1976 "V8"
CORDOBA S - CHARGER X
DART L - DODGE D,W. - PLYMOUTH P,R
VALIANT V
ASPEN N - VOLARÉ H

BBD DUAL DOWN–DRAFT CLIMATIC CONTROL CARBURETOR NOS. 8069S – 8070S – 8071S – 8099S – 8109S

MODEL		ENG. DISPL.	C.F.M.	ORIGINAL CARB.	ZIP KIT NO.
V, L, H, N, R, W, S, X, P, D (exc. Calif.)	A/T	318	280	8069S	902-311
V, L, H, N, R, W, S, X, P, D (Calif.) (Early)	A/T	318	280	8070S	902-311
V, L, H, N, R, W, S, X, P, D (exc. Calif.)	M/T	318	280	8071S	902-311
V, L, H, N, R, W, S, X (exc. Wagon)	A/T	318	280	8099S	902-311
V, L, H, N, R, W, S, X, P, D (Calif.) (Late)	A/T	318	280	8109S	902-311

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

(SEE BACK PAGE FOR PROCEDURE)

CARB. NO.	THRO. BORE	FLOAT	PUMP	FAST IDLE CAM LINKAGE	CHOKE VACUUM KICK	UNLOADER	FAST IDLE RPM	IDLE SETTING	
								SET SPEED SCREW RPM	SET SOLENOID PLUNGER SCREW-RPM
8069S	1-7/16	1/4	1/2	5/64	5/64	31/32	1500	750	–
8070S, 8109S	1-7/16	1/4	1/2	5/64	7/64	5/16	1500	750	–
8071S	1-7/16	1/4	1/2	5/64	1/8	9/32	1500	750	–
8099S	1-7/16	1/4	15/32	5/64	7/64	5/16	1500	750	–

MOTOR TUNE-UP — BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER, NEEDLE & SEAT TO RESTORE TOP PERFORMANCE, THESE PARTS ARE AVAILABLE IN CARTER ZIP KIT LISTED ABOVE.

INSTALL NEW CHOKE ASSEMBLY AT EVERY TUNEUP.

Carter Carburetor Division

Printed in U.S.A.

St. Louis, Missouri 63132 U.S.A.

CARBURETOR ADJUSTMENTS

FLOAT LEVEL: Hold float lip against seated needle lightly. The dimension between top of float (at center) and top of bowl should be as specified. To adjust bend lip of float.

PUMP: Turn curb idle screw two (2) full turns clockwise from the seated position. The dimension from the top of the pump shaft to the top of bowl cover should be as specified. To adjust, loosen pump arm lock screw and revolve pump arm. Tighten screw.

METERING ROD: Loosen metering rod arm screw, press downward on piston plate until metering rods bottom. With throttle valve seated revolve metering rod arm until lip contacts piston plate, then tighten clamp screw.

FAST IDLE LINKAGE: With fast idle screw on the second highest step of cam, the dimension between the top edge of choke valve and wall of air horn should be as specified. To adjust, bend connector rod.

CHOKE VACUUM KICK: By using an outside vacuum source fully depress diaphragm and close choke valve as far as possible without forcing. The dimension between top edge of choke valve and wall of air horn should be as specified. To adjust, open or close the "U" bend of connector link.

UNLOADER: With throttle valves wide open close choke valve as far as possible without forcing. The dimension between top edge of choke valve and wall of air horn should be as specified. To adjust, bend tang on throttle lever.

DASHPOT: With throttle held at 2500 R.P.M., adjust dashpot so that stem just contacts lever. Tighten lock nut.

E.G.R. UNIT: With throttle valves wide open and plunger on E.G.R. unit fully depressed, adjust unit to have 1/32" clearance between lever and plunger.

IDLE STOP SOLENOID (8099 only): With solenoid disconnected, adjust idle speed screw to specified RPM. After this adjustment has been made, connect solenoid, loosen lock nut and adjust solenoid to specified RPM. Tighten lock nut.

FAST IDLE ADJUSTMENT: With fast idle screw on second step of cam, adjust screw to give specified R.P.M.

PARTS LIST

PART NO.	PART NAME	
*1A-316	Flange gasket	
2-317	Throttle valve (8069, 71)	
2-321	Throttle valve (8069, 71-1)(8070, 99, 8109-2)	
3-1950S	Throttle shaft & lever assembly (8071	
3-1952S	Throttle shaft & lever assembly (8069, 70)	
3-1970S	Throttle shaft & lever assembly (8099)	
3-1976S	Throttle shaft & lever assembly (8109)	
7-329	Choke valve	
14-992	Choke lever	
14-993S	Choke lever & shaft assembly	
20-203	Needle seat gasket	
21-235S	Float assembly	
24-23	Float pin	
*25-1003S	Needle & seat assembly	
30A-198	Idle mixture screw	(2)
53A-583	EGR operating lever (8109)	
51-96	Throttle shaft collar	
61-58	Idle & fast idle speed screw spring	(2)
61-205	Step-up piston spring (8070, 99, 8109)	
61-226	Step-up piston spring (all exc. 8070, 8109)	
61-413	Pump spring	
61-873	Idle mixture screw spring	(2)
*61-970	Idle enrichment diaphragm spring (8069, 70, 99, 8109)	
61-1024	Throttle return spring	
63-238	Float pin retainer	
*63-336	Retainer	(2)
*64-435S	Pump plunger & rod assembly	
75-2146	Metering rod (.069"x.060"x.052")(8069)	(2)
75-2152	Metering rod (.0685"x.062"x.052")(8070,8109)	(2)
75-2155	Metering rod (.0695"x.063"x.054")(8071)	(2)
75-2158	Metering rod (.0695"x.056"x.045")(8099)	(2)
*96-40	Idle mixture screw limiter cap	(2)
101-296	Fast idle speed screw	
101-307S	Air horn screw assy.(8069,70,8109-4)(8071,99,8109-2)	
101-419	Throttle valve screw (8069, 70,71)	(4)
101-428	Choke diaphragm bracket screw	(2)
101-521S	Bowl cover screw assembly (8071)	(2)
101-537	Idle enrich. diaphragm cov. screw(8069,70,99,8109)	(3)
101-544S	Body screw assembly	
101-563	Idle speed screw	
101-565	Fast idle cam screw	
101-569	Venturi cluster screw (8070, 8109)	(2)
101-579	Venturi cluster screw (8071, 99)	(2)
101-596	Choke valve screw	(2)
101-634	Choke lever screw	
101-635	EGR bracket screw	
101-639	Venturi cluster screw (8069)	(2)
101-680S	Body flange screw assembly	(2)
101-707	Pump & metering rod arm screw	(2)
101-713	Bowl cover screw (exc. 8109)	(2)
101-714	Dust cover screw	(3)
101-726	Throttle valve screw (8099, 8109)	(4)
101-731	EGR lever screw (8109)	
103-14	Lead Shot	
103-15	Lead Shot	(2)
105A-51	Solenoid lock nut (8099)	
105A-60	Dashpot lock nut (8071)	
105A-70	EGR valve lock nut	
111-118	Metering rod arm	
111-120	Pump arm	
113-220S	Pump & metering rod countershaft assy.	
115-538	Choke connector rod	
115-546	Throttle connector rod	
115-560	Fast idle connector rod	
*116-13	Pump discharge check ball	
*116-18	Pump intake check ball	
117-217	Pump link	
118-331	Dust cover (8071)	
118-335S	Venturi cover assembly (8099)	
118-343	Dust cover (8069, 70, 99, 8109)	
118-344S	Venturi cover assembly (8071)	
118-345S	Venturi cover assembly (8069, 70, 8109)	
120-389	Main metering jet (.089")(all exc. 8099)	(2)
120-392	Main metering jet (.092")(8099)	(2)
*121-753	Venturi housing gasket	
*121-759	Dust cover gasket	
*121-760	Body gasket	
*121-801	Venturi cover gasket	
*121-805	Body flange gasket	
122-184A	EGR valve assembly (8109)	
136-131	EGR washer	
136-326	Pump & metering rod arm washer	(2)
145-303	Choke diaphragm hose	
145-525	Idle enrichment diaphragm hose	
145-566	EGR hose	
160-337S	Vacuum piston assembly	
170-982S	Thermostatic coil, housing & rod assembly	
170-1228	Idle enrichment diaphragm cover (8069,70,99,8109)	
180-144	Dashpot bracket (8071)	
180-269	Solenoid bracket (8099)	
180-290	EGR valve bracket	
181-488	Fast idle cam (8071)	
181-489	Fast idle cam (8069, 70, 99, 8109)	
186-149	Fuel bowl baffle	
202-462A	Dashpot assembly (8071)	
*202-590S	Choke diaphragm & bracket assembly (8069)	
202-591S	Choke diaphragm & bracket assy.(8070,71,99,8109,15)	
*203-430S	Idle enrichment diaphragm(8069, 70, 99, 8109)	
213-77A	Solenoid assembly (8099)	

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

**Parts Available In Zip Kit Only*

1976 "V8" DODGE TRUCK

BBD DUAL DOWN-DRAFT CLIMATIC CONTROL **CARBURETOR NOS. 8080S – 8081S – 8082S 8085S – 8108S – 8115S**

MODEL		ENGINE DISPL.	C.F.M.	ORIGINAL CARB. NO.	ZIP KIT NO.
D-1, W-1, B-1,2 (Non Calif.) (Early)	M/T	318-1	285	8080S	902-311
D-1, W-1, B-1,2 (Calif.)	A/T	318-1	285	8081S	902-311
D-1, W-1, B-1,2 (Calif.)	M/T	318-1	285	8082S	902-311
D-1, W-1, B-1,2 (Non-Calif.) (Late)	M/T	318-1	285	8085S	902-311
D-1, W-1, B-1,2	A/T	318-1	285	8108S	902-311
D-1, B-1, 2 W/4 Speed O.D. (exc. Calif.)	M/T	318-1	285	8115S	902-311

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

(SEE BACK PAGE FOR PROCEDURE)

CARB. NO.	THRO. BORE	FLOAT	PUMP	FAST IDLE LINKAGE	VACUUM CHOKE BREAK	UNLOADER
8080S	1-7/16	1/4	1/2	5/64	9/64	9/32
8081S	1-7/16	1/4	1/2	5/64	5/32	5/16
8082S	1-7/16	1/4	1/2	5/64	9/64	9/32
8085S	1-7/16	1/4	1/2	5/64	9/64	9/32
8108S	1-7/16	1/4	1/2	5/64	5/32	5/16
8115S	1-7/16	1/4	1/2	5/64	9/64	9/32

MOTOR TUNE-UP — BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER, NEEDLE & SEAT TO RESTORE TOP PERFORMANCE. THESE PARTS ARE AVAILABLE IN CARTER ZIP KIT LISTED ABOVE.

INSTALL NEW CHOKE ASSEMBLY AT EVERY TUNEUP.

Carter Carburetor Division acf

Printed in U.S.A.

St. Louis, Missouri 63132 U.S.A.

CARBURETOR ADJUSTMENTS

FLOAT LEVEL: Hold float lip against seated needle lightly. The dimension between top of float (at center) and top of bowl should be as specified. To adjust, bend lip of float.

PUMP: Turn curb idle screw two (2) full turns clockwise from the seated position. The dimension from the top of the pump shaft to the top of bowl cover should be as specified. To adjust, loosen pump arm lock screw and revolve pump arm. Tighten screw.

METERING ROD: Loosen metering rod arm screw, press downward on piston plate until metering rods bottom. With throttle valve seated revolve metering rod arm until lip contacts piston plate, then tighten clamp screw.

FAST IDLE LINKAGE: With fast idle screw on the second highest step of cam, the dimension between the top edge of choke, valve and wall of air horn should be as specified. To adjust, bend connector rod.

VACUUM CHOKE BREAK: By using an outside vacuum source fully depress diaphragm and close choke valve as far as possible without forcing. The dimension between top edge of choke valve and wall of air horn should be as specified. To adjust, open or close the "U" bend of connector link.

UNLOADER: With throttle valves wide open close choke valve as far as possible without forcing. The dimension between top edge of choke valve and wall of air horn should be as specified. To adjust, bend tang on throttle lever.

DASHPOT: With throttle held at 2500 R.P.M., adjust dashpot so that stem just contacts lever. Tighten lock nut.

PARTS LIST

PART NO.	PART NAME	
*1A-316	Flange gasket	
2-321	Throttle valve	(2)
3-1950S	Throttle shaft & lever assembly (all exc. 8085, 8115)	
3-1952S	Throttle shaft & lever assembly (8085)	
3-1972S	Throttle shaft & lever assembly (8115)	
7-329	Choke valve	
14-992	Choke lever	
14-993S	Choke lever & shaft assembly	
20-203	Needle seat gasket	
21-235S	Float assembly	
24-23	Float pin	
*25-1003S	Needle & seat assembly	
30A-198	Idle mixture screw	(2)
51-96	Throttle shaft collar	
61-58	Idle & fast idle speed screw spring	(2)
61-205	Step-up piston spring	
61-413	Pump spring	
61-873	Idle mixture screw spring	(2)
*61-970	Idle enrichment diaphragm spring (8081, 8108)	
61-1014	Throttle return spring	
63-238	Float pin retainer	
*63-336	Retainer	(2)
*64-435S	Pump plunger & rod assembly	
75-2104	Metering rod (.072"x.0575"x.047")(8082)	(2)
75-2105	Metering rod (.072"x.0585"x.047")(8080, 85)	(2)
75-2128	Metering rod (.070"x.061"x.047")(8108)	(2)
75-2158	Metering rod (.0695"x.056"x.045") (8081)	(2)
75-2170	Metering rod (.065"x.058"x.052")(8115)	(2)
*96-40	Idle mixture screw limiter cap	(2)
101-296	Fast idle speed screw	
101-307S	Air horn screw assembly (8081, 85 - 4) (8080, 82, 8108, 15-2)	
101-428	Choke diaphragm bracket screw	(2)
101-521S	Bowl cover screw assembly (8080, 82)	(2)
101-537	Idle enrichment diaphragm cover screw (8081, 8108)	(3)
101-544S	Body screw assembly	(2)
101-563	Idle speed screw	
101-565	Fast idle cam screw	
101-579	Venturi cluster screw (8081,8115)	(2)
101-596	Choke valve screw	
101-634	Choke lever screw	
101-639	Venturi cluster screw (8085)	(2)
101-680S	Body flange screw assembly	(2)
101-687	Venturi cluster screw (8082, 8115)	(2)
101-707	Pump & metering rod arm screw	(2)
101-714	Dust cover screw	
101-726	Throttle valve screw	(4)
103-14	Lead shot	
103-15	Lead shot	(2)
103-20	Lead shot	(2)
105A-60	Dashpot lock nut (8080, 82)	
111-118	Metering rod arm	
111-120	Pump arm	
113-220S	Pump & metering rod countershaft assembly	
115-538	Choke connector rod	
115-546	Throttle connector rod	
115-560	Fast idle connector rod	
*116-13	Pump discharge check ball	
*116-18	Pump intake check ball	
117-217	Pump link	
118-335S	Venturi cover assembly (8081, 8108)	
118-337S	Venturi cover assembly (8080, 82, 85)	
118-343	Dust cover	
118-345S	Venturi cover assembly (8115)	
120-389	Main metering jet (.089") (8115)	(2)
120-392	Main metering jet (.092") (all exc. 8108, 8115)	(2)
120-393	Main metering jet (.093") (8108)	(2)
*121-753	Venturi housing gasket	
*121-759	Dust cover gasket	
*121-760	Body gasket	
*121-801	Venturi cover gasket	
*121-805	Body flange gasket	
136-326	Pump & metering rod arm washer	(2)
145-303	Choke diaphragm hose (8115)	
145-525	Idle enrichment diaphragm hose (8081, 8108)	
160-337S	Vacuum piston assembly	
170-982S	Thermostatic coil, housing & rod assembly	
170-1228	Idle enrichment diaphragm cover (8081, 8108)	
180-144	Dashpot bracket (8080, 82)	
181-488	Fast idle cam (8080, 82, 85, 8115)	
181-489	Fast idle cam (8081, 8108)	
186-149	Fuel bowl baffle	
202-462S	Dashpot assembly (8080, 82)	
202-590S	Choke diaphragm & bracket assembly (8081)	
202-591S	Choke diaphragm & bracket assembly (all exc. 8081)	
*203-430S	Idle enrichment diaphragm (8081, 8108)	

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

* Parts are available in Zip Kit only

CARTER®

Form 5624B
NOVEMBER, 1974
Revised January, 1976

1975-76 "V8"

CHRYSLER C, - DODGE D, W

DART L CORDOBA S PLYMOUTH P, R

CHARGER X - VALIANT V

TQ FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOs. 9002S – 9004S – 9055S – 9072S

	MODEL		ENGINE DISPL.	C.F.M.	ORIGINAL CARB. NO.	ZIP KIT NO.
1975-76	V, L	A/T	360	850	9002S	902-310
1975	V, L, R, W, X, S, P, D, C (Calif.) Early	A/T	360	850	9004S	902-310
1976	L, D (Mexico only)	All/T	360	850	9004S	902-310
1975	V, L, R, W, X, S, P, D, C (Calif.) Late	A/T	360	850	9072S	902-310
1976	V, L, R, W, X, S, P, D, C (Calif.)	A/T	360	850	9055S	902-310

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	FLOAT LEVEL	PUMP	VACUUM KICK	FAST IDLE CAM LINKAGE	FAST IDLE R.P.M.	UN-LOADER	BOWL VAPOR VENT
9002S	1-1/2 (P) 2-1/4 (S)	29/32	1/2	5/32	3/32	1700	5/16	13/16
9004S	1-1/2 (P) 2-1/4 (S)	31/32	1/2	5/32	3/32	1700	5/16	13/16
9072S	1-1/2 (P) 2-1/4 (S)	31/32	1/2	5/32	3/32	1700	5/16	13/16
9055S	1-1/2 (P) 2-1/4 (S)	31/32	1/2	5/32	3/32	1700	5/16	13/16

MOTOR TUNE-UP — BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER, NEEDLE & SEAT TO RESTORE TOP PERFORMANCE. THESE PARTS ARE AVAILABLE IN CARTER ZIP KIT LISTED ABOVE.

INSTALL NEW CHOKE PULL OFF AND/OR CHOKE ASSEMBLY AT EVERY TUNEUP.

Carter Carburetor Division acf

Printed in U.S.A. St. Louis, Missouri 63132 U.S.A. FORM 5624B

CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFICATIONS

FLOAT LEVEL: With bowl cover inverted, gasket installed and floats resting on seated needle, the dimension of each float from bowl cover gasket to bottom side of float at outer end should be as specified. To adjust bend lever. *NOTE: Never allow lip of float to be pressed against needle when adjusting.*

SECONDARY THROTTLE LINKAGE: Open throttle valves to the wide open position. The primary and secondary throttle shaft stops, should contact casting at the same time. To adjust bend link. Do not attempt to adjust secondary throttle valves to the wide open position.

SECONDARY THROTTLE LEVER PICK-UP: Apply light pressure downward on the fast idle screw to move choke control lever to the wide open choke position. The clearance between pick-up lever and top of secondary lever should be .075". To adjust bend rear tang on throttle lever.

PUMP: Install pump connector link in inner hole of pump arm. Turn curb idle screw two full turns clockwise from the seated valve position. The dimension from top of plunger shaft and bowl cover should be as specified. To adjust bend connector rod.

AIR VALVE OPENING: With air valve wide open there should be 1/2" between air horn wall and inner edge of air valve. To adjust bend corner of air valve with pliers.

AIR VALVE SPRING: 1. Loosen lock plug. Rotate adjustment plug (inner) clockwise to allow air valve to position itself to wide open. 2. Check to see that air valve and shaft are operating freely. 3. To adjust rotate adjustment plug (inner) counter-clockwise until air valve just contacts the stop. Then turn 1¼ additional turn. While holding the adjustment plug in this position, tighten lock plug.

DIAPHRAGM CONNECTOR ROD: With diaphragm stem fully depressed and air valve closed, there should be .040 inch between air valve and stop. To adjust bend diaphragm connector rod.

VACUUM KICK: Bottom the vacuum diaphragm by using an outside source of vacuum, or by pressing downward on end of diaphragm stem. Apply light pressure on choke lever to close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust bend tang on choke lever.

FAST IDLE CAM AND LINKAGE: With fast idle screw on second highest step of fast idle com, close choke valve as far as possible. The dimension between the lower edge of choke valve and inner wall of air horn should be as specified. To adjust bend connector rod.

UNLOADER: With throttle valves wide open, close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust bend front tang on fast idle control lever.

BOWL VAPOR VENT (ON CAR): With throttle valves set at curb idle, remove plug from air horn and insert a narrow ruler in hole. Rest ruler lightly on top of valve. The dimension from top of valve to top of casting should be as specified. To adjust bend operating lever.

FAST IDLE ON CAR: With fast idle screw on second step and against shoulder of first step of cam, adjust fast idle screw to specified R.P.M.

THROTTLE POSITION SOLENOID (CATALYST PROTECTION SYSTEM): (9004)

1. Disconnect the wire from the throttle position solenoid and hold the throttle open. Apply battery voltage directly to the solenoid wire. The solenoid stem should extend positively and maintain its extended position. If it does not, replace the solenoid, remove the battery voltage from the solenoid and release the throttle.
2. Connect a tachometer and start the engine, again apply battery voltage to the solenoid. Raise the engine speed sufficient to insure that the solenoid is fully extended. Adjust contact screw on lever to 1500 RPM engine speed. Allow time for OSAC to provide vacuum spark advance and engine speed to stabilize.
3. Disconnect the battery voltage wire and reconnect the solenoid wire to the electronic speed switch.
4. Slowly accelerate the engine from idle. As the engine speed passes approximately 2000 RPM the solenoid stem should extend positively and maintain its extended position. Next, slowly decelerate the engine. At or before the engine speed reaches 1800 RPM, the solenoid should deactivate. If the solenoid does not respond properly the speed switch must be replaced.

CURB IDLE SPEED SOLENOID ADJUSTMENT: (9002) With engine running (with solenoid energized if equipped), adjust the idle mixture screws and fast curb idle adjusting screw (against solenoid plunger) to secure specified engine rpm (refer to decal in engine compartment). After specified rpm has been obtained and with engine still running (with solenoid energized), adjust slow curb idle speed screw until end of screw just touches stop. Now, back off one full turn to obtain slow curb idle speed setting.

PARTS LIST

PART NO.	PART NAME	
*1A-368	Flange gasket	
7-328	Air valve	
7-340S	Choke valve assembly	
*11B-294	Bowl vent plug	
11B-487	Air valve adjustment plug	
11B-488	Air valve plug	
13-326	Choke shaft lever	
13-327S	Air valve shaft & lever assembly	
14-999	Choke lever (all exc. 9055)	
14-1000	Choke countershaft lever (9002, 04)	
14-1027	Choke lever (outer) (9002, 04)	
14-1035	Choke lever (outer) (9055, 72)	
15-57	Fuel inlet fitting	
17-70	Pump discharge check needle	
20-239	Needle seat gasket	(2)
*20-243	Fuel inlet fitting gasket	
20-282	Idle enrichment screw gasket	
21-252S	Float assembly	(2)
24-15	Metering rod arm pin	
24-34	Float pin	(2)
*25-1086S	Needle & seat assembly	(2)
30A-207	Idle mixture screw (9055)	(2)
30A-212	Idle mixture screw (all exc. 9055)	(2)
48-369S	Pump jet & housing assy. (all exc. 9055)	
48-376S	Pump jet & housing assy. (9055)	
53A-526S	Bowl vent operating lever assembly	
53A-563S	Fast idle operating arm assembly	
53A-565	Bowl vent arm	
53A-566	Bowl vent operating arm	
53A-572S	Solenoid operating lever assembly (9002, 04)	
61-84	Fast idle speed screw spring	
61-761	Pump spring (upper)	
61-873	Idle mixture & solenoid adjusting screw spring	(3)
61-886	Air valve spring	
61-912	Bowl vent arm spring	
61-915	Vacuum piston spring (9002, 55)	
61-956	Idle speed screw spring	
61-960	Vacuum piston spring (9004)	(2)
61-970	Idle enrichment diaphragm spring	
61-979	Choke lever spring (9072)	
61-1040	Choke lever spring	
61-1044	Vacuum piston spring (9072)	
63-336	Retainer	(5)
63-426S	Intake check retainer assembly (use 64-447U)	
64-432S	Pump plunger assembly (use 64-447U)	
64-439S	Pump plunger assembly (use 64-447U)	
64-447U	Unitized package (consists of 1-63-426S, 1-64-439S)	
65-68	Step-up piston cover plate (Early)	
65-80	Step-up cover plate (L-H)	
65-81	Step-up cover plate (R-H)	
65-87	Step-up piston cover plate (Late)	
68-1A	Altitude compensator (9004, 72)	
72-94S	Idle enrichment assembly (9004)	
72-96S	Idle enrichment assembly (9002)	
72-99S	Idle enrichment assembly (9072)	
72-101S	Idle enrichment assembly (9055)	
75-1962	Metering rod (.067"x.055"x.045") (9055)	(2)
75-1998	Metering rod (.070"x.057"x.040") (9002)	
75-2086	Metering rod (.069"x.061"x.040") (9004)	(2)
75-2144	Metering rod (.069"x.061"x.050") (9072)	(2)
*96-40	Idle mixture screw limiter cap	(2)
101-362S	Idle enrichment screw (short) (9002)	(2)
101-387	Idle speed screw	
101-421	Pump arm screw	
101-505	Diaphragm & solenoid bracket screw	(2)
101-521S	Idle enrichment screw (short) (9055)	(2)
101-537	Idle enrichment diaphragm cover screw	(2)
101-596	Air choke valve & lever screw	(5)
101-616	Bowl cover screw	(10)
101-617	Cover plate screw	(3)
101-618	Pump jet housing screw	
101-629	Solenoid adjusting screw (9002, 04)	
101-635	Solenoid & bowl vent operating screw	
101-667	Fast idle operating lever screw	
101-680S	Altitude compensator screw (9004, 72)	(2)
101-693	Choke countershaft lever screw	
101-702	Fast idle speed screw	
101-710	Idle enrichment screw (long)	
105A-51	Solenoid lock nut (9002, 04)	
111-110	Metering rod arm	
111-122	Pump arm	
113-210S	Choke countershaft & lever assembly	
114-194	Choke lever	
115-500	Bowl vent connector rod	
115-507	Fast idle connector rod	
115-521	Choke connector rod	
115-522	Choke diaphragm connector rod	
115-552	Throttle connector rod	
117-190	Pump connector link	
120-4095	Primary metering jet (9002, 04, 72)	(2)
120-4096	Primary metering jet (9055)	(2)
120-5125S	Secondary metering jet (9004, 55, 72)	(2)
120-5143S	Secondary metering jet (9002)	(2)
*121-662	Pump jet housing gasket	
*121-761	Altitude compensator gasket (9004, 72)	
*121-787	Body flange gasket (9002, 04, 72)	
*++121-788	Idle enrichment cover gasket	
*121-789	Idle enrichment casting gasket	
*121-790	Air horn gasket	
121-818	Body flange gasket (9055)	
136-300	Throttle shaft spring washer	
136-308	Choke diaphragm connector rod washer	
145-304	Choke diaphragm hose	
*145-406	Pump passage tube	
150A-14	Pin spring	
160-317S	Step-up piston & link assembly	
163-131	Quad X ring	(2)
164-30	Grommet seal	
▲170-980S	Thermostatic coil housing & rod assembly	
170-1228	Idle enrichment diaphragm cover	
180-225	Solenoid bracket (9004)	
186-158	Secondary baffle plate	
202-414S	Choke diaphragm & bracket assembly	
203-404S	Idle enrichment diaphragm (use 203-431S)	
203-430S	Idle enrichment diaphragm assembly	
*203-431S	Idle enrichment diaphragm assembly (use 203-430S)	
213-72S	Idle solenoid assembly (9004)	
213-76S	Throttle positioner solenoid assembly (9002)	

*Parts sold in Zip-Kit only ++Not needed when using 203-430S ▲1975 Mexico (use 170-863)

NOTE: Figures in parenthesis indicate number of pieces used in one carburetor. Where no figure is shown only one is used.

1975-76 "V8"
CHRYSLER C, Y - DODGE D,W
PLYMOUTH P, R

TQ FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOs.
9009S – 9010S – 9011S – 9012S – 9051S – 9052S – 9063S – 9069S – 9073S

MODEL			ENGINE DISPL.	C.F.M.	ORIGINAL CARB. NO.	ZIP KIT NO.
1975	P, D, C, Y (A-120)	A/T	440	850	9009S	902-310
1975	P, D, C, Y (Calif. (A-120) Early)	A/T	440	850	9010S	902-310
1975	R, W, P, D, C (A-134)	A/T	440	850	9011S	902-310
1975	R, W, P, D, C (Calif.)(A-134)(Early)	A/T	440	850	9012S	902-310
1975	P, D, C, Y (Canada) (A-120)	A/T	440	850	9051S	902-310
1975-76	P, D, (Canada)(A-134)	A/T	440	850	9052S	902-310
1975	P, D, C, Y (Calif.)(A-120)(Late)	A/T	440	850	9063S	902-310
1975	P, D, C, Y (Calif.)(A-120)(Late)	A/T	440	850	9069S	902-310
1975	R, W, P, D, C (Calif.)(A-134)(Late)	A/T	440	850	9073S	902-310

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	FLOAT LEVEL	PUMP	VACUUM KICK	FAST IDLE CAM LINKAGE	FAST IDLE R.P.M.	UN-LOADER	BOWL VAPOR VENT
9009S	1-1/2 (p) 2-1/4 (s)	29/32	1/2	3/32	3/32	1600	5/16	13/16
9010S 9069S	1-1/2 (p) 2-1/4 (s)	29/32	1/2	3/32	3/32	1600	5/16	13/16
9011S	1-1/2 (p) 2-1/4 (s)	29/32	1/2	3/32	3/32	1600	5/16	13/16
9012S 9073S	1-1/2 (p) 2-1/4 (s)	29/32	1/2	3/32	3/32	1800	5/16	13/16
9051S	1-1/2 (p) 2-1/4 (s)	29/32	1/2	3/32	3/32	1600	5/16	13/16
9052S	1-1/2 (p) 2-1/4 (s)	29/32	1/2	3/32	3/32	1800	5/16	13/16
9063S	1-1/2 (p) 2-1/4 (s)	29/32	1/2	3/32	3/32	1600	5/16	13/16

MOTOR TUNE-UP— BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER, NEEDLE & SEAT TO RESTORE TOP PERFORMANCE. THESE PARTS ARE AVAILABLE IN CARTER ZIP KIT LISTED ABOVE.

INSTALL NEW CHOKE PULL OFF AND/OR CHOKE ASSEMBLY AT EVERY TUNEUP.

Carter
Carburetor
Division

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St. Louis, Missouri 63132 U.S.A.

CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFICATIONS

FLOAT LEVEL: With bowl cover inverted, gasket installed and floats resting on seated needle, the dimension of each float from bowl cover gasket to bottom side of float at outer end should be as specified. To adjust bend lever. **NOTE: Never allow lip of float to be pressed against needle when adjusting.**

SECONDARY THROTTLE LINKAGE: Open throttle valves to the wide open position. The primary and secondary throttle shaft stops, should contact casting at the same time. To adjust bend link. Do not attempt to adjust secondary throttle valves to the wide open position.

SECONDARY THROTTLE LEVER PICK-UP: Apply light pressure downward on the fast idle screw to move choke control lever to the wide open choke position. The clearance between pick-up lever and top of secondary lever should be .075". To adjust bend rear tang on throttle lever.

PUMP: Install pump connector link in inner hole of pump arm. Turn curb idle screw two full turns clockwise from the seated valve position. The dimension from top of plunger shaft and bowl cover should be as specified. To adjust bend connector rod.

AIR VALVE OPENING: With air valve wide open there should be 1/2" between air horn wall and inner edge of air valve. To adjust bend corner of air valve with pliers.

AIR VALVE SPRING: 1. Loosen lock plug. Rotate adjustment plug (inner) clockwise to allow air valve to position itself to wide open. 2. Check to see that air valve and shaft are operating freely. 3. To adjust rotate adjustment plug (inner) counterclockwise until air valve just contacts the stop. Then turn 1-1/4 additional turn. While holding the adjustment plug in this position, tighten lock plug.

DIAPHRAGM CONNECTOR ROD: With diaphragm stem fully depressed and air valve closed, there should be .040 inch between air valve and stop. To adjust bend diaphragm connector rod.

VACUUM KICK: Bottom the vacuum diaphragm by using an outside source of vacuum, or by pressing downward on end of diaphragm stem. Apply light pressure on choke lever to close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust bend tang on choke lever.

FAST IDLE CAM AND LINKAGE: With fast idle screw on second highest step of fast idle cam close choke valve as far as possible. The dimension between the lower edge of choke valve and inner wall of air horn should be as specified. To adjust bend connector rod.

UNLOADER: With throttle valves wide open, close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust bend front tang on fast idle control lever.

BOWL VAPOR VENT (ON CAR): With throttle valves set at curb idle, remove plug from air horn and insert a narrow ruler in hole. Rest ruler lightly on top of valve. The dimension from top of casting should be as specified. To adjust bend operating lever.

FAST IDLE ON CAR: With fast idle screw on second step and against shoulder of first step of cam, adjust fast idle screw to specified R.P.M.

THROTTLE POSITION SOLENOID (CATALYST PROTECTION SYSTEM): (All Except 9051, 9052, 69)

1. Disconnect the wire from the throttle position solenoid and hold the throttle open. Apply battery voltage directly to the solenoid wire. The solenoid stem should extend positively and maintain its extended position. If it does not, replace the solenoid, remove the battery voltage from the solenoid and release the throttle.
2. Connect a tachometer and start the engine, again apply battery voltage to the solenoid. Raise the engine speed sufficient to insure that the solenoid is fully extended. Adjust contact screw on lever to 1500 RPM engine speed. Allow time for OSAC to provide vacuum spark advance and engine speed to stabilize.
3. Disconnect the battery voltage wire and reconnect the solenoid wire to the electronic speed switch.
4. Slowly accelerate the engine from idle. As the engine speed passes approximately 2000 RPM the solenoid stem should extend positively and maintain its extended position. Next, slowly decelerate the engine. At or before the engine speed reaches 1800 RPM, the solenoid should deactivate. If the solenoid does not respond properly the speed switch must be replaced.

PARTS LIST

PART NO.	PART NAME	
* 1A-368	Flange gasket	
7-328	Air valve	
7-334S	Choke valve assembly	
* 11B-294	Bowl vent plug	
11B-487	Air valve adjustment plug	
11B-488	Air valve lock plug	
13-326	Choke shaft lever	
13-327S	Air valve shaft & lever assembly	
14-999	Choke lever (all exc. 9069, 73)	
14-1000	Choke countershaft lever	
14-1027	Choke lever (outer) (all exc. 9069, 73)	
14-1035	Choke lever (outer) 9069, 73)	
15-57	Fuel inlet fitting	
17-70	Pump discharge check needle	
20-239	Needle seat gasket	(2)
* 20-243	Fuel inlet fitting gasket	
20-282	Idle enrichment screw gasket	
21-252S	Float assembly	(2)
24-15	Float pin and metering rod arm pin	(3)
24-34	Float pin (9069, 73)	(2)
* 25-1086S	Needle and seat assembly	(2)
30A-212	Idle mixture screw	
48-365S	Pump jet and housing assembly	
53A-526S	Bowl vent operating lever assembly	
53A-563S	Fast idle operating arm assembly	
53A-565	Bowl vent arm	
53A-566	Bowl vent operating arm (9051, 52, 69)	
53A-572S	Solenoid operating lever assembly (all exc. 9051, 52, 73)	
53A-580S	Solenoid operating lever assembly (9073)	
61-84	Fast idle speed screw spring	
61-761	Pump spring (upper)	
61-873	Idle mixture screw (2) (all) and solenoid speed screw spring (exc. 9051, 52, 69)	
61-886	Air valve spring	
61-912	Bowl vent arm spring	
61-915	Vacuum piston spring (9009, 10, 11)	
61-956	Idle speed screw spring	
61-960	Vacuum piston spring (9012, 63)	
61-970	Idle enrichment diaphragm spring	
61-1040	Choke lever spring	
* 63-336	Retainer	(5)
* 63-426S	Intake check retainer assembly (use 64-447U)	
* 64-432S	Pump plunger assembly (use 64-447U)	
64-436U	Unitized package (consists of 1 63-426S, 1 64-432S) (use 64-447U)	
* 64-439S	Pump plunger assembly (use 64-447U)	
64-447U	Unitized package (consists of 1 63-426S, 1 64-439S).	
65-68	Step-up piston cover plate (early)	
65-80	Step-up cover plate (L-H)	
65-81	Step-up cover plate (R-H)	
65-86	Step-up piston cover plate (late)	
68-1A	Altitude compensator (9010, 12, 63, 69, 73)	
72-96S	Idle enrichment assembly (9009, 11, 51, 52)	
72-99S	Idle enrichment assembly (9010, 12, 69, 73)	
75-1965	Metering rod (.069" x .061" x .045")(9010, 12, 51, 52, 63)	(2)
75-2103	Metering rod (.069" x .045") (9011)	(2)
75-2109	Metering rod (.069" x .061" x .045") (9009)	(2)
75-2145	Metering rod (.069" x .061" x .055") (9069, 73)	(2)

PART NO.	PART NAME	
* 96-40	Idle mixture screw limiter cap	(2)
101-387	Idle speed screw	
101-421	Pump arm screw	
101-505	Diaphragm or solenoid bracket screw	(2)
101-521S	Idle enrichment screw (short)(all exc. 9069,73).	(2)
101-537	Idle enrichment diaphragm cover screw	(2)
101-596	Air, choke valve and lever screw	(5)
101-616	Bowl cover screw	(10)
101-617	Cover plate screw	(3)
101-618	Pump jet housing screw	
101-629	Solenoid adjusting screws (all exc. 9051, 52, 69, 73)	
101-635	Solenoid or operating arm screw	
101-667	Fast idle operating lever screw	
101-680S	Altitude compensator screw (all exc. 9051, 52, 69)	
101-693	Choke countershaft lever screw	
101-702	Fast idle speed screw	
101-710	Idle enrichment screw (long)	
101-722	Solenoid adjusting screw	
105A-51	Solenoid lock nut (all exc. 9051, 52, 69)	
111-110	Metering rod arm	
111-122	Pump arm	
113-210S	Choke countershaft & lever assembly	
114-194	Choke lever	
115-500	Bowl vent connector rod	
115-507	Fast idle connector rod	
115-521	Choke connector rod	
115-522	Choke diaphragm connector rod	
115-552	Throttle connector rod	
117-190	Pump connector link	
120-4098	Primary Metering Jet (9010, 12, 73)	(2)
120-4099	Primary Metering Jet (All exc. 9010, 12, 73)	(2)
120-5137S	Secondary metering jet assembly (all exc. 9051, 52	(2)
120-5143S	Secondary metering jet assembly (9051, 52)	
* 121-662	Pump jet housing gasket	
* 121-761	Altitude compensator gasket (9010, 12, 63)	
* 121-787	Body flange gasket	
++ 121-788	Idle enrichment cover gasket	
* 121-789	Idle enrichment casting gasket	
* 121-790	Air horn gasket	
136-300	Throttle shaft spring washer	
136-308	Choke diaphragm connector rod washer	
145-304	Choke diaphragm hose	
* 145-406	Pump passage tube	
150A-14	Pin spring	
160-317S	Step-up piston and link assembly	
* 163-131	Quad X ring	(2)
164-30	Grommet seal	
170-861S	Thermostatic coil housing and rod assembly	
170-1228	Idle enrichment diaphragm cover	
180-225	Solenoid bracket (all exc. 9051, 52, 69)	
186-158	Secondary baffle plate	
202-407S	Choke diaphragm & bracket assembly (9009, 10, 11 51, 52, 63, 69, 73)	
202-414S	Choke diaphragm & bracket assembly (9012)	
* 202-430S	Idle enrichment diaphragm assembly	
* 202-431S	Idle enrichment diaphragm assembly (use 202-430S).	
203-404S	Idle enrichment diaphragm (use 203-431S)	
213-72S	Throttle positioner solenoid (all exc. 9051, 52, 69)	

*Available in Zip Kits only
++Not needed when using 203-430S

NOTE: Figures in parenthesis indicate number of pieces used in one carburetor. Where no figure is shown only one is used.

1975-76 "V8"
CHRYSLER C, - DODGE D, W, CORDOBA S - PLYMOUTH P, R - CHARGER X

TQ FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOS.

9008S - 9046S - 9050S - 9053S - 9054S - 9056S - 9068S

	MODEL		ENGINE DISPL.	C.F.M.	ORIGINAL CARB NO.	ZIP KIT NO.
1975	R, W, X, S, P, D, C, (Exc. Sta. Wag.-P.D.C.) (Calif.) (Early)	A/T	400	850	9008S	902-310
1975	R, W, X, S, P, D, C, (Exc. Sta. Wag.-P.D.C.) (Calif.) (Late)	A/T	400	850	9068S	902-310
1975	R, W, X, S, P, D, C	A/T	400	850	9046S	902-310
1975	R, W, X, S, P, D, C (Canada)	A/T	400	850	9050S	902-310
1975	P, D, C Sta. Wagon (Calif.) (Early)	A/T	400	850	9053S	902-310
1975	P, D, C Sta. Wagon (Calif.) (Late)	A/T	400	850	9056S	902-310
1975-76	R, W, X, S, P, D, C (C-1975 only) (Non Calif.)	A/T	400	850	9054S	902-310

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	FLOAT LEVEL	PUMP	VACUUM KICK	FAST IDLE CAM LINKAGE	FAST IDLE R.P.M.	UN-LOADER	BOWL VAPOR VENT
9008S	1-1/2 (P) 2-1/4 (S)	31/32	1/2	5/32	3/32	1800	5/16	13/16
9046S	1-1/2 (P) 2-1/4 (S)	29/32	1/2	5/32	3/32	1800	5/16	13/16
9050S	1-1/2 (P) 2-1/4 (S)	29/32	1/2	5/32	3/32	1800	5/16	13/16
9053S	1-1/2 (P) 2-1/4 (S)	31/32	1/2	5/32	3/32	1800	5/16	13/16
9054S	1-1/2 (P) 2-1/4 (S)	29/32	1/2	5/32	3/32	1800	5/16	13/16
9056S	1- 1/2 (p) 2-1/4 (S)	31/32	1/2	5/32	3/32	1800	5/16	13/16
9068S	1-1/2 (P) 2-1/4 (S)	31/32	1/2	5/32	3/32	1800	5/16	13/16

MOTOR TUNE-UP — BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER, NEEDLE & SEAT TO RESTORE TOP PERFORMANCE. THESE PARTS ARE AVAILABLE IN CARTER ZIP KIT LISTED ABOVE.

INSTALL NEW CHOKE PULL OFF AND/OR CHOKE ASSEMBLY AT EVERY TUNEUP.

Carter Carburetor Division acf

Printed in U.S.A.

St. Louis, Missouri 63132 U.S.A.

CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFICATIONS

FLOAT LEVEL: With bowl cover inverted, gasket installed and floats resting on seated needle, the dimension of each float form bowl cover gasket to bottom side of float at outer end should be as specified. To adjust bend lever. *NOTE: Never allow lip of float to be pressed against needle when adjusting.*

SECONDARY THROTTLE LINKAGE: Open throttle valves to the wide open position. The primary and secondary throttle shaft stops, should contact casting at the same time. To adjust bend link. Do not attempt to adjust secondary throttle valves to the wide open position.

SECONDARY THROTTLE LEVER PICK-UP: Apply light pressure downward on the fast idle screw to move choke control lever to the wide open choke position. The clearance between pick-up lever and top of secondary lever should be .075". To adjust bend rear tang on throttle lever.

PUMP: Install pump connector link in inner hole of pump arm. Turn curb idle screw two full turns clockwise from the seated valve position. The dimension from top of plunger shaft and bowl cover should be as specified. To adjust bend connector rod.

AIR VALVE OPENING: With air valve wide open there should be 1/2" between air horn wall and inner edge of air valve. To adjust bend corner of air valve with pliers.

AIR VALVE SPRING: 1. Loosen lock plug. Rotate adjustment plug (inner) clockwise to allow air valve to position itself to wide open. 2. Check to see that air valve and shaft are operating freely. 3. To adjust rotate adjustment plug (inner) counter-clockwise until air valve just contacts the stop. Then turn 1¼ additional turn. While holding the adjustment plug in this position, tighten lock plug.

DIAPHRAGM CONNECTOR ROD: With diaphragm stem fully depressed and air valve closed, there should be .040 inch between air valve and stop. To adjust bend diaphragm connector rod.

VACUUM KICK: Bottom the vacuum diaphragm by using an outside source of vacuum, or by pressing downward on end of diaphragm stem. Apply light pressure on choke lever to close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust bend tang on choke lever.

FAST IDLE CAM AND LINKAGE: With fast idle screw on second highest step of fast idle cam, close choke valve as far as possible. The dimension between the lower edge of choke valve and inner wall of air horn should be as specified. To adjust bend connector rod.

UNLOADER: With throttle valves wide open, close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust bend front tang on fast idle control lever.

BOWL VAPOR VENT (ON CAR): With throttle valves set at curb idle, remove plug from air horn and insert a narrow ruler in hole. Rest ruler lightly on top of valve. The dimension from top of valve to top of casting should be as specified. To adjust bend operating lever.

FAST IDLE ON CAR: With fast idle screw on second step and against shoulder of first step of cam, adjust fast idle screw to specified R.P.M.

THROTTLE POSITIONER SOLENOID (CATALYST PROTECTION SYSTEM): (All except 9050,|56, 68)

1. Disconnect the wire from the throttle position solenoid and hold the throttle open. Apply battery voltage directly to the solenoid wire. The solenoid stem should extend positively and maintain its extended position. If it does not, replace the solenoid, remove the battery voltage from the solenoid and release the throttle.
2. Connect a tachometer and start the engine, again apply battery voltage to the solenoid. Raise the engine speed sufficient to insure that the solenoid is fully extended. Adjust contact screw on lever to 1500 RPM engine speed. Allow time for OSAC to provide vacuum spark advance and engine speed to stabilize.
3. Disconnect the battery voltage wire and reconnect the solenoid wire to the electronic speed switch.
4. Slowly accelerate the engine from idle. As the engine speed passes approximately 2000 RPM the solenoid stem should extend positively and maintain its extended position. Next, slowly decelerate the engine. At or before the engine speed reaches 1800 RPM, the solenoid should deactiviate. If the solenoid does not respond properly the speed switch must be replaced.

PARTS LIST

	PART NO.	PART NAME	
*	1A-368	Flange gasket	
	7-328	Air valve	
	7-340S	Choke valve assembly	
*	11B-294	Bowl vent plug	
	11B-487	Air valve adjustment plug	
	11B-488	Air valve lock plug	
	13-326	Choke shaft lever	
	13-327S	Air valve shaft & lever assembly	
	14-1000	Choke countershaft lever	
	14-1027	Choke lever (outer) (All exc. 9054, 56, 68)	
	14-1035S	Choke lever (outer) (9054,56,68)	
	15-57	Fuel inlet fitting	
	17-70	Pump discharge check needle	
	20-239	Needle seat gasket	(2)
*	20-243	Fuel inlet fitting gasket	
	20-282	Idle enrichment screw gasket	
	21-252S	Float assembly	(2)
	24-15	Metering rod arm pin	
	24-34	Float pin	(2)
*	25-1086S	Needle & seat assembly	(2)
	30A-212	Idle mixture screw	(2)
	48-365S	Pump jet & housing assembly (9046, 53,54,56)	
	48-370S	Pump jet & housing assembly (9008, 50, 68)	
	53A-526S	Bowl vent operating lever assembly	
	53A-563S	Fast idle operating arm assembly	
	53A-565	Bowl vent arm	
	53A-566	Bowl vent operating arm (9050)	
	53A-572S	Solenoid operating lever assembly (9008, 46, 53)	
	61-84	Fast idle speed screw spring	
	61-761	Pump spring (upper)	
	61-873	Idle mixture screw (2-all) and solenoid speed screw spring (1-9008, 46, 53)	
	61-886	Air valve spring	
	61-912	Bowl vent arm spring	
	61-915	Vacuum piston spring (9046, 50, 54)	
	61-956	Idle speed screw spring	
	61-970	Idle enrichment diaphragm spring	
	61-1040	Choke lever spring	
	61-1044	Vacuum piston spring (9008, 53)	
*	63-336	Retainer	(5)
*	63-426S	Intake check retainer assembly (use 64-447U)	(5)
*	64-432S	Pump plunger assembly (use 64-447U)	
	64-439S	Pump plunger assembly (use 64-447U)	
	64-447U	Unitized package (consists of 1 63-426S, 1 64-439S)	
	65-68	Step up piston cover plate (early)	
	65-80	Step up cover plate (L-H)	
	65-81	Step up cover plate (R-H)	
	65-86	Step up piston cover plate (Late)	
	68-1A	Altitude compensator (9008, 68)	
	72-99S	Idle enrichment assembly (9008, 68)	
	72-101S	Idle enrichment assembly (9046, 50, 53, 54, 56)	
	75-1965	Metering rod (.069" x .061" x .045")	
	75-2145	Metering rod (.069" x .061" x .055") (9056, 68)	(2)
*	96-40	Idle mixture screw limiter cap	(2)
	101-387	Idle speed screw	
	101-421	Pump arm screw	
	101-505	Diaphragm & solenoid bracket screw (9008, 46, 53,-2, 9050, 56, 68,-1)	
	101-521S	Idle enrichment screw (short) (9046, 50, 53, 54)	(2)
	101-537	Idle enrichment diaphragm cover screw	(2)
	101-596	Air choke valve & lever screw	(5)
	101-616	Bowl cover screw	(10)
	101-617	Cover plate screw	(3)
	101-618	Pump jet housing screw	
	101-629	Solenoid adjusting screw (9008, 46, 53, 54)	
	101-635	Solenoid & bowl vent operating arm screw (all exc. 9050)	
	101-667	Fast idle operating lever screw	
	101-680S	Altitude compensator screw (9008, 68)	(2)
	101-693	Choke countershaft lever screw	
	101-702	Fast idle speed screw	
	101-710	Idle enrichment screw (long)	
	105A-51	Solenoid lock nut (9008, 46, 53)	
	111-110	Metering rod arm	
	111-122	Pump arm	
	113-210S	Choke countershaft & lever assembly	
	114-194	Choke lever	
	115-500	Bowl vent connector rod	
	115-507	Fast idle connector rod	
	115-521	Choke connector rod	
	115-522	Choke diaphragm connector rod	
	115-552	Throttle connector rod	
	117-190	Pump connector link	
	120-4098	Primary metering jet (9050, 53)	(2)
	120-4099	Primary metering jet (9008, 54, 56, 68)	(2)
	120-4100	Primary metering jet (9046)	(2)
	120-5143S	Secondary metering jet	(2)
*	121-662	Pump jet housing gasket	
	121-761	Altitude compensator gasket (9008)	
*	121-787	Body flange gasket	
*++	121-788	Idle enrichment cover gasket	
*	121-789	Idle enrichment casting gasket	
*	121-790	Air horn gasket	
	136-300	Throttle shaft spring washer	
	136-308	Choke diaphragm connector rod washer	
	145-304	Choke diaphragm hose	
*	145-406	Pump passage tube	
	145-525	Idle enrichment tube	
	150A-14	Pin spring	
	160-317S	Step up piston & link assembly	
*	163-131	Quad X ring	(2)
	164-30	Grommet seal	
	170-861S	Thermostatic coil housing & rod assembly	
	170-1228	Idle enrichment diaphragm cover	
	180-225	Solenoid bracket (9008, 46, 53, 54)	
	186-158	Secondary baffle plate	
	202-407S	Choke diaphragm & bracket assembly	
	203-404S	Idle enrichment diaphragm assembly (use 203-431S)	
	203-431S	Idle enrichment diaphragm assembly (use 203-430S)	
	203-430S	Idle enrichment diaphragm assembly	
	213-72S	Throttle positioner assembly (9008, 46, 53)	
	213-75S	Throttle positioner assembly (9054)	

++ Not needed when using 203-430S

* Available in Zip-Kit only

NOTE: Figures in parenthesis indicate number of pieces used in one carburetor. Where no figure is shown only one is used.

1975-76 "V8"
DODGE TRUCK

BBD DUAL DOWN-DRAFT CLIMATIC CONTROL **CARBURETOR NOS. 8013S – 8014S – 8016S – 8019S 8020S – 8022S – 8024S – 8025S – 8026S**

MODEL		ENGINE DISPL.	C.F.M.	ORIGINAL CARB. NO.	ZIP KIT NO.
1975 D-1,2,3; AD-1; W-1,2,3; AW-1; B-2,3, (Calif.)	A/T	318	280	8013S	902-311
1976 D-1,2,3; W-1,2,3; B-2,3 (Calif)	M/T	318	280	8013S	902-311
1975 D-1,2,3; AD-1; W-1,2,3; AW-1; B-2,3; MB-3 (Calif)	M/T	318	280	8014S	902-311
1976 D-1,2,3; W-1,2,3; B-2,3 (Calif)	A/T	318	280	8014S	902-311
1975, 76 D-5, 6; W-6 (Calif)	M/T	318	280	8016S	902-311
1975 D-1; AD-1; W-1; AW-1; B-1,2 (Canada)	M/T	318-1	280	8019S	902-311
1975 D-1; AD-1; W-1; AW-1; B-1,2	M/T	318-1	280	8020S	902-311
1975 D-1; AD-1; W-1; AW-1; B-1,2 (Canada)	A/T	318-1	280	8022S	902-311
1975 D-1; AD-1; W-1; AW-1; B-1,2 (Calif)	M/T	318-1	280	8024S	902-311
1975 D-1; AD-1; W-1; AW-1; B-1,2 (Calif)	A/T	318-1	280	8025S	902-311
1975, 76 D-5,6; W-6, M-3,4 (Calif)	A/T	318-3	280	8026S	902-311

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

(SEE BACK PAGE FOR PROCEDURE)

CARB. NO.	THRO. BORE	FLOAT	PUMP	FAST IDLE LINKAGE	VACUUM CHOKE BREAK	UNLOADER
8013S	1-7/16	1/4	1/2	5/64	1/8	5/16
8014S	1-7/16	1/4	1/2	5/64	7/64	5/16
8016S	1-7/16	1/4	1/2	5/64	1/8	5/16
8019S	1-7/16	1/4	1/2	5/64	1/8	9/32
8020S	1-7/16	1/4	1/2	5/64	1/8	5/16
8022S	1-7/16	1/4	1/2	5/64	5/64	5/16
8024S	1-7/16	1/4	1/2	5/64	1/8	9/32
8025S	1-7/16	1/4	1/2	5/64	5/32	5/16
8026S	1-7/16	1/4	1/2	5/64	7/64	9/32

MOTOR TUNE-UP — BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER, NEEDLE & SEAT TO RESTORE TOP PERFORMANCE. THESE PARTS ARE AVAILABLE IN CARTER ZIP KIT LISTED ABOVE.

INSTALL NEW CHOKE ASSEMBLY AT EVERY TUNEUP.

Carter
Carburetor
Division

Printed in U.S.A. St. Louis, Missouri 63132 U.S.A. FORM 5629A

CARBURETOR ADJUSTMENTS

FLOAT LEVEL: Hold float lip against seated needle lightly, The dimension between top of float (at center) and top of bowl should be as specified. To adjust, bend lip of float.

PUMP: Turn curb idle screw two (2) full turns clockwise from the seated position. The dimension from the top of the pump shaft to the top of bowl cover should be as specified. To adjust, loosen pump arm lock screw and revolve pump arm. Tighten screw.

METERING ROD: Loosen metering rod arm screw, press downward on piston plate until metering rods bottom. With throttle valve seated revolve metering rod arm until lip contacts piston plate, then tighten clamp screw.

FAST IDLE LINKAGE: With fast idle screw on the second highest step of cam, the dimension between the top edge of choke valve and wall of air horn should be as specified. To adjust, bend connector rod.

VACUUM CHOKE BREAK: By using an outside vacuum source fully depress diaphragm and close choke valve as far as possible without forcing. The dimension between top edge of choke valve and wall of air horn should be as specified. To adjust, open or close the "U" bend of connector link.

UNLOADER: With throttle valves wide open close choke valve as far as possible without forcing. The dimension between top edge of choke valve and wall of air horn should be as specified. To adjust, bend tang on throttle lever.

DASHPOT: With throttle held at 2500 R.P.M., adjust dashpot so that stem just contacts lever. Tighten lock nut.

THROTTLE POSITION SOLENOID (CATALYST PROTECTION SYSTEM) (8020, 24, 25):

1. Disconnect the wire from the throttle position solenoid and hold the throttle open. Apply battery voltage directly to the solenoid wire. The solenoid stem should extend positively and maintain its extended position. If it does not, replace the battery voltage from the solenoid and release the throttle.
2. Connect a tachometer and start the engine, again apply battery voltage to the solenoid. Raise the engine speed sufficient to insure that the solenoid is fully extended. Adjust contact screw on lever to 1500 RPM engine speed. Allow time for OSAC to provide vacuum spark advance and engine speed to stabilize.
3. Disconnect the battery voltage wire and reconnect the solenoid wire to the electronic speed switch.
4. Slowly accelerate the engine from idle. As the engine speed passes approximately 2000 RPM the solenoid stem should extend positively and maintain its extended position. Next, slowly decelerate the engine. At or before the engine speed reaches 1800 RPM, the solenoid should deactiviate. If the solenoid does not respond properly the speed switch must be replaced.

VACUUM THROTTLE POSITIONER: Accelerate engine manually to approximately 2500 R.P.M. loosen lock nut on positioner and rotate unit until stem just contacts throttle lever. Release throttle and slowly rotate unit to decrease engine R.P.M. until a sudden drag occurs (aprox. 1800 R.P.M.). At this point continue decreasing unit 1/4 additional turn, then tighten lock nut. Accelerate engine manually to 2500 R.P.M. and then release, engine should return to normal idle.

PARTS LIST

PART NO.	PART NAME	
*1A-316	Flange gasket (8019, 20, 22, 24, 25)	
*1A-333	Flange gasket (8013, 14, 16, 26)	
2-321	Throttle valve	
3-1882S	Throttle shaft & lever assy. (8022) (use 3-1972S)	
3-1920S	Throttle shaft & lever assy. (8013, 14, 19, 26) (use 3-1970S)	
3-1930S	Throttle shaft & lever assy. (8020, 24) (use 3-1971S)	
3-1950S	Throttle shaft & lever assy. (8016)	
3-1970S	Throttle shaft & lever assy. (8013, 14, 19, 25, 26)	
3-1971S	Throttle shaft & lever assy. (8020, 24)	
3-1972S	Throttle shaft & lever assy. (8022)	
7-329	Choke valve	
14-992	Choke lever	
14-993S	Choke lever & shaft assembly	
20-203	Needle seat gasket	
21-235S	Float assembly	
24-23	Float pin	
*25-1003S	Needle & seat assembly	
30A-198	Idle mixture screw	(2)
51-96	Throttle shaft collar	
53A-576	Dashpot operating lever (8020, 24)	
61-58	Idle & fast idle speed screw spring	(2)
61-205	Step-up piston spring	
61-413	Pump spring	
61-538	Step-up piston spring (8013, 14)	
61-873	Idle mixture screw spring	(2)
*61-970	Idle enrichment diaphragm spring (8022, 25)	
61-1014	Throttle return spring	
62-306	Idle enrichment hose clamp (8022, 25)	
63-238	Float pin retainer	
63-336	Retainer	(2)
*64-435S	Pump plunger & rod assembly	
75-2104	Metering rod (8019, 24) (.0715" x .047")	(2)
75-2105	Metering rod (8020) (.072" x .047")	(2)
75-2111	Metering rod (8016, 26) (.069" x .40)	(2)
75-2128	Metering rod (8022, 25) (.070" x .047")	(2)
75-2129	Metering rod (8013, 14) (.070" x .045")	(2)
*96-40	Idle mixture screw limiter cap	(2)
101-296	Fast idle speed screw	
101-307S	Air horn screw assembly (8022 - 4) (8013, 14, 16, 19, 20, 24, 25, 26 - 2)	
101-362S	Air horn screw assembly (8019)	(2)
101-419	Throttle valve screw (early)	(4)
101-428	Choke diaphragm bracket screw	(2)
101-537	Idle enrichment diaphragm cover screw (8022, 25)	(3)
101-544S	Body screw assembly	(2)
101-563	Idle speed screw	
101-565	Fast idle cam screw	
101-579	Venturi cluster screw (8013, 14, 20, 22, 25)	(2)
101-596	Choke valve screw	(2)
101-634	Choke lever screw	
101-635	Dashpot operating lever screw (8020, 24)	
101-639	Venturi cluster screw (8016, 26)	(2)
101-680S	Body flange screw assembly	(2)
101-687	Venturi cluster screw (8019, 24)	(2)
101-707	Pump & metering rod arm screw	(2)
101-713	Bowl cover screw (8024, 25)	(2)
101-714	Dust cover screw	(3)

PART NO.	PART NAME	
101-726	Throttle valve screw (late)	(4)
103-14	Lead shot	
103-15	Lead shot	(2)
103-20	Lead shot	(2)
105A-51	Solenoid lock nut (8020, 24, 25)	
105A-60	Dashpot lock nut (8019, 20, 24)	
111-118	Metering rod arm	
111-120	Pump arm	
111-125U	Unitized pkg. (consists of 111-118, 111-120, 117-217, 101-707, 136-326)	
113-214	Pump conuntershaft	
115-538	Choke connector rod	
115-546	Throttle connector rod	
115-560	Choke connector rod	
116-13	Pump discharge check ball	
116-18	Pump intake check ball	
117-217	Pump link	
118-331	Dust cover	
118-335S	Venturi cover assembly (8013, 14, 16, 22, 25, 26)	
118-337S	Venturi cover assembly (8019, 20, 24)	
118-343	Dust cover	
120-392	Main metering (.092")	(2)
*121-753	Venturi housing gasket	
*121-759	Dust cover gasket	
*121-760	Body gasket	
*†121-788	Idle enrichment diaphragm cover gasket (8022, 25)	
*121-801	Venturi cover gasket	
*121-805	Body flange gasket	
136-326	Pump & metering rod arm washer	(2)
145-303	Choke diaphragm hose	
145-525	Idle enrichment hose (8022, 25)	
160-337S	Vacuum piston assembly	
170-872S	Thermostatic coil housing & rod assy. (8013, 14, 26)	
170-982S	Thermostatic coil housing & rod assy. (8019, 20, 22, 24, 25)	
170-984S	Thermostatic coil housing & rod assy. (8016)	
170-1228	Idle enrichment diaphragm cover (8022, 25)	
180-144	Dashpot bracket (8019)	
180-269	Solenoid bracket (8025)	
180-270	Throttle positioner bracket (8013, 14, 16, 26)	
180-276	Dashpot & solenoid bracket (8020, 24)	
181-477	Fast idle cam (8013, 19, 20, 24)	
181-478	Fast idle cam (8014, 22, 25)	
181-488	Fast idle cam (8016)	
181-489	Fast idle cam (8026)	
186-149	Fuel bowl baffle	
202-462S	Dashpot assembly (8019, 20, 24)	
202-580S	Vacuum throttle positioner (8013, 14, 16, 26)	
202-590S	Choke diaphragm & bracket assy. (8014, 22, 25, 26)	
202-591S	Choke diaphragm & bracket assy. (8013, 16, 19, 20, 24)	
203-404S	Idle enrichment diaphragm assy. (8022, 25) (use 202-431S)	
††203-430S	Idle enrichment diaphragm assy. (8022, 25)	
*203-431S	Idle enrichment diaphragm assy. (8022, 25) (use 202-430S)	
213-71S	Throttle positioner solenoid (8025)	
213-74S	Throttle positioner solenoid (8020, 24)	

††Available after 2-15-75 †Not needed when using 203-430S *Available in Zip Kit only

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

CARTER

FORM 5630B
JANUARY, 1975
REVISED JULY, 1976

1975-76 "V8"

DODGE TRUCK

TQ FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOS.
9034S – 9035S – 9036S

MODEL			ENGINE DISPL.	C.F.M.	ORIGINAL CARB.	ZIP-KIT
1975	D-2, 3; W-2, 3	M/T	440-1	850	9034S	902-299A
1975	D-2, 3; W-2, 3 (Calif.)	M/T	440-1	850	9035S	902-299A
1975	D-1, 2, 3; W-1, 2, 3; M-3, 4, 5 (Calif.)	A/T	440-1, 3	850	9036S	902-299A
1976	D-1, 2, 3; W-1, 2, 3; B-2, 3, M-3, 4, 5, 6	A/T	440-1, 3	850	9036S	902-299A

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	FLOAT LEVEL	PUMP	VACUUM KICK	FAST IDLE CAM LINKAGE	FAST IDLE R.P.M.	UNLOADER
9034S	1-1/2 (P) 2-1/4 (S)	29/32	1/2	5/32	3/32	1700	5/16
9035S	1-1/2 (P) 2-1/4 (S)	29/32	1/2	5/32	3/32	1700	5/16
9036S	1-1/2 (P) 2-1/4 (S)	29/32	1/2	5/32	3/32	1700	5/16

MOTOR TUNE-UP — BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER, NEEDLE & SEAT TO RESTORE TOP PERFORMANCE. THESE PARTS ARE AVAILABLE IN CARTER ZIP KIT LISTED ABOVE.

INSTALL NEW CHOKE PULL OFF AND/OR CHOKE ASSEMBLY AT EVERY TUNE-UP.

Carter
Carburetor
Division

CARBURETOR ADJUSTMENTS

FLOAT LEVEL: With bowl cover inverted, gasket installed and floats resting on seated needle, the dimension of each float from bowl cover gasket to bottom side of float at outer end should be as specified. To adjust bend lever. NOTE: Never allow lip of float to be pressed against needle when adjusting.

SECONDARY THROTTLE LINKAGE: Open throttle valves to the wide open position. The primary and secondary throttle shaft stops, should contact casting at the same time. To adjust bend link. Do not attempt to adjust secondary throttle valves to the wide open position.

SECONDARY THROTTLE LEVER PICK-UP: Apply light pressure downward on the fast idle screw to move choke control lever to the wide open choke position. The clearance between pick-up lever and top of secondary lever should be .075". To adjust bend rear tang on throttle lever.

PUMP: Install pump connector link in inner hole of pump arm. Turn curb idle screw two full turns clockwise from the seated valve position. The dimension from top of plunger shaft and bowl cover should be as specified. To adjust bend connector rod.

AIR VALVE OPENING: With air valve wide open there should be 1/2" between air horn wall and inner edge of air valve. To adjust bend corner of air valve with pliers.

AIR VALVE SPRING: 1. Loosen lock plug. Rotate adjustment plug (inner) clockwise to allow air valve to position itself to wide open. 2. Check to see that air valve and shaft are operating freely. 3. To adjust rotate adjustment plug (inner) counterclockwise until air valve just contacts the stop. Then turn 1-1/4 additional turn. While holding the adjustment plug in this position, tighten lock plug.

DIAPHRAGM CONNECTOR ROD: With diaphragm stem fully depressed and air valve closed, there should be .040 inch between air valve and stop. To adjust bend diaphragm connector rod.

VACUUM KICK: Bottom the vacuum diaphragm by using an outside source of vacuum, or by pressing downward on end of diaphragm stem. Apply light pressure on choke lever to close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust bend tang on choke lever.

FAST IDLE CAM AND LINKAGE: With fast idle screw on second highest step of fast idle cam, close choke valve as far as possible. The dimension between the lower edge of choke valve and inner wall of air horn should be as specified. To adjust bend connector rod.

UNLOADER: With throttle valves wide open, close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust bend front tang on fast idle control lever.

VACUUM THROTTLE POSITIONER: Accelerate engine manually to approximately 2500 R.P.M. Loosen lock nut on positioner and rotate unit until stem just contacts throttle lever. Release throttle and slowly rotate unit to decrease engine R.P.M. until a sudden drag occurs (approx. 1800 R.P.M.) At this point continue decreasing unit 1/4 additional turn, then tighten lock nut. Accelerate engine manually to 2500 R.P.M. and then release, engine should return to normal idle.

PARTS LIST

Part No.	PART NAME	
*1A-368	Flange gasket	(2)
7-328	Air valve	
7-334S	Choke valve assembly	
11B-487	Air valve adjustment plug	
11B-488	Air valve lock plug	
13-326	Choke shaft lever	
13-327S	Air valve shaft & lever assembly	
14-999	Choke lever	
14-1000	Choke countershaft lever	
14-1027	Choke lever (outer)	
15-57	Fuel inlet fitting	
17-70	Pump discharge check needle	
20-239	Needle seat gasket	(2)
*20-243	Fuel inlet fitting gasket	
21-252S	Float assembly	(2)
24-15	Float pin & metering rod arm pin	(3)
*25-1086S	Needle and seat assembly	(2)
30A-212	Idle mixture screw (Use 30A-218)	(2)
30A-218	Idle mixture screw	(2)
48-365S	Pump jet and housing assembly	
53A-563S	Fast idle operating arm assembly	
53A-573	Throttle positioner lever (9035, 36)	
61-84	Fast idle speed screw spring	
61-761	Pump spring (upper)	
61-873	Idle mixture screw spring	(2)
61-886	Air valve spring	
61-956	Idle speed screw spring	
61-960	Vacuum piston spring (9034)	
61-1040	Choke lever spring	
61-1044	Vacuum piston spring (9035, 36)	
*63-336	Retainer	(5)
*63-426S	Intake check retainer assembly (Use 64-447U)	
*64-432S	Pump plunger assembly (Use 64-447U)	
64-447U	Unitized package (consists of 1-63-426S, 1-64-439S)	
65-68	Step-up piston cover plate (early)	
65-80	Step-up cover plate (L-H)	
65-81	Step-up cover plate (R-H)	
65-87	Step-up piston cover plate (late)	
75-2024	Metering rod (.066" x .054" x .040") (9034)	(2)
75-2110	Metering rod (.069" x .053" x .040") (9035, 36)	
*96-40	Idle mixture screw limiter cap	(2)
101-387	Idle speed screw	
101-421	Pump arm screw	
101-505	Diaphragm & positioner bracket screw (9034-1, 9035, 36-2)	

Part No.	PART NAME	
101-596	Air choke valve and lever screw	(5)
101-616	Bowl cover screw	(10)
101-617	Cover plate screw	(3)
101-618	Pump jet housing screw	
101-635	Positioner lever screw (9035, 36)	
101-667	Fast idle operating lever screw	
101-693	Choke countershaft lever screw	
101-702	Fast idle speed screw	
105A-60	Modulator lock nut (9035, 36)	
111-110	Metering rod arm	
111-122	Pump arm	
113-210S	Choke countershaft and lever assembly	
114-194	Choke lever	
115-507	Fast idle connector rod	
115-521	Choke connector rod	
115-522	Choke diaphragm connector rod	
115-552	Throttle connector rod	
117-190	Pump connector link	
120-4100	Primary metering jet (9035, 36)	(2)
120-4101	Primary metering jet (9035, 36) (Use 120-4100)	(2)
120-4095	Primary metering jet (9034) (Use 120-4096)	(2)
120-4096	Primary metering jet (9034)	(2)
120-5125S	Secondary metering jet (9035, 36)	
120-5137S	Secondary metering jet (9034)	(2)
*121-662	Pump jet housing gasket	
*121-688	Air horn gasket	
*121-706	Body flange gasket	
136-308	Choke diaphragm connector rod washer	
145-304	Choke diaphragm hose	
145-406	Pump passage tube	
160-317S	Step-up piston and link assembly	
*163-131	Quad X ring	(2)
170-863S	Thermostatic coil housing and rod assembly	
180-271	Positioner bracket (9035, 36)	
186-158	Secondary baffle plate	
202-407S	Choke diaphragm and bracket assembly (9034, 36) (Use 202-666S)	
202-414S	Choke diaphragm & bracket assembly (9035) (Use 202-665S)	
202-583S	Vacuum Throttle Positioner (9035, 36)	
202-665S	Choke diaphragm & bracket assy. (9035)	
202-666S	Choke diaphragm & bracket assy. (9034, 36)	

*Available in Zip-Kit only.

NOTE: Figures in parenthesis indicate number of pieces used in one carburetor. Where no figure is shown only one is used.

1975 "V8"
CORDOBA S CHARGER X - DART L - DODGE D.W - PLYMOUTH P,R VALIANT V

BBD DUAL DOWN-DRAFT CLIMATIC CONTROL CARBURETOR NOS. 8000S – 8001S – 8003S – 8006S – 8007S – 8062S – 8064S – 8066S – 8076S – 8077S – 8079S

MODEL		ENGINE DISPL.	C.F.M.	ORIGINAL CARB	ZIP KIT NO.
L, R, W, V	M/T	318	280	8000S	902-311
L, R, W, V (early)	A/T	318	280	8001S	902-311
L, R, S, V, W. X (Calif.)	A/T	318	280	8003S	902-311
L, W (Export)	M/T	318	280	8006S	902-311
L, W (Export)	A/T	318	280	8007S	902-311
D, L, P, R, S, V, W, X (Canada)	A/T	318	280	8062S	902-311
D, L, P, R, S, V, W, X,	A/T	318	280	8064S	902-311
L, V	M/T	318	280	8066S	902-311
D, L, P, R, S, V, W, X	A/T	318	280	8076S	902-311
L, R, W, V (Late)	A/T	318	280	8077S	902-311
L, R, S, V, W, X (Calif.) (late)	A/T	318	280	8079S	902-311

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

(SEE BACK PAGE FOR PROCEDURE)

CARB. NO.	THRO. BORE	FLOAT	PUMP	FAST IDLE CAM LINKAGE	CHOKE VACUUM KICK	UNLOADER	FAST IDLE RPM	IDLE SETTING	
								SET SPEED SCREW RPM	SET SOLENOID PLUNGER SCREW-RPM
8000S	1-7/16	1/4	1/2	5/64	1/8	9/32	1500	750	–
8001S	1-7/16	1/4	1/2	5/64	7/64	5/16	1500	650	900
8003S	1-7/16	1/4	1/2	5/64	7/64	5/16	1500	750	–
8006S	1-7/16	1/4	1/2	5/64	1/8	9/32	1500	750	–
8007S	1-7/16	1/4	1/2	5/64	5/64	5/16	1500	750	–
8062S	1-7/16	1/4	1/2	5/64	1/8	9/32	1500	750	–
8064S	1-7/16	1/4	1/2	5/64	5/64	5/16	1500	750	–
8066S	1-7/16	1/4	1/2	5/64	1/8	9/32	1500	750	–
8076S	1-7/16	1/4	1/2	5/64	5/64	5/16	1500	750	–
8077S	1-7/16	1/4	1/2	5/64	7/64	5/16	1500	650	900
8079S	1-7/16	1/4	1/2	5/64	7/64	5/16	1500	750	–

MOTOR TUNE-UP — BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER, NEEDLE & SEAT TO RESTORE TOP PERFORMANCE, THESE PARTS ARE AVAILABLE IN CARTER ZIP KIT LISTED ABOVE.

INSTALL NEW CHOKE ASSEMBLY AT EVERY TUNEUP.

Carter Carburetor Division
St. Louis, Missouri 63132

Printed in U.S.A.

CARBURETOR ADJUSTMENTS

FLOAT LEVEL: Hold float lip against seated needle lightly. The dimension between top of float (at center) and top of bowl should be as specified. To adjust bend lip of float.

PUMP: Turn curb idle screw two (2) full turns clockwise from the seated position. The dimension from the top of the pump shaft to the top of bowl cover should be as specified. To adjust, loosen pump arm lock screw and revolve pump arm. Tighten screw.

METERING ROD: Loosen metering rod arm screw, press downward on piston plate until metering rods bottom. With throttle valve seated revolve metering rod arm until lip contacts piston plate, then tighten clamp screw.

FAST IDLE LINKAGE: With fast idle screw on the second highest step of cam, the dimension between the top edge of choke valve and wall of air horn should be as specified. To adjust, bend connector rod.

CHOKE VACUUM KICK: By using an outside vacuum source fully depress diaphragm and close choke valve as far as possible without forcing. The dimension between top edge of choke valve and wall of air horn should be as specified. To adjust, open or close the "U" bend of connector link.

UNLOADER: With throttle valves wide open close choke valve as far as possible without forcing. The dimension between top edge of choke valve and wall of air horn should be as specified. To adjust, bend tang on throttle lever.

DASHPOT: With throttle held at 2500 R.P.M., adjust dashpot so that stem just contacts lever. Tighten lock nut.

IDLE STOP SOLENOID (8001 only): With solenoid disconnected, adjust idle speed screw to specified RPM. After this adjustment has been made, connect solenoid, loosen lock nut and adjust solenoid to specified RPM. Tighten lock nut.

FAST IDLE ADJUSTMENT With fast idle screw on second step of cam, adjust screw to give specified R.P.M.

THROTTLE POSITION SOLENOID (CATALYST PROTECTION SYSTEM):

1. Disconnect the wire from the throttle position solenoid and hold the throttle open. Apply battery voltage directly to the solenoid wire. The solenoid stem should extend positively and maintain its extended position. If it does not, replace the solenoid, remove the battery voltage from the solenoid and release the throttle.
2. Connect a tachometer and start the engine, again apply battery voltage to the solenoid. Raise the engine speed sufficient to insure that the solenoid is fully extended. Adjust contact screw on lever to 1500 RPM engine speed. Allow time for OSAC to provide vacuum spark advance and engine speed to stabilize.
3. Disconnect the battery voltage wire and reconnect the solenoid wire to the electronic speed switch.
4. Slowly accelerate the engine from idle. As the engine speed passes approximately 2000 RPM the solenoid stem should extend positively and maintain its extended position. Next, slowly decelerate the engine. At or before the engine speed reaches 1800 RPM, the solenoid should deactiviate. If the solenoid does not respond properly the speed switch must be replaced.

PARTS LIST

PART NO.	PART NAME	
*1A-316	Flange gasket	
2-317	Throttle valve (8064, 76)	
2-321	Throttle valve (8064, 76 -1) (all others - 2)	
3-1882S	Throttle shaft & lever assy. (8006, 07, 62)(Use 3-1972S)	
3-1920S	Throttle shaft & lever assy. (8001, 03, 64, 66, 76) (Use 3-1970S)	
3-1930S	Throttle shaft & lever assy. (8000) (Use 3-1971S)	
3-1970S	Throttle shaft & lever assy. (8001, 03, 64, 66, 76)	
3-1971S	Throttle shaft & lever assy. (8000)	
3-1972S	Throttle shaft & lever assy. (8006, 07, 62)	
7-329	Choke valve	
14-992	Choke lever	
14-993S	Choke lever & shaft assy.	
20-203	Needle seat gasket	
21-235S	Float assy.	
24-23	Float pin	
*25-1003S	Needle & seat assy. (flared tip)	
30A-198	Idle mixture screw	(2)
51-96	Throttle shaft collar	
53A-576	Dashpot operating lever (8000)	
61-58	Idle & fast idle speed screw spring	(2)
61-205	Step-up piston spring (all exc. 8001, 77)	
61-226	Step-up piston spring (8077)	
61-413	Pump spring	
61-604	Step-up piston spring (8001)	
61-873	Idle mixture screw spring	(2)
*61-970	Idle enrichment diaphragm spring (8001, 03, 62, 64, 76, 77, 79)	
61-1024	Throttle return spring	
63-238	Float pin retainer	
63-336	Retainer	
*64-435S	Pump plunger & rod assy.	(2)
75-2104	Metering rod (.72"X .057" X .047") (8000)	(2)
75-2105	Metering rod (.072"X.058"X.047") (8006, 07, 66)	
75-2107	Metering rod (.0715"X.060"X.047") (8003, 79)	(2)
75-2115	Metering rod (.073"X.063"X.047") (8001)	(2)
75-2128	Metering rod (.070"X.061"X.047") (8062, 64, 76, 77)	
*96-40	Idle mixture screw limiter cap (all exc. 8006, 07)	(2)
101-296	Fast idle speed screw	
101-307S	Air horn screw assy. (8006,07,62,76,-4) (all others-2)	
101-419	Throttle valve screw	(4)
101-428	Choke diaphragm bracket screw	(2)
101-521S	Bowl cover screw assy. (8066)	(2)
101-537	Idle enrichment diaphragm cover screw (8001, 03, 62, 64, 76, 77, 79)	(3)
101-544S	Body screw assy.	(2)
101-563	Idle speed screw	
101-565	Fast idle cam screw	
101-579	Venturi cluster screw (8006,07,62,64,66,76,77)	(2)
101-596	Choke valve screw	(2)
101-634	Choke lever screw	
101-635	Dashpot operating lever screw (8000)	
101-680S	Body flange screw assy.	(2)
101-687	Venturi cluster screw (8000, 01, 03, 79)	(2)
101-707	Pump & metering rod arm screw (all exc. 8077, 79)	(2)
101-713S	Air horn screw (all exc. 8006, 07, 62, 66)	(2)
101-714	Dust cover screw	(3)
101-718	Pump & metering rod arm screw (8077, 79)	
103-14	Lead shot	
103-15	Lead shot	(2)
103-20	Lead shot	(2)
105A-51	Solenoid lock nut (all exc. 8062, 66, 76, 79)	
105A-60	Dashpot lock nut (8000, 66)	
111-118	Metering rod arm	
111-120	Pump arm	
111-125U	Unitized package (consists of 111-118, 111-120, 117-217, 101-707-2, 136-326)	
113-214	Pump countershaft (all exc. 8077)	
113-220S	Pump countershaft assy. (8077, 79)	
115-538	Choke connector rod	
115-546	Throttle connector rod	
115-560	Fast idle connector rod	
*116-13	Pump discharge check ball	
*116-18	Pump intake check ball	
117-217	Pump link	
118-331	Dust cover	
118-335S	Venturi cover assy. (8062, 64, 76, 77)	
118-336S	Venturi cover assy. (8001, 03, 79)	
118-337S	Venturi cover assy. (8000, 06, 07, 66)	
120-392	Main metering jet (.092")	(2)
*121-753	Venturi housing gasket	
*121-759	Dust cover gasket	
*121-760	Body gasket	
*+121-788	Idle enrichment diaphragm cover gasket (8001, 03, 62, 64, 76)	
*121-801	Venturi cover gasket	
*121-805	Body flange gasket	
136-326	Pump & metering rod arm washer	(2)
145-303	Choke diaphragm hose	
145-545	Idle enrichment hose (8001, 03, 62, 64, 76, 77, 79)	
160-337S	Vacuum piston assy.	
170-1228	Idle enrichment diaphragm cover (8001, 03, 62, 64, 76, 77, 79)	
170-857S	Thermostatic coil, housing & rod assy. (8006, 07)	
170-982S	Thermostatic coil, housing & rod assy. (all exc. 8006, 07)	
180-144	Dashpot bracket (8066)	
180-269	Solenoid bracket (8001, 03, 04, 77)	
180-276	Dashpot & solenoid bracket (8000)	
181-488	Fast idle cam (8000, 06, 66)	
181-489	Fast idle cam (8001, 03, 07, 62, 64, 76, 77, 79)	
184-118	Tube cap (8076)	
186-149	Fuel bowl baffle	
202-462S	Dashpot assy. (8000,66)	
202-590S	Choke diaphragm & bracket assy. (8007,62,64,76,77)	
202-591S	Choke diaphragm & bracket assy. (8000, 01, 03, 06, 79)	
202-404S	Idle enrichment diaphragm assy. (8001, 03, 62, 64) (Use 203-431S)	
203-430S	Idle enrichment diaphragm assy. (8001,03,62,64,76,77,79)	
*203-431S	Idle enrichment diaphragm assy. (8001, 03, 62, 64, 76) (Use 203-430S)	
213-71S	Throttle positioner assy. (8003, 64)	
213-74S	Throttle positioner assy. (8000)	
213-77S	Idle solenoid assy. (8001, 77)	

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

+Not needed when using 203-430S.
*Available in Zip-Kit only.

1974-75-76 "V8" DODGE TRUCK

BBD DOWN-DRAFT MANUAL CHOKE **CARBURETORS NOS. 6585S – 6586S**

YEAR AND MODEL			ENGINE DISPL.	C.F.M.	ORIGINAL CARB. NO.	ZIP KIT NO.
1974	D-5, 6, W-6, S-6	All/T	318-3	285	6585S	902-307
1975-76	D-5, 6, W-6 (exc. Calif.)	All/T	318-3	285	6585S	902-307
1975-76	S-6 (exc. Calif.)	All/T	318-3	285	6586S	902-307
1974	D-6, 8, C-8, CT-8, S-6	All/T	361-3	285	6586S	902-307

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THRO. BORE	FLOAT	PUMP	FAST IDLE R.P.M.	IDLE R.P.M.
6585S	1-7/16	1/4	1/2	1900	700
6586S	1-7/16	1/4	1/2	1900	700

MOTOR TUNE-UP — BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER, NEEDLE & SEAT TO RESTORE TOP PERFORMANCE. THESE PARTS ARE AVAILABLE IN CARTER ZIP KIT LISTED ABOVE.

INSTALL NEW CHOKE ASSEMBLY AT EVERY TUNE-UP.

Carter Carburetor Division

Printed in U.S.A.

St. Louis, Missouri 63132 U.S.A.

CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFIC SETTINGS

FLOAT LEVEL: Hold float lip against seated needle lightly. The dimension between top of float (at center) and top of bowl should be as specified. To adjust bent lip of float.

PUMP: Turn curb idle screw two (2) full turns clockwise from the seated position. The dimension from the top of the pump shaft to the top of bowl cover should be as specified. To adjust, loosen pump arm lock screw and revolve pump arm. Tighten screw.

METERING ROD: Loosen metering rod arm screw, press downward on piston plate until metering rods bottom. With throttle valve seated revolve metering rod arm until lip contacts piston plate, then tighten clamp screw.

FAST IDLE LINKAGE: With fast idle screw on cam between index marks, adjust fast idle connector rod so that choke is fully closed.

FAST IDLE ON CAR: With fast idle screw on cam between index marks, adjust screw to specified R.P.M.

PARTS LIST

Part No.	PART NAME	
*1A-333	Flange gasket (W/O Gov.)	
1A-334	Flange gasket (W/Gov.)	
2-303	Throttle valve	
3-1885S	Throttle shaft and lever assembly	
7-172	Choke valve	
14-914S	Choke lever and shaft assembly	
14-923	Choke lever	
14-925S	Choke lever assembly	
20-203	Needle seat gasket	
21-235S	Float assembly	
24-23	Float pin	
*25-1003S	Needle and seat assembly	
30A-198	Idle mixture screw	(2)
51-96	Throttle shaft collar	
61-58	Idle and fast idle speed screw spring	(2)
61-413	Pump spring	
61-800	Choke spring	
61-873	Idle mixture screw spring	(2)
61-967	Vacuum piston spring	
61-1014	Throttle return spring	
62-284S	Choke tube bracket assembly	
63-238	Float pin retainer	
*63-336	Choke connector rod retainer	(2)
*64-435S	Pump plunger and rod assembly	
75-2023	Step-up rod (.046")	(2)
*96-40	Idle mixture screw limiter cap	(2)
101-65	Dust cover and choke lever screw	(4)
101-307S	Air horn screw assembly	(4)
101-419	Throttle valve screw (early)	(4)
101-428	Choke diaphragm bracket screw	(2)
101-544S	Body screw assembly	(2)
101-563	Idle speed screw	
101-565	Fast idle cam screw	
101-596	Choke valve screw	(2)

Part No.	PART NAME	
101-614	Fast idle speed screw	
101-639	Venturi cluster screw	(2)
101-663	Pump and metering rod arm screw	(2)
101-680S	Body flange screw assembly	
101-726	Throttle valve screw (late)	(2)
103-14	Lead shot	
103-15	Lead shot	(2)
103-20	Lead shot	(2)
111-118	Metering rod arm	
111-120	Pump arm	
111-125U	Unitized package (consists of 111-118, 111-120, 117-217, 101-707-2, 136-326)	
113-214	Pump countershaft	
115-540	Choke connector rod	
115-546	Throttle connector rod	
*116-13	Pump discharge check ball	
*116-18	Pump intake check ball	
117-217	Pump link	
118-330S	Venturi cover assembly	
118-331	Dust cover (early)	
118-343	Dust cover (late)	
120-389	Main metering jet (.089")	(2)
*121-733	Body flange gasket	
121-801	Venturi cover gasket	
*121-753	Venturi housing gasket	
*121-759	Dust cover gasket	
*121-760	Body gasket	
136-219	Choke lever screw washer	
136-326	Pump and metering rod arm washer	
160-337S	Vacuum piston assembly	
181-470	Fast idle cam	
186-149	Fuel bowl baffle	

**Available in Zip Kit only.*

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

CARTER®

FORM 5602C
NOVEMBER, 1973
Revised Feb., 1976

1974-75-76 "V8"

DODGE TRUCK

BBD DUAL DOWN-DRAFT CLIMATIC CONTROL CARBURETOR NOS. 6536S – 6537S – 6610S
6611S – 6613S – 8008S

YEAR AND MODEL		ENGINE DISPL.	C.F.M.	ORIGINAL CARB. NO.	ZIP KIT NO.
1974 B-1,2,3 Spt. D-1, W-1	M/T	318-1	285	6610S	902-307
1974 B-1,2,3 Spt. D-1, W-1	A/T	318-1	285	6611S	902-307
1974 B-1,2,3 Spt. D-1, W-1 (Calif.)	M/T	318-1	285	8008S	902-307
1974 B-1,2,3 Spt. D-1, W-1 (Calif.)	A/T	318-1	285	6613S	902-307
1974 D-2,3, W-2,3, F-3, B-3 Van	M/T	318-1	285	6536S	902-307
1975 B-2,3, D-1,2,3, W-1,2,3, AD-1, AW-1 (exc. Calif.)	M/T	318-1	285	6536S	902-307
1974 D-2,3, W-2,3, F-3, B-3 Van	A/T	318-1	285	6537S	902-307
1975 D-2,3, W-2,3, F-3, B-3 Van, MB-3 (exc. Calif.)	A/T	318-1	285	6537S	902-307
1976 D-1,2,3, B-2,3, W-1,2,3 (exc. Calif)	M/T	318-1	285	6536S	902-307
1976 D-1,2,3, B-2,3, W-1,2,3 (exc. Calif.)	A/T	318-1	285	6537S	902-307

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

(SEE BACK PAGE FOR PROCEDURE)

CARB. NO.	THRO. BORE	FLOAT	PUMP	FAST IDLE LINKAGE	VACUUM CHOKE BREAK	UNLOADER
6610S	1-7/16	1/4	1/2	3/32	5/32	9/32
6611S	1-7/16	1/4	1/2	3/32	7/64	9/32
6613S	1-7/16	1/4	1/2	3/32	5/32	9/32
6536S	1-7/16	1/4	1/2	3/32	5/32	9/32
6537S	1-7/16	1/4	1/2	3/32	7/64	9/32
8008S	1-7/16	1/4	1/2	3/32	5/32	9/32

MOTOR TUNE-UP — BE ACCURATE!

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INSTALL NEW CHOKE ASSEMBLY AT EVERY TUNEUP.

Carter Carburetor Division
acf

Printed in U.S.A.

St. Louis, Missouri 63132 U.S.A.

FORM 5602C

CARBURETOR ADJUSTMENTS

FLOAT LEVEL: Hold float lip against seated needle lightly. The dimension between top of float (at center) and top of bowl should be as specified. To adjust, bend lip of float.

PUMP: Turn curb idle screw two (2) full turns clockwise from the seated position. The dimension from the top of the pump shaft to the top of bowl cover should be as specified. To adjust, loosen pump arm lock screw and revolve pump arm. Tighten screw.

METERING ROD: Loosen metering rod arm screw, press downward on piston plate until metering rods bottom. With throttle valve seated revolve metering rod arm until lip contacts piston plate, then tighten clamp screw.

FAST IDLE LINKAGE: With fast idle screw on the second highest step of cam, the dimension between the top edge of choke valve and wall of air horn should be as specified. To adjust, bend connector rod.

VACUUM CHOKE BREAK: By using an outside vacuum source fully depress diaphragm and close choke valve as far as possible without forcing. The dimension between top edge of choke valve and wall of air horn should be as specified. To adjust, open or close the "U" bend of connector link.

UNLOADER: With throttle valves wide open close choke valve as far as possible without forcing. The dimension between top edge of choke valve and wall of air horn should be as specified. To adjust, bend tang on throttle lever.

DASHPOT: With throttle held at 2500 R.P.M., adjust dashpot so that stem just contacts lever. Tighten lock nut.

PARTS LIST

PART NO.	PART NAME	
*1A-316	Flange gasket (6610, 11, 13, 8008)	
*1A-333	Flange gasket (6536, 37)	
2-303	Throttle valve (6610, 11-1, 6536, 37, 6613, 8008-2)	
2-317	Throttle valve (6610, 11)	
3-1882S	Throttle shaft and lever assy. (6536, 37, 6610, 11, 13) (use 3-1972)	
3-1883S	Throttle shaft and lever assy. (6610, 8008) (use 3-1970)	
3-1920S	Throttle shaft and lever assy. (6610, 8008) (use 3-1970)	
3-1970S	Throttle shaft and lever assy. (6610, 8008)	
3-1972S	Throttle shaft and lever assy. (6536, 37, 6610, 11, 13)	
7-172	Choke valve	
14-992	Choke lever	
14-993S	Choke lever and shaft assy.	
20-203	Needle seat gasket	
21-235S	Float assy.	
24-23	Float pin	
*25-1003S	Needle and seat assy	
30A-198	Idle mixture screw	(2)
51-96	Throttle shaft collar	
61-58	Idle and fast idle speed screw spring	(2)
*61-205	Step-up piston spring (6610, 11, 13, 8008)	
61-413	Pump spring	
61-538	Step-up piston spring (6536, 37)	
61-873	Idle mixture screw spring	(2)
61-1014	Throttle return spring	
63-238	Float pin retainer	
*63-336	Choke connector rod retainer	(2)
64-435S	Pump plunger and rod assy.	
75-2018	Metering rod (6536, 37 (use 75-2092)	(2)
75-2021	Metering rod (6610 – use 75-2075)	(2)
75-2022	Metering rod (6611,13,8008) (use 75-2074)	(2)
75-2062	Metering rod (6610) (use 75-2075)	(2)
75-2074	Metering rod (.070"x.0555"x.046") (6611, 13, 8008)	(2)
75-2075	Metering rod (.069"x.0555"x.049") (6610	(2)
75-2092	Metering rod (.066"x.0515"x.045") (6536,37)	(2)
*96-40	Idle mixture screw limiter cap	(2)
101-65	Dust cover screw (use 101-714)	(3)
101-296	Fast idle speed screw	
101-307S	Air horn screw assy. (6610, 8008-2) (6536, 37, 6611, 13-4)	
101-362S	Air horn screw assy. (6610, 8008)	(2)
101-419	Throttle valve screw (Early)	(4)
101-428	Choke diaphragm bracket screw	(2)
101-544S	Body screw assy.	(2)
101-563	Idle speed screw	
101-565	Fast idle cam screw	
101-569	Venturi cluster screw (6610,11,13,8008)	
101-596	Choke valve screw	(2)
101-634	Choke lever screw	
101-639	Venturi cluster screw (6536, 37)	(2)
101-680S	Body flange screw assy.	
101-707	Pump and metering rod arm screw	(2)
101-714	Dust cover screw	
101-726	Throttle valve screw (Late)	(4)
103-14	Lead shot	
103-15	Lead shot	(2)
103-20	Lead shot	(2)
105A-60	Dashpot lock nut (6610, 8008)	
111-118	Metering rod arm	
111-120	Pump arm	
111-125U	Unitized package (consists of 111-118, 111-120, 117-217, 101-707-2, 136-326)	
113-214	Pump countershaft	
115-538	Choke diaphragm rod	
115-540	Choke connector rod (use with 181-465 or 466)	
115-546	Throttle connector rod	
115-560	Choke connector rod (use with 181-477 or 478)	
*116-13	Pump discharge check ball	
*116-18	Pump intake check ball	
117-217	Pump link	
118-330S	Venturi cover assy.	
118-331	Dust cover (use 118-343)	
118-343	Dust cover	
120-386	Main metering jet (.086") (6536, 37)	
120-389	Main metering jet (.089") (6610, 11, 13, 8008)	(2)
*121-733	Body flange gasket	
*121-753	Venturi cover gasket	
*121-759	Venturi housing gasket	
*121-760	Dust cover gasket	
*121-801	Venturi cover gasket	
136-326	Pump and metering rod arm washer	
145-303	Choke diaphragm hose	
160-337S	Vacuum piston assy.	
170-982S	Thermostatic coil housing assy. (6610,11,13,8008)	
170-872S	Thermostatic coil housing assy. (6536, 37)	
180-144	Dashpot bracket (6610, 8008)	
181-465	Fast idle cam (6610, 8008) (use with 115-560)	
181-466	Fast idle cam (6611, 13) (use with 115-560)	
181-477	Fast idle cam (6536, 6610, 8008)	
181-478	Fast idle cam (6537, 6611, 13)	
186-149	Fuel bowl baffle	
202-462S	Dashpot assy. (6610, 8008)	
202-473S	Choke diaphragm & bracket assy. (6537,6611,13)	
202-497S	Choke diaphragm & bracket assy. (6536,6610,8008)	

*Available in Zip Kit only.

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

1974-75-76 "V8" DODGE TRUCK

TQ FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOs.
6545S – 6615S – 9017S – 9022S – 9025S

YEAR & MODEL			ENGINE DISPL.	C.F.M.	ORIGINAL CARB. NO.	ZIP KIT NO.
1974	D-2, 3 All/T; R-3, 4, 5	A/T	440-1	850	6545S	902-299A
1975	D-1, 2, 3; W-1, 2, 3 (Exc. Calif.)	A/T	440-1, 3	850	6545S	902-299A
1974	D-1	A/T	440-1	850	6615S	902-299A
1974	D-1 (Calif.)	A/T	440-1	850	9017S	902-299A
1974	B-1, 2; B-3 Spt; D-1, W-1	A/T	360	850	9022S	902-299A
1974	D-1	A/T	440-1	850	9025S	902-299A
1976	B-1, 2, 3; W-1, 2, 3; B-2, 3 M-4, 5, 6 (Exc. Calif.)	A/T	440-1, 3	850	6545S	902-299A

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	FLOAT LEVEL	PUMP STAGE 1	PUMP STAGE 2	VACUUM KICK	FAST IDLE CAM LINKAGE	FAST IDLE R.P.M.	UN-LOADER	BOWL VAPOR VENT
6545S	1-1/2 (P) 2-1/4 (S)	1†	9/16	11/32	5/32	3/32	2000	5/16	–
6615S	1-1/2 (P) 2-1/4 (S)	1†	1/2	–	5/32	3/32	2000	5/16	–
9017S	1-1/2 (P) 2-1/4 (S)	1†	1/2	–	5/32	3/32	2000	5/16	13/16
9022S	1-1/2 (P) 2-1/4 (S)	1†	9/16	11/32	7/32	3/32	2000	5/16	13/16
9025S	1-1/2 (P) 2-1/4 (S)	1†	1/2	–	5/32	3/32	2000	5/16	13/16

*Cellular floats set 29/32" † 31/32 Calif. Only

MOTOR TUNE-UP – BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER, NEEDLE & SEAT TO RESTORE TOP PERFORMANCE. THESE PARTS ARE AVAILABLE IN CARTER ZIP-KIT LIST ABOVE.

INSTALL NEW CHOKE ASSEMBLY AT EVERY TUNE-UP.

Carter Carburetor Division acf

Printed in U.S.A. St. Louis, Missouri 63132 U.S.A. Form 5611B

CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFICATIONS

FLOAT LEVEL: With bowl cover inverted, gasket installed and floats resting on seated needle, the dimension of each float from bowl cover gasket to bottom side of float at outer end should be as specified. To adjust, bend lever. *NOTE: Never allow lip of float to be pressed against needle when adjusting.*

SECONDARY THROTTLE LINK: Slowly open the primary throttle valves 11/32 inch from the throttle bore walls. At this point, the secondary throttle valves should just begin to open. To adjust, bend the throttle link.

SECONDARY THROTTLE LEVER PICK-UP: Apply light pressure downward on the fast idle screw to move choke control lever to the wide open choke position. The clearance between pick-up lever and top of secondary lever should be .075". To adjust, bend rear tang on throttle lever.

PUMP:

STEP 1 (ALL): With throttle valves tightly closed install throttle connector rod in center hole of pump arm. The dimension from top of bowl cover to top of plunger shaft should be as specified. To adjust, bend connector rod.

STEP 2 (MANUAL TRANS. and 9022) Open throttle slowly until the secondary throttle shaft begins to move. Hold in this position. Measure again from top of plunger shaft, it should be as specified. To adjust, bend pick-up arm on the primary throttle shaft dog.

AIR VALVE OPENING: With air valve wide open there should be 1/2" between air horn wall and inner edge of air valve. To adjust, bend corner of air valve with pliers.

AIR VALVE SPRING

1. Loosen lock plug. Rotate adjustment plug (inner) clockwise to allow air valve to position itself to wide open.
2. Check to see that air valve and shaft are operating freely.
3. To adjust, rotate adjustment plug (inner) counterclockwise until air valve just contacts the stop, then turn 1-1/4 additional turns while holding the adjustment plug in this position, tighten lock plug.

DIAPHRAGM CONNECTOR ROD: With diaphragm stem fully depressed and air valve closed, there should be .040 inch between air valve and stop. To adjust, bend diaphragm connector rod.

VACUUM KICK: Bottom the vacuum diaphragm by using an outside source of vacuum, or by pressing downward on end of diaphragm stem. Apply light pressure on choke lever to close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend tang on choke lever.

FAST IDLE CAM AND LINKAGE: With fast idle screw on second highest step of fast idle cam, close choke valve as far as possible. The dimension between the lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend connector rod.

UNLOADER: With throttle valves wide open, close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend front tang on fast idle control lever.

CURB IDLE SPEED SOLENOID ADJUSTMENT: With engine running (with solenoid energized if equipped), adjust idle mixture screws and fast curb idle adjusting screw (against solenoid plunger) to secure specified engine rpm (refer to decal in engine compartment). After specified rpm has been obtained and with engine still running (with solenoid energized) adjust slow curb idle speed screw until end of screw just touches stop. Now, back off one full turn to obtain slow curb idle speed setting.

BOWL VAPOR VENT (ON CAR): With throttle valves set at curb idle, remove plug from air horn and insert a narrow ruler in hole. Rest ruler lightly on top of valve. The dimension from top of valve to top of casting should be as specified. To adjust, bend operating lever.

FAST IDLE ON CAR: With fast idle screw on second step and against shoulder of first step of cam. Adjust fast idle screw to specified R.P.M.

PARTS LIST

PART NO.	PART NAME	
*1A-368	Flange gasket	
7-328	Air valve	
7-334S	Choke valve assembly	
11B-294	Bowl vent plug (all exc. 6545, 6615)	
11B-487	Air valve adjustment plug	
11B-488	Air valve lock plug	
13-326	Choke shaft lever	
13-327S	Air valve shaft and lever assembly	
14-999	Choke lever	
14-1000	Choke countershaft lever	
15-57	Fuel inlet fitting	
17-70	Pump discharge check needle	
20-239	Needle seat gasket	(2)
*20-243	Fuel inlet fitting gasket	
21-249S	Float assembly (use 21-243U)	(2)
21-252S	Float assembly	
21-253U	Unitized package (consists of 2-21-252S)	
24-15	Float pin and metering rod arm pin	(3)
*25-1086S	Needle and seat assembly	(2)
30A-212	Idle mixture screw	(2)
48-365S	Pump jet and housing assembly	
53A-526S	Bowl vent operating lever assembly (all exc. 6545, 6615)	
53A-563S	Fast idle operating arm assembly	
53A-566	Operating lever	
61-84	Fast idle speed screw spring	
61-761	Pump spring (upper)	
61-873	Idle mixture screw (2) and solenoid speed screw spring	(1)
61-886	Air valve spring	
61-912	Bowl vent arm spring (9017, 22, 25)	
61-915	Vacuum piston spring (6545, 6615, 9017, 25)	
61-956	Idle speed screw spring	
61-960	Vacuum piston spring (9022)	
61-979	Choke lever spring (6615, 9017, 25)	
61-995	Choke lever spring (9022)	
61-1012	Choke lever spring (6545) (use 61-1040)	
61-1040	Choke lever spring (6545)	
63-251	Retainer (9025)	
*63-336	Connector rod retainer	(5)
*63-426S	Intake check retainer assembly (use 64-447U)	
64-432S	Pump plunger assembly (use 64-447U)	
64-436U	Unitized package (consists of 1-63-426S 1-64-432S) (use 64-447U)	
*64-439S	Pump plunger assembly (use 64-447U)	
64-447U	Unitized packe (consists of 1-63-426, 1-64-439S)	
65-68	Step up piston cover plate (early)	
65-71	Step-up cover plate (L-H)	
65-72	Step-up cover plate (R-H)	
65-87	Step-up piston cover plate (Late)	
75-1966	Metering rod (.067"x.052"x.045") (6615, 9017, 22, 25)	(2)
75-2024	Metering rod (.066"x.054"x.040") (6545)	(2)
*96-40	Idle mixture screw limiter cap	(2)
101-277S	Metering rod cam screw	
101-387	Idle speed screw	
101-421	Pump arm screw	
101-505	Diaphragm and solenoid bracket screw	(2)
101-596	Air, choke valve and lever screw	(5)
101-616	Bowl cover screw	(10)
101-617	Cover plate screw	(3)
101-618	Pump jet housing screw	
101-635	Bowl vent and solenoid operating screw (9017, 22, 25)	
101-663	Primary and secondary throttle valve screw	(8)
101-667	Fast idle operating lever screw	
101-693	Choke countershaft lever screw	
101-702	Fast idle speed screw	
105A-51	Idle solenoid lock nut (9022)	
111-110	Metering rod arm	
111-122	Pump arm	
113-210S	Choke countershaft and lever assembly	
114-194	Choke lever	
115-500	Bowl vent connector rod (9017, 22, 25)	
115-507	Fast idle connector rod	
115-521	Choke connector rod	
115-522	Choke diaphragm connector rod	
115-552	Throttle connector rod	
117-190	Pump connector link	
120-4095	Primary metering jet (all exc. 6545, 6615)	(2)
120-4096	Primary metering jet (6545)	
120-4098	Primary metering jet (6615)	(2)
120-5137S	Secondary metering jet (6545, 6615, 9017, 25)	(2)
120-5143S	Secondary metering jet (9022)	(2)
*121-662	Pump jet housing gasket	
*121-688	Air horn gasket	
*121-706	Body flange gasket	
136-300	Throttle shaft spring washer (9017, 22, 25)	
136-308	Choke diaphragm connector rod washer	
145-304	Choke diaphragm hose	
*145-406	Pump passage tube	
*150A-14	Pin spring (all exc. 6545, 6615)	
160-317S	Step-up piston and link assembly	
*163-131	Quad X ring	
*164-30	Grommet seal (9017, 22, 25)	(2)
170-859S	Thermostatic coil housing and rod assembly (9022)	
170-861S	Thermostatic coil housing and rod assembly (6615, 9017, 25)	
170-863S	Thermostatic coil housing and rod assembly (6545)	
180-225	Idle solenoid bracket (9022)	
181-434	Metering rod cam	
186-158	Secondary baffle plate	
202-407S	Choke diaphragm and bracket assembly	
213-62S	Idle solenoid assembly (9022)	

**Available in Kits Only.*

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

1974 "V8"
CHRYSLER C, Y - DODGE D, W
PLYMOUTH P, R

TQ FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOs.
6460S – 6461S – 9015S – 9016S – 9023S – 9024S – 9049S

MODEL		ENGINE DISPL.	C.F.M.	ORIGINAL CARB. NO.	ZIP KIT NO.
P, D, C, Y (A-120)	A/T	440	850	6460S	902-299A
P, D, C, Y (A-120) (Calif.)	A/T	440	850	6461S	902-299A
R, W, P, D, C (A-134)	A/T	440	850	9015S	902-299A
R, W, P, D, C (A-134) (Calif.) (Early)	A/T	440	850	9016S	902-299A
P, D, C, Y (A-120)	A/T	440	850	9023S	902-299A
P, D, C, Y (A-120) (Calif.)	A/T	440	850	9024S	902-299A
R, W, P, D, C (A-134) (Calif.) (Late)	A/T	440	850	9049S	902-299A

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	FLOAT LEVEL	PUMP	VACUUM KICK	FAST IDLE CAM LINKAGE	FAST IDLE R.P.M.	UN-LOADER	BOWL VAPOR VENT
6460S	1-1/2 (P) 2-1/4 (S)	1*	1/2	5/32	3/32	1700	5/16	–
6461S	1-1/2 (P) 2-1/4 (S)	1*	1/2	5/32	3/32	1700	5/16	–
9015S	1-1/2 (P) 2-1/4 (S)	1*	1/2	5/32	3/32	1700	5/16	13/16
9016S	1-1/2 (P) 2-1/4 (S)	1*	1/2	5/32	3/32	1700	5/16	13/16
9023S	1-1/2 (P) 2-1/4 (S)	1*	1/2	5/32	3/32	1700	5/16	13/16
9024S	1-1/2 (P) 2-1/4 (S)	1*	1/2	5/32	3/32	1700	5/16	13/16
9049S	1-1/2 (P) 2-1/4 (S)	31/32"	1/2	5/32"	3/32	1700	5/16	13/16

**Cellular floats set 29/32"*

MOTOR TUNE-UP — BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER, NEEDLE & SEAT TO RESTORE TOP PERFORMANCE. THESE PARTS ARE AVAILABLE IN CARTER ZIP KIT LISTED ABOVE.

INSTALL NEW CHOKE PULL OFF AND/OR CHOKE ASSEMBLY AT EVERY TUNEUP.

Carter Carburetor Division

acf

Printed in U.S.A. St. Louis, Missouri 63107 U.S.A. Form 5609A

CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFICATIONS

FLOAT LEVEL: With bowl cover inverted, gasket installed and floats resting on seated needle, the dimension of each float from bowl cover gasket to bottom side of float at outer end should be as specified. To adjust, bend lever. *NOTE: Never allow lip of float to be pressed against needle when adjusting.*

SECONDARY THROTTLE LINK: Slowly open the primary throttle valves 11/32 inch from the throttle bore walls. At this point, the secondary throttle valves should just begin to open. To adjust, bend the throttle link.

SECONDARY THROTTLE LEVER PICK-UP: Apply light pressure downward on the fast idle screw to move choke control lever to the wide open choke position. The clearance between pick-up lever and top of secondary lever should be .075". To adjust, bend rear tang on throttle lever.

PUMP: With throttle valves tightly closed, install throttle connector rod in center hole of pump arm. The dimension from top of bowl cover to top of plunger shaft should be as specified. To adjust, bend connector rod.

AIR VALVE OPENING: With air valve wide open there should be 1/2" between air horn wall and inner edge of air valve. To adjust, bend corner of air valve with pliers.

AIR VALVE SPRING: 1. Loosen lock plug. Rotate adjustment plug (inner) clockwise to allow air valve to position itself to wide open. 2. Check to see that air valve and shaft are operating freely. 3. To adjust, rotate adjustment plug (inner) counterclockwise until air valve just contacts the stop. Then turn 1 additional turn. While holding the adjustment plug in this position, tighten lock plug.

DIAPHRAGM CONNECTOR ROD: With diaphragm stem fully depressed and air valve closed, there should be .040 inch between air valve and stop. To adjust, bend diaphragm connector rod.

VACUUM KICK: Bottom the vacuum diaphragm by using an outside source of vacuum, or by pressing downward on end of diaphragm stem. Apply light pressure on choke lever to close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend tang on choke lever.

FAST IDLE CAM AND LINKAGE: With fast idle screw on second highest step of fast idle cam, close choke valve as far as possible. The dimension between the lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend connector rod.

UNLOADER: With throttle valves wide open, close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend front tang on fast idle control lever.

CURB IDLE SPEED SOLENOID ADJUSTMENT: With engine running (with solenoid energized if equipped), adjust idle mixture screws and fast curb idle adjusting screw (against solenoid plunger) to secure specified engine rpm (refer to decal in engine compartment). After specified rpm has been obtained and with engine still running (with solenoid energized), adjust slow curb idle speed screw until end of screw just touches stop. Now, back off one full turn to obtain slow curb idle speed setting.

BOWL VAPOR VENT (ON CAR): With throttle valves set at curb idle, remove plug from air horn and insert a narrow ruler in hole. Rest ruler lightly on top of valve. The dimension from top of valve to top of casting should be as specified. To adjust, bend operating lever.

FAST IDLE ON CAR: With fast idle screw on second step and against shoulder of first step of cam. Adjust fast idle screw to specified R.P.M.

PARTS LIST

Part No.	PART NAME	
1A-368	Flange gasket	
7-334S	Choke valve assy.	
7-328	Air valve	
11B-294	Bowl vent plug	
11B-487	Air valve adjustment plug	
11B-488	Air valve lock plug	
13-326	Choke shaft lever	
13-327S	Air valve shaft and lever assy.	
14-999	Choke lever	
14-1000	Choke countershaft lever	
15-57	Fuel inlet fitting	
17-70	Pump discharge check needle	
20-239	Needle seat gasket	(2)
20-243	Fuel inlet fitting gasket	
21-249S	Float assy. (Use 21-253U)	(2)
21-252S	Float assy.	(2)
21-253U	Unitized package (consists of 2—21-252S)	
24-15	Float pin and metering rod arm pin	(3)
25-1086S	Needle and seat assy.	(2)
30A-212	Idle mixture screw	(2)
48-365S	Pump jet and housing assy.	
53A-526S	Bowl vent operating lever assy. (9015, 9016, 49)	
53A-539S	Solenoid operating lever assy. (9015, 9016)	
53A-563S	Fast idle operating arm assy.	
53A-565	Bowl vent arm (All exc. 6460, 61)	
53A-566	Operating lever (All exc. 6460, 61, 9015, 16, 49)	
53A-572S	Solenoid operating lever assy. (9049)	
61-84	Fast idle speed screw spring	
61-761	Pump spring (upper)	
61-873	Idle mixture screw (2) and solenoid speed screw spring (1)	
61-886	Air valve spring	
61-912	Bowl vent arm spring (9015, 9016, 49)	
61-915	Vacuum piston spring (all exc. 9049)	
61-956	Idle speed screw spring	
61-960	Vacuum piston spring (9049)	
61-979	Choke lever spring	
63-251	Retainer (all exc. 9049)	
63-336	Connector rod retainer	(5)
63-426S	Intake check retainer assy. (Use 64-436U)	
64-432S	Pump plunger assy. (Use 64-436U)	
64-436U	Unitized package (consists of 1—63-426S, 1—64-432S)	
65-68	Step-up piston cover plate	
65-71	Step-up cover plage (L-H)	
65-72	Step-up cover plate (R-H)	
75-1966	Metering rod (.067"x.052"x.045") (6460, 9016, 23)	(2)
75-2005	Metering rod (.065"x.055"x.040") (6461, 9015, 24, 49)	(2)

Part No.	PART NAME	
96-40	Idle mixture screw limiter cap	(2)
101-277S	Metering rod cam screw	
101-387	Idle speed screw	
101-421	Pump arm screw	
101-505	Diaphragm and solenoid bracket screw (6460, 61, 9023, 24-1, 9015, 16, 49-2)	
101-596	Air, choke valve and lever screw	(5)
101-616	Bowl cover screw	(10)
101-617	Cover plate screw	(3)
101-618	Pump jet housing screw	
101-629	Solenoid adjusting screw (9015, 9016, 49)	
101-635	Bowl vent & solenoid operating arm screw (9015, 9016, 49)	
101-663	Primary and secondary throttle valve screw	(8)
101-667	Fast idle operating lever screw	
101-693	Choke countershaft lever screw	
101-702	Fast idle speed screw	
105A-51	Solenoid lock nut (9015, 9016, 49)	
111-110	Metering rod arm	
111-122	Pump arm	
113-210S	Choke countershaft and lever assy.	
114-194	Choke lever	
115-500	Bowl vent connector rod (9015, 9016, 23, 24, 49)	
115-507	Fast idle connector rod	
115-521	Choke connector rod	
115-522	Choke diaphragm connector rod	
115-552	Throttle connector rod	
117-190	Pump connector link	
120-4098	Primary metering jet	(2)
120-5137S	Secondary metering jet	(2)
121-662	Pump jet housing gasket	
121-688	Air horn gasket	
121-706	Body flange gasket	
136-300	Throttle shaft spring washer (9015, 9016, 23, 24, 49)	
136-308	Choke diaphragm connector rod washer	
145-304	Choke diaphragm hose	
145-406	Pump passage tube	
150A-14	Pin spring	
160-317S	Step-up piston and link assy.	
163-131	Quad X ring	(2)
164-30	Grommet seal (9015, 9016, 23, 24, 49)	
170-861S	Thermostatic coil housing and rod assy.	
180-225	Solenoid bracket (9015, 16, 49)	
181-434	Metering rod cam	
186-158	Secondary baffle plate	
202-407S	Choke diaphragm and bracket assy.	
213-61S	Idle solenoid assy. (9015, 16, 49)	

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

1974 "V8"

BARRACUDA B - CHALLENGER J

DODGE W-DART L -

PLYMOUTH R-VALIANT V

TQ FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL **CARBURETORS NOS. 6452S – 6453S – 6454S – 6455S – 6488S – 9013S**

MODEL		ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP FIT NO.
B, J, L, R, V, W	M/T	360	6452S	6452S	902-299A
B, J, L, R, V, W	A/T	360	6453S	6453S	902-299A
B, J, L, R, V, W (Calif.)	M/T	360	6454S	6454S	902-299A
B, J, L, R, V, W (Calif.)	A/T	360	6455S	6455S	902-299A
R, W, Exc. STA-WGN & PD (Calif.)	A/T	360	6488S	6488S	902-299A
R, W, STA-WGN (Calif.)	A/T	360	9013S	9013S	902-299A

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	C.F.M.	FLOAT LEVEL	PUMP STAGE 1	PUMP STAGE 2	VACUUM KICK	FAST IDLE CAM & LINKAGE	FAST IDLE R.P.M.	UN-LOADER	BOWL VAPOR VENT
6452S	1-1/2 (P) 2-1/4 (S)	850	1*	9/16	11/32	7/32	3/32	1900	5/16	–
6453S	1-1/2 (P) 2-1/4 (S)	850	1*	1/2	None	5/32	3/32	1900	5/16	–
6454S	1-1/2 (P) 2-1/4 (S)	850	1*	9/16	11/32	7/32	3/32	1900	5/16	–
6455S	1-1/2 (P) 2-1/4 (S)	850	1*	1/2	None	5/32	3/32	1900	5/16	–
6488S	1-1/2 (P) 2-1/4 (S)	850	1*	9/16	11/32	5/32	3/32	1800	5/16	–
9013S	1-1/2 (P) 2-1/4 (S)	850	1*	1/2	None	5/32	3/32	1800	5/16	13/16

*Cellular floats set at 29/32"

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug Gap .035"	Idle Mixture Screw Limiter Cap Type	Idle R.P.M. See Decal in Engine Compartment

Carter Carburetor Division acf

Printed in U.S.A.

St. Louis, Missouri 63107 U.S.A.

Form 5610

CARBURETOR ADJUSTMENTS

FLOAT LEVEL

With bowl cover inverted, gasket installed and floats resting on seated needle, the dimension of each float from bowl cover gasket to bottom side of float at outer end should be as specified. To adjust, bend lever. *NOTE: Never allow lip of float to be pressed against needle when adjusting.*

SECONDARY THROTTLE LINK

Slowly open the primary throttle valves 11/32 inch from the throttle bore walls. At this point, the secondary throttle valves should just begin to open. To adjust, bend the throttle link.

SECONDARY THROTTLE LEVER PICK-UP

Apply light pressure downward on the fast idle screw to move choke control lever to the wide open choke position. The clearance between pick up lever and top of secondary lever should be .075". To adjust, bend rear tang on throttle lever.

PUMP

STEP 1 (ALL)

With throttle valves tightly closed install throttle connector rod in center hole of pump arm. The dimension from top of bowl cover to top of plunger shaft should be as specified. To adjust, bend connector rod.

STEP 2 (MANUAL TRANS. and 6455, 6488)

Open throttle slowly until the secondary throttle shaft begins to move. Hold in this position. Measure again from top of plunger shaft, it should be as specified. To adjust, bend pick up arm on the primary throttle shaft dog.

AIR VALVE OPENING

With air valve wide open there should be 1/2" between air horn wall and inner edge of air valve. To adjust, bend corner of air valve with pliers.

AIR VALVE SPRING

1. Loosen lock plug. Rotate adjustment plug (inner) clockwise to allow air valve to position itself to wide open.
2. Check to see that air valve and shaft are operating freely.
3. To adjust, rotate adjustment plug (inner) counterclockwise until air valve just contacts the stop, then turn 1-1/4 additional turns while holding the adjustment plug in this position, tighten lock plug.

DIAPHRAGM CONNECTOR ROD

With diaphragm stem fully depressed and air valve closed, there should be .040 inch between air valve and stop. To adjust, bend diaphragm connector rod.

VACUUM KICK

Bottom the vacuum diaphragm by using an outside source of vacuum, or by pressing downward on end of diaphragm stem. Apply light pressure on choke lever to close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend tang on choke lever.

FAST IDLE CAM AND LINKAGE

With fast idle screw on second highest step of fast idle cam, close choke valve as far as possible. The dimension between the lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend connector rod.

UNLOADER

With throttle valves wide open, close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend front tang on fast idle control lever.

CURB IDLE SPEED SOLENOID ADJUSTMENT

With engine running (with solenoid energized if equipped), adjust idle mixture screws and fast curb idle adjusting screw (against solenoid plunger) to secure specified engine rpm (refer to decal in engine compartment). After specified rpm has been obtained and with engine still running (with solenoid energized) adjust slow curb idle speed screw until end of screw just touches stop. Now, back off one full turn to obtain slow curb idle speed setting.

BOWL VAPOR VENT (ON CAR)

With throttle valves set at curb idle, remove plug from air horn and insert a narrow ruler in hole. Rest ruler lightly on top of valve. The dimension from top of valve to top of casting should be as specified. To adjust, bend operating lever.

FAST IDLE ON CAR

With fast idle screw on second step and against shoulder of first step of cam. Adjust fast idle screw to specified R.P.M.

PARTS LIST

Part No.	PART NAME	
1A-368	Flange gasket	
7-334S	Choke valve assembly	
7-328	Air valve	
11B-294	Bowl vent plug (9013)	
11B-487	Air valve adjustment plug	
11B-488	Air valve lock plug	
13-326	Choke shaft lever	
13-327S	Air valve shaft and lever assembly	
14-999	Choke lever	
14-1000	Choke countershaft lever	
15-57	Fuel inlet fitting	
17-70	Pump discharge check needle	
20-239	Needle seat gasket	(2)
20-243	Fuel inlet fitting gasket	
21-249S	Float assembly (use 21-253U)	(2)
21-252S	Float assembly	(2)
21-253U	Unitized package (consists of 2-21-252S)	
24-15	Float pin and metering rod arm pin	(3)
25-1086S	Needle and seat assembly	(2)
30A-212	Idle mixture screw	(2)
48-365S	Pump jet and housing assembly (6488, 9013)	
48-369S	Pump jet and housing assembly (6453, 55)	
48-374S	Pump jet and housing assembly (6452, 54)	
53A-523	Bowl vent arm (9013)	
53A-526S	Bowl vent operating lever assembly (9013)	
53A-527	Operating lever (9013)	
53A-539S	Solenoid operating lever assembly (all exc. 6488, 9013)	
53A-563S	Fast idle operating arm assembly	
61-84	Fast idle speed screw spring	
61-761	Pump spring (upper)	
61-873	Idle mixture screw (2) and solenoid speed screw spring	(1)
61-886	Air valve spring	
61-912	Bowl vent arm spring (9013)	
61-915	Vacuum piston spring (all exc. 6488, 9013)	
61-956	Idle speed screw spring	
61-960	Vacuum piston spring (6488, 9013)	
61-979	Choke lever spring (6453, 55, 88, 9013)	
61-1012	Choke lever spring (6452, 54)	
63-336	Connector rod retainer	(5)
63-426S	Intake check retainer assembly (use 64-436U)	
64-432S	Pump plunger assembly (use 64-436U)	
64-436U	Unitized package (consists of 1-63-426S, 1-64-432S)	
65-68	Step-up piston cover plate	
65-71	Step-up cover plate (L-H)	
65-72	Step-up cover plate (R-H)	
75-1962	Metering rod (.067"x.055"x.045") (6452, 54)	(2)
75-1966	Metering rod (.067"x.052"x.045") (6488, 9013)	(2)

Part No.	PART NAME	
75-2005	Metering rod (.065"x.045"x.040") (6453, 55)	(2)
96-40	Idle mixture screw limiter cap	(2)
101-277S	Metering rod cam screw	
101-387	Idle speed screw	
101-421	Pump arm screw	
101-505	Diaphragm and solenoid bracket screw	(2)
101-596	Air, choke valve and lever screw	(5)
101-616	Bowl cover screw	(10)
101-617	Cover plate screw	(3)
101-618	Pump jet housing screw	
101-629	Solenoid adjusting screw (all exc. 6488, 9013)	
101-635	Solenoid operating arm screw (all exc. 6488, 9013)	
101-663	Primary and secondary throttle valve screw	(8)
101-667	Fast idle operating lever screw	
101-693	Choke countershaft lever screw	
101-702	Fast idle speed screw	
106A-51	Solenoid lock nut (all exc. 6488, 9013)	
111-110	Metering rod arm	
111-122	Pump arm	
113-210S	Choke countershaft and lever assembly	
114-194	Choke lever	
115-500	Bowl vent connector rod (9013)	
115-507	Fast idle connector rod	
115-521	Choke connector rod	
115-522	Choke diaphragm connector rod	
115-552	Throttle connector rod	
117-190	Pump connector link	
120-4098	Primary metering jet	(2)
120-5143S	Secondary metering jet assembly	(2)
121-662	Pump jet housing gasket	
121-688	Air horn gasket	
121-706	Body flange gasket	
136-300	Throttle shaft spring washer (9013)	
136-308	Choke diaphragm connector rod washer	
145-304	Choke diaphragm hose	
145-406	Pump passage tube	
150A-14	Pin spring (9013)	
160-317S	Step-up piston and link assembly	
163-131	Quad X ring	(2)
164-30	Grommet seal (9013)	
170-859S	Thermostatic coil housing and rod assembly	
180-225	Solenoid bracket (all exc. 6488, 9013)	
181-434	Metering rod cam	
186-158	Secondary baffle plate	
202-407S	Choke diaphragm and bracket assembly (6488, 9013)	
202-414S	Choke diaphragm and bracket assembly (all exc. 6488, 9013)	
213-61S	Idle solenoid assembly (all exc. 6488, 9013)	

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

1974 "V8"
CHRYSLER C, - DODGE D, W
PLYMOUTH P, R

TQ FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOs.
6456S – 6457S – 6503S – 9014S

MODEL		ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
R, W, P, D	M/T	400	6456S	6456S	902-299A
R, W, P, D	A/T	400	6457S	6457S	902-299A
W (Export)	A/T	400	6503S	6503S	902-299A
R, W, P, D, C	A/T	400	9014S	9014S	902-299A

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	C.F.M.	FLOAT LEVEL	PUMP STAGE 1	PUMP STAGE 2	VACUUM KICK	FAST IDLE CAM LINKAGE	FAST IDLE R.P.M.	UN-LOADER	BOWL VAPOR VENT
6456S	1-1/2 (P) 2-1/4 (S)	850	1*	9/16	11/32	5/32	3/32	1700	5/16	–
6457S	1-1/2 (P) 2-1/4 (S)	850	1*	1/2	–	5/32	3/32	1800	5/16	13/16
6503S	1-1/2 (P) 2-1/4 (S)	850	1*	1/2	–	5/32	3/32	1700	5/16	–
9014S	1-1/2 (P) 2-1/4 (S)	850	1*	1/2	–	5/32	3/32	2000	5/16	13/16

*Cellular floats set 29/32"

MOTOR TUNE-UP – BE ACCURATE!

Idle Mixture Screw Limiter Cap Type	Idle R.P.M. See Decal in Engine Compartment

Carter Carburetor Division acf

FLOAT LEVEL: With bowl cover inverted, gasket installed and floats resting on seated needle, the dimension of each float from bowl cover gasket to bottom side of float at outer end should be as specified. To adjust, bend lever. *NOTE: Never allow lip of float to be pressed against needle when adjusting.*

SECONDARY THROTTLE LINK: Slowly open the primary throttle valves 11/32 inch from the throttle bore walls. At this point, the secondary throttle valves should just begin to open. To adjust, bend the throttle link.

SECONDARY THROTTLE LEVER PICK-UP: Apply light pressure downward on the fast idle screw to move choke control lever to the wide open choke position. The clearance between pick-up lever and top of secondary lever should be .075". To adjust, bend rear tang on throttle lever.

PUMP: STEP 1 (ALL) – With throttle valves tightly closed install throttle connector rod in center hole of pump arm. The dimension from top of bowl cover to top of plunger shaft should be as specified. To adjust, bend connector rod.
STEP 2 (MANUAL TRANS. ONLY) – Open throttle slowly until the secondary throttle shaft begins to move. Hold in this position. Measure again from top of plunger shaft, it should be as specified. To adjust bend pick-up arm on the primary throttle shaft dog.

AIR VALVE OPENING: With air valve wide open there should be 1/2" between air horn wall and inner edge of air valve. To adjust, bend corner of air valve with pliers.

AIR VALVE SPRING: 1. Loosen lock plug. Rotate adjustment plug (inner) clockwise to allow air valve to position itself to wide open. 2. Check to see that air valve and shaft are operating freely. 3. To adjust, rotate adjustment plug (inner) counterclockwise until air valve just contacts the stop. Then turn 1 additional turn. While holding the adjustment plug in this position, tighten lock plug.

DIAPHRAGM CONNECTOR ROD: With diaphragm stem fully depressed and air valve closed, there should be .040 inch between air valve and stop. To adjust, bend diaphragm connector rod.

VACUUM KICK: Bottom the vacuum diaphragm by using an outside source of vacuum, or by pressing downward on end of diaphragm stem. Apply light pressure on choke lever to close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend tang on choke lever.

FAST IDLE CAM AND LINKAGE: With fast idle screw on second highest step of fast idle cam, close choke valve as far as possible. The dimension between the lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend connector rod.

UNLOADER: With throttle valves wide open, close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend front tang on fast idle control lever.

CURB IDLE SPEED SOLENOID ADJUSTMENT: With engine running (with solenoid energized if equipped), adjust idle mixture screws and fast curb idle adjusting screw (against solenoid plunger) to secure specified engine rpm (refer to decal in engine compartment). After specified rpm has been obtained and with engine still running (with solenoid energized), adjust slow curb idle speed screw until end of screw just touches stop. Now, back off one full turn to obtain slow curb idle speed setting.

BOWL VAPOR VENT (ON CAR): With throttle valves set at curb idle, remove plug from air horn and insert a narrow ruler in hole. Rest ruler lightly on top of valve. The dimension from top of valve to top of casting should be as specified. To adjust, bend operating lever.

FAST IDLE ON CAR: With fast idle screw on second step and against shoulder of first step of cam. Adjust fast idle screw to specified R.P.M.

PARTS LIST

Part No.	PART NAME	
1A-368	Flange gasket	
7-334S	Choke valve assembly	
7-328	Air valve	
11B-294	Bowl vent plug (6457, 9014)	
11B-487	Air valve adjustment plug	
11B-488	Air valve lock plug	
13-326	Choke shaft lever	
13-327S	Air valve shaft and lever assembly	
14-999	Choke lever	
14-1000	Choke countershaft lever	
15-57	Fuel inlet fitting	
17-70	Pump discharge check needle	
20-239	Needle seat gasket	(2)
20-243	Fuel inlet fitting gasket	
21-249S	Float assembly (Use 21-253U)	(2)
21-252S	Float assembly	(2)
21-253U	Unitized package (consists of 2–21-252S)	
24-15	Float pin and metering rod arm pin	(3)
25-1086S	Needle and seat assembly	(2)
30A-212	Idle mixture screw	(2)
48-369S	Pump jet and housing assembly (6457, 6503, 9014)	
48-374S	Pump jet and housing assembly (6456)	
53A-523	Bowl vent arm (6457, 9014)	
53A-526S	Bowl vent operating lever assembly (6457, 9014)	
53A-527	Solenoid operating lever (6457, 9014)	
53A-539S	Solenoid operating lever assembly (6456, 57, 9014)	
53A-552S	Pump operating lever assembly (6457, 6503, 9014)	
53A-554S	Pump operating lever assembly (6456)	
53A-563S	Fast idle operating arm assembly	
61-84	Fast idle speed screw spring	
61-761	Pump spring (upper)	
61-873	Idle mixture screw (2) and solenoid speed screw spring (1)	
61-886	Air valve spring	
61-912	Bowl vent arm spring (6457, 9014)	
61-915	Vacuum piston spring	
61-956	Idle speed screw spring	
61-979	Choke lever spring (6457, 6503, 9014)	
61-1012	Choke lever spring (6456)	
63-336	Connector rod retainer	(5)
63-426S	Intake check retainer assembly (Use 64-436U)	
64-432S	Pump plunger assembly (Use 64-436U)	
64-436U	Unitized package (consists of 1–63-426S, 1–64-432S)	
65-68	Step-up piston cover plate	
65-71	Step-up cover plate (L-H)	
65-72	Step-up cover plate (R-H)	
75-1966	Metering rod (.067"x.052"x.045") (6456, 6457, 6503)	(2)
75-2005	Metering rod (.065"x.055"x.040") (9014)	(2)

Part No.	PART NAME	
96-40	Idle mixture screw limiter cap	(2)
101-277S	Metering rod cam screw	
101-387	Idle speed screw	
101-421	Pump arm screw	
101-505	Diaphragm and solenoid bracket screw (6456, 57, 9014-2, 6503-1)	
101-596	Air, choke valve and lever screw	(5)
101-616	Bowl cover screw	(10)
101-617	Cover plate screw	(3)
101-618	Pump jet housing screw	
101-629	Solenoid adjusting screw (6456, 57, 9014)	
101-635	Bowl vent and solenoid operating arm screw (6456, 57, 9014)	
101-663	Primary and secondary throttle valve screw	(8)
101-667	Fast idle operating lever screw	
101-693	Choke countershaft lever screw	
101-702	Fast idle speed screw	
105A-51	Solenoid lock nut (6456, 6457, 9014)	
111-110	Metering rod arm	
111-122	Pump arm	
113-210S	Choke countershaft and lever assembly	
114-194	Choke lever	
115-500	Bowl vent connector rod (6457, 9014)	
115-507	Fast idle connector rod	
115-521	Choke connector rod	
115-522	Choke diaphragm connector rod	
115-552	Throttle connector rod	
117-190	Pump connector link	
120-4098	Primary metering jet	(2)
120-5143S	Secondary metering jet	(2)
121-662	Pump jet housing gasket	
121-688	Air horn gasket	
121-706	Body flange gasket	
136-300	Throttle shaft spring washer (6457, 9014)	
136-308	Choke diaphragm connector rod washer	
145-304	Choke diaphragm hose	
145-406	Pump passage tube	
150A-14	Pin spring (6457, 9014)	
160-317S	Step-up piston and link assembly	
163-131	Quad X ring	(2)
164-30	Grommet seal (6457, 9014)	
170-861S	Thermostatic coil, housing and rod assembly (6456, 57)	
170-863S	Thermostatic coil and housing assembly (6503)	
170-978S	Thermostatic coil and housing assembly (9014)	
180-225	Solenoid bracket (6456, 57, 9014)	
181-434	Metering rod cam	
186-158	Secondary baffle plate	
202-407S	Choke diaphragm and bracket assembly (all exc. 6456)	
202-414S	Choke diaphragm and bracket assembly (6456)	
213-61S	Idle solenoid assembly (6456, 57, 9014)	

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

1974 "V8"

DODGE D,W - DART L

(EXPORT)

BBD DUAL DOWN-DRAFT CLIMATIC CONTROL CARBURETOR NOS. 6491S – 6492S

MODEL		ENG. DISPL.	C.F.M.	ORIGINAL CARB. NO.	ZIP KIT NO.
D, W, L (Export)	M/T	318	280	6491S	902-307
D, W, L (Export)	A/T	318	280	6492S	902-307

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

(SEE BACK PAGE FOR PROCEDURE)

CARB. NO.	THRO. BORE	FLOAT	PUMP	FAST IDLE LINKAGE	CHOKE PULL-OFF	UNLOADER
6491S	1-7/16	1/4	1/2	3/32	5/32	9/32
6492S	1-7/16	1/4	1/2	3/32	7/64	9/32

MOTOR TUNE-UP — BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER, NEEDLE & SEAT TO RESTORE TOP PERFORMANCE. THESE PARTS ARE AVAILABLE IN CARTER ZIP KIT LISTED ABOVE.

INSTALL NEW CHOKE PULL OFF AND/OR CHOKE ASSEMBLY AT EVERY TUNEUP.

Carter Carburetor Division

CARBURETOR ADJUSTMENTS

FLOAT LEVEL: Hold float lip against seated needle lightly. The dimension between top of float (at center) and top of bowl should be as specified. To adjust, bend lip of float.

PUMP: With pump link in outer hole of pump arm, turn curb idle screw two (2) full turns clockwise from the seated position. The dimension from the top of the pump shaft to the top of bowl cover should be as specified. To adjust, loosen pump arm lock screw and revolve pump arm. Tighten screw.

METERING ROD: Loosen metering rod arm screw, press downward on piston plate until metering rods bottom. With throttle valve seated revolve metering rod arm until lip contacts piston plate, then tighten clamp screw.

FAST IDLE LINKAGE: With fast idle screw on the second highest step of cam, the dimension between the top edge of choke valve and wall of air horn should be as specified. To adjust, bend connector rod.

CHOKE PULL-OFF: By using an outside vacuum source fully depress diaphragm and close choke valve as far as possible without forcing. The dimension between top edge of choke valve and wall of air horn should be as specified. To adjust, open or close the "U" bend of connector link.

UNLOADER: With throttle valves wide open close choke valve as far as possible without forcing. The dimension between top edge of choke valve and wall of air horn should be as specified. To adjust, bend tang on throttle lever.

IDLE R.P.M.: See decal in engine compartment.

PARTS LIST

PART NO.	PART NAME	
*1A-316	Flange gasket	
2-303	Throttle valve	
3-1882S	Throttle shaft and lever assembly	
7-172	Choke valve	
14-992	Choke lever	
14-993S	Choke lever and shaft assembly	
20-203	Needle seat gasket	
21-235S	Float assembly	
24-23	Float pin	
*25-1003S	Needle and seat assembly (flared tip)	
30A-198	Idle mixture screw	(2)
51-96	Throttle shaft collar	
61-58	Idle and fast idle speed screw spring	(2)
*61-205	Step-up piston spring	
61-413	Pump spring	
61-873	Idle mixture screw spring	(2)
61-985	Throttle return spring	
63-238	Float pin retainer	
*63-336	Choke connector rod retainer	(2)
*64-435S	Pump plunger and rod assembly	
75-2021	Metering rod (Use 75-2075)	(2)
75-2075	Metering rod (.069" x .049")	(2)
101-65	Dust cover screw (Use 101-714)	(3)
101-296	Fast idle speed screw	
101-307S	Air horn screw assembly	(4)
101-419	Throttle valve screw	(4)
101-428	Choke diaphragm bracket screw	(2)
101-544S	Body screw assembly	(2)
101-563	Idle speed screw	
101-565	Fast idle cam screw	
101-569	Venturi cluster screw	(2)
101-596	Choke valve screw	(2)
101-634	Choke lever screw	
101-680S	Body flange screw assembly	

PART NO.	PART NAME	
101-707	Pump and metering rod arm screw	(2)
101-714	Dust cover screw	
103-14	Lead shot	
103-15	Lead shot	(2)
103-20	Lead shot	(2)
111-118	Metering rod arm	
111-120	Pump arm	
113-214	Pump countershaft	
115-538	Choke diaphragm rod	
115-540	Choke connector rod (Use with 181-465, 466)	
115-546	Throttle connector rod	
115-560	Choke connector rod (Use with 181-477 or 478)	
*116-13	Pump discharge check ball	
*116-18	Pump intake check ball	
117-217	Pump link	
118-330S	Venturi cover assembly	
118-331	Dust cover	
120-389	Main metering jet (.089")	(2)
*121-733	Body flange gasket	
*121-752	Venturi cover gasket	
*121-753	Venturi housing gasket	
*121-759	Dust cover gasket	
*121-760	Body gasket	
136-326	Pump and metering rod arm washer	
145-303	Choke diaphragm hose	
160-337S	Vacuum piston assembly	
170-857S	Thermostatic coil housing and rod assembly	
181-465	Fast idle cam (6491) (Use with 115-540)	
181-466	Fast idle cam (6492) (Use with 115-540)	
181-477	Fast idle cam (6491) (Use with 115-560)	
181-478	Fast idle cam (6492) (Use with 115-560)	
186-149	Fuel bowl baffle	
202-473S	Choke diaphragm and bracket assembly (6492)	
202-497S	Choke diaphragm and bracket assembly (6491)	

*Parts are available in Zip Kit only.

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

1974 "6"

DODGE TRUCK

BBS DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOS. 7044S – 7045S

MODEL		ENGINE DISPL.	C.F.M.	ORIGINAL CARB. NO.	ZIP KIT NO.
D2-3, CB-3, W2-3, P2, B-3 Van	M/T	225	163	7044S	902-300A
D2-3, CB-3, W2-3, P2, B-3 Van	A/T	225	163	7045S	902-300A

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THRO. BORE	FLOAT SETTING	PUMP	FAST IDLE LINKAGE	UNLOADER	CHOKE PULL-OFF	FAST IDLE RPM
7044S	1-11/16	1/4	5/16	5/64	3/16	7/64	1800
7045S	1-11/16	1/4	5/16	5/64	3/16	7/64	2000

MOTOR TUNE-UP — BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER, NEEDLE & SEAT TO RESTORE TOP PERFORMANCE. THESE PARTS ARE AVAILABLE IN CARTER ZIP KIT LISTED ABOVE.

INSTALL NEW CHOKE PULL OFF AND/OR CHOKE ASSEMBLY AT EVERY TUNEUP.

Carter Carburetor Division acf

Printed in U.S.A.

St. Louis, Missouri 63107 U.S.A.

Form 5614

CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFIC SETTINGS

FLOAT LEVEL: Clearance as specified between top of each float ridge (at center of float) and top surface of body casting. To adjust, bend lip of float arm.

PUMP AND BOWL VENT (NON-E.C.S.): With throttle connector rod in lower hold of throttle lever and plunger pin spring, in bottom hole, and groove of plunger rod (throttle valve set at curb idle). Adjust connector rod to give specified clearance between pump plunger washer and bushing. NOTE: Change plunger pin spring in accord with pump stroke.

PUMP (E.C.S.): With throttle connector rod in lower hole of throttle lever and throttle valve set at curb idle, adjust connector rod to give specified dimension between top of pump plunger shaft and shoulder of air horn.

FAST IDLE LINKAGE: With fast idle screw on second step and against shoulder of first step of cam, adjust choke connector rod to give specified clearance between top edge of choke valve and inner wall of air horn.

FAST IDLE ON CAR: With fast idle screw on second step and against shoulder of first step of cam, adjust screw to specified R.P.M.

UNLOADER: Specified dimension between top edge of choke valve and inner wall of air horn with throttle valve wide open. To adjust, bend unloader arm on throttle lever.

CHOKE PULL-OFF: With vacuum diaphragm plate (not stem) bottomed, close choke valve as far as possible without forcing. Adjust connector rod to give specific clearance between top edge of choke valve and inner wall of air horn. Remove connector rod to adjust to prevent damage to rod and diaphragm.

CURB IDLE SPEED SOLENOID: With solenoid wire disconnected and plunger fully depressed the distance from the solenoid bracket to the end of the plunger should be 7/8". To adjust loosen lock nut and turn solenoid, then tighten lock nut. With solenoid activated adjust screw to obtain R.P.M. as indicated on decal in engine compartment.

PARTS LIST

PART NO.	PART NAME	
*1A-315	Flange gasket	
2-307	Throttle valve	
3-1924S	Throttle shaft and lever assembly	
7-199	Choke valve	
11B-35	Rivet plug	
11B-79	Rivet plug	(6)
11B-108	Pump jet rivet plug	
11B-220	High speed passage rivet plug	
11B-303	Rivet plug	
14-920S	Choke lever and shaft assembly	
*20-146	Step-up piston gasket	
*20-203	Needle seat gasket	
21-222S	Float assembly	
24-23	Float pin	
*25-1020S	Needle and seat assembly (flared tip)	
30A-197	Idle mixture screw	
48-194	Pump jet	
51-96	Throttle shaft collar	
53A-510	Pump arm	
61-58	Idle, fast idle and solenoid screw spring	
61-761	Pump spring	
61-873	Idle mixture screw spring	
61-967	Step-up piston spring	
61-1011	Throttle return spring	
63-169	Float pin retainer	
63-395	Pump spring retainer	
*64-403S	Pump plunger assembly	
75-1796	Step-up rod (.032" x .027")	
*96-40	Idle mixture screw limiter cap	
101-296	Idle speed screw	
101-307S	Bowl cover screw assembly	(2)
101-318	Pump arm screw	
101-359S	Air horn screw assembly	(2)
101-374	Step-up piston plate guide screw	
101-473	Fast idle cam screw	
101-537	Choke diaphragm screw	(2)
101-544S	Solenoid bracket screw assembly	(2)
101-596	Choke valve screw	(2)
101-614	Fast idle speed screw	
101-633	Throttle valve screw	(2)
101-675	Solenoid speed screw	
105A-51	Solenoid nut	
115-370	Choke connector rod	
115-398	Choke diaphragm connector rod	
115-559	Throttle connector rod	
*116-13	Pump intake and discharge check ball	(3)
120-868S	Main metering jet assembly std.	
*121-656	Body flange gasket	
*121-697	Body gasket	
123-74S	Idle orifice tube assembly	
145-285	Main vent tube	
145-294	Choke diaphragm hose	
*150A-10	Throttle connector rod pin spring	
*150A-21	Choke diaphragm connector rod pin spring	
160-302S	Step-up piston and plate assembly	
170-1244	Thermostatic coil assembly	
180-238	Solenoid bracket	
181-350	Fast idle cam	
202-336S	Choke diaphragm and bracket assembly	
213-53S	Idle solenoid assembly	

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

*Parts are available in Zip-Kits only.

1974 "V8"
BARRACUDA B - DART L- DODGE W
CHALLENGER J - PLYMOUTH R
VALIANT V

BBD DUAL DOWN-DRAFT CLIMATIC CONTROL CARBURETOR NOS. 6464S – 6465S – 6466S – 6467S – 8009S – 8010S – 8018S – 8028S

MODEL		ENGINE DISPL.	C.F.M.	ORIGINAL CARB NO.	ZIP KIT NO
B, J, L, V, W, R (Exc. Road Runner)	M/T	318	280	6464S	902-307
B, J, L, V, R, W	A/T	318	280	6465S	902-307
B, J, L, V, R, W	A/T	318	280	8028S	902-307
V, L (Calif.)	M/T	318	280	6466S	902-307
B, J, L, R, V, W (Calif.) (Early)	A/T	318	280	6467S	902-307
B, J, L, R, V, W (Calif.) (Late)	A/T	318	280	8018S	902-307
V, L (Calif.)	M/T	318	280	8009S	902-307
Roadrunner	M/T	318	280	8010S	902-307

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

(SEE BACK PAGE FOR PROCEDURE)

CARB. NO.	THRO. BORE	FLOAT	PUMP	FAST IDLE CAM LINKAGE	VACUUM KICK	UNLOADER
6464S	1-7/16	1/4"	1/2"	3/32"	9/64"	9/32
6465S	1-7/16	1/4"	1/2"	3/32"	7/64"	9/32
6466S	1-7/16	1/4"	1/2"	3/32"	9/64"	9/32
6467S	1-7/16	1/4"	1/2"	3/32"	7/64"	9/32
8018S	1-7/16	1/4"	1/2"	3/32"	7/64"	9/32
8009S	1-7/16	1/4"	1/2"	3/32"	9/64"	9/32
8010S	1-7/16	1/4"	1/2"	3/32"	9/64"	9/32
8028S	1-7/16	1/4"	1/2"	3/32"	7/64"	9/32

MOTOR TUNE-UP — BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER, NEEDLE & SEAT TO RESTORE TOP PERFORMANCE. THESE PARTS ARE AVAILABLE IN CARTER ZIP KIT LISTED ABOVE.

INSTALL NEW CHOKE ASSEMBLY AT EVERY TUNE-UP.

Carter Carburetor Division

Printed in U.S.A. St. Louis, Missouri 63132 U.S.A.

CARBURETOR ADJUSTMENTS

FLOAT LEVEL: Hold float lip against seated needle lightly. The dimension between top of float (at center) and top of bowl should be as specified. To adjust bend lip of float.

PUMP: Turn curb idle screw two (2) full turns clockwise from the seated position. The dimension from the top of the pump shaft to the top of bowl cover should be as specified. To adjust, loosen pump arm lock screw and revolve pump arm. Tighten screw.

METERING ROD: Loosen metering rod arm screw, press downward on piston plate until metering rods bottom. With throttle valve seated revolve metering rod arm until lip contacts piston plate, then tighten clamp screw.

FAST IDLE LINKAGE: With fast idle screw on the second highest step of cam, the dimension between the top edge of choke valve and wall of air horn should be as specified. To adjust, bend connector rod.

CHOKE PULLOFF: By using an outside vacuum source fully depress diaphragm and close choke valve as far as possible without forcing. The dimension between top edge of choke valve and wall of air horn should be as specified. To adjust, open or close the "U" bend of connector link.

UNLOADER: With throttle valves wide open close choke valve as far as possible without forcing. The dimension between top edge of choke valve and wall of air horn should be as specified. To adjust, bend tang on throttle lever.

DASHPOT: With throttle held at 2500 R.P.M., adjust dashpot so that stem just contacts lever. Tighten lock nut.

PARTS LIST

PART NO.	PART NAME	
1A-316	Flange gasket	
2-303	Throttle valve (6464, 65, 8010-28-1) (6466, 67, 8009-18-2)	
2-317	Throttle valve (6464, 65, 8028)	
3-1882S	Throttle shaft & lever assy. (6465, 67, 8018, 28)	
3-1883S	Throttle shaft and lever assy. (6464, 66, 8009, 10) (use 3-1920S)	
3-1920S	Throttle shaft & lever assy. (6464, 66, 8009, 10)	
7-172	Choke valve (all exc. 8018)	
7-329	Choke valve (8028)	
7-338	Choke valve (8018)	
14-992	Choke lever	
14-993S	Choke lever and shaft assy.	
20-203	Needle seat gasket	
21-235S	Float assy.	
24-23	Float pin	
25-1003S	Needle and seat assy. (flared tip)	
30A-198	Idle mixture screw	(2)
51-96	Throttle shaft collar	
61-58	Idle and fast idle speed screw spring	(2)
61-205	Step-up piston spring	
61-413	Pump spring	
61-873	Idle mixture screw spring	(2)
61-1024	Throttle return spring	
63-238	Float pin retainer	
63-336	Choke connector rod retainer	(2)
64-435S	Pump plunger and rod assy.	
75-2021	Metering rod (6464, 65) (use 75-2062)	
75-2022	Metering rod (.048") (6466, 67) (8009) (use 75-2074)	
75-2062	Metering rod (.049") (6464, 65, 8010) (use 75-2075)	
75-2074	Metering rod (.070" x .049") (6466, 67, 8009)	(2)
75-2075	Metering rod (.069" x .049") (6464, 65, 8010, 18, 28)	(2)
96-40	Idle mixture screw limiter cap	(2)
101-65	Dust cover screw	(3)
101-296	Fast idle speed screw	
101-307S	Air horn screw assy. (6464, 66, 8009, 10-2) (6465, 67, 8018-28-4)	
101-362S	Air horn screw assy. (6464, 66, 8009, 10)	(2)
101-419	Throttle valve screw	(4)
101-428	Choke diaphragm bracket screw	(2)
101-544S	Body screw assy.	(2)
101-563	Idle speed screw	
101-565	Fast idle cam screw	
101-569	Venturi cluster screw	(2)
101-593	Venturi cluster screw (6464, 65, 67) (use 101-569)	(2)
101-596	Choke valve screw	(2)
101-634	Choke lever screw	
101-680S	Body flange screw assy.	(2)
101-704	Venturi cluster screw (6466) (use 101-569)	(2)
101-707	Pump and metering rod arm screw	(2)
103-14	Lead shot	
103-15	Lead shot	(2)
103-20	Lead shot	(2)
105A-60	Dashpot lock nut (6464, 66, 8009, 10)	
111-118	Metering rod arm	
111-120	Pump arm	
111-125U	Unitized package (consists of 111-118, 111-120, 117-217, 101-707-2, 136-326)	
113-214	Pump countershaft	
115-538	Choke diaphragm rod	
115-540	Choke connector rod (6464, 65, 66, 67, 8009) (use with 181-465 or 181-466)	
115-546	Throttle connector rod	
115-560	Choke connector rod (use with 181-477 or 181-478)	
116-13	Pump discharge check ball	
116-18	Pump intake check ball	
117-217	Pump link	
118-330S	Venturi cover assy.	
118-331	Dust cover	
120-389	Main metering jet (.089")	(2)
121-733	Body flange gasket	
121-752	Venturi cover gasket	
121-753	Venturi housing gasket	
121-759	Dust cover gasket	
121-760	Body gasket	
121-801	Venturi cover gasket	
136-326	Pump and metering rod arm washer	
145-303	Choke diaphragm hose (all exc. 8028)	
160-337S	Vacuum piston assy.	
170-796S	Thermostatic coil & housing assy. (6464, 66, 8009, 8010) (use 170-982S)	
170-975S	Thermostatic coil & housing assy. (6465, 67, 8018, 28)	
170-982S	Thermostatic coil & housing assy. (all exc. 6465, 67, 8018, 28)	
180-144	Dashpot bracket (6464, 66, 8009, 10)	
181-465	Fast idle cam (6464, 66, 8009) (use with 115-540)	
181-466	Fast idle cam (6465, 67) (use with 115-540)	
181-477	Fast idle cam (6464, 66, 8009, 10) (use with 115-560)	
181-478	Fast idle cam (6465, 67, 8018, 28) (use with 115-560)	
184-118	Tube cap (8028)	
186-149	Fuel bowl baffle	
202-462S	Dashpot assy. (6464, 66, 8009, 10)	
202-473S	Choke diaphragm and bracket assy. (6465, 66, 67, 8018, 28)	
202-497S	Choke diaphragm and bracket assy. (6464, 8009, 10)	

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

1974 "V8"

BARRACUDA B - DART L- DODGE W CHALLENGER J - PLYMOUTH R VALIANT V

BBD DUAL DOWN-DRAFT CLIMATIC CONTROL CARBURETOR NOS. 6464S – 6465S – 6466S – 6467S – 8009S – 8010S – 8018S – 8028S

MODEL		ENGINE DISPL.	C.F.M.	ORIGINAL CARB NO.	ZIP KIT NO
B, J, L, V, W, R (Exc. Road Runner)	M/T	318	280	6464S	902-307
B, J, L, V, R, W	A/T	318	280	6465S	902-307
B, J, L, V, R, W	A/T	318	280	8028S	902-307
V, L (Calif.)	M/T	318	280	6466S	902-307
B, J, L, R, V, W (Calif.) (Early)	A/T	318	280	6467S	902-307
B, J, L, R, V, W (Calif.) (Late)	A/T	318	280	8018S	902-307
V, L (Calif.)	M/T	318	280	8009S	902-307
Roadrunner	M/T	318	280	8010S	902-307

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

(SEE BACK PAGE FOR PROCEDURE)

CARB. NO.	THRO. BORE	FLOAT	PUMP	FAST IDLE CAM LINKAGE	VACUUM KICK	UNLOADER
6464S	1-7/16	1/4"	1/2"	3/32"	9/64"	9/32
6465S	1-7/16	1/4"	1/2"	3/32"	7/64"	9/32
6466S	1-7/16	1/4"	1/2"	3/32"	9/64"	9/32
6467S	1-7/16	1/4"	1/2"	3/32"	7/64"	9/32
8018S	1-7/16	1/4"	1/2"	3/32"	7/64"	9/32
8009S	1-7/16	1/4"	1/2"	3/32"	9/64"	9/32
8010S	1-7/16	1/4"	1/2"	3/32"	9/64"	9/32
8028S	1-7/16	1/4"	1/2"	3/32"	7/64"	9/32

MOTOR TUNE-UP — BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER, NEEDLE & SEAT TO RESTORE TOP PERFORMANCE. THESE PARTS ARE AVAILABLE IN CARTER ZIP KIT LISTED ABOVE.

INSTALL NEW CHOKE ASSEMBLY AT EVERY TUNE-UP.

Carter Carburetor Division

Printed in U.S.A.

St. Louis, Missouri 63132 U.S.A.

CARBURETOR ADJUSTMENTS

FLOAT LEVEL: Hold float lip against seated needle lightly. The dimension between top of float (at center) and top of bowl should be as specified. To adjust bend lip of float.

PUMP: Turn curb idle screw two (2) full turns clockwise from the seated position. The dimension from the top of the pump shaft to the top of bowl cover should be as specified. To adjust, loosen pump arm lock screw and revolve pump arm. Tighten screw.

METERING ROD: Loosen metering rod arm screw, press downward on piston plate until metering rods bottom. With throttle valve seated revolve metering rod arm until lip contacts piston plate, then tighten clamp screw.

FAST IDLE LINKAGE: With fast idle screw on the second highest step of cam, the dimension between the top edge of choke valve and wall of air horn should be as specified. To adjust, bend connector rod.

CHOKE PULLOFF: By using an outside vacuum source fully depress diaphragm and close choke valve as far as possible without forcing. The dimension between top edge of choke valve and wall of air horn should be as specified. To adjust, open or close the "U" bend of connector link.

UNLOADER: With throttle valves wide open close choke valve as far as possible without forcing. The dimension between top edge of choke valve and wall of air horn should be as specified. To adjust, bend tang on throttle lever.

DASHPOT: With throttle held at 2500 R.P.M., adjust dashpot so that stem just contacts lever. Tighten lock nut.

PARTS LIST

PART NO.	PART NAME	
1A-316	Flange gasket	
2-303	Throttle valve (6464, 65, 8010-28-1) (6466, 67, 8009-18-2)	
2-317	Throttle valve (6464, 65, 8028)	
3-1882S	Throttle shaft & lever assy. (6465, 67, 8018, 28)	
3-1883S	Throttle shaft and lever assy. (6464, 66, 8009, 10) (use 3-1920S)	
3-1920S	Throttle shaft & lever assy. (6464, 66, 8009, 10)	
7-172	Choke valve (all exc. 8018)	
7-329	Choke valve (8028)	
7-338	Choke valve (8018)	
14-992	Choke lever	
14-993S	Choke lever and shaft assy.	
20-203	Needle seat gasket	
21-235S	Float assy.	
24-23	Float pin	
25-1003S	Needle and seat assy. (flared tip)	
30A-198	Idle mixture screw	(2)
51-96	Throttle shaft collar	
61-58	Idle and fast idle speed screw spring	(2)
61-205	Step-up piston spring	
61-413	Pump spring	
61-873	Idle mixture screw spring	(2)
61-1024	Throttle return spring	
63-238	Float pin retainer	
63-336	Choke connector rod retainer	(2)
64-435S	Pump plunger and rod assy.	
75-2021	Metering rod (6464, 65) (use 75-2062)	
75-2022	Metering rod (.048") (6466, 67) (8009) (use 75-2074)	
75-2062	Metering rod (.049") (6464, 65, 8010) (use 75-2075)	
75-2074	Metering rod (.070" x .049") (6466, 67, 8009)	(2)
75-2075	Metering rod (.069" x .049") (6464, 65, 8010, 18, 28)	(2)
96-40	Idle mixture screw limiter cap	(2)
101-65	Dust cover screw	(3)
101-296	Fast idle speed screw	
101-307S	Air horn screw assy. (6464, 66, 8009, 10-2) (6465, 67, 8018-28-4)	
101-362S	Air horn screw assy. (6464, 66, 8009, 10)	(2)
101-419	Throttle valve screw	(4)
101-428	Choke diaphragm bracket screw	(2)
101-544S	Body screw assy.	(2)
101-563	Idle speed screw	
101-565	Fast idle cam screw	
101-569	Venturi cluster screw	(2)
101-593	Venturi cluster screw (6464, 65, 67) (use 101-569)	(2)
101-596	Choke valve screw	(2)
101-634	Choke lever screw	
101-680S	Body flange screw assy.	(2)
101-704	Venturi cluster screw (6466) (use 101-569)	(2)
101-707	Pump and metering rod arm screw	(2)
103-14	Lead shot	
103-15	Lead shot	(2)
103-20	Lead shot	(2)
105A-60	Dashpot lock nut (6464, 66, 8009, 10)	
111-118	Metering rod arm	
111-120	Pump arm	
111-125U	Unitized package (consists of 111-118, 111-120, 117-217, 101-707-2, 136-326)	
113-214	Pump countershaft	
115-538	Choke diaphragm rod	
115-540	Choke connector rod (6464, 65, 66, 67, 8009) (use with 181-465 or 181-466)	
115-546	Throttle connector rod	
115-560	Choke connector rod (use with 181-477 or 181-478)	
116-13	Pump discharge check ball	
116-18	Pump intake check ball	
117-217	Pump link	
118-330S	Venturi cover assy.	
118-331	Dust cover	
120-389	Main metering jet (.089")	(2)
121-733	Body flange gasket	
121-752	Venturi cover gasket	
121-753	Venturi housing gasket	
121-759	Dust cover gasket	
121-760	Body gasket	
121-801	Venturi cover gasket	
136-326	Pump and metering rod arm washer	
145-303	Choke diaphragm hose (all exc. 8028)	
160-337S	Vacuum piston assy.	
170-796S	Thermostatic coil & housing assy. (6464, 66, 8009, 8010) (use 170-982S)	
170-975S	Thermostatic coil & housing assy. (6465, 67, 8018, 28)	
170-982S	Thermostatic coil & housing assy. (all exc. 6465, 67, 8018, 28)	
180-144	Dashpot bracket (6464, 66, 8009, 10)	
181-465	Fast idle cam (6464, 66, 8009) (use with 115-540)	
181-466	Fast idle cam (6465, 67) (use with 115-540)	
181-477	Fast idle cam (6464, 66, 8009, 10) (use with 115-560)	
181-478	Fast idle cam (6465, 67, 8018, 28) (use with 115-560)	
184-118	Tube cap (8028)	
186-149	Fuel bowl baffle	
202-462S	Dashpot assy. (6464, 66, 8009, 10)	
202-473S	Choke diaphragm and bracket assy. (6465, 66, 67, 8018, 28)	
202-497S	Choke diaphragm and bracket assy. (6464, 8009, 10)	

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

CARTER®

FORM 5586A
OCTOBER, 1972
REVISED SEPT., 1973

1973 "V8"

DODGE D,W - PLYMOUTH P,R

TQ FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL **CARBURETORS Nos. 6320S-SA – 6321S-SA – 6341S-SA – 6342S-SA**

MODEL		ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
D, P, R, W	M/T	400	6320S-SA	6320S-SA	902-299A
D, P, R, W	A/T	400	6321S-SA	6321S-SA	902-299A
D, P, R, W (Calif.)	M/T	400	6341S-SA	6341S-SA	902-299A
D, P, R, W (Calif.)	A/T	400	6342S-SA	6342S-SA	902-299A

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	C.F.M.	FLOAT LEVEL	PUMP	VACUUM KICK	FAST IDLE CAM & LINKAGE	FAST IDLE R.P.M.	UN-LOADER	BOWL VAPOR VENT
6320S-SA	1-1/2 (P) 2-1/4 (S)	850	1" *	9/16	5/32	7/64	1700	3/16	13/16
6321S-SA	1-1/2 (P) 2-1/4 (S)	850	1" *	1/2	5/32	7/64	1800	3/16	13/16
6341S-SA	1-1/2 (P) 2-1/4 (S)	850	1" *	9/16	5/32	7/64	1700	3/16	13/16
6342S-SA	1-1/2 (P) 2-1/4 (S)	850	1" *	1/2	5/32	7/64	1800	3/16	13/16

*Cellular float set 7/8"

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug Gap .035"	Idle Mixture Screw Limiter Cap Type	Idle R.P.M. See Decal in Engine Compartment

Carter Carburetor Division

St. Louis, Missouri 63107 U.S.A.

CARBURETOR ADJUSTMENTS

FLOAT LEVEL: With bowl cover inverted, gasket installed and floats resting on seated needle, the dimension of each float from bowl cover gasket to bottom side of float at outer end should be as specified. To adjust, bend lever. NOTE: *Never allow lip of float to be pressed against needle when adjusting.*

SECONDARY THROTTLE LINK: Slowly open the primary throttle valves 11/32 inch from the throttle bore walls. At this point, the secondary throttle valves should just begin to open. To adjust bend the throttle link.

SECONDARY THROTTLE LEVER PICK-UP: Apply light pressure downward on the fast idle screw to move choke control lever to the wide open choke position. The clearance between pick up lever and top of secondary lever should be .075". To adjust bend rear tang on throttle lever.

PUMP: STEP 1 (ALL) – With throttle valves tightly closed install throttle connector rod in center hole of pump arm. The dimension from top of bowl cover to top of plunger shaft should be as specified. To adjust, bend connector rod. **STEP 2 (MANUAL TRANS. ONLY)** – Open throttle slowly until the secondary throttle shaft begins to move. Hold in this position. Measure again from top of plunger shaft, it should be 11/32 inch. To adjust bend pick up arm on the primary throttle shaft dog.

AIR VALVE OPENING: With air valve wide open there should be 31/64" between air horn wall and inner edge of air valve. To adjust bend corner of air valve with pliers.

AIR VALVE SPRING: 1. Loosen lock plug. Rotate adjustment plug (inner) clockwise to allow air valve to position itself to wide open. 2. Check to see that air valve and shaft are operating freely. 3. To adjust, rotate adjustment plug (inner) counterclockwise until air valve just contacts the stop. Then turn 1 additional turn. While holding the adjustment plug in this position, tighten lock plug.

DIAPHRAGM CONNECTOR ROD: With diaphragm stem fully depressed and air valve closed, there should be .040 inch between air valve and stop. To adjust bend diaphragm connector rod.

VACUUM KICK: Bottom the vacuum diaphragm by using an outside source of vacuum, or by pressing downward on end of diaphragm stem. Apply light pressure on choke lever to close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend tang on choke lever.

FAST IDLE CAM AND LINKAGE: With fast idle screw on second highest step of fast idle cam, close choke valve as far as possible. The dimension between the lower edge of choke valve and inner wall of air horn should be as specified. To adjust bend connector rod.

UNLOADER: With throttle valves wide open, close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend front tang on fast idle control lever.

CURB IDLE SPEED SOLENOID ADJUSTMENT: With engine running (with solenoid energized if equipped), adjust idle mixture screws and fast curb idle adjusting screw (against solenoid plunger) to secure specified engine rpm (refer to decal in engine compartment). After specified rpm has been obtained and with engine still running (with solenoid energized) adjust slow curb idle speed screw until end of screw just touches stop. Now, back off one full turn to obtain slow curb idle speed setting.

BOWL VAPOR VENT (ON CAR): With throttle valves set at curb idle, remove plug from air horn and insert a narrow ruler in hole. Rest ruler lightly on top of valve. The dimension from top of valve to top of casting should be as specified. To adjust bend operating lever.

FAST IDLE ON CAR: With fast idle screw on second step and against shoulder of first step of cam. Adjust fast idle screw to specified R.P.M.

PARTS LIST

Part No.	PART NAME	
1A-368	Flange gasket	
7-326S	Choke valve assy. (S Carbs) (Use 7-337U)	
7-328	Air valve	
7-334S	Choke valve assembly (SA Carbs)	
7-337U	Unitized package (S Carbs) (Consists of 7-336S, 13-326S, 101-596-2)	
11B-294	Bowl vent plug	
11B-485	Passage plug	
11B-487	Air valve adjustment plug	
11B-488	Air valve lock plug	
13-314	Choke shaft (S Carbs) (Use 7-337U)	
13-321S	Air valve shaft & lever assy. (S Carbs)	
13-326	Choke shaft (SA Carbs)	
13-327S	Air valve shaft and lever assembly (SA Carbs)	
14-984	Choke lever	
14-994	Choke countershaft lever	
15-57	Fuel inlet fitting	
17-70	Pump discharge check needle	
20-239	Needle seat gasket	(2)
20-243	Fuel inlet fitting gasket	
20-262	Hot idle valve gasket (6321, 6342) (Disc.) (Use 11B-485)	
21-249S	Float assy. (Use 21-253U)	(2)
21-253U	Unitized package (consists of 2-21-252S)	
24-15	Float pin and metering rod arm pin	(3)
25-1086S	Needle and seat assy.	(2)
30A-212	Idle mixture screw	
48-365S	Pump jet and housing assy. (6321,A, 42,A)	
48-374S	Pump jet and housing assy. (6320,A, 41,A)	
51-88	Choke shaft collar	
53A-523	Bowl vent arm	
53A-526S	Bowl vent operating lever assy.	
53A-539S	Solenoid operating lever assy.	
53A-542S	Fast idle operating arm assy.	
61-84	Fast idle speed screw spring	
61-761	Pump spring (upper) (6320,A, 41,A)	
61-886	Air valve spring	
61-873	Idle mixture screw & solenoid speed screw spring	(3)
61-912	Bowl vent arm spring	
61-915	Vacuum piston spring (6321A, 42A)	
61-948	Choke lever spring	
61-956	Idle speed screw spring	
61-960	Vacuum piston spring (6320,A, 41,A)	
61-966	Pump spring (upper) (6321,A, 42,A)	
63-336	Connector rod retainer	(5)
63-426S	Intake check retainer assembly (use 64-436U)	
64-432S	Pump plunger assy. (Use 64-436U)	
64-436U	Unitized package (consists of 63-426S, 64-432S)	
65-68	Step-up piston cover plate	
65-71	Step-up rod cover plate (L-H)	
65-72	Step-up cover plate (R-H)	
75-1965	Metering rod (.069"x.061"x.045") (6320,A,41,A)	
75-1966	Metering rod (.067"x.052"x.045") (6321,A,42,A)	

Part No.	PART NAME	
96-40	Idle mixture screw limiter cap	(2)
101-277S	Metering rod cam screw	
101-387	Idle speed screw	
101-421	Pump arm screw	
101-505	Diaphragm & solenoid bracket screw	(2)
101-596	Air, choke valve & lever screw	(5)
101-616	Bowl cover screw	(10)
101-617	Cover plate screw	(3)
101-618	Pump jet housing screw	
101-629	Solenoid operating lever screw	
101-634	Choke countershaft lever screw	
101-635	Bowl vent and solenoid operating arm screw	
101-637	Fast idle speed screw	
101-646	Primary throttle valve screw (use 101-663)	(4)
101-663	Secondary throttle valve screw	(8)
101-667	Fast idle operating lever screw	
105A-51	Solenoid lock nut	
111-110	Metering rod arm	
111-115	Pump arm (S Carbs)	
111-122	Pump arm (SA Carbs)	
113-208S	Choke countershaft & lever assy.	
114-194	Choke lever	
115-492	Throttle operating rod	
115-500	Bowl vent connector rod	
115-507	Fast idle connector rod	
115-521	Choke connector rod	
115-522	Choke diaphragm connector rod	
115-528	Throttle connector rod (S Carbs)	
115-552	Throttle connector rod (SA Carbs)	
117-190	Pump connector link	
120-4098	Primary metering jet	(2)
120-5137S	Secondary metering jet	(2)
121-662	Pump jet housing gasket	
121-688	Air horn gasket	
121-706	Body flange gasket	
136-300	Throttle shaft spring washer	
136-308	Choke diaphragm connector rod washer	
145-304	Choke diaphragm hose	
145-406	Pump passage tube	
150A-14	Pin spring	
160-317S	Step-up piston and link assy.	
163-90	O ring (Use 163-131)	(2)
163-131	Quad X ring	
164-30	Grommet seal	
169-151S	Hot idle valve assy. (6321, 6342) (Disc.) (Use 11B-485)	
170-248S	Thermostatic coil and housing assy.	
170BT-248S	Thermostatic coil housing and rod assy. (use 170-248S)	
180-225	Solenoid bracket	
181-434	Metering rod cam	
186-158	Secondary baffle plate	
202-407S	Choke diaphragm & bracket assy.	
213-61S	Idle solenoid assy.	

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

1973 "V8"
CHRYSLER C,Y - DODGE D,W
PLYMOUTH P,R

TQ FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL **CARBURETORS NOs.**
6322S-SA – 6324S-SA – 6410S-SA – 6411S-SA

MODEL		ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
P, D, C, Y (A-120)	A/T	440	6322S-SA	6322S-SA	902-299A
R, W, P, D (A-134)	A/T	440	6324S-SA	6324S-SA	902-299A
P, D, C, Y (Calif) (A-120)	A/T	440	6410S-SA	6410S-SA	902-299A
R.W.P.D. (CALIF.) (A-134)	A/T	440	6411S-SA	6411S-SA	902-299A

CARBURETOR SPECIFICATIONS
AND
ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	C.F.M.	FLOAT LEVEL	PUMP	VACUUM KICK	FAST IDLE CAM & LINKAGE	FAST IDLE R.P.M.	UN-LOADER	BOWL VAPOR VENT
6322S-SA	1-1/2 (P) 2-1/4 (S)	850	1"*	1/2	5/32	7/64	1700	3/16	13/16
6324S-SA	1-1/2 (P) 2-1/4 (S)	850	1"*	1/2	5/32	7/64	1700	3/16	13/16
6410S-SA	1-1/2 (P) 2-1/4 (S)	850	1"*	1/2	5/32	7/64	1700	3/16	13/16
6411S-SA	1-1/2 (P) 2-1/4 (S)	850	1"*	1/2	5/32	7/64	1700	3/16	13/16

* Cellular float – set 7/8"

MOTOR TUNE-UP – BE ACCURATE!

Idle Mixture Screw Limiter Cap Type	Idle R.P.M. See Decal in Engine Compartment

Carter Carburetor Division
St. Louis, Missouri 63107 U.S.A.

Printed in U.S.A.

Form 5588A

CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFIC SETTINGS

FLOAT LEVEL: With bowl cover inverted, gasket installed and floats resting on seated needle, the dimension of each float from bowl cover gasket to bottom side of float at outer end should be as specified. To adjust, bend lever. NOTE: *Never allow lip of float to be pressed against needle when adjusting.*

SECONDARY THROTTLE LINK: Slowly open the primary throttle valves 11/32 inch from the throttle bore walls. At this point, the secondary throttle valves should just begin to open. To adjust bend the throttle link.

SECONDARY THROTTLE LEVER PICK-UP: Apply light pressure downward on the fast idle screw to move choke control lever to the wide open choke position. The clearance between pick up lever and top of secondary lever should be .075". To adjust bend rear tang on throttle lever.

PUMP: With throttle valves tightly closed install throttle connector rod in center hole of pump arm. The dimension from top of bowl cover to top of plunger shaft should be as specified. To adjust, bend connector rod.

AIR VALVE OPENING: With air valve wide open there should be 31/64" between air horn wall and inner edge of air valve. To adjust bend corner cf air valve with pliers.

AIR VALVE SPRING: 1. Loosen lock plug. Rotate adjustment plug (inner) clockwise to allow air valve to position itself to wide open. 2. Check to see that air valve and shaft are operating freely. 3. To adjust, rotate adjustment plug (inner) counterclockwise until air valve just contacts the stop. Then turn 1 additional turn. While holding the adjustment plug in this position, tighten lock plug.

DIAPHRAGM CONNECTOR ROD: With diaphragm stem fully depressed and air valve closed, there should be .040 inch between air valve and stop. To adjust bend diaphragm connector rod.

VACUUM KICK: Bottom the vacuum diaphragm by using an outside source of vacuum, or by pressing downward on end of diaphragm stem. Apply light pressure on choke lever to close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend tang on choke lever.

FAST IDLE CAM AND LINKAGE: With fast idle screw on second highest step of fast idle cam, close choke valve as far as possible. The dimension between the lower edge of choke valve and inner wall of air horn should be as specified. To adjust bend connector rod.

UNLOADER: With throttle valves wide open, close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend front tang on fast idle control lever.

CURB IDLE SPEED SOLENOID ADJUSTMENT: With engine running (with solenoid energized if equipped), adjust idle mixture screws and fast curb idle adjusting screw (against solenoid plunger) to secure specified engine rpm (refer to decal in engine compartment). After specified rpm has been obtained and with engine still running (with solenoid energized) adjust slow curb idle speed screw until end of screw just touches stop. Now, back off one full turn to obtain slow curb idle speed setting.

BOWL VAPOR VENT (ON CAR): With throttle valves set at curb idle, remove plug from air horn and insert a narrow ruler in hole. Rest ruler lightly on top of valve. The dimension from top of valve to top of casting should be as specified. To adjust bend operating lever.

FAST IDLE ON CAR: With fast idle screw on second step and against shoulder of first step of cam. Adjust fast idle screw to specified R.P.M.

PARTS LIST

Part No.	PART NAME	
1A-368	Flange gasket	
7-326S	Choke valve assy. (S Carbs) (Use 7-337U)	
7-328	Air valve	
7-334S	Choke valve assembly (SA Carbs)	
7-337U	Unitized package (S Carbs) (consists of 7-336S, 13-326S, 101-596-2)	
11B-294	Bowl vent plug	
11B-485	Passage plug	
11B-487	Air valve adjustment plug	
11B-488	Air valve lock plug	
13-314	Choke shaft (S Carbs) (Use 7-337U)	
13-321S	Air valve shaft & lever assy. (S Carbs)	
13-326	Choke shaft (SA Carbs)	
13-327S	Air valve shaft and lever assembly (SA Carbs)	
14-984	Choke lever	
14-994	Choke countershaft lever	
15-57	Fuel inlet fitting	
17-70	Pump discharge check needle	
20-239	Needle seat gasket	(2)
20-243	Fuel inlet fitting gasket	
20-262	Hot idle valve gasket (Disc.) (Use 11B-485)	
21-249S	Float assy. (Use 21-253U)	
21-253U	(Consists of 2-21-252S)	
24-15	Float pin & metering rod arm pin	(3)
25-1086S	Needle and seat assy	(2)
30A-212	Idle mixture screw	(2)
48-365S	Pump jet and housing assy.	
51-88	Choke shaft collar	
53A-523	Bowl vent arm	
53A-526S	Bowl vent operating lever assy.	
53A-527	Operating lever (6322, A, 6410, A)	
53A-539S	Solenoid operating lever assy (6324, A, 6411, A)	
53A-542S	Fast idle operating arm assy.	
61-84	Fast idle speed screw spring	
61-119	Choke lever spring	
61-761	Pump spring (upper) (6322, A, 6410, A)	
61-873	Idle mixture screw (2) & solenoid speed screw spring	(1)
61-886	Air valve spring	
61-890	Secondary throttle shaft spring	
61-912	Bowl vent arm spring	
61-915	Vacuum piston spring	
61-956	Idle speed screw spring	
61-966	Pump spring (upper) (6324, A, 6411, A)	
63-336	Connector rod retainer	(5)
63-426S	Intake check retainer assy. (Use 64-436U)	
64-432S	Pump plunger assy. (Use 64-436U)	
64-436U	Unitized package (consists of 63-426S, 64-432S)	
65-68	Step-up piston cover plate	
65-71	Step-up rod cover plate (L-H)	
65-72	Step-up rod cover plate (R-H)	
75-1966	Metering rod (.067"x.052"x.045")	(2)
96-40	Idle mixture screw limiter cap	(2)

Part No.	PART NAME	
101-277S	Metering rod cam screw assy.	
101-387	Idle speed screw	
101-421	Pump arm screw	
101-505	Choke diaphragm & solenoid bracket screw	(2)
101-596	Air, Choke valve & lever screw	(5)
101-616	Bowl cover screw	(10)
101-617	Cover plate screw	(3)
101-618	Pump jet housing screw	
101-629	Solenoid operating lever screw (6324, A, 6411, A)	
101-634	Choke countershaft lever screw	
101-635	Bowl vent operating arm screw	
101-637	Fast idle speed screw	
101-646	Primary throttle valve screw (Use 101-663)	(4)
101-663	Primary & Secondary throttle valve screw	(8)
101-667	Fast idle operating lever screw	
105A-51	Solenoid lock nut (6324, 6411) (6324, A, 6411, A)	
111-110	Metering rod arm	
111-115	Pump arm (S Carbs)	
111-122	Pump arm (SA Carbs)	
113-208S	Choke countershaft & lever assy.	
114-194	Choke lever	
115-492	Throttle operating rod	
115-500	Bowl vent connector rod	
115-507	Fast idle connector rod	
115-521	Choke connector rod	
115-522	Choke diaphragm connector rod	
115-528	Throttle connector rod (S Carbs)	
115-552	Throttle connector rod (SA Carbs)	
117-190	Pump connector link	
120-4098	Primary metering jet	(2)
120-5125S	Secondary metering jet assy.	(2)
121-662	Pump jet housing gasket	
121-688	Air horn gasket	
121-706	Body flange gasket	
136-300	Throttle shaft spring washer	
136-308	Choke diaphragm connector rod washer	
145-304	Choke diaphragm hose	
145-406	Pump passage tube	
150A-14	Pin spring	
160-317S	Step-up piston and link assy.	
163-90	O ring (Use 163-131)	(2)
163-131	Quad X ring	
164-30	Grommet seal	
169-151S	Hot idle valve assy. (Disc.) (Use 11B-485)	
170-248S	Thermostatic coil assy.	
170BT-248S	Thermostatic coil housing and rod assy. (Use 170-248S)	
180-225	Solenoid bracket (6324, A, 6411, A)	
181-434	Metering rod cam	
186-158	Secondary baffle plate	
202-407S	Choke diaphragm & bracket assy.	
213-61S	Idle solenoid assy. (6324, A, 6411, A)	

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

1973 "V8"

BARRACUDA B - DART L - DODGE D,W CHALLENGER J - PLYMOUTH P, R VALIANT V - DODGE TRUCK

BBD DUAL DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOS. 6316S-SA – 6317S-SA – 6343S-SA 6344S-SA – 6363S – 6364S

		ENGINE DISPL.	ORIGINAL CARB NO.	SERVICE CARB. NO.	ZIP KIT NO.
B, L, D, J, P, R, V, W, TRK. B1-2, B-3, D-1, W-1 (E.C.S.)	M/T	318-1	6316S-SA	6316S-SA	902-280A
B, L, D, J, P, R, V, W, TRK, B1-2, B-3, D-1, W-1 (E.C.S.)	A/T	318-1	6317S-SA	6317S-SA	902-280A
B, L, D, J, P, R, V, W, TRK. B1, 2, 3, D-1, W-1 (CALIF.) (E.C.S.)	M/T	318-1	6343S-SA	6343S-SA	902-280A
B, L, D, J, P, R, V, W, TRK. B1, 2, 3, D-1, W-1 (CALIF.) (E.C.S.)	A/T	318-1	6344S-SA	6344S-SA	902-280A
TRK. D2, 3, W2, 3, B-3 VAN (E.C.S) (CALIF.)	M/T	318-1	6363S	6363S	902-294
TRK. D2, 3, W2, 3, B-3 VAN (E.C.S.) (CALIF.)	A/T	318-1	6364S	6364S	902-294

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

(SEE BACK PAGE FOR PROCEDURE)

CARB. NO.	THRO. BORE	C.F.M.	FLOAT	PUMP & BOWL VAPOR VENT	FAST IDLE LINKAGE	FAST IDLE R. P. M.	UNLOADER	CHOKE DIAPH. LINKAGE
6316S-SA	1-7/16	260	1/4	15/64	3/32	1700	1/4	5/32
6317S-SA	1-7/16	260	1/4	15/64	3/32	1700	1/4	5/32
6343S-SA	1-7/16	260	1/4	15/64	3/32	1700	1/4	5/32
6344S-SA	1-7/16	260	1/4	15/64	3/32	1700	1/4	5/32
6363S	1-7/16	260	1/4	13/64	3/32	1700	1/4	5/32
6364S	1-7/16	260	1/4	13/64	3/32	1700	1/4	5/32

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug Gap	Breaker Point Setting	Ignition Timing	Idle Mixture Screw Limiter Cap Type	Idle R.P.M.
.035"	.014"–.019"	See Decal In Engine Compartment		See Decal In Engine Compartment

Carter Carburetor Division acf

PRINTED IN U.S.A.

St. Louis, Missouri 63107 U.S.A.

CARBURETOR ADJUSTMENTS

FLOAT LEVEL: Clearance as specified between top of each float ridge (at center of float) and top surface of body casting. To adjust bend lip on float arm.

PUMP AND BOWL VENT: With throttle connector rod in center hole of throttle lever, inner hole of pump arm and plunger retainer in center groove of plunger rod (throttle valves set at curb idle) adjust connector rod to give specific dimension between top of pump plunger shaft and shoulder of air horn.

FAST IDLE LINKAGE: With fast idle screw on second step and against shoulder of first step of cam, adjust fast idle connector rod to give specified dimension between top edge of choke valve and inner wall of air horn.

FAST IDLE ON CAR: With fast idle screw on second step and against shoulder of first step of cam, adjust screw to specified R.P.M.

UNLOADER: Specified dimension between top edge of choke valve and inner wall of air horn with throttle valves wide open. To adjust, bend unloader arm on throttle lever.

CHOKE DIAPHRAGM LINKAGE: With vacuum diaphragm plate (not step) bottomed, close choke as far as possible without forcing. Adjust connector rod to give specified clearance between top edge of choke valve and inner wall of air horn. Remove connector rod to adjust to prevent damage to rod and diaphragm.

DASH POT: With throttle held at 2000 R.P.M. adjust dashpot so that stem just contacts lever. Tighten lock nut.

PARTS LIST

PART NO.	PART NAME	
1A-316	Flange gasket (All exc. 6363, 64)	
1A-333	Flange gasket (6363,64)	
2-303	Throttle valve (all exc. 6317A - 2) (6317A - 1)	
2-317	Throttle valve (6317A)	
3-1694S	Throttle shaft & lever assembly (6316, A, 43, A)	
3-1848S	Throttle shaft & lever assembly (6317, A, 44, A, 63, 64)	
7-172	Choke valve	
14-847S	Choke lever & shaft assembly (S carbs.)	
14-850S	Choke lever assembly (S carbs.)	
14-992	Choke lever (SA carbs.)	
14-993S	Choke lever and shaft assembly (SA carbs.)	
20-146	Step-up piston gasket	
20-203	Needle seat gasket	
21-235S	Float assembly	
24-23	Float pin	
25-1003S	Needle & seat assy. (flared tip)	
30A-198	Idle mixture screw	(2)
53A-547	Pump arm	
61-58	Idle & fast idle speed screw spring	(2)
61-538	Step-up piston spring (6316, A, 17, A, 43, A)	
61-873	Idle mixture screw spring	(2)
61-940	Bowl vent spring	
61-942	Pump spring	
61-962	Step-up piston spring (6344,A)	
61-967	Step-up piston spring (6363, 64)	
63-238	Float pin retainer	
63-282	Pump plunger retainer	(2)
63-336	Choke connector rod retainer (S carbs.-3 SA Carbs. -1)	
64-413S	Pump plunger & rod assembly	
65-64	Bowl vent cover plate	
75-1641	Step-up rod (.028" x .025") (6317,A)	(2)
75-1645	Step-rod (.026" x .022") (6363, 64)	(2)
75-1727	Step-up rod (.029" x .025") (6317) (Use 75-1641)	(2)
75-1849	Step-up rod (.031" x .026") (6344, A)	(2)
75-1927	Step-up rod (.027" x.021") (636, 64) (Use 75-1645)	(2)
75-1928	Step-up rod (.030" x .026") (6316, A, 43, A)	(2)
96-40	Idle mixture screw limiter cap	(2)
101-296	Fast idle speed screw	
101-307S	Air horn screw assembly (6316, A, 43, A, -2) (6317, A, 44, A, -4)	
101-318	Pump arm screw	
101-362S	Air horn screw assembly (6316, A, 43, A)	(2)
101-374	Step-up piston plate screw	
101-419	Throttle valve screw	(4)
101-428	Choke diaphragm bracket screw	(2)
101-543S	Body flange screw assembly (S carbs.)	(2)
101-544S	Body screw assembly	(2)
101-558	Chocke valve screw	(2)
101-563	Idle speed screw	
101-565	Fast idle cam screw	
101-579	Venturi cluster screw (6344, A, 63, 64)	(2)
101-596	Choke valve screw (steel)	(2)

PART NO.	PART NAME	
101-615	Bowl vent cover plate screw	(3)
101-634	Choke lever screw (SA Carbs)	
101-680S	Body flange screw assy. (6363, 64, SA Carbs.)	(2)
101-687	Venturi cluster screw (6316, A, 17, A, 43, A)	(2)
103-14	Lead shot	
103-15	Lead shot	(2)
103-20	Lead shot	(2)
105A-60	Dashpot lock nut (6316, 43)	
108-94	Choke connector rod spacer (S Carbs.)	
115-399	Choke diaphragm rod (S carbs.)	
115-409	Choke connector rod (S Carbs)	
115-424	Throttle connector rod (S Carbs)	
115-537	Throttle connector rod (SA Carbs)	
115-538	Choke diaphragm rod (SA Carbs)	
115-539	Choke connector rod (SA Carbs)	
116-13	Pump discharge check ball	
116-18	Pump intake check ball	
118-275S	Venturi cover assy. (6363, 64)	
118-326S	Venturi cover assembly (All exc. 6363, 64)	
120-862S	Main metering jet assy. (.062") Std.) (6363, 64)	(2)
120-866S	Main metering jet (.066") (Std.) (All exc. 6363, 64)	(2)
121-285	Venturi housing gasket	
121-531	Body flange gasket (6363, 64)	
121-561	Venturi cover gasket	
121-659	Bowl vent cover gasket	
121-672	Body gasket	
121-733	Body flange gasket (All exc. 6363, 64)	
136-191	Pump plunger washer	
145-303	Choke diaphragm hose	
150A-10	Pin Spring (S carbs.)	
150A-21	Pin Spring (S carbs.)	
160-310S	Step-up piston & plate assembly (S carbs.)	
160-332S	Step-up piston & plate assembly (SA carbs.)	
169-144	Bowl vent valve	
170-266S	Thermostatic coil-housing assy. (All exc. 6363, 64)	
170-275S	Thermostatic coil-housing assy. (6363, 64)	
170BJ-266S	Thermostatic coil housing & rod assy. (Use 170-266S)	
170BJ-275S	Thermostatic coil-housing and rod assy. (6363, 64) (Use 170-275S)	
180-144	Dashpot bracket (6316, A, 43, A)	
181-415	Fast idle cam (6316, 43, 63)	
181-464	Fast idle cam (6317, 44, 64)	
181-465	Fast idle cam (6316A, 44A)	
181-466	Fast idle cam (6317A, 44A)	
186-149	Fuel bowl baffle	
202-335S	Choke diaphragm & bracket assy. (6316, 43, 44, 63, 64)	
202-341S	Choke diaphragm & bracket assy. (6317)	
202-462S	Dashpot assembly (6316, A, 43, A)	
202-473S	Choke diaphragm and bracket assy. (6316A, 43A, 44A)	
202-488S	Choke diaphragm and bracket assy. (6317A)	

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

1973 "V8"
BARRACUDA B - CHALLENGER J
DODGE W-DART L-PLYMOUTH R
VALIANT V

TQ FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL

CARBURETORS Nos. 6318S-SA – 6319S-SA – 6339S-SA – 6340S-SA

MODEL		ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
V, L, B, J, R, W	M/T	340	6318S-SA	6318S-SA	902-299A
V, L, B, J, R, W	A/T	340	6319S-SA	6319S-SA	902-299A
V, L, B, J, R, W (Calif.)	M/T	340	6339S-SA	6339S-SA	902-299A
V, L, B, J, R, W (Calif.)	A/T	340	6340S-SA	6340S-SA	902-299A

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	C.F.M.	FLOAT LEVEL	PUMP	VACUUM KICK	FAST IDLE CAM & LINKAGE	FAST IDLE R.P.M.	UN-LOADER	BOWL VAPOR VENT
6318S-SA	1-3/8 (P) 2-1/4 (S)	800	1" *	9/16	5/32	7/64	1300	3/16	13/16
6319S-SA	1-3/8 (P) 2-1/4 (S)	800	1" *	1/2	5/32	7/64	1800	3/16	13/16
6339S-SA	1-3/8 (P) 2-1/4 (S)	800	1" *	9/16	5/32	7/64	1300	3/16	13/16
6340S-SA	1-3/8 (P) 2-1/4 (S)	800	1" *	1/2	5/32	7/64	1800	3/16	13/16

*Cellular Float set 7/8"

MOTOR TUNE-UP — BE ACCURATE!

	Spark Plug Gap .035"	Idle Mixture Screw Limiter Cap Type	Idle R.P.M. See Decal in Engine Compartment	

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CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFICATIONS

FLOAT LEVEL: With bowl cover inverted, gasket installed and floats resting on seated needle, the dimension of each float from bowl cover gasket to bottom side of float at outer end should be as specified. To adjust, bend lever. NOTE: *Never allow lip of float to be pressed against needle when adjusting.*

SECONDARY THROTTLE LINK: Slowly open the primary throttle valves 11/32 inch from the throttle bore walls. At this point, the secondary throttle valves should just begin to open. To adjust bend throttle link.

SECONDARY THROTTLE LEVER PICK-UP: Apply light pressure downward on the fast idle screw to move choke control lever to the wide open choke position. The clearance between pick up lever and top of secondary lever should be .075". To adjust bend rear tang on throttle lever.

PUMP: STEP 1 (ALL) – With throttle valves tightly closed install throttle connector rod in center hole of pump arm. The dimension from top of bowl cover to top of plunger shaft should be as specified. To adjust, bend connector rod.

STEP 2 (MANUAL TRANS. ONLY) – Open throttle slowly until the secondary throttle shaft begins to move. Hold in this position. Measure again from top of plunger shaft, it should be 11/32 inch. To adjust bend pick up arm on the primary throttle shaft dog.

AIR VALVE OPENING: With air valve wide open there should be 31/64" between air horn wall and inner edge of air valve. To adjust bend corner of air valve with pliers.

AIR VALVE SPRING: 1. Loosen lock plug. Rotate adjustment plug (inner) clockwise to allow air valve to position itself to wide open. 2. Check to see that air valve and shaft are operating freely. 3. To adjust, rotate adjustment plug (inner) counterclockwise until air valve just contacts the stop. Then turn 1 additional turn. While holding the adjustment plug in this position, tighten lock plug.

DIAPHRAGM CONNECTOR ROD: With diaphragm stem fully depressed and air valve closed, there should be .040 inch between air valve and stop. To adjust bend diaphragm connector rod.

VACUUM KICK: Bottom the vacuum diaphragm by using an outside source of vacuum, or by pressing downward on end of diaphragm stem. Apply light pressure on choke lever to close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend tang on choke lever.

FAST IDLE CAM AND LINKAGE: With fast idle screw on second highest step of fast idle cam, close choke valve as far as possible. The dimension between the lower edge of choke valve and inner wall of air horn should be as specified. To adjust bend connector rod.

UNLOADER: With throttle valves wide open, close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend front tang on fast idle control lever.

CURB IDLE SPEED SOLENOID ADJUSTMENT: With engine running (with solenoid energized if equipped), adjust idle mixture screws and fast curb idle adjusting screw (against solenoid plunger) to secure specified engine rpm (refer to decal in engine compartment). After specified rpm has been obtained and with engine still running (with solenoid energized) adjust slow curb idle speed screw until end of screw just touches stop. Now, back off one full turn to obtain slow curb idle speed setting.

BOWL VAPOR VENT (ON CAR): With throttle valves set at curb idle, remove plug from air horn and insert a narrow ruler in hole. Rest ruler lightly on top of valve. The dimension from top of valve to top of casting should be as specified. To adjust bend operating lever.

FAST IDLE ON CAR: With fast idle screw on second step and against shoulder of first step of cam. Adjust fast idle screw to specified R.P.M.

PARTS LIST

Part No.	PART NAME	
1A-368	Flange gasket	
7-326S	Choke valve assy. (S Carbs) (Use 7-337U)	
7-328	Air valve	
7-334S	Choke valve assembly (SA Carbs)	
7-337U	Unitized package (S Carbs) (consists of 7-336S, 13-326S, 101-596-2)	
11B-294	Bowl vent plug	
11B-485	Passage plug	
11B-487	Air valve adjustment plug	
11B-488	Air valve lock plug	
13-314	Choke shaft (S Carbs) (Use 7-337U)	
13-321S	Air valve shaft & lever assy. (S Carbs)	
13-326	Choke shaft (SA Carbs)	
13-327S	Air valve shaft and lever assembly (SA Carbs)	
14-984	Choke lever	
14-994	Choke countershaft lever	
15-57	Fuel inlet fitting	
17-70	Pump discharge check needle	
20-239	Needle seat gasket	(2)
20-243	Fuel inlet fitting gasket	
20-262	Hot idle valve gasket (6319, 40) (Disc.) (Use 11B-485)	
21-249S	Float assy. (Use 21-253U)	(2)
21-253U	Unitized package (consists of 2-21-252S)	
24-15	Float pin and metering rod arm pin	(3)
25-1086S	Needle and seat assy.	(2)
30A-207	Idle mixture screw	(2)
48-365S	Pump jet and housing assy. (6319,A, 40,A)	
48-370S	Pump jet and housing assy. (6318,A, 39,A)	
51-88	Choke shaft collar	
53A-523	Bowl vent arm	
53A-526S	Bowl vent operating lever assy.	
53A-539S	Solenoid operating lever assy.	
53A-542S	Fast idle operating arm assy.	
61-84	Fast idle speed screw spring	
61-761	Pump spring (upper)	
61-800	Choke lever spring (6318,A, 39,A)	
61-873	Idle mixture screw (2) & solenoid speed screw spring (1)	
61-886	Air valve spring	
61-912	Bowl vent arm spring	
61-915	Vacuum piston spring	
61-948	Choke lever spring (6319,A, 40,A)	
61-956	Idle speed screw spring	
63-336	Connector rod retainer	(5)
63-426S	Intake check retainer assembly (Use 64-436U)	
64-432S	Pump plunger assy. (Use 64-436U)	
64-436U	Unitized package (consists of 63-426S, 64-432S)	
65-68	Step-up piston cover plate	
65-71	Step-up rod cover plate (L-H)	
65-72	Step-up cover plate (R-H)	
75-1962	Metering rod (.067"x.055"x.045") (6318,A, 39,A)	(2)
75-1966	Metering rod (.067"x.052"x.045") (6319,A, 40,A)	

Part No.	PART NAME	
96-40	Idle mixture screw limiter cap	(2)
101-277S	Metering rod cam screw	
101-387	Idle speed screw	
101-421	Pump arm screw	
101-505	Diaphragm & solenoid bracket screw	(2)
101-596	Air, choke valve & lever screw	(5)
101-616	Bowl cover screw	(10)
101-617	Cover plate screw	(3)
101-618	Pump jet housing screw	
101-629	Solenoid operating lever screw	
101-634	Choke countershaft lever screw	
101-635	Bowl vent operating arm screw	
101-637	Fast idle speed screw	
101-646	Primary throttle valve screw (use 101-663)	(4)
101-663	Primary & secondary throttle valve screw	(8)
101-667	Fast idle operating lever screw	
105A-51	Solenoid lock nut	
111-110	Metering rod arm	
111-115	Pump arm (S Carbs)	
111-122	Pump arm (SA Carbs)	
113-208S	Choke countershaft & lever assy.	
114-194	Choke lever	
115-492	Throttle operating rod	
115-500	Bowl vent connector rod	
115-507	Fast idle connector rod	
115-521	Choke connector rod	
115-522	Choke diaphragm connector rod	
115-528	Throttle connector rod (S Carbs)	
115-552	Throttle connector rod (SA Carbs)	
117-190	Pump connector link	
120-4098	Primary metering jet	(2)
120-5137S	Secondary metering jet	(2)
121-662	Pump jet housing gasket	
121-688	Air horn gasket	
121-689	Body flange gasket	
136-300	Throttle shaft spring washer	
136-308	Choke diaphragm connector rod washer	
145-304	Choke diaphragm hose	
145-406	Pump passage tube	
150A-14	Pin spring	
160-317S	Step-up piston and link assy.	
163-90	O-Ring (Use 163-131)	(2)
163-131	Quad X ring	
164-30	Grommet seal	
169-151S	Hot idle valve assy. (6319,40) (Disc.) (Use 11B-485)	
170-277S	Thermostatic coil and housing assy.	
170BT-277S	Thermostatic coil housing and rod assy. (use 107-277S)	
180-225	Solenoid bracket	
181-434	Metering rod cam	
186-158	Secondary baffle plate	
202-414S	Choke diaphragm & bracket assy.	
213-61S	Idle solenoid assy.	

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

1972-77 "6"

DODGE TRUCK

BBS DOWN-DRAFT CLIMATIC CONTROL AND MANUAL CHOKE
CARBURETORS NOS. 6218S–6219S–6220S–6395S–6396S–6583S–6584S

MODEL				ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1972-73	D-2, 3; P-2, 3, 4; W-2, 3; B-3 VAN	A/C	A/T	225	6218S	6218S	902-277A
1972-73	D-2, 3, P-2, 3, 4; W-2, 3, B-3 VAN	A/C	M/T	225	6219S	6219S	902-277A
1972-73	D-5, WM3; 1974-77 D-5, WM3 Export	M/C	M/T	225-2	6220S	6220S	902-277A
1973	D-2, 3; P-2, 3, 4; W-2, 3; B-3 VAN (CALIF)	A/C	M/T	225	6395S	6395S	902-300
1973	D-2, 3; P-2, 3, 4; W-2, 3; B-3 VAN (CALIF)	A/C	A/T	225	6396S	6396S	902-300
1974	D2-3, CB-3, W2-3, P2, B-3 Van	A/C	M/T	225	6583S	7044S	902-300
1974	D2-3, CB-3, W2-3, P2, B-3 Van	A/C	A/T	225	6584S	7045S	902-300

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THRO. BORE	C.F.M.	FLOAT SETTING	PUMP	BOWL VAPOR VENT	FAST IDLE LINKAGE	UNLOADER	CHOKE DIAPH. LINKAGE	FAST IDLE RPM
6218S	1-11/16	163	1/4	1/32	1/32	5/64	3/16	7/64	1800
6219S	1-11/16	163	1/4	1/32	1/32	5/64	3/16	7/64	2000
6220S	1-11/16	163	1/4	1/32	1/32	5/32	–	–	2800
6395S	1-11/16	163	1/4	5/16	17/64	5/64	3/16	7/64	1800
6396S	1-11/16	163	1/4	5/16	17/64	5/64	3/16	7/64	2000
6583S	1-11/16	163	1/4	5/16	–	5/64	3/16	7/64	1800
6584S	1-11/16	163	1/4	5/16	–	5/64	3/16	7/64	2000

MOTOR TUNE-UP — BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER NEEDLE & SEAT TO RESTORE TOP PERFORMANCE. THESE PARTS ARE AVAILABLE IN CARTER ZIP KIT LISTED ABOVE.

INSTALL NEW CHOKE ASSEMBLY AT EVERY TUNE UP.

Carter Carburetor Division acf

Printed in U.S.A.

St. Louis, Missouri 63132, U.S.A.

Form 5573C

CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFIC SETTINGS

FLOAT LEVEL: Clearance as specified between top of each float ridge (at center of float) and top surface of body casting. To adjust, bend lip of float arm.

PUMP AND BOWL VENT (NON-E.C.S.): With throttle connector rod in lower hole of throttle lever and plunger pin spring, in bottom hole, and groove of plunger rod (throttle valve set at curb idle). Adjust connector rod to give specified clearance between pump plunger washer and bushing. NOTE: Change plunger pin spring in accord with pump stroke.

PUMP (E.C.S.): With throttle connector rod in lower hole of throttle lever and throttle valve set at curb idle, adjust connector rod to give specified dimension between top of pump plunger shaft and shoulder of air horn.

BOWL VENT (E.C.S.): With throttle valve set at curb idle there should be specified dimension from bowl cover to top of vent valve shaft. To adjust bend lower tang on vent valve operating arm.

FAST IDLE LINKAGE: (Manual Choke) – With fast idle screw on cam index; (Automatic choke) with fast idle screw on second step and against shoulder of first step of cam, adjust choke connector rod to give specified clearance between top edge of choke valve and inner wall of air horn.

FAST IDLE ON CAR: (Manual Choke): With fast idle screw on cam index; (Automatic Choke) with fast idle screw on second step and against shoulder of first step of cam, adjust screw to specified R.P.M.

UNLOADER: Specified dimension between top edge of choke valve and inner wall of air horn with throttle valve wide open. To adjust, bend unloader arm on throttle lever.

CHOKE DIAPHRAGM LINKAGE ADJUSTMENT: With vacuum diaphragm plate (not stem) bottomed, close choke valve as far as possible without forcing. Adjust connector rod to give specific clearance between top edge of choke valve and inner wall of air horn. Remove connector rod to adjust to prevent damage to rod and diaphragm.

CURB IDLE SPEED SOLENOID: With solenoid wire disconnected and plunger fully depressed the distance from the solenoid bracket to the end of the plunger should be 7/8". To adjust loosen lock nut and turn solenoid, then tighten lock nut. With solenoid activated adjust screw to obtain R.P.M. as indicated on decal in engine compartment.

PARTS LIST

Part No.	PART NAME
1A-153	Flange gasket without governor (all exc. 6583,84)
1A-157	Flange gasket with governor (6220)
1A-315	Flange gasket (6583,84)
2-307	Throttle valve
3-1681S	Throttle shaft and lever assembly (6218, 19)
3-1703S	Throttle shaft and lever assembly (6220)
3-1840S	Throttle shaft and lever assembly (6395, 96)
3-1895S	Throttle shaft and lever assembly 6583, 84) (use 3-1924S)
3-1924S	Throttle shaft & lever assembly (6583,84)
7-195S	Choke valve assembly (6220)
7-199	Choke valve (All exc. 6220)
11B-35	Rivet plug
11B-79	Rivet plug
11B-108	Pump jet rivet plug (6)
11B-220	High speed passage rivet plug
11B-303	Rivet plug
14-870S	Choke lever and shaft assembly (6220)
14-920S	Choke lever and shaft assembly (All exc. 6220)
20-146	Step-up piston gasket
20-203	Needle seat gasket
21-222S	Float assembly
24-23	Float pin
25-1020S	Needle and seat assembly
30A-197	Idle mixture screw
38A-117	Pump plunger bushing (6218, 19, 20)
48-194	Pump jet
51-96	Throttle shaft collar (6583, 84)
53A-450	Pump arm (6218, 19, 20)
53A-494	Vent arm (6395, 96)
53A-510	Pump arm (6395, 96, 6583, 84)
61-58	Idle and fast idle speed screw spring (2)
61-538	Step-up piston spring (6218, 19, 20)
61-761	Pump spring
61-866	Choke pull-back spring (6220)
61-873	Idle mixture screw spring
61-967	Step-up piston spring (6395, 96, 6583, 84)
61-1011	Throttle return spring (6583, 84)
62-286S	Choke tube clamp assembly (6220)
63-169	Float pin retainer
63-282	Vent valve retainer (6395, 96)
63-395	Pump spring retainer (6395, 96, 6583, 84)
64-226S	Pump plunger assembly (6218, 19, 20)
64-403S	Pump plunger assembly (6395, 96, 6583, 84)
75-1796	Step-up rod (.032" x .027") (6395, 96, 6583, 84)
75-1897	Step-up rod (.036" x .032") (6218, 19, 20)
96-36	Idle mixture screw limiter cap (Use 96-40)
96-40	Idle mixture screw limiter cap
101-296	Idle speed screw
101-307S	Bowl cover screw assembly (2)
101-318	Pump arm screw
101-359S	Air horn screw assembly
101-374	Step-up piston plate guide screw
101-473	Fast idle cam screw
101-490	Fast idle speed screw (6220)
101-537	Choke diaphragm and tube bracket screw (2)
101-544S	Solenoid bracket screw assembly (6395, 96, 6583, 84) (2)
101-558	Choke valve screw (Use 101-596) (2)
101-596	Choke valve screw (2)
101-614	Fast idle speed screw (All exc. 6220)
101-633	Throttle valve screw (2)
101-675	Solenoid speed screw (6395, 96, 6583, 84)
105A-51	Solenoid nut (6395, 96, 6583, 84)
115-347	Throttle connector rod (6218, 19, 20)
115-370	Choke connector rod
115-398	Choke diaphragm connector rod (All exc. 6220)
115-413	Throttle connector rod (6395, 96)
115-559	Throttle connector rod (6583, 84)
116-13	Pump intake and discharge check ball
120-448S	Main metering jet assembly std. (440cc) (6218, 19, 20)
120-868S	Main metering jet assembly std. (.068") (6395, 96, 6583, 84)
121-656	Body flange gasket
121-696	Body gasket (Use 121-697)
121-697	Body gasket
123-74S	Idle orifice tube assembly
136-218	Pump plunger washer
145-285	Main vent tube
145-294	Choke diaphragm hose (All exc. 6220)
150A-10	Throttle connector rod pin spring
150A-21	Choke diaphragm connector rod pin spring (All exc. 6220)
150A-22	Pump plunger pin spring (6218, 19, 20)
160-302S	Step-up piston and plate assembly
*170-135	Thermostatic coil assembly (All exc. 6220)
170-1244	†Thermostatic coil assembly (6583,84)
*170BQ-135S	Thermostatic coil housing and rod assembly (Use 170-135) (All exc. 6220)
180-238	Solenoid bracket (6395, 96, 6583, 84)
181-307	Fast idle cam (6220)
181-350	Fast idle cam (All exc. 6220)
202-336S	Choke diaphragm and bracket assembly (All exc. 6220)
213-53S	Idle solenoid assembly (6395, 96, 6583, 84)

*1972 application only †1974 application only

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

1972-1973 "V8"

BARRACUDA B - DART L - DODGE D,W CHALLENGER J - PLYMOUTH P, R VALIANT - DODGE TRUCK

BBD DUAL DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOS. 6149S – 6150S-SA–6151S–6152S-SA – 6221S – 6222S

MODEL		ENGINE DISPL.	ORIGINAL CARB NO.	SERVICE CARB. NO.	ZIP KIT NO.
1972 B, L, D, J, P, R, V, W, TRK. B-1-2, B-3, D1, W1 (E.C.S.)	M/T	318	6149S	6149S	902-280A
1972 B, L, D, J, P, R, V, W, TRK. B-1-2, B-3, D1, W1 (E.C.S.)	A/T	318	6150S-SA	6150S-SA	902-280A
1972 B, L, D, J, P, R, V, W, TRK. B-1, 2, 3, D-1, W-1 (CALIF.) (E.C.S.)	M/T	318	6151S	6151S	902-280A
1972 B, L, D, J, P, R, V, W, TRK. B-1, 2, 3, D-1, W-1 (CALIF.) (E.C.S.)	A/T	318	6152S-SA	6152S-SA	902-280A
1972-73 TRK. D-2, 3, W-2, 3, B-3 VAN	M/T	318	6221S	6221S	902-294
1972-73 TRK. D-2, 3, W-2, 3, B-3 VAN, (G-4 - 1972)	A/T	318	6222S	6222S	902-294

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

(SEE BACK PAGE FOR PROCEDURE)

CARB. NO.	THRO. BORE	C.F.M.	FLOAT	PUMP & BOWL VAPOR VENT	FAST IDLE LINKAGE	FAST IDLE R.P.M.	UNLOADER	CHOKE DIAPH. LINKAGE
6149S	1-7/16	260	1/4	17/64	3/32	1700	1/4	5/32
6150S-SA	1-7/16	260	1/4	17/64	3/32	1900	1/4	5/32
6151S	1-7/16	260	1/4	17/64	3/32	1800	1/4	5/32
6152S-SA	1-7/16	260	1/4	17/64	3/32	2000	1/4	5/32
6221S	1-7/16	260	1/4	1/32	3/32	1900	1/4	5/32
6222S	1-7/16	260	1/4	1/32	3/32	1900	1/4	5/32

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug Gap .035"	Breaker Point Setting .014"–.019"	Ignition Timing See Decal In Engine Compartment	Idle Mixture Screw Limiter Cap Type	Idle R.P.M. See Decal In Engine Compartment

Carter Carburetor Division acf

PRINTED IN U.S.A.

St. Louis, Missouri 63107 U.S.A.

CARBURETOR ADJUSTMENTS

FLOAT LEVEL: Clearance as specified between top of each float ridge (at center of float) and top surface of body casting. To adjust bend lip on float arm.

PUMP AND BOWL VENT: (NON-E.C.S.) Install pump connector rod in center hole (medium stroke) of throttle lever and inner hole of pump arm. With plunger retainer in center groove of plunger rod, (throttle valves set at curb idle) adjust pump connector rod to give specified dimension between pump plunger washer and bushing in bowl cover. NOTE: Change plunger pin spring in accord with pump stroke.

PUMP AND BOWL VENT: (E.C.S.): With throttle connector rod in center hole of throttle lever, inner hole of pump arm and plunger retainer in center groove of plunger rod (throttle valves set at curb idle) adjust connector rod to give specified dimension between top of pump plunger shaft and shoulder of air horn.

FAST IDLE LINKAGE: With fast idle screw on second step and against shoulder of first step of cam, adjust fast idle connector rod to give specified dimension between top edge of choke valve and inner wall of air horn.

FAST IDLE ON CAR: With fast idle screw on second step and against shoulder of first step of cam, adjust screw to specified R.P.M.

UNLOADER: Specified dimension between top edge of choke valve and inner wall of air horn with throttle valves wide open. To adjust, bend unloader arm on throttle lever.

CHOKE DIAPHRAGM LINKAGE: With vacuum diaphragm plate (not stem) bottomed, close choke as far as possible without forcing. Adjust connector rod to give specified clearance between top edge of choke valve and inner wall of air horn. Remove connector rod to adjust to prevent damage to rod and diaphragm.

DASH POT: With throttle held at 2000 R.P.M. adjust dashpot so that stem just contacts lever. Tighten lock nut.

PARTS LIST

Part No.	PART NAME
1A-316	Flange gasket (6149, 50, A, 51, 52, A)
1A-333	Flange gasket (6221, 22)
2-303	Throttle valve (2)
3-1694S	Throttle shaft & lever assy. (6149, 51)
3-1848S	Throttle shaft & lever assy. (6150, A, 52, A, 6221, 6222)
7-329	Choke valve
14-847S	Choke lever & shaft assy.
14-850S	Choke lever assy.
20-146	Stup-up piston gasket
20-203	Needle seat gasket
21-235S	Float assembly
24-23	Float pin
25-1003S	Needle & seat assy. (flared tip)
30A-198	Idle mixture screw (2)
53A-448	Pump arm (6221, 22)
53A-547	Pump arm (6149, 50, A, 51, 52, A)
61-58	Idle & fast idle speed screw spring (2)
61-538	Step-up piston spring (all exc. 6152, A)
61-653	Pump spring (6221, 22)
61-873	Idle mixture screw spring
61-940	Bowl vent spring (6149, 50, A, 51, 52, A)
61-942	Pump spring (6149, 50,A, 51, 52, A)
61-962	Step-up piston spring (6152, A)
63-238	Float pin retainer
63-282	Plunger retainer (6149, 50, A, 51, 52, A) (2)
63-336	Fast idle connector rod retainer (2)
63-361	Plunger retainer (6221, 22)
64-371S	Pump plunger & rod assy. (6221, 22)
64-413S	Pump plunger & rod assy. (6149, 50, A, 51, 52, A)
65-64	Bowl vent cover plate (6149, 50, A, 52, A)
75-1645	Step-up rod (.026"x.022") (6221, 22) (Use 15-1927)
75-1895	Step-up rod (.032"x.027") (6149, 50,A,51,52,A)
75-1927	Step up rod (.027"x.021")(6221, 22)
75-1936	Step-up rod (.033"x.0275")(6150,52)(Use 75-1895)(2)
96-36	Idle mixture screw limiter cap (Use 96-40) (2)
96-40	Idle mixture screw limiter cap
101-70	Pump arm screw (6221, 22)
101-296	Fast idle speed screw
101-307S	Air horn screw assy. (6149, 51-2) (6150, A, 52, A 6221, 22-4)
101-318	Pump arm screw (6149, 50, A, 51, 52, A)
101-362S	Air horn screw assy. (6149, 51) (2)
101-374	Step-up piston plate screw
101-419	Throttle valve screw (4)
101-428	Choke diaphragm bracket screw (2)
101-544S	Body screw assembly (2)
101-558	Choke valve screw (Brass) (2)
101-563	Idle speed screw
101-565	Fast idle cam screw

Part No.	PART NAME
101-569	Venturi cluster screw (6151, 52, A) (2)
101-579	Venturi cluster screw (6149, 6221, 22) (2)
101-596	Choke valve screw (steel) (2)
101-615	Bowl vent cover plate screw (6151, 52, A) (3)
101-639	Venturi cluster screw (6150, A) (2)
101-680S	Body flange screw assy. (2)
103-14	Lead shot
103-15	Lead shot (2)
103-20	Lead shot (2)
105A-60	Dashpot lock nut (6149, 51)
108-94	Choke connector rod spacer
115-265	Throttle connector rod (6221, 22)
115-399	Choke diaphragm rod
115-409	Fast idle connector rod
115-424	Throttle connector rod (6150, A, 52, A)
115-523	Throttle connector rod (6149, 51)
116-13	Pump discharge check ball
116-18	Pump intake check ball
118-275S	Venturi cover assembly
120-300S	Main metering jet (340cc) Std. (6221,22) (2)
120-309S	Main metering jet (383cc) Std. (6149,50,A,51,52,A)(2)
121-285	Venturi housing gasket
121-531	Body flange gasket (6221, 22)
121-561	Venturi cover gasket
121-658	Body flange gasket (6149, 50, A, 51, 52, A)
121-659	Bowl vent cover gasket (6149, 50, A, 51, 52, A)
121-672	Body gasket
136-191	Plunger washer (6149, 50, A, 51, 52, A) (3)
136-218	Plunger washer (6221, 22)
145-303	Choke diaphragm hose
150A-10	Pin spring
150A-21	Choke diaphragm pin spring
160-310S	Step-up piston & plate assy.
169-144	Bowl vent valve (6149, 50, A, 51, 52, A)
170-222	Thermostatic coil, housing & rod assy. (6149, 50, A, 51, 52,A)
170-232	Thermostatic coil, housing & rod assy. (6221,22)
170BJ-222S	Thermostatic coil housing & rod assy. (6149, 50, A, 51, 52,A) (USE 170-222)
170BJ-232S	Thermostatic coil housing & rod assy. (6221,22) (USE 170-232)
180-144	Dashpot bracket (6149, 51)
181-414	Fast idle cam (6150, A, 52, A) (Use 181-464)
181-415	Fast idle cam (6149, 51, 6221, 22)
181-464	Fast idle cam (6150, A, 52, A)
186-149	Fuel bowl baffle
202-277S	Dashpot assy. (6149, 51) (use 202-462S)
202-335S	Choke diaphragm & bracket assy.
202-462S	Dashpot Assembly (6149, 51)

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

1972 CHRYSLER PERFORMANCE CARBURETOR AND OFF ROAD VEHICLES

AFB FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOS. 9501S – 9626S

CARB.	ENGINE DISPL.	C.F.M.	ZIP KIT NO.	STRIP KIT
9501S	383	500	902-317	10-101 or 10-201
9626S	383	625	902-317	10-101 or 10-201

CARBURETOR ADJUSTMENTS

FLOAT LEVEL

With bowl cover inverted, bowl cover gasket in place, and weight of float seating needle, there should be 9/32 inch between top of each float and bowl cover gasket (at outer end). The sides of floats should be parallel to the outer edge of the bowl cover. To adjust bend float lever. **CAUTION! DO NOT PRESS NEEDLE INTO SEAT WHEN ADJUSTING FLOAT LEVER.**

FLOAT DROP

With bowl cover held in upright position adjust stop tabs on float brackets to obtain 15/16 inch between outer end of each float and air horn gasket. To adjust bend tab on float lever.

PUMP

Back out throttle speed screw to allow throttle valves to seat in bores. Install connector rod in bottom hold of pump lever. Adjust rod to obtain 13/32 inch from top of bowl cover to top of plunger stem.

CHOKE PISTON LINKAGE

Open the choke valve and insert a .026 wire (bend 90° 1/8" from the end) between top of slot in choke piston cylinder and the bottom of the slot in the piston. Hold wire in position and close choke valve by pressing on piston lever until resistance is felt. The dimension should be 7/64 inch between the top edge of choke valve and wall of air horn. To adjust move clamp lever.

FAST IDLE LINKAGE

Place fast idle screw on second step of cam. Move choke valve toward the closed position as far as possible without forcing. The dimension should be 3/64 inch between the upper edge of choke valve and wall of air horn. To adjust bend rod.

SECONDARY THROTTLE LOCK OUT

Crack throttle valves and manually open and close the choke valve. Tang on secondary throttle lever should freely engage in notch of lock out dog. To adjust bend tang on secondary throttle lever.

SECONDARY THROTTLE VALVE OPENING

Secondary throttle valves should just start to open when there is 11/32 inch between primary throttle valve and bore of carburetor. To adjust bend connector rod. With primary throttle valves wide open adjust stop tang until secondary valves are 5° before full vertical position.

SECONDARY THROTTLE VALVE CLOSING

With primary and secondary throttle valves tightly closed, there should be .020 clearance between levers. To adjust bend shoe on lever.

UNLOADER

With throttle valves open, close choke valve as far as possible without forcing. The dimension between top edge of choke valve and inner wall of air horn should be 1/4 inch. To adjust, bend tang on throttle lever.

ELECTRIC CHOKE SETTING

Rotate cover against spring tension until mark on thermostat cover is aligned with index mark on housing. Turn clockwise an additional two notches rich for proper setting.

PARTS LIST

PART NO.	PART NAME	
*1A-303	Flange gasket	(2)
16-691	Step-up rod (.0760" x .055")	(2)
*17-51	Pump discharge check needle	
*20-43	Piston housing gasket	
*20-243	Fuel inlet fitting gasket	
21-188A	Float and lever assembly	(2)
*25-860S	Needle and seat assembly	(2)
30A-149	Idle adjustment screw	(2)
47-30	Piston housing welsh plug	
61-84	Fast idle speed screw spring	
*61-171	Pump spring (lower)	
*61-585	Step-up rod retaining spring	(2)
*61-604	Vacuum piston spring	(2)
*64-418S	Pump plunger, rod and spring assembly	
101-136	Coil housing screw	(3)
101-420	Primary throttle valve screw	(4)
101-558	Choke valve screw	(2)
*117-190	Pump connector link	
120-383	Secondary metering jet (.083") (9501)	(2)
120-398	Primary metering rod jet (.098") (9501)	(2)
120-398	Primary & secondary metering jet (.098") (9626)	(4)
*121-78	Coil housing gasket	
*121-287	Pump jet housing gasket	
*121-292	Air horn gasket	
*121-302	Primary venturi cluster gasket	(2)
*121-602	Secondary venturi cluster gasket	(2)
*122-108S	Pump intake ball check assembly	
*150-311	Choke piston pin	
*150A-10	Pin spring	(4)
170-1313S	Thermostatic coil and housing assembly	
*184-106	Choke tube cap	

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

*Available in Zip Kit No. 902-317 only.
All other parts not listed are available on special factory order only.

Carter Carburetor Division
ST. LOUIS, MO. 63132

Printed in U.S.A.

1972 "8"
DODGE TRUCK

BBD DOWN-DRAFT MANUAL CHOKE **CARBURETORS NOS. 6223S – 6224S**

MODEL		ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
D-5, 6; W-6; C-6	S/T	318-3	6223S	6223S	902-294
S-6	S/T	318-3	6224S	6224S	902-294

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THRO. BORE	C.F.M.	CHOKE	FLOAT	PUMP & BOWL VAPOR VENT	FAST IDLE LINKAGE	FAST IDLE R.P.M.
6223S	1-7/16	275	MANUAL	1/4	1/32	CLOSED	1900
6224S	1-7/16	275	MANUAL	1/4	1/32	CLOSED	1900

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug	Breaker Point Setting	Idle Mixture Screw
.035"	.020"	Limiter Cap Type

Carter Carburetor Division acf

Printed in U.S.A.

St. Louis, Missouri 63107 U.S.A.

CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFIC SETTINGS

FLOAT LEVEL: Clearance as specified between top of each float ridge (at center of float) and top surface of body casting. To adjust bend lip on float arm.

PUMP AND BOWL VENT: Install pump connector rod in center hole (medium stroke) of throttle lever and inner hole of pump arm. With plunger retainer in center groove of plunger rod, (throttle valves set at curb idle) adjust pump connector rod to give specified dimension between pump plunger washer and bushing in bowl cover. **NOTE:** Change plunger pin spring in accord with pump stroke.

FAST IDLE LINKAGE: With fast idle screw on cam between index marks, adjust fast idle connector rod so that choke is fully closed.

FAST IDLE ON CAR: With fast idle screw on cam between index marks, adjust screw to specified R.P.M.

PARTS LIST

Part No.	PART NAME	
1A-333	Flange gasket w/o gov. (6223)	
1A-334	Flange gasket w/gov.	
2-303	Throttle valve (6223)	(2)
2-304	Throttle valve (6224)	(2)
3-1735S	Throttle shaft & lever assembly	
7-172	Choke valve	
14-914S	Choke lever & shaft assembly	
14-923	Choke lever	
14-925S	Choke lever assembly	
20-146	Step up piston gasket	
20-203	Needle seat gasket	
21-235S	Float and lever assembly	
24-23	Float lever pin	
25-1003S	Needle & seat assy. (flared tip)	
30A-198	Idle mixture screw	(2)
53A-448	Pump arm	
61-58	Idle & fast idle speed screw spring	(2)
61-538	Step up piston spring	
61-653	Pump spring	
61-800	Choke lever spring	
61-873	Idle mixture screw spring	(2)
62-284S	Choke tube clamp assembly	
63-238	Float lever pin retainer	
63-336	Fast idle connector rod retainer	(2)
63-361	Plunger retainer	
64-371S	Pump plunger & rod assembly	
75-1721	Metering rod (.024"x.021") (6224)	(2)
75-1727	Metering rod (.029"x.025") (6223)	(2)
96-36	Idle mixture screw limiter cap (Use 96-40)	(2)
96-40	Idle mixture screw limiter cap	
101-65	Choke shaft lever screw	
101-70	Pump arm screw	

Part No.	PART NAME	
101-307S	Air horn screw assembly	(4)
101-374	Step up piston plate screw	
101-419	Throttle valve screw	(4)
101-428	Choke tube and bracket screw	(2)
101-680S	Body flange screw assembly	(2)
101-544S	Body screw assembly	(2)
101-558	Choke valve screw	(2)
101-563	Idle speed screw	
101-565	Fast idle cam screw	
101-593	Venturi cluster screw	(2)
101-614	Fast idle speed screw	
103-14	Lead shot	
103-15	Lead shot	(2)
103-20	Lead shot	(2)
108-94	Choke connector rod spacer	
115-265	Throttle connector rod	
115-409	Fast idle connector rod	
116-13	Pump discharge check ball	
116-18	Pump intake check ball	
118-275S	Venturi cover assembly (6224)	
118-318S	Venturi cover assembly (6223)	
120-300S	Main metering jet assy. (337-343cc) Std.	(2)
121-285	Venturi housing gasket	
121-531	Body flange gasket	
121-561	Venturi cover gasket	
121-672	Body gasket	
136-218	Plunger washer	
136-219	Choke lever retainer washer	
150A-10	Pin spring	(2)
160-310S	Step-up piston & plate assembly	
181-439	Fast idle cam	
186-149	Fuel bowl baffle	

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

1972 "V8"

BARRACUDA B - CHALLENGER J

DODGE W-DART L -

PLYMOUTH R-VALIANT V

TQ FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL CARBURETORS Nos. 6138S-SA – 6139S-SA – 6144S – 6394S-SA

MODEL		ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
B, J, L, V, R, W	S/T	340	6138S-SA	6138SA	902-299A
B, J, L, V, R, W	A/T	340	6139S-SA	6139SA	902-299A
L, EXPORT	A/T	340	6144S-6394S-SA	6394SA	902-299A

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	C.F.M.	FLOAT LEVEL	PUMP	VACUUM KICK	FAST IDLE CAM & LINKAGE	FAST IDLE R.P.M.	UN-LOADER	BOWL VAPOR VENT
6138S-SA	1-3/8 (P) 2-1/4 (S)	800	1" *	9/16	5/32	7/64	1900	3/16	13/16
6139S-SA	1-3/8 (P) 2-1/4 (S)	800	1" *	1/2	9/64	7/64	1900	3/16	13/16
6144S 6394S-SA	1-3/8 (P) 2-1/4 (S)	800	1" *	1/2	9/64	7/64	1900	3/16	13/16

*Cellular float set 7/8"

MOTOR TUNE-UP – BE ACCURATE!

Spark Plug Gap .035"	Idle Mixture Screw Limiter Cap Type	Idle R.P.M. See Decal in Engine Compartment

CARBURETOR ADJUSTMENTS

FLOAT LEVEL

With bowl cover inverted, gasket installed and floats resting on seated needle, the dimension of each float from bowl cover gasket to bottom side of float at outer end should be as specified. To adjust, bend lever. NOTE: *Never allow lip of float to be pressed against needle when adjusting.*

SECONDARY THROTTLE LINK

Slowly open the primary throttle valves 11/32 inch from the throttle bore walls. At this point, the secondary throttle valves should just begin to open. To adjust, bend the throttle link.

SECONDARY THROTTLE LEVER PICK-UP

Apply light pressure downward on the fast idle screw to move choke control lever to the wide open choke position. The clearance between pick up lever and top of secondary lever should be .075". To adjust, bend rear tang on throttle lever.

PUMP

STEP 1 (ALL)

With throttle valves tightly closed install throttle connector rod in center hole of pump arm. The dimension from top of bowl cover to top of plunger shaft should be as specified. To adjust, bend connector rod.

STEP 2 (MANUAL TRANS. ONLY)

Open throttle slowly until the secondary throttle shaft begins to move. Hold in this position. Measure again from top of plunger shaft, it should be 9/32 inch. To adjust, bend pick up arm on the primary throttle shaft dog.

AIR VALVE OPENING

With air valve wide open there should be 29/64" between air horn wall and inner edge of air valve. To adjust, bend corner of air valve with pliers.

AIR VALVE SPRING

1. Loosen lock plug. Rotate adjustment plug (inner) clockwise to allow air valve to position itself to wide open.
2. Check to see that air valve and shaft are operating freely.
3. To adjust, rotate adjustment plug (inner) counterclockwise until air valve just contacts the stop, then turn 1-1/4 additional turns while holding the adjustment plug in this position, tighten lock plug.

DIAPHRAGM CONNECTOR ROD

With diaphragm stem fully depressed and air valve closed, there should be .040 inch between air valve and stop. To adjust, bend diaphragm connector rod.

VACUUM KICK

Bottom the vacuum diaphragm by using an outside source of vacuum, or by pressing downward on end of diaphragm stem. Apply light pressure on choke lever to close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend tang on choke lever.

FAST IDLE CAM AND LINKAGE

With fast idle screw on second highest step of fast idle cam, close choke valve as far as possible. The dimension between the lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend connector rod.

UNLOADER

With throttle valves wide open, close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend front tang on fast idle control lever.

CURB IDLE SPEED SOLENOID ADJUSTMENT

With engine running (with solenoid energized if equipped), adjust idle mixture screws and fast curb idle adjusting screw (against solenoid plunger) to secure specified engine rpm (refer to decal in engine compartment). After specified rpm has been obtained and with engine still running (with solenoid energized) adjust slow curb idle speed screw until end of screw just touches stop. Now, back off one full turn to obtain slow curb idle speed setting.

BOWL VAPOR VENT (ON CAR)

With throttle valves set at curb idle, remove plug from air horn and insert a narrow ruler in hole. Rest ruler lightly on top of valve. The dimension from top of valve to top of casting should be as specified. To adjust, bend operating lever.

FAST IDLE ON CAR

With fast idle screw on second step and against shoulder of first step of cam. Adjust fast idle screw to specified R.P.M.

PARTS LIST

Part No.	PART NAME	
1A-337	Flange gasket	(2)
7-326S	Choke valve assy. (S Carbs) (Use 7-337U)	
7-328	Air valve	
7-334S	Choke valve assembly (SA Carbs)	
7-337U	Unitized package (S Carbs) (consists of 7-336S, 13-326S, 101-596-2)	
11B-294	Bowl vent plug	
11B-487	Air valve adjustment plug	
11B-488	Air valve lock plug	
13-314	Choke shaft (S Carbs) (Use 7-337U)	
13-315S	Air valve shaft & lever assy. (Use 13-321S)	
13-321S	Air valve shaft & lever assy. (S Carbs)	
13-326	Choke shaft (SA Carbs)	
13-327S	Air valve shaft and lever assembly (SA Carbs)	
14-984	Choke lever	
14-985	Choke countershaft lever (Use 14-994)	
14-994	Choke countershaft lever	
15-57	Fuel inlet fitting	
17-70	Pump discharge check needle	
20-239	Needle seat gasket	(2)
20-243	Fuel inlet fitting gasket	
20-262	Hot idle valve gasket (6139,A)	
21-249S	Float assy. (Use 21-253U)	(2)
21-253U	Unitized package (consists of 2-21-252S)	
24-15	Float & metering rod arm pin	(3)
24-32	Metering rod arm pin (Use 24-15)	
25-1086S	Needle and seat assy.	(2)
30A-207	Idle mixture screw	(2)
48-365S	Pump jet and housing assy. (6139,A)	
48-369S	Pump jet and housing assy. (6144, 6394,A)	
48-370S	Pump jet and housing assy. (6138,A)	
51-88	Choke shaft collar	
53A-518S	Pump operating lever assy. (6139,A, 44, 6394,A)	
53A-523	Bowl vent arm	
53A-526S	Bowl vent operating lever assy.	
53A-527	Bowl vent operating arm	
53A-542S	Fast idle operating arm assy.	
53A-544S	Pump operating lever assy. (6138,A)	
61-84	Fast idle speed screw spring	
61-119	Choke lever spring (6139,A, 44) (6394-Use 61-948)	
61-761	Pump spring (upper) (Use 61-966)	
61-873	Idle mixture screw spring	(2)
61-886	Air valve spring	
61-890	Secondary throttle shaft spring	
61-912	Bowl vent arm spring	
61-915	Vacuum piston spring	
61-948	Choke lever spring (6138,A, 94,A)	
61-953	Primary throttle shaft spring	
61-956	Idle speed screw spring	
61-966	Pump spring upper	
63-336	Connector rod retainer	(5)
63-426S	Intake check retainer assy. (Use 64-436U)	
64-417S	Pump plunger assy. (Use 64-436U)	
64-432S	Pump plunger assy. (Use 64-436U	
64-436U	Unitized Package (Consists of 1–63-426S, 1–64-432S).	
65-68	Vacuum piston cover plate	

Part No.	PART NAME	
65-71	Metering rod cover plate (L-H)	
65-72	Metering cover plate (R-H)	
75-1940	Metering rod (.072"x.060"x.045") (6138,A,39,A)	(2)
75-1941	Metering rod (.073"x.061"x.045") (6144,6394,A)	(2)
96-40	Idle mixture screw limiter cap	(2)
101-277S	Metering rod cam screw	
101-387	Idle speed screw	
101-421	Pump arm screw	
101-505	Diaphragm bracket screw	
101-596	Air, choke valve, lever screw	(5)
101-616	Bowl cover screw	(10)
101-617	Cover plate screw	(3)
101-618	Pump jet housing screw	
101-634	Choke countershaft lever screw	
101-635	Bowl vent operating arm screw	
101-637	Fast idle speed screw	
101-646	Primary throttle valve screw (Use 101-663)	(4)
101-663	Primary & Secondary throttle valve screw	(8)
101-667	Fast idle operating lever screw	
111-76	Pump arm	
111-110	Metering rod arm (Use 11-115)	
111-115	Pump arm (Use with 115-528)	
111-122	Pump arm (SA Carbs)	
113-208S	Choke countershaft & lever assy.	
114-194	Choke lever	
115-492	Throttle operating rod	
115-500	Bowl vent connector rod	
115-507	Fast idle connector rod	
115-508	Throttle connector rod (Use 115-528)	
115-521	Choke connector rod	
115-522	Choke diaphragm connector rod	
115-528	Throttle connector rod (Use with 111-115)	
115-532	Throttle connector rod (SA Carbs)	
117-190	Pump connector link	
120-409S	Primary metering jet	(2)
120-5137S	Secondary metering jet assy.	(2)
121-662	Pump jet housing gasket	
121-688	Air horn gasket	
121-689	Body flange gasket	
136-300	Throttle shaft spring washer	
136-308	Choke diaphragm connector rod washer	
145-304	Choke diaphragm hose	
145-406	Pump passage tube	
150A-14	Pin spring	
160-317S	Vacuum piston and link assy.	
163-90	O Ring	(2)
163-131	O Ring	
164-30	Grommet seal	
169-151S	Hot idle valve assy. (6139,A)	
170-148	Thermostatic coil assy.	
170BT-148S	Thermostatic coil housing and rod assy. (Use 170-148)	
181-434	Metering rod cam	
186-158	Secondary baffle plate	
202-407S	Choke diaphragm & bracket assy. (6139,A, 44, 6394,A)	
202-414S	Choke diaphragm & bracket assy. (6138,A)	

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

1972 "V8"

DODGE D,W - PLYMOUTH P,R

TQ FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL

CARBURETORS Nos. 6090S-SA – 6140S-SA – 6165S-SA – 6166S-SA

MODEL		ENGINE DISPL.	C.F.M.	ORIGINAL CARB. NO.	ZIP KIT NO.
C, P, R, W.	A/T	400	850	6090S	902-295
D, P, R, W	S/T	400	700	6140S	902-295
D, P, R, W (Calif.)	S/T	400	700	6165S	902-295
D, P, R, W (Calif.)	A/T	400	700	6166S	902-295

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	FLOAT LEVEL	PUMP	VACUUM KICK	FAST CAM & IDLE LINKAGE	FAST IDLE R.P.M.	UN-LOADER	BOWL VAPOR VENT
6090S-SA	1-1/2 (P) 2-1/4 (S)	1" *	1/2	9/64	7/64	1900	3/16	3/16
6140S-SA	1-1/2 (P) 2-1/4 (S)	1" *	9/16	5/32	7/64	1900	3/16	3/16
6165S-SA	1-1/2 (P) 2-1/4 (S)	1" *	9/16	5/32	7/64	2000	3/16	3/16
6166S-SA	1-1/2 (P) 2-1/4 (S)	1" *	1/2	9/64	7/64	2100	3/16	3/16

* Cellular floats set 29/32"

MOTOR TUNE-UP – BE ACCURATE!

WHEN SERVICING CARBURETOR, ALWAYS REPLACE GASKETS, PUMP PLUNGER, NEEDLE & SEAT TO RESTORE TOP PERFORMANCE. THESE PARTS ARE AVAILABLE IN CARTER ZIP KIT LISTED ABOVE.

INSTALL NEW CHOKE ASSEMBLY AT EVERY TUNEUP.

Carter Carburetor Division acf

Printed in U.S.A.

St. Louis, Missouri 63107 U.S.A.

CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFIC SETTINGS

FLOAT LEVEL: With bowl cover inverted, gasket installed and floats resting on seated needle, the dimension of each float from bowl cover gasket to bottom side of float at outer end should be as specified. To adjust, bend lever. NOTE: *Never allow lip of float to be pressed against needle when adjusting.*

SECONDARY THROTTLE LINK: Slowly open the primary throttle valves 11/32 inch from the throttle bore walls. At this point, the secondary throttle valves should just begin to open. To adjust bend the throttle link.

SECONDARY THROTTLE LEVER PICK-UP: Apply light pressure downward on the fast idle screw to move choke control lever to the wide open choke position. The clearance between pick up lever and top of secondary lever should be .075". To adjust bend rear tang on throttle lever.

PUMP: STEP 1 (ALL) – With throttle valves tightly closed install throttle connector rod in center hole of pump arm. The dimension from top of bowl cover to top of plunger shaft should be as specified. To adjust, bend connector rod.

STEP 2 (MANUAL TRANS. ONLY) – Open throttle slowly until the secondary throttle shaft begins to move. Hold in this position. Measure again from top of plunger shaft, it should be 9/32 inch. To adjust bend pick up arm on the primary throttle shaft dog.

AIR VALVE OPENING: With air valve wide open there should be 31/64" between air horn wall and inner edge of air valve. To adjust bend corner of air valve with pliers.

AIR VALVE SPRING: 1. Loosen lock plug. Rotate adjustment plug (inner) clockwise to allow air valve to position itself to wide open. 2. Check to see that air valve and shaft are operating freely. 3. To adjust, rotate adjustment plug (inner) counterclockwise until air valve just contacts the stop. Then turn 1 additional turn. While holding the adjustment plug in this position, tighten lock plug.

DIAPHRAGM CONNECTOR ROD: With diaphragm stem fully depressed and air valve closed, there should be .040 inch between air valve and stop. To adjust bend diaphragm connector rod.

VACUUM KICK: Bottom the vacuum diaphragm by using an outside source of vacuum, or by pressing downward on end of diaphragm stem. Apply light pressure on choke lever to close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend tang on choke lever.

FAST IDLE CAM AND LINKAGE: With fast idle screw on second highest step of fast idle cam, close choke valve as far as possible. The dimension between the lower edge of choke valve and inner wall of air horn should be as specified. To adjust bend connector rod.

UNLOADER: With throttle valves wide open, close choke valve as far as possible without forcing. The dimension between lower edge of choke valve and inner wall of air horn should be as specified. To adjust, bend front tang on fast idle control lever.

CURB IDLE SPEED SOLENOID ADJUSTMENT: With engine running (with solenoid energized if equipped), adjust idle mixture screws and fast curb idle adjusting screw (against solenoid plunger) to secure specified engine rpm (refer to decal in engine compartment). After specified rpm has been obtained and with engine still running (with solenoid energized) adjust slow curb idle speed screw until end of screw just touches stop. Now, back off one full turn to obtain slow curb idle speed setting.

BOWL VAPOR VENT (ON CAR): With throttle valves set at curb idle, remove plug from air horn and insert a narrow ruler in hole. Rest ruler lightly on top of valve. The dimension from top of valve to top of casting should be as specified. To adjust bend operating lever.

FAST IDLE ON CAR: With fast idle screw on second step and against shoulder of first step of cam. Adjust fast idle screw to specified R.P.M.

PARTS LIST

Part No.	PART NAME	
*1A-337	Flange gasket	(2)
7-326S	Choke valve assy. (use 7-337U)	
7-328	Air valve	
7-334S	Choke valve assembly (SA Carbs)	
7-337U	Unitized package (S Carbs) (consists of 7-336S, 13-326S, 101-596-2)	
11B-294	Bowl vent plug	
11B-487	Air valve adjustment plug	
11B-488	Air valve lock plug	
13-314	Choke shaft lever (S carbs) (use 7-337U)	
13-315S	Air valve shaft & lever assy. (use 13-321S)	
13-321S	Air valve shaft & lever assy. (S carbs)	
13-326	Choke shaft (SA carbs)	
13-327S	Air valve shaft and lever assembly (SA Carbs)	
14-984	Choke lever	
14-994	Choke countershaft lever	
15-57	Fuel inlet fitting	
17-70	Pump discharge check needle	
20-239	Needle seat gasket	(2)
20-243	Fuel inlet fitting gasket	
*20-262	Hot idle valve gasket (6166)	
21249S	Float assembly (Use 21-253U)	(2)
21-253U	Unitized package (consists of 2-21-252S)	
24-15	Float & metering rod arm pin	(3)
24-32	Metering rod arm pin (use 24-15)	(2)
*25-1086S	Needle and seat assembly	(2)
30A-212	Idle mixture screw	(2)
48-365S	Pump jet and housing assembly (6090,A, 6166,A)	
48-370S	Pump jet and housing assembly (6140,A, 65,A)	
51-88	Choke shaft collar	
51-93	Throttle shaft collar	
53A-518S	Pump operating lever assembly (6090,A, 6166,A)	
53A-523	Bowl vent arm	
53A-526S	Bowl vent operating lever	
53A-539S	Solenoid operating lever	
53A-542S	Fast idle operating arm	
53A-544S	Pump operating lever assembly (6140,A, 65,A)	
61-84	Fast idle screw spring	
61-761	Pump spring (upper) (use 61-966)	
61-800	Choke lever spring (6140,A, 65,A)	
61-886	Air valve spring	
61-873	Idle mixture screw & solenoid speed screw spring	(3)
61-912	Bowl vent arm spring	
61-915	Vacuum piston spring (6090,A, 6166,A)	
61-925	Primary throttle shaft spring (use 61-953)	
61-928	Vacuum piston spring (6140,A, 65A)	
61-948	Choke lever spring (6090,A, 6166,A)	
61-956	Idle speed screw spring	
61-966	Pump spring (upper)	
63-336	Connector rod retainer	
*63-426S	Intake check retainer assembly (use 64-436U)	
64-417S	Pump plunger assembly (use 64-436U)	
*64-436U	Unitized package (consists of 1–63-426S, 1–64-432S)	
65-68	Vacuum piston cover plate	
65-71	Metering rod cover plate (L-H)	
65-72	Metering rod cover plate (R-H)	
75-1937	Metering rod (.070" x .046" x .040") (6090,A)	(2)
75-1938	Metering rod (.071" x .051" x .040") (6165,A)	(2)
75-1929	Metering rod (.070" x .058" x .040") (6140,A) (Use 75-1950)	
75-1950	Metering rod (.068"x.057" x .040") (6140,A)	(2)
*96-40	Idle mixture screw limiter cap	(2)
101-277S	Metering rod cam screw	
101-387	Idle speed screw	
101-421	Pump arm screw	
101-505	Diaphragm & solenoid bracket screw	(2)
101-596	Air, choke valve, lever screw	(5)
101-616	Bowl cover screw	(10)
101-617	Cover plate screw	(3)
101-618	Pump jet housing screw	
101-629	Solenoid operating lever screw	
101-634	Choke countershaft lever screw	
101-635	Bowl vent and solenoid operating arm screw	
101-637	Fast idle speed screw	
101-646	Primary throttle valve screw (use 101-663)	(4)
101-663	Primary & secondary throttle valve screw	(8)
101-667	Fast idle operating lever screw	
105A-51	Solenoid lock nut	
111-76	Pump Arm (use 111-115)	
111-110	Metering rod arm	
111-115	Pump arm (use with 115-528) (S Carbs)	
111-122	Pump arm (SA Carbs)	
113-208S	Choke countershaft & lever assembly	
114-194	Choke lever	
115-492	Throttle operating rod	
115-500	Bowl vent connector rod	
115-507	Fast idle connector rod	
115-508	Throttle connector rod (use 115-528)	
115-521	Choke connector rod	
115-522	Choke diaphragm connector rod	
115-528	Throttle connector rod (use with 111-115) (S Carbs)	
115-552	Throttle connector rod (SA Carbs)	
117-190	Pump connector link	
120-4095	Primary metering jet	(2)
120-5137S	Secondary metering jet	(2)
*121-662	Pump jet housing gasket	
*121-688	Air horn gasket	
*121-706	Body flange gasket	
136-300	Throttle shaft spring washer	
136-308	Choke diaphragm connector rod washer	
145-304	Choke diaphragm hose	
*145-406	Pump passage tube	
150A-14	Pin spring	
160-317S	Vacuum, piston and link assembly	
163-90	O Ring (use 163-131)	(2)
*163-131	O Ring Quad X Ring	
164-30	Grommet seal	
169-151S	Hot idle valve assembly (6166,A)	
170-245	Thermostatic coil housing and rod assy.	
170BT-245S	Thermostatic coil housing & rod assy. (Use 170-245)	
180-225	Solenoid bracket	
181-434	Metering rod cam	
186-158	Secondary baffle plate	
202-407S	Choke diaphragm & bracket assembly	
213-53S	Idle solenoid assembly	

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

** Parts are available in Zip Kit only*

1971 "V8"
CHRYSLER-C - DODGE-D, W
PLYMOUTH-P, R
BARRACUDA-B - CHALLENGER-J
DODGE TRUCK D-1, D-2, D-3, W-2

BBD DUAL DOWN-DRAFT CLIMATIC CONTROL **CARBURETORS NOS. 4961S – 4962S – 4964S**

MODEL		ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
B, C, D, J, P, R, W, TRK. D-1, W-1 (E.C.S.)	S/T	383	4961S	4961S	902-281A
B, C, D, J, P, R, W, TRK. D-1, W-1 (E.C.S.)	A/T	383	4962S	4962S	902-281A
B, C, D, J, P, R, W (EXPORT)	ALL/T	383	4964S	4964S	902-281A

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THRO. BORE	C.F.M.	CHOKE SETTING	FLOAT SETTING	FAST IDLE LINKAGE	FAST IDLE R.P.M.	UNLOADER	BOWL VAPOR VENT	CHOKE DIAPH. LINKAGE
4961S	1-9/16	365	2 RICH	11/32	9/64	1700	1/4	3/16	5/32
4962S	1-9/16	365	2 RICH	11/32	9/64	1700	1/4	3/16	9/64
4964S	1-9/16	365	2 RICH	11/32	9/64	1700	1/4	1/32	9/64

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug Gap .035"	Breaker Point Setting .014"–.019"	Ignition Timing See Decal In Engine Compartment	Idle Mixture Screw Limiter Cap Type (Except 4964)	Idle RPM See Decal In Engine Compartment

Carter Carburetor Division acf

St. Louis, Missouri 63107 U.S.A.

Printed in U.S.A.

Form 5563A

CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFIC SETTINGS

FLOAT LEVEL: Clearance as specified between top of each float ridge (at free end of float) and top surface of body casting. To adjust, bend lip on float arm.

PUMP: 1 inch from top of the bowl cover to the top of the plunger shaft. Install throttle connector rod in outer hole (long stroke) of throttle lever (with throttle set at curb idle). To adjust, bend throttle connector rod. When throttle connector rod is installed in a different hole for seasonal operation the bowl vapor vent must be readjusted.

FAST IDLE LINKAGE: With fast idle screw on second step and against shoulder of first step of cam. Adjust tang on choke lever to give specified clearance between top edge of choke valve and inner wall of air horn.

FAST IDLE ON CAR: With fast idle screw on second step and against shoulder of first step of cam, adjust screw to specified R.P.M.

UNLOADER: Specified dimension between top edge of choke valve and inner wall of air horn with throttle valve wide open. To adjust, bend unloader tang on fast idle arm.

BOWL VAPOR VENT (NON-E.C.S.): With throttle valves set at curb idle, the dimension between the rubber grommet and its seat on the bowl cover at smallest opening should be as specified. To adjust bend lip on vapor vent arm. If the pump has been changed — readjust.

BOWL VAPOR VENT (E.C.S.): With throttle valves set at curb idle, the dimension between tip of grommet and top of bowl cover should be as specified. To adjust bend vent lifter arm. If the pump has been changed — readjust.

CHOKE DIAPHRAGM LINKAGE ADJUSTMENT: With vacuum diaphragm (plate and stem) bottomed, close choke valve as far as possible without forcing. Adjust connector rod to give dimension as specified between top edge of choke valve and inner wall of air horn. Remove connector rod to adjust, to prevent damage to rod and diaphragm.

CHOKE ADJUSTMENT (CROSS OVER TYPE) 1. Loosen mounting post lock nut and turn mounting post with screw driver until index mark on disk is positioned as listed on carburetor specification page. Hold in this position with screw driver and tighten lock nut. NOTE: Screw driver may be held in vise so that one hand may be used to support housing while tightening nut. 2. After adjustment is completed and coil housing and rod assembly and carburetor is installed on engine lift cover disk and open and close choke valve manually to see if connector rod clear sides of hole in housing cover. If rod does not clear hole in housing cover without binding replace with a new unit since connector rod cannot be bent without affecting calibration.

PARTS LIST

Part No.	PART NAME	
1A-152	Flange gasket (4964)	
1A-317	Flange gasket (4961, 62)	
2-305	Throttle valve	(2)
3-1722S	Throttle shaft & lever assy. (4961, 62)	
3-1813S	Throttle shaft & lever assy. (4964)	
7-304	Choke valve	
14-850S	Choke lever assembly	
14-906S	Choke lever & shaft assembly	
20-146	Step-up piston gasket	
20-203	Needle seat gasket	
20-262	Hot idle valve gasket (4961, 62)	
21-196S	Float & lever assembly	
24-23	Float lever pin	
25-1003S	Needle & seat assembly (flared tip)	
30A-203	Idle mixture screw	(2)
53A-426S	Pump arm & countershaft assy. (4964)	
53A-470	Loose lever (4964)	
61-58	Idle & fast idle speed screw spring	
61-178	Step-up piston spring (4961)	
61-208	Idle speed screw spring (use 61-58)	
61-451	Pump spring (use 61-939)	
61-484	Step-up piston spring (4962)	
61-873	Idle mixture screw spring	(2)
61-939	Pump spring	
63-252	Float lever pin retainer	
63-336	Fast idle connector rod retainer	
64-210S	Pump plunger & rod assy. (use 64-420S)	
64-420S	Pump plunger & rod assembly	
65-62	Cover plate (4961, 62)	
65-63	Cover plate (4961, 62)	
75-1843	Step-up rod (.036"x.040") (4961, 64)	(2)
75-1880	Step-up rod (.041"x.037") (4962) (use 75-1881)	(2)
75-1881	Step-up rod (.042"x.039") (4962)	(2)
96-36	Idle mixture screw limiter cap (4961, 62) (use 96-40)	
96-40	Idle mixture screw limiter cap (4961, 62)	(2)
101-6	Pump arm clamp screw (4964)	
101-296	Fast idle speed screw	
101-307S	Air horn screw assy. (4961, 62-6) (4964-8)	
101-362S	Body flange screw assembly	(4)
101-419	Throttle valve screw	(4)
101-428	Choke diaphragm bracket screw	(2)
101-442S	Cover plate screw (4961, 62)	(2)
101-466	Step-up piston plate screw	
101-558	Choke valve screw	(2)
101-560	Cover plate screw	(2)
101-563	Idle speed screw (4961, 62)	
101-565	Fast idle cam screw	
101-593	Venturi cluster screw (4961, 64)	(2)
101-568	Venturi cluster screw (4962)	(2)
101-655	Idle speed screw (4964)	
103-14	Lead shot	
103-15	Lead shot	(2)
103-20	Lead shot	(2)
111-82	Pump arm (4964)	
115-300	Throttle connector rod	
115-395	Choke diaphragm rod	
115-466	Fast idle connector rod (use 115-530)	
115-530	Fast idle connector rod	
116-13	Pump discharge check ball	
116-18	Pump intake check ball	
118-294S	Venturi cover assembly	
120-437S	Main metering jet assembly (590cc)	(2)
121-307	Venturi housing gasket	
121-560	Venturi cover gasket	
121-660	Body flange gasket	
121-694	Body gasket	
136-187	Pump spring retainer washer	
136-299	Throttle shaft spring washer (4961, 62)	
145-303	Choke diaphragm hose	
150A-10	Pin spring	
150A-21	Choke diaphragm pin spring	
160-292S	Step-up piston & plate assembly	
164-22	Grommet seal	
169-151S	Hot idle valve assembly (4961, 62)	
170BC-223S	Thermostatic coil housing & rod assy. (4961, 62)	
170BC-233S	Thermostatic coil housing & rod assy. (4964)	
172-43	Cable clip (4961, 62)	
181-426	Fast idle cam	
202-337S	Choke diaphragm & bracket assembly	
214-56U	Unitized pkg. (consists of 101-685, 105A-78, 183-117, 183-118, 214-56) (4961, 62)	

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

1971 "V8"

BARRACUDA B - CHALLENGER J

DART L - VALIANT V

TQ FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL **CARBURETORS Nos. 4972S — 4973S**

MODEL		ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP FIT NO.
B, J, L, V	S/T	340	4972S	6138S	902-292
B, J, L, V	A/T	340	4973S	6139S	902-292

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	C.F.M.	VACUUM SPARK PORT	CHOKE SETTING	FLOAT LEVEL	PUMP	FAST IDLE LINKAGE	FAST IDLE R.P.M.	UN-LOADER	BOWL VAPOR VENT	CHOKE DIAPH. LINKAGE
4972S	1-3/8 (P) 2-1/4 (S)	800	ABOVE VALVE	2 RICH	1"	1/2	7/64	2000	3/16	27/32	7/64
4973S	1-3/8 (P) 2-1/4 (S)	800	ABOVE VALVE	2 RICH	1"	1/2	7/64	2000	3/16	27/32	7/64

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug Gap .035"	Breaker Point Setting .014"-.019"	Ignition Timing See Decal in Engine Compartment	Idle Mixture Screw Limiter Cap Type	Idle R.P.M See Decal in Engine Compartment

Carter Carburetor Division acf

St. Louis, Missouri 63107 U.S.A.

Printed in U.S.A.

Form 5564B

CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFIC SETTINGS

FLOAT LEVEL: With bowl cover inverted, gasket installed and floats resting on seated needle, the dimension of each float from bowl cover gasket to bottom side of float at outer end should be as specified. To adjust bend lever. NOTE: NEVER ALLOW LIP OF FLOAT TO BE PRESSED AGAINST NEEDLE WHEN ADJUSTING.

PUMP: With throttle valves tightly closed install throttle connector rod in center hole of pump arm. The dimension from top of bowl cover to top of plunger shaft should be as specified. To adjust bend throttle connector rod.

SECONDARY THROTTLE LEVER: With choke valve and primary throttle valves wide open, the pin on secondary throttle shaft should contact stop on casting. NOTE: When properly adjusted secondary throttle valves will be a few degrees from wide open. To adjust bend throttle operating rod.

SECONDARY THROTTLE LEVER LOCK IN: With choke valve held wide open, slowly open primary throttle valves, so that lip engages tang of lock in dog. To adjust bend rear tang, on fast idle arm.

FAST IDLE LINKAGE: With Fast idle screw on second step and against shoulder of first step of cam, close choke valve as far as possible. There should now be specified clearance between lower edge of choke valve and inner wall of air horn. To adjust, bend connector rod.

UNLOADER: Specified clearance between lower edge of choke valve and inner wall of air horn, with throttle wide open. to adjust bend front tang on fast idle arm.

AIR VALVE OPENING: With air valve wide open there should be 15/32 inch between choke valve wall (Not piston link assembly) and upper inner edge of air valve. To adjust bend bend air valve at slot.

AIR VALVE DIAPHRAGM: With diaphragm stem fully depressed and air valve closed, adjust diaphragm connector rod to give .040 between air valve and stop.

CHOKE DIAPHRAGM LINKAGE: With vacuum diaphragm bottomed, close choke valve as far as possible without forcing. Adjust tang on choke lever to give specified clearance between lower edge of choke valve and inner wall of air horn.

AIR VALVE SPRING: 1. Loosen lock plug. Rotate adjustment plug clockwise to allow air valve to position its self wide open. 2. Check to see that air valve and shaft are operating freely. 3. To adjust, rotate adjustment plug counterclockwise until air valve just contacts stop, then turn 1/2 additional turn. While holding adjustment plug in this position, tighten lock plug.

BOWL VAPOR VENT: With throttle valves set at curb idle, remove plug from air horn and insert a narrow ruler in hole. Rest ruler lightly on top of valve. The dimension from top of valve to top of casting should be as specified. To adjust bend operating lever.

FAST IDLE ON CAR: With fast idle screw on second step and against shoulder of first step of cam. Adjust fast idle screw to specified R.P.M.

PARTS LIST

Part No.	PART NAME	
1A-337	Flange gasket	(2)
7-316	Choke valve	
7-321	Air valve	
11B-223	Bowl vent plug	
11B-487	Air valve adjustment plug	
11B-488	Air valve lock plug	
13-300S	Choke shaft and lever assy.	
13-301S	Air valve shaft & lever assy.	
14-943	Choke adjusting lever	
14-944	Choke countershaft lever	
15-57	Fuel inlet fitting	
16-655	Step-up rod (.062" x .040") Std.	(2)
17-70	Pump discharge check needle	
20-239	Needle seat gasket	(2)
20-243	Fuel inlet fitting gasket	
20-262	Hot idle valve gasket	
21-249S	Float assy.	(2)
24-15	Float lever pin	(2)
25-1086S	Needle and seat assy.	(2)
30A-207	Idle mixture screw	(2)
48-365S	Pump jet and housing assy.	
51-87	Throttle shaft collar	
51-88	Choke shaft collar	
53A-518S	Pump operating lever assy.	
53A-520S	Fast idle operating arm	
53A-523	Bowl vent arm	
53A-526S	Bowl vent operating lever	
53A-527	Bowl vent operating arm	
61-84	Fast idle & idle speed screw spring	(2)
61-716	Choke lever spring (4972)	
61-761	Pump spring upper	
61-800	Choke lever spring (4973)	
61-886	Air valve spring	
61-873	Idle mixture screw & solenoid speed screw spring	(3)
61-889	Pump spring lower (use 63-426S)	
61-912	Bowl vent arm spring	
61-915	Vacuum piston spring (4973)	
61-928	Vacuum piston spring (4972)	
63-336	Connector rod retainer	(5)
63-397	Intake disc check retainer (use 63-426S)	
63-398	Intake disc check seat (use 63-426S)	
63-426S	Pump intake check assy.	
64-417S	Pump plunger assy. (use 64-436U)	
64-436U	Unitized package (consists of 1—63-426S, 1—64-432S)	
65-68	Step-up piston cover plate	
65-69	Step-up rod cover plate (L-H)	
65-74	Step-up rod cover plate (R-H)	
96-36	Idle mixture screw limiter cap	(2)
101-387	Idle speed screw	

Part No.	PART NAME	
101-421	Pump arm screw	
101-505	Choke diaphragm bracket screw	
101-596	Choke & air valve screw	(4)
101-616	Bowl cover screw	(8)
101-617	Cover plate screw	(3)
101-618	Pump jet housing	
101-629	Solenoid operating lever screw	
101-634	Choke countershaft lever screw	
101-635	Bowl vent operating arm screw	
101-637	Fast idle speed screw	
101-638	Choke lever screw (USE 101-670)	
101-646	Primary throttle valve screw (use 101-663)	(4)
101-657	Bowl cover screw	(2)
101-663	Primary & Secondary throttle valve screw	(8)
101-667	Fast idle operating lever screw	
101-670	Choke Lever Screw	
111-76	Pump arm	
113-99S	Choke countershaft & lever assy.	
114-192	Choke lever	
115-491	Choke diaphragm connector rod (USE 115-522	
115-492	Throttle operating rod	
115-495	Choke connector rod	
115-500	Bowl vent connector rod	
115-507	Fast idle connector rod	
115-508	Throttle connector rod	
115-522	Choke diaphragm connector rod.	
117-190	Pump connector link	
120-3074	Primary metering jet	(2)
120-3125	Secondary metering jet	(2)
121-662	Pump jet housing gasket	
121-679	Air horn gasket	
121-686	Body flange gasket	
136-300	Throttle shaft spring washer	
136-308	Choke diaphragm connector rod washer	
145-304	Choke diaphragm hose	
145-406	Pump passage tube	
150A-14	Pin spring	
150A-21	Pin spring	
160-315S	Step-up piston and link assy.	
164-30	Grommet seal	
169-147	Intake check (use 63-426S)	
169-153S	Hot Idle valve assy.	
170-148	Thermostatic coil & housing assembly	
170BA-148S	Thermostatic coil housing and rod assy (use 170-148)	
184-118	Vacuum tube cap	
186-156	Secondary baffle plate	
202-407S	Choke diaphragm & bracket assy. (4973)	
202-414S	Choke diaphragm & bracket assy. (4972)	

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

1971 "6"

DODGE TRUCK

BBS DOWN-DRAFT CLIMATIC CONTROL AND MANUAL CHOKE CARBURETORS NOS. **6025S – 6026S**
6027S – 6116S

MODEL		ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
D-1, W-1 (E.C.S.)	S/T	225	6025S	6025S	902-278
D-1, W-1 (E.C.S.)	A/T	225	6026S	6026S	902-278
D-2, 3, P-2, 3, 4; W-2, 3	S/T	225	6027S	6027S	902-277
D-4, 5, W-5, S-5, L-6	S/T	225	6116S	6116S	902-277

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THRO. BORE	C.F.M.	CHOKE SETTING	FLOAT SETTING	PUMP	BOWL VAPOR VENT	FAST IDLE LINKAGE	UNLOADER	CHOKE DIAPH. LINKAGE	DASHPOT
6025S	1-11/16	163	2 RICH	1/4	5/16	17/64	5/64	3/16	7/64	See ADJ.
6026S	1-11/16	163	2 RICH	1/4	5/16	17/64	5/64	3/16	7/64	–
6027S	1-11/16	163	2 RICH	1/4	1/32	1/32	5/64	3/16	7/64	–
6116S	1-11/16	163	MANUAL	1/4	1/32	1/32	5/32	–	–	–

MOTOR TUNE-UP – BE ACCURATE!

Spark Plug	Breaker Point Setting	Idle Mixture Screw
.035"	.020"	Limiter Cap Type

Carter Carburetor Division acf

Printed in U.S.A.

St. Louis, Missouri 63107 U.S.A.

Form 5561

CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFIC SETTINGS

FLOAT LEVEL: Clearance as specified between top of each float ridge (at center of float) and top surface of body casting. To adjust, bend lip of float arm.

PUMP AND BOWL VENT (NON-E.C.S.): With throttle connector rod in lower hole of throttle lever and plunger pin spring, in bottom hole, and groove of plunger rod (throttle valve set at curb idle). Adjust connector rod to give specified clearance between pump plunger washer and bushing. NOTE: Change plunger pin spring in accord with pump stroke.

PUMP (E.C.S.): With throttle connector rod in lower hole of throttle lever and throttle valve set at curb idle, adjust connector rod to give specified dimension between top of pump plunger shaft and shoulder of air horn.

BOWL VENT (E.C.S.): With throttle valve set at curb idle there should be specified dimension from bowl cover to top of vent valve shaft. To adjust bend lower tang on vent valve operating arm.

FAST IDLE LINKAGE: (Manual Choke) — With fast idle screw on cam index; (Automatic choke) with fast idle screw on second step and against shoulder of first step of cam, adjust choke connector rod to give specified clearance between top edge of choke valve and inner wall of air horn.

FAST IDLE ON CAR: (Manual Choke): With fast idle screw on cam index; (Automatic Choke) with fast idle screw on second step and against shoulder of first step of cam, adjust screw to specified R.P.M.

UNLOADER: Specified dimension between top edge of choke valve and inner wall of air horn with throttle valve wide open. To adjust, bend unloader arm on throttle lever.

CHOKE DIAPHRAGM LINKAGE ADJUSTMENT: With vacuum diaphragm plate (not stem) bottomed, close choke valve as far as possible without forcing. Adjust connector rod to give specific clearance between top edge of choke valve and inner wall of air horn. Remove connector rod to adjust to prevent damage to rod and diaphragm.

DASHPOT ADJUSTMENT: Position throttle lever to obtain 2000 R.P.M. Adjust Dashpot so that stem just contacts tang on throttle lever.

CHOKE ADJUSTMENT (Cross Over Type): 1. Loosen mounting post lock nut and turn mounting post with screwdriver until index mark on disk is positioned as listed under carburetor specifications. Hold in this position with screwdriver and tighten lock nut. NOTE: Screwdriver may be held in vise so that one hand may be used to support housing while tightening nut. 2. After adjustment is completed and coil housing and rod assembly and carburetor is installed on engine lift cover disk and open and close choke valve manually to see if connector rod clears side of the hole in housing cover. If rod does not clear hole in housing cover without binding, replace with a new unit since connector rod cannot be bent without effecting calibration.

PARTS LIST

Part No.	PART NAME	
1A-153	Flange gasket W/O Gov.	(6027, 6116)
1A-157	Flange gasket W/Gov.	(6116)
1A-315	Flange gasket	(6025, 26)
2-301	Throttle valve	(6025, 26)
2-307	Throttle valve	(6027, 6116)
3-1681S	Throttle shaft & lever assy.	(6025, 26, 27)
3-1703S	Throttle shaft & lever assy.	(6116)
7-195S	Choke valve assy.	(6116)
7-199	Choke valve	(6025, 26, 27)
11B-35	Rivet plug	
11B-79	Rivet plug	(6)
11B-108	Pump jet rivet plug	
11B-220	High speed passage rivet plug	
11B-303	Rivet plug	
14-870S	Choke lever & shaft assy.	(6116)
14-920S	Choke lever & shaft assy.	(6025, 26, 27)
20-146	Step-up piston gasket	
20-203	Needle seat gasket	
20-262	Hot idle valve gasket	(6025, 26)
21-222S	Float and lever assembly	
24-23	Float lever pin	
25-1020S	Needle seat assy. (flared tip)	
30A-197	Idle mixture screw	
38A-117	Pump plunger bushing	(6027, 6116)
48-194	Pump jet	(6027, 6116)
48-219	Pump jet	(6025, 26)
53A-372	Pump arm	(6025, 26)
53A-450	Pump arm	(6027, 6116)
53A-494	Vent arm	(6025, 26)
61-58	Idle & fast idle speed screw spring	(2)
61-538	Step-up piston spring	
61-653	Pump spring	(6025)
61-761	Pump spring	(6026, 27, 6116)
61-866	Choke pull-back spring	(6116)
61-873	Idle mixture screw spring	
62-282	Hose clamp	(6025, 26)
62-286S	Choke tube clamp assy.	(6116)
63-169	Float lever pin retainer	
63-282	Vent valve retainer	(6025, 26)
63-395	Pump spring retainer	(6025, 26)
64-226S	Pump plunger assy.	(6027, 6116)
64-403S	Pump plunger assy.	(6025, 26)
65-62	Cover plate	(6025, 26)
75-1844	Step-up rod (.037"x.032")	(6025)
75-1845	Step-up rod (.039"x.035")	(6026)
75-1884	Step-up rod (.039"x.030")	(6116)
75-1897	Step-up rod (.036"x.032")	(6027)
96-36	Idle mixture screw limiter cap	

Part No.	PART NAME	
101-296	Idle speed screw	
101-307S	Bowl cover screw assy.	(2)
101-318	Pump arm screw	
101-359S	Air horn screw assy. (6025-3) (all others-4)	
101-374	Step-up piston plate guide screw	
101-490	Fast idle speed screw	(6116)
101-473	Fast idle cam screw	
101-537	Choke diaphragm bracket screw	(2)
101-544S	Dashpot bracket screw assy. (6025)	
101-558	Choke valve screw	(2)
101-560	Choke plate screw (6025, 26)	
101-614	Fast idle speed screw (6025, 26, 27)	
101-633	Throttle valve screw	(2)
105A-60	Dashpot lock nut (6025)	
115-347	Throttle connector rod (6027, 6116)	
115-370	Choke connector rod	
115-398	Choke diaphragm connector rod (6025, 26, 27)	
115-456	Throttle connector rod (6025, 26)	
116-13	Pump intake & discharge check ball	(2)
120-428S	Main metering jet assy. Std. (475cc) (6025)	
120-429S	Main metering jet assy. Std. (475cc) (6026, 6116)	
120-447S	Main metering jet Std. (448cc) (6027)	
121-656	Body flange gasket	
121-696	Body gasket (6027, 6116)	
121-697	Body gasket (6025, 26)	
123-74S	Idle orifice tube assy. (6027, 6116)	
123-92S	Idle orifice tube assy. (6025, 26)	
136-218	Pump plunger washer (6027, 6116)	
145-285	Main vent tube	
145-294	Choke diaphragm hose	(6027)
145-413	Bowl vent hose (6025, 26)	
150A-10	Pin spring	
150A-21	Pin spring	
150A-22	Pump plunger pin spring (6027, 6116)	
160-302S	Step-up piston & plate assy.	
169-154S	Hot idle valve assy. (6025, 26)	
170BQ-135S	Thermostatic coil housing and rod assy. (6025, 26)	
170BQ-136S	Thermostatic coil housing and rod assy. (6116)	
180-182	Dashpot bracket (6025)	
181-307	Fast idle cam	(6116)
181-350	Fast idle cam (6025, 26, 27)	
202-152S	Dashpot assembly	(6025)
202-336S	Choke diaphragm & bracket assy. (6027)	
202-346S	Choke diaphragm and bracket assembly (6025, 26)	

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