

# Passat

## Current Flow Diagram

**No. 46 / 1**

**Edition 07.2008**

### Dual clutch gearbox 02E

From May 2005

#### Notes:

For information concerning

- ⊗ Relay and fuse assignment
- ⊗ Multi-pin connectors
- ⊗ Control units and relays
- ⊗ Earth connections

→ Overview of Fitting Locations!

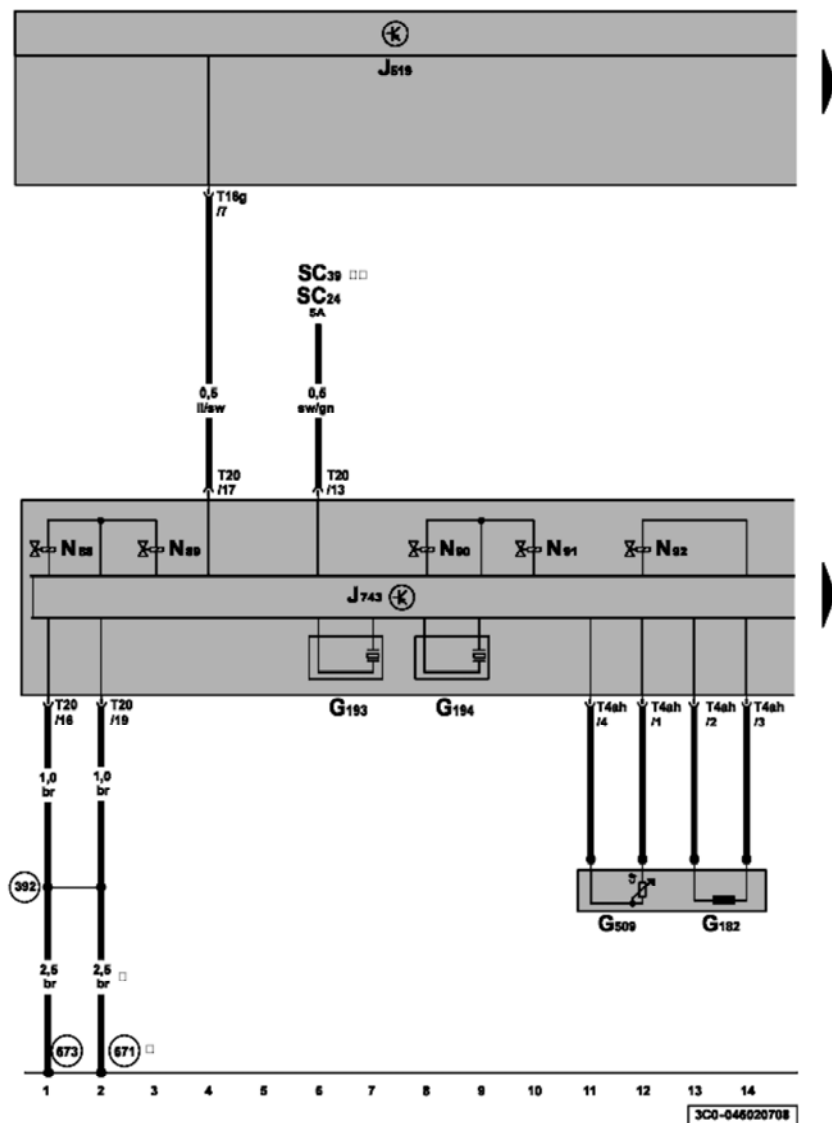
For information concerning

- ⊗ Fault Finding Programs
- Guided Fault Finding

# Passat

## Current Flow Diagram

### No. 46 / 2



#### Mechatronic unit for dual clutch gearbox, gearbox input speed sender, clutch temperature sender

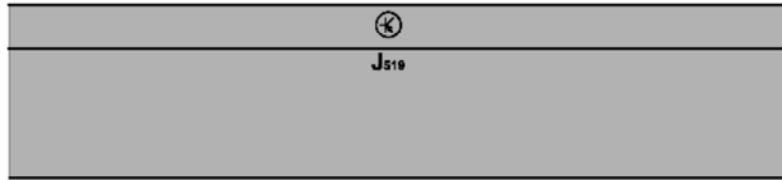
- G182 - Gearbox input speed sender
- G193 - Automatic gearbox hydraulic pressure sender 1
- G194 - Automatic gearbox hydraulic pressure sender 2
- G509 - Clutch temperature sender
- J519 - Onboard supply control unit
- J743 - Mechatronics for dual clutch gearbox
- N88 - Solenoid valve 1
- N89 - Solenoid valve 2
- N90 - Solenoid valve 3
- N91 - Solenoid valve 4
- N92 - Solenoid valve 5
- SC24 - Fuse 24 on fuse holder C
- SC39 - Fuse 39 on fuse holder C
- T4ah - 4-pin connector
- T16g - 16-pin connector, black
- T20 - 20-pin connector
- 392 - Earth connection 27, in main wiring harness
- 671 - Earth point 1, on front of left longitudinal member
- 673 - Earth point 3, on front of left longitudinal member
- \* - Applicable from November 2006 to April 2008
- \*\* - Applicable from May 2008

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

# Passat

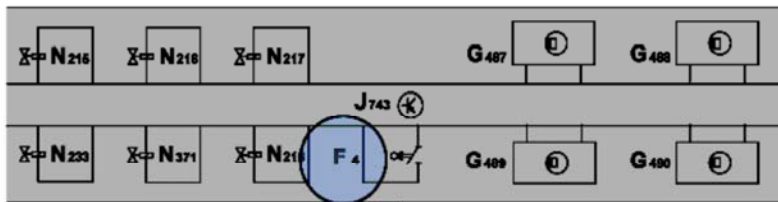
## Current Flow Diagram

### No. 46 / 3



**Mechatronic unit for dual clutch gearbox, reversing light switch, gear selector movement senders 1-4, automatic gearbox pressure regulating valves 1-6**

- F4 - Reversing light switch
- G487 - Gear selector movement sensor 1
- G488 - Gear selector movement sensor 2
- G489 - Gear selector movement sensor 3
- G490 - Gear selector movement sensor 4
- J519 - Onboard supply control unit
- J743 - Mechatronics for dual clutch gearbox
- N215 - Automatic gearbox pressure regulating valve 1
- N216 - Automatic gearbox pressure regulating valve 2
- N217 - Automatic gearbox pressure regulating valve 3
- N218 - Automatic gearbox pressure regulating valve 4
- N233 - Automatic gearbox pressure regulating valve 5
- N371 - Automatic gearbox pressure regulating valve 6

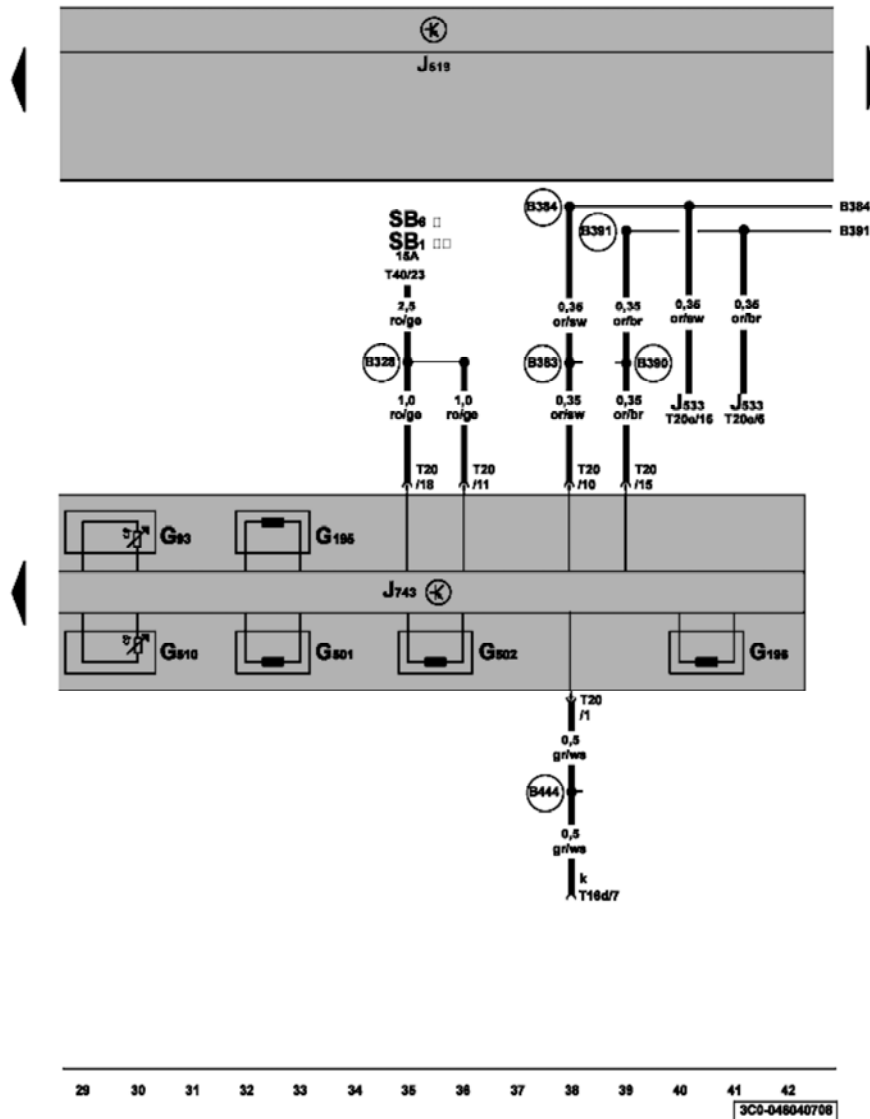


- ws = white
- sw = black
- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

# Passat

## Current Flow Diagram

### No. 46 / 4



**Mechatronic unit for dual clutch gearbox, gearbox oil temperature sender, temperature sender in control unit, self-diagnosis connection, data bus diagnostic interface**

- G93 - Gearbox oil temperature sender
- G195 - Gearbox output speed sender
- G196 - Gearbox output speed sender 2
- G501 - Input shaft speed sender 1
- G502 - Input shaft speed sender 2
- G510 - Temperature sender in control unit
- J519 - Onboard supply control unit
- J533 - Data bus diagnostic interface
- J743 - Mechatronics for dual clutch gearbox
- SB1 - Fuse 1 on fuse holder B
- SB6 - Fuse 6 on fuse holder B
- T16d - 16-pin connector, self-diagnosis connection
- T20 - 20-pin connector
- T20e - 20-pin connector
- T40 - 40-pin connector

- B328 - Connection 14 (30a), in main wiring harness
- B383 - Connection 1 (powertrain CAN bus, high), in main wiring harness
- B384 - Connection 2 (powertrain CAN bus, high), in main wiring harness
- B390 - Connection 1 (powertrain CAN bus, low), in main wiring harness
- B391 - Connection 2 (powertrain CAN bus, low), in main wiring harness
- B444 - Connection 1 (diagnosis), in main wiring harness

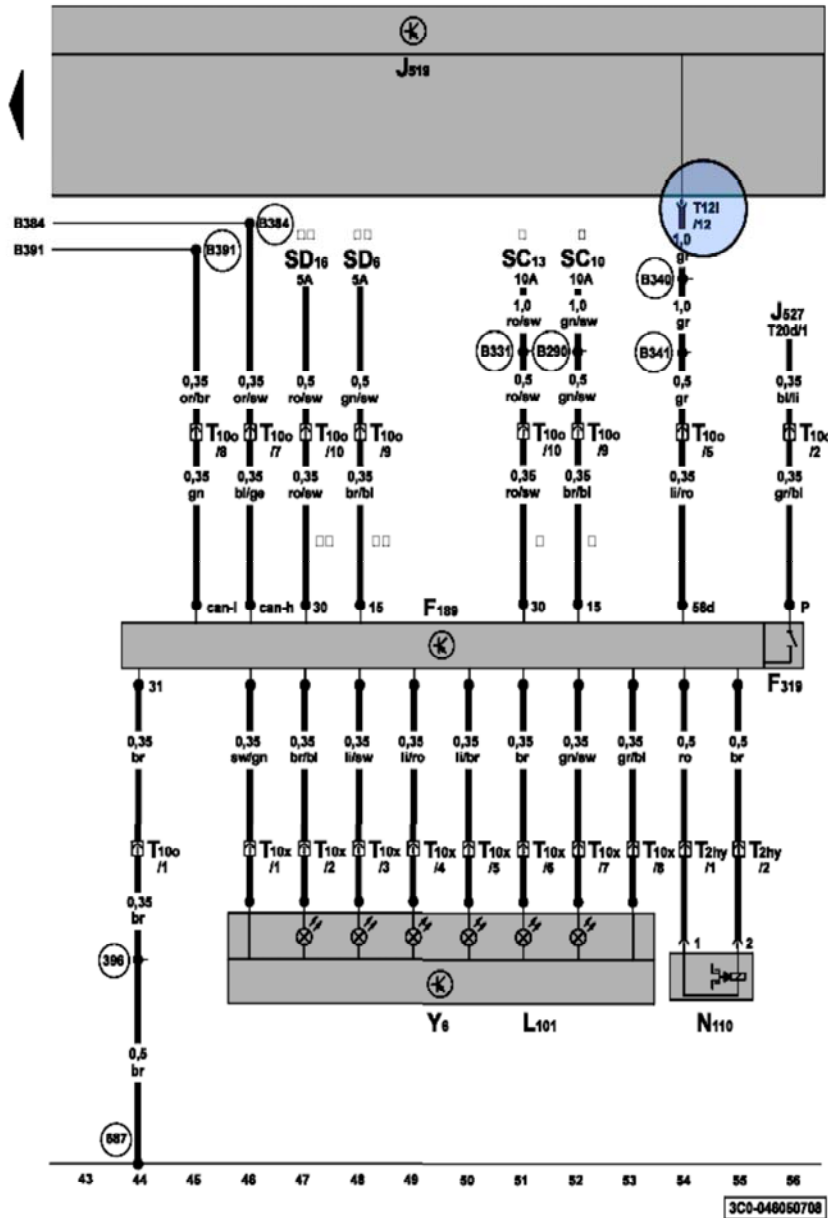
- ws = white
- sw = black
- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

- \* - Only models with E-box low
- \*\* - Only models with E-box high

# Passat

## Current Flow Diagram

### No. 46 / 5



**Tiptronic switch, selector lever lock solenoid, selector lever position display**

- F189 - Tiptronic switch
- F319 - Selector lever locked in position P switch
- J519 - Onboard supply control unit
- J527 - Steering column electronics control unit
- L101 - Selector lever display illumination bulb
- N110 - Selector lever lock solenoid
- SC10 - Fuse 10 on fuse holder C
- SC13 - Fuse 13 on fuse holder C
- SD6 - Fuse 6 on fuse holder D
- SD16 - Fuse 16 on fuse holder D
- T2hy - 2-pin connector
- T10o - 10-pin connector, on gearbox
- T10x - 10-pin connector, black, near selector lever
- T12i - 12-pin connector
- T20d - 20-pin connector
- Y6 - Selector lever position display
- 396 - Earth connection 31, in main wiring harness
- 687 - Earth point 1, on centre tunnel
- B290 - Connection 14 (15a), in main wiring harness
- B331 - Connection 17 (30a), in main wiring harness
- B340 - Connection 1 (58d), in main wiring harness
- B341 - Connection 2 (58d), in main wiring harness
- B384 - Connection 2 (powertrain CAN bus, high), in main wiring harness
- B391 - Connection 2 (powertrain CAN bus, low), in main wiring harness
- \* - Applicable from May 2008
- \*\* - Applicable to April 2008

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