CARTER CARBURETOR

DIVISION OF QCF INDUSTRIES INCORPORATED ST. LOUIS, MO., U. S. A.

CHRYSLER 2534S-2535S January, 1957 Revised June, 1957

25345

CHRYSLER "V-8"

2535S

Front Carbureter

MODEL C-300C

Rear Carbureter

1957

WCFB Four-Bore Down-Draft Climatic® Control Carbureters Nos. 25345 - 25355

CARBURETER SPECIFICATIONS

For Chrysler 8 Cylinder Engine: 4.0 Inch Bore, 3.9 Inch Stroke

DIMENSIONS: Flange size, 1-1/4 inch. Four Bore - 4 bolt type. Primary venturi size, 11/32 inch I.D. Main venturi (primary) size, 1-1/16 inch. Main venturi (secondary) size, 1-1/4 inch I.D.

VENTS: Outside, (4) in flange. Inside, (7) in air horn.

GASOLINE INTAKE: Size No. 42 (.0935 inch) drill hole in nee-

LOW SPEED JET TUBE: (Primary side only). Jet, size No. 67 (.032 inch) drill. By-pass, in body, size .057 inch diameter. Economizer, in body, size No. 54 (.055 inch) drill. Idle bleed, in body, size No. 44 (.086 inch) drill.

IDLE PORT: (Upper) slot type. Primary, length .156 inch; width .030 inch. Secondary, none.

IDLE PORT OPENING: Primary, .094 to .100 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: 1-1/4 to 2-1/4 turns open. For richer mixture turn screw out. Do not idle engine below 650 r.p.m. in neutral.

IDLE AIR ADJUSTING SCREW: Seat size . 187 inch diameter.

MAIN NOZZLE: Installed permanently. DO NOT REMOVE. Anti-percolating jet (primary, in plug) size No. 70 (.028 inch) drill; (secondary in plug) size No. 70 (.028 inch) drill.

METERING ROD (VACUMETER TYPE): See parts list for size.

METERING ROD JET: Primary, size .098 inch diameter (for metering rod). Secondary, size .065 inch diameter (no metering rod).

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 .070 inch diameter.

CHOKE: (2535S only) Carter Climatic (R) Control, set one point rich. Butterfly type--offset choke valve, primary side only. Choke heat suction hole, restriction in bushing between air horn and piston housing size No. 50 (.070 inch) drill.

VACUUM SPARK PORT: (2535S only) Horizontal slot (round end) $.064 \times .120$ inch. Top of port .024 to .032 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 Points Breaker Points to Open: 4° B.T.C. At Vibration Damper

Valve Setting (Hot) Intake .015" Exhaust .024"

Float Setting Primary 5/32 Inch (Use Gauge T109-236) Secondary 7/32 Inch (Use Gauge T109-283) Idle Adjustment Screw Setting 1-1/4 to 2-1/4 Turns Open Idle Engine at 650 R.P.M. In Neutral

CARBURETER ADJUSTMENTS

FLOAT ADJUSTMENT: Two separate float adjustments must be made - lateral and vertical. LATERAL ADJUSTMENT: With bowl cover assembly inverted, bowl cover gasker 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 center of float and machined surface of casting must be 5/32 inch (gauge T109-236) for primary floats and 7/32 inch (gauge T109-283) for secondary floats. Adjust by bending float arms.

FLOAT DROP ADJUSTMENT: With bowl cover held in upright

position and measuring from center of float, the distance be-tween top of floats and bowl cover should be 21/32 inch for primary floats and 23/32 inch for secondary floats. Adjust

by bending stop tabs on float brackets.

PUMP ADJUSTMENT: Install pump connector link in center hole (medium stroke) of pump arm, with ends extending toward countershaft arm. Back out throttle lever stop 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 bend-

ing throttle connector rod at lower 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: 1. Back out throttle lever stop 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

FAST IDLE ADJUSTMENT: (2535S only) (a) Loosen choke lever clamp screw on choke shaft, Insert .010 inch feeler gauge (T109-200) between lip of fast idle cam and boss of flange casting. Hold choke valve tightly closed and take slack out of linkage by pressing choke lever towards closed position--hold in place and tighten clamp screw. (b) With choke valve tightly closed bend fast idle adjusting tang until there is .018 inch (gauge T109-44) opening between throttle valve and bore of carbureter side opposite idle port. Be sure fast idle adjusting tang is on high step of cam while making this adjustment.

FAST IDLE ON CAR: (2535S only) 1450 to 1500 R.P.M. hot engine with idle adjusting tang on high step of cam.

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UNLOADER ADJUSTMENT: (2535S only) With throttle wide open there should be 1/8 inch (gauge T109-36) clearance between upper edge of choke valve and inner wall of air horn. Adjust by bending unloader lip on throttle shaft lever (use bending tool T109-41).

BOWL VAPOR VENT ADJUSTMENT: This adjustment should

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.

SECONDARY THROTTLE LEVER ADJUSTMENT: Primary

SECONDARY THROTTLE LEVER ADJUSTMENT: Primary and secondary throttle valves should reach wide open position at the same time. To adjust, bend throttle operating rod at angle. (Use bending tool T109-213.) With primary and secondary throttle valves in tightly closed position there should be .017-.022 inch (gauge T109-29) clearance between positive

closing shoes on primary and secondary throttle levers. To adjust, bend shoe on primary lever.

AUXILIARY THROTTLE LOCK—OUT ADJUSTMENT: (25355 only) This adjustment should be made after completing fast idle and secondary throttle lever adjustments. Crack throttle valves and hold choke valve tightly closed. Then close throttle. Lock-out dog on auxiliary throttle shaft should freely engage in notch of lock-out arm. If necessary to adjust, bend lock-out dog on auxiliary throttle shaft. IDLE SPEED AND MIXTURE ADJUSTMENT (NORMAL ENGINE TEMP.): In making the idle adjustment on the engine the air adjustment screw is used to adjust idle speed in a similar manner as the throttle speed screw used previously. Turning the air adjustment screw outward increases engine speed, but also leans the mixture supplied to the manifold which must

be compensated for by adjustment of the idle mixture adjusting

CHRYSLER "V-8" - 1957 - Carbureters Nos. 2534S-2535S WHEN SERVICING, USE CASKET ASSORTMENT No. 310

	WHEN SERVICING, USE GASI	CE I ASSURTME	:NI No. 310
Part No.	PART NAME	Part No.	PART NAME
1-14975	Body flange assembly (2535S)	75-1372	Metering rod - standard78" x .070" x
1-15028	Body flange assembly (2534S)		.040" (sup. by 75-1263) "(2)
1A-110	Flange gasket	86-12	Flange stud lock washer(4)
2-189	Primary throttle valve(2)	101-6	Pump arm clamp screw
2-201	Secondary throttle valve (2)	101-33	Metering rod arm clamp screw
2-206	Auxiliary throttle valve	101-65	Lockout dog attaching screw (2535S)
	Secondary throttle shaft and dog assembly	101-74	Throttle shaft screw
3-10965	Primary throttle shaft and lever assembly	101-1495	Body flange attaching screw and washer ass'y.
3-11485		101-1528	Air horn attaching screw and washer assembly
2 11400	(2535S)	101-1845	Dust cover attaching screw and washer ass'y(2)
3-11495	Auxiliary throttle shaft and weight ass'y	101-1043	Piston housing attaching screw (2535S)
3-1150\$	Primary throttle shaft and lever ass'y, (2534S)	101-2775	Vent arm attaching screw and washer ass'y.
4A-179	Auxiliary throttle shaft lockout dog (2535S)		Pump jet housing attaching screw
6-13095	Air horn assembly (2535S)	101-278	De de flance stagbing screw and washer
6-13125	Air horn assembly (2534S)	101-2985	Body flange attaching screw and washer
7-173	Choke valve (2535S)	2500 101	assembly(2)
11-3065	Low speed jet assembly (.0292") (sup. by	101-3075	Bracket and air horn attaching screw and
	11-311S) (2)		washer assembly(8)
11-3115	Low speed jet assembly (.032")(2)	101-320	Auxiliary throttle valve attaching screw (4)
11B-35	Rivet plug (4)	101-324	Fast idle cam screw (2535S)
11B-41	Rivet plug (2535S)	101-3358	Air horn attaching screw and washer
11B-79	Rivit plug (early prod. (4) (late prod(1)		assembly(7)
11B-129S	Pump discharge passage plug assembly	101-354\$	Choke lever clamp screw and washer
11B-134	Rivet plug		assembly (2535S)
11B-223	Rivet plug (4)	101-363	Piston housing attaching screw (2535S)(2)
11B-272	Rivet plug(2)	101-3825	Body flange attaching screw and washer
11B-294	Idle port rivet plug (2)		assembly(3)
11B-305	Rivet plug(2)	101-391	Throttle lever adjusting screw
11B-306	Rivet plug	101-420	Primary and Secondary throttle valve
14-3835	Choke lever and screw assembly (2535S)		attaching screw(8)
14-4395	Choke piston lever, link and shaft ass'y,	101-426	Coil housing attaching screw (2535S)(3)
14-4373	(2535S)	103-11	* Lead shot (early prod.)(Sup by 136-199)(2)
14 440	Cam trip lever (2535S)	103-14	Lead shot (2534S lafe prod. (4) 2535S late
14-440		105-14	prod. (3)(3)
15-635	Strainer nut assembly(2) Pump check needle	105A-10	Choke lever clamp screw nut (2535S)
17-70			
20-26	Relief valve gasket	105A-11	Flange stud nut
20-126	Needle seat gasket(2)	111-605	Metering rod arm and screw assembly
20-127	Bowl strainer gasket (2)	111-785	Pump arm and screw assembly
21-1435	Primary float and lever assembly	114-139	Throttle shaft arm (inner)
21-1685	Secondary float and lever assembly	114-145	Throttle shaft arm (outer)
24-24	Float lever pin(2)	115-215	Choke connector rod (2535S)
25-2785	Primary needle and seat assembly	115-216	Throttle connector rod
25-2795	Secondary needle and seat assembly	115-292	Throttle operating rod
30-73	Primary needle seat strainer	116-13	Pump intake check ball
30-74	Secondary fuel inlet strainer	117-162	Vacumeter piston link
30-75	Bowl strainer	117-165	Pump connector link
30A-67	Idle adjustment screw(2)	118-1028	Dust cover assembly
30 A-79	Idle air adjustment screw (2)	118-1355	Dust cover assembly (Sup. by 118-102S)
39-11	Choke valve attaching screw (2535S)(2)	120-163	Primary metering rod jet(2)
47-30	Welsh plug (choke housing) (2535S)	120-226	Secondary metering jet(2)
47-33	Welsh plug (spark port)	121-78	Coil housing gasket (2535S)
48-1745	Pump jet and housing assembly	121-208	Dust cover gasket
53A-333S	Pump operating lever and countershaft ass'y.	121-241	Pump jet housing gasket
53 A-344	Vent arm	121-265	Air horn gasket
53 A-417	Lockout arm (2535S)	121-277	Body flange gasket
61-84	Idle adjustment screw spring(2)	121-291	Heat tube cap gasket (2535S)
	Connector rod spring	121-298	Piston housing gasket (25355)
61-128			Throttle operating rod washer(5)
61-205	Vacuum piston spring Throttle lever adjusting screw spring	136-37	Throttle shaft spring washer(5)
61-291	Matering rod spring	136-84 136-159	Throttle shaft washer
61-382	Metering rod spring		Copper washer (lat prod.) (Use with 101-298S)
61-413	Upper pump spring (25255)	136-199	Copper washer (lat prod.) (Ose with 101-2965)
61-454	Fast idle cam spring (2535S)	145-142	Choke vacuum passage standpipe (2534S early
61-474	Bowl vent spring	143-142	
61-483	Secondary throttle return spring	145 140	prod.) (2535S)
61-593	Lockout arm spring (2535S)	145-148	Cross over bowl vent tubes(2)
61-595	Idle air adjustment screw spring	150-1865	Pin and valve cap assembly
63-35	Connector rod spring retainer	150-190	Choke piston pin (2535S)
63-57	Intake check ball retainer	150 A-10	Pin spring(5)
63-144	Delayer plate retainer ring (2535S)	160-1105	Vacuum piston and pin assembly
63-149	Bowl vent spring retainer	160-128	Choke piston (2535S)
63-176	Pump spring retainer	170-4895	Piston housing and plug assembly (3535S)
63-225	Coil housing retainer (2535S)	170 AW484S	Thermostatic coil and housing assembly (2535S)
63-229	Heat tube retainer (2535S)	181-1925	Fast idle cam assembly (2535S) (Sup. by
64-145S	Pump plunger and rod assembly	Carrier Programme	181-204S)
75-1263	Metering rod - standard075" x .065"	181-2045	Fast idle cam assembly (2535S)
	x .042" (2)	184-88	Choke heat tube cap (2535S)
		186-42	Choke baffle plate (2535S)
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