1977 VEHICLE MAINTENANCE SCHEDULE

(Opt. Motor Generator Covered Separately)

Wilhon To Borform Convices	Ī		Corringe	OWNER'S SERVICE LOG	Insert month and day (e.g. 11/10) in mileage square† closest to the mileage when service is performed.	
(Months or Miles, Whichever Occurs First)	No.	(For Details, Se	(For Details, See Numbered Paragraphs)	3 6 9 12 15 18 21	24 27 30 33 36 39 42 45 48	8 50
			SECTION A-LUBE A	AND GENERAL MAINTENANCE	A STATE OF THE STA	
Every 3 months or 3,000 miles	A- 1	*Chassis Lubrication				
		**Engine Oil—Change	nge			
	A 3	Air Compressor Wet Tank-	Wet Tank—Drain			
Every 6 months or 6,000 miles		♣•Fluid Levels - Check				
	A 5	Air Conditioning—Check	—Check			
		Air Compressor Air Filter-	Air Filter—Clean			
Every 6,000 miles (Check wheel	A- 7	Tire Rotation				
At 1st oil change—then every 2nd	A - 8	*Engine Oil Filter	ter—Replace			
Every 12 months or 12,000 miles		*Automatic Trans	*Automatic Transmission Fluid and Final Drive Lubricant—Change			31
	A-10	Cooling System—See Exp Maintenance Schedule	Cooling System—See Explanation of Maintenance Schedule			
Every 24,000 miles	A-11	▲Rear Wheel Bea	*Rear Wheel Bearings—Clean and Repack			
	A-12	Final Drive Boo	Final Drive Boots & Output Shaft Seals-Check			
			SECTION B-S	B-SAFETY MAINTENANCE		
Every 6 months or 6,000 miles	8-1	Owner Safety Checks	hecks			
	8- 2	Tires, Wheels 8	Tires, Wheels & Disc Brakes-Inspection			
	8-3	Exhaust System—Check	-Check			
		Suspension and	Suspension and Steering—Check			
	8- 5	Brakes and Pow	Brakes and Power Steering—Check			
Every 12 months or 12,000 miles	8-6	◆*Engine Drive Belts—Check	Its-Check			
	B- 7	Drum Brakesian	Drum Brakes and Parking Brake—Check			
	8-8	Throttle Linkage—Check	- Check			7
	B- 9	Underbody Flush & Check	h & Check			
			SECTION C-EMISSION CONTRO	N CONTROL MAINTENANCE		
At 1st 3,000 miles	C- 1	Carburetor Mounting Torque	iting Torque			
At 3,000 miles, 12,000 miles, then at 12,000 mile intervals	C- 2	*Idle Speed Adjustment	tment			
Every 12 months or 12,000 miles	C- 3	Thermostatically	Thermostatically Controlled Air Cleaner—Check			
	C- 4	Carburetor Choke—Check	- Check			
	C- 5	Carburetor Fuel Filter—Replace	ilter—Replace			
	C- 6	◆PCV System - Check	eck			
	C- 7	Spark Plug Wires—Check	-Check			
	C- 8	Air Cleaner Element-Replace	ent-Replace			
	C- 9	Thermal Vacuum	Thermal Vacuum Switch & Hoses—Check			
	C-10	Throttle Return Control - Check	control—Check			- 10
	C-11	Engine Timing A	Engine Timing Adjustment & Distributor Check			
Every 12,000 miles	C-12	Spark Plugs-Re	Replace			
Every 24 months or 24,000 miles	C-13	ECS System Che	ECS System Check & Filter Replace			
	C-14	Fuel Cap, Tank & Lines-Check	& Lines—Check			

1977 VEHICLE MAINTENANCE SCHEDULE EXPLANATION OF

Presented below is a brief explanation of each of the services listed in the preceding "1977 Vehicle Maintenance Schedule."

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

- 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
- On unleaded or regular grade leaded gasoline

sections included below. quent vehicle maintenance as specified in the respective Unusual operating conditions will require more fre-

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

LUBE & GENERAL MAINTENANCE

- A-1 | CHASSIS—Lubricate all grease fittings in front and parking brake cable guides and linkage. cate transmission shift linkage, brake pedal spring rear suspension and steering linkage. Also lubri-
- ENGINE OIL*-Change each 3 months or 3,000 Manual for additional details on engine oil. miles, whichever occurs first. See your Operating
- 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

A.A washer. The engine coolant should be checked engine*, final drive, transmission, and windshield cylinder, power steering pump, all batteries, FLUID LEVELS—Check level of fluid in brake master excessive air compressor operation.

for proper level and freeze protection to at least

engine coolant also provides corrosion protection pected during the period of vehicle operation. Proper -20°F (-29°C.) or to the lowest temperature ex-

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

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

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

*Also an Emission Control Service Also a Safety Service.

- A-11 REAR WHEEL BEARINGS—Clean and repack wheel "Recommended Fluids and Lubricants" chart. bearings with a lubricant as specified in the
- A-12 FINAL DRIVE AXLE BOOTS AND OUTPUT SHAFT SEALS detective parts as necessary. drive axles and for leaking output shaft seal. Replace -Check for damaged, torn or leaking boots on

SAFETY MAINTENANCE

have been adversely affected in an accident be checked and repaired as necessary before the larly important that any safety systems which may be checked by a qualified mechanic. It is particu-NOTE: Items B-1 (a) thru (u) can be checked by the owner, while Items B-2 thru B-9 should only vehicle is returned to use

- often when the need is indicated. Any deficiencies during operation at no greater interval than 6 months SAFETY CHECKS TO BE PERFORMED BY OWNERor another service outlet, as soon as possible, so the or 6,000 miles, whichever occurs first, and more should be brought to the attention of your dealer the need for repairs or replacement. advice of a qualified mechanic is available regarding The following checks should be made regularly
- D STEERING operation by attempting to turn key to LOCK position only when transmission control is in vehicle stationary. Key should turn to LOCK position in the various transmission gears with "PARK." Key should be removable only in LOCK position. COLUMN LOCK-Check for
- b PARKING BRAKE—Check parking brake holding ing the vehicle with the parking brake only. ability by parking on a fairly steep hill and restrain-

ing ability of the "PARK" position on the transthis position mission—the vehicle could become locked in IMPORTANT: Do NOT attempt to test the hold-

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

- 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.
- 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.
- 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.
- TEM—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). In addition 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. Also, see cautions referenced at the end of item "h".
- 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.
- 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.
- retractors and anchors for proper operation and for damage. Check to make certain that anchor mounting bolts are tight.
- see that seat locking and swivel levers securely engage by attempting to push forward and backward, and to twist seat with the levers set in the locked position.
- 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.
- for positive closing, latching and locking.
- 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 latching.
- 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.

- bly (if so equipped) and jack equipment are securely stowed at all times.
- pads for wear and surface condition of rotors while wheels are removed during tire rotation (see Item A-7). Check tires for excessive wear or damage. Make certain wheels are not bent or cracked and that wheel nuts have been tightened to the torque value specified in the Operating Manual. Check tire inflation pressure (including the spare tire) when the tires are "cold" at least monthly, or more often if daily visual inspection indicates the need.
- tem 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 necessary corrections should be made immediately. To help ensure continued integrity, exhaust system pipes rearward of the muffler must be replaced whenever a new muffler is installed. Also see Item B-1 (h).
- 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.
- hoses for proper attachment, binding, 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.
- generator, power steering pump and air conditioning compressor for cracks, fraying, wear and tension. Adjust or replace as necessary.
- 1 DRUM BRAKES AND PARKING BRAKE—(See item B-2 for disc brake check.) Check drum brake linings for wear or cracks and other internal brake components at each wheel (drums, wheel cylinders, etc.). Park-

ing 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.
- snow removal and dust control accumulate on the underbody. If allowed to remain, these materials can result in accelerated rusting and deterioration of underbody components such as fuel lines, frame, floor, exhaust system, etc. At least once each year, preferably after a winter's exposure, these corrosive materials should be removed by flushing the underbody with plain water. Particular attention should be given to cleaning out those areas where mud and other foreign materials collect.

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.

- ing bolt torque at the first 3,000 miles, only. If torque on any bolt is less than 48 inch-pounds, tighten all bolts to 120 inch-pounds using the following tightening sequence:
- a—Left Rear Bolt c—Right Rear Bolt b—Right Front Bolt d—Left Front Bolt

 ENGINE IDLE SPEED—Adjust engine idle speed accurately (following the specifications shown on the label attached to engine rocker cover) at 3,000 miles

of operation, 12,000 miles, then at 12,000 mile

intervals thereafter. Adjustments must be made with

test equipment known to be accurate

C-2

Inspect installation to make certain that all hoses and ducts are connected and correctly installed. Also check valve for proper operation.

- C-4 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 detenioration and correct or replace as necessary.
- c-5 CARBURETOR FUEL FILTER—Replace filter at 12-month/12,000-mile intervals or more frequently if clogged.
- C-6 POSITIVE CRANKCASE VENTILATION SYSTEM (PCV)—
 Check the PCV system for satisfactory operation at 12 month or 12,000-mile intervals, and clean filter (located in rocker cover). Replace the PCV valve and filter at 24 month or 24,000-mile intervals and blow out PCV valve hose with compressed air. Replace deteriorated hoses. The PCV valve should be replaced at 12 month or 12,000 mile intervals when the vehicle is used in operations involving heavy dust, extensive idling, and short trip use at freezing temperatures where engine does not become thoroughly warmed up.
- clean cloth or soft bristle brush and a solution of mild detergent and warm water. 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.
- 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 backfiring can cause fire in the engine compartment.
- c-9 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. California engines are equipped with an additional low temperature thermal vacuum switch.

- C-10 THROTTLE RETURN CONTROL (TRC)—Check hoses for cracking, abrasion or deterioration and replace as necessary. Check system for proper operation and adjust as necessary.
- 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 SPARK PLUGS—Replace at 12,000 mile intervals.

 Where misfiring occurs prior to 12,000 miles, spark plugs in good condition can often be cleaned, tested and reinstalled in the engine with acceptable results.
- 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

Engine coolant	Batteries	Windshield washer solvent	Body door hinge pins, hinges and latches at the front access doors, external utilities generator/storage and LP gas doors. Gas fill door hinge	Rear wheel bearings	Parking brake cables	Transmission	Chassis lubrication	Transmission shift linkage	Brake system and master cylinder	Final drive	Power steering system and pump reservoir. Includes windshield wiper motor	Motor generator**	Engine oil	USAGE
Mixture of water and a high quality Ethylene Glycol base type anti-freeze conforming to GM Spec. 1899-M	Colorless, adorless, drinking water	GM Optikleen washer solvent Part No. 1051515 or equivalent	Engine oil	Lithium soap multi-purpose chassis grease meeting requirements of GM 6031-M	Chassis grease	DEXRON* II automatic transmission fluid	Lithium soap multi-purpose chassis grease meeting requirements of GM 6031-M	Engine oil	Delco Supreme 11 or, DOT-3 fluid or equivalent	SAE 80W or SAE 80W-90 GL-5 gear tubricant (SAE 80W GL-5 in Canada)	GM power steering fluid Part No. 1050017 or equivalent	High quality oil meeting both SE and CC requirements	High quality SE oil	FLUID/LUBRICANT

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

**GMC Motorhome only.

ONAN MOTOR GENERATOR MAINTENANCE SCHEDULE**

		AF	AFTER EACH CYCLE OF INDICATED HOURS	OF INDICATED	HOURS	
SERVICE THESE ITEMS	8	100	200	400	500	1000
General Inspection						
Check Oil Level						
Change Crankcase Oil (1)						
Clean Air Cleaner (1)						
Check Spark Plugs (2)						
Fuel Filter—Check (1)						
Check Breaker Points (2)						
Check Governor Linkage	H					
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)						

MOTORHOME AND TRANSMODE (With 403 Cubic Inch Engine) MAINTENANCE SCHEDULE 1977 GMC

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

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

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



IMPORTANT

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

Litho in USA

(1) Perform more often in extremely dusty conditions

(2) Replace if necessary.

** GMC Motorhome only