

## Corvette and Passenger Car Carter Carburetors

Bert Brown sent me the following specifications for the WCFB 2-four carburetors, January 1956 to October 1958. If you check closely at the metering rod sizes of all years, you can see why I wrote the article about them explaining why you must know how they work. With this information you can check your carburetors to see that you have the right parts installed, or to rebuild them correct. I also included the base gasket drawing.

## CHEVROLET "V-8" Corvette and Super Power Kit for Passenger Cars

**(2362S) Rear Carburetor**  
 (2627S can be used to replace 2362S)  
**(2419S) Front Carburetor**  
 (2626S can be used to replace 2419S)  
 Both 2626S and 2627S carburetors must be used together  
 when replacing earlier model carburetors.

WCFB Four-Bore Down-Draft Climatic® Control  
 Carburetors Nos. 2362S-2419S

### CARBURETOR SPECIFICATIONS

For Chevrolet 8 Cylinder Engine: 3 3/4 Inch Bore, 3 Inch Stroke

**Dimensions:** Flange size, 1 1/8 inch. Four Bore—4 bolt type.

Primary venturi size, 11/32 inch I. D.

Main venturi (primary) size, 15/16 inch.

Main venturi (secondary) size, 1 1/8 inch I. D.

**Vents:** (2362S) Outside, (4) in air horn; (4) in flange. Inside, (7).

(2419S) Outside, none. Inside, (7).

**Gasoline Intake:** Size No. 42 (.0935 inch) drill hole in needle seat.

**Low Speed Jet Tube:** (Primary side only).

Jet, size No. 65 (.035 inch) drill.

By-Pass, in body, size No. 52 (.0635 inch) drill.

Economizer, in screw plug, size (.049 inch) diameter.

Idle Bleed, in body, size No. 52 (.0635 inch) drill.

**Idle Port:** (Upper) slot type. Primary, length .165 inch; width .030 inch. Secondary, none.

**Idle Port Opening:** Primary, .065 to .071 inch above top edge of valve with valve tightly closed. Secondary, none.

**Lower Port:** Primary (for idle adjustment screw), size No. 53 (.0595 inch) drill. Secondary, none.

**Set Idle Adjustment Screw:** 1/4 to 1 1/4 turns open. For richer mixture turn screw out. Do not idle engine below 600 r.p.m. (Power Glide in Drive Range).

**Idle Air Adjusting Screw:** Seat size No. 29 (.136 inch) drill.

**Main Nozzle:** Installed permanently. DO NOT REMOVE. Anti percolating jet (primary, in plug) size No. 60 (.040 inch) drill; (secondary, in body) size No. 60 (.040 inch) drill.

**Metering Rod (Vacuometer Type):** See parts list for size.

**Metering Rod Jet:** Primary, size .086 inch diameter (for metering rod).

Secondary, size .051 inch diameter (no metering rod).

**Accelerating Pump:** Discharge jet (twin) primary side only, size No. 73 (.024 inch) drill.

Intake ball check seat, size .115 to .120 inch diameter.

Discharge needle seat, size .070 inch diameter.

Discharge relief plug size No. 75 (.022 inch) drill.

**Choke:** (2362S only) Carter Climatic® Control, set on index. Butterfly type—offset choke valve, primary side only. Choke heat suction hole, restriction in piston housing, size No. 43 (.089 inch) drill.

**Metering Rod:** Standard .064" x .060" x .054".

### Motor Tune-Up—Be Accuratel

**CAUTION:** Change worn or leaky flange gaskets. Tighten manifold bolts and test compression before adjusting carburetor.

|                                |                                       |  |   |  |   |
|--------------------------------|---------------------------------------|--|---|--|---|
| <b>Spark Plug Gap</b><br>.035" | <b>Breaker Point Setting</b><br>.018" | <b>Ignition Timing Breaker Points to Open:</b><br>4° B.T.C. or<br>12° B.T.C. at<br>1000 R.P.M. | <b>Valve Setting (Hot)</b><br>Intake .008"<br>Exhaust .018" | <b>Float Setting</b><br>Primary 1/8 Inch<br>(Use Gauge T109-232)<br>Secondary 1/4 Inch<br>(Use Gauge T109-223) | <b>Idle Adjustment Screw Setting</b><br>1/4 to 1 1/4<br>Idle Engine at<br>600 R.P.M.<br>Power Glide<br>in Dr. Range |
|--------------------------------|---------------------------------------|--|---|--|---|

**CARBURETOR**

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# CHEVROLET "V-8"

(2626S)  
**Front Carburetor**

**CORVETTE AND  
 PASSENGER CARS  
 1957-1958**

(2627S)  
**Rear Carburetor**

WCFB Four-Bore Down-Draft Climatic® Control Carburetors Nos. 2626S-2627S

## CARBURETOR SPECIFICATIONS

For Chevrolet 8 Cylinder 283 Cu. In. Engine: Vacuum at Idle 11 inches

**Dimensions:** Flange size, 1 1/8 inch. Four Bore—4 bolt type.  
 Primary venturi size, 11/32 inch I. D.  
 Main venturi (primary) size, 15/16 inch.  
 Main venturi (secondary) size, 1 1/8 inch I. D.

**Vents:** (2627S) Outside, (4) in air horn; (4) in flange. Inside, (7).  
 (2626S) Outside, none. Inside, (7).

**Gasoline Intake:** Size No. 42 (.0935 inch) drill hole in needle seat.

**Low Speed Jet Tube:** (Primary side only).  
 Jet, size No. 68 (.031 inch) drill.  
 By-pass, in body, size (.049 inch) diameter.  
 Economizer, in screw plug, size (.049 inch) diameter.  
 Idle bleed, in body, size No. 52 (.0635 inch) drill.

**Idle Port:** (Upper) slot type. Primary, length .174 inch; width .030 inch. Secondary, none.

**Idle Port Opening:** Primary, .113 to .119 inch above top edge of valve with valve tightly closed. Secondary, none.

**Lower Port:** Primary (for idle adjustment screw), size No. 53 (.0595 inch) drill. Secondary, none.

**Set Idle Adjustment Screw:** 1/4 to 1 1/4 turns open. For richer mixture turn screw out. Do not idle engine below 600 r.p.m. (Power Glide in Drive Range).

**Main Nozzle:** Installed permanently. DO NOT REMOVE. Anti-percolating jet (primary, in plug) size No. 60 (.040 inch) drill; (secondary, in body) size No. 60 (.040 inch) drill.

**Metering Rod (Vacumeter Type):** See parts list for size.

**Metering Rod Jet:** Primary, size .0935 inch diameter (for metering rod).  
 Secondary, size .053 inch diameter (no metering rod).

**Accelerating Pump:** Discharge jet (twin) primary side only, size No. 73 (.024 inch) drill.  
 Intake ball check seat, size .115 to .120 inch diameter.  
 Discharge needle seat, size .070 inch diameter.

**Choke:** (2627S only) Carter Climatic® Control, set on index. Butterfly type—offset choke valve, primary side only. Choke heat suction hole, restriction in piston housing size No. 43 (.089 inch) drill.

**Metering Rod:** Standard .077" x .0715" x .068".

### Motor Tune-Up—Be Accurate!

**CAUTION:** Change worn or leaky flange gaskets. Tighten manifold bolts and test compression before adjusting carburetor.

|                                |                                       |   |  |   |
|--------------------------------|---------------------------------------|---|--|---|
| <b>Spark Plug Gap</b><br>.035" | <b>Breaker Point Setting</b><br>.018" | <b>Ignition Timing Breaker Points to Open:</b><br>1957—12° B.T.C. at Idle<br>or 18° B.T.C. at 1000 R.P.M.<br>1958—4° B.T.C. | <b>Float Setting</b><br>Primary 1/8 Inch<br>(Use Gauge T109-232)<br>Secondary 1/4 Inch<br>(Use Gauge T109-223) | <b>Idle Adjustment Screw Setting</b><br>1/4 to 1 1/4<br>Idle Engine at 600 R.P.M.<br>Power Glide in Dr. Range |
|--------------------------------|---------------------------------------|---|--|---|

NOTE: These cars equipped with Hydraulic Valve Lifters. NO ADJUSTMENT.

**CHEVROLET****Form 5331**

Carbs. 2613S-2614S

Add to Heading:

283 Cu. In. Engine With Race Cam.

**CHEVROLET "V-8"**

**CORVETTE AND  
 PASSENGER CARS  
 1957-1958**

**2613S  
 Front Carburetor**

**2614S  
 Rear Carburetor**

283 Cu. In. Engine with Race Cam

WCFB Four-Bore Down-Draft Climatic® Control Carburetors Nos. 2613S-2614S

**CARBURETER SPECIFICATIONS**

For Chevrolet 8 Cylinder 283 Cu. In. Engine: Vacuum at Idle 11.0 Inches with race cam

**Dimensions:** Flange size, 1 1/8 inch. Four Bore—4 bolt type.  
 Primary venturi size, 11/32 inch I. D.  
 Main venturi (primary) size, 15/16 inch.  
 Main venturi (secondary) size, 1 1/8 inch I. D.

**Vents:** (2614S) Outside, (4) in air horn; (4) in flange. Inside (7).  
 (2613S) Outside, none. Inside (7).

**Low Speed Circuit:** Primary side only.  
 Jet, size No. 65 (.035 inch) drill.  
 By-pass, in body, size No. 53 (.0595 inch) drill.  
 Economizer, in screw plug, size No. 56 (.0465 inch) drill.  
 Idle bleed, in body, size No. 52 (.0635 inch) drill.  
 Idle port, slot type, length .174 inch; width .030 inch.

**Idle Port Opening:** Primary, .113 to .119 inch above top edge of valve with valve tightly closed.

**Lower Port:** Primary (for idle adjustment screw), size No. 53 (.0595 inch) drill.

**Set Idle Adjustment Screw:** 1/8 to 1/4 turns open. For richer mixture turn screw out. Do not idle engine below 800 R.P.M.

**Main Nozzle:** Installed permanently. DO NOT REMOVE. Anti-percolating jet (primary, in plug) size No. 60 (.040 inch) drill; (secondary, in body) size No. 60 (.040 inch) drill.

**Accelerating Pump:** Discharge jet (twin) primary side only, size No. 73 (.024 inch) drill.

Intake ball check seat, size .115 to .120 inch diameter.

Discharge needle seat, size .070 inch diameter.

**Choke:** (2614S only) Carter Climatic® Control, set on index. Butterfly type—offset choke valve, primary side only. Choke heat suction hole, restriction in piston housing, size No. 43 (.089 inch) drill.

**Metering Rod:** Standard .071" x .050". **Primary Rod Jet:** .1065. **Secondary Jet:** .1061.

**Motor Tune-Up—Be Accurate!**

**CAUTION:** Change worn or leaky flange gaskets. Tighten manifold bolts and test compression before adjusting carburetor.

|                                |                                       |  |   |  |   |
|--------------------------------|---------------------------------------|--|---|--|---|
| <b>Spark Plug Gap</b><br>.035" | <b>Breaker Point Setting</b><br>.018" | <b>Ignition Timing Breaker Points to Open:</b><br>14° B.T.C. at Idle<br>or 18° B.T.C. at 1000 R.P.M. | <b>Valve Setting (Hot)</b><br>Intake .008"<br>Exhaust .018" | <b>Float Setting</b><br>Primary 1/8 Inch<br>(Use Gauge T109-232)<br>Secondary 1/4 Inch<br>(Use Gauge T109-223) | <b>Idle Adjustment Screw Setting</b><br>1/8 to 1/4<br>Idle Engine at 800 R.P.M. |
|--------------------------------|---------------------------------------|--|---|--|---|

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