

SCHEDULED SERVICES

Article Text

1996 Volkswagen Golf

For Volkswagen Technical Site

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Thursday, August 19, 1999 11:49PM

ARTICLE BEGINNING

1993-96 MAINTENANCE

Volkswagen Maintenance & Service Intervals

Golf III,
GTI (1995-96),
Jetta III
Cabrio (1995-96)

*** 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

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.

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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)

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

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inaccurate freeze point calculations.

ELECTRIC SHOCK HAZARD

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

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.

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.

SERVICE POINT LOCATIONS

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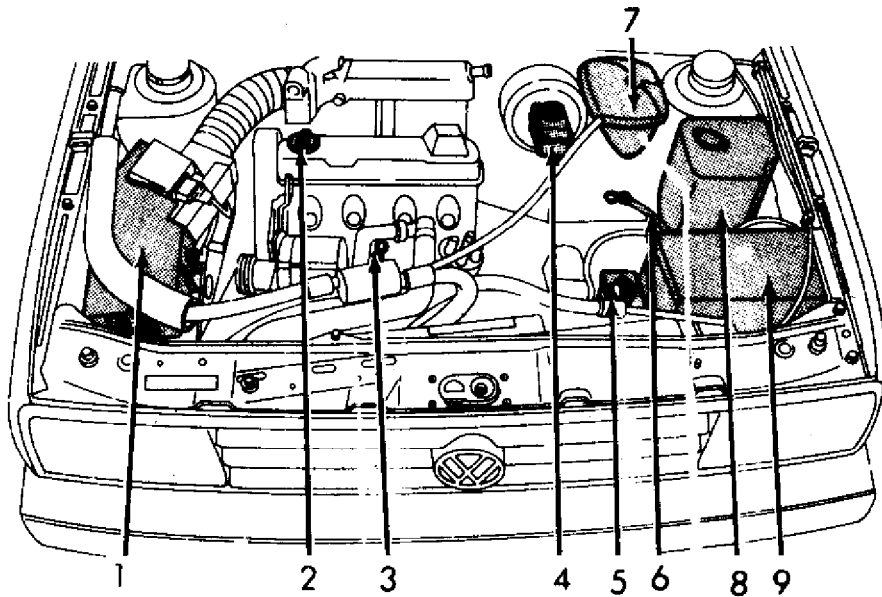
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GASOLINE ENGINE

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

93C45783

Fig. 1: Service Point Locations (Gasoline Engine)
Courtesy of Volkswagen United States, Inc.

ADDITIONAL SERVICE INFORMATION

ALIGNING CAMSHAFT TIMING MARKS

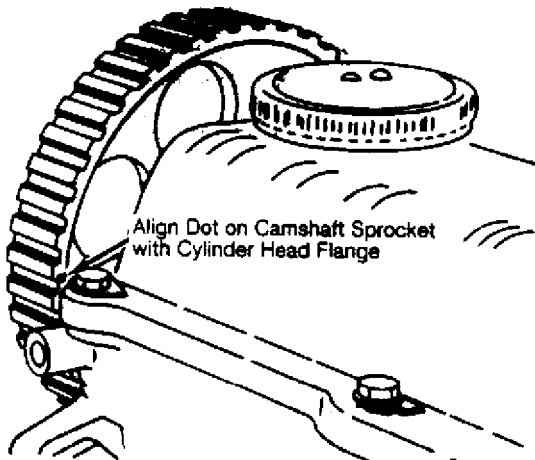


Fig. 2: Camshaft Sprocket Positioning (Gasoline)
Courtesy of Volkswagen United States, Inc.

NOTE: For more information regarding camshaft timing belt service refer to the 1.7L 4-CYL article in the

ENGINE MECHANICAL section.

VALVE CLEARANCE ADJUSTMENT

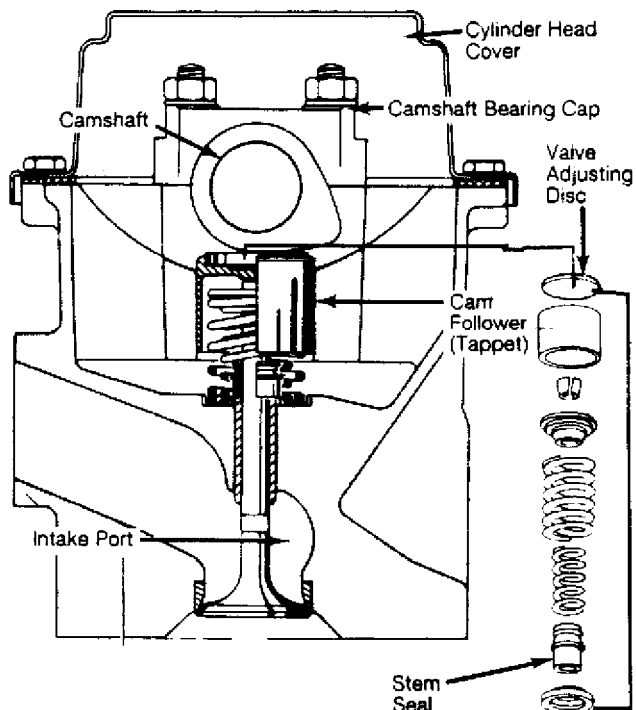


Fig. 3: Assembled View of Valve and Camshaft
Courtesy of Volkswagen United States, Inc.

NOTE: For more information regarding valve clearance adjustments refer to the 1.7L 4-CYL article in the **ENGINE MECHANICAL** section.

JACKING & HOISTING POINTS

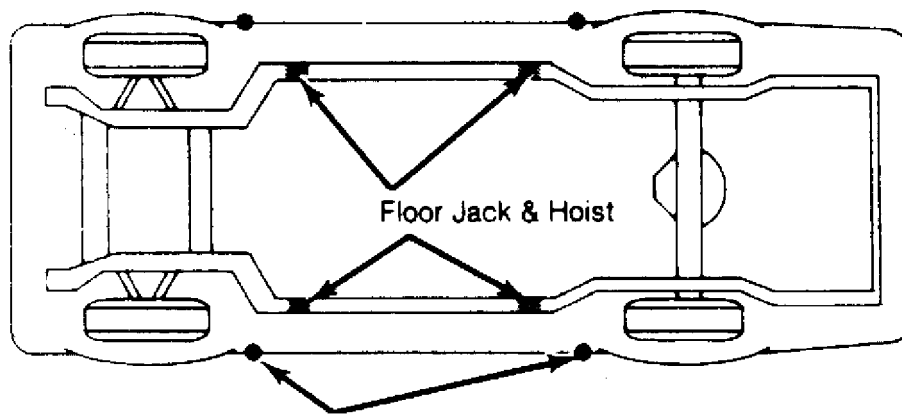


Fig. 4: Floor Jack, Floor Hoist & Vehicle Jack
Courtesy of Volkswagen United States, Inc.

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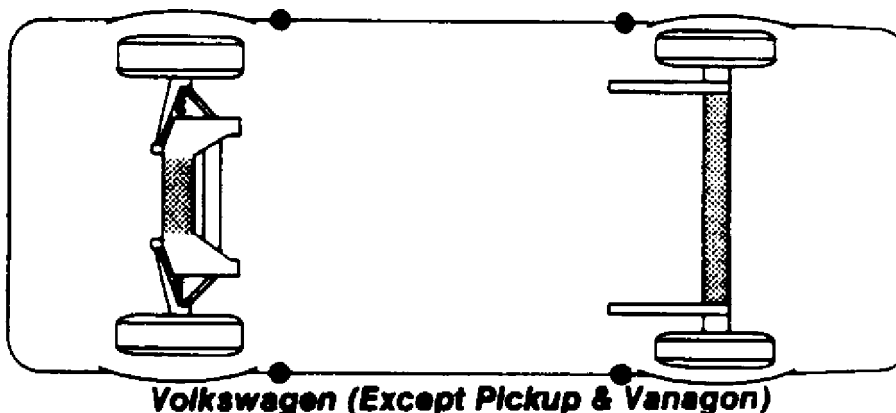


Fig. 5: Vehicle Lifting Points - Except Pickup
Courtesy of Volkswagen United States, Inc.

NOTE: For more information regarding jacking and hoisting points refer to the JACKING & HOISTING article in the WHEEL ALIGNMENT section.

INFORMATION LABEL LOCATIONS

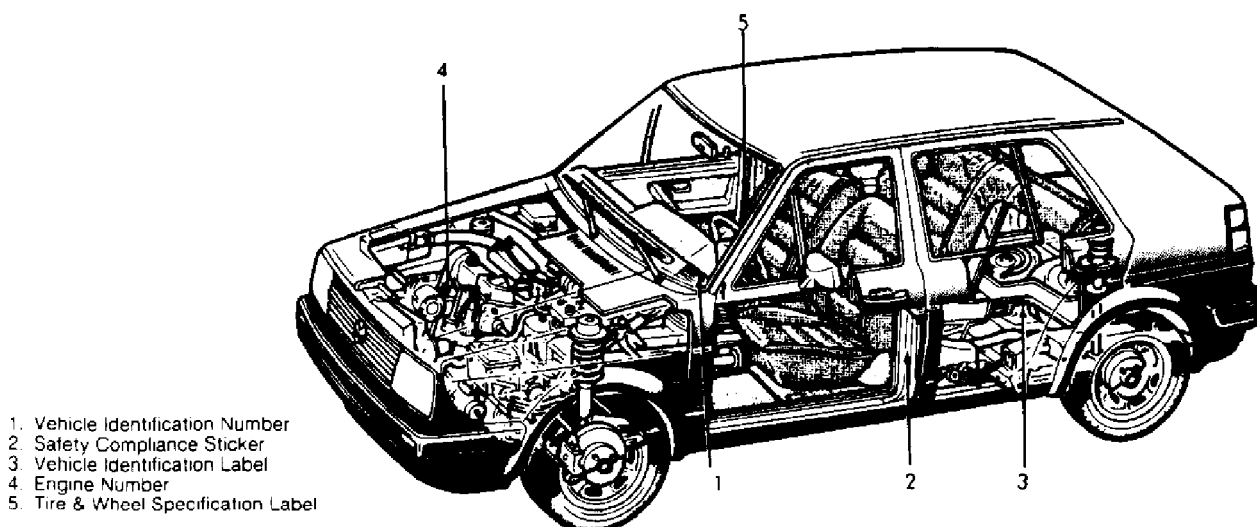


Fig. 6: Information Label Locations
Courtesy of Volkswagen United States, Inc.

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

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Condition	Action	Item	Perform Every (1)

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```
3 Short Trips In 3 Replace 3Engine Oil & 3 3,750 Miles or 3 Months 3
3 Freezing 3 3 Filter 3
3 Temperatures
3
3 Replace 3 A/T Fluid 3 15,000 Miles 3
3
3Towing Or Heavily 3 Replace 3Engine Oil & 3 3,750 Miles or 3 Months 3
3 Loaded 3 3 Filter 3
3
3 Replace 3 A/T Fluid 3 15,000 Miles 3
3
3 Severe Dust 3 Replace 3Engine Oil & 3 3,750 Miles or 3 Months 3
3 Conditions 3 3 Filter 3
3
3 Replace 3 A/T Fluid 3 15,000 Miles 3
3
3 Hot Weather, 3 Replace 3Engine Oil & 3 3,750 Miles or 3 Months 3
3 Stop-And-Go 3 3 Filter 3
3 Driving 3
3 Replace 3 A/T Fluid 3 15,000 Miles 3
3
3 Extensive Idling 3 Replace 3Engine Oil & 3 3,750 Miles or 3 Months 3
3 3 Filter 3
3
3 Replace 3 A/T Fluid 3 15,000 Miles 3
3
3(1) - Perform these services at the mileage or number of months 3
3 (since the last time), whichever comes first. 3
3
```

NORMAL MAINTENANCE SERVICE SCHEDULES

CAUTION: The following service schedules refer to vehicles driven under normal operating conditions. For vehicles driven under severe conditions, additional services may be necessary. See SEVERE SERVICE REQUIREMENTS (PERFORM W/SERVICE SCHEDULES) above in this article for additional service requirements.

7500 MILE (12,000 KM) SERVICE

7500 MILE (12,000 KM) SERVICE

```
3 Service Or Inspect 3
3
3 Check Fluid Levels 3
3
3 Inspect Coolant Hoses and Clamps 3
3
3 Inspect Brake System 3
3
3 Inspect Exhaust System 3
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3	3	Check Crankcase Ventilation System	3
3	3	Check Fuel Evaporation System	3
3	3	Check EGR System (Reset Mileage Counter - If Applicable)	3
3	3	Check Fluid Levels	3
3	3	Inspect Coolant Hoses and Clamps	3
3	3	Cooling & Heating System	3
3	3	Check Coolant Strength	3
3	3	Inspect/Adjust Accessory Drive Belts (Replace if Required)	3
3	3	Windshield Washer System	3
3	3	Clean Battery and Battery Terminals	3
3	3	Throttle Linkage	3
3	3	Inspect Fuel/Tank/Cap/Lines	3
3	3	Intake Air System	3
3	3	Clutch Hydraulic System	3
3	3	Inspect CV Joint Boots	3
3	3	Drive Shafts For Leaks & Damage	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	Check Seat Belt Webbing and Release Mechanisms	3
3	3	Check Parking Brake Operation	3
3	3	Check Shift/Clutch Interlock Operation	3
3	3	Inspect Brake System Hoses & Lines	3
3	3	Brake Discs & Calipers	3
3	3	Inspect Front Brake Pads & Rotors	3
3	3	Inspect Rear Brake Linings & Drums	3

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3	3	Lubricate Chassis	3
3	3	Inspect Steering Linkage/Front Suspension	3
3	3	Suspension & Wheel Bearings	3
3	3	Steering Operation, Tie Rods, Gear Box & Boots	3
3	3	Lubricate Weatherstripping with Silicone	3
3	3	Lubricate Door Hinges	3
3	3	Lubricate Door Locks	3
3	3	Check Body Drain Holes	3
3	3	Inspect Shocks/Struts for Leakage	3
3	3	Inspect Tire Wear Pattern	3
3	3	Rotate Tires and Adjust Air Pressure (Including Spare)	3
3	3	Replace	3
3	3	Engine Oil	3
3	3	Oil Filter	3
3	3	Clean Air Filter Element (Replace if Required)	3
3	3	Lubrication Specifications	3
3	Application	Specification	3
3	Automatic Transaxle	Dexron-II E ATF	3
3	Brake Fluid	DOT 4 Brake Fluid (SAE J1703)	3
3	Coolant	50/50 Mix Water & Ethylene Glycol	3
3	Engine Oil (1)		3
3	Ambient Temperatures		3
3	Greater Than 140 F (-100C)	SAE 15W-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	Power Steering Fluid	VW Hydraulic Oil G-002-000	3
3	Manual Transaxle	Hypoid Gear Oil SAE 75W-90 API GL-4	3
3		Or SAE 75W-90 (G50 Synthetic)	3
3	Final Drive (A/T & M/T)		3
3	(Differential)	SAE 75W-90 (G50 Synthetic Gear Oil)	3
3	Wheel Bearings	NLGI Grade 2 Category GC-LB	3
3	Steering Linkage (2)(3)	NLGI Grade 2 Category GC-LB	3
3	Ball Joints (2)(4)	NLGI Grade 2 Category GC-LB	3
3	Weatherstrip	Dielectric Silicone Grease	3
3			3

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(1) - SAE 15W-40 or 20W-40 engine oil is recommended for extreme conditions or extended highway operation.

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

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

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

Fluid Capacities

Application (1) Quantity

Cooling System

Convertible 5.1 Qts. (4.8L)

Engine Oil (2) 4.7 Qts. (4.5L)

Automatic Transaxle

Fluid Change 3.2 Qts. (3.0L)

Dry Fill 5.9 Qts. (5.6L)

Final Drive (Differential)

A/T (3) 0.8 Qt. (.75L)

Manual Transaxle (4) 2.0 Qts. (1.9L)

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

(2) - Includes filter change.

(3) - Lifetime fill.

(4) - Single case includes manual transaxle & differential.

Service Labor Times

Application (1) (2) (3) Hours

Gasoline Engine

Automatic Transmission 1.5

Manual Transmission 1.7

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

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

(3) - Add .5 hr. for 1983-84 Jetta, Rabbit and Pickup.

22,500 MILE (36,000 KM) SERVICE

22,500 MILE (36,000 KM) SERVICE

Service Or Inspect

Verify Last Major Service Was Performed

Check Fluid Levels

Inspect Coolant Hoses and Clamps

Inspect Brake System

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AAAAAA	
3 3	Inspect Exhaust System
AAAAAA	
3 3	Inspect CV Joint Boots
AAAAAA	
3 3	Lubricate Chassis
AAAAAA	
3	Replace
AAAAAA	
3 3	Engine Oil
AAAAAA	
3 3	Oil Filter
AAAAAA	
3	Lubrication Specifications
AAAAAA	
3	Application
AAAAAA	
3	Engine Oil
AAAAAA	
3	Ambient Temperatures
AAAAAA	
3	Greater Than 140 F (-10C) .. SAE 15W-40 Or 20W-50 API SG/CD
AAAAAA	
3	140-50F (-10 To +10C) SAE 10W-30 Or 10W-40 API SG/CD
AAAAAA	
3	Less Than 50F (10C) SAE 5W-30 Or 5W-40 API SG/CD
AAAAAA	
3	Fluid Capacities
AAAAAA	
3	Application
AAAAAA	
3	Engine Oil (2) 4.7 Qts. (4.5L)
AAAAAA	
3	(1) - Capacities are recommended or calculated levels. Always use
AAAAAA	
3	dipstick (if available) to measure level.
AAAAAA	
3	(2) - Includes filter change.
AAAAAA	

30,000 MILE (48,000 KM) SERVICE

30,000 MILE (48,000 KM) SERVICE	
AAAAAA	
3	Service Or Inspect
AAAAAA	
3 3	Verify Last Major Service Was Performed
AAAAAA	
3 3	Diagnostic System Read Out
AAAAAA	
3 3	Inspect For Fluid Leaks
AAAAAA	
3 3	Inspect Camshaft Timing Belt (Replace if Required)
AAAAAA	
3 3	Check/Adjust Valve Clearance
AAAAAA	
3 3	Check/Adjust Idle Speed
AAAAAA	

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3	3	Perform Compression Test	3
AAAAA			/
3	3	Check Crankcase Ventilation System	3
AAAAA			/
3	3	Check Fuel Evaporation System	3
AAAAA			/
3	3	Check EGR System (Reset Mileage Counter - If Applicable)	3
AAAAA			/
3	3	Check Fluid Levels	3
AAAAA			/
3	3	Inspect Coolant Hoses and Clamps	3
AAAAA			/
3	3	Cooling & Heating System	3
AAAAA			/
3	3	Crankcase Ventilation System	3
AAAAA			/
3	3	Check Coolant Strength	3
AAAAA			/
3	3	Inspect/Adjust Accessory Drive Belts (Replace if Required)	3
AAAAA			/
3	3	Windshield Washer System	3
AAAAA			/
3	3	Clean Battery and Battery Terminals	3
AAAAA			/
3	3	Throttle Linkage	3
AAAAA			/
3	3	Fuel System	3
AAAAA			/
3	3	Intake Air System	3
AAAAA			/
3	3	Clutch Hydraulic System	3
AAAAA			/
3	3	Inspect CV Joint Boots	3
AAAAA			/
3	3	Drive Shafts For Leaks & Damage	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	Check Seat Belt Webbing and Release Mechanisms	3
AAAAA			/
3	3	Check Parking Brake Operation	3
AAAAA			/
3	3	Check Shift/Clutch Interlock Operation	3
AAAAA			/
3	3	Inspect Brake System Hoses & Lines	3
AAAAA			/
3	3	Brake Discs & Calipers	3
AAAAA			/

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3	3	Inspect Front Brake Pads & Rotors	3
3	3	Inspect Rear Brake Linings & Drums	3
3	3	Lubricate Chassis	3
3	3	Inspect Steering Linkage/Front Suspension	3
3	3	Suspension & Wheel Bearings	3
3	3	Steering Operation, Tie Rods, Gear Box & Boots	3
3	3	Lubricate Weatherstripping with Silicone	3
3	3	Lubricate Door Hinges	3
3	3	Lubricate Door Locks	3
3	3	Check Body Drain Holes	3
3	3	Inspect Shocks/Struts for Leakage	3
3	3	Inspect Tire Wear Pattern	3
3	3	Rotate Tires and Adjust Air Pressure (Including Spare)	3
3		Replace	3
3	3	Engine Oil	3
3	3	Oil Filter	3
3	3	Air Filter Element	3
3	3	Spark Plugs	3
3	3	Fuel Filter	3
3	3	Change Automatic Transaxle Fluid & Clean Strainer	3
3	3	Drain, Flush and Refill Engine Coolant	3
3	3	Drain, Refill and Bleed Brake System Fluid	3
3		Lubrication Specifications	3
3	Application	Specification	3
3	Automatic Transaxle	Dexron- IIE ATF	3
3	Brake Fluid	DOT 4 Brake Fluid (SAE J1703)	3
3	Coolant	50/50 Mix Water & Ethylene Glycol	3
3	Engine Oil (1)		3

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3	Ambient Temperatures	3
3	Greater Than 140 F (- 100C) .. SAE 15W-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	Power Steering Fluid VW Hydraulic Oil G-002-000	3
3	Manual Transaxle Hypoid Gear Oil SAE 75W-90 API GL-4	3
3	Or SAE 75W-90 (G50 Synthetic)	3
3	Final Drive (A/T & M/T)	3
3	(Differential) SAE 75W-90 (G50 Synthetic Gear Oil)	3
3	Wheel Bearings NLGI Grade 2 Category GC-LB	3
3	Steering Linkage (2)(3) NLGI Grade 2 Category GC-LB	3
3	Ball Joints (2)(4) NLGI Grade 2 Category GC-LB	3
3	Weatherstrip Dielectric Silicone Grease	3
3		3
3	(1) - SAE 15W-40 or 20W-40 engine oil is recommended for extreme	3
3	conditions or extended highway operation.	3
3	(2) - Use low pressure grease gun to prevent seal damage.	3
3	(3) - Fill until lubricant squeezes out from the base of seals.	3
3	(4) - Fill ball joint until seal starts to swell.	3
3	AA	3
3	Fluid Capacities	3
3	AA	3
3	Application	(1) Quantity
3		3
3	Cooling System	3
3	Convertible 5.1 Qts. (4.8L)	3
3	Engine Oil (2) 4.7 Qts. (4.5L)	3
3	Automatic Transaxle	3
3	Fluid Change 3.2 Qts. (3.0L)	3
3	Dry Fill 5.9 Qts. (5.6L)	3
3	Final Drive (Differential)	3
3	A/T (3) 0.8 Qt. (.75L)	3
3	Manual Transaxle (4) 2.0 Qts. (1.9L)	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
3	(3) - Lifetime fill.	3
3	(4) - Single case includes manual transaxle & differential.	3
3	AA	3
3	Service Labor Times	3
3	AA	3
3	Application	(1) (2) (3) Hours
3		3
3	Gasoline Engine	3
3	Automatic Transmission 3.2	3
3	Manual Transmission 2.6	3
3		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 the following times to replace camshaft timing belt.	3
3	2.2 hours on engines with air conditioning and 1.8 hours	3

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on engines without air conditioning.

37,500 MILE (60,000 KM) SERVICE

37,500 MILE (60,000 KM) SERVICE

Service Or Inspect

Verify Last Major Service Was Performed

Check Fluid Levels

Inspect Coolant Hoses and Clamps

Inspect Brake System

Inspect Exhaust System

Inspect CV Joint Boots

Lubricate Chassis

Replace

Engine Oil

Oil Filter

Lubrication Specifications

Application

Engine Oil

Ambient Temperatures

Greater Than 140 F (-10C) .. SAE 15W-40 Or 20W-50 API SG/CD

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

Less Than 500F (10C) SAE 5W-30 Or 5W-40 API SG/CD

Fluid Capacities

Application

Engine Oil (2) 4.7 Qts. (4.5L)

(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

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45, 000 MILE (72, 000 KM) SERVICE

3	Service Or Inspect	3
3	Verify Last Major Service Was Performed	3
3	Diagnostic System Read Out	3
3	Inspect For Fluid Leaks	3
3	Inspect Camshaft Timing Belt (Replace if Required)	3
3	Check/Adjust Valve Clearance	3
3	Check/Adjust Idle Speed	3
3	Perform Compression Test	3
3	Check Crankcase Ventilation System	3
3	Check Fuel Evaporation System	3
3	Check EGR System (Reset Mileage Counter - If Applicable)	3
3	Check Fluid Levels	3
3	Inspect Coolant Hoses and Clamps	3
3	Cooling & Heating System	3
3	Crankcase Ventilation System	3
3	Check Coolant Strength	3
3	Inspect/Adjust Accessory Drive Belts (Replace if Required)	3
3	Windshield Washer System	3
3	Clean Battery and Battery Terminals	3
3	Throttle Linkage	3
3	Fuel System	3
3	Intake Air System	3
3	Clutch Hydraulic System	3
3	Inspect CV Joint Boots	3
3	Drive Shafts For Leaks & Damage	3

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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 Check Seat Belt Webbing and Release Mechanisms 3

3 3 Check Parking Brake Operation 3

3 3 Check Shift/Clutch Interlock Operation 3

3 3 Inspect Brake System Hoses & Lines 3

3 3 Brake Discs & Calipers 3

3 3 Inspect Front Brake Pads & Rotors 3

3 3 Inspect Rear Brake Linings & Drums 3

3 3 Lubricate Chassis 3

3 3 Inspect Steering Linkage/Front Suspension 3

3 3 Suspension & Wheel Bearings 3

3 3 Steering Operation, Tie Rods, Gear Box & Boots 3

3 3 Lubricate Weatherstripping with Silicone 3

3 3 Lubricate Door Hinges 3

3 3 Lubricate Door Locks 3

3 3 Check Body Drain Holes 3

3 3 Inspect Shocks/Struts for Leakage 3

3 3 Inspect Tire Wear Pattern 3

3 3 Rotate Tires and Adjust Air Pressure (Including Spare) 3

3 Replace 3

3 3 Engine Oil 3

3 3 Oil Filter 3

3 3 Clean Air Filter Element (Replace if Required) 3

3 3 Spark Plugs (Except California Models) 3

³ (4) - Single case includes manual transaxle & differential. 3

SCHEDULED SERVICES

Article Text (p. 21)

1996 Volkswagen Golf

For Volkswagen Technical Site

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Thursday, August 19, 1999 11:50PM

AAUU

52,500 MILE (84,000 KM) SERVICE

52, 500 MILE (84, 000 KM) SERVICE

UAAA;

3 Service Or Inspect 3

AAA/

3 3 Verify Last Major Service Was Performed 3

AAA/

3 3 Check Fluid Levels 3

AAA/

3 3 Inspect Coolant Hoses and Clamps 3

AAA/

3 3 Inspect Brake System 3

AAA/

3 3 Inspect Exhaust System 3

AAA/

3 3 Inspect CV Joint Boots 3

AAA/

3 3 Lubricate Chassis 3

AAA/

3 Replace 3

AAA/

3 3 Engine Oil 3

AAA/

3 3 Oil Filter 3

AAA/

3 Lubrication Specifications 3

AAA/

3 Application Speci fi cation 3

3 3

3 Engine Oil 3

3 Ambient Temperatures 3

3 Greater Than 140 F (- 100C) .. SAE 15W-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

AAA/

3 Fluid Capacities 3

AAA/

3 Application (1) Quantity 3

3 3

3 Engine Oil (2) 4.7 Qts. (4.5L) 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

AAUU

60,000 MILE (96,000 KM) SERVICE

Thursday, August 19, 1999 11:50PM

60, 000 MILE (96, 000 KM) SERVICE

3	Service Or Inspect	3
3	Verify Last Major Service Was Performed	3
3	Diagnostic System Read Out	3
3	Inspect For Fluid Leaks	3
3	Inspect Camshaft Timing Belt (Replace if Required)	3
3	Check/Adjust Valve Clearance	3
3	Check/Adjust Idle Speed	3
3	Perform Compression Test	3
3	Check Crankcase Ventilation System	3
3	Check Fuel Evaporation System	3
3	Check EGR System (Reset Mileage Counter - If Applicable)	3
3	Check Fluid Levels	3
3	Inspect Coolant Hoses and Clamps	3
3	Cooling & Heating System	3
3	Crankcase Ventilation System	3
3	Check Coolant Strength	3
3	Inspect/Adjust Accessory Drive Belts (Replace if Required)	3
3	Windshield Washer System	3
3	Clean Battery and Battery Terminals	3
3	Throttle Linkage	3
3	Fuel System	3
3	Intake Air System	3
3	Clutch Hydraulic System	3
3	Inspect CV Joint Boots	3
3	Drive Shafts For Leaks & Damage	3

SCHEDULED SERVICES

Article Text (p. 23)

1996 Volkswagen Golf

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Thursday, August 19, 1999 11:50PM

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	Check Seat Belt Webbing and Release Mechanisms	3
AAAAA			/
3	3	Check Parking Brake Operation	3
AAAAA			/
3	3	Check Shift/Clutch Interlock Operation	3
AAAAA			/
3	3	Inspect Brake System Hoses & Lines	3
AAAAA			/
3	3	Brake Discs & Calipers	3
AAAAA			/
3	3	Inspect Front Brake Pads & Rotors	3
AAAAA			/
3	3	Inspect Rear Brake Linings & Drums	3
AAAAA			/
3	3	Lubricate Chassis	3
AAAAA			/
3	3	Inspect Steering Linkage/Front Suspension	3
AAAAA			/
3	3	Suspension & Wheel Bearings	3
AAAAA			/
3	3	Steering Operation, Tie Rods, Gear Box & Boots	3
AAAAA			/
3	3	Lubricate Weatherstripping with Silicone	3
AAAAA			/
3	3	Lubricate Door Hinges	3
AAAAA			/
3	3	Lubricate Door Locks	3
AAAAA			/
3	3	Check Body Drain Holes	3
AAAAA			/
3	3	Inspect Shocks/Struts for Leakage	3
AAAAA			/
3	3	Inspect Tire Wear Pattern	3
AAAAA			/
3	3	Rotate Tires and Adjust Air Pressure (Including Spare)	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	Oxygen Sensor (Reset Mileage Counter - If Applicable)	3
AAAAA			/

SCHEDULED SERVICES

Article Text (p. 24)

1996 Volkswagen Golf

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Thursday, August 19, 1999 11:50PM

3	3	Air Filter Element	3
3	3	Fuel Filter	3
3	3	Change Automatic Transaxle Fluid & Clean Strainer	3
3	3	A/T Differential Oil Level (Replace if Required)	3
3	3	Manual Transaxle Fluid Level (Replace if Required)	3
3	3	Drain, Flush and Refill Engine Coolant	3
3	3	Drain, Refill and Bleed Brake System Fluid	3
3	3	Lubrication Specifications	3
3	3	Application	3
3	3	Automatic Transaxle	3
3	3	Brake Fluid	3
3	3	Coolant	3
3	3	Engine Oil (1)	3
3	3	Ambient Temperatures	3
3	3	Greater Than 140 F (-10°C)	3
3	3	140-500F (-10 To +10°C)	3
3	3	Less Than 500F (10°C)	3
3	3	Power Steering Fluid	3
3	3	Manual Transaxle	3
3	3	Final Drive (A/T & M/T)	3
3	3	(Differential)	3
3	3	Wheel Bearings	3
3	3	Steering Linkage (2)(3)	3
3	3	Ball Joints (2)(4)	3
3	3	Weatherstrip	3
3	3	(1) - SAE 15W-40 or 20W-40 engine oil is recommended for extreme conditions or extended highway operation.	3
3	3	(2) - Use low pressure grease gun to prevent seal damage.	3
3	3	(3) - Fill until lubricant squeezes out from the base of seals.	3
3	3	(4) - Fill ball joint until seal starts to swell.	3
3	3	Fluid Capacities	3
3	3	Application	3
3	3	Cooling System	3
3	3	Convertible	3
3	3	Pickup	3
3	3	Rabbit	3
3	3	Engine Oil (2)	3
3	3	Automatic Transaxle	3

SCHEDULED SERVICES

Article Text (p. 25)

1996 Volkswagen Golf

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Thursday, August 19, 1999 11:50PM

3	Fluid Change	3.2 Qts. (3.0L)	3
3	Dry Fill	5.9 Qts. (5.6L)	3
3	Final Drive (Differential)		3
3	A/T (3)	0.8 Qt. (.75L)	3
3	Manual Transaxle (4)	2.0 Qts. (1.9L)	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
3	(3) - Lifetime fill.		3
3	(4) - Single case includes manual transaxle & differential.		3
3	Service Labor Times		3
3	Application	(1) (2) (3) Hours	3
3			3
3	Gasoline Engine		3
3	Automatic Transmission	4.1	3
3	Manual Transmission	3.5	3
3			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 the following times to replace camshaft timing belt.		3
3	2.2 hours on engines with air conditioning and 1.8 hours		3
3	on engines without air conditioning.		3
3			3

67,500 MILE (108,000 KM) SERVICE

67,500 MILE (108,000 KM) SERVICE

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 CV Joint Boots		3
3	Lubricate Chassis		3
3	Replace		3
3	Engine Oil		3
3	Oil Filter		3

Thursday, August 19, 1999 11:50PM

~~~~~  
 3 Lubrication Specifications 3  
 ~~~~~  
 3 Application Specification 3
 3
 3 Engine Oil 3
 3 Ambient Temperatures 3
 3 Greater Than 140° F (-10°C) .. SAE 15W-40 Or 20W-50 API SG/CD 3
 3 140-50°F (-10° To +10°C) SAE 10W-30 Or 10W-40 API SG/CD 3
 3 Less Than 50°F (10°C) SAE 5W-30 Or 5W-40 API SG/CD 3
 ~~~~~  
 3 Fluid Capacities 3  
 ~~~~~  
 3 Application (1) Quantity 3
 3
 3 Engine Oil (2) 4.7 Qts. (4.5L) 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
 ~~~~~

## 75,000 MILE (120,000 KM) SERVICE

[illegible]

# SCHEDULED SERVICES

## Article Text (p. 27)

1996 Volkswagen Golf

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Thursday, August 19, 1999 11:50PM

|   |   |                                                               |   |
|---|---|---------------------------------------------------------------|---|
| 3 | 3 | Cooling & Heating System                                      | 3 |
| 3 | 3 | Crankcase Ventilation System                                  | 3 |
| 3 | 3 | Check Coolant Strength                                        | 3 |
| 3 | 3 | Inspect/Adjust Accessory Drive Belts (Replace if Required)    | 3 |
| 3 | 3 | Windshield Washer System                                      | 3 |
| 3 | 3 | Clean Battery and Battery Terminals                           | 3 |
| 3 | 3 | Throttle Linkage                                              | 3 |
| 3 | 3 | Fuel System                                                   | 3 |
| 3 | 3 | Intake Air System                                             | 3 |
| 3 | 3 | Clutch Hydraulic System                                       | 3 |
| 3 | 3 | Inspect CV Joint Boots                                        | 3 |
| 3 | 3 | Drive Shafts For Leaks & Damage                               | 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 | Check Seat Belt Webbing and Release Mechanisms                | 3 |
| 3 | 3 | Check Parking Brake Operation                                 | 3 |
| 3 | 3 | Check Shift/Clutch Interlock Operation                        | 3 |
| 3 | 3 | Inspect Brake System Hoses & Lines                            | 3 |
| 3 | 3 | Brake Discs & Calipers                                        | 3 |
| 3 | 3 | Inspect Front Brake Pads & Rotors                             | 3 |
| 3 | 3 | Inspect Rear Brake Linings & Drums                            | 3 |
| 3 | 3 | Lubricate Chassis                                             | 3 |
| 3 | 3 | Inspect Steering Linkage/Front Suspension                     | 3 |
| 3 | 3 | Suspension & Wheel Bearings                                   | 3 |
| 3 | 3 | Steering Operation, Tie Rods, Gear Box & Boots                | 3 |

# SCHEDULED SERVICES

## Article Text (p. 28)

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|   |                                                                  |                                                        |   |
|---|------------------------------------------------------------------|--------------------------------------------------------|---|
| 3 | 3                                                                | Lubricate Weatherstripping with Silicone               | 3 |
| 3 | 3                                                                | Lubricate Door Hinges                                  | 3 |
| 3 | 3                                                                | Lubricate Door Locks                                   | 3 |
| 3 | 3                                                                | Check Body Drain Holes                                 | 3 |
| 3 | 3                                                                | Inspect Shocks/Struts for Leakage                      | 3 |
| 3 | 3                                                                | Inspect Tire Wear Pattern                              | 3 |
| 3 | 3                                                                | Rotate Tires and Adjust Air Pressure (Including Spare) | 3 |
| 3 |                                                                  | Replace                                                | 3 |
| 3 | 3                                                                | Engine Oil                                             | 3 |
| 3 | 3                                                                | Oil Filter                                             | 3 |
| 3 | 3                                                                | Clean Air Filter Element (Replace if Required)         | 3 |
| 3 | 3                                                                | Spark Plugs (Except California Models)                 | 3 |
| 3 | 3                                                                | Fuel Filter                                            | 3 |
| 3 |                                                                  | Lubrication Specifications                             | 3 |
| 3 | Application                                                      | Specification                                          | 3 |
| 3 | Automatic Transaxle                                              | Dexron-II E ATF                                        | 3 |
| 3 | Brake Fluid                                                      | DOT 4 Brake Fluid (SAE J1703)                          | 3 |
| 3 | Coolant                                                          | 50/50 Mix Water & Ethylene Glycol                      | 3 |
| 3 | Engine Oil (1)                                                   |                                                        | 3 |
| 3 | Ambient Temperatures                                             |                                                        | 3 |
| 3 | Greater Than 140 F (-100C)                                       | SAE 15W-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 | Power Steering Fluid                                             | VW Hydraulic Oil G-002-000                             | 3 |
| 3 | Manual Transaxle                                                 | Hypoid Gear Oil SAE 75W-90 API GL-4                    | 3 |
| 3 |                                                                  | Or SAE 75W-90 (G50 Synthetic)                          | 3 |
| 3 | Final Drive (A/T & M/T)                                          |                                                        | 3 |
| 3 | (Differential)                                                   | SAE 75W-90 (G50 Synthetic Gear Oil)                    | 3 |
| 3 | Wheel Bearings                                                   | NLGI Grade 2 Category GC-LB                            | 3 |
| 3 | Steering Linkage (2)(3)                                          | NLGI Grade 2 Category GC-LB                            | 3 |
| 3 | Ball Joints (2)(4)                                               | NLGI Grade 2 Category GC-LB                            | 3 |
| 3 | Weatherstrip                                                     | Dielectric Silicone Grease                             | 3 |
| 3 | (1) - SAE 15W-40 or 20W-40 engine oil is recommended for extreme |                                                        | 3 |
| 3 | conditions or extended highway operation.                        |                                                        | 3 |
| 3 | (2) - Use low pressure grease gun to prevent seal damage.        |                                                        | 3 |
| 3 | (3) - Fill until lubricant squeezes out from the base of seals.  |                                                        | 3 |

## SCHEDULED SERVICES

### Article Text (p. 29)

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

Fluid Capacities

Application (1) Quantity

Cooling System

Convertible ..... 5.1 Qts. (4.8L)

Pickup ..... 6.9 Qts. (6.4L)

Rabbit ..... 5.2 Qts. (5.0L)

Engine Oil (2) ..... 4.7 Qts. (4.5L)

Automatic Transaxle

Fluid Change ..... 3.2 Qts. (3.0L)

Dry Fill ..... 5.9 Qts. (5.6L)

Final Drive (Differential)

A/T (3) ..... 0.8 Qt. (.75L)

Manual Transaxle (4) ..... 2.0 Qts. (1.9L)

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

dipstick (if available) to measure level.

(2) - Includes filter change.

(3) - Lifetime fill.

(4) - Single case includes manual transaxle & differential.

Service Labor Times

Application (1) (2) Hours

Gasoline Engine

Automatic Transmission ..... 1.5

Manual Transmission ..... 1.7

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

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

## 82,500 MILE (132,000 KM) SERVICE

### 82,500 MILE (132,000 KM) SERVICE

Service Or Inspect

Verify Last Major Service Was Performed

Check Fluid Levels

Inspect Coolant Hoses and Clamps

Inspect Brake System

Inspect Exhaust System

## SCHEDULED SERVICES

### Article Text (p. 30)

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|   |                                                                   |                                     |   |
|---|-------------------------------------------------------------------|-------------------------------------|---|
| 3 | 3                                                                 | Inspect CV Joint Boots              | 3 |
| 3 | 3                                                                 | Lubricate Chassis                   | 3 |
| 3 |                                                                   | Replace                             | 3 |
| 3 | 3                                                                 | Engine Oil                          | 3 |
| 3 | 3                                                                 | Oil Filter                          | 3 |
| 3 |                                                                   | Lubrication Specifications          | 3 |
| 3 | Application                                                       | Speci fication                      | 3 |
| 3 | Engine Oil                                                        |                                     | 3 |
| 3 | Ambient Temperatures                                              |                                     | 3 |
| 3 | Greater Than 140 F (- 100C)                                       | .. SAE 15W-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 | Fluid Capacities                                                  |                                     | 3 |
| 3 | Application                                                       | (1) Quantity                        | 3 |
| 3 | Engine Oil (2)                                                    | 4.7 Qts. (4.5L)                     | 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 |

## 90,000 MILE (144,000 KM) SERVICE

### 90,000 MILE (144,000 KM) SERVICE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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3 3 Check Fuel Evaporation System

3 3 Check EGR System (Reset Mileage Counter - If Applicable)

3 3 Check Fluid Levels

3 3 Inspect Coolant Hoses and Clamps

3 3 Cooling & Heating System

3 3 Crankcase Ventilation System

3 3 Check Coolant Strength

3 3 Inspect/Adjust Accessory Drive Belts (Replace if Required)

3 3 Windshield Washer System

3 3 Clean Battery and Battery Terminals

3 3 Throttle Linkage

3 3 Fuel System

3 3 Intake Air System

3 3 Clutch Hydraulic System

3 3 Inspect CV Joint Boots

3 3 Drive Shafts For Leaks & Damage

3 3 Check Operation of Horn, Wipers/Washers & All Exterior Lights

3 3 Inspect Condition of Wiper Blades

3 3 Check Headlight Alignment

3 3 Check Seat Belt Webbing and Release Mechanisms

3 3 Check Parking Brake Operation

3 3 Check Shift/Clutch Interlock Operation

3 3 Inspect Brake System Hoses & Lines

3 3 Brake Discs & Calipers

3 3 Inspect Front Brake Pads & Rotors

3 3 Inspect Rear Brake Linings & Drums

| Application                                            | Specification          |
|--------------------------------------------------------|------------------------|
| Automatic Transaxle                                    | Dexron-II E ATF        |
| Manual Transaxle                                       | SAE 75W-90 GL-4        |
| Engine Oil                                             | SAE 15W-40 Multi-Grade |
| Oil Filter                                             | Wix 55                 |
| Spark Plugs                                            | NGK                    |
| Oxygen Sensor (Reset Mileage Counter - If Applicable)  | NGK                    |
| Air Filter Element                                     | Wix 44                 |
| Fuel Filter                                            | Wix 44                 |
| Change Automatic Transaxle Fluid & Clean Strainer      | SAE 75W-90 GL-4        |
| A/T Differential Oil Level (Replace if Required)       | SAE 75W-90 GL-4        |
| Manual Transaxle Fluid Level (Replace if Required)     | SAE 75W-90 GL-4        |
| Drain, Flush and Refill Engine Coolant                 | SAE 15W-40 Multi-Grade |
| Drain, Refill and Bleed Brake System Fluid             | SAE 15W-40 Multi-Grade |
| Lubrication Specifications                             |                        |
| Lubricate Chassis                                      |                        |
| Inspect Steering Linkage/Front Suspension              |                        |
| Suspension & Wheel Bearings                            |                        |
| Steering Operation, Tie Rods, Gear Box & Boots         |                        |
| Lubricate Weatherstripping with Silicone               |                        |
| Lubricate Door Hinges                                  |                        |
| Lubricate Door Locks                                   |                        |
| Check Body Drain Holes                                 |                        |
| Inspect Shocks/Struts for Leakage                      |                        |
| Inspect Tire Wear Pattern                              |                        |
| Rotate Tires and Adjust Air Pressure (Including Spare) |                        |
| Replace                                                |                        |



## SCHEDULED SERVICES

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|                            |                                                                      |
|----------------------------|----------------------------------------------------------------------|
| Brake Fluid                | DOT 4 Brake Fluid (SAE J1703)                                        |
| Coolant                    | 50/50 Mix Water & Ethylene Glycol                                    |
| Engine Oil (1)             |                                                                      |
| Ambient Temperatures       |                                                                      |
| Greater Than 140 F (-10°C) | SAE 15W-40 or 20W-50 API SG/CD                                       |
| 140-500F (-10 To +10°C)    | SAE 10W-30 or 10W-40 API SG/CD                                       |
| Less Than 500F (10°C)      | SAE 5W-30 or 5W-40 API SG/CD                                         |
| Power Steering Fluid       | VW Hydraulic Oil G-002-000                                           |
| Manual Transaxle           | Hypoid Gear Oil SAE 75W-90 API GL-4<br>or SAE 75W-90 (G50 Synthetic) |

|                         |                                     |
|-------------------------|-------------------------------------|
| Final Drive (A/T & M/T) |                                     |
| (Differential)          | SAE 75W-90 (G50 Synthetic Gear Oil) |
| Wheel Bearings          | NLGI Grade 2 Category GC-LB         |
| Steering Linkage (2)(3) | NLGI Grade 2 Category GC-LB         |
| Ball Joints (2)(4)      | NLGI Grade 2 Category GC-LB         |
| Weatherstrip            | Dielectric Silicone Grease          |

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

#### Fluid Capacities

|             |              |
|-------------|--------------|
| Application | (1) Quantity |
|-------------|--------------|

|                            |                 |
|----------------------------|-----------------|
| Cooling System             |                 |
| Convertible                | 5.1 Qts. (4.8L) |
| Pickup                     | 6.9 Qts. (6.4L) |
| Rabbit                     | 5.2 Qts. (5.0L) |
| Engine Oil (2)             | 4.7 Qts. (4.5L) |
| Automatic Transaxle        |                 |
| Fluid Change               | 3.2 Qts. (3.0L) |
| Dry Fill                   | 5.9 Qts. (5.6L) |
| Final Drive (Differential) |                 |
| A/T (3)                    | 0.8 Qt. (.75L)  |
| Manual Transaxle (4)       | 2.0 Qts. (1.9L) |

- (1) - Capacities are recommended or calculated levels. Always use dipstick (if available) to measure level.
- (2) - Includes filter change.
- (3) - Lifetime fill.
- (4) - Single case includes manual transaxle & differential.

#### Service Labor Times

|             |                   |
|-------------|-------------------|
| Application | (1) (2) (3) Hours |
|-------------|-------------------|

|                        |     |
|------------------------|-----|
| Gasoline Engine        |     |
| Automatic Transmission | 3.2 |
| Manual Transmission    | 2.6 |

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

### 97,500 MILE (156,000 KM) SERVICE

#### 97,500 MILE (156,000 KM) SERVICE

Service Or Inspect  
Verify Last Major Service Was Performed  
Check Fluid Levels  
Inspect Coolant Hoses and Clamps  
Inspect Brake System  
Inspect Exhaust System  
Inspect CV Joint Boots  
Lubricate Chassis  
Replace  
Engine Oil  
Oil Filter  
Lubrication Specifications  
Application Specification  
Engine Oil  
Ambient Temperatures  
Greater Than 140 F (-10°C) ... SAE 15W-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) ..... 4.7 Qts. (4.5L)  
(1) - Capacities are recommended or calculated levels. Always use  
dipstick (if available) to measure level.

3 3 Clutch Hydraulic System 3

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|   |   |                                                               |   |
|---|---|---------------------------------------------------------------|---|
| 3 | 3 | Inspect CV Joint Boots                                        | 3 |
| 3 | 3 | Drive Shafts For Leaks & Damage                               | 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 | Check Seat Belt Webbing and Release Mechanisms                | 3 |
| 3 | 3 | Check Parking Brake Operation                                 | 3 |
| 3 | 3 | Check Shift/Clutch Interlock Operation                        | 3 |
| 3 | 3 | Inspect Brake System Hoses & Lines                            | 3 |
| 3 | 3 | Brake Discs & Calipers                                        | 3 |
| 3 | 3 | Inspect Front Brake Pads & Rotors                             | 3 |
| 3 | 3 | Inspect Rear Brake Linings & Drums                            | 3 |
| 3 | 3 | Lubricate Chassis                                             | 3 |
| 3 | 3 | Inspect Steering Linkage/Front Suspension                     | 3 |
| 3 | 3 | Suspension & Wheel Bearings                                   | 3 |
| 3 | 3 | Steering Operation, Tie Rods, Gear Box & Boots                | 3 |
| 3 | 3 | Lubricate Weatherstripping with Silicone                      | 3 |
| 3 | 3 | Lubricate Door Hinges                                         | 3 |
| 3 | 3 | Lubricate Door Locks                                          | 3 |
| 3 | 3 | Check Body Drain Holes                                        | 3 |
| 3 | 3 | Inspect Shocks/Struts for Leakage                             | 3 |
| 3 | 3 | Inspect Tire Wear Pattern                                     | 3 |
| 3 | 3 | Rotate Tires and Adjust Air Pressure (Including Spare)        | 3 |
| 3 |   | Replace                                                       | 3 |
| 3 | 3 | Engine Oil                                                    | 3 |
| 3 | 3 | Oil Filter                                                    | 3 |

# SCHEDULED SERVICES

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|                                                                                                            |                                                                      |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Clean Air Filter Element (Replace if Required)                                                             |                                                                      |
| Spark Plugs (Except California Models)                                                                     |                                                                      |
| Fuel Filter                                                                                                |                                                                      |
| Lubrication Specifications                                                                                 |                                                                      |
| Application                                                                                                | Specification                                                        |
| Automatic Transaxle                                                                                        | Dexron-II E ATF                                                      |
| Brake Fluid                                                                                                | DOT 4 Brake Fluid (SAE J1703)                                        |
| Coolant                                                                                                    | 50/50 Mix Water & Ethylene Glycol                                    |
| Engine Oil (1)                                                                                             |                                                                      |
| Ambient Temperatures                                                                                       |                                                                      |
| Greater Than 140 F (-10C)                                                                                  | SAE 15W-40 Or 20W-50 API SG/CD                                       |
| 140-500F (-10 To +10C)                                                                                     | SAE 10W-30 Or 10W-40 API SG/CD                                       |
| Less Than 500F (10C)                                                                                       | SAE 5W-30 Or 5W-40 API SG/CD                                         |
| Power Steering Fluid                                                                                       | VW Hydraulic Oil G-002-000                                           |
| Manual Transaxle                                                                                           | Hypoid Gear Oil SAE 75W-90 API GL-4<br>Or SAE 75W-90 (G50 Synthetic) |
| Final Drive (A/T & M/T)                                                                                    |                                                                      |
| (Differential)                                                                                             | SAE 75W-90 (G50 Synthetic Gear Oil)                                  |
| Wheel Bearings                                                                                             | NLGI Grade 2 Category GC-LB                                          |
| Steering Linkage (2)(3)                                                                                    | NLGI Grade 2 Category GC-LB                                          |
| Ball Joints (2)(4)                                                                                         | NLGI Grade 2 Category GC-LB                                          |
| Weatherstrip                                                                                               | Dielectric Silicone Grease                                           |
| (1) - SAE 15W-40 or 20W-40 engine oil is recommended for extreme conditions or extended highway operation. |                                                                      |
| (2) - Use low pressure grease gun to prevent seal damage.                                                  |                                                                      |
| (3) - Fill until lubricant squeezes out from the base of seals.                                            |                                                                      |
| (4) - Fill ball joint until seal starts to swell.                                                          |                                                                      |
| Fluid Capacities                                                                                           |                                                                      |
| Application                                                                                                | (1) Quantity                                                         |
| Cooling System                                                                                             |                                                                      |
| Convertible                                                                                                | 5.1 Qts. (4.8L)                                                      |
| Pickup                                                                                                     | 6.9 Qts. (6.4L)                                                      |
| Rabbit                                                                                                     | 5.2 Qts. (5.0L)                                                      |
| Engine Oil (2)                                                                                             | 4.7 Qts. (4.5L)                                                      |
| Automatic Transaxle                                                                                        |                                                                      |
| Fluid Change                                                                                               | 3.2 Qts. (3.0L)                                                      |
| Dry Fill                                                                                                   | 5.9 Qts. (5.6L)                                                      |
| Final Drive (Differential)                                                                                 |                                                                      |
| A/T (3)                                                                                                    | 0.8 Qt. (.75L)                                                       |
| Manual Transaxle (4)                                                                                       | 2.0 Qts. (1.9L)                                                      |
| (1) - Capacities are recommended or calculated levels. Always use                                          |                                                                      |

|                                                                                                             |                                     |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Service Or Inspect                                                                                          |                                     |
| Verify Last Major Service Was Performed                                                                     |                                     |
| Check Fluid Levels                                                                                          |                                     |
| Inspect Coolant Hoses and Clamps                                                                            |                                     |
| Inspect Brake System                                                                                        |                                     |
| Inspect Exhaust System                                                                                      |                                     |
| Inspect CV Joint Boots                                                                                      |                                     |
| Lubricate Chassis                                                                                           |                                     |
| Replace                                                                                                     |                                     |
| Engine Oil                                                                                                  |                                     |
| Oil Filter                                                                                                  |                                     |
| Lubrication Specifications                                                                                  |                                     |
| Application                                                                                                 | Specification                       |
| Engine Oil                                                                                                  |                                     |
| Ambient Temperatures                                                                                        |                                     |
| Greater Than 140° F (-10°C)                                                                                 | .. SAE 15W-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)                                                                                              | 4.7 Qts. (4.5L)                     |
| (1) - Capacities are recommended or calculated levels. Always use dipstick (if available) to measure level. |                                     |
| (2) - Includes filter change.                                                                               |                                     |

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|   |                                                            |   |
|---|------------------------------------------------------------|---|
| U | Service Or Inspect                                         | U |
| 3 | Verify Last Major Service Was Performed                    | 3 |
| 3 | Diagnostic System Read Out                                 | 3 |
| 3 | Inspect For Fluid Leaks                                    | 3 |
| 3 | Inspect Camshaft Timing Belt (Replace if Required)         | 3 |
| 3 | Check/Adjust Valve Clearance                               | 3 |
| 3 | Check/Adjust Idle Speed                                    | 3 |
| 3 | Perform Compression Test                                   | 3 |
| 3 | Check Crankcase Ventilation System                         | 3 |
| 3 | Check Fuel Evaporation System                              | 3 |
| 3 | Check EGR System (Reset Mileage Counter - If Applicable)   | 3 |
| 3 | Check Fluid Levels                                         | 3 |
| 3 | Inspect Coolant Hoses and Clamps                           | 3 |
| 3 | Cooling & Heating System                                   | 3 |
| 3 | Crankcase Ventilation System                               | 3 |
| 3 | Check Coolant Strength                                     | 3 |
| 3 | Inspect/Adjust Accessory Drive Belts (Replace if Required) | 3 |
| 3 | Windshield Washer System                                   | 3 |
| 3 | Clean Battery and Battery Terminals                        | 3 |
| 3 | Throttle Linkage                                           | 3 |
| 3 | Fuel System                                                | 3 |
| 3 | Intake Air System                                          | 3 |
| 3 | Clutch Hydraulic System                                    | 3 |
| 3 | Suspension & Wheel Bearings                                | 3 |

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|   |   |                                                               |   |
|---|---|---------------------------------------------------------------|---|
| 3 | 3 | Inspect CV Joint Boots                                        | 3 |
| 3 | 3 | Drive Shafts For Leaks & Damage                               | 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 | Check Seat Belt Webbing and Release Mechanisms                | 3 |
| 3 | 3 | Check Parking Brake Operation                                 | 3 |
| 3 | 3 | Check Shift/Clutch Interlock Operation                        | 3 |
| 3 | 3 | Inspect Brake System Hoses & Lines                            | 3 |
| 3 | 3 | Brake Discs & Calipers                                        | 3 |
| 3 | 3 | Inspect Front Brake Pads & Rotors                             | 3 |
| 3 | 3 | Inspect Rear Brake Linings & Drums                            | 3 |
| 3 | 3 | Lubricate Chassis                                             | 3 |
| 3 | 3 | Inspect Steering Linkage/Front Suspension                     | 3 |
| 3 | 3 | Suspension & Wheel Bearings                                   | 3 |
| 3 | 3 | Steering Operation, Tie Rods, Gear Box & Boots                | 3 |
| 3 | 3 | Lubricate Weatherstripping with Silicone                      | 3 |
| 3 | 3 | Lubricate Door Hinges                                         | 3 |
| 3 | 3 | Lubricate Door Locks                                          | 3 |
| 3 | 3 | Check Body Drain Holes                                        | 3 |
| 3 | 3 | Inspect Shocks/Struts for Leakage                             | 3 |
| 3 | 3 | Inspect Tire Wear Pattern                                     | 3 |
| 3 | 3 | Rotate Tires and Adjust Air Pressure (Including Spare)        | 3 |
| 3 |   | Replace                                                       | 3 |
| 3 | 3 | Engine Oil                                                    | 3 |
| 3 | 3 | Oil Filter                                                    | 3 |



### Cooling System

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|                                  |                 |   |
|----------------------------------|-----------------|---|
| Convertible .....                | 5.1 Qts. (4.8L) | 3 |
| Pickup .....                     | 6.9 Qts. (6.4L) | 3 |
| Rabbit .....                     | 5.2 Qts. (5.0L) | 3 |
| Engine Oil (2) .....             | 4.7 Qts. (4.5L) | 3 |
| Automatic Transaxle .....        |                 | 3 |
| Fluid Change .....               | 3.2 Qts. (3.0L) | 3 |
| Dry Fill .....                   | 5.9 Qts. (5.6L) | 3 |
| Final Drive (Differential) ..... |                 | 3 |
| A/T (3) .....                    | 0.8 Qt. (.75L)  | 3 |
| Manual Transaxle (4) .....       | 2.0 Qts. (1.9L) | 3 |

- (1) - Capacities are recommended or calculated levels. Always use dipstick (if available) to measure level.
- (2) - Includes filter change.
- (3) - Lifetime fill.
- (4) - Single case includes manual transaxle & differential.

### Service Labor Times

| Application | (1) | (2) | (3) | Hours |
|-------------|-----|-----|-----|-------|
|-------------|-----|-----|-----|-------|

|                              |  |  |  |     |
|------------------------------|--|--|--|-----|
| Gasoline Engine              |  |  |  |     |
| 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 the following times to replace camshaft timing belt.
- 2.2 hours on engines with air conditioning and 1.8 hours on engines without air conditioning.

## LUBRICATION SPECIFICATIONS

### LUBRICATION SPECIFICATIONS TABLE

Application Fluid Specifications

|                               |                                     |
|-------------------------------|-------------------------------------|
| Automatic Transaxle .....     | Dexron-II E ATF                     |
| Brake Fluid .....             | DOT 4 Brake Fluid (SAE J1703)       |
| Coolant .....                 | 50/50 Mix Water & Ethylene Glycol   |
| 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-002-000          |
| Manual Transaxle .....        | Hypoid Gear Oil SAE 75W-90 API GL-4 |
|                               | Or SAE 75W-90 (G50 Synthetic)       |
| Final Drive (A/T & M/T)       |                                     |
| (Differential) .....          | SAE 75W-90 (G50 Synthetic Gear Oil) |
| Wheel Bearings .....          | NLGI Grade 2 Category GC-LB         |

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Drive Shaft U-Joints ..... NLGI Grade 2 Category GC-LB  
Steering Linkage (2)(3) ..... NLGI Grade 2 Category GC-LB  
Ball Joints (2)(4) ..... NLGI Grade 2 Category GC-LB  
Weatherstrip ..... Dielectric Silicone Grease

(1) - SAE 15W-40 or 20W-40 engine oil is recommended for extreme conditions or extended highway operation.

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

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

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

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

## FLUID CAPACITIES

### FLUID CAPACITIES TABLE

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

| Application | Quantity (1) |
|-------------|--------------|
|-------------|--------------|

|                             |            |
|-----------------------------|------------|
| A/C System R-12 Refrigerant | 29-35 Ozs. |
|-----------------------------|------------|

#### Cooling System

|             |                 |
|-------------|-----------------|
| Convertible | 5.1 Qts. (4.8L) |
|-------------|-----------------|

|        |                 |
|--------|-----------------|
| Pickup | 6.9 Qts. (6.5L) |
|--------|-----------------|

|        |                 |
|--------|-----------------|
| Rabbit | 5.2 Qts. (5.0L) |
|--------|-----------------|

|                |                 |
|----------------|-----------------|
| Engine Oil (2) | 4.7 Qts. (4.5L) |
|----------------|-----------------|

#### Fuel Tank

##### Diesel

|        |                  |
|--------|------------------|
| Pickup | 15 Gals. (56.8L) |
|--------|------------------|

|        |                  |
|--------|------------------|
| Rabbit | 11 Gals. (41.5L) |
|--------|------------------|

##### Gasoline

|             |                    |
|-------------|--------------------|
| Convertible | 10.5 Gals. (40.0L) |
|-------------|--------------------|

|        |                  |
|--------|------------------|
| Pickup | 15 Gals. (56.8L) |
|--------|------------------|

|        |                  |
|--------|------------------|
| Rabbit | 10 Gals. (38.0L) |
|--------|------------------|

#### Automatic Transaxle

|              |                 |
|--------------|-----------------|
| Fluid Change | 3.2 Qts. (3.0L) |
|--------------|-----------------|

|          |                 |
|----------|-----------------|
| Dry Fill | 5.9 Qts. (5.6L) |
|----------|-----------------|

#### Final Drive (Differential)

|         |                |
|---------|----------------|
| A/T (3) | 0.8 Qt. (.75L) |
|---------|----------------|

|                      |                 |
|----------------------|-----------------|
| Manual Transaxle (4) | 2.0 Qts. (1.9L) |
|----------------------|-----------------|

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

(2) - Includes filter change.

(3) - Lifetime fill.

(4) - Single case includes manual transaxle & differential.

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END OF ARTICLE