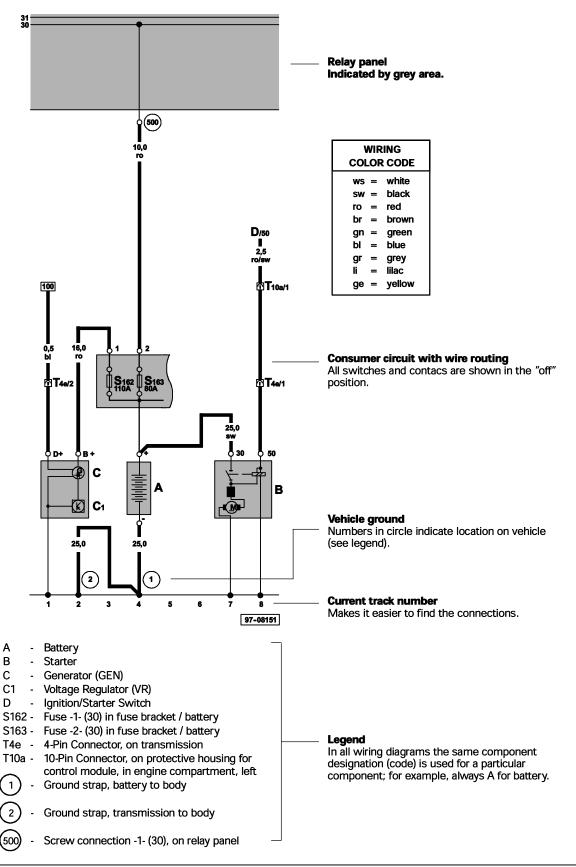
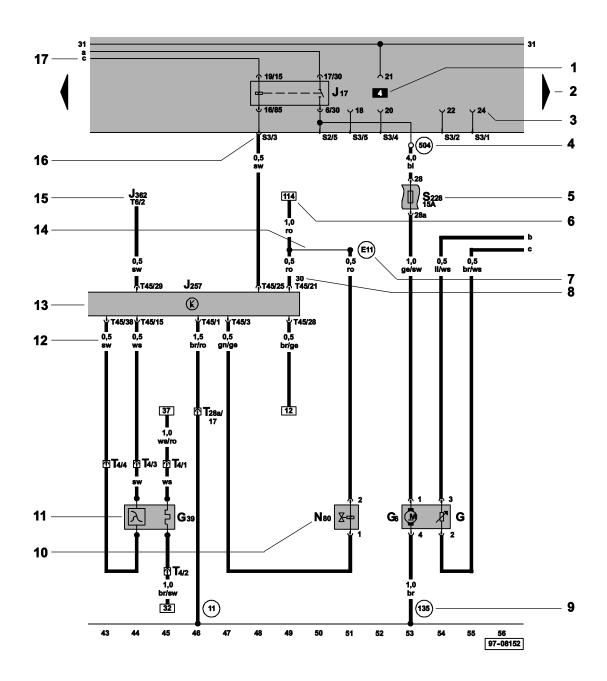


Wiring diagram layout



How to read wiring diagrams



How to read wiring diagrams

1 - Relay location number

Indicates location on relay panel.

2 - Arrow

Indicates wiring circuit is continued on the previous and/or next page.

3 - Connection designation - relay control module on relay panel

Shows the individual terminals in a multi-point connector. For example: contact 24 on terminal 4 on relay panel.

4 - Diagram of threaded pin on relay panel

White circle shows a detachable connection.

5 - Fuse designation

For example: S228 = Fuse number 28, 15 amps, in fuse holder

6 - Reference of wire continuation (current track number)

Number in frame indicates current track where wire is continued.

7 - Wire connection designation in wiring harness

Location of wire connections are indicated in the legend.

8 - Terminal designation

Designation which appears on actual component and/or terminal number of a multi-point connector.

9 - Ground connection designation in wire harness

Locations of ground connections are indicated in legend.

10 - Component designation

Use legend at bottom of page to identify the component code.

11 - Component symbols (see page IV - VI)

12 - Wire cross-section size (in mm²) and wire colors

Abbreviations are explaining in color chart beside the wiring diagram.

13 - Component symbol with open drawing side

Indicated component is continued on another wiring diagram. The number of corresponding wiring diagram can taken from list of contents.

14 - Internal connections (thin lines)

These connections are **not** wires. Internal connections are current carrying and are listed to allow tracing of current flow inside components and wiring harness.

15 - Reference of continuation of wire to component

For example: Control module for anti-theft immobilizer J362 on 6-Pin Connector, terminal 2

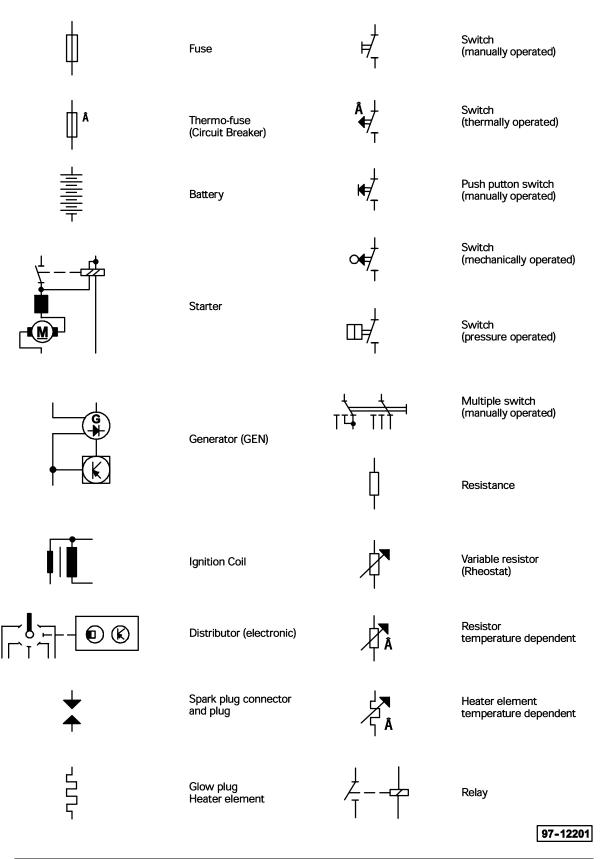
16 - Relay panel connectors

Shows wiring of multi-point or single connectors on relay panel For example: S3/3 - Multi-point connector S3, terminal 3

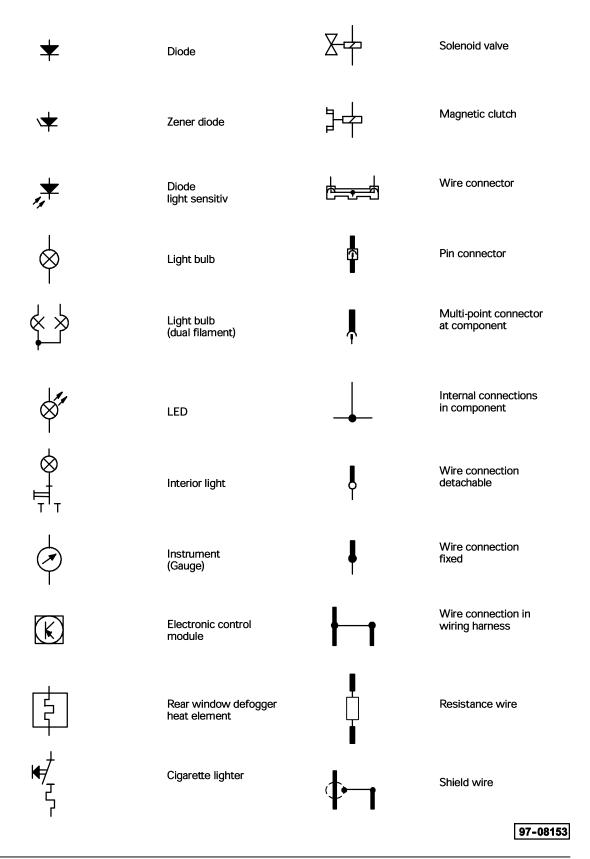
17 - Reference of internal connection continuation

Letters indicate where connection continues on the previous and/or next page.

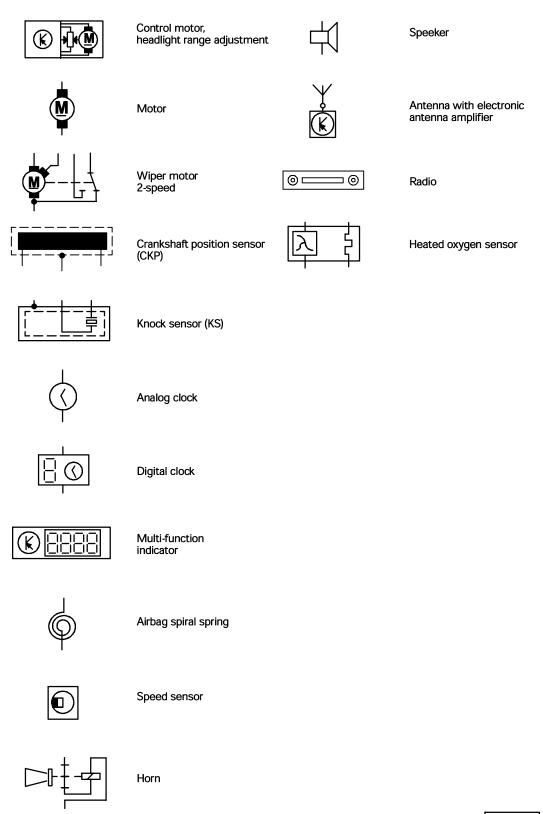
Symbols used in wiring diagrams



Symbols used in wiring diagrams



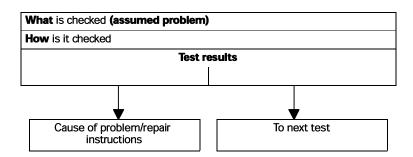
Symbols used in wiring diagrams



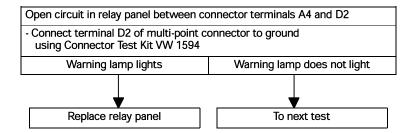
Explanation of troubleshooting procedures

Starting with the reported problem, troubleshooting procedures show step-by-step **what** is checked and **how** it is checked in order to find the problem in the quickest and most reliable way. If several causes (of a problem) are possible in one system, a test procedure is used for diagnosis.

Structure of a Test step:



Example of a troubleshooting procedure:



Passat (2.8L-Engine - Motronic Multiport Fuel Injection (MFI)/128kW), code AAA, from August 1994

	Diagram Title	Num/Page
-	Passat (2.8L-Engine - Motronic Multiport Fuel Injection (MFI)/128kW), code AAA, from August 1994	02/01
-	Battery, ignition/starter switch	01/02
-	Fresh air blower	01/03
-	Coolant fan, two speeds	03/01
-	Generator (GEN), starter, fuel pump (FP), fuel level sensor	02/02
-	Ignition system, motronic engine control module (ECM), heated oxygen sensor (HO2S), heated oxygen sensor (HO2S) relay	02/03
-	Motronic engine control module (ECM), knock sensors, throttle position (TP) sensor, engine coolant temperature (ECT) sensor	02/04
-	Motronic engine control module (ECM), injectors, mass air flow (MAF) sensor	02/05
-	Motronic engine control module (ECM), EGR vacuum regulator solenoid valve, EGR temperature sensor	02/06
-	Motronic engine control module (ECM) power supply relay, secondary air injection (AIR) system	02/07
-	Instrument cluster, engine coolant level/temperature (ECL/ECT) warning light, visual and acoustical oil pressure control, odometer display, fuel gauge	02/09
-	Instrument cluster, tachometer	01/05
-	Instrument cluster, digital clock	01/06
-	<u>Instrument cluster</u> , outside air temperature sensor, parking brake warning light switch and <u>brake fluid level warning light switch</u>	01/07
-	Interior light, luggage compartment light, radio/parking light warning buzzer, seat belt warning system relay, door contact switch	01/08
-	Data link Connector (DLC) wire connection, radio connection, cigarette lighter, ashtray light	01/09
-	Headlights, front side markers, headlight dimmer flasher switch	01/10
-	Turn signal and emergency flasher system, parking light switch	01/11
-	Tail lights, brake lights, turn signal lights	01/12
-	Light switch, right front turn signal light	01/13
-	Fog lights, license plate lights, back-up lights	01/14
-	Rear window defogger heat element, dual horns	01/15
-	Windshield wiper/washer system	01/16
-	Rear window wiper/washer system, ABS warning light, airbag malfunction indicator lamp (MIL), brake and parking brake warning light	01/17

Passat (1.9L-Engine - Turbo Diesel Fuel Injection (DFI)/55kW), code AAZ, from August 1994

	Diagram Title	Num/Page
-	Passat (1.9L-Engine - Turbo Diesel Fuel Injection (DFI)/55kW), code AAZ, from August 1994	17/01
-	Battery, ignition/starter switch	01/02
-	Fresh air blower	01/03
-	Coolant fan, two speeds, 250W, code AAZ, from August 1994	04/01
_	Generator (GEN), starter	17/02
-	Automatic glow time control module, fuel cut-off valve, idle air control (IAC) solenoid, injection start positioner	17/03
-	Spark plugs, engine temperature sensor	17/04
-	Visual and acoustical oil pressure control, positive crankcase ventilation (PCV) heating element, fuel gauge	17/05
-	<u>Instrument cluster, tachometer</u>	01/05
-	Instrument cluster, digital clock	01/06
-	<u>Instrument cluster</u> , outside air temperature sensor, parking brake warning light switch and <u>brake fluid level warning light switch</u>	01/07
-	Interior light, luggage compartment light, radio/parking light warning buzzer, seat belt warning system relay, door contact switch	01/08
-	Data link Connector (DLC) wire connection, radio connection, cigarette lighter, ashtray light	01/09
-	Headlights, front side markers, headlight dimmer flasher switch	01/10
-	Turn signal and emergency flasher system, parking light switch	01/11
-	Tail lights, brake lights, turn signal lights	01/12
-	Light switch, right front turn signal light	01/13
-	Fog lights, license plate lights, back-up lights	01/14
-	Rear window defogger heat element, dual horns	01/15
-	Windshield wiper/washer system	01/16
-	Rear window wiper/washer system, ABS warning light, airbag malfunction indicator lamp (MIL), brake and parking brake warning light	01/17

Passat (2.0L-Engine - Motronic Multiport Fuel Injection (MFI)/85kW), code ABA, from February 1995

	Diagram Title	Num/Page
-	Passat (2.0L-Engine - Motronic Multiport Fuel Injection (MFI)/85kW), code ABA, from February 1995	24/01
-	Battery, ignition/starter switch	01/02
-	Fresh air blower	01/03
-	Coolant fan, two speeds	03/01
-	Generator (GEN), starter, fuel pump (FP), fuel level sensor	24/02
-	Motronic engine control module (ECM), heated oxygen sensor (HO2S) relay, heated oxygen sensor (HO2S), fuel pump (FP) relay	24/03
-	Motronic engine control module (ECM), knock sensor (KS), throttle position (TP) sensor, engine coolant temperature (ECT) sensor, intake air temperature (IAT) sensor, EGR temperature sensor	<u>24/04</u>
-	Motronic engine control module (ECM), injectors, idle air control (IAC) valve, mass air flow (MAF) sensor	<u>24/05</u>
-	Motronic engine control module (ECM), motronic engine control module (ECM) power supply relay, engine speed (RPM) sensor	<u>24/06</u>
-	Speedometer vehicle speed sensor (VSS), outside air temperature sensor, oil temperature sensor, oil pressure switch	<u>24/07</u>
-	Instrument cluster, engine coolant level/temperature (ECL/ECT) warning light, visual and acoustical oil pressure control, fuel gauge, odometer display	<u>24/08</u>
-	Instrument cluster, speedometer, multi-function indicator memory switch	24/09
-	Instrument cluster, tachometer	01/05
-	Instrument cluster, digital clock	01/06
-	<u>Instrument cluster</u> , outside air temperature sensor, parking brake warning light switch and <u>brake fluid level warning light switch</u>	01/07
-	Interior light, luggage compartment light, radio/parking light warning buzzer, seat belt warning system relay, door contact switch	01/08
-	Data link Connector (DLC) wire connection, radio connection, cigarette lighter, ashtray light	01/09
-	Headlights, front side markers, headlight dimmer flasher switch	01/10
-	Turn signal and emergency flasher system, parking light switch	01/11
-	Tail lights, brake lights, turn signal lights	01/12
-	Light switch, right front turn signal light	01/13
-	Fog lights, license plate lights, back-up lights	01/14
-	Rear window defogger heat element, dual horns	01/15
-	Windshield wiper/washer system	01/16
-	Rear window wiper/washer system, ABS warning light, airbag malfunction indicator lamp (MIL), brake and parking brake warning light	01/17

Common Systems

	Diagram Title	Num/Page
-	Airbag, from August to September 1994	25/01
-	Airbag, from October	18/01
-	Air conditioning, 2.8L Engine-Motronic Multiport Fuel Injection (MFI)/128kW, code AAA, from August 1994	06/01
-	Air conditioning, 2.0L Engine-Motronic Multiport Fuel Injection (MFI)/85kW, code ABA, from February 1995	26/01
-	Air Conditioning, 1.9L Engine-Turbo Diesel Fuel Injection (DFI)/55kW, code AAZ, from August 1994	05/01
-	Anti-lock brake system (ABS) with electronic differntial lock (EDL), from August 1994	13/01
-	Automatic transmission, from August 1994	19/01
-	Automatic transmission, 2.8L Engine - Motronic Mulitport Fuel Injection (MFI)/128kW, code AAA, from January 1995	27/01
-	Automatic transmission, 2.0L Engine - Motronic Multiport Fuel Injection (MFI)/85kW, code ABA, from January 1995	<u>27/01</u>
-	Central locking system and anti-theft alarm system, from August 1994	15/01
-	Coolant fan, three speeds, 450W, code AAZ, from August 1994	22/01
-	Coolant fan, three speeds, 450W, code AAA, from August 1994	21/01
-	Coolant fan, two speeds, 250W, code AAA, from August 1994	03/01
-	Coolant fan, two speeds, 250W, code AAZ, from August 1994	04/01
-	Cruise control, from August 1994	14/01
-	Daytime running lights only Canada, from August 1994	23/01
-	<u>Dual horns, from August 1995</u>	01/15
-	Front and rear power windows, from August 1994	07/01
-	Heated seats, from August 1994	08/01
-	Heated power mirrors, from August 1994	10/01
-	Heated washer nozzles, from August 1994	11/01
-	Interior light with delay switch, rear reading lights, make-up mirror lights from August 1994	09/01
-	Power sunroof, from August 1994	16/01
-	Rear window wiper/washer system, from August 1994	01/17
-	Stereo radio with CD-changer and eight speakers, from August 1994	20/01
_	Trunk lid release, sedan only, from August 1994	12/01

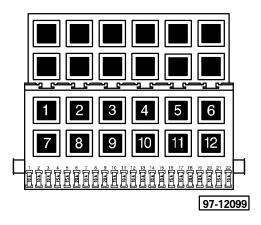
Passat Wiring diagram No.1/1

Passat - Standard Equipment,

from August 1994

Relay location

For relay location and multiple connectors see also section "component locations".

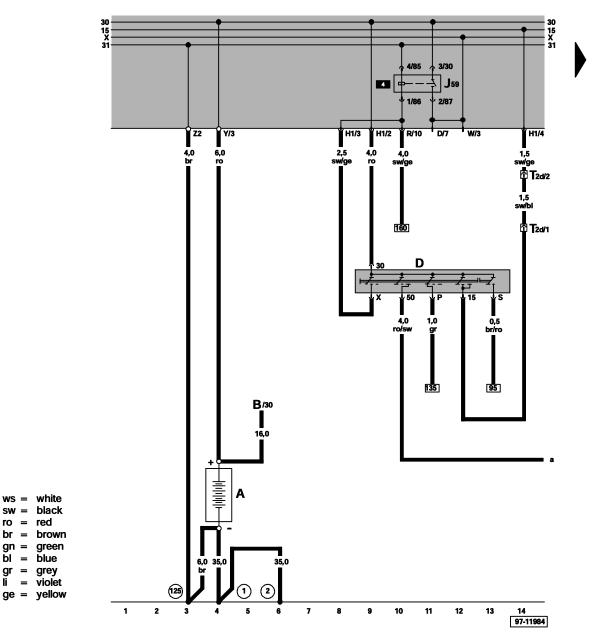


- 2 Rear Window Wiper/Washer Relay (72)
- 4 Load Reduction Relay (18)
- 6 Emergency Flasher Relay (21)
- 8 Washer/Wiper Intermittent Relay (19, 99)
- Warning Buzzer for Parking Light and Radio (36)
- 11 Dual Horn Relay (53)
 - Seat Belt Warning System Relay (4)

Note: Number in parentheses indicates production control number stamped on relay housing.

Fuse colors

30A - green 25A - white 20A - yellow 15A - blue 10A - red



Α - Battery

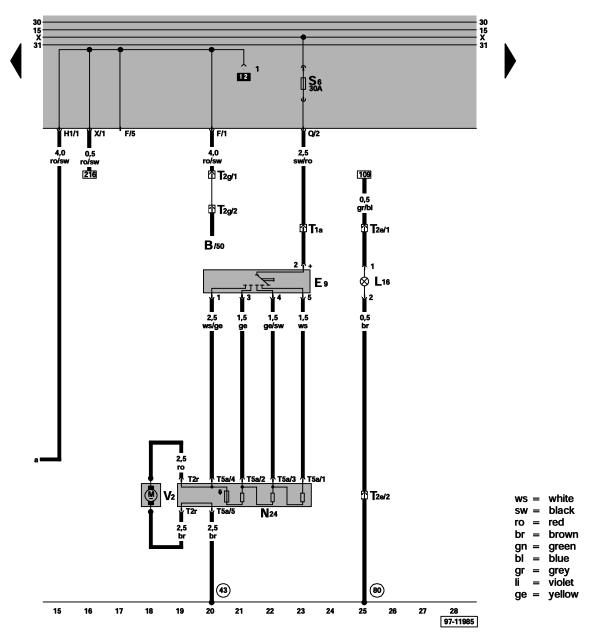
В - Starter

D – Ignition/Starter Switch
J59 – Load Reduction Relay
T2d – Double Connector, behind fuse/relay panel

- Ground strap, battery to body

- Ground strap, transmission to body

Ground connection -3-, in headlight wiring harness



В - Starter

- Fresh Air Blower Switch

L16 - Fresh Air Control Lever Light

N24 - Fresh Air Blower Series Resistance With **Fuse**

T1a - Single Connector, behind instrument panel, center

T2e - Double Connector, behind instrument panel, center

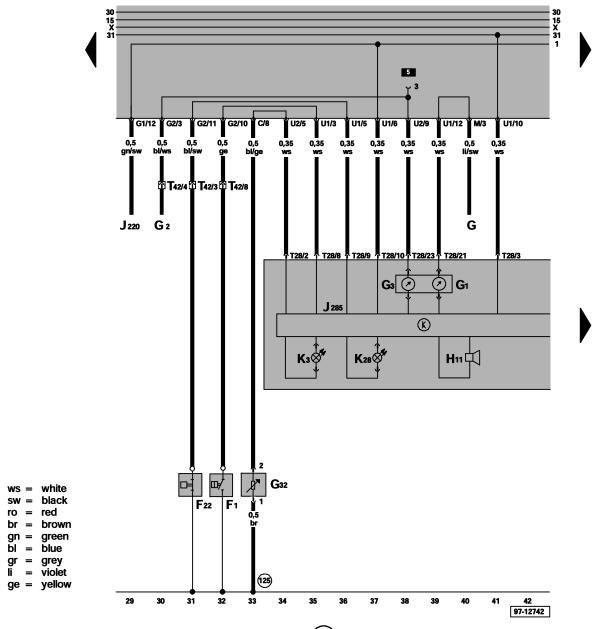
T2g - Double Connector, behind fuse/relay panel

T2r Double Connector

- 5-Pin Connector T5

👛 V2 - Fresh Air Blower 43 Ground connection, on right A-pillar, lower part

80 Ground connection -1-, in instrument panel wiring harness



F1 - Oil Pressure Switch *

F22 - 0.3 Bar Oil Pressure Switch

G - Fuel Level SensorG1 - Fuel Gauge

G2 - Engine Coolant Temperature (ECT) Sensor

G3 - Engine Coolant Temperature (ECT) Gauge

G32 – Engine Coolant Level (ECL) Sensor

H11 - Oil Pressure Warning Buzzer

J220 – Motronic Engine Control Module (ECM)

J285 - Control Module With Display Unit In Instrument Cluster

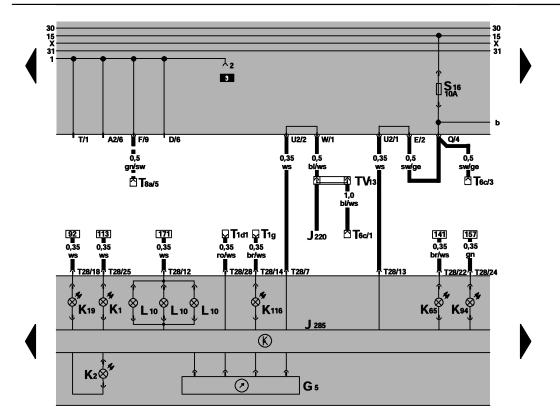
K3 – Oil Pressure Warning LightK28 – Engine Coolant Level/Temperature (ECL/ ECT) Warning Light

T28 - 28-Pin Connector, on instrument cluster

T42 - 42-Pin Connector, on left cylinder head

(125) Ground connection -3-, in headlight wiring harness

Switch levels see Repair Manual Passat 1994 " Engine





50 51 56 97-12743

G5 - Tachometer

J285 - Control Module With Display Unit In Instrument Cluster

K1 - Headlight High Beam Indicator Light

K2 Generator (GEN) Warning Light

K19 - Seat Belt Warning Light

K65 – Left Turn Signal Indicator Light
K94 – Right Turn Signal Indicator Light
K116 – Warning Light For Rear Lid Unlocked,

sedan only

L10 - Instrument Cluster Light

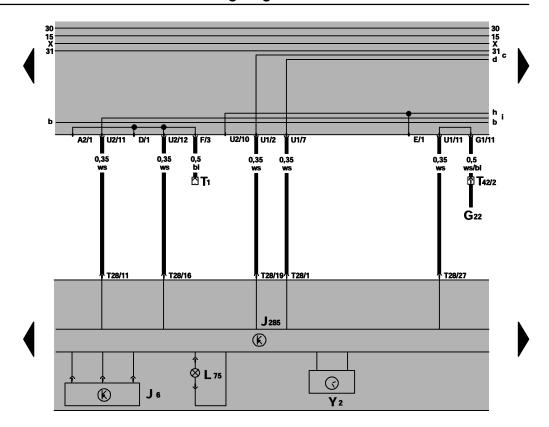
T1d - Single Connector, behind fuse/relay panel T1g - Single Connector, behind fuse/relay panel
 T6c - 6-Pin Connector, behind fuse/relay panel

T8a - 8-Pin Connector, behind fuse/relay panel

T28 - 28-Pin Connector, on instrument cluster

TV13 - Vehicle Speed Signal Wire Connector, above fuse/relay panel

- Automatic transmission only



ws = white sw = black ro = redbr = brown gn = green bl = blue gr = grey li = violet ge = yellow 70 97-12744

(hall generator, on transmission)Voltage Stabilizer

J6

J285 - Control Module With Display Unit In

Instrument Cluster

L75

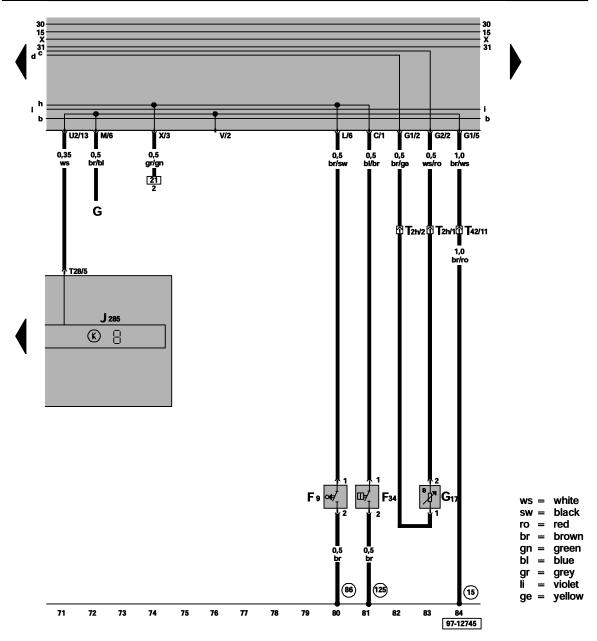
Digital Display Light
Single Connector, near starter
28-Pin Connector, on instrument T28

cluster

T42 - 42-Pin Connector, on left cylinder head

- Digital clock

Full download: http://manualplace.com/download/volkswagen-passat-official-service-manual-1995-97/ Wiring diagram No. 1/7



- Parking Brake Warning Light Switch

★ F34 - Brake Fluid Level Warning Switch

G - Fuel Level Sensor

G17 – Outside Air Temperature Sensor

J285 - Control Module With Display Unit In Instru-

ment Cluster

- Double Connector, in engine compart-T2 ment, right front

T28 – 28-Pin Connector, on instrument cluster
 T42 – 42-Pin Connector, on left cylinder head

15 - Ground connection, on cylinder head

86 Ground connection -1-, in rear wiring harness

Ground connection -3-, in headlight wiring harness