

MAINTENANCE INFORMATION

Article Text

1991 Volkswagen Passat
For Volkswagen Technical Site
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ARTICLE BEGINNING

1990-96 MAINTENANCE
Volkswagen Maintenance Information

Passat

*** PLEASE READ THIS FIRST ***

NOTE: For scheduled maintenance intervals and the related fluid capacities, fluid specifications and labor times for major service intervals, see SCHEDULED SERVICES article in this section. Warranty information and specifications for fluid capacities, lubrication specifications, wheel and tire size, and battery type are covered in this article.

MODEL IDENTIFICATION

VIN LOCATION

The Vehicle Identification Number (VIN) is located on the left side of the dash panel at the base of the windshield. The VIN chart explains the code characters.

VIN CODE ID EXPLANATION

Numbers preceding the explanations in the legend below refer to the sequence of characters as listed on VIN identification label. See VIN example below.

ÜAAA¿
³ (VIN) W V W F B 0 2 5 5 K H 0 9 9 7 1 7 ³
³ 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 ³
AAÜ

1 - Manufacturing Country

W * Germany
1 * United States
3 * Mexico
9 * Brazil

2-3 - Manufacturer

VW * Volkswagen

4 - Series

E * 4-Door CL (1992)
F * 4-Door GL (1990-93)
E * 4-Door GLS (1995-96)
E * 4-Door GLX (1995-96)
F * 4-Door GLX Wagon (1995-96)
G * 4-Door GL Wagon (1990-92)

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- J * 4-Door GLX (1993-94)
- N * 4-Door GLX Wagon (1993-94)

5 - Engine

- A * 2.0L 4-Cyl. 16V SFI Gas, 115 HP (1995-96)
- B * 2.0L 4-Cyl. 16V CIS-E FI Gas, 134 HP (1990-92)
- B * 2.0L 4-Cyl. 16V MFI Gas, 134 HP (1993)
- D * 2.8L V6 Gas MFI, 172 HP (1993)
- E * 2.8L V6 Gas SFI, 172 HP (1995-96)
- F * 2.8L V6 Gas SFI, 172 HP (1994)

6 - Restraint System

- 4 * Electric Passive With Manual Lap
- 8 * Active Driver & Passenger W/Driver & Passenger Air Bag (1995)

7-8 - Model

- 31 * Passat

9 - VIN Check Digit

- 2 * Computer Selected Check Number

10 - Vehicle Model Year

- L * 1990
- M * 1991
- N * 1992
- P * 1993
- R * 1994
- S * 1995
- T * 1996

11 - Assembly Plant

- A * Ingolstadt
- B * Brussels
- E * Emden, Germany (1995)
- G * Graz
- H * Hannover
- K * Osnabruk
- M * Mexico
- N * Neckarsulm
- P * Brazil
- S * Stuttgart
- W * Wolfsburg

12-17 - Serial Number

- * Sequential Production Number

MAINTENANCE SERVICE INFORMATION

SEVERE & NORMAL SERVICE DEFINITIONS

NOTE: Use the Severe Service schedule if the vehicle to be serviced is operated under ANY (one or more) of these conditions:

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Service is recommended at mileage intervals based on vehicle operation. Service schedules are based on the following primary operating conditions:

Normal Service

- * Driven More Than 10 Miles Daily
- * No Operating Conditions From Severe Service Schedule

Severe Service (Unique Driving Conditions)

- * Short Trips In Freezing Temperatures
- * Towing Or Heavily Loaded
- * Severe Dust Conditions
- * Hot Weather, Stop-And-Go Driving
- * Extensive Idling

CAMSHAFT TIMING BELT

CAUTION: Failure to replace a faulty camshaft timing belt may result in serious engine damage.

The condition of camshaft drive belts should always be checked on vehicles which have more than 50,000 miles. Although some manufacturers do not recommend belt replacement at a specified mileage, others require it at 60,000-100,000 miles. A camshaft drive belt failure may cause extensive damage to internal engine components on most engines, although some designs do not allow piston-to-valve contact. These designs are often called "Free Wheeling".

Many manufacturers changed their maintenance and warranty schedules in the mid-1980's to reflect timing belt inspection and/or replacement at 50,000-60,000 miles. Most service interval schedules in this manual reflect these changes.

Belts or components should be inspected and replaced if any of the following conditions exist:

- * Cracks Or Tears In Belt Surface
- * Missing, Damaged, Cracked Or Rounded Teeth
- * Oil Contamination
- * Damaged Or Faulty Tensioners
- * Incorrect Tension Adjustment

Inspect timing belt at 20,000 mile intervals. Replace belt as necessary.

SERVICE POINT LOCATIONS

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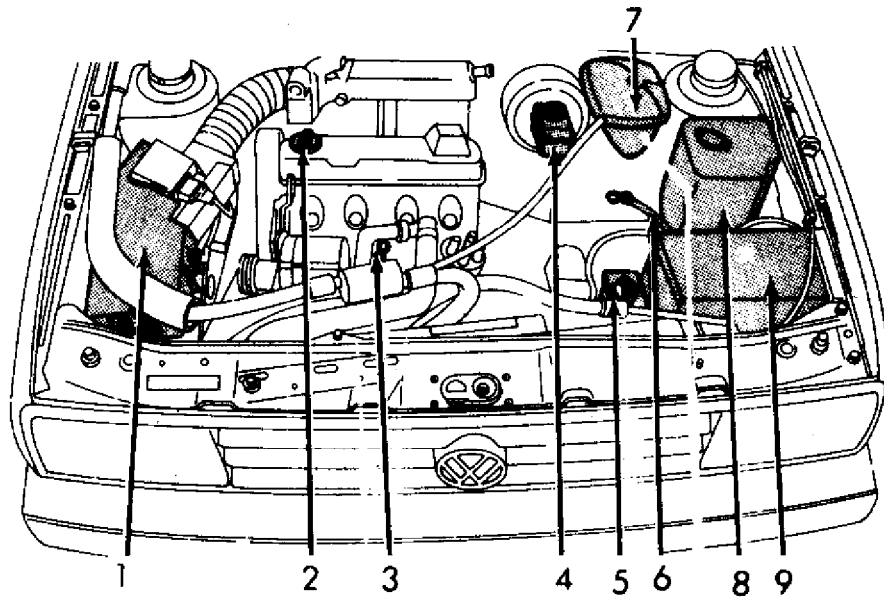
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GASOLINE ENGINE

- | | |
|-----------------------------|------------------------------------|
| 1. Air Cleaner | 6. Automatic Transmission Dipstick |
| 2. Engine Oil Filler Cap | 7. Engine Coolant Expansion Tank |
| 3. Engine Oil Dipstick | 8. Windshield Washer Reservoir |
| 4. Brake Fluid Reservoir | 9. Battery |
| 5. Power Steering Reservoir | 10. Diesel Fuel Filter |

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Fig. 1: Service Point Locations (4-Cylinder)
Courtesy of Volkswagen United States, Inc.

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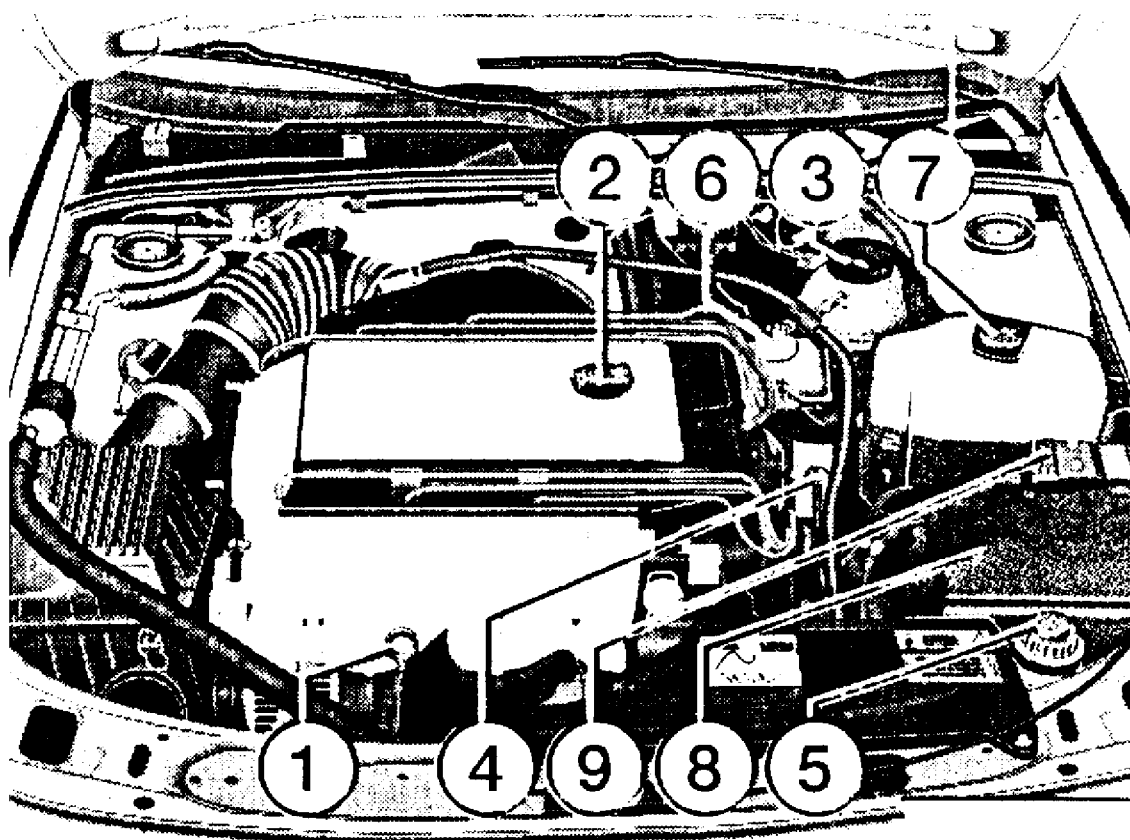
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- 1 - Engine oil dipstick
 - 2 - Engine oil filler cap
 - 3 - Coolant expansion tank
 - 4 - ATF-dipstick*
 - 5 - Power steering reservoir
 - 6 - Brake fluid reservoir
 - 7 - Windshield washer container
 - 8 - Battery (protected by a cover)
 - 9 - Fuse for coolant-fan after run
- (For service use only) **50B11966**

Fig. 2: Service Point Locations (2.8L V6)

Courtesy of Volkswagen United States, Inc.

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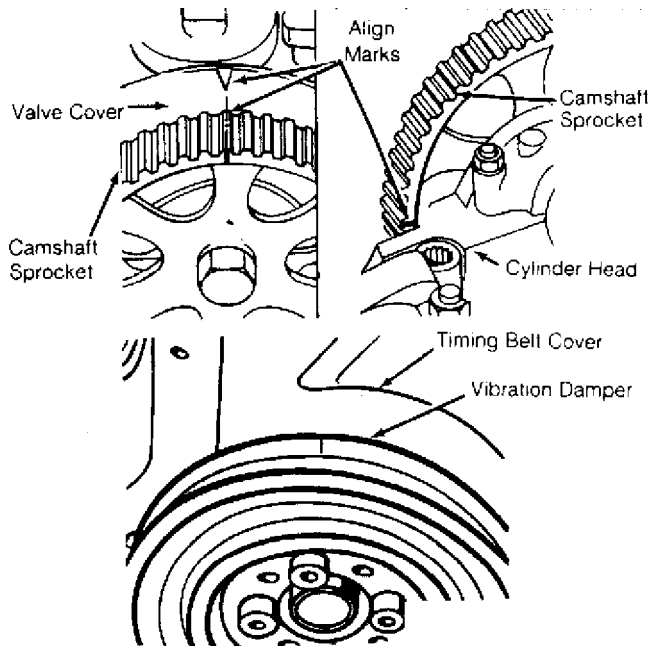


Fig. 3: Aligning 2.0L Timing Marks (16 Valve)
Courtesy of Volkswagen United States, Inc.

NOTE: For more information on camshaft timing belt service refer to the 1.8L 4-CYL 8-VALVE & 2.0L 4-CYL 8-VALVE & 16-VALVE article in the ENGINE MECHANICAL section.

ADDITIONAL SERVICE INFORMATION

PASSENGER COMPARTMENT FILTER REPLACEMENT

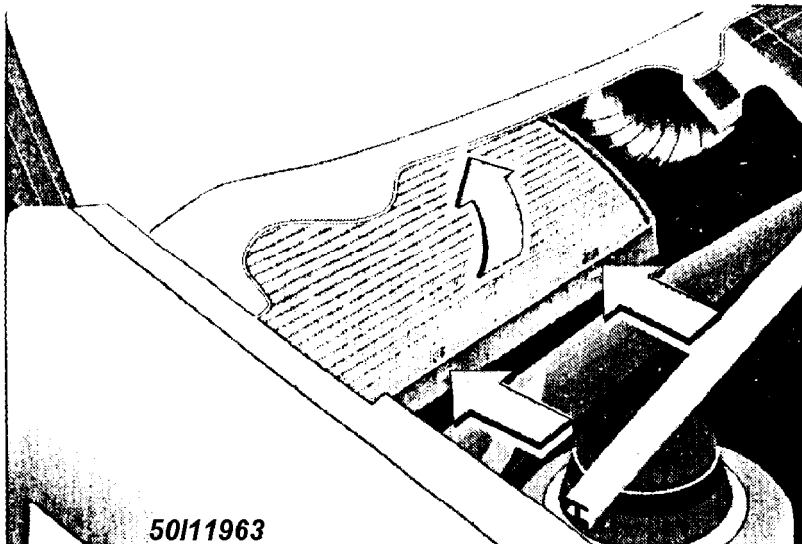


Fig. 4: Passenger Compartment Filter Location
Courtesy of Volkswagen United States, Inc.

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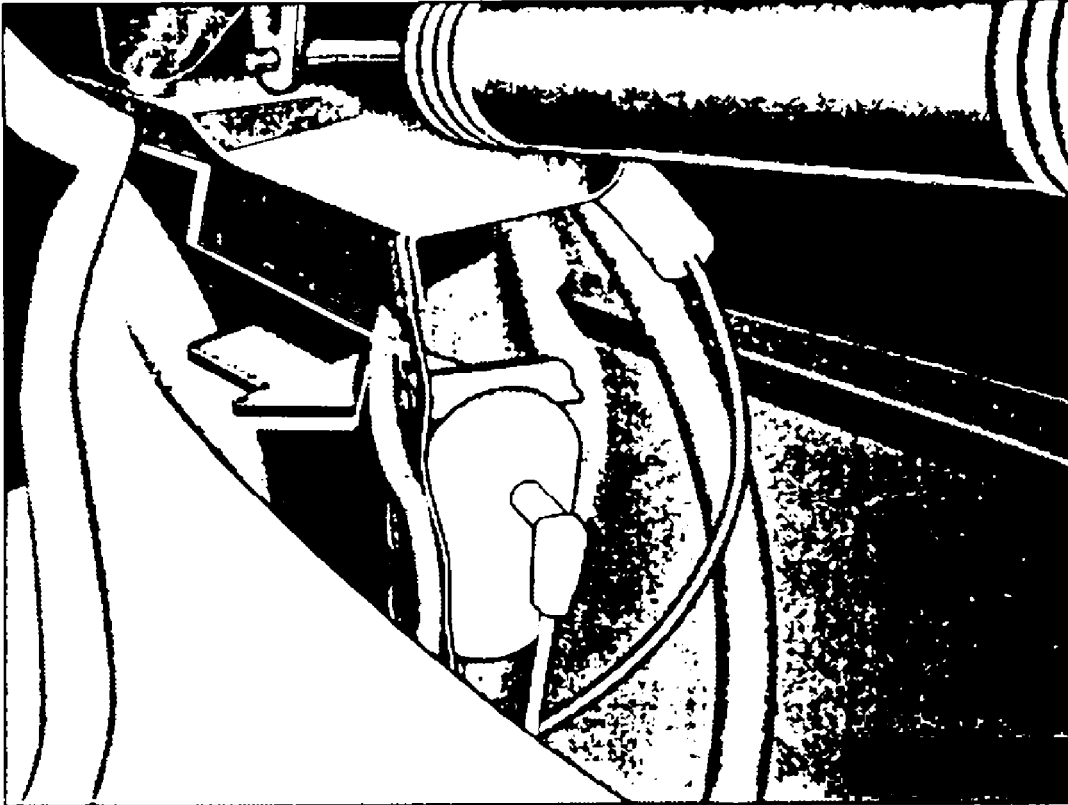
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MANUAL OPENING ELECTRIC FUEL DOOR



Emergency unlocking of fuel tank flap

If the central locking system should fail, you can still open the flap manually:

- Open the rear lid. On the sedan model, unhook the trim panel on the right side near the taillights and remove. On the wagon model, open the flap in the right side trim panel.
- Then push the locking rod in front of the white activator in the direction of the arrow – see illustration.

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Fig. 5: Manual Fuel Door Opener Location
Courtesy of Volkswagen United States, Inc.

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INFORMATION LABEL LOCATIONS

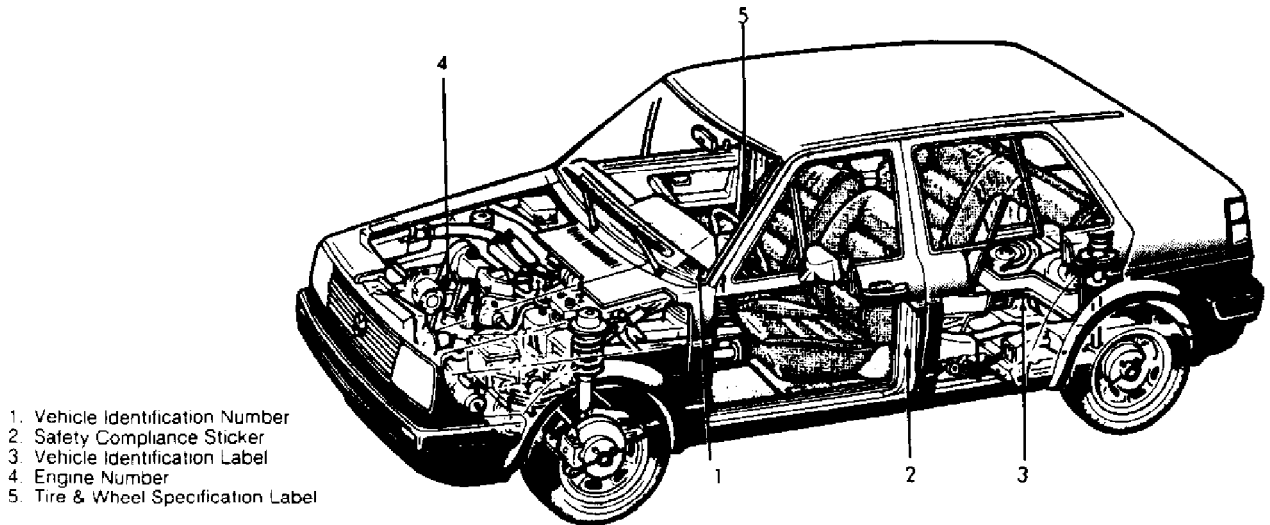


Fig. 6: Information Label Locations (Typical VW)
Courtesy of Volkswagen United States, Inc.

SERVICE LABOR TIMES

SERVICE LABOR TIMES TABLE (HOURS)

Application (1) (2) (3)					
		15,000 Mile Service		30,000 (60,000) Mile Service	
Gasoline Engine					
Automatic Transmission	.....	1.5	.....	3.2	(4.1)
Manual Transmission	.....	1.7	.....	2.6	(3.5)

- (1) - Add .2 hr. if equipped with A/C.
- (2) - Add .1 hr. if equipped with cruise control.
- (3) - Add 2.2 hours on gasoline engines with air conditioning and 1.8 hours on gasoline engines without air conditioning to replace camshaft timing belt.

LUBRICATION SPECIFICATIONS

LUBRICATION SPECIFICATIONS TABLE

Application		Fluid Specifications	
Brake Fluid	SAE J1703 Or DOT 4	Brake Fluid	
Coolant (1)	50/50 Mix	Ethylene Glycol - Water	
Engine Oil (2)			
Ambient Temperatures			
Greater Than 140 F (-100C)	SAE 15W-40 Or 20W-50	API SG/CD	
140-500F (-100 To +100C)	SAE 10W-30 Or 10W-40	API SG/CD	

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Less Than 50°F (10°C) SAE 5W-30 Or 5W-40 API SG/CD
Power Steering Fluid VW Hydraulic Oil
(G 002000) Or Equivalent
Automatic Transmission Dexron-II E ATF Or Equivalent
Manual Transaxle SAE 80W API GL-4 Or
SAE 75W-90 (G50 Synthetic Gear Oil)
Final Drive (A/T & M/T)
(Differential) SAE 75W-90 (G50 Synthetic Gear Oil)
Wheel Bearings NLGI Grade 2 Category GC-LB
Drive Shaft U-Joints NLGI Grade 2 Category GC-LB
Steering Linkage (3)(4) NLGI Grade 2 Category GC-LB
Ball Joints (3)(5) NLGI Grade 2 Category GC-LB
Weatherstrip Dielectric Silicone Grease

- (1) - Lifetime fill - 1993 and later models.
- (2) - SAE 15W-40 or 20W-40 engine oil is recommended for extreme conditions or extended highway operation.
- (3) - Use low pressure grease gun to prevent seal damage.
- (4) - Fill until lubricant squeezes out from the base of seals.
- (5) - Fill ball joint until seal starts to swell.

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FLUID CAPACITIES

FLUID CAPACITIES TABLE

AA

Application	Quantity (1)
A/C R-12 Refrigerant	
1990-92	37-44 0zs.
A/C Refrigerant R-134a (2)	
1993-96	37 0zs.
Cooling System (3)	
1990-94	
2.0L	5.9 Qts. (5.6L)
2.8L V6	9.1 Qts. (8.6L)
1995-96	
2.0L	5.9 Qts. (5.6L)
2.8L V6	9.6 Qts. (9.1L)
Engine Oil (4)	
1990-94	
2.0L	4.3 Qts. (4.0L)
2.8L V6	6.3 Qts. (6.0L)
1995-96	
2.0L	4.3 Qts. (4.0L)
2.8L V6	7.4 Qts. (7.0L)
Fuel Tank	18.5 Gals. (70.0L)
Automatic Transaxle	
Fluid Change	3.2 Qts. (3.0L)
Dry Fill	5.9 Qts. (5.6L)
Final Drive (Differential)	
A/T (5)	0.8 Qt. (.75L)

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M/T 2.1 Qts. (2.0L)

- (1) - Capacities are recommended or calculated levels. Always use dipstick (if available) to measure level.
- (2) - Use of R-12 in a R134a system will result in SEVERE DAMAGE.
- (3) - Lifetime fill - 1993 and later models.
- (4) - Includes filter change.
- (5) - Lifetime fill.

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WHEEL & TIRE SPECIFICATIONS

Wheel and tire sizes vary according to vehicle and equipment and can be found on the tire information label on each vehicle. Wheel and tire specifications and tire inflation pressures are listed on a label found on the right rear door post.

NOTE: Snow chains must be used on drive wheels, in pairs only.

WHEEL & TIRE SPECIFICATIONS TABLE

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Wheel Size	Tire Size
------------	-----------

GL	
14 x 6"	P195/60R-14H

GLX	
15 x 6"	P215/50R-15H

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WHEEL TIGHTENING

Tighten all wheel lugs to 80 ft. lbs. (110 N.m).

BATTERY SPECIFICATIONS

CAUTION: When battery is disconnected, vehicles equipped with computers may lose memory data. When battery power is restored, driveability problems may exist on some vehicles. These vehicles may require a relearn procedure. See COMPUTER RELEARN PROCEDURES article in the GENERAL INFORMATION section.

All models use BCI group 42 batteries with cold crank rating of 360 amps.

CAUTIONS & WARNINGS

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG) - 1995-96 MODELS

NOTE: See the AIR BAGS article in the ACCESSORIES/SAFETY EQUIPMENT Section.

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Modifications or improper maintenance, including incorrect removal and installation of the Supplemental Restraint System (SRS), can adversely affect system performance. DO NOT cover, obstruct or change the steering wheel horn pad in any way, as such action could cause improper function of the system. Use only plain water when cleaning the horn pad. Solvents or cleaners could adversely affect the air bag cover and cause improper deployment of the system.

WARNING: To avoid injury from accidental air bag deployment, read and carefully follow all warnings and service precautions. See appropriate AIR BAGS article in ACCESSORIES/SAFETY EQUIPMENT.

CAUTION: Disconnect negative battery cable before servicing any air bag system, steering column or passenger side dash component. After any repair, turn ignition key to the ON position from passenger's side of vehicle in case of accidental air bag inflation

SUPPLEMENTAL RESTRAINT SYSTEM (SRS) AIR BAR WARNING

NOTE: For information on air bag DIAGNOSIS & TESTING or DISPOSAL PROCEDURES, see AIR BAGS article in the ACCESSORIES/SAFETY EQUIPMENT Section.

System circuit is grounded by 2 screws beneath the driver's seat. DO NOT use these screws to ground any other accessory. DO NOT ground any other components near this system.

AIR CONDITIONING SERVICING (1993 & LATER)

CAUTION: Avoid breathing R-134a refrigerant and PAG lubricant vapors, exposure may irritate eyes, nose and throat. To remove R-134a from system use R-134a recycling equipment that meets SAE J2210 specifications. If accidental system discharge occurs, ventilate work area before resuming service.

WARNING: R-134a service equipment or vehicle A/C systems SHOULD NOT be pressure tested or leak tested with compressed air. Some mixtures of air/R134a have shown to be combustible at elevated pressures. These mixtures are dangerous and may cause fire and/or explosions. See AIR CONDITIONING SERVICE article in GENERAL INFORMATION section.

ANTI-LOCK BRAKE SYSTEM

The anti-lock brake system contains electronic equipment that can be susceptible to interference caused by improperly installed or high output radio transmitting equipment. Since this interference could cause the possible loss of the anti-lock braking capability, such equipment should be installed by qualified professionals.

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On models equipped with anti-lock brake systems, ALWAYS observe the following cautions:

- * DO NOT attempt to bleed hydraulic system without first referring to the appropriate ANTI-LOCK BRAKE SYSTEM article in the BRAKES Section.
- * DO NOT mix tire sizes. As long as tires remain close to the original diameter, increasing the width is acceptable. Rolling diameter must be identical for all 4 tires. Some manufacturers recommend tires of the same brand, style and type. Failure to follow this precaution may cause inaccurate wheel speed readings.
- * Use ONLY recommended brake fluids. DO NOT use silicone brake fluids in an ABS-equipped vehicle.

BATTERY WARNING

WARNING: When battery is disconnected, vehicles equipped with computers may lose memory data. When battery power is restored, driveability problems may exist on some vehicles. These vehicles may require a relearn procedure. See COMPUTER RELEARN PROCEDURES article in GENERAL INFORMATION section.

REPLACING BLOWN FUSES

Before replacing a blown fuse, remove ignition key, turn off all lights and accessories to avoid damaging the electrical system. Be sure to use fuse with the correct indicated amperage rating. The use of an incorrect amperage rating fuse may result in a dangerous electrical system overload.

BRAKE PAD REPLACEMENT

WARNING: Use caution when checking and/or changing brake pads, some pads may contain asbestos which can irritate eyes and may cause other health hazards. A water based solution should be used to clean brake dust from wheel and brake components. DO NOT use compressed air to blow off brake dust.

BRAKE SYSTEM

CAUTION: If brake warning light comes on while driving it indicates a low fluid level or failure in one of the braking circuits. If the brake pedal can be depressed further than normal it is an indication that one of the brake circuits is not functioning. Stop vehicle and check brake reservoir fluid level. If level is below MIN mark, DO NOT drive vehicle. Have it towed to a repair shop. If level is between the MIN and MAX marks, proceed cautiously to a repair shop.

BRAKE PAD WEAR INDICATOR

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Indicator will cause a squealing or scraping noise, warning that brake pads need replacement.

BRAKE PEDAL PRESSURE WITH ENGINE NOT RUNNING

CAUTION: Brake pedal requires extreme pressure to stop the vehicle when the engine is not running.

CATALYTIC CONVERTER

Continued operation of vehicle with a severe malfunction could cause converter to overheat, resulting in possible damage to converter and vehicle.

Any modification to the exhaust system on turbo models, which reduces exhaust backpressure, will lead to lean fuel mixtures and excessive spark advance. This could cause serious engine damage.

COOLANT (PROPYLENE-GLYCOL FORMULATIONS)

NOTE: Manufacturer recommends that coolant from factory for 1993 and later models is permanent, and does not need to be changed.

CAUTION: To avoid possible damage to vehicle use only ethylene-glycol based coolants with a mixture ratio from 44-68% anti-freeze. DO NOT use 100% anti-freeze as it will cause the formation of cooling system deposits. This results in coolant temperatures of over 300° F (149°C) which can melt plastics. 100% anti-freeze has a freeze point of only -8° F (-22°C).

CAUTION: Propylene-Glycol Mixtures has a smaller temperature range than Ethylene-Glycol. The temperature range (freeze-boil) of a 50/50 Anti-Freeze/Water Mix is as follows:

Propylene-Glycol -26° F (-32°C) - 257° F (125°C)

Ethylene-Glycol -35° F (-37°C) - 263° F (128°C)

CAUTION: Propylene-Glycol/Ethylene-Glycol Mixtures can cause the destabilization of various corrosion inhibitors. Also Propylene-Glycol/Ethylene-Glycol has a different specific gravity than Ethylene-Glycol coolant, which will result in inaccurate freeze point calculations.

ELECTROSTATIC DISCHARGE SENSITIVE (ESD) PARTS

WARNING: Many solid state electrical components can be damaged by static electricity (ESD). Some will display a warning label, but many will not. Discharge personal static electricity by touching a metal ground point on the vehicle prior to servicing any ESD sensitive component.

ELECTRIC SHOCK HAZARD

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WARNING: Contact with live components of ignition system while engine is running could lead to a fatal electric shock.

ENGINE OIL

CAUTION: Never use non-detergent or straight mineral oil.

FUEL SYSTEM SERVICE

WARNING: Relieve fuel system pressure prior to servicing any fuel system component (fuel injection models).

HALOGEN BULBS

Halogen bulbs contain pressurized gas which may explode if overheated. DO NOT touch glass portion of bulb with bare hands. Eye protection should be worn when handling or working around halogen bulbs.

RADIATOR CAP

CAUTION: Always disconnect the fan motor when working near the radiator fan. The fan is temperature controlled and could start at any time even when the ignition key is in the OFF position. DO NOT loosen or remove radiator cap when cooling system is hot.

RADIATOR FAN

WARNING: Keep hands away from radiator fan. Fan is controlled by a thermostatic switch which may come on or run for up to 15 minutes even after engine is turned off.

WHEELS & TIRES

Only wheels tested and approved by the manufacturer should be used on models equipped with Air Dam aerodynamic components.

WARRANTY INFORMATION

CAUTION: Due to the different warranties offered in various regions and the variety of after-market extended warranties available, please refer to the warranty package that came with the vehicle to verify all warranty options.

BASIC NEW CAR WARRANTY

The manufacturer warrants that every vehicle imported and sold as a new vehicle to a retail customer will be free of defects in material and workmanship for 2 years or 24,000 miles, whichever comes first, after the date of delivery to the first retail customer, or

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after the vehicle was first placed in service.

LIMITED POWER TRAIN WARRANTY

Covers the engine, transmission and drivetrain for a period of 5 years or 50,000 miles, whichever occurs first.

ANTI-CORROSION

Covers holes caused by corrosion in body sheet metal for 6 years, without respect to mileage, so long as the inspection and maintenance services are performed.

EMISSION CONTROL SYSTEM (ALL MODELS)

Manufacturer warrants that this vehicle is designed, built, and equipped so as to conform at the time of sale with all U.S. and California Air Resources Board emission regulations applicable at the time of manufacture and that this vehicle is free from defects in materials and workmanship which cause it to fail to conform with applicable regulations within the first 5 years or 50,000 miles, whichever occurs first.

EMISSION CONTROL SYSTEM (CALIFORNIA ONLY)

Vehicles are warranted against failure to conform with applicable standards for 3 years or 50,000 miles, whichever occurs first, under the Performance Warranty. The warranty covers defective emission-related parts for 7 years or 70,000 miles, whichever occurs first.

ROADSIDE ASSISTANCE

Included in the Warranty is a 2-Year 24 Hour Roadside Assistance program.

NOTE: The phone number is 1-800-423-3964

FUSES & CIRCUIT BREAKERS

The fuse panel is located under the left side of the dash board by the driver's knee.

NOTE: On all models, fuse specifications are listed on inside of panel cover.

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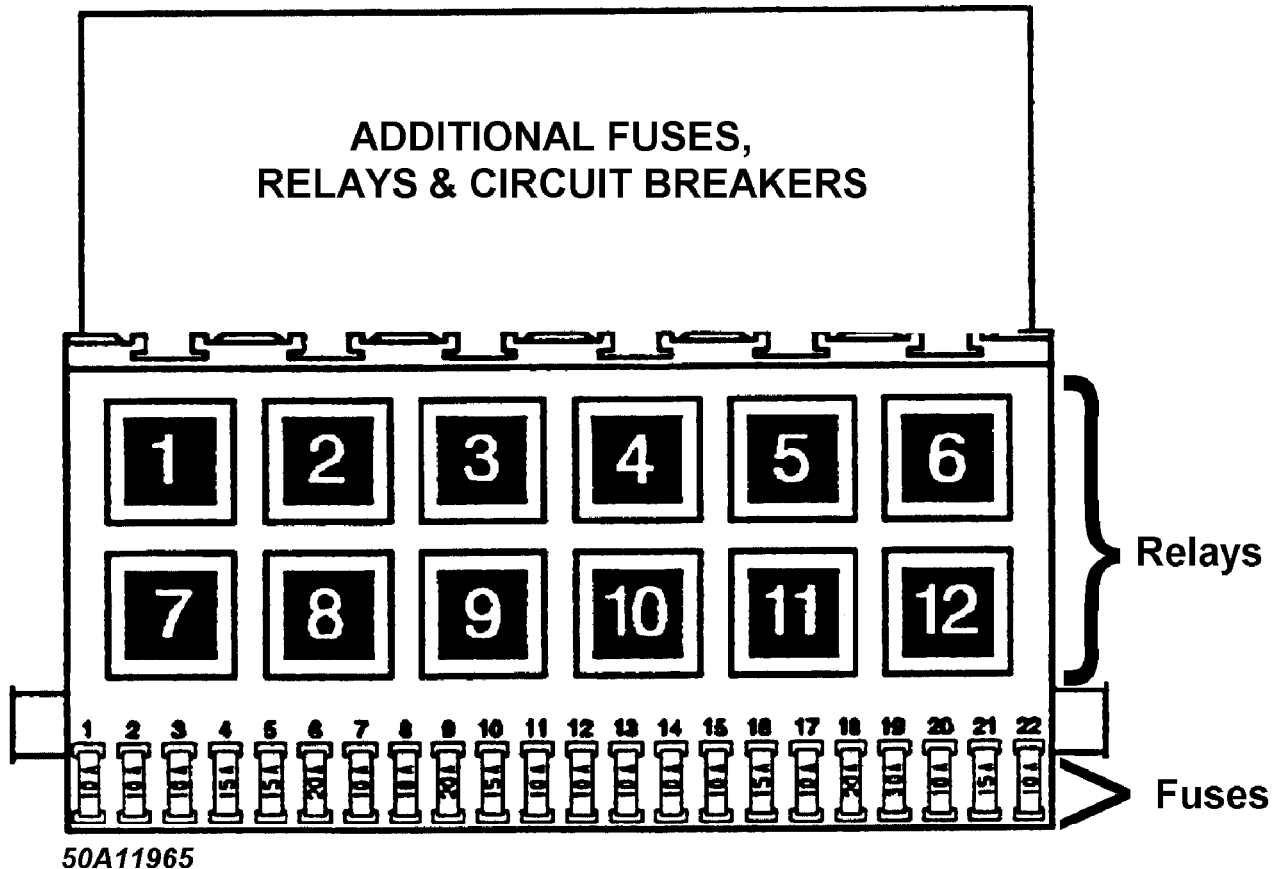


Fig. 7: Fuse Panel Identification (1990-94)
Courtesy of Volkswagen United States, Inc.

Fuse & Circuit Breaker Identification

- 1 - 10 Amp (Red)
Left Headlight Low Beam
- 2 - 10 Amp (Red)
Right Headlight Low Beam
- 3 - 10 Amp (Red)
Instrument & License Lights
- 4 - 15 Amp (Blue)
Rear Window Wiper
- 5 - 15 Amp (Blue)
Windshield Wiper/Washer, Rear Washer
- 6 - 20 Amp (Yellow)
A/C, Fresh Air Fan
- 7 - 10 Amp (Red)
Right Tail Light & Side Marker Light
- 8 - 10 Amp (Red)
Left Taillight & Side Marker Light
- 9 - 20 Amp (Yellow)
Rear Window Defroster, Mirror Heater
- 10 - 15 Amp (Blue)
Fog Lamps

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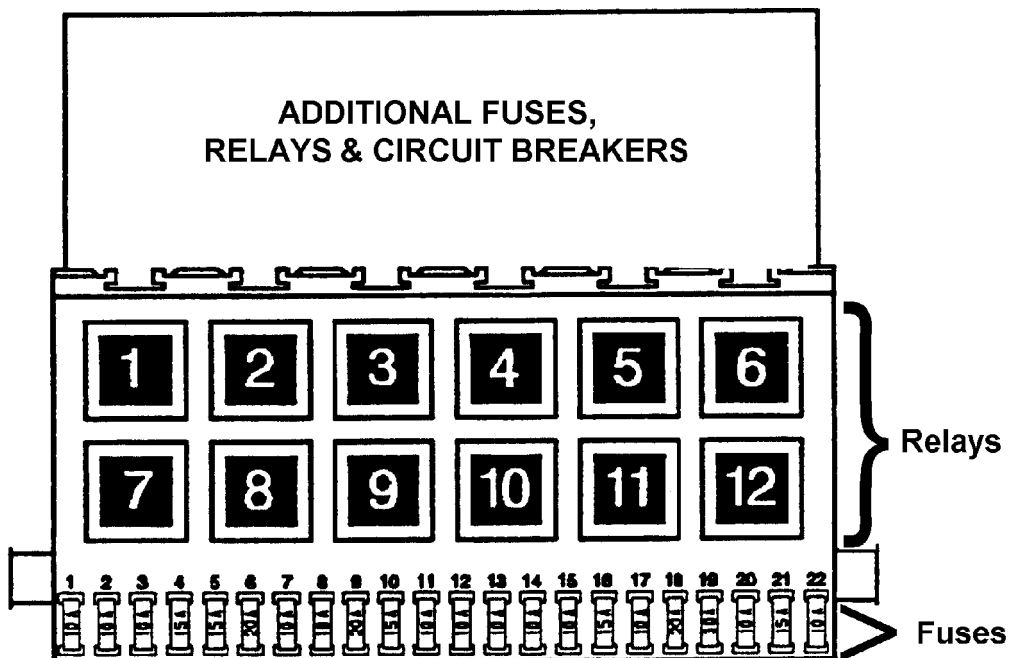
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- 11 - 10 Amp (Red)
Left Headlight High Beam & High Beam Indicator
- 12 - 10 Amp (Red)
Right Headlight High Beam
- 13 - 10 Amp (Red)
Horn, Radiator Fan Run-on
- 14 - 15 Amp (Blue)
Backup Lights (M/T), Power Mirrors, Heated Front Seats,
Heated Windshield Washer Jets, Cruise Control (M/T)
- 15 - 10 Amp (Red)
Engine Electronics, Coolant Pump Run-on (V6 Models)
- 16 - 15 Amp (Blue)
Warning/Indicator Lights, Glove Box Light,
Cassette Storage Light, Shift Pattern Illumination (A/T)
- 17 - 10 Amp (Red)
Turn Signals
- 18 - 20 Amp (Yellow)
Fuel Pump, Oxygen Sensor
- 19 - 30 Amp (Green)
A/C, Radiator Cooling Fan
- 20 - 10 Amp (Red)
Brake Lights, Cruise Control System
- 21 - 15 Amp (Blue)
Dome & Luggage Lamps, Cigar Lighter, Central Locking System,
Multi-Function Indicator, Vanity Mirror, Clock
- 22 - 10 Amp (Red)
Radio, CD Changer



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Fig. 8: Relay Panel Identification (1990-94)

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Fuse, Relay & Circuit Breaker Identification

- 1 - A/C Control Module Relay
- 2 - Rear Window Wiper/Washer Relay
- 3 - ECM Power Supply Relay
- 4 - Load Reduction Relay
- 5 - Engine Coolant Temperature/Low Coolant Relay
- 6 - Emergency Flasher Relay
- 7 - Headlight Washer Relay
- 8 - Washer/Wiper Intermittent Relay
- 9 - Radio/Parking Light Warning Buzzer Relay
- 10 - Fog Lamp/Parking Lamp Relay
- 11 - Dual Horn Relay
- 12 - Fuel Pump Relay

Additional Fuse Identification

WARNING: Always disconnect battery ground cable before servicing "high-current fuses. It is recommended that "high-current" fuses be replaced by a qualified technician.

NOTE: Located above Relays in passenger compartment.

- 30 Amp Fuse
 - ABS Hydraulic Pump Relay
- 30 Amp Fuse
 - ABS Main Relay
- 30 Amp Fuse
 - A/C
- 30 Amp Fuse
 - ABS System
- 20 Amp (Circuit Breaker)
 - Power Windows
- 30 Amp Fuse
 - Passive Restraint System
- 5 Amp Fuse
 - Back-up Lights (A/T)
- 5 Amp Fuse
 - Cruise Control (A/T)

NOTE: Located under the rear seat.

CAUTION: The (2) passive restraint fuses should only be serviced by a Volkswagen dealer.

- 5 Amp (2 Fuses)
 - Passive Restraint System

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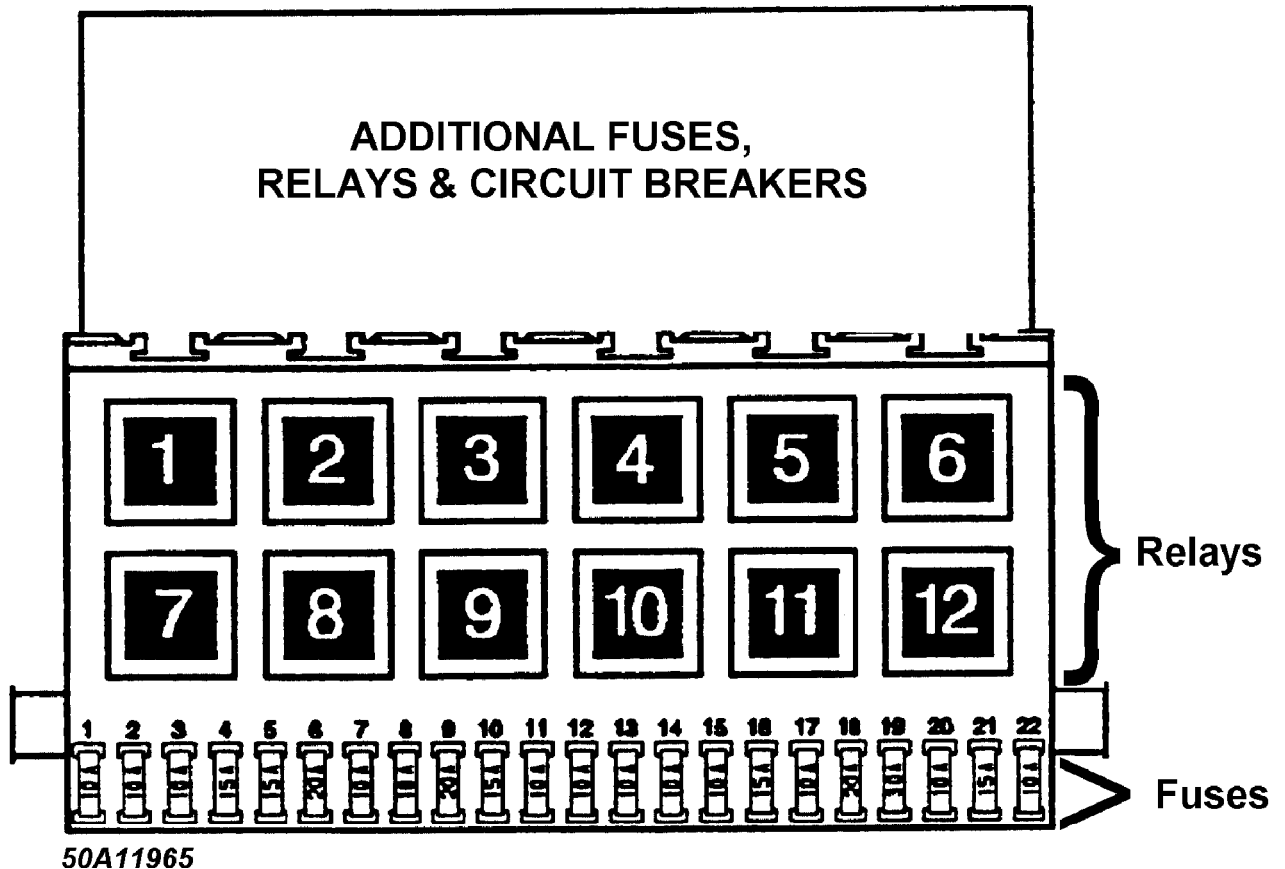


Fig. 9: Fuse Panel Identification (1995-96)
Courtesy of Volkswagen United States, Inc.

Fuse & Circuit Breaker Identification

- 1 - 10 Amp (Red)
Left Headlight Low Beam
- 2 - 10 Amp (Red)
Right Headlight Low Beam
- 3 - 10 Amp (Red)
Instrument & License Lights
- 4 - 15 Amp (Blue)
Rear Window Wiper/Washer, ABS
- 5 - 15 Amp (Blue)
Windshield Wiper/Washer
- 6 - 30 Amp (Green)
A/C, Fresh Air Fan
- 7 - 10 Amp (Red)
Right Tail Light & Side Marker Light
- 8 - 10 Amp (Red)
Left Taillight & Side Marker Light
- 9 - 20 Amp (Yellow)
Rear Window Defroster, Mirror Heater
- 10 - 15 Amp (Blue)
Fog Lamps

MAINTENANCE INFORMATION

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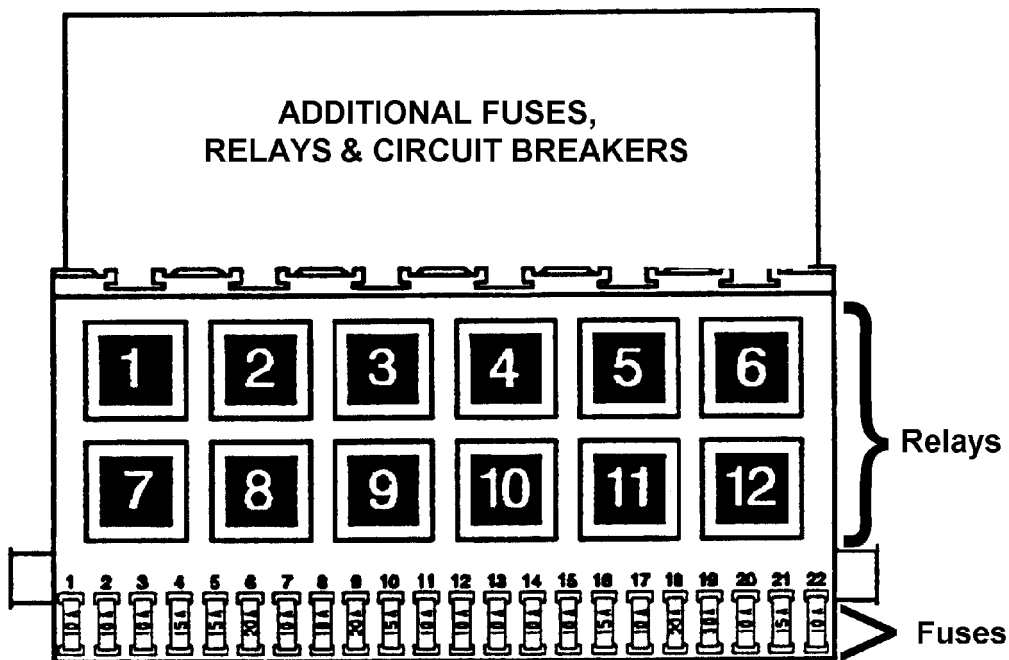
1991 Volkswagen Passat

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- 11 - 10 Amp (Red)
Left Headlight High Beam & High Beam Indicator
- 12 - 10 Amp (Red)
Right Headlight High Beam
- 13 - 10 Amp (Red)
Horn
- 14 - 10 Amp (Red)
Backup Lights, Heated Washer Nozzles (1995-96)
Heated Front Seats, Cruise Control
- 15 - 10 Amp (Red)
Engine Electronics
- 16 - 15 Amp (Blue)
Warning/Indicator Lights, ABS, Sunroof
- 17 - 10 Amp (Red)
Turn Signals
- 18 - 20 Amp (Yellow)
Fuel Pump
- 19 - 30 Amp (Green)
A/C, Radiator Cooling Fan
- 20 - 10 Amp (Red)
Brake Lights
- 21 - 15 Amp (Blue)
Dome & Luggage Lamps, Cigar Lighter, Central Locking System,
Multi-Function Indicator, Vanity Mirror, OBD Diagnostic,
Sunroof
- 22 - 10 Amp (Red)
Clock, Radio, CD Changer



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Fig. 10: Relay Panel Identification (1995-96)

Courtesy of Volkswagen United States, Inc.

MAINTENANCE INFORMATION

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Fuse, Relay & Circuit Breaker Identification

- 1 - A/C Control Module Relay
- 2 - Rear Window Wiper/Washer Relay
- 3 - ECM Power Supply Relay
- 4 - Load Reduction Relay
- 5 - Engine Coolant Temperature/Low Coolant Relay
- 6 - Emergency Flasher Relay
- 7 - Headlight Washer Relay
- 8 - Washer/Wiper Intermittent Relay
- 9 - Radio/Parking Light Warning Buzzer Relay
- 10 - Fog Lamp/Parking Lamp Relay
- 11 - Dual Horn Relay
- 12 - Fuel Pump Relay

Additional Fuse Identification

WARNING: Always disconnect battery ground cable before servicing "high-current fuses. It is recommended that "high-current" fuses be replaced by a qualified technician.

NOTE: Located above Relays in passenger compartment.

- 30 Amp Fuse
 - ABS Hydraulic Pump Relay
- 30 Amp Fuse
 - ABS Main Relay
- 30 Amp Fuse
 - A/C
- 30 Amp Fuse
 - ABS System
- 20 Amp (Circuit Breaker)
 - Power Windows
- 5 Amp Fuse
 - Cruise Control

NOTE: Located on left side of engine compartment, near battery.

- 1 - 50 Amp
 - Radiator Fan

END OF ARTICLE