

PREPARED AND PRESENTED

BY

CHEVROLET MOTOR DIVISION

GENERAL MOTORS CORPORATION

DETROIT 2, MICHIGAN

General Hints and Information on your 1951 Chevrolet

Second Edition

#### INTRODUCTION

This booklet has been prepared to introduce you to your 1951 Chevrolet. Each section covers basically the things you are interested in for the everyday operation of your vehicle, and are presented in such manner to give you the information you may require for pleasurable driving.

The subject index at the right

The subject index at the right is a ready reference to the key subjects and will enable you to find any subject covered in this booklet.

You have been provided with an Owners Service Policy which describes additional services to which you are entitled, a facsimile of this policy is shown on page 32

WARRANTY Inside hack cover

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For Your Convenience



### GITTON SWICE

The ignition switch is located at the right of the steering column between the windshield wiper knob and the choke knob and is a three position switch. There are two "off" positions, one to the right and one to

the left of the "on" (vertical) position and the key may be removed with the switch in any of these positions. When the ignition is turned off by turning switch clockwise, the key may be removed allowing ignition to be turned "ON" or "OFF" without use of key. When the ignition is turned off by turning switch counterclockwise and removing the key, the ignition is locked "OFF."

#### Series Of Carlotte

The starter control is of the push button solenoid type with the starter button located at the left of the steering column and the light switch knob. When starting, hold accelerator pedal down half-way while pressing starter button. Release the starter button as soon as the



engine starts and never press the button with the engine running. Should the engine become flooded, hold accelerator down to the toe-board and press starter button until engine starts.

On vehicles equipped with Powerglide, starter is inoperative unless selector lever is in "N" or "Park" position.

#### A STATE OF THE PARTY OF THE PAR

The choke control knob is located to the right of the ignition switch and is used to provide a richer fuel mixture to assist in starting a cold engine. Pull choke.knob out part or all way depend-



ing upon climatic conditions. This automatically opens the throttle to provide for smooth engine operation when choking is required.

# Wildshelf Wiper Tolling

The windshield wiper control knob is located to the left of the ignition switch. To operate wipers at variable speeds, turn this knob clockwise as required. A Chevrolet windshield washer can be installed which may be used to aid in cleaning the windshield when dirty or when smeared with road spray from passing cars. A button is provided in the center of the wiper control knob which, when depressed and then released, will cause water from washer to be sprayed on the windshield to assist wipers in cleaning.



## Tealight Ontro

A push-pull knob for headlight control is located at the left of the steering column. When the knob is pushed in against the instrument panel all lights are "OFF." When the knob is

pulled out to the first position, the parking lights, tail lights, license light and instrument panel lights are turned on. When the knob is pulled out to the second position the parking lights turn off and driving lights are turned on. Control of the driving lights is by a selector switch located on the toe-board to the left of the clutch pedal. Depressing this switch will change the driving light beam from traffic (lower) to country (upper) or vice-versa. When using the country (upper) beam for driving, a red beam indicator, located between the 40 and 50 on the speedometer dial, lights up. Never use this beam when other cars are approaching.

Instrument panel lights may be dimmed or turned off by rotating light control knob clockwise.

#### Dome Light

The dome light switch on all models except the Bel-Air and the Convertible is at the front of the dome light. Switch in the Bel-Air and Convertible is located on the front of the lower left rear quarter trim panel. The dome light in the convertible is inoperative unless head-lamps or parking lamps are turned on. Automatic door switches are used on both doors of Deluxe models only.



#### Parking Brake

The parking brake handle is an L-shaped handle conveniently located below the instrument panel and to the right of the steering column. To apply brake, which operates independently of the foot operated brake, pull handle

straight back. To release, simply rotate handle clockwise and push it in to its normal position.

NOTE: Be sure that the parking brake is completely released by pushing the handle in all the way.

#### Seat Adjuster

The front seat adjuster is located at the left end of the seat frame. With a light downward push on this fingertip control lever, the seat is released allowing a backward or forward motion of the seat assembly. Releasing pressure on lever locks the seat in the selected position



## Ventilating System

Control knobs for the all weather ventilating system, which permits controlled ventilation even under adverse conditions when windows must be closed, are located at the extreme right and left ends of the instrument panel. Either the right or left hand ventilator may be opened individually or both ventilators may be opened as desired by pulling knobs out.

NOTE: To keep out offensive odors and exhaust gases when traveling in congested traffic or when parked behind a car having its motor running, shut the outside air intake valves by pushing vent knobs in. Exhaust gases contain carbon monoxide. See Note on page 11.



#### Cigarette Lighter and Ash Tray

A tilt type ash tray is located at the right end of the radio grille on all DeLuxe models. The ash tray has a cigarette snuffer which is depressed for removal and emptying of tray. Directly below

the ash tray, on DeLuxe models only, is the cigarette lighter. The lighter is operated by pushing it in and when heated it automatically clicks out for use.

## Glove Compartment

The glove compartment is located at the extreme right of the instrument panel. The door of the glove compartment may be opened by pressing on the push button located at the upper edge of the door. To lock the glove compartment, insert key and turn one quarter turn. An automatic light on DeLuxe models,



provides illumination inside compartment when door is opened

## Rear View Mirror

The rear view mirror, which may be rotated on its mounting to accommodate all drivers and seat positions, is located near the top of the windshield division moulding on all models except the Bel-Air. The Bel-Air mirror is mounted on the windshield divider so that its position is just above the top of the instrument panel.

#### Sun Visor

The sun visors, two on DeLuxe models and one on Special models, are designed so they may be positioned to shut off the glare from the sun.

#### Speedometer

The speedometer located to the right of the steering column is of the circular type and registers both speed and cumulative mileage.





## Instrument Cluster

The instrument cluster located to the left of the steering column encloses the temperature gauge, fuel gauge, charge indicator and oil pressure gauge, reading clockwise from the lower left side.

## Temperature Gauge

This gauge shows the temperature of the cooling liquid in the engine. The needle should register at about the center mark except on long, hard drives in summer weather, when it may register close to the "H" mark.

#### Fuel Gauge

The fuel gauge is operated electrically and indicates the quantity of fuel in the tank only when the ignition is turned on. When the ignition is turned off, the pointer returns to the empty mark.

## Charge Indicator

This gauge shows only whether the battery is being charged or discharged. The generator is equipped with a regulator which regulates the amount of charge to fit the requirements of the battery at a given time.

## Oil Pressure Gauge

The oil pressure gauge should always indicate pressure while the engine is running. If no pressure is indicated, stop the engine immediately and have the cause investigated.



## Door Hold Open

A door hold-open device is incorporated in each door. When a door is fully opened, this device prevents it from closing of its own weight while entering or leaving

the car. Doors may be easily closed from the hold-open position by a firm push or pull, no release is required.

## Door Ventilator

The front door ventilators on Special and DeLuxe models and rear door ventilators on DeLuxe models, are operated directly by a combined lock and pull-to handle located on the base of the ventilator frame. A spring loaded pawl makes the lock positive and theft resistant. A spring loaded friction device in the ventilator lower pivot holds the ventilator open to any position selected.



## **Radio Control Panel**

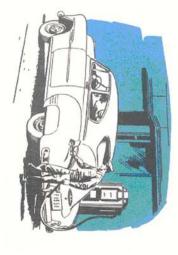
When vehicles are equipped with radios the dial is centered below the radio grille and mounted horizontally. The controls are mounted in the depressed panel below the dial. Two radio sets are available,

one which has manual tuning and the other having five selector buttons for rapid automatic station tuning.

## Heater Controls

When cars are equipped with the outside-air-type heater, the controls are mounted and designed to fit the instrument panel. The temperature, air and defroster knobs are mounted in the first three grooves on the left side of the radio grille. All controls are in the "off" position when raised to the top of the grille and are in the "on" position when pushed downward.

Your Everyday Service

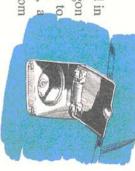


#### Gasoline

The Chevrolet engine is designed to provide its full complement of performance and economy utilizing the so-called "REGULAR" grades of gasoline.

## Gasoline Filler Cap

The gasoline filler cap is located under the lid in the left rear fender, except on the Station Wagon which has an exposed cap. Should you wish to take extra precaution against theft of fuel, a locking cap is available as an accessory from your Dealer.



#### Hood Lock

The hood release lever is located under the top grille bar, slightly to the left of the center of the hood. Lifting the lever slightly will release the hood lock and when raised further, it releases the safety catch. The hood can then be lifted to the open position and the spring loaded hood supports will assist in raising and hold hood open.

#### Engine Oil

Use of proper engine oil is of great importance in obtaining maximum performance and satisfaction from your car. See recommendation under "Lubrication" on page 22.



# **Engine Oil Level Rod**

The oil level rod is a bayonet type indicator located on the right side of the crankcase. This rod is marked "Full" and "Add Oil" and these notations have broad arrows pointing to the level lines. Check oil level each time gas is pur-

chased and maintain level between these two lines. Fill or add oil through filler cap hole on top of valve cover. Avoid overfilling as this will cause the oil to foam.

# Powerglide Transmission Oil Level Rod

The Powerglide transmission filler tube and oil level rod is located in the engine compartment on the right side just opposite the starting motor. This rod is marked "Full" and "Add 1 Qt." with arrows pointing to these two lines. Check oil level every 1000 miles with engine idling, transmission warm, parking brake set and control lever in "Neutral." Extreme care must be exercised to prevent dirt from entering filler tube when checking. See Lubrication section for filling instructions.

## Radiator Filler Cap

The radiator filler cap is located under the hood. The coolant should be checked every time gasoline is purchased and kept to a level one inch below the filler neck. Cars with Powerglide transmission have a pressure radiator cap to prevent coolant loss. When removing cap from hot engine, rotate to left to first stop, which is vented position, to relieve pressure in system. When pressure is relieved, turn cap again to left to remove. Turn cap all the way to the right when installing.

## **Keys and Locks**

Two identical keys are furnished with the car which operate the front doors, the ignition switch, the glove compartment and trunk locks.

Door locks have spring loaded doors over the rectangular key slot which seal

the keyholes securely. This key slot has a tab protruding from one side and care must be taken when inserting the key not to damage this tab.

As a protection against unauthorized persons securing the keys, the key number does not appear either on the key or the face of the locks, but on a small metal insert fastened in the key. Mark this key number on your Certificate of Title or Bill of Sale as soon as you take delivery of the car, and have your dealer knock the number insert out of the keys. For additional protection against loss of your vehicle, always lock the ignition and doors when leaving it unattended.

To lock the doors from inside, push down the locking button located on the bottom of the window opening of each door. To lock the car from outside, either of two ways may be used.



 With the door open push down the inside locking button and push the outside handle push button in while closing the door.

2. With the door closed, insert key in the lock of the front door handle and give the key a quarter of a turn.

# Sedan Rear Door Lock

A safety feature is incorporated in the rear door locks of all four-door sedans for the convenience of owners who have small children. This door lock incorporates a means of shifting the remote control link lever to provide free-wheeling on the inside or remote control door handle at the option of the owner. With the remote control link lever set in the free-wheeling position the rear doors cannot be opened from inside unless the locking button is "UP."

All four-door sedans have this lever set for positive action on these handles and may be changed to free-wheeling, upon request, by your local Chevrolet Dealer.



Your Chevrolet car has been designed to furnish you many thousands of miles of motoring pleasure.

In order to maintain its high standard of performance and efficiency, special care should be given for the first two thousand miles as to the speed at which the car is driven and also to lubrication.

The crankcase of the engine in this vehicle, as received by you, is filled with a light body "breaking-in" oil. USE THIS OIL ONLY DURING THE FIRST 500 MILES OF DRIVING.

Check the oil frequently during the first 500 miles and at the end of 500 miles, drain the crankcase—while hot—and refill—using the grade of oil recommended in "Engine Lubrication." Check oil level each time gas is purchased.

To properly break-in the moving parts of the engine do not drive faster than:

40 miles per hour for the first 100 miles

50 miles per hour for the next 200 miles

60 miles per hour for the next 200 miles

# Warning - Carbon Monoxide

Never start or run an engine in a closed garage. Avoid inhaling gases when any concentration of these is present in the air, i.e.,

in a garage, in congested traffic, or when stopped closely behind a vehicle with its motor running. Exhaust gases may have strong odors which normally should give warning of their presence. However, the exhaust gases from some vehicles may not be noticeable under certain conditions and the senses of people react differently. Exhaust gases contain a percentage of carbon monoxide which is a poisonous gas that, by itself, is tasteless, colorless and odorless.

## To Start the Engine

 Before starting engine make sure transmission shift lever is in neutral position.

NOTE: Starter on Powerglide equipped vehicles will not operate unless selector lever is in "N" or "Park" position.

- Depress the clutch pedal.
- 3. Turn "ON" the ignition switch.
- Hold accelerator pedal down halfway and press in on the starter button until the engine starts. Then release the button.

NOTE: Do not pump the accelerator pedal before or during the use of the starter as this will cause difficult starting.

5. Pull the choke knob out part or all the way depending on climatic conditions. As soon as the engine starts, push the choke knob in part way until engine idles smoothly. After engine has warmed up, push choke knob in all the way. If the engine is warm, it is not generally necessary to use the choke at all.

CAUTION: When starting a cold engine, it will be noted that the oil pressure gauge in the instrument cluster will register a high pressure. Allow engine to idle until engine warms up and the oil pressure gauge reading drops to approximately the center mark on the gauge.

6. In case the engine becomes overchoked or flooded at any time, be sure the choke button is all the way in then press the foot accelerator down fully and operate starter continuously until engine starts. This will eliminate further choking. If it becomes desirable or necessary to again choke the carburetor for starting follow the procedure in step 5.

## To Start the Car

## Synchromesh Transmission

The gearshift lever, mounted on the steering column, may be placed in any one of five positions — neutral, reverse, first, second or third. The operation of the gearshift lever in engaging the gears consecutively is as follows:

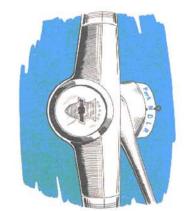


- consecutively is as follows:

  1. See that gearshift lever is in neutral position (lever may be raised up and down).
- 2. With clutch pedal depressed start engine.
- First speed—Depress clutch pedal and raise lever toward steering wheel and then move downward until it is fully engaged in first gear location; then gradually release clutch pedal.
- Second speed—Depress clutch pedal, push lever upwards, causing lever to cross through neutral moving away from steering wheel and engage second gear position. Release clutch pedal.
- Third speed—Depress clutch pedal, pull lever downward until lever has reached the end of its travel into third gear position. Release clutch pedal.
- Reverse—With car at a standstill, depress clutch pedal, raise lever, and push upward to engage reverse.

## Powerglide Transmission

Control of the Powerglide transmission is obtained by positioning the control lever mounted directly below the steering wheel. Cars equipped with the Powerglide transmission do not have a clutch pedal and the control lever may be placed in any position when the engine is idling by merely moving the lever. Stops have been placed at certain points in the lever travel so that it is necessary to raise the lever to place it in



certain positions. After a little experience driving the car, you will find that it is possible to select a range merely by "feel" and visual reference to the dial will not be necessary.

There are five positions available.

#### TAKK

This is the parking lock position and is to be used in conjunction with or instead of the pull-on parking brake. THIS PARKING LOCK MUST NEVER BE APPLIED WHEN THE CAR IS IN MOTION. The control lever must be raised to be placed in this position. Parking the car with the control lever in "D," "L," or "R" positions will not partially brake the car as it does when the Synchromesh transmission is left in "gear."

#### (C. 13)

This is the neutral position and is to be used when the car is standing still with engine running or when pushing or towing the car.

#### (T)

This range is used for all normal forward driving. After the engine has been started, place control lever in "D" position and depress accelerator. Nothing more needs to be done.

#### (L)

This range is to be used when the going is particularly tough, such as when in deep snow, sand or on long steep grades. To operate in this range, simply move the control lever to the "L" position and drive as before. This range may also be used to secure additional braking when going down long or steep grades. The shift from "D" to "L" or from "L" to "D" may be made while the car is in forward motion without changing accelerator position but should not be attempted while car speeds are over 40 M.P.H.

#### C. Han

This position is used when backing the car. To operate, bring car to a stop, raise and move control lever to the "R" position with engine idling then depress accelerator.

# Pushing Car to Start Engine

If it becomes necessary to push the car to start the engine, the control lever should be left in the "N" position until the car has reached an approximate speed of 15 M.P.H. Then place control lever in "L" position to crank engine. If the road is wet or icy resulting in poor traction, it may be necessary to push car until speed of 20 M.P.H. is reached. Then place control lever in "D" range. After engine starts, return lever to "N" position for warm up.

CAUTION: It is recommended that the car be pushed rather than to be towed, because when the engine starts with the transmission in "Low" or "Drive" range, it is apt to accelerate into the rear end of the tow car.

#### Driving Cautions

The following driving cautions should be observed when driving a car equipped with Powerglide transmission.

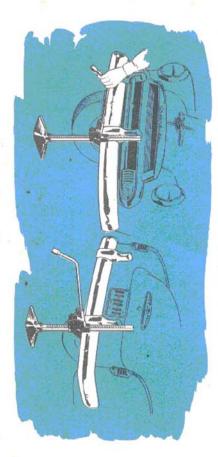
- Do not accelerate engine over 1000 RPM for over ten seconds at a time with the control lever in "Drive," "Low" or "Reverse" positions when car is stopped and brakes engaged.
- When stopped at a traffic light on an upgrade, do not hold car by accelerating engine. Use service brake.
- When driving on an extremely steep grade, shift to "Low" rather than try to climb the hill with control in "Drive" position.
- Do not shift from "Drive" to "Low" or "Low" to "Drive" at over 40 miles per hour.
- Do not shift into "Reverse" when the car is in forward motion
- Do not shift into "Park" position until car is brought to a complete stop.

#### General Information



## Use of the Jack

- 1. Set parking brake and block wheel opposite one to be removed.
- If rear wheel is to be removed, remove wheel shield on DeLuxe Models. Remove hub cap and loosen wheel nuts.
- Place jack base on ground so that upright column is on the outside of the bumper face bar.
- Draw jack body up to allow bumper to rest in jack seat and position as shown.
- 5. Move lever on side of jack housing to "UP" position, insert jack handle and raise jack until tire clears ground.
- 6. Remove wheel nuts and remove wheel.
- 7. In replacing either front or rear wheels, tighten wheel nuts snugly, shift lever on jack housing to "DOWN" position and lower jack until wheel touches ground. Then make certain that all nuts are drawn up tight, replace hub cap and remove jack.
- 8. If rear wheel shield was removed, replace wheel shield.



## **Rear Wheel Shields**

The rear wheel shields may be removed by reaching up under the shield to reach handle of lever, pushing it away from you to clear flange and then pulling straight down. To install this shield,



engage lug at lower rear corner in its bracket and, making sure that lever handle points straight down, push upper part of shield into place. Then move handle away from you and up, locking it behind lower flange of shield.

#### Anti-Freeze

When installing anti-freeze solutions, the quantity should be determined by the anti-freeze manufacturer's recommendation based on the cooling system capacity stated on page 30.

Chevrolet recommended anti-freeze compounds are those made from ethylene glycol base, denatured ethyl alcohol (ethanol) and methyl or wood alcohol (methanol) prepared by a reputable manufacturer and treated by them to reduce the rust-forming properties of water by the addition of an inhibitor in their product.

# **Draining Gooling System**

When draining the cooling system in cold weather to prevent freezing and possible cracked cylinder block, it is necessary to open drain cocks at radiator lower fitting and at left lower side of engine block at rear near exhaust pipe:

#### Care of Finish

Calcium chloride and other salts, road tar, excretion from insects, tree sap, chemicals from factory chimneys and other foreign matter may permanently damage the car finish. Frequent, regular washings and a thorough cleaning after exposure is recommended to prevent damage to the finish.

The chrome can be protected by frequent washing and, as a further precaution, it is well to treat the plated surfaces with wax. The wax used for polishing cars is very satisfactory. To apply, first wash with water, then dry with a chamois and apply wax with a clean soft

cloth. Finish by polishing with another clean cloth.

For chrome plated surfaces already damaged by rust, clean with a cleaning compound which your dealer can supply and then apply a protective wax coating.



#### Rear Window

The rear window in the Convertible is made of clear vinyl plastic and is retained in the top back curtain by zipper fasteners, one along the bottom and the other along the sides and top.

NOTE: For instructions on care and maintenance of the plastic rear window in your Convertible, be sure to read complete instructions given in the folding top operating instructions booklet which is in the Glove Compartment.

Fos







OVER INFLATION
Hard Ride-Poor Traction-Fabric BreaksBruises

UNDER INFLATION
Runs Hot-Loosens
Cords-Blowouts-Uneven Wear

PROPER INFLATION
Good Ride—Good Traction—Even Wear—More
Mileage

GET MAXIMUM SERVICE FROM TIRES—KEEP THEM PROPERLY INFLATED—USE AN ACCURATE GAUGE

# Extra Low Pressure Tires

Use Air Pressures As Indicated Below for Checking Proper Inflation

24 Lbs (Starting Pressure) *ulter* the car has been standing for three hours or driven less than a mile.

27 Lbs (City Pressure)

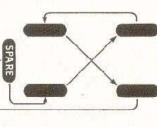
ufter driving the car
three miles or more below 40 miles per hour.

sure) 29 Lbs (Highway Prescar sure) after driving the e be- car three miles or more hour. above 40 miles per hour.

It is normal for air pressure to build up in a tire due to driving conditions. DO NOT LET AIR OUT OF TIRES TO REDUCE THIS INCREASE IN PRESSURE.

#### Equalize Wear on Tires

CHANGE TIRES TO POSITIONS SHOWN IN DIAGRAM AT RIGHT EVERY 4000 MILES. This change of position helps smooth out uneven wear on front tires and distributes the faster wear on the rear tires over all five tires.



#### Clean White Sidewalls

Use soap, warm water, and stiff brush to remove road grime and curb dirt from white sidewall tires. Use a fine grade of steel wool for severe cases. Do not use gasoline, kerosene or any oil product that will discolor the sidewalls or rot the rubber.

By comparing air pressure in all tires, any variation in pressures will be evident. To prevent flat tires, investigate and correct a continued loss of air in any tire.

## Chevrolet Radio

manual set, turns on the radio, with on push button set and right knob on in a clockwise direction of left knob SWITCH AND VOLUME CON further rotation increasing volume. TROL-The first portion of rotation



and affords the utmost in tuning selection MANUAL TUNING CONTROL-This knob on right of push button set and left on manual set, provides for manual selection of stations

speech clearly and distinctly to a gradual diminishing brilliance and will allow a full range from the "treble" position which reproduces accentuation of the low notes. knob controls the full tone range of your set. Rotating this knob TONE CONTROL-The eared knob behind the volume control

cedure which can be done with one hand as follows: matic tuning of five pre-selected stations. The tuning operation is PUSH BUTTON TUNING-The five push buttons are for the autowill go. Pre-selection of stations with the push buttons is a simple proaccomplished by merely pushing one of the buttons in as far as it

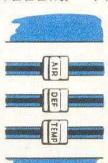
- (a) Turn on the receiver for ten minutes or longer to allow the to warm up from thirty to forty-five minutes various circuits to stabilize. In sub-zero weather allow the receiver
- Select your five favorite stations in order of their frequency. It is on the left push buttons, etc. suggested that they be arranged with the low frequency stations
- Push the button slightly to the right and pull out approximately one-half inch.
- (b) minimum of background noise Turn the manual control knob until the desired station is tuned back and forth until the station is tuned in clearly and with a in. To secure an accurate set up turn the manual tuning knob
- Push button in firmly to the end of its travel
- Repeat the same procedure to set up the remaining four buttons. above procedure A station setting may be changed at any time by following the

# **Automatic Heating Controls**

volume, velocity, and distribution of outside air. One compact unit provides effective all-year control of temperature

froster nozzles. volume of outside air delivered to the de-Moving the "Def" knoh down increases the

this point a 2-speed blower may be actuated to a maximum at the first position. Beyond position which will force air into car at by pushing knob down to second or third knob down opens the outside air intake duct The "AIR" knob has three positions. Moving



the car interior and the defroster nozzles. Moving the "Temp." knob down raises the temperature of the air delivered to

to the "off" position and pushing the left vent knob, if open, all the running, shut the outside air intake ducts by moving the "AIR" knob NOTE: To keep out offensive odors and exhaust gases when traveling in congested traffic or when parked behind a car having its motor way in. Exhausi gases contain carbon monoxide. See note on page 11.

# Some Average Control Settings for Winter Operation

LOW SPEED DRIVING-COLD AND DRY





LOW SPEED DRIVING-SLEET OR ICE

Temperature MED.-HIGH

HOH

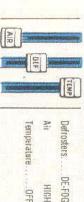
HIGH SPEED DRIVING-COLDER AND DRY

l'emperature....MED Defrosters OFF .LOW



## Summer Uses in Addition to Regular Ventilation

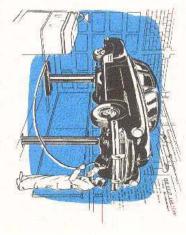
LOW SPEED DRIVING - WINDSHIELD FOGGED





## Lubrication

ENGINE—The crankcase of the engine, as delivered to you, is filled with a light body "breaking-in" oil. Use this oil during the first 500



miles. Check the oil level frequently and maintain the level between the "Full" and "Add Oil" lines on the oil level rod. If during the first 500-mile period it is necessary to add oil, use nothing heavier than S.A.E. 10-W Oil.

At the end of the first 500 miles drain the breakingin oil from the crankcase—when hot—and refill with the proper grade and type us indicated in the table below.

#### GRADES OF OIL

	22		1	-	
	Below minus 10° F.	3	As low as plus 10° F		TEMPERATURE
01	SAE	SAE	SAE	SAE	
SAE	10-W	10-W	SAE 20-W	20 or	GRADE OIL
5-W	plus			SAE	OIL
when	10%			20-1	
or SAE 5-W when available	SAE 10-W plus 10% kerosene			×	

NOTE: SAE 10-W plus 10% kerosene or SAE 5-W is recommended only for those territories where the temperature falls to and below minus 10°F, for protracted periods, If SAE 5-W is used, kerosene or other diluents SHOULD NOT BE USED."

#### TYPES OF OILS

Crankcase oils in service, unless protected against oxidation, may form sludge and varnish and under some conditions corrosive acids.

To minimize the formation of these harmful decomposition products and to supply the type of oil best suited for the different operating conditions, the oil industry markets several types of crankcase oils.

These types are defined by the General Committee, Division of Marketing, of the American Petroleum Institute as follows:

"Regular Type"—This term designates motor oil generally suitable for use in internal combustion engines under moderate operating conditions.

"Premium Type"—This term designates motor oil having the oxidation stability and bearing corrosion preventative properties necessary to make it generally suitable for use in internal combustion engines where operating conditions are more severe than regular duty.

"Heavy-Duty Type" – This term designates motor oil having the oxidation stability, bearing corrosion preventative properties, and detergent dispersant characteristics necessary to make it generally suitable for use in both high speed Diesel and gasoline engines under heavy-duty service conditions.

For maximum protection of your Chevrolet Engine under all driving conditions, it is recommended that Heavy-Duty Type Motor Oils be used. If the Heavy-Duty Type Oils are not available, Premium Type Oils may be used. Under no conditions, except for extremely light duty, should the Regular Type Oils be used.

#### DRAIN PERIODS

After the first oil change made at the completion of the first 500 miles, the oil should be changed thereafter every 2000 3000 miles. Adverse driving conditions may necessitate more frequent changes, and consideration should be given when driving in dust storms, cold or severe weather, or on very dusty roads

### Every 1,000 Miles

CHASSIS LUBRICATION—(See Lubrication Chart on Page 29.) STARTER SOLENOID—A few drops of engine oil should be used on fulcrum shifting mechanism lever. Do not oil solenoid plunger.

GENERATOR-A few drops of engine oil at both ends of generator.

SYNCHROMESH TRANSMISSION AND REAR AXLE—Lubricant level should be checked with unit at operating temperature. Lubricant should be level with bottom of filler plug hole. Hypoid lubricant, such as SAE 90 "Multi-Purpose" lubricant should be added if required.

Straight Mineral Oil Gear Lubricant must not be used in Hypoid Rear Axle but may be used in transmission.

NOTE: "Multi-Purpose" Gear Lubricants must be carefully compounded and of the latest non-corrosive type and of proven quality. The lubricant manufacturer must be responsible for the satisfactory performance of his product. His reputation is your best indication of quality.

POWERGLIDE TRANSMISSION—Check oil level with engine idling, parking brake set, transmission warm and control lever in "N" position. If necessary, add only "Automatic Transmission Fluid Type A" bearing an AQ-ATF number. This oil is available at all Authorized Chevrolet Dealers and Oil Company filling stations in sealed containers. Extreme care must be exercised to prevent dirt from entering the filler tube when checking.

STEERING GEAR—Filled with an all-season lubricant. Check level and fill to level of filler plug hole when necessary using steering gear lubricants. "Multi-Purpose" gear lubricant as recommended for rear axle and transmission may be used.

THROTTLE CONTROL LINKAGE-A few drops of engine oil. Do not oil carburetor linkage.

DISTRIBUTOR-Lubricant cup located on side of housing is filled with chassis lubricant. Turn cup down one full turn every 1000 miles.

BRAKE MASTER CYLINDER—Maintain level ½" to 1" below top of filler opening. Use G.M. Hydraulic Brake Fluid, Super No. 9 as required.

HOOD LATCH MECHANISM-Light engine oil

DOOR LOCK BOLTS AND STRIKER PLATES—Use a light oil. Apply a few drops to lock bolt roller and light film to striker plates.

DOOR DOVETAIL BUMPERS AND WEDGE PLATES-Apply light film of light oil.

LOCK CYLINDERS-Lubricate with powdered graphite.

REAR CCMPARTMENT LID LOCK MECHANISM - Lubricate moving parts with cup grease.

BATTERY-Fill to 1/4" above plates with distilled water. Do not overfill.

RADIATOR-Maintain coolant level 1" below top of tank.

SHOCK ABSORBERS-Scaled type shock absorbers are used and require no further maintenance other than replacement if necessary.

## Every 2,000-3,000 Miles

ENGINE CRANKCASE—Drain and refill using lubricants as recommended on chart on page 22. Flushing the crankcase with oils or solutions other than a good winter grade (S.A.E. 10-W) engine oil is not recommended. Use three quarts of S.A.E. 10-W oil and idle the engine at 1000 R.P.M. (equivalent to 20 M.P.H. in Hi gear) until oil is hot. Then drain immediately and fill with the correct seasonal grade of engine oil.

AIR CLEANER—The filter element should be washed every 2000 miles or oftener, as required, with kerosene and reoiled using engine oil. If oil bath cleaner is used, clean filter element and oil reservoir and refill reservoir with 1 pint SAE 50 engine oil or lighter grade in winter.

#### Every 3,000 Miles

SPARK PLUGS-Remove, clean and regap plugs to .035".

#### Every 4,000 Miles

TIRES-Rotate tires as indicated on page 19.

#### Every 5,000 Miles

DISTRIBUTOR—Remove distributor rotor and place a few drops of SAE 10 engine oil on felt wicking in top of cam. Apply a small amount of petroleum jelly on distributor cam surface by holding a clean cloth which has been soaked in jelly against it while cranking starter.

## Every 10,000 Miles

FRONT WHEEL BEARINGS—Remove front wheel hub and drum and clean bearings. Repack hearings with high melting point grease. Do not pack hub between inner and outer bearing assemblies or the hub cap. Reinstall wheel, hub and drum and adjust.

FRONT WHEEL BEARINGS-ADJUST-Take up on spindle nut, using an 8" wrench, until wheel is somewhat hard to turn by hand while rotating wheel to seat all parts. Back off adjusting nut 1/12 turn to point where slot in nut and hole in spindle align and install cotter pin.

BRAKE AND CLUTCH PEDALS—These pedals are lubricated at factory and should require no further lubricant. If pedal operation becomes sticky remove plug, insert lubrication fitting and fill reservoir with chassis lubricant. Remove lubrication fitting and replace plug.

STEERING COLUMN SYNCHROMESH GEARSHIFT CONTROL—This mechanism is lubricated at factory and should require no further lubricant. If shifting effort becomes sticky, remove cap from gearshift control box and fill box with a soft smooth grease.

REAR AXLE AND SYNCHROMESH TRANSMISSION—Seasonal changes of the lubricant are not required. When refilling is necessary, refill using a Hypoid lubricant such as SAE 90 "Multi-Purpose" gear lubricant. Straight mineral oil gear lubricant must not be used in Hypoid Rear Axle but may be used in the transmission.

#### Every 25,000 Miles

POWERGLIDE TRANSMISSION-Drain and refill. Before draining, warm up transmission. Remove oil sump drain plug and converter drain plug. After complete draining of oil sump and converter, replace drain plugs.

Make initial fill using three (3) quarts of "Automatic Transmission Fluid Type A" bearing an AQ-ATF number. Start engine and allow it to idle in neutral with hand brake set. Complete refilling with six (6) quarts of oil. After filling, allow engine to idle for a few moments, then check to see that the oil level is up to the full mark on the dip stick.

# Con Control of the Co

The table below indicates some of the things which should be done at regular mileage intervals.

25000	15000	14000	13000	12000	11000	10000	9000	8000	7000	6000	5000	4000	3000	2000	1000	500	Milonge
*	*	*	*	×	*	*	×	*	¥	×	*	*	*	*	*		Lubri- cate Chassis
*	To.	*	TAX-CON	*		*		*		*		*		*		*	Change Oil
*		*		*		*		*	COL	*		*		*			Clean Air Cleaner
	*			*			*		i ita	*			*				Clean Spark Plugs
				*		110		*				*		1 .8			Cross Change Tires
*	*					*					*						Brace Adjust- ment
*	*					*					*			12.			Tune Engine
*	*					*					*						Inspec- tion by Dealer
	1					*											Front Wheel Bearings
*												1					Automatic Transmis- sicn Oil

The following operations should be done as indicated:

*		*	Check Air Add Anfi- In Tires Freeze
		*	Check C Battery
Fall	Spring	Weekly	Perind

## Parameter States of Parame

6	S	4	w	N	
6. Kingpin (2 each side)	5. Front Wheel Bearings—High Melting Point Front Wheel Bearing Lubricant	4. Upper Control Arm—Rear (2 each side) Chassis Lubricant	3. Upper Control Arm—Front (1 each side) Chassis Lubricant	2. Lower Control Arm—Rear (2 each side) Chassis Lubricant	1. Lower Control Arm-Front (1 each side) Chassis Lubricant
	10,000 miles	1,000 miles	1,000 miles	1,000 miles	1,000 miles

Steering Gear-Add Gear Lubricant When Necessary Chassis Lubricant

00

Tie Rod (2 each side)

Chassis Lubricant

1,000 miles

1,000 miles

1,000 miles

Steering Column Gearshift Control (See Page 26) 10,000 miles Air Cleaner (See Page 25) 2,000 miles

10.

9

Transmission (See Page 24 and 26)

13. Generator (2 Oil Cups) 12. Rear Axle (See Page 24 and 26)

14. Distributor (1 cup) 15. Clutch and Brake Pedal Shaft (See Page 26) Light Engine Oil Chassis Lubricant (See Page 24 and 25) 1,000 miles ,000 miles

10,000 miles

16.

Throttle Bell Crank

 Solenoid Linkage (See Page 23) Steering Connecting Rod (1 each end) Light Engine Oil

180

1,000 miles

1,000 miles 1,000 miles

1,000 miles

19. Steering Idler and Third Arm (2 places)

Chassis Lubricant

Chassis Lubricant

5 á 14 17 WB CL EO CI CL CL EO CL CL CL FO 13 CL a α WB CL CL CL SG CL CL EO

LUBRICATE EVERY 1000 MILES

LUBRICATE EVERY 2000 MILES

LUBRICATE EVERY 10 000 MILES

. 29 .

AR
SERIAL
NUMBER

Stamped on plate attached to left hody hinge pillar

#### ENGINE NUMBER

Stamped on boss on right center side of engine block to the rear of ignition distributor.

#### TIRE PRESSURES (cold)

CAPACITY CHART	Rear 30 lbs.	Front	6.70x15-6 Ply-Station Wagon and Scdan Delivery	7.10x15-4 Ply-Front and Rear 24 lbs.	6.70x15-4 or 6 Ply-Front and Rear 24 lbs.		6.70x15-4 or 6 Ply-Front and Rear  7.10x15-4 Ply-Front and Rear  6.70x15-6 Ply-Station Wagon and Scdan Delivery  Front  Rear  CAPACITY CHAPT  24 lbs.  24 lbs.  25 lbs.  30 lbs.
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## Transmission-Synchromesh

Cooling System ...

16 gals. ...15 qts.

Gas Tank

Differential 3½ pts.	***************************************		Differential
9 qts.	1C	-Automat	

Parking Lamps

Tail Lamps

Thermal Circuit Breaker

												LA
Glove Compartment	Clock	Speedometer	Instrument Cluster	Headlamp Beam Indicator	Ignition Lock Lamp	License Plate Lamp	Stop Lamp (Sta. Wagon & Sed. Del.)	Tail Lamp (Sta. Wagon & Sed. Del.)	Tail and Stop Lamp	Parking Lamp	Headlamp 4	LAMP SPECIFICATIONS
2	2	2	2	H	1	3	21	w	3-21	3	45-35 Walls	(andle Power
55	55	55	55	51	51	63	1129	63	1154	63	Scaled Beam	Viimher

33/11	31/2"	Std. Engine
3154 B"	39/16"	Engine with Automatic Trans.

00 UN 00

LICENSE DATA

Dome Lamp (Bel Air) Dome Lamp (Convertible) Dome Lamp (except Convertible

and Bel Air)

Glove Compartment

Stroke (Inches) Bore (Inches)

CLEARANCES Valve Clearance Intake (Hot)	WHEELBASE	Piston Displacement (cu. inches) SAE Horsepower Rating Firing Order Max. Brake Horsepower
.006"008	115"	Std. Engine 216.5 29.4 1-5-3-6-2-2
.006"008" No adjust.	115"	Std. Engine with Engine Automatic Trans, 216.5 235.5 29.4 30.4 1-5-3-6-2-4 1-5-3-6-2-4 92 105

	FUSES	Intak Exhan Spark P Distribu Clutch 1	Valve Clearance
	CAPACITY	Intake (Hot) Exhaust (Hot) Spark Plug Gap Distributor Point Gap Clutch Pedal Clearance	learance
End	NUMBER	.006"008" .013"015" .035" .018"024" 3/" to 1"	
of A-lead at acces-	LOCATION	08" No adjust. 15" No adjust. 035" 24" .018"024"	

	Transmin
	Headlamas
14 AMP 147685 On back of switch	Defroster
	Heater and
14 AMP 147685 sory junction block	Radio

Instrument Lights is eliminated. breaker opens and closes rapidly thus reducing current sufficiently to protect the wiring from damage. This action continues until the cause When the current load is too heavy, due to a short circuit, the circuit headlamp, tail lamp, parking lamp and instrument lamp circuits. THERMAL CIRCUIT BREAKER-Eliminates necessity of fuses in

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flammable hydrogen gas when charging and continue to do so for some time after receiving a steady churge. CAUTION: Electric storage batteries give off highly in-

a static charge causing a spark in the vicinity of the battery. A long bumper and the ground should be made to remove the possibility of metal bar or a metal chain of sufficient length will accomplish this doing any work around a battery a metallic contact between the car near the battery, particularly in the vicinity of the vent caps. Before Under no condition should an electric spark or open flame be allowed

# Owner Service Policy

Upon delivery of your Chevrolet, you received an Owner Service Policy from your Chevrolet dealer. Please read it carefully.

Under the terms of this policy you are entitled to receive, from any Chevrolet dealer in the U.S.A. or Canada, an inspection and adjustment, on a no charge basis, if the policy coupon is presented within 1500 miles of vehicle operation.

Any Chevrolet dealer in the U.S.A. or Canada is authorized to replace, without charge for material or labor, any parts found to be defective under the terms of the Chevrolet Factory Warranty.

Always keep this Service Policy with your car during the Warranty period as it serves to introduce you to any Chevrolet dealer.



2. Use of theney Service Policy... The Owner Service Policy unroduces the owner to all amborized Chavoriet Service flations and entitles the owner to resolve service in accordance with the terms of the Policy. The owner should entry this Policy in the vehicle at all times.

3. Installation of Parts Farntshed Under Warrasty ... Parts supplied under the manufacturer's warranty will be mailfed by any Chewolel detter in the United States or Canada without any charge for labor. The manufacturer's warrarty is set forth at length in the Owner: Manual.

1. 1000-Mile Adjustment... The attached coupon, when signal by the Selling Dealer, sutiles the owner to the inspection and adjustments as listed on the back of seld coupon. These services are to be given free by any Chevrolet dealer in the United States of Canada upon presentation and surrender of the coupon.

6. Towardat Printings . . . Upon presentation of this Policy by the owner when thuring, any Authorized Chevrelet Service Station in the United States in Canada will perform the services is authorized in paragraphs three, four and the regardless of where the vehicle may have been purchased.



# **Nanufacturer's Warranty**

It is expressly agreed that there are no warranties, expressed or implied, made by either the Dealer or the Manufacturer on Chevrolet motor vehicles, chassis or parts furnished hereunder, except the Manufacturer's warranty against defective materials or workmanship as follows:

"The Manufacturer warrants each new motor vehicle, including all equipment or accessories (except tires) supplied by the Manufacturer, chassis or part manufactured by it to be free from defects in material and workmanchip under normal use and service, its obligation under this warranty being limited to making good at its factory any part or parts thereof which whalt, within ninety (90) days after delivery of such vehicle to the original purchaser or before such vehicle has been driven 4,000 miles, whichever event shall first occur, he returned to it with transportation charges prepaid and which its examination shall disclose to its satisfaction to have been thus defective this warranty being expressly in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on its part, and it neither assumes nor authorizes my other person to assume for it any other liability in connection with the sale of its vehicles.

"This warranty shall not apply to any vehicle which shall have been repaired or altered outside of an authorized Chevrolet Service Station in any way so as in the judgment of the Manufacturer to affect its stability and reliability, nor which has been subject to misuse, negligence or accident."

The Manufacturer has reserved the right to make changes in design or add any improvements on motor vehicles and chassis at any time without incurring any obligation to install same on motor vehicles and chassis previously purchased

## Battery Warranty

To receive the full benefit of the warranty as given by the manufacturer of the battery, register it with your nearest Delco Battery service station. Your Chevrolet dealer will be glad to handle this registration for you.

## lire Warranty

The tires that came with your car are guaranteed by the tire manufacturers, or his agent, according to the standard Tire Manufacturers Warranty.