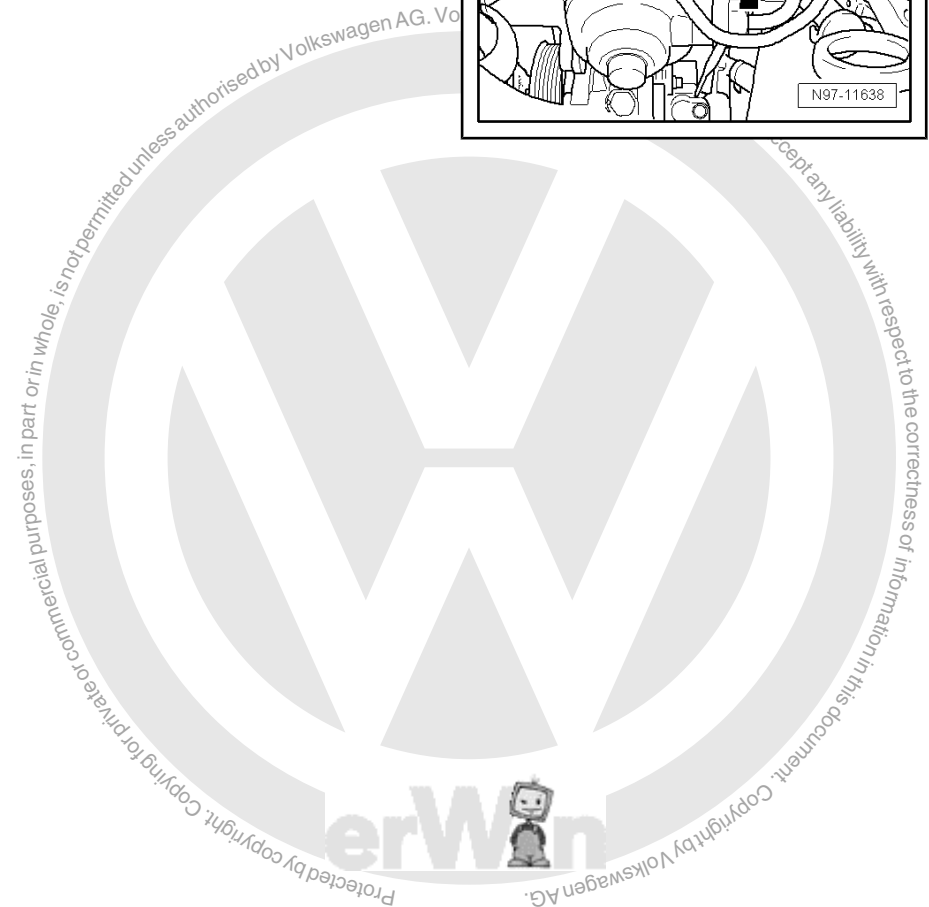
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## 1.27 Front left coupling station, before headlight

- - 6-pin connector -T6bh- , black, front left before headlight

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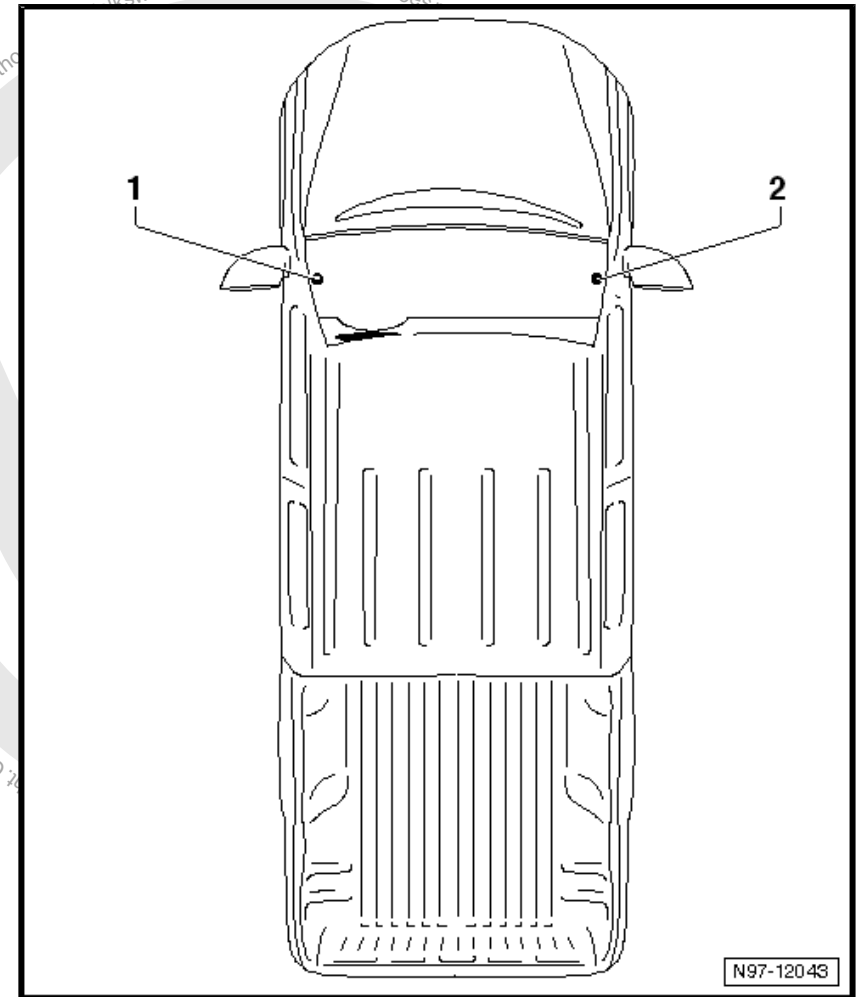
## 1 Overview of relay carrier

### 1 - Relay carrier on left under dash panel (left-hand drive)

- ☐ Relay positions [⇒ page 2](#)

### 2 - Relay carrier on right under dash panel (right-hand drive)

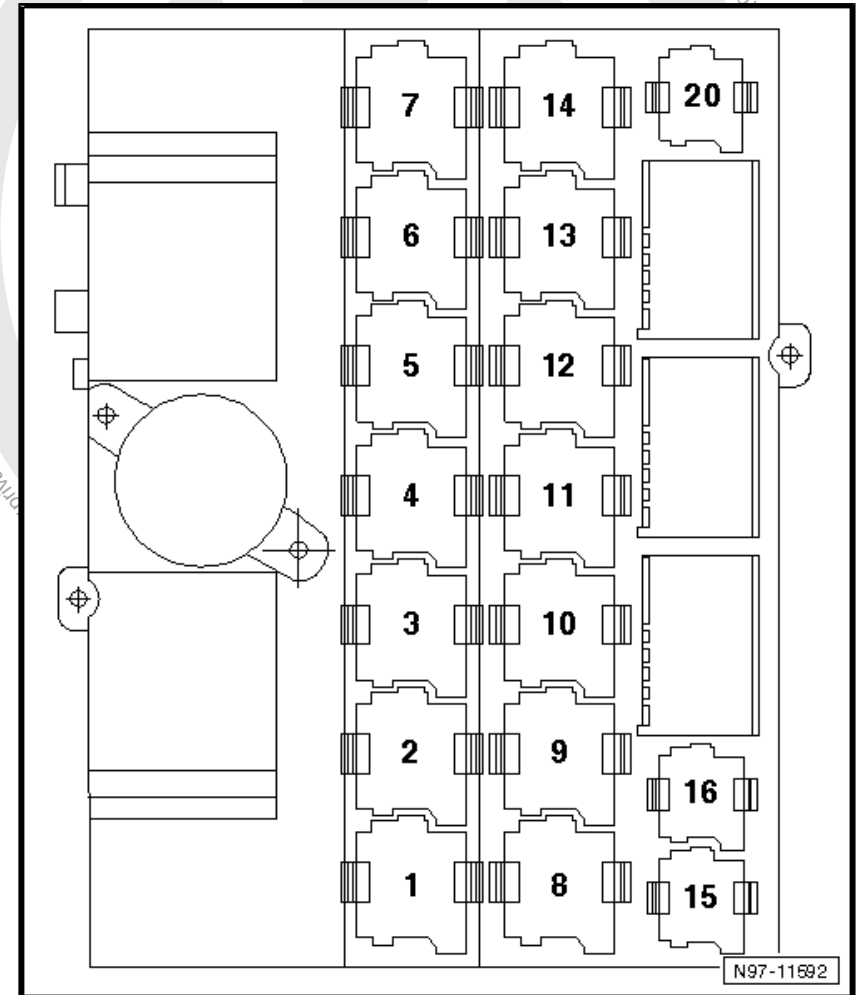
- ☐ Relay positions [⇒ page 3](#)



## 1.1 Relay carrier on left under dash panel (left-hand drive)

### 1.1.1 Relay positions

- 1 - Auxiliary coolant heater relay -J493- (404)
- 2 - Voltage supply relay 1 -J701- (53)
- 3 - Fuel pump relay -J17- (404)
- 3 - Terminal 30 voltage supply relay -J317- (404)
- 4 - Starter motor relay -J53- (53)
- 5 - Vacant
- 6 - Vacant
- 7 - Vacant
- 8 - Coolant pump relay -J235-
- 9 - Voltage supply relay 2 -J710- (53)
- 10 - Terminal 15 voltage supply relay -J329- (100)
- 11 - Vacant
- 12 - Vacant
- 13 - Vacant
- 14 - Vacant
- 15 - Current supply relay -J16- (100)
- 16 - Terminal 58b relief relay -J374- (449)
- 20 - Main relay -J271- (643)



## 1.2 Relay carrier on right under dash panel (right-hand drive)

### 1.2.1 Relay positions

- 1 - Auxiliary coolant heater relay -J493-
- 2 - Vacant
- 3 - Vacant
- 4 - Vacant
- 5 - Vacant
- 6 - Voltage supply relay 2 -J710- (53)
- 7 - Terminal 15 voltage supply relay -J329- (100)
- 8 - Coolant pump relay -J235-
- 9 - Vacant
- 10 - Vacant
- 11 - Vacant
- 12 - Voltage supply relay 1 -J701- (53)
- 13 - Starter motor relay -J53- (53)
- 14 - Fuel pump relay -J17- (404)
- 14 - Terminal 30 voltage supply relay -J317- (404)
- 15 - Current supply relay -J16- (100)
- 16 - Terminal 58b relief relay -J374- (449)
- 20 - Main relay -J271- (643)

