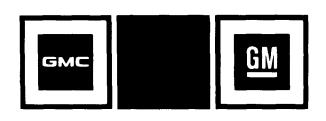


1976 TRANSMODE

OPERATING MANUAL

EFFECTIVE WITH
VEHICLE IDENTIFICATION NUMBER
TZE336V100880 (23')
TZE366V100883 (26')

IMPORTANT OPERATING, SAFETY AND MAINTENANCE INSTRUCTIONS



A WORD TO GMC OWNERS . . .

This manual has been prepared to acquaint you with the operation and maintenance of only the chassis and body components of your TransMode Vehicle, and to provide important safety information. It is supplemented by convenient folders which provide additional information vehicle maintenance, emission control, and warranties. We urge you to read these publications carefully and follow the recommendations to help assure the most enjoyable and troublefree operation of your vehicle.

When it comes to service, remember that your GMC MotorHome dealer knows your chassis and body components best and is interested in your complete satisfaction. Return to him for Guardian Maintenance Service and any other assistance you may require.

GMC Truck and Coach maintains a number of Zone Offices throughout the country. Should you have a problem that cannot be handled through normal channels, follow the procedure presented in Section 6 of this manual under the heading, "Owner Assistance".

We would like to take this opportunity to thank you for choosing a GMC product-and assure you of our continuing interest in your motoring pleasure and satisfaction.

GMC Truck & Coach Division

FOR CONTINUING SATISFACTION, KEEP YOUR VEHICLE ALL GM. GENERAL MOTORS PARTS ARE IDENTIFIED BY ONE OF THESE TRADEMARKS:







GMC TRANSMODE VEHICLE

Operating Manual

This manual should be considered a permanent part of the vehicle, and must remain with the vehicle at time of resale.

For vehicles sold in Canada, substitute the name General Motors of Canada Limited, wherever the name GMC Truck and Coach Division appears in this manual.

All information, illustrations and specifications contained in this manual are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.

GMC Truck & Coach Division General Motors Corporation Pontiac, Michigan 48053

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IMPORTANT INFORMATION ON VEHICLE LOADING

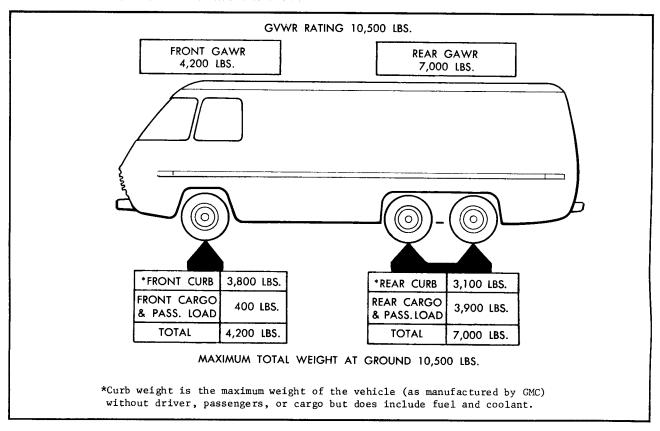
OVERLOADING

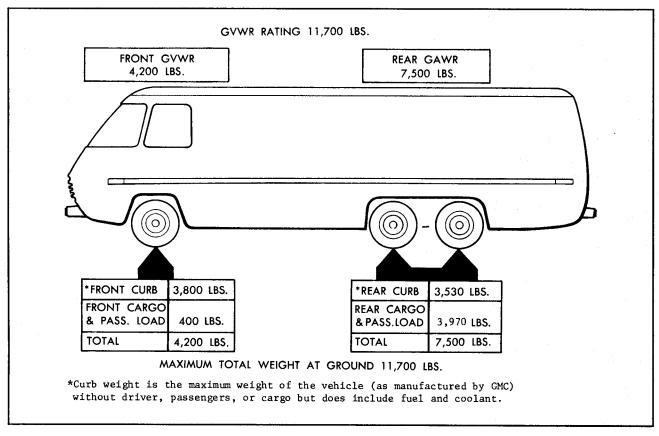
CAUTION

The components of your vehicle are designed provide to satisfactory service if the vehicle is not loaded excess of either the Gross Vehicle Weight Rating (GVWR) or the maximum Front and Rear Gross Axle Weight Ratings (GAWR's) specified on the vehicle identification number (VIN) plate located behind the right front access door. Overloading serious can create potential safety hazards and can also shorten the service life of your vehicle. Your dealer can advise you concerning proper loading conditions of your vehicle.

MAXIMUM FRONT AND REAR AXLE WEIGHTS (AS MANUFACTURED)

The weight of the cargoload must be properly distributed over both the front and rear axles, although not necessarily The (VIN) plate shows maximum weight that the front axle can carry (front GAWR) and the maximum weight that the rear axle (rear GAWR) can carry. The GVWR represents the maximum permissible loaded weight of the vehicle and takes into consideration the engine, transmission, frame, brake, axle and Actual capabilities. front and rear weights the ground can only be determined by weighing the vehicle. This can be accomplished through highway weigh stations or other such commercial facilities. For assistance in this regard, consult your





Vehicle Loading (26' Model)

dealer. Care should also be exercised to see that the cargoload is distributed on both sides of the centerline of the vehicle as equally as possible.

EFFECT ON WARRANTY

Your New Vehicle Warranty does not apply to any part of your vehicle "which has been subject to misuse." Any part which fails because of overloading has been subject to misuse.

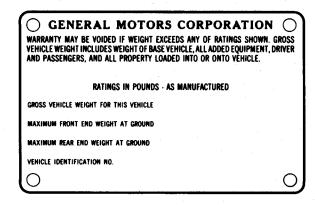
ALLOWABLE LATERAL WEIGHT VARIATION

The independent suspension on this vehicle could be adversely affected by an unbalanced load on either side of vehicle. The allowable front lateral weight variation is 250 pounds. The allowable rear lateral weight variation is 600 pounds,

VIN (Vehicle Identification Number) Plate

The vehicle identification number plate shows the GVWR and the front and rear GAWR's for the vehicle to which they are attached.

Gross Vehicle Weight (GVW) is the weight of the vehicle itself, all items added to the vehicle after it has left the factory, the driver and all occupants, and everything



Vehicle Identification Plate

that is loaded into (or onto) the vehicle. The GVW must not exceed the GVWR and the front and rear weights of the loaded vehicle must not exceed the front and rear GAWR's.

CAUTION

When using your vehicle to transport luggage or other cargo, it is recommended that the articles be secured in place. This precaution will help prevent such items from becoming dangerous projectiles in the event of an accident.

TIRES

It is important that the tires on your vehicle be of the proper size, and be properly inflated. It is important to avoid over-inflation as well as under-inflation. See the SERVICE AND MAINTENANCE section for proper tire inflation pressures.

For continuing satisfaction keep your vehicle all GM. General Motors Parts are identified by one of these trademarks:







SECTION 1

BEFORE STARTING YOUR VEHICLE

DRIVER CHECKLIST

Before Entering Vehicle

- 1. See that windows, mirrors and lights are clean.
- 2. Visually note inflation condition of tires.
- 3. Check that area to rear is clear if about to back up.

Before Driving Off

- 1. Lock all doors.
- 2. Position seat.
- 3. Adjust inside and outside mirrors.
- 4. Fasten seat belts.
- 5. Check that warning bulbs light when key is turned to start position.
- 6. Release parking brake (and see that brake warning light turns off).
- 7. Be sure you understand your vehicle and how to operate it safely.

REMINDER: Always lock entrance door when driving for greater security in the event of an accident, to help keep children from opening door, and for greater security against entry by unwelcome persons while momentarily stopped.

INSIDE REARVIEW MIRROR

Switch inside mirror to night position to reduce glare from following headlights.

To raise or lower mirror to achieve desired field of view, grasp mirror and exert sufficient pressure by pushing or pulling up, down, or sideways.

KEYS

Two sets of keys are furnished with your vehicle. Each key has a different cross section so that it can be inserted only in certain locks.

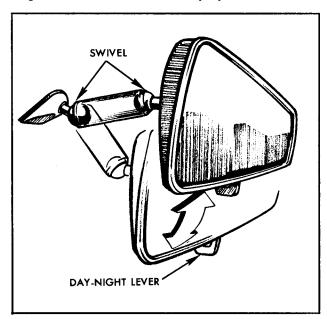
Key with Square Head-For ignition switch only.

Key with Oval Head-For door lock, glove box and other locking compartments.

The code number of each key is stamped on the "knock out" plug in the key head. Your dealer removed these plugs and placed them with the spare set of keys in the special key envelope that was given to you at the time of delivery. For your protection:

- Record the numbers on the key envelope and discard the key plugs.
- Keep the key envelope in a safe place such as your wallet, NOT IN THE VEHICLE.

In the event the original keys are lost, duplicates can be made by your dealer or



Inside Rearview Mirror



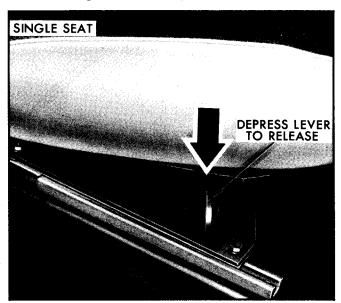
Seat Track Mechanism

a locksmith using the key code information.

Be sure to lock the glove box and remove the key from the vehicle whenever it is necessary to leave the ignition key with an attendant.

SEATS

The driver and passenger seats in the driver compartment may be adjusted to

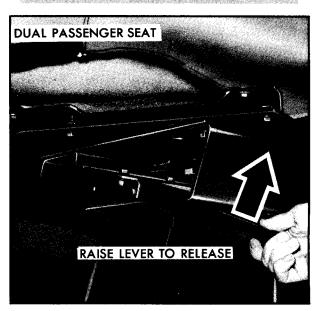


suit an individual's preference (except dual passenger seat). To move seat forward or backward, simply release the seat locking lever located on the left side of the seat. Once released, exert slight body pressure in the direction desired. Release lever to lock the seat in the desired position.

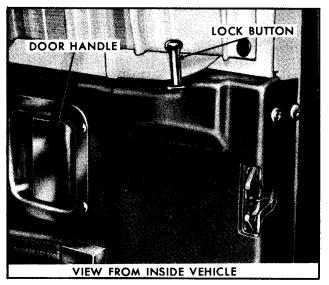
The seats can be swiveled to provide easy entrance and exit. To turn swivel seat, release locking mechanism by moving seat swivel lever, then turn seat.

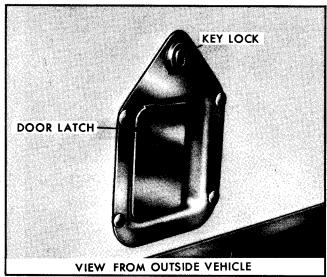
CAUTION

After adjusting a manually operated seat, always use body weight to push forward and backward on seat to twist assure that swivel adjusters and lock have securely engaged in the new position. Motion of the seat indicates that latches are not properly engaging. If the seat is not locked in position, the chance of injury and/or the severity of injury in the event of an accident could increase. If this condition persists, take the vehicle to your dealer for service. DO NOT adjust the driver's seat swivel or fore and aft mechanism while the vehicle is moving. The seat could move unexpectedly causing loss of control of the vehicle.



Seat Swivel Mechanism





Entrance Door Latch

ENTRANCE DOOR

DOOR LATCH

Door must be locked from outside the vehicle by inserting the key into the door key lock and turning. To unlock, turn in the clockwise direction. Reverse the direction to lock.

To lock door from inside vehicle, push the lock button DOWN. To unlock and open door from the inside, pull the lock button UP and pull on inside door handle.

LAP BELTS

Your vehicle is equipped with lap belts in the driver and front passenger seating position(s). It is recommended that while the vehicle is in motion, all occupants remain seated and keep lap belts buckled snugly at all times.

The front outboard seating positions—have retractors which are designed to automatically take up excess webbing.

- Adjust seat to your satisfaction and sit erect and well back in the seat.
- In a single motion, pull webbing across lap far enough to permit inserting metal latch plate end of lap belt into the buckle, until a snap is heard. If webbing

is not pulled out far enough to reach the buckle, let the belt rewind into the retractor to release lock mechanism, so belt can be pulled out to the proper length.

 Position lap belt across lap as LOW ON HIPS as possible. To reduce the risk of sliding under the belt during an accident, adjust to a SNUG FIT by pulling belt firmly across lap in direction of retractor so it can take up slack.

NOTE: Take care not to let the lap belt twist while it is being rewound into the retractor. The bulk of the twisted belt may cause the retractor to jam so it will not rewind further, while at the same time locking retractor's mechanism prevent the belt from being withdrawn. If a belt should become jammed, you may be able to release it by working the belt in or out until the belt rewinds far enough to unlock. If lap belt remains jammed or other parts of the restraint system do not operate properly take the vehicle to your dealer for service.

CAUTION

A snug fit and a low lap belt position are essential to lessen the chance of injury in the event of an accident, because this spreads the



Lap Belt (Front Seating Position)

force exerted by the lap belt in a collision over the strong hip bone structure rather than across the soft abdominal area. To help lessen the chance of injury in the event of an accident: Never use the same belt for more than one person at a time; avoid wearing belts in a twisted condition; do not allow belts or hardware to become damaged by being pinched between the seat structural (metallic) members or in the door.

Inboard seating position, front dual passenger seat (if so equipped)—should be positioned and secured as above, and adjusted to a SNUG FIT by pulling on the end of the belt extending from the adjustable latch plate.

- To lengthen the lap belts at these seating positions, place adjustable latch plate at right angle to the belt webbing and pull on latch plate; belt should then slide easily through the adjustment feature.
- To unfasten seat belts, depress push button in center of buckle.

• When no longer in use, front outboard lap belts can be stowed by allowing them to rewind into their retractors.

LAP BELT INSPECTION

- Periodically inspect belts, buckles, latch plates, retractors, and anchors for damage that could lessen the effectiveness of the restraint system.
- Keep sharp edges and damaging objects away from belts and other parts of the restraint system.
- Replace belts if cut, weakened, frayed, or subjected to collision loads.
- Check that the anchor mounting bolts are tight.
- Have questionable parts replaced.
- Keep belts clean and dry.
- Clean only with mild soap solution and lukewarm water.
- Do not bleach or dye belts since this may severely weaken them.

CHILD RESTRAINT

Children in vehicles should be restrained to lessen the risk of injury in accidents, or sudden stops. In using any infant or child restraint system, read and comply with all installation and usage instructions.

All unused lap belts near the child should be stowed properly to help prevent them from striking the child in the event of an accident. Lap belts without storage provisions should have buckles latched and belts adjusted to remove slack.

If a child is traveling in a vehicle not equipped with an appropriate infant or child restraint system, the following precautions should be taken:

1. Infants unable to sit up by themselves should be restrained by placing them in a covered padded bassinet placed crossways in the vehicle (widthwise) on the seat. The bassinet should be securely restrained with the regular vehicle lap belts.

2. Children able to sit up by themselves should be placed on a seat and lap belted. Never allow a child to stand or kneel on any seat or elsewhere in the vehicle, once it is underway.

TRAILER HAULING

Towing a trailer will affect handling, durability and economy. Maximum safety and satisfaction depends upon proper use of correct equipment and avoiding overloads and other abusive operation.

The maximum loaded trailer weight which you can pull with your vehicle depends on what special equipment has been installed. GMC does not recommend towing any trailer OVER 1,000 POUNDS GROSS TRAILER WEIGHT.

To assist in attaining good handling of the Vehicle Trailer Combination, it is important that the trailer tongue load be maintained at approximately 10% of the loaded trailer weight. Tongue loads can be adjusted by proper distribution of the load in the trailer, and can be checked by weighing separately the loaded trailer and then the tongue.

The allowable passenger and cargo load (GVW) of this vehicle is reduced by an amount equal to the trailer tongue load on the trailer hitch.

CAUTIONS

- Trailer brakes are required on trailers over 1,000 lbs. loaded weight.
- 2. DO NOT tap into vehicle's hvdraulic brake system operation of the trailer brake system requires more than 0.02 cu.-in, of fluid displacement from the vehicle's master cylinder. The vehicle's master cylinder fluid capacity will not be sufficient to operate both vehicle and trailer brakes under all conditions of use if more than 0.02 cu.-in, of fluid displacement is required.

3. Whenever a trailer hitch is removed, be certain to have any mounting holes in underbody properly sealed to prevent possible entry of exhaust fumes, dirt or water. (See "ENGINE EXHAUST GAS CAUTION" in the following section.)

OPERATION IN FOREIGN COUNTRIES

Your vehicle's engine is designed to operate on unleaded fuel of approximately 91 research octane number.

If you plan to operate your vehicle outside the continental limits of the United States or Canada, there is a possibility that the best fuels available are so low in anti-knock quality that excessive knocking and serious engine damage may result from their use. To obtain information on the quality of fuels available in the countries in which you plan to travel write to GMC Truck & Coach Division, General Motors Corporation, Pontiac, Michigan 48053 (or in Canada write to General Motors of Canada Limited. Owner Relations Department. Oshawa, Ontario), giving:

- The vehicle identification number (from plate attached to right side of dash panel or from the registration slip or title).
- The country or countries in which you plan to travel.

It is recommended that you do not operate your vehicle in any country not having fuels meeting the requirements of your vehicle's engine as these MAY CAUSE ENGINE DAMAGE for which GMC Truck & Coach is not responsible under the terms of the New Vehicle Warranty or Emission Control Systems Warranty.

SECTION 2

STARTING AND OPERATING VEHICLE

ENGINE EXHAUST GAS CAUTION (CARBON MONOXIDE)

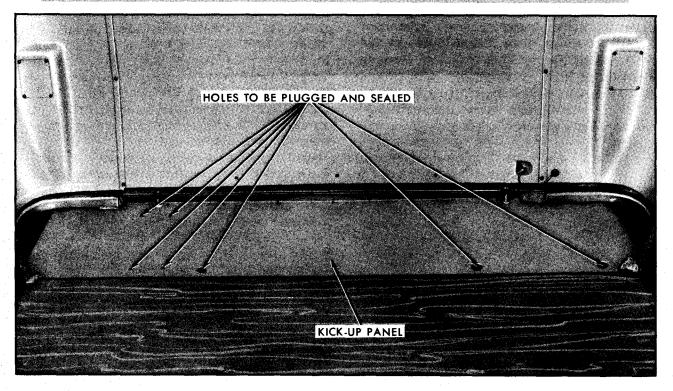
Avoid inhaling exhaust gases because they contain carbon monoxide, which by itself is colorless and odorless. Carbon monoxide is a dangerous gas that can cause unconsciousness and is potentially lethal.

If, at any time, you suspect that exhaust fumes are entering the vehicle from any source have the cause determined and corrected as soon as possible. If you must drive before the cause is corrected, drive only with ALL windows FULLY open and heating or cooling system adjusted for maximum ventilation (see below).

The best protection against carbon monoxide entry into the vehicle body is a properly maintained engine exhaust system, body and body ventilation system. It is recommended that the exhaust system and body be inspected by a competent mechanic:

- Each time the vehicle is raised for lubrication or oil change.
- Whenever a change is noticed in the sound, alignment, or appearance of the exhaust system.
- Whenever the exhaust system, underbody or rear of the vehicle is damaged.
 See your Maintenance Schedule folder for inspection procedure.

To allow proper operation of the vehicle's ventilation system, keep front inlet grille clear of snow, leaves, or other obstructions at all times.



Location of Holes in Kick-up Panel

OCCUPYING A PARKED VEHICLE WITH ENGINE RUNNING FOR AN EXTENDED PERIOD OF TIME IS NOT RECOMMENDED.

Do not run engine in confined areas such as garages any more than needed to move vehicle in or out of area. When vehicle is stopped in an UNCONFINED area with the engine running for any more than a short period of time, adjust heating or cooling system to force outside air into the vehicle as follows:

- 1. On vehicles not equipped with automotive air conditioning, set fan to medium or high speed and upper control lever to any position except "OFF."
- 2. On vehicles equipped with automotive Air Conditioning, set fan to medium or high speed and upper control lever to any position except "OFF".

The two rear windows (if so equipped) should be closed while driving to avoid drawing dangerous exhaust gases into the vehicle through those openings. In addition, it is recommended that roof vent(s) be closed while driving. If, for some reason, a rear window or roof vent must remain open for a period while driving, or electrical wiring or other cable connections to a trailer must pass through the seal between them and the body, the following precautions should be observed.

- Close all windows.
- Adjust heating or cooling system to force outside air into the vehicle as described in Step 1 or 2 above but with fan set at high speed.
- Air vents in or under the instrument panel should be fully open.

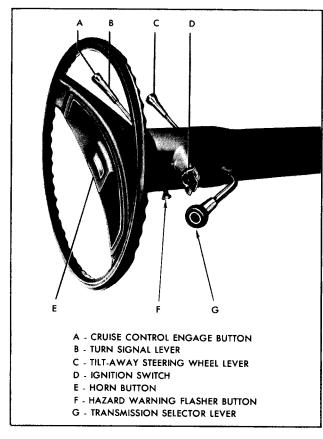
It is important that the inside engine cover be properly seated to prevent possible leakage of exhaust fumes into the vehicle through this opening.

The kick-up panel at the rear of the floor (see illustration) contains holes which may be utilized to facilitate access to the interior for installation of certain interior equipment (i.e., access for wiring, plumbing, etc.) The holes should be plugged and sealed to avoid possible exhaust gas (carbon monoxide) intrusion into the interior of the vehicle.

Whenever operating the optional motor-generator it is essential the left-rear window (if so equipped) of the vehicle be kept closed to prevent possible entry of motor-generator exhaust gases into vehicle. Inspect the motor-generator exhaust system at vehicle lubrication intervals or when a change is noticed in the sound, alignment, or appearance of the exhaust system or if it is damaged. Do not run motor-generator in a confined area, such as a garage.

NOTE: Particular care should be taken to prevent the possibility of carbon monoxide exposure when the vehicle is modified for recreational or other usage. Additionally, some recreational vehicle appliances (such as lights, refrigerators, stoves, heaters) may generate carbon monoxide and should be used only if there is adequate ventilation.

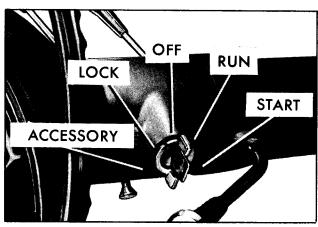
STEERING COLUMN CONTROLS



Steering Column Controls

ANTI-THEFT STEERING COLUMN LOCK

The anti-theft ignition switch, located on the right side of the steering column, has five positions:



Anti-Theft Steering Column Lock

- ACCESSORY—Permits operation of electrical accessories when the engine is not running. To engage, push key in and turn toward you (counterclockwise.)
- LOCK—Normal parking position, locks ignition and provides added theft protection by preventing normal operation of steering wheel and shift controls. Key cannot be turned to "LOCK" position and removed until transmission is placed in "PARK."
- OFF—Permits turning engine off without locking steering wheel and shift controls.
- RUN-Normal operating position.
- START—Permits engagement of starter.

NOTE: The anti-theft steering column lock is not substitute for the parking brake. Always set the parking brake when leaving the driver's seat unattended.

If difficulty is experienced in turning the ignition key and lock knob to unlock the ignition, attempt to turn the steering wheel as hard as possible in the direction the wheels are turned. At the same time turn ignition-lock knob in a direction with as much effort as you can with vour own hand. Do not attempt to use a tool of any kind to apply additional force on the lock knob, as this could break the knob.

PARKING

When leaving the driver's seat unattended:

- SET PARKING BRAKE FIRST. (See note on page 19.)
- Place transmission selector lever in "PARK."
- Turn key to LOCK position.
- Remove key from steering column lock (the buzzer will remind you).
- Lock entrance door if leaving vehicle.

NOTICE: Do not leave your vehicle unattended with the engine running. If the engine should overheat while your vehicle is unattended, the temperature warning light or gauge would go unheeded which could result in extensive damage to your vehicle.

STARTING ENGINE

- 1. Apply the parking brake.
- 2. Place the transmission selector in "P" or "N" ("P" is preferred). A starter safety switch is designed to prevent starter operation while the transmission selector is in any drive position. (If it is necessary to re-start the engine with the vehicle moving, place the selector lever in "N".)
- 3. Depress accelerator pedal and activate starter as outlined in the following, for different conditions.

COLD ENGINE

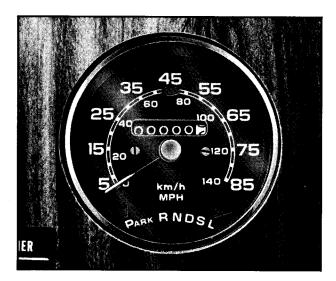
Fully depress accelerator pedal and slowly release. With foot off the pedal, crank the engine by turning the ignition key to the "START" position— release when engine starts. If engine starts but fails to run, repeat this procedure. When engine is running smoothly (approx. 30 seconds) the idle speed may be reduced by slightly depressing the accelerator pedal and then slowly releasing.

CAUTION

Extended running of the engine (5 minutes or more) without depressing the accelerator pedal, could cause damage to the engine or exhaust system due to overheating.

WARM ENGINE

Depress accelerator pedal about halfway and hold while cranking the engine.



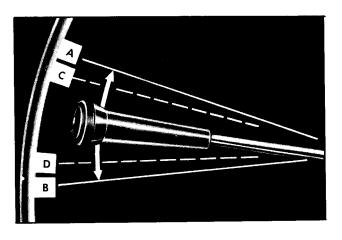
Transmission Shift Indicator and Speedometer

EXTREMELY COLD WEATHER (BELOW 0° F.) (-18° C.) OR AFTER VEHICLE HAS BEEN STANDING IDLE FOR SEVERAL DAYS

Fully depress and release accelerator pedal two or three times before cranking the engine. With foot off the accelerator pedal, crank the engine by turning the key to the start position—release key when engine starts.

IF ENGINE FAILS TO START:

- First, fully depress and release the accelerator pedal several times, then remove foot from accelerator pedal and crank engine.
- If engine still does not start, fully depress the accelerator pedal and hold to the floor while cranking the engine.
- If the engine has been flooded with gasoline, it may start to run but not have enough power to keep running. In this case, continue cranking with the accelerator pedal fully depressed until the engine cleans itself of excess gasoline and runs smoothly.
- If engine doesn't crank properly due to a discharged main battery (automotive battery), place the battery switch in the "BAT BOOST" position. Return the switch to the "BAT NORMAL" position when engine starts.



Turn Signal Lever

NOTE: Do not continue cranking the engine for more than 30 seconds at a time to prevent starter overheating.

AUTOMATIC TRANSMISSION

The transmission selector lever is located on the right side of the steering column and the shift indicator is located in the bottom section of the speedometer cluster on the dash.

- "PARK"—Transmission lock when parking or while starting the engine. Pull the selector lever towards you to select or release this position. Never move the selector lever to "PARK" position unless the vehicle is completely stopped. "NEUTRAL" is the only other position in which your vehicle may be started.
- REVERSE "R"—For backing the vehicle. Bring the vehicle to a complete stop before moving the selector lever into Reverse.
- NEUTRAL "N"—The out-of-gear position. It is provided for starting a stalled engine while the vehicle is in motion or running the engine while standing with brake applied. DO NOT COAST IN NEUTRAL.
- DRIVE RANGE "D"—The driving range driving. This highway for city and permits the transmission to position operate through its complete range of gear ratios and to select automatically the proper ratio for road and conditions.

- SUPER RANGE "S"—Used when super performance is needed for increased acceleration in traffic, hill climbing, or "Engine Braking" down-hill. The selector lever may be moved from "D" to "S" and vice versa, under most operating conditions. "SUPER" should not be used at speeds above 75 MPH.
- LOW "L"—Available for heavy pulling through mud or sand and for engine braking when descending steep hills. The selector lever may be moved to "L" at any speed but the transmission will only shift automatically into Low range when the vehicle speed is under approximately 40 MPH. The transmission will not upshift from Low range as long as the selector lever is in the "L" position.

CAUTION

Before descending a steep or long grade, down a mountain or hillside, reduce speed and shift into a lower gear. Use the lower gear ranges to control vehicle speed. Avoid prolonged or frequent application of brakes which could overheating and thus reduce brake effectiveness. Use caution when shifting into lower range or lower gear on slippery surfaces vehicle moving-abrupt engine braking action could cause the front wheels to skid, possibly leading to loss of vehicle control.

• FORCED DOWNSHIFT—When additional acceleration is desired to pass moving vehicles or to climb steep grades at speeds between approximately 35 and 65 MPH, the transmission can be downshifted by depressing the accelerator pedal completely to the floor. It is also possible to obtain a forced downshift in "DRIVE" range at speeds under 35 MPH by depressing the accelerator pedal part way down.

TURN SIGNAL AND LANE CHANGE FEATURE

Whenever a right or left turn is intended, when changing lanes, or when pulling away from the curb, use the turn signals.

- FULL TURN—For normal turns, move the turn signal lever to position "A" for right turn and "B" for left turn. Lever will remain in position without manual effort until the turn is completed, then cancel automatically.
- LANE CHANGE—Move lever to the detent position "C" for change to right lane or to "D" for change to left lane. Hold lever in position until lane maneuver is completed, then release. Lever will return to "OFF" position.



For operation of hazard warning flasher, see "In Case of Emergency" later in this manual.

HORN CONTROL

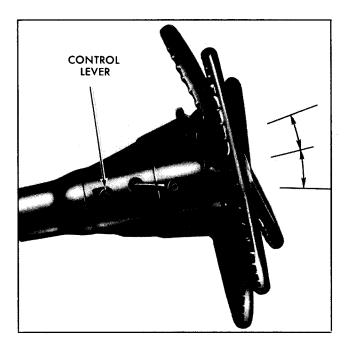
The horn is actuated by depressing the rectangular shaped GMC button located in the center of the steering wheel.

POWER STEERING

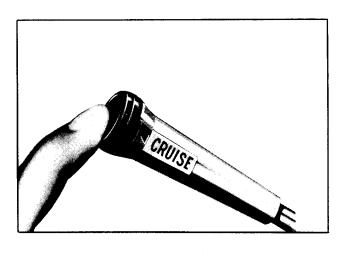
If the steering system power assist fails due to some malfunction, or because the engine has stalled, the vehicle can still be steered. However, much greater effort is required, particularly in sharp turns.

TILT STEERING WHEEL

The tilt steering wheel can be tilted up above normal position to provide additional room for entrance and exit as well as selected driving positions above or below normal height.



Tilt Steering Wheel



Cruise Control Lever

The tilt mechanism is operated by lifting up on the small control lever, on the left side of the steering column just below the directional signal lever, then moving the steering wheel to the selected position and releasing the lever.

CRUISE CONTROL

The optional Cruise Control is an automatic speed control system which is designed to allow the vehicle to hold a

selected speed of approximately 30 MPH or higher—depending on engine limitations—thus increasing comfort and economy on turnpikes, and other non-congested highways.

- TO OPERATE-The Cruise Control engagement button is located in the end of the turn signal lever. Accelerate the vehicle to the desired speed and momentarily push in the engagement button, take off your foot the accelerator and this speed will be maintained.
- TO RESET A T FASTER Α SPEED-Accelerate the vehicle to the desired higher speed, push in the engagement button fully and release slowly.
- TO RESET AT A SLOWER SPEED—Depress the engagement button fully and HOLD. Allow vehicle to

- decelerate. When vehicle reaches desired speed, release the engagement button slowly.
- FOR PASSING—You can increase your speed by depressing accelerator pedal. When you remove your foot from the pedal, the vehicle will slow down to the cruising speed set prior to the acceleration.
- TO DISENGAGE—Lightly apply the brake pedal to disengage system.

CAUTION

DO NOT use the Cruise Control when conditions are not suitable for maintaining a constant speed, such as in heavy or varying traffic, or on winding or slippery roads. With the Cruise Control engaged, removing foot from the accelerator pedal does not permit engine speed to return to idle.



Vehicle Floor Controls

FLOOR CONTROLS

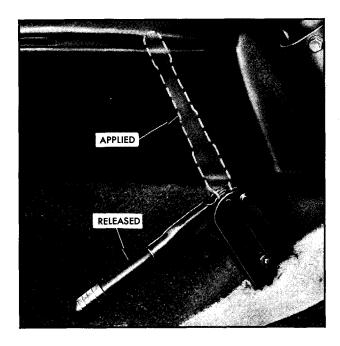
POWER BRAKE SYSTEM

This vehicle is equipped with a Dual Hydraulic Split System With Power Assist. It is also equipped with disc type brakes on the front wheels and drum type brakes on the tandem rear wheels.

NOTE: Operation of the brake system warning light is covered (on page 21) (in the section on "Instrument Panel and Controls.")

CAUTION

Driving through deep water may wet brakes and adversely affect performance . so brake that vehicle will not slow down at the usual rate, and may pull to the right or left. Applying the brakes lightly will indicate whether they have been so affected. To dry them quickly, lightly apply the brakes while maintaining a safe forward speed with an assured clear distance brake ahead until performance returns to normal.



Parking Brake Control

- On your vehicle, if power assist to the brakes is interrupted due to a stalled engine or some malfunction, two or more brake applications can normally be made using reserve power.
- If the brake pedal is held down, the system is designed to bring the vehicle to a full stop on reserve power. However, the reserve power is partially depleted each time the brake pedal is applied and released. Do not pump brakes when brake power assist has been interrupted, except when necessary in order to maintain steering control on slippery surfaces.
- When reserve power is exhausted, the vehicle can still be stopped by applying greater force to the pedal.

SELF-ADJUSTING BRAKES

Brakes on this vehicle (except for the Parking Brake) are self-adjusting, designed to eliminate periodic adjustments.

Drum brake adjustments are made automatically as the brakes are applied while vehicle is moving backwards.

Disc brake adjustment is made automatically with each brake application.

- If excess brake pedal travel develops, drive alternately backward and forward several times and apply brakes firmly in each direction.
- See your dealer if normal pedal travel is not restored, or if there is a rapid increase in pedal travel, which could be a sign of other brake trouble. See your dealer also if adjustment of the parking brake is required.

NOTE: "Riding The Brake" by resting your foot on the brake pedal when not intending to brake can cause abnormally high brake temperatures, excessive lining wear and possible damage to brakes in addition to wasting gasoline.

REMINDER: Front disc brakes have a built-in wear indicator that is designed to make a high frequency, squealing, or cricket-like warning sound when the linings are worn to where replacement is required. The sound will occur intermittently or continuously when wheels are rolling, but will disappear when the brake pedal is applied firmly. See also the various brake checks listed in the maintenance schedule folder.

PARKING BRAKE

- To set parking brake, pull up the handle located on the floor against the left wall, below the instrument panel.
- For increased holding power, first depress regular brake pedal with the right foot, and hold it while setting the parking brake with left hand.
- To release parking brake push the handle down.
- As a reminder, the "PARK BRAKE" reminder light is designed to come on whenever the parking brake control is not fully released, and the ignition is on.
- Never drive vehicle with parking brake set as this may overheat or otherwise damage rear brakes.

The amount of force required to apply parking brake can be adjusted by turning a tension adjustment knob located at the upper end of the lever. This also adjusts the degree of brake application. The greater the force required at the lever the greater the degree of brake application.

NOTE: The parking brake should be set first whenever the driver's seat is left unattended.

If the vehicle is parked on a grade and transmission is placed in "PARK" before the parking brake is set, the weight of the vehicle may exert so much force on the parking pawl in the transmission that the transmission selector lever cannot be pulled out of "PARK." To later prevent this, the parking brake should be applied BEFORE moving the transmission selector lever to "PARK." When preparing to move the vehicle, the shift indicator should be moved out of the "PARK" position BEFORE releasing the parking brake. It is good driving practice to set the parking brake first, and release the transmission from "PARK" first at all times, even on the level. If "torque lock", as this condition is called, does occur, it may be necessary to have another vehicle nudge this vehicle up hill, to take some of the pressure off the transmission while the driver pulls on the transmission selector lever.

HEADLIGHT DIMMER SWITCH

To obtain high or low beam headlights, push the foot dimmer switch located on the floor to the left of the brake pedal. Each time the switch is depressed, the light beam changes. A headlamp beam indicator, on the face of the speedometer, is designed to light up when the headlights are on high beam.

HEADLIGHT "FLICKER"

The headlight circuits are protected by a circuit breaker in the light switch. An overload on the breaker will cause the lights to "flicker" on and off, or in some cases to remain off. If this condition developes, have your headlight electrical circuit checked immediately.

INSTRUMENT PANEL AND CONTROLS

SPEEDOMETER AND ODOMETER

The speedometer indicates the forward speed of the vehicle in miles-per-hour and kilometers per hour. The odometer registers the accumulated mileage the vehicle has been driven. Also, located in the speedometer cluster are the turn signal indicators which show direction and proper operation of the turn signals, the high beam indicator light, and the shift indicator.

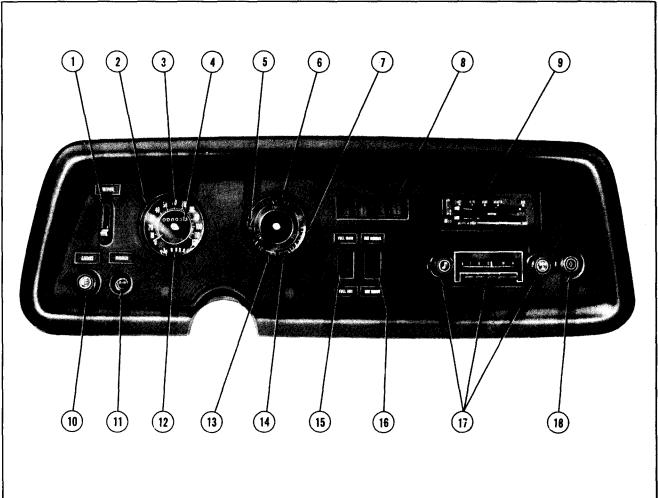
FUEL GAUGE

This gauge shows the approximate fuel level in the main tank when fuel selector switch is in the "FUEL MAIN" position, and the fuel level in the auxiliary tank when fuel selector switch is in the "FUEL AUX" position. The pointer will indicate the correct positions only when the ignition is in the "ON" position.

Since both fuel tanks are interconnected, the indicated level is designed to read the same (with the switch in either position) until approximately 60% of the total fuel capacity has been used. See "Fuel Selector Switch" later in this section.

TEMPERATURE GAUGE

This gauge registers the temperature of the engine coolant. The center area of the water temperature gauge marks the normal operating range. However, if the needle moves beyond the center area marks into the "H" side or hot area of the gauge, stop the engine as soon as possible, and remain stopped until the cause of the overheating is determined.

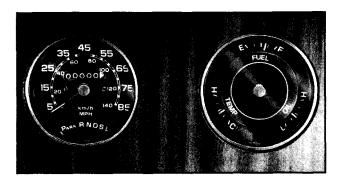


- 1. WINDSHIELD WIPER CONTROL
- 2. SPEEDOMETER
- 3. HIGH BEAM INDICATOR
- 4. ODOMETER
- 5. TEMPERATURE GAUGE
- 6. FUEL GAUGE

- 7. OIL PRESSURE GAUGE
- 8. WARNING LIGHTS
- 9. HEATER/A.C. CONTROLS
- 10. LIGHT SWITCH
- 11. WINDSHIELD WASHER
- 12. SHIFT INDICATOR

- 13. GENERATOR LIGHT
- 14 BRAKE SYSTEM WARNING LIGHT
- 15. FUEL SELECTOR SWITCH
- 16. BATTERY BOOST SWITCH
- 17. RADIO & CONTROLS
- 18. CIGAR LIGHTER

Instrument Panel



Speedometer and Gauge Clusters

OIL PRESSURE GAUGE

This gauge registers engine oil pressure. The consistency of the oil in a cool engine will cause a high reading when the engine is first started. As the engine warms, the pressure will recede to normal. With the engine warmed up to normal operating temperature, minimum pressure at idle should be slightly above the "L" graduation (8 PSI). At normal operating speeds, minimum pressure should be

between the second and middle graduations (35 PSI). Should the pressure drop below these minimums, stop the engine immediately and check the cause of the low oil pressure. This could be the result of a dangerously low oil level in the crankcase. Driving the vehicle with low oil pressure can cause extensive engine damage.

CHARGING SYSTEM WARNING LIGHT

Located to the right of the temperature gauge is the charging system warning light. A red light "GEN" will appear with the ignition key in the "ON" position and the engine not running. This light lets you know the warning signal is operational. Should the light fail to come on, see your MotorHome dealer. When the engine is started, the warning light should go out and remain out. If the light remains on when engine is running, have your dealer locate and correct the trouble as soon as possible.

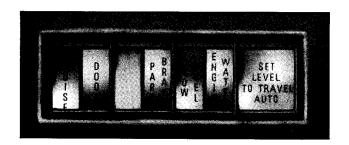
BRAKE SYSTEM WARNING LIGHT

The service brake system is a dual system designed so that one part will provide some braking action in the event of loss of hydraulic pressure in the other part of the system. If the red warning light, located to the left of the oil pressure gauge, comes on and stays on when the ignition is on and after the brakes have been firmly applied, it may indicate that there is a malfunction in one part of the brake system.

- As a check on bulb condition the light should glow during engine starting.
- Have system repaired if light does not come on during check.
- This warning light is not a substitute for the visual check of brake fluid level required as part of normal maintenance.

WHAT TO DO IF LIGHT COMES ON:

• The service brake system is partially inoperative.



Warning Light Cluster

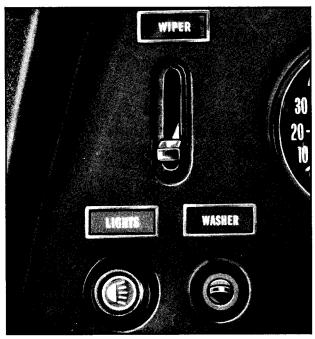
- 1. Pull off the road and stop, carefully—remembering that:
- Stopping distances may be greater.
- Greater pedal effort may be required.
- Pedal travel may be greater.
- 2. Try out brake operation by starting and stopping on shoulder of road—then:
- If you judge such operation to be safe, proceed cautiously at a safe speed to nearest service outlet for repair, or
- Have vehicle towed to dealer for repair.

Continued operation of the vehicle in this condition is dangerous.

TELL-TALE WARNING LIGHT CLUSTER

A cluster of indicator lights is located just to the left of the heater controls. These are designed to inform the driver of the status of certain systems or conditions of which he should be aware. Among these are:

- "CRUISE" (Optional Equipment)—This indicator is designed to glow GREEN whenever the Cruise Control System is engaged and working.
- "DOOR"—The door light is designed to warn the driver that the entrance door is not properly closed.
- "PARK BRAKE"—As a reminder, the "PARK BRAKE" brake reminder light is designed to glow whenever the parking brake control is not fully released and the ignition is on.



Windshield Wiper, Washer, and Headlight Controls

• "LOW FUEL" (Optional Light)—The low fuel warning light in your vehicle is designed to come on when the main tank has less than five gallons of fuel left and the fuel selector switch in in the "FUEL MAIN" position. If, at any point after this, the fuel selector switch is changed to "FUEL AUX" the "LOW FUEL" warning light will then go out and come on again when the fuel in the auxiliary tank goes below five gallons. At this point both fuel tanks of your vehicle are nearly depleted.

- "ENGINE WATER"—This indicator light is designed to warn the driver that the coolant level in the radiator is abnormally low. (See Servicing Details later in this manual, before attempting to refill cooling system).
- "SET LEVEL TO TRAVEL AUTO"—This light is designed to inform the driver that the optional Electro-Level System TRAVEL switch should be set to the "AUTO" position before driving the vehicle. (See "Electro-Level System" later in this section for additional details).

HEADLIGHT SWITCH

The headlight switch serves four functions:

- 1. Pulling the switch half-way out provides parking lights, instrument panel lights, tail lights, side marker lights, and clearance and identification lights.
- 2. Pulling the switch all the way out provides all driving lights,—this includes headlights, plus those mentioned above.
- 3. To dim instrument panel lights, turn switch knob clockwise.
- 4. To operate the dome lights, turn switch knob fully counterclockwise.

WINDSHIELD WIPER LEVER

The windshield wipers are variable speed, and hydraulically powered. The lever control, on the left side of the instrument panel varies the speed of the wiper blades from stop ("DOWN" position) to fast (extreme "UP" position).

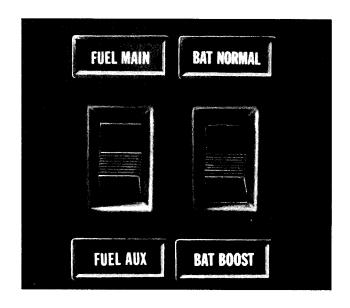
WINDSHIELD WASHERS

The windshield washers are controlled by the washer switch located under the windshield wiper lever. To operate the washers, turn the wipers to an ON position, then push down on the switch until the desired amount of washer fluid has been directed to the windshield.

- Check washer fluid level regularly—do it frequently when the weather is bad.
- Use a fluid such as GM OPTIKLEEN to prevent freezing damage, and to provide better cleaning.
- Do not use radiator antifreeze in windshield washer; it could cause paint damage.
- In cold weather, warm the windshield with defrosters before using washer—to help prevent icing that may seriously obscure vision.

FUEL SELECTOR SWITCH

The fuel selector switch, located below warning light cluster, the has two "FUEL positions—"FUEL MAIN" and AUX." This switch allows the driver to change the fuel pick-up and fuel gauge sending unit from the main tank, as it goes empty, to the auxiliary tank which will normally contain 7 to 9 gallons of fuel. It is recommended that any time the fuel system is filled, this switch be put in the "FUEL MAIN" position and left there until auxiliary fuel is needed.



Fuel Tank and Battery Switches

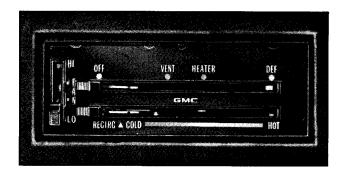
BATTERY BOOST SWITCH

The GMC Dual Battery System provides power from two batteries to the vehicle's 12-volt electrical system either combination or singularly. The components used to provide charging and/or switching conventional, except for assembly with which both batteries will receive charging current whenever vehicle is running. The diode assembly has separate outputs to the two batteries and provides isolation between the batteries and their associated circuits whenever the engine is not running.

The main battery (or automotive battery) supplies power to the chassis circuit; i.e., engine, external lights, etc. The auxiliary battery powers the vehicle's internal area; i.e., internal lights, etc.

The battery switch should be left in the "BAT NORMAL" position, except when additional power is needed for either battery circuit. If this is desired, change switch to "BAT BOOST" position. After use, it is recommended that switch be returned to the "BAT NORMAL" position.

NOTE: If the battery boost switch is left in the "BAT BOOST" position for extended periods this can result in both batteries being discharged.



Automotive Heating Systems Controls

The auxiliary battery will recharge itself while the vehicle's engine is running.

CIGAR-CIGARETTE LIGHTER

Push the lighter in all the way to operate. When it is heated sufficiently to use, it is designed to "snap" back to normal position with noticeable sound. Avoid holding the lighter in by hand while it is heating.

For added safety, the cigar-cigarette lighter has a heat-sensitive terminal which is designed to melt and break the circuit if the lighter becomes overheated.

HEATING SYSTEM (WITHOUT AUTOMOTIVE AIR CONDITIONER)

The heating system controls are located on the instrument panel to the right of the steering column. There are three separate controls; "FAN" lever to control blower operation; "RECIRC," speed of "COLD," "HOT" lever to temperature "OFF," of air, "DEF" "HEATER," lever to control direction of air flow. The "FAN" lever works vertically and the other two levers work horizontally. The three levers may be placed in any combined position to deliver the climate conditions most desirable at any given time.

• "FAN"—The fan switch has four positions; "LO" and three blower speeds ranging to "HI." Fan will operate whenever the key is in the "RUN" or

"ACCESSORY" position. In order to operate the fan in the "HI" position the engine must be running.

"OFF," "VENT," "HEATER," "DEF"-With the lever in the "OFF" position the system is off except for the blower. With the lever in the "VENT" position 100% outside air enters the driver's compartment. The air enters through the dash mounted outlets and through the heater outlets. Temperature of incoming air may be controlled by moving the "RECIRC," "COLD," "HOT" (temperature) lever to desires position. Any one of the blower speeds may be selected.

With the lever in the "HEATER" position, air will flow through the heater floor distributor outlet (with slight flow of air to the defroster outlet). For maximum heat, move temperature lever to "HOT" position and "FAN" switch lever to "HI" position. Heating system output can be varied by moving temperature lever and "FAN" lever to different positions.

With lever in the "DEF" position, the system operates the same as in the "HEATER" position except most of the air flow will be through the defroster outlets at the windshield.

- "RECIRC," "COLD," "HOT"—This lever, used in conjunction with the system selector lever ("OFF," "VENT," "HEATER," "DEF") and the "FAN" switch lever, will control the temperature of the output air being distributed.
- Clear windshield, rear window, outside mirror, and all side windows of ice and snow before driving vehicle.
- Operate blower on "HI" for a few seconds before moving the vehicle, to clear the air intake of snow to further reduce the possibility of fogging on inside of windshield.

AUTOMOTIVE AIR CONDITIONER

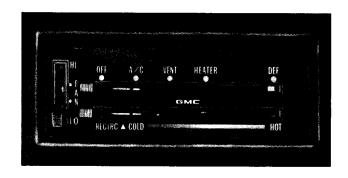
The Automotive Air Conditioning System offers year-round driving comfort. In addition to providing circulation of cool air during hot weather, the system can provide warm air in cold weather and dehumidify outside air in humid weather.

Combined air conditioning and heating are located system controls on instrument panel in the upper right-hand corner. There are three separate controls: "FAN" lever, to control speed of blower; "OFF." "A/C," "VENT," "HEATER," "DEF" lever to control direction of air flow and which system is to be operated; "RECIRC," "COLD," "HOT" lever control the temperature of the air. The levers may be placed in many combined positions to deliver the climate conditions most desirable at any given

- "FAN"—The fan switch has four positions; "LO" and three blower speeds ranging to "HI." Fan will operate whenever the key is in the "RUN" or "ACCESSORY" position. In order to operate the fan in the "HI" position the engine must be running.
- "OFF," "A/C," "VENT," "HEATER," "DEF"—With the lever in the "OFF" position the system is off except for the blower. With the lever in the "A/C" position the air conditioning system is activated.

With the lever in the "VENT" position, outside air enters the driver's compartment. This setting is for use during periods of less severe heat and humidity. air flow is identical to air flow in "A/C" position. however, the air conditioning compressor is not operating. Temperature of incoming air may be controlled by moving temperature lever to the desired position. Any one of the blower speeds may be selected.

With the lever in the "HEATER" position, air will flow through the heater floor distributor outlets, and the two center instrument panel outlets (with a slight flow of air to the defroster

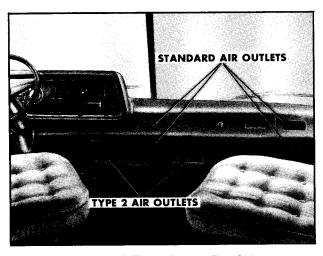


Automotive Air Conditioner Controls

outlet). For maximum heat, move the temperature lever to "HOT" position and "FAN" switch lever to "HI" position. Heating system output can be varied by moving temperature lever and "FAN" lever to different positions.

With the lever in "DEF" position, system operates the same as in the "HEATER" position except most of the air flow will be through the defroster outlets at the windshield.

- \bullet TYPE 1 "RECIRC," "COLD," "HOT"-This lever, used in conjunction with the system selector lever ("OFF," "A/C," "VENT," "HEATER," "DEF") and the "FAN" switch lever, will control the temperature of the output air being distributed. With the lever in "RECIRC" position (and the upper lever "A/C" position) the blower the "HI" automatically goes to providing the engine is running. This position uses 80% recirculated air. This setting will provide maximum cooling. In combination with "A/C" setting moving the temperature lever to the "COLD" provides 100% outside position Further movement of the temperature lever to the right (toward position) will heat the dehumidified air to the desired temperature. The "FAN" switch can be set to meet air flow requirements.
- TYPE 2 "RECIRC," "COLD,"
 "HOT"—The Type 2 lever differs in
 function, though not in appearance from
 the Type 1 lever. The Type 2 system is
 identified by additional air outlets,
 located below the instrument panel (as

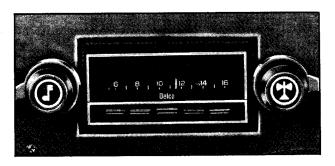


Location of Type 2 Air Conditioner
Outlets (Typical)

shown). With the lever in the "RECIRC" position, the additional air outlets are activated to provide maximum cooling. outside air is used exclusively, 100% regardless of lever position. The blower speed may be varied by moving the "FAN" position. The "COLD" switch "HOT" positions allow for modulation using the temperature standard air outlets, as in the Type 1 system.

CAUTION

Operate in "DEF" position for 30 seconds before switching to "A/C." This will remove humid air from the system and minimize rapid fogging of the glass which can occur if humid air is blown onto a cool windshield.



Push Button AM Radio

- Clear windshield, rear window, outside mirrors, and all side windows of ice and snow before driving vehicle.
- Operate blower on "HI" for a few seconds before moving the vehicle, to help clear the air intake of snow to further reduce the possibility of fogging on inside of windshield.

RADIOS AND TAPE DECK

PUSH BUTTON "AM" RADIO

The "ON-OFF" switch is on the left-hand center knob with the volume control. The left-hand outside knob varies the tone response of the receiver. The right-hand center knob is used to select the station desired. The right-hand outside knob adjusts the volume of front and rear speakers.

In addition to the manual controls, this radio provides five push buttons with which to automatically select pre-set stations. To pre-set, pull the push button "out" as far as it will go, tune in the desired station manually, and then push the button "in."

Repeat this operation for each push button.

AM-FM RADIO

In addition to providing standard AM reception, this set permits you to receive clear static-free FM broadcasts. Move the slide bar, above the push buttons to the left right or to select \mathbf{AM} reception. All other controls remain the same as described for push button radios. FM broadcasts may be received as far as miles from the sending station. depending on the power of the station and the existing terrain. In fringe areas, it may be possible to retune the radio slightly to maintain peak reception. If not, retune to a closer or stronger FM station or switch to AM operation. Push buttons may be set for both AM or FM stations as follows:

• Place slide bar in AM position.



AM-FM Stereo Radio with Tape Deck (Tape Removed)

- Pull push button out as far as it will go, tune in desired AM station manually and then push button in to LOCK-IN position.
- Repeat for each remaining push button.
- Place slide bar in FM position and repeat procedures outlined for AM band setting.

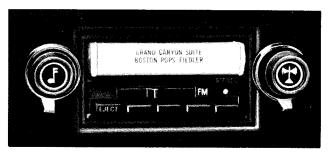
IMPORTANT: Bands should not be changed if push button is unlocked or radio may be damaged.

ANTENNA

The radio antenna is mounted on top of the vehicle. If necessary, adjustments for maximum antenna effectiveness on AM can be made by your authorized GMC MotorHome dealer.

STEREO RADIO

Stereo receivers permit FM stereo reception with the AM-FM radio. Radio controls are used to turn the set on and off and for station selection. For most stereo effect, the pleasing speakers are criss-crossed, with the left front and right rear speakers reproducing the left channel. and the opposite speakers reproducing the right channel. Balancing the speakers is not required as this adjustment has been made at the factory. Should it become necessary to make this adjustment, see your GMC MotorHome dealer. The indicator light will be on when the radio is tuned to an FM stereo station. Most broadcasts on such stations will be in stereo.



AM-FM Stereo Radio with Tape Deck (Tape Installed)

To Tune Your Stereo Radio

- Tune radio to an FM Stereo station (one which makes the indicator light come on with a steady glow).
- Tune the lever behind the station selector knob until volume from front and rear speakers sounds equal.
- Regulate volume and tone controls as required.

STEREO TAPE SYSTEM

The optional Stereo Tape Player provides prerecorded stereo programs for your enjoyment

To play, insert cartridge through tape door with label side up and open end in first. Tape will play through all four programs in succession, then replay in same sequence. Balancing the speakers is not required as this adjustment has been made at the factory. Should it become necessary to make this adjustment, see your GMC MotorHome dealer.

- 1. Rotate fader control until volume from front and rear speakers sounds equal.
- 2. Regulate volume and tone controls as desired.
- 3. To change program track, push in volume control knob and release; player will index to next track.
- 4. Push in the "eject" button to remove tape cartridge from player.



Electro-Level System Control Panel

Cleaning and Care

Every 100 hours of operation, or if tape slips and runs slowly, the capstan (revolving metal post), head and tape guide should be cleaned with a cotton-tipped swab moistened with alcohol (do not use carbon tetrachloride). To clean the capstan, trip the "ON-OFF" switch at the rear of the receptable with your finger and hold the swab against the rotating capstan.

IMPORTANT: When tape player is not in use, remove the cartridge and store it in a cool, dry place out of direct sunlight. If the cartridge is not removed, the radio may be inoperative and possible roller damage to the tape unit could occur.

MOBILE RADIO TRANSMITTERS

Mobile radio transmitting equipment is Communication subject to Federal must Commission regulations and installed by a qualified radio technician. specific installation instructions for The radio transmitters will vary depending upon the radio equipment used. Mobile telephone equipment installed by your local telephone citizens radios company, band and electronic garage door openers will not adversely affect vehicle operation. In the mobile radio other type of event any installed, further transmitter is to be

instructions are required so that vehicle operation will not be adversely affected. Contact **GMC** Truck & Coach Division, General Corporation, **Technical** Motors Service Department, Pontiac, Michigan 48053 in Canada, contact General Motors of Canada Limited, Product Service Department, Oshawa, Ontario).

ELECTRO - LEVEL SYSTEM

The optional Electro-Level System provides the ability to level the vehicle at campsite or parking area where the surface is not level. This system can override the automatic leveling feature that maintains a constant ride height at the rear tandem suspension. The Electro-Level System can raise or lower the rear of the vehicle approximately 4 inches from normal ride height.

The Electro-Level controls are located to the right of the steering wheel at the lower portion of the dash panel.

NORMAL OPERATION

The controls consist of three rocker switches that junction to automatically or manually level the vehicle. The center rocker switch (TRAVEL) is used for a travel or hold mode, and the two outer rocker switches (RAISE-LOWER) are used to raise or lower the vehicle.

Driving

A reminder light in the dash panel is designed to light any time the engine is running and the transmission selector lever is moved to "D" (Drive Range). The normal position for the RAISE-LOWER switches should be placed in "OFF". The TRAVEL switch should be moved to "AUTO" for the first five minutes, if vehicle has been in a raised or lowered position. Then move the switch to "HOLD" after ride height is achieved.

It is not necessary to move the TRAVEL switch to "AUTO" if vehicle has not been leveled at a campsite or vehicle load has not changed significantly.

NOTE: The "HOLD" position is to be used for normal highway driving, when the vehicle is in operation. This allows the vehicle to maintain a designed ride height and eliminates unnecessary operation of the air compressor.

CAMPSITE OR PARKING AREA

The two "RAISE-LOWER" switches may be used as necessary to raise or lower the vehicle. When using Electro-Level at a campsite the vehicle engine need not be running to operate the system, however, the ignition switch must be in the "ON" or "ACCESSORY" position.

"RAISE"—With a rocker switch in this position the appropriate side of the vehicle will raise rear of vehicle to any desired position, up to a maximum of approximately 4 inches above normal ride height. When desired height is reached, return rocker switch to "OFF" position.

"LOWER"—With a rocker switch in this position the appropriate side of the vehicle will lower a maximum of approximately 4 inches below the normal ride height. In order to maintain a desired height, return rocker switch to "OFF" position.

NOTE: It is possible that the air compressor may operate for a short period when a rocker switch is in "LOWER" position.

IMPORTANT: When both sides of the vehicle have been leveled be sure the TRAVEL switch is moved to "HOLD" and turn ignition switch to "OFF".

A glass of water or a bubble type level when placed in a normally level location inside the vehicle can be used to assist in determining the desired level condition.

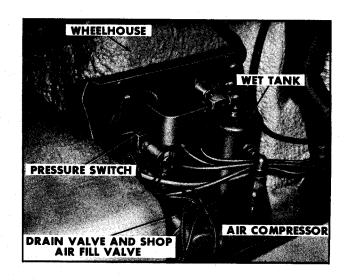
OFF-ROAD OPERATION

In order to gain maximum ground clearance both RAISE-LOWER switches should be placed in the "RAISE" position. It is recommended that a speed of 15 MPH should not be exceeded since the air suspension in this position has maximum pressure supplied.

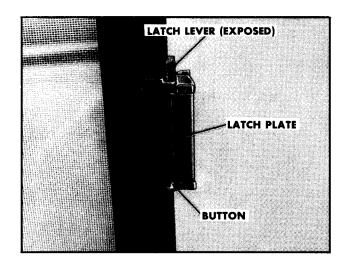
EMERGENCY OPERATION

In the event of total air loss for any reason, the vehicle may be driven at a speed of 5-15 MPH (depending on road surface) with the rear of the vehicle in the fully "DOWN" position. Care should be exercised since ground clearance at the rear will be at a minimum. Vehicle should be taken to nearest dealer.

Depending on the type of failure, it may be possible to add air to the rear suspension wet tank (shop air fill valve located on tank—see illustration) by filling reservoir at a local gas station (DO NOT EXCEED 120 PSI). Be sure the engine is running or the ignition switch is turned to "ON" or "ACCESSORY" position, and the outer rocker switches in "RAISE" position until vehicle is leveled. Then move RAISE-LOWER switches to "OFF" and TRAVEL switch to "HOLD".



Electro-Level Components



Window Latch (Unlocked)

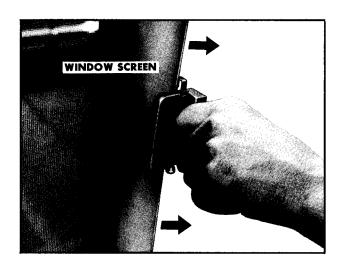
MAINTENANCE

No routine maintenance is required on the Electro-Level System other than draining moisture in the wet tank and cleaning the air compressor filter. Refer to SERVICE AND MAINTENANCE section later in this manual for "REAR SUSPENSION" maintenance details.

WINDOWS

The side windows in the driver's compartment are operated by squeezing the latch and sliding the window to the rear.

The optional sliding windows, if equipped with center mounted latches, are operated as follows:



Opening Window

SLIDING WINDOWS

The horizontal and optional vertical sliding windows in your vehicle are equipped with a locking type latch.

To Open Window

Unlock window latch by pushing upward on button, until latch lever is exposed (see illustration). Firmly grasp latch plate, and slide window to desired position (see illustration).

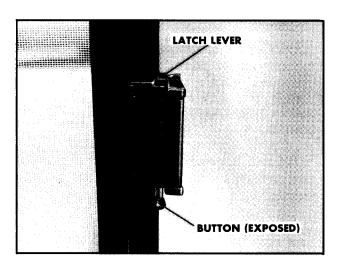
To Close Window

Grasp latch, and slide window to the fully closed position. Push downward on latch lever, until button is exposed (see illustration) to lock sliding window in position. To be sure window latch assembly is locked, depress latch plate and carefully attempt to open window. If window opens repeat "To Close Window" procedure. If window latch assembly still does not lock return vehicle to your dealer for service.

ONAN MOTOR GENERATOR

IMPORTANT: Before operating motor generator see the carbon monoxide caution at the beginning of this section.

The motor generator is located in an exterior compartment in the left rear corner of the vehicle.



Window Latch (Locked)

The unit is mounted on slides and can be pulled out like a drawer for ease in servicing the unit. To slide out the unit depress the buttons on the two latches. Then pull up on safety latch in upper right-hand corner and pull unit out.

OPERATING INSTRUCTIONS

The unit can be started from a START-STOP switch that is located on the right side of the generator. Be sure the crankcase has been filled with oil to the "F" full mark on the dipstick. Check oil only when the motor generator is not operating.

The START-STOP switch is a three-position rocker switch. By pressing the top half of the switch the starter on the motor generator will be activated, hold in the switch until the unit is started. The switch should then be released. To stop the unit depress the bottom half of the switch, and hold in until the unit comes to a full stop.

IMPORTANT: If the motor generator has been running with a load connected, disconnect the load and allow it to run for a few minutes (with no-load connected) before pushing STOP button.

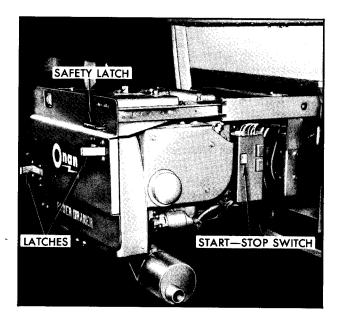
The circuit breaker on top of the unit will trip when the demand for electricity in amperes exceeds the motor generators capabilities. If the circuit breaker does trip, remove part of the electrical load and reset the breaker.

HOUR METER

Located to the right of the motor generator. The HOUR-METER indicates total amount of hours motor generator has operated. This gauge will aid in determining when the motor generator should receive periodic inspections, maintenance and service parts replacements.

HIGH TEMPERATURE OPERATION

Make sure that nothing obstructs air flow to and from the unit.

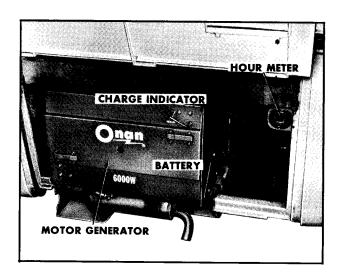


Onan Motor Generator

Keep cooling fins clean. Motor generator housing should be unaltered and undamaged.

LOW TEMPERATURE OPERATION

- 1. Use correct SAE No. Oil for temperature conditions. Change oil only when engine is warm.
- 2. Keep fuel system clean and battery in well charged condition.



Onan Motor Generator Compartment

LOW OIL LEVEL

If motor generator suddenly stops during a tight turn or sudden stop of the vehicle, the cause is most likely a low oil level. The unit is designed to shut-down when oil level is abnormally low. Before attempting to restart unit, check oil level and correct as necessary.

DUSTY AND DIRTY OPERATION

- 1. Keep unit clean. Keep cooling system clean.
- 2. Service air cleaner as required.

- 3. Change crankcase oil and filter more often than normal.
- 4. Keep governor linkage clean.

FUEL

The motor generator's fuel is supplied from the vehicle's main fuel tank.

NOTE: The motor generator may be operated while the vehicle is underway. However, the vehicle's gasoline supply will be depleted at a faster rate.

For continuing satisfaction keep your vehicle all GM. General Motors Parts are identified by one of these trademarks:

SECTION 3

IN CASE OF EMERGENCY

FOUR-WAY HAZARD WARNING FLASHER

- Use the warning flasher to warn other drivers any time your vehicle becomes a traffic hazard, day or night.
- Avoid stopping on the roadway, if possible.
- Turn on the hazard warning flasher by pushing in on the button located on the column just below the steering wheel. Flasher can be actuated with engine ignition either off or on.
- Turn signals do not work with hazard flashers operating.
- If the brake pedal is depressed, the lights will not flash but remain continuously lit.
- To cancel the flasher, pull the button out.

EMERGENCY STARTING

- Engine cannot be started by towing or pushing the vehicle.
- If only main (automotive) battery discharged, set battery switch instrument panel on "BAT BOOST," this from the supplies current auxiliary battery. "BAT Return switch to NORMAL' position if jump starting is still necessary.
- A vehicle with discharged batteries may be started by using energy from a battery in another vehicle—called "Jump Starting."

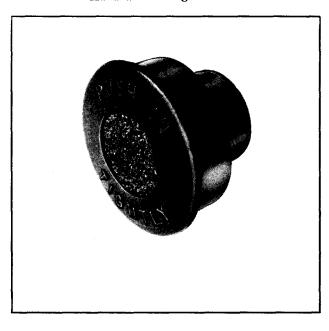
JUMP STARTING

Jump starting may be dangerous and should be attempted ONLY if the following three conditions are met. If they are not, we strongly recommend that you leave the starting to a competent mechanic.

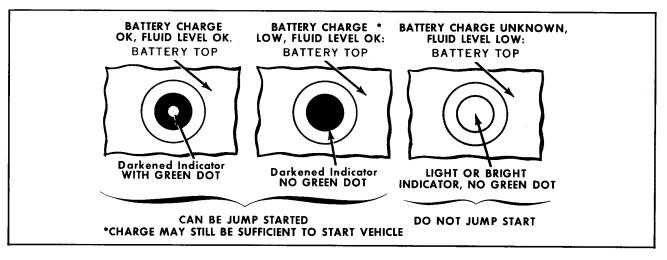
- The battery in the other vehicle must be 12-VOLT and NEGATIVELY GROUNDED, like the batteries in this vehicle. (Check the other vehicle's owner's manual to see if it is.)
- The batteries in this vehicle must be equipped with FLAME ARRESTOR TYPE FILLER/VENT CAPS on ALL



Hazard Warning Flasher



Flame Arrestor Cap



Charge Indicator Conditions (Maintenance-Free Battery)

filler openings (as was the original-equipment Delco batteries), or it must be a sealed-type battery which does not have filler openings or caps. (Each Delco battery flame arrestor cap has a grey disc rather than a small hole-see illustration.)

• If the battery is a Delco sealed-type battery without filler openings or caps, the charge indicator MUST BE DARK, with or without green dot showing, see illustration. Do NOT attempt jump starting if the charge indicator has a light or bright center.

CAUTION

Departures from these conditions or the procedure below could result in: (1) serious personal injury (particularly to eves) or property damage from such caused as battery explosion, battery acid, or electrical burns; and/or (2) damage electronic components in either vehicle.

Never expose battery to open flame or electrical spark—batteries generate a gas which is flammable and explosive. Do not allow battery fluid to contact eyes, skin, fabrics, or painted surfaces—fluid is a corrosive acid. FLUSH ANY CONTACTED

AREA WITH WATER IMMEDIATELY ANDTHOROUGHLY. Be careful metal tools. or jumper cables do not contact positive the battery terminal (or metal in contact with it) and any other metal in the other vehicle, because short circuit could occur. Batteries and battery acid should always be kept out of the reach of children.

JUMP START PROCEDURE

- 1. WEAR EYE PROTECTION and remove rings, metal watch bands, and other metal jewelry.
- 2. Set parking brake firmly, and place automatic transmission in "PARK" (neutral for manual transmission) in both vehicles; (don't let vehicles touch). Also turn off lights, heater, and all unnecessary electrical loads.
- 3. Attach one end of a jumper cable to the positive terminal (identified by a red "+", or "P" on the battery case, color, post, or clamp), of the battery in the other vehicle and the other end of the to positive terminal junction same cable block stud, marked "VEHICLE BATTERY POSITIVE." This is located behind right access door above the batteries.

- 4. Attach one end of the remaining iumper cable FIRST to the negative terminal (black color, "-". or "N") of the OTHER vehicle's battery, (regardless of which vehicle has the discharged battery and THEN to the right radiator mounting THIS bracket vehicle-thus advantage of your battery's flame arrestor feature, should a spark occur.
- 5. Start the engine in the vehicle that is providing the jump start (if it was not running). Let run a few minutes, then start the engine in the vehicle that has the discharged battery.
- 6. Reverse the above sequence EXACTLY when removing the jumper cables, taking care to remove the cable from the right radiator mounting bracket in THIS vehicle as the FIRST step.

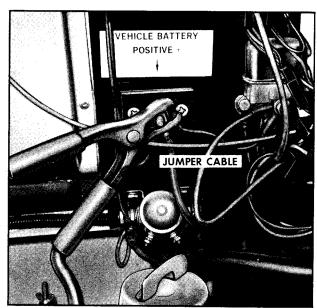
ENGINE COOLANT CAUTION

- To avoid the danger of being burned, do not remove radiator cap while engine and radiator are still hot, because the cooling system will blow out scalding fluid and steam under pressure.
- Do not remove radiator cap to check engine coolant level; check coolant visually at the see-through coolant tank.
- Proper coolant level at normal engine operating temperature is between the "FULL" and "ADD" marks on the tank.
- Coolant should be added only to the coolant recovery tank (see SERVICE & MAINTENANCE section for details).

JACK USAGE INSTRUCTIONS

CAUTION

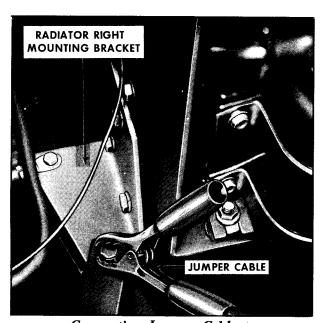
- 1. Follow jacking instructions in order to reduce the possibility of serious personal injury.
- 2. The jack is designed for use only when changing wheels.
- 3. Never get beneath the vehicle when using jack.
- 4. Do not start or run engine while vehicle is on jack.



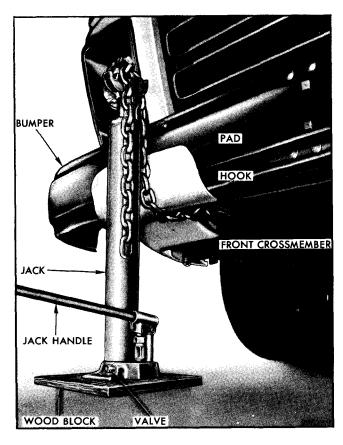
Connecting Jumper Cable to "VEHICLE BATTERY POSITIVE" Stud

INSTRUCTIONS

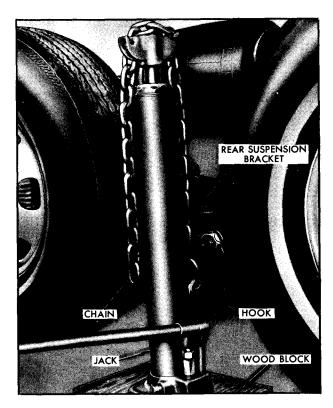
- Park on level surface and set parking brake firmly.
- Set transmission in "PARK".
- Activate Hazard Warning Flasher.



Connecting Jumper Cable to Right Radiator Mounting Bracket

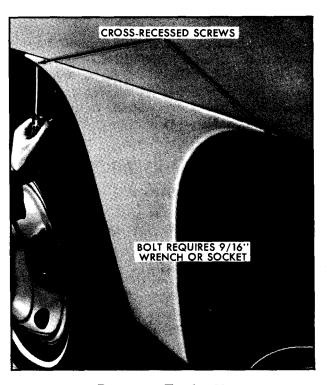


Jacking at Front of Vehicle



Jacking at Rear of Vehicle

- Block both front and rear of the wheel diagonally opposite the jack position.
- Loosen but do not remove wheel nuts.
- JACKING FRONT-Place ΑT hydraulic jack block near energy on wood abosrbing front bumper bracket. Place hook at flange of front cross-member. Pass chain under bumper and adjust chain length to snug fit on fork on top of jack.
- JACKING ΑT REAR-Remove skirt if vehicle is so equipped, using a No. cross-recessed screwdriver 9/16" wrench or socket (as shown). Place hydraulic jack on wood block close suspension bracket (see illustration). The hook is placed drainage slot under bracket. Adjust chain length so link will fit in fork at top of jack.
- Close valve at base of jack and insert jack handle.
- Always operate jack with slow, smooth motion.



Removing Fender Skirt

- Raise vehicle so tire just clears surface, replace wheel and slightly tighten wheel nuts.
- Open valve at base of jack to lower, then fully tighten wheel nuts. Proper torque is 250 foot pounds.

CAUTION

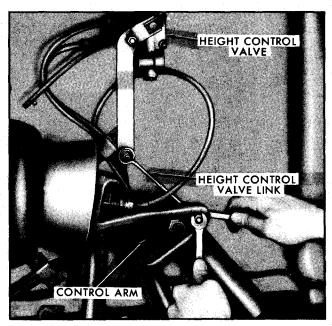
Use lug wrench provided to tighten wheel nuts securely. (Follow the nut tightening sequence shown in the SERVICE AND MAINTENANCE section). At the earliest opportunity have wheel nut torque checked. This is necessary to help prevent loosening or stripping of the wheel nuts.

Always securely restow the spare tire assembly (if so equipped) on the spare tire carrier, and return all jacking equipment to its proper stowage location. These precautions will help prevent such items from becoming dangerous projectiles in the event of an accident.

TOWING

Proper lifting and towing equipment is necessary to prevent damage to the vehicle during any towing operation. State (Provincial in Canada) and local laws applicable to vehicles to tow must be followed. Detailed towing instructions are available at your MotorHome dealer.

Your vehicle may be towed on all six wheels, at speeds less than 35 MPH, for distances up to 50 miles, provided the final drive, axle, transmission, and steering system are otherwise normally operable. Use only towing equipment specifically designed for this purpose following the instructions of the towing equipment manufacturer. A separate safety chain system must be used. such towing the steering must be unlocked, transmission in neutral and the parking brake released. Attachments must be to engine front crossmember. Do not attach to bumpers or associated brackets. Remember that power brakes and power steering assists will not be available when engine is inoperative.



Location for Disconnecting Height Control Valve Link

TOWING AT FRONT

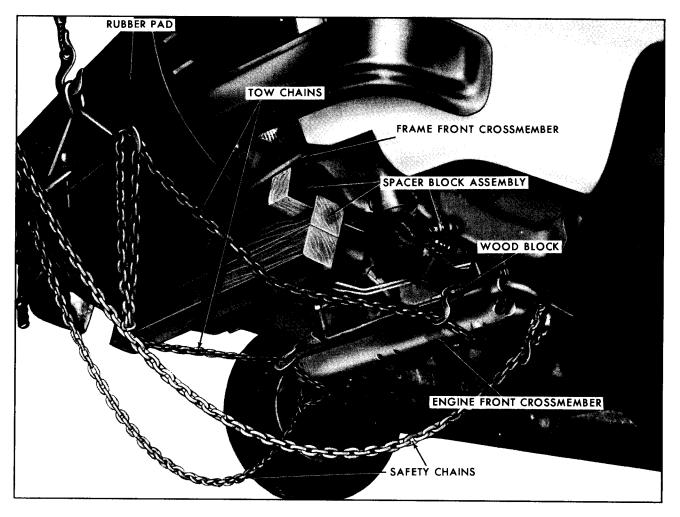
On vehicles equipped with the Power Level System, turn the valve dials, below the instrument panel, to "HOLD" position, thereby making the automatic height valves inoperative on the rear suspension. On vehicles not equipped with the optional Power Level System it will be necessary to disconnect the height control valve link at the rear suspension control arm (adjacent to the shock absorber stud) on each side of the vehicle. Raising front of vehicle so front wheels are four inches off the ground will provide about five-inch ground clearance at the rear when towing.

TOWING AT REAR

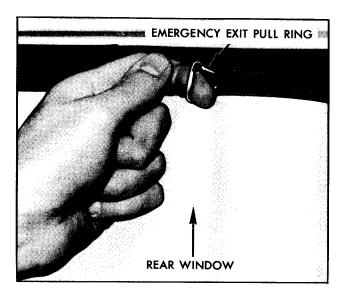
It is not recommended that vehicle be towed with the rear raised as this could result in suspension or crossmember damage.

FREEING VEHICLE FROM SAND, ETC.

If it becomes necessary to rock the MotorHome to free it from sand, mud, or snow, move the transmission selector lever from "D" to "R" in a repeat pattern



Towing Vehicle



Emergency Exit Pull Ring

while simultaneously applying moderate pressure to the accelerator. Do not race engine. For best possible traction, avoid spinning wheels when trying to free the vehicle. The use of GM Liquid Tire Chain is recommended for temporary assistance when traction is lost on ice or snow.

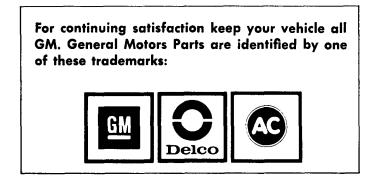
CAUTION

Do not spin wheels in excess of 35 MPH indicated as on the speedometer. Personal injury and severe damage may result from excessive wheel spinning including tire disintegration differential or failure.

EMERGENCY EXIT

The rear window of the vehicle in an emergency can be used as an exit. To use the emergency exit, pull the ring located at the top center of the rear window until window seal is removed, and then push the

glass out of the frame. Do not pull ring except in case of emergency. The window is not hinged, and it is designed to be pushed out. Take care that window will not fall on anyone outside the vehicle. Be careful of possible broken glass on ground when exiting from the vehicle.



SECTION 4

APPEARANCE CARE CARE AND CLEANING OF INTERIOR (DRIVER'S COMPARTMENT)

GENERAL INFORMATION

Dust and loose dirt that accumulates on interior fabric trim should be removed frequently with a vacuum cleaner, whisk broom or soft brush. Vinyl or leather trim should be wiped regularly with a clean damp cloth. Normal trim soilage, spots or stains can be cleaned with GM cleaners or equivalent.

Before attempting to remove spots or stains from upholstery, determine as accurately as possible the nature and age of the spot or stain. Some spots or stains can be removed satisfactorily with water or mild soap solution (refer to "Removal of Specific Stains" later in this section). For best results, spots or stains should be removed as soon as possible.

Some types of stains or soilage such as lipsticks, some inks, certain types of grease, mustard, etc., are extremely difficult and,

in some cases, impossible to completely remove. When cleaning this type of stain or soilage, care must be taken not to enlarge the soiled area. It is sometimes more desirable to have a small stain than an enlarged stain as a result of attempted cleaning.

The listed cleaners are EXCELLENT CLEANERS when used properly according to directions on containers and are available through most G.M. Dealerships.

LAP BELT CARE

- Clean only with mild soap solution and lukewarm water.
- Do not bleach or dye belts since this may severly weaken belts.

G.M. CLEANERS

PART NO.	QUANTITY	DESCRIPTION
1050244	16 oz. can	G.M. Fabric Cleaner (Solvent Type)
1050417	Gallon can	G.M. Fabric Cleaner (Solvent Type)
1050803	16 oz. Container	G.M. Multi-Purpose Powdered Cleaner (Foam Type)
1050429	6 lb. can	G.M. Multi-Purpose Powdered Cleaner (Foam Type)

INTERIOR GLASS

The interior glass surface should be cleaned on a periodic basis for continued good visibility. A commercial household glass cleaning agent containing ammonia will remove normal tobacco smoke and dust films sometimes caused by ingredients used in vinyls, plastics, or other interior trim materials.

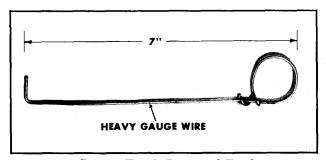
HEHR WINDOWS

If your vehicle is equipped with Hehr windows, identified by center mounted latches, removal and installation of screens to aid in cleaning interior glass may be accomplished in the following manner:

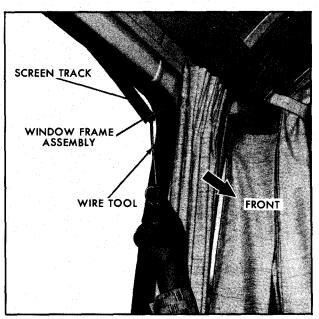
WINDOW SCREEN REMOVAL

IMPORTANT: To help avoid damaging screen track, DO NOT remove screen before removing screen tract.

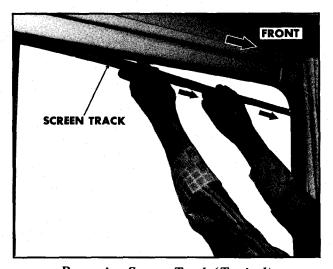
1. Remove upper screen track using a reasonably stiff wire shapped to form the screen track removal tool (as shown). Insert tool at outer end of screen track and separate track from window frame assembly. Grasp track and pull completely free of window assembly.



Screen Track Removal Tool



Separating Track From Window Frame Assembly (Typical)



Removing Screen Track (Typical)

- 2. Unlock window, slide glass and screen forward almost to moulding retainers.
- 3. Lift screen up into window frame assembly. Pull bottom of screen away from window and remove screen.

WINDOW SCREEN INSTALLATION

- 1. To install screen, lift screen up into window frame assembly. Slide screen fully rearward.
- 2. Note that screen track when installed contacts the inner edge of sliding window track. The screen track has three grooves, and the widest groove should face the outside of the vehicle. Position screen track in window frame assembly and slide it rearward until contact is made with adjacent upper screen track. Seat track into position by pressing track firmly up into window frame assembly.
- 3. Slide screen back and forth several times to assure proper seating of track. If screen will not slide, track is binding. Using a small wood block and mallet, carefully tap the track firmly into position.

CAUTION

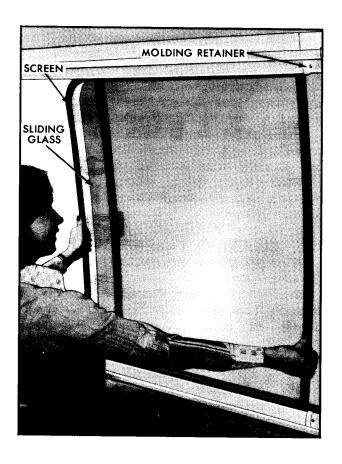
DO NOT use a screwdriver to install screen track. The screwdriver may fracture the window glass.

CLEANING FABRICS

IMPORTANT: Be sure vehicle is well ventilated while using any cleaning agents. Follow manufacturer's recommendations in using such products.

CAUTION

Many cleaners mav be toxic or flammable, and their improper use may cause personal injury or may cause damage to the interior. Therefore, when cleaning the interior, do not use volatile cleaning solvents such as: acetone, lacquer thinners, enamel reducers, nail polish



Removing Window Screen (Typical)

removers; or such cleaning materials as laundry soaps, bleaches or reducing agents (except as noted in the adjacent fabric cleaning instructions on stain removal). Never use carbon tetrachloride, gasoline or naphtha for any cleaning purpose,

CLEANING FABRICS WITH CLEANING FLUIDS

G.M. Fabric Cleaner (Solvent Type) is excellent for spot cleaning stains containing grease, oil or fats from fabric type trim. Excess stain should be gently scraped off trim material with a clean DULL knife or scraper. USE VERY LITTLE CLEANER, light pressure, and clean cloths (preferably cheese cloth). Cleaning action should be from outside of stain **FEATHERING** towards center of stain and constantly changing to a clean section of cloth. When stain is cleaned from fabric, immediately

dry area with an air hose, heat dryer or heat lamp to help prevent a cleaning ring (use caution with heat dryer or heat lamp to prevent damage to fabric material). If a ring forms, immediately repeat the cleaning operation over a slightly larger area with special emphasis on FEATHERING towards center of area. If ring still persists, mark off adjacent trim sections and clean entire affected trim panel section with G.M. Multi-purpose Powdered Cleaner as described in the following:

CLEANING FABRICS WITH DETERGENT FOAM CLEANER

G.M. Multi-Purpose Powdered Cleaner is excellent for this type cleaning and for cleaning a panel section where a minor cleaning ring may be left from spot cleaning.

Vacuum area thoroughly to remove excess loose dirt. ALWAYS clean a full trim assembly complete or trim section-mask adjacent trim along stitch or Mix Multi-Purpose Powdered welt lines. Cleaner in strict accordance with directions on label of container-mix proportionally for smaller quantities. USE SUDS ONLY ON A CLEAN SPONGE or SOFT BRISTLE BRUSH- DO NOT WET **FABRIC** EXCESSIVELY OR RUB HARSHLY WITH IMMEDIATELY BRUSH. **AFTER** WIPE OFF CLEANING ANY CLEANER RESIDUE WITH SLIGHTLY **DAMP** ABSORBENT TOWEL OR CLOTH.

IMPORTANT—IMMEDIATELY AFTER WIPING, FORCE-DRY FABRIC WITH AIR HOSE, HEAT DRYER OR HEAT LAMP. (Use caution with heat dryer or heat lamp to prevent damage to fabric.)

When trim materials with a sheen or luster finish are dry, wipe fabric lightly with a soft, dry clean cloth to restore sheen or luster.

REMOVAL OF SPECIFIC STAINS

CANDY-Chocolate, use cloth soaked in lukewarm water; other than chocolate, use

very hot water. Dry if necessary, clean lightly with fabric cleaning fluid.

CHEWING GUM—Harden gum with ice cube and scrape off with dull knife. Moisten with fabric cleaning fluid and scrape again.

FRUIT STAINS, COFFEE, LIQUOR, WINE, SOFT DRINKS, ICE CREAM AND MILK—Wipe with cloth soaked in cold water. If necessary, clean lightly with fabric cleaning fluid. Soap and water is not recommended as it might set the stain.

CATSUP—Wipe with cloth soaked in cool water. If further cleaning is necessary, use a detergent foam cleaner.

GREASE, OIL, BUTTER, MARGARINE AND CRAYON—Scrape off excess with dull knife. Use fabric cleaning fluid.

PASTE OR WAX TYPE SHOE POLISH—Light application of fabric cleaning fluid.

TAR-Remove excess with dull knife, moisten with fabric cleaning fluid, scrape again, rub lightly with additional cleaner.

BALL POINT INK-Try rubbing alcohol. If stain remains after repeated operations, no other measure should be tried.

LIPSTICK—Difficult to remove. Cleaning fluid works on some brands. If stain remains after repeated applications, do not try other measures.

MUSTARD-Damp sponge with warm water, then rub detergent on dampened stain and work into fabric. Rinse with clean damp cloth. Repeat several times. Some discoloration may remain.

BLOOD—Wipe with clean cloth moistened with cold water. Use no soap.

URINE—Sponge stain with lukewarm soap suds from mild neutral soap on clean cloth, rinse with cloth soaked in cold water; saturate cloth with one part household ammonia and five parts water, apply for one minute, rinse with clean, wet cloth.

VOMITUS—Sponge with clean cloth dipped in clean, cold water. Wash lightly with lukewarm water and mild neutral soap. If odor persists, treat area with a water-baking soda solution (one teaspoon baking soda to one cup of warm water). Rub again with cloth and cold water. Finally, if necessary, clean lightly with fabric cleaning fluid.

EXTERIOR APPEARANCE CARE

The best way to preserve the finish is to keep it clean. Normally only frequent washings are required to maintain original beauty. Wash the vehicle with either cold or warm (never hot) water, not in the direct rays of the sun and not while the sheet metal surfaces are hot. Never wipe dirt from dry painted surfaces because this may scratch the finish. The use of strong soaps and chemical detergents should be avoided. Cleaning agents should be promptly flushed from the surface and not allowed to dry or they may streak the finish.

BRIGHT METAL PARTS

Wash all bright metal parts frequently to alleviate the destructive forces of salt, calcium chloride, salt air, exhaust gases, and industrial fallout (which may be corrosive).

Use lukewarm water and mild soap, not with a strong alkali solution, rinse thoroughly. Avoid use of bright metal polishes containing harmful abrasives.

NOTE: In severe cases, road oil and tar may be removed from bright metal parts by a chemical cleaner which is specified safe to use on all acrylic finishes.

A protective coating such as GM Chrome Gard may be applied on clean chrome surfaces which are stain and rust free. If necessary, GM Chrome Cleaner and Polish may be used to remove rust from chrome plated parts before applying a protective coating.

EXTERIOR GLASS

Never wipe glass with dry paper or cloth. Do not operate wipers when glass is dry. Dirt and insects can be removed with water or with a mild household cleaner. The use of harsh abrasives should be avoided. Periodic inspection and replacement of wiper blades will reduce the possibility of the windshield becoming scratched and will assure clear vision under adverse driving conditions.

POLISHING AND WAXING

Even though the acrylic enamel on your vehicle is durable, under certain conditions it may be advisable to wax or polish your vehicle to proivde added protection. Calcium chloride and other salts, road oil and tar, tree sap, chemicals from factory chimneys and other foreign matter may damage any known vehicle finish if allowed to remain in contact with the paint film.

Prompt washing may not remove thoroughly these deposits and, particularly geographical areas where exposure conditions are severe. Properly applied polished and waxes of known quality will provide the best protection. Most GMC MotorHome dealers offer polishes or waxes which can be of real value in maintaining a good paint finish.

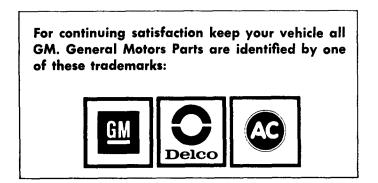
NOTE: Some chemical cleaners, used for removing road oil and tars from painted surfaces, are detrimental to acrylic enamel finishes. When purchasing a cleaner, make sure the instructions on the container specifically state that the contents can be used on any acrylic enamel finish.

TOUCH-UP PAINT

Nicks and chips in paint surfaces should be touched up before weathering action begins. The best time to detect them is right after the vehicle has been washed. Touch-Up Paint to match you vehicle's color is available at your GMC MotorHome dealer.

UNDERCOATING

Due to the fiberglass and aluminum body construction of the vehicle added protection by additional undercoating is not necessary. However, if you do wish to apply undercoating material, it should be kept off of all moving or rotating parts. It should also be kept off air conditioner fittings, body drain holes, exhaust systems, and plumbing.



SERVICE AND MAINTENANCE

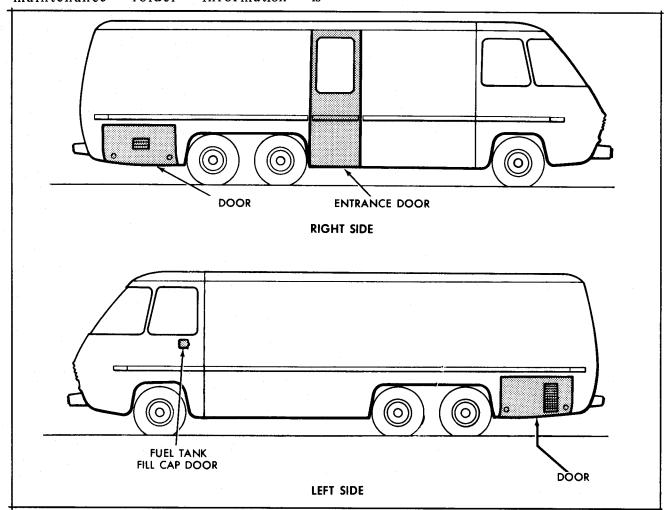
CAUTION

As with any machinery, extreme care should be taken when performing any inspection, maintenance or repairs so as to prevent accidental injury. Improper or incomplete servicing could result in vehicle operational problems which may lead to personal injury, or damage to the vehicle or its equipment. Should you have any question about performing any service, have the service performed by a competent serviceman.

MAINTENANCE SCHEDULE

For owner convenience. a separate maintenance folder has been provided with your vehicle which contains a complete brief explanation schedule and control, lubrication safety, emission and requires. The general maintenance it folder information maintenance

supplemented by this section of the Operating Manual, as well as a Warranty Information folder also furnished with your vehicle. Read all three publications for a full understanding of vehicle maintenance requirements.



Exterior Compartment Location (Typical)

ACCESSIBILITY

EXTERIOR COMPARTMENTS

Your vehicle has an entrance door on the right side and six compartment doors. Their locations are shown on the following illustrations.

Be sure the doors are secured tightly to prevent their opening after vehicle is in motion.

There are two front access doors on your vehicle. Turn the latch knob to the left to release each door. Items that can checked or filled through the right access door are the batteries, engine oil fill, radiator, radiator cap, engine coolant reservoir and the air conditioner receiver-dehydrator sight glass (optional). checked Items that can be or filled through the left access door are the windshield washer reservoir, brake master cylinder, engine oil dipstick and the air compressor.

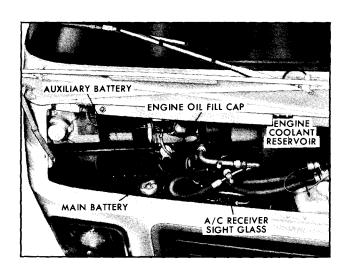
Be sure to secure the access doors after closing them by turning the latch knob to the right to prevent the doors from opening after the vehicle is in motion.

CAUTION

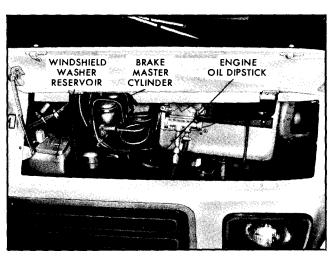
Before pouring fluid into opening anywhere on the vehicle, or allowing anyone else to do so, make certain that the correct filler opening, and type of fluid has been selected. wrong choice could result in serious personal injury or property damage.



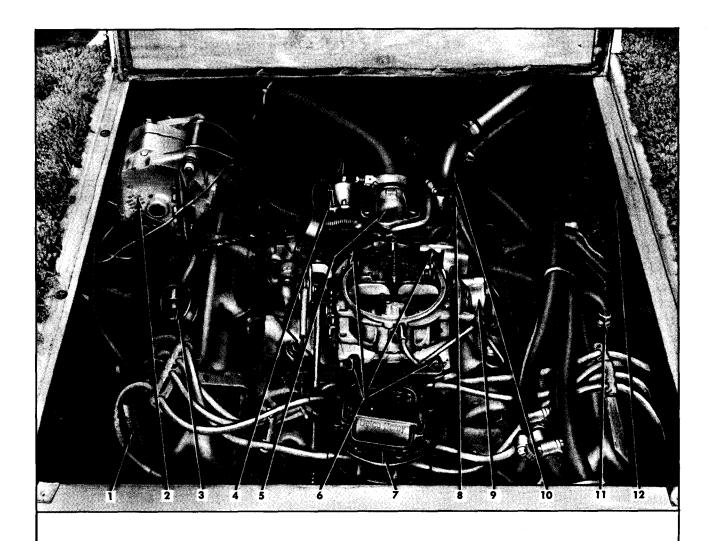
Front Access Doors



Right Front Access Compartment



Left Front Access Compartment



- 1. Automatic Transmission Fluid Dipstick and Fill Tube
- 2. Generator
- 3. PCV Filter
- 4. Engine Temperature Sending Unit
- 5. Thermostat Housing
- 6. Carburetor Attaching Bolts (4)

- 7. Distributor
- 8. Thermal Vacuum Switch
- 9. Carburetor Choke Coil Cover
- 10. Engine Oil Fill Hose and Tube Assembly
- 11. PCV Valve
- 12. Air Conditioning Compressor (Optional)

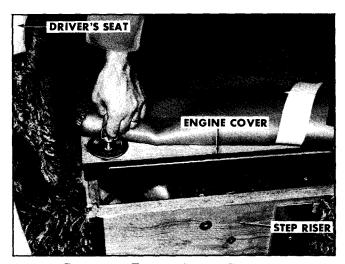
Engine Compartment

ENGINE ACCESSIBILITY

Access to the engine is provided by an engine cover located between the driver and passenger seats. The cover is designed to be secured at the two rear corners by securing bolts. The securing bolts have rings

and may be loosened or tightened by hand or screwdriver. The cover is designed to be secured at the front by a retaining lip.

To remove the engine cover loosen the securing bolts and lift up using the wire loops. To install the engine cover place the cover in its frame and slide forward as far as possible. Tighten the securing bolts.



Removing Engine Access Cover

ENGINE COMPARTMENT LIGHT

The optional engine compartment light (located behind right front access door) is turned ON when access door is opened. The light, attached to a 25-foot cord, may be removed from engine compartment for use as necessary.

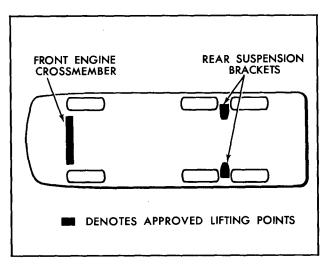
CAUTION

It is essential that when installing the engine cover it be fully seated to its seal and secured by the lip at its forward edge and the securing bolts at its rearward edge. Do NOT allow cables, carpeting, floor mats or any other material to interrupt the seat between the cover and the engine compartment. If the engine cover is not correctly installed and engine exhaust could seated, into the passenger compartment safety hazard (see creating a carbon monoxide caution at beginning of the section STARTING AND **OPERATING** VEHICLE). If the engine must run with the cover off for maintenance care should be taken to purposes, assure that the vehicle's interior is well ventilated.

HOISTING INSTRUCTIONS

A twin post hoist of sufficient capacity and with proper adapters and/or fittings must be used.

Front hoisting position is the front engine crossmember.



Vehicle Hoisting Points

Rear hoisting must be done at the rear suspension brackets. If an "I" beam type adapter is used it should be approximately 82 inches in length to gain adequate support at suspension brackets.

If the vehicle is to be placed on safety stands for maintenance or repairs, the hoisting points should be used.

CAUTION

To help avoid serious damage to your vehicle, the vehicle should be raised only on twin post hoists of 15.000 pounds or more total rated capacity, at the suspension points noted (see diagram). Before raising, check overhead clearance to see that is is sufficient for the vehicle. DO the vehicle iack for use hoisting or maintenance. is designed for use only when changing

LUBRICATION DETAILS

ENGINE

ENGINES OIL AND FILTER RECOMMENDATIONS

- Use only SE engine oil.
- Refer to Maintenance Schedule folder for oil change and filter replacement intervals.
- See your GMC MotorHome dealer for advice on the frequency of oil and filter changes under unusual driving conditions.

The recommendations in the Maintenance Schedule folder apply to the first change as well as subsequent oil changes. The oil change interval for your vehicle's engine is based on the use of SE oils and quality oil filters. Oil change intervals longer than those listed will seriously reduce engine life and may effect GMC Truck & Coach's obligation under the provisions of the New Vehicle Warranty.

A high quality SE oil was installed in your engine at the factory. It is not necessary to change this factory-installed oil prior to the recommended normal change period. However, check the oil level more frequently during the break-in period since higher oil consumption is normal until the piston rings become seated.

NOTE: Non-detergent and other low quality oils are specifically not recommended. Only the use of SE engine oils and proper oil and filter change intervals assure you of continued proper lubrication of your vehicle's engine.

RECOMMENDED SAE VISCOSITY

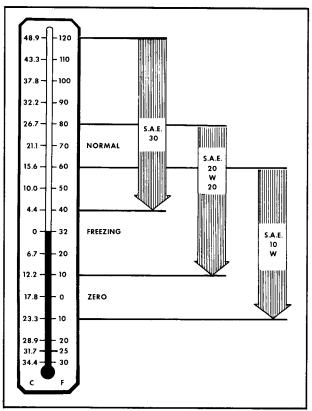
- Single grade oils are preferred, however, multigrased such as SAE 10W-30 or 10W-40 are also acceptable.
- SAE 5W-20 oils are not recommend for sustained high speed driving.
- SAE 5W-30 oils (if available) may be used if extreme low temperatures are anticipated.

SUPPLEMENTAL ENGINE OIL ADDITIVES

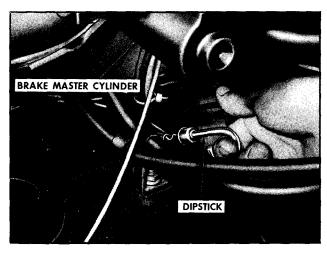
The regular use of supplemental additives is specifically not recommended and will increase operating costs. supplemental additives are available that can effectively and economically solve certain specific problems without causing other difficulties. For example, if higher detergency is required to reduce varnish and sludge deposits resulting from some unusual operational difficulty, a thoroughly tested and approved additive-"Super Engine Oil Supplement"-is available at your GMC MotorHome dealer. In the event of an operational problem, consult your dealer for advice before using supplemental additives.

CHECKING OIL LEVEL

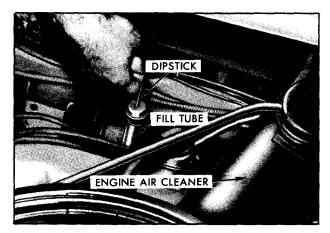
The engine oil should be maintained at the proper level. The best time to check it is before operating the engine or as the



Engine Oil Viscosity Chart



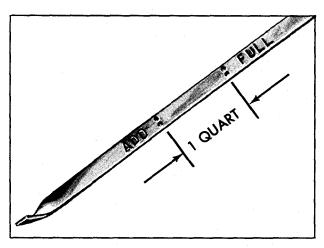
Removing Engine Oil Dipstick



Removing Transmission Dipstick



Transmission Dipstick



Engine Oil Dipstick

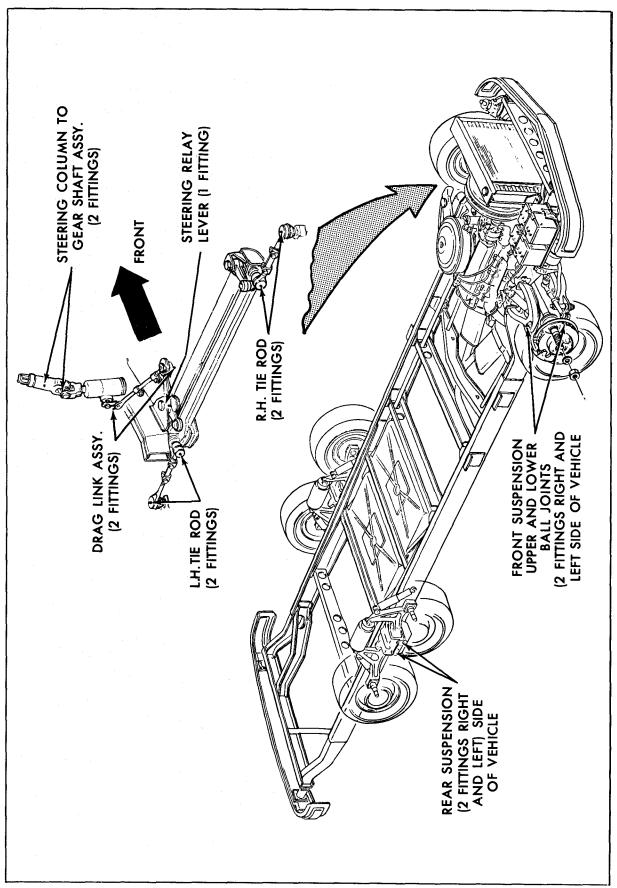
last step in a fuel stop. This will allow the normal oil accumulation in the engine to drain back into the crankcase. To check the level, remove the oil level dipstick located inside the left front access door, wipe it clean and reinsert it fully for accurate reading. The oil level dipstick is marked "FULL" and "ADD." The oil level should be maintained with in the margin, neither going above the "FULL" line nor below the "ADD" line. Reseat the dipstick firmly after taking the reading. One (1) quart will raise the oil lever from "ADD" to "FULL."

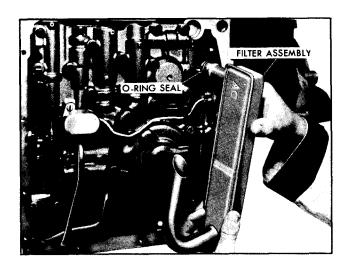
NOTE: The oil dipstick is also marked "USE SE ENGINE OIL," as a reminder to use only SE oils.

TRANSMISSION

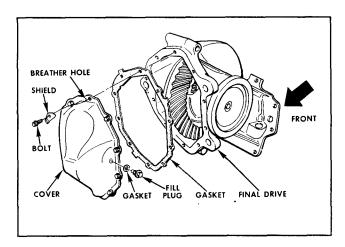
The transmission dipstick and fill tube is located under the engine access cover on the left side of the engine.

Use only automatic transmission fluids identified with the mark DEXRON® II These fluids have been specially formulated and tested for use in your automatic transmission, and are available from your GMC MotorHome dealer or local service station.

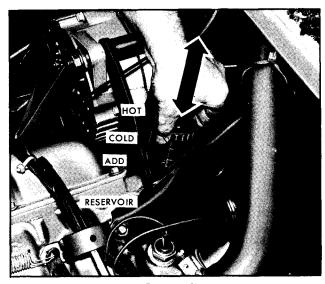




Replacing Transmission Oil Filter



Final Drive Cover Removal



Checking Power Steering
Fluid Level

Check the fluid level at each engine oil change period. To make an accurate fluid level check:

- 1. Drive vehicle several miles, making frequent starts and stops, to bring transmission up to normal operating temperature (approx. 190-200° F.) (88-93° C.).
 - 2. Park vehicle on a level surface.
 - 3. Apply parking brake.
- 4. Place selector lever in "PARK" and leave engine running.
- 5. Open all windows, then remove engine cover.
 - 6. Remove dipstick and wipe clean.
 - 7. Reinsert dipstick until cap seats.
 - 8. Remove dipstick and note reading.

If fluid level is at or below the "ADD" mark, add sufficient fluid to raise the level to the "FULL" mark. One pint raises the level from "ADD" to "FULL." Do not overfill. Refer to the Maintenance Schedule folder for servicing interval.

TRANSMISSION OIL AND FILTER REPLACEMENT

NOTE: Have a drain pan ready as lubricant will begin to drain as bolts are loosened.

- 1. Remove (13) bottom pan attaching screws.
- 2. Remove bottom pan and discard gasket.
- 3. Remove and discard oil filter assembly.
- 4. Install new O-ring seal on new filter and intake pipe and filter assembly and install.
- 5. Using a new pan gasket, install pan. Torque attaching screws to 12 foot-pounds.
- 6. Add four (4) quarts of DEXRON® II automatic transmission fluid and check fluid as noted above.

FINAL DRIVE

FINAL DRIVE LUBRICANT REPLACEMENT

- 1. Remove (10) cover attaching bolts. Have a drain pan ready as lubricant will begin to drain as bolts are loosened.
- 2. Remove cover and allow lubricant to drain. Discard old gasket.
- 3. Using a new cover gasket, install cover. Torque attaching bolts to 24- foot pounds. Shield to be bent over breather hole.
- 4. Add four pints of recommended lubricant through fill plug hole or fill until lubricant level is at the plug hole. Install fill plug.

NOTE: Use SAE 80W or SAE80W-90 GL-5 Gear Lubricant. (For those vehicles operated in Canada, use SAE 80W GL-5 Gear Lubricant.)

STEERING SYSTEM

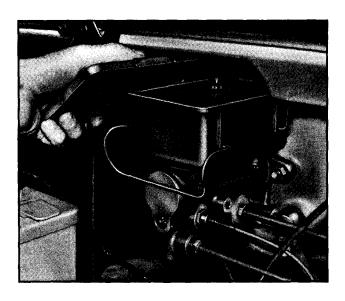
POWER STEERING SYSTEM

Check the fluid level in the power steering pump reservoir at each oil change period. This requires the removal of the engine access cover. The reservoir is located the Delcotron, Add GM Power Steering Fluid (if GM Power Steering Fluid is not available. DEXRON®II Automatic Fluid Transmission may used) be necessary to bring level into proper range on the filler cap indicator depending on fluid temperature.

If at operating temperature [approx. 150°F. (66°C.)—hot to the touch] fluid should be between "HOT" and "COLD" marks. If at room temperature [approx. 70°F. (21°C.)] fluid should be between "ADD" and "COLD" marks. The fluid does not require periodic changing.

STEERING LINKAGE

The steering linkage (tie rods) and suspension should be lubricated, using a Lithium Soap Multi-purpose grease that



Checking Brake Master Cylinder

meets GM Specification 6031-M, at every oil change. Seals should be checked for damage (see Maintenance Schedule folder).

BRAKE SYSTEM

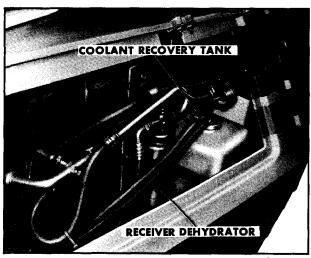
BRAKE MASTER CYLINDER

The master cylinder is located behind the left-side access door on the front of the vehicle. The fluid level in the master cylinder should be checked at each oil change. Wipe off the brake cylinder filler cap and unsnap the retainer. A low fluid level in the front brake master cylinder reservoir could be an indicator that the disc brake pads need replacing. The fluid level must be maintained at 1/4-inch below the top of each reservoir with Delco Supreme No. 11 or DOT-3 Brake Fluid or equivalent. When replacing the cap be sure to fasten the retainer securely, taking care not to let dirt enter the reservoirs.

BLEEDING BRAKES

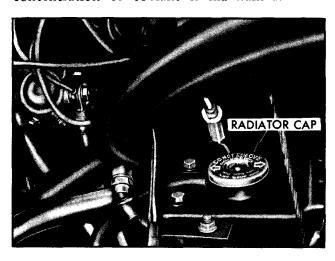
The need for bleeding brakes is generally indicated by springy, spongy pedal action. Pressure bleeding equipment must be used and a definite bleeding sequence and procedure must be followed. Consult your GMC MotorHome dealer.

SERVICING DETAILS



Coolant Recovery Tank (Typical) ENGINE COOLING SYSTEM

The recovery type cooling system is standard on all vehicles covered by this manual. The coolant expands with rising temperature and the overflow is collected in the recovery tank. When the system temperature drops, the coolant is drawn back into the radiator. The cooling system has been filled at the factory with a high-quality, inhibited, year-around coolant that meets the standards of General Motors Specification 1899-M. This coolant solution protection freezing to-20°F. provides (-29°C.) (-37°C. in Canada), and it has formulated to be used without replacement specified in Maintenance period folder, providing the Schedule proper concentration of coolant is maintained.



Location of Radiator Cap

COOLING SYSTEM CARE

Checking Coolant Level

Open right front access cover. Do not remove radiator cap to check coolant level, but check visually in the "see thru" coolant recovery tank as frequently as necessary. Level should be at the "COLD" mark on the recovery tank when the system is cold; and at the "HOT" mark at normal operating termperature. Add a 50/50 mixture of high-quality ethylene glycol anti-freeze and water to the recovery tank for coolant additions. If frequent additions are required, see your dealer for a cooling system check.

NOTE: If the recommended quality antifreeze is used, supplemental inhibitors or additives claiming to provide increased cooling capability are not necessary. They may be detrimental to the efficient operation of the system, and represent an unnecessary operating expense.

Annual Service

The cooling system should be checked each year as follows:

- 1. Wash radiator cap and filler neck with clean water.
- 2. Check coolant for proper level and freeze protection.
- 3. Test system and radiator cap for proper pressure holding capacity (9 psi). If required, use cap designed by AC for coolant recovery systems and specified for your vehicle.
- 4. Tighten hose clamps and inspect all hoses. Replace hoses every 24 months, earlier if swollen, checked or otherwise deteriorated.
- 5. Clean frontal area of radiator core and air conditioning condenser.

Draining and Refilling

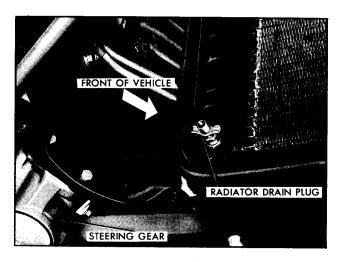
The cooling system should be drained, flushed and refilled using the following recommended procedure at intervals specified in the Maintenance Schedule folder.

- 1. Remove radiator cap when engine is cool:
- Rotate cap slowly counterclockwise to detent (Do not press down while rotating).
- Wait until residual pressure (indicated by a hissing sound) is relieved, then press down on cap and continue to rotate counterclockwise.

CAUTION

To avoid the danger of being burned, do not remove radiator cap while engine and radiator are still hot because scalding fluid and steam will be blown out under pressure.

- 2. Run engine, with radiator cap removed, until upper radiator hose is hot (indicates thermostat is open).
- 3. Stop engine and open radiator drain valve to drain coolant. (Operation may be speeded by removing drain plugs in the block.)
- 4. Close valve (install block drain plugs, if removed) and add sufficient water to fill system.
- 5. Repeat steps 1, 2, 3, and 4 a sufficient number of times until the drained liquid is nearly colorless.
- 6. Allow system to drain completely and then close radiator drain valve tightly. (Install block drain plugs, if removed.)
- 7. Remove recovery cap leaving hoses in place. Remove coolant recovery tank.



Radiator Drain Plug

empty fluid, scrub and clean bottom and sides of tank with detergent and water, flush well with clean water, drain and reinstall.

- 8. Add sufficient ethylene glycol coolant, meeting GM specification 1899-M. provide the required freezing and corrosion protection—at least a 50 percent solution (-34°F.) (-37°C.). Fill radiator to the base of the radiator filler neck and bring level of coolant in the recovery tank the "FULL HOT" mark. Reinstall recovery tank cap.
- 9. Run engine, with radiator cap removed, until radiator upper hose becomes hot.
- 10. With engine idling, add coolant to radiator until level reaches bottom of filler neck; install cap making certain arrows line up with overflow tube.
- 11. Add sufficient coolant to coolant reservoir to raise level to the "HOT" mark. Install reservoir cap.

"ENGINE WATER" LIGHT IS ON

If the cooling system "ENGINE WATER" light is illuminated this is an indication that the coolant level in the radiator is abnormally low and requires immediate service. Be sure to heed the CAUTION on this page.

- 1. Allow engine to cool. While engine is cooling, visually inspect radiator, engine, all cooling system hoses for source of low coolant level, and correct problem if possible.
- 2. If leakage problem cannot be readily corrected, do not run engine until vehicle is repaired and refilled by a qualified mechanic.
- 3. Refill cooling system by performing Steps 8-11 of "Draining and Refilling."

Owner Responsibility

It is the owner's responsibility to:

- Maintain cooling system freeze protection at -20°F. (-29°C.) or below to ensure protection against corrosion and loss of coolant from boiling, even though freezing temperatures are not expected.
- Add ethylene glycol base coolant that meets GM Specification 1899-M when coolant additions are required because of coolant loss or to provide additional protection against freezing at temperatures lower than −20°F (−29° C.) (−37° C. in Canada).

NOTE: Alcohol or methanol base coolants or plain water are not recommended for your vehicle at any time.

THERMOSTAT

The cooling system is protected and controlled by a thermostat installed in the engine coolant outlet to maintain satisfactory operating temperature of the This thermostat is designed for engine. through both winter continuous use and be summer and need not changed seasonally. When replacement is necessary, Delco parts are recommended.

ENGINE FUEL SYSTEM

FUEL REQUIREMENTS

Your vehicle's engine is designed to operate on unleaded gasoline which minimizes spark plug fouling and emission control system deterioration. Regular grade leaded gasoline may be used under normal operating conditions and also to eliminate knock. Knock is metallic rapping noise generated during the combustion process. If knocking persists, consult your authorized dealer. Continuous or excessive knocking may result in engine damage and constitutes misuse of the engine for which GMC Truck and Coach Division is not responsible under the terms of the new vehicle warranty. The engine does not require Premium grade fuel. Therefore, its use would be an unnecessary additional expense.

If an unleaded gasoline is used it must meet the <u>minimum</u> octane specifications established by the Federal government. In compliance with Federal regulations, pumps dispensing such gasoline are labeled with the word UNLEADED.

FUEL SYSTEM

The vehicle has two gasoline tanks of approximately 25 gallons each and fuel switching device (see "FUEL SELECTOR" switch) which allows the driver to switch from the main tank (when empty) to the auxiliary tank.

The gasoline fuel filler compartment is located on the left side of the vehicle, directly under the driver's window.

CAUTION

It is important that all pilot lights be turned off and open flames kept away when filling the fuel system to help reduce fire hazard.

GAS CAP—The cap is equipped with a double set of locking tangs.

To Remove:

- Rotate cap one-half turn counterclockwise to clear the first set of tanks from the slots inside the filler neck. This will allow any residual pressure to escape.
- Pull the cap outward and rotate one-quarter turn counterclockwise to clear second set of tangs. Then remove the cap.
- To install, reverse this procedure

NOTE: If the gas cap requires a replacement, only a cap with the same features should be used. Failure to use the correct cap can result in serious malfunction of the system. Correct replacement caps may be obtained from your GMC MotorHome dealer.

IMPORTANT: If automatic gasoline pump nozzle shuts off before both fuel tanks are full, it is recommended that a delay of approximately 1 minute be held prior to continuation of filling tanks. Automatic nozzle should then be adjusted for a slower fuel feed, to fill remainder of tanks.

CARBURETOR

To obtain maximum engine performance and fuel economy, carburetor idle speeds should be checked as recommended in the Maintenance Schedule folder. If the engine stalls, idles too fast or slow, or idles roughly, the following adjustments should be performed. However, if the above symptoms persist it is recommended the vehicle be taken to a GMC MotorHome dealer.

NOTE: Refer to Tune-up label on engine for correct specifications.

Fuel Filter

To replace carburetor filter, disconnect fuel line, remove filter nut, gasket, filter, and spring. Install spring and element (open end of filter facing toward filter nut). Install gasket; tighten nut to 18 foot-pounds torque.

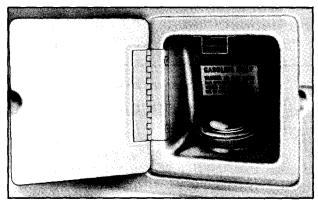
IMPORTANT: Tightening fuel inlet nut beyond specified torque can damage nylon gasket.

ENGINE AIR CLEANER

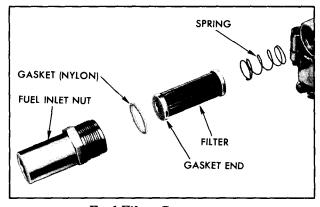
The air cleaner is a disposable type element. Replace the element as specified in the Maintenance Schedule folder. Do not wash, oil, or clean with air hose. The air cleaner will require more frequent service under dusty conditions. Your GMC MotorHome dealer can advise you on the proper interval. When replacement is necessary, an AC ACron air filter element is recommended.

CAUTION

DO NOT remove the engine cleaner unless temporary removal is during necessary repair or of the maintenance vehicle. When the air cleaner is removed, backfiring fire in cause the compartment.



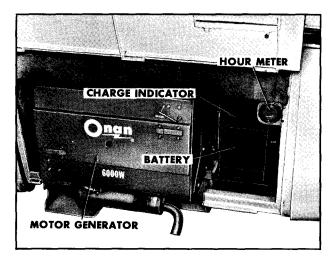
Gasoline Fuel Filler Compartment



Fuel Filter Components



Removing Engine Air Cleaner Element



Motor Generator Compartment

CHASSIS ELECTRICAL SYSTEM BATTERIES

There are two Delco Batteries used for the chassis and interior of the vehicle. These are located behind the right front access door. The optional Motor Generator cranking battery is located in the storage or motor generator compartment along with the Motor Generator and the hour meter.

It is important that these batteries receive the following care:

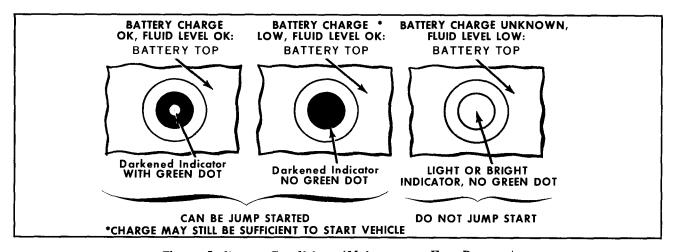
1. If the battery has flame arrestor type filler/vent caps, check the fluid level in each cell at each engine oil change interval and more often in hot weather. (To do this it may be helpful to use a small hand mirror.) Add only colorless, odorless

drinking water or distilled water to bring the level to the split-ring in the filler opening. DO NOT OVERFILL.

- 2. The batteries may be maintenance-free type batteries, identified by the absence of vent plugs. Water never needs to be added to the maintenance- free batteries. A charge indicator in the cover of the battery indicates the state of charge. Check the charge indicator at each engine oil change interval. (A small hand mirror may be helpful in reading the indicator.)
- If the charge indicator is dark and has a green dot in the center, the battery is sufficiently charged.
- If the charge indicator is dark and a green dot is not visible, have your GMC MotorHome dealer charge the battery.
- If the charge indicator has a light or bright center, the battery must be replaced. If the battery fails prematurely and exhibits a light indicator condition, have your dealer check the charging system of the vehicle.

CAUTION

Τo avoid explosion hazard. NEVER attempt to charge or jump start maintenance free battery exhibits light which indicator condition. Departures from this procedure could result in serious personal injury or property damage. additional details refer "JUMP STARTING" earlier in this manual.



Charge Indicator Conditions (Maintenance-Free Battery)

- 3. Keep your batteries, battery cable terminals, and battery hold-down brackets clean. They should be cleaned every 12,000 miles or once a year. Use a brush and a solution of ammonia and water or baking soda and water. Flush off with clear water. After cleaning apply petroleum jelly to petrolatum to battery cable terminals to help retard corrosion.
- 4. If battery performance becomes questionable see your dealer.

For full voltage requirements a Delco Battery is recommended at replacement time.

CAUTION

Never expose battery to open flame or electric spark-chemical action in the battery generates hydrogen gas which is flammable and explosive. battery Do not allow fluid fabrics. contact eves. skin. painted surfaces-fluid is a corrosive acid solution which could sulfuric cause serious personal injury or property damage. FLUSH CONTACTED AREA WITH WATER IMMEDIATELY ANDWEAR THOROUGHLY. PROTECTION WHEN WORKING ON OR NEAR BATTERY, Remove rings, metal watchbands and other metal jewelry before working on or around a battery. Be careful in using metal tools and equipment. If such metals should contact the positive battery terminal (or metal in contact with it) and any other metal on the vehicle, a short circuit may occur which could cause personal injury. Batteries and battery acid should always be kept out of the reach of children.

For "Battery Jump Starting Procedure" see IN CASE OF EMERGENCY section.

DISTRIBUTOR

Distributor maintenance, which is the responsibility, includes regular examination of the distributor cap for cracks, checking condition of ignition wires, ignition timing at and proper specified intervals. Refer to the Maintenance Schedule folder for additional information.

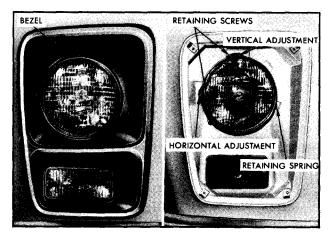
NOTE: Refer to Tune-up label on engine for correct specifications.

SPARK PLUGS

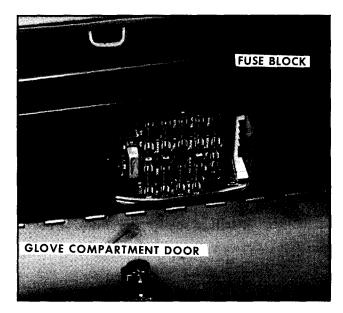
The frequency of spark plug service intervals is explained in the Maintenance Schedule folder. Servicing is the owner's responsibility. Before removing plugs, clean plug wells thoroughly, clean the threads and seats in the cylinder heads to assure proper seating and heat transfer.

HEADLIGHTS

Make a headlight beam adjustment check a regular part of your "Safety Maintenance" program. Sealed-Beam units are No. 6014 which are equipped with ground guide points for the use of a mechanical aiming device. Your authorized dealer is best qualified to adjust your headlights.



Headlight Replacement



Chassis Fuse Block

Headlight Beam Adjustment

NOTE: Cutouts in headlight bezel permit access to adjustment screws.

Headlights should be adjusted properly. The top adjusting screw provides vertical adjustment and the side adjusting screw provides horizontal adjustment. Headlights should not have to be adjusted after replacing Sealed-Beam unit, providing headlights were in proper adjustment before replacement and adjusting screws were not disturbed during replacement.

Headlight Replacement

To replace a Sealed-Beam unit, remove bezel. Then disengage the tension spring using a stiff hooked tool. Rotate the Sealed-Beam assembly slightly to disengage mounting ring slots from groove of each then pull adjusting screw, forward. Disconnect wiring at the base of unit and Sealed-Beam assembly separate the removing the two retaining screws. Install Sealed-Beam unit in reverse order removal.

EXTERIOR LIGHTS

All exterior lights can be easily replaced by removing lens, pushing bulb in slightly and turning counterclockwise, except side marker lights which are simply pressed in. Then, with new bulb, reverse procedure.

CHASSIS FUSES, FUSIBLE LINKS, CIRCUIT BREAKERS

The wiring circuits in your vehicle are designed to be protected from short circuits by a combination of fuses, circuit breakers, and fusible thermal links in the wiring itself. This helps to reduce the hazard of electrically-caused fires in the vehicle.

The fuse and circuit breaker block is located behind an access cover in the glove compartment. All chassis circuits are protected by fuses or circuit breakers located here except:

- HEATER BLOWER—Which has a fusible link built into harness located behind the right access door near the heater blower relay.
- HEADLAMP CIRCUITS—Are protected by a circuit breaker in the main light switch. An electrical overload in the light circuit will cause the lights to go on and off or in some cases to remain off. If this condition develops, have the wiring circuits checked immediately.

Circuit breakers of remote reset type can be reset only after turning the affected circuit control switch "OFF" for approximately 40 seconds, or by removing the breaker from clips for this period of time.

CAUTION

Do not touch body of any installed breaker of this type with bare hands; if circuit should happen to be shorted or overloaded—the breaker body could be hot and cause a burn, A replaceable fuse link is located at the battery pickup junction block behind the right access door. If an overload should occur, this link is designed to fail (open circuit) preventing damage to the main wiring harness. Another link of the same wire gauge and length must be installed in its place in the event of failures.

IMPORTANT: When replacing fuse or circuit breaker, make sure replacement is of same number as marked on block.

TURN SIGNAL HAZARD WARNING FLASHER

The turn signals and the hazard warning system both operate with the same flasher. This flasher is clipped behind the dashboard just to the right of the steering column.

WHEELS AND TIRES

TIRES

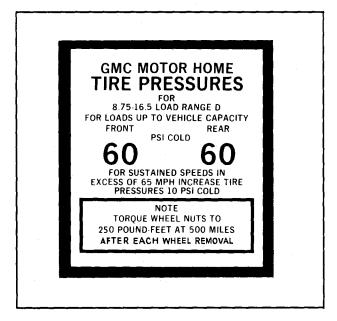
The factory installed tires vour on vehicle are designed to provide the best all-around performance for normal vehicle operation. When inflated as recommended on the "Tire Pressure Placard," located on glove compartment door of vehicle, the tires have the load carrying operate satisfactorily capacity to normal highway speeds.

Tire Care

Tires should be checked regularly for proper inflation pressure, wear, and damage. The following information will assist you in properly caring for your tires.

Inflation Pressure

Tire inflation pressures listed on the tire placard have been selected to provide the best tire life, riding comfort and handling stability for normal driving conditions.



Tire Pressure Placard

The of improper inflation use tire pressures can adversely affect tire life and vehicle performance. Too little air pressure can result in excessive tire heat, abnormal wear. adverse vehicle handling fuel Too much reduced economy. pressure can result in abnormal tire wear. ad verse vehicle ride and handling. increased susceptibility to damage by road impacts.

Tire pressures should be checked at least once a month (and preferably more often) or before long trips or when heavily loaded. The following points should be observed when checking and setting tire pressures.

- 1. Cold tire pressure ratings are applicable when a vehicle has been inoperative for 3 hours, or more, or driven less than one mile.
- 2. Tire inflation pressure may increase as much as 6 psi when hot (after vehicle has been driven 10 miles or at speeds of more than 60 MPH). Do not "bleed" or reduce pressures when tires are hot from driving.
- 3. For continuous high speed operation (over 65 MPH), increase tire inflation pressure to 70 psi.

4. Always use a tire pressure gauge when checking tire pressure.

Tire Damage & Repair

Tires with cuts, splits or cracks deep enough to expose the fabric, should be removed from service. Bulges usually indicate internal damage, and the tire should be removed. Tires with questionable damage should be removed from the wheel and examined by an expert.

If an air loss occurs while driving, do not attempt to drive on the deflated tire more than is necessary to stop safely. Driving even a short distance can damage a tire beyond repair.

Temporary repairs, such as "blowout" patches or any repair made from the outside of the tire should not be made except in emergencies. Such "stop-gap" devices as plugs and aerosol-type sealants are good for not more than 100 miles of driving at speeds not over 50 MPH. A permanent vulcanized repair, plug or patch applied from inside the tire, should be made as soon as possible. Also, the installation of an inner tube in a damaged tubless tire is not a recommended repair procedure.

Replacement Tires

When replacing tires, only the size (8.75-16.5), load range ("D"), construction type bias-ply steel belted) are recommended for installation on the vehicle.

IMPORTANT: Radial tires are not recommended for installation on the vehicle.

Use of any other tire may seriously affect ride, handling, speedometer/odometer calibration, vehicle ground clearance and tire clearance to the body and chassis. The following also should be considered when replacing tires:

- To achieve best all-around vehicle performance, bias-ply and bias-ply steel belted tires should not be mixed on the same vehicle.
- It is recommended that new tires be installed in pairs opposite each other (preferably the front wheels).
- When replacing only one tire, it should be paired with the tire having the least wear, to equalize braking traction.

Replacement Wheels

Wheels must be replaced if they become bent, are heavily rusted, if the lug nuts won't stay tight, or if they leak air. Straightening bent wheels or using inner tubes in leaking wheels are not recommended repair procedures.

When replacing wheels for any reason, care should be taken to insure that the wheels are equivalent to those removed in load capacity, diameter, rim width, and offset. Correct replacement wheels can be obtained from your GMC MotorHome dealer.

Use of any other size or type wheel may adversely affect wheel and wheel bearing life, brake cooling and stopping ability, headlamp aim, speedometer-odometer accuracy, bumper height, vehicle ground clearance and tire clearance to the body and chassis.

The use of used wheels is also not recommended; if they have been run overloaded or under other sever operating conditions for extended periods, the wheel's life may have been greatly shortened.

Tire Warranty

Tires are warranted by the tire manufacturers as covered in the New Vehicle Warranty folder.

Tire Traction

A decrease in driving, cornering, and braking traction occurs when water, snow, ice, gravel, or other material is on the road surface. Driving practices and vehicle speed should be adjusted to the road conditions.

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tire and road surface. This phenomenon, known as hydroplaning, may cause partial or complete loss of traction, which adversely affects vehicle control and stopping ability. To reduce the possibility of traction loss, the following precautions should be observed:

- 1. Slow down during rain-storms or when roads are slushy.
- 2. Slow down if road has standing water or puddles,
- 3. Replace tires when tread wear indicators are visible.
 - 4. Keep tires properly inflated.

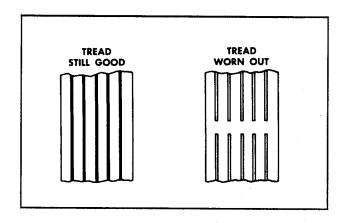
Snow Tires

If the vehicle is expected to encounter muddy or snowy driving conditions it is recommended that front driving wheels be equipped with mud and snow type tires.

If you equip your vehicle with mud and snow tires, they should be of the same size, load range, and construction as original equipment tires. It is recommended that vehicle speeds be limited to a maximum of 75 mph if mud and snow tires are installed.

Tire Wear and Rotation

Uneven or abnormal tire wear is usually the result of incorrect inflation pressure, improper wheel alignment, wheels being out-of-balance, or poor driving habits. Under-inflation, over-inflation, incorrect toe or camber and fast cornering produce different types of abnormal wear which can be diagnosed by your dealer.

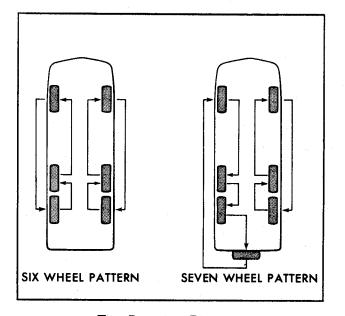


Tire Tread Wear Indicator

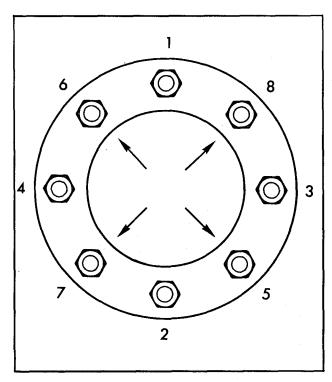
To equalize wear it is recommended that the tires be rotated every 6,000 miles (or sooner if irregular wear develops) as shown.

NOTE: It is recommended that disc brake pads be inspected for wear whenever tires are rotated.

The original equipment tires incorporate built-in tread wear indicators to assist you in determining when your tires have worn to the point of needing replacement. These indicators appear as 1/2-inch wide bands when tire tread depth is 1/16-inch or less. When the indicators appear in two or more adjacent grooves, tire replacement due to tread wear is recommended.



Tire Rotation Diagram



Wheel Stud Tightening Sequence

Tightening Wheel Stud Nuts

When the vehicle is new or after wheels have been replaced, it is the owner's responsibility to check wheel stud nuts at 500 miles and after every wheel removal thereafter. Nuts should be tightened to 250 foot-pounds torque in sequence shown.

CAUTION

If any wheel experiences a single stud failure caused by a loose-running wheel, all wheel studs should be replaced.

A loose-running wheel may cause only one stud to break, but several more studs may become fatigued to the point of failure, but not actually breaking. Replacing only the broken stud and remounting wheel will then set the stage for a second and possible more serious failure. If holes in the wheel have become elongated or enlarged, replace wheel.

Tighten wheel stud nuts as follows:

- 1. Install all nuts loosely, then finger-tighten only the nuts marked by arrows.
- 2. Tighten all nuts to specified torque in sequence illustrated. Never use oil or grease on studs or nuts.

See IN CASE OF EMERGENCY section for procedure used to change tire.

REAR WHEEL BEARING ADJUSTMENT

A periodic rear wheel bearing repack is required as indicated in Maintenance Schedule folder. These bearings should be cleaned and repacked with Lithium Soap Multi-Purpose Grease Meeting GM Specification 6031-M or equivalent.

The adjustment of the bearing must be done with the wheel off the floor, and rotating the wheel while tightening nut. At this time make the torque readings as follows:

- 1. Tighten adjusting nut with a torque wrench to 25-30 foot-pounds with wheel rotating to ensure that all parts are properly seated and threads are free.
- 2. Back off nut one-half turn. Re-tighten nut finger-tight.
- 3. If unable to install cotter pin at finger-tight position, back off one slot, then secure with cotter pin.
- 4. End play should be .001" to .005". Also at this interval the rear suspension control arms should be lubricated. This is accomplished at the fittings between the rear wheels.

FRONT SUSPENSION

The front suspension consists of control arms, stabilizer bar, shock absorbers and a right and left torsion bar. The front suspension components are designed satisfactory service. ride, provide handling if not overloaded and adjusted to specified vehicle front end ride height.

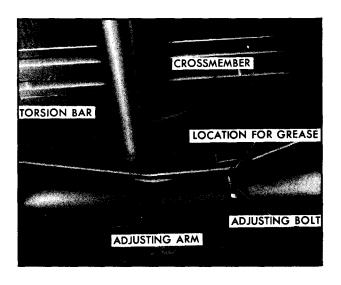
No maintenance other than lubrication is normally required. Refer to lubrication information given earlier in this seciton for intervals and lubrication points.

The front of the torsion bar is attached to the lower control arm. The rear of the torsion bar is mounted into an adjustable arm. The front ride height is controlled by this adjustment.

The simplest way to adjust is to move arm slightly to achieve ride height and drive unit a few blocks so as to overcome delaying action.

NOTE: Ride height is measured from top of elongated slot in frame rail to ground level. Tire inflation should be checked prior to making any ride height adjustment.

Ride hieght should be adjusted by raising vehicle to relieve strain on adjusting bolt. Lubricate adjusting bolt with chassis grease. Adjustment is made by repositioning adjusting bolt to wind-up and unwind



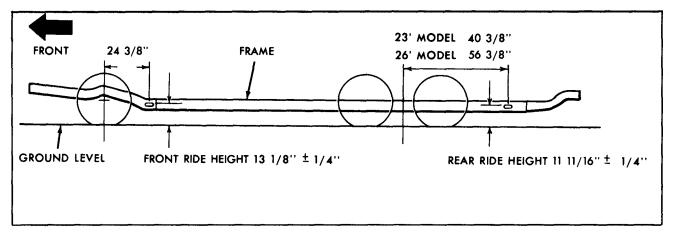
Location-Front Ride Height Adjustment

torsion bar. Whenever ride height is changed, be sure to check front end alignment and readjust if necessary.

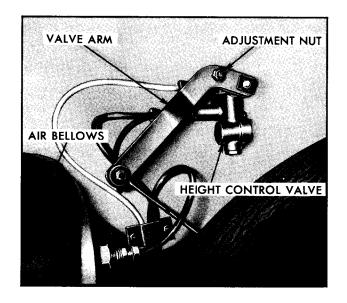
NOTE: Overloading and incorrect ride height can create serious problems and shorten the service life of the vehicle. Adjust front suspension ride height to specifications shown.

REAR SUSPENSION

The rear suspension consists of control arms, mounting brackets, air bellows, shock absorbers, air compressor, solenoid valves, wet tank, and height control valves. The system operates automatically as load varies, and is designed to maintain a constant frame height.



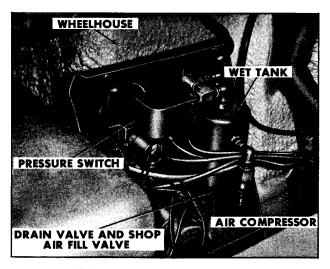
Checking Vehicle Ride Height



Location-Rear Ride Height Adjustment

NOTE: Ride height is measured from top of elongated slot in frame rail to ground level. Tire inflation should be checked prior to making any ride height adjustments.

The rear suspension can be manually adjusted for variations in load distribution. Adjustment is made at the adjustment nut on the height control valve arm.



Electro-Level Components

MAINTENANCE

1. The wet tank (see illustration) should be drained at 3 month or 3,000 mile intervals, or more often if above normal air compressor operation is encountered.

NOTE: Electro-Level components are located on the left-side of the vehicle at the wheelhouse.

2. The air compressor must periodically have the air filter washed with soap and water solution or replaced. Filter should be serviced at intervals specified in Maintenance Schedule folder.

NOTE: Occasionally check air bellows to see if they are caked with accumulated mud deposits. If deposits are present remove them from air bellows.

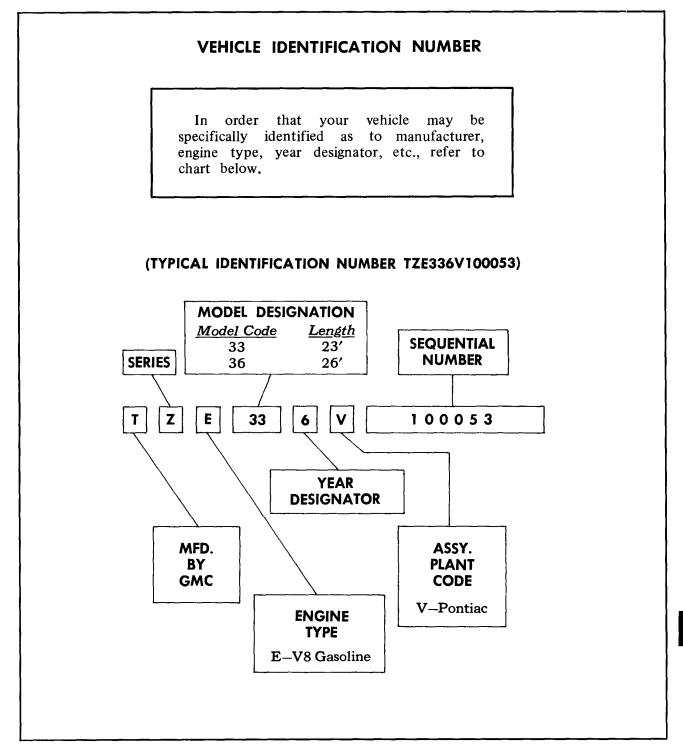
UNDERBODY MAINTENANCE

The effects of salt and other corrosive materials used for ice and snow removal and dust control can result in accelerated rusting and deterioration of underbody components such as brake and fuel lines, system, brackets. exhaust brake cables. These corrosive effects. however, reduced can be bv periodic flushing of the underbody with plain water. geographic areas having concentration of such corrosive materials, it is re commended that the complete underbody be inspected and flushed 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.

If desired, your Motor Home dealer can perform this service for you. In addition, he can provide recommendations on undercoating materials which will help protect your vehicle from corrosion. (See "Undercoating" in APPEARANCE CARE section.)

SECTION 6

SPECIFICATIONS, OWNER ASSISTANCE, INDEX, GAS STATION INFORMATION



Vehicle Identification Number

VEHICLE DIMENSIONS

Track
Rear-82.12 in. Wheelbase
Length (Including optional spare tire) 23' Model 23 ft9in. 26' Model 26 ft9in.
Width
Interior Ceiling Height
CAPACITIES
Fuel SystemTwo, 25 Gal. TanksCooling System21 Qts.Engine Oil5 Qts. (Including Filter 6 Qts.)Turbo HydramaticDrain & Refill 4 Qts.After Complete Overhaul 12 Qts.Final Drive (Differential)4 Pts.Power Steering Pump1/2 Qt.Power Steering System1 1/2 Qt.
ENGINE*
Displacement 455 cu. in. Carburetor 4 Barrel Compression Ratio 8.5 : 1 Bore 4.125 in. Stroke 4.250 in. Firing Order 1-8-4-3-6-5-7-2 High Energy Ignition System Spark Plugs AC R46SX Spark Plug Gap 0.080 in. Dwell Electronic *See Tune-up label on engine for additional specifications.
BATTERIES
Main (Automotive) Battery Maintenance-Free Type Freedom Catalog No. R89-5 No. R89-5 Rated 4000 Watts @ 0°F. (-18°C.) Flame Arrestor Vent Cap Type E 5000 Catalog No. R91 No. R91 Rated 3350 Watts @ 0°F. (-18°C.)
Auxiliary Battery Maintenance-Free Type Freedom Catalog No. R89-5 No. R89-5 Rated 4000 Watts @ 0° F. (-18° C.) Flame Arrestor Vent Cap Type E 5000 Catalog No. R91 No. R91 Rated 3350 Watts @ 0° F. (-18°C.) Motor Generator (Optional) Battery Maintenance-Free Type Freedom Catalog No. R 85-5 No. R85-5 Rated 3200 Watts at 0°F. (-18°C.)

MISCELLA NEOUS

Radiator cap (pressure opening)							9 PSI
					AC	Type	RC32
Thermostat			•				195°F.

TIRE INFORMATION

SEE "Wheels and Tires" in the SERVICE AND MAINTENANCE section of this manual and the tire placard on the glove box door.

FILTER RECOMMENDATIONS

Engine Air Cleaner AC Type A212	CW
Engine Oil AC Type PI	730
Transmission Oil AC Type PF	160
Engine Fuel AC Type GF4	141
PCV Valve AC Type CV67	'9C
Carbon Canister	14
Onan Motor Generator	
Oil Filter	319
Fuel Filter	267
Air Cleaner Element	391

FRONT END ALIGNMENT

								 			+2° ±1/2° R.H. +1/2° ± 1/4° L.H. + 3/4° ± 1/4°
*L.H.	(Inches) and R.H. m camber mus	ust	be	wit	hin	1/	 '2°.	 •	•	• •	$1/8 \pm 1/8$

VEHICLE FUSES AND CIRCUIT BREAKERS

The following fuses are located in the fuse block behind the glove box in the dash. Do not use fuses or higher amperage rating than those specified below—or property damage may result.

x. BatRadioA/C I-Dome . SigHaz. & Stop	AGC-10 AGC-25 SFE-20A SFE-20A
l-Dome	SFE-20A
. SigHaz. & Stop	SFE-20A
	I
sher	AGC-10
	SFE-20A
ise-B/U Lps.	SFE-20A
uges-Trans.	SFE-10A
t. Lps.	SFE-4A
l-Tales	AGC-10
31	uges-Trans. st. Lps.

ONAN MOTOR GENERATOR (6000 WATT-50 AMP)

Bore	3 9/16 in.
Stroke	3 in.
Oil Capacity	4 Qt.
(With Filter Change)	4 1/2 Qt.
Spark Plug Type	. ACR46S
Spark Plug Gap	020 in.
Breaker Point Gap	020 in.
Ignition Timing (Running or Static)	25° BTDC
Tappet Adjustment (Engine Cold)	
Intake	003 in.
Exhaust	012 in.

LIGHT BULB SPECIFICATIONS (INSTRUMENT PANEL)

Usage	Quantity	Bulb No.
Brake System Tell Tale	1	161
Generator Tell Tale	1	161
Park Brake Tell Tale	1	74
Cruise Control Tell Tale	1	74
Door Ajar Tell Tale	1	74
Low Fuel Tell Tale	1	74
Engine Water Tell Tale	1	74
Electro-Level Tell Tale	2	74
High Beam Indicator	1	161
Turn Signal Indicator	2	168
Instrument Cluster Lights	2	194
Speedo Cluster Lights	2	194
Dome Lights	2	211
Radio Dial (AM/FM/Stereo/Tape)	1	566
Radio Dial (Exc. AM/FM/Stereo/Tape)	1	1893
Heater Control	1	1895

LIGHT BULB SPECIFICATIONS (EXTERIOR)

Usage	Quantity	Bulb No.
Clearance and I.D.	10	67
License	1	67
Side Markers—Front	2	194
Side Markers—Rear	2	194
Back-up Lights	2	1156
Parking and Turn Signals	2	1157
Stop and Tail	2	1157
Headlights	2	6014

OWNER ASSISTANCE

The satisfaction and goodwill of the owners of GMC Truck & Coach products are of primary concern to your dealer and the GMC Truck & Coach Division. Normally, any problems that arise in connection with the sales transaction or the operation of your be handled by dealer's Sales or vehicle will your Departments. It is recognized, however, that despite the best intentions of everyone concerned, misunderstandings will sometimes occur. If you have a problem that has not been handled to your satisfaction through normal channels, we suggest that you take the following steps:

STEP ONE—Discuss your problem with a member of dealership management. Frequently, complaints are the result of a breakdown in communications and can quickly be resolved by a member of the dealership management. If the problem already has been reviewed with the Sales Manager or Service Manager, contact the Dealer himself or the General Manager.

STEP TWO—Contact the GMC Truck & Coach Division Zone Office closest to you listed on page 74 (or in Canada contact the general Motors Zone Office). When it appears that your problem cannot be readily resolved by the service outlet without additional assistance, the matter should be called to the attention of the Zone's Customer Services Department and the following information provided:

- Your name, address, telephone number
- Vehicle Identification Number*
- Dealer's name and location
- Vehicle's delivery date and mileage
- Nature of problem

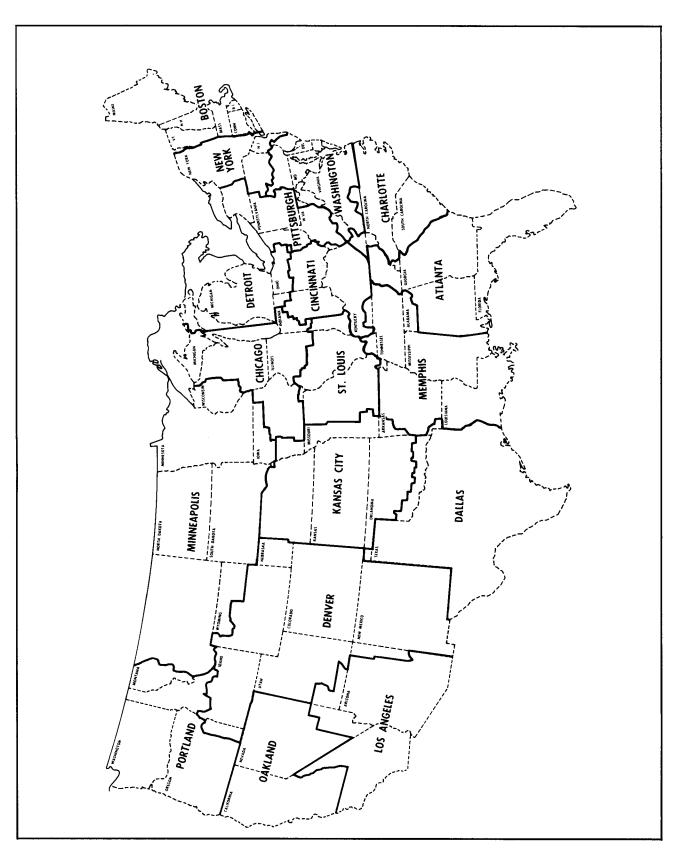
STEP THREE—Contact the Customer Services Manager, GMC Truck & Coach Division, 660 South Blvd. East, Pontiac, Michigan 48053 (phone 313-857-4547). In Canada, contact the Owner Relations Manager, General Motors of Canada Limited, Oshawa, Ontario (phone 416-644-6624). If after an additional review of all facts involved he feels that some further action can be taken, he will so instruct the Zone. In any case, your letter will be acknowledged providing GMC Truck & Coach Division's position in the matter.

When contacting the Zone or Home Office, please bear in mind that ultimately your problem likely will be resolved in the dealership utilizing the dealer's facilities, equipment and personnel. It is suggested, therefore, that you follow the above steps in sequence when pursuing a problem.

Your purchase of a GMC Truck & Coach product is greatly appreciated by both your dealer and GMC Truck & Coach Division. It is our sincere desire to assist you in any way possible to assure your complete satisfaction with your vehicle.

^{*}Available from vehicle registration, title or vehicle identification plate.

U.S. ZONE TERRITORIES



U.S. ZONE OFFICES

When calling for assistance, please ask for Customer Services Manager

ATLANTA

5730 Glenridge Drive Atlanta, Georgia 30302 455-5564

Area Code 404

BOSTON

20 Cross St. Woburn, Mass. 01801

935-6858

Area Code 617

CHARLOTTE

1914 W. Morehead

P.O. Box 8149

Freedom Station

Charlotte, N. C. 28208

332-4181-82-83

Area Code 704

CHICAGO

Commerce Plaza 2021 Spring Road Oak Brook, Ill. 60521

Mail-P.O. Box 4392

Chicago, Ill. 60680

CINCINNATI

4010 Executive Park Drive

Suite 320

Cincinnati, Ohio 45241

841-5856

Area Code 513

DALLAS

6007 Peeler Street

P.O. Box 35187

Airlawn Station

Dallas, Texas 75235

688-5611

Area Code 214

DENVER

4715 Colorado Blvd. Denver, Colo. 80216

320-5087

Area Code 303

DETROIT

600 S. Saginaw

Plant 4

Pontiac, Mich. 48053

857-3553

Area Code 313

KANSAS CITY

1509 N.E. Parvin Rd.

Kansas City, Mo. 64116

281-6062

Area Code 913

LOS ANGELES

8155 Van Nuys Blvd.

Suite 1030 Panorama Towers Panorama City, Calif. 91402

873-7554

Area Code 213

MEMPHIS

3495 Lamar Ave.

Box 18467

Holiday City Sta.

Memphis, Tenn. 38118

365-9210

Area Code 901

MINNEAPOLIS

3001 Broadway N.E. Minneapolis, Minn. 55413

331-4282

Area Code 612

NEW YORK

780 Dowd Avenue Elizabeth, N.J. 07207

354-5860

Area Code 201

OAKLAND

10626 E. 14th Street

P.O. Box 24033

Oakland, Calif. 94603

568-6929

Area Code 415

PITTSBURGH

Two Parkway Center

875 Greentree Rd. Pittsburgh, Pa. 15220

922-8339

Area Code 412

PORTLAND

5355 S.W. Western Avenue

Beaverton, Ore. 97005

646-8333

Area Code 503

ST. LOUIS

Suite 320

Crestwood Executive Center

St. Louis, Mo. 63126

849-0990

Area Code 314

WASHINGTON

Suite 410-Profess. Bldg.

1109 Spring St.

Silver Spring, Md. 20910

659-3166

Area Code 202

Note: The State of Alaska

is serviced by the Portland Zone

GENERAL MOTORS OVERSEAS DISTRIBUTION CORPORATION OFFICES

HAWAII, GUAM, AMERICAN SAMOA

1600 Kapiolani Boulevard Suite 714

Honolulu. Hawaii

Mail-P.O. Box 341

MEXICO ADDRESS General Motors de Mexico S.A. de C.V.

Av. Ejercito Nacional No. 843 Mexico 5, D.F.

545-3921

PANAMA CANAL ZONE

Edificio De Diego Esq. Calle 41 Y

Avenida Balboa Panama, R.P.

Mail-Apartado 7872

Panama 9, Republic of Panama

PUERTO RICO, U.S. VIRGIN ISLANDS

Suite No. 10

Centro Comercial San Francisco

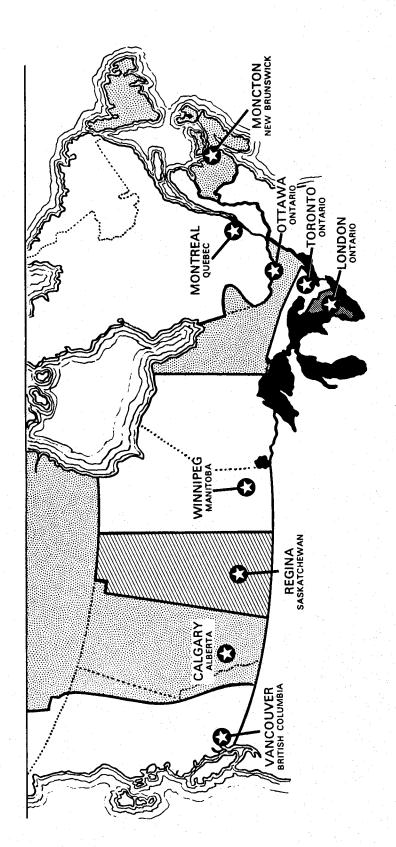
Avenida De Diego

Rio Piedras, Puerto Rico

Mail-G.P.O. Box 4382

San Juan, Puerto Rico

GM OF CANADA LIMITED—ZONE OFFICES



ZONES	ADDRESS	AREA CODE	AREA CODE PHONE NO.
TORONTO	1200 Eglinton Ave, East Don Mills, Ont. M3C 1J1	416	446-5053
OTTAWA	875 Belfast Road Ottawa, Ont. KIG 024	613	237-5051
MONTREAL	5000 Trans-Canada Hwy. Pointe Claire, Quebec H9R 4R2	514	0916-269
MONCTON	653 St. George Street Moncton, N.B. E1C 8M2	206	854-1500

ZONES	ADDRESS	AREA CODE	AREA CODE PHONE NO.
VANCOUVER	900 Terminal Avenue Vancouver, B.C. V6A 2N6	604	684-9444
CALGARY	Box 2510 Calgary, Alberta T2P 2M7	403	243-4621
REGINA	581 Park Street Regina, Sask. S4P 3E9	306	643-2224
WINNIPEG	1345 Redwood Avenue Winnipeg, Man. R2X 0Y9	204	633-1080
LONDON	1991 Oxford St. E. London, Ontario N6A 4P6	519	455-2400

24-HOUR PHONE ASSISTANCE

- Need answers to service or maintenance questions?
- Want to discuss vehicle specifications?
- Want to know where the GMC MotorHome dealer is located?

NORMAL BUSINESS HOURS

GMC offers you direct-to-factory communication. You can dial toll free Monday through Friday between 8:15 A.M. and 5:00 P.M. (EST) and talk with qualified personnel by calling the number below.

AFTER-HOUR INFORMATION SERVICE

If you have attempted to contact a GMC MotorHome dealer after normal business hours, without success, you may call the toll-free number below. The operator who will answer has a list of private numbers through which many dealers can be reached after hours and will give you the number and location of the nearest one.

It should be understood, however, that any charges for after-hours service assistance must be borne by the owner. In those instances where the repair qualifies under our published warranty, the dealership charge for additional services, such as for, after normal business hour repairs will be the owner's expense.

800-521-2806

In Michigan call: 800-572-7959

MAINTENANCE MANUAL AND PARTS BOOK

Maintenance Manual and/or Parts Book can be purchased through any GMC MotorHome dealer.

IMPORTANT FACTS YOU SHOULD KNOW ABOUT GASOLINE MILEAGE AND HOW TO IMPROVE IT

How you drive, where you drive, and when you drive all have an effect on how many miles you can get from a gallon of gasoline. The careful attention you give your vehicle as far as maintenance and repairs are concerned will also contribute importantly to fuel economy.

FUEL SELECTION

Use an unleaded gasoline or regular grade leaded gasoline. Additional details on Fuel Requirements are given in SERVICE AND MAINTENANCE section.

"JACKRABBIT" STARTS

Gasoline can be conserved (and engine and tire life prolonged) by avoiding unnecessarily rapid acceleration away from lights and stop signs.

STOP-AND START DRIVING

Frequent stops and starts during a trip really cut down on your miles per gallon. Plan even your short trips to take advantage of through streets to avoid traffic lights. Pace your driving like the professional drivers to avoid unnecessary stops.

EXCESSIVE IDLING

An idling engine uses gasoline, too. If you're faced with more than a few minutes wait and you're not in traffic, it may be better to "turn off" and start again later.

SUDDEN STOPS

Sudden stops themselves don't waste gasoline, but energy is wasted as heat in braking. Energy in the form of gasoline is also needed to accelerate back to driving speed.

LUBRICANTS

A properly lubricated vehicle means less friction between moving parts. Consult this manual and the maintenance schedule for the proper lubricants to use and the lubrication intervals.

AIR CLEANER

Your vehicle receives its power from a mixture of gasoline and air. The air is taken into the system through the air cleaner so it's important to replace the air cleaner at required intervals. A dirty air cleaner reduces engine efficiency.

PROPERLY TUNED ENGINE

Overall tuning (a check on timing, spark plugs, emission control devices, etc.) can improve your vehicle's gas mileage. You just can't expect an "out-of-tune" engine to give you good gas mileage and cleaner air.

EXCESS WEIGHT

Fuel economy is related to the work the engine must do. The heavier the load, the more power it takes. Keep excess weight to a minimum by removing any personal effects or luggage from the vehicle when they are not needed.

TIRE INFLATION

Underinflation not only causes needless wear of the tires, but can also waste gasoline. It's a good idea to check tire pressures regularly.

WHEEL ALIGNMENT

"Toe in" or "toe out" has the effect of dragging your front tires sideways and causes premature tire wear. It takes power to carry this extra load and that takes gas from your tanks.

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GAS STATION INFORMATION

Refer to SERVICE AND MAINTENANCE section for details on removal and installation of engine cover, placing vehicle on suitable hoist, etc.

CAUTION

To help prevent the possibility of fire or explosion, turn off LP gas supply at the LP gas tank and be sure all pilots are out, before filling gasoline tanks.

Always check that fluid inputs are made into the correct filler opening to help avoid serious personal injury and property damage.

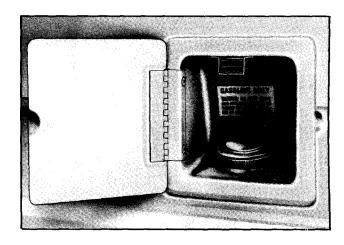
GAS CAP-Located on the left side of the vehicle, directly under the driver's window. See gas cap removal procedure in SERVICE AND MAINTENANCE section.

GASOLINE RECOMMENDATION—Use an unleaded gasoline or regular grade leaded gasoline. Additional details on Fuel Requirements are given in the SERVICE AND MAINTENANCE section.

FRONT ACCESS DOORS—Release by turning latch knob to the left to loosen.

ENGINE OIL DIPSTICK—Located inside the left front access door. Check oil level as the last operation in a fuel stop. Maintain between "ADD" and "FULL" marks on dipstick.

ENGINE OIL RECOMMENDATION—Use only high quality SE oils. The chart in the SERVICE AND MAINTENANCE section will serve as a guide for selecting proper oil viscosity.



TIRE INFLATION PRESSURES—Check at least monthly. Keep inflated to pressures shown on tire placard affixed on the inside of the glove compartment door.

WINDSHIELD WASHER—Check reservoir fluid level regularly. Use a washer fluid, such as GM Optikleen.

ENERGIZER (BATTERIES)—Check fluid level monthly. Add only colorless, odorless drinking water or distilled water to bring level to split ring in filler opening.

