

SCHEDULED SERVICES - GASOLINE

Article Text

1987 Volkswagen Quantum/Quantum Syncro

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Sunday, March 19, 2000 01:47AM

ARTICLE BEGINNING

1983-88 MAINTENANCE

Volkswagen Maintenance & Service Intervals (Gasoline)

Quantum

Quantum Syncro (1986-88)

*** 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. DO NOT use compressed air to blow off brake dust.

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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 inaccurate freeze point calculations.

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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

SCHEDULED SERVICES - GASOLINE

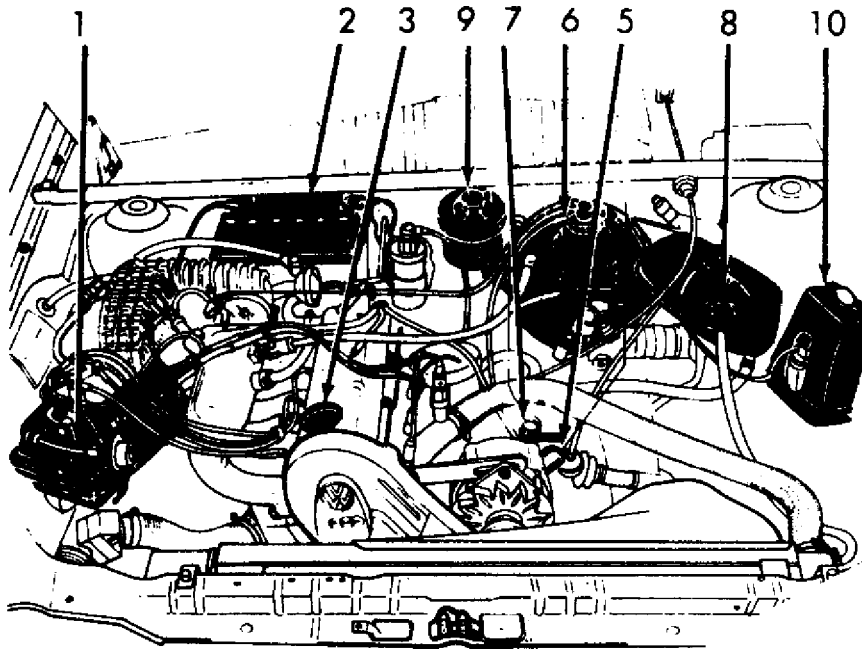
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GASOLINE ENGINE

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

93H45788

Fig. 1: Service Point Locations (Gasoline Engine)

Courtesy of Volkswagen United States, Inc.

ADDITIONAL GASOLINE SERVICE INFORMATION

ALIGNING CAMSHAFT TIMING MARKS - 1.7L 4-CYL.

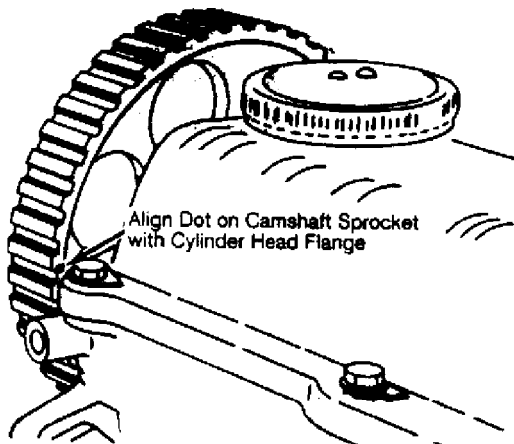


Fig. 2: Camshaft Sprocket Positioning (Gasoline)

Courtesy of Volkswagen United States, Inc.

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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 - 1.7L 4-CYL. GASOLINE

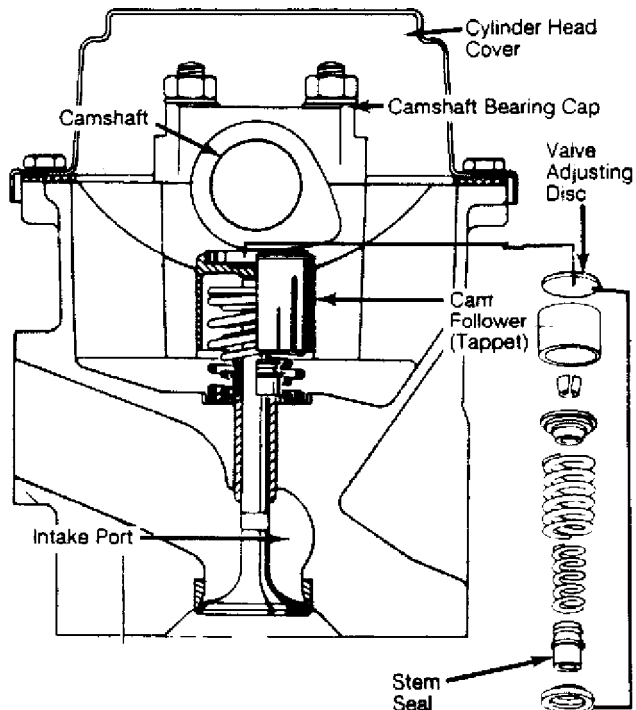


Fig. 3: Assembled View of Valve and Camshaft
Courtesy of Volkswagen United States, Inc.

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

ALIGNING CAMSHAFT TIMING MARKS - 1.8L 4-CYL.

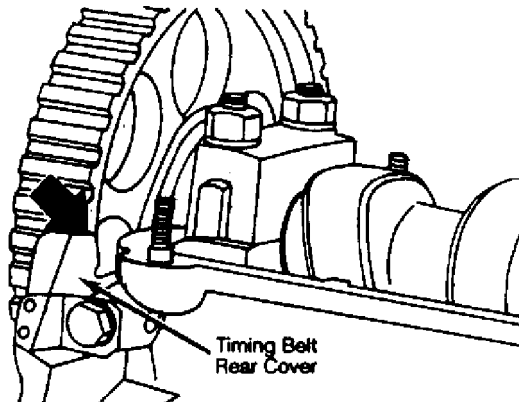


Fig. 4: Setting Camshaft Timing Mark
Courtesy of Volkswagen United States, Inc.

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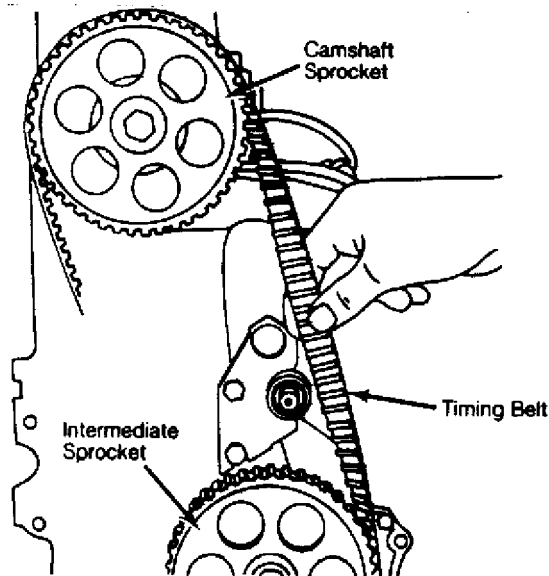


Fig. 5: Adjusting Timing Belt Tension
Courtesy of Volkswagen United States, Inc.

NOTE: For more information regarding camshaft timing belt service refer to the 1.8L 4-CYL article in the ENGINE MECHANICAL section.

ALIGNING CAMSHAFT TIMING MARKS - 5-CYL.

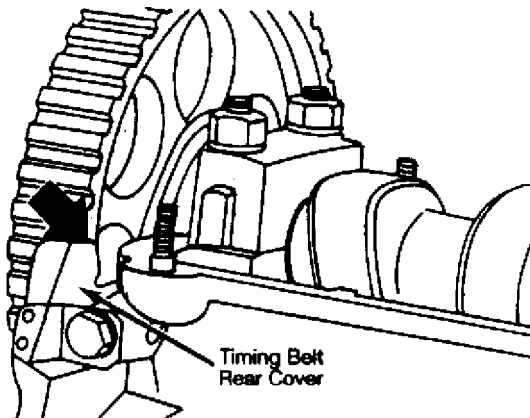


Fig. 6: Camshaft Sprocket Positioning (Gasoline)
Courtesy of Volkswagen United States, Inc.

NOTE: For more information regarding camshaft timing belt service refer to the 2.22L 5-CYL article in the ENGINE MECHANICAL section.

VALVE CLEARANCE ADJUSTMENT - 5-CYL. GASOLINE (1983-85)

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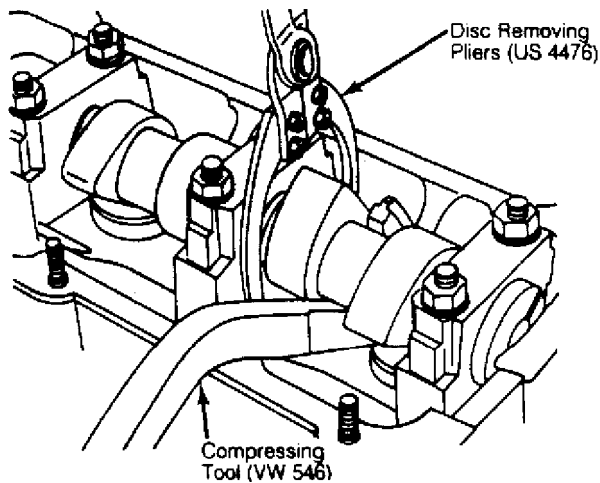


Fig. 7: Compressing Cam Follower to Replace Adjusting Disc
Courtesy of Volkswagen United States, Inc.

NOTE: For more information regarding valve clearance adjustments refer to the 2.22L 5-CYL article in the ENGINE MECHANICAL section.

JACKING & HOISTING POINTS

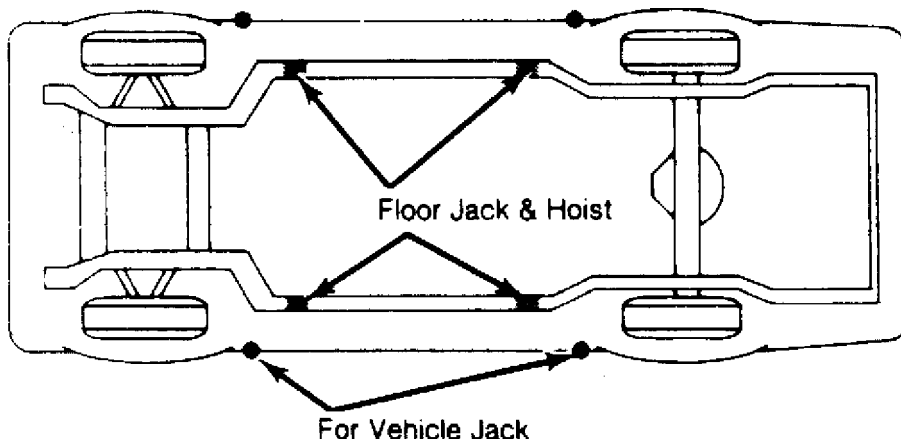


Fig. 8: Floor Jack, Floor Hoist & Vehicle Jack
Courtesy of Volkswagen United States, Inc.

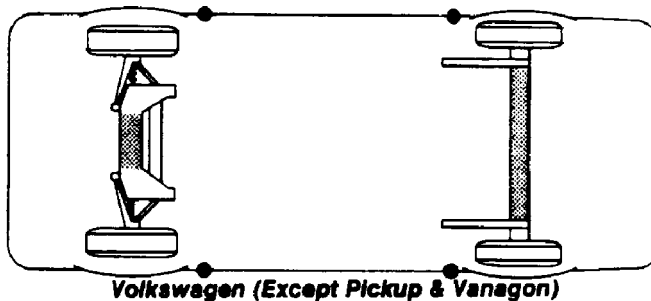


Fig. 9: Vehicle Lifting Points
Courtesy of Volkswagen United States, Inc.

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

INFORMATION LABEL LOCATIONS

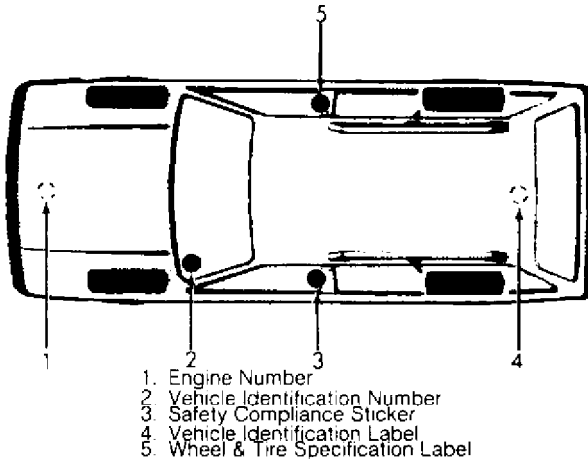


Fig. 10: Information Label Locations
Courtesy of Volkswagen United States, Inc.

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 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.

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

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.

SEVERE SERVICE CONDITIONS/ACTIONS TABLE

Condition	Action	Item	Perform Every (1)
Short Trips In Freezing Temperatures	Replace	Engine Oil & Filter	3,750 Miles or 3 Months
	Replace	A/T Fluid	15,000 Miles
Towing Or Heavily Loaded	Replace	Engine Oil & Filter	3,750 Miles or 3 Months
	Replace	A/T Fluid	15,000 Miles
Severe Dust Conditions	Replace	Engine Oil & Filter	3,750 Miles or 3 Months
	Replace	A/T Fluid	15,000 Miles
Hot Weather, Stop-And-Go Driving	Replace	Engine Oil & Filter	3,750 Miles or 3 Months

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3          3 Replace 3 A/T Fluid 3          15,000 Miles 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Extensive Idling 3 Replace 3 Engine Oil & 3 3,750 Miles or 3 Months 3
3          3          3 Filter 3          3          3
3          AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3          3 Replace 3 A/T Fluid 3          15,000 Miles 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3
3(1) - Perform these services at the mileage or number of months 3
3 (since the last time), whichever comes first. 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

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

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7500 MILE (12,000 KM) SERVICE
UAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Service Or Inspect 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Fluid Levels 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Coolant Hoses and Clamps 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Brake System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Exhaust System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect CV Joint Boots 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Chassis 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Replace 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Engine Oil 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Oil Filter 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Lubrication Specifications 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Application Specification 3
3
3 Engine Oil 3
3 Ambient Temperatures 3
3 Greater Than 50°F (10°C) ..... SAE 20W-50 API SG/CD 3
3 14°F To 50°F (-10°C To +10°C) ..... SAE 10W-40 API SG/CD 3
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3      Less Than 140°F (-10°C) ..... SAE 5W-30 API SG/CD 3
3 Final Drive & Front 3
3      Differential (AWD) ..... Hypoid Gear Oil SAE 75W-90 API/GL-5 3
3 Manual Transmission ..... Hypoid Gear Oil SAE 75W-90 API/GL-4 3
3 ~~~~~
3      Fluid Capacities 3
3 ~~~~~
3 Application (1) Quantity 3
3 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 Cooling System 3
3 1983-85 3
3      4-Cylinder ..... 5.5-6.5 qts. (5.2-6.0L) 3
3      5-Cylinder ..... 5.0-8.4 qts. (4.7-8.0L) 3
3 1986-88 ..... 8.5 qts. (8.0L) 3
3 Engine Oil (2) 3
3 1983-85 3
3      4-Cylinder 3
3          With Oil Filter ..... 3.5 qts. (3.0L) 3
3          Without Oil Filter ..... 3.0 qts. (2.5L) 3
3      5-Cylinder 3
3          With Oil Filter ..... 4.0 qts. (3.5L) 3
3          Without Oil Filter ..... 3.5 qts. (3.0L) 3
3 1986-88 3
3      With Oil Filter ..... 3.7 qts. (3.5L) 3
3      Without Oil Filter ..... 3.2 qts. (3.0L) 3
3 Manual Transaxle (4) 3
3      4-Cyl. (013) ..... 2.1 Qts. (2.0L) 3
3      5-Cyl. (093) ..... 2.5 Qts. (2.35L) 3
3      Syncro (016) ..... 2.1 Qts. (2.0L) 3
3 Rear Axle (Syncro) ..... 0.8 Qt. (.75L) 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 ~~~~~
```

15,000 MILE (24,000 KM) SERVICE

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15,000 MILE (24,000 KM) SERVICE
3 ~~~~~
3      Service Or Inspect 3
3 ~~~~~
3      Verify Last Major Service Was Performed 3
3 ~~~~~
3      Diagnostic System Read Out 3
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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect For Fluid Leaks 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check/Adjust Valve Clearance 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check/Adjust Idle Speed 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Perform Compression Test 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Crankcase Ventilation System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Fuel Evaporation System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check EGR System (Reset Mileage Counter - If Applicable) 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Fluid Levels 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Coolant Hoses and Clamps 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Cooling & Heating System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Coolant Strength 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect/Adjust Accessory Drive Belts (Replace if Required) 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Windshield Washer System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Clean Battery and Battery Terminals 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Throttle Linkage 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Fuel/Tank/Cap/Lines 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Intake Air System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Clutch Hydraulic System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect CV Joint Boots 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Drive Shafts For Leaks & Damage 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Operation of Horn, Wipers/Washers & All Exterior Lights 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Condition of Wiper Blades 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Headlight Alignment 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Seat Belt Webbing and Release Mechanisms 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Parking Brake Operation 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Shift/Clutch Interlock Operation 3

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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	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

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Greater Than 140°F (-10°C) .. SAE 15W-40 Or 20W-50 API SG/CD
140-500°F (-10°C To +10°C) SAE 10W-30 Or 10W-40 API SG/CD
Less Than 500°F (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
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	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)(4) Hours
4-Cylinder	
Automatic Transmission	1.5
Manual Transmission	1.7
5-Cylinder	
Automatic Transmission	1.5
Manual Transmission	1.7

- (1) - When replacing camshaft timing belt, add 1.6 hrs. for 4-cylinder and 2.1 hrs. for 5-cylinder gasoline engines.
(2) - Add .2 hr. if equipped with A/C.

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3  Service Or Inspect 3
3 3 Verify Last Major Service Was Performed 3
3 3 Check Fluid Levels 3
3 3 Inspect Camshaft Timing Belt (Replace if Required) 3
3 3 Inspect Coolant Hoses and Clamps 3
3 3 Inspect Brake System 3
3 3 Inspect Exhaust System 3
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 Specification 3
3 Engine Oil 3
3 Ambient Temperatures 3
3 Greater Than 140 F (-10C) .. SAE 15W-40 Or 20W-50 API SG/CD 3
3 140-50F (-10 To +10C) .... SAE 10W-30 Or 10W-40 API SG/CD 3
3 Less Than 50F (10C) ..... 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

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30,000 MILE (48,000 KM) SERVICE

30,000 MILE (48,000 KM) SERVICE

3 Service Or Inspect 3
3 3 Verify Last Major Service Was Performed 3
3 3 Diagnostic System Read Out 3
3 3 Inspect For Fluid Leaks 3
3 3 Check/Adjust Valve Clearance 3
3 3 Check/Adjust Idle Speed 3
3 3 Perform Compression Test 3
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 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

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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	Air Filter Element	3
3	3	Spark Plugs	3

SCHEDULED SERVICES - GASOLINE

Article Text (p. 18)

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Sunday, March 19, 2000 01:47AM

Oxygen Sensor (Reset Mileage Counter - If Applicable)		
Fuel Filter		
Change Automatic Transaxle Fluid & Clean Strainer		
Drain, Flush and Refill Engine Coolant		
Drain, Refill and Bleed Brake System Fluid		
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 (-10°C)	SAE 15W-40 Or 20W-50 API SG/CD	
140-500°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	
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	
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	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)	

Article Text (p. 19)

For Volkswagen Technical Site

Sunday, March 19, 2000 01:47AM

37,500 MILE (60,000 KM) SERVICE

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37,500 MILE (60,000 KM) SERVICE
U
3      Service Or Inspect      3
3      3      Verify Last Major Service Was Performed      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
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      Specification      3

```

SCHEDULED SERVICES - GASOLINE

Article Text (p. 20)

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Sunday, March 19, 2000 01:48AM

```
3
3 Engine Oil 3
3 Ambient Temperatures 3
3 Greater Than 140 F (-10C) .. SAE 15W-40 Or 20W-50 API SG/CD 3
3 140-500F (-10 To +10C) .... SAE 10W-30 Or 10W-40 API SG/CD 3
3 Less Than 500F (10C) ..... 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
3
```

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 Diagnostic System Read Out 3
3 Inspect For Fluid Leaks 3
3 Check/Adjust Valve Clearance 3
3 Inspect Camshaft Timing Belt (Replace if Required) 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
```

Article Text (p. 21)

For Volkswagen Technical Site

Sunday, March 19, 2000 01:48AM

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	3
3	Lubricate Chassis	3
3	Inspect Steering Linkage/Front Suspension	3
3	Suspension & Wheel Bearings	3
3	Steering Operation, Tie Rods, Gear Box & Boots	3
3	Lubricate Weatherstripping with Silicone	3
3	Lubricate Door Hinges	3

SCHEDULED SERVICES - GASOLINE

Article Text (p. 22)

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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	Spark Plugs (Except California Models)	3
3	3	Fuel Filter	3
3	3	Lubrication Specifications	3
3	3	Application	Specification 3
3	3	Automatic Transaxle	Dexron-II E ATF 3
3	3	Brake Fluid	DOT 4 Brake Fluid (SAE J1703) 3
3	3	Coolant	50/50 Mix Water & Ethylene Glycol 3
3	3	Engine Oil (1)	3
3	3	Ambient Temperatures	3
3	3	Greater Than 140°F (-10°C)	.. SAE 15W-40 Or 20W-50 API SG/CD 3
3	3	140-500°F (-10°C To +10°C) SAE 10W-30 Or 10W-40 API SG/CD 3
3	3	Less Than 500°F (10°C) SAE 5W-30 Or 5W-40 API SG/CD 3
3	3	Power Steering Fluid	VW Hydraulic Oil G-002-000 3
3	3	Manual Transaxle	Hypoid Gear Oil SAE 75W-90 API GL-4 3
3	3		Or SAE 75W-90 (G50 Synthetic) 3
3	3	Final Drive (A/T & M/T)	3
3	3	(Differential)	SAE 75W-90 (G50 Synthetic Gear Oil) 3
3	3	Wheel Bearings	NLGI Grade 2 Category GC-LB 3
3	3	Steering Linkage (2)(3)	NLGI Grade 2 Category GC-LB 3
3	3	Ball Joints (2)(4)	NLGI Grade 2 Category GC-LB 3
3	3	Weatherstrip	Dielectric Silicone Grease 3
3	3		3
3	3	(1) - SAE 15W-40 or 20W-40 engine oil is recommended for extreme	3
3	3	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

Article Text (p. 23)

For Volkswagen Technical Site

Sunday, March 19, 2000 01:48AM

[illegible][illegible]

Article Text (p. 24)

For Volkswagen Technical Site

Sunday, March 19, 2000 01:48AM

60,000 MILE (96,000 KM) SERVICE

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60,000 MILE (96,000 KM) SERVICE
0
3 Service Or Inspect 3
3 3 Verify Last Major Service Was Performed 3
3 3 Diagnostic System Read Out 3
3 3 Inspect For Fluid Leaks 3
3 3 Check/Adjust Valve Clearance 3
3 3 Check/Adjust Idle Speed 3
3 3 Perform Compression Test 3
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

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SCHEDULED SERVICES - GASOLINE

Article Text (p. 25)

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Fluid Levels 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Coolant Hoses and Clamps 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Cooling & Heating System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Crankcase Ventilation System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Coolant Strength 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect/Adjust Accessory Drive Belts (Replace if Required) 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Windshield Washer System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Clean Battery and Battery Terminals 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Throttle Linkage 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Fuel System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Intake Air System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Clutch Hydraulic System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect CV Joint Boots 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Drive Shafts For Leaks & Damage 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Operation of Horn, Wipers/Washers & All Exterior Lights 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Condition of Wiper Blades 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Headlight Alignment 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Seat Belt Webbing and Release Mechanisms 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Parking Brake Operation 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Shift/Clutch Interlock Operation 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Brake System Hoses & Lines 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Brake Discs & Calipers 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Front Brake Pads & Rotors 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Rear Brake Linings & Drums 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Chassis 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Steering Linkage/Front Suspension 3

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SCHEDULED SERVICES - GASOLINE

Article Text (p. 26)

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~~~~~		
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 Spark Plugs	3
~~~~~		
3	3 Oxygen Sensor (Reset Mileage Counter - If Applicable)	3
~~~~~		
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	Lubrication Specifications	3
~~~~~		
3	Application	Specification 3
3		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

## SCHEDULED SERVICES - GASOLINE

### Article Text (p. 27)

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Greater Than 140°F (-10°C) .. SAE 15W-40 Or 20W-50 API SG/CD  
140-500°F (-10°C To +10°C) .... SAE 10W-30 Or 10W-40 API SG/CD  
Less Than 500°F (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  
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	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)(4) Hours
4-Cylinder	
Automatic Transmission	3.6
Manual Transmission	3.0
5-Cylinder	
Automatic Transmission	3.6 (4)
Manual Transmission	3.0 (4)

- (1) - When replacing camshaft timing belt, add 1.6 hrs. for 4-cylinder and 2.1 hrs. for 5-cylinder gasoline engines.
- (2) - Add .2 hr. if equipped with A/C.

```

3  Service Or Inspect 3
3 3 Verify Last Major Service Was Performed 3
3 3 Check Fluid Levels 3
3 3 Inspect Camshaft Timing Belt (Replace if Required) 3
3 3 Inspect Coolant Hoses and Clamps 3
3 3 Inspect Brake System 3
3 3 Inspect Exhaust System 3
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 Specification 3
3 Engine Oil 3
3 Ambient Temperatures 3
3 Greater Than 140 F (-10C) .. SAE 15W-40 Or 20W-50 API SG/CD 3
3 140-50F (-10 To +10C) .... SAE 10W-30 Or 10W-40 API SG/CD 3
3 Less Than 50F (10C) ..... 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

```

## SCHEDULED SERVICES - GASOLINE

### Article Text (p. 29)

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

75,000 MILE (120,000 KM) SERVICE

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

## SCHEDULED SERVICES - GASOLINE

### Article Text (p. 30)

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Operation of Horn, Wipers/Washers & All Exterior Lights 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Condition of Wiper Blades 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Headlight Alignment 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Seat Belt Webbing and Release Mechanisms 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Parking Brake Operation 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Shift/Clutch Interlock Operation 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Brake System Hoses & Lines 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Brake Discs & Calipers 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Front Brake Pads & Rotors 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Rear Brake Linings & Drums 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Chassis 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Steering Linkage/Front Suspension 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Suspension & Wheel Bearings 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Steering Operation, Tie Rods, Gear Box & Boots 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Weatherstripping with Silicone 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Door Hinges 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Door Locks 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Body Drain Holes 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Shocks/Struts for Leakage 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Tire Wear Pattern 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Rotate Tires and Adjust Air Pressure (Including Spare) 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Replace 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Engine Oil 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Oil Filter 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Clean Air Filter Element (Replace if Required) 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Spark Plugs (Except California Models) 3

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## SCHEDULED SERVICES - GASOLINE

### Article Text (p. 31)

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~ ~ ~ ~ ~

3 3 Fuel Filter 3

~ ~ ~ ~ ~

3 Lubrication Specifications 3

~ ~ ~ ~ ~

3 Application Specification 3

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 (-10°C) .. SAE 15W-40 Or 20W-50 API SG/CD 3

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

3 Less Than 500°F (10°C) ..... 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 (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 Fluid Capacities 3

~ ~ ~ ~ ~

3 Application (1) Quantity 3

3

3 Cooling System ..... 5.2 Qts. (5.0L) 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 (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

~ ~ ~ ~ ~

## SCHEDULED SERVICES - GASOLINE

### Article Text (p. 32)

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Application	(1)(2)(3) Hours
4-Cylinder	
Automatic Transmission	1.5
Manual Transmission	1.7
5-Cylinder	
Automatic Transmission	1.5
Manual Transmission	1.7
(1) - When replacing camshaft timing belt, add 1.6 hrs. for 4-cylinder and 2.1 hrs. for 5-cylinder gasoline engines.	
(2) - Add .2 hr. if equipped with A/C.	
(3) - 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	
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
140-500°F (-10°C 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	



## SCHEDULED SERVICES - GASOLINE

### Article Text (p. 33)

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```

~ ~ ~ ~ ~
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
~ ~ ~ ~ ~

```

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

```

90,000 MILE (144,000 KM) SERVICE
~ ~ ~ ~ ~
3 Service Or Inspect 3
~ ~ ~ ~ ~
3 3 Verify Last Major Service Was Performed 3
~ ~ ~ ~ ~
3 3 Diagnostic System Read Out 3
~ ~ ~ ~ ~
3 3 Inspect For Fluid Leaks 3
~ ~ ~ ~ ~
3 3 Check/Adjust Valve Clearance 3
~ ~ ~ ~ ~
3 3 Inspect Camshaft Timing Belt (Replace if Required) 3
~ ~ ~ ~ ~
3 3 Check/Adjust Idle Speed 3
~ ~ ~ ~ ~
3 3 Perform Compression Test 3
~ ~ ~ ~ ~
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 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
~ ~ ~ ~ ~

```

## SCHEDULED SERVICES - GASOLINE

### Article Text (p. 34)

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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
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

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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	Spark Plugs	3
3	3	Oxygen Sensor (Reset Mileage Counter - If Applicable)	3
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		Lubrication Specifications	3
3	Application	Specification	3
3			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 (-10°C)	SAE 15W-40 Or 20W-50 API SG/CD	3
3	140-500°F (-10°C 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	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

## SCHEDULED SERVICES - GASOLINE

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3	(4) - Fill ball joint until seal starts to swell.	3
3	Fluid Capacities	3
3	Application	(1) Quantity 3
3	Cooling System	5.2 Qts. (5.0L) 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	(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	4-Cylinder	3
3	Automatic Transmission	3.2 3
3	Manual Transmission	2.6 3
3	5-Cylinder	3
3	Automatic Transmission	3.2 3
3	Manual Transmission	2.6 3
3	(1) - When replacing camshaft timing belt, add 1.6 hrs. for	3
3	4-cylinder and 2.1 hrs. for 5-cylinder gasoline engines.	3
3	(2) - Add .2 hr. if equipped with A/C.	3
3	(3) - Add .1 hr. if equipped with cruise control.	3

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

97,500 MILE (156,000 KM) SERVICE
Service Or Inspect
3 Verify Last Major Service Was Performed
3 Check Fluid Levels
3 Inspect Coolant Hoses and Clamps
3 Inspect Brake System

## SCHEDULED SERVICES - GASOLINE

### Article Text (p. 37)

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```
3 3 Inspect Exhaust System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect CV Joint Boots 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Chassis 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Replace 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Engine Oil 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Oil Filter 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Lubrication Specifications 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Application Specification 3
3 3
3 Engine Oil 3
3 Ambient Temperatures 3
3 Greater Than 140 F (-10C) .. 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
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Fluid Capacities 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

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

```
105,000 MILE (168,000 KM) SERVICE
UAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Service Or Inspect 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Verify Last Major Service Was Performed 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Diagnostic System Read Out 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect For Fluid Leaks 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check/Adjust Valve Clearance 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check/Adjust Idle Speed 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Perform Compression Test 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Crankcase Ventilation System 3
```

## SCHEDULED SERVICES - GASOLINE

### Article Text (p. 38)

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Fuel Evaporation System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check EGR System (Reset Mileage Counter - If Applicable) 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Fluid Levels 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Coolant Hoses and Clamps 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Cooling & Heating System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Crankcase Ventilation System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Coolant Strength 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect/Adjust Accessory Drive Belts (Replace if Required) 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Windshield Washer System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Clean Battery and Battery Terminals 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Throttle Linkage 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Fuel System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Intake Air System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Clutch Hydraulic System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect CV Joint Boots 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Drive Shafts For Leaks & Damage 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Operation of Horn, Wipers/Washers & All Exterior Lights 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Condition of Wiper Blades 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Headlight Alignment 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Seat Belt Webbing and Release Mechanisms 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Parking Brake Operation 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Shift/Clutch Interlock Operation 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Brake System Hoses & Lines 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Brake Discs & Calipers 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Front Brake Pads & Rotors 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Rear Brake Linings & Drums 3

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## SCHEDULED SERVICES - GASOLINE

### Article Text (p. 39)

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Chassis 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Steering Linkage/Front Suspension 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Suspension & Wheel Bearings 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Steering Operation, Tie Rods, Gear Box & Boots 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Weatherstripping with Silicone 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Door Hinges 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Door Locks 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Body Drain Holes 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Shocks/Struts for Leakage 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Tire Wear Pattern 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Rotate Tires and Adjust Air Pressure (Including Spare) 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Replace 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Engine Oil 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Oil Filter 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Clean Air Filter Element (Replace if Required) 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Spark Plugs (Except California Models) 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Fuel Filter 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Lubrication Specifications 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Application Specification 3
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 (-10C) .. SAE 15W-40 Or 20W-50 API SG/CD 3
3 140-500F (-10 To +10C) .... SAE 10W-30 Or 10W-40 API SG/CD 3
3 Less Than 500F (10C) ..... 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

```

## Article Text (p. 40)

For Volkswagen Technical Site

Sunday, March 19, 2000 01:48AM

[illegible][illegible]3 3

- [illegible]

[illegible]3 3

- [illegible]

## 112,500 MILE (180,000 KM) SERVICE

3 Service Or Inspect 3



Sunday, March 19, 2000 01:48AM

[illegible]

## Article Text (p. 42)

For Volkswagen Technical Site

Sunday, March 19, 2000 01:48AM

```

3 Diagnostic System Read Out 3
3 3 Inspect For Fluid Leaks 3
3 3 Check/Adjust Valve Clearance 3
3 3 Check/Adjust Idle Speed 3
3 3 Perform Compression Test 3
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 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 Suspension & Wheel Bearings 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

```

## SCHEDULED SERVICES - GASOLINE

### Article Text (p. 43)

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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	Spark Plugs	3
3	3	Oxygen Sensor (Reset Mileage Counter - If Applicable)	3
3	3	Air Filter Element	3
3	3	Fuel Filter	3
3	3	Change Automatic Transaxle Fluid & Clean Strainer	3

## SCHEDULED SERVICES - GASOLINE

### Article Text (p. 44)

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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	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 (-10°C)	SAE 15W-40 Or 20W-50 API SG/CD	3
3	140-500°F (-10°C To +10°C)	SAE 10W-30 Or 10W-40 API SG/CD	3
3	Less Than 500°F (10°C)	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
3	(4) - Fill ball joint until seal starts to swell.		3
3	Fluid Capacities		3
3	Application	(1) Quantity	3
3	Cooling System	5.2 Qts. (5.0L)	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	(1) - Capacities are recommended or calculated levels. Always use		3
3	dipstick (if available) to measure level.		3
3	(2) - Includes filter change.		3

## Article Text (p. 45)

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Sunday, March 19, 2000 01:48AM

## LUBRICATION SPECIFICATIONS

## LUBRICATION SPECIFICATIONS TABLE

Application		Fluid Specifications	
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

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 (-10°C)	..	SAE 15W-40 Or 20W-50	API SG/CD
140-500°F (-10°C 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
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
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.

## SCHEDULED SERVICES - GASOLINE

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## FLUID CAPACITIES

### FLUID CAPACITIES TABLE

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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

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

Cooling System

Diesel .....	6.9 Qts. (6.5L)
--------------	-----------------

Gasoline .....	5.2 Qts. (5.0L)
----------------	-----------------

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

Fuel Tank

Diesel

Jetta .....	10.5 Gals. (40.0L)
-------------	--------------------

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

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

Gasoline

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

Jetta .....	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.

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

END OF ARTICLE