

Golf/Bora

Current Flow Diagram

No. 112 / 1

Edition 01.2006

Double clutch gearbox 02E (DSG)

- 3.2 I/177 kW Motronic, engine code BFH
from June 2003

Notes:

For information concerning

- ⊗ Position of relays and fuses
- ⊗ Multi-pin connections
- ⊗ Control units and relays
- ⊗ Earth connections

→ List of Fitting Locations!

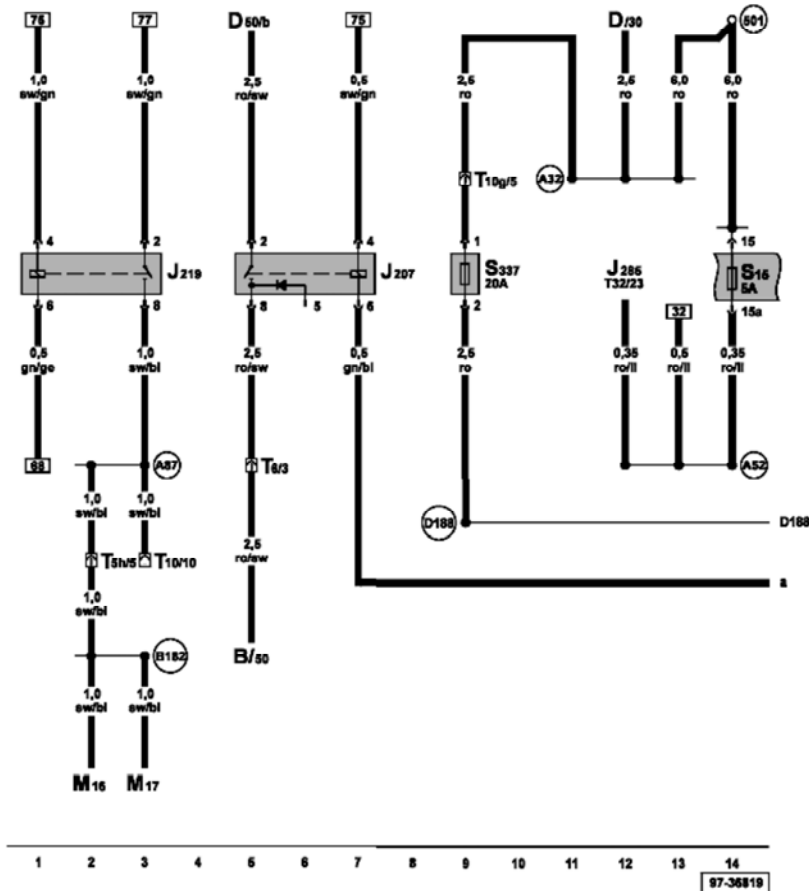
For information concerning

- ⊗ Fault Finding Programs
- guided fault finding

Golf/Bora

Current Flow Diagram

No. 112 / 2



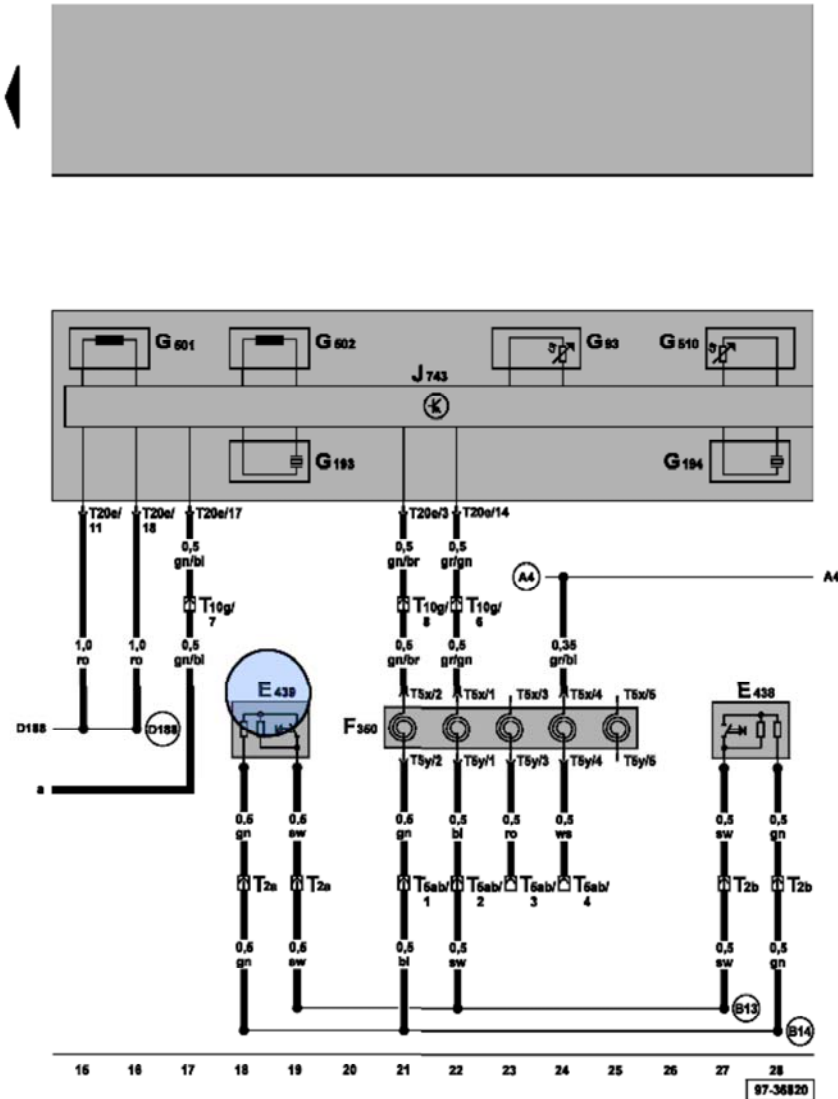
ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 ge = yellow
 or = orange
 rs = pink

- Starter motor relay, reversing light relay**
- B - Starter
 - D - Ignition/starter switch
 - J207 - Starter motor relay
 - J219 - Reversing light relay
 - J285 - Control unit in dash panel insert
 - M16 - Left reversing light bulb
 - M17 - Right reversing light bulb
 - S15 - Fuse 15 in fuse holder
 - S337 - Mechatronic unit for direct shift gearbox, in protective housing on left in engine compartment
 - T5h - 5-pin connector, near lower left A-pillar, entwined in wiring harness
 - T6 - 6-pin connector, brown, in connector protective housing, on left in plenum chamber
 - T10 - 10-pin connector, orange, in connector protective housing, on left in plenum chamber
 - T10g - 10-pin connector, grey, in connector protective housing, on left in plenum chamber
 - T32 - 32-pin connector, blue
 - 501 - Screw connection 2 (30), on relay plate
 - A32 - Positive connection (30), in dash panel wiring harness
 - A52 - Positive connection (30a), in dash panel wiring harness
 - A87 - Connection (RL), in dash panel wiring harness
 - B182 - Connection (RL), in interior wiring harness
 - D188 - Positive connection 3 (30a), in engine compartment wiring harness

Golf/Bora

Current Flow Diagram

No. 112 / 3



Mechatronic unit for double clutch gearbox, input shaft speed sender, gearbox oil temperature sender, temperature sender in control unit, hydraulic pressure sender, Tiptronic switch in steering wheel

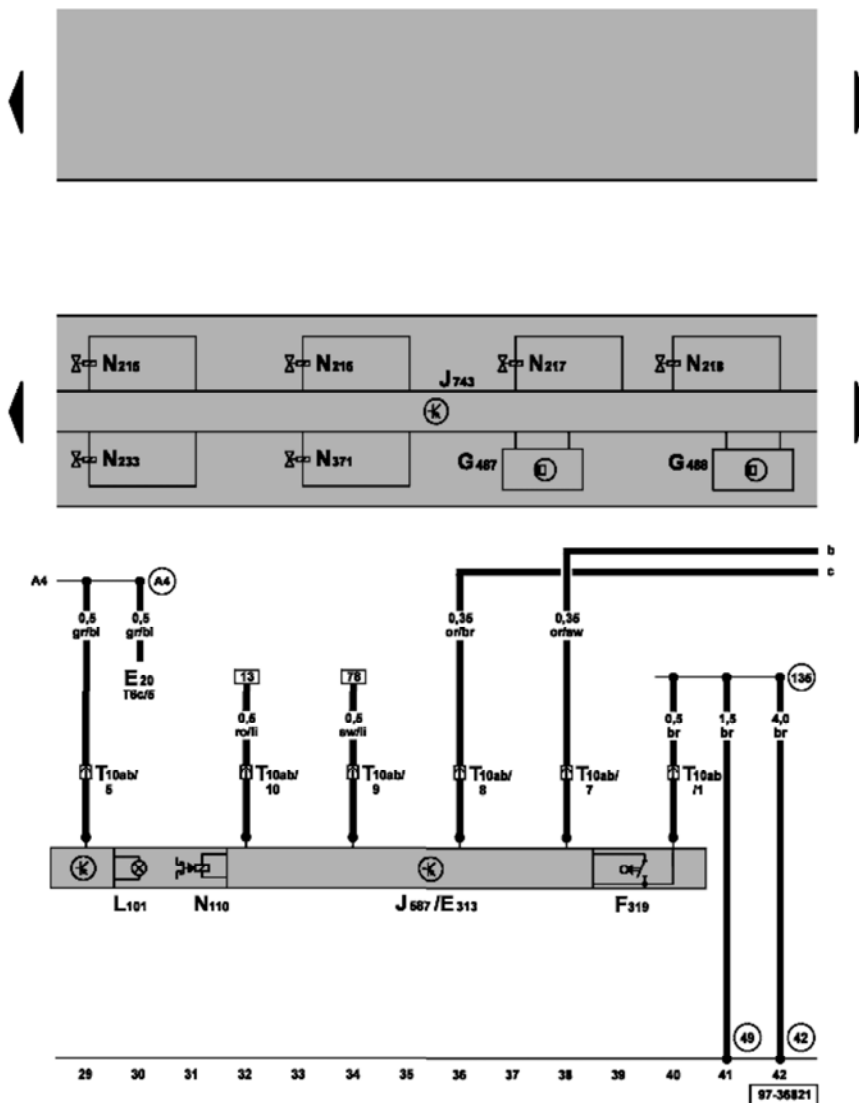
- E438 - Tiptronic switch in steering wheel to shift up
- E439 - Tiptronic switch in steering wheel to shift down
- F350 - Coil connector
- G93 - Gearbox oil temperature sender
- G193 - Automatic gearbox hydraulic pressure sender 1
- G194 - Automatic gearbox hydraulic pressure sender 2
- G501 - Input shaft speed sender 1
- G502 - Input shaft speed sender 2
- G510 - Temperature sender in control unit
- J743 - Mechatronic unit for double clutch gearbox, in gearbox
- T2a - 2-pin connector, in the steering wheel
- T2b - 2-pin connector, in the steering wheel
- T5x - 5-pin connector
- T5y - 5-pin connector
- T5ab - 5-pin connector, in the steering wheel
- T10g - 10-pin connector, grey, in connector protective housing, on left in plenum chamber
- T20e - 20-pin connector
- A4 - Positive connection (58b), in dash panel wiring harness
- B13 - Connection 1 (15), in steering wheel wiring harness
- B14 - Connection 2 (15), in steering wheel wiring harness
- D188 - Positive connection 3 (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

Golf/Bora

Current Flow Diagram

No. 112 / 4



Mechatronics for direct shift gearbox, selector lever lock solenoid, selector lever sensors control unit, selector lever position display, gear selector movement sensor

- E20 - Illumination regulators, switches, instruments
- E313 - Selector lever
- F319 - Selector lever locked in position P switch
- G487 - Gear selector movement sensor 1
- G488 - Gear selector movement sensor 2
- J587 - Selector lever sensors control unit
- J743 - Mechatronic unit for double clutch gearbox, in gearbox
- L101 - Selector lever display illumination bulb
- N110 - Selector lever lock solenoid
- 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
- T6c - 6-pin connector
- T10ab - 10-pin connector, under selector lever cover

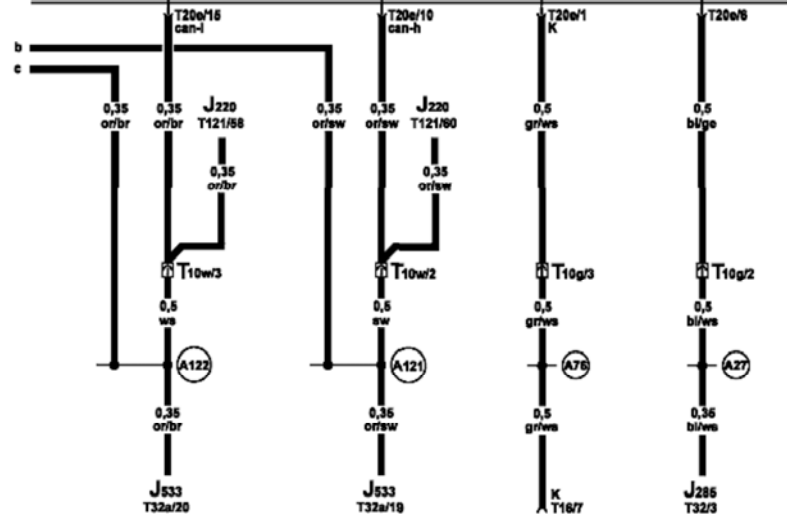
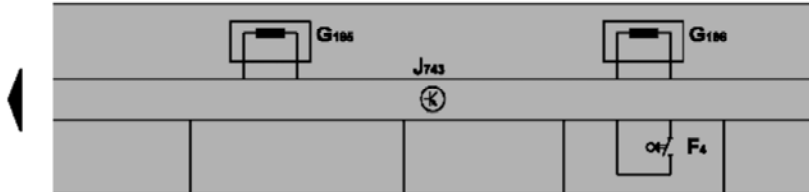
- ws = white
- sw = black
- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

- 42 - Earth point, next to steering column
- 49 - Earth point, on steering column
- 135 - Earth connection 2, in dash panel wiring harness
- A4 - Positive connection (58b), in dash panel wiring harness

Golf/Bora

Current Flow Diagram

No. 112 / 5



43 44 46 46 47 48 49 50 61 52 53 54 56 58
 1J1-112050108



Mechatronic unit for double clutch gearbox, gearbox output speed sender, reversing light switch

- F4 - Reversing light switch
- G195 - Gearbox output speed sender
- G196 - Gearbox output speed sender 2
- J220 - Motronic control unit
- J285 - Control unit in dash panel insert
- J533 - Data bus diagnostic interface
- J743 - Mechatronic unit for double clutch gearbox, in gearbox
- T10g - 10-pin connector, grey, in connector protective housing, on left in plenum chamber
- T10w - 10-pin connector, white, in connector protective housing, on left in plenum chamber
- T16 - 16-pin connector, in centre dash panel, self-diagnosis connection
- T20e - 20-pin connector
- T32 - 32-pin connector, blue
- T32a - 32-pin connector, green
- T121 - 121-pin connector
- A27 - Connection (speed signal), in dash panel wiring harness
- A76 - Connection (diagnosis wire K), in dash panel wiring harness
- A121 - Connection (high bus), in dash panel wiring harness
- A122 - Connection (low bus), 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

Golf/Bora

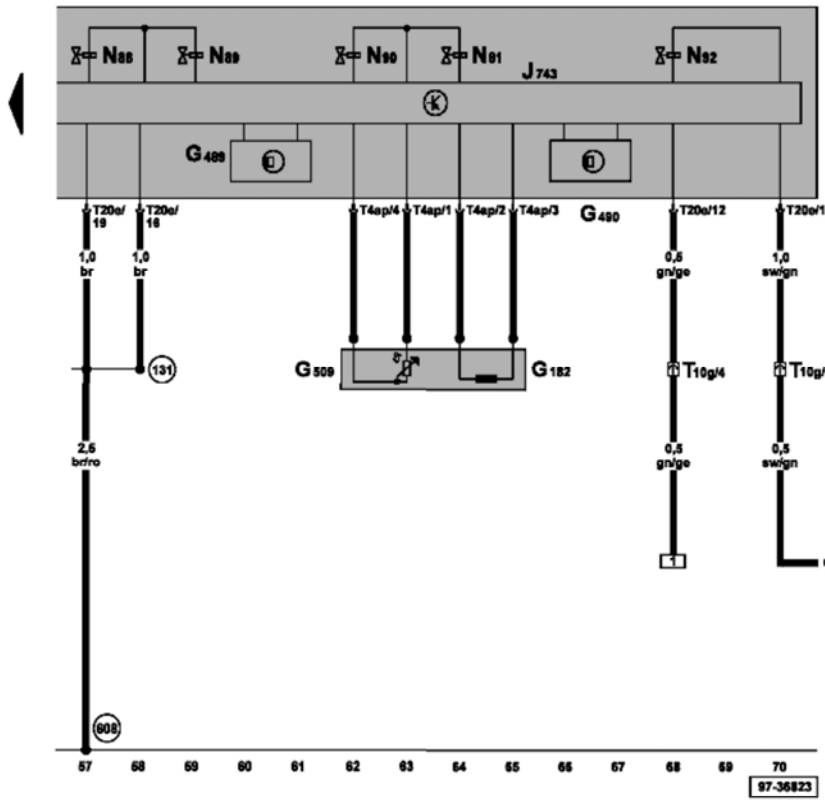
Current Flow Diagram

No. 112 / 6



Mechatronic unit for double clutch gearbox, gear selector movement sensor, solenoid valves, gearbox input speed sender, clutch temperature sender

- G182 - Gearbox input speed sender
- G489 - Gear selector movement sensor 3
- G490 - Gear selector movement sensor 4
- G509 - Clutch temperature sender
- J743 - Mechatronic unit for double clutch gearbox, in gearbox
- N88 - Solenoid valve 1
- N89 - Solenoid valve 2
- N90 - Solenoid valve 3
- N91 - Solenoid valve 4
- N92 - Solenoid valve 5
- T4ap - 4-pin connector
- T10g - 10-pin connector, grey, in connector protective housing, on left in plenum chamber
- T20e - 20-pin connector
- 131 - Earth connection 2, in engine compartment wiring harness
- 608 - Earth point, in centre of plenum chamber

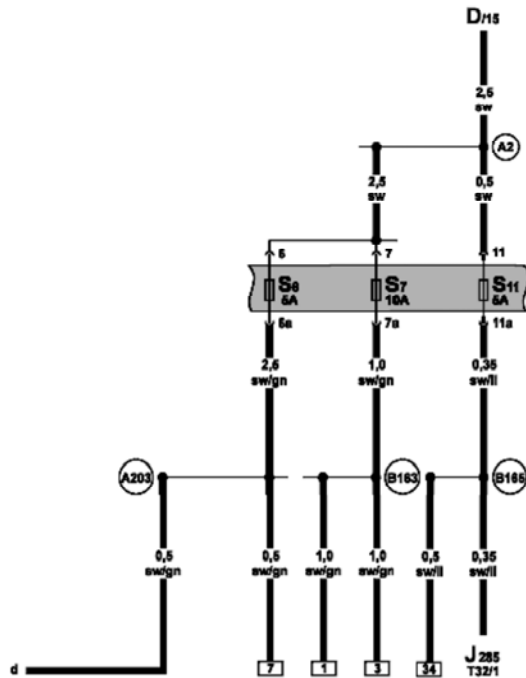


- ws = white
- sw = black
- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

Golf/Bora

Current Flow Diagram

No. 112 / 7



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

Fuse locations

- D - Ignition/starter switch
- J285 - Control unit in dash panel insert
- S5 - Fuse 5 in fuse holder
- S6 - Fuse 6 in fuse holder
- S11 - Fuse 11 in fuse holder
- T32 - 32-pin connector, blue
- A2 - Positive connection (15), in dash panel wiring harness
- A203 - Positive connection 3 (15a), in dash panel wiring harness
- B163 - Positive connection 1 (15), in interior wiring harness
- B165 - Positive connection 2 (15), in interior wiring harness