

A.G. BLOCK LTD.

**SUPPLIERS TO TRAINING ESTABLISHMENTS
& TECHNICAL COLLEGES**

SEAT IBIZA 1.9 TDI PD

SERIAL No: 1901

**AUY ENGINE CODE
YR.2000**

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BEFORE "START - UP" :-

Check:-

- 1) The Coolant Level in Reservoir is correct.
- 2) All Hose connections for leakage etc.
- 3) That all electrical connections are in place and secure.
- 4) That there is sufficient Fuel in the Tank.
- 5) That the Oil Level in Sump is correct.
- 6) That all Guards are in position and secure.
- 7) That the Exhaust Pipe vents to external atmosphere.
- 8) That the Battery is fully charged **, with connections secure and clean.
(* it is essential that the battery being used is maintained in good condition, with a full charge at all times to ensure efficient operation of the engine and its electronic system)
- 9) That all Fault Switches are in the "OFF" position.
- 10) That the Inertia Switch (if fitted), is depressed into the "closed circuit" position.

"START - UP" PROCEDURE:-

- 1) Switch "ON" Battery Isolator Switch (positioned local to battery).
- 2) Put Throttle Lever into the "IDLE" position.
- 3) Switch on the Ignition and wait for Glow-Plug light to disappear (if applicable) .
- 4) Turn Key to "START" the engine.

The engine is now operational for training purposes.

IMPORTANT NOTE:-

In some cases the Ignition Key (and spare Key) supplied with in particular engines have been coded accordingly with the electronic system installed.

The coded electronic chips located in the Keys must not be removed, changed or tampered with. To do so will result in the failure of the engine electronic system.

Cautionary Notes (Electronic Control Unit):-

- 1) Never disconnect any connection the ignition switched "On".**
- 2) Never flash wires to "earth/ground" to check for a live supply.**
- 3) Do not open circuit HT Leads – use correct HT Lead spark plug adapter. (Where applicable)**
- 4) Avoid "shorting" components connected to the ECU.**
- 5) Avoid using battery chargers to operate the board.**
- 6) Never probe with bulb test lamps.**
- 7) Avoid spreading the ECU connectors when testing.**
- 8) Do not expose the ECU to extreme high temperatures.**
- 9) Keep water away from ECU sensors and actuators.**
- 10) Never instigate an OHMS test with the ECU connected.**
- 11) Only substitute the ECU when all other components have been tested and passed.**

VW SEAT 1.9 TDI PD

FUSE LIST:

Fuse List:

1	Ignition Switch	
2	Engine Relay	25 amp
3	Fuel Pump	20 amp
4	Cooling Fan	10 amp
5	Diagnostic & Dash	40 amp
6	ECU	7.5 amp
7	Power Supply Unit	7.5 amp
8	Power Supply Unit	10 amp
9	Relays	15 amp
10	Sensors & Solenoids	10 amp
11	ECU	15 amp
12	ABS	5 amp
13		10 amp
14	ABS	7.5 amp
15	Fuel Cooling Fan	15 amp

RELAYS:

(Left to Right)

- 1 Engine Voltage supply relay
- 2 Fuel Pump
- 3 Cooling Fan
- 4 Glow Plugs

ELECTRICAL CIRCUIT DIAGRAMS
(ENGINE ECU)

PLEASE NOTE STORED CODES.

423B BRAKE LIGHT SWITCH IMPROBABLE

4650 UNKNOWN FAULT

**467B CAN INTERFACETRANSMISSION CONTROL
NO MESSAGE FROM AC**

**467C CAN INTERFACE TRANSMISSION CONTROL
NO MESSAGE FROM AIR BAG**

DUE TO MISSING VEHICLE SYSTEMS

Golf/Bora

Current Flow Diagram

No. 11 / 1

Edition 08.2001

1.9 I/85 kW Turbo diesel engine with unit injectors, engine codes AJM

From May 1999

1.9 I/85 kW Turbo diesel engine with unit injectors, engine codes AUJ

From July 2000

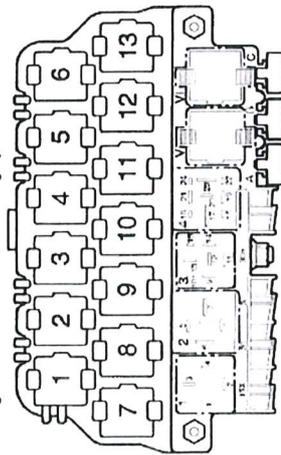
1.9 I/74 kW Turbo diesel engine with unit injectors, engine codes ATD

From September 2000

For alternatives to relay and fuse positions as well as multi-pin connector wiring - see "Fitting locations" section.
 Relay locations on the 13 position additional relay carrier above the relay plate:

- 10 - Fuel pump relay (167)
- 12 - Terminal 30 voltage supply relay (109)

Relay locations on relay plate:



97-14163

- 2 - X contact relief relay (100)
- 4 - Glow plug relay (103)



Note:

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

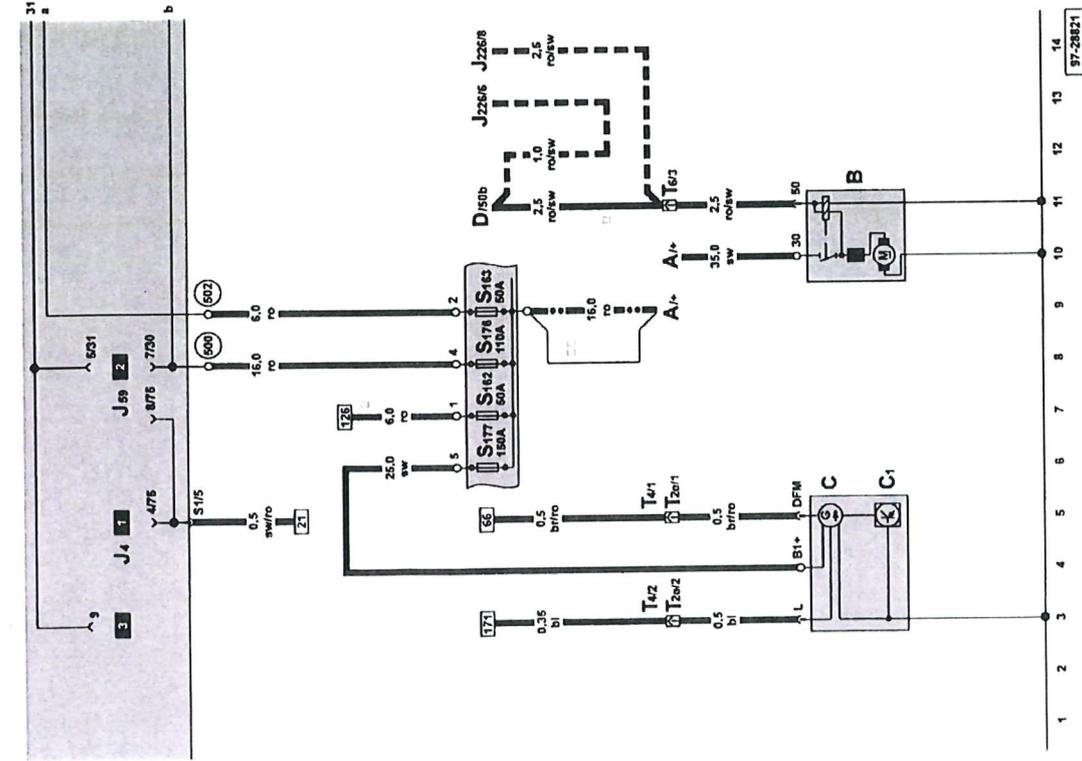
Fuse colours

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

Golf/Bora

Current Flow Diagram

No. 11 / 2



- Alternator, starter**
- A - Battery
 - B - Starter
 - C - Alternator
 - C1 - Voltage regulator
 - D - Ignition/starter switch
 - J4 - Dual tone horn relay
 - J59 - X contact relief relay
 - J226 - Starter inhibitor and reversing light relay, on the 13 position additional relay carrier
 - S162 - Fuse -1- (30), in fuse box/battery
 - S163 - Fuse -2- (30), in fuse box/battery
 - S176 - Fuse -4- (30), in fuse box/battery
 - S177 - Fuse -5- (30), in fuse box/battery
 - T2e - 2-pin connector, near starter (only models without air conditioner)
 - T4 - 4-pin connector, near starter (only models with air conditioner)
 - T6 - 6-pin connector, brown, in control unit protective housing, in plenum chamber, left
 - 500 - Screw connection -1- (30), on relay plate
 - 502 - Screw connection -1- (30a), on relay plate
 - * - Only models with manual gearbox
 - *- - From September 2000
 - ** - Up to August 2000
 - - Only models with automatic gearbox

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

97-28821

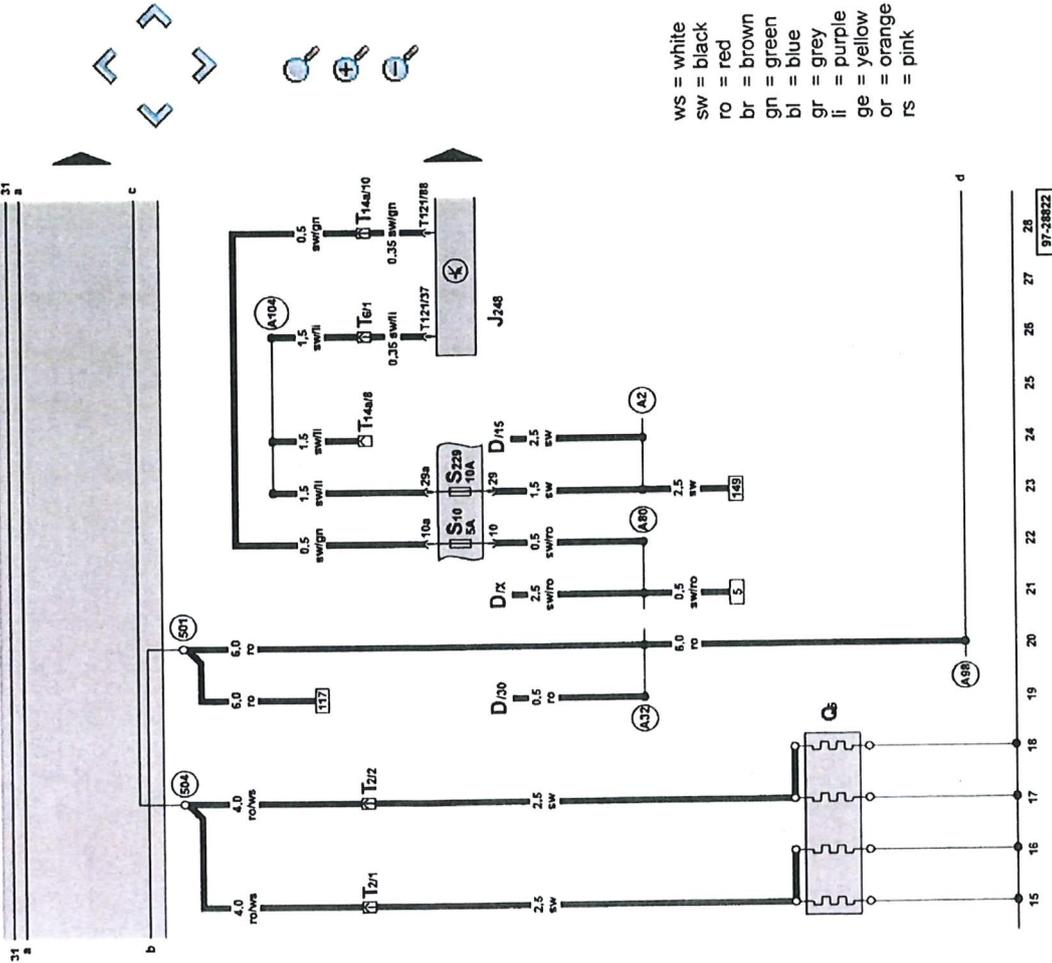
Golf/Bora

Current Flow Diagram

No. 11 / 3

Diesel direct injection system control unit, glow plugs - engine

- D - Ignition/starter switch
- J248 - Diesel direct injection system control unit, in plenum chamber, centre
- Q6 - Glow plugs - engine
- S10 - Fuse in fuse box
- S229 - Fuse in fuse box
- T2 - 2-pin connector, in cable channel left in engine compartment
- T6 - 6-pin connector, brown, in control unit protective housing, in plenum chamber, left
- T14a - 14-pin connector, in cable channel left in engine compartment
- T121 - 121-pin connector
- 501 - Screw connection -2- (30), on relay plate
- 504 - Screw connection (87F), on relay plate
- A2 - Positive (+) connection (15), in dash panel wiring harness
- A32 - Positive (+) connection (30), in dash panel wiring harness
- A80 - Connection -1- (X), in dash panel wiring harness
- A98 - Positive (+) connection -4- (30), in dash panel wiring harness
- A104 - Positive (+) connection -2- (15), in dash panel wiring harness



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97-2822

Golf/Bora

Current Flow Diagram

No. 11 / 4

Diesel direct injection system control unit, glow plug relay, kick-down switch, engine speed sender, idling switch, accelerator pedal position sender, terminal 30 voltage supply relay

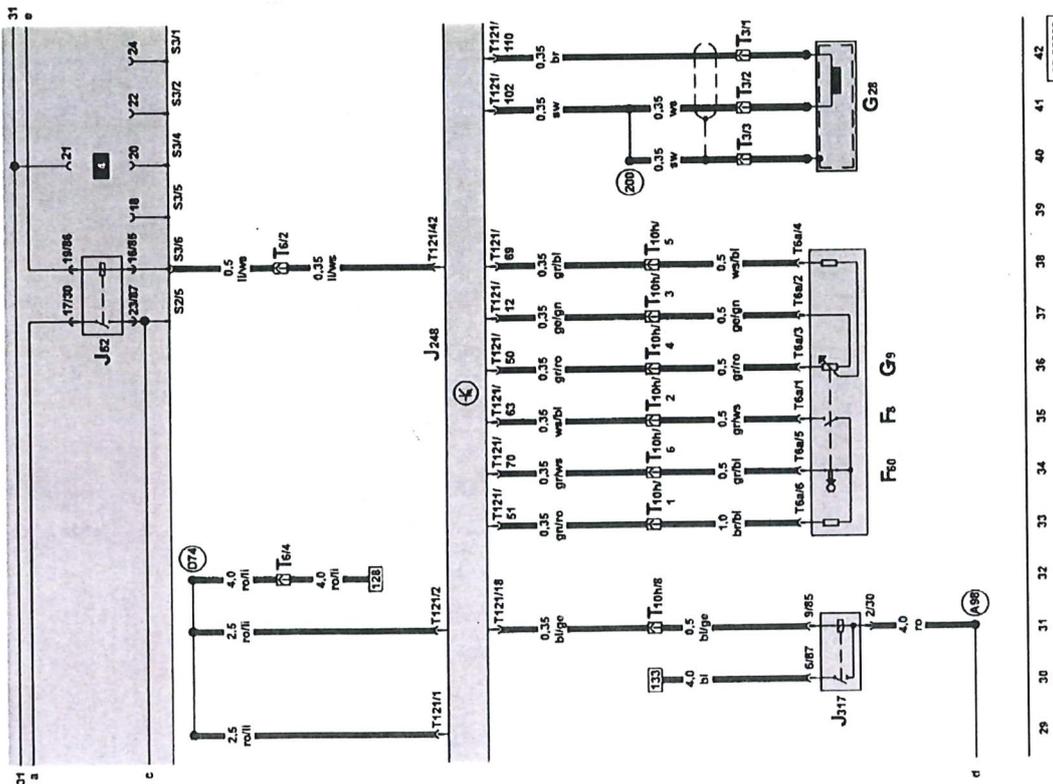
- F8 - Kick-down switch
- F60 - Idling switch
- G28 - Engine speed sender
- G79 - Accelerator pedal position sender
- J52 - Glow plug relay
- J248 - Diesel direct injection system control unit, in plenum chamber, centre

- J317 - Terminal 30 voltage supply relay, above the central electrics
- T3 - 3-pin connector, on engine front
- T6 - 6-pin connector, brown, in control unit protective housing, in plenum chamber, left
- T6a - 6-pin connector
- T10h - 10-pin connector, blue, in control unit protective housing, in plenum chamber, left
- T121 - 121-pin connector

- 200 - Earth connection (screening), in engine compartment wiring harness

- A98 - Positive (+) connection -4- (30), in dash panel wiring harness

- D74 - Connection (86), in engine compartment wiring harness



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Golf/Bora

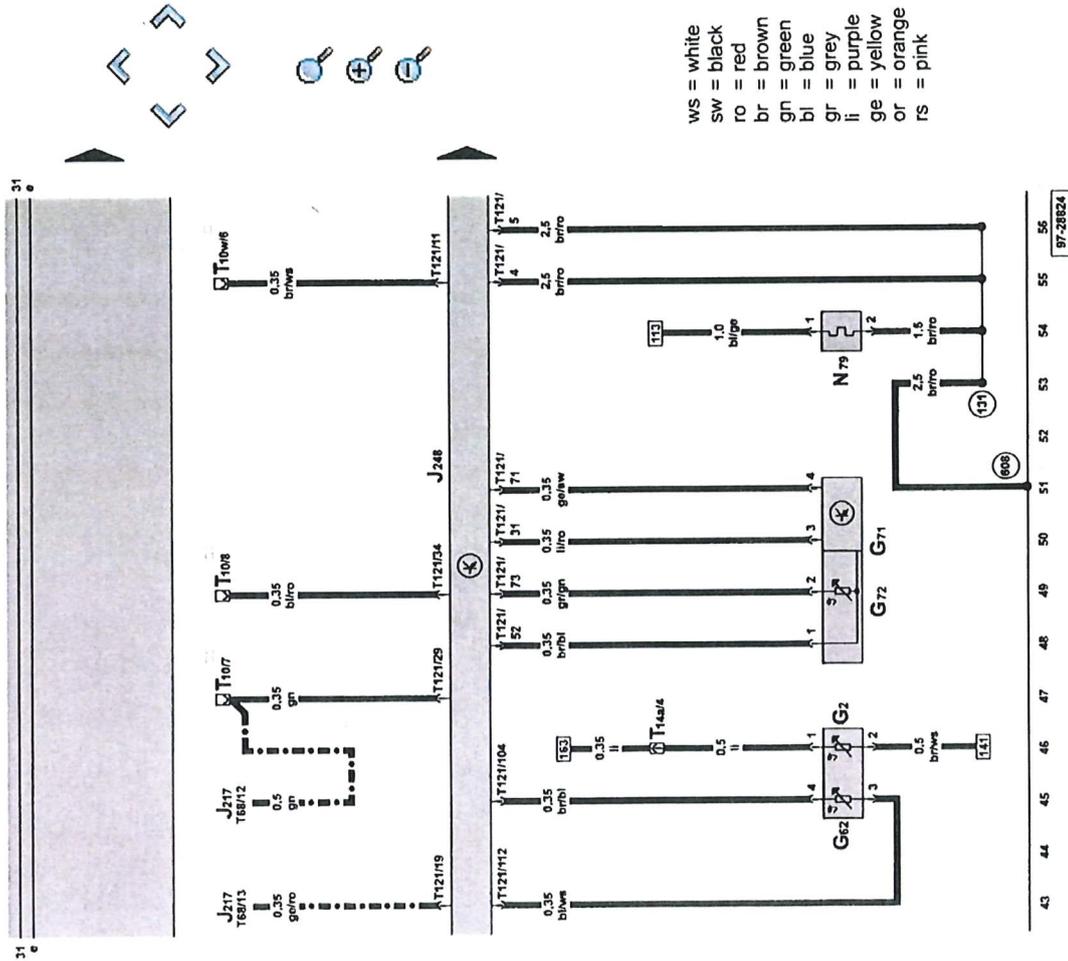
Current Flow Diagram

No. 11/5

Diesel direct injection system control unit, coolant temperature sender, intake manifold pressure sender, intake manifold temperature sender, heater element (crankcase breather)

- G2 - Coolant temperature sender
- G62 - Coolant temperature sender
- G71 - Intake manifold pressure sender
- G72 - Intake manifold temperature sender
- J217 - Automatic gearbox control unit
- J248 - Diesel direct injection system control unit, in plenum chamber, centre
- N79 - Heater element (crankcase breather)
- T10 - 10-pin connector, orange, in protective housing for connectors, in plenum chamber, left
- T10w - 10-pin connector, white, in protective housing for connectors, in plenum chamber, left
- T14a - 14-pin connector, in cable channel left in engine compartment
- T68 - 68-pin connector
- T121 - 121-pin connector
- 131 - Earth connection -2-, in engine compartment wiring harness
- 608 - Earth point, in plenum chamber, centre

- * - Radiator fan control unit/ radiator fan relay connection
- ** - Connection for air conditioner
- ** - Only models with four speed automatic gearbox (AG4)



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97-26824

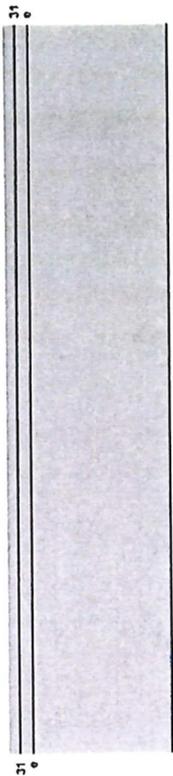
Golf/Bora

Current Flow Diagram

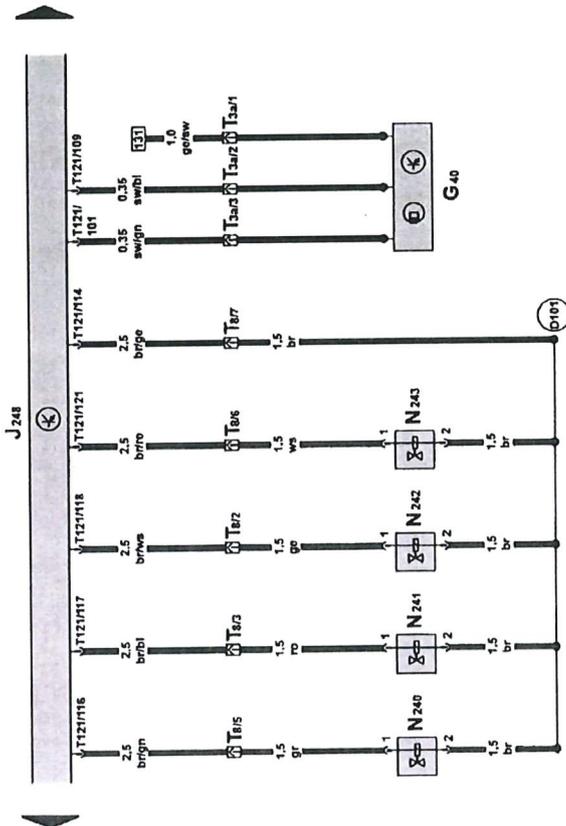
No. 11/7

Diesel direct injection system control unit, unit injector solenoid valves, hall sender (for camshaft position)

- G40 - Hall sender (for camshaft position)
- J248 - Diesel direct injection system control unit, in plenum chamber, centre
- N240 - Unit injector solenoid valve, No. 1 cyl.
- N241 - Unit injector solenoid valve, No. 2 cyl.
- N242 - Unit injector solenoid valve, No. 3 cyl.
- N243 - Unit injector solenoid valve, No. 4 cyl.
- T3a - 3-pin connector, on engine front
- T8 - 8-pin connector, in engine compartment, left
- T121 - 121-pin connector
- D101 - Connection -1-, in engine compartment wiring harness



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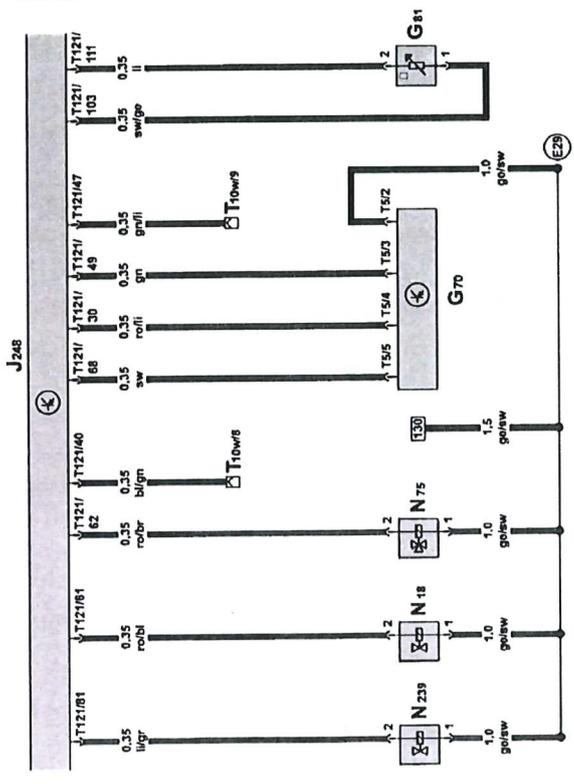
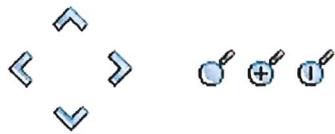
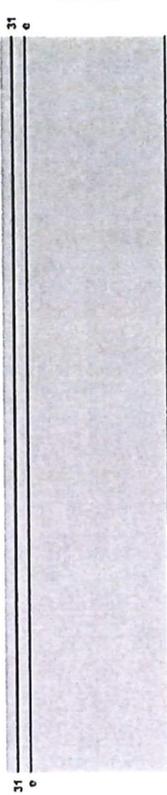
Golf/Bora

Current Flow Diagram

No. 11 / 8

Diesel direct injection system control unit, air mass meter, intake manifold flap change-over valve, fuel temperature sender, exhaust gas recirculation valve, charge pressure control solenoid valve

- G70 - Air mass meter
- G81 - Fuel temperature sender
- J248 - Diesel direct injection system control unit, in plenum chamber, centre
- N18 - Exhaust gas recirculation valve
- N75 - Charge pressure control solenoid valve
- N239 - Intake manifold flap change-over valve
- T5 - 5-pin connector
- T10w - 10-pin connector, white, in protective housing for connectors, in plenum chamber, left
- T121 - 121-pin connector
- E29 - Connection, in engine wiring harness



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No. 11 / 9

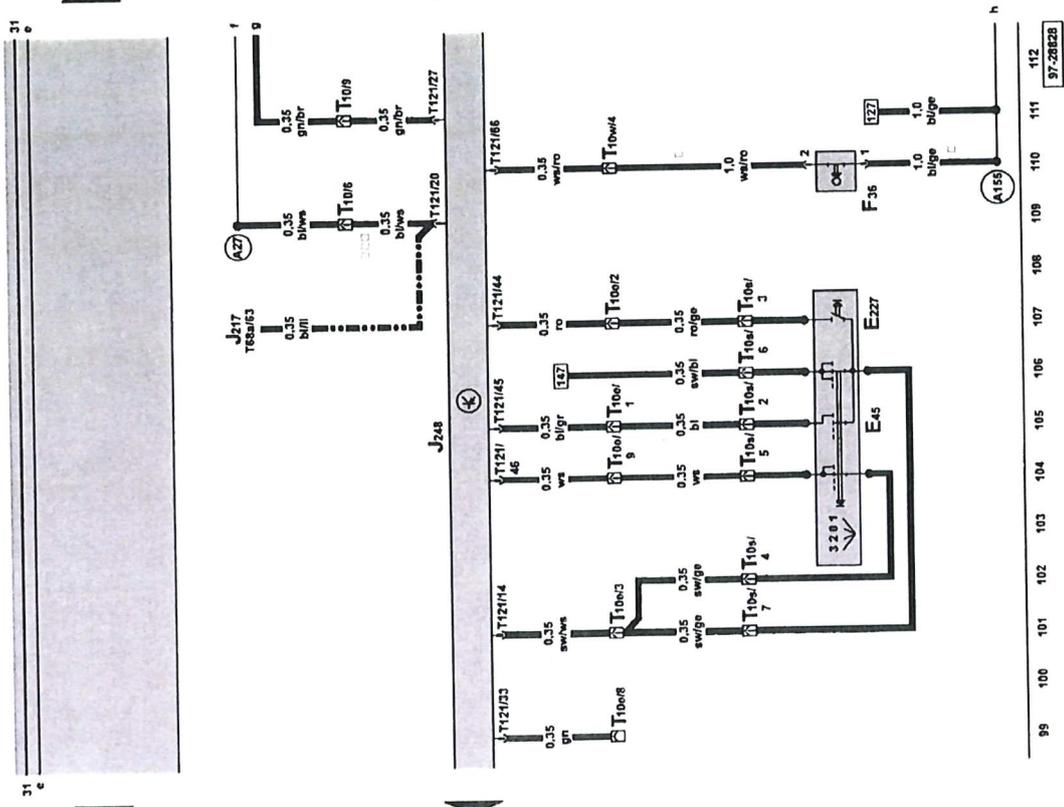
Current Flow Diagram

Golf/Bora

Diesel direct injection system control unit, cruise control system switch (CCS), clutch pedal switch

- E45 - Cruise control system switch**
- E227 - Cruise control system (CCS) button (Set)**
- F36 - Clutch pedal switch*
- J217 - Automatic gearbox control unit
- J248 - Diesel direct injection system control unit, in plenum chamber, centre
- T10 - 10-pin connector, orange, in protective housing for connectors, in plenum chamber, left
- T10e - 10-pin connector, black, in control unit protective housing, in plenum chamber, left
- T10s - 10-pin connector, next to steering column
- T10w - 10-pin connector, white, in protective housing for connectors, in plenum chamber, left
- T68a - 68-pin connector
- T121 - 121-pin connector
- A27 - Connection (speed signal), in dash panel wiring harness
- A155 - Connection -2- (86), in dash panel wiring harness

- * - Only models with manual gearbox
- ** - Only models with CCS
- *** - Only models with manual gearbox or four speed automatic gearbox (AG4)
- ...- - Only models with five speed automatic gearbox (AG5)



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Golf/Bora

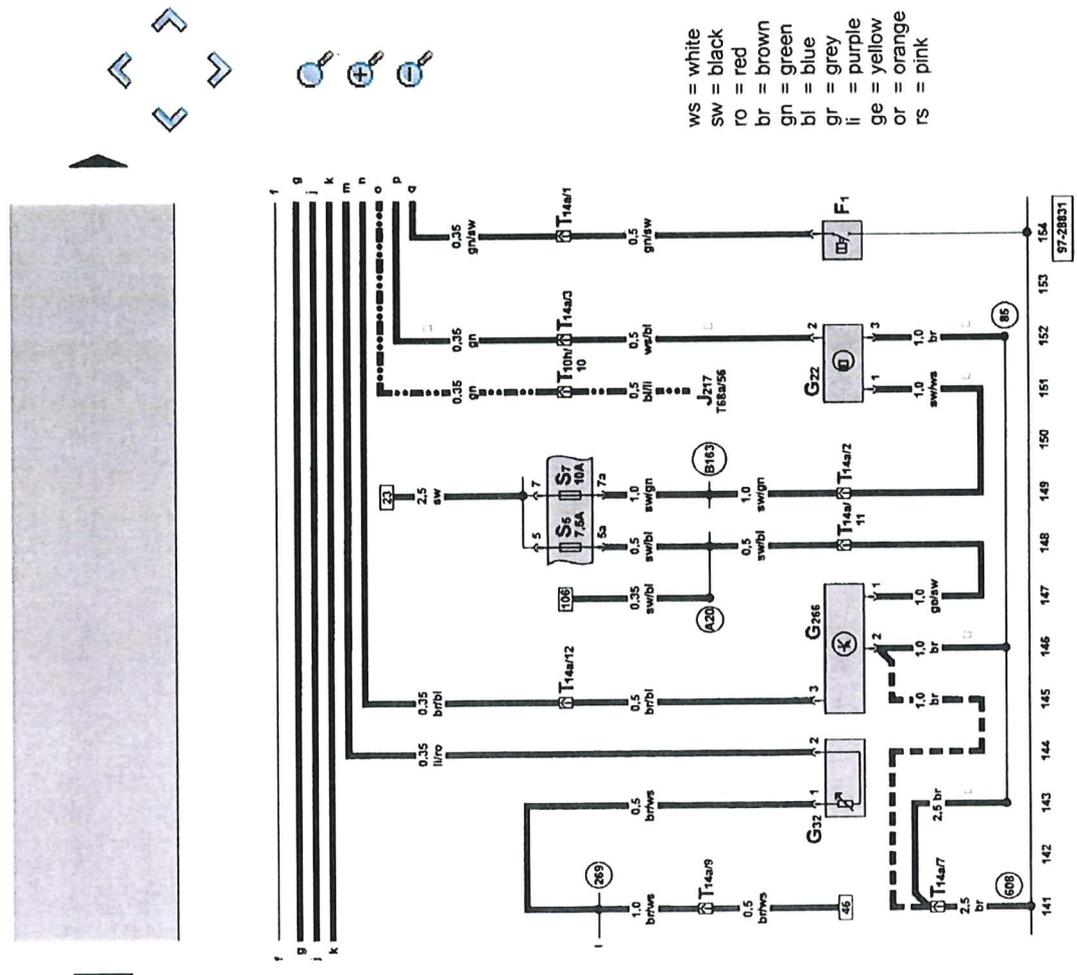
Current Flow Diagram

No. 11 / 12

Oil level/oil temperature sender, oil pressure switch, speedometer sender, coolant shortage indicator sender

- F1 - Oil pressure switch
- G22 - Speedometer sender (hall sender, on gearbox)
- G32 - Coolant shortage indicator sender
- G266 - Oil level/oil temperature sender***
- J217 - Automatic gearbox control unit
- S5 - Fuse in fuse box
- S7 - Fuse in fuse box
- T10h - 10-pin connector, blue, in control unit protective housing, in plenum chamber, left
- T14a - 14-pin connector, near battery
- T68a - 68-pin connector
- 85 - Earth connection -1-, in engine compartment wiring harness
- 269 - Earth connection (sender earth) -1-, in dash panel wiring harness
- 608 - Earth point, in plenum chamber, centre
- A20 - Connection (15a), in dash panel wiring harness
- B163 - Positive (+) connection -1- (15), in interior wiring harness

- * - Only models with manual gearbox
- *** - Only with flexible service interval display
- - Only models with automatic gearbox (AG4)
- ...- - Only models with five speed automatic gearbox (AG5)



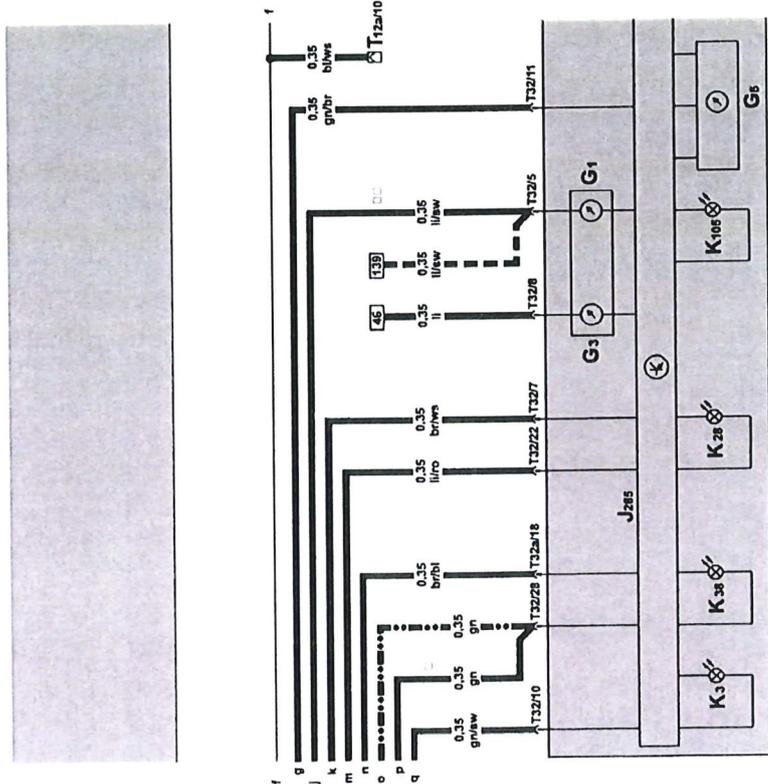
Golf/Bora

Current Flow Diagram

No. 11 / 13

Dash panel insert, coolant temperature gauge and fuel gauge, fuel gauge, rev. counter, oil pressure warning lamp

- G1 - Fuel gauge
- G3 - Coolant temperature gauge
- G5 - Rev. counter
- J285 - Control unit with display in dash panel insert
- K3 - Oil pressure warning lamp
- K28 - Coolant temperature/coolant shortage warning lamp
- K38 - Oil level warning lamp***
- K105 - Reserve fuel warning lamp
- T12a - 12-pin connector, connection for Climatronic only
- T32 - 32-pin connector, blue
- T32a - 32-pin connector, green
- * - Only models with manual gearbox
- ** - From September 2000
- - Up to August 2000
- *** - Only with flexible service interval display
- ...- - Only models with five speed automatic gearbox (AG5)



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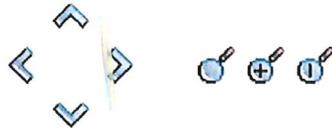
Golf/Bora

Current Flow Diagram

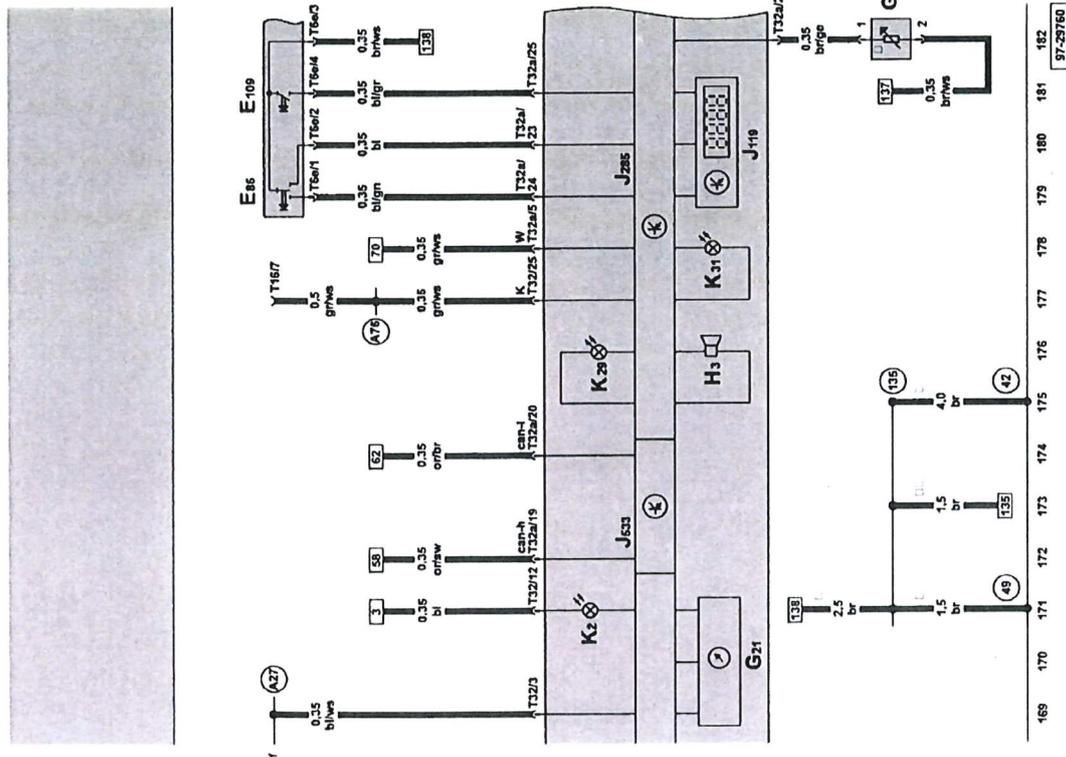
No. 11 / 14

Dash panel insert, multi-function display, ambient temperature indicator, self-diagnosis connection, glow period warning lamp, cruise control system warning lamp, speedometer

- E86 - Multi-function display call-up button
- E109 - Multi-function display, memory switch
- G17 - Ambient temperature sensor
- G21 - Speedometer
- H3 - Warning buzzer
- J119 - Multi-function display
- J285 - Control unit with display in dash panel insert
- J533 - Data bus diagnostic interface, in dash panel insert
- K2 - Alternator warning lamp
- K29 - Glow period warning lamp
- K31 - Cruise control system warning lamp
- T6e - 6-pin connector
- T16 - 16-pin connector, in dash panel centre, self-diagnosis connection
- T32 - 32-pin connector, blue
- T32a - 32-pin connector, green
- 42 - Earth point, next to steering column
- 49 - Earth point, on steering column
- 135 - Earth connection -2-, in dash panel wiring harness
- A27 - Connection (speed signal), in dash panel wiring harness
- A76 - Connection (diagnosis wire K), in dash panel wiring harness
- * - From May 2000
- ** - From September 2000



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 97-29760

ELECTRICAL CIRCUIT DIAGRAMS
(BASIC EQUIPMENT)

Current Flow Diagram

Golf/Bora

Basic equipment, Golf and Bora
from May 2000

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

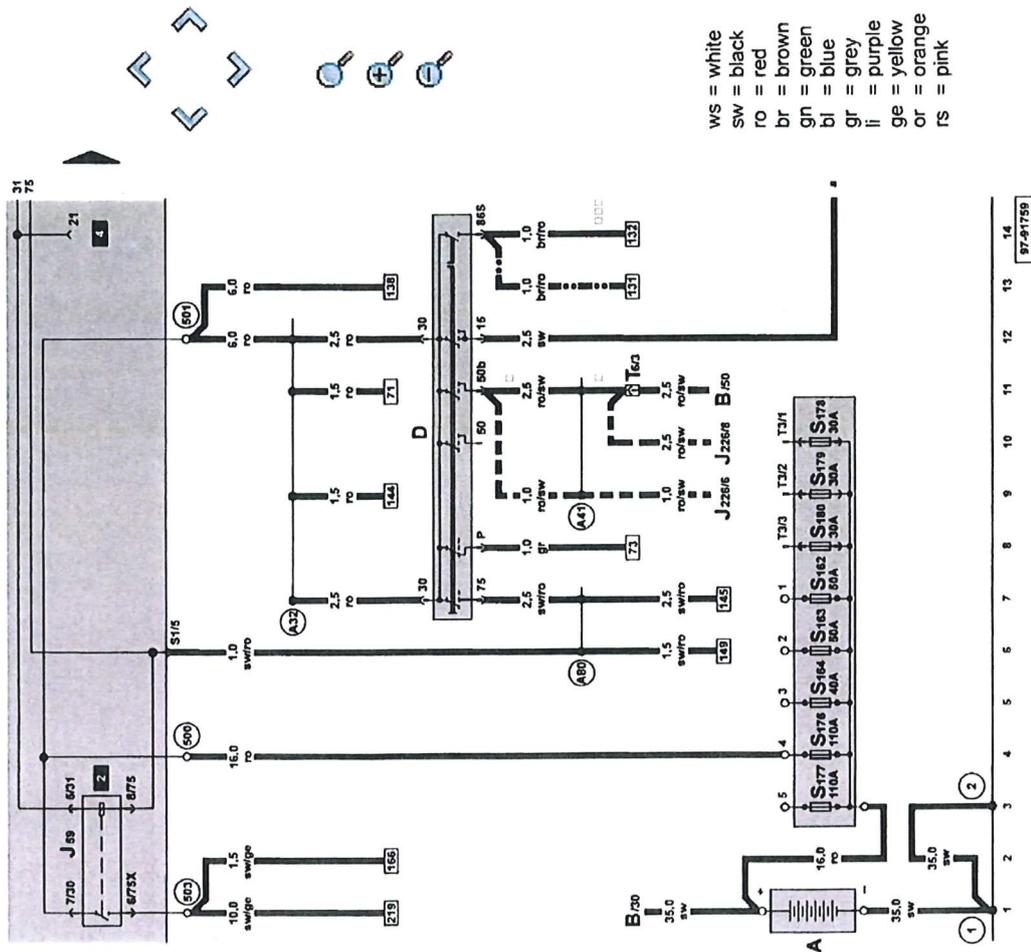
Golf/Bora

Current Flow Diagram

No. 73 / 2

Battery, ignition/starter switch, X-contact relief relay

- A - Battery
 - B - Starter
 - D - Ignition/starter switch
 - J59 - X-contact relief relay
 - J226 - Starter inhibitor and reversing light relay
 - S162 - Fuse 1 (30) in fuse holder on battery
 - S163 - Fuse 2 (30) in fuse holder on battery
 - S164 - Fuse 3 (30) in fuse holder on battery
 - S176 - Fuse 4 (30) in fuse holder on battery
 - S177 - Fuse 5 (30) in fuse holder on battery
 - S178 - Fuse 6 (30) in fuse holder on battery
 - S179 - Fuse 7 (30) in fuse holder on battery
 - S180 - Fuse 8 (30) in fuse holder on battery
 - T3 - 3-pin connector
 - T6 - 6-pin connector, brown, in connector protective housing, on left in plenum chamber
- 1 - Earth strap, battery - body
 - 2 - Earth strap, gearbox - body
 - 500 - Screw connection 1 (30), on relay plate
 - 501 - Screw connection 2 (30), on relay plate
 - 503 - Screw connection (75x), on relay plate
 - A32 - Positive connection (30), in dash panel wiring harness
 - A41 - Positive connection (50), in dash panel wiring harness, (models with petrol engine only, up to April 2001)
 - A80 - Connection 1 (X), in dash panel wiring harness
- * - only models with manual gearbox
 - - models with automatic gearbox only
 - *** - from November 2001
 - - up to October 2001



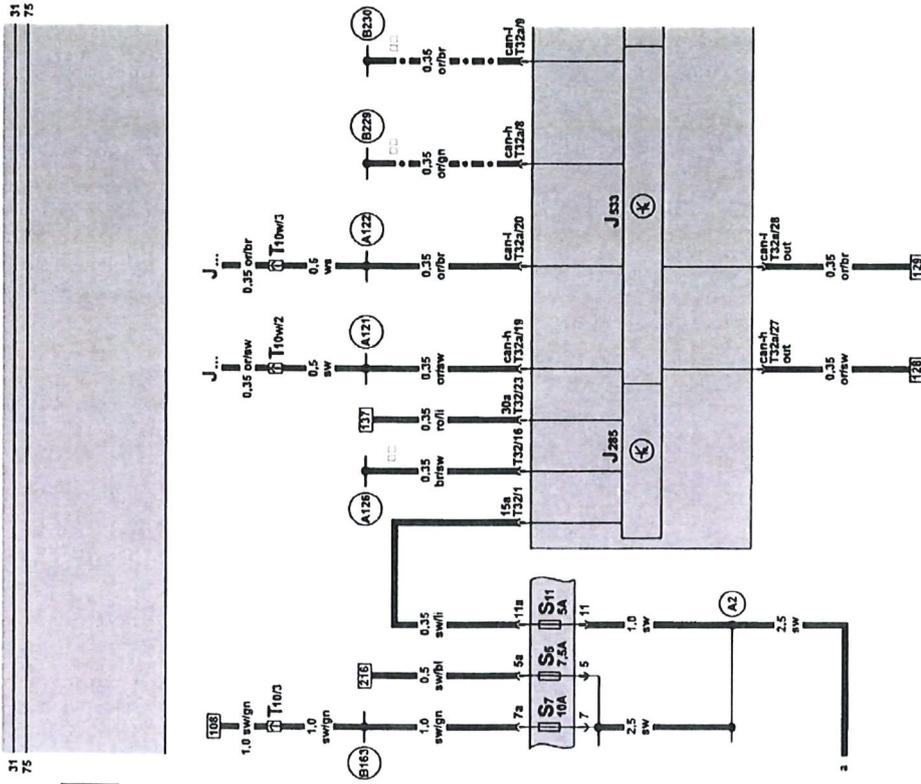
ws = white
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Golf/Bora

Current Flow Diagram

No. 73 / 3

- Dash panel insert**
- J285 - Control unit with display in dash panel insert
 - J533 - Data bus diagnostic interface, in dash panel insert
 - J... - Engine control units
 - S5 - Fuse 5 in fuse holder
 - S7 - Fuse 7 in fuse holder
 - S11 - Fuse 11 in fuse holder
 - T10 - 10-pin connector, orange, in connector protective housing, on left in plenum chamber
 - T10W - 10-pin connector, white, in connector protective housing, on left in plenum chamber
 - T32 - 32-pin connector, blue
 - T32a - 32-pin connector, green
 - A2 - Positive connection (15), in dash panel wiring harness
 - A121 - Connection (high bus), in dash panel wiring harness
 - A122 - Connection (low bus), in dash panel wiring harness
 - A126 - Connection (rear lid contact switch), in dash panel wiring harness
 - B163 - Positive connection 1 (15), in interior wiring harness
 - B229 - Connection (high bus), in interior wiring harness
 - B230 - Connection (low bus), in interior wiring harness
- ** - Current Flow Diagram convenience system/central locking
 -●-●- - from May 2001



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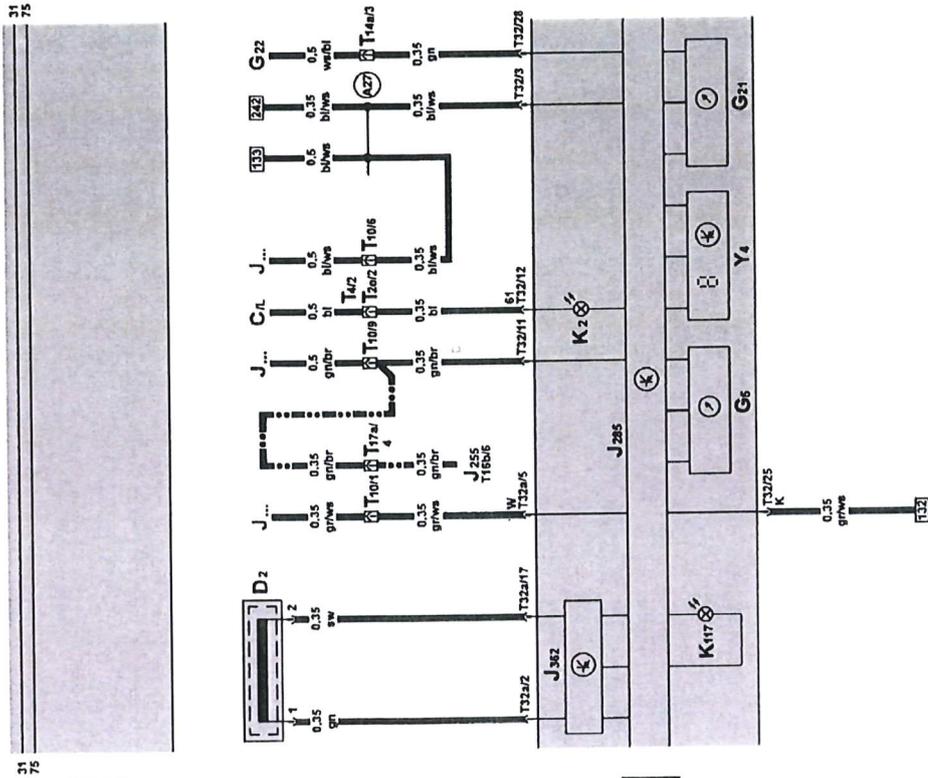
Golf/Bora

No. 73 / 4

Current Flow Diagram

Dash panel insert, immobilizer, rev. counter, odometer display, speedometer, alternator warning lamp

- C - Alternator
- D2 - Immobilizer reader coil
- G5 - Rev. counter
- G21 - Speedometer
- G22 - Speedometer sender, on gearbox
- J255 - Climatronic control unit
- J285 - Control unit in dash panel insert
- J362 - Immobilizer control unit
- J... - Engine control units
- K2 - Alternator warning lamp
- K117 - Immobilizer warning lamp
- T2e - 2-pin connector, near starter (in models without air conditioning system)
- T10 - 10-pin connector, orange, in connector protective housing, on left in plenum chamber
- T14a - 14-pin connector, near battery
- T16b - 16-pin connector
- T17a - 17-pin connector, behind centre dash panel
- T32 - 32-pin connector, blue
- T32a - 32-pin connector, green
- Y4 - Odometer display
- A27 - Connection (speed signal), in dash panel wiring harness
- * - Revolution signal engine control unit up to April 2002
- - only models with Climatronic



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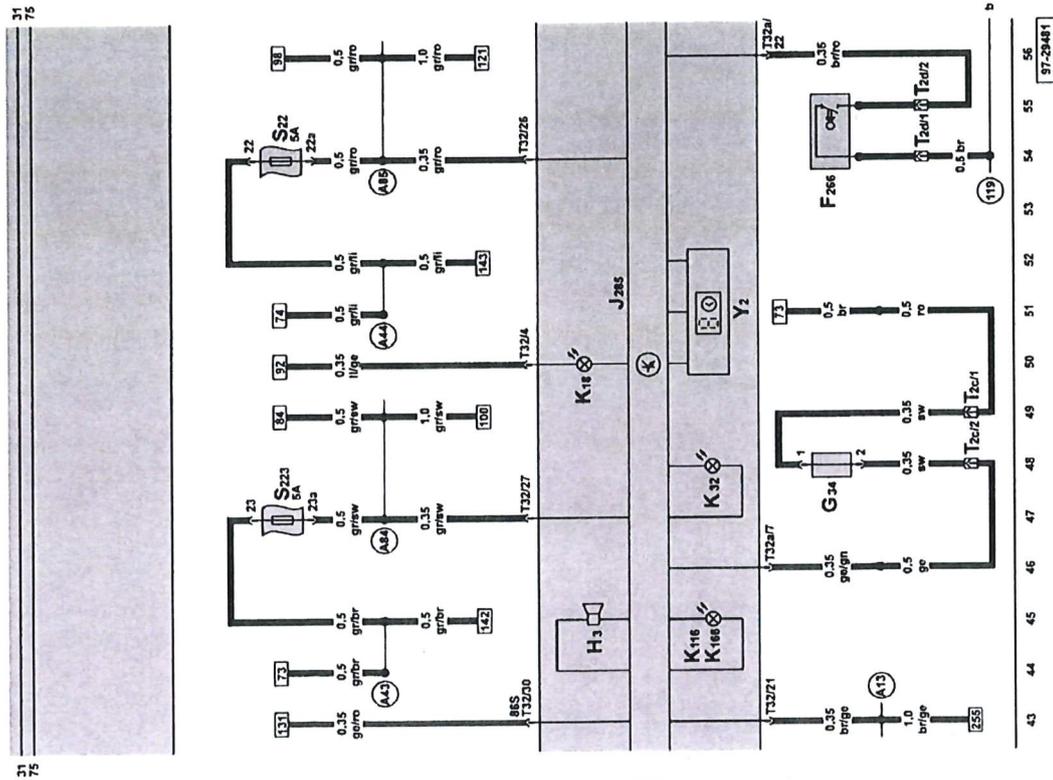
Golf/Bora

Current Flow Diagram

No. 73 / 5

Dash panel insert, trailer operation warning lamp, digital clock, bonnet contact switch, front left brake pad wear sender, brake pad warning lamp

- F266 - Bonnet contact switch, in lock part
- G34 - Front left brake pad wear sender
- H3 - Warning buzzer
- J285 - Control unit with display in dash panel insert
- K18 - Trailer operation warning lamp
- K32 - Brake pad warning lamp
- K116 - Rear lid open warning lamp (up to April 2001)
- K166 - Door open warning lamp (from May 2001)
- S22 - Fuse 22 in fuse holder
- S223 - Fuse 23 in fuse holder
- T2c - 2-pin connector, near front left brake pad wear sender
- T2d - 2-pin connector, near right headlight
- T32 - 32-pin connector, blue
- T32a - 32-pin connector, green
- Y2 - Digital clock
- 119 - Earth connection 1, in headlight wiring harness
- A13 - Connection (door contact switch), in dash panel wiring harness
- A43 - Connection (57L), in dash panel wiring harness
- A44 - Connection (57R), in dash panel wiring harness
- A84 - Connection (58L), in dash panel wiring harness
- A85 - Connection (58R), in dash panel wiring harness



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

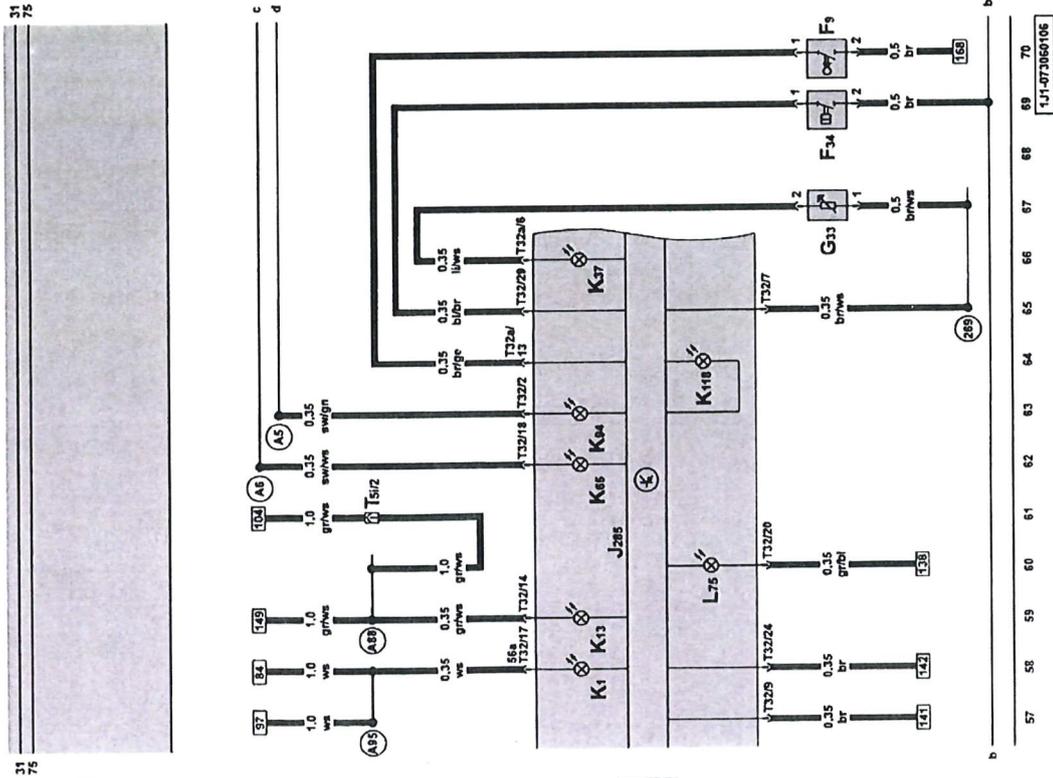
Golf/Bora

Current Flow Diagram

No. 73/6

Dash panel insert, brake system warning lamp, brake fluid level warning contact, turn signal warning lamps, main beam warning lamp, rear fog light warning lamp

- Handbrake warning switch
- Brake fluid level warning contact
- Windscreen washer fluid level sender
- Control unit with display in dash panel insert
- Main beam warning lamp
- Rear fog light warning lamp
- Washer fluid level warning lamp
- Left turn signal warning lamp
- Right turn signal warning lamp
- Brake system warning lamp
- Digital display illumination bulb
- 5-pin connector, near lower left A-pillar, entwined in wiring harness
- 32-pin connector, blue
- 32-pin connector, green
- Earth connection (sender earth) 1, in dash panel wiring harness
- Positive connection (right turn signal), in dash panel wiring harness
- Positive connection (left turn signal), in dash panel wiring harness
- Connection (RFL), in dash panel wiring harness
- Connection 1 (56a), in dash panel wiring harness



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Golf/Bora

Current Flow Diagram

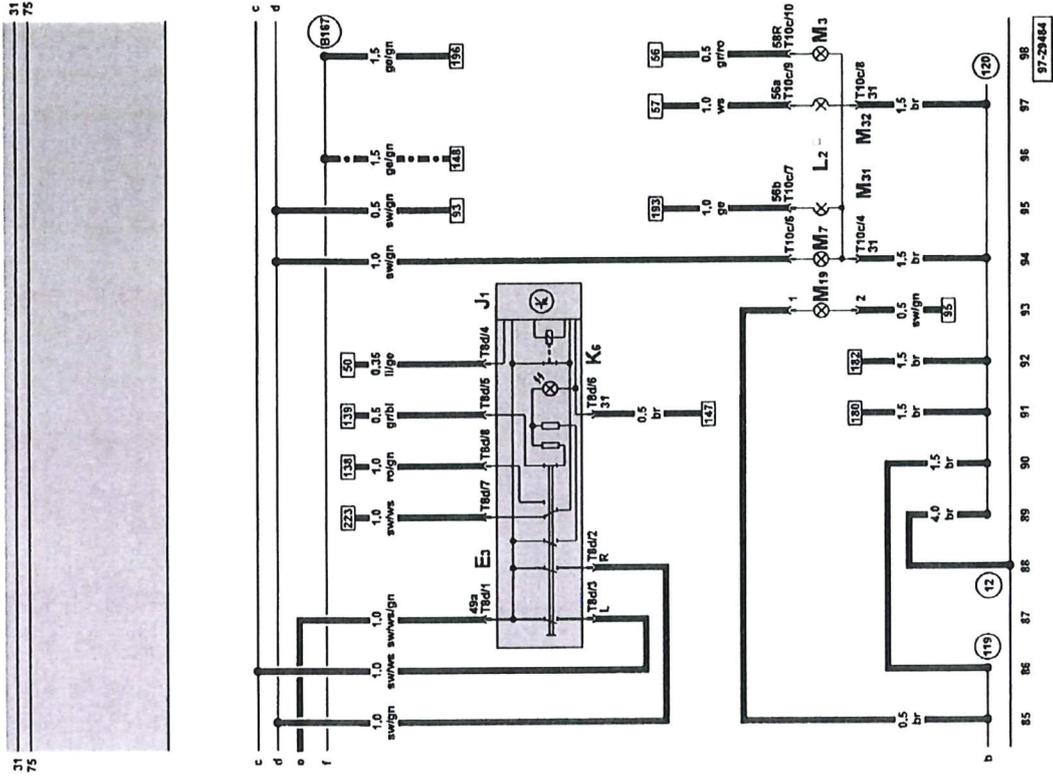
No. 73 / 8

Hazard warning light switch, turn signal relay, front right headlight, front right turn signal

- Hazard warning light switch
- Turn signal relay
- Hazard warning light system warning lamp
- Right twin filament bulb*
- Right side light bulb
- Front right turn signal bulb
- Right side mounted turn signal bulb
- Right headlight dipped beam bulb (only Golf)
- Right headlight main beam bulb (only Golf)
- 8-pin connector**
- 10-pin connector, on right headlight
- Earth point, on left in engine compartment

- Earth connection 1, in headlight wiring harness
- Earth connection 2, in headlight wiring harness
- Connection (56b), in interior wiring harness

- * - only Bora
- ** - Connection numbering of turn signal relay can vary, see fault finding programme!
- - only Golf



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Golf/Bora

Current Flow Diagram

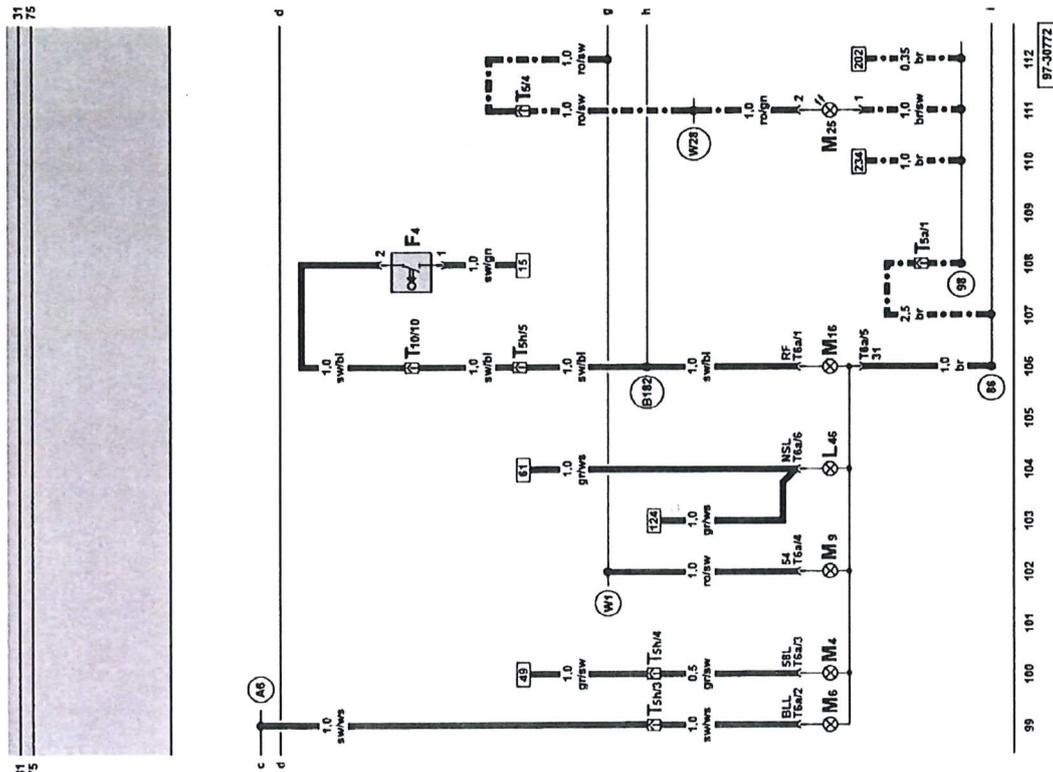
No. 73 / 9

Left tail light, left brake light, rear left turn signal, reversing lights switch, left reversing light, rear fog light, high level brake light bulb (Golf)

- F4 - Reversing light switch
- L46 - Rear left fog light bulb
- M4 - Left tail light bulb
- M6 - Rear left turn signal bulb
- M9 - Left brake light bulb
- M16 - Left reversing light bulb
- M25 - High level brake light bulb (32 LED's)
- T5 - 5-pin connector, black, coupling station on left C-pillar
- T5a - 5-pin connector, pink, coupling station on left C-pillar
- T5h - 5-pin connector, near lower left A-pillar, entwined in wiring harness
- T6a - 6-pin connector
- T10 - 10-pin connector, orange, in connector protective housing, on left in plenum chamber

- 86 - Earth connection, in rear wiring harness
- 98 - Earth connection, in rear lid wiring harness
- A6 - Positive connection (left turn signal), in dash panel wiring harness
- B182 - Connection (RL), in interior wiring harness
- W1 - Positive connection (54), in rear wiring harness
- W28 - Positive connection 2 (54), in rear wiring harness

- * - only Bora
- - only Golf



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 B7-30772

Golf/Bora

Current Flow Diagram

No. 73/11

Self-diagnosis connection, connection for radio, cigarette lighter

- Cigarette lighter illumination bulb
- Radio**

- S10 - Fuse 10 in fuse holder
- S12 - Fuse 12 in fuse holder
- S15 - Fuse 15 in fuse holder
- S237 - Fuse 37 in fuse holder
- S239 - Fuse 39 in fuse holder
- S240 - Fuse 40 in fuse holder
- S241 - Fuse 41 in fuse holder
- S242 - Fuse 42 in fuse holder
- T8 - 8-pin connector, on radio (not for radio system 'Delta')
- T16 - 16-pin connector, in centre dash panel, self-diagnosis connection

- U1 - Cigarette lighter
- 45 - Earth point, centre behind dash panel

- 81 - Earth connection 1, in dash panel wiring harness

- A4 - Positive connection (58b), in dash panel wiring harness

- A21 - Connection (86s), in dash panel wiring harness

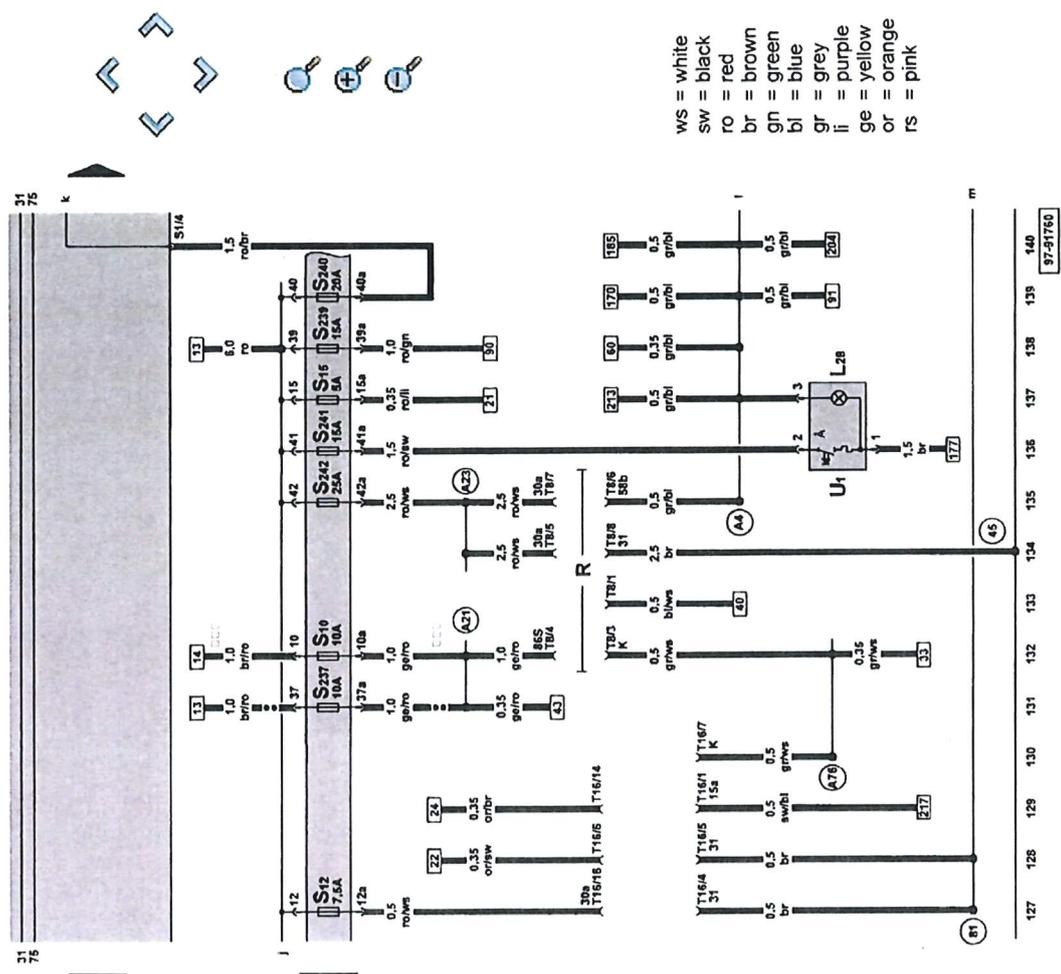
- A23 - Connection (30a), in dash panel wiring harness

- A76 - Connection (diagnosis wire K), in dash panel wiring harness

- ** - models with radio 'Delta', □ Current Flow Diagram radio system 'Delta'

- *** - from November 2001

- - up to October 2001

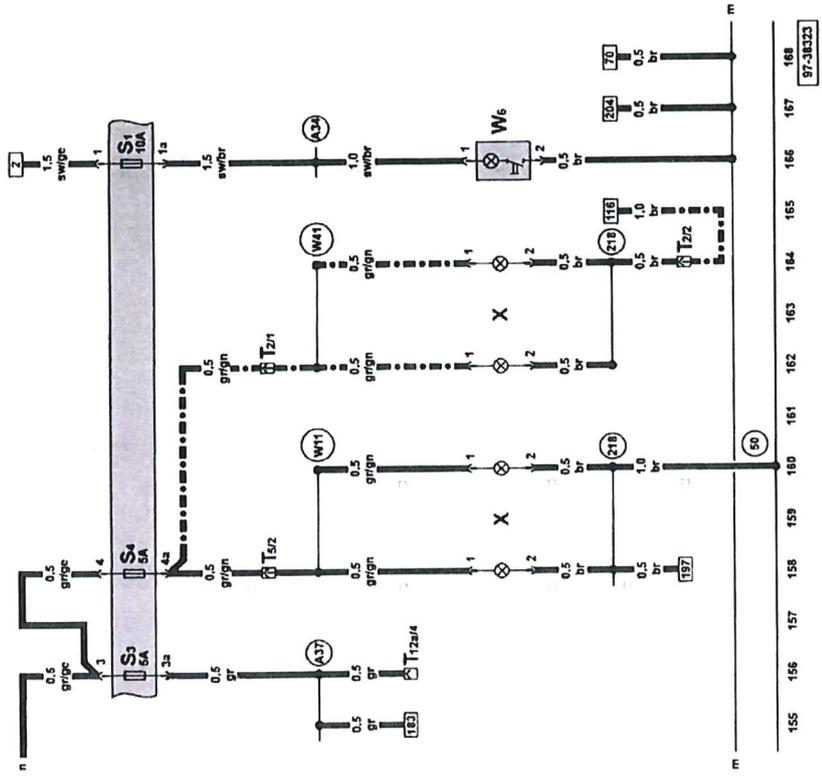
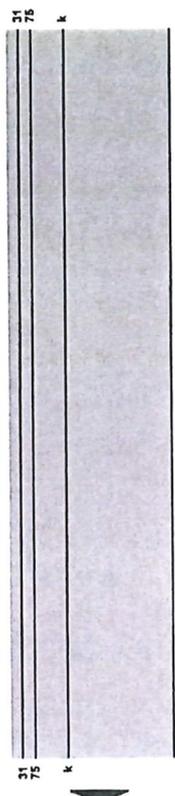


Golf/Bora

Current Flow Diagram

No. 73 / 13

- Glove compartment light, number plate lights**
- Fuse 1 in fuse holder
 - Fuse 3 in fuse holder
 - Fuse 4 in fuse holder
 - 2-pin connector, on left in luggage compartment
 - 5-pin connector, black, coupling station on left C-pillar
 - 12-pin connector, Climatronic connection only
 - Glove compartment light
 - Number plate lights
 - Earth point, on left in luggage compartment



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- * - only Bora
- - only Golf

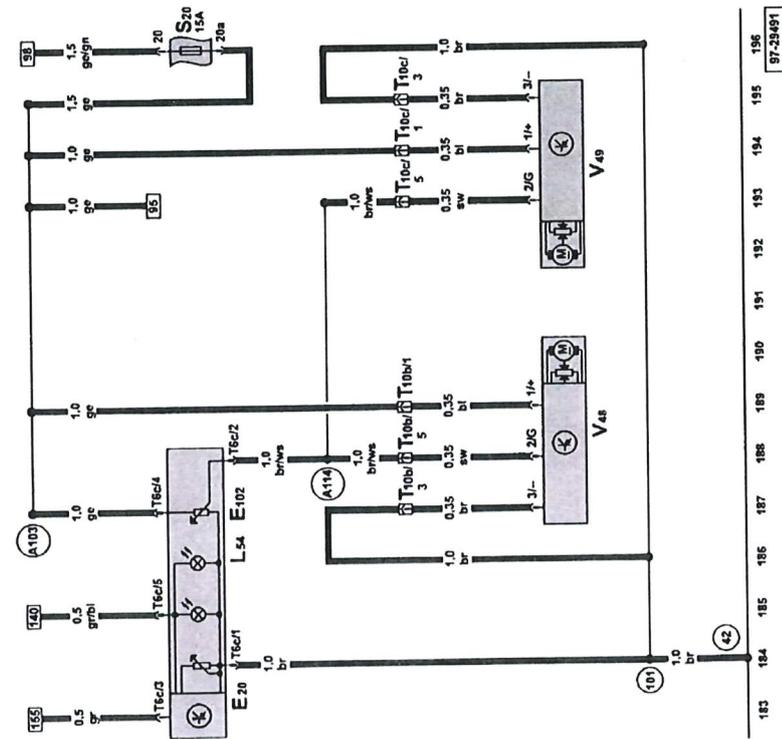
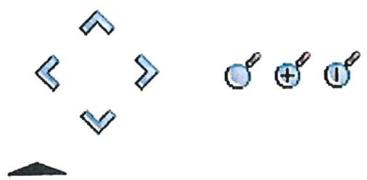
Golf/Bora

Current Flow Diagram

No. 73 / 15

Headlight range control regulator, headlight range control motor, illumination regulators - switches and instruments

- E20 - Illumination regulators - switches and instruments
- E102 - Headlight range control regulator
- L54 - Headlight range control regulator illumination bulb
- S20 - Fuse 20 in fuse holder
- T6C - 6-pin connector
- T10b - 10-pin connector, on left headlight
- T10c - 10-pin connector, on right headlight
- V48 - Left headlight range control motor
- V49 - Right headlight range control motor
- 42 - Earth point, next to steering column
- 101 - Earth connection, in headlight range adjustment wiring harness
- A103 - Connection 2 (56), in dash panel wiring harness
- A114 - Connection (headlight range control), in dash panel wiring harness



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Golf/Bora

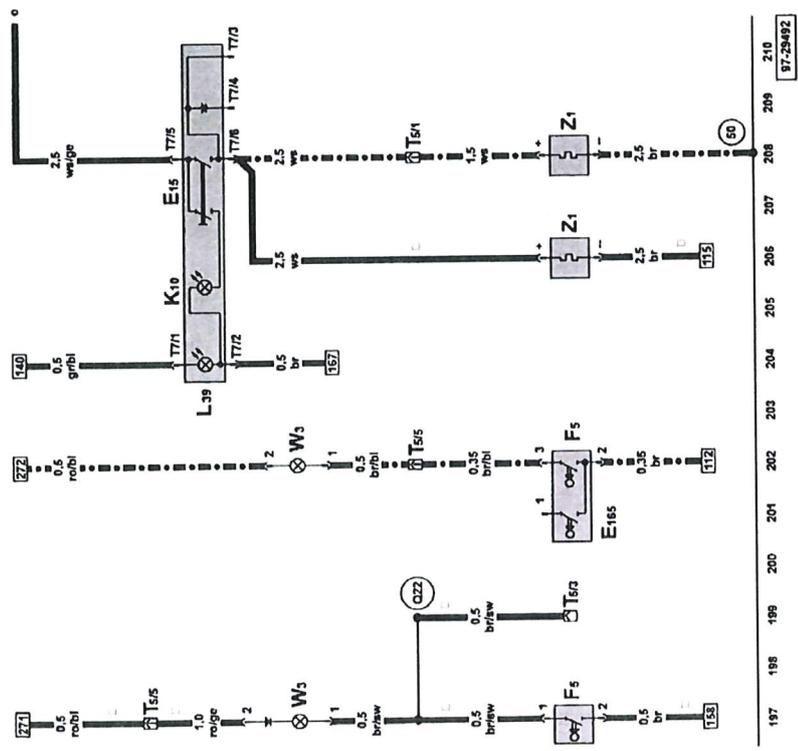
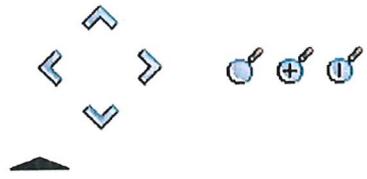
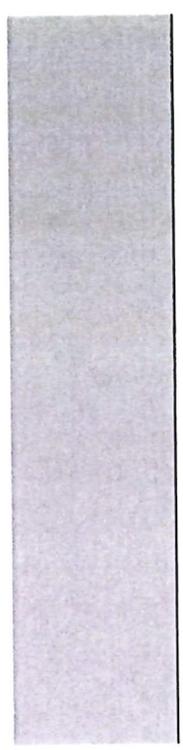
Current Flow Diagram

No. 73 / 16

Heated rear window switch, heated rear window, luggage compartment light

- E15 - Heated rear window switch
- E165 - Rear lid release switch
- F5 - Luggage compartment light switch
- K10 - Heated rear window warning lamp
- L39 - Heated rear window switch illumination bulb
- T5 - 5-pin connector, black, coupling station on left C-pillar
- T7 - 7-pin connector
- W3 - Luggage compartment light**
- Z1 - Heated rear window
- 50 - Earth point, on left in luggage compartment
- Q22 - Connection 1, in rear lid wiring harness

* - only Bora
 - only Golf
 ** - see also convenience electrics/ central locking



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 rs = pink

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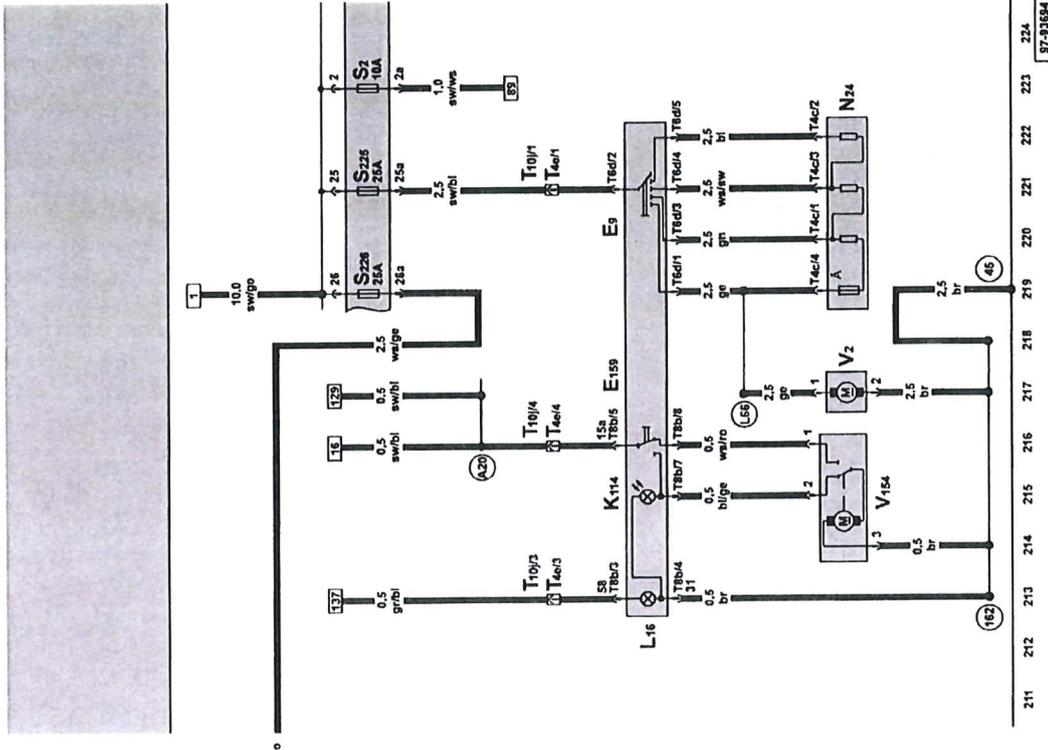
Golf/Bora

Current Flow Diagram

No. 73 / 17

Fresh air blower switch, fresh air/air recirculation flap switch,
fresh air blower, fresh air/recirculated air flap control motor

- E9 - Fresh air blower switch
- E159 - Fresh air/air recirculation flap switch
- K114 - Fresh air and air recirculation warning lamp
- L16 - Fresh air regulator illumination bulb
- N24 - Fresh air blower series resistor with overheating fuse
- S2 - Fuse 2 in fuse holder
- S225 - Fuse 25 in fuse holder
- S226 - Fuse 26 in fuse holder
- T4c - 4-pin connector
- T4e - 4-pin connector, behind centre dash panel (models without air conditioning system)
- T6d - 6-pin connector
- T8b - 8-pin connector
- T10j - 10-pin connector, behind centre dash panel (models with air conditioning system)
- V2 - Fresh air blower
- V154 - Fresh air/recirculated air flap control motor
- 45 - Earth point, centre behind dash panel
- 162 - Earth connection, in blower motor wiring harness
- A20 - Connection (15a), in dash panel wiring harness
- L66 - Connection, in heater blower wiring harness



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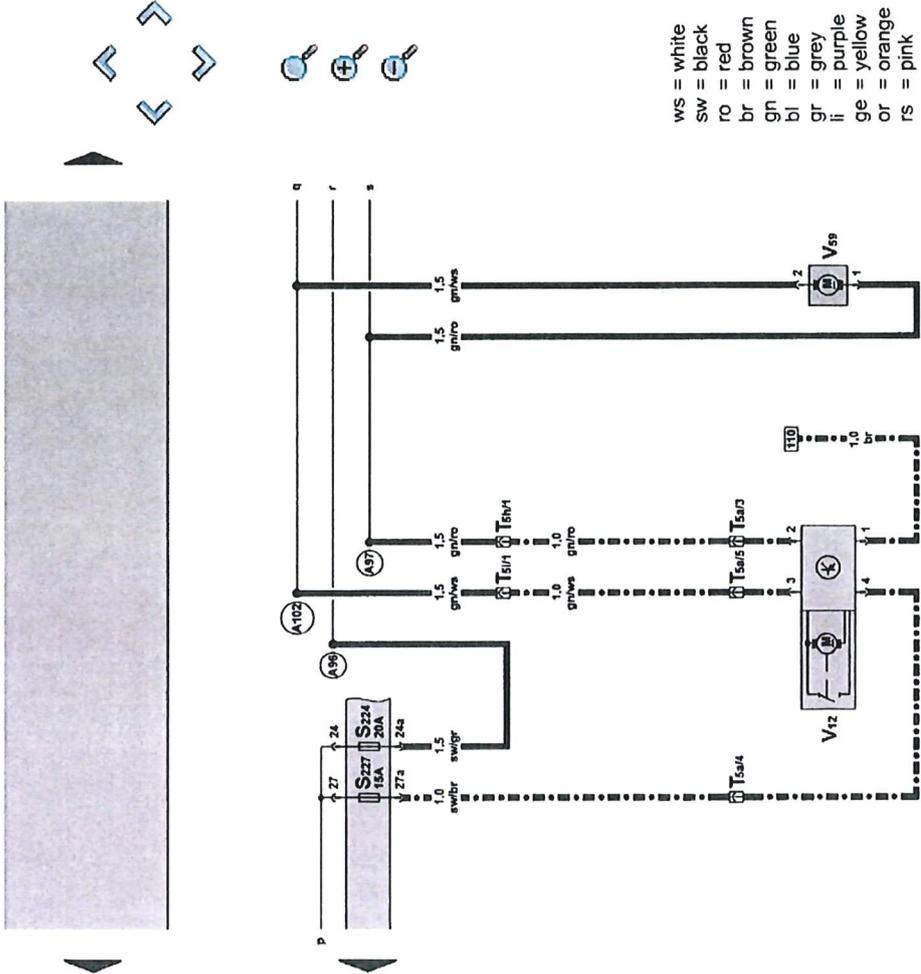
Golf/Bora

Current Flow Diagram

No. 73 / 18

Rear window wiper motor, windscreen and rear window washer pump

- Fuse 24 in fuse holder
- Fuse 27 in fuse holder
- 5-pin connector, pink, coupling station on left C-pillar
- 5-pin connector, near lower left A-pillar, entwined in wiring harness
- 5-pin connector, near lower left A-pillar, entwined in wiring harness
- Rear window wiper motor
- Windscreen and rear window washer pump
- Connection (53a), in dash panel wiring harness
- Connection (53), in dash panel wiring harness
- Connection (windscreen wiper), in dash panel wiring harness
- only Golf



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Golf/Bora

Current Flow Diagram

No. 73 / 19

Intermittent wiper switch, windscreen wiper motor, automatic

intermittent wash and wipe relay

E22 - Intermittent wiper switch

E38 - Intermittent wiper regulator

J31 - Automatic intermittent wash and wipe relay, on relay plate

T6e - 6-pin connector

T8c - 8-pin connector

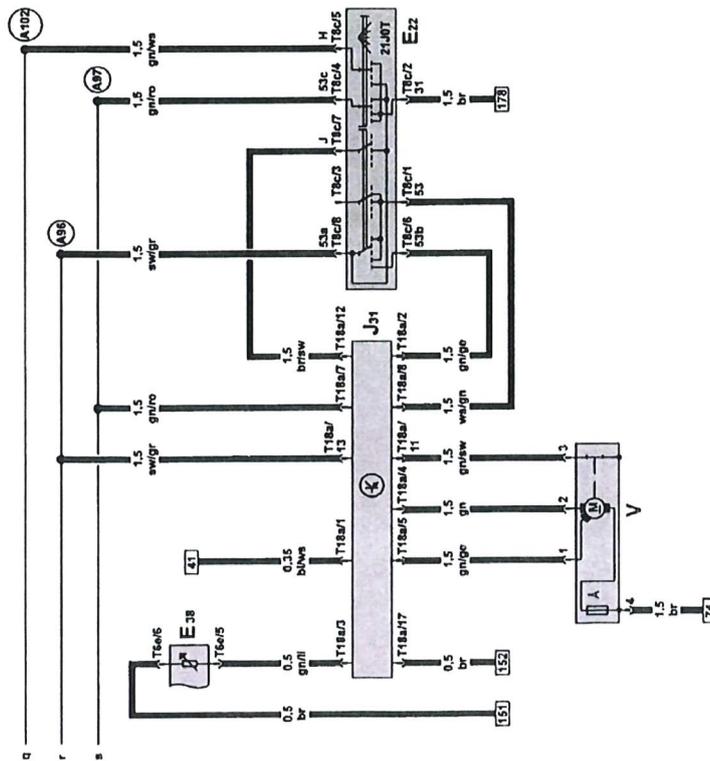
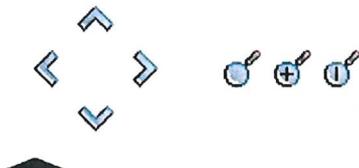
T18a - 18-pin connector

V - Windscreen wiper motor

A96 - Connection (53a), in dash panel wiring harness

A97 - Connection (53), in dash panel wiring harness

A102 - Connection (windscreen wiper), in dash panel wiring harness



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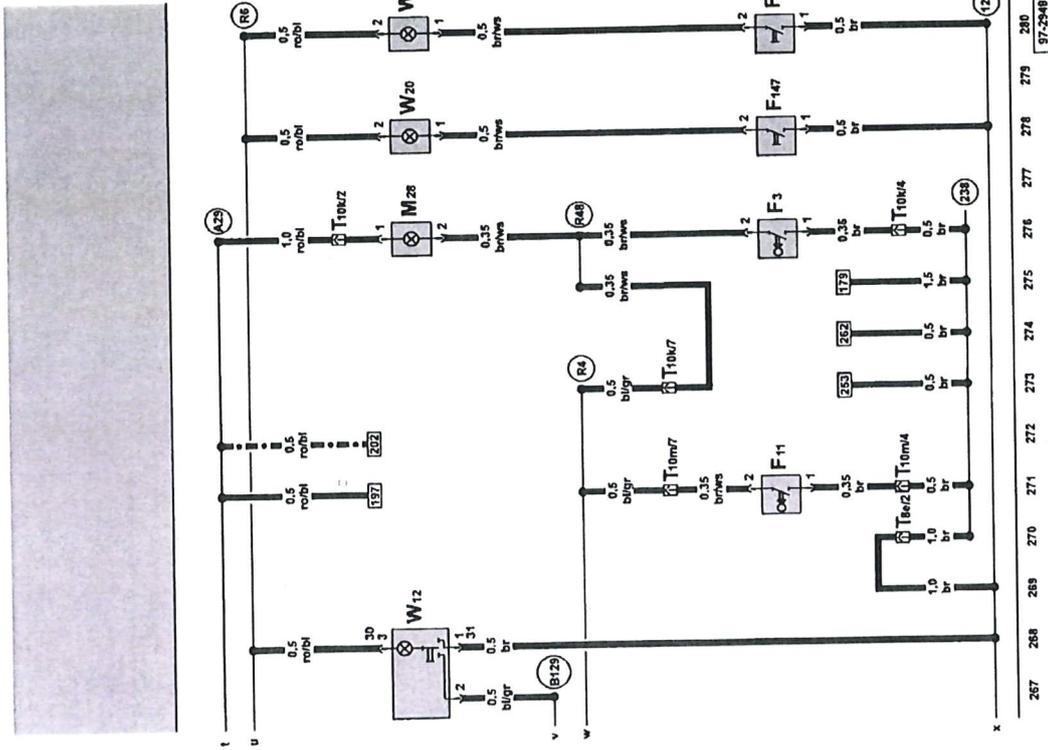
No. 73 / 21

Current Flow Diagram

Rear right reading light, right door warning lamp, illuminated vanity mirror

- Front passenger door contact switch
- Rear right door contact switch
- Driver vanity mirror contact switch
- Front passenger vanity mirror contact switch
- Right door warning lamp
- 8-pin connector, behind left dash panel
- 10-pin connector, black, coupling station right A-pillar
- 10-pin connector, black, coupling station right B-pillar
- Rear right reading light
- Illuminated vanity mirror (front passenger side)
- Illuminated vanity mirror (driver side)
- Earth connection 1, in interior light wiring harness
- Earth connection 1, in interior wiring harness
- Earth connection 1, in interior wiring harness
- Connection (interior light), in dash panel wiring harness
- Connection (interior light, 311), in interior wiring harness
- Connection 1, in interior light/door contact switch wiring harness
- Positive connection 1, in interior light wiring harness
- Connection, in front passenger side door wiring harness

* - only Bora
 -●-●- - only Golf



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