

## GENERAL LUBRICATION

### CONTENTS OF THIS SECTION

SUBJECT	PAGE	SUBJECT	PAGE
Lubrication . . . . .	2-1	Fuel Filter . . . . .	2-3
Engine Oil Change . . . . .	2-1	Heavy-Duty Air Cleaner, Paper Element . . . . .	2-3
Service Two Months or 6,000 Miles		Crankcase Inlet Vent . . . . .	2-3
Engine Oil . . . . .	2-2	Heavy-Duty Air Cleaner . . . . .	2-3
Positive Crankcase Ventilation System . . . . .	2-2	Fuel Filter - Integral . . . . .	2-3
Battery . . . . .	2-2	Chassis Lubrication . . . . .	2-4
Air Conditioning . . . . .	2-2	Service Every Two Years or 24,000 Miles	
Service Six Months or 6,000 Miles		Automatic Transmission . . . . .	2-4
Manifold Heat Control Valve . . . . .	2-2	Service at Special Intervals	
Power Steering . . . . .	2-2	Parking Brake Cables . . . . .	2-4
Differential Standard . . . . .	2-2	Speedometer Cable . . . . .	2-4
Differential-Safe-T-Track . . . . .	2-2	Front Wheel Bearings . . . . .	2-4
Manual Steering Gear . . . . .	2-2	Body Door Locks and Strikers . . . . .	2-4
Synchro-Mesh Transmission . . . . .	2-2	Door Hinge Hold-Opens . . . . .	2-4
Clutch-Linkage . . . . .	2-2	Body Door Hinge Pins . . . . .	2-4
Synchro-Mesh Linkage . . . . .	2-2	Station Wagon Tail Gate Hinge and Linkage . . . . .	2-4
Tires . . . . .	2-2	Station Wagon Folding Seat	
Brake System . . . . .	2-2	Fuel Door Hinge . . . . .	2-4
Engine Oil Filter . . . . .	2-3	Rear Compartment Lid Hinges . . . . .	2-4
Standard Carburetor . . . . .	2-3	Convertible Front Door-to-Lock Wedge Plates . . . . .	2-4
Hood Latch Assembly . . . . .	2-3	Fan and Accessory Belts . . . . .	2-4
Hood Hinges . . . . .	2-3	Windshield Washer Solvent . . . . .	2-4
Accelerator Linkage . . . . .	2-3		
Automatic Transmission . . . . .	2-3		
Service Six Months or 12,000 Miles	2-3		
Crankcase Ventilation . . . . .	2-3		

### LUBRICATION

All Pontiac Tempests are thoroughly and completely lubricated at the factory with a special long-lasting chassis grease and under normal conditions chassis lubrication will not be required for 12,000 miles or one year, whichever occurs first. For additional chassis lubrication periods, the specially formulated grease is recommended and is available at Pontiac dealers.

*NOTE: If conventional chassis lubricant is used, relubrication at 6 months or 6,000 miles, whichever occurs first, is necessary.*

### ENGINE OIL CHANGE

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

*NOTE: The 1965 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

### PONTIAC TEMPEST ITEMS REQUIRING LUBRICATION OR SERVICE AT 2 MONTHS OR 6,000-MILE INTERVALS

Engine Oil . . . . .	Change.
Positive Crankcase Ventilation System . . . . .	Check operation.
Battery . . . . .	Check fluid level - Replenish as necessary.
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 temp.). A clear glass indicates a solid column of freon in a system which is operating properly. Pontiac equipped with Automatic Temperature Control should be set at minimum temperature when checking refrigeration system, to ensure that unit is operating in the air conditioning mode.

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

Manifold Heat Control Valve . . . . .	Observe for freedom of movement. Lubricate with graphite in alcohol if sticking.
Power Steering System and Pump Reservoir . . . . .	Maintain lubricant level with GM power steering fluid, Part No. 1050017. If this lubricant is not available, use automatic transmission fluid, type A, AQ-ATF suffix A.
Differential Standard . . . . .	Check for leaks, maintain lubricant level with SAE-80 oil where available, or SAE-90 Multi-Purpose gear lubricant meeting requirements of MIL-L-2105B.
Differential Safe-T-Track . . . . .	Check for leaks. Refill with Part No. 1050081 lubricant only. Change lubricant only when necessary to disassemble.
Manual Steering Gear . . . . .	Add lubricant as necessary. Change lubricant only when necessary to disassemble. Use water-resistant EP chassis grease to level of filler plug hole.
Synchro-Mesh Transmission . . . . .	Check for leaks. Maintain lubricant level with SAE-80 where available, or SAE-90 Multi-Purpose gear lubricant meeting requirements of MIL-L-2105B.
Clutch-Linkage . . . . .	Check lash and adjust as required at pre-delivery inspection and every 6,000 miles. Engine oil at pivot points, chassis 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 . . . . .	Check system for adequate brake pedal reserve and for evidence of leakage. Correct. Use Delco Supreme II Fluid or any SAE 70R1 fluid.

Engine Oil Filter . . . . .	Replace oil filter element.
Standard Carburetor Air Cleaner Element . . . . .	Clean and re-oil. Use engine oil. Clean and re-oil after each occasion of driving under severe dust conditions.  <i>NOTE: Heavy-duty type recommended for continuous operation under severe dust conditions.</i>
Hood Latch Assembly . . . . .	Engine oil on pivots and spring anchor points, and light grease on release pawl, every six months or as required.
Hood Hinges . . . . .	Engine oil on hinge pins and spring anchor points, every six months or as required.
Accelerator Linkage . . . . .	Engine oil at all pivot points. Do not lubricate the linkage which is a part of the carburetor assembly.
Automatic Transmission Shift Linkage . . . . .	Lubricate with engine oil at all joints below steering column except rubber grommets. Pontiac console cable must not be lubricated.

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

Positive Crankcase Ventilation Regular System . . . . .	Replace valve assembly.
Positive Crankcase Ventilation Closed System . . . . .	Check hose between valve cover and intake manifold for clear passages; replace if clogged. Clean and re-oil ventilation filter in air cleaner.  <i>NOTE: This filter should be cleaned and re-oiled after each occasion of driving under severe dust conditions.</i>
Fuel Filter (Tri-Power Only) . . . . .	Replace filter. If premature plugging is experienced, change brand of fuel.
Air Cleaner Element 8-Cylinder Engine . . . . .	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>
Heavy-Duty Air Cleaner, Paper Element . . . . . (Tri-Power Only)	Clean and replace.  <i>NOTE: Clean or replace after each occasion of driving under severe dust conditions.</i>
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>
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 (All Exc. Tri-Power) . . . . .	Remove and clean filter and filter cavity.

Chassis Lubrication . . . . .	For additional extended chassis lubrication periods, special Pontiac chassis grease, Part No. 1474829 is recommended. This grease has been especially formulated for your car, and is available at Pontiac Dealers. If conventional chassis lubricant is used, relubrication at 6 months (or 6,000 miles) is recommended.
-------------------------------	---

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

Automatic Transmission . . . . .	Replace transmission fluid. Refill with Automatic transmission fluid AQ-ATF, Type A, suffix A. Under heavy-duty operating conditions or excessive stop-and-go driving, replace oil and filter at 12,000-mile intervals.
----------------------------------	---

**1965 PONTIAC TEMPEST ITEMS REQUIRING LUBRICATION  
OR SERVICE AT SPECIAL INTERVALS**

Parking Brake Cables . . . . .	Clean and lubricate at time rear brake drums are removed for major brake service - use light grease.
Speedometer Cable . . . . .	No periodic lubrication required. When replacing cable, apply light coating of cable grease to drive cable, then wipe off excess grease by running through fingers full length of cable. <i>NOTE: Too much lubricant can cause speedo head failure.</i>
Front Wheel Bearings . . . . .	Lubricate whenever brake drums are removed. Use high melting-point, water-resistant grease.
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 as required. Use sparingly.
Fuel Door Hinge . . . . .	Engine oil on hinge pin and spring anchor points as required.
Rear Compartment Lid Hinges . . . . .	Engine oil as required.
Convertible Front Door-to-Lock Wedge Plates . . . . .	Stick-type lubricant, use as required. Sparingly.
Fan and Accessory Belts . . . . .	Adjust to recommended specifications as required to prevent slippage.
Windshield Washer Solvent . . . . .	Use only Pontiac-approved solvent, Part No. 1050001, and follow instructions on label to ensure proper operation of washer, and to prevent paint damage from excessively strong solutions.
Fan and Accessory Belts . . . . .	Adjust to recommended specifications as required to prevent slippage.
Windshield Washer Solvent . . . . .	Use only Pontiac-approved Solvent, Part No. 1050001, and follow instructions on label to ensure proper operation of washer, and to prevent paint damage from excessively strong solutions.