

nineteen sixty-three corvette



owners guide

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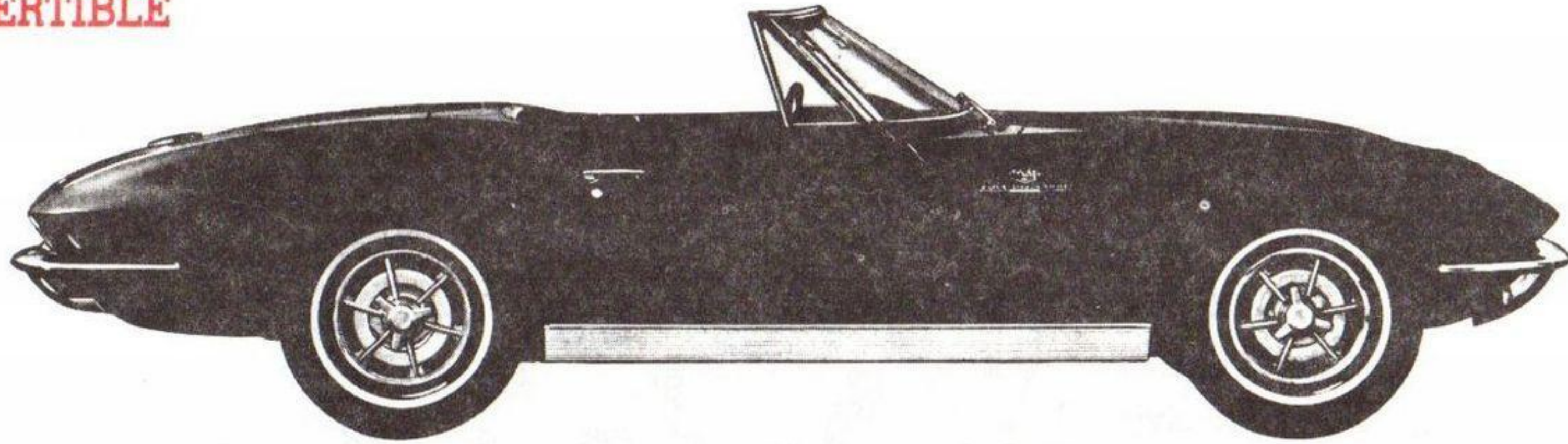
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All information contained in this booklet is the latest product information available at the time of printing. The right is reserved to make changes at any time without notice.

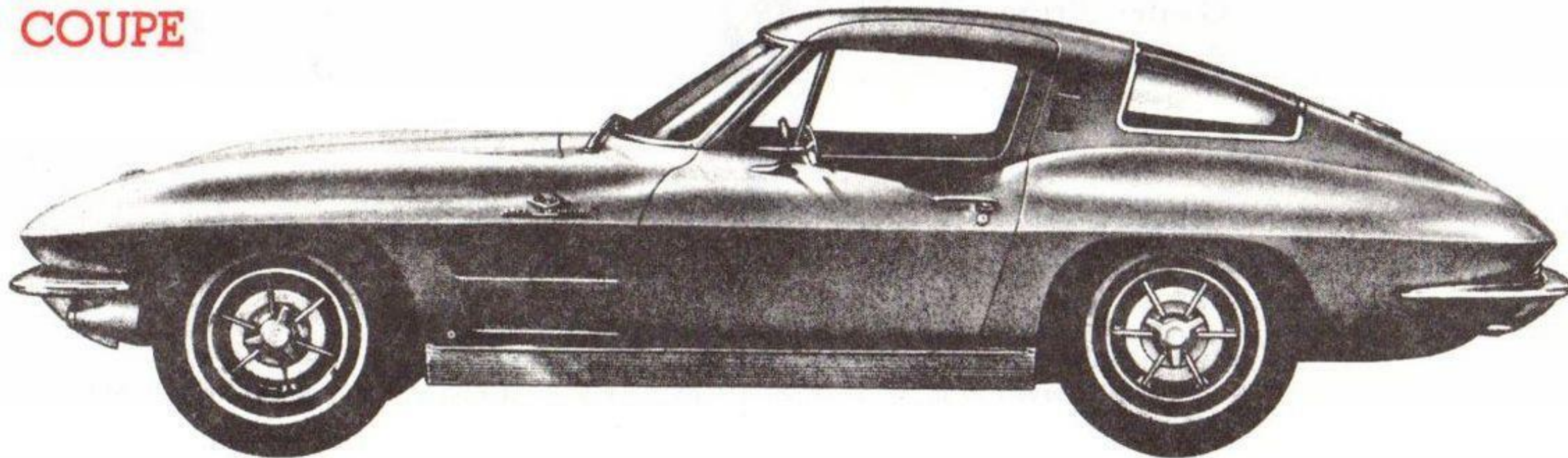
Part No. 3821497

SECOND EDITION

CORVETTE
STING RAY
CONVERTIBLE



CORVETTE
STING RAY
SPORT COUPE



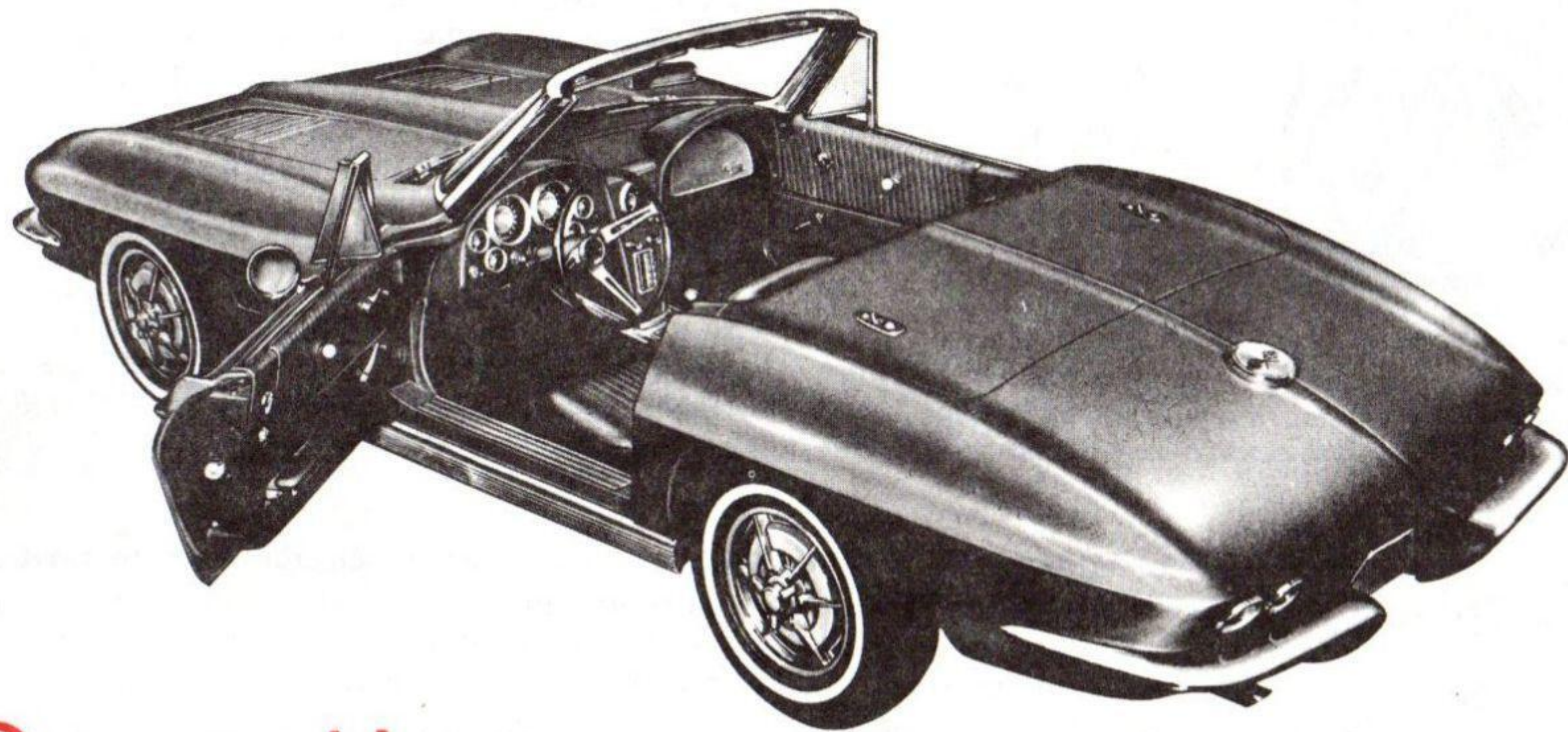
A Word to Owners

During your first thousand miles of driving, you can, by observing a few simple precautions, contribute greatly to a longer life for your Corvette and add much to its future performance and economy of operation.

It is recommended that your speed during these first one thousand miles be confined to a maximum of 60 mph. However, do not drive for extended periods at any one constant speed, either fast or slow. During this period, avoid full throttle "jack rabbit" starts and quick abrupt stops. The first few hundred miles of driving are especially important to proper brake operation. Gentle braking during this period will allow proper conditioning of the brake linings and result in longer brake life and better future performance.

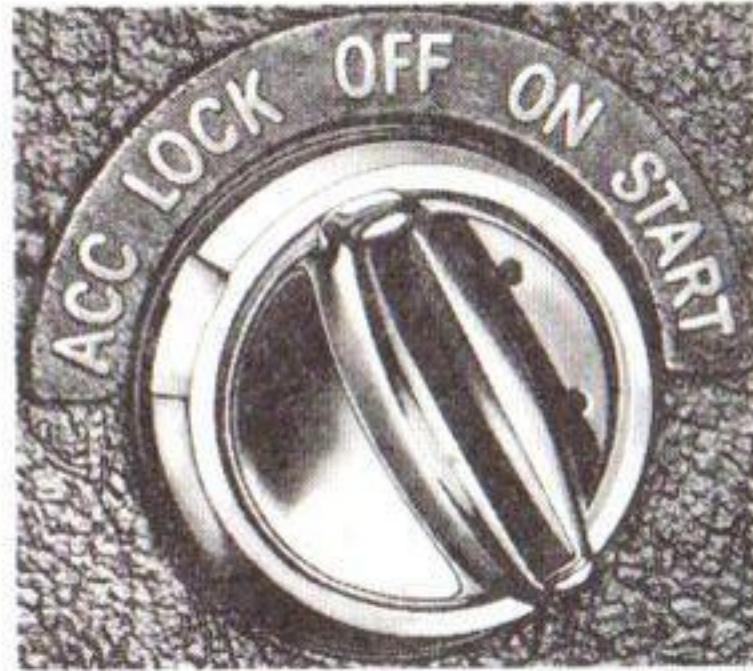
After one thousand miles, your Corvette may be called upon to deliver any speed you desire, within local regulations, for as long as you wish. It is best to always drive at a reasonable speed until the engine has warmed up.

Be particularly careful to maintain the proper oil level in the engine. Check the oil level frequently and, if it becomes necessary to add oil, follow closely the recommendations as to quality and viscosity found in this booklet. Use of the proper engine oil is of great importance to assure maximum performance and economy.



Operating Instructions

Starting the Engine



IGNITION SWITCH

The five-position ignition switch allows full control of the electrical systems of your Corvette. To start engine turn the switch to START and release as soon as the engine fires. The switch will return to the ON position and all electrical circuits will be ready for use. Use OFF, LOCK and ACC positions to stop the engine. The ACC position will allow you to use all accessories without energizing the ignition system.

NOTE: Key cannot be removed from the ignition switch when in OFF or ACC position, thus guarding against accidentally leaving switch OFF but not locked. Key may be removed when the switch is in LOCK or ON position and the switch may be moved between ON and OFF positions without the key.

STARTING PROCEDURES

Carburetor Equipped Corvettes—Place the transmission selector lever in neutral or park position and, on manual transmission equipped models, push the clutch pedal down while starting engine. Depress the accelerator pedal to the floor and fully release. Turn the ignition switch to START and hold until the engine fires.

During temperatures of 0° F, and below, and when the engine is hot, the accelerator pedal should be *held* part way down while starting.

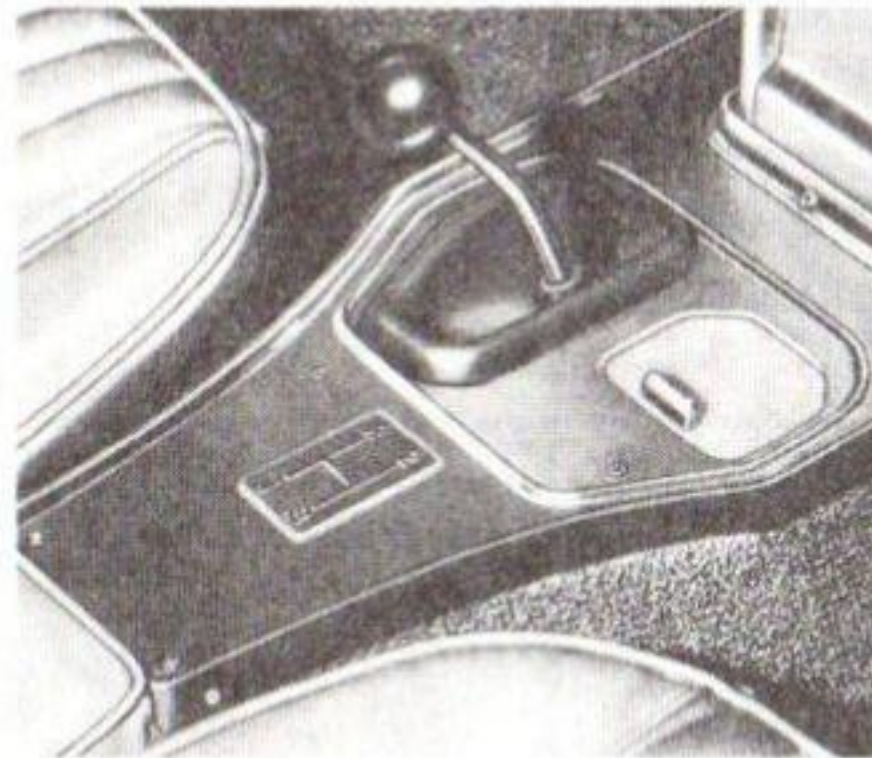
Start a “flooded” engine by holding accelerator pedal to the floor while cranking engine.

Fuel Injection Equipped Corvettes—see page 9 for starting procedures.

CAUTION: Carbon monoxide is a poisonous gas produced by the engine of any car. It is odorless so you cannot detect its presence. Be safe. Never start or run your Corvette in a closed garage.

Operation of the Manual Transmissions

Both Corvette manual transmissions are controlled by the shift lever located on top of the floor tunnel. You will find the shift pattern for your transmission pictured on a plate just behind the shift lever. During acceleration, always shift into the next higher gear before the engine begins to overspeed; and when



**THREE-SPEED
TRANSMISSION**



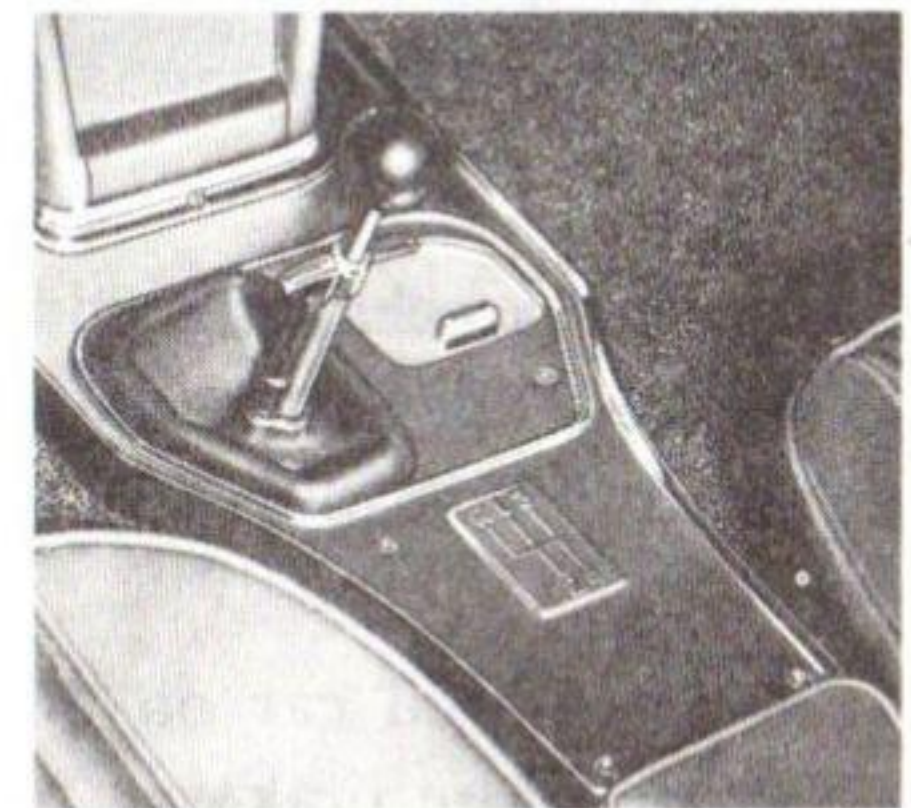
The optional four-speed manual transmission provides four forward speeds. The closely spaced ratios make it possible for you to accelerate with a minimum loss of engine rpm at the shift points. You will enjoy the performance and feel of a direct connected engine. Since all forward speeds are synchronized the transmission can be used to assist in deceleration by downshifting in the third-second-first sequence.

slowing down, shift into the next lower gear before the engine “lugs” or labors.

Do not “ride” the clutch. Depress the pedal only when actually shifting the transmission and then clear to the floor. Use your brakes rather than the clutch pedal to hold your Corvette on a hill.

The Corvette three-speed manual transmission is designed to provide high performance under ordinary driving conditions as well as during high speed operation. Gear ratios were selected to keep the engine operating in its high output range as consistently as possible and permit upshifting and downshifting between second and third speed at high speeds.

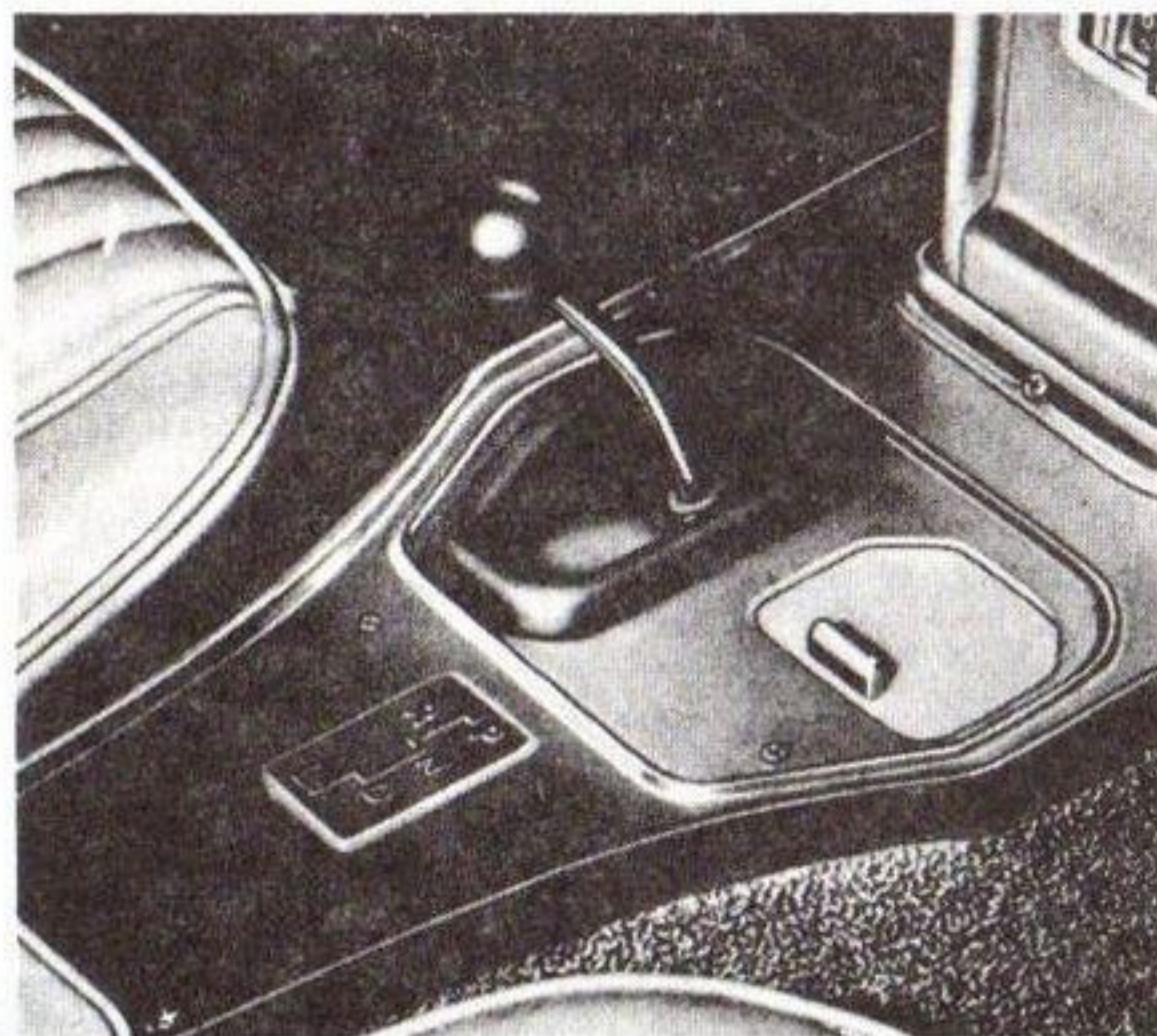
**FOUR-SPEED
TRANSMISSION**



Operation of the Powerglide Transmission

The optional Powerglide is a completely automatic transmission which replaces the standard clutch and transmission. After starting the engine with the selec-

tor lever in "N" (Neutral) or "P" (Park) position, merely select the range desired and depress the accelerator. The transmission will do the rest.



P—PARK	Use only when car is stopped.	Car parked
R—REVERSE	For backing car—from stop.	Normal driving range
N—NEUTRAL	For standing—brakes applied.	
D—DRIVE	For all forward driving—step hard on accelerator for extra acceleration below 45 mph.	
L—LOW	For hard pulling at low speeds and climbing or descending steep grades. Shift to L only below 40 mph.	Sand, snow, mud and steep grades

POWERGLIDE DRIVING CAUTIONS

- Do not accelerate engine in L, D, or R with the brakes engaged. This can cause damage by overheating transmission.
- Do not hold car on an upgrade by accelerating engine. Use brakes.
- Do not use Low position except for hard pulls at low speed or down-hill braking at speeds below 40 MPH.
- Do not shift into Reverse or Park before coming to a complete stop.
- Always engage parking brake when parked.

Driving with Fuel Injection

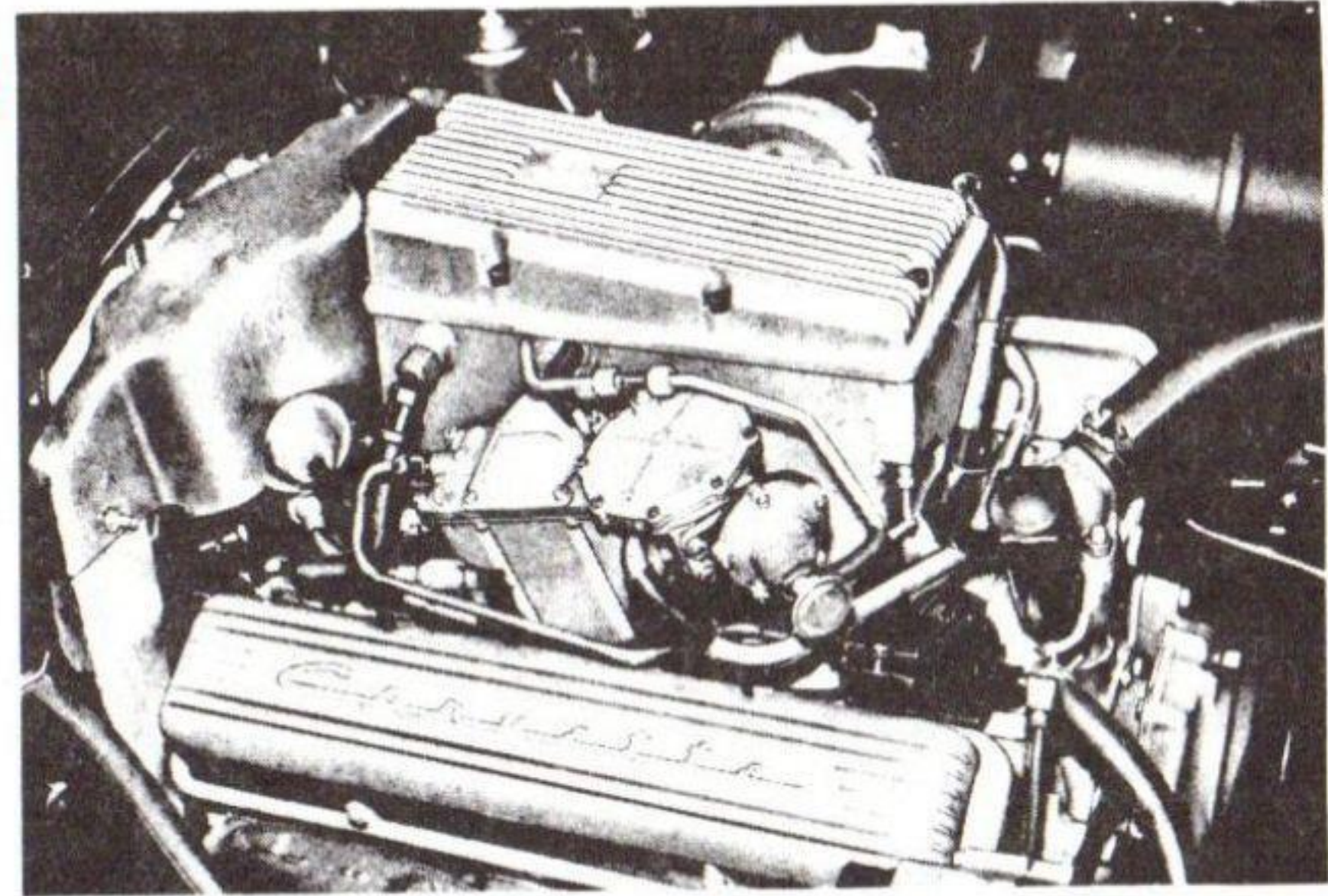
Starting and driving procedures for Fuel Injection equipped Corvettes are basically the same as outlined on Page 6 for the carburetor equipped vehicles.

HOT STARTING—When starting while the engine is hot, depress the accelerator slightly and *hold* while cranking the starter until the engine fires.

Driving with Positraction

The positraction rear axle will give you constant driving force on both rear wheels, especially helpful in the winter and during other slippery driving conditions which might stop a conventionally equipped vehicle. During turns, the positraction axle applies the major driving force to the inside rear wheel thus

Driving with Metallic Brake Linings



improving stability and cornering. Normal light throttle application will supply maximum traction. When starting with one rear wheel on an excessively slippery surface, slight application of the parking brake may be necessary momentarily to gain maximum traction.

If your Corvette is equipped with optional metallic brake linings, you will find that somewhat more than normal pedal pressure will be required to stop the car until you have made several stops to warm up the linings.

Pushing and Towing Tips

PUSHING CAR TO START

Should it ever become necessary to start the engine by pushing the car (towing to start is not recommended as car being towed may accelerate into tow car), proceed as follows:

Turn off all electrical loads such as radio, heater and, if possible, lights until the engine starts.

MANUAL TRANSMISSION — Turn ignition switch to "on." Place shift lever in high (3rd on 3-speed transmissions, 4th on four-speed) and depress clutch. When car reaches 25-30 miles per hour, slowly release clutch to start engine.

POWERGLIDE TRANSMISSION — Turn ignition switch to "on" and place selector lever in "N." When car reaches a speed of 25-30 mph, place the selector lever in "L." When engine starts, place selector lever in "D."

TOWING A DISABLED CAR

If your Corvette must be towed, the following precautions must be observed:

MANUAL TRANSMISSION — Release parking brake and place shift lever in neutral.

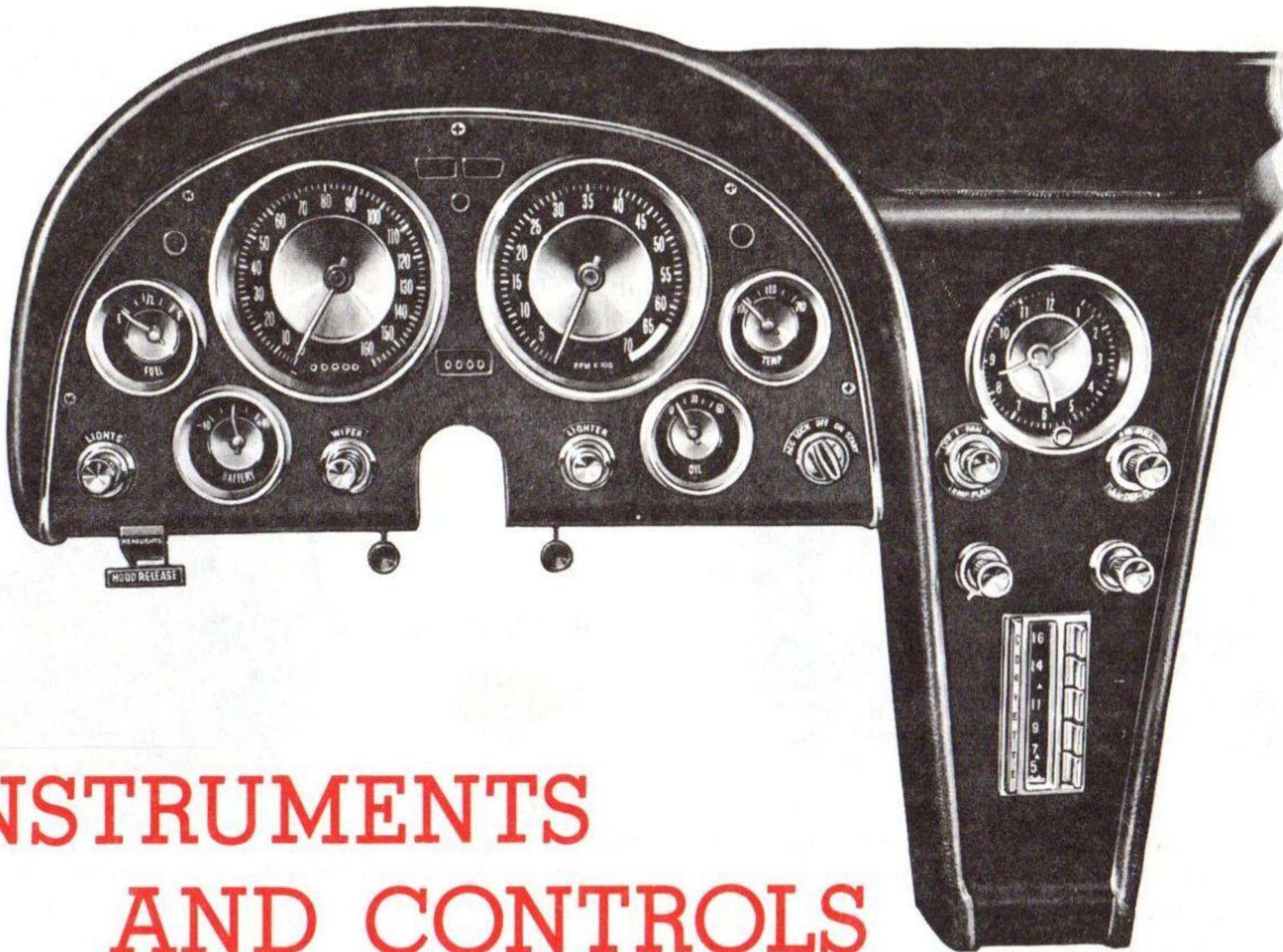
POWERGLIDE TRANSMISSION — Release parking brake and place selector lever in "N." **DO NOT TOW IN EXCESS OF 30 MPH.** If the transmission is inoperative, or not operating properly, the propeller shaft must be disconnected or car must be towed with rear wheels off the ground.

TOWING WITH REAR WHEELS RAISED — When a vehicle is being towed on its front wheels, the steering wheel should be secured to maintain a straight forward position.

USE OF TIRE CHAINS AND SNOW TIRES



Do not use tire chains on the rear wheels of your Corvette. Clearance between tire and wheelhouse is insufficient to permit operation with chains installed. Many tire manufacturers market tires for the Corvette which have specialized tread designs for mud and snow use.



INSTRUMENTS AND CONTROLS



TACHOMETER

The tachometer indicates the speed of the engine in revolutions per minute. Two different tachometers are used in the Corvette, depending upon the engine option installed in the vehicle.

Corvette 250 hp and 300 hp engines are equipped with a tachometer which has an orange zone from 5000 to 5300 rpm (indicating valve float area), and a red zone from 5300 to 5500 (indicating maximum permitted rpm).

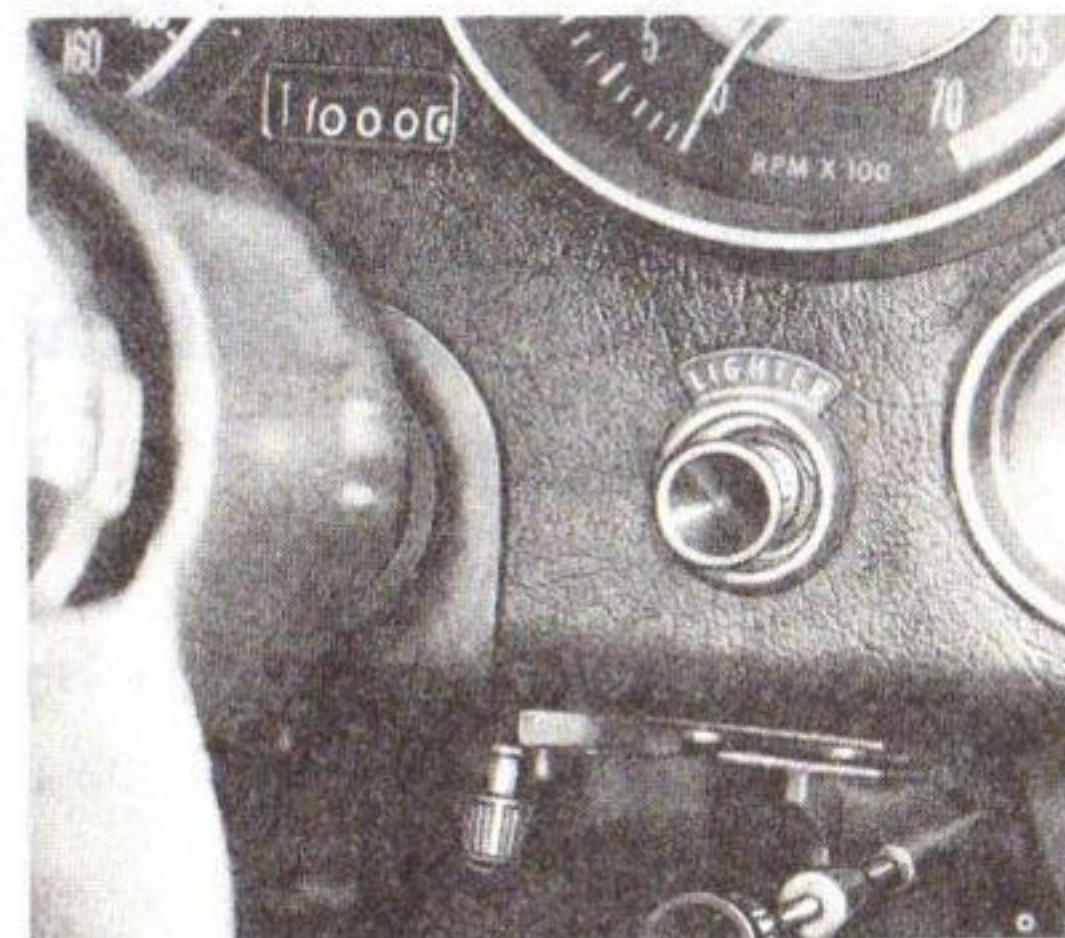
The tachometer supplied with the Corvette 340 hp and 360 hp engines has an orange zone at 6300 to 6500. Don't permit the pointer to enter the red zone beyond 6500 rpm.

SPEEDOMETER AND ODOMETER



The speedometer, indicating the forward speed of your Corvette in miles per hour, is calibrated to a maximum of 160. The odometer registers total accumulated vehicle mileage and is useful in keeping track of lubrication and maintenance intervals.

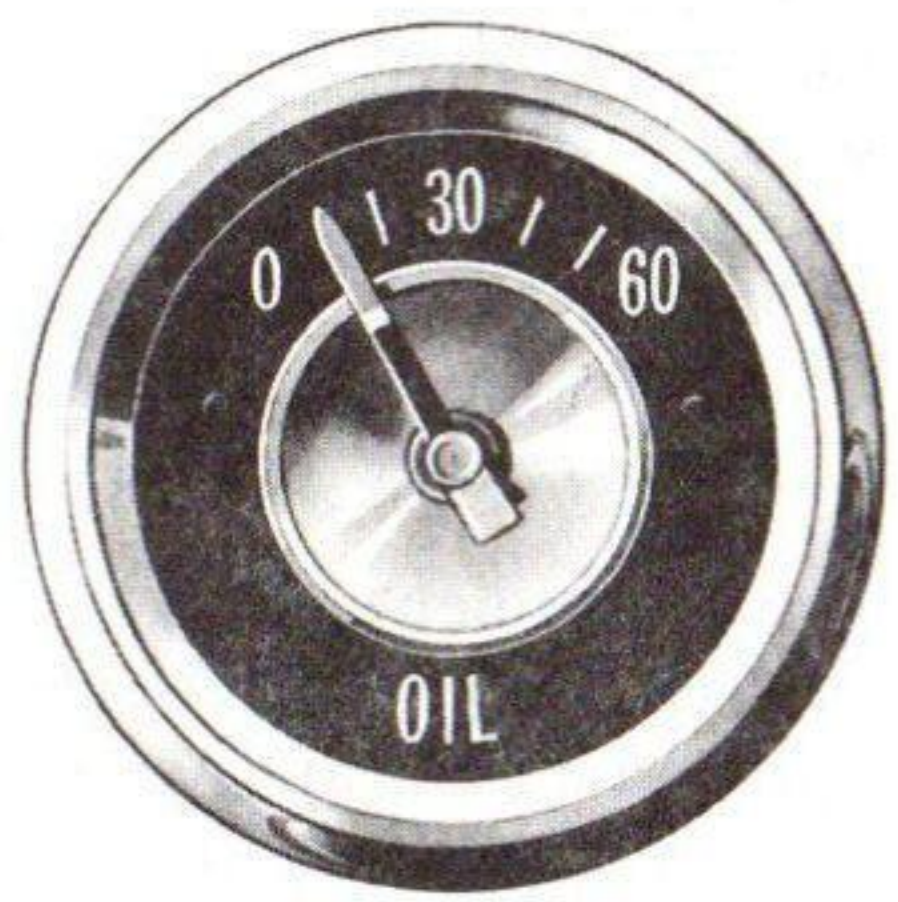
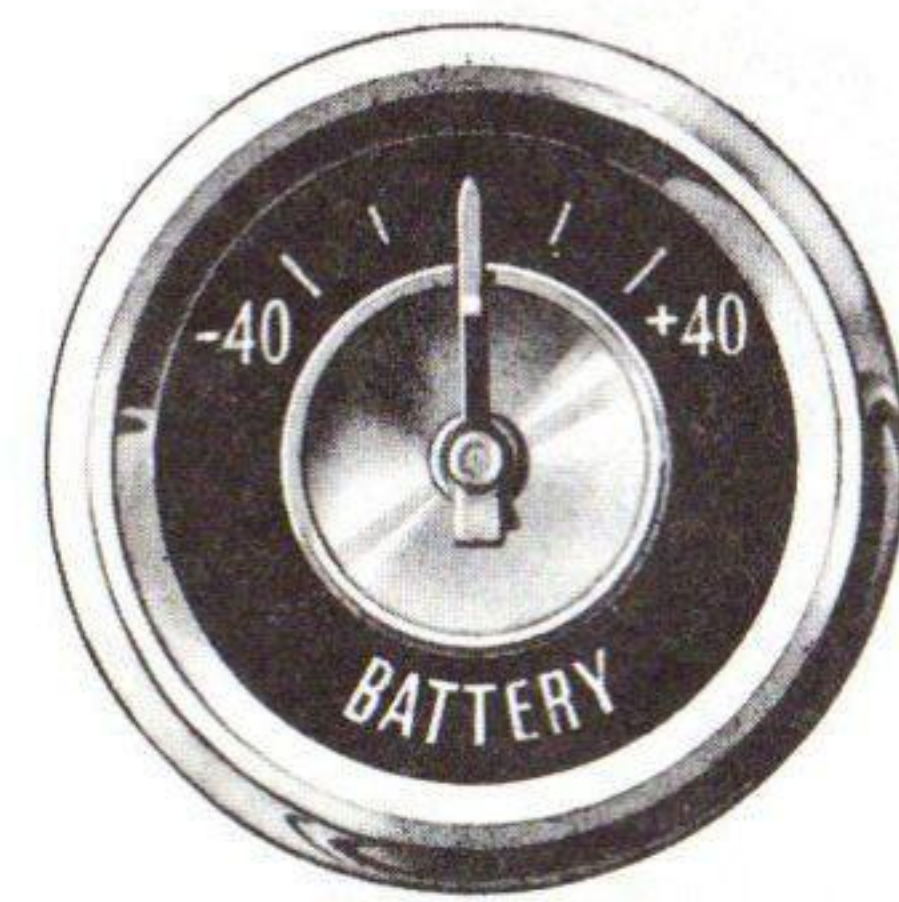
TRIP ODOMETER



The trip odometer may be reset to zero by means of the knurled knob extending beneath the instrument cluster to the right of the steering column. This instrument may be used to record trip mileages as well as during sports car rallies.

The ammeter shows the rate at which the battery is being charged or discharged. The Delcotron charging system is equipped with a regulator which controls the charge according to battery requirements. When the Delcotron generator is supplying more than the current demand, the ammeter will show the charging rate while a discharge will be shown if the current demand is more than the Delcotron output. With the battery fully charged, the charging rate will be low, thus giving an indication of battery condition.

AMMETER

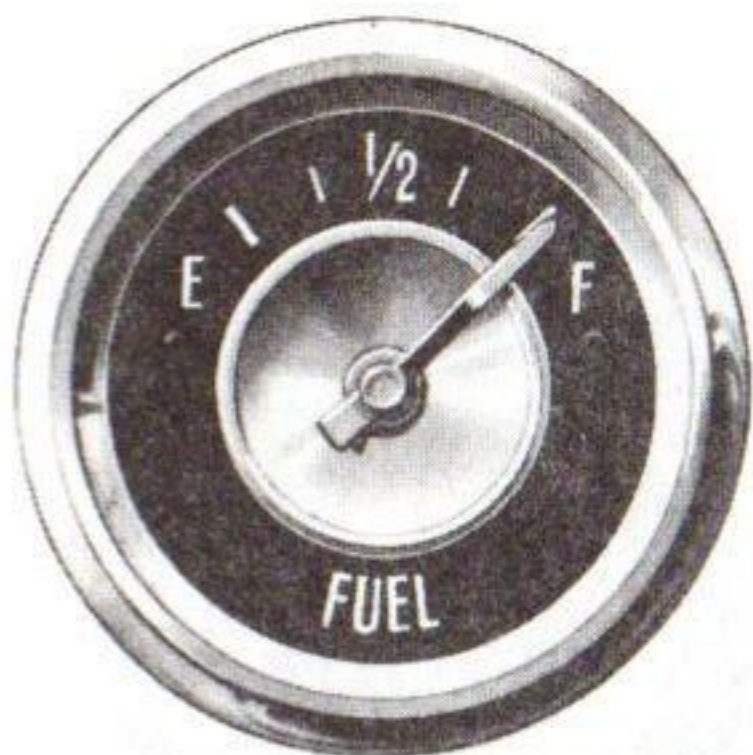


**OIL PRESSURE
GAUGE**



The oil pressure gauge indicates the pressure at which oil is being delivered to the various parts of the engine requiring lubrication. Pressures registered by the

gauge may vary according to outside air temperatures or weight of oil being used. Oil pressure of a cold engine being operated at a given speed will be somewhat higher than when the engine is at normal operating temperature at the same speed. Prolonged high speed operation on a hot day at the given speed will result in somewhat lower oil pressure readings. Readings of 30 to 40 psi may be considered normal during moderate road speeds of 35 to 40 mph with the engine at proper operating temperature. Gauge readings which are consistently high or low under these conditions may indicate lubrication system and/or engine malfunctions.



**FUEL
GAUGE**



The electrically operated fuel gauge will indicate the amount of fuel in the tank when the ignition switch is turned on. When the ignition switch is turned off, the needle will not necessarily return to the empty mark.

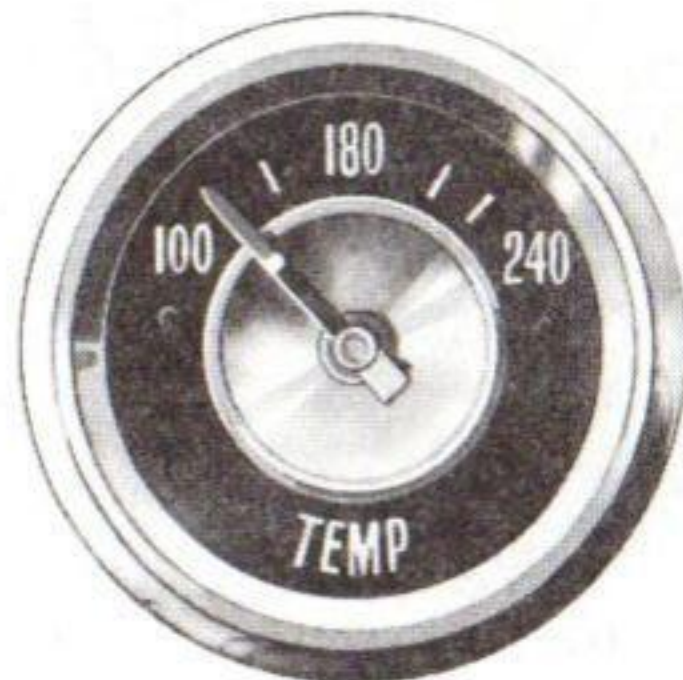


CLOCK



Resetting the clock provides automatic regulation providing there is an error, either fast or slow, of at least 3 minutes. No regulation will be introduced if the clock is reset for an error of less than 3 minutes. When resetting, pull out the small knob and turn in the direction in which you wish to set the hands—clockwise if the clock is slow, counterclockwise if the clock is fast. Do not move the hands past the correct time. Your clock should be cleaned and oiled periodically, normally every two years.

**TEMPERATURE
GAUGE**

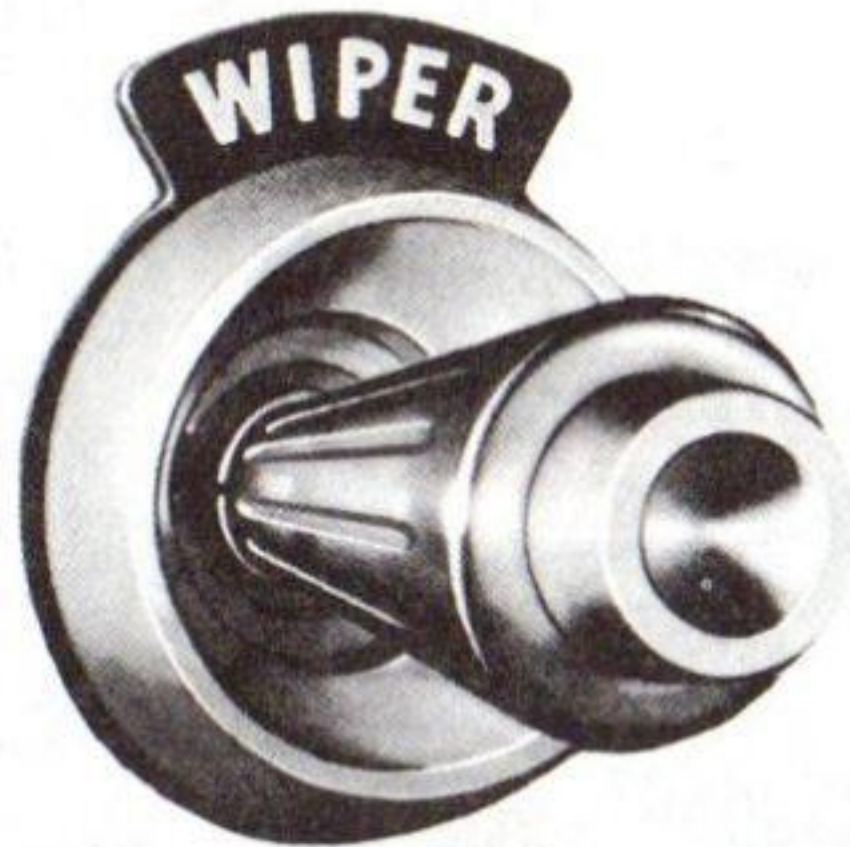


Showing engine coolant temperature, gauge readings will vary with air temperature and operating conditions. Hard driving or prolonged idling in very hot weather may produce above normal readings. The ignition switch must be on for accurate readings.

**COURTESY
LIGHTS**

The courtesy lights beneath the outer ends of the dash panel, as well as the Sport Coupe dome light and the Convertible rear compartment light, will come on when either door is opened. They may also be lighted by turning the headlight switch fully counterclockwise past the slight resistance.

WINDSHIELD WIPER AND WASHER



The electric windshield wipers may be operated anytime the ignition switch is "on" by turning the windshield wiper knob clockwise; to the first detent for slow speed and all the way for high speed operation. The button located in the center of the wiper control knob operates the windshield washer. Pressing this button will cause a quantity of fluid to be squirted on each side of the windshield and, at the same time, will automatically start the windshield

wipers. The wipers must be turned off manually. Keep the water container, beneath the left front fender, filled at all times. Add G. M. Windshield Washer Solvent (G. M. Part Number 988299) or equivalent to the jar to aid in cutting road film and grease. This solvent is recommended for use at all times except when the temperature falls below freezing. During periods when temperatures of freezing or below can be expected, use G. M. Windshield Washer Anti-Freeze (G. M. Part Number 985087) or equivalent in the washer jar and prewarm the windshield with the heater defrosters before using the washer. Fill the washer jar only $\frac{3}{4}$ full in winter to allow for expansion if the temperature should fall low enough to freeze the solution.



CIGARETTE LIGHTER

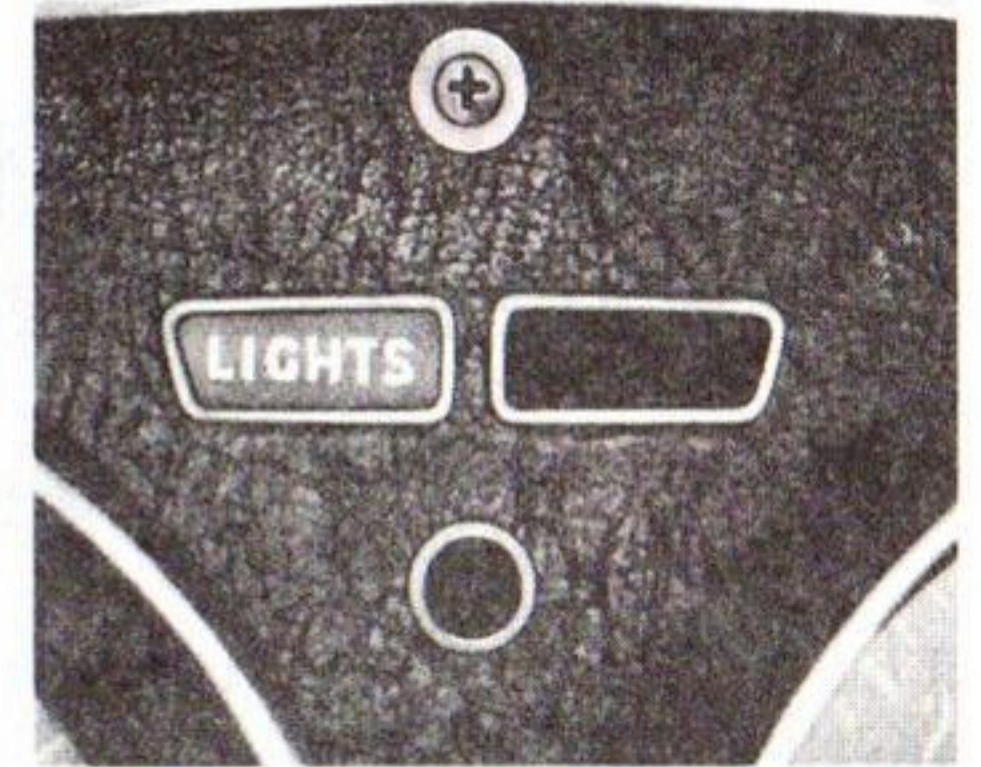
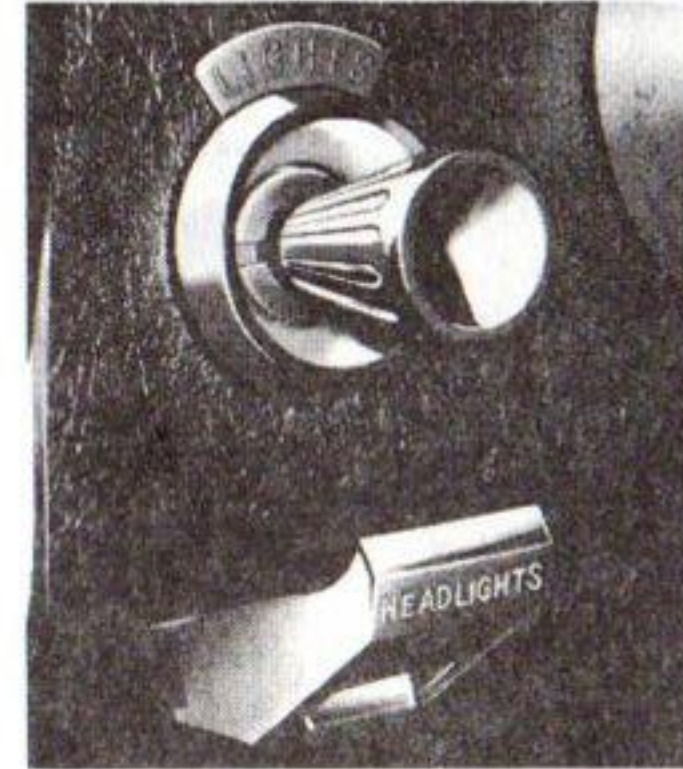


The lighter, located on the instrument panel so as to be accessible to both driver and passenger, should be pushed "in" to operate. After it has become heated and ready for use, it will snap out.

The retractable dual headlights contribute much to the long, low appearance of your Corvette and also serve to protect the headlights when not in use. Two switches are necessary for headlight operation.

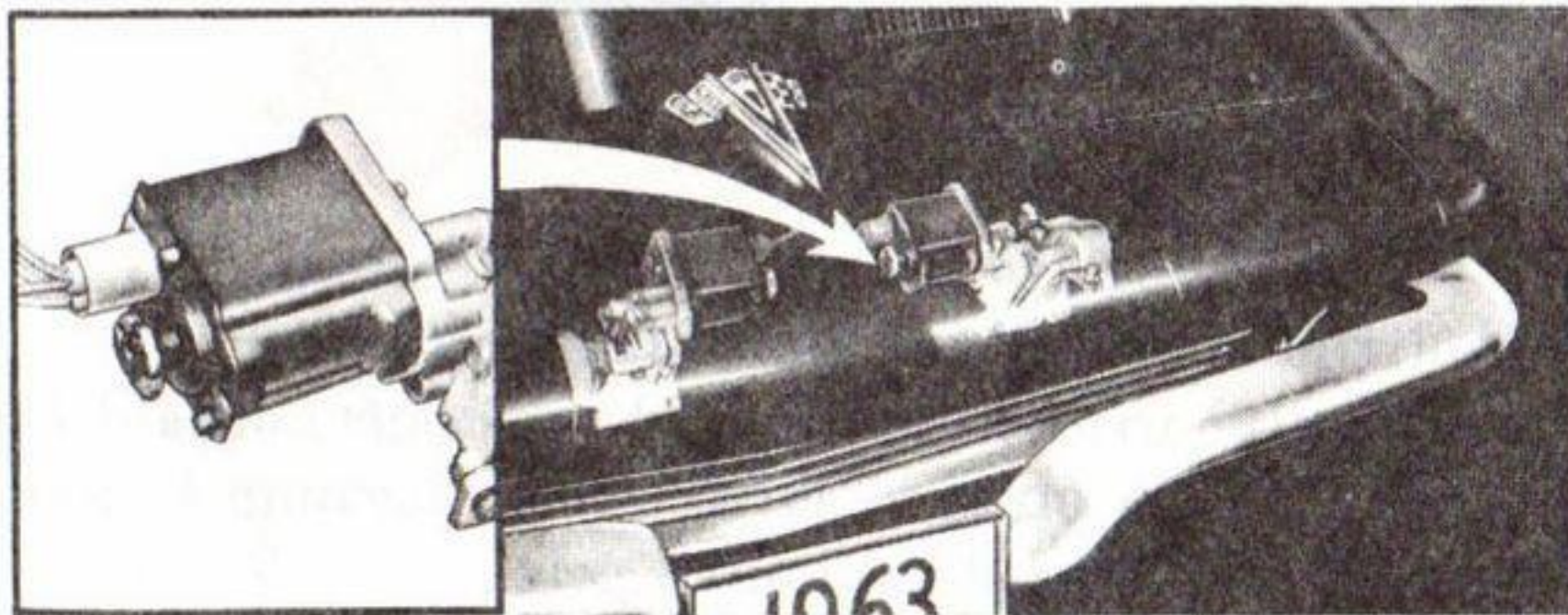
- Pull the *light switch knob* out to its first stop to operate the parking lights, tail lights and instrument panel lights, fully "out" to substitute headlights for parking lights. Regulate the intensity of the instrument panel lights by rotating the knob; turn fully counterclockwise past the "detent" position to turn on the interior lights.
- Move the *headlight motor switch* toward you to rotate the headlamp assemblies into the open position. The headlamps may be left in the open position even with the lights turned off. To close the assemblies move the switch away from you.

LIGHT SWITCH AND HEADLIGHT MOTOR SWITCH



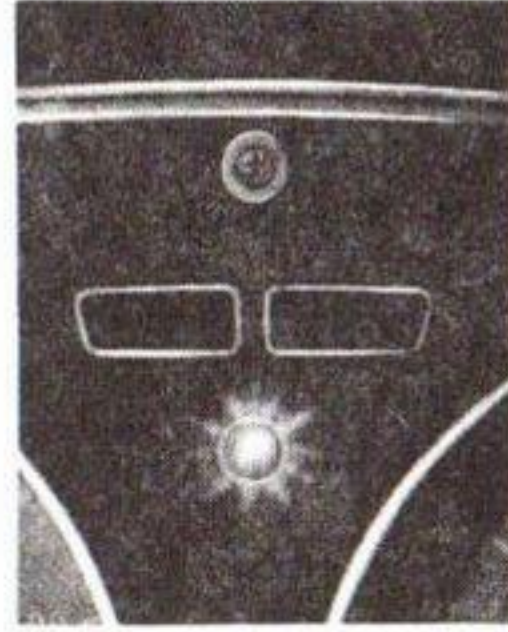
- A flashing red "LIGHTS" indicator on the instrument panel, gives warning whenever the headlights are turned on but not fully opened.

OPERATING HEADLIGHTS MANUALLY



Each headlamp assembly may be opened manually, if necessary, as follows:

- Raise the hood and, reaching under the body panel, turn the wheel disc on the headlamp door motor in the direction you wish the door to move. Continue until the door is fully open or closed.
- See your Chevrolet Dealer as soon as possible.



HEADLIGHT BEAM SWITCH

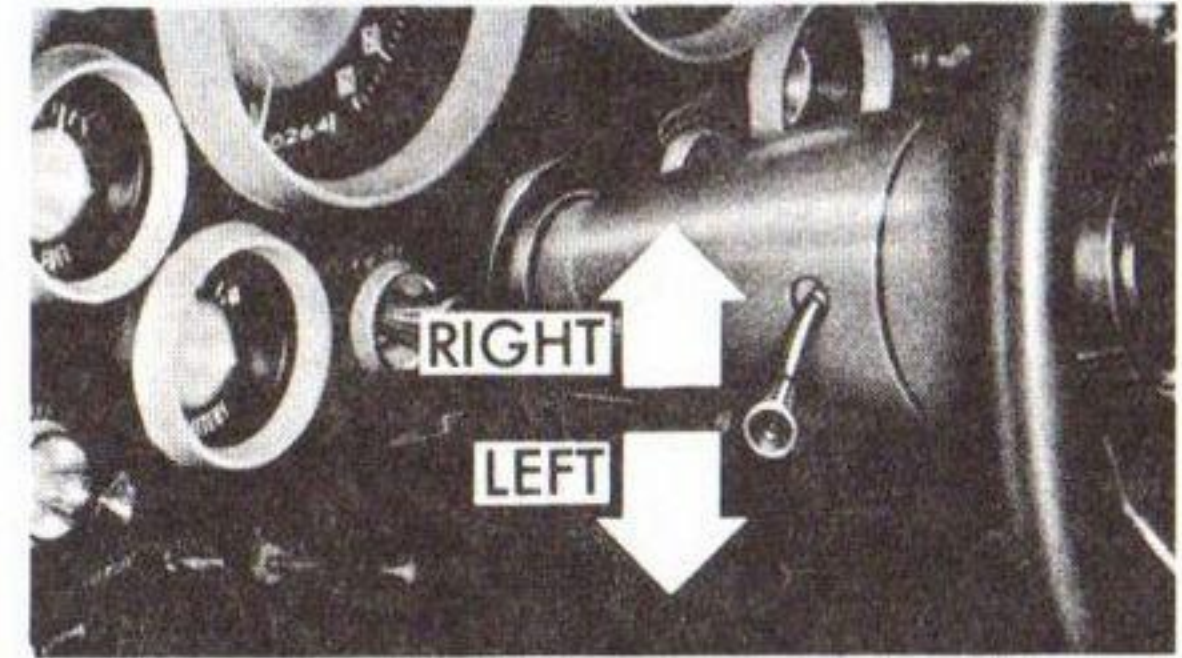


The headlight high beam switch, located at the left side of the toeboard, is used for selection of either high or low headlight beams. The red high beam indicator light in the instrument panel will remind you when the "brights" are being used. Remember to "dim" the lights when approaching oncoming traffic and when overtaking other vehicles.

Move the lever on the steering column up or down to indicate a right or a left turn. The amber front parking light, the red stop lights and the proper green indicator light in the instrument cluster will flash to indicate the direction of the turn. The lever will normally return to neutral; but in the event of a wide turn this may not happen and you may need to turn off the signal manually.



TURN SIGNAL



LIGHTING SYSTEM TROUBLE CHECKS

- Headlamps which flicker on and off rapidly indicate an overload condition which should be corrected immediately by your Authorized Chevrolet Dealer.
- If, when signaling a turn, the indicator light comes on but does not flash in one direction, check for a burned out front turn signal bulb or stoplamp bulb on that side.
- If the indicator lights come on and stay on when signaling a turn in either direction and no clicking is heard, replace the flasher. A three-bulb flasher must be used.
- If the flasher clicks but the dash indicator light does not operate, replace the indicator bulb.



HOOD RELEASE



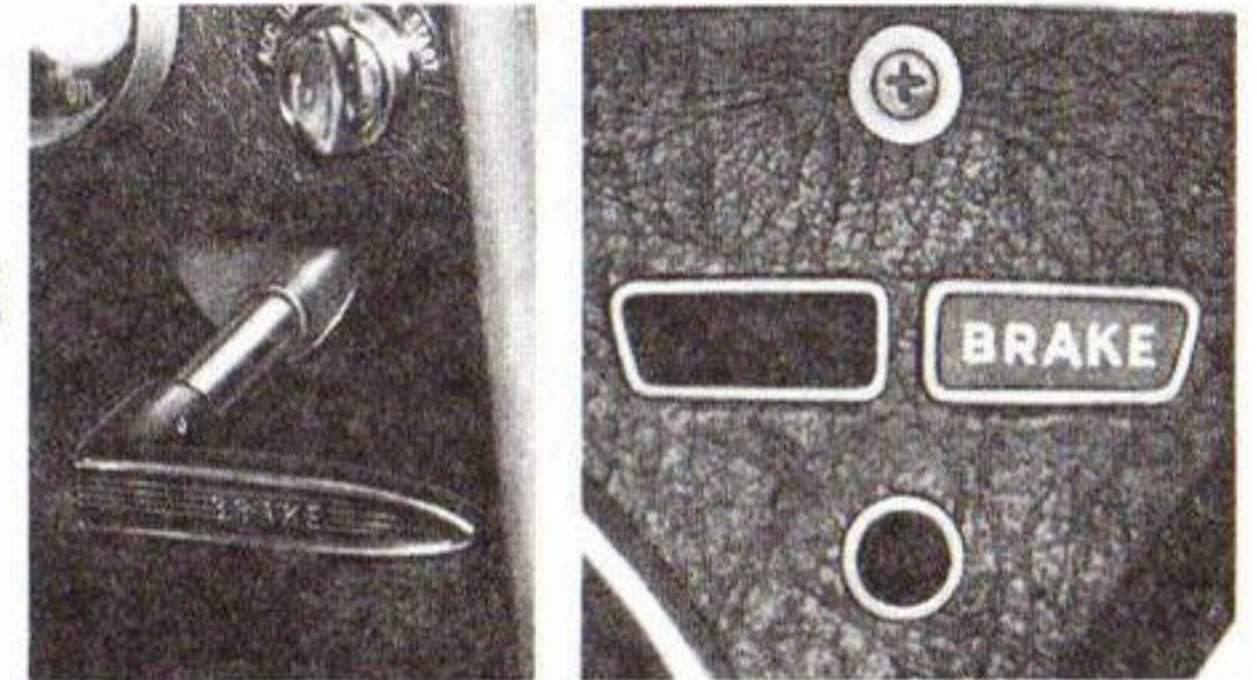
The hood release handle must be pulled out to release the hood lock. The hood may then be raised manually until it locks in the open position. Before closing, lift up on the hood panel to unlock the support mechanism, then lower and close firmly.

Your Corvette is equipped with self adjusting brakes. The automatic adjustment occurs, when needed, during reverse stops.

To apply the parking brakes, pull straight out on the cane-shaped handle. To release, turn the handle slightly and push in. The red "BRAKE" warning light in the instrument cluster will remain on when the brake is applied and the ignition key is on.



BRAKES



STEERING AND CLUTCH ADJUSTMENTS



Your Chevrolet Dealer can perform the following adjustments for you.

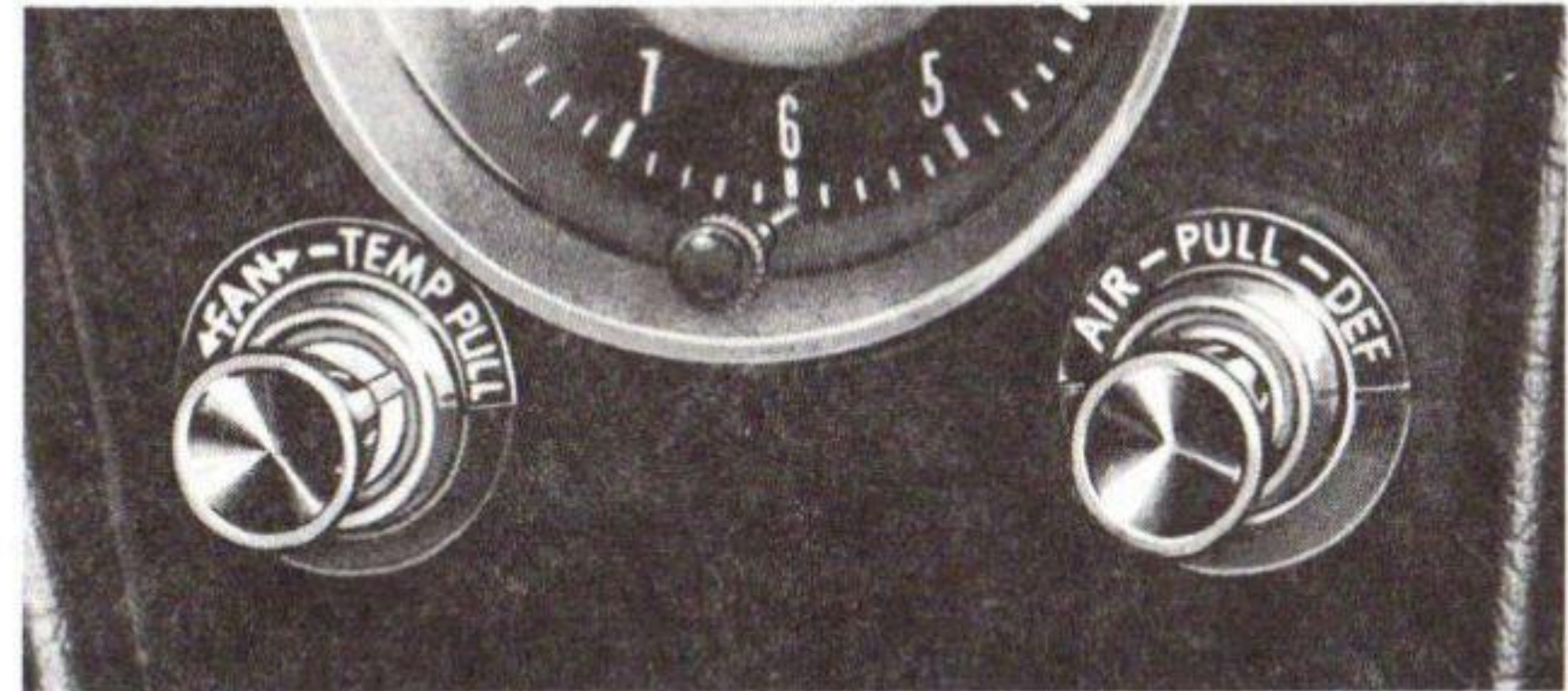
- An adjustment is provided which allows the steering wheel to be moved forward or rearward as desired.
- A steering linkage adjustment will permit much "faster" steering response.
- Normal clutch pedal travel is 6 1/2 inches. A linkage adjustment is provided which will reduce this travel to 4 1/2 inches to permit fast release and more rapid gear shifting.

HEATER AND DEFROSTER

Two knobs allow full control of your Corvette heater:

AIR-DEF— This control supplies outside air to the heater when pulled out to “detent” and diverts the airflow to the defroster duct when pulled fully “out.” This knob must be pulled out to “detent” before turning on the blower.

FAN-TEMP— Heater output air temperature is regulated as this knob is pulled out, with full “out” position resulting in maximum heat. Rotate the knob to operate the three-speed blower.



It is best to wait until the engine warms up before operating your heater unless cold defroster air is required to keep windshield clear. Remove all snow from hood and cowl surfaces before operating vehicle.

VENTILATION DURING WARM WEATHER



Air vents in each side panel, controlled by means of the vent knobs on either side of the steering column, will admit outside air from the vent grille just ahead of the windshield. Additional warm weather ventilation is available through the heater outlet by pulling the AIR-DEF knob out to “detent” and, if desired, turning on the blower. Don’t pull out the TEMP knob.

The optional Corvette fully transistorized signal-seeking radio features three sets of tuning controls for manual, push-button and automatic signal-seeking operation.

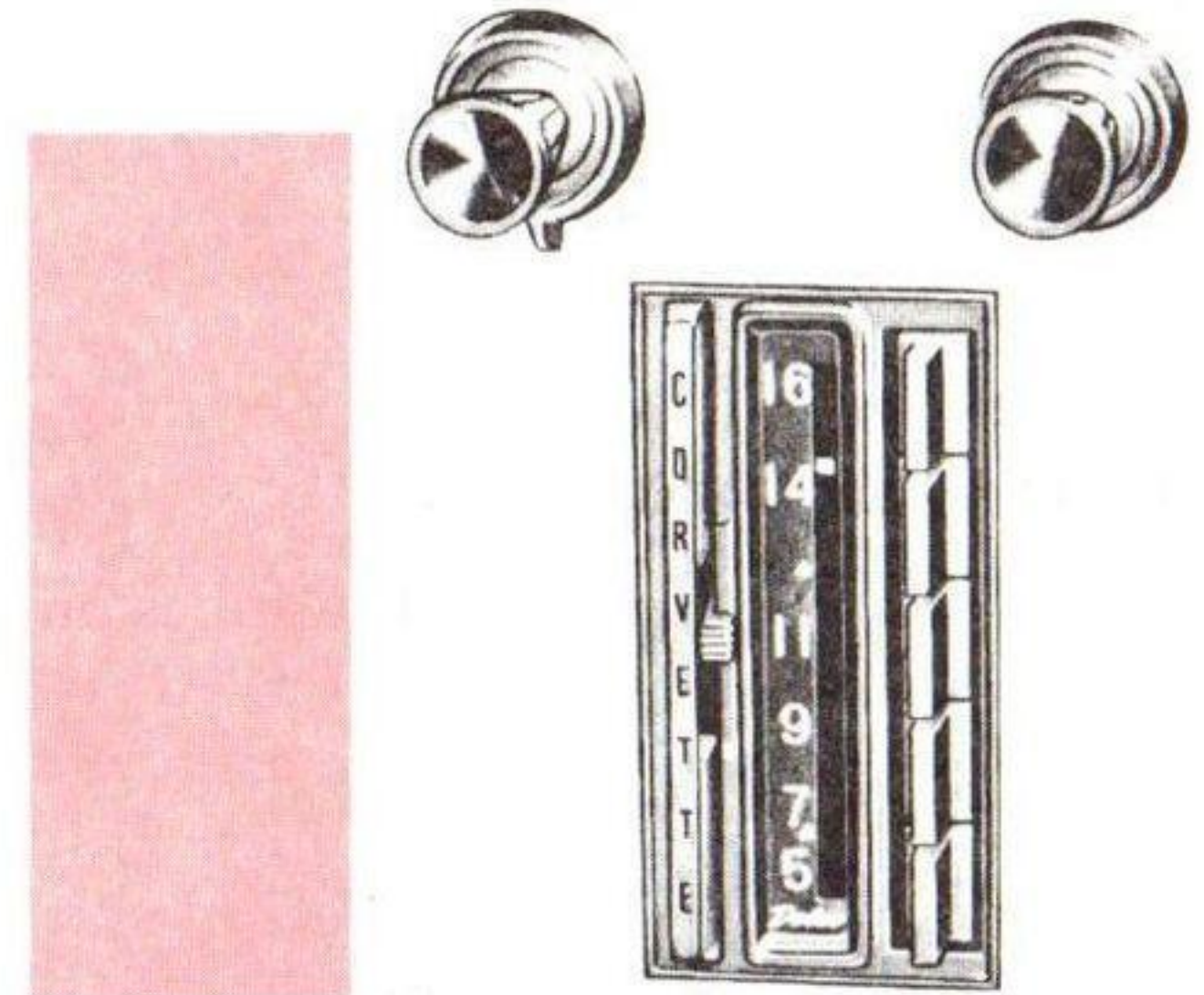
The left hand control knob serves as the "on-off" switch and volume control. Turn the wing knob at the base of this control to adjust for tone quality.

Automatic Tuning — The automatic tuning bar to the left of the radio dial will, when pressed, reject the station to which you are tuned and cause the dial to move to the next station within the predetermined sensitivity range. Push the three position tab beside the automatic tuning bar fully "down" to limit automatic selection to the strongest available stations for clearest, most interference-free reception. With the tab fully "up" the automatic tuning bar will be able to tune in all listenable stations.

You will particularly enjoy the automatic tuning feature of your Corvette radio in areas where you are unfamiliar with local station frequencies.

Push-Button Tuning — Push-buttons to the right of the radio dial allow selection of preset local stations. To preset these push-buttons: Warm up the radio for several minutes, pull the push-button straight out as far as it will go, tune in the desired station man-

SIGNAL SEEKING RADIO



ually, and then push the button all the way in. Set each push-button in the same manner.

Manual Tuning— Tune the radio manually by means of the right hand control knob.

Conelrad — Notice the two triangular markings at 640 and 1240 on the radio dial which indicate Office of Civilian Defense frequencies. In case of a national emergency, commercial radio stations will close down and information vital to your safety will be broadcast on these two frequencies only.

Antenna — For local reception the antenna may be retracted. However, for best long distance reception it should be extended to its full length.

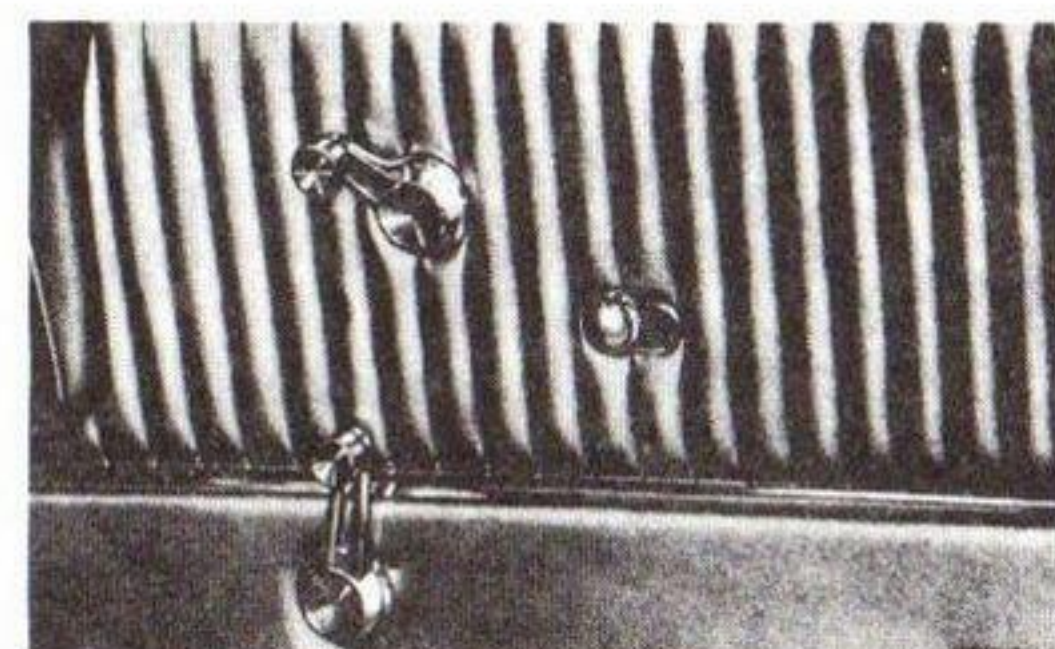
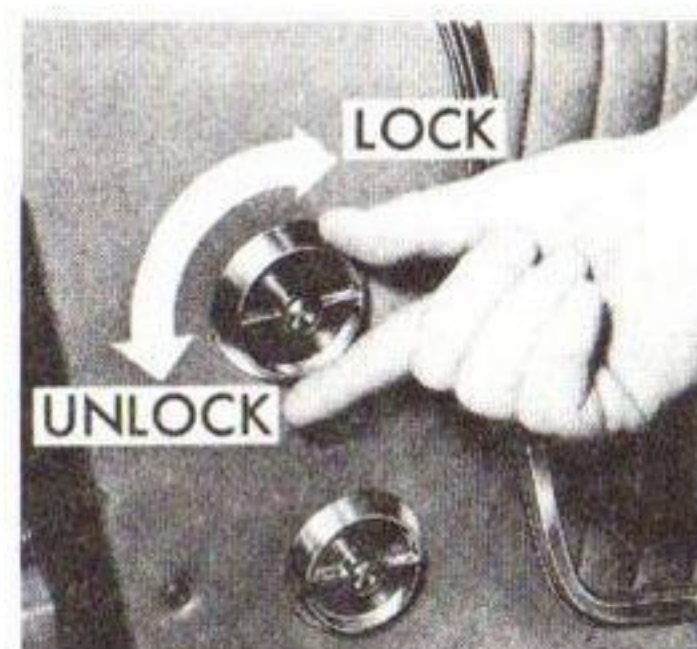
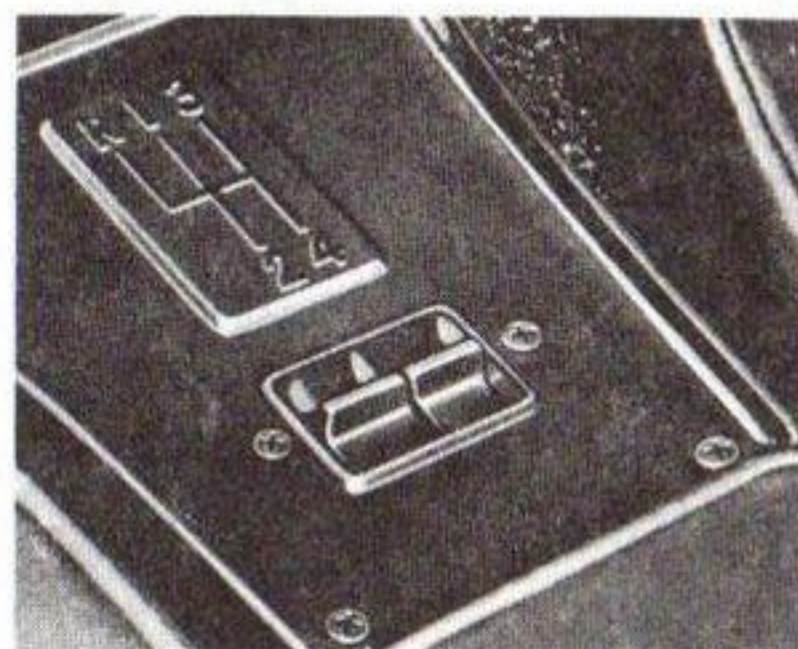


SEAT ADJUSTMENT



Both driver and passenger have a seat adjuster control handle located at the right front corner of the seat. Turn this handle clockwise to free the seat. After adjusting the seat to your personal requirements, release the handle to lock seat into place. Additional adjustments to tailor the seat location to your personal requirements can be performed by your Chevrolet Dealer.

DOORS AND LOCKS



Both doors of your Corvette may be locked and unlocked from the outside by means of the ignition key. Record the serial number located on the "knock-out" plug in your key, then destroy the plug. Using this number, your Authorized Chevrolet Dealers and most reputable key makers can quickly make you a new key.

Lock and unlock the doors from inside your Corvette by turning the upper reflector clockwise to lock and counterclockwise to unlock. (This reflector, together

with its companion below, also acts to warn oncoming traffic when your door is opened.)

Open the doors from outside by means of the push button type door handles and from inside by pulling rearward on the ball type handle.

Crank type handles allow the side windows to be rolled up or down and the vent windows to be opened. Operating switches for the optional power windows are located at the rear of the floor tunnel trim plate.

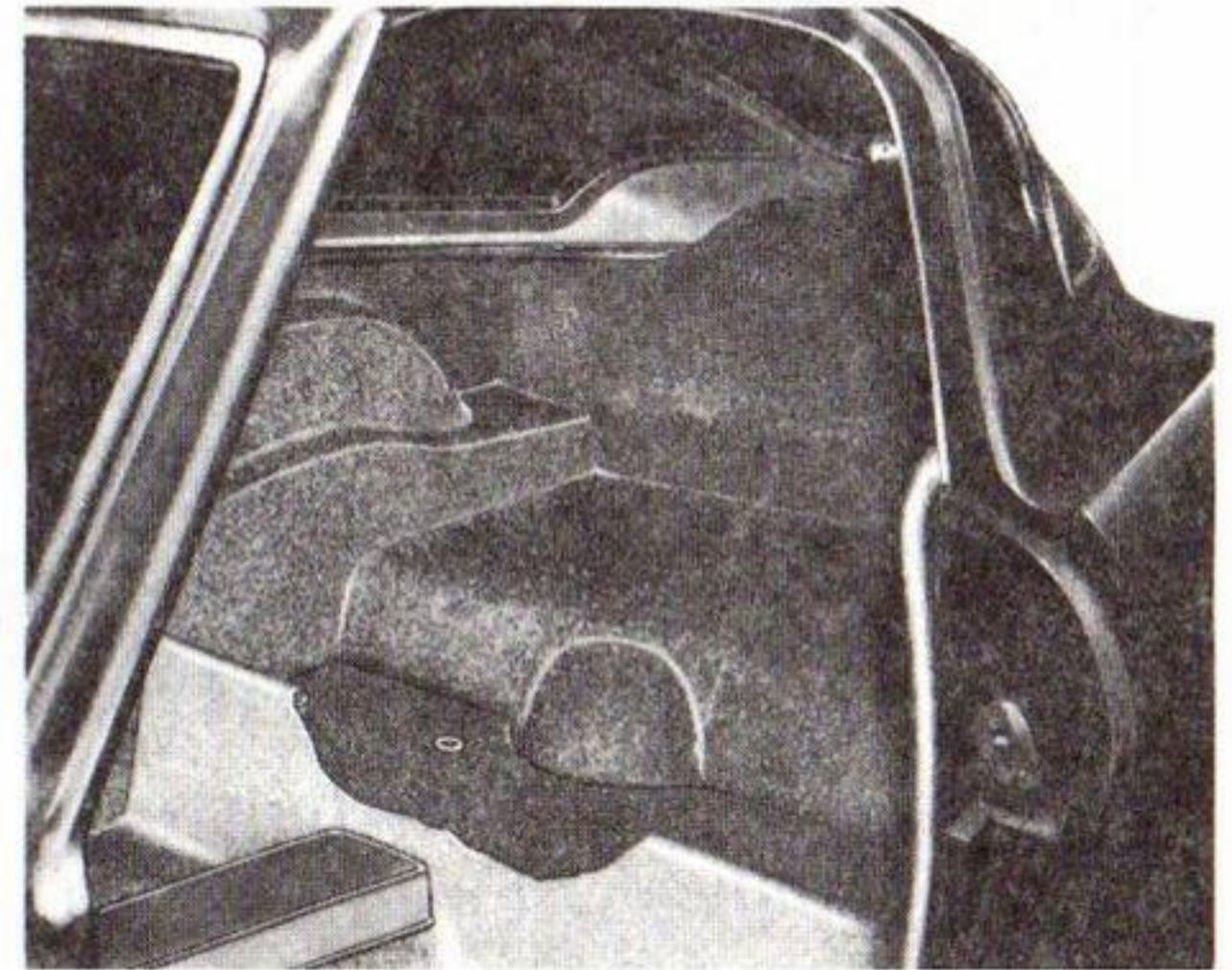
GLOVE BOX



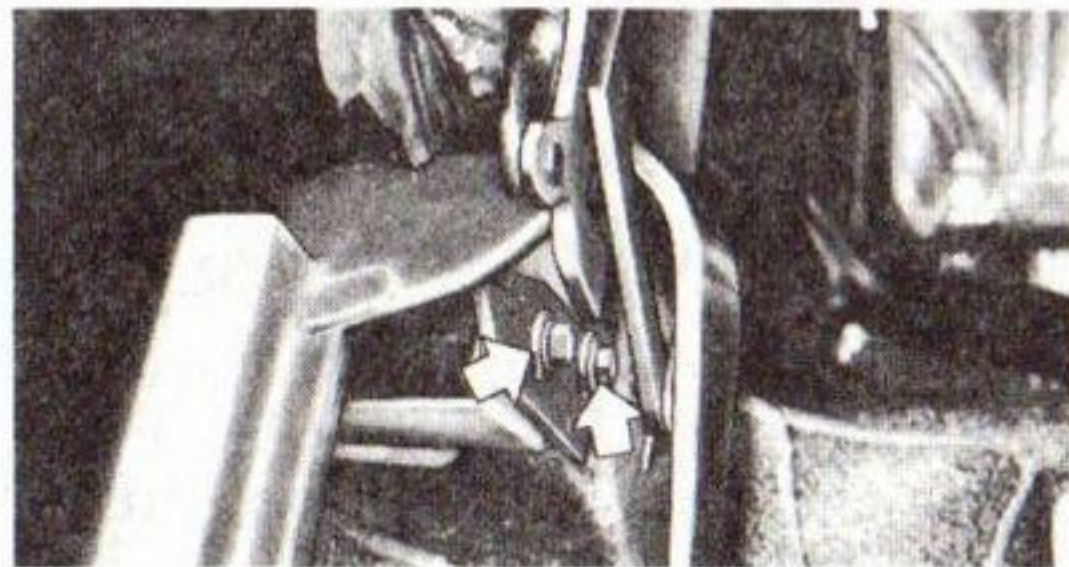
Lock and unlock the glove box door with the ignition key. Press and release button to open the door. When open, the door provides a convenient table for cups or glasses. A cutout portion in the glove box hood forms a convenient assist handle.

REAR COMPARTMENT

Tilt the seatbacks forward to reach the ample luggage space. In the convertible style Corvette the folding top is also carried in this area, but it may be completely and easily removed if desired. In addition, a removable cover on the floor of the luggage compartment provides hidden stowage for small articles, tools, and the auto jack and handle.

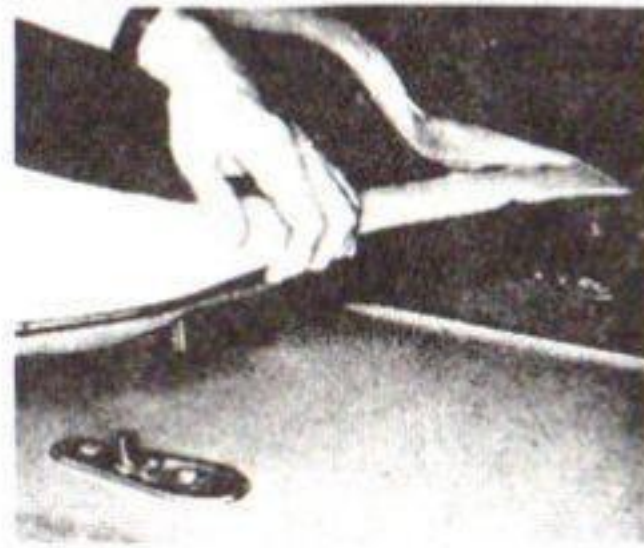
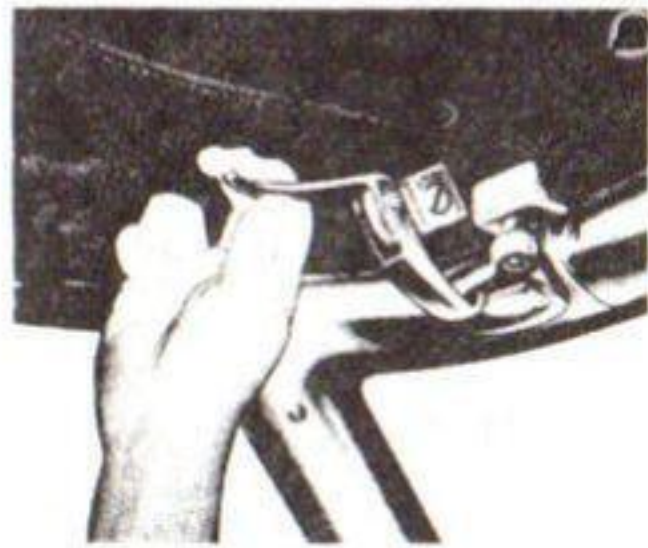


REMOVAL OF THE FOLDING TOP



- Use a pencil to outline the folding top mounting plates so that they may be reinstalled in exactly the same location. Then remove the two mounting bolts from each side shown in the illustration to the left.
- Carefully remove the folding top from the car.
- Use the penciled outlines to locate the mounting plates in exactly the same position when replacing the top.

Operation of the Corvette Tops



- The rear compartment lid unlocking handle is located beneath the center of the lid. Pull it toward you to unlock and raise the lid.
- Swing the folding top out. Hook and securely latch the front latches to the windshield header. Then close the compartment lid.
- Press the rear bow guide pins into the compartment lid lock assembly as required to seal the rear bow to the compartment lid.
- To lower the top: unlock the header latches and disengage guide pins from the windshield striker. Release the rear bow by means of the retainer release levers and fold it forward. Open the rear compartment lid, and fold the top into the rear compartment and close the lid.

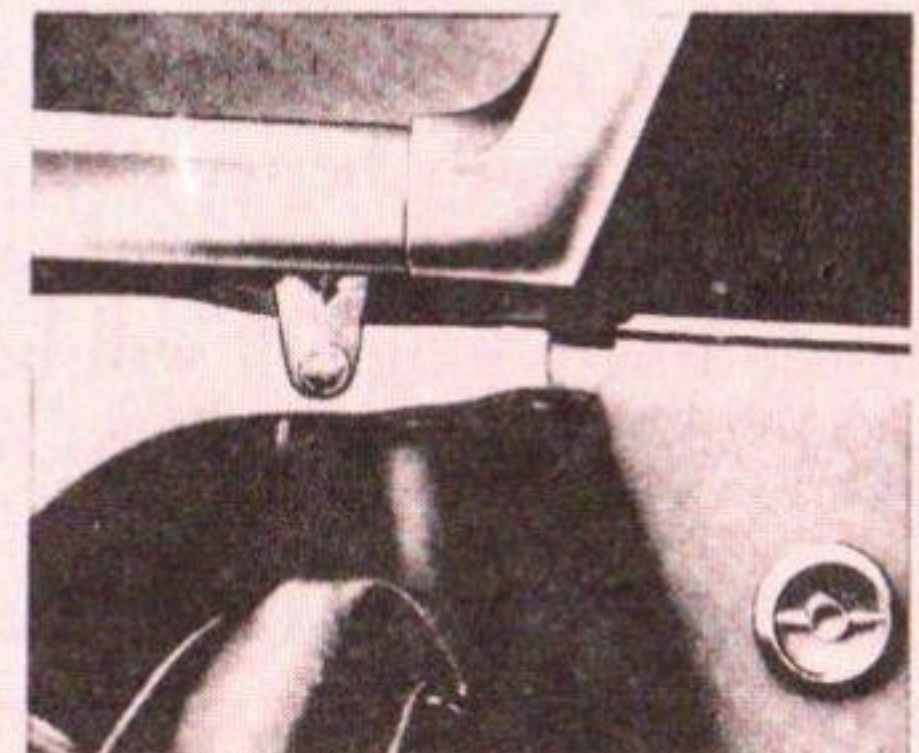
FOLDING TOP

HARD TOP

The optional hard top may be quickly and easily installed:

- Lower the folding top and close the compartment lid.
- Carefully set the hard top into position on the body.
- Install the two mounting tab attaching bolts and the two rear bow to compartment lid nuts.
- Fasten the latches at the header.

When not in use, store the top, covered, in a clean dry place.



Driving Tips

ROUGH ROADS—Avoid accelerating when crossing rough spots or chuck holes in the pavement, railroad tracks, etc. Decelerate slightly and allow the car to “float” over such hazards.

CORNERING — Always “drive” around a corner. When approaching a curve, reduce your speed slightly. As you enter the turn, begin to accelerate so that you come out of the turn at or near original speed. Powering the car wheels while rounding a turn effectively reduces the natural side sway tendency of any vehicle, resulting in more complete control and comfort.

USE OF THE BRAKES—Apply the brakes as though you mean business. Strong, intermittent use of the brakes is usually better than a gentle application for long periods. A series of short applications when descending a long hill will be more effective in holding down your speed than constant light pressure.

DOWNSHIFTING—If your car is equipped with a manual transmission, you will undoubtedly wish at

some time to downshift from one gear to the one immediately lower in ratio. To avoid dangerously overspeeding the engine while downshifting:

1. **Watch the Tachometer**—If your tach is orange-zoned at 5300 rpm, you may downshift to the *next lower gear* when it indicates 4000 to 4100 rpm. If your tach is orange-zoned at 6300 rpm, you may downshift to the *next lower gear* at 4700 to 4900 rpm.
2. Double-clutching reduces strain on engines and transmissions during the strenuous demands of competition. The accepted method of double-clutching is:

Let up on the throttle, disengage the clutch, shift into neutral, and engage the clutch. Almost simultaneously, speed up the engine, disengage the clutch, shift into the next lower gear and re-engage the clutch while depressing the throttle. With practice, this procedure becomes almost second nature.

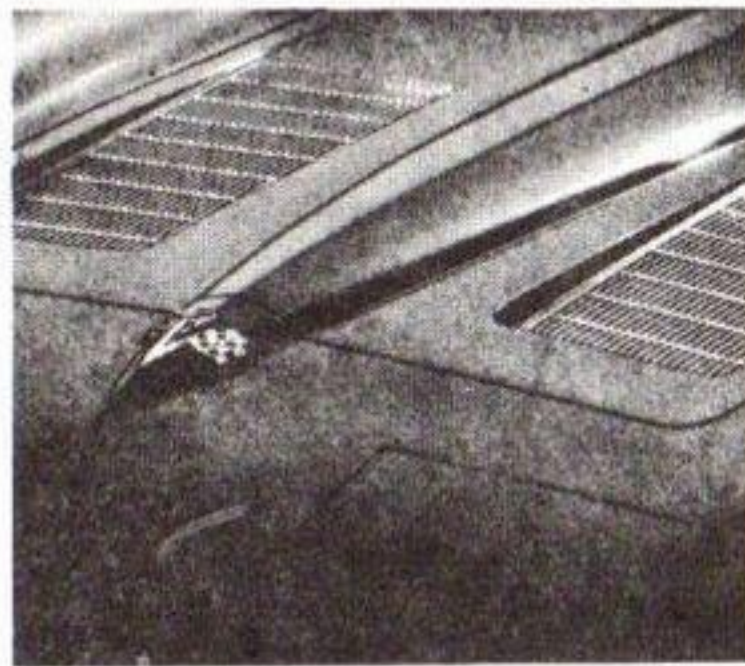
MAINTENANCE AND LUBRICATION

Your Corvette is capable of providing you with many years of enjoyable, dependable service. However, much of its future beauty and performance capabilities rest with you as its owner. The following pages will guide you in properly caring for the beauty and mechanical maintenance needs of your Corvette. Remember, no one knows the Corvette as well as your Chevrolet Dealer. Regular visits to him will keep your car looking and running its best.

Washing Your Corvette

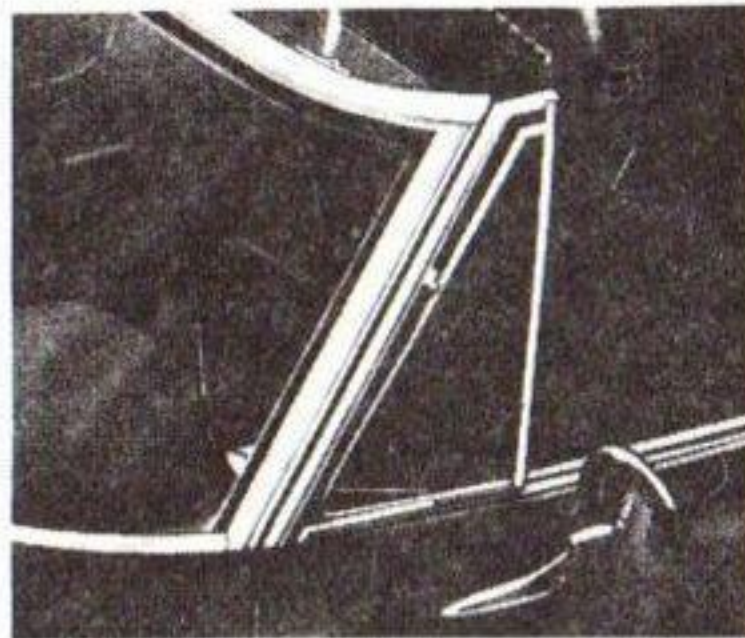
“Magic Mirror” acrylic lacquer provides your Corvette with a finish of maximum beauty which is unsurpassed in depth of color, gloss retention and durability. The best way to preserve this finish is to keep it clean. Frequent washing is normally the only requirement to maintain maximum beauty. Wash the car with cold or lukewarm water only and

never in the direct rays of the sun or when the painted surfaces are hot. Never use strong soap or chemical detergents. Any cleaning agent should be flushed from the surface promptly and not allowed to dry. Avoid wiping dirt from dry painted surfaces because this may scratch the surface.



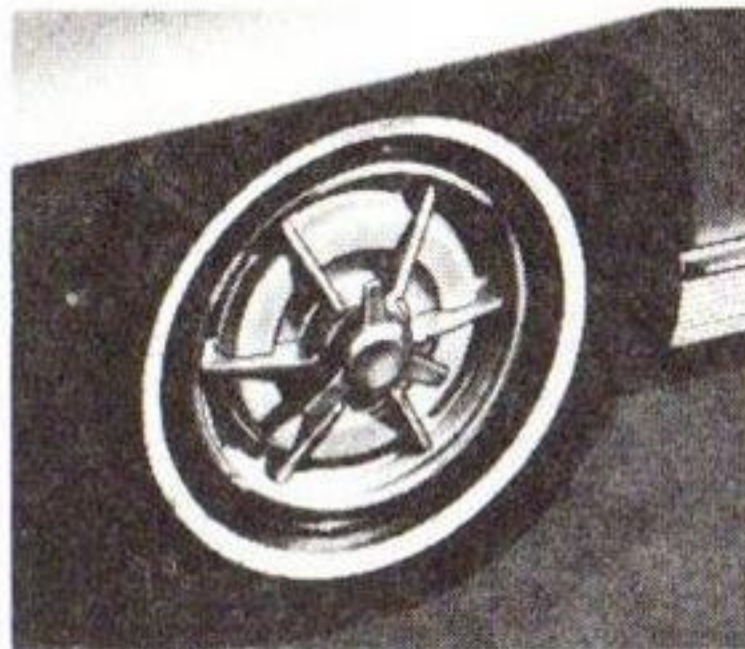
POLISHING AND WAXING

Even though the acrylic finish of your Corvette is more durable than conventional finishes, under certain conditions you may wish to polish or wax your car to provide extra protection. Calcium chloride and other salts, road oil and tar, tree sap, chemicals from factory chimneys and other similar foreign matter may cause damage to any known automobile finish if allowed to remain in contact with the paint film for an excessive length of time. Prompt washing may not always thoroughly remove these deposits especially in areas where exposure conditions are more severe. Your Chevrolet Dealer offers many approved polishes, waxes and tar and road oil removers which will provide maximum protection.



EXTERIOR BRIGHT METAL PARTS

It is recommended that after being thoroughly cleaned with warm water, bright metal parts be given a coating of wax and rubbed to a high polish. This should be repeated as often as necessary. Never scour bright metal parts.

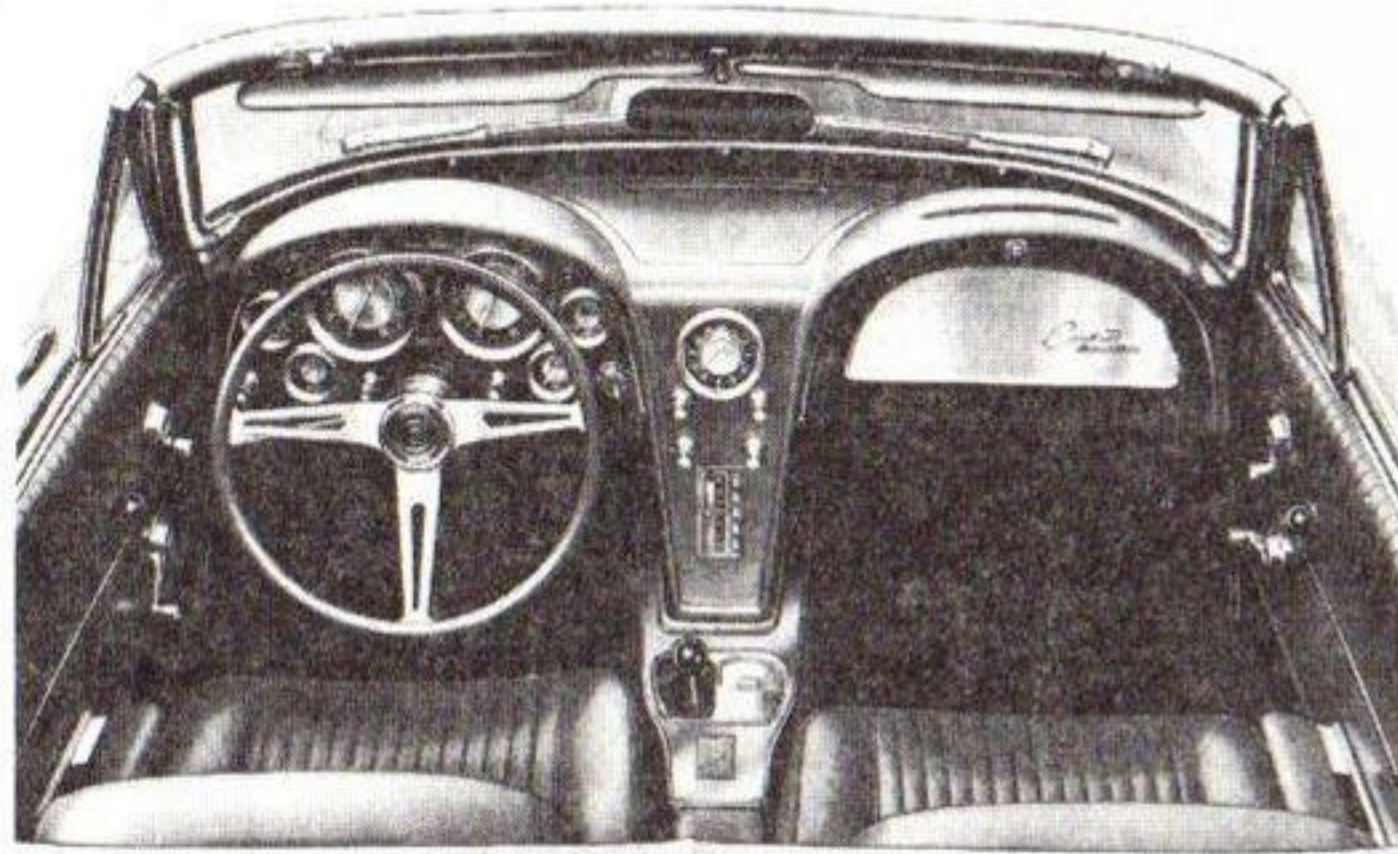


WHITEWALL TIRES

Soap, warm water and a stiff brush will remove normal road dirt from white sidewall tires. Severe curb scrapes may be removed with a fine grade of steel wool. Cleaners such as G.M. Whitewall Tire Cleaner are recommended to make the job easier. Make sure that the cleaner used will not harm aluminum trim. Don't use gasoline, kerosene or similar oil products which might discolor tires.

NOTE: When purchasing any polish, cleaner or tar and road oil remover for use on your Corvette, make sure that the instructions specifically state that the contents can be used safely on acrylic finishes.

Cleaning the Inside of Your Corvette



Keep the interior of your Corvette in top shape by cleaning it at regular frequent intervals. Dirt or stains which are allowed to remain may become ground in or set so that they are nearly impossible to remove.

Loose dust and dirt on seats, trim and floor can be removed with a whisk broom or vacuum cleaner. A damp cloth may be used to wipe up any dirt which cannot be so removed. G.M. Leather Cleaner, available from your Chevrolet Dealer, may also be used.

Care of Your Corvette Top

FOLDING TOP

Wash your Corvette folding top frequently with neutral type soap suds, lukewarm water and a soft bristle brush and rinse with generous quantities of clear water to remove all traces of soap.

If additional cleaning is required, a mild foaming cleanser can be used. Rinse the entire top with water and apply the cleaner to an area of about two square feet. Scrub with a soft bristle brush adding water sparingly until the cleanser foams to a soapy consist-

ency. Remove the foam with a sponge or cloth. Repeat the procedure on the same area and scrub until clean. Don't let the cleanser run down onto the body finish since this may cause streaking. Clean the entire top in this manner and then rinse the top generously to remove all traces of cleanser.

Don't keep the top folded for extended periods of time if it is damp or water soaked. Allow it to dry out in a raised position as soon as possible.

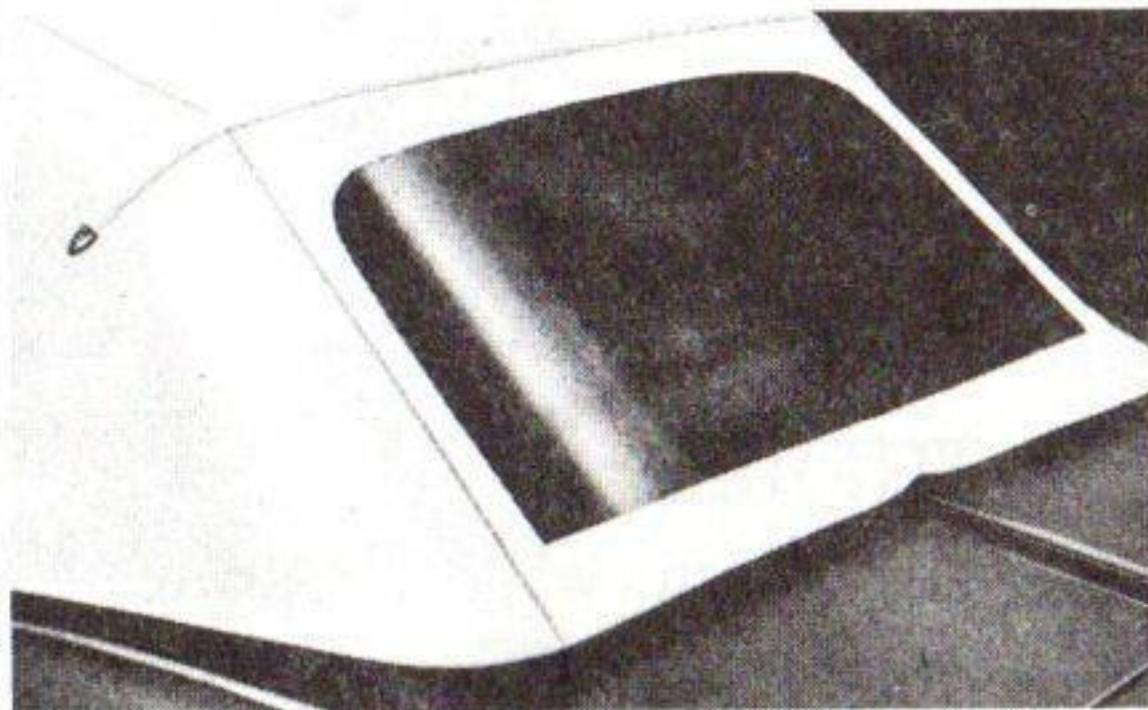
HARD TOP CARE

The optional hard top has the same durable acrylic lacquer finish as the other painted surfaces of your Corvette and may be cleaned, polished and waxed as previously outlined.

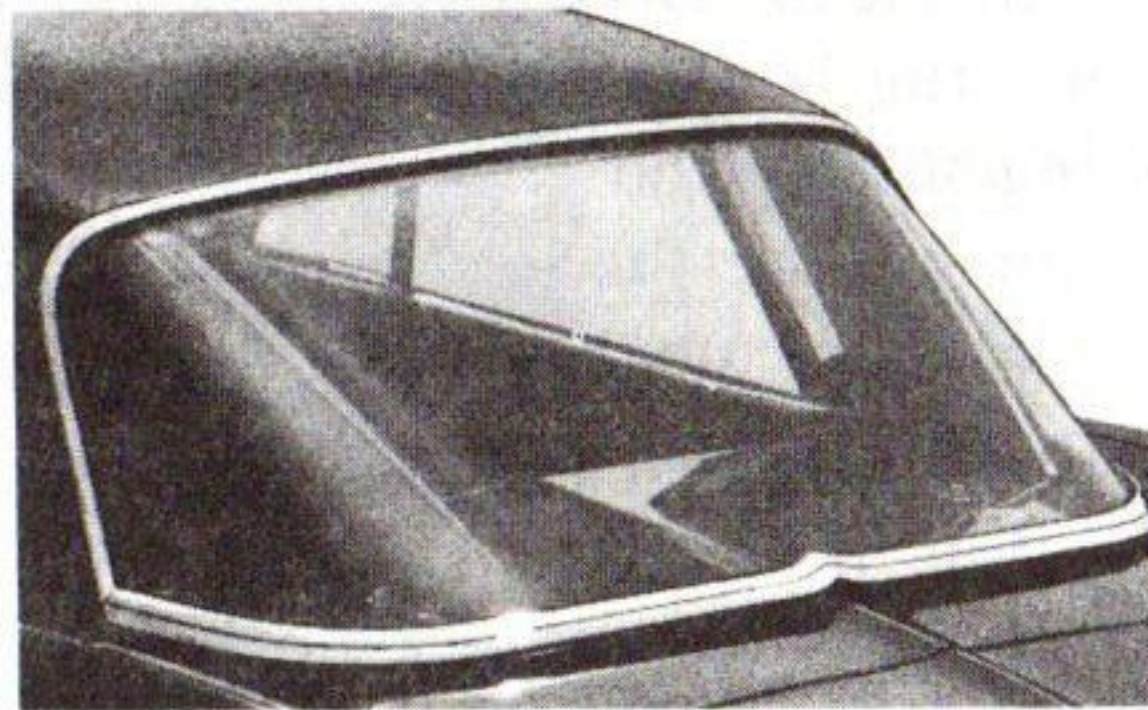
The interior headlining may be cleaned in the

same manner as the rest of the interior.

When the top is not in use, it should be stored inside in a clean, dry place. If it is to be stored for a long period of time keep it well covered to avoid a build up of dust and dirt on the painted surface or headlining.



PLASTIC WINDOW CARE



Keep the large plastic rear windows in the Corvette folding top and removable hard top in good condition as follows:

- Remove surface dust with a soft cotton cloth moistened with water and wipe cross-wise of the window.
- With a very dirty window, wash using cold or lukewarm water and a mild neutral soap. Then rinse with clear water and dry with a slightly moistened clean soft cloth.
- Add a final luster to the window by using G.M. Plastic Window Cleaner (Part No. 985381) as directed on the container.
- Use no alcohol or volatile agents.
- Do not use a scraper to remove snow, ice or frost from the rear window. In an emergency use warm water.

Fuel System Requirements

The high performance V-8 engine in your Corvette is designed to operate efficiently on premium type gasolines. See page 43 for octane requirements. Use of regular grade gasolines in higher performance engines may result in potentially dangerous engine detonation.

In some areas, grades of gasolines may be encountered which result in severe detonation. Should this occur consult an authorized Chevrolet Dealer so that adjustments can be made to eliminate this detonation or reduce it to a safe level.

In all cases excessive engine detonation, or knocking, should be avoided in order to prevent possible engine damage.

Oil System Requirements

Lowest Anticipated Temperature	Recommended Single Viscosity Oil	Recommended Multi-Viscosity Oil
32° F.	SAE 20 or 20W	SAE 10W-30
0° F.	SAE 10W	SAE 10W-30
Below 0° F.	SAE 5W	SAE 5W-20

SAE 30 or 10W-30 is recommended when most of the driving is at high speeds and/or at temperatures above 90°F.



Fuel Filler Opening

Lift up the Corvette emblem on the rear deck to reach the fuel filler opening.

For continued reliability and performance from your Corvette engine, it is recommended that you use an oil which, according to the label on the can, is

(1) intended for service MS and
(2) passes car makers' tests or meets General Motors Standard GM 4745-M. Follow the accompanying viscosity and change interval recommendations carefully and check the oil level on the dipstick regularly. Keep the level so that, with the engine hot, it falls anywhere between the FULL and ADD OIL marks.

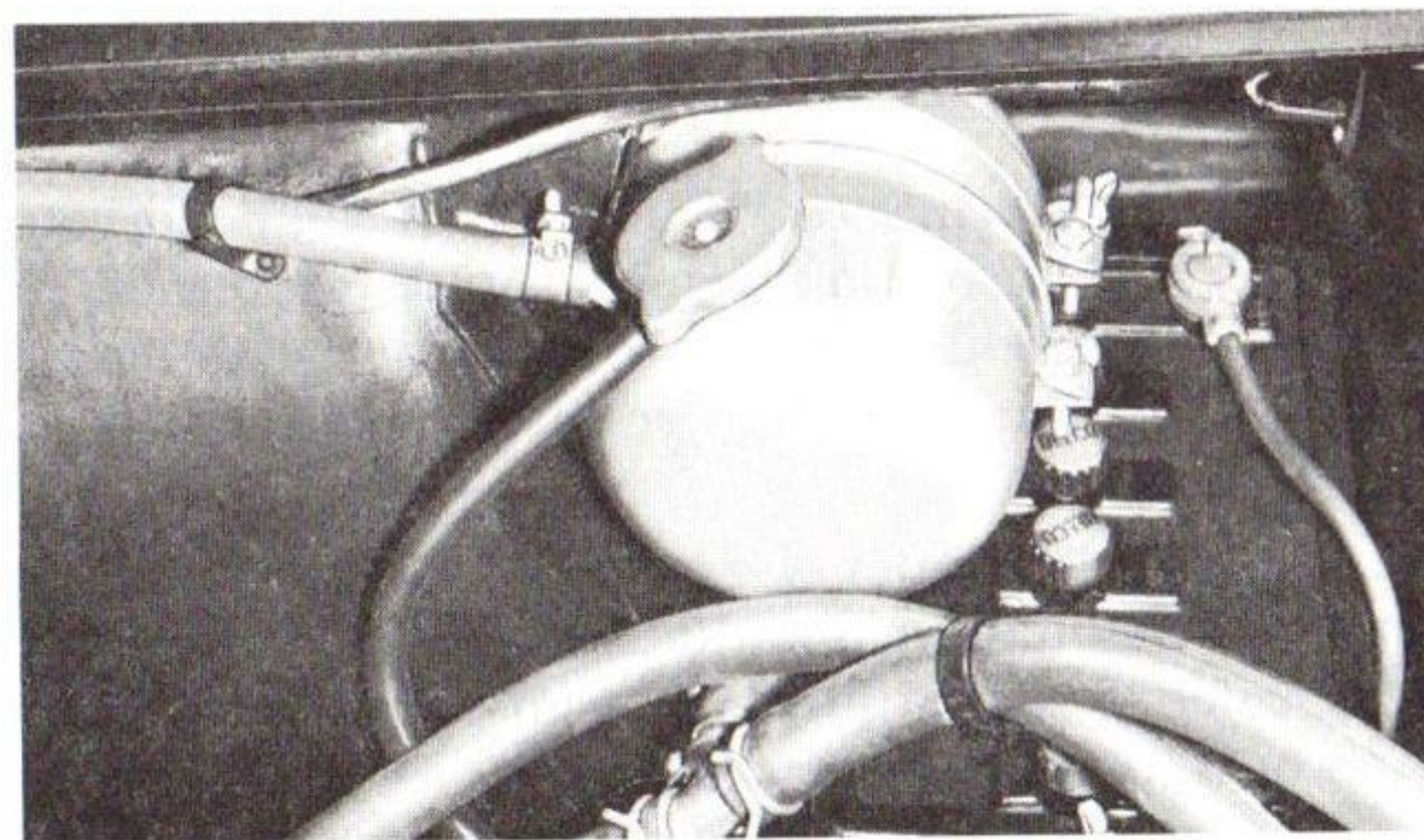


Cooling System Care

Your Chevrolet engine cooling system is equipped with a 180° thermostat and is designed to operate on permanent type (ethylene glycol) anti-freeze. Non-Permanent type coolants are not recommended since they are not satisfactory for year around use and may not effectively inhibit corrosion of the engine cooling system when used with the quality of water found in some areas.

If the anti-freeze was installed at the factory or if it meets the requirements of General Motors Standard GM 1899-M which contains adequate corrosion protection, it may be left in the cooling system for 24 months or 24,000 miles, whichever occurs first.

Check the coolant level regularly and add water or permanent anti-freeze as required to maintain supply tank half full. Concentration of coolant should be to 0° F. or below to insure sufficient corrosion protection.



Drain and flush cooling system every 24 months. Fill with mixture of permanent type anti-freeze (GM 1899-M or equivalent) and water to provide proper concentration of coolant.

Each fall have your Chevrolet dealer inspect the cooling system to insure that all connections are leakproof and that the anti-freeze content will provide adequate protection in cold weather.

NOTE: Your Corvette has an aluminum radiator and supply tank. Therefore, when adding anti-freeze, rust inhibitors or cleaners, make certain that they are safe for use with aluminum radiators.

Check the front of the radiator core occasionally for insects and leaves. Flush them out from the back side of the radiator using a water hose and city water pressure.

RADIATOR CAP

The Corvette cooling system is equipped with a 13 lb. pressure cap. To remove the cap, carefully turn $\frac{1}{4}$ turn to allow excess system pressure to escape, then turn the cap all the way off. If the engine is overheated, wait for several minutes before removing the radiator cap.

Tire Care

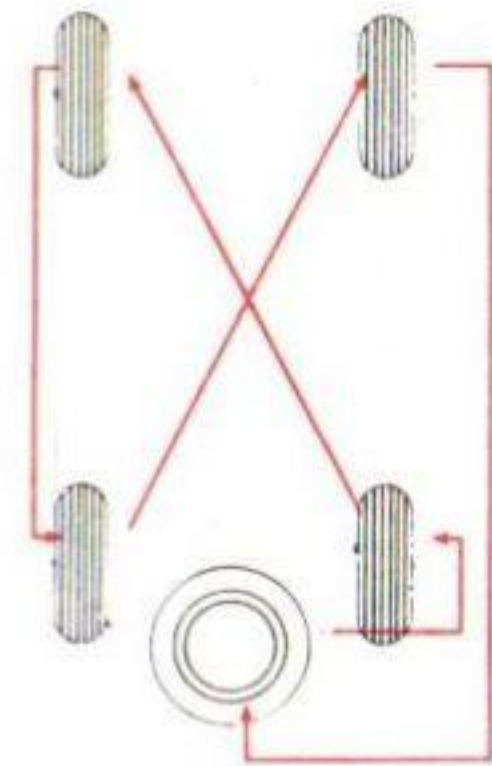
To enjoy maximum service from your tires, keep them inflated to the pressures recommended on page 46.

Regular Corvette tires should not be used for extreme vehicle operation. Special purpose tires are available, if needed, from major tire manufacturers.

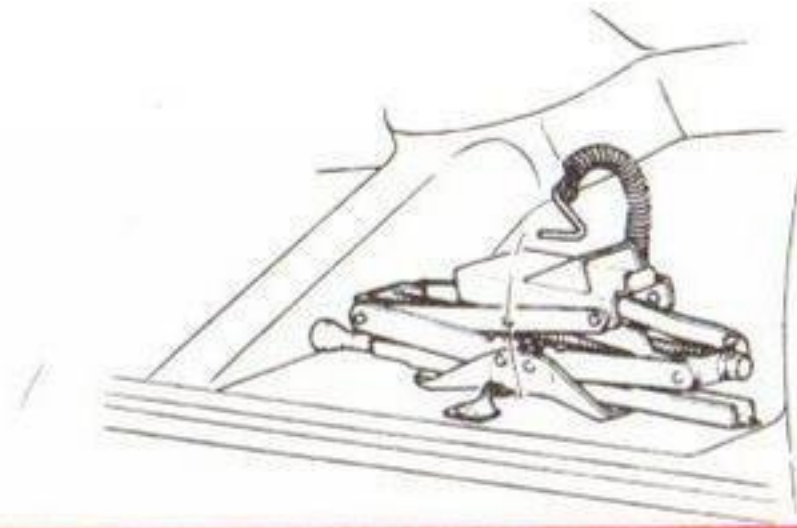
DRAINING AND FILLING THE COOLING SYSTEM

1. Open the drain cock at the bottom of the radiator.
2. Remove the drain plug located on each side of the engine block just above the oil pan and behind the spark plug wire shields.
3. Replace the engine drain plugs and close the radiator drain cock before refilling the radiator.
4. To refill, add coolant until supply tank remains one-half full. Then start engine and add coolant as necessary to maintain normal one-half-full level in supply tank. Recheck when cool and fill to normal level.

Rotate tires as shown every 6000 miles to distribute wear over all five tires. This will help you to obtain maximum service from your tires.

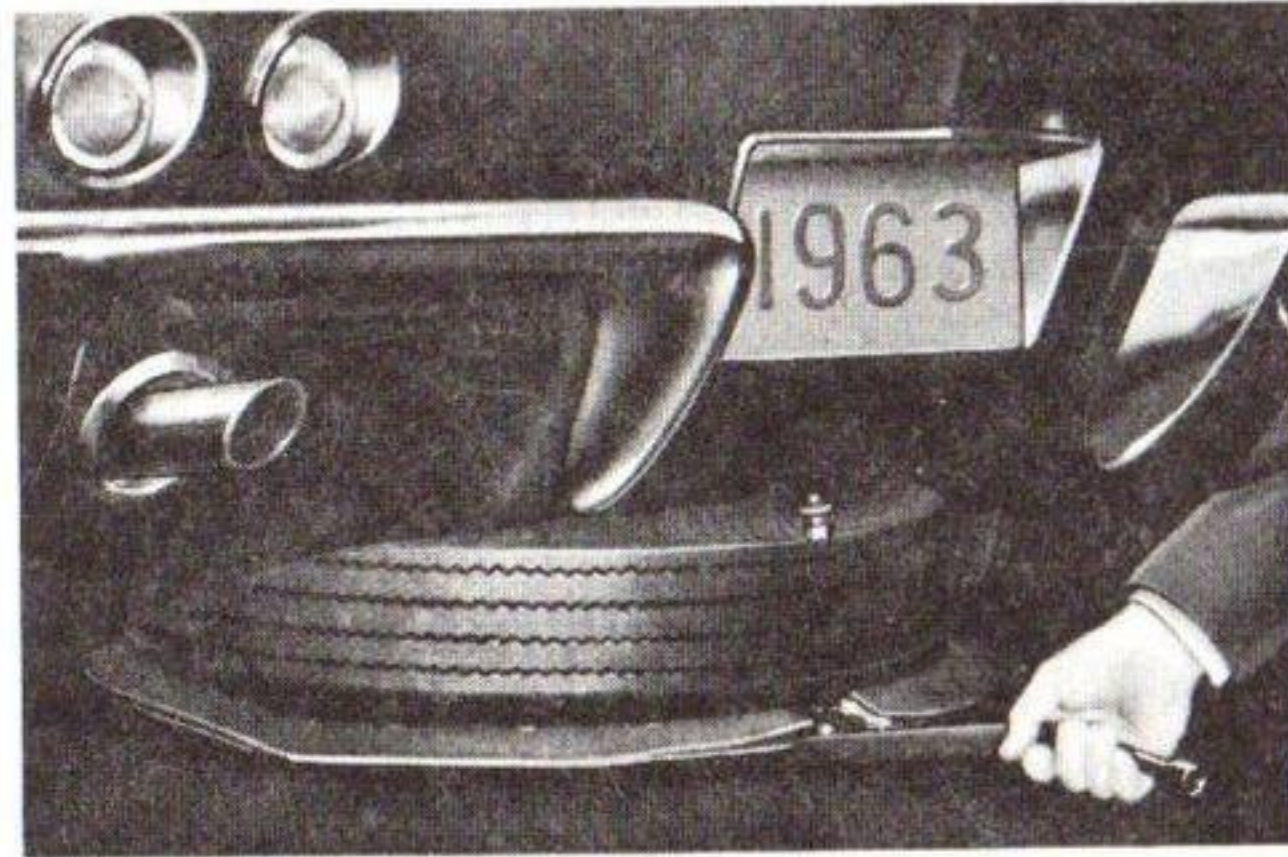
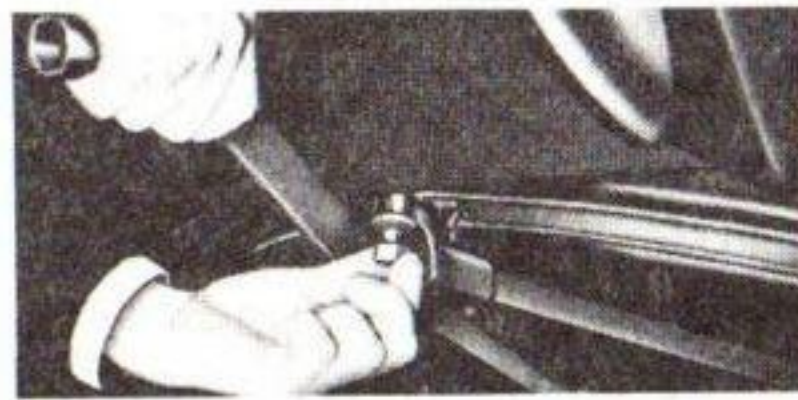
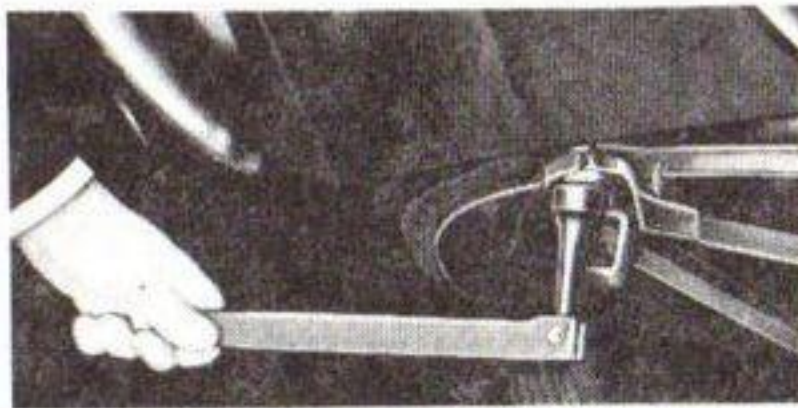


CORVETTE JACK STOWAGE



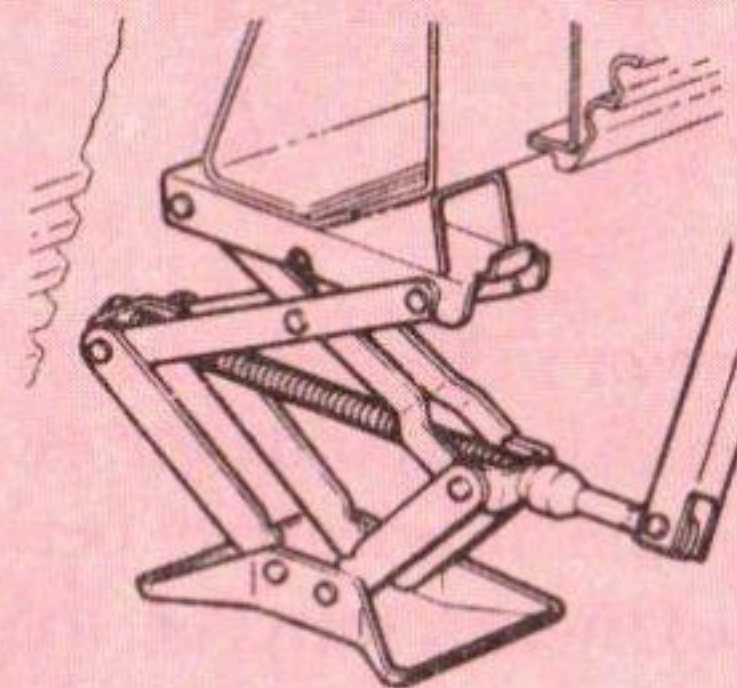
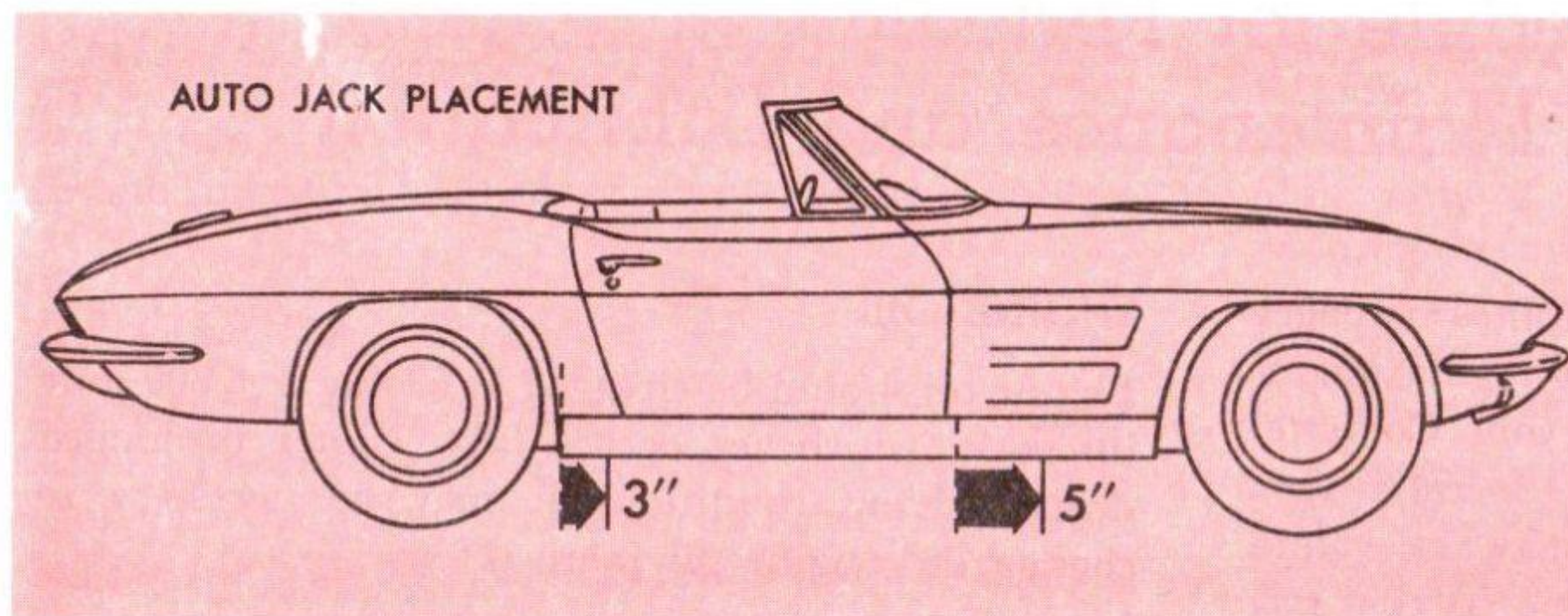
The Corvette jack is located beneath the removable panel in the rear compartment just behind the driver's seat. A strong spring over the jack and jacking wrench prevents them from bouncing or rattling.

SPARE TIRE STOWAGE



Your Corvette spare tire is located so as to utilize otherwise wasted space but is easily accessible, in the event that you need it. Unlock the spare tire compartment with your ignition key. Then:

- Using the jacking wrench, loosen the spare tire tray bolt until resistance is felt.
- Insert the end of the jacking wrench into the bracket in the spare tire tray. Lift up on the wrench to take the weight off of the bolt and move the bolt to the right and out of its slot in the tray.
- Lower the tray and tire to the ground and remove the jacking wrench.
- Remove the spare tire by pulling it straight back from the car.
- Replace the tire by reversing the above procedure.



CHANGING YOUR CORVETTE'S WHEELS

1. Remove the hub cap by prying off with the finger provided on the end of the jacking wrench.
2. Using the jacking wrench, loosen the wheel nuts about one half turn.
3. Set the parking brake and block diagonally opposite wheel.
With Powerglide transmission place selector lever in PARK position.
With manual transmission place the shift lever in:
FIRST when jacking front wheels.
REVERSE when jacking back wheels.

4. Position the jack under the car as shown in the illustration above. Be sure that the load rest of the jack contacts the frame as shown.
5. Raise car using the jack until the tire clears the ground.
6. Remove the wheel nuts and wheel, place spare wheel on studs and replace all wheel nuts. Tighten moderately.
7. Lower car until the tire just touches ground, then tighten nuts fully.
8. Lower the car fully, replace hub caps and restow tire, jack and handle.

Recommended Schedule for Periodic Maintenance and Lubrication

The time or mileage intervals on the following pages are intended as a guide for establishing regular maintenance and lubrication periods for your Corvette. Sustained heavy duty or high speed operations or operation under adverse conditions may necessitate more frequent servicing. To determine specific recommendations for conditions under which you use your car, consult your Authorized Chevrolet Dealer.

BATTERY

Check the fluid level in each cell of the battery regularly and keep filled with distilled water to the bottom of the split ring in the vent tube of each cell. **DO NOT OVERFILL.**

Clean and oil the battery terminals and oil the felt washer at each regular engine oil change.

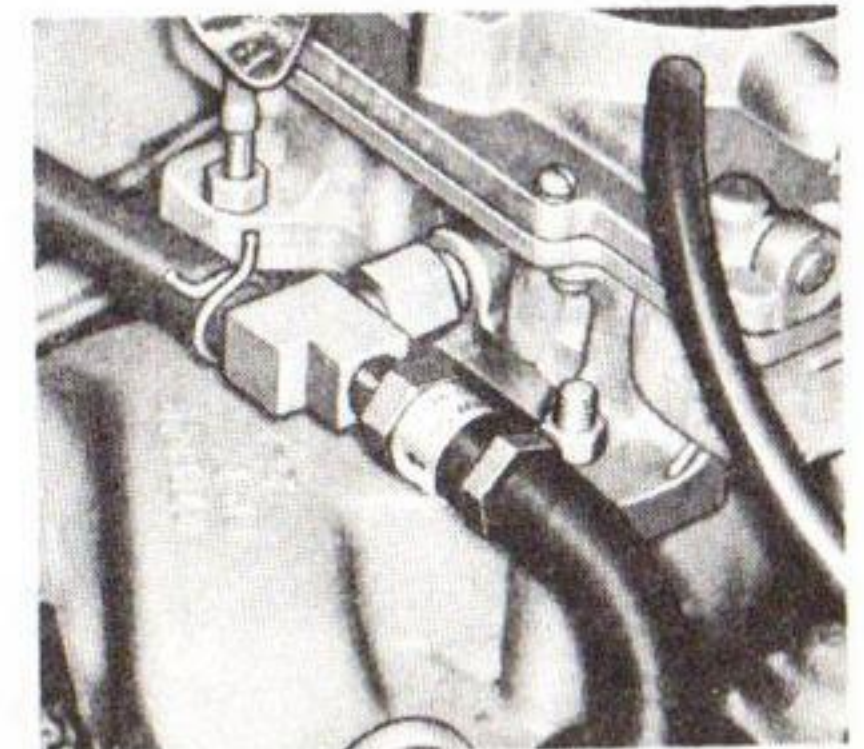
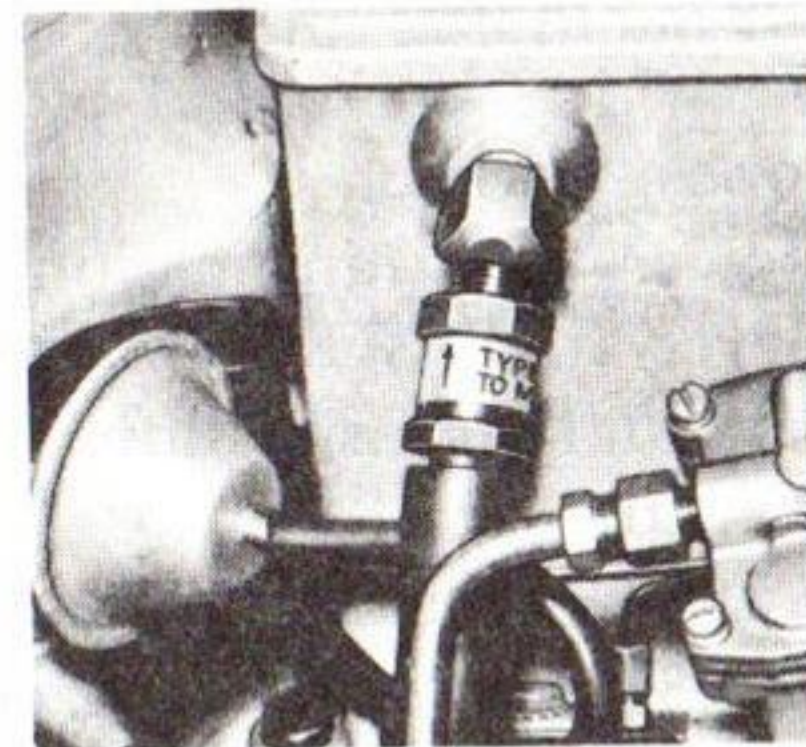
Check the state of charge regularly, especially in freezing weather when an undercharged battery may freeze and break.

ENGINE OIL

Engine oil should be changed at 60 day or 6,000 mile intervals, whichever occurs first. Under prolonged dusty driving conditions it may be necessary to change the engine oil more often.

CRANKCASE VENTILATION VALVE

At every oil change, more often under prolonged dusty driving conditions, the valve should be tested for proper function and replaced when necessary.



FAN BELT

Every 6,000 miles inspect fan belt for wear, fraying, cracking and tension. Belt should be retightened only when it deflects more than $\frac{1}{2}$ " with moderate thumb pressure applied midway between pulleys.

AIR CLEANER

Every 12,000 miles (more often under dusty or other adverse driving conditions) remove the polyurethane element from its support screen and clean in suitable solvent such as Kerosene. Squeeze out all solvent, then soak in engine oil and squeeze out. Remove excess oil by then squeezing the element in a clean dry cloth.

OIL FILTER

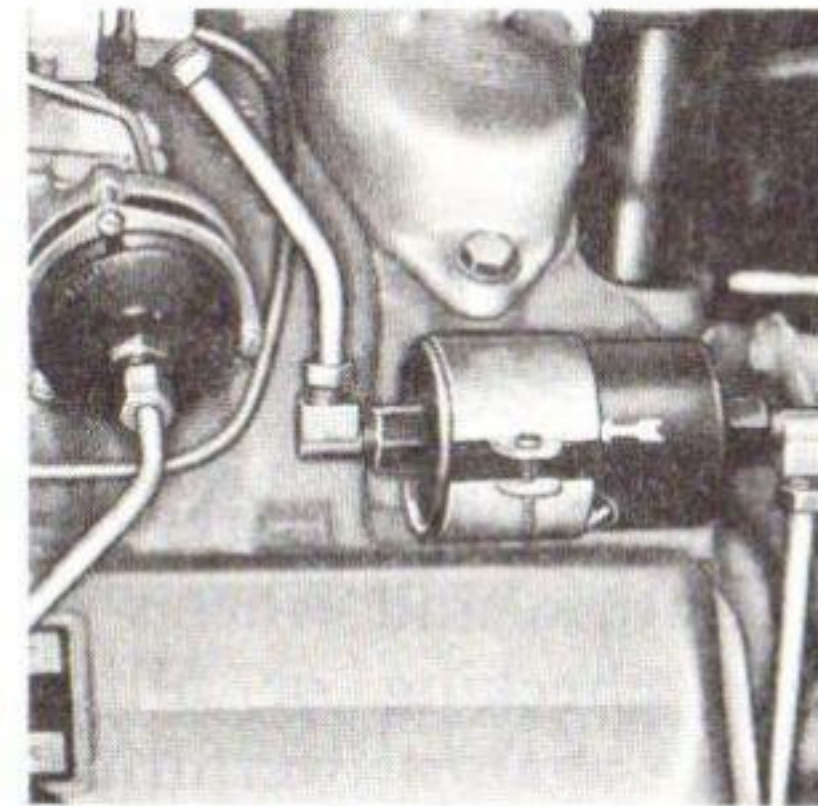
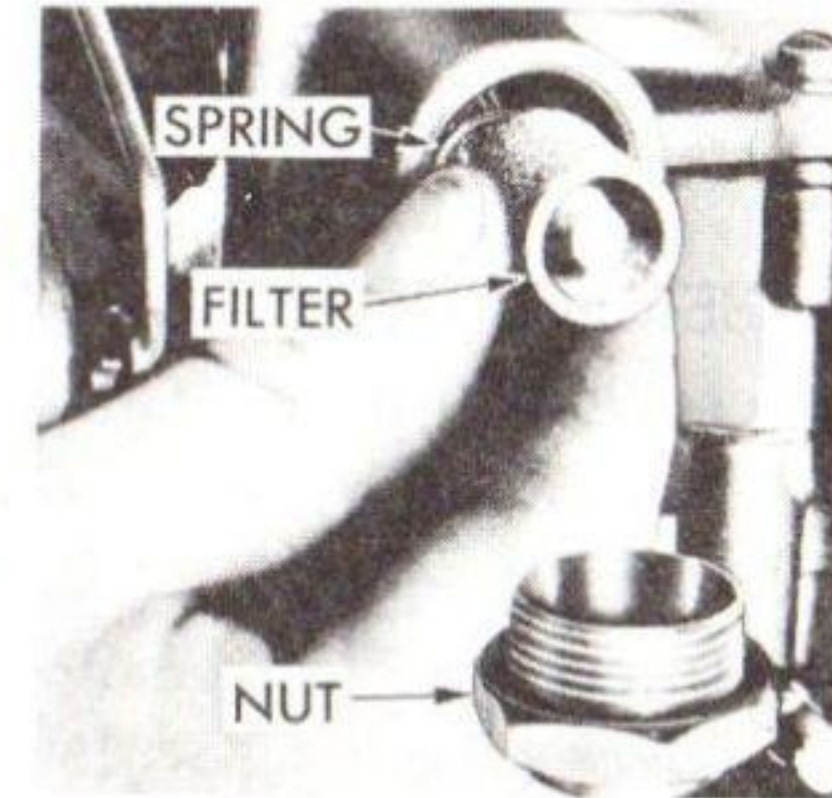
The oil filter should be changed at 6,000 miles or 6 month intervals, whichever occurs first. During prolonged dusty driving conditions the filter should be changed more often.

DISTRIBUTOR

Change cam lubricator end for end at 12,000 mile intervals—Replace at 24,000 mile intervals.

FUEL FILTER

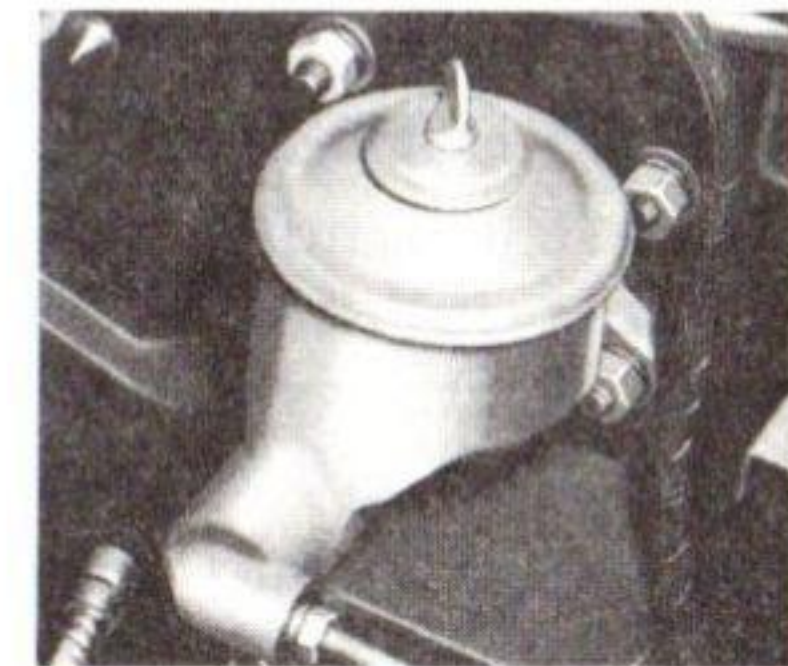
Carburetor Type Filter—Remove the fuel line and inlet fitting to replace the filter only if carburetor flooding occurs. Do not attempt to clean the filter. This filter is used on the 250 hp engine only.



In-Line Filter—Replace the entire filter every 12,000 miles. To replace: Remove inlet fitting and loosen filter bracket, then turn entire filter to remove. Observe the direction of fuel flow when installing the new filter.

BRAKES

Master Cylinder — Every 6,000 miles — Check fluid level and maintain $\frac{1}{4}$ " below filler opening with GM Hydraulic Brake Fluid, Super No. 11.



Parking Brake Cables and Linkage — Every 6,000 miles—Apply lubricant specified in Note 1, page 38.

STEERING GEAR

Every 30,000 miles—Check lubricant level as follows:

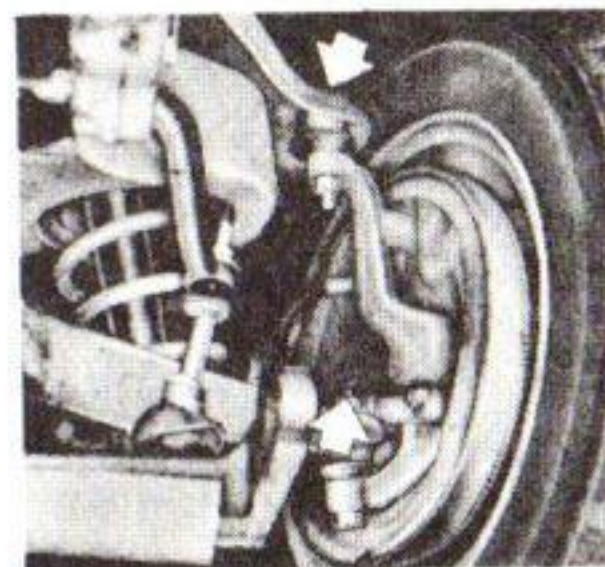
1. Remove the forward and the outboard cover attaching screws.
2. Inject steering gear lubricant into the forward cover attaching screw hole until lubricant begins to come out of the outboard screw hole.
3. Replace both screws.

POWER STEERING PUMP

Check fluid level in pump reservoir every 6,000 miles or 6 months. Fill as required with Automatic Transmission fluid "Type A" with AQ-ATF-A mark. Oil should be at operating temperature and wheels in straight ahead position when checking or filling operation is performed to ensure against overfilling.

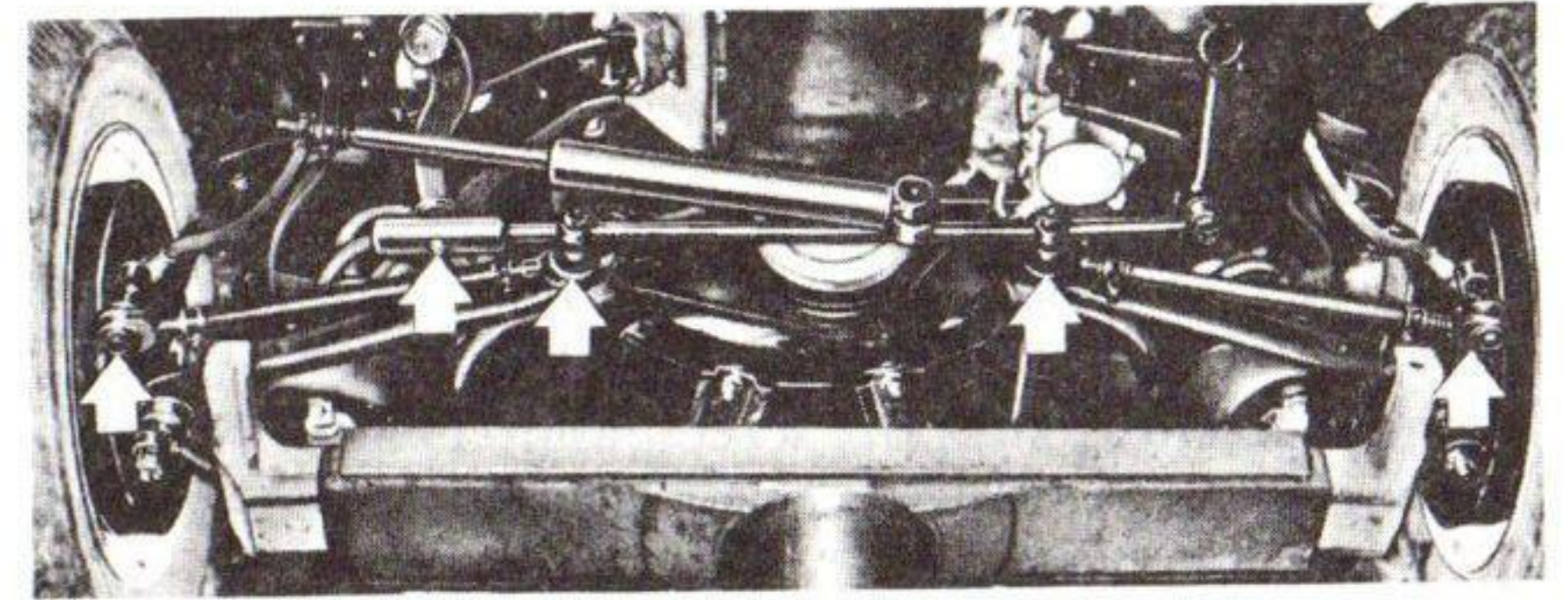
FRONT SUSPENSION

Every 6,000 miles or 6 months, lubricate 4 fittings (2 fittings on each side), with lubricant specified in Note 1, page 38.

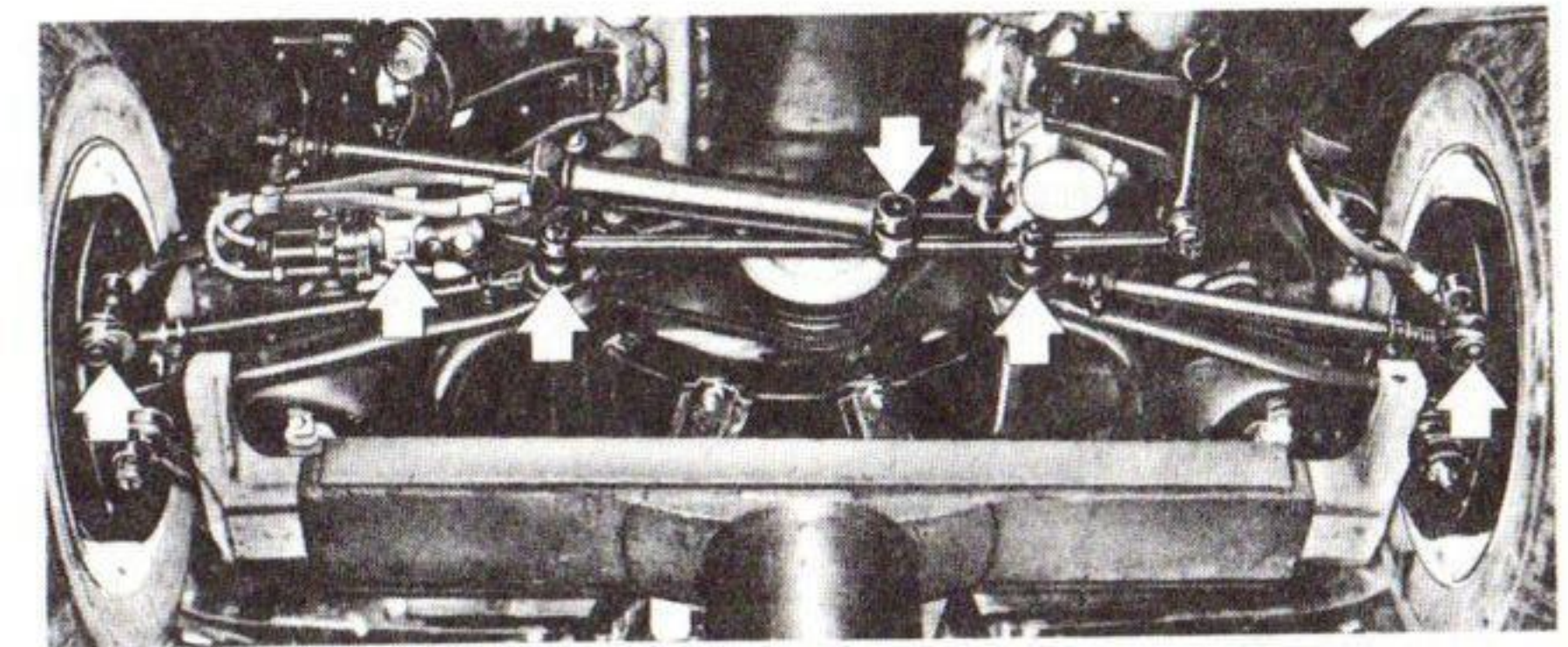


STEERING LINKAGE

Every 6,000 miles or 6 months—lubricate fittings shown below with lubricant specified in Note 1, page 38.



Manual—Fitting at each tie rod end and at relay rod (5 fittings).



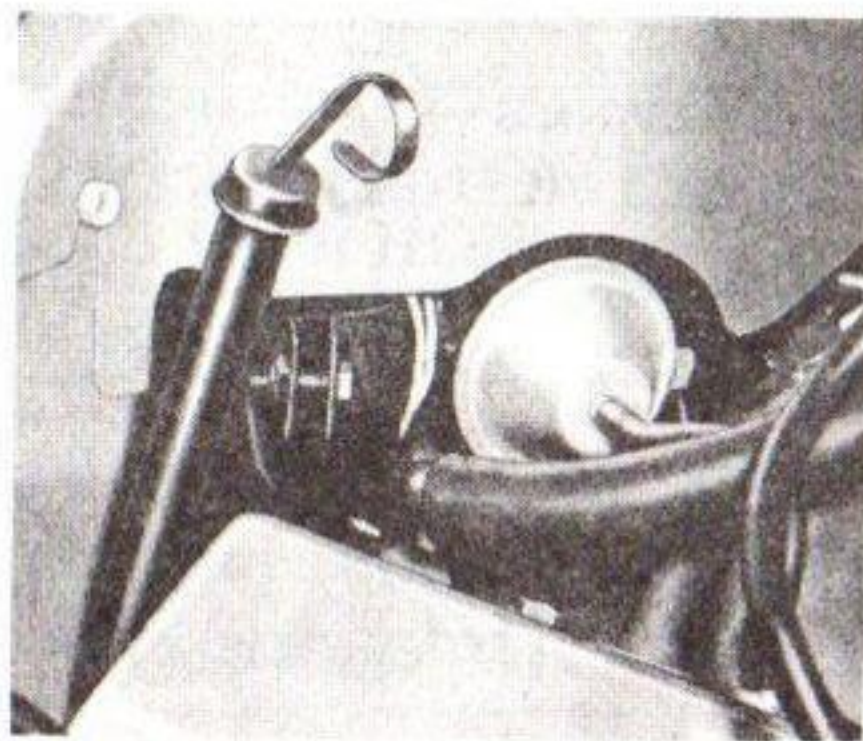
Power—Fitting at each tie rod end and at power steering valve adapter and cylinder (6 fittings).

TRANSMISSION

3-Speed and 4-Speed—Every 6,000 miles—Check at operating temperature and fill as necessary to level of filler plug hole with lubricant specified in Note 2, page 38.

Powerglide—Every 6,000 miles—Check fluid level on dipstick with engine idling, selector lever in neutral “N” position, parking brake set and transmission at operating temperature. Add Automatic Transmission fluid “Type A” bearing the mark AQ-ATF, followed by a number and suffix letter “A” to “full” mark on dipstick. **DO NOT OVERFILL.**

Lubricate shift linkage with lubricant specified in Note 1, page 38.



WHEEL BEARINGS

Every 30,000 miles—Clean and repack front and rear bearings with a high melting point wheel bearing lubricant.

REAR AXLE

Every 6,000 miles—Check and keep filled to level of filler plug hole with lubricant specified in Note 2, page 38.

With Positraction, use only the special Positraction Rear Axle Lubricant available from your Chevrolet Dealer.

CLUTCH CROSS SHAFT

Every 6,000 miles or 6 months—Lubricate with lubricant specified in Note 1, page 38.

UNIVERSAL JOINTS—Every 30,000 miles, more often under prolonged dusty driving conditions, clean and repack with high melting point wheel bearing lubricant.

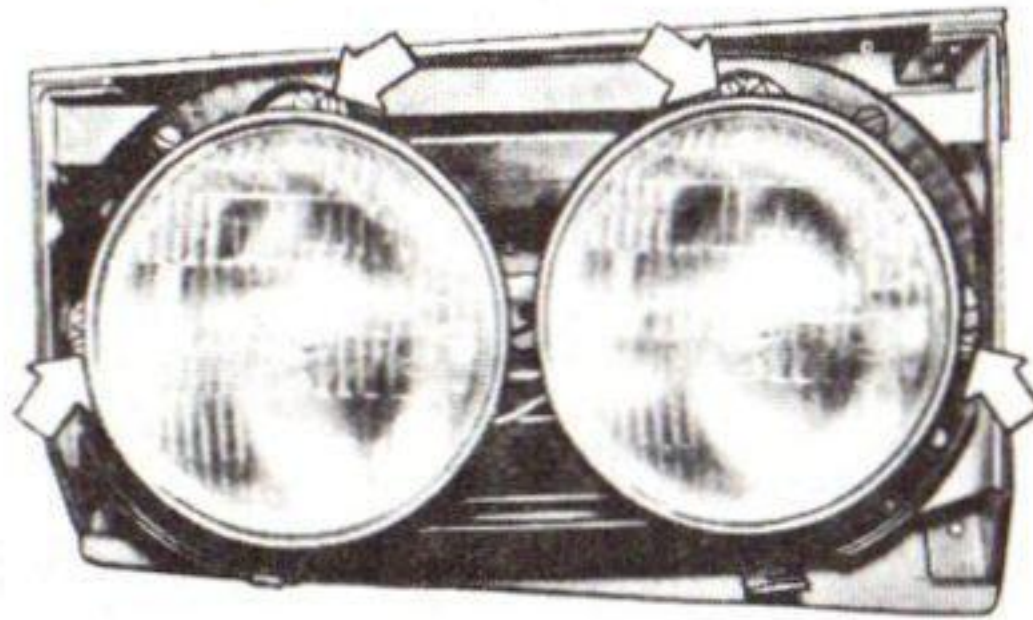
ENGINE TUNE-UP

Every 12,000 miles have engine tune-up operations performed for maximum engine performance.

HEADLAMP REPLACEMENT

Replace individual headlamps as follows:

Open headlamp doors and remove cover panel, then remove two retaining ring attaching screws per lamp indicated below. *Don't disturb the large head adjusting screws.* Pull lamp forward and unplug the electrical connector. Plug in the new lamp and reverse the removal procedure to install.



HEADLAMP AIMING

Improperly aimed headlamps can be dangerous. Periodic headlamp checks for proper aiming and adjustment are strongly recommended. Your Chevrolet Dealer is well equipped to provide such service.

NOTE 1: Lubricate with water resistant EP chassis lubricant.

BODY LUBRICATION POINTS

Lubricate the following items when possible.

Hood Latch Mechanism and Hinges—Apply light engine oil to pivot points. Don't oil lock pins or catch plates.

Rear Compartment Lid Release and Hinges—Apply light engine oil.

Side Door Hinge Pins—Apply light engine oil.

Door Lock Rotor and Striker Plate—Apply light engine oil or stainless stick lubricant.

Lock Cylinders—Lubricate with powdered graphite.

Window Regulators and Controls and Door Lock Remote Link—Apply light engine oil.

Gas Tank Filler Cap Hinge—Apply light engine oil.

Weatherstrips and Rubber Bumpers—Coat lightly with a rubber lubricant such as Chevrolet Spray-a-Squeak (G. M. Part No. 987883).

NOTE 2: Lubricate with SAE 80 or SAE 80-90 Multi-purpose Gear Lubricant meeting requirements of U. S. Ordnance Spec. MIL-L-2105B.

MINOR TROUBLE SHOOTING GUIDE

If your car is performing in the following manner: Check here in sequence shown for possible causes.	Check Fuel Gauge	Flooded Engine	Poor Fuel Supply	Idle Adjustment	Automatic Choke*	Oil Level and Pressure	Condition of Air Cleaner	Automatic Transmission Selector Lever	Check Spark	Battery and Connections	Generator and Voltage Regulator Connections	Coil and Distributor Leads	Starter Connections	Radiator Water Level	Air Flow Through Radiator Restricted	Fan Belt Condition and Tension Adjustment	Cooling System Thermostat	Thorough Check and Tune-up Suggested*
	14	6 or 9	40		41	13 and 29	35	8	42	34 and 41	41	41	41	30 and 31	30	35	31	
CAR WILL NOT START:																		
Engine Will Turn Over	1	4	3						5			2						6
Engine Will Not Turn Over								1		2			3					4
CAR WILL START—BUT:																		
Only After Repeated Tries																		1
Stalls in a Few Seconds	1		2	3			4					5						
Stalls When HOT				1	2		3											4
Idles Roughly				1	3		2											4
Engine Overheats														1	2	3	4	
No Oil Pressure Indicated						1												
Ammeter Points to "Zero" or Negative Side										3	2					1		

*See Your Authorized Chevrolet Dealer

MINOR TROUBLE SHOOTING PROCEDURES

The chart on the previous page, and the information on the pages which follow, contains information designed to aid the average driver to discover, and possibly correct, conditions resulting in minor mechanical difficulties in his car. The chart, designed to point out possible solutions to several of the most common automotive malfunctions and point out a logical checking sequence, will lead step by step to the most likely causes and corrective procedures. If, after making the checks and adjustments suggested, the source of the trouble has not been found and corrected, it is strongly recommended that an Authorized Chevrolet Dealer inspect the vehicle and make whatever repairs or adjustments are necessary.

FUEL SYSTEM AND ENGINE

If the ignition switch will cause the engine to "turn over" or "crank" but the car will not start, check Steps A through D below.

NOTE: *If Continual "flooding" of the carburetor is evidenced by a carburetor wet with fuel or black exhaust smoke, perform the operation suggested in paragraph D only.*

(A) The first and most obvious, and one of the most frequently overlooked, items to check when you have difficulty in starting your car is the amount of fuel in the tank. Make it a habit to check the FUEL GAUGE reg-

ularly and most especially at a time when the engine will "turn over" but will not start.

(B) If the fuel tank is not empty, you may check further to see whether the fuel is reaching the carburetor. Disconnect the fuel line at the carburetor. Place a jar or cup under the open line and briefly "crank" the engine by means of the starter. If fuel spurts from the fitting, you may assume that the FUEL LINES are clear and the FUEL PUMP is operating properly. If no fuel leaves the line, either the fuel lines, fuel pump or the in-line filter are at fault. See your Authorized Chevrolet Dealer.

(C) Before reconnecting the fuel line to the carburetor, remove the FUEL FILTER from the carburetor inlet and check its condition. If it appears to be clean, replace it and reconnect the fuel line. If the filter appears to be plugged, clean it as well as possible by scraping out the foreign material and cleaning in a solvent. Then reinstall the filter with a new one as soon as possible.

(D) If the fuel seems to be reaching the carburetor properly, the problem may be: an EMPTY CARBURETOR BOWL caused by a "stuck shut" carburetor; a FLOODED CARBURETOR caused by a "stuck open" condition and evidenced by gasoline flowing down the outside of the carburetor; or a stuck CHOKE valve. Remove the air cleaner from the carburetor. Check that the choke valve moves freely and is not stuck. (Don't mistake normal spring tension for a stuck valve.) Tap the side of the carburetor sharply several times with a light tool such as a screwdriver handle or pliers. Replace the air cleaner and attempt to start the engine in the normal manner.

(E) If the car will start but stalls when hot or has a rough idle, you can suspect a faulty IDLE ADJUSTMENT, a malfunctioning AUTOMATIC CHOKE or an extremely dirty and blocked AIR CLEANER ELEMENT. Clean your air cleaner element if necessary.

If the above Fuel System checks and the checks suggested under the Electrical System following do not correct the malfunction, it is recommended that you turn to your Authorized Chevrolet Dealer for further checks, adjustments or repairs.

ELECTRICAL SYSTEM

If, when the ignition key is turned to "Start," the engine will not turn over, you have good reason to suspect electrical trouble.

(F) When there is no response at all to attempts to start the car, check the obvious—your AUTOMATIC TRANSMISSION SELECTOR LEVER must be in Neutral or Park position before the engine can be started. Turning the IGNITION SWITCH rapidly back and forth several times will sometimes correct a poor internal switch contact.

(G) The BATTERY may be discharged. If so, lights will be dim and the horn will have a poor tone if it will blow at all. Usually a garage recharge will be necessary to return the battery to operation. Occasionally, however, a push start and long drive will recharge the battery.

NOTE: *If the battery is determined to be dead, and for no apparent reason, have your Authorized Chevrolet Dealer check the battery, the GENERATOR and the VOLTAGE REGULATOR. GENERATOR trouble should already have been indicated by the ammeter.*

POOR BATTERY CONNECTIONS may be suspected if the car has operated properly a short time before and now not even the horn will operate. Check both ends of both battery cables. If the connections are corroded, a car may sometimes be restored to operation by removing all cable ends, scraping all contacting surfaces clean with a pen knife, and reassembling. If the cables are broken, they must be replaced. The power supply should now be restored unless the battery is dead.

(H) If, however, the lights and horn work properly but the starter will still not turn over, check the STARTER connections. A "click" from the starter solenoid indicates that the wiring to the starter is properly installed. If the wiring seems to be clean and tightly installed, the trouble is probably in the starter itself and should be referred to your Authorized Chevrolet Dealer.

When the engine will "turn over" but will not start, the following items may be checked along with the Fuel System Checks listed previously.

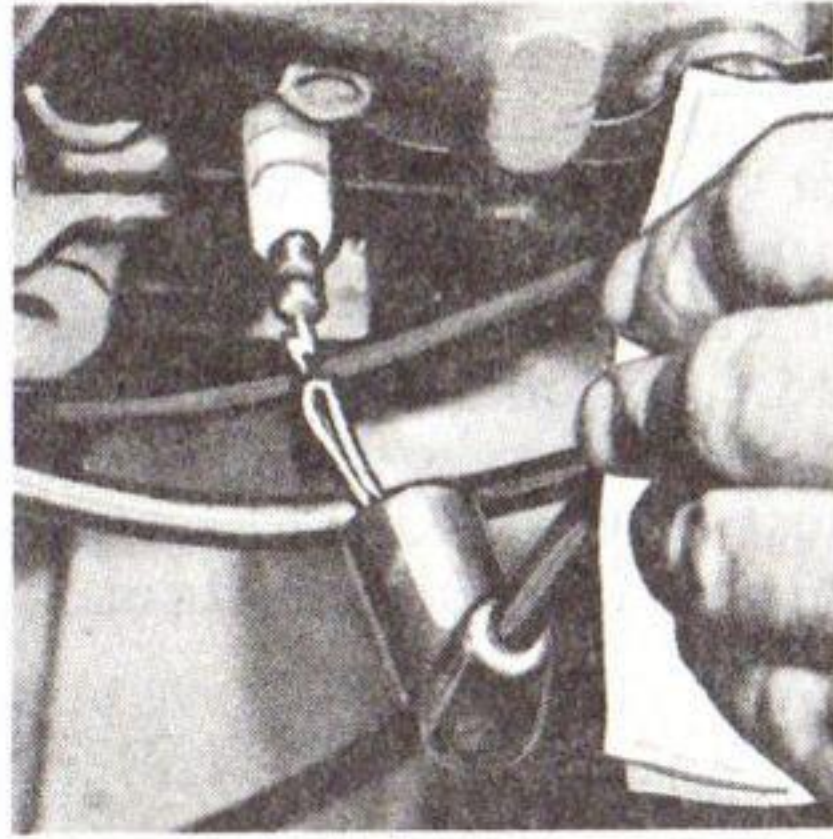
(I) With a clean dry cloth wipe the ceramic portions of the spark plugs dry. In particularly damp or rainy weather dampness may be the cause of not starting, especially when the engine is cold.

(J) Check the cables at the top of the distributor and coil as well as each spark plug cable for tightness.

(K) If the car will still not start, check for spark at the spark plugs in the following manner:

Pull one of the spark plug wires off its spark plug. Insert a short piece of bare wire (such as a bobby pin) between the

rubber cup at the end of the spark plug wire and the tubular metal connector inside of it. *If the spark plug wire is wet or oily, wipe it dry. Wrap a dry handkerchief or facial tissue, folded several thicknesses, around the wire at least three inches back from the end and grasp the wire at this point.* Hold the bare wire about $\frac{1}{4}$ inch from the bare tip of the spark plug from which you removed the wire or from any part of the engine. When the engine is "turned over" a spark should jump across the $\frac{1}{4}$ inch space, indicating ample current supply. If no spark jumps, the difficulty is probably caused by a defective ignition part and should be corrected by your Authorized Chevrolet Dealer.



Checking Spark

COOLING SYSTEM

When the car will run but evidences serious overheating on the temperature gauge in the instrument panel, there are several items which may be checked.

(L) Engine overheating will occur when the OIL LEVEL falls dangerously low. Check the oil level as a matter of course.

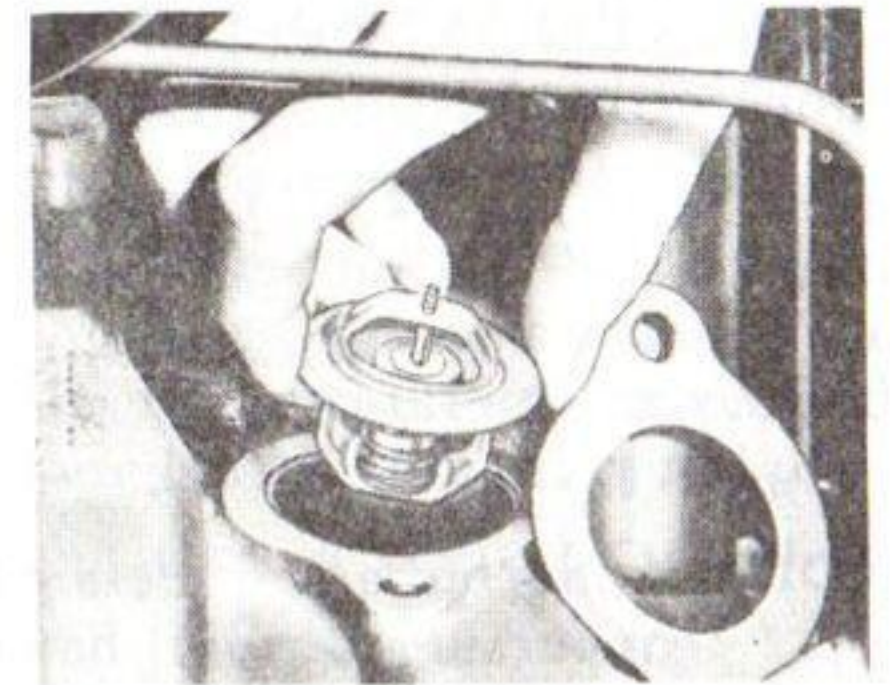
(M) Low WATER LEVEL will, of course, cause engine

overheating. Determine the cause of the low water level and have it corrected if necessary.

(N) Check the RADIATOR CORE. Clean it if it is plugged with bugs, leaves or other foreign material.

(O) Condition of the FAN BELT is very important, not only for engine cooling but also for proper generator operation. Check the condition of the belt. Replace it if it is worn or frayed. Loosen the generator bolts and move the generator toward the engine to remove and replace the belt. Tighten the belt, whether new or old, by loosening the generator bolts, prying with a bar on the generator until the belt is tensioned properly, then retighten the generator bolts. Proper belt tension is such that, when pressed hard at a point midway between the generator and fan pulleys, the belt will deflect about $\frac{1}{2}$ inch.

(P) Another cause of engine overheating may be an inoperative COOLING SYSTEM THERMOSTAT. If the thermostat should fail in the closed position, it will not permit water to circulate through the system. In such an emergency the thermostat may be removed but should be replaced with a properly functioning thermostat as soon as possible.



Thermostat Installation

TECHNICAL DATA AND SPECIFICATIONS

CAR SERIAL NUMBER—Stamped on Vehicle Identification Plate attached to left rear door jam.

ENGINE IDENTIFICATION—Stamped on right front engine boss next to water pump.

Engine Name	Cyls.	Bore X Stroke	Comp. Ratio	Disp. (Cu. In.)	Fuel Induction	Exhaust	Gross Torque	Horsepower	Lifters	Trans. *	Octane Req'ment
Corvette	V-8	4" x 3¼"	10.5	327	4 Bbl.	Dual	350 @ 2800 RPM	250 @ 4400 RPM	Hyd.	1-2-4	99-101
Corvette	V-8	4" x 3¼"	10.5	327	A.F.B. 4 Bbl.	Dual	360 @ 3200 RPM	300 @ 5000 RPM	Hyd.	1-2-4	99-101
Corvette	V-8	4" x 3¼"	11.25	327	A.F.B. 4 Bbl.	Dual	344 @ 4000 RPM	340 @ 6000 RPM	Mech.	1-3	100-102
Corvette	V-8	4" x 3¼"	11.25	327	Fuel Inj.	Dual	352 @ 4000 RPM	360 @ 6000 RPM	Mech.	1-3	100-102

* 1. 3-speed 2. 4-speed regular 3. 4-speed close ratio 4. Powerglide

CHASSIS DIMENSIONS

Wheel base	98"
Length (Overall)	175.3"
Width (Overall)	69.6"
Height	
Loaded—Folding Top Up	49.8"
Loaded—Hard Top	49.8"
Loaded—Sport Coupe	49.8"
Tread	
Front	56.25"
Rear	57.00"

ENGINES

Firing Order 1-8-4-3-6-5-7-2

AMA Horsepower—48.0

Distributor:

Dwell—Single Point 28° —32°

Point Gap—Single Point016" used—.019" new

Breaker Arm Tension 19-23 oz.

Spark Plugs

AC 45 or AC 46—City Driving Only

AC 44 (Orig. Equip.) —Town and Country Driving

AC C43 COM—Heavy duty and high output

AC C42-1 COM—Extended and extreme high output

Plug Gap035"

Engine Timing and Idle Speeds:

Standard Engine	4° BUDC @ 500* rpm
A.F.B. 4 Bbl Engine (Hydraulic Lifter Camshaft)	8° BUDC @ 500* rpm
A.F.B. 4 Bbl Engine (Solid Lifter Camshaft Engine)	10° BUDC @ 700 rpm
Fuel Injection (Solid Lifter Camshaft Engine)	10° BUDC @ 700 rpm

*475 rpm for Powerglide

NOTE: *The above settings must be made with the vacuum line disconnected and plugged.*

Valve Specifications:

SOLID LIFTERS:

Intake	.008" Clearance
Exhaust	.018" Clearance

HYDRAULIC LIFTERS:

With engine idling, back off adjusting screw until tappet begins to click lightly; then turn screw down one full turn at both intake and exhaust.

Fuel System:

STANDARD CARBURETOR:

Carter WCFB 4-Barrel Downdraft with Integral Automatic Choke is used with:

250 hp engine—Manual and Powerglide
Transmissions

OPTIONAL CARBURETOR:

Carter A.F.B. 4-Barrel Downdraft carburetor with
Integral Automatic Choke is used with:

300 h.p. engine—Manual and Powerglide
Transmissions

340 h.p. engine—Manual Transmission only

FUEL INJECTION:

Rochester continuous flow fuel injection unit is used
with:

360 h.p. engine—Manual Transmission only

TRANSMISSIONS

Three Speed

RATIOS:

First Speed Forward	2.47:1
Second Speed Forward	1.53:1
Third Speed Forward	1:1
Reverse	2.8:1

Four Speed

RATIOS:

	Reg- ular	Close Ratio
First Speed Forward	2.54:1	2.2:1
Second Speed Forward	1.89:1	1.64:1
Third Speed Forward	1.51:1	1.31:1
Fourth Speed Forward	1:1	1:1
Reverse	2.61:1	2.26:1

Powerglide

RATIOS:

Maximum Torque Converter	2.10:1
Maximum Overall	3.70:1
Low	3.70 to 1.76:1
Reverse	3.70 to 1.76:1

REAR AXLE

RATIOS:

Three speed	3.36:1
Four speed (Regular)	3.36:1
(Optional)	3.08:1

Four speed (Close Ratio) 3.70:1

Powerglide 3.36:1

Positraction (Available with all
Transmissions) 3.36:1

(Available with 4-speed
Transmissions only) 3.08:1

(Available with 4-speed
Close Ratio
Transmission only) 3.55:1,
3.70:1,
4.11:1,
4.56:1.

STEERING

Steering Gear Ratio 16.0:1

Overall Ratio 19.6:1

(with Fast Steering Adjustment) 17.0:1

WHEEL ALIGNMENT

Front	{	Caster	Pos. $1\frac{3}{4}^{\circ} \pm 1\frac{1}{2}^{\circ}$
		Camber	Pos. $\frac{3}{4}^{\circ} \pm 1\frac{1}{2}^{\circ}$
		Toe In (Total)	$\frac{3}{16}''$ to $\frac{5}{16}''$
Rear	{	Camber	Neg. $1\frac{1}{3}^{\circ} \pm 1\frac{1}{2}^{\circ}$
		Toe In (Total*)	0'' to $\frac{1}{8}''$

*Each wheel must be adjusted independently.

TIRES

Size 6.70 x 15-4 ply—tubeless

Pressures

Cold (After standing 3 hours or driving less than a mile) 24 lbs.
Hot (3 miles or more below 40 mph) 26 lbs.
 (3 miles or more above 40 mph) 28 lbs.

NOTE: For sustained high speed operation a starting pressure of 36 lbs. is recommended.

CAPACITIES

Fuel Tank 20 gallons

Crankcase refill

250 and 300 h.p. engines

Without filter 4 quarts
 With filter 5 quarts

340 and 360 h.p. engines

Without filter 5 quarts
 With filter 6 quarts

Cooling System

With heater 16.5 quarts

Transmissions

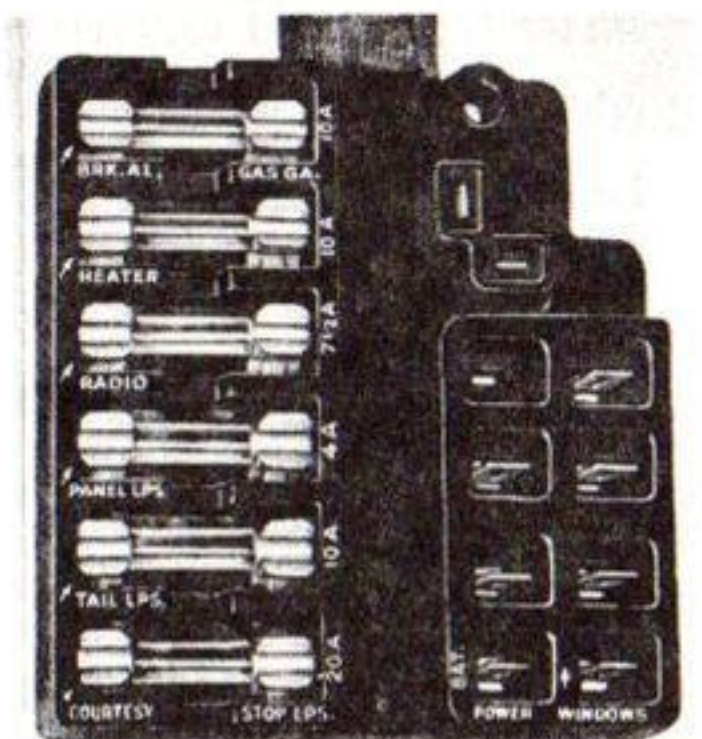
Three speed 2 pints
 Four speed 2½ pints
 Powerglide 9 quarts

Rear Axle 3.7 pints

FUSE AND CIRCUIT BREAKER DATA

Circuit	Ampere Rating	Circuit Breaker or Fuse
Headlamp, Headlamp Beam Indicator, and Parking Light. }	15 amp.	Circuit Breaker
Headlamp Door Motors.....	40 amp.	Circuit Breaker
Power Window Motors.....	40 amp.	Circuit Breaker
Parking Brake Alarm & Gas Gauge..	3AG/AGC 10 amp.	Fuse
Heater.....	3AG/AGC 10 amp.	Fuse
Radio.....	3AG/AGC 7½ amp.	Fuse
Instrument, Radio and Clock Lights.	3AG/AGC 4 amp.	Fuse
Tail Lamps.....	3AG/AGC 10 amp.	Fuse
Stop, License and Courtesy or Dome Lamp.....	SAE 20 amp.	Fuse

Junction Block—All fuses are in the junction block located on the fire wall just above the headlamp beam switch.



**LAMP
BULB
DATA**

	Candle Power	Number
Headlamp—Outer—high.....	37½ (Watts)	5¾" Sealed Beam
Outer—low.....	50 (Watts)	
Inner—high.....	37½ (Watts)	
Headlamp Beam Indicator.....	1	53
Parking and Directional Signal.	4-32	1034
Tail and Stop-Directional Signal	4-32	1034
Ignition Switch.....	1	53
License Plate Lamp.....	4	67

	Candle Power	Number
Instrument Panel.....	3	1816
Electric Clock.....	3	1816
Courtesy or Dome Lamp.....	6	90
Radio Dial.....	3	1816
Cigarette Lighter.....	1	53
Parking Brake Alarm Lamp...	—	257
Headlamp Motor Warning.....	—	257
Turn Signal Indicators.....	3	1816

CHEVROLET OWNER PROTECTION PLAN

The Chevrolet Motor Division considers it a most important obligation to offer each owner a suggested maintenance service which will relieve him of any anxiety and insure that his vehicle is regularly inspected and maintained.

Your Chevrolet dealer has presented you with a Chevrolet Owner Protection Plan Booklet. The Approved Maintenance and Lubrication Service items in this Plan Booklet have been worked out by Chevrolet service personnel and cover items which are the owner's responsibility to have checked, inspected,

adjusted and lubricated at recommended mileage intervals. All maintenance operations which are necessary at the varying mileages on a vehicle operating under normal conditions are included.

If the services are carried out at the prescribed mileage intervals, wear and owner expense will be kept to a minimum. Further services may become necessary as mileage accrues; however, the regular visit that you make to your Chevrolet dealer in following this Plan will point out desirable services as they become necessary.

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