THE REPORT OF RATE SHEAT LAND

SECTION B

MAINTENANCE AND LUBRICATION ALL SERIES

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DIVISION I SPECIFICATIONS AND ADJUSTMENTS

00-7 LUBRICATION CHARTS-1967 BUICK-ALL SERIES

Refer to pages 00-8 through 00-12 for Lubrication Charts.

DIVISION III

SERVICE PROCEDURES

00-8 MAINTENANCE RECOMMENDATIONS
—ALL SERIES

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 you use an oil which, according to the label on the can, is: (1) intended for service MS and (2) passes car makers' tests or meets General Motors Standard GM 4745-M. 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

Figure 00-5-Lubricotion CRBM - 43 & 44000 Series

temperature at which cold engine starting will be required as recommended in the temperature-viscosity chart on page 00-14. Oil level should be checked more frequently during the break-in

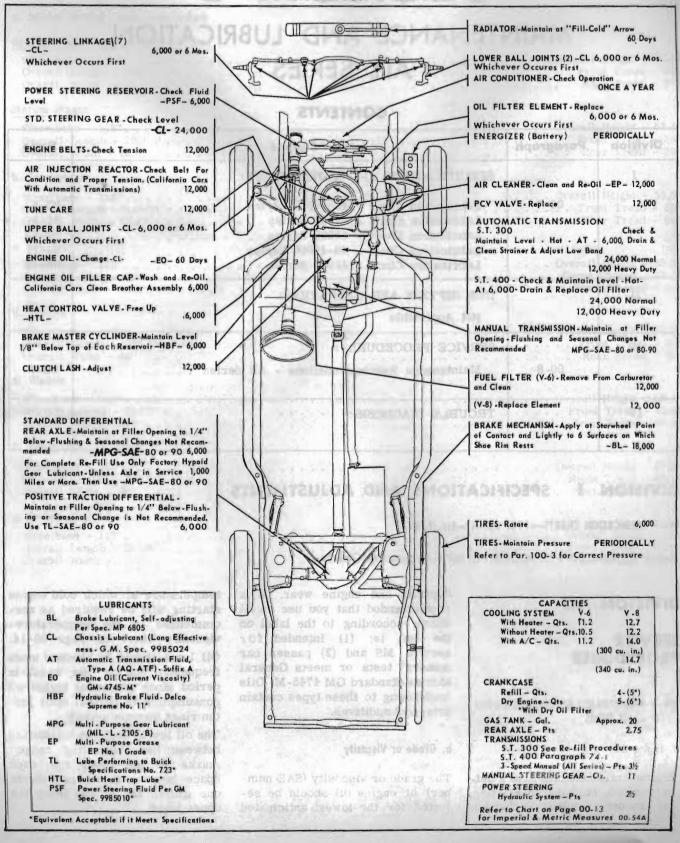
dilay or black. Their kine will G-1A E-80 or 90.

TANKE TO THE PERSON NOT THE WATER

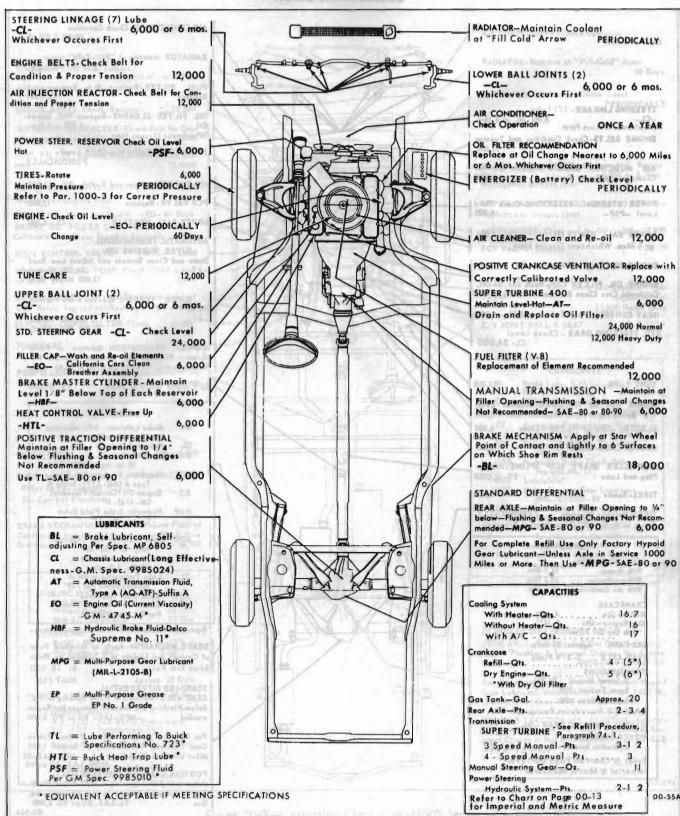
frequently during the break-in period since somewhat higher oil consumption is normal until piston rings become seated.

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

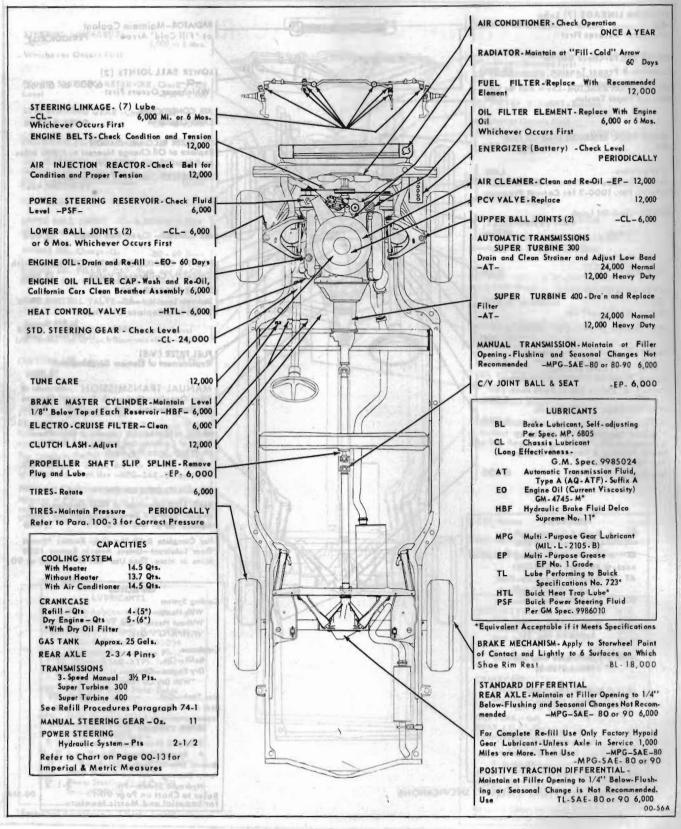
1967 43-44000 SPECIAL - SKYLARK - SPORTWAGON LUBRICATION CHART



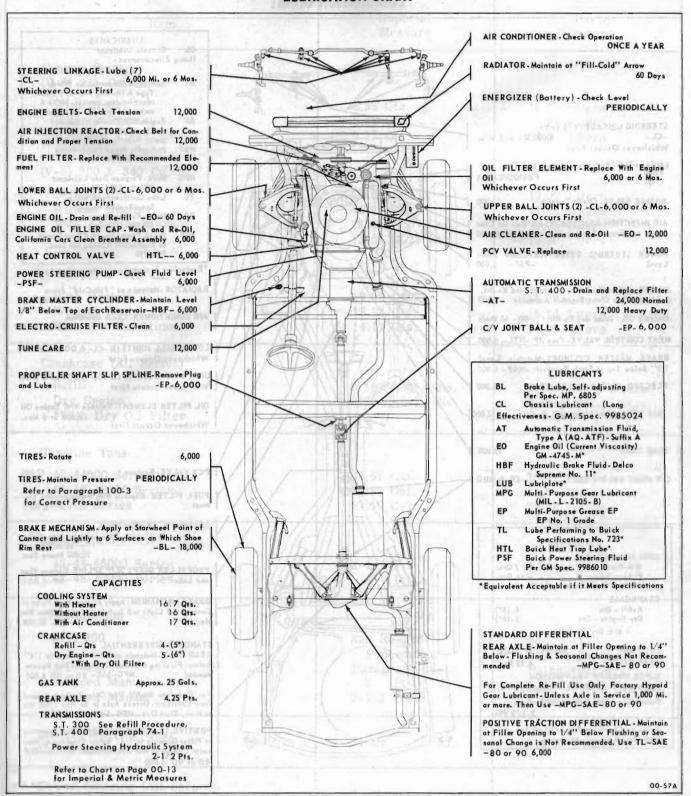
1967 44600 G. S. 400 LUBRICATION CHART



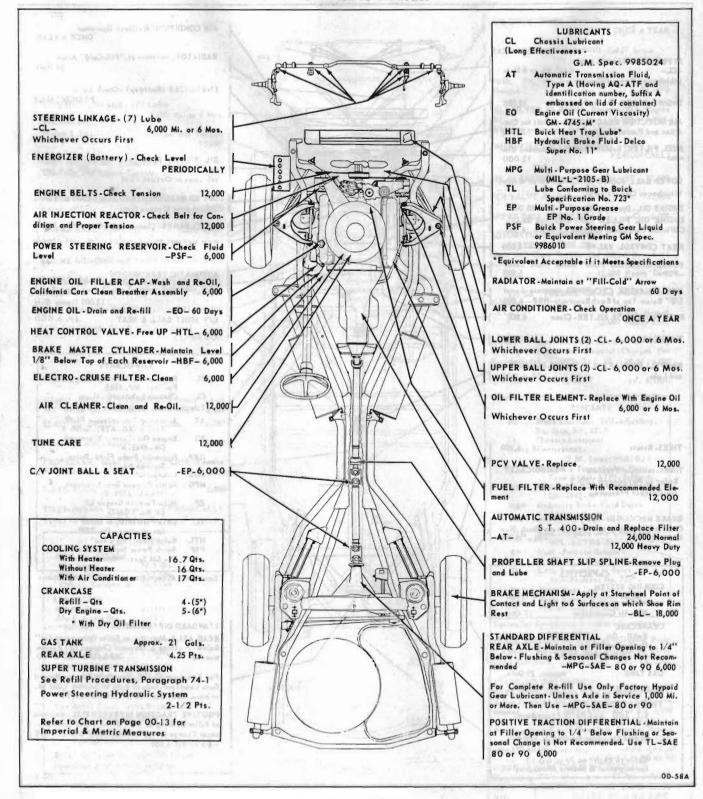
1967 45000 LE SABRE LUBRICATION CHART



1967 46-48000 WILDCAT - ELECTRA 225



1967 49000 RIVIERA Lubrication Chart



IMPERIAL AND METRIC MEASURE CHART

| Item | # 55 km a.e. | Imperial Measure | Metric Measure |
|--|--|--|--|
| Cooling System (V-6) 225 Cu. In. | ** 400 00 | SAE 10W-WI SAE 10W-WI EAE 5W-20 | |
| With Heater Without Heater With Air Conditioner | trocting, it extreme a by dust, | 9.33 Qts. | 10.6 Liters 9.94 Liters 11.6 Liters |
| (V-8) 300 & 340 Cu. In. | | ays. Your authorized Build | |
| With Heater Without Heater With Air Conditioner | and Winter OR the next set at long. | 10.58 Qts. 10.17 Qts. (300) 11.67 Qts. (340) 12.25 Qts. | 12.02 Liters |
| (V-8) 400 & 430 Cu. In. | -callen in | to a blunds up to the service of the | |
| With Heater Without Heater With Air Conditioner | d cy off rd- | 13.92 Qts. 13.32 Qts. 14.17 Qts. | Contract a parallel account of the |
| Crankcase (All Series) | | A DZ I Dobo w bod cya zacjal i na je | ALIGNATURE CONTRACTOR |
| Refill Dry Engine *With Dry Oil Filter | of Sebtem | 3.30-(4.20*) Qts. 4.20-(5.0*) Qts. | 3.78-(4.73*) Liters |
| Gasoline Tank | | ated under resurteta | Placestatic minute state of |
| 43-44000 Series 45-46-48000 Series 49000 Series | frankerensuch Tropistation | 16.67 Gal. 20.83 Gal. 17.50 Gal. | 75.60 Liters 94.50 Liters 79.38 Liters |
| Rear Axle | ed Jam str | Although HD Concent | 1 X = 1 X = 1 |
| 43-44-45000 Series 46-48-49000 Series | is cormally with every thoses, the | The state of the s | 1.30 Liters 2.18 Liters |
| Transmission | payind to be being a | to allegate and preside the | with anticommunication of the control of the contro |
| S.T. 400 S.T. 400 3-Speed Manual 4-Speed Manual | leve | See Re-Fill Procedures Paragraph 74-1 3 Pts. 2-1/2 Pts. | See Re-Fill Procedures Paragraph 74-1 1.66 Liters 1.425 Liters |
| Manual Steering Gear (All Series) | tress, vior - p bring lavel um of filler | 11 Oz. Hige of | |
| Power Steering (All Series) Hydraulic System | -13VO: TO | 2 Pts. 11023 513 | 1.19 Liters |

c. Engine Oil Change and Viscosity Recommendations

| Anticipated Lowest Temperatures | Use SAE Viscosity Number | Change Your Oil at Least |
|------------------------------------|-----------------------------|-----------------------------|
| Above Freezing (+32°F.) | SAE 10W-30 SAE 20W | Every 60 days** |
| Below Freezing (+32°F. to 0°F.) | SAE 10W SAE 10W-30 | Every 60 days** |
| Below 0°F.* | SAE 5W-20 SAE 5W | Every 60 days** |

*SAE 5W-30 oil may be used at temperatures below freezing.

**Never exceed 6,000 miles between oil changes. During extreme driving conditions which produce oil contamination by dust, water, or other foreign material, the oil should be changed more frequently than every 60 days. Your authorized Buick dealer is well qualified to advise you.

NOTE: When changing the oil during the Fall and Winter

NOTE: When changing the oil during the Fall and Winter seasons, consider the lowest anticipated temperature for the next

SAE 5W oil is not recommended for sustained high speed driving.
SAE 30 oil may be used when the prevailing daylight temperature is above 90°F.

d. Oil Color

00-14

The color of "Service MS" 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.

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. Use of Buick HD Concentrate

Buick HD Concentrate, available through Buick Parts Department

under Group 1.850 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 as sticking valves. valve lifters and rings are noticed.

Although HD Concentrate 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.

g. 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.

CAUTION: DO NOT OVER-FILL.



Figure 00-10-Engine Oil Gauge Rod

2. Tires

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

3. Oil Filler Cap

Check periodically for signs of dirt and other accumulations in filter portion of cap. Clean as often as necessary. This can be done by quickly washing in a suitable solvent and dipping in engine oil.

4. Radiator Coolant

Radiator coolant level should be checked when the engine is cold if possible. If the radiator cap is removed when the system is at operating temperature, normal the coolant will boil and spurt out due to the release of pressure. Coolant lost in this manner must be replaced. If coolant should be needed, fill radiator to tip of "Fill Cold" arrow stamped on inside of filler neck. Do not overfill as loss of coolant due to expansion will result. For correct radiator coolant see Page 00-19.

5. 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 00-10.

h. Maintenance Recommendations— Every 6,000 Miles

1. Engine Oil Change

Drain and refill engine crankcase every 60 days or 6,000 miles - whichever occurs first. See subparagraph c for oil recommendations.

2. Engine Oil Filter Change

Replace engine oil filter with the engine oil change which comes nearest 6,000 miles or 6 months - whichever occurs first.

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 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. Oil Filler Cap

Remove oil filler cap, wash in suitable solvent, dry and dip in engine oil. Allow to drain while performing remainder of 6,000 mile check. Just before installation, dip again in engine oil, allow to drain, and reinstall.

4. Front Suspension and Steering Linkage

The front suspension and steering linkage has been lubricated with a long-effectiveness lubricant at the factory and should be re-lubricated with a long-effectiveness lubricant equivalent to General Motors Specification 9985024 every 6,000 miles or six months whichever occurs first.

NOTE: If lubricants not intended for long-effectiveness application are used, the lubri-

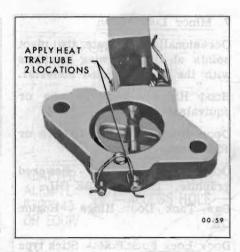


Figure 00–11—Lubricating Points on Manifold Heat Control Valve – 225, 300 and 340 Cu. In. Engine

cation 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)

5. Manifold Heat Valve

Place a few drops of "Buick Heat Trap Lube" or equivalent on each end of shaft, and free up if required. See Figure 00-11, or 00-12.



Figure 00-12—Lubricating Points on Manifold Heat Control Valve – 400 and 430 Cu. In. Engine

6. Check Fluid Level

Brake Master Cylinder

All models are equipped with dual master cylinders. Maintain fluid level 1/8" below top of each filler opening. When adding brake fluid, use Delco Supreme #11 hydraulic brake fluid or equivalent. Never use reclaimed fluid, mineral oil, or fluid inferior to SAE Standard 70-R-3.

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 SAE80 or 80-90 multipurpose gear lubricant.

NOTE: Draining and flushing transmission is not required.

Automatic Transmission

IMPORTANT: Refer to Paragraph 74-1, subparagraph c for correct refill procedures.



Figure 00-13—Automatic Transmission
Oil Gauge Rod

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 meeting GM Specification 9985010.

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 1/4" below filler plug opening by adding SAE 80 or 90 Multi-Purpose Gear Lubricant.

NOTE: Draining and flushing are not recommended. When complete refilling is necessary, SAE 80 or 90 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.

Positive Traction Differential Rear Axle

Identified by a stainless steel plate attached by a rear cover bolt stating "Use limited slip differential lube only" and by an X enclosed in a circle stamped on the bottom of the right axle tube. See Figure 00-14. Check lubricant level after allowing time for lubricant to settle. Level should be maintained not lower than 1/4" below filler plug opening by adding SAE 80 or 90 lubricant.

NOTE: If Positive Traction Differential lube becomes contaminated, the axle assembly may be flushed with engine oil. Refer to Group 40 for complete flushing and refill procedures.

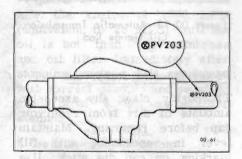


Figure 00-14—Positive Traction Identification

7. Minor Lubrication

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

Hood Hinge - Lubriplate or equivalent

Door Hinges - Lubriplate or equivalent

Door Lock Cylinders - Powered 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 Strider - 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.

NOTE: Do not allow brake fluid to come in contact with any painted or trimmed parts of the body.

NOTE: Do not lubricate carburetor or throttle linkage.

8. Body Rubber Parts

Door, hood, and rear compartment rubber weatherstrips may be kept pliable and quiet by the application of a light coat of Buick

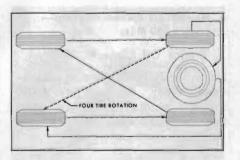


Figure 00-15-Tire Rotation Method

4-X Compound or suitable silicone lubricant equivalent.

9. Tires

For best tire mileage, switch tires as recommended in Figure 00-15.

10. Electro-Cruise (45-46-48-49000 Series)

Remove Electro-Cruise air filter element by removing the metal cap (45-46-48000 Series) or rubber boot (49000 Series) and bending back the four tabs on the power unit and removing the outer screen, element, and inner screen. See Figure 00-16 or 00-17.

Clean screens and element in a suitable solvent. Squeeze solvent out of element.

NOTE: Do not oil element.

Reinstall inner screen, element, and outer screen; retain with tabs and install cover.

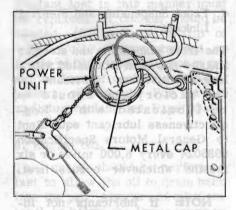


Figure 00-16—Electro-Cruise Air Cleaner (45-46-48000 Series)

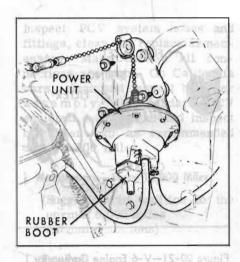


Figure 00-17—Electro-Cruise Air Cleaner (49000 Series)

11. Constant Velocity Universal Joint Centering Ball (45-46-48-49000 Series)

Rotate propeller shaft until fitting is visible through frame tunnel (49000) excessible on 45-46-48000 Series. Insert special grease gun adapter to bear solidly against fitting. One or two shots of grease is sufficient. See Figure 00-18 or 00-21. On the 49000 Series lubricate rear constant velocity Universal joint.

NOTE: Multi-Purpose Grease EP#1 grade is the only lubricant applicable at this point.

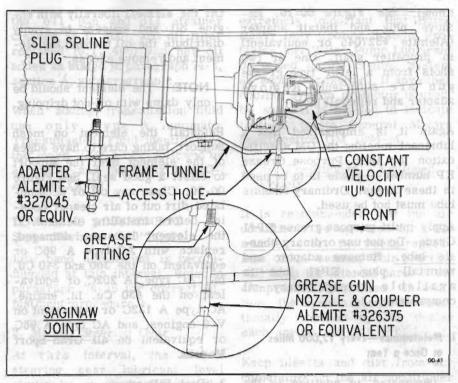
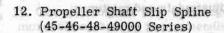


Figure 00-19-Propeller Shaft Lubrication Points (49000 Series)

DO NOT USE ORDINARY CHASSIS LUBE. EP#1 lube is available through most oil companies.

On the 49000 series lubricating the constant velocity joint on certain hoists such as the frame contact type can be difficult as they allow the axle to drop and thus move the CV joint grease fitting away from the access hole. To correct either the axle must be raised or the propeller shaft disconnected from the rear companion flange. CAUTION: Reassembly of the propeller shaft should carefully be done as instructed in Group 40.



45-46-48000

Rotate propeller shaft so plug in propeller shaft is accessible through hole in center bearing support. See Figure 00-18. Remove plug and insert adaptor (J-22513) with rubber cap attached. One or two shots from a lever type grease gun are sufficient. Remove adaptor and reinstall plug.

against the possibility of 00004

Rotate propeller shaft so plug in propeller shaft is accessible through front hole in frame

mended under 12 UNI miles.

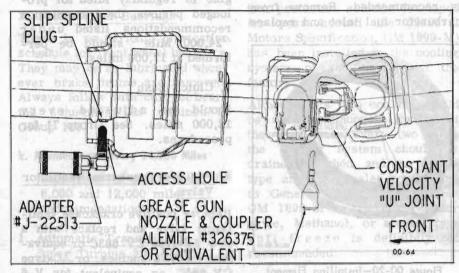


Figure 00-18-Propeller Shaft Lubrication Points (45-56-48000 Series)

tunnel. See Figure 00-19. Remove plug and install adapter (Alemite #327045 or equivalent) in propeller shaft. One or two shots from a lever type grease gun are sufficient. Remove adapter and reinstall plug.

Again it is emphasized that a lubricant meeting the GM specification for Multi-Purpose Grease EP number 1 grade is to be used in these areas. Ordinary chassis lube must not be used.

Apply multi-purpose grease EP#1 Grade. Do not use ordinary chassis lube. Remove adapter and reinstall plug. EP#1 lube is a vailable through many oil companies.

i. Maintenance—Every 12,000 Miles or Once a Year

(Suggested in addition to the 6.000 mile recommendation)

1. Tune Care

Tune care includes: clean and/or replace spark plugs and ignition points, check compression, battery, cranking system, charging system, fuel pump, choke, hose connections, belts, carburetor, adjust engine timing and idle speed. Refer to Group 69 for further detail and specifications, adjustments and mixtures.

2. Engine Air Cleaner

It is recommended that the air cleaner be serviced every 12,000 miles. If car is operated in dusty territory, check condition of air cleaner element more frequently and clean if dirty.

To clean, carefully remove the element from the mesh support, wash in kerosene and squeeze out.

CAUTION: Take precautions against the possibility of fire. Do not wring the element or it may be torn. Wrap the element in a dry cloth and squeeze to remove all possible solvent.

Oil the element liberally with engine oil and squeeze to evenly distribute the oil through the element and remove excess.

NOTE: The element should be only damp with oil not dripping.

Reinstall the element on mesh support, taking care to have edges of the element over the support to effect a good seal. See Figure 00-20. Clean any oil or accumulated dirt out of air cleaner housing before installing element. If the element becomes damaged. replace with AC-type A 96C or equivalent on the 300 and 340 Cu. In., AC type, A 202C or equivalent on the 430 Cu. In. engine. AC type A 132C or equivalent on V-6 engines, and AC type A 96C or equivalent on all Gran Sport Models.

3. Fuel Filters

V-6

Remove from carburetor fuel inlet, inspect, clean, or replace if necessary. More frequent servicing may be necessary if contaminants have entered the fuel system.

V-8 All

Replacement of disposable filter is recommended. Remove from carburetor fuel inlet and replace

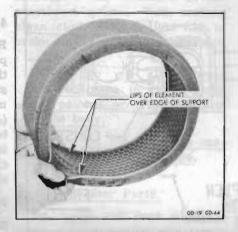


Figure 00-20—Installing Element on Support

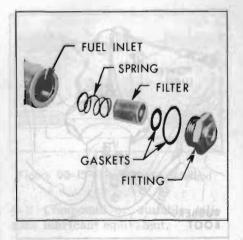


Figure 00–21—V–6 Engine Carburetor

with filler type GF-427 or equivalent. More frequent servicing may be necessary if contaminents have entered the fuel system.

4. Belts

Inspect engine driven belts for condition and proper tension.

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5. Wheel Alignment and Balance Refer to Group 30.

6. Super Turbine 300 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.

7. Clutch Lash

Should be adjusted every 12,000 miles. See Group 71 for procedures.

8. Positive Crankcase Ventilator Valve

Remove positive crankcase ventilation valve and replace with a new AC-type CV-683C or equivalent for V-8 engines, or AC-type CV-684C or equivalent for V-6 engines.

Inspect PCV system hoses and fittings, clean and replace as necessary. Make certain all connections are tight. On California cars, clean and inspect breather assembly. On standard PCV equipped cars, clean and inspect oil filler cap as recommended under 6,000 miles.

j. Maintenance-Every 18,000 Miles

(Suggested in addition to the normal 6,000 miles recommendations)

1. 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. Lubricate self-adjusting mechanism adjusting screw with Delco Moraine Special Brake Lubricant or equivalent.

2. Front Wheel Bearings

There is no periodic lubrication schedule for front wheel bearings. They may be re-lubricated whenever brake drums are removed. Always follow with correct bearing adjustment as outlined in Group 100.

k. Maintenance—Every 24,000 Miles

(Suggested in addition to the 6,000 and 12,000 mile recommendations)

1. Automatic Transmission-Super Turbine 300 & 400

At this interval the automatic transmission should be drained,

the oil pan and oil strainer cleaned (S.T. 300), and oil filter replaced (S.T. 400) and new oil added as stated in paragraph 74-1, section A, subparagraph c.

When adding transmission fluid use only Type A Automatic Transmission Fluid identified by the mark "AQ-ATF" followed by a number and the Suffix A. (AQ-ATF-XXXX-A)

LOW BAND ADJUSTMENT - Super Turbine "300" Only

Low band adjustment is recommended at this interval. Refer to paragraph 74-25 for correct adjustment procedure.

2. Manual Steering Gear

At this interval, the manual steering gear lubricant level should be checked. Remove the bolt on gear cover marked "Lube". Add chassis lubricant conforming to GM Specification 9985024 as necessary.

I. Maintenance—Seasonal (Cooling System and Air Conditioner Services)

1. Anti-Freeze

A permanent glycol type corrosion and anti-freeze cooling system protection solution developed for year around use (General Motors Specification, GM 1899-M) has been installed in the cooling system of the vehicle at the factory.

Although this type coolant should be used continuously throughout the year, once every two years the cooling system should be drained, flushed and permanent type anti-freeze also conforming to General Motors Specification GM 1899-M installed. 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 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 General Motors Specification GM 1894-M.

2. Air Conditioner - Equipped Models

It is recommended that the air conditioner be operated for a few minutes every two weeks regardless of the season. This practice will keep the internal parts of the compressor lubricated. In addition, the system should be functionally checked by the dealer each spring and fall.

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

m. 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. Oil Filler Cap Check for presence of dust and dirt each time car is refueled. Wash and re-oil if necessary.
- 4. Air Cleaner Element If oil filler cap is dirty, also remove air cleaner cover and inspect element. If dirty, clean as recommended under 12,000 miles.

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i. Maintenance—fracy 18,000 MHes (Suggested in addition to the normal 6,000 miles

recommandations)

Figure 00-21-4-5 Engine Challandly, I

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