CHRYSLER "V-8"

1955-1956

(2317S) C-68-300

(2445S) Rear Carbureter C-72-300, 1956 (2444S) Front Carbureter C-72-300, 1956

Two Carbureters Per Engine

WCFB Four-Bore Down-Draft Climatic® Control Carbs. Nos. 2317S-2444S-2445S

CARBURETER SPECIFICATIONS

For Chrysler 8 Cylinder Engine: 3-13/16 Inch Bore, 35/8 Inch Stroke (1955)
For Chrysler 8 Cylinder Engine: 3.94 Inch Bore, 3.63 Inch Stroke (1956)

Dimensions: Flange size, 11/8 inch Four Bore—4 bolt type.
Primary venturi size, 11/32 inch 1. D.
Main venturi size, 1-1/16 inch 1. D.

Float Level: See adjustments.

Vents: Inside (5), outside (none).

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

Low Speed Jet Tube: Jet, primary and secondary, size No. 69 (.0293 inch) drill. By-pass, in body size primary No. 52 (.0635 inch) drill, secondary (.057 inch) diameter. Economizer, in body size (.0452 inch) diameter. Idle bleed, in body size primary (.059 inch) diameter, secondary No. 44 (.086 inch) drill.

Idle Port: Upper, slot type, primary, length .175 inch; width .030 inch. Secondary, length .103 inch; width .030 inch.

Idle Port Opening: Primary .116 to .122 inch, secondary .059 to .065 inch above top edge of valve with valve tightly closed.

Lower Port: Primary (for idle adjustment screw), size No. 55 (.052 inch) drill.

Secondary (no idle adjustment screw), size No. 57 (.043 inch) drill.

Set Idle Adjustment Screw: 1/4 to 11/4 turns open. For richer mixture turn screw out. Do not idle engine below 700 R.P.M. in neutral. Main Nozzle: Installed permanently. DO NOT REMOVE. Antipercolating jet (4) size No. 70 (.028 inch) drill.

Metering Rod: (Vacumeter type) see parts list for size.

Metering Rod Jet: Primary: Size (2317S-2444S) .089 inch, (2445S) .0935 inch diameter.

Secondary: Size (2317S) .053 inch, (2444S-2445S) .055 inch diameter.

Metering Rod Setting: See adjustments.

Accelerating Pump: Discharge jet (twin) primary side only, size No. 74 (.0225 inch) drill. Intake ball check seat, size .115 to .120 inch diameter. Discharge needle seat, size No. 50 (.070 inch) drill. Relief passage (vent) to fuel chamber, size No. 42 (.0935 inch) drill.

Pump Adjustment: See adjustments.

Choke: 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.

Vacuum Spark Port: Horizontal slot (round end) .045 x .110 inch. Top of port .035 to .045 inch above top edge of valve with valve tightly closed.

Motor Tune-Up-Be Accurate!

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

Spark Plug Gap .035" Breaker Point Setting .017" Ignition Timing
Breaker Points to Open:
10° B.T.D.C. (1955)
8° B.T.D.C. (1956)
At Vibration Damper
With engine idling at
500 R.P.M.

Valve Setting (Hot) Intake .015" Exhaust .025"

Float Setting See Adjustments Idle Adjustment Screw Setting 1/4 to 11/4 Turns Open Idle engine at 700 R.P.M. in neutral

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CARBURETER ADJUSTMENTS

FLOAT ADJUSTMENT: Two separate float adjustments must be made—lateral and vertical. LATERAL ADJUST-MENT: With bowl cover assembly inverted, bowl cover gasket removed and float resting on seated needle, place float gauge directly under center of floats with notched portion of gauge fitted over edge of casting. Side of floats should just clear the vertical uprights of float gauge. Adjustment should be made by bending arms of floats. VERTICAL ADJUSTMENT: With float gauge in same position, floats should just clear the horizontal portion of gauge. Vertical distance between top of float and machined surface of casting must be 7/32 inch (gauge T109-283) for primary floats; and 11/32 inch (gauge T109-285) for secondary floats. Adjust by bending float arms.

FLOAT DROP ADJUSTMENT: With bowl cover held in upright position and measuring from center of floats, the distance between top of floats and bowl cover should be 23/32 inch for primary floats and 27/32 inch for secondary floats. Adjust by bending stop tabs on float bracket.

PUMP ADJUSTMENT: Install pump connector link in outer hole (long stroke) of pump arm, with ends extending toward countershaft arm. Back out throttle lever set screw until throttle valves seat in bores of carbureter. Hold straight edge across top of dust cover boss at pump arm. The flat on top of pump arm should be parallel to straight edge. Adjust by bending throttle connector rod at upper angle. (Use tool T109-213.)

METERING ROD ADJUSTMENT: Metering rod adjustment is important and must be made after completing the pump adjustment. No metering rod gauges are necessary. Procedure is as follows: I. Back out throttle lever set screw to allow throttle valves to seat in bores of carbureter and loosen metering rod arm clamp screw. 2. With metering rods in place, press down on vacumeter link until metering rods bottom in carbureter body casting. 3. Holding rods in downward position and throttle valves seated, revolve metering rod arm until finger on arm contacts lip of vacumeter link. Hold in place and carefully tighten clamp screw.

BOWL VAPOR VENT ADJUSTMENT: This adjustment should be made after completing pump and metering rod

adjustments. Install dust cover and dust cover gasket. Back out throttle lever stop screw to allow throttle valves to seat in bores of carbureter. There should be 1/16 inch (gauge T109-197) between lower edge of bowl vapor vent valve and dust cover. To adjust, remove dust cover and bend vapor vent arm.

FAST IDLE ADJUSTMENT: (a) Loosen choke lever clamp screw on choke shaft. Insert .015 inch feeler gauge (T109-44) between lip of fast idle cam and boss of flange casting. Hold choke valve tightly closed and take slack out of linkage by pressing lever towards closed position—hold in place and tighten clamp screw. (b) With choke valve tightly closed, tighten fast idle adjustment screw until there is .006-.010 inch (gauge T109-200) opening between throttle valve and bore of carbureter (side opposite idle port). Be sure fast idle adjustment.

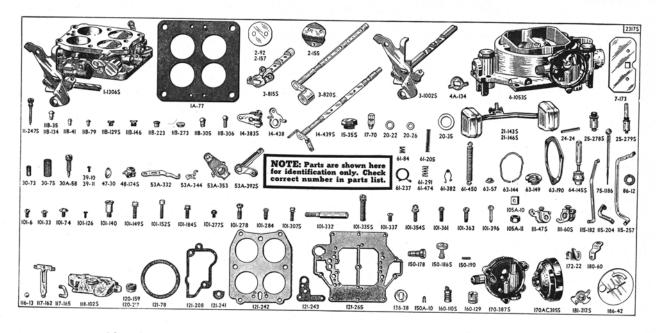
FAST IDLE ON CAR: 1450 to 1500 R.P.M.

UNLOADER ADJUSTMENT: With throttle wide open there should be 3/16 inch clearance between upper edge of choke valve and inner wall of air horn (gauge T109-28). Adjust by bending unloader lip on throttle shaft lever (use bending tool T109-41).

AUXILIARY THROTTLE VALVE ADJUSTMENT: (a) Disconnect secondary throttle operating rod. (b) Adjust stop lug on secondary throttle lever (use bending tool T109-214) until there is 27/64 inch clearance (gauge T109-242) between lower edge of auxiliary throttle valve and bore, when lug is against stop on flange.

SECONDARY THROTTLE LEVER ADJUSTMENT: The stop lug on both primary and secondary throttle levers should contact boss on flange at the same time. To adjust bend secondary throttle operating rod at angle (use bending tool T109-213). NOTE: Secondary throttle valves will be a few degrees from wide open position.

AUXILIARY THROTTLE LOCK-OUT ADJUSTMENT: This adjustment should be made after completing fast idle adjustment. I. With choke valve closed, edge of hook on lock-out arm should contact auxiliary throttle lever, making maximum contact of locking step on lever. 2. Open choke valve. Auxiliary throttle valve should become unlocked a few degrees before the choke reaches wide open position. Adjust by bending lock-out arm.



Chrysler "V-8"—1955-1956—Carbureters Nos. 2317S-2444S-2445S

WHEN SERVICING, USE GASKET ASSORTMENT No. 269A

Part No.	PART NAME	Part No.	PART NAME
1-13065	Body flange assembly (2317S)	11B-306	Rivet plug (2317S (2), (2444S-2445S (1)
I-1423S	Body flange assembly (2444S-2445S)	14-3835	Choke lever and screw assembly
IA-77	Flange gasket	14-438	Cam trip lever
2-92	Primary throttle valve(2)	14-4395	Choke piston lever, link and shaft assembly
2-155	Auxiliary throttle valve(2)	15-35S	Strainer nut assembly(2)
2-157	Secondary throttle valve(2)	17-70	Pump check needle
2-190	Primary throttle valve (2444S-2445S) (Sup. by 2-92)(2)	20-22	Needle seat gasket(2)
3-815\$	Secondary throttle shaft and operating lever assembly	20-26	Relief valve gasket
3-820S	Auxiliary throttle shaft, lever and weight assembly	20-35	Bowl strainer gasket(2)
	(2317S)	21-1435	Primary float and lever assembly
3-10025	Primary throttle shaft and lever assembly	21-1465	Secondary float and lever assembly
3- 10 70S	Auxiliary throttle shaft, lever and weight assembly (2444S-2445S)	24-24	Float lever pin(2)
4A-134	Primary throttle shaft dog	25-2785	Primary needle and seat assembly
6-1053S	Air horn assembly (2317S) (Casting No. 6-1020)	25-2795	Secondary needle and seat assembly
	(Sup. by 6-1175S)	30-73	Primary needle seat strainer
6-1175S	Air horn assembly (2444S-2445S) (Casting	30-75	Bowl strainer
	No. 6-1147)	30A-58	Idle adjustment screw(2)
7-173	Choke valve	39-10	Primary throttle valve attaching screw(4)
11-247\$	Low speed jet assembly(4)	39-11	Choke valve attaching screw(2)
11B-35	Rivet plug(6)	47-30	Welsh plug
11B-41	Rivet plug (6-1053S (2), (6-1175S (1)	48-1745	Pump jet and housing assembly
11B-79	Rivet plug (early prod. (4), (late prod. (3)	53A-332	Lockout arm
11B-129S	Pump discharge passage plug assembly	53A-344	Vent arm
11B-134	Rivet plug	53A-353	Primary operating lever
11B-146	Level sight plug(2)	53A-392S	Pump operating lever and countershaft assembly
11B-223	Nozzle passage and idle port rivet plug(8)	61-84	Idle adjustment screw spring(2)
IIB-273	Secondary throttle shaft rivet plug	61-205	Vacuum piston spring
11B-305	Rivet plug (23175 (1), (2444S-2445S (2)	61-237	Fast idle cam spring

Part No.	PART NAME	Part No.	PART NAME
61-291	Throttle lever adjusting screw spring	101-363	Piston housing attaching screw (23175 (1) with 6-10535, (2) with 6-11755), (24445-24455 (2)
61-382	Metering rod spring	101-396	Fast idle adjustment screw
61-413	Upper pump spring	103-14	Lead shot (late prod.)
61-450	Secondary throttle return spring	105A-10	Choke lever clamp screw nut
61-474	Bowl vent spring	105A-11	Flange stud nut(4)
63-57	Intake check ball retainer	111-47S	Pump arm and screw assembly
63-144	Delayer plate retainer ring	111-60S	Metering rod arm and screw assembly
63-149	Bowl vent spring retainer	115-182	Choke connector rod
63-176	Pump spring retainer	115-204	Throttle operating rod.
63-190	Coil housing retainer	115-257	Throttle connector rod
64-1455	Pump plunger and rod assembly	1.000 mar.	Pump intake check ball.
75-1178	Metering rod—I size lean .074" x .063" x .052"	116-13	
	(2317S)(2)	117-162	Vacumeter piston link
75-1179	Metering rod—2 sizes lean .075" x .065" x .055" (23175)(2)	117-165	Pump connector link
75-1186	Metering rod—standard .073" x .062" x .048"	118-1025	Dust cover assembly
75-1100	(2317S)(2)	120-159	Primary metering rod jet (2317S-2444S)(2)
75-1273	Metering rod—standard .073" x .062" x .053"	120-166	Primary metering rod jet (2445S)(2)
	(2444S)(2)	120-174	Secondary metering jet (2444S-2445S)(2)
75-1274	Metering rod—standard .078" x .070" x .045" {2445S}(2)	120-217	Secondary metering jet (2317S)(2) Coil housing gasket(2)
86-12	Flange stud lock washer(4)	121-78	
101-6	Pump arm clamp screw	121-208	Dust cover gasket
101-33	Metering rod arm clamp screw	121-241	Pump jet housing gasket
101-74	Throttle shaft screw	121-242	Body flange gasket
101-126	Auxiliary throttle valve attaching screw(4)	121-243	Piston housing gasket (2317\$ Use with 6-1053\$)
101-140	Fast idle cam screw	121-265	Air horn gasket
101-1495	Body flange attaching screw and washer assembly (4)	121-283	Piston housing gasket (23175 Use with 6-11755) (24445-24455)
101-1525	Air horn attaching screw and washer assembly	136-38	Throttle shaft washer
101-1845	Dust cover attaching screw and washer assembly(2)	150-178	Auxiliary valve lockout arm pin
101-275	Piston housing attaching screw (2317S Use with	150-186S	Pin and valve cap assembly
	6-1175S) (2444S-2445S)	150-190	Choke piston pin
101-2775	Vent arm attaching screw and washer assembly	150A-10	Pin spring(5)
101-278	Pump jet housing attaching screw	160-1105	Vacuum piston and pin assembly
101-284	Piston housing attaching screw (23175 (2) (Use	160-129	Choke piston
101-3075	Bracket and air horn attaching screw and	170-387S	Piston housing and plug assembly (2317\$ Use with 6-1053\$)
	washer assembly(8)	170- 4 45 S	Piston housing and plug assembly (23175 Use with 6-1175S) (2444S-2445S)
101-332	Throttle lever adjusting screw	170AC385S	Thermostatic coil and housing assembly
101-335\$	Air horn attaching screw and washer assembly(7)	172-22	Throttle connector rod retainer
101-337	Secondary throttle valve attaching screw(4)	180-60	Lever return spring bracket
101-3545	Choke lever clamp screw and washer assembly	181-212S	Fast idle cam assembly
101-361	Coil housing attaching screw(3)	186-42	Choke baffle plate

NOTE: Figures in parentheses indicate number of pieces used in one carbureter. Where no figure is shown, only one is used.

