

SCHEDULED SERVICES - GASOLINE (WATER-COOLED)

Article Text

1991 Volkswagen Vanagon
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Saturday, March 18, 2000 09:42PM

ARTICLE BEGINNING

1983-91 MAINTENANCE

Volkswagen Maintenance & Service Intervals
Gasoline (Water-Cooled)

Van,
Vanagon
Syncro (1986-91)

* 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

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

CAUTION: Extreme brake pedal pressure is required if the engine is not running.

SERVICE POINT LOCATIONS

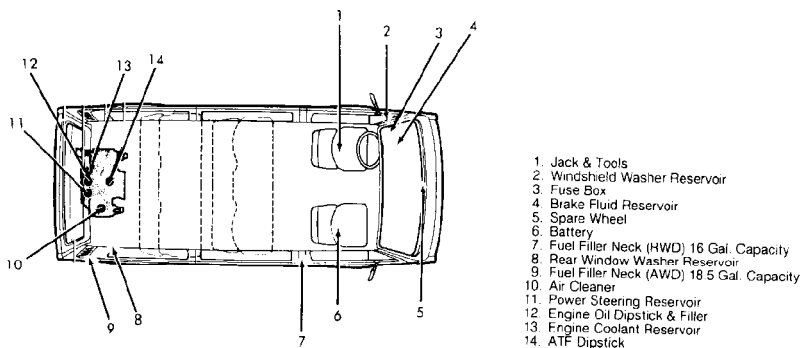


Fig. 1: Service Point Locations
Courtesy of Volkswagen United States, Inc.

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COOLING SYSTEM SERVICE INFORMATION

REFILLING COOLING SYSTEM - GASOLINE (WATER-COOLED)

- 1) Set heater controls to maximum heating position.
- 2) Open control valve for auxiliary heater under rear seat.
- 3) Remove radiator grille.
- 4) Raise vehicle approx. 15 3/4" (40cm) at front under the cross-member with floor jack and wooden support.
- 5) Open breather valve on radiator. (See Fig. 2).
- 6) Open breather valve in engine compartment. (See Fig. 2).
- 7) Fill cooling system via expansion tank until tank is filled to the brim and remains full.
- 8) Run engine @2000 rpm, top up tank until coolant flows at radiator breather valve with NO air bubbles.
- 9) Add coolant until tank is full and close tank with cap.
- 10) Turn off ignition & restart engine after about 20 seconds.
- 11) At about 2000 rpm open cap of expansion tank.
- 12) Close radiator breather valve when coolant flows out. (See Fig. 2).
- 13) Add coolant until tank is full and close tank with cap.
- 14) Close breather valve in engine compartment. (See Fig. 2).
- 15) Turn off engine.
- 16) Check coolant level in expansion tank and top up.
- 17) Close expansion tank with cap.

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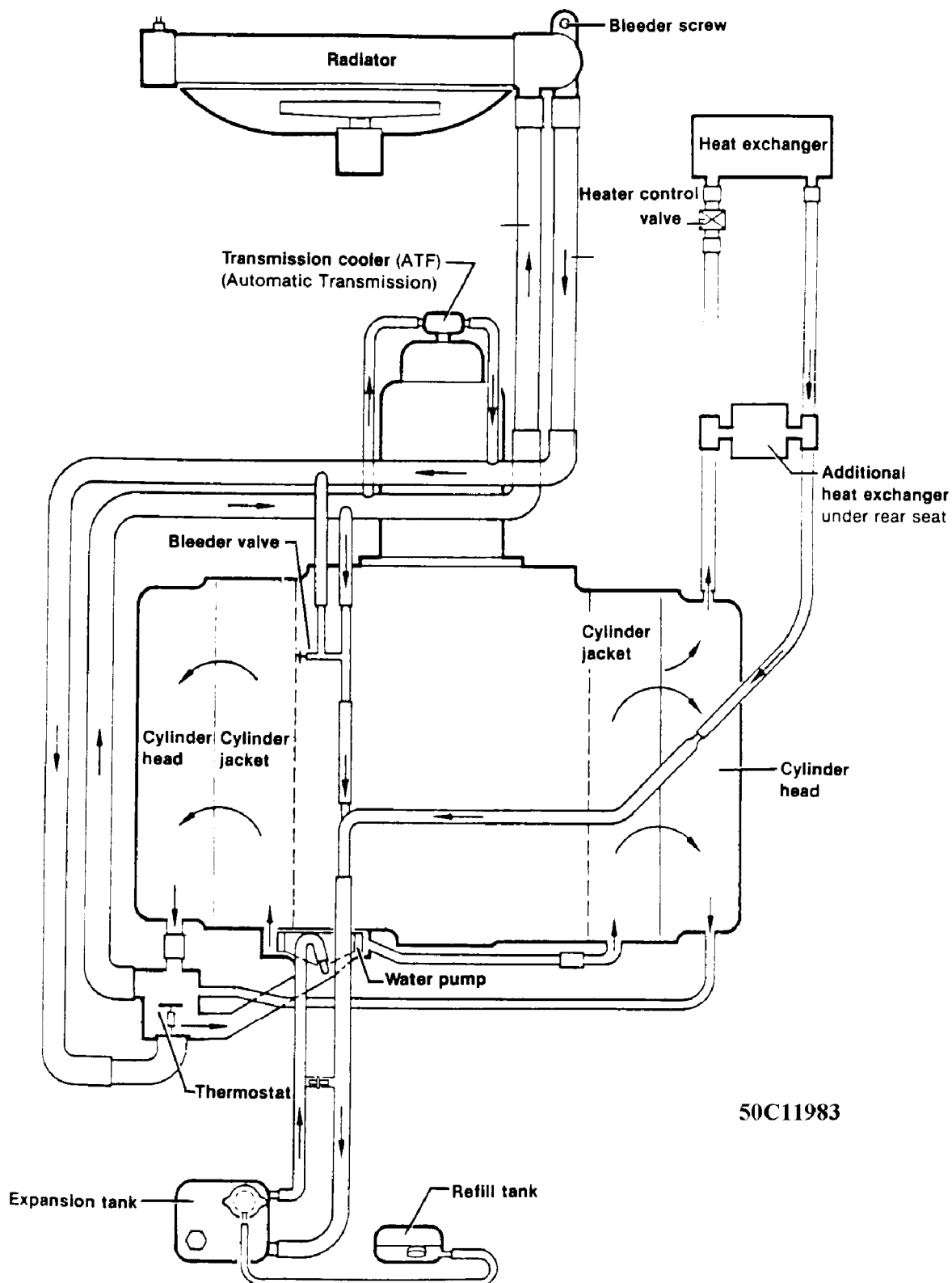
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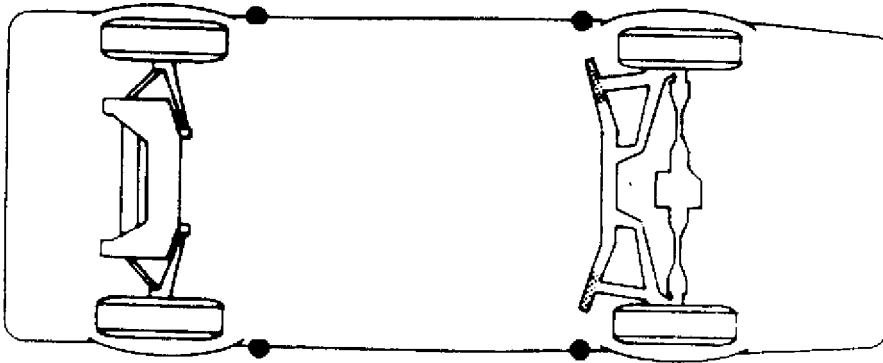
Fig. 2: Cooling System (Gasoline Shown)
Courtesy of Volkswagen United States, Inc.

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VEHICLE LIFT POINTS

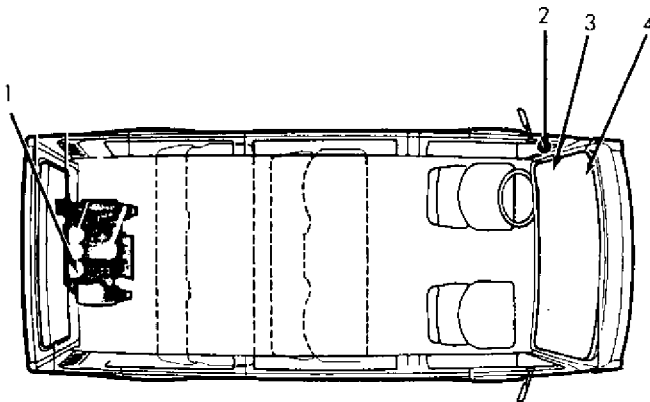


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Fig. 3: Vehicle Lift Points (Typical)
Courtesy of Volkswagen United States, Inc.

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

INFORMATION LABEL LOCATIONS



1. Engine Number
2. Safety Compliance Sticker
3. Vehicle Identification Label
4. Vehicle Identification Number

Fig. 4: Information Label Locations
Courtesy of Volkswagen United States, Inc.

SEVERE & NORMAL SERVICE DEFINITIONS

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

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

Normal Service

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

Severe Service (Unique Driving Conditions)

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

SEVERE SERVICE REQUIREMENTS (PERFORM W/SERVICE SCHEDULES)

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

SEVERE SERVICE CONDITIONS/ACTIONS TABLE

Condition	Action	Item	Perform Every (1)
Short Trips (10 Miles) In Freezing Temperatures	Replace	Engine Oil & Filter	3,750 Miles or 3 Months
	Replace	A/T Fluid	30,000 Miles
	Service	A/T: Clean Pan & Strainer	30,000 Miles
Towing Or Heavily Loaded	Replace	Engine Oil & Filter	3,750 Miles or 3 Months
	Replace	A/T Fluid	30,000 Miles
	Service	A/T: Clean Pan & Strainer	30,000 Miles
Severe Dust Conditions	Replace	Engine Oil & Filter	3,750 Miles or 3 Months
	Replace	A/T Fluid	30,000 Miles
	Service	A/T: Clean Pan & Strainer	30,000 Miles
Hot Weather, Stop-And-Go	Replace	Engine Oil & Filter	3,750 Miles or 3 Months

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```
3      Driving      ~~~~~
3      3 Replace 3   A/T Fluid 3   30,000 Miles 3
3      ~~~~~
3      3 Service 3   A/T: Clean 3   30,000 Miles 3
3      3          3   Pan & 3
3      3          3   Strainer 3
3      ~~~~~
3      Extensive Idling 3 Replace 3 Engine Oil & 3 3,750 Miles or 3 Months 3
3      Conditions (Taxi 3          3   Filter 3
3      or Delivery) ~~~~~
3      3 Replace 3   A/T Fluid 3   30,000 Miles 3
3      ~~~~~
3      3 Service 3   A/T: Clean 3   30,000 Miles 3
3      3          3   Pan & 3
3      3          3   Strainer 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 (GASOLINE)

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

```
U~~~~~
3      Service Or Inspect 3
3      ~~~~~
3      3 Check Fluid Levels 3
3      ~~~~~
3      3 Inspect Coolant Hoses and Clamps 3
3      ~~~~~
3      3 Inspect Brake System 3
3      ~~~~~
3      3 Inspect Exhaust System 3
3      ~~~~~
3      3 Inspect C/V Joint boots 3
3      ~~~~~
3      3 Inspect Steering Linkage/Front Suspension 3
3      ~~~~~
3      3 Lubricate Chassis 3
3      ~~~~~
3      Replace 3
3      ~~~~~
3      3 Engine Oil 3
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3	3	Check EGR System and Reset Mileage Indicator	3
3	3	Intake Air System	3
3	3	Throttle Linkage	3
3	3	Inspect Brake System	3
3	3	Check Exhaust System & Heat Shielding	3
3	3	Clean Battery and Battery Terminals	3
3	3	Inspect Fuel/Tank/Cap/Lines	3
3	3	Check Operation of Horn, Wipers/Washers & All Exterior Lights	3
3	3	Inspect Condition of Wiper Blades	3
3	3	Check Headlight Alignment	3
3	3	Lubricate Weatherstripping with Silicone	3
3	3	Lubricate Sliding Door Mounting Points	3
3	3	Door/Hood/Trunk Stops, Hinges & Locks	3
3	3	Check Body Drain Holes	3
3	3	Check Seat Belt Webbing and Release Mechanisms	3
3	3	Windshield Washer System	3
3	3	Parking Brake Adjustment	3
3	3	Clutch Adjustment	3
3	3	Clutch Hydraulic System	3
3	3	Suspension & Wheel Bearings	3
3	3	Check Shift Interlock Operation	3
3	3	Inspect Steering Linkage/Front Suspension	3
3	3	Lubricate Chassis	3
3	3	Inspect Brake Pads, Rotors and Calipers	3
3	3	Inspect Brake System Hoses & Lines	3
3	3	Inspect Shocks/Struts for Leakage	3

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3	3	Inspect Tire Wear and Condition	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	Lubrication Specifications	3
3	3	Application	3
3	3	Automatic Transmission	3
3	3	Brake Fluid	3
3	3	Engine Oil	3
3	3	Ambient Temperatures	3
3	3	Greater Than 50°F (10°C)	3
3	3	14°F (-10°C To +10°C)	3
3	3	Less Than 14°F (-10°C)	3
3	3	Final Drive (Front	3
3	3	Differential AWD)	3
3	3	Manual Transmission	3
3	3	Power Steering Fluid	3
3	3	Fluid Capacities	3
3	3	Application	3
3	3	Automatic Transmission Fluid	3
3	3	Gearbox	3
3	3	Differential	3
3	3	Cooling System	3
3	3	Engine Oil (2)	3
3	3	Front Final Drive (Synchro)	3
3	3	Manual Transmission Fluid	3
3	3	2WD	3
3	3	4WD	3
3	3	4 Speed	3
3	3	5 Speed	3
3	3	(1) - Capacities are recommended or calculated levels. Always use	3
3	3	dipstick (if available) to measure level.	3
3	3	(2) - Includes filter change.	3
3	3	Service Labor Times	3
3	3	Application	3
3	3	Gasoline Engine	3
3	3	Automatic Transmission	3

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[illegible]

22,500 MILE (36,000 KM) SERVICE

22,500 MILE (36,000 KM) SERVICE

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 C/V Joint boots	3
3	3 Inspect Steering Linkage/Front Suspension	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 50°F (10°C)	SAE 20W-50 API/SF/CC Or SF/CD 3
3	14°F -50°F (-10°C To +10°C)	SAE 10W-40 API/SF/CC Or SF/CD 3
3	Less Than 14°F (-10°C)	SAE 5W-30 API/SF/CC Or SF/CD 3
3	Fluid Capacities	3
3	Application	(1) Quantity 3
3	Engine Oil (2)	4.8 Qts. (4.5L) 3
3	(1) - Capacities are recommended or calculated levels. Always use	3

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30,000 MILE (48,000 KM) SERVICE

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30,000 MILE (48,000 KM) SERVICE
U
3 Service Or Inspect 3
3 3 Verify Last Major Service Was Performed 3
3 3 Diagnostic System Read Out 3
3 3 Check Fluid Levels 3
3 3 Check Cooling System Hoses and Clamps 3
3 3 Check Coolant Strength 3
3 3 Inspect For Fluid Leaks 3
3 3 Inspect/Adjust Accessory Drive Belts (Replace if Required) 3
3 3 A/C Cooling & Heating System 3
3 3 Inspect Distributor Cap & Rotor (Replace if Required) 3
3 3 Inspect Ignition Wires (Replace if Required) 3
3 3 Crankcase Ventilation System 3
3 3 Check EGR System and Reset Mileage Indicator 3
3 3 Intake Air System 3
3 3 Throttle Linkage 3
3 3 Inspect Brake System 3
3 3 Check Exhaust System & Heat Shielding 3
3 3 Clean Battery and Battery Terminals 3
3 3 Inspect Fuel/Tank/Cap/Lines 3
3 3 Check Operation of Horn, Wipers/Washers & All Exterior Lights 3
3 3 Inspect Condition of Wiper Blades 3
3 3 Check Headlight Alignment 3

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3	3	Lubricate Weatherstripping with Silicone	3
3	3	Lubricate Sliding Door Mounting Points	3
3	3	Door/Hood/Trunk Stops, Hinges & Locks	3
3	3	Check Body Drain Holes	3
3	3	Check Seat Belt Webbing and Release Mechanisms	3
3	3	Windshield Washer System	3
3	3	Parking Brake Adjustment	3
3	3	Clutch Adjustment	3
3	3	Clutch Hydraulic System	3
3	3	Suspension & Wheel Bearings	3
3	3	Check Shift Interlock Operation	3
3	3	Inspect Steering Linkage/Front Suspension	3
3	3	Lubricate Chassis	3
3	3	Inspect Brake Pads, Rotors and Calipers	3
3	3	Inspect Brake System Hoses & Lines	3
3	3	Inspect Shocks/Struts for Leakage	3
3	3	Inspect Tire Wear and Condition	3
3	3	Rotate Tires and Adjust Air Pressure (Including Spare)	3
3		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	Valve Cover Gaskets	3
3	3	Replace Automatic Transmission Fluid and Clean ATF Strainer	3
3	3	Drain, Refill and Bleed Brake System Fluid	3

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37,500 MILE (60,000 KM) SERVICE

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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 Coolant Hoses and Clamps 3
3 3 Inspect Brake System 3
3 3 Inspect Exhaust System 3
3 3 Inspect C/V Joint boots 3
3 3 Inspect Steering Linkage/Front Suspension 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 50°F (10°C) ..... SAE 20W-50 API/SF/CC Or SF/CD 3
3 140-50°F (-10°C To +10°C) ..... SAE 10W-40 API/SF/CC Or SF/CD 3
3 Less Than 140 F (-10°C) ..... SAE 5W-30 API/SF/CC Or SF/CD 3
3 Fluid Capacities 3
3 Application (1) Quantity 3
3 Engine Oil (2) ..... 4.8 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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45,000 MILE (72,000 KM) SERVICE

45,000 MILE (72,000 KM) SERVICE

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Service Or Inspect		3
3	Verify Last Major Service Was Performed	3
3	Diagnostic System Read Out	3
3	Check Fluid Levels	3
3	Check Cooling System Hoses and Clamps	3
3	Check Coolant Strength	3
3	Inspect For Fluid Leaks	3
3	Inspect/Adjust Accessory Drive Belts (Replace if Required)	3
3	A/C Cooling & Heating System	3
3	Inspect Distributor Cap & Rotor (Replace if Required)	3
3	Inspect Ignition Wires (Replace if Required)	3
3	Crankcase Ventilation System	3
3	Check EGR System and Reset Mileage Indicator	3
3	Intake Air System	3
3	Throttle Linkage	3
3	Inspect Brake System	3
3	Check Exhaust System & Heat Shielding	3
3	Clean Battery and Battery Terminals	3
3	Inspect Fuel/Tank/Cap/Lines	3
3	Check Operation of Horn, Wipers/Washers & All Exterior Lights	3
3	Inspect Condition of Wiper Blades	3
3	Check Headlight Alignment	3
3	Lubricate Weatherstripping with Silicone	3
3	Lubricate Sliding Door Mounting Points	3
3	Door/Hood/Trunk Stops, Hinges & Locks	3
3	Check Body Drain Holes	3

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3	3	Check Seat Belt Webbing and Release Mechanisms	3
3	3	Windshield Washer System	3
3	3	Parking Brake Adjustment	3
3	3	Clutch Adjustment	3
3	3	Clutch Hydraulic System	3
3	3	Suspension & Wheel Bearings	3
3	3	Check Shift Interlock Operation	3
3	3	Inspect Steering Linkage/Front Suspension	3
3	3	Lubricate Chassis	3
3	3	Inspect Brake Pads, Rotors and Calipers	3
3	3	Inspect Brake System Hoses & Lines	3
3	3	Inspect Shocks/Struts for Leakage	3
3	3	Inspect Tire Wear and Condition	3
3	3	Rotate Tires and Adjust Air Pressure (Including Spare)	3
3	3	Replace	3
3	3	Engine Oil	3
3	3	Oil Filter	3
3	3	Lubrication Specifications	3
3	Application	Specification	3
3	Automatic Transmission	Dexron-II ATF Or Equivalent	3
3	Brake Fluid	DOT 3 Or DOT 4 Brake Fluid	3
3	Engine Oil		3
3	Ambient Temperatures		3
3	Greater Than 50°F (10°C)	SAE 20W-50 API/SF/CC Or SF/CD	3
3	14°F-50°F (-10°C To +10°C)	SAE 10W-40 API/SF/CC Or SF/CD	3
3	Less Than 14°F (-10°C)	SAE 5W-30 API/SF/CC Or SF/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	Power Steering Fluid	Dexron ATF Or Equivalent	3
3	Fluid Capacities		3

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Application	(1) Quantity
Automatic Transmission Fluid	
Gearbox	6.4 Qts. (6.0L)
Differential	1.4 Qts. (1.3L)
Cooling System	18.6 Qts (17.5L)
Engine Oil (2)	4.8 Qts. (4.5L)
Front Final Drive (Synchro)	1.6 Qts. (1.5L)
Manual Transmission Fluid	
2WD	4.7 Qts. (4.5L)
4WD	
4 Speed	3.2 Qts. (3.0L)
5 Speed	4.2 Qts. (4.0L)
(1) - Capacities are recommended or calculated levels. Always use dipstick (if available) to measure level.	
(2) - Includes filter change.	
Service Labor Times	
Application	(1)(2) Hours
Gasoline Engine	
Automatic Transmission	(3) 1.3
Manual Transmission	(3) 1.5
(1) - Add .2 hr. if equipped with A/C.	
(2) - Add .1 hr. if equipped with cruise control.	
(3) - Add .2 hr. for water cooled engines.	

52,500 MILE (84,000 KM) SERVICE

52,500 MILE (84,000 KM) SERVICE

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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 50°F (10°C) ..... SAE 20W-50 API/SF/CC Or SF/CD 3
3  140-50°F (-10°C To +10°C) ..... SAE 10W-40 API/SF/CC Or SF/CD 3
3  Less Than 140°F (-10°C) ..... SAE 5W-30 API/SF/CC Or SF/CD 3
3  Fluid Capacities 3
3  Application (1) Quantity 3
3  Engine Oil (2) ..... 4.8 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  
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60,000 MILE (96,000 KM) SERVICE

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60,000 MILE (96,000 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 Check Fluid Levels 3
3  3 Check Cooling System Hoses and Clamps 3
3  3 Check Coolant Strength 3
3  3 Inspect For Fluid Leaks 3
3  3 Inspect/Adjust Accessory Drive Belts (Replace if Required) 3
3  3 A/C Cooling & Heating System 3
3  3 Inspect Distributor Cap & Rotor (Replace if Required) 3
3  
```

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3	3	Inspect Ignition Wires (Replace if Required)	3
3	3	Crankcase Ventilation System	3
3	3	Check EGR System and Reset Mileage Indicator	3
3	3	Intake Air System	3
3	3	Throttle Linkage	3
3	3	Inspect Brake System	3
3	3	Check Exhaust System & Heat Shielding	3
3	3	Clean Battery and Battery Terminals	3
3	3	Inspect Fuel/Tank/Cap/Lines	3
3	3	Check Operation of Horn, Wipers/Washers & All Exterior Lights	3
3	3	Inspect Condition of Wiper Blades	3
3	3	Check Headlight Alignment	3
3	3	Lubricate Weatherstripping with Silicone	3
3	3	Lubricate Sliding Door Mounting Points	3
3	3	Door/Hood/Trunk Stops, Hinges & Locks	3
3	3	Check Body Drain Holes	3
3	3	Check Seat Belt Webbing and Release Mechanisms	3
3	3	Windshield Washer System	3
3	3	Parking Brake Adjustment	3
3	3	Clutch Adjustment	3
3	3	Clutch Hydraulic System	3
3	3	Suspension & Wheel Bearings	3
3	3	Check Shift Interlock Operation	3
3	3	Inspect Steering Linkage/Front Suspension	3
3	3	Lubricate Chassis	3
3	3	Inspect Brake Pads, Rotors and Calipers	3

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3	3	Inspect Brake System Hoses & Lines	3
3	3	Inspect Shocks/Struts for Leakage	3
3	3	Inspect Tire Wear and Condition	3
3	3	Rotate Tires and Adjust Air Pressure (Including Spare)	3
3		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	Valve Cover Gaskets	3
3	3	Replace Automatic Transmission Fluid and Clean ATF Strainer	3
3	3	Manual Transmission Fluid	3
3	3	Automatic Transmission Differential Oil	3
3	3	Oxygen Sensor	3
3	3	Drain, Refill and Bleed Brake System Fluid	3
3	3	Drain, Flush and Refill Engine Coolant	3
3		Lubrication Specifications	3
3	Application	Specification	3
3			3
3	Automatic Transmission	Dexron-II ATF Or Equivalent	3
3	Brake Fluid	DOT 3 Or DOT 4 Brake Fluid	3
3	Engine Oil		3
3	Ambient Temperatures		3
3	Greater Than 50°F (10°C)	SAE 20W-50 API/SF/CC Or SF/CD	3
3	14°F (-10°C To +10°C)	SAE 10W-40 API/SF/CC Or SF/CD	3
3	Less Than 14°F (-10°C)	SAE 5W-30 API/SF/CC Or SF/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	Power Steering Fluid	Dexron ATF Or Equivalent	3
3	Fluid Capacities		3
3	Application	(1) Quantity	3
3			3

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SCHEDULED SERVICES - GASOLINE (WATER-COOLED)

Article Text (p. 22)

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Saturday, March 18, 2000 09:43PM

```
3      Replace 3
3      3 Engine Oil 3
3      3 Oil Filter 3
3      Lubrication Specifications 3
3 Application Specification 3
3
3 Engine Oil 3
3 Ambient Temperatures 3
3 Greater Than 50°F (10°C) ..... SAE 20W-50 API/SF/CC Or SF/CD 3
3 140-50°F (-10°C To +10°C) ..... SAE 10W-40 API/SF/CC Or SF/CD 3
3 Less Than 140°F (-10°C) ..... SAE 5W-30 API/SF/CC Or SF/CD 3
3 Fluid Capacities 3
3 Application (1) Quantity 3
3
3 Engine Oil (2) ..... 4.8 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
3
```

75,000 MILE (120,000 KM) SERVICE

```
75,000 MILE (120,000 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 Check Fluid Levels 3
3      3 Check Cooling System Hoses and Clamps 3
3      3 Check Coolant Strength 3
3      3 Inspect For Fluid Leaks 3
3      3 Inspect/Adjust Accessory Drive Belts (Replace if Required) 3
3      3 A/C Cooling & Heating System 3
3      3 Inspect Distributor Cap & Rotor (Replace if Required) 3
3      3 Inspect Ignition Wires (Replace if Required) 3
```

SCHEDULED SERVICES - GASOLINE (WATER-COOLED)

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Crankcase Ventilation System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check EGR System and Reset Mileage Indicator 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Intake Air System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Throttle Linkage 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Brake System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Exhaust System & Heat Shielding 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Clean Battery and Battery Terminals 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Fuel/Tank/Cap/Lines 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Operation of Horn, Wipers/Washers & All Exterior Lights 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Condition of Wiper Blades 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Headlight Alignment 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Weatherstripping with Silicone 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Sliding Door Mounting Points 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Door/Hood/Trunk Stops, Hinges & Locks 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Body Drain Holes 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Seat Belt Webbing and Release Mechanisms 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Windshield Washer System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Parking Brake Adjustment 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Clutch Adjustment 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Clutch Hydraulic System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Suspension & Wheel Bearings 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Shift Interlock Operation 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Steering Linkage/Front Suspension 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Chassis 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Brake Pads, Rotors and Calipers 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Brake System Hoses & Lines 3

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SCHEDULED SERVICES - GASOLINE (WATER-COOLED)

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3 3 Inspect Shocks/Struts for Leakage 3		
3 3 Inspect Tire Wear and Condition 3		
3 3 Rotate Tires and Adjust Air Pressure (Including Spare) 3		
3 Replace 3		
3 3 Engine Oil 3		
3 3 Oil Filter 3		
3 Lubrication Specifications 3		
3 Application	Specification	3
3		3
3 Automatic Transmission	Dexron-II ATF Or Equivalent	3
3 Brake Fluid	DOT 3 Or DOT 4 Brake Fluid	3
3 Engine Oil		3
3 Ambient Temperatures		3
3 Greater Than 50°F (10°C)	SAE 20W-50 API/SF/CC Or SF/CD	3
3 140-50°F (-10°C To +10°C)	SAE 10W-40 API/SF/CC Or SF/CD	3
3 Less Than 140°F (-10°C)	SAE 5W-30 API/SF/CC Or SF/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 Power Steering Fluid	Dexron ATF Or Equivalent	3
3 Fluid Capacities 3		
3 Application	(1) Quantity	3
3		3
3 Automatic Transmission Fluid		3
3 Gearbox	6.4 Qts. (6.0L)	3
3 Differential	1.4 Qts. (1.3L)	3
3 Cooling System	18.6 Qts (17.5L)	3
3 Engine Oil (2)	4.8 Qts. (4.5L)	3
3 Front Final Drive (Synchro)	1.6 Qts. (1.5L)	3
3 Manual Transmission Fluid		3
3 2WD	4.7 Qts. (4.5L)	3
3 4WD		3
3 4 Speed	3.2 Qts. (3.0L)	3
3 5 Speed	4.2 Qts. (4.0L)	3
3		3
3 (1) - Capacities are recommended or calculated levels. Always use		3
3 dipstick (if available) to measure level.		3
3 (2) - Includes filter change.		3
3 Service Labor Times 3		
3 Application	(1)(2) Hours	3

SCHEDULED SERVICES - GASOLINE (WATER-COOLED)

Article Text (p. 25)

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[illegible]

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 C/V Joint boots

Inspect Steering Linkage/Front Suspension

Lubricate Chassis

Replace

Engine Oil

Oil Filter

Lubrication Specifications

Application	Specification
Engine Oil	
Ambient Temperatures	
Greater Than 50°F (10°C)	SAE 20W-50 API/SF/CC Or SF/CD
140-50°F (-10 To +10°C)	SAE 10W-40 API/SF/CC Or SF/CD
Less Than 140 F (-10°C)	SAE 5W-30 API/SF/CC Or SF/CD
Fluid Capacities	
Application	(1) Quantity

SCHEDULED SERVICES - GASOLINE (WATER-COOLED)

Article Text (p. 26)

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[illegible]

90,000 MILE (144,000 KM) SERVICE

90,000 MILE (144,000 KM) SERVICE

U		
3	Service Or Inspect	3
3	Verify Last Major Service Was Performed	3
3	Diagnostic System Read Out	3
3	Check Fluid Levels	3
3	Check Cooling System Hoses and Clamps	3
3	Check Coolant Strength	3
3	Inspect For Fluid Leaks	3
3	Inspect/Adjust Accessory Drive Belts (Replace if Required)	3
3	A/C Cooling & Heating System	3
3	Inspect Distributor Cap & Rotor (Replace if Required)	3
3	Inspect Ignition Wires (Replace if Required)	3
3	Crankcase Ventilation System	3
3	Check EGR System and Reset Mileage Indicator	3
3	Intake Air System	3
3	Throttle Linkage	3
3	Inspect Brake System	3
3	Check Exhaust System & Heat Shielding	3
3	Clean Battery and Battery Terminals	3
3	Inspect Fuel/Tank/Cap/Lines	3
3	Check Operation of Horn, Wipers/Washers & All Exterior Lights	3
3	Inspect Condition of Wiper Blades	3

SCHEDULED SERVICES - GASOLINE (WATER-COOLED)

Article Text (p. 27)

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Headlight Alignment 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Weatherstripping with Silicone 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Sliding Door Mounting Points 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Door/Hood/Trunk Stops, Hinges & Locks 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Body Drain Holes 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Seat Belt Webbing and Release Mechanisms 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Windshield Washer System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Parking Brake Adjustment 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Clutch Adjustment 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Clutch Hydraulic System 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Suspension & Wheel Bearings 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Check Shift Interlock Operation 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Steering Linkage/Front Suspension 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Lubricate Chassis 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Brake Pads, Rotors and Calipers 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Brake System Hoses & Lines 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Shocks/Struts for Leakage 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Inspect Tire Wear and Condition 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Rotate Tires and Adjust Air Pressure (Including Spare) 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Replace 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Engine Oil 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Oil Filter 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Air Filter Element 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Spark Plugs 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Valve Cover Gaskets 3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 3 Replace Automatic Transmission Fluid and Clean ATF Strainer 3

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SCHEDULED SERVICES - GASOLINE (WATER-COOLED)

Article Text (p. 28)

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Saturday, March 18, 2000 09:43PM

3 3 Drain, Refill and Bleed Brake System Fluid 3		
3 3 Drain, Flush and Refill Engine Coolant 3		
3 Lubrication Specifications 3		
3 Application	Specification	3
3		3
3 Automatic Transmission	Dexron-II ATF Or Equivalent	3
3 Brake Fluid	DOT 3 Or DOT 4 Brake Fluid	3
3 Engine Oil		3
3 Ambient Temperatures		3
3 Greater Than 50°F (10°C)	SAE 20W-50 API/SF/CC Or SF/CD	3
3 140-50°F (-10°C To +10°C)	SAE 10W-40 API/SF/CC Or SF/CD	3
3 Less Than 140°F (-10°C)	SAE 5W-30 API/SF/CC Or SF/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 Power Steering Fluid	Dexron ATF Or Equivalent	3
3 Fluid Capacities 3		
3 Application	(1) Quantity	3
3		3
3 Automatic Transmission Fluid		3
3 Gearbox	6.4 Qts. (6.0L)	3
3 Differential	1.4 Qts. (1.3L)	3
3 Cooling System	18.6 Qts (17.5L)	3
3 Engine Oil (2)	4.8 Qts. (4.5L)	3
3 Front Final Drive (Synchro)	1.6 Qts. (1.5L)	3
3 Manual Transmission Fluid		3
3 2WD	4.7 Qts. (4.5L)	3
3 4WD		3
3 4 Speed	3.2 Qts. (3.0L)	3
3 5 Speed	4.2 Qts. (4.0L)	3
3		3
3 (1) - Capacities are recommended or calculated levels. Always use		3
3 dipstick (if available) to measure level.		3
3 (2) - Includes filter change.		3
3 Service Labor Times 3		
3 Application	(1)(2) Hours	3
3		3
3 Gasoline Engine		3
3 Automatic Transmission	(3)(4) 3.0	3
3 Manual Transmission	(3)(4) 2.5	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 .2 hr. for water cooled engines.		3

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97,500 MILE (156,000 KM) SERVICE
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 C/V Joint boots 3
3 3 Inspect Steering Linkage/Front Suspension 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
3 Engine Oil 3
3 Ambient Temperatures 3
3 Greater Than 50°F (10°C) ..... SAE 20W-50 API/SF/CC Or SF/CD 3
3 140-50°F (-10 To +10°C) ..... SAE 10W-40 API/SF/CC Or SF/CD 3
3 Less Than 140 F (-10°C) ..... SAE 5W-30 API/SF/CC Or SF/CD 3
3 Fluid Capacities 3
3 Application (1) Quantity 3
3
3 Engine Oil (2) ..... 4.8 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

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SCHEDULED SERVICES - GASOLINE (WATER-COOLED)

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3	3	Door/Hood/Trunk Stops, Hinges & Locks	3
3	3	Check Body Drain Holes	3
3	3	Check Seat Belt Webbing and Release Mechanisms	3
3	3	Windshield Washer System	3
3	3	Parking Brake Adjustment	3
3	3	Clutch Adjustment	3
3	3	Clutch Hydraulic System	3
3	3	Suspension & Wheel Bearings	3
3	3	Check Shift Interlock Operation	3
3	3	Inspect Steering Linkage/Front Suspension	3
3	3	Lubricate Chassis	3
3	3	Inspect Brake Pads, Rotors and Calipers	3
3	3	Inspect Brake System Hoses & Lines	3
3	3	Inspect Shocks/Struts for Leakage	3
3	3	Inspect Tire Wear and Condition	3
3	3	Rotate Tires and Adjust Air Pressure (Including Spare)	3
3	3	Replace	3
3	3	Engine Oil	3
3	3	Oil Filter	3
3	3	Lubrication Specifications	3
3	Application	Specification	3
3	Automatic Transmission	Dexron-II ATF Or Equivalent	3
3	Brake Fluid	DOT 3 Or DOT 4 Brake Fluid	3
3	Engine Oil		3
3	Ambient Temperatures		3
3	Greater Than 50°F (10°C)	SAE 20W-50 API/SF/CC Or SF/CD	3
3	14°F (-10°C) To +10°C	SAE 10W-40 API/SF/CC Or SF/CD	3
3	Less Than 14°F (-10°C)	SAE 5W-30 API/SF/CC Or SF/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

SCHEDULED SERVICES - GASOLINE (WATER-COOLED)

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Saturday, March 18, 2000 09:43PM

3	Power Steering Fluid	Dexron ATF Or Equivalent	3
3	Fluid Capacities			
3	Application			
3	(1) Quantity			
3	Automatic Transmission Fluid			
3	Gearbox	.....	6.4 Qts. (6.0L)	3
3	Differential	.....	1.4 Qts. (1.3L)	3
3	Cooling System	.....	18.6 Qts (17.5L)	3
3	Engine Oil (2)	.....	4.8 Qts. (4.5L)	3
3	Front Final Drive (Synchro)	.....	1.6 Qts. (1.5L)	3
3	Manual Transmission Fluid			
3	2WD	.....	4.7 Qts. (4.5L)	3
3	4WD	.....		3
3	4 Speed	.....	3.2 Qts. (3.0L)	3
3	5 Speed	.....	4.2 Qts. (4.0L)	3
3	(1) - Capacities are recommended or calculated levels. Always use			
3	dipstick (if available) to measure level.			
3	(2) - Includes filter change.			
3	Service Labor Times			
3	Application			
3	(1)(2) Hours			
3	Gasoline Engine			
3	Automatic Transmission	.....	(3) 1.3	3
3	Manual Transmission	.....	(3) 1.5	3
3	(1) - Add .2 hr. if equipped with A/C.			
3	(2) - Add .1 hr. if equipped with cruise control.			
3	(3) - Add .2 hr. for water cooled engines.			

112,500 MILE (180,000 KM) SERVICE

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

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3 3 Inspect Steering Linkage/Front Suspension 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
3 Engine Oil 3
3 Ambient Temperatures 3
3 Greater Than 50°F (10°C) ..... SAE 20W-50 API/SF/CC Or SF/CD 3
3 140-50°F (-10°C To +10°C) ..... SAE 10W-40 API/SF/CC Or SF/CD 3
3 Less Than 140°F (-10°C) ..... SAE 5W-30 API/SF/CC Or SF/CD 3
3 Fluid Capacities 3
3 Application (1) Quantity 3
3
3 Engine Oil (2) ..... 4.8 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

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120,000 MILE (192,000 KM) SERVICE

120,000 MILE (192,000 KM) SERVICE

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3 Service Or Inspect 3
3 3 Verify Last Major Service Was Performed 3
3 3 Diagnostic System Read Out 3
3 3 Check Fluid Levels 3
3 3 Check Cooling System Hoses and Clamps 3
3 3 Check Coolant Strength 3
3 3 Inspect For Fluid Leaks 3
3 3 Inspect/Adjust Accessory Drive Belts (Replace if Required) 3

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SCHEDULED SERVICES - GASOLINE (WATER-COOLED)

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3	3	A/C Cooling & Heating System	3
3	3	Inspect Distributor Cap & Rotor (Replace if Required)	3
3	3	Inspect Ignition Wires (Replace if Required)	3
3	3	Crankcase Ventilation System	3
3	3	Check EGR System and Reset Mileage Indicator	3
3	3	Intake Air System	3
3	3	Throttle Linkage	3
3	3	Inspect Brake System	3
3	3	Check Exhaust System & Heat Shielding	3
3	3	Clean Battery and Battery Terminals	3
3	3	Inspect Fuel/Tank/Cap/Lines	3
3	3	Check Operation of Horn, Wipers/Washers & All Exterior Lights	3
3	3	Inspect Condition of Wiper Blades	3
3	3	Check Headlight Alignment	3
3	3	Lubricate Weatherstripping with Silicone	3
3	3	Lubricate Sliding Door Mounting Points	3
3	3	Door/Hood/Trunk Stops, Hinges & Locks	3
3	3	Check Body Drain Holes	3
3	3	Check Seat Belt Webbing and Release Mechanisms	3
3	3	Windshield Washer System	3
3	3	Parking Brake Adjustment	3
3	3	Clutch Adjustment	3
3	3	Clutch Hydraulic System	3
3	3	Suspension & Wheel Bearings	3
3	3	Check Shift Interlock Operation	3
3	3	Inspect Steering Linkage/Front Suspension	3

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3	3	Lubricate Chassis	3
3	3	Inspect Brake Pads, Rotors and Calipers	3
3	3	Inspect Brake System Hoses & Lines	3
3	3	Inspect Shocks/Struts for Leakage	3
3	3	Inspect Tire Wear and Condition	3
3	3	Rotate Tires and Adjust Air Pressure (Including Spare)	3
3		Replace	3
3	3	Engine Oil	3
3	3	Oil Filter	3
3	3	Spark Plugs	3
3	3	Air Filter Element	3
3	3	Valve Cover Gaskets	3
3	3	Replace Automatic Transmission Fluid and Clean ATF Strainer	3
3	3	Manual Transmission Fluid	3
3	3	Automatic Transmission Differential Oil	3
3	3	Oxygen Sensor	3
3	3	Drain, Refill and Bleed Brake System Fluid	3
3	3	Drain, Flush and Refill Engine Coolant	3
3		Lubrication Specifications	3
3	Application	Specification	3
3			3
3	Automatic Transmission	Dexron-II ATF Or Equivalent	3
3	Brake Fluid	DOT 3 Or DOT 4 Brake Fluid	3
3	Engine Oil		3
3	Ambient Temperatures		3
3	Greater Than 50°F (10°C)	SAE 20W-50 API/SF/CC Or SF/CD	3
3	14°F (-10°C To +10°C)	SAE 10W-40 API/SF/CC Or SF/CD	3
3	Less Than 14°F (-10°C)	SAE 5W-30 API/SF/CC Or SF/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	Power Steering Fluid	Dexron ATF Or Equivalent	3

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Fluid Capacities		
Application		(1) Quantity
Automatic Transmission Fluid		
Gearbox	6.4 Qts. (6.0L)	
Differential	1.4 Qts. (1.3L)	
Cooling System	18.6 Qts (17.5L)	
Engine Oil (2)	4.8 Qts. (4.5L)	
Front Final Drive (Synchro)	1.6 Qts. (1.5L)	
Manual Transmission Fluid		
2WD	4.7 Qts. (4.5L)	
4WD		
4 Speed	3.2 Qts. (3.0L)	
5 Speed	4.2 Qts. (4.0L)	
(1) - Capacities are recommended or calculated levels. Always use dipstick (if available) to measure level.		
(2) - Includes filter change.		
Service Labor Times		
Application		(1)(2) Hours
Gasoline Engine		
Automatic Transmission	(3)(4) 3.2	
Manual Transmission	(3)(4) 2.7	
(1) - Add .2 hr. if equipped with A/C.		
(2) - Add .1 hr. if equipped with cruise control.		
(3) - Add .2 hr. for water cooled engines.		
(4) - Add .3 hr. to replace O2 sensor.		

LUBRICATION SPECIFICATIONS

LUBRICATION SPECIFICATIONS TABLE

Application		Fluid Specifications
Automatic Transmission		Dexron-IIIE ATF Or Equivalent
Brake Fluid		DOT 4 Brake Fluid
Engine Oil		
Ambient Temperatures		
Greater Than 50°F (10°C)	SAE 20W-50 API SG/CD	
14°F-50°F (-10°C To +10°C)	SAE 10W-40 API SG/CD	
Less Than 14°F (-10°C)	SAE 5W-30 API SG/CD	
Final Drive (Front		
Differential AWD)	Hypoid Gear Oil SAE 75W-90 API/GL-5	
Manual Transmission	Hypoid Gear Oil SAE 75W-90 API/GL-4	
Manual Transaxle	SAE 80W API GL-4 Or SAE 75W-90 Synthetic Transmission Oil G 50	

SCHEDULED SERVICES - GASOLINE (WATER-COOLED)

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Power Steering Fluid Dexron-II E ATF Or Equivalent
AA

FLUID CAPACITIES

FLUID CAPACITIES TABLE (1)

AA

Application	Quantity
A/C R-12 Refrigerant	50 Ozs.
Automatic Transmission	
Fluid Change	3.2 Qts. (3.0L)
Dry Fill	6.4 Qts. (6.0L)
Final Drive (Rear) (2)	
Differential (A/T)	1.4 Qts. (1.3L)
Cooling System	
1.6L Diesel	18.6 Qts (17.5L)
1.9L Gas	18.6 Qts (17.5L)
2.1L Gas	18.6 Qts (17.5L)
Engine Oil (3)	
1.6L Diesel	4.2 Qts. (4.0L)
1.9L Gas (Water Cool)	4.7 Qts. (4.5L)
2.0L Gas (Air Cool)	3.7 Qts. (3.5L)
2.1L Gas (Water Cool)	4.7 Qts. (4.5L)
Front Final Drive (Syncro)	1.6 Qts. (1.5L)
Fuel Tank	
2WD	16.0 Gals. (60L)
4WD (Synchro)	18.5 Gals. (70L)
Manual Transmission (4)	
4-Spd (Type 091)	3.7 Qts. (3.5L)
5-Spd (Type 091/1) (5)	
Fluid Change	1.6 Qts. (1.5L)
Dry Fill	3.2 Qts. (3.0L)
4-Spd+Low (Type 094/4WD) (5)	
Fluid Change	3.2 Qts. (3.0L)
Dry Fill	4.7 Qts. (4.5L)
5-Spd (Type 094)	4.2 Qts. (4.0L)
Camper Models	
Fresh Water Tank	14.5 Gals. (55L)
LP Gas Tank	3.2 Gals. (12L)

- (1) - Capacities are recommended or calculated levels. Always use dipstick (if available) to measure level.
(2) - Lifetime fill.
(3) - Includes filter change.
(4) - One piece housing (M/T and Final Drive).
(5) - When changing fluid 1.6 Qts. (1.5L) will not drain, fluid must be suctioned from housing to change completely.

AA

END OF ARTICLE