

## Radiator Fan

From July 2016



Radiator Fan Control Module, Engine/Motor Control Module

J293 Radiator Fan Control Module

J623 Engine/Motor Control Module

SB4 Fuse 4 (On Fuse Panel B)

SA5 Fuse 5 (On Fuse Panel A)

T4gl 4-Pin Connector, Black

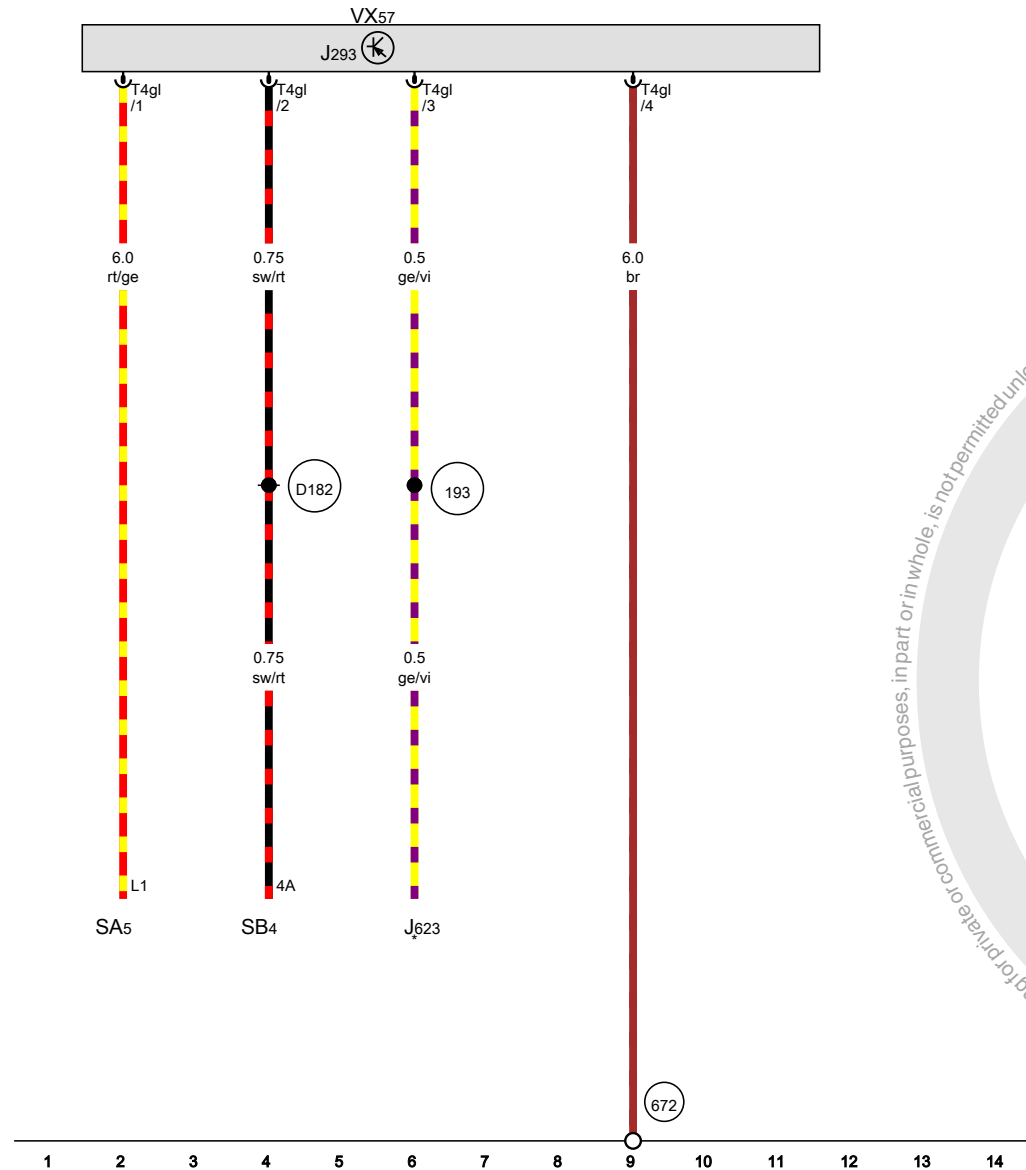
VX57 Radiator Fan

193 Ground Connection 1 (in Radiator Fan Wiring Harness)

672 Ground Connection 2 on Left Front Longitudinal Member

D182 Connection 3 (87A) (in Engine/Motor Compartment Wiring Harness)

\* Refer to Applicable Engine Wiring Diagram



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

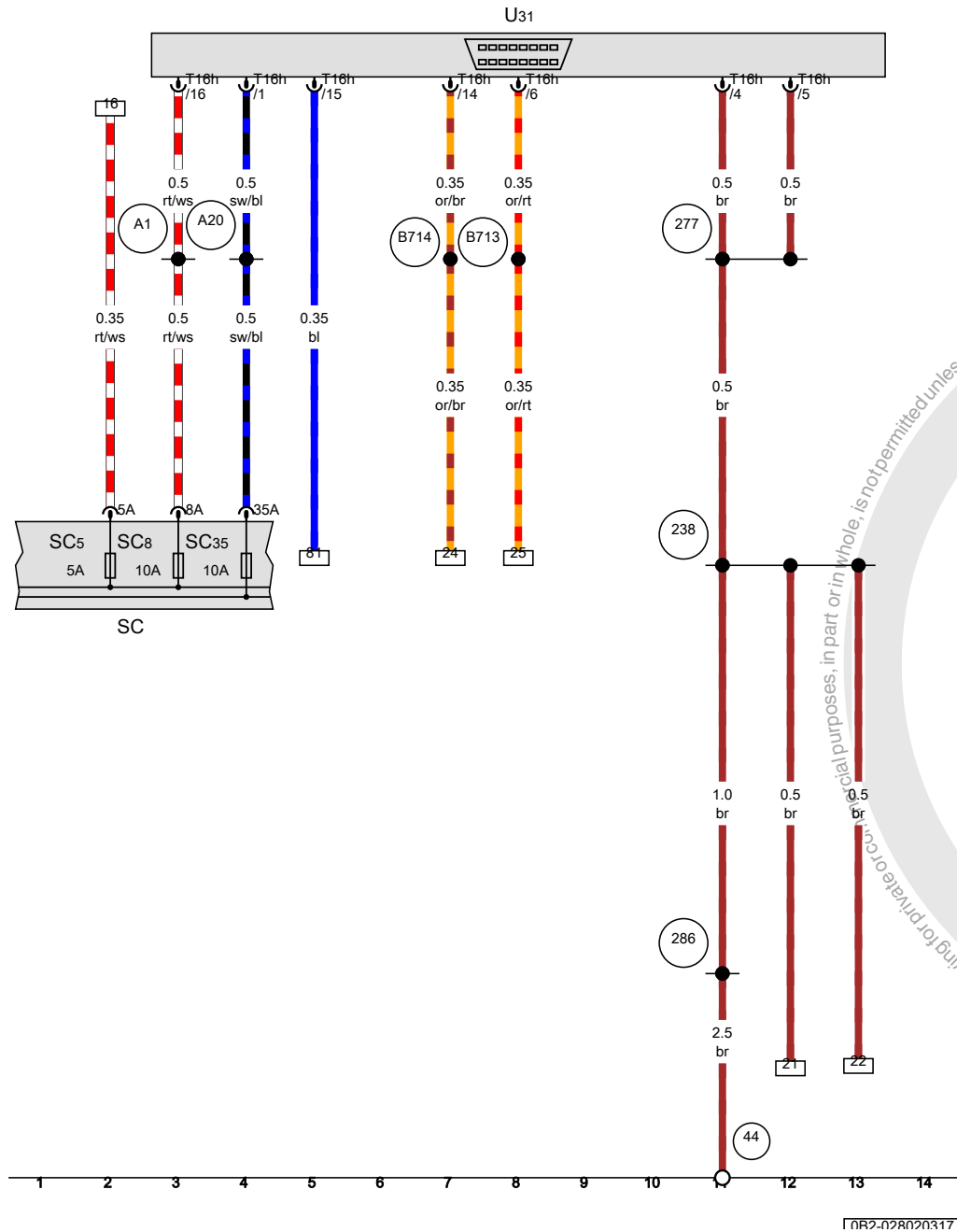
10R2-0230207161

## Network Data Bus

From July 2016



### Fuse Panel C, Diagnostic Connection



SC Fuse Panel C

SC5 Fuse 5 (On Fuse Panel C)

SC8 Fuse 8 (On Fuse Panel C)

SC35 Fuse 35 (On Fuse Panel C)

T16h 16-Pin Connector, Black

U31 Diagnostic Connection

44 Ground Connection on A-Pillar, Lower Left

238 Ground Connection 1 (in Interior Wiring Harness)

277 Ground Connection 3 (in Interior Wiring Harness)

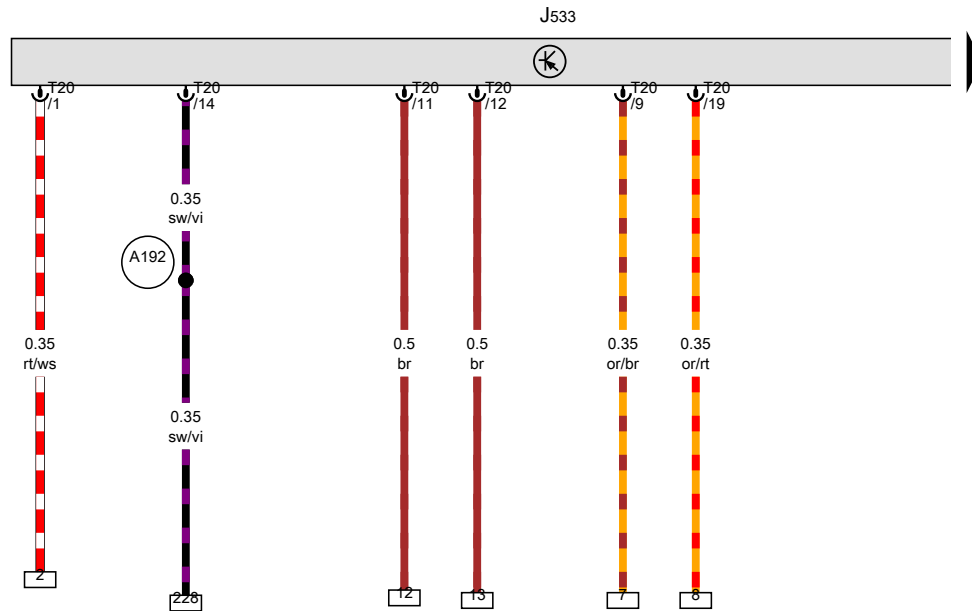
286 Ground Connection 8 (in Interior Wiring Harness)

A1 Positive Connection 30a (in Instrument Panel Wiring Harness)

A20 Positive Connection 15a (in Instrument Panel Wiring Harness)

B713 Diagnostic CAN Bus High Connection 1 (in Main Wiring Harness)

B714 Diagnostic CAN Bus Low Connection 1 (in Main Wiring Harness)



## Data Bus on Board Diagnostic Interface

J533 Data Bus on Board Diagnostic Interface

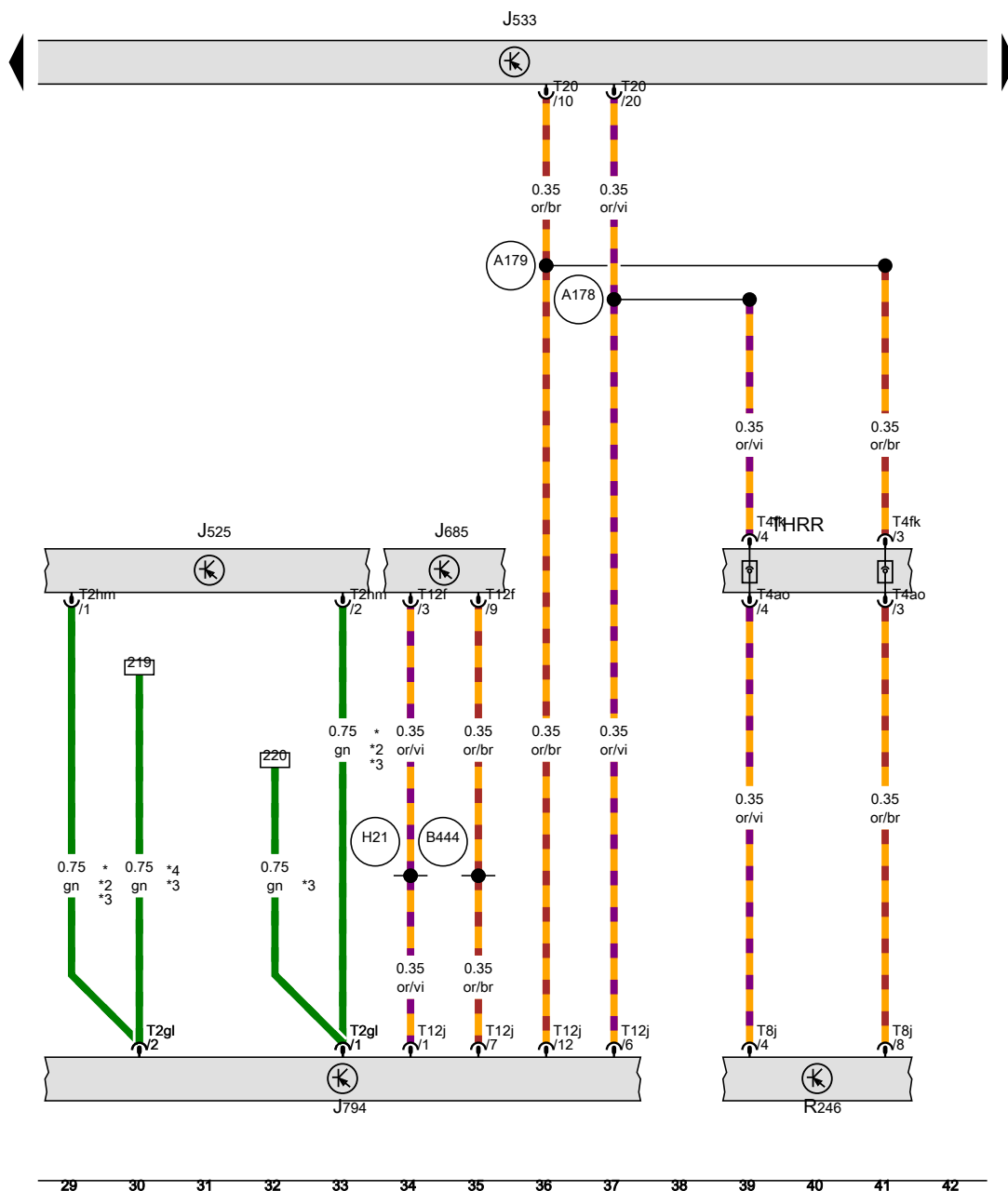
T20 20-Pin Connector, Red

A192 Positive Connection 3 (15a) (in Instrument Panel Wiring Harness)

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ro = red  
rt = red  
br = brown  
gn = green  
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15 16 17 18 19 20 21 22 23 24 25 26 27 28

[0R2-028030317]



# Digital Sound System Control Module, Data Bus on Board Diagnostic Interface, Front Information Display Control Head, Information Electronics Control Module 1, Rear Peripheral Camera

- J525 Digital Sound System Control Module
- J533 Data Bus on Board Diagnostic Interface
- J685 Front Information Display Control Head
- J794 Information Electronics Control Module 1
- R246 Rear Peripheral Camera
- T2gl 2-Pin Connector, Black
- T2hm 2-Pin Connector, Black
- T4ao 4-Pin Connector, Black
- T4fk 4-Pin Connector
- T8j 8-Pin Connector, Black
- T12f 12-Pin Connector, Black
- T12j 12-Pin Connector, Gray
- T20 20-Pin Connector, Red
- THRR Coupling Point in Luggage Compartment, Right

A178 Infotainment CAN Bus High Connection (in Instrument Panel Wiring Harness)

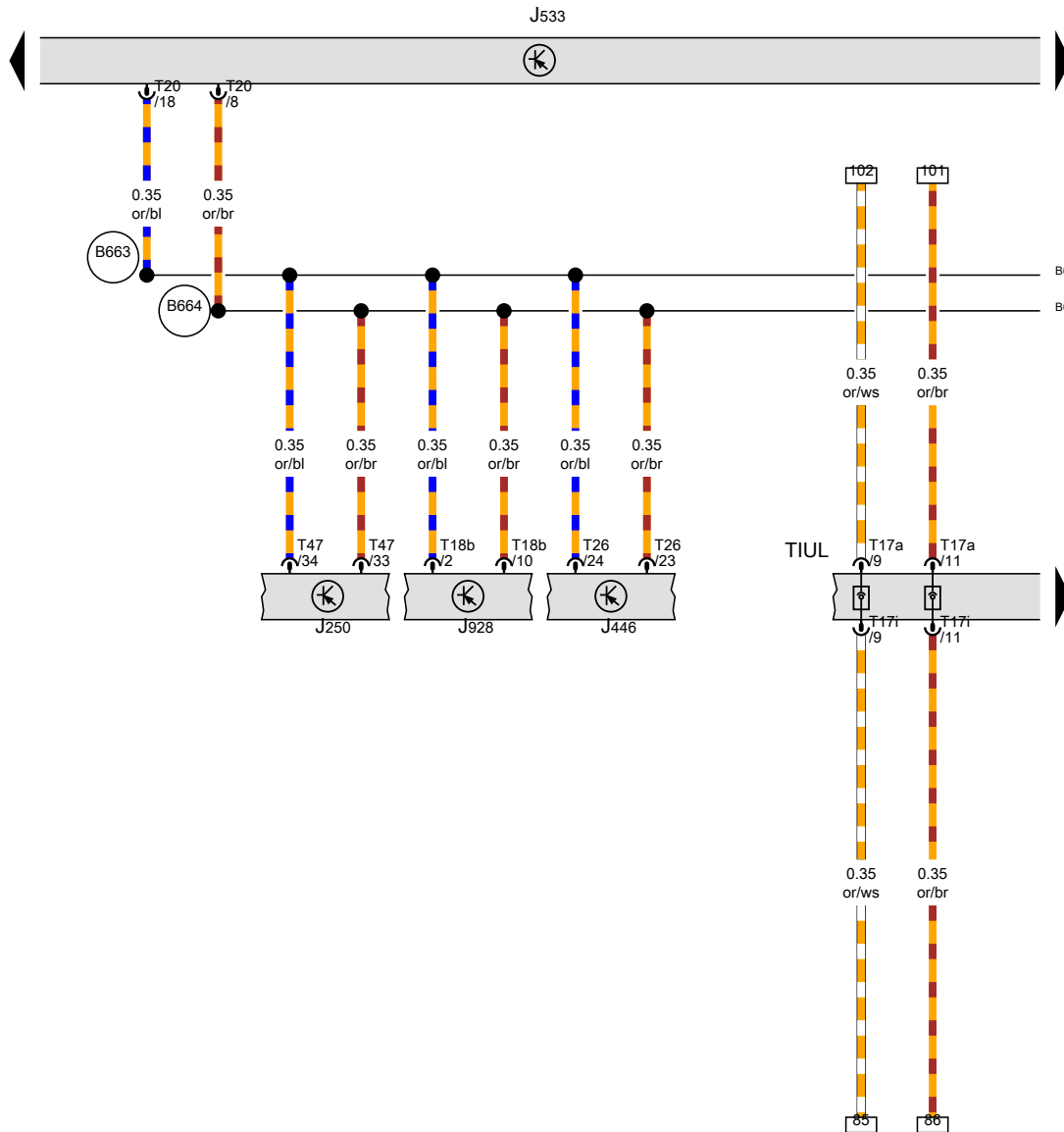
A179 Infotainment CAN Bus Low Connection (in Instrument Panel Wiring Harness)

B444 OBD Connection 1 (in Main Wiring Harness)

H21 Connection 2 (in OBD Wiring Harness)

- \* For Vehicles with Sound System
- \*2 For Vehicles Without TV Reception
- \*3 Fiber Optic Cable
- \*4 For Vehicles Without Sound System

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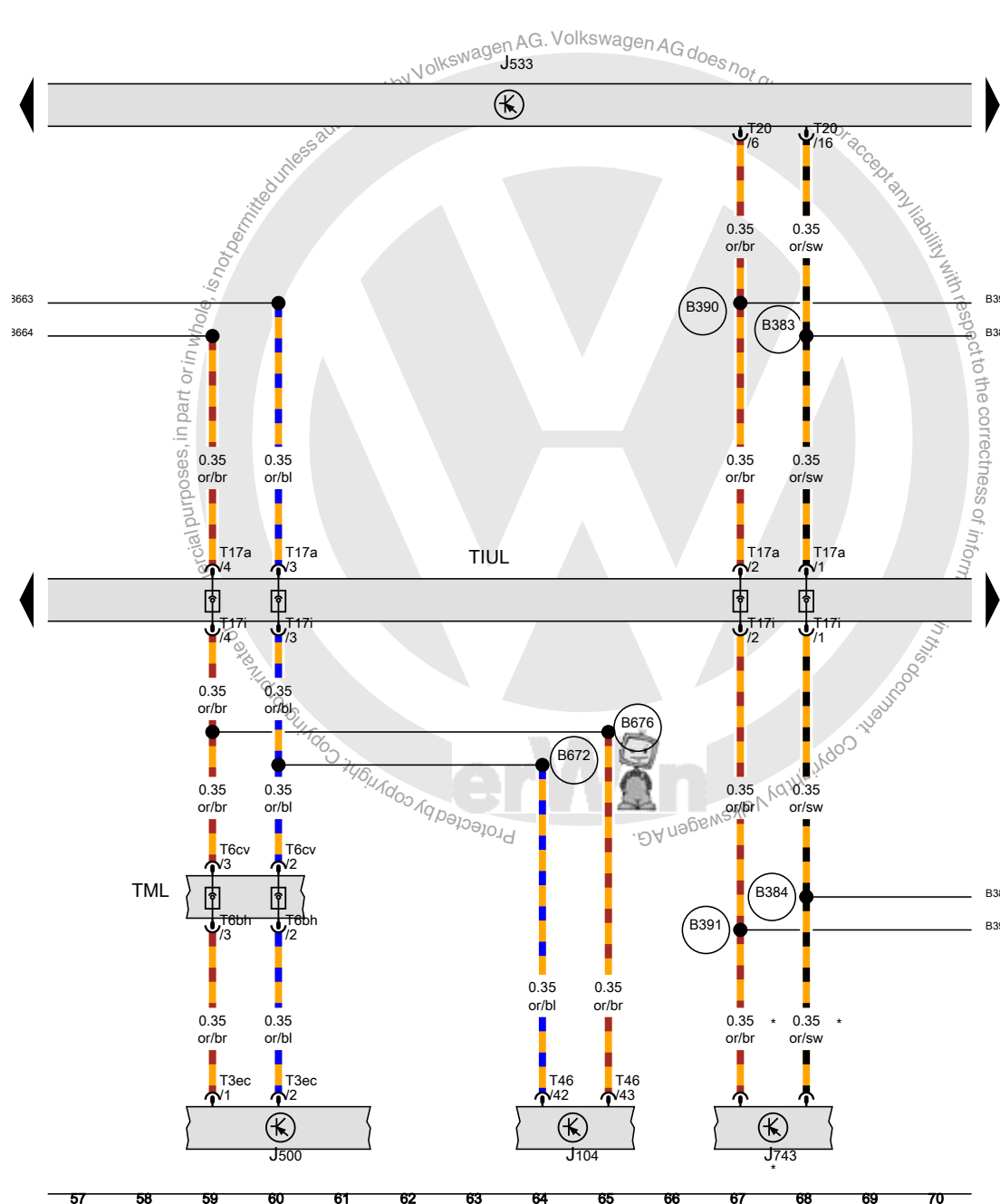


# Electronic Damping Control Module, Parking Aid Control Module, Data Bus on Board Diagnostic Interface, Peripheral Camera Control Module

- J250 Electronic Damping Control Module
- J446 Parking Aid Control Module
- J533 Data Bus on Board Diagnostic Interface
- J928 Peripheral Camera Control Module
- T17a 17-Pin Connector, Brown
- T17i 17-Pin Connector, Brown
- T18b 18-Pin Connector, Naturally Cloudy
- T20 20-Pin Connector, Red
- T26 26-Pin Connector, Black
- T47 47-Pin Connector, Black
- TIUL Coupling Point in Interior, Bottom Left

- B663 Suspension Sensor CAN Bus High Connection (in Main Wiring Harness)
- B664 Suspension Sensor CAN Bus Low Connection (in Main Wiring Harness)

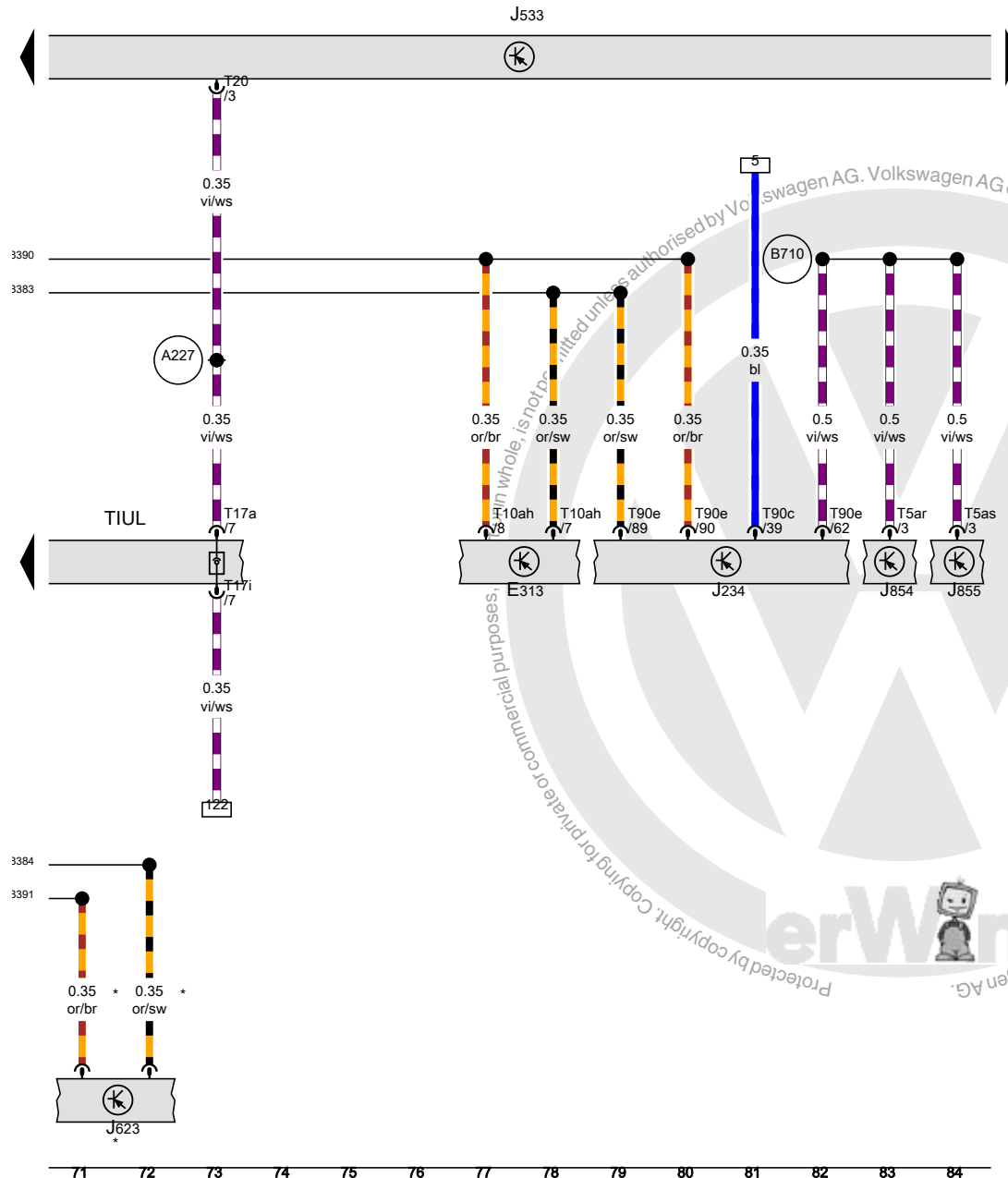




**ABS Control Module, Power Steering Control Module, Data Bus on Board Diagnostic Interface, Dual-Clutch Transmission Mechatronic**

- J104 ABS Control Module
- J500 Power Steering Control Module
- J533 Data Bus on Board Diagnostic Interface
- J743 Dual-Clutch Transmission Mechatronic
- T3ec 3-Pin Connector, Black
- T6bh 6-Pin Connector, Black
- T6cv 6-Pin Connector, Black
- T17a 17-Pin Connector, Brown
- T17i 17-Pin Connector, Brown
- T20 20-Pin Connector, Red
- T46 46-Pin Connector, Black
- TIUL Coupling Point in Interior, Bottom Left
- TML Coupling Point in Engine/Motor Compartment, Left
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B384 Powertrain CAN Bus High Connection 2 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- B391 Powertrain CAN Bus Low Connection 2 (in Main Wiring Harness)
- B663 Suspension Sensor CAN Bus High Connection (in Main Wiring Harness)
- B664 Suspension Sensor CAN Bus Low Connection (in Main Wiring Harness)
- B672 Suspension/Instrument Cluster CAN Bus High Connection 1 (in Main Wiring Harness)
- B676 Suspension/Instrument Cluster CAN Bus Low Connection 1 (in Main Wiring Harness)
- \* Refer to Applicable Transmission Wiring Diagram





Selector Lever, Airbag Control Module, Data Bus on Board Diagnostic Interface, Engine/Motor Control Module, Left Front Seat Belt Tensioner Control Module, Right Front Seat Belt Tensioner Control Module

- E313 Selector Lever
- J234 Airbag Control Module
- J533 Data Bus on Board Diagnostic Interface
- J623 Engine/Motor Control Module
- J854 Left Front Seat Belt Tensioner Control Module
- J855 Right Front Seat Belt Tensioner Control Module
- T5ar 5-Pin Connector, Naturally Cloudy
- T5as 5-Pin Connector, Naturally Cloudy
- T10ah 10-Pin Connector, Black
- T17a 17-Pin Connector, Brown
- T17i 17-Pin Connector, Brown
- T20 20-Pin Connector, Red
- T90c 90-Pin Connector, Yellow
- T90e 90-Pin Connector, Yellow
- TIUL Coupling Point in Interior, Bottom Left
- A227 LIN Bus Connection 2 (in Instrument Panel Wiring Harness)
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B384 Powertrain CAN Bus High Connection 2 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- B391 Powertrain CAN Bus Low Connection 2 (in Main Wiring Harness)
- B710 LIN Bus Connection 5 (in Main Wiring Harness)

\* Refer to Applicable Engine Wiring Diagram

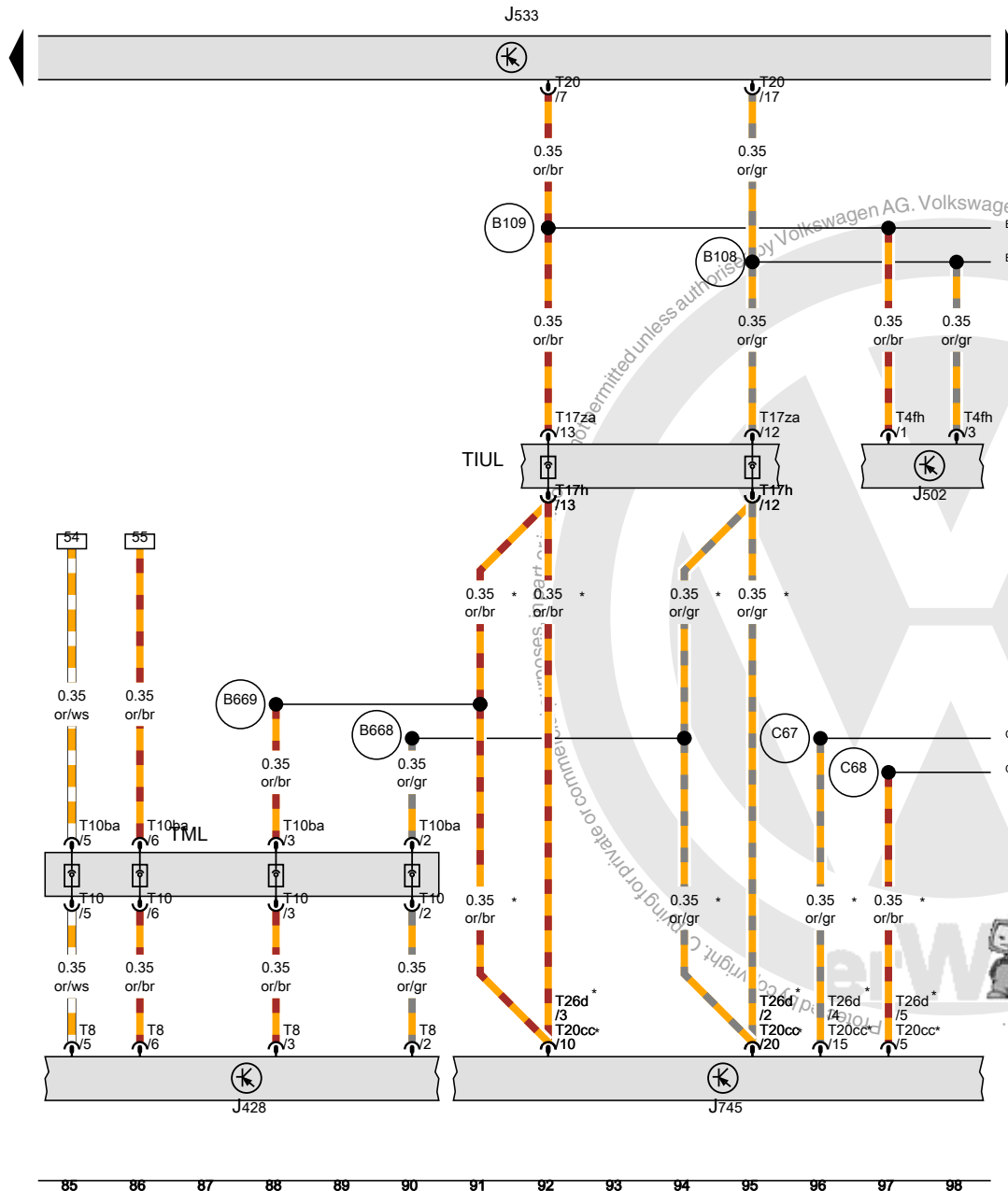
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 ro = red  
 rt = red  
 br = brown  
 gn = green  
 bl = blue  
 gr = grey  
 li = lilac  
 vi = lilac  
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 or = orange  
 rs = pink

Control Module for Adaptive Cruise Control, Tire Pressure Monitoring Control Module, Data Bus on Board Diagnostic Interface, Cornering Lamp and Headlamp Range Control Module

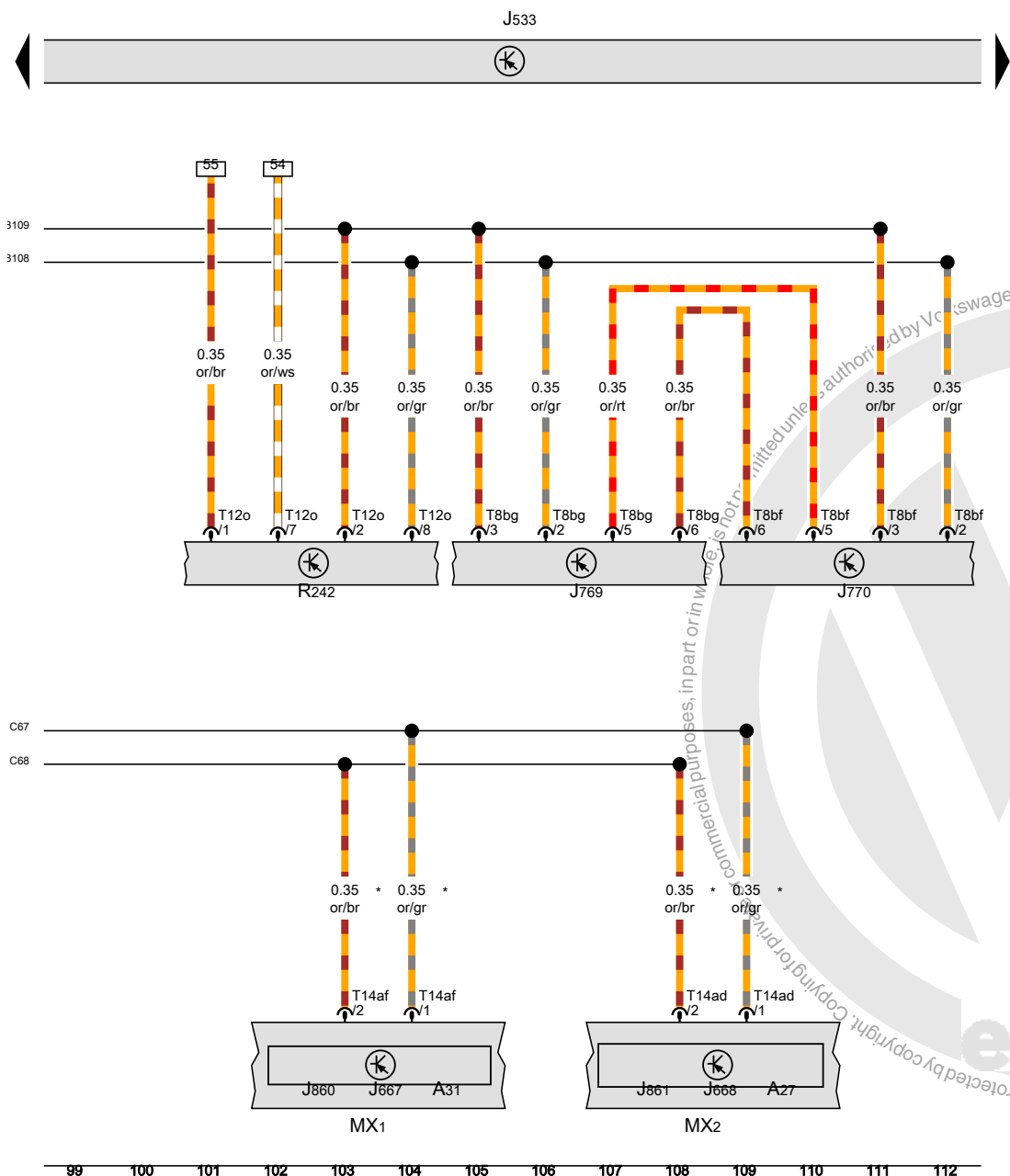
- J428 Control Module for Adaptive Cruise Control
- J502 Tire Pressure Monitoring Control Module
- J533 Data Bus on Board Diagnostic Interface
- J745 Cornering Lamp and Headlamp Range Control Module
- T4fh 4-Pin Connector, Black
- T8 8-Pin Connector
- T10 10-Pin Connector, Black
- T10ba 10-Pin Connector, Black
- T17h 17-Pin Connector, Black
- T17za 17-Pin Connector, Black
- T20 20-Pin Connector, Red
- T26d 26-Pin Connector, White
- TIUL Coupling Point in Interior, Bottom Left
- TML Coupling Point in Engine/Motor Compartment, Left
- B108 CAN Bus Extended High Connection 1 (in Main Wiring Harness)
- B109 CAN Bus Extended Low Connection 1 (in Main Wiring Harness)
- B668 CAN Bus Extended High Connection 2 (in Main Wiring Harness)
- B669 CAN Bus Extended Low Connection 2 (in Main Wiring Harness)
- C67 CAN Bus High Connection (in Headlamp Wiring Harness)
- C68 CAN Bus Low Connection (in Headlamp Wiring Harness)

\* Refer to Applicable Wiring Diagram

ws = white  
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gr = grey  
li = lilac  
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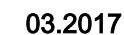
Right LED Headlamp Power Output Module 1, Left LED Headlamp Power Output Module 1, Data Bus on Board Diagnostic Interface, Left Headlamp Power Output Module, Right Headlamp Power Output Module, Lane Change Assistance Control Module, Lane Change Assistance Control Module 2, Left Daytime Running Lamp and Position Lamp Control Module, Right Daytime Running Lamp and Position Lamp Control Module, Left Front Headlamp, Right Front Headlamp, Driver Assistance Systems Front Camera

- A27 Right LED Headlamp Power Output Module 1
- A31 Left LED Headlamp Power Output Module 1
- J533 Data Bus on Board Diagnostic Interface
- J667 Left Headlamp Power Output Module
- J668 Right Headlamp Power Output Module
- J769 Lane Change Assistance Control Module
- J770 Lane Change Assistance Control Module 2
- J860 Left Daytime Running Lamp and Position Lamp Control Module
- J861 Right Daytime Running Lamp and Position Lamp Control Module
- MX1 Left Front Headlamp
- MX2 Right Front Headlamp
- R242 Driver Assistance Systems Front Camera
- T8bf 8-Pin Connector, Black
- T8bg 8-Pin Connector, Black
- T12o 12-Pin Connector, Black
- T14ad 14-Pin Connector, Black
- T14af 14-Pin Connector, Black

- (B108) CAN Bus Extended High Connection 1 (in Main Wiring Harness)
- (B109) CAN Bus Extended Low Connection 1 (in Main Wiring Harness)
- (C67) CAN Bus High Connection (in Headlamp Wiring Harness)
- (C68) CAN Bus Low Connection (in Headlamp Wiring Harness)

\* Refer to Applicable Wiring Diagram

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- gn = green
- bl = blue
- gr = grey
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Data Bus on Board Diagnostic Interface, Left Front Seat Backrest Fan 1, Left Front Seat Cushion Fan 1, Right Front Seat Backrest Fan 1, Right Front Seat Cushion Fan 1

- J533 Data Bus on Board Diagnostic Interface
- J745 Cornering Lamp and Headlamp Range Control Module
- T4ic 4-Pin Connector, Black
- T4id 4-Pin Connector, Black
- T4ie 4-Pin Connector, White
- T4if 4-Pin Connector, White
- T6ad 6-Pin Connector, Black
- T6aj 6-Pin Connector, Black
- T6dd 6-Pin Connector, Black
- T6x 6-Pin Connector, Black
- T17h 17-Pin Connector
- T17za 17-Pin Connector
- T17zb 17-Pin Connector
- T17zc 17-Pin Connector
- T17zd 17-Pin Connector
- TISVL Coupling Station in Left Front Seat
- TISVR Coupling Station in Right Front Seat
- TSVL Left Front Seat Coupling Station
- TSVR Right Front Seat Coupling Station
- V512 Left Front Seat Backrest Fan 1
- V514 Left Front Seat Cushion Fan 1
- V516 Right Front Seat Backrest Fan 1
- V518 Right Front Seat Cushion Fan 1

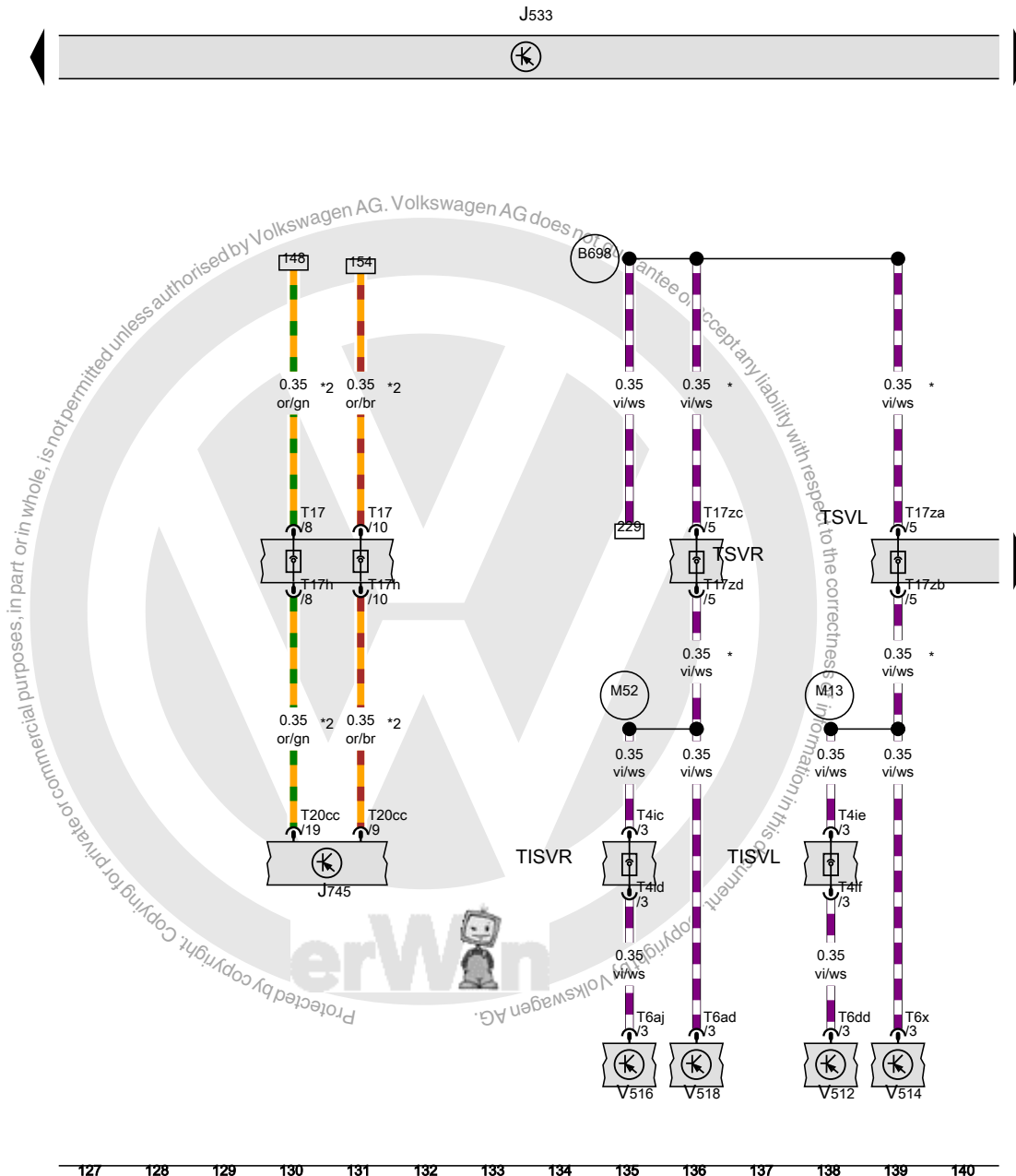
B698 LIN Bus Connection 3 (in Main Wiring Harness)

M13 Connection 4 (in Driver Seat Adjustment Wiring Harness)

M52 Connection 2 (in Front Passenger Seat Wiring Harness)

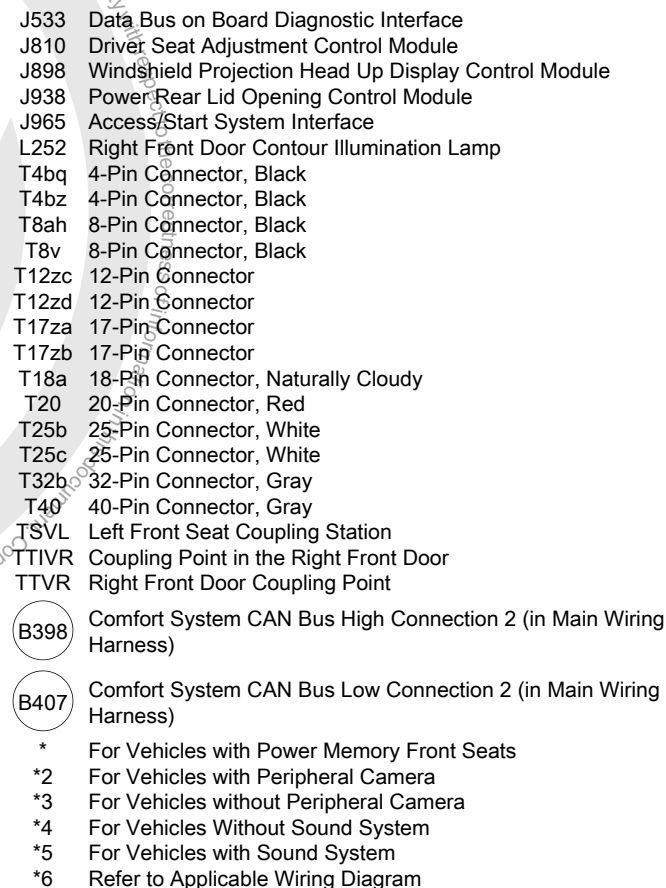
- \* For Vehicles with Seat Ventilation
- \*2 Refer to Applicable Wiring Diagram

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bl = blue  
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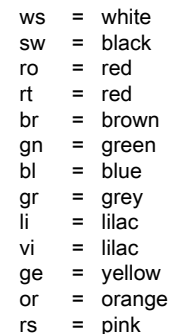


127 128 129 130 131 132 133 134 135 136 137 138 139 140

127 128 129 130 131 132 133 134 135 136 137 138 139 140



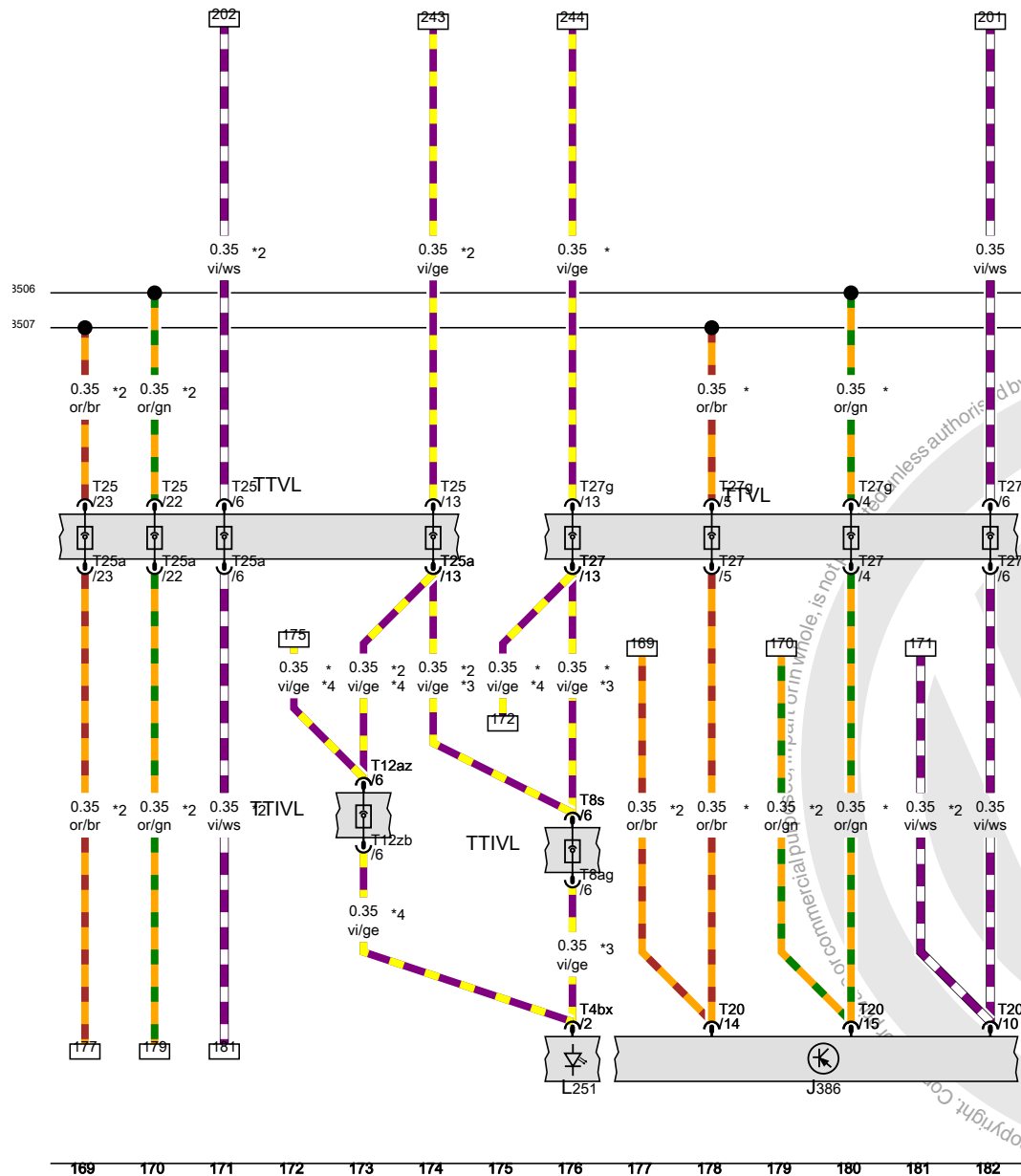
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J245	Sunroof Control Module
J387	Front Passenger Door Control Module
J453	Multifunction Steering Wheel Control Module
J527	Steering Column Electronics Control Module
J533	Data Bus on Board Diagnostic Interface
T3	3-Pin Connector, Black
T5aq	5-Pin Connector, Black
T5b	5-Pin Connector, Black
T5cf	5-Pin Connector, Black
T5cg	5-Pin Connector, Black
T6ap	6-Pin Connector, Black
T6ar	6-Pin Connector, Black
T12z	12-Pin Connector, White
T16g	16-Pin Connector, Black
T20	20-Pin Connector, Red
T20a	20-Pin Connector, Black
T27a	27-Pin Connector, Black
T27d	27-Pin Connector, Black
TH	Coupling Point on Roof
TI	Coupling Point in Interior
TTVR	Right Front Door Coupling Point
Y	Analog Clock
<b>B398</b>	Comfort System CAN Bus High Connection 2 (in Main Wiring Harness)
<b>B407</b>	Comfort System CAN Bus Low Connection 2 (in Main Wiring Harness)
<b>B506</b>	Comfort CAN Bus High Connection (in Interior Wiring Harness)
<b>B507</b>	Comfort CAN Bus Low Connection (in Interior Wiring Harness)
<b>B549</b>	LIN Bus Connection 2 (in Main Wiring Harness)
*	For Vehicles without Peripheral Camera
*2	For Vehicles with Peripheral Camera
*3	For Vehicles Without Sound System
*4	For Vehicles with Sound System



Driver Door Control Module, Left Front Door Contour Illumination Lamp



- J386 Driver Door Control Module
- L251 Left Front Door Contour Illumination Lamp
- T4bx 4-Pin Connector, Black
- T8ag 8-Pin Connector, Black
- T8s 8-Pin Connector, Black
- T12az 12-Pin Connector
- T12zb 12-Pin Connector
- T20 20-Pin Connector, Black
- T25 25-Pin Connector, White
- T25a 25-Pin Connector, White
- T27 27-Pin Connector, Black
- T27g 27-Pin Connector, Black
- TTIVL Coupling Point in the Left Front Door
- T2IVL Left Front Door Coupling Point

B506 Comfort CAN Bus High Connection (in Interior Wiring Harness)

B507 Comfort CAN Bus Low Connection (in Interior Wiring Harness)

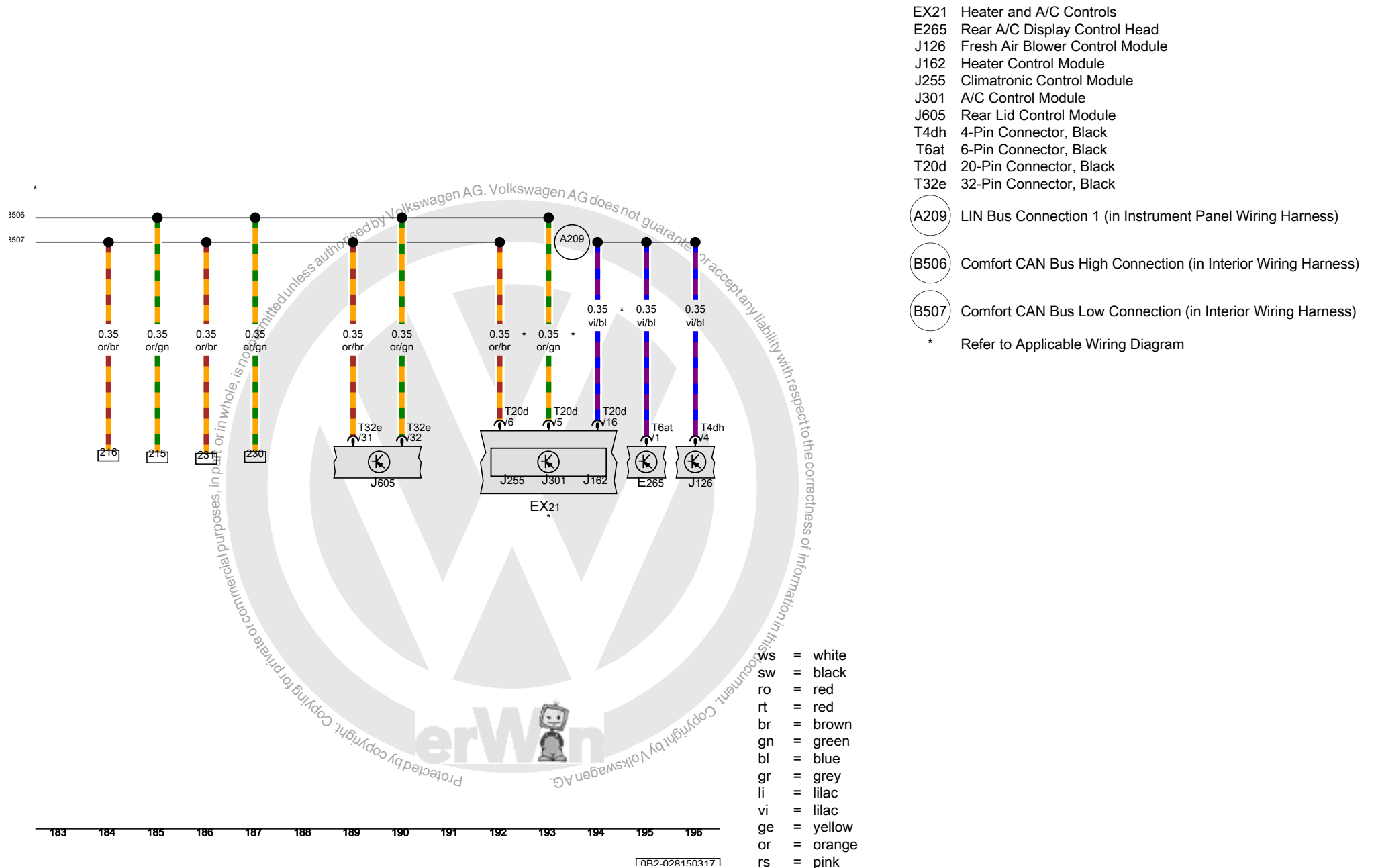
- \* For Vehicles without Peripheral Camera
- \*2 For Vehicles with Peripheral Camera
- \*3 For Vehicles Without Sound System
- \*4 For Vehicles with Sound System

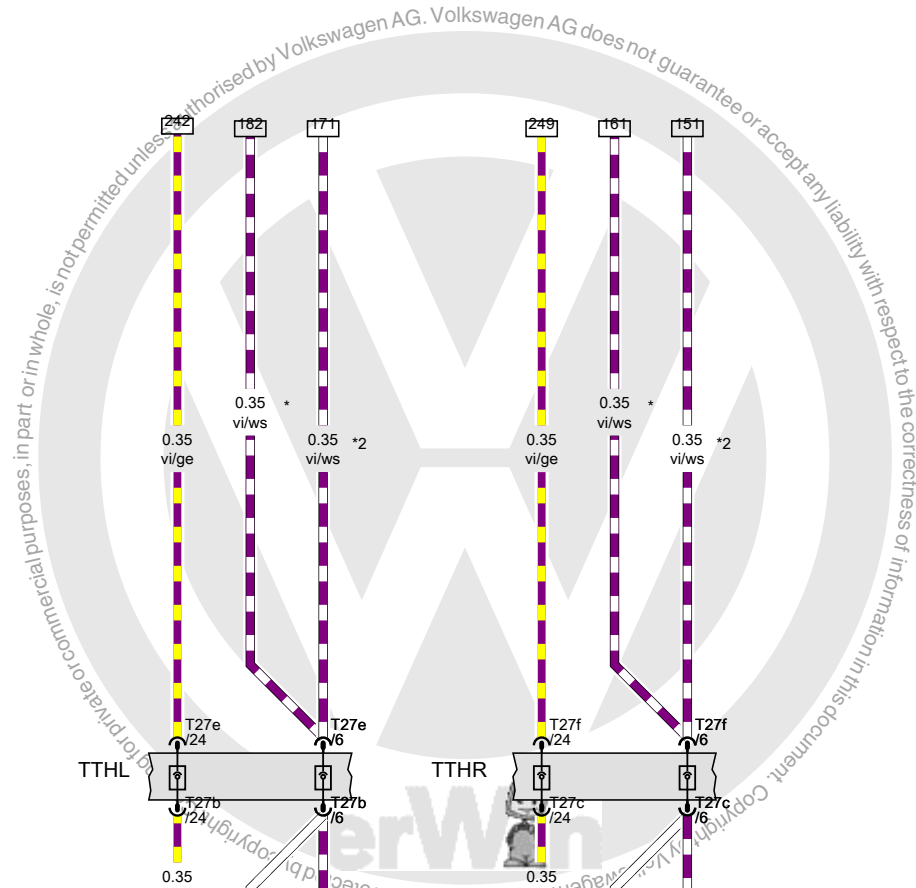
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169 170 171 172 173 174 175 176 177 178 179 180 181 182



Heater and A/C Controls, Rear A/C Display Control Head, Fresh Air Blower Control Module, Rear Lid Control Module





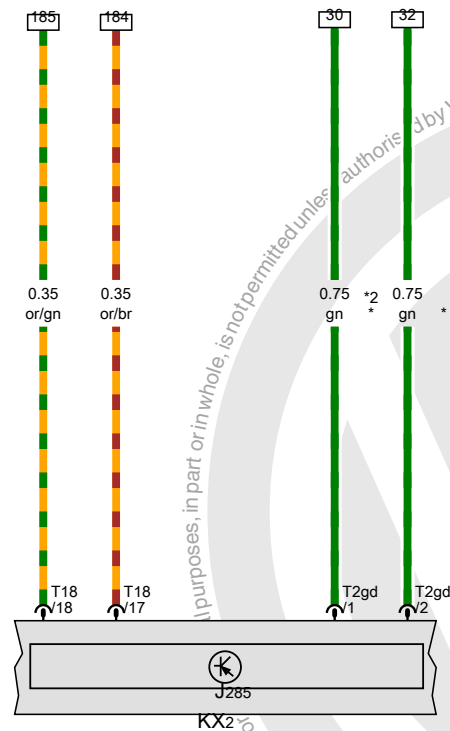
**Left Rear Door Control Module, Right Rear Door Control Module, Left Rear Door Contour Illumination Lamp, Left Rear Window Regulator Motor, Right Rear Window Regulator Motor**

- J388 Left Rear Door Control Module
- J389 Right Rear Door Control Module
- L253 Left Rear Door Contour Illumination Lamp
- L254 Right Rear Door Contour Illumination Lamp
- T4ca 4-Pin Connector, Black
- T4ig 4-Pin Connector, Black
- T8ai 8-Pin Connector, Black
- T8aj 8-Pin Connector, Black
- T8x 8-Pin Connector, Black
- T8z 8-Pin Connector, Black
- T10g 10-Pin Connector, Black
- T10h 10-Pin Connector, Black
- T20b 20-Pin Connector, Black
- T20c 20-Pin Connector, Black
- T27b 27-Pin Connector, Black
- T27c 27-Pin Connector, Black
- T27e 27-Pin Connector, Black
- T27f 27-Pin Connector, Black
- TTHL Left Rear Door Coupling Point
- TTHR Right Rear Door Coupling Point
- TTIHL Coupling Point in the Left Rear Door
- TTIHR Coupling Point in the Right Rear Door
- V26 Left Rear Window Regulator Motor
- V27 Right Rear Window Regulator Motor
- \* For Vehicles without Peripheral Camera
- \*2 For Vehicles with Peripheral Camera
- \*3 For Vehicles with Left Rear Door Control Module
- \*4 For Vehicles Without Left Rear Door Control Module
- \*5 For Vehicles Without Right Rear Door Control Module
- \*6 For Vehicles with Right Rear Door Control Module

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Instrument Cluster Control Module, Instrument Cluster

- J285 Instrument Cluster Control Module
- KX2 Instrument Cluster
- T2gd 2-Pin Connector, Black
- T18 18-Pin Connector, Black
- \* Fiber Optic Cable
- \*2 For Vehicles Without Sound System



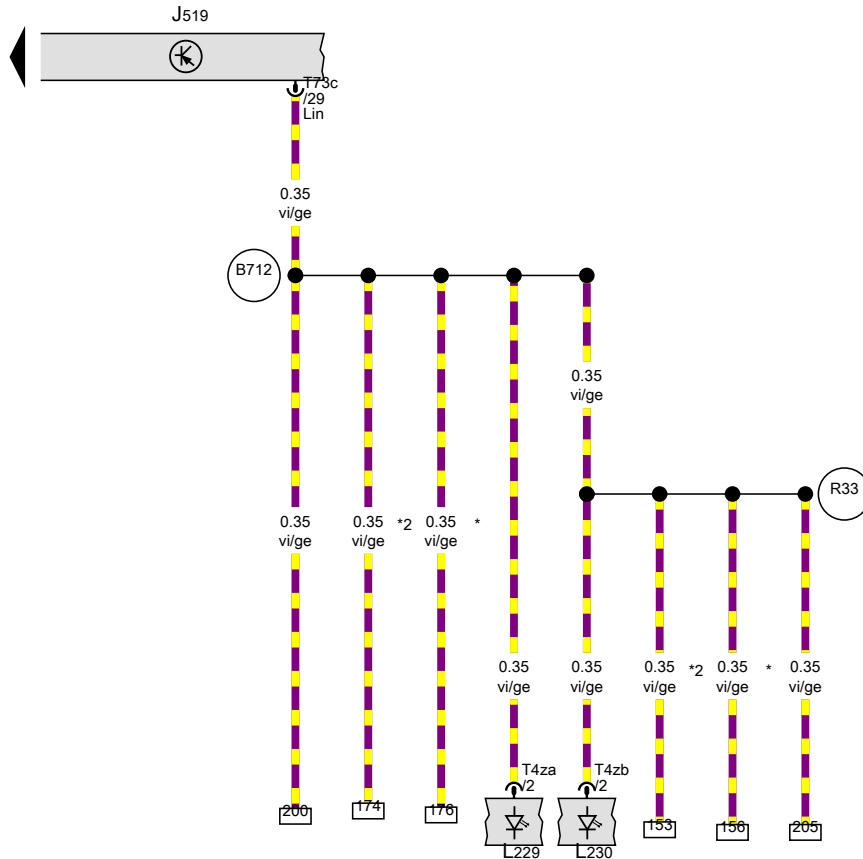
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211 212 213 214 215 216 217 218 219 220 221 222 223 224

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# Vehicle Electrical System Control Module, Left Instrument Panel Ambient Lighting Lamp, Right Instrument Panel Ambient Lighting Lamp

- J519 Vehicle Electrical System Control Module
- L229 Left Instrument Panel Ambient Lighting Lamp
- L230 Right Instrument Panel Ambient Lighting Lamp
- T4za 4-Pin Connector
- T4zb 4-Pin Connector
- T73c 73-Pin Connector, Black

B712 LIN Bus Connection 7 (in Main Wiring Harness)

R33 Positive Connection 3 (in Interior Lamp Wiring Harness)

- \* For Vehicles without Peripheral Camera
- \*2 For Vehicles with Peripheral Camera

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- sw = black
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- gn = green
- bl = blue
- gr = grey
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- or = orange
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239 240 241 242 243 244 245 246 247 248 249 250 251 252

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**Sound System, Dynaudio , CUGA**

From July 2016



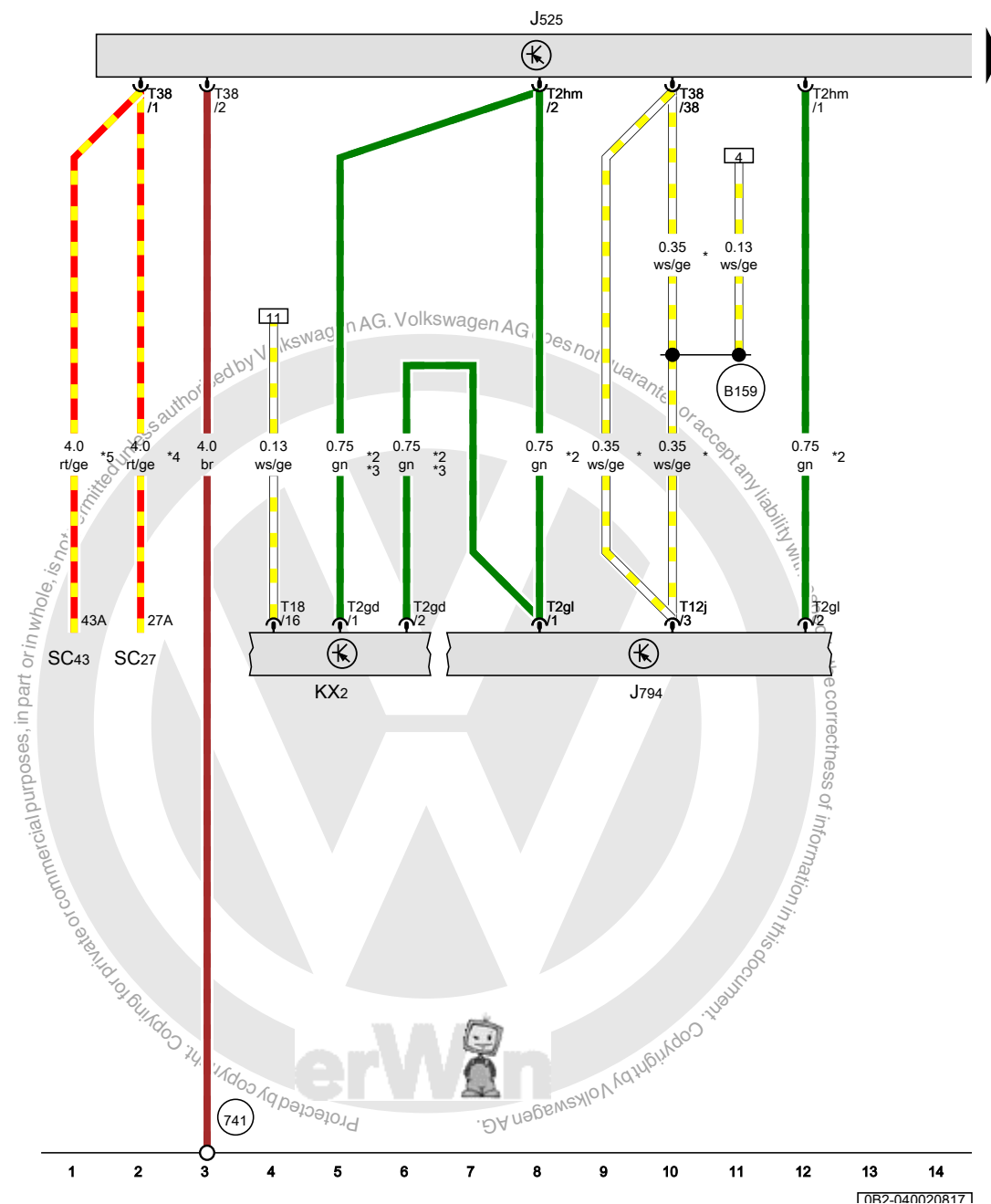
Digital Sound System Control Module, Information  
Electronics Control Module 1, Instrument Cluster, Fuse 27  
(On Fuse Panel C)

- J525 Digital Sound System Control Module
- J794 Information Electronics Control Module 1
- KX2 Instrument Cluster
- SC27 Fuse 27 (On Fuse Panel C)
- SC43 Fuse 43 (On Fuse Panel C)
- T2gd 2-Pin Connector, Black
- T2gl 2-Pin Connector, Black
- T2hm 2-Pin Connector, Black
- T12j 12-Pin Connector, Gray
- T18 18-Pin Connector
- T38 38-Pin Connector, Black

- 741 Ground Connection Under Left Front Seat
- B159 Diagnostic Connection (in Interior Wiring Harness)

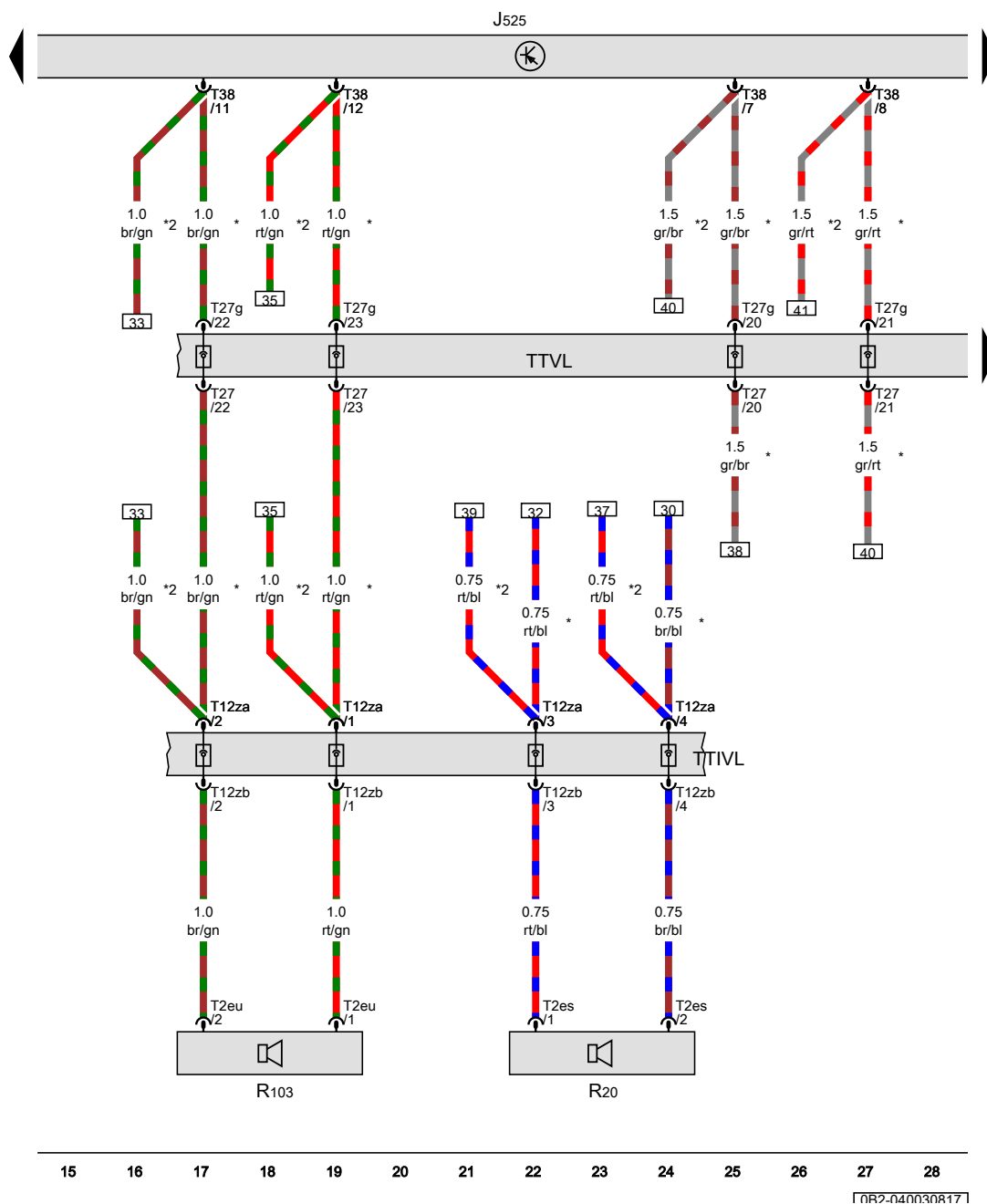
- \* Depending on Equipment
- \*2 Fiber Optic Cable
- \*3 Refer to Applicable Wiring Diagram for Instrument Cluster
- \*4 Through August 2017
- \*5 From August 2017

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### Digital Sound System Control Module, Left Front Treble Speaker, Left Front Midrange Speaker

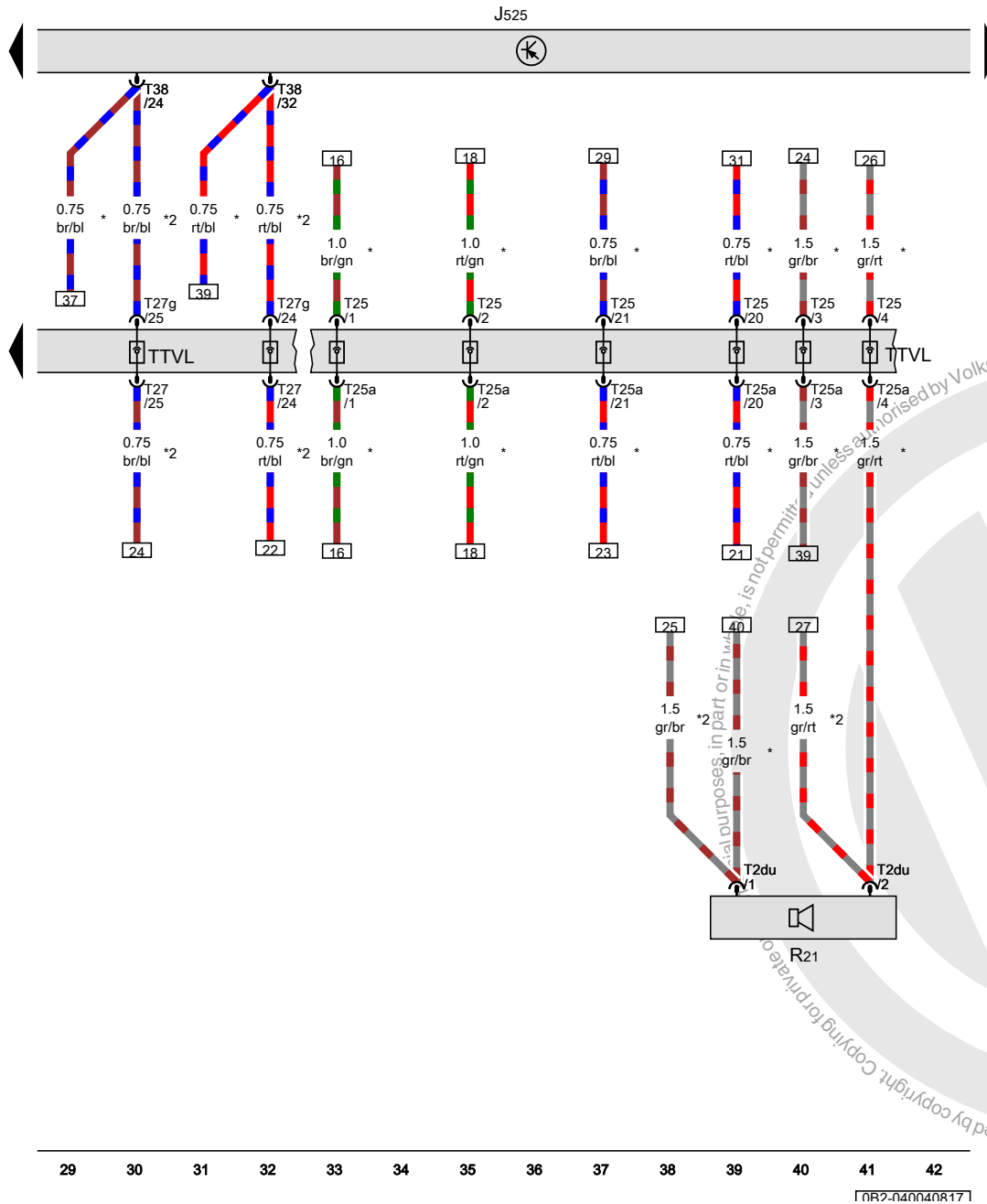
- |       |  |
|-------|--|
| J525  | Digital Sound System Control Module    |
| R20   | Left Front Treble Speaker              |
| R103  | Left Front Midrange Speaker            |
| T2es  | 2-Pin Connector, Black                 |
| T2eu  | 2-Pin Connector, Black                 |
| T12za | 12-Pin Connector                       |
| T12zb | 12-Pin Connector                       |
| T27   | 27-Pin Connector, Black                |
| T27g  | 27-Pin Connector, Black                |
| T38   | 38-Pin Connector, Black                |
| TTIVL | Coupling Point in the Left Front Door  |
| TTVL  | Left Front Door Coupling Point         |
| *     | For Vehicles without Peripheral Camera |
| *2    | For Vehicles with Peripheral Camera    |

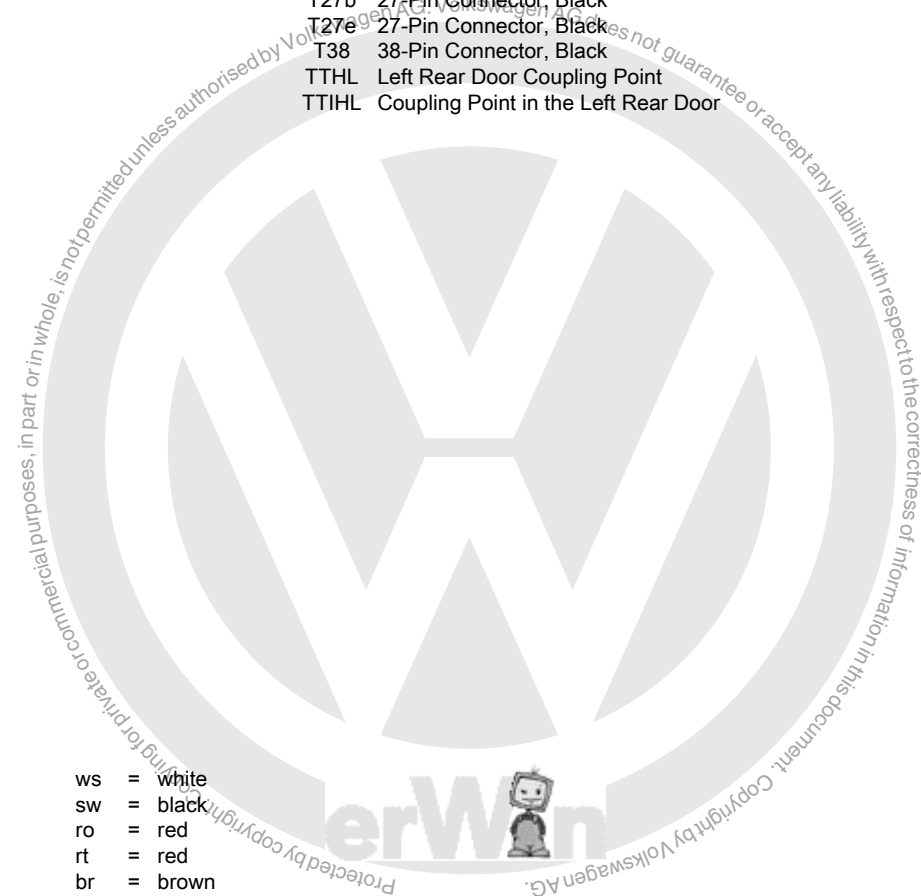


ws	=	white
sw	=	black
ro	=	red
rt	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	lilac
vi	=	lilac
ge	=	yellow
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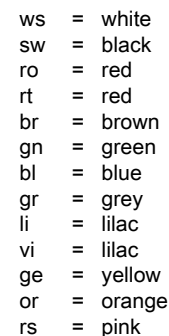
Digital Sound System Control Module, Left Front Bass Speaker





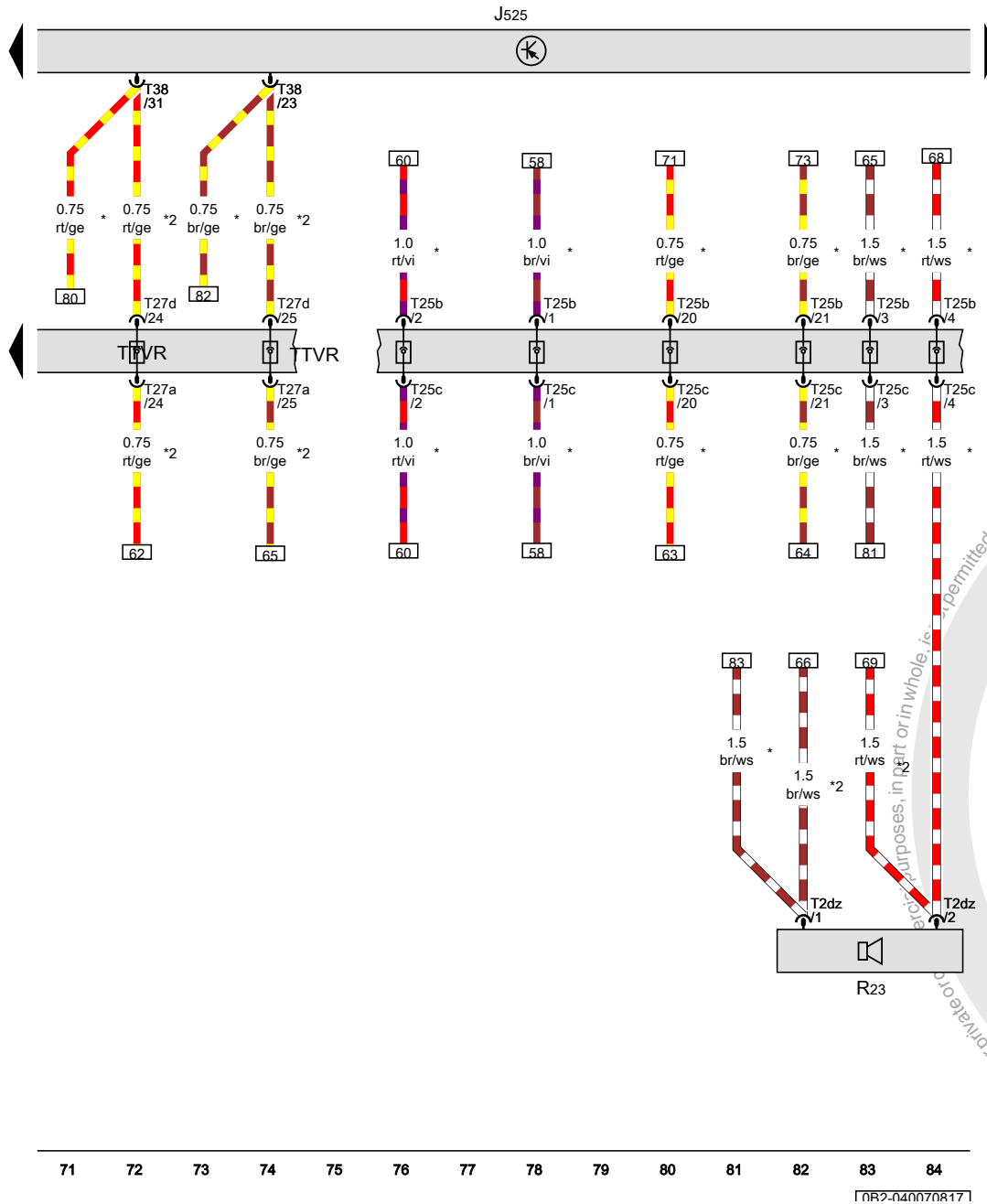
ws	=	white
sw	=	black
ro	=	red
rt	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	lilac
vi	=	lilac
ge	=	yellow
or	=	orange
rs	=	pink

J525	Digital Sound System Control Module
R22	Right Front Treble Speaker
R104	Right Front Midrange Speaker
T2fa	2-Pin Connector, Black
T2fc	2-Pin Connector, Black
T12zc	12-Pin Connector, Black
T12zd	12-Pin Connector, Black
T27a	27-Pin Connector, Black
T27d	27-Pin Connector, Black
T38	38-Pin Connector, Black
TTIVR	Coupling Point in the Right Front Door
TTVR	Right Front Door Coupling Point
*	For Vehicles without Peripheral Camera
*2	For Vehicles with Peripheral Camera



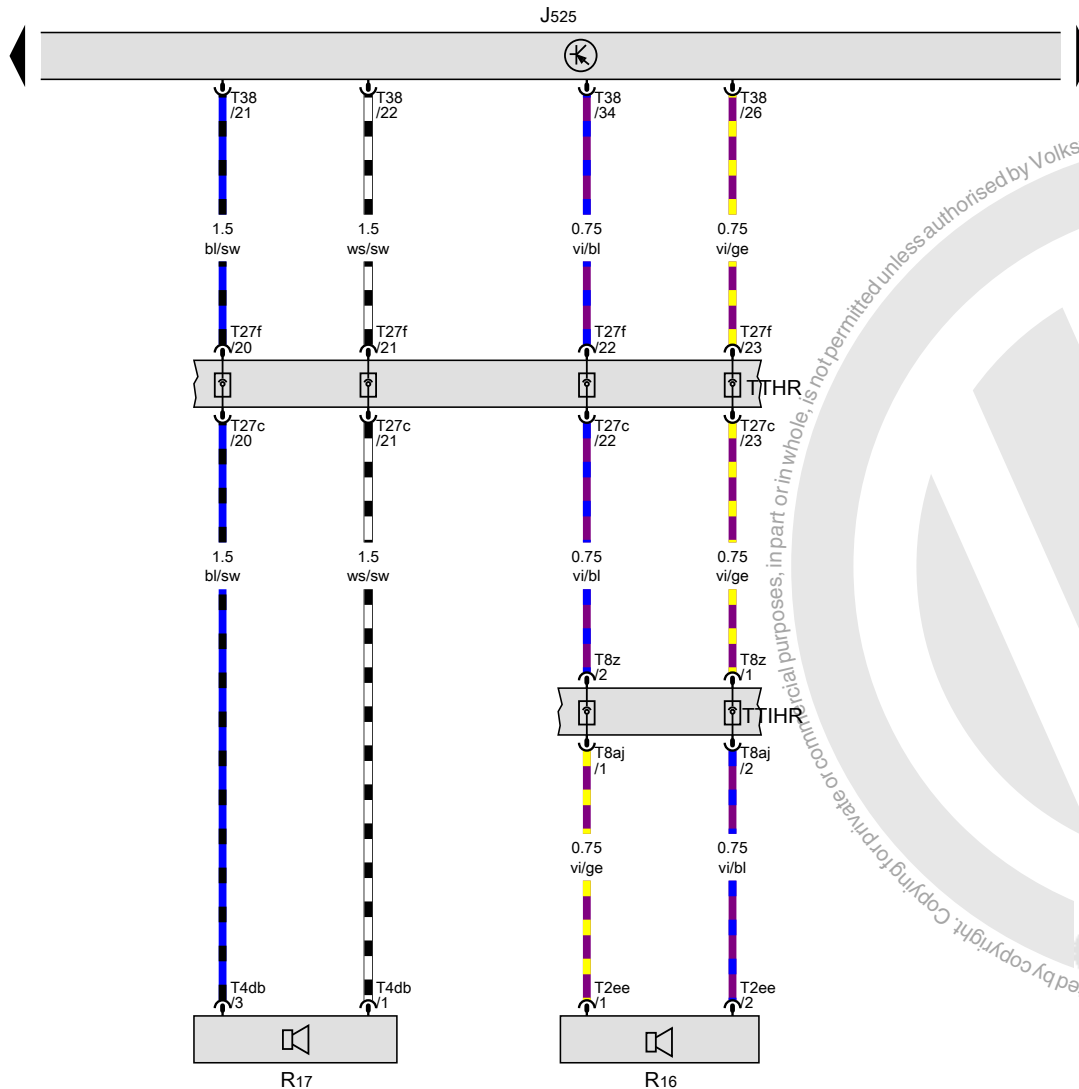
Digital Sound System Control Module, Right Front Bass Speaker

- J525 Digital Sound System Control Module  
 R23 Right Front Bass Speaker  
 T2dz 2-Pin Connector, Black  
 T25b 25-Pin Connector, White  
 T25c 25-Pin Connector, White  
 T27a 27-Pin Connector, Black  
 T27d 27-Pin Connector, Black  
 T38 38-Pin Connector, Black  
 TTVR Right Front Door Coupling Point  
 \* For Vehicles with Peripheral Camera  
 \*2 For Vehicles without Peripheral Camera



Digital Sound System Control Module, Right Rear Treble Speaker, Right Rear Bass Speaker

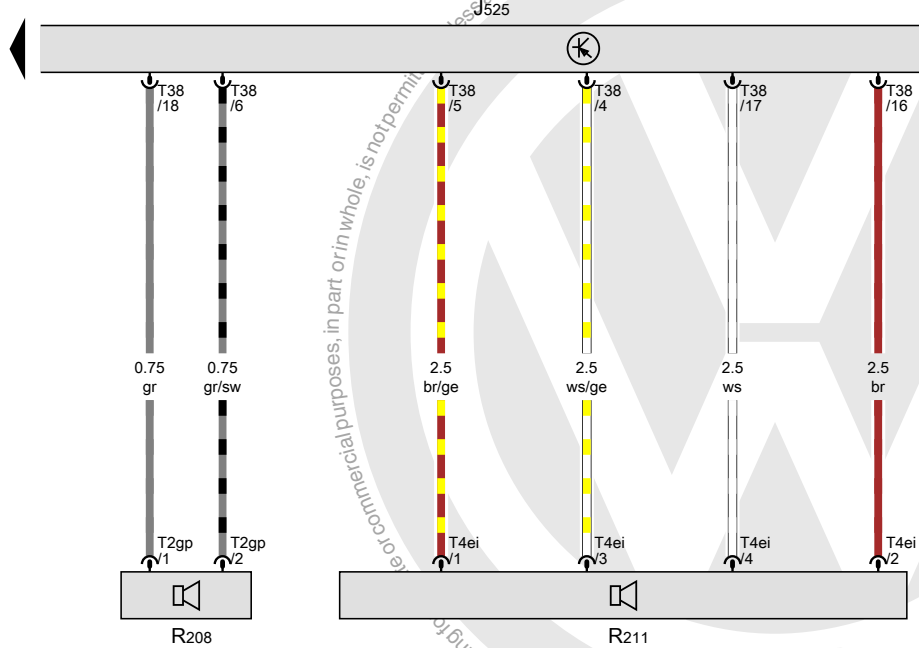
- J525 Digital Sound System Control Module
- R16 Right Rear Treble Speaker
- R17 Right Rear Bass Speaker
- T2ee 2-Pin Connector, Black
- T4db 4-Pin Connector, Black
- T8aj 8-Pin Connector, Black
- T8z 8-Pin Connector, Black
- T27c 27-Pin Connector, Black
- T27f 27-Pin Connector, Black
- T38 38-Pin Connector, Black
- TTHR Right Rear Door Coupling Point
- TTIHR Coupling Point in the Right Rear Door



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

### Digital Sound System Control Module, Center Speaker, Subwoofer

J525	Digital Sound System Control Module
R208	Center Speaker
R211	Subwoofer
T2gp	2-Pin Connector, Black
T4ei	4-Pin Connector, Black
T38	38-Pin Connector, Black

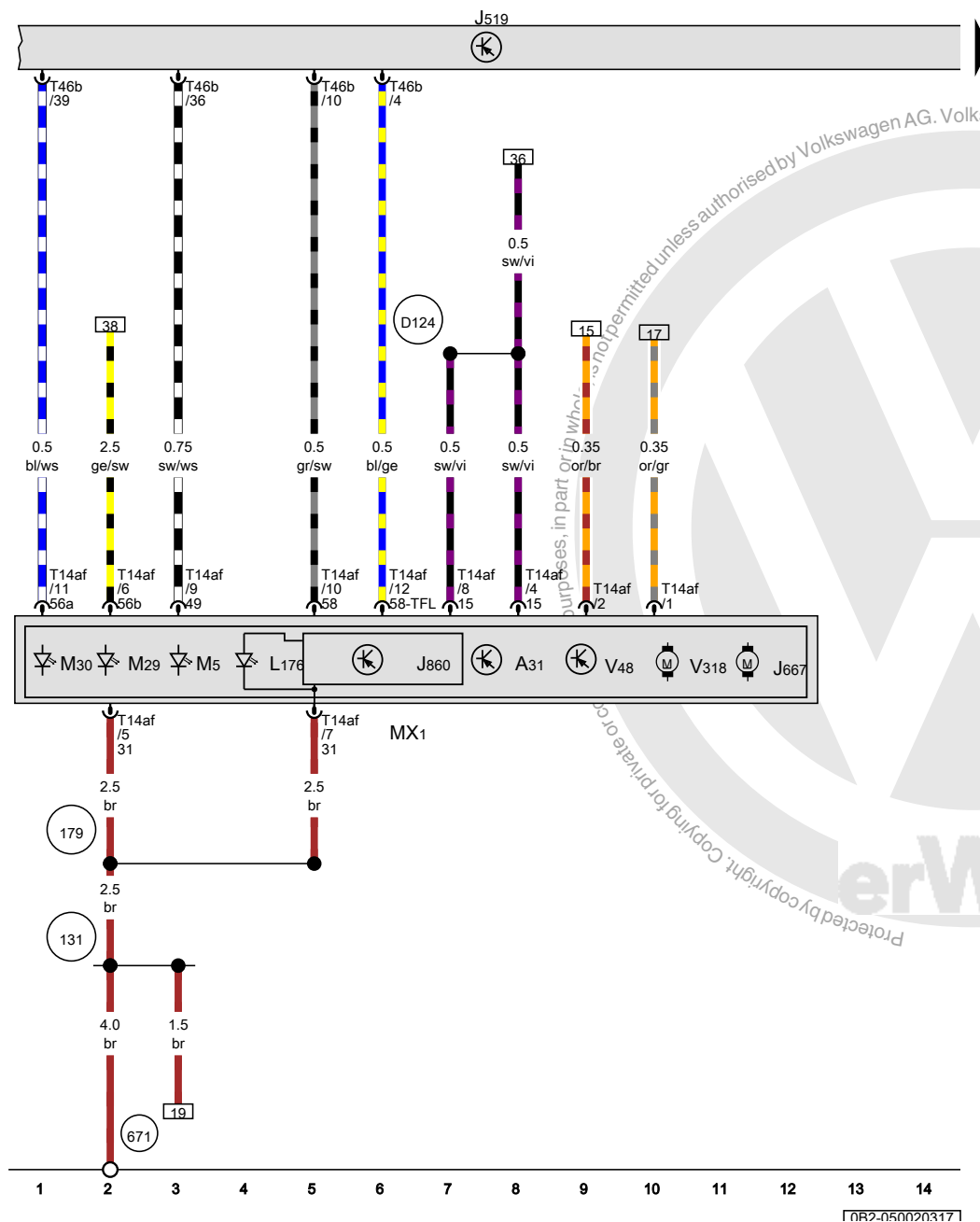


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br	=	brown
gn	=	green
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vi	=	lilac
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or	=	orange
rs	=	pink

## Headlamps LED , (8Q5)

From July 2016





Left LED Headlamp Power Output Module 1, Vehicle Electrical System Control Module, Left Headlamp Power Output Module, Left Daytime Running Lamp and Position Lamp Control Module, Left Daytime Running Lamp and Position Lamp LED Module, Left Front Headlamp, Left Front Turn Signal Bulb, Left Low Beam Headlamp Bulb, Left High Beam Headlamp Bulb, Left Headlamp Beam Adjustment Motor, Left Adaptive Cornering Lamp Motor

- A31 Left LED Headlamp Power Output Module 1
- J519 Vehicle Electrical System Control Module
- J667 Left Headlamp Power Output Module
- J860 Left Daytime Running Lamp and Position Lamp Control Module
- L176 Left Daytime Running Lamp and Position Lamp LED Module
- MX1 Left Front Headlamp
- M5 Left Front Turn Signal Bulb
- M29 Left Low Beam Headlamp Bulb
- M30 Left High Beam Headlamp Bulb
- T14af 14-Pin Connector, Black
- T46b 46-Pin Connector, Black
- V48 Left Headlamp Beam Adjustment Motor
- V318 Left Adaptive Cornering Lamp Motor
- 131 Ground Connection 2 (in Engine/Motor Compartment Wiring Harness)
- 179 Ground Connection (in Left Headlamp Wiring Harness)
- 671 Ground Connection 1 on Left Front Longitudinal Member
- D124 Connection 22 (in Engine/Motor Compartment Wiring Harness)

ws = white  
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 vi = lilac  
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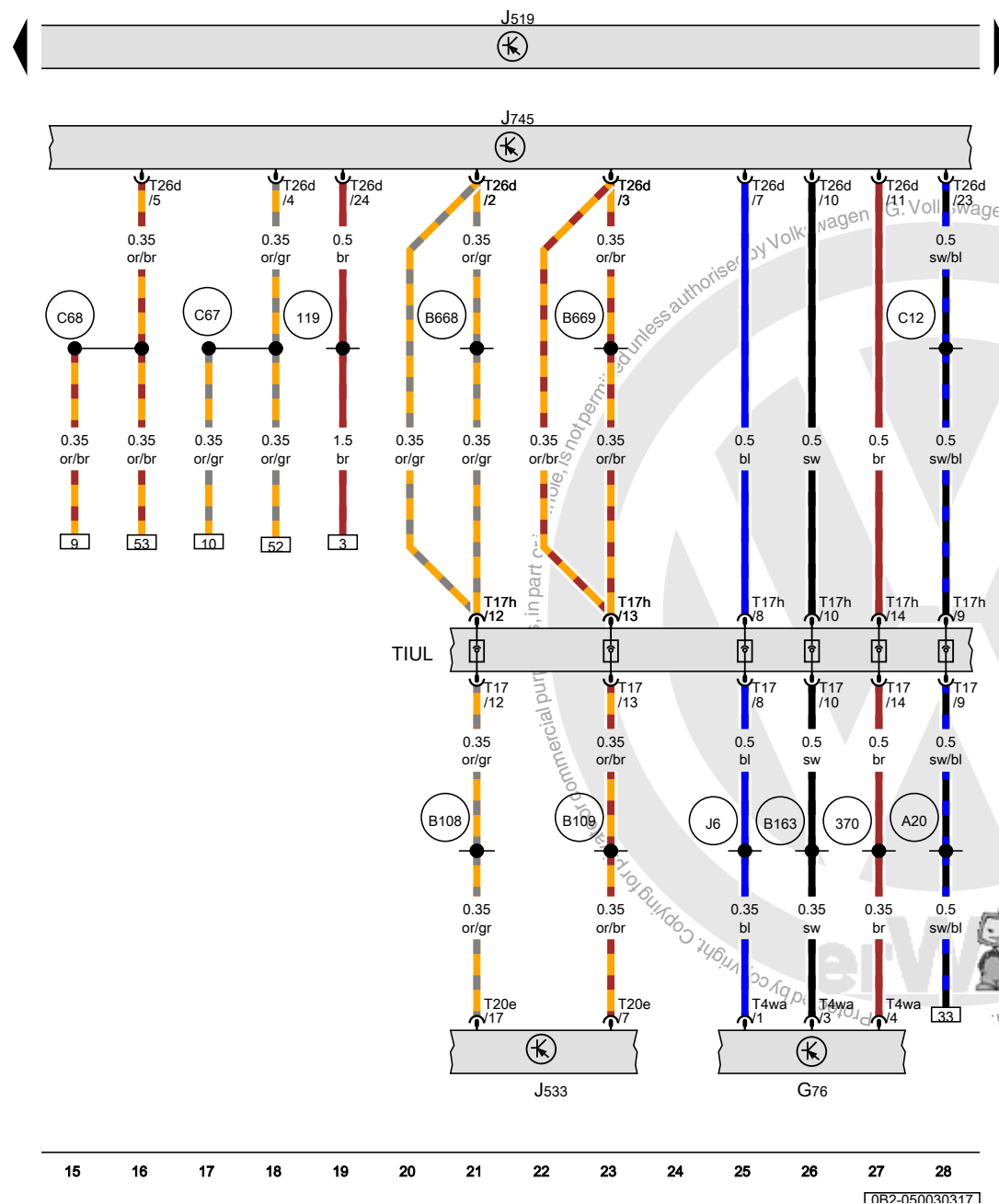


Left Rear Level Control System Sensor, Vehicle Electrical System Control Module, Data Bus on Board Diagnostic Interface, Cornering Lamp and Headlamp Range Control Module

- G76 Left Rear Level Control System Sensor
- J519 Vehicle Electrical System Control Module
- J533 Data Bus on Board Diagnostic Interface
- J745 Cornering Lamp and Headlamp Range Control Module
- T4wa 4-Pin Connector
- T17 17-Pin Connector, Black
- T17h 17-Pin Connector, Black
- T20e 20-Pin Connector, Red
- T26d 26-Pin Connector, White
- TIUL Coupling Point in Interior, Bottom Left

- 119 Ground Connection 1 (in Headlamp Wiring Harness)
- 370 Ground Connection 5 (in Main Wiring Harness)
- A20 Positive Connection 15a (in Instrument Panel Wiring Harness)
- B108 CAN Bus Extended High Connection 1 (in Main Wiring Harness)
- B109 CAN Bus Extended Low Connection 1 (in Main Wiring Harness)
- B163 Positive Connection 1 (15) (in Interior Wiring Harness)
- B668 CAN Bus Extended High Connection 2 (in Main Wiring Harness)
- B669 CAN Bus Extended Low Connection 2 (in Main Wiring Harness)
- C12 Positive Connection 1 (in Headlamp Wiring Harness)
- C67 CAN Bus High Connection (in Headlamp Wiring Harness)
- C68 CAN Bus Low Connection (in Headlamp Wiring Harness)
- J6 Positive Connection 2 (30) (in ABS Wiring Harness)

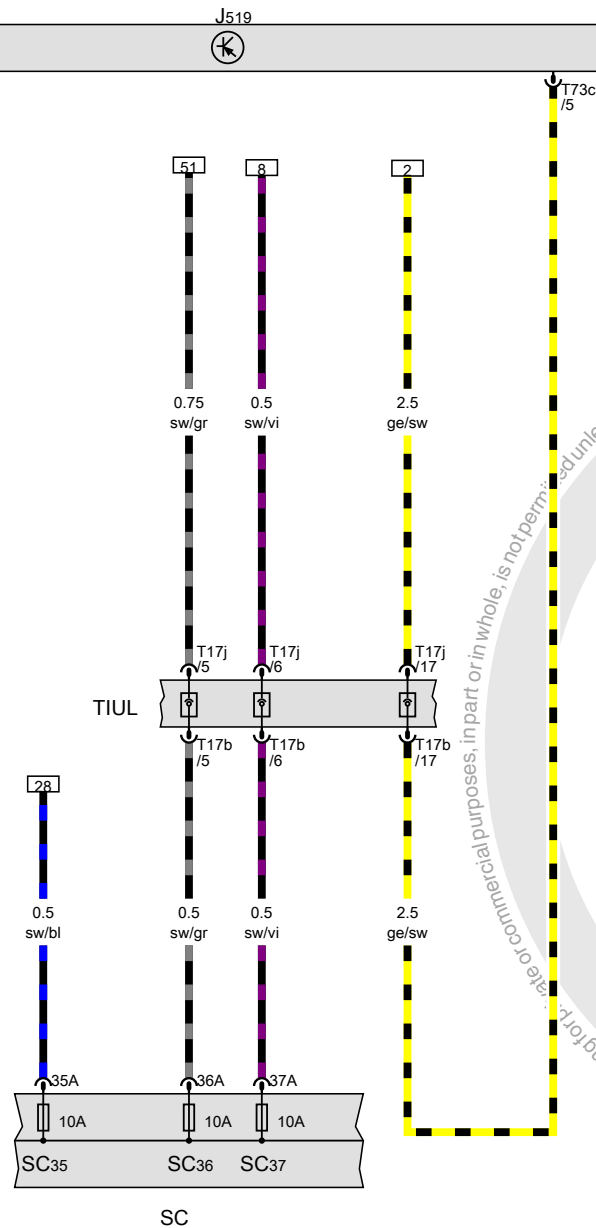
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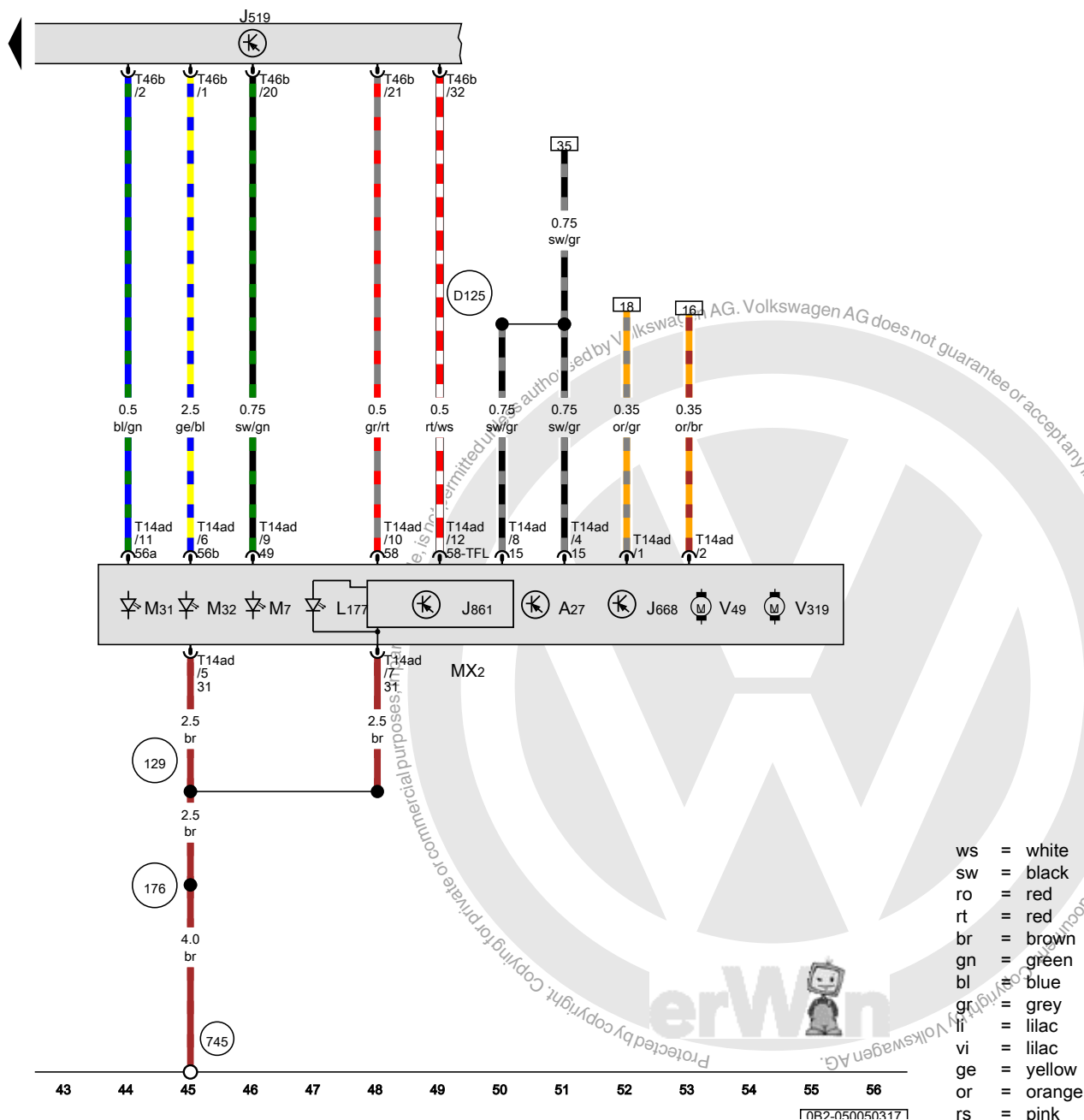
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## Vehicle Electrical System Control Module, Fuse Panel C

- |      |  |
|------|--|
| J519 | Vehicle Electrical System Control Module |
| SC   | Fuse Panel C                             |
| SC35 | Fuse 35 (On Fuse Panel C)                |
| SC36 | Fuse 36 (On Fuse Panel C)                |
| SC37 | Fuse 37 (On Fuse Panel C)                |
| T17b | 17-Pin Connector, Red                    |
| T17j | 17-Pin Connector, Red                    |
| T73c | 73-Pin Connector, Black                  |
| TIUL | Coupling Point in Interior, Bottom Left  |



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Right LED Headlamp Power Output Module 1, Vehicle Electrical System Control Module, Right Headlamp Power Output Module, Right Daytime Running Lamp and Position Lamp Control Module, Right Daytime Running Lamp and Position Lamp LED Module, Right Front Headlamp, Right Front Turn Signal Bulb, Right Low Beam Headlamp Bulb, Right High Beam Headlamp Bulb, Right Headlamp Beam Adjustment Motor, Right Adaptive Cornering Lamp Motor

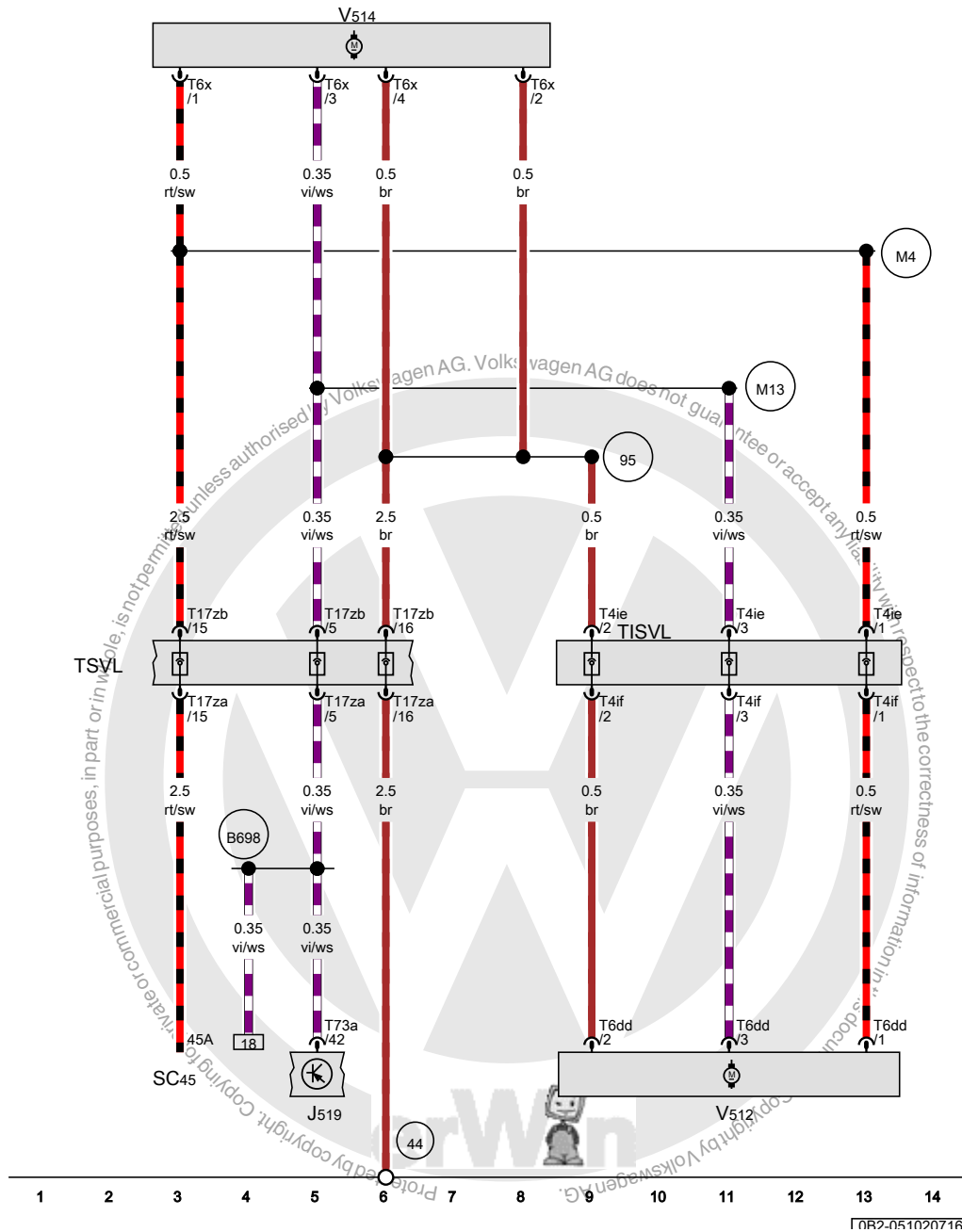
- A27 Right LED Headlamp Power Output Module 1
- J519 Vehicle Electrical System Control Module
- J668 Right Headlamp Power Output Module
- J861 Right Daytime Running Lamp and Position Lamp Control Module
- L177 Right Daytime Running Lamp and Position Lamp LED Module
- MX2 Right Front Headlamp
- M7 Right Front Turn Signal Bulb
- M31 Right Low Beam Headlamp Bulb
- M32 Right High Beam Headlamp Bulb
- T14ad 14-Pin Connector, Black
- T46b 46-Pin Connector, Black
- V49 Right Headlamp Beam Adjustment Motor
- V319 Right Adaptive Cornering Lamp Motor
- 129 Ground Connection (in Dual Tone Horn Wiring Harness)
- 176 Ground Connection (in Right Headlamp Wiring Harness)
- 745 Ground Connection 3 on Right Front Longitudinal Member
- D125 Connection 23 (in Engine/Motor Compartment Wiring Harness)

## Seat Ventilation , CUGA

From July 2016



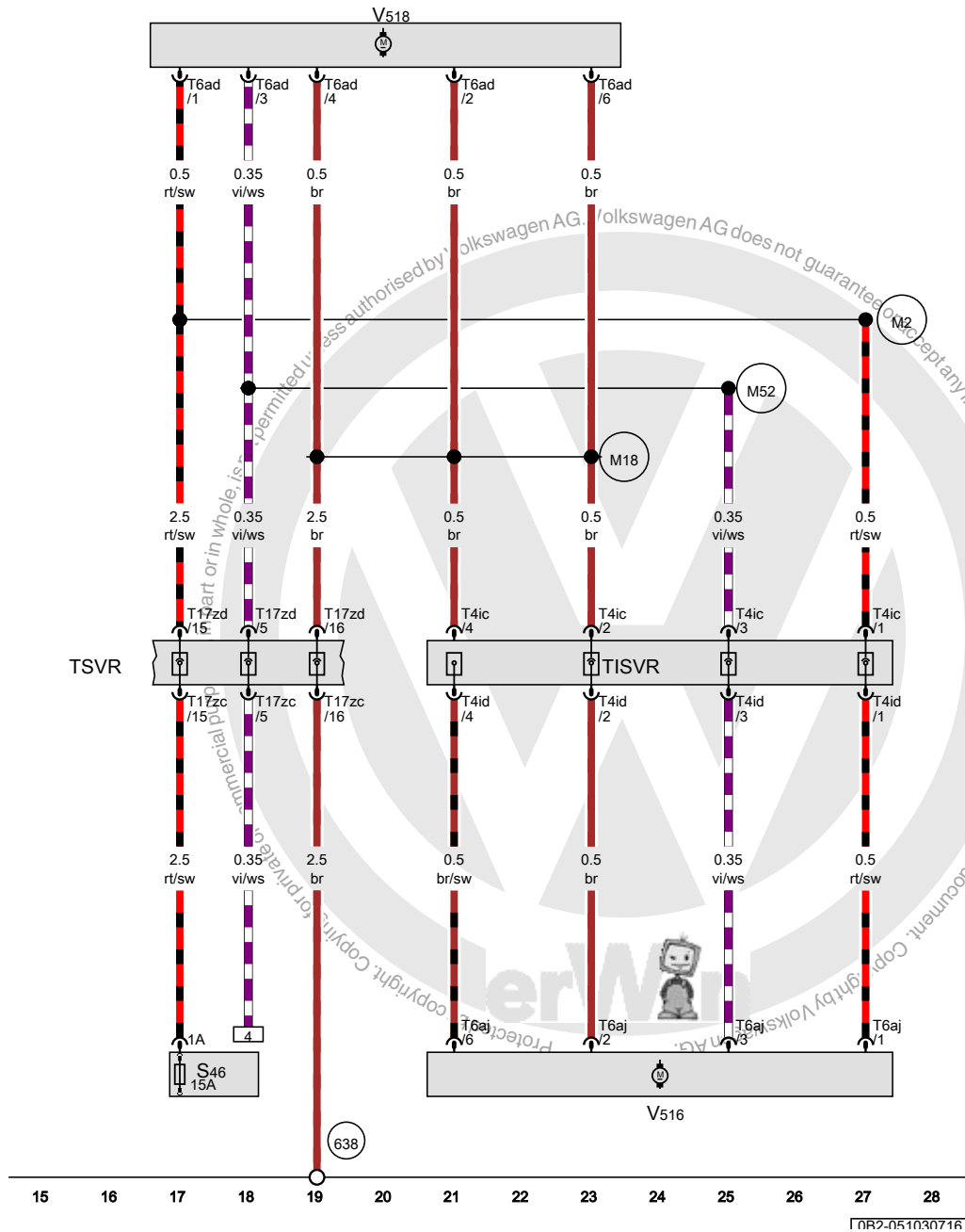
Vehicle Electrical System Control Module, Left Front Seat Backrest Fan 1, Left Front Seat Cushion Fan 1



- J519 Vehicle Electrical System Control Module
- SC45 Fuse 45 (On Fuse Panel C)
- T4ie 4-Pin Connector, White
- T4if 4-Pin Connector, White
- T6dd 6-Pin Connector, Black
- T6x 6-Pin Connector, Black
- T17za 17-Pin Connector, Black
- T17zb 17-Pin Connector, Black
- T73a 73-Pin Connector, Black
- TISVL Coupling Station in Left Front Seat
- TSVL Left Front Seat Coupling Station
- V512 Left Front Seat Backrest Fan 1
- V514 Left Front Seat Cushion Fan 1

- 44 Ground Connection on A-Pillar, Lower Left
- 95 Ground Connection 1 (in Seat Adjustment Wiring Harness)
- B698 LIN Bus Connection 3 (in Main Wiring Harness)
- M4 Positive Connection (30) (in Rear Seat Adjustment Wiring Harness)
- M13 Connection 4 (in Driver Seat Adjustment Wiring Harness)

Front Passenger Power Seat Adjustment Circuit Breaker 1,  
Right Front Seat Backrest Fan 1, Right Front Seat Cushion  
Fan 1



S46 Front Passenger Power Seat Adjustment Circuit Breaker 1

T4ic 4-Pin Connector, White

T4id 4-Pin Connector, White

T6ad 6-Pin Connector, Black

T6aj 6-Pin Connector, Black

T17zc 17-Pin Connector

T17zd 17-Pin Connector

TISVR Coupling Station in Right Front Seat

TSVR Right Front Seat Coupling Station

V516 Right Front Seat Backrest Fan 1

V518 Right Front Seat Cushion Fan 1

638 Ground Connection on Right A-Pillar

M2 Positive Connection 2 (30) (in Seat Adjustment Wiring Harness)

M18 Connection 1 (in Front Passenger Seat Adjustment Wiring Harness)

M52 Connection 2 (in Front Passenger Seat Wiring Harness)

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# Cautions & Warnings

**Please read these WARNINGS and CAUTIONS before proceeding with maintenance and repair work. You must answer that you have read and you understand these WARNINGS and CAUTIONS before you will be allowed to view this information.**

- If you lack the skills, tools and equipment, or a suitable workshop for any procedure described in this manual, we suggest you leave such repairs to an authorized Volkswagen retailer or other qualified shop. We especially urge you to consult an authorized Volkswagen retailer before beginning repairs on any vehicle that may still be covered wholly or in part by any of the extensive warranties issued by Volkswagen.
- Disconnect the battery negative terminal (ground strap) whenever you work on the fuel system or the electrical system. Do not smoke or work near heaters or other fire hazards. Keep an approved fire extinguisher handy.
- Volkswagen is constantly improving its vehicles and sometimes these changes, both in parts and specifications, are made applicable to earlier models. Therefore, part numbers listed in this manual are for reference only. Always check with your authorized Volkswagen retailer parts department for the latest information.
- Any time the battery has been disconnected on an automatic transmission vehicle, it will be necessary to reestablish Transmission Control Module (TCM) basic settings using the VAG 1551 Scan Tool (ST).
- Never work under a lifted vehicle unless it is solidly supported on stands designed for the purpose. Do not support a vehicle on cinder blocks, hollow tiles or other props that may crumble under continuous load. Never work under a vehicle that is supported solely by a jack. Never work under the vehicle while the engine is running.
- For vehicles equipped with an anti-theft radio, be sure of the correct radio activation code before disconnecting the battery or removing the radio. If the wrong code is entered when the power is restored, the radio may lock up and become inoperable, even if the correct code is used in a later attempt.
- If you are going to work under a vehicle on the ground, make sure that the ground is level. Block the wheels to keep the vehicle from rolling. Disconnect the battery negative terminal (ground strap) to prevent others from starting the vehicle while you are under it.
- Do not attempt to work on your vehicle if you do not feel well. You increase the danger of injury to yourself and others if you are tired, upset or have taken medicine or any other substances that may impair you or keep you from being fully alert.
- Never run the engine unless the work area is well ventilated. Carbon monoxide (CO) kills.
- Always observe good workshop practices. Wear goggles when you operate machine tools or work with acid. Wear goggles, gloves and other protective clothing whenever the job requires working with harmful substances.
- Tie long hair behind your head. Do not wear a necktie, a scarf, loose clothing, or a necklace when you work near machine tools or running engines. If your hair, clothing, or jewelry were to get caught in the machinery, severe injury could result.
- Do not re-use any fasteners that are worn or deformed in normal use. Some fasteners are designed to be used only once and are unreliable and may fail if used a second time. This includes, but is not limited to, nuts, bolts, washers, circlips and cotter pins. Always follow the recommendations in this manual - replace these fasteners with new parts where indicated, and any other time it is deemed necessary by inspection.

# Cautions & Warnings

- Illuminate the work area adequately but safely. Use a portable safety light for working inside or under the vehicle. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.
- Friction materials such as brake pads and clutch discs may contain asbestos fibers. Do not create dust by grinding, sanding, or by cleaning with compressed air. Avoid breathing asbestos fibers and asbestos dust. Breathing asbestos can cause serious diseases such as asbestosis or cancer, and may result in death.
- Finger rings should be removed so that they cannot cause electrical shorts, get caught in running machinery, or be crushed by heavy parts.
- Before starting a job, make certain that you have all the necessary tools and parts on hand. Read all the instructions thoroughly; do not attempt shortcuts. Use tools that are appropriate to the work and use only replacement parts meeting Volkswagen specifications. Makeshift tools, parts and procedures will not make good repairs.
- Catch draining fuel, oil or brake fluid in suitable containers. Do not use empty food or beverage containers that might mislead someone into drinking from them. Store flammable fluids away from fire hazards. Wipe up spills at once, but do not store the oily rags, which can ignite and burn spontaneously.
- Use pneumatic and electric tools only to loosen threaded parts and fasteners. Never use these tools to tighten fasteners, especially on light alloy parts. Always use a torque wrench to tighten fasteners to the tightening torque listed.
- Keep sparks, lighted matches, and open flame away from the top of the battery. If escaping hydrogen gas is ignited, it will ignite gas trapped in the cells and cause the battery to explode.
- Be mindful of the environment and ecology. Before you drain the crankcase, find out the proper way to dispose of the oil. Do not pour oil onto the ground, down a drain, or into a stream, pond, or lake. Consult local ordinances that govern the disposal of wastes.
- The air-conditioning (A/C) system is filled with a chemical refrigerant that is hazardous. The A/C system should be serviced only by trained automotive service technicians using approved refrigerant recovery/recycling equipment, trained in related safety precautions, and familiar with regulations governing the discharging and disposal of automotive chemical refrigerants.
- Before doing any electrical welding on vehicles equipped with anti-lock brakes (ABS), disconnect the battery negative terminal (ground strap) and the ABS control module connector.
- Do not expose any part of the A/C system to high temperatures such as open flame. Excessive heat will increase system pressure and may cause the system to burst.
- When boost-charging the battery, first remove the fuses for the Engine Control Module (ECM), the Transmission Control Module (TCM), the ABS control module, and the trip computer. In cases where one or more of these components is not separately fused, disconnect the control module connector(s).
- Some of the vehicles covered by this manual are equipped with a supplemental restraint system (SRS), that automatically deploys an airbag in the event of a frontal impact. The airbag is operated by an explosive device. Handled improperly or without adequate safeguards, it can be accidentally activated and cause serious personal injury. To guard against personal injury or airbag system failure, only trained Volkswagen Service technicians should test, disassemble or service the airbag system.



## Cautions & Warnings

- Do not quick-charge the battery (for boost starting) for longer than one minute, and do not exceed 16.5 volts at the battery with the boosting cables attached. Wait at least one minute before boosting the battery a second time.
- Never use a test light to conduct electrical tests of the airbag system. The system must only be tested by trained Volkswagen Service technicians using the VAG 1551 Scan Tool (ST) or an approved equivalent. The airbag unit must never be electrically tested while it is not installed in the vehicle.
- Some aerosol tire inflators are highly flammable. Be extremely cautious when repairing a tire that may have been inflated using an aerosol tire inflator. Keep sparks, open flame or other sources of ignition away from the tire repair area. Inflate and deflate the tire at least four times before breaking the bead from the rim. Completely remove the tire from the rim before attempting any repair.
- When driving or riding in an airbag-equipped vehicle, never hold test equipment in your hands or lap while the vehicle is in motion. Objects between you and the airbag can increase the risk of injury in an accident.

**I have read and I understand these Cautions and Warnings.**