

ONAN MOTOR GENERATOR MAINTENANCE SCHEDULE**

SERVICE THESE ITEMS	AFTER EACH CYCLE OF INDICATED HOURS					
	8	100	200	400	500	1000
General Inspection						
Check Oil Level						
Change Crankcase Oil (1)						
Clean Air Cleaner (1)						
Check Spark Plugs						
Fuel Filter—Check (1)						
Check Breaker Points (2)						
Check Governor Linkage						
Clean Cooling Fins (1)						
Change Oil Filter (1)						
Replace Breaker Points						
Replace Air Cleaner (1)						
Remove Carbon From Heads						
Adjust Tappets						
Check Generator Brushes						
Complete Reconditioning (If Required)						

(1) Perform more often in extremely dusty conditions.

(2) Replace if necessary.

**GMC MotorHome only.

X-7622B

1976 GMC MOTORHOME AND TRANSMODE MAINTENANCE SCHEDULE

Effective with Vehicle Identification Number

MotorHome— TZE166V100878

TransMode— TZE336V100880 (23')

TZE366V100883 (26')

To retain the safety, dependability and emission control performance originally built into your GMC MotorHome or TransMode Vehicle it is essential that it receive periodic inspections, maintenance and service parts replacements.

This folder contains a schedule of the maintenance required by the MotorHome, and the engine, chassis and body components of the TransMode Vehicle. These services should be performed by any GMC MotorHome Dealer or any other qualified service outlet which regularly provides such services.

In addition to the in-shop type services detailed in the schedule, the folder also includes safety checks which you, the vehicle owner or driver, should perform periodically.



IMPORTANT

THIS MAINTENANCE SCHEDULE AND SERVICE LOG SHOULD BE KEPT WITH THE VEHICLE AT ALL TIMES AND LEFT WITH THE VEHICLE WHEN SOLD. THE SERVICE LOG, PLUS ANY PERTINENT MAINTENANCE AND REPAIR RECEIPTS, MAY BE REQUIRED IN THE EVENT WARRANTY REPAIRS BECOME NECESSARY.

Part No. 2010486

Litho in USA

1976 VEHICLE MAINTENANCE SCHEDULE

(Opt. Motor Generator Covered Separately)

When To Perform Services (Months or Miles, Whichever Occurs First)	Item No.	Services (For Details, See Numbered Paragraphs)	OWNER'S SERVICE LOG							Insert month and day (e.g. 11/10) in mileage square† closest to the mileage when service is performed.									
			3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	50
SECTION A—LUBE AND GENERAL MAINTENANCE																			
Every 3 months or 3,000 miles	A- 1	▲Chassis Lubrication																	
	A- 2	▲*Engine Oil—Change																	
	A- 3	Living Area Water Pump Belt—Check																	
	A- 4	Air Compressor Wet Tank—Drain																	
Every 6 months or 6,000 miles	A- 5	▲*Fluid Levels—Check																	
	A- 6	Air Conditioning—Check																	
	A- 7	Air Compressor Air Filter—Clean																	
Every 6,000 miles (Check wheel nut torque after 1st 500 miles)	A- 8	Tire Rotation																	
At 1st oil change—then every 2nd	A- 9	*Engine Oil Filter—Replace																	
Every 12 months or 12,000 miles	A-10	▲Automatic Transmission Fluid and Final Drive Lubricant—Change																	
	A-11	Cooling System—See Explanation of Maintenance Schedule																	
Every 24,000 miles	A-12	▲Rear Wheel Bearings—Clean and Repack																	
	A-13	Final Drive Boots & Output Shaft Seals—Check																	
SECTION B—SAFETY MAINTENANCE																			
Every 6 months or 6,000 miles	B -1	Owner Safety Checks																	
	B- 2	Tires and Wheels—Inspection																	
	B- 3	Exhaust System—Check																	
	B- 4	▲*Engine Drive Belts—Check																	
	B- 5	Suspension and Steering—Check																	
	B- 6	Brakes and Power Steering—Check																	
Every 12 months or 12,000 miles	B- 7	Drum Brakes and Parking Brake—Check																	
	B- 8	Throttle Linkage—Check																	
	B- 9	Underbody Flush & Check																	
	B-10	Bumper—Check																	
SECTION C—EMISSION CONTROL MAINTENANCE																			
At 1st 6 months or 6,000 miles, then at 12 month/12,000 mile intervals thereafter	C- 1	Thermostatically Controlled Air Cleaner—Check																	
	C- 2	Carburetor Choke—Check																	
	C- 3	▲Engine Idle Speed and Mixture Adjustment																	
	C- 4	Carburetor and Intake Manifold Mounting Torque																	
Every 6,000 miles	C- 5	▲Spark Plug Replacement																	
Every 12 months or 12,000 miles	C- 6	Carburetor Fuel Filter Replacement																	
	C- 7	Thermal Vacuum Switch and Hoses—Check																	
	C- 8	▲PCV System Check																	
	C- 9	Air Cleaner Element Replacement																	
	C-10	Spark Plug Wires—Check																	
	C-11	Engine Timing Adjustment & Distributor—Check																	
	C-12	Throttle Return Control—Check																	
	C-13	ECS System Check & Filter Replacement																	
Every 24 months or 24,000 miles	C-14	Fuel Cap, Tanks and Lines—Check																	

▲Also a Safety Service

*Also an Emission Control Service

▲See explanation copy for variations in service descriptions and/or intervals

†Figures represent miles in thousands

EXPLANATION OF 1976 VEHICLE MAINTENANCE SCHEDULE

Presented below is a brief explanation of each of the services listed in the preceding "1976 Vehicle Maintenance Schedule."

NORMAL VEHICLE USE—The maintenance instructions contained in this maintenance schedule are based on the assumption that the vehicle will be used as designed:

- To carry passengers and cargo within the limitations indicated on the Vehicle Identification Number plate, located behind the right front access door,
- On reasonable road surfaces within legal operating speeds,

Unusual operating conditions such as heavy dust, continuous short trips, or pulling trailers, is not considered normal use and therefore more frequent maintenance will be required. Such additional maintenance requirements are included where applicable.

After each of the following maintenance services is performed, it is recommended that you insert the date in the maintenance schedule under the appropriate "Owner Service Log" column. For example, if the first chassis lubrication is performed at 3,000 miles, the date should be entered under the column headed "3."

LUBE & GENERAL MAINTENANCE

ITEM NO. SERVICES

- A-1 CHASSIS**—Lubricate all grease fittings in front and rear suspension and steering linkage. Also lubricate transmission shift linkage, brake pedal spring, parking brake cable guides and linkage.
- A-2 ENGINE OIL***—Change each 3 months or 3,000 miles, whichever occurs first. See your Operating Manual for additional details on engine oil.
- A-3 LIVING AREA WATER PUMP BELT****—Check for belt wear and adjust tension if necessary.
- A-4 AIR COMPRESSOR WET TANK**—Drain the wet tank at 3 month or 3,000 mile intervals.
- NOTE: More frequent drain intervals should be made if driving conditions and habits result in excessive air compressor operation.
- A-5 FLUID LEVELS**—Check level of fluid in brake master cylinder[•], power steering pump[•], all batteries,

engine^{*}, final drive, transmission, and windshield washer[•]. The engine coolant should be checked for proper level and freeze protection to at least -20°F (-29°C.) (-37°C. in Canada) or to the lowest temperature expected during the period of vehicle operation. Proper engine coolant also provides corrosion protection.

Any significant fluid loss in any of these systems or units could mean that a malfunction is developing and corrective action should be taken immediately. A low fluid level in the brake master cylinder front reservoir could also be an indicator that the disc brake pads need replacing.

- A-6 AIR CONDITIONING**—Check condition of air conditioning system hoses and refrigerant charge at sight glass. Replace hoses and/or refrigerant if need is indicated.
- A-7 AIR COMPRESSOR**—Filter should be washed with soap and water solution or replaced.
- A-8 TIRES**—To equalize wear, rotate tires as illustrated in Operating Manual and adjust tire pressures as shown on tire placard on glove box door. Have wheel-nut torque checked after 1st 500 miles and 500 miles after every wheel replacement thereafter.
- A-9 ENGINE OIL FILTER***—Replace at the first oil change and every 2nd oil change thereafter.
- A-10 AUTOMATIC TRANSMISSION FLUID AND FINAL DRIVE LUBRICANT**—Change the transmission fluid and filter; change final drive lubricant. See your Operating Manual for additional details.
- A-11 COOLING SYSTEM**—At 12-month or 12,000-mile intervals, wash radiator cap and filler neck with clean water, pressure test system and radiator cap for proper pressure holding capacity. (Tighten hose clamps and inspect condition of all cooling and heater hoses.) Replace hoses if checked, swollen or otherwise deteriorated.

Also each 12 months or 12,000 miles, clean exterior of radiator core and air conditioning condenser. Every 24 months or 24,000 miles, drain, flush, and refill the cooling system with a new coolant solution as described in your Operating Manual.

- Also a Safety Service.
- *Also an Emission Control Service.
- **GMC MotorHome only.
(If equipped)

- A-12 REAR WHEEL BEARINGS**—Clean and repack wheel bearings with a lubricant as specified in the "Recommended Fluids and Lubricants" chart.

- A-13 FINAL DRIVE AXLE BOOTS AND OUTPUT SHAFT SEALS**—Check for damaged, torn or leaking boots on drive axles and for leaking output shaft seal. Replace defective parts as necessary.

SAFETY MAINTENANCE

NOTE: Items B-1 (a) thru (u) can be checked by the owner, while Items B-2 thru B-10 should only be checked by a qualified mechanic. It is particularly important that any safety systems which may have been adversely affected in an accident be checked and repaired as necessary before the vehicle is returned to use.

- B-1 SAFETY CHECKS TO BE PERFORMED BY OWNER**—The following checks should be made regularly during operation at no greater interval than 6 months or 6,000 miles, whichever occurs first, and more often when the need is indicated. Any deficiencies should be brought to the attention of your dealer or another service outlet, as soon as possible, so the advice of a qualified mechanic is available regarding the need for repairs or replacement.

- a STEERING COLUMN LOCK**—Check for proper operation by attempting to turn key to LOCK position in the various transmission gears with vehicle stationary. Key should turn to LOCK position only when transmission control is in "PARK." Key should be removable only in LOCK position.

- b PARKING BRAKE**—Check parking brake holding ability by parking on a fairly steep hill and restraining the vehicle with the parking brake only.

IMPORTANT: Do NOT attempt to test the holding ability of the "PARK" position on the transmission—the vehicle could become locked in this position.

CAUTION: Before making the following check, be sure to have a clear distance ahead and behind the vehicle, set the parking brake and firmly apply the foot brake. Do not depress accelerator pedal. Be prepared to turn off ignition switch immediately if engine should start.

- c STARTER SAFETY SWITCH**—Check starter safety switch by attempting to start the engine with the transmission in each of the driving gears. The starter should operate only in the "PARK" or "N" (Neutral) positions.
- d TRANSMISSION SHIFT INDICATOR**—Check to be sure transmission shift indicator accurately indicates the shift position selected.
- e STEERING**—Be alert to any changes in steering action. The need for inspection or servicing may be indicated by increased effort to turn the steering wheel, excessive free-play or unusual sounds when turning or parking.
- f WHEEL ALIGNMENT AND BALANCE**—In addition to uneven or abnormal tire wear, the need for wheel alignment service may be indicated by a pull to the right or left when driving on a straight and level road. The need for wheel balancing is usually indicated by a vibration of the steering wheel or seat while driving at normal highway speeds.
- g BRAKES**—Be alert to illumination of the brake warning light or changes in braking action, such as repeated pulling to one side, unusual sounds when braking or between brake applications, or increased brake pedal travel. Any of these could indicate the need for brake system inspection and/or service.
- h ENGINE AND MOTOR GENERATOR EXHAUST SYSTEM**—Be alert for any change in the sound of the exhaust system, motor generator (if so equipped), or a smell of fumes which may indicate a leak requiring inspection and/or service (See "Engine Exhaust Gas Caution in Operating Manual and item B-3 in this folder). Also for GMC MotorHomes, see "Living Area Facilities Caution (Carbon Monoxide)" in the Operating Manual.
- i LP GAS SYSTEM** (If so equipped)—Check that all vents and LP gas-operated components are clean and operating properly. If LP gas fumes are noticed at any time the cause should be corrected without delay because of the possibility of fire. See cautions referenced at the end of item "h".
- j WINDSHIELD WIPERS AND WASHERS**—Check operation of wipers, as well as condition and alignment of wiper blades. Check amount and direction of fluid sprayed by washers during use.
- k DEFROSTERS**—Check performance by moving controls to "DEF" and noting amount of air directed against the windshield.
- l REAR VIEW MIRRORS AND SUN VISORS**—Check that friction joints are properly adjusted so mirrors and sun visors stay in the selected position.
- m HORN**—Blow the horn occasionally to be sure that it works. Check all button locations.
- n LAP BELTS**—Check belts, buckles, latch plates, retractors and anchors for impaired operation or damage. Check to make certain that anchor mounting bolts are tight.
- o SEAT LOCKING AND SWIVEL LEVERS**—Check to see that seat locking and swivel levers are holding by attempting to push forward and backward, and to twist seat with the levers set in the locked position.
- p LIGHTS AND BUZZERS**—Check all instrument panel illuminating and warning lights, ignition key buzzer, interior lights, license plate light, side marker lights, headlights, parking lights, taillights, brake lights, turn signals, back-up lights, hazard warning flashers, and roof mounted identification and clearance lights. Have headlight aim checked every 12 months or 12,000 miles, or more often if light beams seem to be aimed improperly.
- q GLASS**—Check for broken, scratched, dirty or damaged glass on vehicle that could obscure vision or become an injury hazard.
- r ENTRANCE DOOR LATCH**—Check for positive closing, latching and locking.
- s EXTERIOR COMPARTMENT DOOR AND FILLER OPENINGS**—Check to make sure all doors and openings can be closed securely by trying to open them after each closing. Check also for broken, damaged, or missing parts which might prevent secure closing.
- t FLUID LEAKS**—Check for fuel, water, oil or other fluid leaks by observing the surface beneath the vehicle after it has been parked for awhile. (Water dripping from automotive air conditioning system after use is normal.) If gasoline fumes or fluid are noticed at any time, the cause

should be determined and corrected without delay because of the possibility of fire.

- u **SPARE AND JACK**—Check that spare tire assembly (if so equipped) and jack equipment are securely stowed at all times.

B-2 TIRES AND WHEELS—To equalize wear, rotate tires as illustrated in Operating Manual. Adjust tire pressures as recommended on tire placard on glove box door. Check disc brake pads and condition of rotors while wheels are removed. Check tires for excessive wear or damage. Make certain wheels are not bent or cracked and wheel nuts are tight. Check tire inflation pressure at least monthly, or more often if daily visual inspection indicates the need.

B-3 EXHAUST SYSTEM—Check complete exhaust system and nearby body areas of vehicle engine and motor-generator system for broken, damaged, missing or mispositioned parts, open seams, holes, loose connections or other deterioration which could permit exhaust fumes to seep into the passenger compartment. Dust or water in the passenger compartment may be an indication of a problem in one of these areas. Any defects should be corrected immediately. To help ensure continued integrity, exhaust system pipes rearward of the muffler must be replaced whenever a new muffler is installed.

B-4 ENGINE DRIVE BELTS*—Check belts driving fan, Delcotron, power steering pump and air conditioning compressor for cracks, fraying, wear and tension. Adjust or replace as necessary.

It is recommended that belts be replaced every 24 months or 24,000 miles, whichever occurs first.

B-5 SUSPENSION AND STEERING—Check for damaged, loose or missing parts, or parts showing visible signs of excessive wear or lack of lubrication in front and rear suspension and steering system. Questionable parts noted should be replaced by a qualified mechanic without delay.

B-6 BRAKES AND POWER STEERING—Check lines and hoses for proper attachment, leaks, cracks, chafing, deterioration, etc. Any questionable parts noted should be replaced or repaired immediately. When abrasion or wear is evident on lines or hoses, the cause must be corrected.

B-7 DRUM BRAKES AND PARKING BRAKE—(See Item B-2 for disc brake check.) Check drum brake linings and other internal brake components at each wheel (drums, wheel cylinders, etc.). Parking brake adjustment also should be checked whenever drum brake linings are checked.

NOTE: More frequent checks should be made if driving conditions and habits result in frequent brake application.

B-8 THROTTLE LINKAGE—Check for damaged or missing parts, interference or binding. Any deficiencies should be corrected without delay by a qualified mechanic.

B-9 UNDERBODY—In geographic areas using a heavy concentration of road salt or other corrosive materials for snow removal or road dust control, flush and inspect the complete under side of the vehicle at least once each year, preferably after a winter's exposure. Particular attention should be given to cleaning out underbody members where dirt and other foreign materials may have collected.

B-10 BUMPERS—Check the front and rear bumper systems at 12-month/12,000-mile intervals to be sure the impact protection and clearance originally designed into the system remains in a state of full readiness. They also should be checked whenever there is obvious bumper misalignment, or whenever the vehicle has been involved in a significant collision in which the bumper was struck, even when no damage to the bumper system can be seen.

EMISSION CONTROL MAINTENANCE

NOTE: Additional recommended maintenance instructions relating to vehicle use, evidence of maintenance, and service replacement parts are included in the New Vehicle Warranty Information folder.

C-1 THERMOSTATICALLY CONTROLLED AIR CLEANER—Inspect installation to make certain that all hoses and ducts are connected and correctly installed. Also check valve for proper operation.

C-2 CARBURETOR CHOKE AND HOSES—Check choke mechanism for free operation. Any binding condition which may have developed due to petroleum gum formation on the choke shaft or from damage should be corrected. Check carburetor choke hoses for proper connection, cracking, abrasion or deterioration and correct or replace as necessary.

C-3 ENGINE IDLE SPEED AND MIXTURE—Adjust engine idle speed accurately (following the specifications shown on the label attached to the engine rocker cover) at the first 6 months or 6,000 miles of operation, then at 12 month or 12,000 mile intervals. Adjustment must be made with test equipment known to be accurate.

At 12 month or 12,000 mile intervals or in case of major carburetor overhaul, or when poor idle quality exists, the idle mixture should be adjusted by use of a CO meter when an accurate meter is available, or the alternate mechanical method (lean drop) should be used to adjust the idle mixture.

C-4 CARBURETOR AND INTAKE MANIFOLD MOUNTING—Torque carburetor and intake manifold attaching bolts and/or nuts at first 6 months or 6,000 miles—then at 12 month/12,000 mile intervals.

C-5 SPARK PLUGS—Replace at 6,000 mile intervals when operating with leaded fuels, or at 12,000-mile intervals when using unleaded fuels. Use of leaded fuels results in lead deposits on spark plugs and can cause misfiring at mileages less than 12,000 miles. Where misfiring occurs prior to 6,000 miles, spark plugs in good condition can often be cleaned, tested, and reinstalled in an engine with acceptable results.

C-6 CARBURETOR FUEL FILTER—Replace filter at 12-month/12,000-mile intervals or more frequently if clogged.

C-7 THERMAL VACUUM SWITCH AND HOSES—Check for proper operation. A malfunctioning switch must be replaced. Check hoses for proper connection, cracking, abrasion or deterioration and replace as necessary.

C-8 POSITIVE CRANKCASE VENTILATION SYSTEM (PCV)—Check the PCV system for satisfactory operation at 12,000-mile intervals, and clean filter (located in rocker cover). Replace the PCV valve at 24,000-mile intervals and blow out PCV valve hose with compressed air. Replace deteriorated hoses.

C-9 AIR CLEANER ELEMENT—Replace the engine air cleaner element under normal operating conditions every 12,000 miles. Operation of vehicle in dusty areas will necessitate more frequent element replacement. Your GMC MotorHome dealer can be of assistance in determining the proper replacement frequency for the conditions under which you operate your vehicle.

CAUTION: Do not operate the engine without the air cleaner unless temporary removal is necessary during repair or maintenance of the vehicle. When the air cleaner is removed back-firing can cause fire in the engine compartment.

C-10 SPARK PLUG WIRES—Clean exterior of wires; remove any evidence of corrosion on end terminals. Inspect spark plug wires for evidence of checking, burning, or cracking of exterior insulation and tight fit at distributor cap and spark plugs or other deterioration. If corrosion cannot be removed or other conditions above are noted, replace wire.

C-11 TIMING AND DISTRIBUTOR CAP—Adjust ignition timing following the specification on label attached to the engine rocker cover.

Also, carefully inspect the interior and exterior of the distributor cap and rotor for cracks, carbon tracking and terminal corrosion. Clean or replace as necessary.

C-12 THROTTLE RETURN CONTROL (TRC)—Check hoses for cracking, abrasion or deterioration and replace as necessary. Check system for proper operation.

C-13 EVAPORATION CONTROL SYSTEM (ECS)—Check all fuel and vapor lines and hoses for proper connections and correct routing as well as condition. Remove canister(s) and check for cracks or damage. Replace damaged or deteriorated parts as necessary. Replace filter in lower section of canister.

If vehicle is equipped with two canisters, filter is located in the lower canister only.

C-14 FUEL CAP, FUEL LINES AND FUEL TANKS—Inspect the fuel tank cap and lines for damage which could cause leakage. Inspect fuel cap for correct sealing ability and indications of physical damage. Replace any damaged or malfunctioning parts.

MOTOR GENERATOR MAINTENANCE INTERVALS

Regularly scheduled maintenance is the key to lower operating costs and longer service life for the unit. The following schedule can be used as a guide for units installed in a GMC MotorHome. However, actual operating conditions under which a unit is run should be the determining factor in establishing a maintenance schedule. When operating in very dusty or dirty conditions, some of the service periods may have to be reduced. Check the crankcase oil, the filters, etc., frequently until the proper service time periods can be established.

For any abnormalities in operation, unusual noises from engine or accessories, loss of power, overheating, etc., contact your nearest GMC MotorHome Dealer.

RECOMMENDED FLUIDS & LUBRICANTS

USAGE	FLUID/LUBRICANT
Engine oil	High quality SE oil
Motor generator**	High quality oil meeting both SE and CC requirements
Power steering system and pump reservoir. Includes windshield wiper motor	GM power steering fluid Part No. 1050017—if not available use DEXRON® II automatic transmission fluid
Final drive	SAE 80W or SAE 80W-90 GL-5 gear lubricant (SAE 80W GL-5 in Canada)
Brake system and master cylinder	Delco Supreme 11 or, DOT-3 fluid or equivalent
Transmission shift linkage	Engine oil
Chassis lubrication	Lithium soap multi-purpose chassis grease meeting requirements of GM 6031-M
Transmission	DEXRON® II automatic transmission fluid
Parking brake cables	Chassis grease
Rear wheel bearings	Lithium soap multi-purpose chassis grease meeting requirements of GM 6031-M
Body door hinge pins, hinges and latches at the front access doors, external utilities generator/storage and LP gas doors. Gas fill door hinge	Engine oil
Windshield washer solvent	GM Optikleen washer solvent Part No. 1050001 or equivalent
Batteries	Colorless, odorless, drinking water
Engine coolant	Mixture of water and a high quality Ethylene Glycol base type anti-freeze conforming to GM Spec. 1899-M

NOTE: Fluids and lubricants identified with GM part numbers or GM specification numbers may be obtained from your GMC MotorHome Dealer.

**GMC MotorHome only.