# 1964 OWNERS GUIDE

#### A WORD FROM CHEVROLET . . .

This Owners Guide contains important information regarding the operation and maintenance of your Corvair.

In order to obtain maximum enjoyment and usage from your car, we suggest that you familiarize yourself with the contents of this booklet and follow the recommendations outlined.

Your Chevrolet dealer has the trained personnel and specialized equipment to properly service your Corvair. Have him inspect your car and perform any maintenance or adjustments required.

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

CHEVROLET MOTOR DIVISION . GENERAL MOTORS CORPORATION

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

FIRST EDITION

Page

#### YOUR CORVAIR'S FIRST FEW HUNDRED MILES OF DRIVING

Sound design and precision manufacturing methods will permit you to operate your new Corvair without adhering to a formal "break-in" schedule. However, during the first few hundred miles of driving you can, by observing a few simple precautions, add to the future performance and economy of your car.

It is recommended that your speed during the first 500 miles be confined to a maximum of 60 MPH, but do not drive for extended periods at any one constant speed, either fast or slow. During this period, avoid full

throttle starts and unnecessary, quick abrupt stops.

Gentle braking during the first few hundred miles of operation will result in longer brake life and better future performance. Avoid unnecessary, hard stops especially during the first 200 miles of operation since brake misuse during this period will destroy much future brake efficiency.

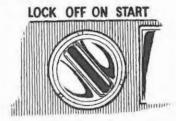
Always drive at a moderate speed until the engine has completely warmed up.

#### DRIVING FOR ECONOMY

Proper maintenance and wise operation will combine to help you achieve maximum fuel ecanomy with your Corvair. Your Authorized Chevrolet Dealer can properly tune and maintain your cor but wise operation is your responsibility. Give the car sufficient worm-up time, do not make "Full Throttle" starts or unnecessary skidding stops, and drive at reasonable speeds and as steady as traffic permits to gain the benefits of all the economy built into your Corvair.

CAUTION: Carbon monoxide is a poisonous gas produced by the engine of any car. It is odorless, so you connot detect its presence. Be safe. Never stort or run engine in a closed garage, and do not sit in a parked car with engine running unless windows are open.

#### **IGNITION SWITCH**



START—Used only when starting engine. When released, switch returns to ON.

ON—For normal operation after engine has been started.

OFF-Turns off engine and accessories.

LOCK — Same as OFF except that switch cannot be moved into or out of this pasition without ignition key. Always switch to LOCK and remove the key when leaving your car unattended.

NOTE: Key connot be removed from switch when in OFF position, thus guarding against accidentally leaving switch OFF but not locked. The key may be removed when the switch is in ON position and the switch may then be actuated to OFF and START positions.

#### STARTING

POWERGLIDE—Place control lever in N position.
 The engine will not start with the transmission in gear.

MANUAL TRANSMISSION—Place gearshift control lever in neutral, and depress clutch pedal ta the floor.

 Depress accelerator pedal part way and hold. In extreme cold weather (0°F. and below), depress accelerator pedal twice, then hold pedal part way down during starting.

Turn ignition switch to START and release as soon as engine starts.

4. "FLOODED" ENGINE—Depress accelerator pedal to floor and hold while cranking engine. Do not "pump" accelerator pedal when engine is "flooded".

#### WARM-UP

Never race the engine or drive at high speeds until the engine has had a chance to warm up. Always drive at moderate speeds for several miles, especially in cold weather. Failure to allow sufficient warm-up time causes much unnecessary wear to the engine. Also, excessive speeds before axle and transmission lubricant becomes warmed up can cause harm to these parts.

# DRIVING WITH THE MANUAL TRANSMISSIONS

The three-speed and optional four-speed transmissions are operated in basically the same manner. Shift patterns differ, of course, as illustrated in the two illustrations on page 5.

1st GEAR (LOW)—Depress clutch pedal, shift into 1st gear, slowly release clutch pedal while pressing on accelerator. As car gains speed, depress clutch pedal, release accelerator and move gearshift into 2nd gear.

2nd GEAR—Release clutch pedal and depress accelerator as above as car gains speed, then, in same manner

as before, move gearshift lever into 3rd gear.

3rd GEAR (HIGH)—Slowly release clutch pedal and depress accelerator pedal. This is the cruising gear for all normal driving with the 3-speed transmission. With the 4-speed transmission 3rd gear will provide more response and higher performance for driving in heavy traffic.

4th GEAR (HIGH—4-speed transmission only)
Shift into 4th gear in the same manner for normal cruising with the 4-speed transmission.

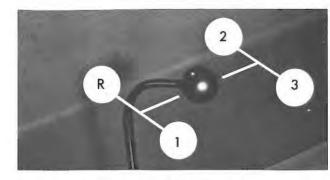
NOTE: Whenever the vehicle begins to labor in any gear, depress the clutch pedal and shift to the next lower gear.

TO STOP—Release the accelerator and depress the brake pedal. As car slows down, depress the clutch pedal and move the gearshift lever into neutral.

NEUTRAL-For use when starting or idling engine.

REVERSE—Operate as for 1st gear but always at a slow speed.

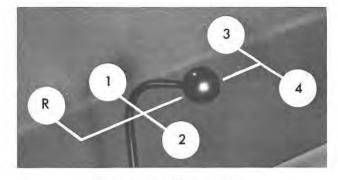
TOWING—Attaching points for lifting and towing are located in the front and rear bumper brackets.



Three Speed Shift Pattern

#### **PUSHING TO START**

- Turn on key and depress clutch pedal.
- Place gearshift lever in neutral position until car speed reaches approximately 15 mph.



Four Speed Shift Pattern

- Move shift lever to 3rd position and slowly release clutch pedal.
- Never attempt to start the car by towing.

#### DRIVING WITH THE POWERGLIDE TRANSMISSION

The optional Powerglide transmission is a completely automatic transmission which replaces the standard clutch and transmission. After starting the engine with the selector lever in N (neutral) position, merely select the range desired and depress the accelerator. The Powerglide transmission will do the rest.

With lever in D position the transmission starts in automatic low gear and will shift to cruising gear of some point between approximately 12 and 50 mph, depending on the accelerator position. Thus, a slow start with a steady, gradual increase of pressure on the accelerator pedal will enable the transmission to shift into the

more economical cruising gear in the shortest possible time. Hard acceleration for fast starts will cause the transmission to remain in low gear for a considerably longer period.

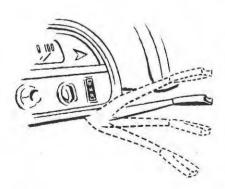
When driving at speeds below 45 mph, the transmission may be shifted back into low range for extra acceleration for passing by depressing the accelerator pedal fully. The transmission will automatically shift back into

cruising gear when the accelerator pedal is momentarily released.

#### **PUSHING TO START**

- Turn on key and move selector lever to neutral. At 20 to 25 mph move lever to L.
- When engine starts, move selector lever to D.

NOTE: Never tow to start.



#### OPERATING YOUR POWERGLIDE TRANSMISSION

OPERATION	USES
For Backing Car (From Stopped Position)	
For Starting Engine (Brakes Applied)	NORMAL DRIVING RANGE
For all Forward Driving. Step hard on accelerator for extra acceleration below 45 mph.	
For Hard Pulling at Low Speeds, Climbing, or Descending Steep Grades and for additional engine braking below 40 mph.	SAND, SNOW, MUD OR ON STEEP GRADES
	For Backing Car (From Stopped Position)  For Starting Engine (Brakes Applied)  For all Forward Driving. Step hard on accelerator for extra acceleration below 45 mph.  For Hard Pulling at Low Speeds, Climbing, or Descending Steep Grades and for

#### TOWING

- Place selector lever in neutral.
- If transmission or axle are malfunctioning, tow with rear wheels raised.
- When towing any vehicle on its front wheels, the steering wheel should be secured to maintain a straight forward position.
- Never tow faster than 50 mph.
- Attaching points for lifting and towing are located in the front and rear bumper brackets.

#### ROCKING CAR

When stuck in mud, sand or snow, you may rock the car by depressing the accelerator slightly and shifting the selector lever between R and D. Avoid excessive engine speed while performing this operation.

#### PARKING CAR

It is important that when your Corvair is parked the parking brake be fully engaged. Do not count on the

transmission to hold the car. Always engage the parking brake when parked.

#### POWERGLIDE DRIVING CAUTIONS

- Always engage parking brake when parked.
- 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.
- Use low position for hard pulls at low speed, climbing or descending steep grades and for push starting.
- Always stop car before shifting to reverse.

#### DRIVING WITH POSITRACTION REAR AXLE

The Positraction rear axle gives you constant driving force on both rear wheels; especially helpful in the winter and during other slippery driving conditions. In normal use, 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 to gain maximum traction.

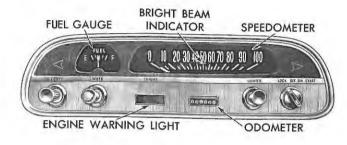
#### INSTRUMENTS

All driving instruments are grouped in the instrument cluster which is located immediately in front of the driver to provide quick reading and maximum convenience and accessibility. The TEMP-PRESS and GEN-FAN indicators provide important information concerning the condition of the engine and should be observed regularly during operation of the car. The information on these pages will help you understand the operation of these instruments. The illustrations here and on page 10 will acquaint you with the instrument cluster and the instrument panel as a whole.

#### FUEL GAUGE



This electrically operated gauge accurately indicates the amount of fuel in the fuel tank only when the ignition switch is in the ON positian. When the ignition is "off", the indicator pointer will not necessarily return to the empty (E) mark, but may stop



at any point on the gauge. Therefore, always be sure that the ignition switch is "on" before checking the fuel gauge.

#### SPEEDOMETER

Conveniently located in the instrument cluster directly ahead of the driver, the speedometer shows at a glance the speed of the car in miles per hour. The odometer, centered directly below the speedometer dial registers accumulated vehicle mileage.

#### TEMP-PRESS AND GEN-FAN INDICATORS

These indicators provide a check on the operating condition of the engine and the generator. Both indicators should light with the ignition switch ON before starting the engine and should go out after the engine is started. The lights should remain out while engine is operating, except the GEN-FAN indicator may flicker when engine is idling.

CAUTION: If either of these indicators light while car is being driven, immediately follow the procedure outlined under "EMERGENCY OPERATING INSTRUCTIONS," so car may be driven to the nearest service facility.

#### **EMERGENCY OPERATING INSTRUCTIONS**



(To be followed if either TEMP-PRESS or GEN-FAN indicators light while car is being driven.)

 Set heater FAN and HEAT cantrols to full "ON" and AIR controls to "OFF" positions.

(If equipped with air conditioning, turn air conditioning FAN switch to OFF.)

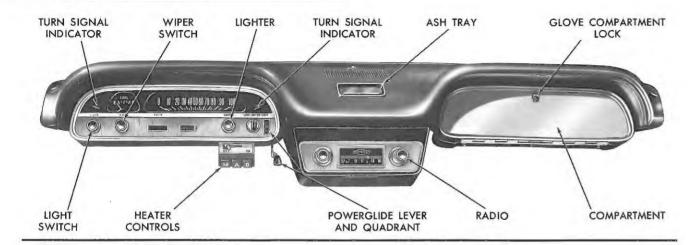
NOTE: After setting the heater controls, leave them in that position until cause of trouble is corrected.

- Stop the car as soon as driving conditions permit. Turn ignition key to OFF to stop engine but turn key back to ON so heater blower will continue to cool engine.
- 3. Check for broken fan belt or belt off pulleys or engine low oil level. If only GEN-FAN indicator is lighted, belt is not broken or off pulleys and engine oil level is satisfactory, cor can be driven at slow speeds; however, generator must be checked and serviced as soon as possible.
- 4. If trouble is found to be a broken fan belt or belt off pulleys, wait approximately five minutes, start engine and drive car at no more than 25 miles per hour until TEMP-PRESS indicator comes on; then repeat Step 2.

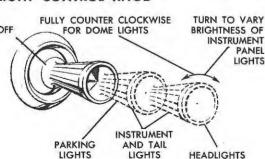
NOTE: The GEN-FAN indicator will stay on until fan belt is installed.

Repeat Step 4 as necessary until facility is reached where fan belt can be installed.

#### INSTRUMENTS AND CONTROLS



#### LIGHT CONTROL KNOB



The three-position light switch is operated as shown. Turn the knob to vary the brightness of the instrument lights. Turn the knob fully counterclockwise past the "detent" to turn on the dome light. The headlamp and parking lamp circuits are protected by a circuit breaker. An overload condition will cause the headlights to "flicker" on and off. If this flickering condition is experienced, the head lamp circuit should be checked by your Authorized Chevrolet Dealer.

#### DIMMER SWITCH

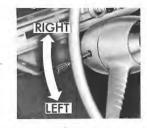




The foot button switches the headlights between "high" and "low" beam. The red "high" beam indicator will be lighted when the headlights are on "high" beam. Always dim the lights when approaching oncoming cars.

#### TURN SIGNAL

The turn signal lever should be moved UP to signal a right turn or DOWN to signal a left turn. The green turn signal indicators in the instrument panel will signal the direction as will the front and reor turn signal lamps. When the turn is completed, the lever will automatically return to neutral position.



Get into the habit of turning on the signal well in advance of where you plan to turn, other drivers will appreciate your consideration.

#### LIGHTING SYSTEM TROUBLE CHECKS

- If headlights flicker, your Authorized Chevrolet Dealer should be called upon immediately to correct the overload condition
- If the tail light fuse blows out, the instrument panel lights will also be inoperative. Check both the instrument panel fuse and the tail light fuse. (See Specifications.)
- If, when signalling a turn, the green turn signal indicator comes on but does not flash, a burned out front or rear turn signal lamp on that side or an im-

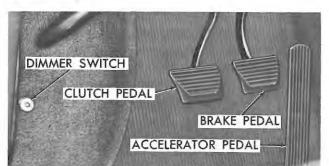
- proper flasher (3-bulb instead of 2-bulb flasher) is indicated.
- If the green turn signal indicator comes an and stays on but does not flash when signalling a turn in either direction, and no "clicking" is heard, replace the flasher.
- If flasher clicks but the green turn signal indicator does not operate, replace the indicator bulb.
- A series-type, 2-bulb flasher is standard equipment on Corvairs. Always replace with the same type flasher.

#### FOOT CONTROLS

Foot controls consist of the dimmer switch (the operation of which is covered on page 11), the clutch pedal (manual transmissions only), the brake pedal and the accelerator pedal.

#### CLUTCH PEDAL

The operation of the clutch pedal has been fully covered under "Driving with the Manual Transmissions" on page 4. Its operation is the same whether your car is equipped with the 3-speed or the 4-speed transmission. Excessive clutch wear can be caused by letting up the clutch abruptly rather than smoothly, and by "riding" the clutch—that is, letting your foot rest on the clutch pedal while driving.



#### BRAKES

The self adjusting brakes usually adjust themselves as necessary. Should brake pedal travel become excessive, drive the car forward and backward several times applying the brakes to stop after backing. Pedal travel should return to normal after several reverse stops

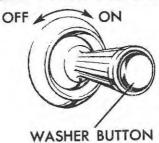
The brake pedal should have a hard firm feel when applied. If pedal feel becomes soft or spongy the brakes are in need of service

Optional metallic brake lining will require more pedal pressure to stop the car when the linings are cold than will conventional brakes. This condition will exist only until several stops are made so the linings warm up.



Pull the parking brake lever to engage the brake. The lever will remain in the applied position until released. To release, pull the handle taward the steering wheel, depress the "trigger" and allaw the handle to return to the released position. Always engage the parking brake when parked.

#### WINDSHIELD WIPERS AND WASHERS



The single-speed (or optional two-speed) parallel acting wipers are operated by means of the wiper control knob on the dash. Turning this knob clockwise turns on the wiper motor. The optional two-speed wipers have three switch positions, "Off," "Low" and "High." A fully counterclockwise turn of the knob turns off either wiper.

Exposure to the "elements" tends to "wear out" the rubber in the wiper blades. Check the blades periodically and replace them whenever they show signs of streaky or otherwise poor wiping action.

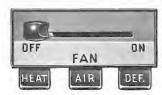
Pressing once on the accessory windshield washer button will cause the washer to squirt a measured amount of water or other cleaning agent onto the glass and will at the same time turn on the wiper. The wiper must then be manually turned off, when the washing process

is completed, by means of the wiper control knob.

Water or cleaning agent needed for operation of the accessory windshield washers is carried in a plastic water jar attached to the dash ponel within the luggage compartment. Keep the washer jar filled to a level 2 inches below the top of the jar with a suitable solvent. Windshield Washer Anti-Freeze and Solvent, G. M. Part No. 988299, is recommended for use in the Corvair windshield washer jar. NEVER USE ANY SOLVENT OR ANTIFREEZE SOLUTION WHICH CONTAINS METHANOL. In the winter, fill the washer jar only ¾ full to allow for expansion if the solution freezes. In freezing weather, pre-warm the windshield using the heater defrosters before using the washers.



#### DIRECT AIR HEATER



The Direct Air Heater uses engine cooling air to heat the interior of the car. Operation of the controls is given below.

FAN-Controls blower speed.

Blower must not be operated unless HEAT or AIR lever is depressed.

AIR—Controls the amount of moderately heated air presented to the heater system.

HEAT-Controls the amount of hot air to the system.

NOTE: When shutting off either of the above control levers, pull fully up until the lever snaps into the latch position.

DEF-Diverts heated air to the defroster outlets.

#### OPERATION FOR MAXIMUM COMFORT

- MINIMUM HEAT REQUIREMENTS—During spring and fall in areas where climatic conditions are less severe, depress the AIR lever only as required for your comfort.
- MEDIUM HEAT REQUIREMENTS—Depress the AIR lever all the way down, then depress the HEAT lever as

required. This will control the flow of mixed air (moderately heated and hot air) necessary for temperature control and provide definite variation of air temperature.

 MAXIMUM HEAT REQUIREMENTS—Depress HEAT and AIR levers to extreme down position. If heat becomes excessive, pull up HEAT knob to desired position.

#### **Heater Operating Tips**

The Direct Air Heater receives oir from the air inlet lauvers in the engine. Clean snow from this opening and surrounding areas before operating the heater.

Operate the heater for several minutes before turning on the defroster. This will clear the system of moisture and help prevent windshield fogging.

Keep all windows and vents closed to reduce drafts, and noise.

Quicker defrosting may be obtoined when the rear seat heater outlets are closed.

NOTE: In Direct Air Heaters vapor may collect when vehicle stands for long periods, keep the HEAT and AIR levers in OFF position for the first few minutes of engine operation. This will reduce the tendency for moisture to condense on windshield. Oil spilled on engine shrouding may cause odor in passenger compartment. To avoid discomfort, the cause of any odor should be traced and defect promptly corrected.

#### AIR CONDITIONING

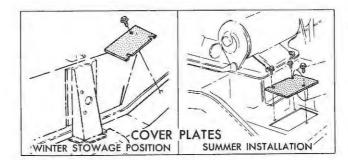
The optional air conditioner has two knobs to provide control of cool air flow. The air flow can be directed through the two front ball outlets and the center outlet

bezel.

The air conditioning controls function as follows:

FAN-Rotate knob to pro-

vide the desired blower speed, low, medium or high. The fan will operate no higher than MED speed when headlights are on.



COOL—Pull knob fully out to provide maximum cooling Intermediate positions provide moderate cooling.

#### AIR CONDITIONER OPERATING TIPS

Always operate the Air Conditioning System with all windows and vents closed to eliminate drafts, wind and road noise. Cover plates furnished should remain installed over the two engine air recirculating slots during the season when cooling is required. These plates should be removed and stowed on top of the rear sill when outside temperatures are continuously below 60°F.

For the best system operation at altitudes over 4000 ft., reduce the cooling output slightly.

Once a week during winter months run the system for approximately five minutes to ensure proper lubrication of the seals and moving parts.

#### CHEVROLET RADIOS

The aptional "all transistor" Chevrolet Radios differ mainly in their operating controls which are reviewed here.

#### **Manually Tuned Radio**

RIGHT CONTROL KNOB—The right control knob is used for manual selection of rodio stations. The wing knob at its base controls the optional rear seat speaker.

LEFT CONTROL KNOB—The outer knob serves to turn the set on and off and to control the volume. The "wing knob" at its base may be moved to change the tone from treble (extreme clockwise) to bass (extreme counterclockwise).

This control is designed to give highest tone fidelity when positioned at the midpoint between the treble and bass settings.



#### Push Button Radio

The push button radio has the manual tuning control knobs plus push buttons which automatically select preset stations when pushed in.

#### To preset the push buttons:

- 1. Warm up the radio for 10 minutes (20 minutes in freezing temperatures).
- 2. Pull the push button straight out as far os it will go.
- 3. Tune the desired station manually.
- 4. Push the button all the way in.
- Check operation of push button and repeat Steps
   through 4 if tuning is not accurate.
- 6. Repeat this procedure for each push button.



#### RADIO TIPS

- Be sure your dial is exactly on the station for clearest reception.
- For local reception, raise the ontenna of least os high as the roof of the vehicle. For long distance reception, extend the ontenna to its full length.
- Push buttons may need to be readjusted occasionally for best reception.
- The Conelrad markings at 640 and 1240 on the radio dial indicate Office of Civilian Defense frequencies; the only frequencies which will be used in case of a national emergency.
- If radio stops playing, first check the radio fuse in the junction block; then check the antenna lead-in cable. If this does not locate the trouble, take the radio to your Authorized Chevrolet Dealer.

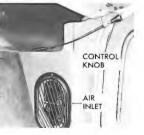
#### CIGARETTE LIGHTER AND ASH TRAY

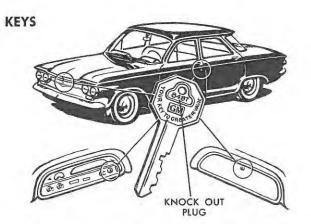
Press in on the optional cigarette lighter to heat. When ready for use, it will "pop" out. The ash tray cover slides toward the front of the car to open. The osh receptocle lifts out for cleaning.



#### AIR VENTS

Additional summer ventilation is provided through vent inlets in each side of the front passenger comportment. The vents may be opened or closed by means of the control knobs beneath each end of the instrument panel.



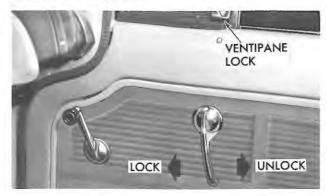


A single key operates all the locks on your Corvair; doors, ignition switch, glove box and luggage compartment. The optional spare tire lock requires its own key.

Each key has a serial number stamped on a removable plug. This number will provide necessary information to enable you to have another key made in the event that the ariginal is lost.

Ta avoid the possibility that unauthorized persons might duplicate your key, it is strongly recommended that you record the serial number and then, with a hammer and punch, remove the knockout plua.

#### DOORS AND LOCKS



- Each front door may be locked from the outside by means of the ignition key inserted into the key lock just below the door opening handle.
- Lock the front doors from the inside by pushing fully forward on the inside release handles. Unlock and open the front doors from the inside by pulling fully rearward on the release handle.
- Open the ventipane windows by lifting up and forward on the friction locks. Pushed out, the window will remain in the desired position.

#### REAR DOORS

- Rear doors, on 4-door models are operated from the outside by means of a push button door handle in the same manner as the front doors. No key lock is provided on the outside of either rear door.
- The inside release handle pulls to the rear to open the rear doors in the same manner as the front doors but is not used to lock the doors.
- Lock the rear doars from inside by depressing the locking button in the window sill. When this button is depressed, both the inside and outside door handles are inoperative. This button must be raised before the doors can be opened either from the inside or outside. This feature becomes very important when young children ride in the rear seat.



#### SEATS



#### Front Seat Adjustment

The one-piece front seat is easily adjusted forward or rearward to provide maximum driving comfort.

To adjust the seat, move the control lever on the driver's end of the seat rearward. Then by exerting slight body pressure the seat may be moved forward or rearward. When the lever is released, the seat is automatically locked in position.

The bucket seats are adjusted in exactly the same manner. The seat control lever for each seat is located beneath the outer edge of the seat (toward the door).

#### Seat Belts

Fasten the seat belts by pushing the metal catch into the buckle until it "snaps" into place. Tighten the belt until comfortably snug by pulling the end extending from the buckle. Loosen the belt by turning the entire buckle outward. Lift the buckle lever to unlatch and release the belt. Keep the belt clean with a cleaner or detergent recommended for nylon. Never bleach or redye seat belts.

#### **Folding Rear Seat**

The folding rear seatback, standard equipment on Monza and Spyder optional on all other Corvair models except convertible, quickly and easily folds forward and down to provide additional cargo space in four-door sedans as well as in coupe models. The folding seat in both models operates in exactly the same manner except that the four-door models include a folding panel at the bottom of the seatback which must be "snapped" into or out of place after lowering and before raising the seatback.

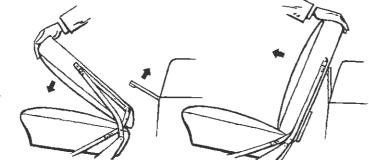
CAUTION: If the car has rear door armrests it will be necessary to open both rear doors before raising or lowering the rear seatback.

To lower the folding seatback:

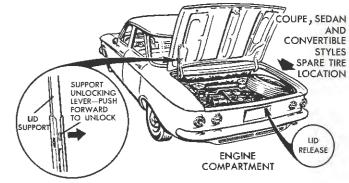
- Pull on each end of the seatback to unlock.
- Swing the seatback forward and down.
- On four-door sedans, press down on the front edge of the lowered seatback with one hond while "snapping" the folding panel, at the bottom of the seatback, into place.

To raise the seatback:

- On four-door sedans, press down on the front edge of the seatback and "unsnap" the folding panel.
- On all models, lift the seatback and slam firmly into place.



FOLDING REAR SEAT



#### LUGGAGE COMPARTMENT

The luggage compartment is located beneath the lid at the front of the car.

- To open the luggage compartment, insert the ignition key and, holding the lid down to relieve the tension on the lock, turn the key fully clockwise and allow the counterbalanced lid to open.
- To close, slam the lid firmly.

A second luggage space is located behind the rear seat, for parcels or luggage which would otherwise take up seat or floor space.

#### GAS CAP

The gas cap is concealed beneath the spring loaded door on the left front fender.

#### ENGINE COMPARTMENT

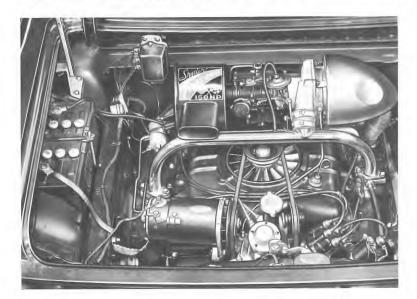
- To open: Push up the lid release while lifting the lid.
   Lift the lid all the way up, then release.
- To close: Lift up on lid, unlock the support arm catch lock, then lower the lid. Drop the lid the last six inches to assure that the lid lock mechanism is engaged.

For proper engine cooling keep the engine compartment lid vents free af ice, snow and leaves.

#### CORVAIR SPYDER

The turbocharged engine of your Spyder model is special—and looks it. Under no conditions should the Turbo-Supercharger be removed and installed on another car. Your Corvair Spyder is designed around the Turbo-Supercharger and all the related parts are necessary.

Break-In Period—We recommend that the supercharger not be used for the first 500 miles. Keep engine speed below 2500 rpm to maintain negative readings on the Manifold Pressure Gauge. From 500 to 1000 miles, short bursts ore permitted but not sustoined runs. After the first 1000 miles, the car may be driven to take full advantage of the extra power from the supercharger.



Fuel and Engine Oil Requirements—Refer to "Maintenance and Lubrication."

Air Recirculating Plates—These plates, the same as used on Air Conditioned Corvairs, should be installed and removed as recommended on Page 15.

**Detonation**—Caused by low grade fuel, faulty timing, carbon deposits or an over-filled crankcase, this condition is more serious than on other engines. If detonation occurs, have your car checked by your Chevrolet Dealer.

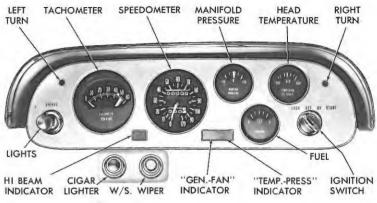
#### YOUR CORVAIR SPYDER INSTRUMENT PANEL

We feel that you, as owner of the Corvair Spyder, will be more interested in a constant check on engine operation than would the average driver. Therefore the following instruments have been provided for your use and information.

Tachometer—with a range of 6000 rpm. Upshifts can be made up to 5300 rpm. Downshift as desired provided engine speed in new gear does not exceed 5300 rpm. The red line at 5500 rpm indicates recommended maximum engine speed.

Speedometer — maximum reading of 120 mph. Odometers are provided for both trip and cumulative mileage. Set the trip odometer by means of the knob located beneath the instrument panel and to the left of the steering column.

Temp-Press and Gen-Fan Indicators—operate in the same manner as on other Corvairs. In addition, a warning buzzer connected to the temperature light will operate if engine temperature reaches the danger point. Under extreme operating conditions, momentary engine overheating may occur. Should the Temp-Press light



come on, release the throttle and, if the light stays on, follow the instructions presented on Page 9.

Manifold Pressure Gauge—tells when the supercharger is functioning. Negative readings indicate normally aspirated engine operation. Positive readings indicate that the supercharger is building up pressure for more power.

**Cylinder Head Temperature Gauge**—indicates cylinder head temperature to warn of approaching overheat condition.

#### CORVAIR 95



#### INSTRUMENTS AND CONTROLS

The Corvair 95 instruments and controls are essentially the same as those of the Corvair which are described in preceding pages of this book. However, due to body construction, various items differ somewhat in operation and location. The next few pages cover those items peculiar to the Corvair 95 only.

#### GASOLINE HEATER



The optional Corvair 95 gasoline heater provides an ample volume of heated air within two minutes after being turned on; controls are: FAN—This lever provides "LOW" blower speed at its first stop and "HI" blower speed when in the full down position; it must be pushed down to either position before heater will operate.

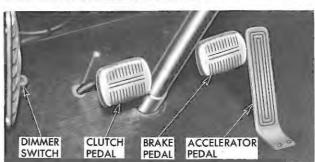
DEF—Diverts heated air to the defroster ducts for defogging or deicing windows; depress to increase flow.

HEAT-Depress lever to select degree of heat desired.

NOTE: It is a normal condition for combustion blower to operate a short time after heater or car ignition is turned off.

#### FOOT CONTROLS

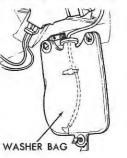
Foot controls, illustrated below, are operated in the same manner as those of the Corvair.



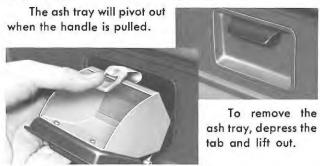
#### WINDSHIELD WASHERS

Water or cleaning agent needed for operation of the accessory windshield washers is carried in a plastic

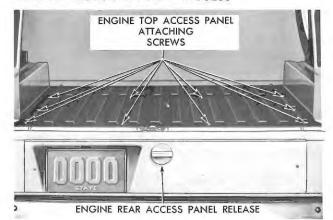
water bag under the dash panel, It is attached to the cowl by three hooks. To fill with water or solvent: remove the bag from the hooks, drop to where the cap may be unlocked and removed, fill the bag, replace the cap and reinstall on the three hooks.



#### ASH TRAY



#### ENGINE COMPARTMENT ACCESS



#### DOORS AND LOCKS



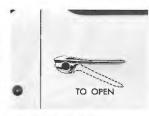
Both front doors may be locked from the outside by means of the ignition key inserted into the push button in the door handle. Turn the key clockwise to lock, counterclockwise to unlock. Both doors may be key locked while open, and when closed, they will remain locked.

Lock the front doors from the inside by pushing fully forward on the release handles. Unlock and open the doors from the inside by pulling fully rearward on the release handles.

The ventipane window friction locks are simply lifted up and forward to unlock and the pane pushed out to the desired position.

#### DOUBLE SIDE DOORS

FRONT SIDE DOOR — Open from the outside by turning the handle downward and from the inside by pulling to the rear on the inside release handle.



REAR SIDE DOOR—Open (after the front side has been opened) by means of the release handle located on the inner door panel.



LOCKING THE SIDE DOORS
—After both side doors are closed, they may be locked from the inside by means of the push button located on the foremost part of the window sill. The lock is conveniently located far accessibility by the driver. Visual indication precludes the necessity of checking aperation of the doars to see if they are locked.



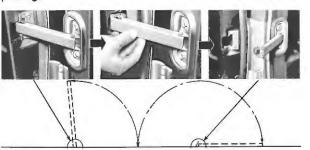
#### **DOUBLE REAR DOORS**

The rear doors operate in much the same manner as the side doors, but lock and unlock at the door handle push button release only. No inner door locking mechanism is provided for the rear doors.



#### **FULL DOOR OPENING FEATURE**

Special door checks normally permit each side and rear door to open to a maximum of 95°. By removing these checks from their retaining slots in the doors, a full 180° opening of each of these doors is possible. When the doors are closed the check automatically enters its slot in the door thus setting the door for its normal 95° opening.



#### RAMPSIDE



The rampgate provides convenient, safe and rapid loading and unloading fram the curb side of the vehicle.

#### To Open

- Pull up on the locking ring located inside the pickup box and to the left of the gate.
- Lift up on both release handles, recessed in the gate



inner panel, and carefully lower the gate to level ground.

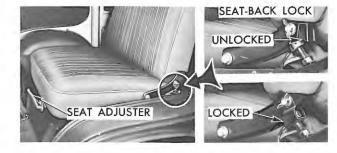
#### To Close

• Carefully lift the gate from the ground and firmly slam to close.

#### TAILGATE

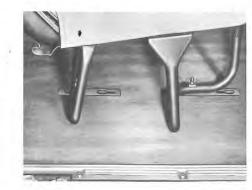
Open the tailgate by lifting up on both release handles recessed in the inner panel. Slam firmly to close.

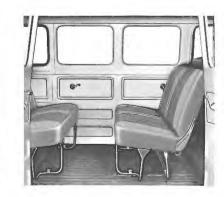
#### SEATS



- Adjust the front seat fore and aft by means of the adjuster handle shown. Lift handle up to move seat.
- If desired, the seatback may be adjusted to lean farther forward or backward by means of the bolt and the lock nut shown.
- Adjustment of the seatback lock determines whether the seatback will be rigid or will fold forward. With the seatback lock in the down position, the seatback will not fold forward.







#### SECOND SEAT

The Greenbrier second seat assembly may be located in either a forward or backward seat position or in the third seat position.

An optional third seat is available if desired, but can be mounted only in the third seat position.

If desired, all rear compartment seats may be quickly and easily removed to provide additional cargo space.

• To remove seat, loosen the wing nuts attaching the seat to the floor and slip the bolt heads out of the

retaining slots.

 To install seat, place the seat in the desired position (fold the rear leg if second seat is being installed in third seat position), slide the four bolt heads into the slots and tighten the wing nuts.

#### FUEL FILLER CAP

The fuel filler cap is located below the rear of the driver's doar.

#### CLEANING HINTS

#### **EXTERIOR APPEARANCE**

Your Corvair is finished with General Motors "Magic-Mirror" acrylic lacquer. This is a finish of maximum beauty which, in depth of color, gloss retention and durability is superior to conventional lacquer finishes.

#### Washing Your Corvair

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

#### Polishing and Waxing Your Corvair

Even though the acrylic paint on your car is more durable than conventional finishes, under certain conditions you may wish to wax or polish your car to provide maximum protection. Calcium chloride and other salts, road oil and tar, tree sap, chemicals from factory chimneys and other foreign matter may damage any known autamobile finish if allowed to remain in contact with the paint film. Prompt washing may not thoroughly remove

these deposits and, particularly in geographical areas where these exposure conditions are severe, properly applied polishes and waxes of known quality will provide the best protection. Chevrolet Dealers offer G. M. Acry-Mel Hand Applied Cleaner and Polish (G. M. Part Number 985090) and G. M. Triple Action Cleaner and Polish (G. M. Part Number 986085); both are excellent for use on acrylic finishes. Road oil and tar removers must be warranted safe for use on acrylic finishes. Chevrolet recommends G. M. Road Oil and Tar Remover (G. M. Part Number 987782).

#### Protection of Exterior Bright Metal Parts

All bright metal parts of the car should be regularly cleaned and protected against the same substances harmful to the painted surfaces. Normally, washing with water is all that is required. However, G. M. Chrome Polish may be used on CHROME or STAINLESS STEEL trim if necessary. Never use chrome palish, steam or any caustic soap to clean ALUMINUM. Wash only with lukewarm water, and if necessary, a mild soap. Rinse well and dry thoroughly. Severe cases may be cleaned with a cleaning compound specified for acrylic finishes.

It is recommended that all bright metal parts of your Corvair, after being thoroughly cleaned, be given a coating of wax and rubbed to a high polish. This will serve to keep corrosive agents away from these surfaces, and should be repeated as often as required.

#### **Cleaning White Sidewall Tires**

Use soap, warm water or a tire cleaner and a stiff brush to remove road grime and dirt from white sidewall tires. A fine grade of steel wool will remove severe curb scrapes. Do not use gasoline, kerosene or any oil product which would discolor or deteriorate the rubber.

CAUTION: Some white sidewall cleaners will cause serious damage to aluminum trim. Use caution when cleaning tires with this type of cleaner.

#### CORVAIR MODELS

BRIGHT ME	TAL TRIM—TYPE AND LOCATION	
ALUMINUM	Headlight Frames Parking Light Frames Tail Light Frames Backup Lamp Frames or Cover Plate Exhaust Grille Panel	
CHROME	Body Front Panel Molding Bumpers Front Emblem Push Button Door Handles Door Key Locks Nameplates Ventipane Frame	
STAINLESS STEEL	All bright metal trim not listed above may be assumed to be stainless steel.	

#### INTERIOR APPEARANCE

#### Dust and Dirt

Clean the interior of your car frequently, using a broom or vacuum cleaner. A damp cloth will wipe dust from hard surfaces.

#### Spots and Stains

Remove upholstery stains as soon as possible or they may become "set" and difficult or impossible to remove. First determine the type and age of the stain and the kind of upholstery material. Kar Kleen Upholstery Cleaner (G. M. 987611), ovailable from your Authorized Chevrolet Dealer, will remove most stains. Do not use alkaline cleaners for they moy damage the color or finish of the materiols. Other solutions such as hat or cold water, ammonia water, soap, ink eradicator, etc., will probably discolor and disturb the material.

#### OCTANE REQUIREMENTS

The Corvair Turbo-Air six cylinder engine is designed to deliver peak performance on what is designated as Regular grade fuel in the United States and Canada.

The Turbo-Supercharger equipped Spyder and all Corvairs equipped with the Super Turbo-Air engine are designed to operate most efficiently on Premium assoline.

Regular gasoline may, however, vary in octane between manufacturers or between different sections of the country. If unfavorable performance is encountered because of either or both of the above factors, any Authorized Chevrolet Dealer can make ignition adjustments which will restore your car to normal operation.

#### **Operation in Foreign Countries**

If you plan to operate your Corvair outside the continental limits of the United States or Canada, there is a possibility that the best fuels available are so low in octane quality that excessive knocking and serious engine damage may result from their use. To minimize this possibility, write to Chevrolet Motor Division, General Motors Corporation, Service Operations Department, Detroit 2, Michigan giving:

- The compression ratio of your engine (refer to Specification Section in this booklet.)
- The car identification number (obtain from car registration or title).

• The country or countries in which you plan to travel.

You will be furnished details of adjustments or modifications which should be made to your engine, by your Chevrolet dealer prior to your departure. Failure to make the necessary changes to your car and subsequent operation under conditions of continuous or excessive knocking, constitutes misuse of the engine for which the Chevrolet Division is not responsible under the terms of the Warranty.

After arriving in a foreign country, contact the nearest authorized General Motors dealer for brand names of the best fuels available and advice as to where they may be purchased.

#### ENGINE LUBRICATION

Your car's engine is filled at the factory with a special break-in oil which must be drained after 500 miles when operating in temperatures of  $60^{\circ}$  F. and higher, and refilled with oil of the viscosity shown in the chart.

LOWEST	RECOMMENDED SAE VISCOSITY OIL	
TEMP.	SINGLE VISCOSITY	MULTI-VISCOSITY
32° F.	SAE-30	SAE-10W-30
−10° F.	SAE-10W	SAE-10W-30
Below -10° F.	SAE-5W	SAE-5W-20

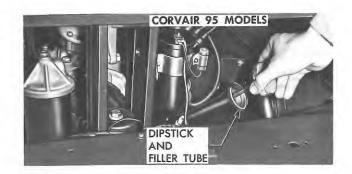
The use of a high quality oil of the correct viscosity is your best assurance of continued reliability and per-



formance from your 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. Your serviceman will be pleased to assist you in selecting the proper oil for your car.

Check the oil level (with the engine hot) on the dipstick frequently. Keep oil level between the FULL and ADD marks, by adding oil when level is ot or below ADD mark. Do not overfill. Poor performance and possible engine damage may result if the crankcase is overfilled. Drain and refill the crankcase every 6000 miles or 60 days, whichever occurs first.

**NOTE:** When checking or adding oil, be careful to avoid spilling or dropping oil onto the engine shrouding.



#### COOLING SYSTEM CARE

The engine fan belt should be checked for tightness at regular intervals. When a new belt is needed use only the approved premium belt available from your Chevrolet dealer. If any other belt is installed, replace with recommended belt when possible.

Watch the TEMP-PRESS and GEN-FAN indicators on the instrument panel for signs of overheating.

Air inlet louvers in the Corvair engine compartment lid or in the Corvair 95 upper rear quarter panels supply air for engine combustion and cooling and for the Direct Air Heater. Make sure the louvers are never sealed or blocked.

#### BATTERY CARE

Check fluid level frequently. Keep filled with distilled water to level of split ring in vent tube.

#### TIRE CARE

Your new Chevrolet Corvair is designed to operate most efficiently with the inflation pressure shown in the following table. Nothing will be gained by exceeding pressure shown, whereas, excessive pressures can adversely affect riding comfort and quietness. Under inflation affects vehicle handling and tire life. Over-steer problems may also be encountered with incorrect pressures. Maintain recommended pressures at all times.

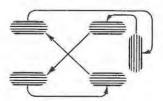
All four wheels of your Corvair have been static-balanced for best performance and tire life. Wheels should be rebalanced after tire service or replacement.

	COI	LD*	нот**	
TIRE SIZE	Front	Rear	Front	Rear
CORVAIR				
6.50 x 13	15	26	18	30
CORVAIR 95				
7.00 x 14-4 ply S.P.	24	30	28	35
7.00 x 14-6 ply S.P.	24	34	28	39
7.00 x 14-6 ply Light Truck	24	45	28	50
7.00 x 14-8 ply Type	24	60	28	65

Spare Tire-Inflate to proper Rear (Cold) pressure. Deflate to correct pressure when using as front tire.

#### FOR MAXIMUM TIRE LIFE

- Keep tires properly inflated.
- Check regularly for cuts, bruises and puncturing objects. Nails etc. will often be carried in the tire with no noticeable loss of air.
   Do not remove a puncturing object until prepared to change ar repair the tire.
- Avoid unnecessary sudden starts and staps; take curves and corners slawly.
- Avoid driving over curbs, sharp objects or chuckholes.
- Have wheel alignment checked periodically, especially when tires show unusual wear.
- Rotate tires every 6000 miles as shown in diagram.



SWITCHING TIRES

#### Inspection and Repair

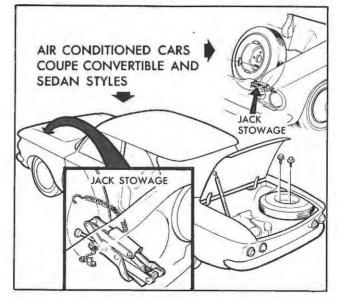
Inspect frequently for puncturing objects in the tires.

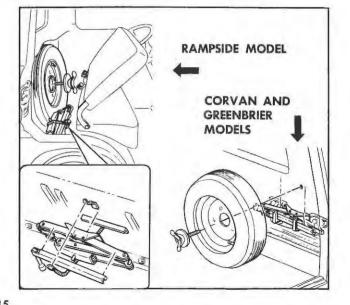
If any are found, do not attempt removal until you are

in a position to change the tire or have it repaired. Also, check regularly that the wheel rim has sustained no damage which could affect the air seal.

#### SPARE TIRE AND JACK STOWAGE

Spare tire and jack stowage for the different styles are illustrated below.





<sup>\*</sup>After car has been parked for 5 hours or more or driven less than one mile.

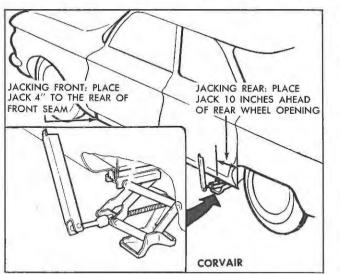
<sup>\*\*</sup>Pressures can rise as much as 5 pounds above cold figures depending on loads carried, length of driving, and car speed prior to check.

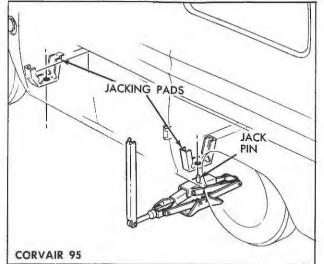
#### Jacking the Car

The scissors type jack and its wrench are stowed in the different models as illustrated. The opposite end of the wrench is shaped into a "finger" designed for use in removing the hub caps.

When jacking the car, set the hand brake, block diagonal wheel, and, if changing wheels, remove the hub cap and loosen wheel nuts. Place the jack under the side of the car located as shown.

CAUTION: Never attempt to raise the Corvair by placing any kind of jack under the bumper.





#### PERIODIC MAINTENANCE AND LUBRICATION

The time or mileage intervals on the following pages are intended as a general guide for establishing regular maintenance and lubrication periods for your Corvair. Sustained heavy duty or high speed operations or operation under adverse conditions may necessitate more frequent servicing. For specific recommendations for conditions under which you use your vehicle, consult your authorized Chevralet Dealer.



#### **ENGINE OIL CHANGE\***

See "Engine Lubrication" in previous pages.

#### OIL FILTER\*

Change the filter element every 6000 miles or every six months, whichever occurs first.

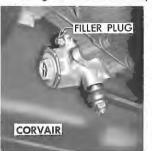
#### CRANKCASE VENTILATION\*

Valve Type—Test at every oil change, replace as required.

Fixed Orifice Type—Check at every oil change, clean as required.

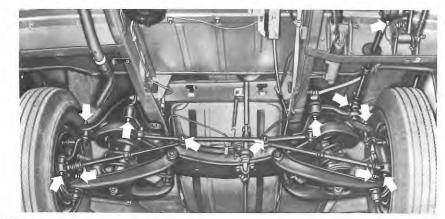
#### STEERING GEAR

Every 36,000 miles—Remove filler plug and check lubricant level. If necessary add steering gear lubricant to bring to level of filler plug hole.





\*More often under prolonged dusty driving conditions.



#### CHASSIS LUBRICANT

Every 6,000 miles or six months lubricate the chassis, at the points listed below, with a water resistant EP Chassis Lubricant.

#### Corvair 95

Front Suspension—4 Lubrication Fittings
Steering Linkage—8 Lubrication Fittings
Clutch Pedal Pivot—1 Lubrication Fitting
Brake Pedal Pivot—1 Lubrication Fitting

Clutch Linkage—Coat the exposed clutch linkage (located just ahead and to the right of the transmission).

#### Corvair

Front Suspension—4 Lubrication Fittings Steering Linkage—4 Lubrication Fittings

#### Clutch Cross Shaft

Every 36,000 miles (or sooner if necessary)—Remove plug and install lubrication fitting. Lubricate with a water resistant EP Chassis Lubricant.



CLUTCH CROSS SHAFT

#### GENERATOR



Every 12,000 miles—Fill both oilers with light engine oil.

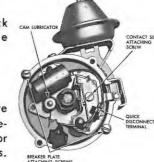
Do not over-oil the oiler neorest fan belt.

#### FAN BELT

Every 6,000 miles — check condition of belt (see page 50).

#### DISTRIBUTOR CAM LUBRICATOR

Every 12,000 miles — Rotate cam lubricator 180 degrees. Replace lubricotor ot 24,000 mile intervals.



#### AIR CLEANER-PAPER ELEMENT TYPE

First 12,000 miles—Inspect or test element; if satisfactory, re-use element but recheck every 6000 miles until replaced. Element must not be washed, ailed, tapped, or cleaned with an air hose.





#### AIR CLEANER-POLYURETHANE TYPE

Every 6000 miles—Clean and reoil filter element. Under severe dust canditions, it may be necessary to clean and reoil the element more often. To clean: remove element from screen, wash in non-chlorinated cleaning solvent such as kerosene to remove oil and dirt. Squeeze dry, dip in engine oil and squeeze to remove excess oil. (Never shake or wring—always squeeze.) Then wrap element in a clean, dry cloth and squeeze out ony remaining oil.

#### AIR CONDITIONING

Every 6000 miles—Check sight glass, located under the hood, after the system has been in operation for several minutes. Sight glass should be clear. Bubbles or dirt indicate a leak which should be corrected immediately by your Chevrolet Deoler.

#### **BRAKE LININGS**

Have the brake linings inspected periodically. Frequency of inspection will depend on traffic, terrain and the driving habits of the driver.

#### BRAKE MAIN CYLINDER

Every 6,000 miles—Check fluid level and maintain 1/4" below opening with G. M. Hydraulic Brake Fluid Super No. 11.

## PARKING BRAKE AND CLUTCH PULLEYS AND CABLES—CORVAIR

Every 12,000 miles—Lubricate pulleys under dash. Remove the tunnel cover under vehicle and lubricate pulleys and cable bearing points with a water resistant EP Chassis Lubricant. Lubricate gearshift lever ball and socket (see page 41) at the same time.

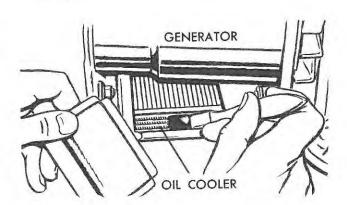
#### FRONT WHEEL BEARINGS

Every 36,000 miles—Clean and repack bearings with high melting point wheel bearing lubricant. Replace grease seals at the same time.

#### ENGINE OIL COOLER

Every 12,000 miles (more often under prolonged dusty driving conditions)—Remove cover and brush or blow out accumulated dirt.

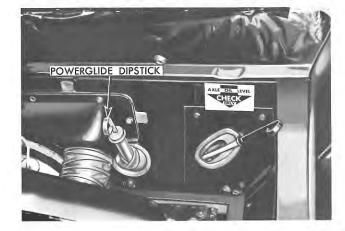
**NOTE:** Material usually found in the oil cooler consists primarily of twigs, straw, chaff, and leaves.



#### TRANSMISSION-POWERGLIDE

Every 6000 miles—Check fluid level on dipstick, located in the right front of the engine compartment, with engine idling, selector lever in NEUTRAL pasition, parking brake set and transmission at operating temperature. Add automatic transmission fluid type "A" bearing the mark AQ-ATF, followed by a number and the suffix letter "A", to full mark on dipstick. DO NOT OVERFILL. Correct oil level must be established by dipstick measurement.

Add small omounts of oil, checking the level ofter each addition, until the proper level is reached.



NOTE: From the "Add Oil" mark to the "Full" mark on the dipstick indicates a difference of anly 1 pint of fluid.

If vehicle is so equipped, clean dust and dirt from transmission oil cooler every 12,000 miles.

#### TRANSMISSION-3 AND 4-SPEED

Follow recommendations given under "Rear Axle".

### TRANSMISSION CONTROL LINKAGE— 3 AND 4-SPEED

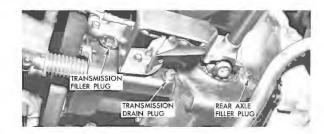
#### Corvair

Every 12,000 miles—Lubricate connector (indicated in the illustration below) with a woter resistant EP Chassis Lubricant.



Every 12,000 miles—Remove tunnel cover under vehicle and lubricate gearshift lever ball and socket with Lubriplate.

#### REAR AXLE



Check lubricant level with axle at operating temperature: on Corvoir models at the dipstick whenever engine oil is checked; on Corvair 95 models of the filter plug opening every 6000 miles.

If lubricant level is at or below ADD mark on dipstick or below filler plug, fill to level of the filler plug hole with SAE 80 Multi-purpose Gear Lubricant meeting the requirements of U.S. Ordnance Spec. MIL-L-2105B.

Check 3- or 4-speed lubricant level, if the rear axle lubricant level is low.

#### BATTERY

Every 6000 miles—Clean and oil battery terminals and oil felt washer. Clean top of battery with diluted ammonia or soda solution and flush with clean water. Check state of charge especially in freezing weather. An underchorged battery may freeze ond break.



Corvair 95 Battery and Transmission Oil Cooler Access Door

#### FUEL FILTER

#### Corvair and Corvair 95

Replace filters, located in each carburetor inlet, only if flooding occurs.



#### Corvair Spyder

The fuel filter is a separate unit mounted on the air cleaner support bracket at the left of the air cleaner. It should be replaced at 12,000 mile intervals. At the same interval, also clean the screen located in the carburetor inlet.

#### **BODY LUBRICATION POINTS**

Most body lube points do not need frequent, heavy lubrication. However, periodic checks of certain points on the Corvair body, and lubrication when needed will eliminate annoying squeaks and noises. Be careful not to over-lubricate. Wipe off all surplus lubricant.

The following items should be lubricated periodically:

- 1. Door Hinges-Wipe off dirt and apply Lubriplate.
- Door Lock Striker—Wipe off dirt and apply stick type lubricant.
- Top Lift Cylinder Rods—Cleon and lubricate with G.M. Hydraulic Brake Fluid.
- 4. Door Jamb Switch-Apply Lubriplate (G.M. 987785).
- Front and Rear Compartment Lid Lock—Apply Lubriplate (G.M. 987785).
- Front Compartment Lid Torque Rods—Apply G.M. Lubriplate, G.M. Port Number 987785, to bearing points.

- 7. Gas Tonk Filler Door Hinge—Apply dripless oil.
- 8. Glove Box Door Hinge-Apply dripless oil.
- Rear Folding Seat Back Support Link Assembly and Filler Panel Hinge—Apply dripless oil to bearing points.

The following should be lubricated whenever accessible.

- Door Outside Handle Lock Cylinder Shaft—Apply Lubriplote (G.M. Part Number 987785).
- Door Window Regulator and Cams—Apply Lubriplote (G.M. 987785).
- 12. Door Lock Ports-Apply Lubriplate (G.M. 987785).
- Door Locking Mechanism—Apply Lubriplate (G.M. 987785).
- Front and Rear Compartment Hinges—Apply G.M. Lubriplate, G.M. Part Number 987785.

#### SPECIFICATIONS

#### SERIAL AND UNIT NUMBERS

Engine Number Stamped on the engine black behind and to left of the fuel pump.

Body Number Corvair—Stamped on a plate attached to the left rear wheel well, within the engine campartment.

Corvair 95—Stamped on a plate attached to the frant inner body panel, within the driver's compartment.

Serial Number Stamped on vehicle identification plate attoched to the left lock pillar.

#### DIMENSIONS

Lengih:
Corvair 95179.7 in.
Carvair180.0 in.
Width:
Corvair 95
Corvair 66.4 in.
Height:
Carvan and Greenbrier
Rampside 69.0 in.
Corvair 51.3 in.
Wheel Base:
Corvoir 95
Corvair108.0 in.
Turning Diameter:
Corvair 95 42.6 ft.
Corvoir 39.0 ft.
Laad length—Corvan and Greenbrier
Load Length—Rampside
load Width-Corvan and Greenbrier 59.4 in.
Load Width-Rampside 61,8 in.
Laad Compartment Height-Corvan and Greenbrier 54.0 in.
Platfarm Height—Rampside

Tailgate Width—Rampside 44	.8 in.
Rampgate Width	.5 in.
Side Loading Doors-Width	.5 in.
Rear Loading Doors	.6 in.

#### CAPACITIES

Gasoline Tank:
Corvair 9518.5 gal.
Corvair14.0 gal,
Cronkcase Refill
Add for filter 1 pt.
Transmission:
3-Speed
4-Speed3 pt.
Differential
Cooling System

#### ENGINE SPECIFICATIONS

Horsepower:
Turbo-Air 95 @ 3600 rpm
Super Turbo-Air110 @ 4400 rpm
Turbochorged
Compression Ratio:
Turbo-Air and Turbocharged8.0:1
Super Turbo-Air9.0:1
Displacement164 cu. in.
Bare and Stroke (all engines):
Firing Order1-4-5-2-3-6
Spark Plugs:
Turbo-Air (GAP .035")
Super Turbo-Air and Turbocharged (GAP .030") AC-44-FF

Idle Speed:   Turbo-Air w/manual trans. (in Neutral)
Ignitian Timing: Turbo-Air (manual transmission)

#### Axle Ratios:

Engine	Transmission	Standard Rati
Turbo-Air	All	3.27:1
Super Turbo-Air	3- and 4-Speed	3.27:1
	Powerglide	3.55:1
Turbocharged	Ali	3.55:1

\*Standard Ratio: For Corvair 95 and Air Canditioning Equipped Vehicles 3.55:1.

BULB SPECIFICATIONS Candle	Number
Headllamp Unit (Sealed Beom)	
Outer—High Beam	4002
low Beam 55W	
Inner-High Beam Only	4001
Parking Lomp-Directional Signal and	
Tail-Stop-Directional Signal Lamps 4-32	1157
Back-Up Lamps	1156
Instrument Lamps	GE 1816
Temp. Press., Gen. Fan., and Glove	
Compartment Lamps	1895
Heodlamp High Beam Indicator, Directional	
Signal Indicator, and Heater Control	
Panel Lamps 1	1445
Dome Lamp	211
Courtesy Lamp	631
License Plate Lamp4	1155
Radio Dial Lamp	1893

#### FUSES AND CIRCUIT BREAKER

A circuit breaker in the light control switch protects the headlamp circuit, thus eliminating one fuse. Where current load is too heavy, the circuit breaker intermittently opens and closes, protecting the circuit until the cause is found and eliminated.

Fuses, located in the junction block beneath the dash are:

1.	Heater Blower	
	Glove Compartment Lamp	3AG/AGC-10 amp.

 tail and Stop Lamps,	
Dome Lamp	

3.	Heater (Total System)	
	Back-up Lamp	3AG/AGC-20 amp.

4.	Radio	 3AG/AGC-21/2 amp

5.	Instrument Panel Lamps
	Radio Panel Lamp

Heater Control Panel Lamp	3AG/AGC-3 amj
---------------------------	---------------

6.	Windshield	Wiper	Motor	3AG/AGC-20 amp.
----	------------	-------	-------	-----------------

(Located in 14GA red and 12GA gray wires in area of ignition switch.)

#### TRAILERS AND THEIR EFFECT ON CAR OPERATION

Corvair passenger cars are designed primarily for passenger conveyance. However, it is well known that many owners do use the Corvoir to pull trailers, and when available trailer hauling options have been used, the owners have experienced very satisfactory service.

When a trailer is attached to a car, the car becomes not only a load-carrying vehicle, but a load-pulling vehicle. The demands of this type of operation are very different from those for which the automobile is primarily designed and may present problems, such as spring and tire loading, braking, cooling, lighting, and steering. However, careful driving practices and the use of factory-recommended options will better satisfy the requirements of trailer hauling.

If in the opinion of the manufacturer a part or component of a motor vehicle has been adversely affected by misuse of the vehicle with trailer loads, such part or component will not be covered by the manufacturer's warranty.

The size of and equipment for trailers, including such items as hitches and safety chains, brakes, lights, power-weight ratios and over-all length, are generally subject to safety regulations in all states, and it is the responsibility of the user to make certain that he is in full compliance with the regulations of the states in which he plans to operate with a trailer of the Interstate Commerce Commission, if applicable, before doing so. Further, when operating a car with a trailer attached, the driver must realize that the performance, steering characteristics, and braking distance of his car have been altered, and that he must exercise greater caution to safely handle his car and trailer.

#### MINOR TROUBLE SHOOTING GUIDE

		F	UEL S	SYSTEM	ANI	D EN	SINE					ELECT	RICAL	SYST	EM				OOLII Syste		
If your car acts in the following manner:  Check here in sequence shown for possible causes.	Check Fuel Gauge	Flooded Carburetor	Empty Carburetor Bowl	Poor Fuel Supply to Carburetor	Idle Adjustment*	Stuck Choke Valve*	Oil Level and Pressure	Condition of Air Cleaners	Malfunctioning Ignition Switch	Automatic Trans- mission Selector Lever	Check Spark	Battery and Connections	Generator and Voltage Regulator Connections	Coil and Distributor Leads	Starter Connections and Solenoid	Damp Electrical Connections	Generator Condition*	Air Flow Through Engine Restricted	Fan Belt Condition and Tension Adjustment	Cooling System*	Thorough Check and
On the following pages, see paragraph:	A	В	D	B-C-D	E	D	L	E	F	F	K	G	G	J	H	-	G	M	N	0	
See information on page number:	8						9-32	39		3-6		42					9				
CAR WILL NOT START:																					
Engine Will Turn Over	1.	4		3							6			2			5				7
Engine Will Not Turn Over									2	1		3			4						
CAR WILL START-BUT:																-	_				
Only After Repeated Tries										1										FI	
Stalls in a Few Seconds			2	1	3																
Stalls When Hot					1	2		3													4
Idles Rough		-			1			2													3
Engine Overheats																		1	2	3	
"Oil" Indicator Comes On							1					. 1									
"Gen" Indicator Comes On											9	3	2				4		1		

<sup>\*</sup>See Your Authorized Chevrolet Dealer

#### MINOR TROUBLE SHOOTING PROCEDURES

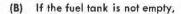
The chart an the previous page, and the information on the pages which follow, contains information designed to aid the average driver to discover, and possibly correct, conditions resulting in minor mechanical difficulties in his car. The chart, designed to point out possible solutions to several of 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 moking the checks and adjustments suggested, the source of the trouble has not been found and corrected, it is strangly recommended that an Authorized Chevrolet Dealer inspect the vehicle and moke whotever 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 regularly and mast especially at a time when the engine will "turn over" but will not start.





Checking Fuel Flow

you may check further to see whether the fuel is reaching the engine. Disconnect the fuel lines at the carburetor. Place a jar or cup under open line and briefly "crank" the engine by means of the starter. If fuel spurts from the line, 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 or fuel pump are at fault. See your Authorized Chevrolet Dealer.

- (C) Before reconnecting the fuel lines to the carburetor, remove the FUEL FILTER from carburetar inlet and check its condition. If it appears to be clean, replace it and reconnect the fuel lines. If the filter appears to be plugged, clean it as well as possible by scraping out the foreign moterial and cleaning in a solvent. Then reinstall the filter and repeat the procedure with the second carburetor. Replace the filters with new ones as soon as possible.
- (D) If the fuel seems to be reaching the carburetors properly, the problem may be: on EMPTY CARBURETOR BOWL caused by a "stuck shut" float valve or 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 cleaners from the carburetors. Check that the chake valves move freely and are not stuck. Tap the side of the carburetars shorply several times with a light tool such as a screwdriver handle or pliers. Replace the air cleaners and attempt to start the engine in the normal manner.
- (E) If the car will start but stalls when hat or has a rough idle, you can suspect a faulty IDLE ADJUSTMENT, or extremely dirty

and blocked AIR CLEANER ELEMENTS. Clean and reoil the air cleaner elements if necessary. Idle adjustment should be performed by your Chevrolet Dealer.

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 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 a 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 generator indicator on the instrument panel. 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 cannections 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 restared 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 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, especi-

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

ally when the engine is cold.

(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



Distributor and Coil Leads

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 wire at this point. Hald the bare wire about 1/4 inch from the bare tip of the spark plug from which you removed the wire. When the engine is "turned



Checking for Spark

over'' a spark should jump across the ¼ 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.

#### COOLING SYSTEM

When the car will run but evidences serious overheating on the temperature gauge in the instrument ponel, 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.

CAUTION: Never drive the car when the TEMP-PRESS indicator in the instrument panel is lighted. (See Page 9.)

- (M) Check the air intake louvers. Clean them if they are plugged with leaves or other foreign material.
- (N) 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 idler bracket bolts and move the bracket toward the engine to remove and replace the belt. Tighten the belt, whether new or old, by loosening the idler bracket nuts, prying with a bar on the



Checking Fan Belt Tension

bracket until the belt is tensioned properly, then retighten the bracket bolts. Proper belt tension is such that, when belt is deflected downward with moderate thumb pressure at a point midway between the generator and fan pulleys, the belt will deflect about  $\frac{1}{8}$ " to  $\frac{1}{16}$ ". Do not overtighten the belt.

(O) 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 air to circulate through the engine. See your Authorized Chevrolet Dealer.

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