

GENERAL LUBRICATION

TEMPEST

CONTENTS OF THIS SECTION

SUBJECT	PAGE	SUBJECT	PAGE
Engine Oil	2-1	Air Conditioning	2-3
Lubrication	2-1	Service Yearly or 12,000 Miles	
Service Every 6,000 Miles		Crankcase Inlet Vent	2-3
Manifold Heat Control Valve	2-2	Positive Crankcase Vent	2-3
Power Steering	2-2	Heavy Duty Air Cleaner	2-3
Differential Standard	2-2	Fuel Filter	2-3
Differential Safe-T-Track	2-2	Chassis Lubrication	2-3
Steering Gear - Manual	2-2	Service Two Years or 24,000 Miles	
Synchro-Mesh Transmission	2-2	Automatic Transmission	2-3
Clutch Linkage	2-2	Service Special Intervals	
Synchro-Mesh Linkage	2-2	Parking Brake Cable	2-4
Tires	2-2	Speedometer Cable	2-4
Brake System	2-2	Front Wheel Bearings	2-4
Service Six Months or 6,000 Miles		Body Door Locks and Strikers	2-4
Oil Filter	2-2	Door Hinge Hold-Opens	2-4
Standard Air Cleaner	2-2	Body Door Hinge Pins	2-4
Hood Latch Assembly	2-3	Station Wagon Tail Gate	2-4
Hood Hinges	2-3	Station Wagon Folding Seat	2-4
Service Six Months or 12,000 Miles		Fuel Door Hinge	2-4
Accelerator Linkage	2-3	Battery	2-4
T.V. Linkage	2-3	Air Conditioning	2-4
Automatic Transmission Linkage	2-3		

ENGINE OIL CHANGE

The crankcase of the Pontiac Tempest is filled at the factory with high quality MS oil, specially compounded to ensure proper lubrication of all engine parts during break-in. This oil should be changed after 60 days. Succeeding oil changes should also be made at 60 day intervals, but never to exceed 6,000 miles.

NOTE: The 1964 Pontiac Tempest is equipped with specially engineered chromium plated piston rings. These rings allow oil to flow freely on the cylinder walls during the break-in period. Therefore oil consumption may be higher during the break-in period than it will be afterward.

Oil which according to the label on the can is intended for service MS, DG, or HD should be used.

Atmospheric Temperature Expected	Recommended SAE Viscosity Number	Acceptable Alternate
Above Freezing (+32° and above)	20W	10W-30
Below Freezing (0° to +32°F.)	10W	10W-30
Below 0°F.	5W	5W-20

LUBRICATION

All Pontiac Tempests are thoroughly and completely lubricated at the factory with a special long lasting chassis lubricant. Under normal conditions chassis lubrication will not be required for 12,000 miles or one year whichever occurs first. For additional extended chassis lubrication periods, special grease part No. 1474829 is recommended. This grease has been specially formulated for your new car, and is available at Pontiac dealers. If conventional chassis lubricant is used, relubrication at 6 months or 6,000 miles, whichever occurs first, is necessary.

1964 PONTIAC TEMPEST ITEMS REQUIRING LUBRICATION OR SERVICE AT 6,000 MILE INTERVALS

Manifold Heat Control Valve	Observe for freedom of movement—Lubricate with graphite in alcohol if sticky.
Power Steering System and Pump Reservoir	Add fluid as necessary — Fill reservoir only to mark. Use power steering fluid, part Number 9771864. Replace fluid only if necessary to disassemble.
Differential Standard	Check for leaks. Refill with hypoid lubricant SAE 90. Change lubricant only when necessary to disassemble.
Differential Safe-T-Track	Check for leaks. Use only Part No. 531536 lubricant.
Manual Steering Gear	Add lubricant as necessary. Change lubricant only when necessary to disassemble. Use all-season steering gear lubricant.
Synchro-Mesh Transmission	Check for leaks. Use multi-purpose SAE 90 lubricant. Change lubricant only when necessary to disassemble.
Clutch-Linkage	Check lash and adjust as required at pre-delivery inspection and every 6,000 miles. Engine oil at pivot points, grease at push rod to clutch fork joint, chassis grease at cross shaft pressure fitting.
Synchro-Mesh Transmission Shift Linkage, Column Shift	Engine oil at all joints below steering column shift levers.
Synchro-Mesh Transmission Shift Linkage, Floor Shift	Engine oil at all joints under body.
Tires	Rotate tires every 6,000 miles, and balance in new position.
Brake System and Master Cylinder Reservoir	Check system for adequate brake pedal reserve and for evidence of leaks, correct, use GM or Delco Super II or any SAE 70R1 Brake Fluid.

1964 PONTIAC TEMPEST ITEMS REQUIRING LUBRICATION OR SERVICE AT 6 MONTHS OR 6,000 MILE INTERVALS, WHICHEVER OCCURS FIRST

Engine Oil Filter	Replace oil filter every 6 months or 6,000 miles, whichever occurs first.
Standard Carburetor Air Cleaner Element	Clean and re-oil using engine oil. Clean and re-oil after each occasion of driving under severe dust conditions.

NOTE: Heavy-duty type recommended for continuous operating under severe dust conditions.

Hood Latch Assembly	Engine oil on pivots and spring anchor points, light grease on release pawl, every 6 months and as required.
Hood Hinges	Engine oil on hinge pins and spring anchor points every six months and as required.

**1964 PONTIAC TEMPEST ITEMS REQUIRING LUBRICATION OR SERVICE AT SIX MONTHS
OR 12,000 MILE INTERVALS, WHICHEVER OCCURS FIRST**

Accelerator Linkage	Engine oil at all pivot points. Do not lubricate the linkage which is a part of the carburetor assembly.
T. V. Linkage	Engine oil, do not lubricate carburetor linkage.
Automatic Transmission Shift Linkage	Lubricate with engine oil at all joints below steering column except rubber grommets.
Air conditioning	Check refrigeration system sight glass for proper quantity of Freon charge (with engine running, A.C. turned on, and over 70° ambient air temperature). A clear glass indicates a solid column of Freon in a system which is operating properly.

**1964 PONTIAC TEMPEST ITEMS REQUIRING LUBRICATION OR SERVICE YEARLY
OR 12,000 MILES, WHICHEVER OCCURS FIRST**

Crankcase Inlet Vent and Oil Filler Cap	Clean and re-oil with engine oil. <i>NOTE: Clean and re-oil after each occasion of driving under severe dust conditions.</i>
Positive Crankcase Vent	Replace valve assembly yearly or every 12,000 miles, whichever occurs first.
Heavy Duty Air Cleaner	Wash element in solvent and re-oil with 10W-30 engine oil. <i>NOTE: Clean and re-oil after each occasion of driving under severe dust conditions.</i>
Fuel Filter — Integral	Clean yearly.
Chassis Lubrication	For additional extended chassis lubrication periods, Special Pontiac Chassis Grease Part No. 1474829 is recommended. This grease has been specially formulated for your new car, and is available at Pontiac dealers. If conventional chassis lubricant is used, relubrication at six months or 6,000 miles is necessary.

**1964 PONTIAC TEMPEST ITEMS REQUIRING LUBRICATION OR SERVICE EVERY TWO YEARS
OR 24,000 MILES, WHICHEVER OCCURS FIRST**

Automatic Transmission	Replace transmission oil. Refill with Hydra-Matic Fluid AQ-ATF, Type "A". Under heavy duty operation conditions or excessive stop and go driving replace transmission oil at 12,000 mile intervals.
----------------------------------	---

1964 PONTIAC TEMPEST ITEMS REQUIRING LUBRICATION OR SERVICE AT SPECIAL INTERVALS

Parking Brake Cable	Clean and relubricate at time rear brake drums are removed for major brake service — Use light grease.
Speedometer Cable	If noise or needle flicker occurs — lubricate — use speedo cable grease.
Front Wheel Bearings	Lubricate only when wheels are off for other service — Use special hi-temperature wheel bearing grease, use only enough lubricant to thoroughly coat the rollers, do not fill the wheel hub cavity.
Body Door Locks and Strikers	Stick type lubricant, use sparingly as required.
Door Hinge Hold-Opens	Light grease on friction surfaces — Use sparingly as required.
Body Door Hinge Pins	Engine oil as required.
Station Wagon Tail Gate Hinge and Linkage	Engine oil as required.
Station Wagon Folding Seat	Engine oil on pivots (use sparingly as required).
Fuel Door Hinge	Engine oil on hinge pin and spring anchor points as required.
Battery	Add distilled water every 30 days. May require more frequent additions during high ambient temperatures and/or extended trip operation. Clean terminals yearly and apply petrolatum.
Air Conditioning	Operate air conditioning system for a minimum of 5 minutes every month, even in winter. This will supply oil to the compressor shaft seal.
Air Conditioning Condenser Core	Clean off leaves, bugs, etc. and flush outside of condenser and radiator core to remove dirt — yearly and each spring.

CAUTION: Do not use steam.