SECTION B

MAINTENANCE AND LUBRICATION

ALL SERIES

CONTENTS

DIVISION III

ADJUSTMENTS AND MINOR SERVICE

00-9 ENGINE OIL RECOMMENDATIONS

A. Engine Oil

Engine crankcase oils have a definite effect on ease of starting, oil economy, combustion chamber deposits and engine wear. It is recommended that an oil which, according to the label on the can, is: (1) intended for service SE and (2) passes car makers' tests be used. Oils conforming to these types contain detergent additives.

B. Grade or Viscosity

The grade or viscosity (SAE number) of engine oil should be selected for the lowest anticipated temperature at which cold engine starting will be required as recommended in the temperature-viscosity chart in subparagraph d.

Oil level should be checked more frequently during the break-in period since somewhat higher oil consumption is normal until piston rings become seated.

The oil level should be maintained between the "operating range" marks on the gage rod; the space between marks represents one quart. Do not fill above the upper mark.

C. Oil Color

The color of "Service SE" type oil does not indicate its condition since it normally becomes dark (black or gray) after only a few hundred miles of driving. This is because the detergent content envelopes and holds in suspension extremely fine but harmless soot (soft carbon) and lead particles. The oil filter element does not remove this harmless material but it does remove harmful particles such as road dust, metal chips and hard carbon.

d. Engine Oil Change and Viscosity Recommendations

The chart below indicates the recommended engine oil viscosity grade for all season operation. Alternate engine oil viscosity grades are also shown which are permissible but must be used in accordance with the temperature ranges indicated in the chart.

5W-30	RECOMMENDED FOR ALL SEASONS
Alternate Engine Oil Viscosity Grades	
5W-20	Below 20°F
10W-40, 10W-30 10W, 20W-40, 20W	Above 20°F

E. Crankcase Flushing

Flushing the crankcase with oils or solutions other than a good grade of 10-W engine oil is not recommended. When flushing to remove contamination appears advisable, use 3 quarts 10-W oil (4 quarts if filter is drained) and idle the engine at 1000 RPM (equivalent to 20 MPH) until the oil is hot, then drain crankcase and oil filter immediately after stopping engine. Fill crankcase with correct quantity and seasonal grade of oil. Install new oil filter element.

F. Engine Oil Supplement

Engine Oil Supplement or equivalent is a compound of the materials used by oil refiners to manufacture high detergent motor oils. It is intended for use in engines operating under aggravated conditions where engine deposits, rust and corrosion cannot be adequately retarded by motor oils readily available to the average motorist. It is especially recommended for engines operated under restricted conditions such as frequent stops, short trips and slow speeds where such symptoms are sticking valves, valve lifters and rings are noticed.

Although Engine Oil Supplement may be used continually, it is normally unnecessary to use it with every crankcase refill. When used, the instructions on the container should be carefully observed.

00-10 PERIODICALLY WHILE VEHICLE IS BEING REFUELED

1. Battery - Check Level

If necessary, add colorless, odorless drinking water to bring level to split ring at bottom of filler wells. DO NOT OVERFILL.

2. Tires

For maximum tire life with corresponding good ride characteristics, maintain the tire pressure recommended in Group 100.

3. Engine Oil

This check should be performed last to allow the oil to drain back into the pan. Always add oil if the level is below the lower mark on the dip stick. See Figure 00-14.

4. Automatic Transmission Oil

Check for proper level after a minimum of 15 miles of highway or freeway-type driving. With engine running and transmission in "ParK" range, level should be

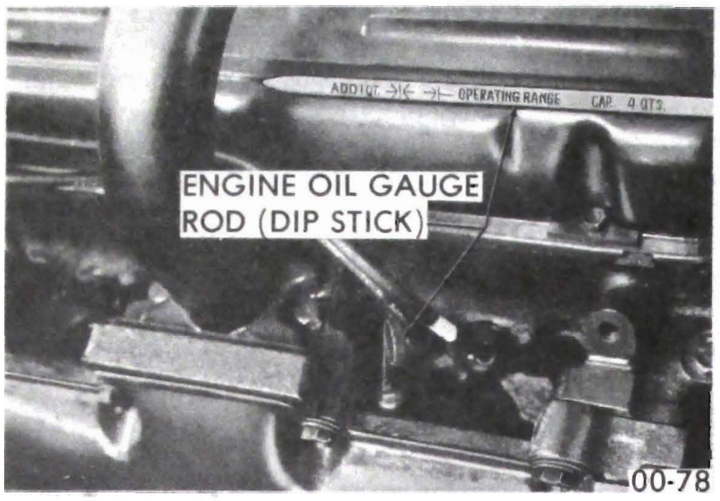


Figure 00-14 - Engine Oil Gauge Rod

between the two marks on the dipstick. See Figure 00-17. Be sure dipstick is fully seated in filler pipe when checking to insure proper reading. Use only fluid having Dexron identification, or equivalent, if oil is required.

5. Windshield Washer Solvent

If necessary, add solvent using GM Optikleen or equivalent. Follow instructions on label for correct concentration of solvent and water.

00-11 MAINTENANCE RECOMMENDATIONS - EVERY 4 MONTHS

1. Engine Oil Change

Drain and refill engine crankcase every 4 months. If more than 6,000 miles are driven in a 4 month period, change oil every 6,000 miles. See subparagraph d. for oil recommendations.

Certain driving conditions including prolonged operation in sub-zero temperatures, trailer hauling and extensive idling necessitates more frequent oil changes. Under these conditions oil change intervals should not exceed 2 months or 3,000 miles, whichever occurs first.

2. Engine Oil Filter Change

Replace engine oil filter at the first engine oil change and every second oil change thereafter.

To change, screw filter off the filter base and discard. Wipe the gasket area of the base clean and install a new gasket in the groove of a new AC type PF-24 filter (V-8), or equivalent. Lubricate the gasket and screw the filter on the nipple until the gasket just touches the base; tighten filter 2/3 of a turn more. Start engine. *Do not accelerate engine beyond the normal idle speed until oil pressure light goes out.* Check the filter area for leaks after the engine has run for five (5) minutes.

3. Emission Control

Check engine idle speed, ignition timing and Positive Crankcase Ventilation System at first oil change (four months or 6,000 miles, whichever occurs first). Subsequent checks should be made every 12 months or 12,000 miles, whichever occurs first.

00-12 MAINTENANCE RECOMMENDATIONS - EVERY FOUR MONTHS OR 6,000 MILES

1. Front Suspension and Steering Linkage

The front suspension and steering linkage should be lubricated with a water resistant extreme pressure EP No. 2 Multi-Purpose grease equivalent to GM Specification 6031-M every four months or 6,000 miles whichever occurs first.

If lubricants not meeting GM Specification 9985038 are used, the lubrication interval should be shortened and should not exceed 2,000 miles.

Wipe dirt from the lubrication fittings and apply lubricant under pressure at the following points:

Upper Ball Joints (2 fittings)

Lower Ball Joints (2 fittings)

Steering Linkage (7 fittings)

2. Clutch Lash

Should be adjusted every 6,000 miles. See Group 71 for procedures.

3. Tires

For best tire mileage, rotate tires every four months or 6,000 miles as shown in Figure 00-15. After tire rotation, adjust tire pressure to the recommended pressure listed in Group 100.

A decrease in traction and anti-skid properties, as well as road hazard resistance, occurs as tires become worn out. The original equipment tires incorporate built-in tread wear indicators to assist in judging when tires should be replaced. These indicators are molded into the bottom of the tread grooves and will appear as 1/2 inch wide bands when tire tread depth becomes a 1/16 of an inch. When the indicators appears in two or more adjacent grooves, tire replacement is recommended. See Figure 00-16.

4. Check Fluid Level

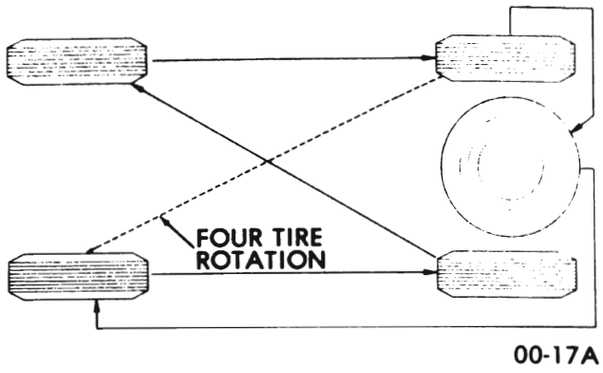


Figure 00-15 - Tire Rotation Method

Figure 00-16 Tread Wear Indicators

Brake Master Cylinder

All models are equipped with dual master cylinders. Maintain fluid level 1/4 inch plus or minus 1/8 inch below top of each filler opening. When adding brake fluid, use Delco Supreme No. 11 hydraulic brake fluid or equivalent. Never use reclaimed fluid, mineral oil, or fluid inferior to SAE Standard J1703.

Manual Transmission

Check oil level, after allowing time for oil to settle. Clean the surrounding area before removing filler plug. Level should be maintained at filler plug opening by adding SAE/80 GL-5 multi-purpose gear lubricant. Draining and flushing manual transmission is not recommended.

Automatic Transmission

Refer to Group 75 or 76 for correct refill procedures.

Power Steering Reservoir

Thoroughly clean any excessive amounts of dirt from reservoir cap before removing. Maintain level in accordance with fill marking on cap dip stick. Use *only* Power Steering Fluid GM Part No. 5723684 or equivalent.

Standard Differential Rear Axle

Check lubricant level after allowing time for lube to settle. Clean surrounding area before removing filler plug. Level should be maintained not lower than 3/8 inch below filler plug opening by adding SAE/80 GL-5 multi-purpose gear lubricant.

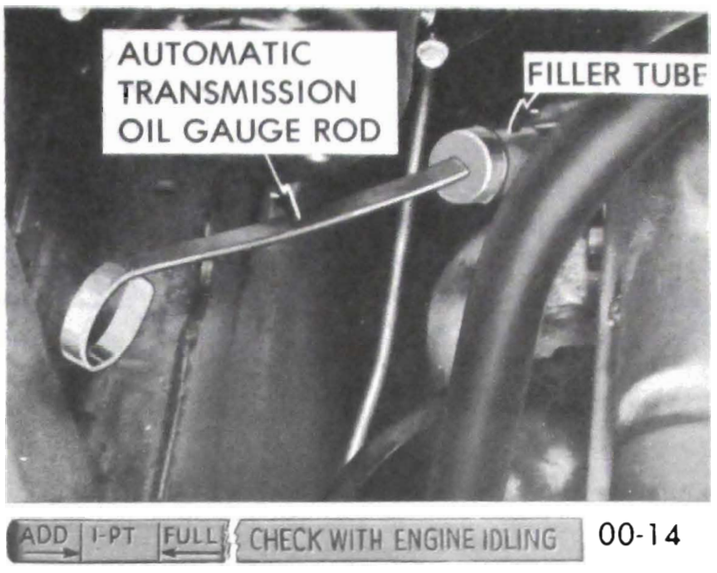


Figure 00-17 - Automatic Transmission Oil Gauge Rod

Draining and flushing are not recommended. When complete refilling is necessary, SAE/80 GL-5 multi-purpose gear lubricant may be used, provided the axle has been in service for 1,000 miles or more. Axles with less than 1,000 miles must not be completely refilled with any lubricant other than Factory Hypoid Lubricant or equivalent.

Positive Traction Differential Rear Axle

U.S. Built Axles

Identified by a stainless steel plate attached by a rear cover bolt, or red plastic tag on filler plug, stating "Use positraction differential lube only" and by a stamped code on the bottom of the left axle tube. See Figure 00-18.

Canadian Built Axles

Identified by a red plastic tag attached to the filler plug stating "USE POSITRACTION DIFF. LUBRICANT ONLY" and by an E stamped below the production month and date on the front face of right axle tube. See Figure 00-19.

Check lubricant level after allowing time for lubricant to settle.

Level should be maintained not lower than 3/8 inch below filler plug opening by adding special lubricant GM Part No. 725985.

If Positive Traction Differential lube becomes

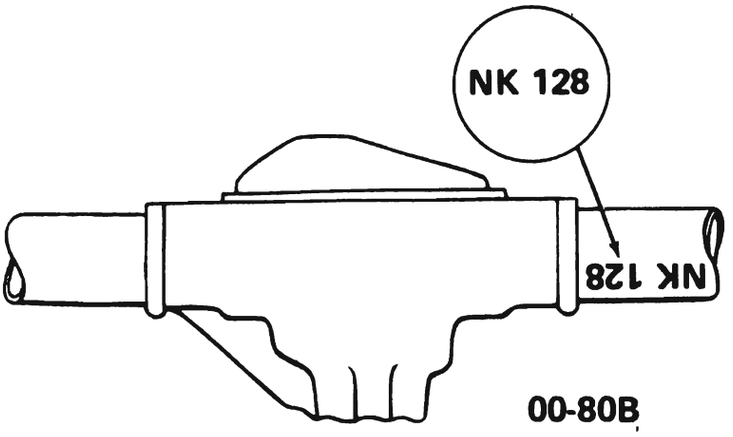


Figure 00-18 - Positive Traction Identification -U.S. Built Axles

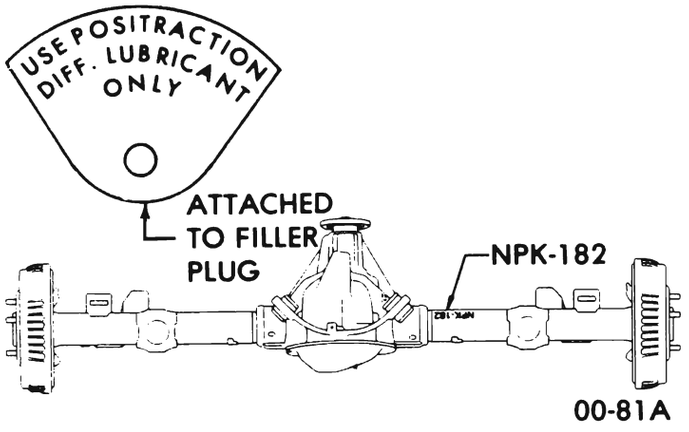


Figure 00-19 - Positive Traction Identification - Canadian Built Axles

contaminated, the axle assembly may be flushed with engine oil. Refer to Group 40 for complete flushing and refill procedures.

5. Minor Lubrication

Occasionally lubricate the pivot points at the following locations with the recommended material.

Hood Hinge - Lubriplate or equivalent.

Hood Latch -

(1) Wipe off any accumulation of dirt or contamination on latch parts.

(2) Apply lubriplate, or equivalent, to latch pilot bolts and latch locking plate.

(3) Apply light engine oil to all pivot points in release mechanism, as well as primary and secondary latch mechanisms.

Door Hinges - Lubriplate or equivalent.

Door Lock Cylinders - powdered graphite. DO NOT USE OIL.

Gas Tank Door Hinge - Engine Oil.

Door Lock Fork Bolt - Stick type lubricant.

Rear Compartment lid lock - Lubriplate or equivalent.

Door Jam Switch - Lubriplate or equivalent.

Front Seat Adjuster Tracks - Lubriplate or equivalent.

Convertible Top Mechanism - Lubriplate or equivalent.

Station Wagon Folding Seat Linkage - Dripless Oil.

Tail Gate Lock Striker - Stick type lubricant.

Tail Gate Hinges - Dripless Oil.

Folding Top Lift Cylinder Piston - With folding top in raised position, wipe exposed portion of each top lift cylinder piston rod with a cloth dampened with brake fluid to remove any oxidation or accumulated grime. With another clean cloth apply a light film of brake fluid to act as a lubricant. Do not allow brake fluid to come in contact with any painted or trimmed parts of the body.

6. Body Rubber Parts

Door, hood, and rear compartment rubber weatherstrips may be kept pliable and quiet by the application of a light coat of GM Part No. 1050110 Lubricant or suitable silicone lubricant equivalent.

00-13 MAINTENANCE RECOMMENDATIONS - EVERY 12,000 MILES

1. Ignition Points, Timing, Spark Plugs and Point Dwell

It is recommended that the spark plugs be cleaned and gapped or, if necessary replaced at 12,000 miles. Also the ignition points should be replaced and the engine timing and point dwell should be set to specifications as stated in Group 69. More frequent service may be required depending on driving conditions.

2. Fuel Filters

Replacement of fuel filter is recommended at 12,000 miles or 12 months whichever occurs first. Remove from carburetor inlet and replace with filter type GF-427 or equivalent for 350 2 bbl. or GF-441, or equivalent, for all V-8's with 4 bbls. More frequent servicing may be necessary if contaminants have entered the fuel system.

3. Distributor Cam Lubricator

It is recommended that the distributor cam lubricator be replaced every 12,000 miles. Remove from post on distributor plate and replace with a new wick. See Figure 00-20.

4. Belts

Inspect engine driven belts for condition and proper tension.

5. Wheel Alignment and Balance

Refer to Group 30.

6. Turbo Hydra-Matic 350-375B and 400

If transmission is subjected to heavy duty usage, such as heavy city traffic during hot weather, or in commercial use, when engine is regularly idled for prolonged periods, the transmission recommendations listed under "24,000 Mile" should be performed at 12,000 miles.

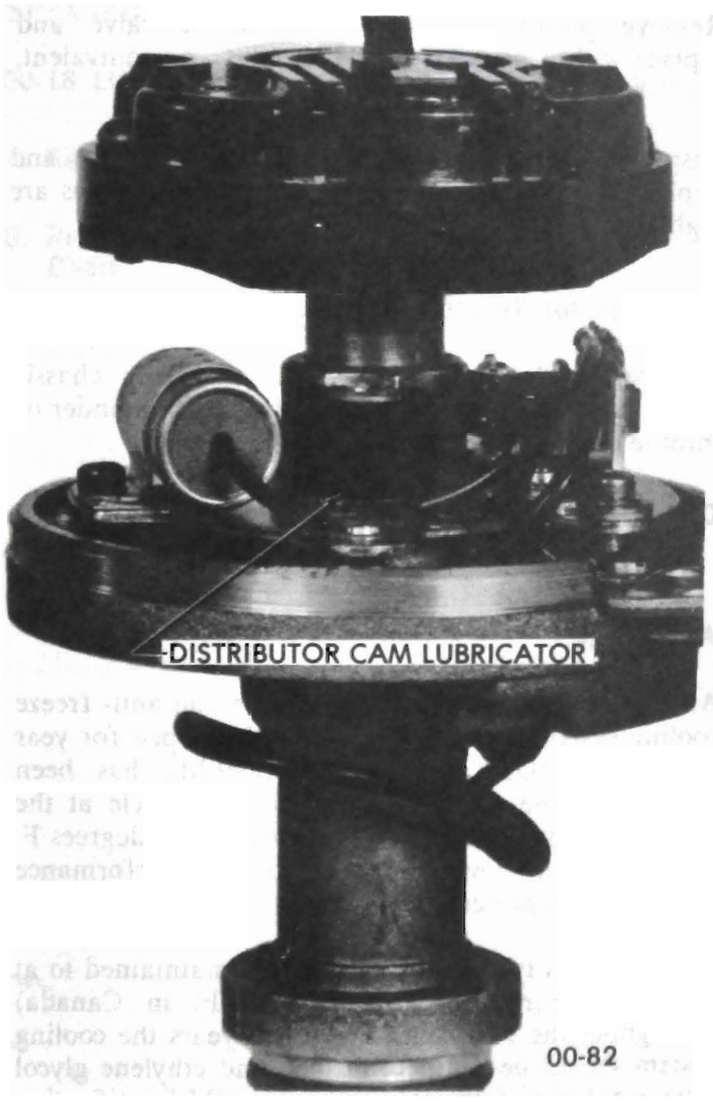


Figure 00-20 - Distributor Cam Lubricator

7. Air Conditioner-Equipped Model

It is recommended that the system should be functionally checked by the dealer each spring.

Keep insects and dirt from accumulating on the air conditioner condenser.

8. Brakes

Examine brake linings for wear and the self adjusting mechanism for proper functioning. Although linings may not be excessively worn, this check will indicate when another inspection should be made.

If equipped with disc brakes, observe friction pad thickness through the inspection opening in the caliper. Refer to Group 50 for service procedure and specifications.

If required, use Buick-approved replacement linings and friction pads, or equivalent. Lubricate self adjusting mechanism adjusting screw with Delco Moraine Special Brake Lubricant, or equivalent.

9. Positive Traction Differential (4L-4N-4R-4P-4U-4V-4Y Only)

Change lube at first 12,000 miles only. Refill with special lubricant GM Part No. 725985.

10. Standard and Positive Traction Differential Axles Used in Trailer Towing Service

If vehicle is used for trailering, drain and refill every 12,000 miles using lubricants recommended for standard and positive traction differential axles.

00-14 MAINTENANCE RECOMMENDATIONS - EVERY 18,000 MILES

1. Front Wheel Bearings (Drum-Type Brakes)

Inspect and lubricate with a high melting point wheel bearing grease, conforming to GM Specification 6031M when brakes are serviced. Always follow with correct bearing adjustment, as outlined in Group 30.

2. Front Wheel Bearings (Disc-Type Brakes)

Inspect and lubricate with a premium high melting point wheel bearing grease meeting GM Specification 9048-P when brakes are serviced. Always follow with correct bearing adjustment, as outlined in Group 30.

00-15 MAINTENANCE RECOMMENDATIONS - EVERY 24,000 MILES

1. Automatic Transmission Turbo Hydra-matic 350-375B and 400

At this interval the automatic transmission should be drained, the oil pan and oil strainer cleaned (Turbo Hydra-matic 350-375B), and oil filter replaced (Turbo Hydra-matic 400 with AC type PF-168, or equivalent) and new oil added, as stated in Groups 75 or 76.

When adding transmission fluid, use only DEXRON Automatic Transmission Fluid or automatic transmission fluid identified with the mark DEXRON on the container, or equivalent.

2. Engine Air Cleaner Element

Replacement of element is required every 24,000 miles. If car is operated in dusty territory, check condition of air cleaner element more frequently and replace if necessary. Service with the following AC-type air cleaner element, or equivalent, for maximum engine protection.

Air Cleaner Element Chart

	ELEMENT USAGE	
	REGULAR	HEAVY DUTY
350 2 & 4-BBL	A329C*	A368C*
455 All	A212CW*	A279C*

*Or Equivalent

3. Crankcase Ventilation Filter

Inspect at every oil change. Replace if necessary with AC-type FB-59, or equivalent. Replace at least every 24,000 miles - more often under dusty conditions. See Figure 00-21.

4. Cooling System

Replace engine coolant with mixture of water and a high-quality ethylene glycol base type anti-freeze, conforming to GM Specification 1899M, or equivalent, sufficient to maintain a minimum corrosion and freeze protection to a minus 20 degrees F. (minus 32 degrees F. in Canada).

5. Positive Crankcase Ventilator Valve

Replace PCV valve at 24,000 or 24 months, whichever occurs first. (When car is driven extensively in heavy traffic during hot weather, used as a commercial vehicle where engine idles for long periods, used to haul a trailer or driven in dusty areas, change every 12 months or 12,000 miles, whichever occurs first.) Remove positive crankcase ventilation valve and replace with a new AC-type CV- 679C, or equivalent, for V-8 engines.

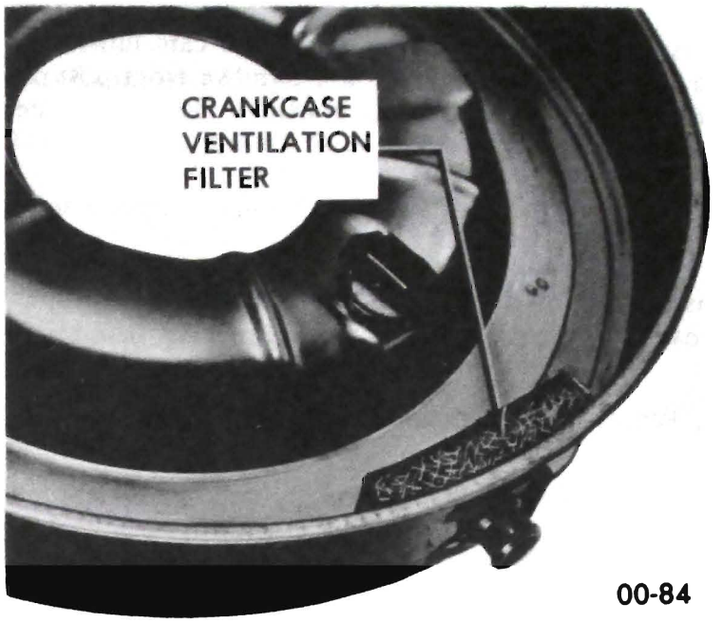


Figure 00-21 - Crankcase Ventilation Filter Location

Inspect PCV system hoses and fittings, clean and replace as necessary. Make certain all connections are tight.

6. Carburetor Throttle Ball Stud

Lubricate carburetor throttle ball stud with chassis lubricant, or equivalent. Do not lubricate remainder of throttle or carburetor linkage.

00-16 MAINTENANCE RECOMMENDATIONS - SEASONAL (COOLING SYSTEM)

Anti-Freeze

An ethylene glycol type anti-corrosive and anti- freeze cooling system protection solution, developed for year around use (GM Specification 1899-M), has been installed in the cooling system of the vehicle at the factory for protection to -20 degrees F. (-32 degrees F. in Canada) to provide adequate cooling performance and corrosion protection.

Although this type coolant should be maintained to at least -20 degrees F. (-32 degrees F. in Canada) throughout the year, once every two years the cooling system should be drained, flushed and ethylene glycol type anti-freeze (also conforming to GM Specification 1899-M) installed. At this time, also add GM cooling system inhibitor and sealer, or equivalent. *Water*

alone, Methanol, or alcohol-type anti-freeze is definitely not recommended.

If water alone must be used as coolant in an emergency, it is extremely important that Buick Heavy Duty Cooling System Protector and Water Pump Lubricant, or equivalent, be added to the cooling system as soon as possible. If any other cooling system protector is used, be sure it is labeled to indicate that it meets GM Specification 1899-M.

00-17 VEHICLE OPERATION UNDER DUSTY CONDITIONS

When cars are operated in adverse dusty climates or conditions, the following precautions should be taken to prevent dirt and other foreign materials from entering the engine.

1. Change Engine Oil

Change more often than is recommended in subparagraph C. The severity of the conditions should determine the frequency of oil changes.

2. Oil Filter

Change each time that the oil is changed under these conditions.

3. Air Cleaner Element

Inspect element. If dirty, replace as recommended under paragraph 00-15.

4. Manual Steering Gear

If gear is disassembled for inspection or repairs, refill with 14 ounces of calcium grease, conforming to GM Specification 4673-M. *Do not use chassis lube because of adverse cold weather characteristics.*

DIVISION VI

SPECIFICATIONS

00-18 LUBRICATION AND CAPACITY CHARTS

A. Refer to Lubrication Chart.

B. Refer to U.S., Imperial and Metric Measure Chart

U.S., IMPERIAL AND METRIC MEASURE CHART

Cooling System	U.S. Measure	Imperial Measure	Metric Measure
350 Cu.In. (Except LeSabre)			
With Heater	16.45 Qts.	13.71 Qts.	15.57 Liters
With Air Conditioner	16.85 Qts.	14.04 Qts.	15.94 Liters
350 Cu.In. (LeSabre)			
With Heater	18.90 Qts.	15.75 Qts.	17.88 Liters
With Air Conditioner	19.30 Qts.	16.08 Qts.	18.26 Liters
455 Cu.In. (G.S.)			
With Heater	16.20 Qts.	13.50 Qts.	15.33 Liters
With Air Conditioner	16.60 Qts.	13.83 Qts.	15.71 Liters
455 Cu.In.			
With Heater	18.70 Qts.	15.58 Qts.	17.69 Liters
With Air Conditioner	19.0 Qts.	15.83 Qts.	17.98 Liters
Crankcase (All Series)			
Refill	4 Qts.	3.30 Qts.	3.78 Liters
With Oil Filter Change	5 Qts.	4.20 Qts.	4.73 Liters
Gasoline Tank			
4D-4F-4G-4H Series	Approx. 20 Gal.	16.67 Gal.	75.60 Liters
Sportwagon	Approx. 23 Gal.	19.17 Gal.	86.94 Liters
Estate Wagon	Approx. 23 Gal.	19.17 Gal.	86.94 Liters
4L-4N-4P-4U-4V Series	Approx. 25 Gal.	20.83 Gal.	94.50 Liters
4Y Series	Approx. 24 Gal.	19.99 Gal.	90.72 Liters
Rear Axle			
4D-4F-4G-4H Series (U.S. Built)	4-1/4 Pts.	3-3/4 Pts.	2.25 Liters
4D-4F-4G-4H Series (Canadian Built)	4-1/4 Pts.	3-3/4 Pts.	2.25 Liters
4L-4N Series (350)	4-1/4 Pts.	3-3/4 Pts.	2.25 Liters
(455)	5-1/2 Pts.	5 Pts.	2.91 Liters
4L-4N-4R-4P-4U-4V Series	5-1/2 Pts.	5 Pts.	2.91 Liters
Transmission			
THM 350-375B	See Grp. 75		
THM 400	See Grp. 76		
3-Speed Manual	3-1/2 Pts.	3 Pts.	1.66 Liters
4-Speed Manual	3 Pts.	2-1/2 Pts.	1.43 Liters
Manual Steering Gear (All Series)	14 Oz.	14 Oz.	435.44 Grams
Power Steering (All Series)			
Hydraulic System	2-1/2 Pts.	2 Pts.	1.19 Liters

1972 LUBRICATION CHART - ALL MODELS

STEERING LINKAGE - LUBE (7)
-CL- 6,000 Mi. or 4 Mos.
Whichever Occurs First

DISTRIBUTOR CAM LUBRICATOR
Replace 12,000

ENGINE BELTS - Check Condition and
Proper Tension 6,000 Mi. or 4 Mos.

EVAPORATION CONTROL CANISTER FILTER
Replace filter on underside of canister every 12 months or 12,000 miles, whichever occurs first.

FUEL FILTER - Replace With Recommended
Element 12,000 or 12 Mos.
Whichever Occurs First

WINDSHIELD WASHER FLUID
Check Level Periodically

LOWER BALL JOINTS (2) - CL - 6,000 Miles
or 4 Mos. Whichever Occurs First

ENGINE OIL - Drain and Refill - EO - 4 Mos.
Never exceed 6,000 miles between changes.

STD. STEERING GEAR - Lubed for Life SG -
Used for refill after repair only

POWER STEERING RESERVOIR - Check
Fluid Level -PSF-
Whichever Occurs First 4 mos. or 6,000

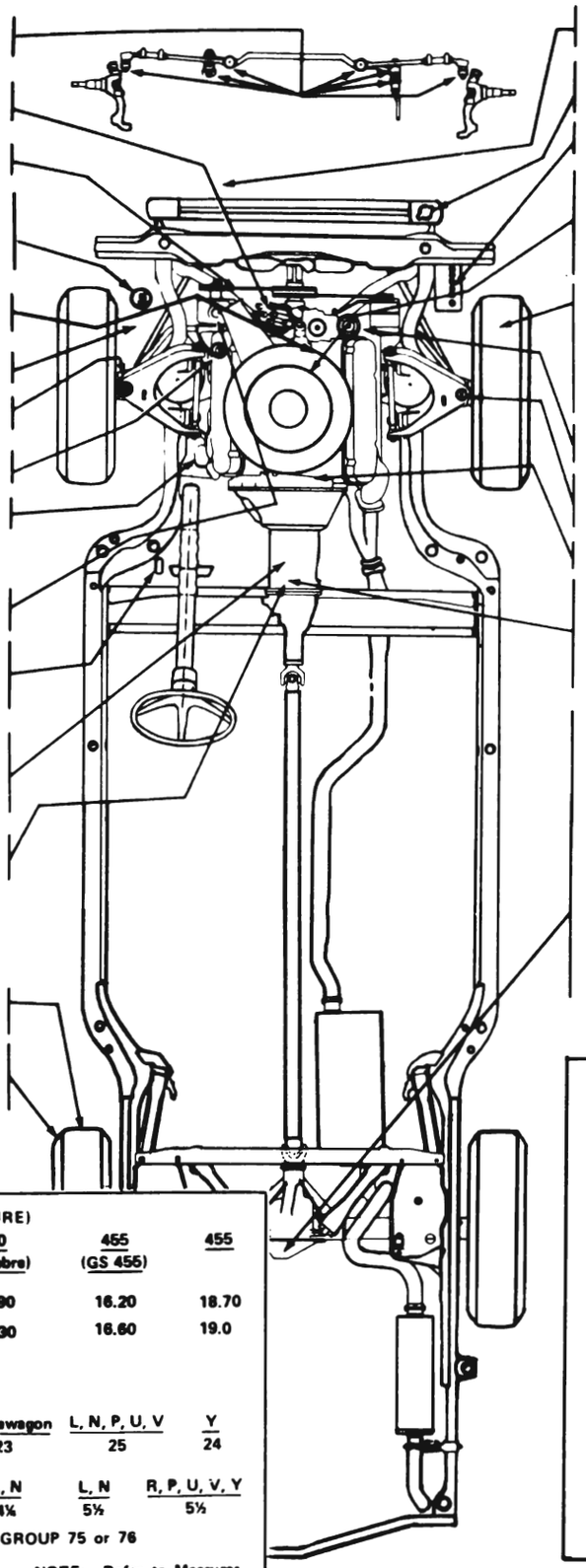
BRAKE MASTER CYLINDER -
Maintain Level 1/4" ± 1/8" Below
Top of Each Reservoir - HBF-
Whichever Occurs First 4 mos. or 6,000

MANUAL TRANSMISSION - Maintain at Filler
Opening - Flushing & Seasonal Changes NOT Recommended. M.P.G. - SAE - 80

CHECK CLUTCH LASH – (D, H, G, F Only)
Adjust if necessary 6,000

TIRES – Rotate
Maintain Pressure Periodically
Refer to Group 100 For
Correct Pressure 6,000

BRAKE MECHANISM - Apply at Starwheel
Point of Contact and Lightly to 6 Surfaces
on Which Shoe Rim Rests -BL- 12,000



AIR CONDITIONER - Functional Check
Once a Year

RADIATOR - Check Coolant level at each oil change.
Replace every 24,000 Miles or 24 Months

ENERGIZER (Battery) - Check Level Periodically

CRANKCASE VENTILATION ELEMENT AND AIR CLEANER ELEMENT - Inspect at each oil change - replace if necessary. Replace at least every 24,000 miles - more often under dusty conditions.

FRONT WHEEL BEARINGS - (Drum Type Brakes)
Inspect and lubricate with a high melting point wheel bearing grease when brakes are serviced.

FRONT WHEEL BEARINGS - (Disc Type Brakes)
Inspect and lubricate with a premium high melting point wheel bearing grease meeting GM SPEC 9048-P when brakes are serviced.

OIL FILTER ELEMENT - Replace With First Oil Change and Then at Alternate Oil Changes.

UPPER BALL JOINTS (2)
-CL- 6,000 Mi. or 4 Mos.
Whichever Occurs First

PCV VALVE - Replace 24,000 miles or 24 months.

TURBO HYDRAMATIC 350-375B
Clean Strainer at - 24,000 Normal
12,000 Heavy Duty

TURBO HYDRAMATIC 400
Replace Filter at - 24,000 Normal
12,000 Heavy Duty

STANDARD DIFFERENTIAL - REAR AXLE -
Maintain at filler opening to 3/8" below - Flushing & seasonal changes NOT recommended.
MPG - SAE - 80

For complete refill use only factory hypoid gear lubricant - Unless axle in service 1,000 miles or more. Then use MPG - SAE - 80.

POSITIVE TRACTION DIFFERENTIAL — Change lube every 12,000 miles (L, N, R, P, U, V, Y only). Maintain at filler opening to 3/8" below — Use TL - Special Lubricant - 725985.

If vehicle is used for trailering, drain and refill every 12,000 miles using lubricants recommended for standard and positive traction differentials.

CAPACITIES (U.S. MEASURE)

	350 (Except LeSabre)	350 (LeSabre)	455 (GS 455)	455
COOLING SYSTEM				
With Heater	16.45	18.90	16.20	18.70
With Air Conditioner	16.85	19.30	16.60	19.0
CRANKCASE (All Series)				
Refill – Qts.	4			
With Oil Filter Change	5			

GAS TANK (Gals.)	D, H, G	Sportwagon	Estatewagon	L, N, P, U, V	Y
Approx.	20	23	23	25	24

REAR AXLE (Pts.)	U. S. Built	Canada Built	L, N	L, N	R, P, U, V, Y
TRANSMISSION	4¼	4¼	4¼	5½	5½

Turbo Hydra-matic 350-375B — See Refill Procedure, GROUP 75 or 76
Turbo Hydra-matic 400
3-Speed Manual 3 1/2 Pts.
4-Speed Manual 3 Pts.
MANUAL STEERING GEAR 14 oz.
POWER STEERING RESERVOIR (All Series) 1¼ Qts.

NOTE: Refer to Measures Chart for Imperial & Metric Measures

LUBRICANTS

CL	Chassis Lubricant - Water Resistant Extreme Pressure EP No. 2 Multi-purpose Grease Which Meets G.M. Spec. 6031M
AT	DEXRON Automatic Transmission Fluid G.M. Part No. 725358-59-60 or Equivalent
EO	Engine Oil (Current Viscosity) SE*
HBF	Hydraulic Brake Fluid - Delco Super No. 11*
BL	Brake Lube, Self-adjusting Per Spec. M.P. 6805
MPG	Multi-Purpose Gear Lubricant GL-5
TL	Special Lubricant G.M. Part No. 725985
SG	Calcium Soap No. 2 Meeting GM Spec. 4673M. Do Not Use CL
PSF	Power Steering Gear Fluid G.M. Part No. 5723684

*Equivalent Acceptable if it Meets Specifications

00-75B

Figure 00-22 - Lubrication Chart - All Models

U.S., IMPERIAL AND METRIC MEASURE CHART

Cooling System	U.S. Measure	Imperial Measure	Metric Measure
350 Cu.In. (Except LeSabre)			
With Heater	16.45 Qts.	13.71 Qts.	15.57 Liters
With Air Conditioner	16.85 Qts.	14.04 Qts.	15.94 Liters
350 Cu.In. (LeSabre)			
With Heater	18.90 Qts.	15.75 Qts.	17.88 Liters
With Air Conditioner	19.30 Qts.	16.08 Qts.	18.26 Liters
455 Cu.In. (G.S.)			
With Heater	16.20 Qts.	13.50 Qts.	15.33 Liters
With Air Conditioner	16.60 Qts.	13.83 Qts.	15.71 Liters
455 Cu.In.			
With Heater	18.70 Qts.	15.58 Qts.	17.69 Liters
With Air Conditioner	19.0 Qts.	15.83 Qts.	17.98 Liters
Crankcase (All Series)			
Refill	4 Qts.	3.30 Qts.	3.78 Liters
With Oil Filter Change	5 Qts.	4.20 Qts.	4.73 Liters
Gasoline Tank			
4D-4F-4G-4H Series	Approx. 20 Gal.	16.67 Gal.	75.60 Liters
Sportwagon	Approx. 23 Gal.	19.17 Gal.	86.94 Liters
Estate Wagon	Approx. 23 Gal.	19.17 Gal.	86.94 Liters
4L-4N-4P-4U-4V Series	Approx. 25 Gal.	20.83 Gal.	94.50 Liters
4Y Series	Approx. 24 Gal.	19.99 Gal.	90.72 Liters
Rear Axle			
4D-4F-4G-4H Series (U.S. Built)	4-1/4 Pts.	3-3/4 Pts.	2.25 Liters
4D-4F-4G-4H Series (Canadian Built)	4-1/4 Pts.	3-3/4 Pts.	2.25 Liters
4L-4N Series (350)	4-1/4 Pts.	3-3/4 Pts.	2.25 Liters
(455)	5-1/2 Pts.	5 Pts.	2.91 Liters
4L-4N-4R-4P-4U-4V Series	5-1/2 Pts.	5 Pts.	2.91 Liters
Transmission			
THM 350-375B	See Grp. 7[illegible]		
THM 400	See Grp. 76		
3-Speed Manual	3-1/2 Pts.	3 Pts.	1.66 Liters
4-Speed Manual	3 Pts.	2-1/2 Pts.	1.43 Liters
Manual Steering Gear (All Series)	14 Oz.	14 Oz.	435.44 Grams
Power Steering (All Series)			
Hydraulic System	2-1/2 Pts.	2 Pts.	1.19 Liters

1972 LUBRICATION CHART - ALL MODELS

STEERING LINKAGE - LUBE (7)
-CL- 6,000 Mi. or 4 Mos.
Whichever Occurs First

DISTRIBUTOR CAM LUBRICATOR
Replace 12,000

ENGINE BELTS - Check Condition and Proper Tension 6,000 Mi. or 4 Mos.

EVAPORATION CONTROL CANISTER FILTER
Replace filter on underside of canister every 12 months or 12,000 miles, whichever occurs first.

FUEL FILTER - Replace With Recommended Element 12,000 or 12 Mos.
Whichever Occurs First

WINDSHIELD WASHER FLUID
Check Level Periodically

LOWER BALL JOINTS (2) - CL - 6,000 Miles or 4 Mos. Whichever Occurs First

ENGINE OIL - Drain and Refill - EO - 4 Mos.
Never exceed 6,000 miles between changes.

STD. STEERING GEAR - Lubed for Life SG - Used for refill after repair only

POWER STEERING RESERVOIR - Check Fluid Level -PSF-
Whichever Occurs First 4 mos. or 6,000

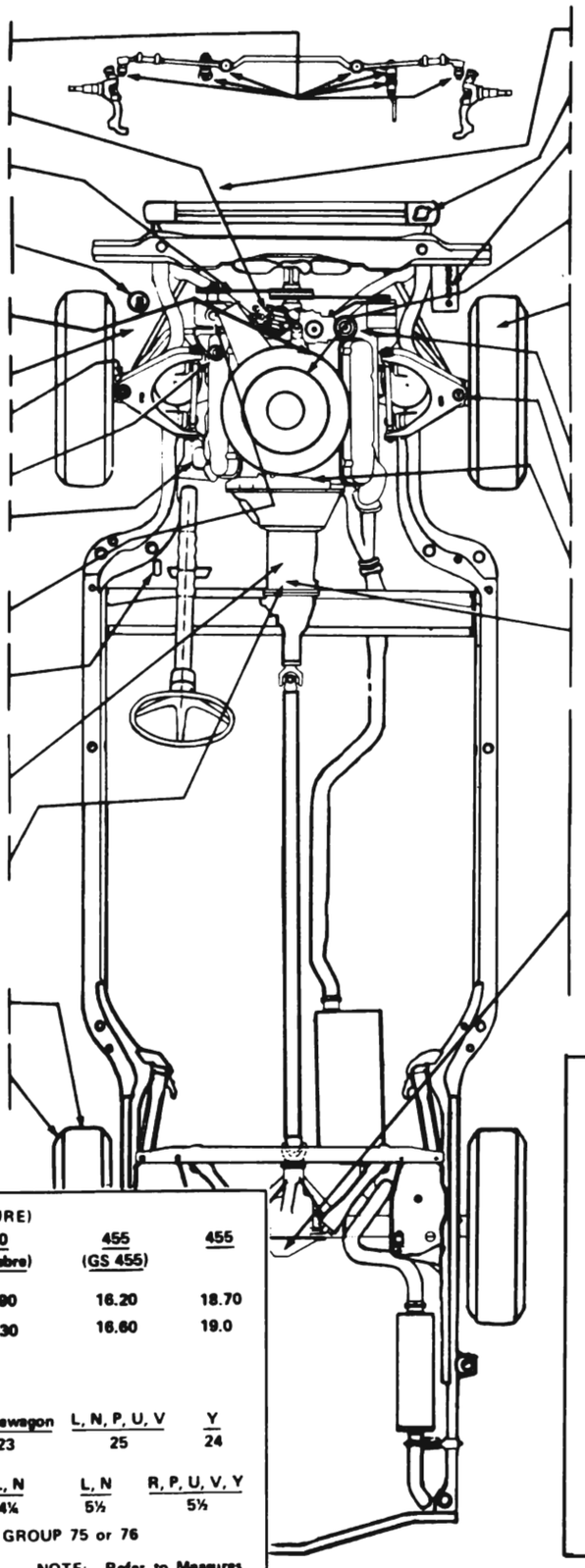
BRAKE MASTER CYLINDER - Maintain Level 1/4" ± 1/8" Below Top of Each Reservoir - HBF-
Whichever Occurs First 4 mos. or 6,000

MANUAL TRANSMISSION - Maintain at Filler Opening - Flushing & Seasonal Changes NOT Recommended. M.P.G. - SAE - 80

CHECK CLUTCH LASH – (D, H, G, F Only)
Adjust if necessary 6,000

TIRES – Rotate
Maintain Pressure Periodically
Refer to Group 100 For Correct Pressure 6,000

BRAKE MECHANISM - Apply at Starwheel Point of Contact and Lightly to 6 Surfaces on Which Shoe Rim Rests -BL- 12,000



AIR CONDITIONER - Functional Check Once a Year

RADIATOR - Check Coolant level at each oil change. Replace every 24,000 Miles or 24 Months

ENERGIZER (Battery) - Check Level Periodically

CRANKCASE VENTILATION ELEMENT AND AIR CLEANER ELEMENT - Inspect at each oil change - replace if necessary. Replace at least every 24,000 miles - more often under dusty conditions.

FRONT WHEEL BEARINGS - (Drum Type Brakes) Inspect and lubricate with a high melting point wheel bearing grease when brakes are serviced.

FRONT WHEEL BEARINGS - (Disc Type Brakes) Inspect and lubricate with a premium high melting point wheel bearing grease meeting GM SPEC 9048-P when brakes are serviced.

OIL FILTER ELEMENT - Replace With First Oil Change and Then at Alternate Oil Changes.

UPPER BALL JOINTS (2)
-CL- 6,000 Mi. or 4 Mos.
Whichever Occurs First

PCV VALVE - Replace 24,000 miles or 24 months.

TURBO HYDRAMATIC 350-375B
Clean Strainer at - 24,000 Normal
12,000 Heavy Duty

TURBO HYDRAMATIC 400
Replace Filter at - 24,000 Normal
12,000 Heavy Duty

STANDARD DIFFERENTIAL - REAR AXLE - Maintain at filler opening to 3/8" below - Flushing & seasonal changes NOT recommended.
MPG - SAE - 80

For complete refill use only factory hypoid gear lubricant - Unless axle in service 1,000 miles or more. Then use MPG - SAE - 80.

POSITIVE TRACTION DIFFERENTIAL — Change lube every 12,000 miles (L, N, R, P, U, V, Y only). Maintain at filler opening to 3/8" below — Use TL - Special Lubricant - 725985.

If vehicle is used for trailering, drain and refill every 12,000 miles using lubricants recommended for standard and positive traction differentials.

CAPACITIES (U.S. MEASURE)

	350 (Except LeSabre)	350 (LeSabre)	455 (GS 455)	455
COOLING SYSTEM				
With Heater	16.45	18.90	16.20	18.70
With Air Conditioner	16.85	19.30	16.60	19.0

CRANKCASE (All Series)	
Refill – Qts.	4
With Oil Filter Change	5

GAS TANK (Gals.)	D, H, G	Sportwagon	Estatewagon	L, N, P, U, V	Y
Approx.	20	23	23	25	24

REAR AXLE (Pts.)	U. S. Built	Canada Built	L, N	L, N	R, P, U, V, Y
TRANSMISSION	4¼	4¼	4¼	5½	5½

Turbo Hydra-matic 350-375B — See Refill Procedure, GROUP 75 or 76
Turbo Hydra-matic 400
3-Speed Manual 3 1/2 Pts.
4-Speed Manual 3 Pts.
MANUAL STEERING GEAR 14 oz.
POWER STEERING RESERVOIR (All Series) 1¼ Qts.

NOTE: Refer to Measures Chart for Imperial & Metric Measures

LUBRICANTS

CL	Chassis Lubricant - Water Resistant Extreme Pressure EP No. 2 Multi-purpose Grease Which Meets G.M. Spec. 6031M
AT	DEXRON Automatic Transmission Fluid G.M. Part No. 725358-59-60 or Equivalent
EO	Engine Oil (Current Viscosity) SE*
HBF	Hydraulic Brake Fluid - Delco Super No. 11*
BL	Brake Lube, Self-adjusting Per Spec. M.P. 6805
MPG	Multi-Purpose Gear Lubricant GL-5
TL	Special Lubricant G.M. Part No. 725985
SG	Calcium Soap No. 2 Meeting GM Spec. 4673M. Do Not Use CL
PSF	Power Steering Gear Fluid G.M. Part No. 5723684

*Equivalent Acceptable if it Meets Specifications

00-75B

Figure 00-22 - Lubrication Chart - All Models