

## **SCHEDULED SERVICES**

### **Article Text**

1991 Volkswagen Passat  
For Volkswagen Technical Site  
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Wednesday, August 25, 1999 08:59PM

#### **ARTICLE BEGINNING**

1990-96 MAINTENANCE

Volkswagen Maintenance & Service Intervals

Passat

#### **\* PLEASE READ THIS FIRST \***

**NOTE:** All SERVICE SCHEDULES are listed for normal service vehicles. If vehicle is operated under severe service conditions, see SEVERE SERVICE REQUIREMENTS (PERFORM W/SERVICE SCHEDULES) for items requiring additional maintenance.

**NOTE:** This article contains scheduled maintenance service information. Fluid types and capacities listed with each service in this article are only those necessary to perform that scheduled service. For specifications pertaining to fluid capacities for the entire vehicle, fuse and circuit breaker identification, wheel and tire size, battery type, warranty information, or model identification refer to the MAINTENANCE INFORMATION article in this section.

#### **CAUTIONS & WARNINGS**

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

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

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 BAG WARNING**

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**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.

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

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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

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 does not recommend replacing factory coolant in

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1993 and later models, and considers factory coolant to be permanent.

**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

**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

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**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.

#### CAMSHAFT TIMING BELT REPLACEMENT INFORMATION

**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

## SCHEDULED SERVICES

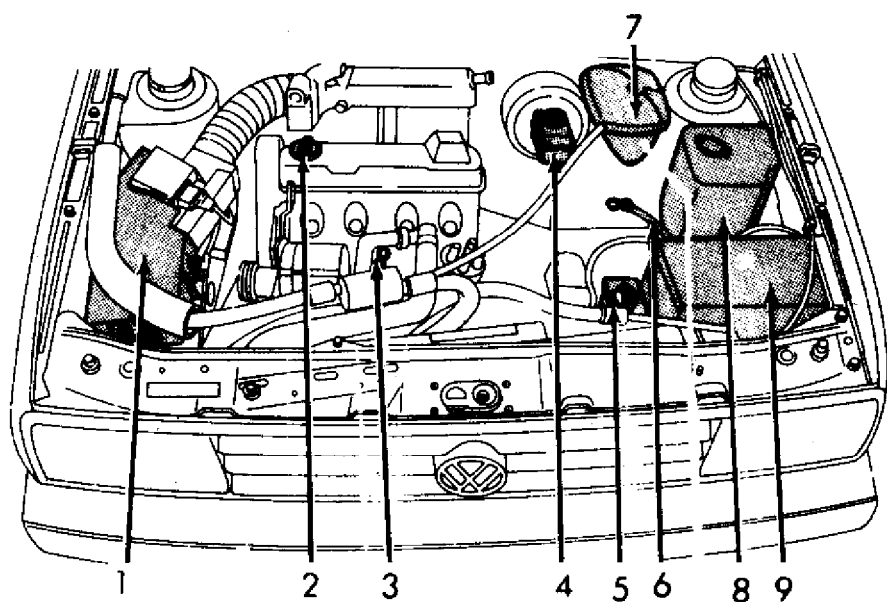
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#### GASOLINE ENGINE

- |                             |                                    |
|-----------------------------|------------------------------------|
| 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             |

93C45783

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

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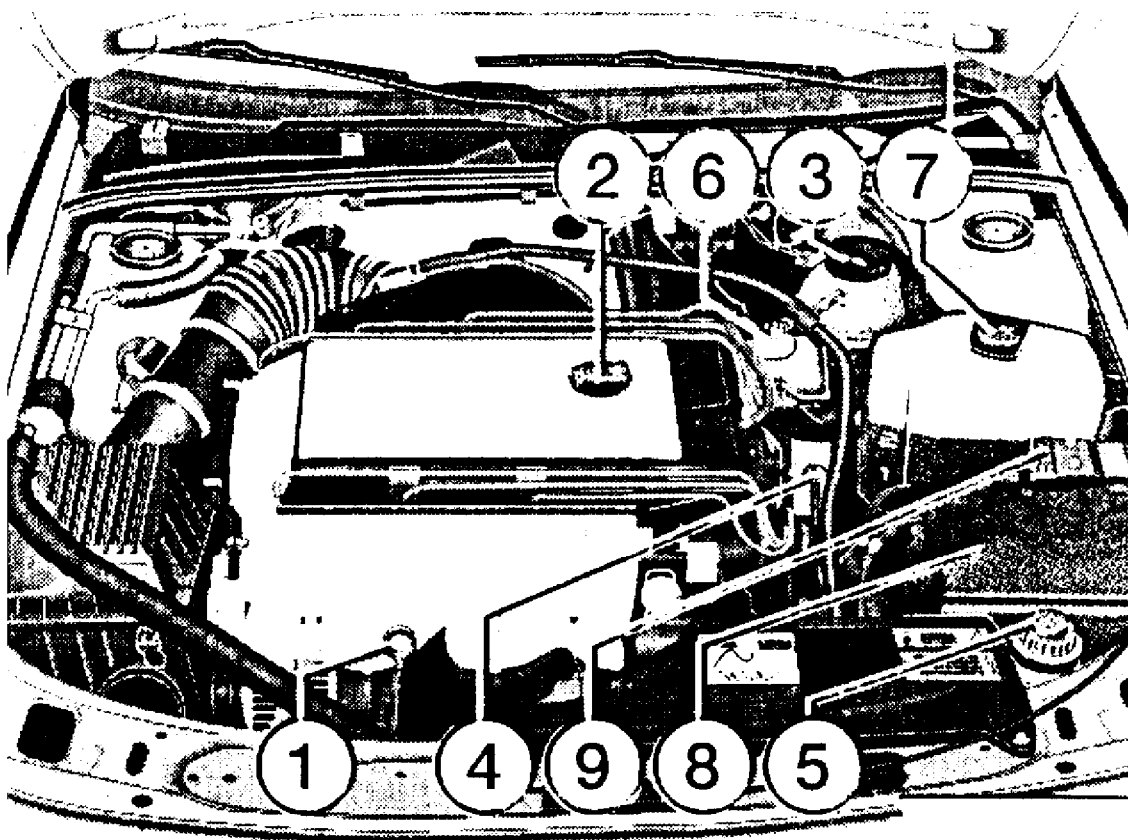
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- 1 - Engine oil dipstick
  - 2 - Engine oil filler cap
  - 3 - Coolant expansion tank
  - 4 - ATF-dipstick\*
  - 5 - Power steering reservoir
  - 6 - Brake fluid reservoir
  - 7 - Windshield washer container
  - 8 - Battery (protected by a cover)
  - 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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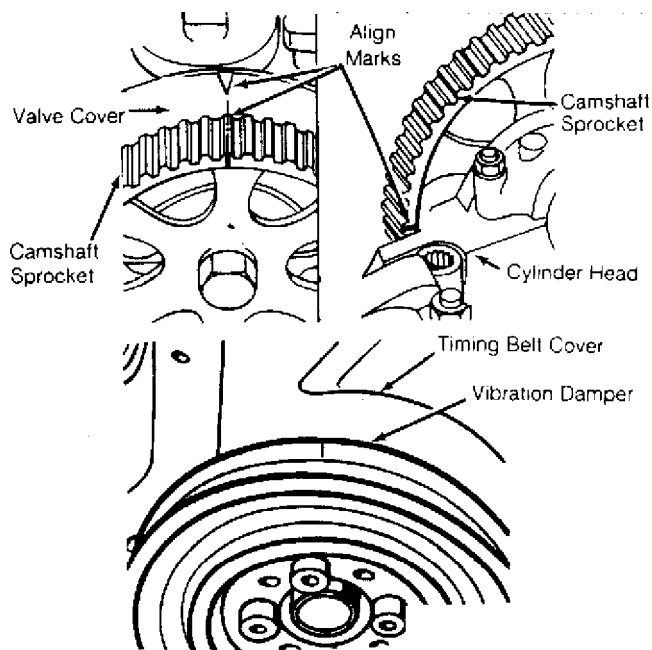


Fig. 3: Aligning 2.0L Timing Marks (16 Valve)  
Courtesy of Volkswagen United States, Inc.

**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

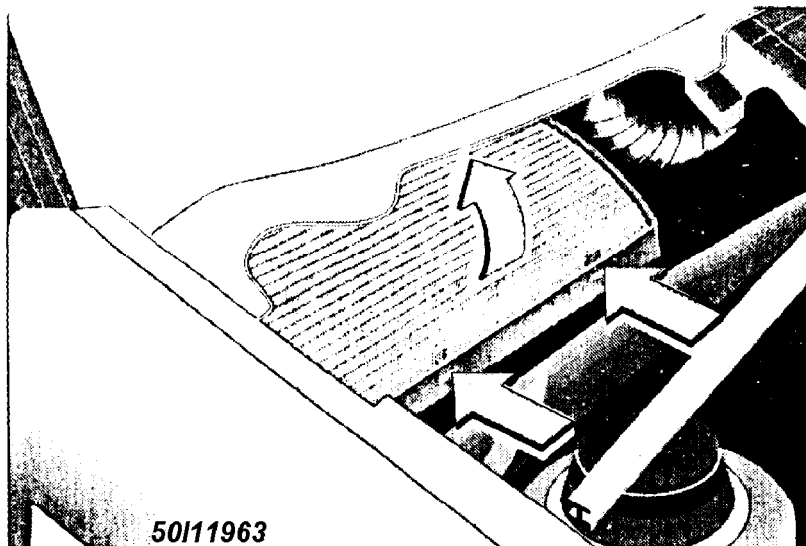
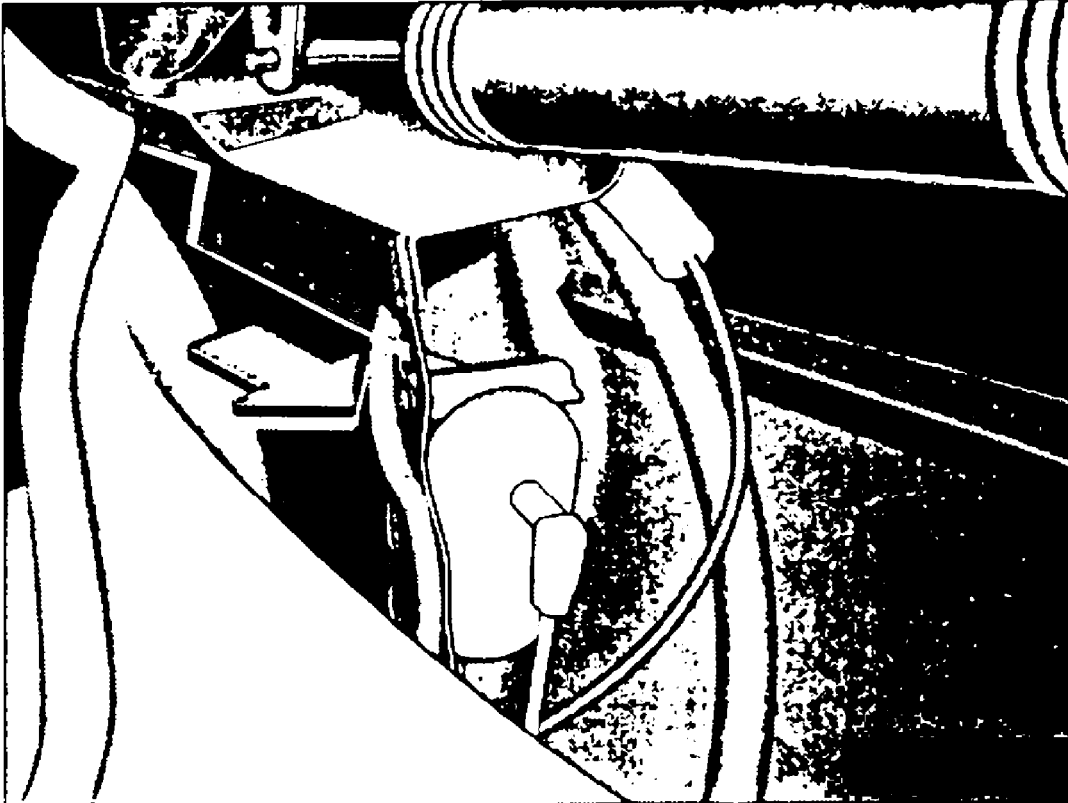


Fig. 4: Passenger Compartment Filter Location  
Courtesy of Volkswagen United States, Inc.

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:

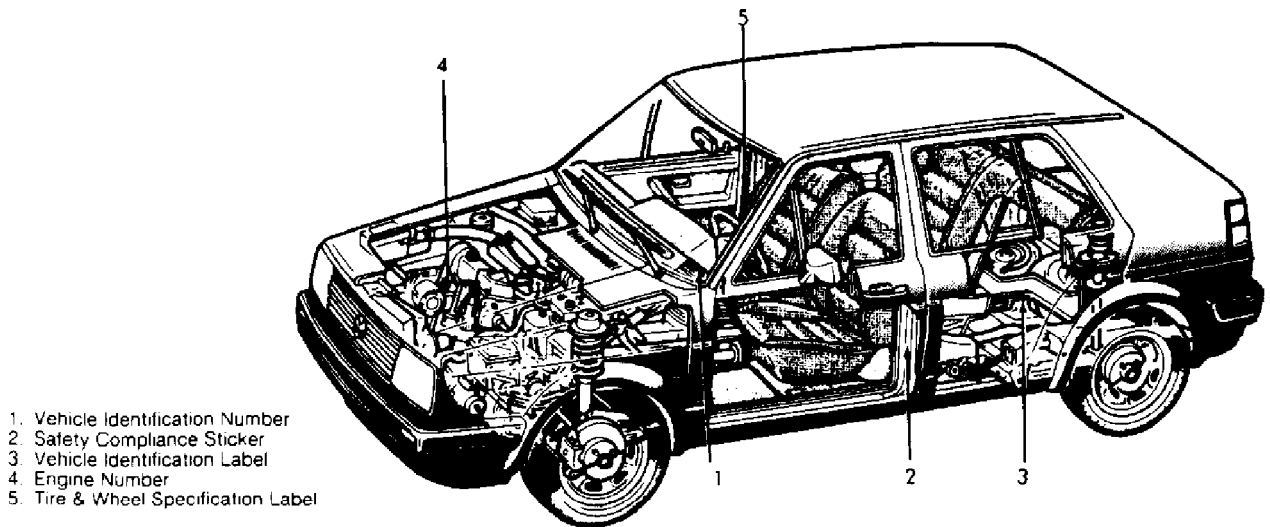
- Open the rear lid. On the sedan model, unhook the trim panel on the right side near the taillights and remove. On the wagon model, open the flap in the right side trim panel.
- Then push the locking rod in front of the white activator in the direction of the arrow – see illustration.

**50J11964**

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.

**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:

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 (10 Miles) In Freezing Temperatures
- \* Towing or Heavily Loaded
- \* Severe Dust Conditions
- \* Hot Weather, Stop-and-Go Driving
- \* Extensive Idling Conditions (Taxi or Delivery)

**SEVERE SERVICE REQUIREMENTS (PERFORM W/SERVICE SCHEDULES)**

**NOTE:** The following services are to be performed on vehicles subjected to severe service. See SEVERE & NORMAL SERVICE DEFINITIONS. This service is to be performed in addition to the normal services listed in the NORMAL MAINTENANCE SERVICE SCHEDULES.

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Condition	Action	Item	Perform Every (1)
Short Trips (10 Miles) In Freezing Temperatures	Replace	Engine Oil & Filter	3, 750 Miles or 3 Months
	Replace	A/T Fluid	30, 000 Miles
	Service	A/T: Clean Pan & Strainer	30, 000 Miles
Towing Or Heavily Loaded	Replace	Engine Oil & Filter	3, 750 Miles or 3 Months
	Replace	A/T Fluid	30, 000 Miles
	Service	A/T: Clean Pan & Strainer	30, 000 Miles
Severe Dust Conditions	Replace	Engine Oil & Filter	3, 750 Miles or 3 Months
	Replace	A/T Fluid	30, 000 Miles
	Service	A/T: Clean Pan & Strainer	30, 000 Miles
Hot Weather, Stop-And-Go Driving	Replace	Engine Oil & Filter	3, 750 Miles or 3 Months
	Replace	A/T Fluid	30, 000 Miles
	Service	A/T: Clean Pan & Strainer	30, 000 Miles
Extensive Idling Conditions (Taxi or Delivery)	Replace	Engine Oil & Filter	3, 750 Miles or 3 Months
	Replace	A/T Fluid	30, 000 Miles
	Service	A/T: Clean Pan & Strainer	30, 000 Miles
(1) - Perform these services at the mileage or number of months (since the last time), whichever comes first.			

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Service Or Inspect	
Check Fluid Levels	
Inspect Coolant Hoses and Clamps	
Inspect Brake System	
Inspect Exhaust System	
Inspect C/V Joint boots	
Inspect Steering Linkage/Front Suspension	
Lubricate Chassis	
Replace	
Engine Oil	
Oil Filter	
Lubrication Specifications	
Application	Specification
Engine Oil	
Ambient Temperatures	
Greater Than 140 F (-100C) ...	SAE 20W-40 Or 20W-50 API SG/CD
140-500F (-100 To +100C) .....	SAE 10W-30 Or 10W-40 API SG/CD
Less Than 500F (100C) .....	SAE 5W-30 Or 5W-40 API SG/CD
Fluid Capacities	
Application	(1) Quantity
Engine Oil (2)	
1990-94	

Service		Time
3	Service Or Inspect	3
3	Verify Last Major Service Was Performed	3
3	Check On-Board Diagnostic Fault Memory (Purge if Required)	3
3	Check Fluid Levels	3
3	Check Cooling System Hoses and Clamps	3
3	Check Coolant Strength	3
3	Inspect For Fluid Leaks	3
3	Inspect/Adjust Accessory Drive Belts (Replace if Required)	3
3	Inspect/Adjust Camshaft Timing Belt (2.0L)	3
3	A/C Cooling & Heating System	3
3	Crankcase Ventilation System	3
3	Intake Air System	3
3	Clean Snow Screen (V6 Models if Applicable)	3
3	Idle Speed	3
3	Inspect Brake System	3
3	Check Exhaust System & Heat Shielding	3
3	Clean Battery and Battery Terminals	3
3	Inspect Fuel/Tank/Cap/Lines	3
3	Check Operation of Horn, Wipers/Washers & All Exterior Lights	3

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Application		Specification
3	Inspect Condition of Wiper Blades	3
3	Check Headlight Alignment	3
3	Lubricate Weatherstripping with Silicone	3
3	Door/Hood/Trunk Stops, Hinges & Locks	3
3	Check Body Drain Holes	3
3	Check Automatic Seat Belt Operation (1990- 94)	3
3	Check Seat Belt Webbing and Release Mechanisms	3
3	Windshield Washer System	3
3	Parking Brake Adjustment	3
3	Check Clutch Adjustment	3
3	Suspension & Wheel Bearings	3
3	Check Shift Interlock Operation	3
3	Inspect Steering Linkage/Front Suspension	3
3	Lubricate Chassis	3
3	Inspect Brake Pads, Rotors and Calipers	3
3	Inspect Brake System Hoses & Lines	3
3	Inspect Shocks/Struts for Leakage	3
3	Inspect Tire Wear and Condition	3
3	Rotate Tires and Adjust Air Pressure (Including Spare)	3
3	Road Test	3
3	Replace	3
3	Engine Oil	3
3	Oil Filter	3
3	Lubrication Specifications	3
3	Automatic Transaxle	Dexron- IIE ATF

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Brake Fluid	SAE J1703 Or DOT 4 Brake Fluid
Coolant	50/50 Mix Ethylene Glycol /Water
Engine Oil	
Ambient Temperatures	
Greater Than 140 F (- 100C)	SAE 20W-40 Or 20W-50 API SG/CD
140- 500F (- 100 To +100C)	SAE 10W-30 Or 10W-40 API SG/CD
Less Than 500F (100C)	SAE 5W-30 Or 5W-40 API SG/CD
Wheel Bearings	NLGI Grade 2 Category GC-LB
Steering Linkage (1)(2)	NLGI Grade 2 Category GC-LB
Ball Joints (1)(3)	NLGI Grade 2 Category GC-LB
Manual Transaxle	SAE 80W API GL-4 Or SAE 75W-90
	Synthetic Transmission Oil G 50
Power Steering Fluid	VW Hydraulic Oil G-002-000
Weatherstrip	Dielectric Silicone Grease
Final Drive (Differential)	Synthetic Transmission Oil G 50
	SAE 75W-90

(1) - Use low pressure grease gun to prevent seal damage.

(2) - Fill until lubricant squeezes out from the base of seals.

(3) - Fill ball joint until seal starts to swell.

### Fluid Capacities

#### Application (1) Quantity

Automatic Transmission	3.2 Qts. (3.0L)
Cooling System	
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 (2)	
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)

(1) - Capacities are recommended or calculated levels. Always use dipstick (if available) to measure level.

(2) - Includes filter change.

### Service Labor Times

#### Application (1) (2) (3) Hours

Automatic Transmission	1.5
Manual Transmission	1.7

Service Or Inspect	
Verify Last Major Service Was Performed	
Check Fluid Levels	
Inspect Coolant Hoses and Clamps	
Inspect Brake System	
Inspect Exhaust System	
Inspect C/V Joint boots	
Inspect Steering Linkage/Front Suspension	
Lubricate Chassis	
Replace	
Engine Oil	
Oil Filter	
Lubrication Specifications	
Application	Specification
Engine Oil	
Ambient Temperatures	
Greater Than 140° F (-10°C) ...	SAE 20W-40 Or 20W-50 API SG/CD
140°-50°F (-10° To +10°C) .....	SAE 10W-30 Or 10W-40 API SG/CD
Less Than 50°F (10°C) .....	SAE 5W-30 Or 5W-40 API SG/CD
Fluid Capacities	
Application	(1) Quantity
Engine Oil (2)	
1990-94	
2.0L .....	4.3 Qts. (4.0L)
2.8L V6 .....	6.3 Qts. (6.0L)
1995-96	

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3	2.0L	.....	4.3 Qts. (4.0L)	3
3	2.8L V6	.....	7.4 Qts. (7.0L)	3
3				3
3	(1) - Capacities are recommended or calculated levels. Always use			3
3	diptstick (if available) to measure level.			3
3	(2) - Includes filter change.			3
~~~~~				

## 30,000 MILE (48,000 KM) SERVICE

## 30, 000 MILE (48, 000 KM) SERVICE

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3	3	Check Headlight Alignment	3
3	3	Lubricate Weatherstripping with Silicone	3
3	3	Door/Hood/Trunk Stops, Hinges & Locks	3
3	3	Check Body Drain Holes	3
3	3	Check Automatic Seat Belt Operation (1990-94)	3
3	3	Check Seat Belt Webbing and Release Mechanisms	3
3	3	Windshield Washer System	3
3	3	Parking Brake Adjustment	3
3	3	Check Clutch Adjustment	3
3	3	Suspension & Wheel Bearings	3
3	3	Check Shift Interlock Operation	3
3	3	Inspect Steering Linkage/Front Suspension	3
3	3	Lubricate Chassis	3
3	3	Inspect Brake Pads, Rotors and Calipers	3
3	3	Inspect Brake System Hoses & Lines	3
3	3	Inspect Shocks/Struts for Leakage	3
3	3	Inspect Tire Wear and Condition	3
3	3	Rotate Tires and Adjust Air Pressure (Including Spare)	3
3	3	Road Test	3
3		Replace	3
3	3	Engine Oil	3
3	3	Oil Filter	3
3	3	Spark Plugs	3
3	3	Air Filter Element	3
3	3	Replace Passenger HVAC Air Filter (1995-96)	3
3	3	Drain, Refill and Bleed Brake System Fluid	3

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3	Service Labor Times	3
3	Application	(1) (2) (3) Hours 3
3	Automatic Transmission	3.2 3
3	Manual Transmission	2.6 3
3	(1) - Add .2 hr. if equipped with A/C.	3
3	(2) - Add .1 hr. if equipped with cruise control.	3
3	(3) - Add 2.2 hrs. to replace camshaft timing belt.	3

### 37,500 MILE (60,000 KM) SERVICE

37, 500 MILE (60, 000 KM) SERVICE		
UAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Application	(1) Quantity
Engine Oil (2)	
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)
(1) - Capacities are recommended or calculated levels. Always use dipstick (if available) to measure level.	
(2) - Includes filter change.	

## 45,000 MILE (72,000 KM) SERVICE

## 45,000 MILE (72,000 KM) SERVICE

3	Service Or Inspect	3
3	Verify Last Major Service Was Performed	3
3	Check On-Board Diagnostic Fault Memory (Purge if Required)	3
3	Check Fluid Levels	3
3	Check Cooling System Hoses and Clamps	3
3	Check Coolant Strength	3
3	Inspect For Fluid Leaks	3
3	Inspect/Adjust Accessory Drive Belts (Replace if Required)	3
3	Inspect/Adjust Camshaft Timing Belt (2.0L)	3
3	A/C Cooling & Heating System	3
3	Crankcase Ventilation System	3
3	Intake Air System	3
3	Clean Snow Screen (V6 Models if Applicable)	3
3	Idle Speed	3
3	Inspect Brake System	3
3	Check Exhaust System & Heat Shielding	3
3	Clean Battery and Battery Terminals	3

3		
3	Inspect Fuel /Tank/Cap/Lines	3
3		
3	Check Operation of Horn, Wipers/Washers & All Exterior Lights	3
3		
3	Inspect Condition of Wiper Blades	3
3		
3	Check Headlight Alignment	3
3		
3	Lubricate Weatherstripping with Silicone	3
3		
3	Door/Hood/Trunk Stops, Hinges & Locks	3
3		
3	Check Body Drain Holes	3
3		
3	Check Automatic Seat Belt Operation (1990- 94)	3
3		
3	Check Seat Belt Webbing and Release Mechanisms	3
3		
3	Windshield Washer System	3
3		
3	Parking Brake Adjustment	3
3		
3	Check Clutch Adjustment	3
3		
3	Suspension & Wheel Bearings	3
3		
3	Check Shift Interlock Operation	3
3		
3	Inspect Steering Linkage/Front Suspension	3
3		
3	Lubricate Chassis	3
3		
3	Inspect Brake Pads, Rotors and Calipers	3
3		
3	Inspect Brake System Hoses & Lines	3
3		
3	Inspect Shocks/Struts for Leakage	3
3		
3	Inspect Tire Wear and Condition	3
3		
3	Rotate Tires and Adjust Air Pressure (Including Spare)	3
3		
3	Road Test	3
3		
3	Replace	3
3		
3	Engine Oil	3
3		
3	Oil Filter	3
3		
3	Lubrication Specifications	3

## SCHEDULED SERVICES

### Article Text (p. 23)

1991 Volkswagen Passat

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3 Application Specification 3

3 3

3 Automatic Transaxle ..... Dexron- IIE ATF 3

3 Brake Fluid ..... SAE J1703 Or DOT 4 Brake Fluid 3

3 Coolant ..... 50/50 Mix Ethylene Glycol /Water 3

3 Engine Oil 3

3 Ambient Temperatures 3

3 Greater Than 140 F (- 100C) ... SAE 20W- 40 Or 20W- 50 API SG/CD 3

3 140- 500F (- 100 To +100C) ..... SAE 10W- 30 Or 10W- 40 API SG/CD 3

3 Less Than 500F (100C) ..... SAE 5W- 30 Or 5W- 40 API SG/CD 3

3 Wheel Bearings ..... NLGI Grade 2 Category GC- LB 3

3 Steering Linkage (1)(2) ..... NLGI Grade 2 Category GC- LB 3

3 Ball Joints (1)(3) ..... NLGI Grade 2 Category GC- LB 3

3 Manual Transaxle ..... SAE 80W API GL- 4 Or SAE 75W- 90 3

3 Synthetic Transmission Oil G 50 3

3 Power Steering Fluid ..... VW Hydraulic Oil G- 002- 000 3

3 Weatherstrip ..... Dielectric Silicone Grease 3

3 Final Drive (Differential) ..... Synthetic Transmission Oil G 50 3

3 SAE 75W- 90 3

3 3

3 (1) - Use low pressure grease gun to prevent seal damage. 3

3 (2) - Fill until lubricant squeezes out from the base of seals. 3

3 (3) - Fill ball joint until seal starts to swell. 3

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3 Fluid Capacities 3

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3 Application (1) Quantity 3

3 3

3 Automatic Transmission ..... 3.2 Qts. (3.0L) 3

3 Cooling System 3

3 1990- 94 3

3 2.0L ..... 5.9 Qts. (5.6L) 3

3 2.8L V6 ..... 9.1 Qts. (8.6L) 3

3 1995- 96 3

3 2.0L ..... 5.9 Qts. (5.6L) 3

3 2.8L V6 ..... 9.6 Qts. (9.1L) 3

3 Engine Oil (2) 3

3 1990- 94 3

3 2.0L ..... 4.3 Qts. (4.0L) 3

3 2.8L V6 ..... 6.3 Qts. (6.0L) 3

3 1995- 96 3

3 2.0L ..... 4.3 Qts. (4.0L) 3

3 2.8L V6 ..... 7.4 Qts. (7.0L) 3

3 3

3 (1) - Capacities are recommended or calculated levels. Always use 3

3 dipstick (if available) to measure level. 3

3 (2) - Includes filter change. 3

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3 Service Labor Times 3

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3 Application (1) (2) (3) Hours 3

Application		Speci fi cati on
3	Engine Oil	3
3	Ambient Temperatures	3
3	Greater Than 140 F (-100C) ...	SAE 20W-40 Or 20W-50 API SG/CD
3	140-500F (-100 To +100C) ....	SAE 10W-30 Or 10W-40 API SG/CD
3	Less Than 500F (100C) .....	SAE 5W-30 Or 5W-40 API SG/CD
3	Fluid Capacities	3
3	Application	(1) Quantity
3	Engine Oil (2)	3

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3	1990-94	3
3	2.0L .....	3
3	2.8L V6 .....	3
3	1995-96	3
3	2.0L .....	3
3	2.8L V6 .....	3
3		3
3	(1) - Capacities are recommended or calculated levels. Always use	3
3	dipstick (if available) to measure level.	3
3	(2) - Includes filter change.	3
~~~~~		

## 60,000 MILE (96,000 KM) SERVICE

## 60, 000 MILE (96, 000 KM) SERVICE

U	Service Or Inspect	3
A	Verify Last Major Service Was Performed	3
A	Check On-Board Diagnostic Fault Memory (Purge if Required)	3
A	Check Fluid Levels	3
A	Check Cooling System Hoses and Clamps	3
A	Check Coolant Strength	3
A	Inspect For Fluid Leaks	3
A	Inspect/Adjust Accessory Drive Belts (Replace if Required)	3
A	A/C Cooling & Heating System	3
A	Crankcase Ventilation System	3
A	Intake Air System	3
A	Clean Snow Screen (V6 Models if Applicable)	3
A	Idle Speed	3
A	Inspect Brake System	3
A	Check Exhaust System & Heat Shielding	3
A	Clean Battery and Battery Terminals	3
A	Inspect Fuel/Tank/Cap/Lines	3
A	Check Operation of Horn, Wipers/Washers & All Exterior Lights	3

# SCHEDULED SERVICES

## Article Text (p. 26)

1991 Volkswagen Passat

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Wednesday, August 25, 1999 08:59PM

3	3	Inspect Condition of Wiper Blades	3
AAAAA			/
3	3	Check Headlight Alignment	3
AAAAA			/
3	3	Lubricate Weatherstripping with Silicone	3
AAAAA			/
3	3	Door/Hood/Trunk Stops, Hinges & Locks	3
AAAAA			/
3	3	Check Body Drain Holes	3
AAAAA			/
3	3	Check Automatic Seat Belt Operation (1990-94)	3
AAAAA			/
3	3	Check Seat Belt Webbing and Release Mechanisms	3
AAAAA			/
3	3	Windshield Washer System	3
AAAAA			/
3	3	Parking Brake Adjustment	3
AAAAA			/
3	3	Check Clutch Adjustment	3
AAAAA			/
3	3	Suspension & Wheel Bearings	3
AAAAA			/
3	3	Check Shift Interlock Operation	3
AAAAA			/
3	3	Inspect Steering Linkage/Front Suspension	3
AAAAA			/
3	3	Lubricate Chassis	3
AAAAA			/
3	3	Inspect Brake Pads, Rotors and Calipers	3
AAAAA			/
3	3	Inspect Brake System Hoses & Lines	3
AAAAA			/
3	3	Inspect Shocks/Struts for Leakage	3
AAAAA			/
3	3	Inspect Tire Wear and Condition	3
AAAAA			/
3	3	Rotate Tires and Adjust Air Pressure (Including Spare)	3
AAAAA			/
3	3	Road Test	3
AAAAA			/
3		Replace	3
AAAAA			/
3	3	Engine Oil	3
AAAAA			/
3	3	Oil Filter	3
AAAAA			/
3	3	Spark Plugs	3
AAAAA			/
3	3	Air Filter Element	3
AAAAA			/
3	3	Replace Passenger HVAC Air Filter (1995-96)	3
AAAAA			/

## SCHEDULED SERVICES

### Article Text (p. 27)

1991 Volkswagen Passat

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Wednesday, August 25, 1999 08:59PM

3	3	Replace Automatic Transmission Fluid and Clean ATF Strainer	3
3	3	Camshaft Timing Belt (2.0L Only)	3
3	3	Oxygen Sensor	3
3	3	Drain, Refill and Bleed Brake System Fluid	3
3	3	Drain, Flush and Refill Engine Coolant (1990-92)	3
3		Lubrication Specifications	3
3		Application	Specification
3		Automatic Transaxle	Dexron-II E ATF
3		Brake Fluid	SAE J1703 Or DOT 4 Brake Fluid
3		Coolant	50/50 Mix Ethylene Glycol/Water
3		Engine Oil	
3		Ambient Temperatures	
3		Greater Than 140 F (-10°C)	SAE 20W-40 Or 20W-50 API SG/CD
3		140-50°F (-10° To +10°C)	SAE 10W-30 Or 10W-40 API SG/CD
3		Less Than 50°F (10°C)	SAE 5W-30 Or 5W-40 API SG/CD
3		Wheel Bearings	NLGI Grade 2 Category GC-LB
3		Steering Linkage (1)(2)	NLGI Grade 2 Category GC-LB
3		Ball Joints (1)(3)	NLGI Grade 2 Category GC-LB
3		Manual Transaxle	SAE 80W API GL-4 Or SAE 75W-90
3			Synthetic Transmission Oil G 50
3		Power Steering Fluid	VW Hydraulic Oil G-002-000
3		Weatherstrip	Dielectric Silicone Grease
3		Final Drive (Differential)	Synthetic Transmission Oil G 50
3			SAE 75W-90
3		(1) - Use low pressure grease gun to prevent seal damage.	
3		(2) - Fill until lubricant squeezes out from the base of seals.	
3		(3) - Fill ball joint until seal starts to swell.	
3		Fluid Capacities	
3		Application	(1) Quantity
3		Automatic Transmission	3.2 Qts. (3.0L)
3		Cooling System	
3		1990-94	
3		2.0L	5.9 Qts. (5.6L)
3		2.8L V6	9.1 Qts. (8.6L)
3		1995-96	
3		2.0L	5.9 Qts. (5.6L)
3		2.8L V6	9.6 Qts. (9.1L)
3		Engine Oil (2)	
3		1990-94	
3		2.0L	4.3 Qts. (4.0L)
3		2.8L V6	6.3 Qts. (6.0L)

Application		Speci fi cation
3	Service Or Inspect	3
3	Verify Last Major Service Was Performed	3
3	Check Fluid Levels	3
3	Inspect Coolant Hoses and Clamps	3
3	Inspect Brake System	3
3	Inspect Exhaust System	3
3	Inspect C/V Joint boots	3
3	Inspect Steering Linkage/Front Suspension	3
3	Lubri cate Chassi s	3
3	Replace	3
3	Engine Oil	3
3	Oil Filter	3
3	Lubri cation Speci fi cations	3

3	Service Oil Inspect	3
3	Verify Last Major Service Was Performed	3
3	Check On-Board Diagnostic Fault Memory (Purge if Required)	3
3	Check Fluid Levels	3
3	Check Cooling System Hoses and Clamps	3
3	Check Coolant Strength	3
3	Inspect For Fluid Leaks	3
3	Inspect/Adjust Accessory Drive Belts (Replace if Required)	3
3	Inspect/Adjust Camshaft Timing Belt (2.0L)	3
3	A/C Cooling & Heating System	3
3	Crankcase Ventilation System	3
3	Intake Air System	3
3	Clean Snow Screen (V6 Models if Applicable)	3

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3	3	Idle Speed	3
3	3	Inspect Brake System	3
3	3	Check Exhaust System & Heat Shielding	3
3	3	Clean Battery and Battery Terminals	3
3	3	Inspect Fuel/Tank/Cap/Lines	3
3	3	Check Operation of Horn, Wipers/Washers & All Exterior Lights	3
3	3	Inspect Condition of Wiper Blades	3
3	3	Check Headlight Alignment	3
3	3	Lubricate Weatherstripping with Silicone	3
3	3	Door/Hood/Trunk Stops, Hinges & Locks	3
3	3	Check Body Drain Holes	3
3	3	Check Automatic Seat Belt Operation (1990- 94)	3
3	3	Check Seat Belt Webbing and Release Mechanisms	3
3	3	Windshield Washer System	3
3	3	Parking Brake Adjustment	3
3	3	Check Clutch Adjustment	3
3	3	Suspension & Wheel Bearings	3
3	3	Check Shift Interlock Operation	3
3	3	Inspect Steering Linkage/Front Suspension	3
3	3	Lubricate Chassis	3
3	3	Inspect Brake Pads, Rotors and Calipers	3
3	3	Inspect Brake System Hoses & Lines	3
3	3	Inspect Shocks/Struts for Leakage	3
3	3	Inspect Tire Wear and Condition	3
3	3	Rotate Tires and Adjust Air Pressure (Including Spare)	3
3	3	Road Test	3

Application		Specification
Automatic Transaxle		Dexron-II E ATF
Brake Fluid	SAE J1703 Or DOT 4 Brake Fluid	
Coolant	50/50 Mix Ethylene Glycol /Water	
Engine Oil		
Ambient Temperatures		
Greater Than 140° F (-10°C)	SAE 20W-40 Or 20W-50	API SG/CD
140-50°F (-10° To +10°C)	SAE 10W-30 Or 10W-40	API SG/CD
Less Than 50°F (10°C)	SAE 5W-30 Or 5W-40	API SG/CD
Wheel Bearings	NLGI Grade 2 Category GC-LB	
Steering Linkage (1)(2)	NLGI Grade 2 Category GC-LB	
Ball Joints (1)(3)	NLGI Grade 2 Category GC-LB	
Manual Transaxle	SAE 80W API GL-4 Or SAE 75W-90 Synthetic Transmission Oil G 50	
Power Steering Fluid	VW Hydraulic Oil G-002-000	
Weatherstrip	Dielectric Silicone Grease	
Final Drive (Differential)	Synthetic Transmission Oil G 50 SAE 75W-90	
(1) - Use low pressure grease gun to prevent seal damage.		
(2) - Fill until lubricant squeezes out from the base of seals.		
(3) - Fill ball joint until seal starts to swell.		
Application		(1) Quantity
Automatic Transmission		3.2 Qts. (3.0L)
Cooling System		
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 (2)		
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)	

Application		Specification
3	Engine Oil	3
3	Ambient Temperatures	3
3	Greater Than 140 F (-100C) ... SAE 20W-40 Or 20W-50 API SG/CD	3

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# SCHEDULED SERVICES

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3	3	Inspect Brake System	3
AAAAA			/
3	3	Check Exhaust System & Heat Shielding	3
AAAAA			/
3	3	Clean Battery and Battery Terminals	3
AAAAA			/
3	3	Inspect Fuel /Tank/Cap/Lines	3
AAAAA			/
3	3	Check Operation of Horn, Wipers/Washers & All Exterior Lights	3
AAAAA			/
3	3	Inspect Condition of Wiper Blades	3
AAAAA			/
3	3	Check Headlight Alignment	3
AAAAA			/
3	3	Lubricate Weatherstripping with Silicone	3
AAAAA			/
3	3	Door/Hood/Trunk Stops, Hinges & Locks	3
AAAAA			/
3	3	Check Body Drain Holes	3
AAAAA			/
3	3	Check Automatic Seat Belt Operation (1990-94)	3
AAAAA			/
3	3	Check Seat Belt Webbing and Release Mechanisms	3
AAAAA			/
3	3	Windshield Washer System	3
AAAAA			/
3	3	Parking Brake Adjustment	3
AAAAA			/
3	3	Check Clutch Adjustment	3
AAAAA			/
3	3	Suspension & Wheel Bearings	3
AAAAA			/
3	3	Check Shift Interlock Operation	3
AAAAA			/
3	3	Inspect Steering Linkage/Front Suspension	3
AAAAA			/
3	3	Lubricate Chassis	3
AAAAA			/
3	3	Inspect Brake Pads, Rotors and Calipers	3
AAAAA			/
3	3	Inspect Brake System Hoses & Lines	3
AAAAA			/
3	3	Inspect Shocks/Struts for Leakage	3
AAAAA			/
3	3	Inspect Tire Wear and Condition	3
AAAAA			/
3	3	Rotate Tires and Adjust Air Pressure (Including Spare)	3
AAAAA			/
3	3	Road Test	3
AAAAA			/
3		Replace	3
AAAAA			/

# SCHEDULED SERVICES

## Article Text (p. 35)

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3	3	Engine Oil	3
3	3	Oil Filter	3
3	3	Spark Plugs	3
3	3	Air Filter Element	3
3	3	Replace Passenger HVAC Air Filter (1995-96)	3
3	3	Drain, Refill and Bleed Brake System Fluid	3
3	3	Drain, Flush and Refill Engine Coolant (1990-92)	3
3		Lubrication Specifications	3
3		Application	Specification
3		Automatic Transaxle	Dexron-II E ATF
3		Brake Fluid	SAE J1703 Or DOT 4 Brake Fluid
3		Coolant	50/50 Mix Ethylene Glycol /Water
3		Engine Oil	
3		Ambient Temperatures	
3		Greater Than 140 F (-100C)	SAE 20W-40 Or 20W-50 API SG/CD
3		140-500F (-100 To +100C)	SAE 10W-30 Or 10W-40 API SG/CD
3		Less Than 500F (100C)	SAE 5W-30 Or 5W-40 API SG/CD
3		Wheel Bearings	NLGI Grade 2 Category GC-LB
3		Steering Linkage (1)(2)	NLGI Grade 2 Category GC-LB
3		Ball Joints (1)(3)	NLGI Grade 2 Category GC-LB
3		Manual Transaxle	SAE 80W API GL-4 Or SAE 75W-90
3			Synthetic Transmission Oil G 50
3		Power Steering Fluid	VW Hydraulic Oil G-002-000
3		Weatherstrip	Dielectric Silicone Grease
3		Final Drive (Differential)	Synthetic Transmission Oil G 50
3			SAE 75W-90
3		(1) - Use low pressure grease gun to prevent seal damage.	
3		(2) - Fill until lubricant squeezes out from the base of seals.	
3		(3) - Fill ball joint until seal starts to swell.	
3		Fluid Capacities	
3		Application	(1) Quantity
3		Automatic Transmission	3.2 Qts. (3.0L)
3		Cooling System	
3		1990-94	
3		2.0L	5.9 Qts. (5.6L)
3		2.8L V6	9.1 Qts. (8.6L)
3		1995-96	
3		2.0L	5.9 Qts. (5.6L)
3		2.8L V6	9.6 Qts. (9.1L)

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## SCHEDULED SERVICES

### Article Text (p. 37)

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Lubrication Specifications	
Application	
Engine Oil	
Ambient Temperatures	
Greater Than 140 F (-10C)	SAE 20W-40 or 20W-50 API SG/CD
140-50F (-10 To +10C)	SAE 10W-30 or 10W-40 API SG/CD
Less Than 50F (10C)	SAE 5W-30 or 5W-40 API SG/CD
Fluid Capacities	
Application	
Engine Oil (2)	
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)
(1) - Capacities are recommended or calculated levels. Always use dipstick (if available) to measure level.	
(2) - Includes filter change.	

## 105,000 MILE (168,000 KM) SERVICE

105,000 MILE (168,000 KM) SERVICE	
Service or Inspect	
Verify Last Major Service Was Performed	
Check On-Board Diagnostic Fault Memory (Purge if Required)	
Check Fluid Levels	
Check Cooling System Hoses and Clamps	
Check Coolant Strength	
Inspect For Fluid Leaks	
Inspect/Adjust Accessory Drive Belts (Replace if Required)	
Inspect/Adjust Camshaft Timing Belt (2.0L)	
A/C Cooling & Heating System	
Crankcase Ventilation System	

## SCHEDULED SERVICES

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AAAAAA	Intake Air System	AAAAAA
3 3	Clean Snow Screen (V6 Models if Applicable)	3 3
AAAAAA	Idle Speed	AAAAAA
3 3	Inspect Brake System	3 3
AAAAAA	Check Exhaust System & Heat Shielding	AAAAAA
3 3	Clean Battery and Battery Terminals	3 3
AAAAAA	Inspect Fuel /Tank/Cap/Lines	AAAAAA
3 3	Check Operation of Horn, Wipers/Washers & All Exterior Lights	3 3
AAAAAA	Inspect Condition of Wiper Blades	AAAAAA
3 3	Check Headlight Alignment	3 3
AAAAAA	Lubricate Weatherstripping with Silicone	AAAAAA
3 3	Door/Hood/Trunk Stops, Hinges & Locks	3 3
AAAAAA	Check Body Drain Holes	AAAAAA
3 3	Check Automatic Seat Belt Operation (1990-94)	3 3
AAAAAA	Check Seat Belt Webbing and Release Mechanisms	AAAAAA
3 3	Windshield Washer System	3 3
AAAAAA	Parking Brake Adjustment	AAAAAA
3 3	Check Clutch Adjustment	3 3
AAAAAA	Suspension & Wheel Bearings	AAAAAA
3 3	Check Shift Interlock Operation	3 3
AAAAAA	Inspect Steering Linkage/Front Suspension	AAAAAA
3 3	Lubricate Chassis	3 3
AAAAAA	Inspect Brake Pads, Rotors and Calipers	AAAAAA
3 3	Inspect Brake System Hoses & Lines	3 3
AAAAAA	Inspect Shocks/Struts for Leakage	AAAAAA
3 3	Inspect Tire Wear and Condition	3 3

3 2.01 4.3.01 (4.01) 3

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1991 Volkswagen Passat  
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112,500 MILE (180,000 KM) SERVICE	
3	Service Or Inspect
3	Verify Last Major Service Was Performed
3	Check Fluid Levels
3	Inspect Coolant Hoses and Clamps
3	Inspect Brake System
3	Inspect Exhaust System
3	Inspect C/V Joint boots
3	Inspect Steering Linkage/Front Suspension
3	Lubricate Chassis
3	Replace
3	Engine Oil
3	Oil Filter
3	Lubrication Specifications
3	Application
3	Specification

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Engine Oil	
Ambient Temperatures	
Greater Than 140 F (-10°C) ... SAE 20W-40 Or 20W-50 API SG/CD	
140-50°F (-10° To +10°C) ..... SAE 10W-30 Or 10W-40 API SG/CD	
Less Than 50°F (10°C) ..... SAE 5W-30 Or 5W-40 API SG/CD	
Fluid Capacities	
Application	(1) Quantity
Engine Oil (2)	
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)
(1) - Capacities are recommended or calculated levels. Always use dipstick (if available) to measure level.	
(2) - Includes filter change.	

## 120,000 MILE (192,000 KM) SERVICE

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3	3	Idle Speed	3
AAAAA			/
3	3	Inspect Brake System	3
AAAAA			/
3	3	Check Exhaust System & Heat Shielding	3
AAAAA			/
3	3	Clean Battery and Battery Terminals	3
AAAAA			/
3	3	Inspect Fuel /Tank/Cap/Lines	3
AAAAA			/
3	3	Check Operation of Horn, Wipers/Washers & All Exterior Lights	3
AAAAA			/
3	3	Inspect Condition of Wiper Blades	3
AAAAA			/
3	3	Check Headlight Alignment	3
AAAAA			/
3	3	Lubricate Weatherstripping with Silicone	3
AAAAA			/
3	3	Door/Hood/Trunk Stops, Hinges & Locks	3
AAAAA			/
3	3	Check Body Drain Holes	3
AAAAA			/
3	3	Check Automatic Seat Belt Operation (1990-94)	3
AAAAA			/
3	3	Check Seat Belt Webbing and Release Mechanisms	3
AAAAA			/
3	3	Windshield Washer System	3
AAAAA			/
3	3	Parking Brake Adjustment	3
AAAAA			/
3	3	Check Clutch Adjustment	3
AAAAA			/
3	3	Suspension & Wheel Bearings	3
AAAAA			/
3	3	Check Shift Interlock Operation	3
AAAAA			/
3	3	Inspect Steering Linkage/Front Suspension	3
AAAAA			/
3	3	Lubricate Chassis	3
AAAAA			/
3	3	Inspect Brake Pads, Rotors and Calipers	3
AAAAA			/
3	3	Inspect Brake System Hoses & Lines	3
AAAAA			/
3	3	Inspect Shocks/Struts for Leakage	3
AAAAA			/
3	3	Inspect Tire Wear and Condition	3
AAAAA			/
3	3	Rotate Tires and Adjust Air Pressure (Including Spare)	3
AAAAA			/
3	3	Road Test	3
AAAAA			/

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3	Replace	3
3	3 Engine Oil	3
3	3 Oil Filter	3
3	3 Spark Plugs	3
3	3 Air Filter Element	3
3	3 Replace Passenger HVAC Air Filter (1995-96)	3
3	3 Replace Automatic Transmission Fluid and Clean ATF Strainer	3
3	3 Camshaft Timing Belt (2.0L Only)	3
3	3 Oxygen Sensor	3
3	3 Drain, Refill and Bleed Brake System Fluid	3
3	3 Drain, Flush and Refill Engine Coolant (1990-92)	3
3	Lubrication Specifications	3
3	Application	Specification
3	Automatic Transaxle	Dexron-II E ATF
3	Brake Fluid	SAE J1703 Or DOT 4 Brake Fluid
3	Coolant	50/50 Mix Ethylene Glycol/Water
3	Engine Oil	
3	Ambient Temperatures	
3	Greater Than 140 F (-100C)	SAE 20W-40 Or 20W-50 API SG/CD
3	140-500F (-100 To +100C)	SAE 10W-30 Or 10W-40 API SG/CD
3	Less Than 500F (100C)	SAE 5W-30 Or 5W-40 API SG/CD
3	Wheel Bearings	NLGI Grade 2 Category GC-LB
3	Steering Linkage (1)(2)	NLGI Grade 2 Category GC-LB
3	Ball Joints (1)(3)	NLGI Grade 2 Category GC-LB
3	Manual Transaxle	SAE 80W API GL-4 Or SAE 75W-90
3		Synthetic Transmission Oil G 50
3	Power Steering Fluid	VW Hydraulic Oil G-002-000
3	Weatherstrip	Dielectric Silicone Grease
3	Final Drive (Differential)	Synthetic Transmission Oil G 50
3		SAE 75W-90
3	(1) - Use low pressure grease gun to prevent seal damage.	
3	(2) - Fill until lubricant squeezes out from the base of seals.	
3	(3) - Fill ball joint until seal starts to swell.	
3	Fluid Capacities	
3	Application	(1) Quantity

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Automatic Transmission	3.2 Qts. (3.0L)
Cooling System	
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 (2)	
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)

(1) - Capacities are recommended or calculated levels. Always use dipstick (if available) to measure level.

(2) - Includes filter change.

Service Labor Times

Application (1) (2) (3) Hours

Automatic Transmission 4.1

Manual Transmission 3.5

(1) - Add .2 hr. if equipped with A/C.

(2) - Add .1 hr. if equipped with cruise control.

(3) - Add 2.2 hrs. to replace camshaft timing belt.

LUBRICATION SPECIFICATIONS

LUBRICATION SPECIFICATIONS TABLE

Application Fluid Specifications

Brake Fluid SAE J1703 Or DOT 4 Brake Fluid

Coolant 50/50 Mix Ethylene Glycol-Water

Engine Oil (1)

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

Less Than 500F (100C) 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)

[illegible]

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**END OF ARTICLE**