

1971 CHRYSLER PERFORMANCE CARBURETOR AND OFF ROAD VEHICLES

TQ FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL CARBURETOR NO. 9801S

CARB.	ENGINE DISPL.	C.F.M.	ZIP KIT NO.	STRIP KIT NO.
9801S AT	383	800	902-318	10-114

CARBURETOR ADJUSTMENTS

FLOAT LEVEL: With bowl cover inverted, gasket installed and float resting on seated needle, the dimension of each float at outer end should be 29/32. 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.

SECONDARY LOCK-IN: Apply light pressure downward on the fast idle screw to move choke control lever to the wide open choke position. The dimension between lock-in lever and top of secondary lever should be .075 inch. To adjust, bend tang on fast idle arm.

AIR VALVE SPRING:

1. Loosen lock plug. Rotate adjustment plug (inner) clockwise to allow air valve to position itself 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 stop. Then turn two additional number of turns, while holding the adjustment plug in this position tighten lock plug.

ACCELERATOR PUMP:

STEP 1: Turn the idle speed screw inward until it just touches the stop on throttle lever, then turn in two (2) more turns. With the throttle connector rod installed in the inner hole of pump arm, the dimension from bottom of "S" link to top of bowl cover should be 11/32 inch. To adjust, bend connector rod.

STEP 2: Open throttle slowly until the secondary throttle lock-in latch just contacts tang. Hold in this position. Measure again from the bottom of "S" link to top of bowl cover the dimension should be 5/32 inch. To adjust, bend tang on throttle lever.

BOWL VENT: Remove the rivet plug from air horn. With the idle speed screw in same position as for the accelerator pump

adjustment, hold throttle closed. The dimension from top of valve to top of casting should be 13/16 inch. To adjust, bend operating lever. Install a new plug and tap it lightly.

CHOKE CONTROL LEVER: Close choke valve by pushing on choke lever, with throttle partially open. The vertical dimension from top of rod hole to base of carburetor should be 3-15/32 inch. To adjust, bend rod.

DIAPHRAGM CONNECTOR ROD: Seat the diaphragm by using an outside source of vacuum, or by pressing downward on end of diaphragm stem. The dimension between air valve and stop on casting should be .040 inch. To adjust, bend diaphragm connector rod.

FAST IDLE CAM. INDEX LINKAGE: Place fast idle screw on second step of cam. Move choke valve toward the closed position, by applying a light pressure to choke lever. The dimension between lower edge of choke valve and wall of air horn should be 7/64 inch. To adjust, bend fast idle rod.

CHOKE PULL-OFF: Seat diaphragm by using an outside source of vacuum or by pressing downward on diaphragm stem. Apply a light pressure on choke lever to move choke valve toward the closed position. The dimension between lower edge of choke valve and wall of air horn should be 5/32 inch. To adjust, bend slotted choke lever.

UNLOADER: With throttle valves wide open and choke valve moved toward the closed position by applying a light closing pressure to choke lever. The dimension between lower edge of choke valve and wall of air horn should be 5/16 inch. To adjust, bend tang on fast idle arm.

ELECTRIC CHOKE SETTING: Rotate cover against spring tension until mark on thermostat cover is two notches rich.

**Carter
Carburetor
Division**

PARTS LIST

PART NO.	PART NAME	PART NO.	PART NAME
*1A-337	Flange gasket	75-2110	Metering rod (.069"x.053"x.040") (2)
*11B-294	Bowl vent plug	*101-6	Coil housing screw (3)
*11B-487	Air valve adjustment plug	*117-190	Pump connector link
*11B-488	Air valve lock plug	120-4095	Primary metering jet (2)
*17-70	Pump discharge check needle	120-5125S	Secondary metering jet (2)
*20-43	Piston housing gasket	*121-500	Coil housing gasket
*20-243	Fuel inlet fitting gasket	121-662	Pump jet housing gasket
21-252S	Float assembly (2)	*121-689	Body flange gasket
*25-1086S	Needle and seat assembly (2)	*121-823	Air horn gasket
30A-221	Idle mixture screw (2)	*121-824	Air filter gasket
*61-84	Fast idle speed screw spring	*136-308	Choke diaphragm connector rod washer
*61-873	Idle mixture screw spring (3)	*145-304	Choke diaphragm hose
*61-886	Air valve spring	*145-406	Pump passage tube
*61-912	Bowl vent arm spring	*150A-14	Pin spring
*61-956	Idle speed screw spring	*163-131	Quad X ring (2)
*61-966	Pump spring (upper)	*164-30	Grommet seal
*63-336	Retainer (6)	170-1322U	Thermostatic coil and housing assembly
*63-426S	Intake check retainer assembly	170-1324S	Coil housing & lever assembly
*64-439S	Pump plunger assembly	202-665S	Choke diaphragm & bracket assembly

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. 902-318 only.

All other parts not listed are available on special factory order only.

1970-74 "8"

DODGE TRUCK - MOBILE HOME

BBD DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOS. 4827S - 6169S-SA -
6225S - 6367S - 6540S - 8004S

MODEL			ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1970-1971	(Early) M-3, 4	A/T	318-3	4827S	4827S	902-294
1971	(Late) M-3, 4	A/T	318-3	6169S-SA	6169SA	902-294
1972	M-3	A/T	318-3	6225S	6225S	902-294
1973	M-3 E.C.S.	A/T	318-3	6367S	6367S	902-306
1973	M-3 E.C.S.	A/T	318-3	8004S	8004S	902-306
1974	R-3, 4	A/T	318-3	6540S	6540S	902-306

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.	UNLOADER
4827S	1-7/16	275	2 Rich	1/4	1/32	3/32	1700	1/4
6169S-SA	1-7/16	275	2 Rich	1/4	1/32	3/32	1800	1/4
6225S	1-7/16	275	2 Rich	1/4	1/32	3/32	1800	1/4
6367S	1-7/16	275	2 Rich	1/4	13/64	3/32	1700	1/4
6540S	1-7/16	275	2 Rich	1/4	13/64	3/32	1700	1/4
8004S	1-7/16	275	2 Rich	1/4	13/64	3/32	1700	1/4

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug .035"	Idle Mixture Screw Limiter Cap Type
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Carter
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Division

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: (Non E.C.S.) Install pump connector rod in center hole (Exc. 6169S-SA, outer hole) 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 hold of throttle lever, inner slot 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 choke 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.

PARTS LIST

Part No.	PART NAME	Part No.	PART NAME
1A-222	Flange gasket (4827)	101-543S	Body flange screw assembly (use 101-680S) (2)
1A-333	Flange gasket (6169, A, 6225, 6367, 6540, 8004)	101-544S	Body screw assembly (2)
2-304	Throttle valve (2)	101-558	Choke valve screw (brass) (2)
3-1695S	Throttle shaft and lever assembly (4827, 6169, A) (Use 3-1848S)	101-563	Fast idle speed screw
3-1848S	Throttle shaft and lever assembly (All exc. 6540)	101-565	Fast idle cam screw
3-1893S	Throttle shaft and lever assembly (6540)	101-686	Venturi cluster screw (4827) (6169 Use 101-679) (6225 Use 101-686) (2)
7-172	Choke valve	101-596	Choke valve screw (steel) (2)
14-926	Choke shaft lever	101-615	Bowl vent cover plate screw (6367, 8004)
14-927S	Choke piston lever link & shaft assembly (4827)	101-679	Venturi cluster screw (6169, A) (2)
14-970S	Choke piston, lever, link & shaft assembly (6169, A, 6225, 6367, 6540)	101-680S	Body flange screw assembly (2)
14-1014S	Choke piston, lever, link and shaft assembly (8004)	101-686	Venturi cluster screw (6225, 6367, 6540, 8004) . . (2)
20-146	Step-up piston gasket	103-14	Lead shot
20-203	Needle seat gasket	103-15	Lead shot (2)
21-235S	Float assembly	103-20	Lead shot (2)
24-23	Float pin	108-94	Choke connector rod spacer
25-1003S	Needle and seat assembly (flared tip needle)	115-265	Throttle connector rod (all exc. 6367, 6540, 8004)
30A-198	Idle mixture screw (2)	115-409	Choke connector rod
38A-117	Pump plunger bushing (all exc. 6367, 6540, 8004)	115-424	Throttle connector rod (6367, 8004)
47-30	Choke welsh plug	115-539	Choke connector rod (6540)
51-96	Throttle shaft collar (6540)	115-551	Throttle connector rod (6540)
53A-448	Pump arm (all exc. 6367, 6540, 8004)	116-13	Pump discharge check ball
53A-547	Pump arm (6367, 6540, 8004)	116-18	Pump intake check ball
61-58	Idle and fast idle speed screw spring (2)	118-275S	Venturi cover assembly (Use 118-318S)
61-538	Step-up piston spring (all exc. 6367, 8004)	118-318S	Venturi cover assembly
61-553	Pump spring (all exc. 6367, 8004)	120-300S	Main metering jet assembly (340CC) (Std.) (6225) . (2)
61-873	Idle mixture screw spring (2)	120-430S	Main metering jet assembly (404CC) (Std.) (4827 Use 120-440S) (2)
61-940	Bowl vent spring (6367, 8004)	120-440S	Main metering jet assembly (383CC) (Std.) (4827, 6169, A) (2)
61-942	Pump spring (6367, 6540, 8004)	120-862S	Main metering jet assembly (.062") (Std.) (6367) . (2)
61-967	Step-up piston spring (6367, 6540, 8004)	120-865S	Main metering jet assembly (.065") (6540) (2)
61-1015	Throttle return spring (6540)	120-866S	Main metering jet assembly (.066") (8004) (2)
63-238	Float pin retainer	121-78	Coil housing gasket
63-282	Plunger retainer (6367, 6540, 8004)	121-285	Venturi housing gasket
63-298	Coil housing retainer (3)	121-531	Body flange gasket
63-336	Retainer (2)	121-561	Venturi cover gasket
63-361	Plunger retainer (all exc. 6367, 6540, 8004)	121-659	Bowl vent cover plate gasket (6367, 8004)
64-371S	Pump plunger assembly (all exc. 6367, 8004)	121-666	Body gasket
64-413S	Pump plunger assembly (6367, 6540, 8004)	136-191	Pump plunger washer (6367, 6540, 8004)
65-64	Bowl vent cover (6367, 6540, 8004)	136-218	Pump plunger washer (all exc. 6367, 8004)
75-1723	Step-up rod (.27"x.025") (6225; 6540) (6367 Use 75-2016)	150A-10	Pin spring (2)
75-1848	Step-up rod (.034"x.027") (4827) (6169 Use 75-1895)	160-290S	Step-up piston and plate assembly (all exc. 6540)
75-1849	Step-up rod (.031"x.0275") (6225 Use 75-1723)	160-338S	Step-up piston and plate assembly (6540)
75-1895	Step-up rod (.026"x.027") (6169, A) (2)	169-144	Bowl vent valve (6367, 8004)
75-2016	Step-up rod (.026"x.024") (6367, 8004) (2)	170-1133	Thermostatic coil assembly (all exc. 4827)
96-36	Idle mixture screw limiter cap (use 96-40)	170-1145	Thermostatic coil assembly (4827)
96-40	Idle mixture screw limiter cap (2)	170P-776S	Thermostatic coil housing assembly (4827) (Use 170-1145)
101-65	Choke shaft lever screw	170BM-212S	Thermostatic coil housing assembly (all exc. 4827) (Use 170-1133)
101-70	Pump arm screw (all exc. 6367, 8004)	181-415	Fast idle cam (6169, A, 6225, 6367, 8004)
101-136	Coil housing screw (3)	181-416	Fast idle cam (4827)
101-296	Idle speed screw	181-465	Fast idle cam assembly (6540)
101-307S	Air horn screw assembly (4)	186-44	Choke baffle (4827)
101-318	Pump arm screw (6367, 6540, 8004)	186-126	Choke baffle plate (all exc. 4827)
101-374	Step-up piston plate screw	186-149	Fuel bowl baffle plate
101-419	Throttle valve screw (4)		

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

CARTER.

FORM 5553C
November, 1969
Revised September, 1972

1970-73 "8" DODGE TRUCK

BBD DOWN-DRAFT MANUAL CHOKE CARBURETORS NOS. 4828S — 4829S — 4830S — 6228S — 6229S — 6230S — 6368S

MODEL	ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1970-71 C-5, 6, 7; D-5, 6, 7; L-6, 7 (1971 — CT-8) M/T	361-2 361-3	4828S	4828S	902-294
1970-71 S-6 M/T	361-2	4829S	4829S	902-294
1970-71 S-6 A/T	361-2	4830S	4830S	902-294
1972-73 D-6, 8; C6, 8; CT-8; (FCB-9-1972) 1972-M/T; 1973 ALL/T	361-2, 3	6228S	6228S	902-294
1972-73 S-C 1972-M/T; 1973 ALL/T	361-2, 3	6229S	6229S	902-294
1972 S-6 (Allison Tr.) A/T	361-2	6230S	6230S	902-294
1973 D-6, 8, C6, 8, CT8 (CALIF) E.C.S. ALL/T	361-3	6368S	6368S	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.
4828S-6228S	1-7/16	275	MANUAL	1/4	1/32	CLOSED	1900
4829S-6229S	1-7/16	275	MANUAL	1/4	1/32	CLOSED	1900
4830S-6230S	1-7/16	275	MANUAL	1/4	1/32	CLOSED	1900
6368S	1-7/16	275	MANUAL	1/4	13/64	CLOSED	1900

MOTOR TUNE-UP — BE ACCURATE!

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



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: NON, E.C.S. (1970-71) Install pump connector rod in center hole of throttle lever, inner hole of pump arm, and plunger retainer in center groove of plunger rod. (1972-73) Install pump connector rod in outer hole of throttle lever, inner hole of pump arm, and plunger retainer in lower groove. With throttle valves set at curb idle adjust pump connector rod to give specified dimension between pump plunger washer and 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 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	Part No.	PART NAME
1A-334	Flange gasket	101-419	Throttle valve screw (4)
2-303	Throttle valve (4828, 6228, 6368) (2)	101-428	Choke tube bracket screw (2)
2-304	Throttle valve (4829, 30, 6229, 30) (2)	101-543S	Body flange screw Assy. (Use 101-680S) (2)
3-1735S	Throttle shaft & lever Assy. (4828, 29, 6228, 29, 6368)	101-544S	Body screw assembly (2)
3-1739S	Throttle shaft & lever Assy. (4830, 6230)	101-558	Choke valve screw (brass) (2)
7-172	Choke valve	101-563	Idle speed screw
14-914S	Choke lever & shaft assembly	101-565	Fast idle cam screw
14-923	Choke lever	101-569	Venturi cluster screw (4828, 6228) (2)
14-925S	Choke lever assembly	101-570	Venturi cluster screw (6229, 30) (2)
20-146	Step-up piston gasket	101-593	Venturi cluster screw (4829, 30) (2)
20-203	Needle seat gasket	101-596	Choke valve screw (steel) (2)
21-235S	Float assembly	101-614	Fast idle speed screw
24-23	Float pin	101-615	Bowl vent cover plate screw (6368) (3)
25-1003S	Needle & seat assembly (flared tip)	101-680S	Body flange screw assembly (2)
30A-198	Idle mixture screw (2)	101-686	Venturi cluster screw (6368) (2)
53A-448	Pump arm (all exc. 6368)	103-14	Lead shot
53A-547	Pump arm (6368)	103-15	Lead shot (2)
61-58	Idle & fast idle speed screw spring (2)	103-20	Lead shot (2)
61-538	Step-up piston spring (all exc. 6368)	108-94	Choke Connector rod spacer
61-653	Pump spring (all exc. 6368)	115-265	Throttle connector rod (all exc. 6368)
61-800	Choke lever spring	115-409	Choke connector rod
61-873	Idle mixture screw spring (2)	115-424	Throttle connector rod (6368)
61-940	Bowl vent spring (6368)	116-13	Pump discharge check ball
61-942	Pump spring (6368)	116-18	Pump intake check ball
61-967	Step-up piston spring (6368)	118-275S	Venturi cover Assy. (4829, 30, 6229, 30)
62-284S	Choke tube clamp assembly	118-314S	Venturi cover Assy. (4828, 6228, 6368)
63-238	Float pin retainer	120-299S	Main metering jet Assy. (360CC) (Std.) (6229, 30) (2)
63-282	Plunger retainer (6368)	120-300S	Main metering jet Assy. (340CC) (Std.) (6228) (2)
63-336	Fast idle connector rod retainer (2)	120-439S	Main metering jet Assy. (363CC) (Std.) (4829, 30) (2)
63-361	Plunger retainer (all exc. 6368) (2)	120-440S	Main metering jet Assy. (383CC) (Std.) (4828) (2)
64-371S	Pump plunger & rod assembly (all exc. 6368)	120-865S	Main metering jet Assy. (.065") (std.) (6368) (2)
64-413S	Pump plunger & rod Assy. (6368)	121-285	Venturi housing gasket
65-64	Bowl vent cover (6368)	121-531	Body flange gasket
75-1721	Step-up rod (.024" X .021") (Std.) (6229, 30) (2)	121-561	Venturi cover gasket
75-1723	Step-up rod (.027" X .025") (4829, 30) (2)	121-659	Bowl vent cover plate gasket (6368)
75-1848	Step-up rod (.034" X .027") (4828) (2)	121-672	Body gasket
75-1849	Step-up rod (.031 X .0275") (6368) (2)	136-191	Plunger washer (6368)
75-1927	Step-up rod (.027" X .021") (Std.) (6228) (2)	136-218	Plunger washer (all exc. 6368)
96-36	Idle mixture screw limiter cap (Use 96-40) (2)	136-219	Choke lever retainer washer
96-40	Idle mixture screw limiter cap (2)	150A-10	Pin spring (2)
101-65	Choke shaft lever screw	160-310S	Step-up piston & plate assembly
101-70	Pump arm screw (all exc. 6368)	169-144	Bowl vent valve (6368)
101-296	Fast idle speed screw (Use 101-614)	181-431	Fast idle cam (Use 181-439)
101-307S	Air horn screw assembly (4)	181-439	Fast idle cam
101-318	Pump arm screw (6368)	186-149	Fuel bowl baffle
101-374	Step-up piston plate screw		

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

CARTER.

FORM 5552A
November, 1969
Revised October, 1970

1970-71 "8" DODGE TRUCK D-1, 2, 3, 4, 5, 6 - S-5, 6 - W-2, 3, 5 C-5, L-6, B-3

BBD DOWN-DRAFT CLIMATIC CONTROL AND MANUAL CHOKE CARBURETORS NOS. 4819S-4820S-
4821S-4822S-4823S-4824S-4825S-4826S

MODEL			ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1970	D-1 (CALIF.-E.C.S.)	S/T	318	4819S	4819S	902-280
1970	D-1 (CALIF.-E.C.S.)	A/T	318	4820S	4820S	902-280
1970	D-1	S/T	318	4821S	4821S	902-279
1970	D-1	A/T	318	4822S	4822S	902-279
1970	D-2, 3, W-2, 3	S/T	318	4823S	4823S	902-263
1970-71	D-2, 3, W-2, 3, B-3	A/T	318	4824S	4824S	902-263
1970-71	D-4, 5, 6, W5, C5, L6	S/T	318-3	4825S	4825S	902-263
1970-71	S-5, 6	S/T	318-3	4826S	4826S	902-263

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.	UN- LOADER	CHOKE DIAPH. LINKAGE
4819S	1-7/16	265	MANUAL	1/4	13/64	CLOSED	1600	1/4	—
4820S	1-7/16	265	INDEX	1/4	13/64	3/32	2000	1/4	5/32
4821S	1-7/16	265	MANUAL	1/4	1/32	CLOSED	1600	1/4	—
4822S	1-7/16	265	INDEX	1/4	1/32	3/32	2000	1/4	5/32
4823S	1-7/16	265	MANUAL	1/4	1/32	CLOSED	1600	1/4	—
4824S	1-7/16	265	INDEX	1/4	1/32	3/32	2000	1/4	5/32
4825S	1-7/16	275	MANUAL	1/4	1/32	CLOSED	2000	NONE	—
4826S	1-7/16	275	MANUAL	1/4	1/32	CLOSED	2000	NONE	—

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug 035"	Breaker Point Setting .014" — .019"	Idle Mixture Screw Limiter Cap Type
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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: (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 retainer in center groove of plunger shaft (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: (Manual Choke) — With fast idle screw on cam between index marks; (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 between index marks; (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 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.

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	Part No.	PART NAME
1A-333	Flange gasket w/o gov. (4823, 24, 25)	101-428	Choke tube & diaphragm bracket screw(2)
1A-316	Flange gasket w/o gov. (4819, 20, 21, 22)	101-543S	Body flange screw assembly(2)
1A-334	Flange gasket w/gov. (4819, 21, 23, 25, 26)	101-544S	Body screw assembly(2)
2-303	Throttle valve (all except 4825, 26)(2)	101-558	Choke valve screw(2)
2-304	Throttle valve (4826)(2)	101-560	Cover plate screw (4819, 20)(2)
3-1809S	Throttle shaft & lever assembly (4819, 21, 23)	101-563	Idle speed screw
3-1695S	Throttle shaft & lever assembly (4820, 22, 24)	101-565	Fast idle cam screw
3-1735S	Throttle shaft and lever assembly (4825, 26)	101-569	Venturi cluster screw (4819, 20)(2)
7-172	Choke valve	101-593	Venturi cluster screw (4825, 26)(2)
14-847S	Choke lever & shaft assembly (4820, 22, 24)	101-614	Fast idle speed screw (4819, 21, 23, 25, 26)
14-850S	Choke lever assembly (4820, 22, 24)	101-615	Bowl vent cover plate screw (4819, 20)(3)
14-914S	Choke lever & shaft assembly (4819, 21, 23, 25, 26)	101-639	Venturi cluster screw (4821, 22, 23, 24)(2)
14-923	Choke lever (4819, 21, 23, 25, 26)	103-14	Lead shot
14-925S	Choke lever assembly (4819, 23, 25, 26)	103-15	Lead shot(2)
20-146	Step-up piston gasket	103-20	Lead shot(2)
20-203	Needle seat gasket	105A-60	Dashpot lock nut (4819, 21)
20-262	Hot idle valve gasket (4819, 20)	108-94	Choke connector rod spacer
21-235S	Float & lever assembly	115-265	Throttle connector rod (4822, 24, 25, 26)
24-23	Float lever pin	115-399	Choke diaphragm rod (4820, 22, 24)
25-1003S	Needle & seat assembly (flared tip)	115-409	Fast idle connector rod
30A-198	Idle mixture screw(2)	115-424	Throttle connector rod (4819, 20, 21, 23)
53A-448	Pump arm (all except 4819, 20)(2)	116-13	Pump discharge check ball
53A-495	Pump arm (4819, 20)	116-18	Pump intake check ball
61-58	Idle & fast idle speed screw spring(2)	118-275S	Venturi cover assembly (4819, 20, 21, 22, 23, 24, 26)
61-538	Step-up piston spring	118-318S	Venturi cover assembly (4825)
61-653	Pump spring	120-309S	Main metering jet (383cc) Std. (all except 4825)
61-800	Choke lever spring (4819, 21, 23, 25, 26)	120-440S	Main metering jet (404cc) Std. (4825)
61-940	Bowl vent spring (4819, 20)	121-285	Venturi housing gasket
61-873	Idle mixture screw spring(2)	121-531	Body flange gasket (all except 4819, 20)
62-284S	Choke tube clamp assembly (4819, 21, 23, 25, 26)	121-561	Venturi cover gasket
63-238	Float lever pin retainer	121-658	Body flange gasket (4819, 20)
63-282	Plunger retainer (4819, 20)(2)	121-659	Bowl vent cover gasket (4819, 20)
63-336	Fast idle connector rod retainer(2)	121-672	Body gasket
63-361	Plunger retainer (all except 4819, 20)	136-191	Plunger washer (4819, 20)
64-371S	Pump plunger assembly (all except 4819, 20)	136-218	Plunger washer (all except 4819, 20)
64-413S	Pump plunger assembly (4819, 20)	136-219	Choke lever retainer washer (4819, 21, 23, 25, 26)
65-62	Cover plate (4819, 20)	145-303	Choke diaphragm hose (4820, 22, 24)
65-64	Bowl vent cover plate (4819, 20)	150A-10	Pin spring
75-1723	Step-up rod (.027" x .025") (4826)(2)	150A-21	Choke diaphragm pin spring (4820, 22, 24)
75-1848	Step-up rod (.034" x .027") (4825)(2)	160-310S	Step-up piston & plate assembly
75-1849	Step-up rod (.031" x .026") (4819, 21, 23)(2)	169-144	Bowl vent valve (4819, 20)
75-1895	Step-up rod (.032" x .027") (4820, 22, 24)(2)	169-154S	Hot idle valve assembly (4819, 20)
96-36	Idle mixture screw limiter cap(2)	170BJ-222S	Thermostatic coil housing & rod assembly (4820, 22)
101-65	Choke shaft lever screw (4819, 21, 23, 25, 26)	170BJ-232S	Thermostatic coil housing & rod assembly (4824)
101-70	Pump arm screw (all except 4819, 20)	180-144	Dashpot bracket (4819, 21)
101-296	Fast idle speed screw (4820, 22, 24)	181-414	Fast idle cam (4820, 22)
101-307S	Air horn screw assembly (4819, 21-2) (4820, 22, 23, 24, 25, 26-4)	181-416	Fast idle cam (4824)
101-318	Pump arm screw (4819, 20)	181-439	Fast idle cam (4819, 21, 23, 25, 26)
101-362S	Air horn screw assembly (4819, 21)(2)	186-149	Fuel bowl baffle
101-374	Step-up piston plate screw	202-277S	Dashpot assembly (4819, 21)
101-419	Throttle valve screw(4)	202-335S	Choke diaphragm & bracket assembly (4820, 22, 24)

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

1971-72 "V8"

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

BBD DUAL DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOS. 4957S - 4958S - 4959S
4960S - 6031S

MODEL		ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1971 B, L, D, J, P, R, V, W, TRK. B-1-2, B-3 (E.C.S.)	S/T	318	4957S	4957S	902-280
1971 B, L, D, J, P, R, V, W, TRK. B-1 2, B-3 (E.C.S.)	A/T	318	4958S	4958S	902-280
1971 B, L, D, J, P, R, V, W, (EXPORT)	S/T	318	4959S	4959S	902-294
1972 D, L, P, V, W, (EXPORT)	S/T	318	4959S	4959S	902-294
1971 B, L, D, J, P, R, V, W, (EXPORT)	A/T	318	4960S	4960S	902-294
1972 D, L, P, V, W, (EXPORT)	A/T	318	4960S	4960S	902-294
1971 TRK. D-2, W-2, 3	S/T	318	6031S	6031S	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.	UNLOADER	CHOKE DIAPH. LINKAGE
4957S	1-7/16	260	INDEX	1/4	13/64	3/32	1600	1/4	5/32
4958S	1-7/16	260	INDEX	1/4	13/64	3/32	2000	1/4	5/32
4959S	1-7/16	260	INDEX	1/4	1/32	3/32	1600	1/4	5/32
4960S	1-7/16	260	INDEX	1/4	1/32	3/32	2000	1/4	5/32
6031S	1-7/16	260	INDEX	1/4	1/32	3/32	1600	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 (Except 4959, 60)	Idle R.P.M. See Decal In Engine Compartment
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Carter
Carburetor
Division



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: (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 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

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-222	Flange gasket (4959, 60)
1A-316	Flange gasket (4957, 58)
1A-333	Flange gasket (6031)
2-303	Throttle valve (2)
3-1694S	Throttle shaft & lever assembly (4957)
3-1695S	Throttle shaft & lever assy. (4958, 59, 60, 6031)(Use 3-1848S)
3-1848S	Throttle shaft & lever assy. (All exc. 4957)
7-172	Choke valve (Use 7-329)
7-329	Choke valve
14-847S	Choke lever & shaft assembly
14-850S	Choke lever assembly
20-146	Step up piston gasket
20-203	Needle seat gasket
20-262	Hot idle valve gasket (4957, 58)
21-235S	Float & lever assembly
24-23	Float lever pin
25-1003S	Needle & seat assy. (flared tip)
30A-198	Idle mixture screw (2)
53A-448	Pump arm (4959, 60, 6031)
53A-495	Pump arm (4957, 58)
61-58	Idle & fast idle speed screw spring (2)
61-538	Step-up piston spring
61-653	Pump spring (All exc. 4957, 58)
61-873	Idle mixture screw spring (2)
61-940	Bowl vent spring (4957, 58)
61-942	Pump spring (4957, 58)
63-238	Float lever pin retainer
63-282	Plunger retainer (4957, 58) (2)
63-336	Fast idle connector rod retainer (2)
63-361	Plunger retainer (4959, 60, 6031) (2)
64-371S	Pump plunger & rod assy. (4959, 60, 6031)
64-413S	Pump plunger & rod assy. (4957, 58)
65-62	Cover plate (4957, 58)
65-64	Bowl vent cover plate (4957, 58)
75-1727	Step-up rod (.029"x.025") (Std.) (4959, 60, 6031)
75-1849	Step-up rod (.031"x.026") Std. (4957) (2)
75-1895	Step-up rod (.032"x.027") Std. (4958) (2)
96-36	Idle mixture screw limiter cap (4957, 58, 6031) (Use 96-40) (2)
96-40	Idle mixture screw limiter cap (4957, 58, 6031) (2)
101-70	Pump arm screw (4959, 60, 6031)
101-296	Fast idle speed screw
101-307S	Air horn screw assy. (4958, 59, 60, 6031, -4) (4957)
101-318	Pump arm screw (4957, 58)
101-362S	Air horn screw assy. (4957) (2)
101-374	Step-up piston plate screw

Part No.	PART NAME
101-419	Throttle valve screw (4)
101-428	Choke diaphragm bracket screw (2)
101-543S	Body flange screw assy. (Use 101-680S) (2)
101-544S	Body screw assy. (2)
101-557	Venturi cluster screw (4958) (Use 101-639) (2)
101-558	Choke valve screw (2)
101-560	Cover plate screw (4957, 58)
101-563	Idle speed screw
101-565	Fast idle cam screw
101-579	Venturi cluster screw (4957, 6031) (2)
101-615	Bowl vent cover plate screw (4957, 58) (3)
101-639	Venturi cluster screw (4958, 59, 60) (2)
101-680S	Body flange screw assembly (2)
103-14	Lead Shot
103-15	Lead shot (2)
103-20	Lead shot (2)
105A-60	Dashpot lock nut (4957)
108-94	Choke connector rod spacer
115-265	Throttle connector rod (4959, 60, 6031)
115-399	Choke diaphragm rod
115-409	Fast idle connector rod
115-424	Throttle connector rod (4957, 58)
116-13	Pump discharge check ball
116-18	Pump intake check ball
118-275S	Venturi cover assembly
120-299S	Main metering jet (360cc) (Std.) (6031)
120-309S	Main metering jet (383cc) Std. (4957, 58, 59, 60)
121-285	Venturi housing gasket
121-531	Body flange gasket (4959, 60, 6031)
121-561	Venturi cover gasket
121-658	Body flange gasket (4957, 58)
121-659	Bowl vent cover gasket (4957, 58)
121-672	Body gasket
136-191	Plunger washer (4957, 58)
136-218	Plunger washer (4959, 60, 6031)
145-303	Choke diaphragm hose
150A-10	Pin spring (2)
150A-21	Choke diaphragm pin spring
160-310S	Step-up piston & plate assembly
169-144	Bowl vent valve (4957, 58)
169-151S	Hot idle valve assy. (4957, 58)
170BJ-222S	Thermostatic coil housing & rod assy. (4957, 58)
170BJ-232S	Thermostatic coil housing & rod assy. (4959, 60, 6031)
180-144	Dashpot bracket (4957)
181-414	Fast idle cam (4958, 60)
181-415	Fast idle cam (4957, 59, 6031)
186-149	Fuel bowl baffle
202-277S	Dashpot assembly (4957)
202-335S	Choke diaphragm & bracket assembly

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

1970-71 "6" DODGE TRUCK

BBS DOWN-DRAFT CLIMATIC CONTROL AND MANUAL CHOKE CARBURETORS NOS. 4836S - 4837S
4838S - 4839S - 4905S - 4906S

MODEL	ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1970 D-1 (Calif.-E.C.S.) S/T	225	4836S	4836S	902-278
1970 D-1 (Calif.-E.C.S.) A/T	225	4837S	4837S	902-278
1970 D-1 S/T	225	4838S	4838S	902-277
1970 D-1 A/T	225	4839S	4839S	902-277
1970 D-2, 3, 4, 5; P-2, 3, 4; L-6; S-5; W-2, 3, 5 S/T	225-1	4905S	4905S	902-277
	225-2			
1970-71 D-2, 3; P-2, 3; W-2, 3 A/T	225-1	4906S	4906S	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
4836S	1 ¹¹ / ₁₆	163	MANUAL	¹ / ₄	⁵ / ₁₆	¹⁷ / ₆₄	⁵ / ₃₂	—	—	See ADJ.
4837S	1 ¹¹ / ₁₆	163	2 RICH	¹ / ₄	⁵ / ₁₆	¹⁷ / ₆₄	⁵ / ₆₄	³ / ₁₆	⁵ / ₆₄	—
4838S	1 ¹¹ / ₁₆	163	MANUAL	¹ / ₄	¹ / ₃₂	¹ / ₃₂	⁵ / ₃₂	—	—	See ADJ.
4839S	1 ¹¹ / ₁₆	163	2 RICH	¹ / ₄	¹ / ₃₂	¹ / ₃₂	⁵ / ₆₄	³ / ₁₆	⁷ / ₆₄	—
4905S	1 ¹¹ / ₁₆	163	MANUAL	¹ / ₄	¹ / ₃₂	¹ / ₃₂	⁵ / ₃₂	—	—	—
4906S	1 ¹¹ / ₁₆	163	2 RICH	¹ / ₄	¹ / ₃₂	¹ / ₃₂	⁵ / ₆₄	³ / ₁₆	⁷ / ₆₄	—

MOTOR TUNE-UP — BE ACCURATE!

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



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	Part No.	PART NAME
1A-153	Flange gasket w/o governor (4905, 06)	96-36	Idle mixture screw limiter cap
1A-315	Flange gasket w/o governor (4836, 37, 38, 39)	101-296	Idle speed screw
1A-319	Flange gasket w/governor (4836, 38, 4905)	101-307S	Bowl cover screw assembly (2)
2-301	Throttle valve (4836, 37, 38, 39)	101-318	Pump arm screw
2-307	Throttle valve (4905, 06)	101-359S	Air horn screw assembly (4836, 38-3) (all other-4)
3-1681S	Throttle shaft & lever assembly (4837, 39, 4906)	101-374	Step-up piston plate guide screw
3-1703S	Throttle shaft & lever assembly (4905)	101-472	Fast idle speed screw (4836, 38) (4905 — use 101-490)
3-1761S	Throttle shaft & lever assembly (4836, 38)	101-473	Fast idle cam screw
7-195S	Choke valve assembly (4905)	101-490	Fast idle speed screw (4905)
7-199	Choke valve (4836, 37, 38, 39, 4906)	101-537	Choke diaphragm bracket screw (4837, 39, 4906) (2)
11B-35	Rivet plug	101-544S	Dashpot bracket screw assembly (4836, 38)
11B-79	Rivet plug	101-558	Choke valve screw
11B-108	Pump jet rivet plug	101-560	Cover plate screw (4836, 37)
11B-220	High speed passage rivet plug	101-614	Fast idle speed screw (4837, 39, 4906)
11B-303	Rivet plug	101-633	Throttle valve screw
14-870S	Choke lever & shaft assembly (4905)	105A-60	Dashpot lock nut (4836, 38)
14-920S	Choke lever & shaft assembly (4837, 39, 4906)	115-347	Throttle connector rod (4839, 4905, 06)
14-930S	Choke lever & clamp assembly (4836, 38)	115-370	Choke connector rod (4837, 39, 4905, 06)
14-931S	Choke lever & shaft assembly (4836, 38)	115-398	Choke diaphragm connector rod (4837, 39, 4906)
20-146	Step-up piston gasket	115-413	Throttle connector rod (4836, 38)
20-203	Needle seat gasket	115-456	Throttle connector rod (4837)
20-262	Hot idle valve gasket (4836, 37)	115-483	Choke connector rod (4836, 38)
21-222S	Float & lever assembly	116-13	Pump intake & discharge check ball (2)
24-23	Float lever pin	120-428S	Main metering jet assembly Std. (475cc) (4836, 38)
25-1020S	Needle & seat assembly (flared tip)	120-429S	Main metering jet assembly Std. (429cc) (4837, 39)
30A-197	Idle mixture screw	120-432S	Main metering jet assembly Std. (490cc) (4905, 06)
38A-117	Pump plunger bushing (4905, 06)	121-643	Body gasket (4838, 39, 4905, 06) (use 121-696)
48-194	Pump jet (4905, 06)	121-655	Body gasket (4836, 37) (use 121-697)
48-219	Pump jet (4836, 37, 38)	121-656	Body flange gasket
53A-372	Pump arm (4837)	121-696	Body gasket (4838, 39, 4905, 06)
53A-450	Pump arm (4839, 4905, 06)	121-697	Body gasket (4836, 37)
53A-494	Vent arm (4836, 37)	123-745	Idle orifice tube assembly (4905, 06)
53A-510	Pump arm (4836, 38)	123-92S	Idle orifice tube assembly (4836, 37, 38, 39)
61-58	Idle & fast idle speed screw spring	136-218	Pump plunger washer (4838, 39, 4905, 06)
61-538	Step-up piston spring	145-285	Main vent tube
61-653	Pump spring (4836, 38)	145-294	Choke diaphragm hose (4837, 39, 4906)
61-761	Pump spring (4837, 39, 4905, 06)	145-413	Bowl vent hose (4836, 37)
61-800	Choke lever spring (4836, 38)	150A-10	Throttle connector rod pin spring
61-866	Choke pull back spring (4905)	150A-21	Choke diaphragm connector rod pin spring (4837, 39, 4906)
61-873	Idle mixture screw spring	150A-22	Pump plunger pin spring (4838, 39, 4905, 06)
62-282	Hose clamp (4836, 37)	160-302S	Step-up piston & plate assembly
62-286S	Choke tube clamp assembly (4836, 38, 4905)	169-154S	Hot idle valve assembly (4836, 37)
63-169	Float lever pin retainer	170BQ-135S	Thermostatic coil housing & rod assembly (4837, 39)
63-282	Vent valve retainer (4836, 37)	170BQ-136S	Thermostatic coil housing & rod assembly (4906)
63-395	Pump spring retainer (4836, 37)	180-182	Dashpot bracket (4836, 38)
64-226S	Pump plunger assembly (4838, 39, 4905, 06)	181-307	Fast idle cam (4836, 38, 4905)
64-403S	Pump plunger assembly (4836, 37)	181-350	Fast idle cam (4837, 39, 4906)
65-62	Cover plate (4836, 37)	202-152S	Dashpot assembly (4836, 38)
75-1843	Step-up rod (.040" x .036") (4905, 06)	202-336S	Choke diaphragm & bracket assembly (4837, 39, 4906)
75-1844	Step-up rod (.037" x .032") (4836, 38)		
75-1845	Step-up rod (.039" x .035") (4837, 39)		

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

CARTER.Form 5550A
NOVEMBER, 1969
REVISED OCT. 1970

1970-71 "V8"

CHRYSLER C - PLYMOUTH P, R BARRACUDA B - DODGE D, W CHALLENGER J

AVS FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL CARBURETORS Nos. 4732S - 4734S - 4736S - 6125S

MODEL	ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1970 P, C, D, R, W, B, J, W/A.C. A/T	383	4732S	4732S	902-282A
1970 B, C, D, J, P, R, W (E.C.S.) A/T	383	4734S	4734S	902-282A
1970 P, C, D, R, W, B, J W/O A.C. A/T	383	4736S	4736S	902-282A
1971 C, D, P A/T	383	6125S	6125S	902-293

CARBURETOR SPECIFICATIONS

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	C.F.M.	VACUUM SPARK PORT	CHOKE SETTING	FLOAT LEVEL	FLOAT DROP	PUMP	FAST IDLE LINKAGE	FAST IDLE R.P.M.	UN- LOADER	BOWL VAPOR VENT	SEC. THRO. LEVER	CHOKE DIAPH. LINKAGE
4732S	1-7/16 (P) 1-11/16 (S)	630	ABOVE VALVE	2 RICH	5/16	23/32	9/16	1/16	1700	1/4	1/32	19/64	5/64
4734S	1-7/16 (P) 1-11/16 (S)	630	ABOVE VALVE	2 RICH	5/16	23/32	9/16	1/16	1700	1/4	3/4	19/64	5/64
4736S	1-7/16 (P) 1-11/16 (S)	630	ABOVE VALVE	2 RICH	5/16	23/32	9/16	1/16	1700	1/4	1/32	19/64	5/64
6125S	1-7/16 (P) 1-11/16 (S)	630	ABOVE VALVE	2 RICH	5/16	23/32	9/16	1/16	1800	1/4	3/4	19/64	5/64

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
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Carter
Carburetor
Division



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

3 Pages
Form 5550A

CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFIC SETTINGS

FLOAT ALIGNMENT: Side of floats parallel to edge of casting. Minimum clearance between lever and air horn lugs without binding. To adjust, bend float lever.

FLOAT LEVEL: Specified clearance, between top of floats (at outer end) and air horn gasket. To adjust, bend float lever.

FLOAT DROP: Specified clearance between top of floats (at outer end) and air horn gasket. To adjust, bend stop tabs on float brackets.

PUMP: Specified distance from the top of the bowl cover to the top of the plunger shaft with throttle connector rod in center hole (medium stroke) of pump arm with throttle valves tightly closed. To adjust, bend throttle connector rod.

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. (Open and close throttle so fast idle cam is free to operate.)

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 clearance between upper edge of choke valve and inner wall of air horn, with throttle wide open. To adjust, bend tang on fast idle cam.

BOWL VAPOR VENT (NON E.C.S.): Distance between the heel (low side of seal) of the rubber grommet and its seat on the bowl cover should be as specified with throttle valves set at curb idle. To adjust, bend tang on vapor vent arm. If the pump has been changed from standard setting, readjust the bowl vapor vent.

BOWL VAPOR VENT (E.C.S.): 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.

SECONDARY THROTTLE LEVER: 1. Block choke valve wide open. 2. With specified clearance between lower edge of

primary valve and bore (opposite idle port) secondary valves should just start to open. To adjust, bend throttle operating rod. **Note:** At wide open throttle, primary and secondary valves will reach full vertical position. 3. With primary and secondary throttle valves in tightly closed position there should be .010" to .030" between positive closing shoes on primary and secondary throttle levers. To adjust, bend shoe on secondary lever. **Note:** If necessary, bend stop lug on secondary lever to prevent secondary valves from going past wide open.

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.

CHOKE DIAPHRAGM LINKAGE: With vacuum diaphragm plate (not stem) bottomed, close choke valve 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.

SECONDARY AIR VALVE: Loosen lock screw and allow air valve to position itself wide open. Check to see that air valve and shaft are operating freely. To adjust, turn the shaft bearing counter-clockwise until the spring just contacts air valve, then turn the shaft bearing 1970-2; 1971-2½ additional turns.

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 clears 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-318	Flange gasket
2-281	Secondary throttle valve (2)
2-289	Primary throttle valve (2)
3-1618S	Secondary throttle shaft & dog assy.
3-1734S	Primary throttle shaft, lever & dog assy.
4A-203	Throttle shaft dog (4732, 36)
4A-204	Throttle shaft dog (4734, 6125)
7-293S	Choke valve assembly
7-294	Air valve
11B-79	Rivet plug (2)
11B-390	Passage plug (4)
11B-480	Idle port rivet plug (2)
13-244	Air valve shaft
13-262	Choke shaft
14-555	Choke shaft lever
14-559	Countershaft lever to choke valve
14-893	Choke lever
15-57	Fuel inlet fitting
15-58S	Fuel inlet fitting assy. (use 15-57)
16-546	Step-up rod (.066"x.064"x.055") Std. (6125) (2)
16-574	Step-up rod (.065"x.064"x.055") Std. (4732, 34, 36) (2)
17-51	Pump discharge check needle
20-127	Fuel inlet fitting gasket (use 20-243)
20-204	Needle seat gasket (2)
20-243	Fuel inlet fitting gasket
21-241S	Float and lever assembly (2)
24-29	Float lever pin (2)
25-1032S	Needle & seat assembly (2)
30-78	Fuel inlet strainer
30A-199	Idle mixture screw (2)
48-339S	Pump jet assembly

Part No.	PART NAME
53A-481	Bowl vent arm (4732, 36)
53A-482	Secondary throttle operating lever
53A-489	Lockout dog
53A-497	Bowl vent arm (4734, 6125)
58-1268S	Primary venturi assy. (opposite pump side) (4732, 34, 36)
58-1269S	Primary venturi assy. (pump side) (4732, 34, 36)
58-1307S	Primary venturi assy. (opposite pump side) (6125)
58-1308S	Primary venturi assy. (pump side) (6125)
61-291	Idle speed screw spring
61-585	Step-up rod retaining spring (2)
61-604	Vacuum piston spring (2)
61-649	Throttle lever spring
61-798	Air valve spring
61-816	Pump spring (lower)
61-829	Bowl vent arm spring (4732, 36)
61-841	Secondary throttle return spring
61-873	Idle mixture & speed screw spring (3)
61-883	Bowl vent arm spring (4734, 6125)
63-336	Connector rod retainer (6)
64-391S	Pump plunger assy. (4732, 34, 36)
64-418S	Pump plunger assy.
65-59	Step-up piston cover plate (opposite pump)
65-60	Step-up piston cover plate (pump side)
96-36	Idle mixture screw limiter cap (2)
101-65	Choke shaft lever screw
101-74	Throttle shaft lever screw (2)
101-184S	Pump jet screw assembly (2)
101-323	Fast idle cam screw
101-337	Countershaft lever screw

PARTS LIST (Cont'd.)

Part No.	PART NAME	Part No.	PART NAME
101-362S	Air horn screw assembly	(8)	120-489 Primary metering jet (.089") (2)
101-419	Secondary throttle valve screw	(4)	121-302 Primary venturi cluster gasket (2)
101-420	Primary throttle valve screw	(4)	121-314 Hot idle valve gasket (4732, 34)
101-421	Pump arm screw (4734, 6125)	(2)	121-613 Air horn gasket (4732, 34, 36)
101-428	Choke diaphragm bracket screw	(2)	(use 121-680)
101-442S	Venturi screw assembly	(4)	121-619 Pump jet housing gasket
101-453S	Hot idle valve screw assy. (4732, 34, 6125)	(2)	121-680 Air horn gasket (4732, 34, 36)
101-558	Choke & air valve screw	(4)	121-690 Air horn gasket (6125)
101-560	Step-up piston cover plate & air valve retainer screw	(3)	122-119S Pump intake ball check assembly
101-584	Pump arm screw (4732, 36)		136-47 Choke diaphragm connector rod washer
101-621	Fast idle speed screw		136-159 Primary throttle shaft washer
101-625	Idle speed screw		136-160 Secondary throttle shaft washer
103-14	Lead shot		136-174 Idle speed screw washer (Disc.)
103-16	Lead shot		136-219 Choke lever retainer washer
111-76	Pump arm		136-300 Throttle shaft spring washer
113-90S	Choke shaft & lever assembly		145-304 Choke diaphragm hose
114-146	Primary throttle shaft arm (outer) (4732, 34, 36)		150A-14 Pin spring (4734, 6125)
114-181	Primary throttle shaft arm (inner)		150A-21 Choke diaphragm connector rod pin spring
114-183	Primary throttle shaft arm (outer) (6125)		160-207 Step-up piston (2)
115-308	Throttle operating rod		164-24 Grommet seal (use 164-30)
115-372	Throttle connector rod		164-30 Grommet seal
115-438	Choke diaphragm connector rod		169-48S Hot idle valve assembly (4732)
115-452	Fast idle connector rod		169-152S Hot idle valve assy. (4734, 6125)
115-460	Bowl vent connector rod (4734, 6125)		170BP-224S Thermostatic coil housing & rod assy.
117-190	Pump connector link		181-424S Fast idle cam assembly
117-208	Choke valve link		186-70 Fuel bowl baffle plate (2)
120-389	Secondary metering jet (.089") (6125)	(2)	202-338S Choke diaphragm & bracket assy. (6125)
120-398	Secondary metering jet (.098") (4732, 34, 36)	(2)	202-339S Choke diaphragm & bracket assy. (4732, 34, 36)
			210-27 Air valve shaft bearing (for adjusting spring tension)

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

1970-71 "V8"

BARRACUDA-B - CHALLENGER-J

DODGE-W - PLYMOUTH-R

AFB FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL AND MANUAL CHOKE CARBURETOR Nos.
4742S - 4745S - 4746S - 4969S - 4970S - 4971S

MODEL		ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP-KIT NO.
1970 B, J, R, W (FRONT)	ALL/T	426 (HEMI)	4742S	4742S	902-240B
1970 B, J, R, W (REAR)	S/T	426 (HEMI)	4745S	4745S	902-240B
1970 B, J, R, W (REAR)	A/T	426 (HEMI)	4746S	4746S	902-240B
1971 B, J, R, W (REAR)	S/T	426 (HEMI)	4969S	4969S	902-240B
1971 B, J, R, W (REAR)	A/T	426 (HEMI)	4970S	4970S	902-240B
1971 B, J, R, W (FRONT)	ALL/T	426 (HEMI)	4971S	4971S	902-240B

CARBURETOR SPECIFICATIONS

AND

ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB.	THROTTLE BORE	C.F.M.	VACUUM SPARK PORT	CHOKE SETTING	FLOAT LEVEL	FLOAT DROP	PUMP	FAST IDLE LINKAGE	FAST IDLE R.P.M.	UN- LOADER	BOWL VAPOR VENT	SEC. THRO. LEVER
4742S	1-7/16 (P) 1-11/16 (S)	570	NONE	—	19/64	23/32	7/16	—	—	—	—	17/64
4745S	1-7/16 (P) 1-11/16 (S)	570	NONE	2 RICH	7/32	23/32	7/16	1/16	2000	1/4	3/4	17/64
4766S	1-7/16 (P) 1-11/16 (S)	570	NONE	2 RICH	7/32	23/32	7/16	1/16	2000	1/4	3/4	17/64
4969S	1-7/16 (P) 1-11/16 (S)	570	NONE	MANUAL	7/32	23/32	7/16	1/16	2100	1/4	3/4	17/64
4970S	1-7/16 (P) 1-11/16 (S)	570	NONE	MANUAL	7/32	23/32	7/16	1/16	2100	1/4	3/4	17/64
4971S	1-7/16 (P) 1-11/16 (S)	570	NONE	—	19/64	23/32	7/16	—	—	—	—	17/64

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug Gap .035"	Breaker Point Setting .017"	Ignition Timing See Decal In Engine Compartment	Idle Mixture Screw Setting 4742-4971 None All Others Limiter Cap Type	Idle R.P.M. See Decal In Engine Compartment
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Carter
Carburetor
Division



CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFIC SETTINGS

FLOAT ALIGNMENT: Side of floats parallel to edge of casting. Minimum clearance between lever and air horn lugs without binding. To adjust, bend float lever.

FLOAT LEVEL: Specified clearance, between top of floats (at outer end) and air horn gasket. To adjust, bend float lever.

FLOAT DROP: Specified clearance between top of floats (at outer end) and air horn gasket. To adjust, bend stop tabs on float brackets.

PUMP: Specified distance from the top of the bowl cover to the top of the plunger shaft with throttle connector rod in center hole (medium stroke) of pump arm with throttle valves tightly closed. To adjust, bend throttle connector rod.

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. (Open and close throttle so fast idle cam is free to operate.)

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 clearance between upper edge of choke

valve and inner wall of air horn, with throttle wide open. To adjust, bend tang on throttle lever.

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 on throttle shaft. Install rivet plug.

SECONDARY THROTTLE LEVER: 1. Block choke valve wide open. 2. With specified clearance between lower edge of primary valve and bore (opposite idle port) secondary valves should just start to open. To adjust, bend throttle operating rod. **NOTE:** at wide open throttle, primary and secondary valves will reach full vertical position. 3. With primary and secondary throttle valves in tightly closed position there should be .010" to .030" between positive closing shoes on primary and secondary throttle levers. To adjust, bend shoe on secondary lever. **NOTE:** If necessary, bend stop lug on secondary lever to prevent secondary valves from going past wide open.

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.

PARTS LIST

Part No.	PART NAME
1A-248	Flange gasket
2-281	Secondary throttle valve (2)
2-289	Primary throttle valve (2)
3-1257	Secondary throttle shaft (4742, 4971)
3-1258S	Secondary throttle shaft and dog assy. (4745, 46, 4969, 70)
3-1277S	Auxiliary throttle shaft, valve & weight assy. (4742, 4971)
3-1339S	Auxiliary throttle shaft, valve & weight assy. (4745, 46, 4969, 70)
3-1620S	Primary throttle shaft & lever assy. (4742, 4971)
3-1622S	Primary throttle shaft & lever assy. (4745, 46, 4969, 70)
4A-175	Primary throttle shaft dog (4742, 4971)
4A-205	Primary throttle shaft dog (4745, 46, 4969, 70)
7-287	Choke valve (4745, 46, 4969, 70)
11B-41	Rivet plug (4742, 4971)
11B-79	Rivet plug (2)
11B-389	Idle port rivet plug (2)
11B-391	Nozzle wall plug (2)
11B-406	Secondary passage plug (2)
11B-439	Primary venturi plug (2)
11B-485	Passage plug (4745, 46, 4969, 70)
14-512	Outside choke shaft lever (4745, 46, 4969, 70)
14-550	Inside choke shaft lever (4745, 46, 4969, 70)
14-609S	Choke piston lever, link & pin assy. (4745, 46)
14-907S	Choke lever & shaft assembly (4745, 46, 4969, 70)
14-908S	Choke shaft & lever assy. piston housing (4745, 46)
15-51	Strainer nut assembly (4745, 46, 4969, 70)
15-52S	Strainer nut assembly (4745, 46) (use 15-51)
15-57	Strainer nut assembly (4742, 4971)
15-58S	Strainer nut assembly (4742) (use 15-57)
16-82X	Step-up rod (.068"x.061") Std. (4742, 4971) (2)
16-543	Step-up rod (.069"x.054") Std. (pump side) (4745, 46, 4969, 70)
16-544	Step-up rod (.0715"x.058") Std. (opposite pump side) (4745, 46, 4969, 70)
17-51	Pump discharge check needle
20-43	Piston housing gasket (4745, 46)
20-127	Strainer nut gasket (use 20-243)
20-204	Needle seat gasket (2)
20-243	Strainer nut gasket
21-179S	Float & lever assembly (2)
24-29	Float lever pin (2)
25-1005S	Needle & seat assembly (flared tip) (2)

Part No.	PART NAME
30-78	Fuel inlet strainer
30A-204	Idle mixture screw (4745, 46, 4969, 70) (2)
47-30	Piston housing welsh plug (4745, 46)
47-34	Spark port welsh plug
47-36	Venturi welsh plug (2)
48-264S	Pump jet & housing assembly (4742, 4971)
48-294S	Pump jet & housing assembly (4745, 46, 4969, 70)
53A-412	Lockout arm & collar assembly (4745, 46, 4969, 70)
53A-455	Secondary throttle operating lever
53A-497	Operating lever (bowl vent) (4745, 46, 4969, 70)
58-1153S	Secondary venturi (opposite pump) (4745, 46, 4969, 70)
58-1154S	Secondary venturi (pump side) (4745, 46, 4969, 70)
58-1160S	Secondary venturi (opposite pump) (4742, 4971)
58-1161S	Secondary venturi (pump side) (4742, 4971)
58-1280S	Primary venturi (opposite pump) (4745, 46, 4969, 70)
58-1281S	Primary venturi (pump side) (4745, 46, 4969, 70)
58-1282S	Primary venturi (opposite pump) (4742, 4971)
58-1283S	Primary venturi (pump side) (4742, 4971)
61-171	Pump spring
61-291	Idle speed screw spring
61-585	Step-up rod retaining spring (2)
61-604	Vacuum piston spring (2)
61-618	Secondary throttle return spring
61-649	Throttle flex spring
61-873	Idle mixture screw spring (4745, 46, 4969, 70) (2)
61-883	Bowl vent lever spring (4745, 46, 4969, 70)
62-290S	Choke tube bracket (4969, 70)
63-144	Delayer plate retainer ring (4745, 46)
63-225	Coil housing retainer (4745, 46)
64-212S	Pump plunger & rod assembly
65-43	Step-up piston cover plate (2)
96-36	Idle mixture screw limiter cap (4745, 46, 4969, 70) (2)
101-65	Choke shaft lever screw (4745, 46, 4969, 70) (2)
101-74	Throttle shaft lever screw (2)
101-152S	Air horn screw assembly
101-184S	Pump jet housing screw assembly (2)
101-323	Fast idle cam screw (4745, 46, 4969, 70)
101-362S	Air horn screw assembly (8)
101-379S	Secondary venturi screw assembly (4)
101-419	Secondary throttle valve screw (4)
101-420	Primary throttle valve screw (4)
121-421	Pump arm screw
101-426	Coil housing screw (4745, 46) (3)

Part No.	PART NAME	Part No.	PART NAME
101-431S	Air horn screw assembly	121-293	Secondary venturi cluster gasket (4742, 4971) . . (2)
101-436	Piston housing screw (4745, 46) (3)	121-302	Primary venturi cluster gasket (4742, 4971) . . (2)
101-442S	Primary venturi screw assembly (4)	121-303	Pump jet housing gasket (4742, 4971)
101-452	Idle speed screw (use 101-636)	121-314	Hot idle valve gasket (4745, 46, 4969, 70)
101-453S	Hot idle valve screw (4745, 46, 4969, 70) (2)	121-511	Secondary venturi cluster gasket (4745, 46, 4969, 70) (2)
101-500	Choke tube bracket screw (4969, 70) (2)	121-601	Primary venturi cluster gasket (4745, 46, 4969, 70) (2)
101-558	Choke valve screw (4745, 46, 4969, 70) (2)	121-695	Air horn gasket (4969, 70, 71)
101-560	Step-up piston cover plate screw (2)	122-108S	Pump intake ball check assembly
101-599	Fast idle speed screw (4745, 46, 4969, 70)	136-34	Choke piston lever retaining washer (4745, 46, 4969, 70)
101-636	Idle speed screw	136-159	Primary throttle shaft washer
103-14	Lead shot (.180")	136-160	Secondary throttle shaft washer
103-16	Lead shot (.200")	136-174	Idle speed screw washer
108-71	Secondary throttle shaft spacer (2)	150-190	Choke piston pin (4745, 46)
111-76	Pump arm	150A-10	Pin spring (6)
114-144	Primary throttle shaft arm (outer) (4742, 45, 46) . .	150A-14	Pin spring
114-147	Primary throttle shaft arm (inner)	160-137	Choke piston (4746)
114-182	Primary throttle shaft arm (outer) (4969, 70, 71) . .	160-207	Step-up piston (2)
115-308	Throttle operating rod	160-312	Choke piston (4745)
115-372	Throttle connector rod	164-24	Grommet seal (4745, 46) (use 164-30)
115-374	Fast idle connector rod (4745, 46, 4969, 70)	164-30	Grommet seal (4745, 46, 4969, 70)
115-467	Vent arm connector rod (4745, 46, 4969, 70)	169-48S	Hot idle valve assembly (4745, 46, 4969, 70)
115-468	Choke connector rod (4745, 46, 4969, 70)	170-1023S	Piston housing & plug assembly (4745, 46)
117-190	Pump connector link	170AZ-538S	Thermostatic coil & housing assembly (4745, 46) . .
120-377	Secondary metering jet (.077") (1 opposite pump) (4745, 46, 4969, 70)	181-345S	Fast idle cam assembly (4745, 46) (use 181-456S) . .
120-389	Secondary metering jet (.089") (4742, 4971) . . . (2)	181-346S	Fast idle cam assembly (4969, 70)
120-389	Primary metering jet (.089") (all) (2)	181-456S	Fast idle cam assembly (4745, 46)
120-392	Secondary metering jet (.092") (1 pump side) (4745, 46, 4969, 70)	184-85	Choke heat tube cap (4745, 46)
121-78	Coil housing gasket (4745, 46)	186-65	Choke baffle plate (4745, 46)
121-287	Pump jet housing gasket (4745, 46, 4969, 70)	186-70	Fuel bowl baffle (2)
121-291	Heat tube cap gasket (4745, 46)		
121-292	Air horn gasket (4742, 45, 46)		

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

1970-71 "V8" CHRYSLER - C CHALLENGER-J & BARRACUDA - B, DODGE-D, W, PLYMOUTH-P, R

AVS FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL CARBURETORS Nos. 4737S - 4738S - 4739S
- 4740S - 4741S - 4966S - 4967S - 4968S

MODEL	ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1970 B, J, R, W S/T	440	4737S	4737S	902-286
1970 B, C, D, J, P, R, W W/O A.C. A/T	440	4738S	4738S	902-286
1970 B, C, D, J, P, R, W W/A.C. A/T	440	4741S	4741S	902-282
1970 B, J, R, W, (E.C.S.) S/T	440	4739S	4739S	902-286
1970 B, C, D, J, P, R, W (E.C.S.) A/T	440	4740S	4740S	902-286
1971 C, D, P, V (E.C.S.) A/T	440	4966S	4966S	902-293
1971 B, C, D, J, P, R, W (E.C.S.) S/T	440	4967S	4967S	902-293
1971 B, C, D, J, P, R, W (E.C.S.) A/T	440	4968S	4968S	902-293

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	C.F.M.	VACUUM SPARK PORT	CHOKE SETTING	FLOAT LEVEL	FLOAT DROP	PUMP	FAST IDLE LINKAGE	FAST IDLE R.P.M.	UN- LOADER	BOWL VAPOR VENT	SEC. THRO. LEVER	CHOKE DIAPH. LINKAGE
4737S	1-11/16	750	ABOVE VALVE	2 RICH	7/32	23/32	7/16	1/16	2000	1/4	1/16	23/64	5/32
4738S	1-11/16	750	ABOVE VALVE	2 RICH	7/32	23/32	7/16	1/16	1800	1/4	9/64	23/64	5/32
4739S	1-11/16	750	ABOVE VALVE	2 RICH	7/32	23/32	7/16	1/16	2000	1/4	3/4	23/64	5/32
4740S	1-11/16	750	ABOVE VALVE	2 RICH	7/32	23/32	7/16	1/16	1800	1/4	3/4	23/64	5/32
4741S	1-11/16	750	ABOVE VALVE	2 RICH	7/32	23/32	7/16	1/16	1800	1/4	9/64	23/64	5/32
4966S	1-11/16(S) 1-7/16(P)	630	ABOVE VALVE	2 RICH	7/32	23/32	7/16	1/16	1600	1/4	3/4	23/64	5/64
4967S	1-11/16	750	ABOVE VALVE	2 RICH	7/32	23/32	7/16	1/16	1800	1/4	3/4	23/64	5/32
4968S	1-11/16	750	ABOVE VALVE	2 RICH	7/32	23/32	7/16	1/16	2000	1/4	3/4	23/64	5/32

Carter
Carburetor
Division



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

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
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CARBURETOR ADJUSTMENTS

(SEE FRONT PAGE FOR SPECIFIC SETTINGS)

FLOAT ALIGNMENT: Side of floats parallel to edge of casting. Minimum clearance between lever and air horn lugs without binding. To adjust, bend float lever.

FLOAT LEVEL: Specified clearance, between top of floats (at outer end) and air horn gasket. To adjust, bend float lever.

FLOAT DROP: Specified clearance between top of floats (at outer end) and air horn gasket. To adjust, bend stop tabs on float brackets.

PUMP: Specified distance from the top of the bowl cover to the top of the plunger shaft with throttle connector rod in center hole (medium stroke) of pump arm with throttle valves tightly closed. To adjust, bend throttle connector rod.

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. (Open and close throttle so fast idle cam is free to operate.)

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 clearance between upper edge of choke valve and inner wall of air horn, with throttle wide open. To adjust, bend tang on fast idle cam.

BOWL VAPOR VENT (NON E.C.S.): Distance between the heel (low side of seal) of the rubber grommet and its seat on the bowl cover should be as specified with throttle valves set at curb idle. To adjust, bend tang on vapor vent arm. If the pump has been changed from standard setting, readjust the bowl vapor vent.

BOWL VAPOR VENT (E.C.S.): 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.

SECONDARY THROTTLE LEVER: 1. Block choke valve wide open. 2. With specified clearance between lower edge of primary valve and bore (opposite idle port) secondary valves should just start to open. To adjust, bend throttle operating

rod. **Note:** At wide open throttle, primary and secondary valves will reach full vertical position. 3. With primary and secondary throttle valves in tightly closed position there should be .010" to .030" between positive closing shoes on primary and secondary throttle levers. To adjust, bend shoe on secondary lever. **Note:** If necessary, bend stop lug on secondary lever to prevent secondary valves from going past wide open.

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.

CHOKE DIAPHRAGM LINKAGE: With vacuum diaphragm plate (not stem) bottomed, close choke valve 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.

SECONDARY AIR VALVE: Loosen lock screw and allow air valve to position itself wide open. Check to see that air valve and shaft are operating freely. To adjust, turn the shaft bearing counter-clockwise until the spring just contacts air valve, then turn the shaft bearing (1970-2, 1971-2½) additional turns.

IDLE SOLENOID: Set solenoid screw to R.P.M. shown on decal in engine compartment. Adjust mixture screws to obtain smoothest idle. Turn in idle speed screws until it just touches lever, then back out one turn.

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 clears 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	Part No.	PART NAME
1A-318	Flange gasket (4741, 4966)	14-893	Choke lever
1A-330	Flange gasket (4737, 38, 39, 40, 4967, 68)	15-57	Fuel inlet fitting
2-281	Secondary throttle valve	15-58S	Fuel inlet fitting assy. (use 15-57)
2-289	Primary throttle valve (4966)	16-160	Step-up Rod (.0645" x .062" x .055") STD (4968)
2-291	Primary throttle valve (all exc. 4966)	16-546	Step-up rod Std. (.66"x.064"x.055") (4968)
3-1618S	Secondary throttle shaft & dog assy.		(use 16-160)
3-1734S	Primary throttle shaft, lever & dog assy.	16-572	Step-up rod Std. (.0665"x.063"x.058") (4966)
4A-203	Throttle shaft dog (4737, 38, 41)	16-575	Step-up rod (.065"x.062"x.053") Std.
4A-204	Throttle shaft dog (4739, 40, 4966, 67, 68)		(4738, 40, 41)
7-293S	Choke valve assembly	16-617	Step-up rod (.070"x.0655"x.0555") Std.
7-294	Air valve		(4737, 39, 4967)
11B-79	Rivet plug	17-51	Pump discharge check needle
11B-390	Passage plug	20-127	Fuel inlet strainer gasket (use 20-243)
11B-480	Idle port rivet plug (4966)	20-204	Needle seat gasket
11B-481	Idle port rivet plug (all exc. 4966)	20-243	Fuel inlet fitting gasket
13-244	Air valve shaft	21-245S	Float lever assembly
13-262	Choke shaft	24-29	Float lever pin
14-555	Choke shaft lever	25-1032S	Needle & seat assembly
14-559	Countershaft lever to choke valve	30-78	Fuel inlet strainer

PARTS LIST (Cont'd.)

Part No.	PART NAME	Part No.	PART NAME
30A-199	Idle mixture screw (4966) (2)	103-14	Lead shot
30A-200	Idle mixture screw (all exc. 4966) (2)	103-16	Lead shot
48-339S	Pump jet assembly	105A-56	Solenoid clamp nut (all exc. 4966)
53A-481	Bowl vent arm (4737, 38, 41)	111-76	Pump arm
53A-482	Secondary throttle operating lever	113-90S	Choke shaft & lever assembly
53A-489	Lockout dog	114-146	Primary throttle shaft arm (outer) (4737, 38, 39, 40, 41)
53A-497	Bowl vent arm (4739, 40, 4966, 67, 68)	114-181	Primary throttle shaft arm (inner)
58-1272S	Primary venturi assy. (opposite pump side) (4738, 40, 41, 4968)	114-183	Primary throttle shaft arm (outer) (4966, 67, 68)
58-1273S	Primary venturi assy. (pump side) (4738, 40, 41, 4968)	114-189S	Solenoid lever assy. (all exc. 4966)
58-1276S	Primary venturi assy. (opposite pump side) (4737, 39, 4967)	115-308	Throttle operating rod
58-1277S	Primary venturi assy. (pump side) (4737, 39, 4967)	115-372	Throttle connector rod
58-1318S	Primary venturi assy. (opposite pump side) (4966)	115-438	Choke diaphragm connector rod
58-1319S	Primary venturi assy. (pump side) (4966)	115-452	Fast idle connector rod
61-291	Idle speed screw spring	115-460	Bowl vent connector rod (4739, 40)
61-585	Step-up rod retaining spring (2)	117-190	Pump connector link
61-604	Vacuum piston spring (2)	117-208	Choke valve link
61-649	Throttle lever spring	120-395	Secondary metering jet (.095") Std. (2)
61-798	Air valve spring	120-489	Primary metering jet (.089") (4966) (2)
61-816	Pump spring (lower)	120-501	Primary metering jet (.101") Std. (2)
61-829	Bowl vent arm spring (4737, 38, 41)	121-302	Primary venturi cluster gasket (2)
61-841	Secondary throttle return spring	121-314	Hot idle valve gasket (4739, 40, 41, 4966, 67, 68)
61-873	Fast idle & idle mixture screw spring (3)	121-619	Pump jet housing gasket
61-883	Bowl vent arm spring (4739, 40, 4966, 67, 68)	121-680	Air horn gasket (4737, 38, 39, 40, 41)
63-336	Connector rod retainer (6)	121-690	Air horn gasket (4966, 67, 68)
64-391S	Pump plunger assy. (4737, 38, 39, 40, 41)	122-119S	Pump intake ball check assembly
64-418S	Pump plunger assy. (4966, 67, 68)	136-47	Choke diaphragm connector rod washer
65-59	Step-up piston cover plate (opposite pump)	136-159	Primary throttle shaft washer (4966)
65-60	Step-up piston cover plate (pump side)	136-160	Secondary throttle shaft washer
76-134S	Solenoid lead wire (all exc. 4966)	136-174	Idle speed screw washer
86-67	Solenoid lock washer (all exc. 4966)	136-219	Choke lever retainer washer
96-36	Idle mixture screw limiter cap (2)	136-300	Throttle shaft spring washer
101-65	Choke shaft lever screw	145-304	Choke diaphragm hose
101-74	Throttle shaft lever screw (2)	150A-14	Pin spring (4739, 40, 4966, 67, 68)
101-184S	Pump jet screw assembly (2)	150A-21	Choke diaphragm connector rod pin spring
101-323	Fast idle cam screw	160-207	Step-up piston (4740, 41, 4966) (2)
101-337	Countershaft lever screw	160-223S	Step-up piston assy. (4737, 38, 39, 4967, 68) (2)
101-362S	Air horn screw assembly (8)	163-113	Venturi vent seal (2)
101-419	Secondary throttle valve screw (4)	164-24	Grommet seal (use 164-30)
101-420	Primary throttle valve screw (4)	164-30	Grommet seal
101-421	Pump arm screw (4739, 40, 4966, 67, 68)	169-48S	Hot idle valve assembly (4741)
101-428	Choke diaphragm bracket screw (2)	169-152S	Hot idle valve assy. (4739, 40, 4966, 67, 68)
101-442S	Venturi screw assembly (4)	170BP-224S	Thermostatic coil hoising & rod assy.
101-452	Idle speed screw (use 101-636)	180-203	Solenoid bracket (all exc. 4966)
101-453S	Hot idle valve screw assy. (4739, 40, 41) (2)	181-422S	Fast idle cam assy. (all exc. 4966)
101-558	Choke & air valve screw (4)	181-424S	Fast idle cam assy. (4966)
101-560	Step-up piston cover plate & air valve retainer screw (3)	186-70	Fuel bowl baffle plate (2)
101-584	Pump arm screw (4737, 38, 41)	202-338S	Choke diaphragm & bracket assy. (4737, 39, 4966)
101-604	Solenoid clamp screw (all exc. 4966)	202-404S	Choke diaphragm & bracket assy. (4738, 40, 41, 4967, 68)
101-621	Fast idle speed screw	210-27	Air valve shaft bearing (for adjusting spring tension)
101-625	Idle speed screw (4966)	213-45S	Idle solenoid assy. (all exc. 4966)
101-628	Solenoid bracket screw (all exc. 4966)		
101-636	Idle speed screw (all exc. 4966)		

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

1968-69 "6" CYLINDER DART DL1, EL1, DODGE DD1, DW1, PLYMOUTH DP1, DR1, VALIANT DB1, DV1, DV2, EB1, EB2, EV1, EV2, TAXI

BBS DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOS. 4414S - 4415S - 4601S - 4602S -
4602SA - 4680S - 4714S

YEAR AND MODEL	ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1968 DL1, DV1, S/T	170	4414S	4414S	902-202
1968 DL1, DV1, A/T	170	4415S	4415S	902-202
1968 DL1, DL2, DV1, DV2, A/T	170	4680S	4680S	902-202
1968 DB1, DD1, DL1, DP1, DR1, DW1, Taxi All/T	225	4714S	4714S	902-202
1969 EB1, EB2, EL1, EL2, EV1, EV2, S/T	170	4601S	4601S	902-267
1969 EB1, EB2, EL1, EL2, EV1, EV2 A/T	170	4602S-SA	4602-SA	902-267

CARBURETOR SPECIFICATIONS

Carb. No.	Thro. Bore Size	Main Venturi Size	Vents Air Horn (A) & Body Flange (F) Amt.	Idle Speed Jet Size	Idle Bleed In Body Size	Idle Econ. In Body Size	Idle Port In Flange Size	Top Bleed Hole In Vent Tube Size	Pump Jet Size	Choke Setting	Vacuum Spark Port Size
4414S	1 ⁹ / ₁₆	1 ¹ / ₄	1 (A) 1 (F)	.026	.061	.052	.066 x .030	.0315	.0275	2 P. Rich	.110 x .060
4415S	1 ¹¹ / ₁₆	1 ¹¹ / ₃₂	1 (A) 1 (F)	.028	.062	.052	.195 x .030	.0315	.0394	2 P. Rich	.110 x .060
4601S	1 ⁹ / ₁₆	1 ¹ / ₄	1 (A) None (F)	.028	.061	.052	.125 x .030	.0315	.0275	2 P. Rich	.110 x .060
4602S-SA	1 ¹¹ / ₁₆	1 ¹¹ / ₃₂	1 (A) None (F)	.033	.062	.052	.195 x .030	.0315	.0394	2 P. Rich	.110 x .060
4680S	1 ¹¹ / ₁₆	1 ¹¹ / ₃₂	1 (A) None (F)	.028	.062	.052	.195 x .030	.0315	.0394	2 P. Rich	.110 x .060
4714S	1 ⁹ / ₁₆	1 ¹ / ₄	1 (A) None (F)	.028	.061	.052	.195 x .030	.035	.0275	2 P. Rich	.110 x .060

MOTOR TUNE-UP — BE ACCURATE !

Spark Plug Gap .035"	Breaker Point Setting .017" - .023"	Ignition Timing See Decal In Engine Compartment	Idle Mixture Screw Setting Lock Type	Idle R.P.M. See Decal In Engine Compartment
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CARBURETOR ADJUSTMENTS

FLOAT LEVEL: 1/4 inch 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 ADJUSTMENT: With throttle connector rod in lower hole of throttle lever and plunger pin spring, in bottom hole, and groove of plunger rod (throttle valve seated). Adjust connector rod to give 1/16 inch between pump plunger washer and bushing. **NOTE:** Change plunger pin spring in accord with pump stroke.

FAST IDLE LINKAGE ADJUSTMENT: With fast idle screw on second step and against shoulder of first step of cam. Adjust choke connector rod at upper angle to give 5/64 inch between top edge of choke valve and inner wall of air horn.

FAST IDLE THROTTLE VALVE CLEARANCE. (4414, 4714 — .016"); (4415 — .020") (4601S — .022") (4602, A — .028") (4680 — .015") between lower edge of valve and bore with fast idle screw on second step and against shoulder of first step of cam.

FAST IDLE ON CAR. (S/T — 1600) (A/T — 1800) R.P.M. hot engine with fast idle screw on second step and against shoulder of first step of cam.

DASHPOT ADJUSTMENT: (All except 4415, 4714) With throttle valve seated and diaphragm stem fully depressed adjust dash-pot to give 9/64" between stem and tang on throttle lever.

UNLOADER: 3/16 inch 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 (4414S — 5/32 inch); (4714 — 9/64 inch); (4415, 4601, 4602, A, 4680 — 7/64 inch); 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 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	Part No.	PART NAME
1A-153	Flange gasket	105A-60	Dash pot nut (all except 4415)
2-278	Throttle valve (4414, 4714)	115-345	Throttle connector rod (4415)
2-292	Throttle valve (4415-4680)	115-370	Choke connector rod
2-301	Throttle valve (4602, A)	115-370	Choke diaphragm connector rod
2-302	Throttle valve (4601)	115-370	Throttle connector rod (4414, 4680, 4714)
3-1560S	Throttle shaft and lever Assy. (4414, 4415, 4680, 4714)	115-456	Throttle connector rod (4601, 4602, A)
3-1681S	Throttle shaft and lever Assy. (4601, 4602, A)	116-13	Pump intake and discharge check ball (2)
7-199	Choke valve	120-2635	Main metering jet Assy. (400-408cc)
11B-35	Rivet plug		2 sizes lean (4415)
11B-79	Rivet plug	120-2645	Main metering jet Assy. (337-343cc)
11B-108	Pump jet rivet plug		1 size lean (4414)
11B-220	High speed passage rivet plug	120-2655	Main metering jet Assy. (320-326cc)
11B-303	Rivet plug		2 sizes lean (4414)
14-811	Choke lever	120-2775	Main metering jet Assy. (417-423cc)
14-867S	Choke lever and shaft assembly		1 size lean (4415)
20-116	Main metering jet gasket (4414, 4415)	120-2935	Main metering jet Assy. (436-444cc)
20-146	Step-up piston gasket		Std. (4415)
20-203	Needle seat gasket	120-2995	Main metering jet Assy. (360-366cc)
21-222S	Float and lever assembly		Std. (4414) (1 size lean — 4714)
24-23	Float lever pin	120-3005	Main metering jet Assy. (337-343cc)
25-1020S	Needle and seat assembly (flared tip)		1 size lean (4601 (2 size lean — 4714))
30A-181	Idle mixture screw (4601, 02, A — early prod.)	120-3015	Main metering jet Assy. (320-326cc)
30A-187	Idle mixture screw package (consists of 30A-193, 61-57, 101-562, 103-19) (4414, 4415, 4680, 4714)		2 sizes lean (4601)
30A-197	Idle mixture screw (4601, 02, A — late prod.)	120-3095	Main metering jet Assy. (380-386cc)
38A-117	Pump plunger bushing		Std. (4601, 4714)
48-194	Pump jet (4414, 4601, 4714)	120-3225	Main metering jet Assy. (440cc) Std. (4680)
48-219	Pump jet (4415, 4602, A, 4680)	120-3265	Main metering jet Assy. (420cc) Std. (4602, A)
53A-372	Pump arm (4601, 4602, A)	121-332	Body flange gasket (4414, 4601, 4714)
53A-450	Pump arm (4414, 4415, 4680, 4714)	121-336	Body flange gasket (4415, 4602, A, 4680)
	Idle speed screw spring	121-526	Body gasket (4414, 4415, 4680, 4714)
		121-643	Body gasket (4601, 4602, A)
61-226	Step-up piston spring (4414)	123-765	Idle orifice tube and plug Assy. (.028")
61-538	Step-up piston spring (4415, 4601, 4602, A, 4680, 4714)		(4415, 4601, 4680, 4714)
61-653	Pump spring (4414, 4601, 4714)	123-875	Idle orifice tube and plug Assy. (.026") (4414)
61-761	Pump spring (4415, 4602, A, 4680)	123-885	Idle orifice tube and plug Assy. (.033") (4602, A)
61-800	Choke lever spring	136-218	Pump plunger washer
61-873	Idle adjustment screw spring (4601, 02, A)	145-285	Main vent tube (4415, 4602, A, 4680)
63-169	Float lever pin retainer	145-294	Choke diaphragm hose
64-226S	Pump plunger and rod assembly	145-378	Main vent tube (4414, 4601)
75-1615	Step-up rod (.026") (4415)	145-397	Main vent tube (4714)
75-1651	Step-up rod (.031") (4414 use 75-1796)	150A-10	Throttle connector rod pin spring
75-1794	Step-up rod (.033 x .027) (4414) (use 75-1796)	150A-21	Choke diaphragm connector rod pin spring
75-1796	Step-up rod (.032" x .027") (4414, 4601)	150A-22	Pump plunger pin spring
75-1813	Step-up rod (.033" x .027") (4680)	160-2615	Step-up piston and plate assembly (4415)
75-1826	Step-up rod (.034" x .024") (4714)	160-3025	Step-up piston and plate assembly (4414, 4601, 4602, A, 4680, 4714)
75-1831	Step-up rod (.028" x .026") (4602, A)	170BC-8675	Thermostatic coil housing and rod assembly
96-36	Idle screw limiter cap (4601, 02, A — late prod.)		(4414, 4415, 4680, 4714)
96-37	Idle screw limiter cap (4601, 02, A — early prod.)	170BJ-9835	Thermostatic coil & housing Assy. (4601, 4602, A)
101-296	Idle speed screw		Dash pot bracket (4414, 4680)
101-307S	Bowl cover screw assembly	180-146	Dash pot bracket (4601, 4602, A)
101-318	Pump arm screw	181-341	Fast idle cam (4415, 4601, 4602, A, 4680, 4714)
101-359S	Air horn screw assembly	181-350	Fast idle cam (4414)
101-374	Step-up piston plate guide screw	202-152S	Dash pot assembly (all except 4415, 4714)
101-472	Fast idle speed screw	202-329S	Choke diaphragm and bracket assembly
101-473	Fast idle cam screw		(4414, 4415, 4680, 4714)
101-537	Choke diaphragm bracket screw		Choke diaphragm and bracket assembly (4601)
101-544S	Dash pot bracket screw Assy. (all except 4415, 4714)	202-336S	Choke diaphragm and bracket assembly (4602, A)
101-558	Choke & throttle valve screw	202-346S	Choke diaphragm and bracket assembly (4602, A)

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

1968-69 "V8" CHRYSLER DC1, EC1, EC2, EC3 DODGE DD1, DD2, DD3, ED2, ED3, DW1, DW2, EW1, EW2, PLYMOUTH DP2, EP2, DR2, ER2, DODGE TRUCK DD1, ED1, DD2, ED2, DD3, ED3, DW1, DW2

BBD DUAL DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOS. 4422S - 4423S - 4578S - 4613S -
4613SA - 4614S - 4748S - 4748SA - 4774S

YEAR AND MODEL	ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1968 DC1, DD1, DD2, DD3, DW1, DW2, DP2, DR2 S/T	383	4422S	4422S	902-256
1968 DC1, DD1, DD2, DD3, DW2, DP2, DR2 A/T	383	4423S	4578S	902-256
1968 DC1, DD1, DD2, DD3, DW2, DP2, DR2 A/T	383	4578S	4578S	902-256
1969 EC1, EC2, EC3, ED2, ED3, ER2, EP2, EW1, EW2 S/T	383	4613S-SA	4613S-SA	902-256
1969 EC1, EC2, EC3, ED1, ED2, ED3, EP2, ER2, EW1, EW2 A/T	383	4614S	4614S	902-256
1969 Truck ED1, ED2, ED3 S/T	383	4748S-SA	4748S-SA	902-256
1969 EC1, ED1, ED2, ED3, EP2, ER2, EW2 A/T	383	4774S	4774S	902-256

CARBURETOR SPECIFICATIONS

CARB. NO.	THRO. BORE SIZE	MAIN VENTURI SIZE	IDLE SPEED JET IN VENTURI COVER ASSY. SIZE	IDLE BLEED IN CLUSTER SCREW SIZE	IDLE ECON. IN CLUSTER SCREW SIZE	IDLE BLEED IN BODY SIZE	IDLE PORT IN FLANGE SIZE	BLEED HOLES IN VENTURI COVER SIZE	PUMP JET IN VENTURI SIZE	CHOKE SETTING	VACUUM SPARK PORT IN FLANGE SIZE
4422S	1 ⁹ / ₁₆	1 ⁵ / ₁₆	.035	.059	.059	.040	.198 x .030	.029	.0275	2 P. Rich	.110 x .060
4423S	1 ⁹ / ₁₆	1 ⁵ / ₁₆	.035	.059	.059	.040	.198 x .030	.029	.0275	2 P. Rich	.110 x .060
4578S	1 ⁹ / ₁₆	1 ⁵ / ₁₆	.035	.062	.059	.040	.198 x .030	.029	.0275	2 P. Rich	.110 x .060
4613S-SA	1 ⁹ / ₁₆	1 ⁵ / ₁₆	.035	.059	.059	.040	.198 x .030	.029	.0275	2 P. Rich	.110 x .060
4614S	1 ⁹ / ₁₆	1 ⁵ / ₁₆	.035	.063	.055	.040	.198 x .030	.029	.0275	2 P. Rich	.110 x .060
4748S-SA	1 ⁹ / ₁₆	1 ⁵ / ₁₆	.035	.059	.059	.040	.198 x .030	.029	.0275	2 P. Rich	.110 x .060
4774S	1 ⁹ / ₁₆	1 ⁵ / ₁₆	.035	.063	.055	.040	.198 x .030	.029	.0275	2 P. Rich	.110 x .060

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug Gap .035"	Breaker Point Setting .014"-.019"	Ignition Timing See Decal In Engine Compartment	Idle Air Adjustment Screw ("S" Carbs except 4774S) Setting (One Only) Turn Clockwise to Lean ("SA" Carbs & 4774S) Lock Type	Idle RPM See Decal In Engine Compartment
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Carter
Carburetor
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CARBURETOR ADJUSTMENTS

FLOAT LEVEL: 11/32 inch 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 valves tightly closed). 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 ADJUSTMENT: With fast idle screw on second step and against shoulder of first step of cam. Adjust tang on choke lever to give 1/8 inch between top edge of choke valve and inner wall of air horn.

FAST IDLE THROTTLE VALVE CLEARANCE: .020 inch between lower edge of valve and bore with adjusting screw on second step and against shoulder of first step of cam.

FAST IDLE ON CAR: (1600 R.P.M.) hot engine, with fast idle screw on second step and against shoulder of first step of cam.

UNLOADER: 1/4 inch between top edge of choke valve and inner wall of air horn with throttle valve wide open. To adjust, bend unloader on fast idle arm.

BOWL VAPOR VENT ADJUSTMENT: 3/64 inch between the heel (low side of seal) of the rubber grommet and its seat on the bowl cover with throttle valve seated. To adjust, bend lip on vapor vent arm. If the pump has been changed from standard setting, readjust the bowl vapor vent.

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 (4423, 4578-11/64") (4422 - 15/64") (4613, 4614, 4748, 4774 - 5/32") 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	Part No.	PART NAME
1A-152	Flange gasket	101-419	Throttle valve screw (4)(2)
2-295	Throttle valve (4422, 4423, 4578) (2)	101-428	Choke diaphragm bracket screw (2)
2-305	Throttle valve (4613, A, 4614, 4748, A, 4774) (2)	101-466	Step-up piston plate screw
3-1626S	Throttle shaft & lever assy. (4423) (use 3-1672S)	101-472	Fast idle speed screw (4613, A, 4614, 4748, A, 4774) (2)
3-1672S	Throttle shaft & lever assy. (4422, 4423, 4578) (2)	101-557	Venturi cluster screw (4614, 4774) (2)
3-1685S	Throttle shaft & lever assy. (4613, A, 4614, 4748, A, 4774)	101-558	Choke valve screw (2)
7-281	Choke valve (use 7-304)	101-569	Venturi cluster screw (4578) (2)
7-304	Choke valve	101-593	Venturi cluster screw (4422, 4423, 4748, A) (2)
14-848S	Choke lever and shaft assembly (use 14-901S)	101-596	Venturi cluster screw (4613-A) (2)
14-850S	Choke lever assembly	103-14	Lead shot
14-901S	Choke lever & shaft assembly	103-15	Lead shot (2)
20-146	Step up piston gasket	111-82	Pump arm
20-203	Needle seat gasket	115-300	Throttle connector rod
21-196S	Float and lever assembly	115-301	Fast idle connector rod
24-23	Float lever pin	115-395	Choke diaphragm connector rod
25-1003S	Needle and seat assembly (flared tip)	116-13	Pump discharge check ball
30A-166	Idle air screw (all "S" carbs except 4774)	116-18	Pump intake check ball
30A-196	Idle mixture screw (4613A, 4748A, 4774) (2)	118-294S	Venturi cover assembly
53A-426S	Pump arm and countershaft assembly	120-296S	Main metering jet (530-540CC)
53A-429S	Fast idle arm and screw assembly		(1 size lean 4422) (std. - 4774) (2)
53A-470	Loose lever arm	120-302S	Main metering jet (500-510CC)
61-58	Idle speed screw spring		2 sizes lean (4422) (2)
61-208	Fast idle speed screw spring	120-304S	Main metering jet (555-565CC) Std. (4422) (2)
61-451	Pump spring	120-311S	Main metering jet (552-562CC)
61-467	Idle air screw spring ("S" carbs except 4774)		Std. (4423, 4578, (4613, A - use 120-431) (2)
61-484	Step-up piston spring	120-323S	Main metering jet (595CC) STD (4614) (2)
61-528	Pump spring (use 61-451)	120-329S	Main metering jet (530-540CC) STD (4748, A) (2)
61-873	Idle mixture screw spring (4613A, 4748A, 4774) (2)	120-431	Main metering jet (575CC) std. (4613, A) (2)
63-252	Float lever pin retainer	121-307	Venturi housing gasket
64-210S	Pump plunger and rod assembly	121-560	Venturi cover gasket
75-1644	Metering rod (.031 x .026) (4774) (2)	121-615	Body flange gasket
75-1652	Step up rod (.035 x .027) (4422) (2)	121-616	Body gasket
75-1738	Stepup rod (.038x.034) (4423, 4578, 4613, A, 4748, A) (2)	136-187	Pump spring retainer washer
75-1829	Step up rod (.044 x .041) (4614) (2)	145-303	Choke diaphragm hose
96-36	Idle mixture screw limiter cap (4613A, 4748A, 4774) (2)	150A-10	Pin spring (2)
101-6	Pump arm screw	150A-21	Choke diaphragm pin spring
101-70	Fast idle arm screw	160-292S	Step up piston and plate assembly
101-296	Idle & fast idle speed screw (4422, 4423, 4578) (2)	164-22	Grommet seal
101-296	Idle speed screw (4613, A, 4614, 4748, A, 4774) (8)	170BC-945S	Thermostatic coil housing & rod assembly
101-307S	Air horn screw assembly	181-337	Fast idle cam
101-362S	Body flange screw assembly (4)	202-328S	Choke diaphragm & bracket assy. (4422, 4423, 4578) (2)
		202-337S	Choke diaphragm & bracket assy. (4613, A, 4614, 4748, A, 4774) (2)

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

CARTER.

FORM 5533A
OCTOBER, 1968
Revised March, 1970

1969 "V8" DART EL2 VALIANT EB2, EV2 - DODGE ED2, EW2 PLYMOUTH EP2, ER2 DODGE TRUCK A-100

BBD DUAL DOWN-DRAFT CLIMATIC CONTROL CARBURETORS Nos. 4605S - 4606S - 4607S - 4608S -
4609S - 4610S

YEAR AND MODEL		ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1969 EL1, EL2, EV1, EV2	S/T	273	4605S	4605S	902-257
1969 EL1, EL2, EV1, EV2	A/T	273	4606S	4606S	902-257
1969 EB1, 2, ED2, 3, EL1, 2, EP1, 2, ER1, 2, EV1, 2, EW1, 2, A-100	S/T	318	4607S	4607S	902-263
1969 EB1, 2, ED2, 3, EL1, 2, EP1, 2, ER1, 2, EV1, 2, EW1, 2, A-100	A/T	318	4608S	4608S	902-263
1969 ED2, 3, EP1, 2 (Canada)	S/T	318	4609S	4609S	902-263
1969 ED2, 3, EP1, 2 (Canada)	A/T	318	4610S	4610S	902-263

CARBURETOR SPECIFICATIONS

Carb. No.	Thro. Bore Size	Main Venturi Size	Idle Speed Jet Size	Idle Bleed In Cluster Screw Size	Idle Econ. In Cluster Screw Size	Idle Port In Body Flange Size	Pump Jet Size	Choke Setting	Vacuum Spark Port Size
4605S	1 $\frac{7}{16}$	1 $\frac{1}{16}$	.0295	.059	.059	.229x.030	.028	Index	.110x.060
4606S	1 $\frac{7}{16}$	1 $\frac{1}{16}$	.0295	.059	.059	.229x.030	.028	Index	.110x.060
4607S	1 $\frac{7}{16}$	1 $\frac{3}{16}$	.0295	.063	.059	.229x.030	.028	Index	.110x.060
4608S	1 $\frac{7}{16}$	1 $\frac{3}{16}$	.0295	.063	.059	.229x.030	.028	Index	.110x.060
4609S	1 $\frac{7}{16}$	1 $\frac{3}{16}$	.0295	.059	.067	.229x.030	.028	Index	.110x.045
4610S	1 $\frac{7}{16}$	1 $\frac{3}{16}$	.0295	.059	.067	.229x.030	.028	Index	.110x.045

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug Gap .035"	Breaker Point Setting .014"-.019"	Ignition Timing See Decal In Engine Compartment	Idle Mixture Screw Setting Lock Type	Idle R.P.M. See Decal In Engine Compartment
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CARBURETOR ADJUSTMENTS

FLOAT LEVEL: 1/4 inch 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 ADJUSTMENT: Install pump connector rod in center hole (medium stroke) of throttle lever and inner hole of pump arm. With plunger retainer in center hole and groove of plunger rod, (throttle valves seated) adjust pump connector rod to give 1/16 inch between pump plunger washer and bushing in bowl cover. NOTE: Change plunger pin spring in accord with pump stroke.

FAST IDLE LINKAGE ADJUSTMENT: With fast idle screw on second step and against shoulder of first step of cam, adjust fast idle connector rod to give 3/32 inch between top edge of choke valve and inner wall of air horn.

FAST IDLE THROTTLE VALVE CLEARANCE: .015 inch between lower edge of valve and bore with adjusting screw on second step and against shoulder of first step of cam.

FAST IDLE ON CAR: (4605-1500) (4606-1600) (4608-4610-1700) (4607, 4609-1300) R.P.M. hot engine with fast idle screw on second step and against shoulder of first step of cam. Adjust fast idle screw.

UNLOADER: 1/4 inch 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 ADJUSTMENT: With vacuum diaphragm plate (not stem) bottomed close choke as far as possible without forcing. Adjust connector rod to give (4605, 4607, 4609-5/32") (4606-3/32") (4608, 4610-9/64") 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 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.

DASH POT ADJUSTMENT: 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	Part No.	PART NAME
1A-222	Flange gasket	101-5445	Body screw assembly. (2)
2-303	Throttle valve (4605, 4606, 4607, 4608)	101-558	Choke valve screw (2)
2-304	Throttle Valve (4609, 4610)	101-563	Idle speed screw
3-16925	Throttle shaft and lever assembly (4605)	101-565	Fast idle cam screw (2)
3-16935	Throttle shaft and lever assembly (4606)	101-569	Venturi cluster screw (4607, 4608) (2)
3-16945	Throttle shaft and lever assembly (4607, 4609)	101-572	Venturi cluster screw (4609, 4610) (2)
3-16955	Throttle shaft & lever assembly (4608, 4610)	101-593	Venturi cluster screw (4605, 4606) (2)
7-172	Choke valve	101-614	Fast idle speed screw (4605, 6)
14-8475	Choke lever and shaft assembly	105A-60	Dash pot lock nut (4605, 4607, 4609) (2)
14-8505	Choke lever assembly	108-94	Choke connector rod spacer
20-146	Step-up piston gasket	115-265	Throttle connector rod (4606, 4608, 4610)
20-203	Needle seat gasket	115-399	Choke diaphragm connector rod
21-2355	Float and lever assembly	115-409	Choke connector rod
24-23	Float lever pin	115-424	Throttle connector rod (4605, 4607, 4609)
25-10035	Needle and seat assembly (flared tip) (4607, 4608, 4609, 4610)	116-13	Pump discharge check ball
25-10045	Needle and seat assembly (flared tip) (4605, 4606)	116-18	Pump intake check ball
30A-182	Idle mixture screw (early prod.) (2)	118-2755	Venturi cover assembly
30A-198	Idle mixture screw (late prod.) (2)	120-2945	Main metering jet assy. (288-294cc) Std. (4605, 4606) (2)
53A-448	Pump arm	120-2975	Main metering jet assy. (272-278cc) 1 size lean (4605, 4606) (2)
61-58	Idle & fast screw spring (2)	120-2985	Main metering jet assy. (257-263cc) 2 sizes lean (4605, 4606) (2)
61-191	Fast idle speed screw spring (use 61-58)	120-2995	Main metering jet (360-366cc) Std. (4607, 4608, 4609, 4610) (2)
61-538	Step-up piston spring	120-3005	Main metering jet (337-343cc) 1 size lean (4607, 4608, 4609, 4610) (2)
61-653	Pump spring	120-3015	Main metering jet (320-326cc) 2 sizes lean (4607, 4608, 4609, 4610) (2)
61-873	Idle mixture screw spring (late prod.) (2)	121-274	Body gasket (use 121-672)
61-879	Idle mixture screw spring (early prod.) (2)	121-285	Venturi housing gasket
63-238	Float pin retainer	121-531	Body flange gasket
63-252	Float lever pin retainer (use 63-238)	121-561	Venturi cover gasket
63-336	Choke connector rod retainer (2)	121-672	Body gasket
63-361	Plunger shaft retainer	136-218	Pump plunger washer
64-3715	Pump plunger and rod assembly	145-303	Choke diaphragm hose
75-1642	Step up rod (.025" x .022") (4609) (2)	150A-10	Pin spring (2)
75-1645	Step up rod (.026" x .022") (4605) (4610) (2)	150A-21	Choke diaphragm connector rod pin spring
75-1723	Step up rod (.027" x .025") (4606) (2)	160-2905	Step-up piston and plate assembly (use 160-3105)
75-1727	Step up rod (.029" x .025") (4607, 4608) (2)	160-3105	Step-up piston & plate assy.
96-36	Idle mixture screw limiter cap (late prod.)	170BJ-9445	Thermostatic coil, housing and rod assembly
96-37	Idle mixture screw limiter cap (early prod.)	180-144	Dashpot bracket (4605, 4607, 4609)
101-70	Pump arm screw	181-415	Fast idle cam (4605, 4607, 4609)
101-296	Fast idle speed screw (4607, 8, 9, 10)	181-416	Fast idle cam (4606, 4608, 4610)
101-3075	Air horn screw assembly (4)	186-149	Fuel bowl baffle plate
101-3625	Air horn screw assembly (2)	202-2775	Dash pot assy. (4605, 4607, 4609)
101-374	Step-up piston plate screw	202-3355	Choke diaphragm and bracket assy. (4605, 4607, 4609)
101-419	Throttle valve screw	202-3415	Choke diaphragm and bracket assy. (4606, 4608, 4610)
101-428	Choke diaphragm bracket screw (2)		
101-472	Fast idle speed screw (4605, 06 - use 101-614) (4607, 8, 9, 10 - use 101-296)		
101-5435	Body flange screw assembly (2)		

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

1969 "6" DODGE TRUCK

BBS DOWN-DRAFT CLIMATIC CONTROL AND MANUAL CHOKE CARBURETORS NOS. 4629S - 4630S -
4658S - 4659S - 4703S -

YEAR AND MODEL			ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1969 ED1, EW1 (C.A.P.)	M/Choke	S/T	225	4629S	4629S	902-267
1969 ED1, ED2, ED3 (C.A.P.)	A/Choke	A/T	225	4630S	4630S	902-267
1969 ED4, ED5, EL6, EP4, ES5, EW5	M/Choke	M/T	225	4658S	4658S	902-267
1969 ED2, ED3	A/Choke	A/T	225	4659S	4659S	902-267
1969 ED2, ED3 (C.A.P.)	M/Choke	M/T	225	4703S	4703S	902-267

CARBURETOR SPECIFICATIONS

CARB. NO.	THRO. BORE SIZE	MAIN VENTURI SIZE	IDLE SPEED JET SIZE	IDLE BLEED IN BODY SIZE	IDLE ECON. IN BODY SIZE	IDLE PORT SIZE	TOP BLEED HOLE IN VENT TUBE SIZE	PUMP JET SIZE	CHOKE SETTING	VACUUM SPARK PORT SIZE
4629S	1 ¹¹ / ₁₆	1 ¹¹ / ₃₂	.0315	.0629	.052	.190x.030	.0315	.0275	Manual	.110x.060
4630S	1 ¹¹ / ₁₆	1 ¹¹ / ₃₂	.0295	.0629	.052	.195x.030	.0315	.0275	2 P. Rich	.110x.060
4658S	1 ¹¹ / ₁₆	1 ¹¹ / ₃₂	.028	.0629	.052	.190x.030	.0315	.0275	Manual	.110x.060
4659S	1 ¹¹ / ₁₆	1 ¹¹ / ₃₂	.028	.0629	.052	.195x.030	.0315	.0275	2 P. Rich	.110x.060
4703S	1 ¹¹ / ₁₆	1 ¹¹ / ₃₂	.0315	.0629	.052	.190x.030	.0315	.0275	Manual	.110x.060

MOTOR TUNE-UP - BE ACCURATE!

Spark Plug .035"	Breaker Point Setting .020"	Ignition Timing T.D.C.	Idle Mixture Screw 4629, 4630, 4703 (Lock Type) 4658, 4659 Removable	Idle R.P.M. 750
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Carter
Carburetor
Division



CARBURETOR ADJUSTMENTS

FLOAT LEVEL: $\frac{1}{4}$ " 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 lower hole (long stroke) of throttle lever and plunger pin spring in lower hole and groove of plunger rod, (throttle valve seated) adjust connector rod to give $\frac{1}{16}$ " between pump plunger washer and bushing. NOTE: Change plunger pin spring in accord with pump stroke.

FAST IDLE LINKAGE: (4629, 4658, 4703) with fast idle screw on cam index; (4630, 4659) with fast idle screw on second step and against shoulder of first step of cam. Adjust choke connector rod to give (4629, 4658, 4703 - $\frac{5}{32}$ inch), (4630 - 4659 - $\frac{5}{64}$ inch) between top edge of choke valve and inner wall of air horn.

FAST IDLE THROTTLE VALVE CLEARANCE: (4629, 4658, 4703 - .030 inch) with fast idle screw on cam index; (4630, 4703 - .020 inch) with fast idle screw on second step and against shoulder of first step of cam.

FAST IDLE ON CAR: (4630, 4703) 700 R.P.M., hot engine with fast idle screw on lowest speed step of cam, (4629, 4658, 4703) 1550 R.P.M. hot engine with fast idle screw on second step and against shoulder of first step of cam. Trans. in neutral.

UNLOADER: (4630, 4659) $\frac{3}{16}$ " 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 (4630, 4659): With vacuum diaphragm plate (not stem) bottomed, close choke valve as far as possible without forcing. Adjust connector rod to give $\frac{7}{64}$ inch 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: (4629) With throttle held at 2000 R.P.M. adjust dashpot so that stem just contacts lever. Tighten lock nut.

CHOKE ADJUSTMENT (Cross Over Type) SEE FORM 3661 SERVICE AND ADJUSTMENT PROCEDURE: 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	Part No.	PART NAME
1A-153	Flange gasket (w/o governor)	96-37	Idle mixture screw limiter cap (early prod. 4629, 30, 4703)
1A-157	Flange gasket (w/governor) (4629, 4658)	101-296	Idle speed screw
2-307	Throttle valve	101-307S	Bowl cover screw Assy. (2)
3-1703S	Throttle shaft and lever Assy. (4629, 4658, 4703)	101-318	Pump arm screw
3-1704S	Throttle shaft and lever Assy. (4630, 4659)	101-359S	Air born screw Assy. (4629-3) (all others - 4)
7-1955	Choke valve assembly (4629, 4658, 4703)	101-374	Step-up piston plate guide screw
7-199	Choke valve (4630, 4659)	101-472	Fast idle speed screw (4630, 59)
11B-35	Rivet plug	101-473	Fast idle cam screw
11B-79	Rivet plug (6)	101-490	Fast idle speed screw (4629, 58, 4703)
11B-108	Pump jet rivet plug	101-537	Choke bracket screw (2)
11B-220	High speed passage rivet plug	101-544S	Dashpot bracket screw (4629)
11B-303	Rivet plug	101-558	Choke and throttle valve screw (4)
14-811	Choke lever (4630, 4659)	105A-60	Dashpot lock nut (4629)
14-867	Choke shaft and lever Assy. (4630, 4659)	115-347	Pump connector Rod (all except 4629)
14-870S	Choke lever and shaft Assy. (4629, 4658, 4703)	115-370	Choke connector rod
20-146	Step up piston gasket	115-413	Pump connector rod (4629)
20-203	Needle seat gasket	115-398	Choke diaphragm connector rod (4630, 4659)
21-222S	Float and lever Assy.	116-13	Pump intake and discharge check ball (2)
24-23	Float lever pin	120-293S	Main Metering Jet (440CC) (4703)
25-1020S	Needle and seat assembly (flared tip)	120-322S	Main Metering Jet assembly (440CC) Std. (all except 4703)
30A-181	Idle mixture screw (4658, 4659) (early prod. 4629, 30, 4703)	121-336	Body flange gasket (Use 121-656)
30A-197	Idle mixture screw (late prod. 4629, 30, 4703)	121-643	Body gasket
38A-117	Pump plunger bushing	121-656	Body flange gasket
48-194	Pump jet	123-74S	Idle tube Assy. (4629, 4703)
53A-450	Pump arm	123-76S	Idle tube Assy. (4658, 4659)
61-58	Idle and Fast idle speed screw spring (2)	123-84S	Idle tube Assy. (4630)
61-484	Step up piston spring (4629, 4658, 4703)	136-218	Pump plunger washer
61-538	Step up piston spring (4630, 4659)	145-28S	Main vent tube
61-761	Pump spring	145-294	Choke diaphragm hose (4630, 4659)
61-800	Choke lever spring (4630, 4659)	150A-10	Throttle connector rod pin spring
61-866	Choke pull back spring (4629, 4658, 4703)	150A-21	Pin spring (4630, 59)
61-873	Idle mixture screw spring	150A-22	Pump plunger pin spring
62-261S	Choke tube bracket assembly (4629, 4658, 4703) (use 62-286S)	160-261S	Step-up piston & plate Assy. (4703)
62-286S	Choke tube bracket Assy. (4629, 58, 4703)	160-302S	Step-up piston and plate Assy. (all except 4703)
63-169	Float lever pin retainer	170BJ-983S	Thermostatic coil, housing and rod Assy. (4630, 4659)
64-226S	Pump plunger and rod assembly	180-182	Dashpot bracket (4629)
75-1634	Step up rod (.034") (4703) (std.)	181-307	Fast idle cam (4629, 4658, 4703)
75-1802	Step up rod (.033"x .030") std. (4629, 4630, 4658, 4659)	181-341	Fast idle cam (4630, 4659)
96-36	Idle mixture screw limiter cap (late prod. 4629, 30, 4703)	202-152S	Dashpot Assy. (4629)
		202-346S	Choke diaphragm Assy. (4630, 4659)

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

1969 "V8" CHRYSLER EC1, EC2, EC3 DART EL1, EL2 & BARRACUDA EB1, EB2 DODGE ED2, EW1, EW2 PLYMOUTH EP1, EP2, ER1, ER2

AVS FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL CARBURETORS Nos. 4611S-SA - 4612S-SA - 4615S-SA -
4616S-SA - 4617S-SA - 4618S-SA - 4638S-SA - 4639S-SA - 4640S-SA - 4682S-SA - 4711S-SA

YEAR AND MODEL				ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1969	EB1, EB2, EL1, EL2		S/T	340	4611S-SA	4611S-SA	902-269
1969	EB1, EB2, EL1, EL2	W/O A.C.	A/T	340	4612S-SA	4612S-SA	902-269
1969	EB1, EB2, EL1, EL2	W/A.C.	A/T	340	4639S-SA	4639S-SA	902-269
1969	EC1, EB2, ED2, EL2, EP2, ER2, EW2	W/A.C.	S-T	383	4711S-SA	4711S-SA	902-270
1969	EC1, EB2, ED2, EL2, EP2, ER2, EW2	W/O A.C.	A/T	383	4616S-SA	4616S-SA	902-270
1969	ER1, ER2, EW1, EW2	W/O A.C.	S/T	383	4615S-SA	4615S-SA	902-270
1969	ER1, ER2, EW1, EW2	W/O A.C.	A/T	383	4682S-SA	4682S-SA	902-270
1969	EC1, EC2, EC3, EP1, EP2, ER1, ER2, EW2	W/A.C.	A/T	383	4638S-SA	4638S-SA	902-270
1969	EC1, EC2, EC3, ED2, EP2, ER2, EW1, EW2	W/O A.C.	S/T	440	4617S-SA	4617S-SA	902-270
1969	EC1, EC2, EC3, ED2, EP2, ER2, EW2	W/O A.C.	A/T	440	4618S-SA	4618S-SA	902-270
1969	EC1, EC2, EC3, ED2, EP2, ER2, EW2	W/A.C.	A/T	440	4640S-SA	4640S-SA	902-270

CARBURETOR SPECIFICATIONS

Carb. No.	Thro. Bore Prim. & Sec.	Main Venturi Prim.	Idle Speed Jet In Prim. Venturi	Idle By- Pass In Prim. Venturi	Idle Econ. In Prim. Venturi	Idle Bleed In Prim. Venturi	Idle Port	Anti- Per. Bleed In Prim. Venturi Sec. In Air Horn	Pump Jet In Prim. Venturi	Choke Setting	Vacuum Spark Port
4611S-SA	$1\frac{7}{16}$ (P) $1\frac{11}{16}$ (S)	$1\frac{3}{16}$	.033	.0492	.0492	.0465	.200 x .030	.031 (P) .067 (S)	.035	Index	None
4612S-SA	$1\frac{7}{16}$ (P) $1\frac{11}{16}$ (S)	$1\frac{3}{16}$	.031	.052	.0492	.035	.200 x .030	.031 (P) .067 (S)	.035	Index	None
4615S-SA	$1\frac{7}{16}$ (P) $1\frac{11}{16}$ (S)	$1\frac{3}{16}$	.033	.053	.0465	.0492	.200 x .030	.031 (P) .067 (S)	.035	Index	None
4616S-SA	$1\frac{7}{16}$ (P) $1\frac{11}{16}$ (S)	$1\frac{3}{16}$	.031	.052	.0492	.040	.200 x .030	.031 (P) .067 (S)	.035	Index	None
4617S-SA	$1\frac{11}{16}$ (P) $1\frac{11}{16}$ (S)	$1\frac{7}{16}$	.035	.0492	.0492	.040	.225 x .030	.035 (P) .067 (S)	.035	Index	None
4618S-SA	$1\frac{11}{16}$ (P) $1\frac{11}{16}$ (S)	$1\frac{7}{16}$	.031	.049	.059	.040	.254 x .030	.035 (P) .067 (S)	.035	Index	None
4638S-SA	$1\frac{7}{16}$ (P) $1\frac{11}{16}$ (S)	$1\frac{3}{16}$	.031	.052	.0492	.040	.200 x .030	.031 (P) .067 (S)	.035	Index	None
4639S-SA	$1\frac{7}{16}$ (P) $1\frac{11}{16}$ (S)	$1\frac{3}{16}$	.031	.0492	.0492	.035	.200 x .030	.031 (P) .067 (S)	.035	Index	None
4640S-SA	$1\frac{11}{16}$ (P) $1\frac{11}{16}$ (S)	$1\frac{7}{16}$	.031	.049	.059	.040	.254 x .030	.035 (P) .067 (S)	.035	Index	None
4682S-SA	$1\frac{7}{16}$ (P) $1\frac{11}{16}$ (S)	$1\frac{3}{16}$	.031	.0492	.0492	.040	.200 x .030	.031 (P) .067 (S)	.035	Index	None
4711S-SA	$1\frac{7}{16}$ (P) $1\frac{11}{16}$ (S)	$1\frac{3}{16}$	.033	.052	.0465	.0492	.200 x .030	.031 (P) .067 (S)	.035	Index	None

Carter
Carburetor
Division



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

MOTOR TUNE-UP — BE ACCURATE

Spark Plug Gap .035"	Breaker Point Setting .014"-.019"	Ignition Timing See Decal in Engine Compartment	("S" Carbs Idle Air Adjustment screw setting (one only) Turn Clockwise To Lean (SA" Carbs) (Lock Type)	Idle R.P.M. See Decal in Engine Compartment
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CARBURETOR ADJUSTMENTS

FLOAT ALIGNMENT: Side of floats parallel to edge of casting. Minimum clearance between lever and air horn lugs without binding. To adjust, bend float lever.

FLOAT LEVEL: (4615, A, 16, A, 38, A, 82, A, 4711, A — 5/16 inch) (4611, A, 12, A, 17, A, 18, A, 39, A, 40, A — 7/32 inch) plus or minus 1/64 inch, between top of floats (at outer end) and air horn gasket. To adjust, bend float lever.

FLOAT DROP: 23/32 inch plus or minus 1/16 inch between top of floats (at outer end) and air horn gasket. To adjust, bend stop tabs on float brackets.

PUMP: 7/16 inch from the top of the bowl cover to the top of the plunger shaft with throttle connector rod in center hole (medium stroke) of pump arm with throttle valves tightly closed. To adjust, bend throttle connector rod.

FAST IDLE LINKAGE: With fast idle screw on second step and against shoulder of first step of cam, adjust choke connector rod to give 1/16 inch between top edge of choke valve and inner wall of air horn. (Open and close throttle so fast idle cam is free to operate.)

FAST IDLE THROTTLE VALVE CLEARANCE: (4611, A, 16, A, 38, A, 4711, A, — .019) (4615, A, 18, A, 40, A, 82, A, — .023") (4617, A, — .020") (4617, A, 39, A, — .015") between lower edge of throttle valve and bore with adjusting screw on second step of cam.

FAST IDLE ON CAR: 1700 R.P.M. hot engine with fast idle screw on second step and against shoulder of first step of cam.

DASHPOT: (If equipped) With throttle valves held at 2000 R.P.M., adjust dashpot so that stem just contacts lever. Tighten lock nut.

UNLOADER: 1/4 inch between upper edge of choke valve and inner wall of air horn, with throttle wide open. To adjust, bend tang on fast idle cam.

BOWL VAPOR VENT: 1/8 inch between the heel (low side of seal) of the rubber grommet and its seat on the bowl cover with throttle valves seated. To adjust, bend tang on vapor vent arm. If the pump has been changed from standard setting, readjust the bowl vapor vent.

SECONDARY THROTTLE LEVER: 1. Block choke valve wide open. 2. (4617, A, 18, A, 40, A, — 11/32 inch) (All others — 19/64 inch) between lower edge of primary valve and bore (opposite idle port) secondary valves should just start to open. To adjust, bend throttle operating rod. NOTE: at wide open throttle, primary and secondary valves will reach full vertical position. 3. With primary and secondary throttle valves in tightly closed position there should be .010" to .030" between positive closing shoes on primary and secondary throttle levers. To adjust, bend shoe on secondary lever. NOTE: If necessary, bend stop lug on secondary lever to prevent secondary valves from going past wide open.

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.

CHOKE DIAPHRAGM LINKAGE: With vacuum diaphragm plate (not stem) bottomed, close choke valve as far as possible without forcing. Adjust connector rod to give (4612, A, 16, A, 38, A, 39, A, 82, A, — 5/64 inch) (4617, A, — 5/32 inch) (4611, A, 15, A, 18, A, 40, A, 4711, A, — 7/64 inch) between top edge of choke valve and inner wall of air horn. Remove connector rod to adjust, to prevent damage to rod and diaphragm.

SECONDARY AIR VALVE: Loosen lock screw and allow air valve to position itself wide open. Check to see that air valve and shaft are operating freely. To adjust, turn the shaft bearing counter-clockwise until the spring just contacts air valve, then turn the shaft bearing two additional turns.

CHOKE (CROSS OVER TYPE): 1. Loosen mounting post lock nut and turn mounting post with screwdriver until index mark on disk is positioned as listed on carburetor specification page. 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 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	Part No.	PART NAME
1A-303	Flange gasket	15-585	Fuel inlet fitting assembly
2-281	Secondary throttle valve	16-160	Step up rod (.0645"x.062"x.055") Std (4612, A, 4639, A, 4682, A, 4711, A)
2-289	Primary throttle valve (4611, A, 12, A, 15, A, 16, A, 38, A, 39, A, 82, A, 4711, A)	16-164	Step up rod (.065"x.060"x.053") Std. (4615, A) (2)
2-291	Primary throttle valve (4617, A, 18, A, 40, A) (2)	16-165	Step up rod (.0635"x.060"x.053") Std. (4682, A) (use 16-160)
3-16185	Secondary throttle shaft and dog assembly	16-176	Step up rod (.067"x.065"x.055") Std. (4617, A) (use 16-575)
3-17325	Primary throttle shaft, lever & dog assembly (4611, A, 12, A, 39, A)	16-546	Step up rod (.066"x.064"x.055") Std. (4611, A, 17, A)
3-17345	Primary throttle shaft, lever and dog assy., (4615, A, 16, A, 17, A, 18, A, 38, A, 40, A, 82, A, 4711, A)	16-574	Step up rod (.065"x.060"x.053") Std. (4616, A, 4638, A)
4A-203	Throttle shaft dog	16-575	Step up rod (.065"x.062"x.053") Std. (4617, A, use 16-546) 4618, A, 4640, A
7-2935	Choke valve assembly	16-581	Step up rod (.065"x.063"x.055") Std. (4611, A) (use 16-546)
7-294	Air valve	17-51	Pump discharge check needle
11B-79	Rivet plug	20-127	Fuel inlet fitting gasket
11B-390	Passage plug	20-204	Needle seat gasket
11B-480	Idle port rivet plug (4611, A, 12, A, 15, A, 16, A, 38, A, 39, A, 82, A, 4711, A)	21-2415	Float assembly (4615, A, 16, A, 38, A, 82, A, 4711, A)
11B-481	Idle port rivet plug (4617, A, 18, A, 40, A)	21-2455	Float assembly (4611, A, 12, A, 17, A, 18, A, 39, A, 40, A)
13-244	Air valve shaft	24-29	Float pin
13-262	Choke shaft		
14-555	Choke shaft lever		
14-559	Counter shaft lever to choke valve		
14-893	Choke lever		

PARTS LIST (Cont'd,

Part No.	PART NAME	Part No.	PART NAME
25-1031S	Needle and seat assembly (4611, A, 12, A, 39, A) (2)	101-453S	Thermostatic valve screw assembly (4638, A, 39, A, 40, A) (2)
25-1032S	Needle and seat assembly (4615, A, 16, A, 17, A, 18, A, 38, A, 40, A, 82, A, 4711, A) (2)	101-558	Choke and air valve screw (4)
30-78	Fuel inlet strainer	101-560	Step up piston cover plate & air valve retainer screw (3)
30A-158	Idle air screw ("S" Carbs. only)	101-584	Pump arm screw
30A-199	Idle mixture screw (all except 4617A, 18A, 40A) (2)	101-621	Fast idle speed screw (late prod.)
30A-200	Idle mixture screw (4617A, 18A, 40A) (2)	103-14	Lead shot (.180)
48-339S	Pump jet assembly	103-16	Lead shot (.200)
53A-481	Bowl vent arm	105A-60	Dashpot lock nut (4611, A, 15, A, 17, A, 4711, A)
53A-482	Secondary throttle operating lever	111-76	Pump arm
53A-489	Lockout dog	113-90S	Choke shaft and lever assembly
58-1164S	Primary venturi assy. (opposite pump) (4611, A) (use 58-1263S)	114-146	Primary throttle shaft arm (outer)
58-1193S	Primary venturi assy. (pump side) (4611, A)	114-180	Dashpot lever (4611, A, 15, A, 17, A, 4711, A)
58-1200S	Primary venturi assy. (opposite pump side) (4639, A) (4612, A - use 58-1266)	114-181	Primary throttle shaft arm (inner)
58-1201S	Primary venturi assy. (pump side) (4639, A) (4612, A - use 58-1267)	115-308	Throttle operating rod
58-1203S	Primary venturi assy. (opposite pump) (4711, A)	115-372	Throttle connector rod
58-1204S	Primary venturi assy. (pump side) (4711, A)	115-438	Choke diaphragm connector rod
58-1206S	Primary venturi assy. (opposite pump side) (4616, A, 38, A, 82, A - use 58-1264)	115-452	Fast idle connector rod
58-1207S	Primary venturi assy. (pump side) (4616, A, 38, A, 82, A - use 58-1265)	117-190	Pump connector link
58-1209S	Primary venturi assy. (opposite pump) (4617, A)	117-208	Choke valve link
58-1210S	Primary venturi assy. (pump side) (4617, A)	120-392	Secondary metering jet (.092) (16, A, 38, A, 82, A, 4711, A) (2)
58-1213S	Primary venturi assy. (opposite pump side) (4618, A, 40, A)	120-395	Secondary metering jet (.095") (4611, A, 4615, A, 17, A, 18, A, 40, A) (2)
58-1214S	Primary venturi assy. (pump side) (4618, A, 40, A)	120-398	Secondary metering jet (4612, A, 4639, A, (.098") (2)
58-1243S	Primary venturi assy. (opposite pump) 4615, A)	120-489	Primary metering jet (.089") (4611, A, 12, A, 15, A, 16, A, 38, A, 39, A, 82, A, 4711, A) (2)
58-1244S	Primary venturi assy. (pump side) (4615, A)	120-501	Primary metering jet (.101) (4617, A, 18, A, 40, A) (2)
58-1263S	Primary venturi assy. (opposite pump side) (4611, A)	121-302	Primary venturi cluster gasket (2)
58-1264S	Primary venturi assy. (opposite pump side) (4616, A, 38, A, 82, A)	121-314	Thermostatic valve gasket (4638, A, 39, A, 40, A, 4711, A)
58-1265S	Primary venturi assy. (pump side) (4616, A, 38, A, 82, A)	121-613	Air horn gasket
58-1266S	Primary venturi assy. (opp. pump side) (4612, A)	121-619	Pump jet housing gasket
58-1267S	Primary venturi assy. (pump side) (4612, A)	122-119S	Pump intake ball check assembly
61-291	Idle speed screw spring	136-47	Choke diaphragm connector rod washer
61-47S	Idle air screw spring ("S" Carbs. only)	136-159	Primary throttle shaft washer (4612, A, 16, A, 18, A, 38, A, 39, A, 40, A, 82, A)
61-58S	Step up rod retaining spring (2)	136-160	Secondary throttle shaft washer
61-604	Vacuum piston spring (2)	136-174	Idle speed screw washer
61-649	Throttle lever spring	136-219	Choke lever retainer washer
61-798	Air valve spring	145-304	Choke diaphragm hose
61-816	Pump spring (lower)	150A-10	Pin spring (5)
61-829	Bowl vent arm spring	150A-21	Choke diaphragm connector rod pin spring
61-841	Secondary throttle return spring	160-207	Step up piston (2)
61-873	Idle mixture & fast idle speed screw spring (late prod.) (3)	163-113	Venturi vent seal (2)
63-336	Choke diaphragm connector rod retainer	164-24	Grommet seal
64-391S	Pump plunger, assembly	169-48S	Thermostatic valve assembly (4638, A, 39, A, 40, A, 4711, A)
65-59	Step up piston cover plate (opposite pump)	170BA-974S	Thermostatic coil, housing and rod assembly
65-60	Step up piston cover plate (pump side)	180-169	Dashpot bracket (4611, A, 15, A, 17, A, 4711, A)
96-36	Idle mixture screw limiter cap (late prod.) (2)	181-418S	Fast idle cam assy. (4616, A, 38, A, 82, A)
101-65	Choke shaft lever screw	181-422S	Fast idle cam assy. (4611, A, 15, A, 17, A, 18, A, 40, A, 4711, A)
101-74	Throttle shaft lever screw (2)	181-424S	Fast idle cam assy. (4612, A, 39, A)
101-120	Fast idle speed screw (early prod.)	186-70	Fuel bowl baffle (2)
101-184S	Pump jet screw assembly (2)	202-89S	Dashpot assembly (4611, A, 15, A, 17, A, 4711, A)
101-323	Fast idle cam screw	202-338S	Choke diaphragm and bracket assembly (4611, A, 15, A, 17, A, 18, A, 40, A, 4711, A)
101-337	Counter shaft lever screw	202-339S	Choke diaphragm and bracket assembly (4612, A, 16, A, 38, A, 39, A, 82, A)
101-362S	Air horn screw assembly (4611, A, 15, A, 17, A, 4711, A-6) (all others -8)	210-22	Air valve shaft bearing (for adjusting spring tension) (early prod. (use 210-24U)
101-386S	Dashpot bracket screw assembly (4611, A, 15, A, 17, A, 4711, A) (2)	210-23	Air valve shaft bearing (early prod.) (Use 210-24U)
101-419	Secondary throttle valve attaching screw (4)	210-24U	Air valve shaft bearing package (early prod.)
101-420	Primary throttle valve attaching screw (4)	210-27	Air valve shaft bearing (for adjusting spring tension) (late prod.)
101-428	Choke diaphragm bracket screw (2)		
101-442S	Venturi screw assembly (4)		
101-452	Idle speed screw		

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

1970 "V8"

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

BBD DUAL DOWN-DRAFT CLIMATIC CONTROL CARBURETORS Nos. 4721S - 4722S - 4723S - 4724S -
4749S - 4750S - 4895S

MODEL	ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
B, L, D, J, P, R, V, W, TRK. A-1 S/T	318	4721S	4721S	902-279
B, L, D, J, P, R, V, W, TRK. A-1 W/O A.C. A/T	318	4722S	4722S	902-279
B, L, D, J, P, R, V, W, W/A.C. A/T	318	4895S	4895S	902-279
B, L, D, J, P, R, V, W, TRK. A-1 (CALIF. E.C.S.) S/T	318	4723S	4723S	902-280
B, L, D, J, P, R, V, W, TRK. A-1 (CALIF. E.C.S.) A/T	318	4724S	4724S	902-280
B, L, D, J, P, R, V, W, (EXPORT) S/T	318	4749S	4749S	902-279
B, L, D, J, P, R, V, W, (EXPORT) A/T	318	4750S	4750S	902-279

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.	UNLOADER	CHOKE DIAPH. LINKAGE
4721S	1 ⁷ / ₁₆	265	INDEX	1/4	1/32	3/32	1600	1/4	5/32
4722S	1 ⁷ / ₁₆	265	INDEX	1/4	1/32	3/32	2000	1/4	5/32
4723S	1 ⁷ / ₁₆	265	INDEX	1/4	15/64	3/32	1600	1/4	5/32
4724S	1 ⁷ / ₁₆	265	INDEX	1/4	15/64	3/32	2000	1/4	5/32
4749S	1 ⁷ / ₁₆	265	INDEX	1/4	1/32	3/32	1600	1/4	5/32
4750S	1 ⁷ / ₁₆	265	INDEX	1/4	1/32	3/32	2000	1/4	5/32
4895S	1 ⁷ / ₁₆	265	INDEX	1/4	1/32	3/32	2000	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 (Except 4749, 50)	Idle R.P.M. See Decal In Engine Compartment
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Carter
Carburetor
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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: (NON-CALIF. 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 (CALIF. E.C.S.): With throttle connector rod in center hole of throttle lever, inner hole of pump arm and 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 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.

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-222	Flange gasket (4749, 50)
1A-316	Flange gasket (All except 4749, 50)
2-303	Throttle valve (2)
3-1694S	Throttle shaft & lever assembly (4721, 23)
3-1695S	Throttle shaft & lever assembly (4722, 24, 49, 50, 4895)
7-172	Choke valve
14-847S	Choke lever & shaft assembly
14-850S	Choke lever assembly
20-146	Step-up piston gasket
20-203	Needle seat gasket
20-262	Thermostatic valve gasket (4723, 24, 4895)
21-235S	Float & lever assembly
24-23	Float lever pin
25-1003S	Needle & seat assembly (flared tip)
30A-198	Idle mixture screw (2)
53A-448	Pump arm (all except 4723, 24)
53A-495	Pump arm (4723, 24)
61-58	Idle & fast idle speed screw spring (2)
61-538	Step-up piston spring
61-653	Pump spring
61-802	Bowl vent spring (4723, 24)
61-873	Idle mixture screw spring (2)
63-238	Float lever pin retainer
63-282	Plunger retainer (4723, 24) (2)
63-336	Fast idle connector rod retainer (2)
63-361	Plunger shaft retainer (4723, 24, -2)
	All others (1)
64-371S	Pump plunger & rod assembly (all except 4723, 24)
64-413S	Pump plunger & rod assembly (4723, 24)
65-62	Cover plate (4723, 24, 4895)
65-64	Bowl vent cover plate (4723, 24)
75-1727	Step-up rod (.029" x .025") (4721, 23, 49, 50) (use 75-1849) (2)
75-1849	Step-up rod (.031" x .026") (4721, 23, 49, 50) (4722, 24, 4895 - use 75-1895) (2)
75-1895	Step-up rod (.032" x .027") (4722, 24, 4895) (2)
96-36	Idle mixture screw limiter cap (all except 4749, 50) (2)
101-70	Pump arm screw (all except 4723, 24)
101-296	Fast idle speed screw
101-307S	Air horn screw assembly (4721, 23-(2), (4722, 24, 49, 50, 4895-(4)
101-318	Pump arm screw (4723, 24)
101-362S	Air horn screw assembly (4721, 23) (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 (2)

Part No.	PART NAME
101-544S	Air horn screw assy. (2)
101-558	Choke valve screw (2)
101-560	Cover plate screw (4723, 24, 4895) (2)
101-563	Idle speed screw
101-565	Fast idle cam screw
101-569	Venturi cluster screw (4723, 24) (2)
101-579	Venturi cluster screw (4722, 4895) (use 101-639) (2)
101-593	Venturi cluster screw (4723, 24) (use 101-569) (2)
101-615	Bowl vent cover plate screw (4723, 24) (3)
101-639	Venturi cluster screw (4721, 22, 49, 50, 4895) (2)
103-14	Lead shot
103-15	Lead shot (2)
103-20	Lead shot (2)
105A-60	Dashpot lock nut (4721, 23)
108-94	Choke connector rod spacer
115-265	Throttle connector rod (4722, 49, 50, 4895)
115-399	Choke diaphragm rod
115-409	Fast idle connector rod
115-424	Throttle connector rod (4721, 23, 24)
116-13	Pump discharge check ball
116-18	Pump intake check ball
118-275S	Venturi cover assembly
120-309S	Main metering jet (383cc) Std. (2)
121-285	Venturi housing gasket
121-531	Body flange gasket (4721, 22, 49, 50)
121-561	Venturi cover gasket
121-658	Body flange gasket (4723, 24, 4895)
121-659	Bowl vent cover gasket (4723, 24)
121-672	Body gasket
136-173	Plunger retainer (4723, 24) (Use 136-191)
136-191	Plunger retainer (4723, 24)
136-218	Pump plunger washer (all except 4723, 24)
145-303	Choke diaphragm hose
150A-10	Pin spring
150A-21	Choke diaphragm pin spring
160-310S	Step-up piston & plate assembly
169-144	Bowl vent valve (4723, 24)
169-151S	Thermostatic valve assembly (4723, 24)
169-154S	Thermostatic valve assembly (4895)
170BJ-222S	Thermostatic coil housing & rod assembly (4721, 22, 23, 24, 4895)
170BJ-232S	Thermostatic coil, housing & rod assembly (4749, 50)
180-144	Dashpot bracket (4721, 23)
181-414	Fast idle cam (4722, 24, 4895)
181-415	Fast idle cam (4721, 23, 49)
181-416	Fast idle cam (4750)
186-149	Fuel bowl baffle
202-277S	Dashpot assembly (4721, 23)
202-335S	Choke diaphragm & bracket assembly

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

1970-71 "6" CYLINDER BARRACUDA-B – CHALLENGER-J DART-L – VALIANT-V

BBS DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOS. 4715S – 4716S – 4717S – 4718S –
4929S – 4930S – 4955S – 4956S

MODEL	ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1970 L, V	S/T	198	4715S	902-277
1970 L, V	A/T	198	4716S	902-277
1970 L, V (Calif. – E.C.S.)	S/T	198	4717S	902-278
1970 L, V (Calif. – E.C.S.)	A/T	198	4718S	902-278
1970-71 B, J, L, V (Export)	S/T	170	4929S	902-277
1970-71 B, J, L, V (Export)	A/T	170	4930S	902-277
1971 B, J, L, V	S/T	198	4955S	902-278
1971 B, J, L, V	A/T	198	4956S	902-278

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	FAST IDLE R.P.M.	UNLOADER	CHOKE DIAPH. LINKAGE
4715S	1 ¹¹ / ₁₆	165	2 RICH	1/4	1/32	1/32	5/64	1800	3/16	7/64
4716S	1 ¹¹ / ₁₆	150	2 RICH	1/4	1/32	1/32	5/64	1800	3/16	5/64
4717S	1 ¹¹ / ₁₆	150	2 RICH	1/4	5/16	17/64	5/64	1800	3/16	7/64
4718S	1 ¹¹ / ₁₆	150	2 RICH	1/4	5/16	17/64	5/64	1800	3/16	5/64
4929S	1 ⁹ / ₁₆	135	2 RICH	1/4	1/32	1/32	5/64	1800	3/16	7/64
4930S	1 ¹¹ / ₁₆	170	2 RICH	1/4	1/32	1/32	5/64	1800	3/16	7/64
4955S	1 ¹¹ / ₁₆	170	2 RICH	1/4	5/16	17/64	5/64	1800	3/16	7/64
4956S	1 ¹¹ / ₁₆	170	2 RICH	1/4	5/16	17/64	5/64	1800	3/16	5/64

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug Gap .035"	Ignition Timing See Decal In Engine Compartment	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 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 groove of plunger rod (throttle 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: With fast idle screw on second step and against shoulder of first step of cam. Adjust choke connector rod at upper angle 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 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.

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 (4929, 30)
1A-315	Flange gasket (4715, 16, 17, 18, 4955, 56)
2-301	Throttle valve (4715, 16, 17, 18, 4930, 55, 56) ..
2-302	Throttle valve (4929)
3-1681S	Throttle shaft and lever assembly
7-199	Choke valve
11B-35	Rivet plug
11B-79	Rivet plug
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
20-262	Hot idle valve gasket (4717, 18, 4955, 56)
21-222S	Float and lever assembly
24-23	Float lever pin
25-1020S	Needle and seat assembly (flared tip)
30A-197	Idle mixture screw
38A-117	Pump plunger bushing (4714, 16, 4929, 30)
48-194	Pump jet (4929)
48-219	Pump jet (4715, 16, 17, 18, 4930, 55, 56)
53A-372	Pump arm
53A-494	Bowl vent arm (4717, 18, 4955, 56)
61-58	Idle and fast idle speed screw spring
61-205	Step-up piston spring (4715, 16, 17, 18, 4955, 56) ..
61-226	Step-up piston spring (4929)
61-538	Step-up piston spring (4930)
61-653	Pump spring (4929)
61-761	Pump spring (4715, 16, 17, 18, 4930, 55, 56)
61-873	Idle mixture screw spring
62-282	Bowl vent tube clamp (4717, 18, 4955, 56)
63-169	Float lever pin retainer
63-282	Bowl vent valve retainer (4717, 18, 4955, 56)
63-395	Pump spring retainer (4717, 18, 4955, 56)
64-226S	Pump plunger assembly (4715, 16, 4929, 30)
64-403S	Pump plunger assembly (4917, 18, 4955, 56)
65-62	Cover plate (4717, 18, 4955, 56)
75-1796	Step-up rod (.032"x.027") (4929)
75-1831	Step-up rod (.028"x.026") (4930)
75-1842	Step-up rod (.038"x.034") (4715, 17, 4955)
75-1880	Step-up rod (.041"x.037") (4956)
75-1881	Step-up rod (.042"x.039") (4716, 18)
96-36	Idle mixture screw limiter cap (4715, 16, 17, 18, 4955, 56)
101-296	Idle speed screw
101-307S	Bowl cover screw assembly
101-318	Pump arm screw
101-359S	Air horn screw assembly

Part No.	PART NAME
101-374	Step-up piston plate guide screw
101-473	Fast idle cam screw
101-537	Choke diaphragm bracket screw
101-558	Choke valve screw
101-560	Cover plate screw (4717, 4718, 4955, 56)
101-614	Fast idle speed screw
101-633	Throttle valve screw
115-370	Choke connector rod
115-398	Choke diaphragm connector rod
115-456	Throttle connector rod
116-13	Pump intake and discharge check ball
120-300S	Main metering jet (337-343cc) 1 size lean (4929) ..
120-301S	Main metering jet (320-326cc) 2 sizes lean (4929) ..
120-309S	Main metering jet assembly Std. (380-386 cc) (4929)
120-326S	Main metering jet assembly Std. (420 cc) (4930) ..
120-429S	Main metering jet assembly (475 cc)
	(Std) (4715, 16, 17, 18, 4955, 56)
121-332	Body flange gasket (4929)
121-336	Body flange gasket (4930) (Use 121-656)
121-643	Body gasket (4715, 16, 4929, 30) (Use 121-696) ..
121-655	Body gasket (4717, 18) (Use 121-697)
121-656	Body flange gasket (All except 4929)
121-696	Body gasket (4715, 16, 4929, 30)
121-697	Body gasket (4717, 18, 4955, 56)
123-76S	Idle orifice tube assembly (4929)
123-88S	Idle orifice tube assembly (4930, 56)
123-92S	Idle orifice tube assembly (.035") (4716, 18)
123-93S	Idle orifice tube assembly (.039") (4715, 17, 4955) ..
136-218	Pump plunger washer (4715, 16, 4929, 30)
145-285	Main vent tube (4715, 16, 17, 18, 4930, 55, 56) ..
145-294	Choke diaphragm hose
145-378	Main vent tube (4929)
145-413	Bowl vent hose (4717, 18, 4955, 56)
150A-10	Throttle connector rod pin spring
150A-21	Choke diaphragm connector rod pin spring
150A-22	Pump plunger pin spring (4715, 16, 4929, 30)
160-302S	Step-up piston and plate assembly
169-154S	Hot idle valve assembly (4717, 18, 4955, 56)
170BJ-983S	Thermostatic coil housing and rod assembly (4929, 30)
170BQ-135S	Thermostatic coil, housing and rod assembly (4715, 16, 17, 18, 4955, 56)
181-341	Fast idle cam (4929, 30)
181-350	Fast idle cam (4715, 16, 17, 18, 4955, 56)
202-336S	Choke diaphragm and bracket assembly (4715, 16, 17, 18, 4929, 56)
202-346S	Choke diaphragm and bracket assembly (4930, 55) ..

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

1970 "V8" BARRACUDA B - CHALLENGER J DART L - VALIANT V

AVS FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL CARBURETORS Nos. 4933S - 4934S -
4935S - 4936S - 4937S

MODEL	ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP FIT NO.
B, J, L, V	340	4933S	4933S	902-269A
B, J, L, V W/OA.C.	340	4934S	4934S	902-269A
B, J, L, V W/A.C.	340	4935S	4935S	902-269A
B, J, L, V (CALIF. E.C.S.)	340	4936S	4936S	902-269A
B, J, L, V (CALIF. E.C.S.)	340	4937S	4937S	902-269A

CARBURETOR SPECIFICATIONS AND ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

CARB. NO.	THROTTLE BORE	C.F.M.	VACUUM SPARK PORT	CHOKE SETTING	FLOAT LEVEL	FLOAT DROP	PUMP	FAST IDLE LINKAGE	FAST IDLE R.P.M.	UN- LOADER	BOWL VAPOR VENT	SEC. THRO. LEVER	CHOKE DIAPH. LINKAGE
4933S	1-7/16 (P) 1-11/16 (S)	360	ABOVE VALVE	INDEX	7/32	23/32	7/16	1/16	2000	1/4	1/16	9/32	7/64
4934S	1-7/16 (P) 1-11/16 (S)	360	ABOVE VALVE	INDEX	7/32	23/32	7/16	1/16	2000	1/4	1/8	9/32	5/64
4935S	1-7/16 (P) 1-11/16 (S)	360	ABOVE VALVE	INDEX	7/32	23/32	7/16	1/16	2000	1/4	1/8	9/32	5/64
4936S	1-7/16 (P) 1-11/16 (S)	360	ABOVE VALVE	INDEX	7/32	23/32	7/16	1/16	2000	1/4	3/4	9/32	7/64
4937S	1-7/16 (P) 1-11/16 (S)	360	ABOVE VALVE	INDEX	7/32	23/32	7/16	1/16	2000	1/4	3/4	9/32	5/64

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
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CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFIC SETTINGS

FLOAT ALIGNMENT: Side of floats parallel to edge of casting. Minimum clearance between lever and air horn lugs without binding. To adjust, bend float lever.

FLOAT LEVEL: Specified clearance, between top of floats (at outer end) and air horn gasket. To adjust, bend float lever.

FLOAT DROP: Specified clearance between top of floats (at outer end) and air horn gasket. To adjust, bend stop tabs on float brackets.

PUMP: Specified distance from the top of the bowl cover to the top of the plunger shaft with throttle connector rod in center hole (medium stroke) of pump arm with throttle valves tightly closed. To adjust, bend throttle connector rod.

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. (Open and close throttle so fast idle cam is free to operate.)

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 clearance between upper edge of choke valve and inner wall of air horn, with throttle wide open. To adjust, bend tang on fast idle cam.

BOWL VAPOR VENT (NON CALIF. E.C.S.): Distance between the heel (low side of seal) of the rubber grommet and its seat on the bowl cover should be as specified with throttle valves set at curb idle. To adjust, bend tang on vapor vent arm. If the pump has been changed from standard setting, readjust the bowl vapor vent.

BOWL VAPOR VENT (CALIF. E.C.S.): 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.

SECONDARY THROTTLE LEVER: 1. Block choke valve wide open. 2. With specified clearance between lower edge of primary valve and bore (opposite idle port) secondary valves

should just start to open. To adjust, bend throttle operating rod. **Note:** at wide open throttle, primary and secondary valves will reach full vertical position. 3. With primary and secondary throttle valves in tightly closed position there should be .010" to .030" between positive closing shoes on primary and secondary throttle levers. To adjust, bend shoe on secondary lever. **Note:** If necessary, bend stop lug on secondary lever to prevent secondary valves from going past wide open.

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.

CHOKE DIAPHRAGM LINKAGE: With vacuum diaphragm plate (not stem) bottomed, close choke valve 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.

SECONDARY AIR VALVE: Loosen lock screw and allow air valve to position itself wide open. Check to see that air valve and shaft are operating freely. To adjust, turn the shaft bearing counter-clockwise until the spring just contacts air valve, then turn the shaft bearing two additional turns.

IDLE SOLENOID: Set solenoid screw to R.P.M. shown on decal in engine compartment. Adjust mixture screws to obtain smoothest idle. Turn in idle speed screws until it just touches lever, then back out one turn.

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 clears 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	Part No.	PART NAME
1A-303	Flange gasket	21-245S	Float lever assembly(2)
2-281	Secondary throttle valve(2)	24-29	Float lever pin(2)
2-289	Primary throttle valve(2)	25-1031S	Needle & seat assembly(2)
3-1618S	Secondary throttle shaft & dog assembly	30-78	Fuel inlet strainer
3-1732S	Primary throttle shaft, lever & dog assembly	30A-199	Idle mixture screw(2)
4A-203	Throttle shaft dog (4933, 34, 35)	48-339S	Pump jet assembly
4A-204	Throttle shaft dog (4936, 37)	53A-481	Bowl vent arm (4933, 34, 35)
7-293S	Choke valve assembly	53A-482	Secondary throttle operating lever
7-294	Air valve	53A-489	Lockout dog
11B-79	Rivet plug(2)	53A-497	Bowl vent arm (4936, 37)
11B-390	Passage plug(4)	58-1288S	Primary venturi assembly (opposite pump side) (4934, 35, 37)
11B-480	Idle port rivet plug(2)	58-1289S	Primary venturi assembly (pump side) (4934, 35, 37)
13-244	Air valve shaft	58-1292S	Primary venturi assembly (opposite pump side) (4933, 36)
13-262	Choke shaft	58-1293S	Primary venturi assembly (pump side) (4933, 36)
14-555	Choke shaft lever	61-291	Idle speed screw spring
14-559	Countershaft lever to choke valve	61-585	Step-up rod retaining spring(2)
14-893	Choke lever	61-604	Vacuum piston spring(2)
15-58S	Fuel inlet fitting assembly	61-649	Throttle lever spring
16-546	Step-up rod (.066" x .064" x .055") Std.(2)	61-798	Air valve spring
17-51	Pump discharge check needle		
20-127	Fuel inlet strainer gasket		
20-204	Needle seat gasket(2)		

PARTS LIST (Cont'd.)

Part No.	PART NAME	Part No.	PART NAME
61-816	Pump spring (lower)	114-181	Primary throttle shaft arm (inner)
61-829	Bowl vent arm spring (4933, 34, 35)	114-189S	Solenoid lever assembly
61-841	Secondary throttle return spring	115-308	Throttle operating rod
61-873	Fast idle & idle mixture screw spring (3)	115-372	Throttle connector rod
61-883	Bowl vent armspring (4936, 37)	115-438	Choke diaphragm connector rod
63-336	Connector rod retainer (6)	115-452	Fast idle connector rod
64-391S	Pump plunger assembly	115-460	Bowl vent rod (4936, 37)
65-59	Step-up piston cover plate (opposite pump)	117-190	Pump connector link
65-60	Step-up piston cover plate (pump side)	117-208	Choke valve link
86-67	Solenoid lock washer	120-395	Secondary metering jet (.095") (4933, 36) (2)
96-36	Idle mixture screw limiter cap (2)	120-398	Secondary metering jet (.098") (4934, 35, 37) (2)
101-65	Choke shaft lever screw	120-489	Primary metering jet (.101") (2)
101-74	Throttle shaft lever screw (2)	121-302	Primary venturi cluster gasket (2)
101-184S	Pump jet screw assembly (2)	121-314	Thermostatic valve gasket (4935, 36, 37)
101-323	Fast idle cam screw	121-619	Pump jet housing gasket
101-337	Countershaft lever screw	121-680	Air horn gasket
101-362S	Air horn screw assembly (8)	122-119S	Pump intake ball check assembly
101-419	Secondary throttle valve screw (4)	136-47	Choke diaphragm connector rod washer
101-420	Primary throttle valve screw (4)	136-160	Secondary throttle shaft washer
101-421	Pump arm screw (4936, 37)	136-174	Idle speed screw washer
101-428	Choke diaphragm bracket screw (2)	136-219	Choke lever retainer washer
101-442S	Venturi screw assembly (4)	145-304	Choke diaphragm hose
101-452	Idle speed screw	150A-14	Pin spring (4936, 37)
101-453S	Thermostatic valve screw assy. (4935, 36, 37) (2)	150A-21	Choke diaphragm connector rod pin spring
101-558	Choke & air valve screw (4)	160-207	Step-up piston (2)
101-560	Step-up piston cover plate & air valve retainer screw (3)	164-24	Grommet seal
101-584	Pump arm screw (4933, 34, 35)	169-48S	Thermostatic valve assembly (4935)
101-604	Solenoid clamp screw	169-152S	Thermostatic valve assembly (4936, 37)
101-621	Fast idle speed screw	170BA-141S	Thermostatic coil, housing & rod assembly
101-628	Solenoid bracket screw	180-203	Solenoid bracket
103-14	Lead shot	181-422S	Fast idle cam assembly (4933, 36)
103-16	Lead shot	181-424S	Fast idle cam assembly (4934, 35, 37)
105A-56	Solenoid clamp nut	186-70	Fuel bowl baffle plate (2)
111-76	Pump arm	202-339S	Choke diaphragm & bracket assembly
113-90S	Choke shaft & lever assembly	210-27	Air valve shaft bearing (for adjusting spring tension)
114-146	Primary throttle shaft arm (outer)	213-46S	Idle solenoid assembly

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

CARTER.Form 5524B
OCTOBER, 1967
Revised November, 1968

1968 "V8" DART DL2 VALIANT DV2-DODGE DD2, DD3, DW2 PLYMOUTH DP2, DR2 DODGE TRUCK A-100

BBD DUAL DOWN-DRAFT CLIMATIC CONTROL CARBURETORS Nos. 4416S - 4417S - 4418S -
4419S - 4420S - 4421S

YEAR AND MODEL	ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1968 DL2, DR2, DV2, DW2 S/T	273	4416S	4416S	902-257
1968 DL2, DR2, DV2, DW2 A/T	273	4417S	4417S	902-257
1968 DD3, DP2 - (Canada) S/T	318	4418S	4418S	902-263
1968 DD3, DP2 - (Canada) A/T	318	4419S	4419S	902-263
1968 DD2, DL2, DP2, DR2, DV2, DW2, A-100 S/T	318	4420S	4420S	902-263
1968 DD2, DL2, DP2, DR2, DV2, DW2, A-100 A/T	318	4421S	4421S	902-263

CARBURETOR SPECIFICATIONS

FOR 8 CYLINDERS 273, 318 CU. IN. ENGINE: VACUUM AT IDLE 18 INCHES

Carb. No.	Thro. Bore Size	Main Venturi Size	Vents In Air Horn & Body Amt.	Idle Speed Jet Size	Idle Bleed In Cluster Screw Size	Idle Econ. In Cluster Screw Size	Idle Bleed In Body Size	Idle Port In Body Flange Size	Bleed Holes In Venturi Cover Size	Pump Jet Size	Choke Setting	Vacuum Spark Port Size
4416S	1 7/16	1 1/16	3	.0295	.059	.059	.0472	.229 x .030	None	.028	INDEX	.110 x .060
4417S	1 7/16	1 1/16	3	.0295	.059	.059	.0472	.229 x .030	None	.028	INDEX	.110 x .060
4418S	1 7/16	1 3/16	3	.0295	.059	.066	.0472	.229 x .030	None	.028	INDEX	.110 x .045
4419S	1 7/16	1 3/16	3	.0295	.059	.066	.0472	.229 x .030	None	.028	INDEX	.110 x .045
4420S	1 7/16	1 3/16	3	.0295	.063	.059	.0472	.229 x .030	None	.028	INDEX	.110 x .060
4421S	1 7/16	1 3/16	3	.0295	.063	.059	.0472	.229 x .030	None	.028	INDEX	.110 x .060

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug Gap .035"	Breaker Point Setting .014"-.019"	Ignition Timing A/T 2 1/2° ATC S/T 5° ATC Can. S/T 5° BTC Can. A/T 10° BTC	Valve Setting (Hot) All Hyd.	Idle Mixture Screw Setting (Lock Type except 4418-4419) 4418-4419 3/4 to 1 1/2 Turns Open 4416-4417 - 3 Turns 4420-4421 - 2 1/2 Turns	Idle R.P.M. S/T 650-700 A/T 600-650 Can 500
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Carter
Carburetor
Division



CARBURETOR ADJUSTMENTS

FLOAT LEVEL: 1/4 inch 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 ADJUSTMENT: Install pump connector rod in center hole (medium stroke) of throttle lever and inner hole of pump arm. With plunger retainer in center hole and groove of plunger rod, (throttle valves set at curb idle) adjust pump connector rod to give 1/16 inch between pump plunger washer and bushing in bowl cover. **NOTE:** Change plunger pin spring in accord with pump stroke.

FAST IDLE LINKAGE ADJUSTMENT: With fast idle screw on second step and against shoulder of first step of cam, adjust fast idle connector rod to give 3/32 inch between top edge of choke valve and inner wall of air horn.

FAST IDLE THROTTLE VALVE CLEARANCE: .010 inch between lower edge of valve and bore with adjusting screw on second step and against shoulder of first step of cam.

FAST IDLE ON CAR: (4416 - 1400) (4417 - 1600) (4418, 4419 - 700) (4420 - 1300) (4421 - 1500) R.P.M. hot engine with fast idle screw on second step and against shoulder of first step of cam. Adjust fast idle screw.

UNLOADER: 1/4 inch 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 ADJUSTMENT: With vacuum diaphragm plate (not stem) bottomed close choke as far as possible without forcing. Adjust connector rod to give (4416, 4418, 4420 - 7/32") (4417 - 3/32") (4419, 4421 - 9/64") 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 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.

DASH POT ADJUSTMENT: With throttle valve tightly closed and diaphragm stem fully depressed, adjust dashpot to give (4416 - 3/32") (4420 - 5/64") between stem and lever.

PARTS LIST

Part No.	PART NAME
1A-222	Flange gasket
2-254	Throttle valve (4418, 4419) (2)
2-271	Throttle valve (4416, 4417, 4420, 4421) (2)
3-1558S	Throttle shaft and lever assembly (4416)
3-1623S	Throttle shaft and lever assembly (4417)
3-1624S	Throttle shaft and lever assembly (4418, 4419) (4421 Use 3-1695S)
3-1625S	Throttle shaft and lever assembly (4420)
3-1695S	Throttle shaft and lever assembly (4421)
7-172	Choke Valve
14-847S	Choke lever and shaft assembly
14-850S	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 and seat assembly (flared tip) (4418, 4419, 4420, 4421)
25-1004S	Needle and seat assembly (flared tip) (4416, 4417)
30A-51	Idle mixture screw (4418, 4419) (2)
30A-188U	Idle mixture screw kit (consists of (2) 30A-192, (2) 61-57, (2) 101-562, (2) 103-19) (All except 4418, 4419)
38A-117	Pump plunger bushing
53A-448	Pump arm
61-58	Idle and fast idle speed screw spring (2)
61-84	Idle mixture screw spring (4418, 4419) (2)
61-538	Step-up piston spring
61-653	Pump spring
63-252	Float lever pin retainer
63-336	Choke connector rod retainer (2)
63-361	Pump plunger retainer
64-371S	Pump plunger and rod assembly
75-1642	Step-up rod (.025" x .022") (4418) (4420 - Use 75-1645) (2)
75-1645	Step-up rod (.026" x .022") (4416, 4419, 4420, 4421) (2)
75-1723	Step-up rod (.027" x .025") (4417) (2)
101-70	Pump arm screw
101-307S	Air horn screw assembly (4420 - 2) (all others - 4)
101-362S	Dash pot bracket screw (4416, 4421) (2)
101-374	Step-up piston plate screw
101-419	Throttle valve screw (4)
101-428	Choke diaphragm bracket screw (2)
101-472	Fast idle speed screw (all except 4421)
101-543S	Body flange screw (2)
101-544S	Air horn screw assembly (2)
101-558	Choke valve screw (2)
101-563	Idle speed screw

Part No.	PART NAME
101-565	Fast idle cam screw
101-569	Venturi cluster screw (4420, 4421) (2)
101-570	Venturi cluster screw (4416, 4417 - Use 101-593) (2)
101-572	Venturi cluster (4418, 4419) (2)
101-579	Venturi cluster screw (4421) (4420 - Use 101-569) (2)
101-593	Venturi cluster screw (4416, 4417) (2)
101-614	Fast idle speed screw (4421)
103-15	Lead shot (2)
105A-60	Dashpot lock nut (4416, 4420)
108-94	Choke connector rod spacer
115-265	Throttle connector rod (4417, 4418, 4419, 4421)
115-399	Choke diaphragm connector rod
115-409	Choke connector rod
115-424	Throttle connector rod (4416, 4420)
116-13	Pump discharge check ball
116-18	Pump intake check ball
118-275S	Venturi cover assembly
120-294S	Main metering jet assembly (288-294cc) Std. (4416, 4417) (2)
120-297S	Main metering jet assembly (272-278cc) 1 size lean (4416, 4417) (2)
120-298S	Main metering jet assembly (257-263cc) 2 sizes lean (4416, 4417) (2)
120-299S	Main metering jet assembly (360cc) Std. (4418, 4419, 4420, 4421) (2)
120-300S	Main metering jet assembly (337-343cc) 1 size lean (4418, 4419, 4420, 4421) (2)
120-301S	Main metering jet assembly (320-326cc) 2 sizes lean (4418, 4419, 4420, 4421) (2)
121-274	Body gasket
121-285	Venturi housing gasket
121-531	Body flange gasket
121-561	Venturi cover gasket
136-218	Pump plunger washer
145-303	Choke diaphragm hose
150A-10	Pin spring (2)
150A-21	Choke diaphragm connector rod pin spring
160-290S	Step-up piston and plate assembly
170BJ-944S	Thermostatic coil, housing and rod assembly
180-144	Dashpot bracket (4416, 4420)
181-364	Fast idle cam (4417, 4421 - Use 181-414)
181-365	Fast idle cam (4416, 4418, 4420 - Use 181-415)
181-366	Fast idle cam (4419 - Use 181-416)
181-414	Fast idle cam (4417, 4421)
181-415	Fast idle cam (4416, 4418, 4420)
181-416	Fast idle cam (4419)
202-277S	Dashpot assembly (4416, 4420)
202-327S	Choke diaphragm and bracket assembly

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

1969-71 "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. 4725S - 4726S - 4727S - 4728S -
4730S - 4834S - 4835S - 4894S - 6134S

MODEL	ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1970 C, D, P, Truck D-1	S/T 383	4725S	6134S	902-281A
1970 B, C, D, J, R, P, W, Truck D-1	W/OAC A/T 383	4726S	4962S	902-281A
1970 B, C, D, J, R, P, W	W/AC A/T 383	4894S	4894S	902-281A
1970 C, D, P, Truck D-1 (Calif.-E.C.S.)	S/T 383	4727S	4727S	902-281A
1970 B, C, D, J, R, P, W, Truck D-1 (Calif.-E.C.S.)	A/T 383	4728S	4728S	902-281A
1970 B, C, D, J, R, P, W (Export)	A/T 383	4730S	4961S	902-281A
1970-71 Truck D-2, D-3, W-2	S/T 383	4835S	4835S	902-281A
1970-71 Truck D-2, D-3, W-2	A/T 383	6134S	6134S	902-281A
1969-70 C, D, P, Truck	ALL/T 383	4834S	6134S	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
4725S	1 ⁹ / ₁₆	365	2 RICH	11 ¹ / ₃₂	⁹ / ₆₄	1700	¹ / ₄	1 ¹ / ₃₂	5 ⁵ / ₃₂
4726S	1 ⁹ / ₁₆	365	2 RICH	11 ¹ / ₃₂	⁹ / ₆₄	1700	¹ / ₄	1 ¹ / ₃₂	9 ⁹ / ₆₄
4727S	1 ⁹ / ₁₆	365	2 RICH	11 ¹ / ₃₂	⁹ / ₆₄	1700	¹ / ₄	1 ¹ / ₈	5 ⁵ / ₃₂
4728S	1 ⁹ / ₁₆	365	2 RICH	11 ¹ / ₃₂	⁹ / ₆₄	1700	¹ / ₄	3 ³ / ₁₆	9 ⁹ / ₆₄
4730S	1 ⁹ / ₁₆	365	2 RICH	11 ¹ / ₃₂	⁹ / ₆₄	1700	¹ / ₄	1 ¹ / ₃₂	9 ⁹ / ₆₄
4834S	1 ⁹ / ₁₆	365	INDEX	11 ¹ / ₃₂	⁹ / ₆₄	1700	¹ / ₄	1 ¹ / ₃₂	5 ⁵ / ₃₂
4835S	1 ⁹ / ₁₆	365	INDEX	11 ¹ / ₃₂	⁹ / ₆₄	1700	¹ / ₄	1 ¹ / ₃₂	5 ⁵ / ₃₂
4894S	1 ⁹ / ₁₆	365	2 RICH	11 ¹ / ₃₂	⁹ / ₆₄	1700	¹ / ₄	1 ¹ / ₃₂	9 ⁹ / ₆₄
6134S	1 ⁹ / ₁₆	365	INDEX	11 ¹ / ₃₂	⁹ / ₆₄	1700	¹ / ₄	1 ¹ / ₃₂	9 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	Idle RPM See Decal In Engine Compartment
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Carter
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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	Part No.	PART NAME
1A-152	Flange gasket (4730, 4834, 35, 6134)	101-565	Fast idle cam screw
1A-317	Flange gasket (4725, 26, 27, 28, 4894, 6134)	101-568	Venturi cluster screw (4725, 27, 30, 6134) (2)
2-305	Throttle valve (2)	101-569	Venturi cluster screw (4726, 28, 4894) (2)
3-1722S	Throttle shaft & lever assembly	101-570	Venturi cluster screw (4834, 35) (2)
7-304	Choke valve	103-14	Lead shot
14-850S	Choke lever assembly	103-15	Lead shot (2)
14-906S	Choke lever & shaft assembly	103-20	Lead shot (2)
20-146	Step-up piston gasket	111-82	Pump arm (all except 4727, 28)
20-203	Needle seat gasket	115-300	Throttle connector rod
20-262	Hot idle valve gasket (4727, 28, 4894)	115-395	Choke diaphragm rod
21-196S	Float & lever assembly	115-466	Fast idle connector rod
24-23	Float lever pin		(use 115-530)
25-1003S	Needle & seat assembly (flared tip)	115-530	Fast idle connector rod
30A-203	Idle mixture screw (2)	116-13	Pump discharge check ball
53A-426S	Pump arm & countershaft assembly (all except 4727, 28, 6134)	116-18	Pump intake check ball
53A-470	Loose lever arm (all except 4727, 28)	118-294S	Venturi cover assembly (4725, 26, 27, 28, 30, 4894)
61-58	Idle speed screw spring	118-315S	Venturi cover assy. (4834, 35)
61-208	Fast idle speed screw spring	120-323S	Main metering jet (590-600cc) Std. (6134)
61-226	Step up piston spring (4834, 35)	120-329S	Main metering jet assembly (535cc) (Std.) (4725, 27, 30)
61-451	Pump spring (use 61-939)	120-437S	Main metering jet assembly (590cc) (Std.)
61-484	Step-up piston spring (all except 4834, 35)		(4726, 28, 4894)
61-873	Idle mixture screw spring (2)	120-438S	Main metering jet assy. (530cc) (Std.) (4834, 35)
61-939	Pump spring	121-307	Venturi housing gasket
63-252	Float lever pin retainer	121-560	Venturi cover gasket
63-336	Fast idle connector rod retainer (2)	121-616	Body gasket (use 121-694)
64-210S	Pump plunger & rod assembly (use 64-420S)	121-660	Body flange gasket
64-420S	Pump plunger and rod assembly	121-694	Body gasket
65-62	Cover plate (4727, 28, 4894)	136-187	Pump spring retainer washer
65-63	Cover plate (4727, 28)	136-299	Throttle shaft spring washer (4725, 26, 27, 28)
75-1652	Step-up rod (.035" x .027") (4725, 27, 30) (2)	145-303	Choke diaphragm hose
75-1829	Step up rod (.044" x .041") (6134)	150A-10	Pin spring
75-1881	Step-up rod (.038" x .034") (4726, 28, 4894) (2)	150A-21	Choke diaphragm pin spring
75-1884	Step-up rod (.039" x .030") (4834, 35) (2)	160-292S	Step-up piston & plate assembly
96-36	Idle mixture screw limiter cap (all except 4730) (2)	164-22	Grommet seal
	(use 96-40)	169-151S	Hot idle valve assy. (4727, 28)
96-40	Idle mixture screw limiter cap	169-154S	Hot idle valve assy. (4894)
101-6	Pump arm screw (all except 4727, 28)	170BC-223S	Thermostatic coil housing & rod assembly (all except 4834, 35)
101-296	Fast idle speed screw		(4834, 35)
101-307S	Air horn screw assembly (8) (except 4727, 28-6)	170BJ-232S	Thermostatic coil, housing & rod assy. (4834, 35)
101-362S	Body flange screw assembly (4)	172-43	Cable clip (all except 4730)
101-419	Throttle valve screw (4)	181-426	Fast idle cam
101-428	Choke diaphragm bracket screw (2)	184-118	Vacuum tube cap (6134)
101-442S	Cover plate screw (4727, 28) (2)	202-337S	Choke diaphragm & bracket assembly (all except 4730)
101-466	Step-up piston plate screw		(4730)
101-558	Choke valve screw (2)	202-342S	Choke diaphragm & bracket assy. (4730)
101-560	Cover plate screw (4727, 28, 4894) (2)	214-56U	Unitized package (consists of 101-685, 105A-78, 183-117, 183-118, 214-56) (4728, 4834, 35, 6134)
101-563	Idle speed screw		

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

CARTER.

Form 5526C
OCT. 1967
Revised April, 1969

1968 "V8" CHRYSLER DC1, DC2, DC3 DART DL2 & BARRACUDA DB2 DODGE DD2, DW2 PLYMOUTH DP2, DR2

AVS FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL CARBURETORS Nos. 4401S - 4424S - 4425S -
4426S - 4428S - 4429S - 4635S - 4636S - 4637S

YEAR AND MODEL		ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.
1968 DB2, DR2, DW2, DP2, DD2, DC1	Wo/A.C. A/T	383	4401S	4401S	902-265A
1968 DB2, DR2, DW2, DP2, DD2, DC1	S/T	383	4426S	4426S	902-259
1968 DB2, DR2, DW2, DP2, DD2, DC1	W/A.C. A/T	383	4635S	4635S	902-265A
1968 DL2, DB2	Wo/A.C. A/T	340	4425S	4425S	902-264S
1968 DL2, DB2	S/T	340	4424S	4424S	902-260
1968 DL2, DB2	W/A.C. A/T	340	4636S	4636S	902-264A
1968 DR2, DW2, DP2, DD2, DC1, DC2, DC3 (A-134 Eng.)	Wo/A.C. A/T	440	4429S	4429S	902-265A
1968 DR2, DW2, DP2, DD2, DC1, DC2, DC3 (A-134 Eng.)	S/T	440	4428S	4428S	902-259
1968 DR2, DW2, DP2, DD2, DC1, DC2, DC3 (A-134 Eng.)	W/A.C. A/T	440	4637S	4637S	902-265A

CARBURETOR SPECIFICATIONS FOR 8 CYLINDER ENGINE

Carb. No.	Thro. Bore Prim. & Sec.	Main Venturi Prim.	Idle Speed Jet In Prim. Venturi	Idle By- Pass In Prim. Venturi	Idle Econ. In Prim. Venturi	Idle Bleed In Prim. Venturi	Idle Port	Anti- Per. Bleed In Prim. Venturi Sec. In Air Horn	Pump Jet In Prim. Venturi	Choke Setting	Vacuum Spark Port
4401S	1 $\frac{7}{16}$ (P) 1 $\frac{11}{16}$ (S)	1 $\frac{3}{16}$	.033	.0492	.052	.040	.200 x .030	.031 (P) .067 (S)	.035	Index	None
4424S	1 $\frac{7}{16}$ (P) 1 $\frac{11}{16}$ (S)	1 $\frac{3}{16}$	.033	.0492	.0492	.040	.200 x .030	.031 (P) .067 (S)	.028	Index	None
4425S	1 $\frac{7}{16}$ (P) 1 $\frac{11}{16}$ (S)	1 $\frac{3}{16}$	.032	.0492	.0492	.040	.200 x .030	.031 (P) .067 (S)	.035	Index	None
4426S	1 $\frac{7}{16}$ (P) 1 $\frac{11}{16}$ (S)	1 $\frac{3}{16}$	.032	.0492	.0465	.0492	.200 x .030	.031 (P) .067 (S)	.028	Index	None
4428S	1 $\frac{11}{16}$ (P) 1 $\frac{11}{16}$ (S)	1 $\frac{7}{16}$	.033	.0492	.0492	.040	.200 x .030	.035 (P) .067 (S)	.035	Index	None
4429S	1 $\frac{11}{16}$ (P) 1 $\frac{11}{16}$ (S)	1 $\frac{7}{16}$	.031	.052	.052	.040	.200 x .030	.035 (P) .067 (S)	.035	Index	None
4635S	1 $\frac{7}{16}$ (P) 1 $\frac{11}{16}$ (S)	1 $\frac{3}{16}$	.033	.0492	.052	.040	.200 x .030	.031 (P) .067 (S)	.035	Index	None
4636S	1 $\frac{7}{16}$ (P) 1 $\frac{11}{16}$ (S)	1 $\frac{3}{16}$	.032	.0492	.0492	.040	.200 x .030	.031 (P) .067 (S)	.035	Index	None
4637S	1 $\frac{11}{16}$ (P) 1 $\frac{11}{16}$ (S)	1 $\frac{7}{16}$	.031	.052	.052	.040	.200 x .030	.035 (P) .067 (S)	.035	Index	None

Carter
Carburetor
Division



MOTOR TUNE-UP — BE ACCURATE!

Spark Plug Gap .035"	Breaker Point Setting .014"-.019"	Ignition Timing All S/T TDC 340 A/T 5° BTC 383 A/T TDC (Except DB2, DP2, DR2 — 5° BTC) 440 A/T 5° BTC (Except DR2, DP2, — TDC)	Idle Air Adjust- ment screw setting (one only) Turn Clockwise To Lean	Idle R.P.M. 4424 — 700 All Others — 650
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CARBURETOR ADJUSTMENTS

FLOAT ALIGNMENT: Side of floats parallel to edge of casting. Minimum clearance between lever and air horn lugs without binding. To adjust, bend float lever.

FLOAT LEVEL: (4401, 26, 4635 — 5/16 inch) (4424, 25, 28, 29, 4636, 37 — 7/32 inch), plus or minus 1/64 inch, between top of floats (at outer end) and air horn gasket. To adjust, bend float lever.

FLOAT DROP: 23/32 inch plus or minus 1/16 inch between top of floats (at outer end) and air horn gasket. To adjust, bend stop tabs on float brackets.

PUMP: 7/16 inch from the top of the bowl cover to the top of the plunger shaft with throttle connector rod in center hole (medium stroke) of pump arm with throttle valves tightly closed. To adjust, bend throttle connector rod.

FAST IDLE LINKAGE ADJUSTMENT: With fast idle screw on second step and against shoulder of first step of cam, adjust choke connector rod to give 1/16 inch between top edge of choke valve and inner wall of air horn. (Open and close throttle so fast idle cam is free to operate.)

FAST IDLE THROTTLE VALVE CLEARANCE: (4401, 24, 26, 4635, 37 — .018") (4425, 28, 4636 — .015") between lower edge of valve and bore with adjusting screw on second step of cam.

FAST IDLE ON CAR: (4401, 4426, 4428 — 1600 R.P.M.) (4425, 4429 — 1400 R.P.M.) (4424 — 1700 R.P.M.), hot engine with fast idle screw on second step and against shoulder of first step of cam.

DASHPOT ADJUSTMENT: With throttle valves seated and diaphragm fully depressed adjust dashpot to have (4424 — 1/32") (4426 — 7/64") (4428 — 1/16") clearance between stem and tang on lever.

UNLOADER: 1/4 inch between upper edge of choke valve and inner wall of air horn, with throttle wide open. To adjust, bend tang on fast idle cam.

BOWL VAPOR VENT ADJUSTMENT: 1/8 inch between the heel (low side of seal) of the rubber grommet and its seat on the bowl cover with throttle valves set at curb idle. To adjust, bend tang on vapor vent arm. If the pump has been changed from standard setting, readjust the bowl vapor vent.

SECONDARY THROTTLE LEVER ADJUSTMENT: 1. Block choke valve wide open. 2. (4428 — 11/32 inch) (4429, 4637 — 3/8 inch) (All others — 21/64 inch) between lower edge of primary valve and bore (opposite idle port) secondary valves should just start to open. To adjust, bend throttle operating rod. **NOTE:** at wide open throttle, primary and secondary valves will reach full vertical position. 3. With primary and secondary throttle valves in tightly closed position there should be .010" to .030" between positive closing shoes on primary and secondary throttle levers. To adjust, bend shoe on secondary lever.

NOTE: If necessary, bend stop lug on secondary lever to prevent secondary valves from going past wide open.

SECONDARY THROTTLE LOCK-OUT ADJUSTMENT: 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.

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 (4425, 4636 — 5/64 inch) (4401, 4635 — 3/32 inch) (4429, 4637 — 5/32 inch) (4424, 26, 28 — 3/16 inch) between top edge of choke valve and inner wall of air horn. Remove connector rod to adjust, to prevent damage to rod and diaphragm.

SECONDARY AIR VALVE ADJUSTMENT: Loosen lock screw and allow air valve to position itself wide open. Check to see that air valve and shaft are operating freely. To adjust, turn the shaft bearing counter-clockwise until the spring just contacts air valve, then turn the shaft bearing two additional turns.

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 on carburetor specification page. 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 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-275	Flange gasket (use 1A-303)
1A-303	Flange gasket
2-281	Secondary throttle valve (2)
2-289	Primary throttle valve (4401, 24, 25, 26, 4635, 36) (2)
2-291	Primary throttle valve (4428, 29, 4637) (2)
3-1616S	Primary throttle shaft, lever and dog assembly (All except 4424, 25, 4636)
3-1618S	Secondary throttle shaft and dog assembly
3-1644S	Primary throttle shaft, lever & dog assembly (4424, 25, 4636 (Use 3-1756S)
3-1756S	Primary throttle shaft, lever & dog assembly (4424, 25, 4636)
4A-203	Throttle shaft dog
7-293S	Choke valve assembly
7-294	Air valve

Part No.	PART NAME
11B-79	Rivet Plug (2)
11B-390	Passage plug (4)
11B-454	Idle port rivet plug (4428, 29, 4637) (2)
11B-459	Idle port rivet plug (all except 4428, 29, 4637) (2)
13-244	Air valve shaft
13-262	Choke shaft
14-555	Choke shaft lever
14-559	Countershaft lever to choke valve
14-846	Choke lever (use 14-893)
14-884	Choke lever (use 14-893)
14-893	Choke Lever
15-585	Fuel inlet fitting assembly
16-171	Step up rod (.066" x .064" x .058") Std. (4428) (2)
16-176	Step up rod (.067" x .065" x .055") Std. (4424, 25, 4636) (2)

Part No.	PART NAME	Part No.	PART NAME
16-542	Step up rod (.0675" x .064" x .058")	101-442S	Venturi screw assembly (4)
16-546	Std. (4428) (use 16-171) (2)	101-452	Idle speed screw
16-564	Step up rod (.066" x .064" x .055") (4426)	101-453S	Thermostatic valve screw assy. (4635, 36, 37) . . . (2)
16-565	(4429 - use 16-574) (2)	101-558	Choke and air valve screw (4)
16-574	Step up rod (.068" x .065" x .055")	101-560	Step up piston cover plate & air valve
17-51	(4401, 4635 - Pump side)		retainer screw (3)
20-127	Step up rod (.065" x .063" x .055")	101-584	Pump arm screw
20-204	(4401, 4635 - Opposite pump)	101-621	Fast idle speed screw (4424, 25, 4636 -
21-236S	Step up rod (.065" x .064" x .055")		late prod.)
21-237S	Std. (4429, 4637) (2)	103-14	Lead shot (.180")
21-241S	Pump discharge check needle	103-16	Lead shot (.200")
21-245S	Fuel inlet fitting gasket	105A-60	Dashpot lock nut (4424, 26, 28)
24-29	Needle seat gasket (2)	111-76	Pump arm
25-1006S	Float and lever assembly (4401, 26, 4635)	113-86S	Choke shaft and lever assembly (Use 113-90S) . . .
	(use 21-241S) (2)	113-90S	Choke shaft and lever assy.
25-1031S	Float and lever assembly (4424, 25, 28, 29,	114-146	Primary throttle shaft arm (outer)
25-1032S	4636, 37) (use 21-245S) (2)	114-180	Dashpot lever (4424, 26, 28)
30-78	Float assy. (4401, 26, 4635) (2)	114-181	Primary throttle shaft arm (inner)
30A-158	Float assy. (4424, 25, 28, 29, 4636, 37) . . . (2)	115-308	Throttle operating rod
48-339S	Float lever pin	115-372	Throttle connector rod
48-341S	Needle and seat assembly (4424, 25 - Use 25-	115-437	Fast idle connector rod (Use 115-452,
48-342S	1031S) (4401, 26, 28, 29 - Use 25-1032S) . . . (2)		and 53A-489, 150A-10 and (181-407S,
53A-412	Needle and seat assembly (4424, 25, 4636) . . . (2)		181-422S-4424, 26, 28, 29) (181-409S,
53A-481	Needle and seat assembly (4401, 26, 28,		181-424S-4401, 25)
53A-482	29, 4636, 37) (2)	115-438	Choke diaphragm connector rod
53A-489	Fuel inlet strainer	115-452	Fast idle connector rod (Use with 53A-489,
58-1135S	Idle air screw		150A-10 and 181-407S, 181-422S, 4424,
58-1136S	Pump jet assembly (4401, 25, 28, 29,		26, 28, 29, 4637) (181-409S, 181-424S,
58-1139S	4635, 36, 37)		4401, 25, 4635, 36)
58-1140S	Pump jet assembly (4429 - Use 48-339S) . . .	117-190	Pump connector link
58-1144S	Pump jet and housing assembly (4424, 26)	117-208	Choke valve link
58-1145S	(4401, 25 - Use 48-339)	120-386	Secondary metering jet (.086") (4424) . . . (2)
58-1148S	Lockout Dog (use 53A-489, 115-452,	120-389	Secondary metering jet (.089")
58-1149S	150A-10, and (181-407S, 181-422S - 4424-26-		(all except 4424) (2)
58-1164S	28, 29) 181-409S, 181-424S - 4401-25) . . .	120-489	Primary metering jet (.089")
58-1165S	(181-409S, 181-424S-4401, 25, 4635, 4636) . . .		(all except 4428, 29, 4637) (2)
58-1166S	Primary venturi (opposite pump) (4429, 4637) . . .	120-501	Primary metering jet (.101") (4428, 29, 4637) . . (2)
58-1167S	Primary venturi (pump side) (4429, 4637) . . .	121-302	Primary venturi cluster gasket (2)
58-1167S	Primary venturi (opposite pump) (4401)	121-314	Thermostatic valve gasket (4635, 36, 37)
58-1167S	(use 58-1166)	121-613	Air horn gasket
58-1167S	Primary venturi (pump side) (4401)	121-619	Pump jet housing gasket
58-1167S	(use 58-1167)	122-119S	Pump intake ball check assembly
58-1167S	Primary venturi (opposite pump) (4426)	136-47	Choke diaphragm connector rod washer
58-1167S	Primary venturi (pump side) (4426)	136-159	Primary throttle shaft washer (4401, 25,
58-1167S	Primary venturi (opposite pump) (4428)		29, 4635, 36, 37)
58-1167S	Primary venturi (pump side) (4428)	136-160	Secondary throttle shaft washer
58-1167S	Primary venturi (opposite pump) (4424)	136-174	Idle speed screw washer
58-1167S	Primary venturi (pump side) (4424)	136-219	Choke lever retainer washer
58-1167S	Primary venturi (opposite pump) (4401, 4635)	145-304	Choke diaphragm hose
58-1167S	(4425 - Use 58-1187S)	150A-10	Pin spring (5)
58-1167S	Primary venturi (pump side) (4401, 4635)	150A-21	Choke diaphragm connector rod pin spring . . . (2)
58-1167S	(4425 - Use 58-1188S)	160-207	Step up piston (2)
58-1187S	Primary venturi (opposite pump) (4425, 4636) . . .	163-113	Venturi vent seal (2)
58-1188S	Primary venturi (pump side) (4425, 4636) . . .	164-24	Grommet seal
61-171	Pump spring (lower)	169-48S	Thermostatic valve assy. (4635, 36, 37) . . .
61-291	Idle speed screw spring	170BA-974S	Thermostatic coil, housing and rod assembly . . .
61-475	Idle air screw spring	180-169	Dashpot bracket (4424, 26, 28)
61-585	Step up rod retaining spring (2)	181-395S	Fast idle cam assembly (Use (181-407S,
61-604	Vacuum piston spring (2)		181-422S-4424, 26, 28, 29) and 53A-489,
61-649	Throttle lever spring		115-452, 150A-10)
61-798	Air valve spring	181-398S	Fast idle cam assy. (Use (181-409S,
61-829	Bowl vent arm spring		181-424S-4401, 25) and 53A-489,
61-841	Secondary throttle return spring		115-452, 150A-10)
61-873	Fast idle speed screw spring (4424, 25,	181-407S	Fast idle cam assy. ((4424, 26, 28, 29, 4637)
63-336	4636 - late prod.)		use with 53A-489, 115-452, 150A-10)
64-212S	Choke diaphragm connector rod retainer		(use 181-422S)
64-279S	Pump plunger assembly (4401, 25, 29,	181-409S	Fast idle cam assy. (4401, 25, 4635, 36)
65-59	4635, 36, 37)		use with 53A-489, 115-452, 150A-10)
65-60	Pump plunger assembly (4424, 26, 28)		(use 181-424S)
101-65	Step up piston cover plate (opposite pump) . . .	181-422S	Fast idle cam assy. (4424, 26, 28, 29, 4637) . . .
101-74	Step up piston cover plate (pump side)	181-424S	Fast idle cam assy. (4401, 25, 4635, 36)
101-120	Choke shaft lever screw	186-70	Fuel bowl baffle (2)
101-184S	Throttle shaft lever screw (2)	202-89S	Dashpot assembly (4424, 26, 28)
101-323	Fast idle speed screw (4401, 26, 28, 29, 4635,	202-297S	Dashpot assy. (4424, 4426, 28 use 202-89S) . . .
101-337	37, (4424, 25, 4636 - early prod.)	202-302S	Choke diaphragm and bracket assembly
101-362S	Pump jet screw assembly (2)		(4425, 4636)
101-386S	Fast idle cam screw	202-318S	Choke diaphragm and bracket assy.
101-419	Countershaft lever screw		(all except 4425, 4636)
101-420	Air horn screw assembly (6)	210-15	Air valve shaft bearing (use 210-23)
101-428	Dashpot bracket screw assembly (4424, 26, 28) . . (2)	210-16	Air valve shaft bearing (for adjusting spring
	Secondary throttle valve attaching screw (4)		tension) (use 210-22)
	Primary throttle valve attaching screw (4)	210-22	Air valve shaft bearing (for adjusting spring
	Choke diaphragm bracket screw (2)		(early prod.) (Use 210-24U)
		210-23	Air valve bearing (early prod.) (Use 210-24U) . . .
		210-24U	Air valve shaft bearing pkg. (early prod.)
		210-27	Air valve shaft bearing (for adjusting
			spring tension (late prod.)

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

1966-68 "6" DODGE TRUCK

BBS DOWN-DRAFT CLIMATIC CONTROL AND MANUAL CHOKE CARBURETORS NOS. 4175S - 4176S - 4177S - 4178S - 4334S - 4340S - 4341S - 4342S - 4478S

YEAR AND MODEL			ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.	GASKET SET NO.
1966	M/Choke	S/T	225	4177S	4177S	902-202	500
1966	A/Choke	A/T	225	4178S	4178S	902-202	500
1967-68	M/Choke	S/T	225	4334S	4334S	902-202	500
1967-68	A/Choke	A/T	225	4342S	4342S	902-202	500
C.A.P. (Cleaner Air Package)							
1966	M/Choke	S/T	225	4175S	4175S	902-202	500
1966	A/Choke	A/T	225	4176S	4176S	902-202	500
1967	M/Choke	S/T	225	4340S	4340S	902-202	500
1967-68	A/Choke	A/T	225	4341S	4341S	902-202	500
1968	M/Choke	S/T	225	4478S	4478S	902-202	500

CARBURETOR SPECIFICATIONS

FOR 6 CYLINDERS 225 CU. IN. ENGINE:

CARB. NO.	THRO. BORE SIZE	MAIN VENTURI SIZE	VENTS AIR HORN & BODY FLANGE AMT.	IDLE SPEED JET SIZE	IDLE BLEED IN BODY SIZE	IDLE ECON. IN BODY SIZE	IDLE PORT SIZE	MAIN VENT TUBE AMT. SIDE HOLES	TOP BLEED HOLE IN VENT TUBE SIZE	PUMP JET SIZE	CHOKE SETTING	VACUUM SPARK PORT SIZE
4175S	1 $\frac{1}{16}$	1 $\frac{11}{32}$	2	.033	.0629	.052	.195 x .030	6	.0236	.0275	Manual	.110 x .060
4176S	1 $\frac{1}{16}$	1 $\frac{11}{32}$	2	.033	.0629	.052	.195 x .030	6	.0315	.0275	2 P. Rich	.110 x .060
4177S	1 $\frac{1}{16}$	1 $\frac{11}{32}$	1	.033	.0629	.052	.185 x .030	6	.0315	.0275	Manual	.110 x .060
4178S	1 $\frac{1}{16}$	1 $\frac{11}{32}$	2	.0315	.0629	.052	.185 x .030	6	.0315	.0275	2 P. Rich	.110 x .060
4334S	1 $\frac{1}{16}$	1 $\frac{11}{32}$	1	.033	.0629	.052	.185 x .030	6	.0315	.0275	Manual	.110 x .060
4340S	1 $\frac{1}{16}$	1 $\frac{11}{32}$	1	.033	.0629	.052	.195 x .030	6	.0236	.0275	Manual	.110 x .060
4341S	1 $\frac{1}{16}$	1 $\frac{11}{32}$	2	.033	.0629	.052	.195 x .030	6	.0315	.0275	2 P. Rich	.110 x .060
4342S	1 $\frac{1}{16}$	1 $\frac{11}{32}$	2	.0315	.0629	.052	.185 x .030	6	.0315	.0275	2 P. Rich	.110 x .060
4478S	1 $\frac{1}{16}$	1 $\frac{11}{32}$	1	.0295	.0629	.052	.190 x .030	6	.0315	.0275	Manual	.110 x .060

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug .035"	Breaker Point Setting .020"	Ignition Timing Breaker Points To Open C.A.P. 5° A.T.C. 1966, T.D.C. 1967-68 Others 2 $\frac{1}{2}$ ° B.T.C. 1966, 5° B.T.C. 1967-68 At Vibration Damper	Valve Setting (Hot) Intake .010" Exhaust .020"	Float Setting See Adjustments
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IDLE MIXTURE SCREW SETTING: C.A.P. 4175S - 4176S - 4340S - 4341S - 4478S. NOTE: Idle screw is not removable on these models and it locks at approximately 2 - 3 turns open. CAUTION: Care must be taken not to twist off. Adjust mixture screw as outlined in the Car Mfg. Service Manual. A damaged screw is replaceable with service package 30A-154U. All Non C.A.P. idle screw are removable. Setting 3/4 to 2 $\frac{1}{2}$ turns open.

IDLE R.P.M. SETTING: 550 R.P.M. All/Trans. in neutral.

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CARBURETOR ADJUSTMENTS

FLOAT LEVEL: (4175 - 4340 7/32") (all others 1/4") 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 ADJUSTMENT: With throttle connector rod in (4177 - 4178 - 4334 - 4342) center hole (medium stroke) (4175 - 4176 - 4340 - 4341 - 4478) lower hole (long stroke) of throttle lever and plunger pin spring in (4177 - 4178 - 4334 - 4342) center hole (4175 - 4176 - 4340 - 4341 - 4478) in lower hole and groove of plunger rod, (throttle valve seated) adjust connector rod to give 1/16" between pump plunger washer and bushing. **NOTE:** Change plunger pin spring in accord with pump stroke.

FAST IDLE LINKAGE ADJUSTMENT: (4175 - 4177 - 4334 - 4340 - 4478) with fast idle screw on cam index; (4176 - 4178 - 4341 - 4342) with fast idle screw on second step and against shoulder of first step of cam. Adjust choke connector rod to give (4175 - 4177 - 4334 - 4340 - 4478 5/32 inch), (4176 - 4178 - 4341 - 4342 5/64 inch) between top edge of choke valve and inner wall of air horn. **NOTE:** (4176 - 4178 - 4341 - 4342) there should be a slight clearance between tang on choke lever and stop on air horn with choke valve fully closed.

FAST IDLE THROTTLE VALVE CLEARANCE: (4175 - 4177 - 4334 - 4340 - 4478 .040 inch) with fast idle screw on cam index; (4176 - 4178 - 4341 - 4342 - .020 inch) with fast idle screw on second step and against shoulder of first step of cam.

FAST IDLE ON CAR: (4178 - 4342) 700 R.P.M., hot engine with fast idle screw on lowest speed step of cam, (4176 -

4341) 1550 R.P.M. hot engine with fast idle screw on second step and against shoulder of first step of cam. Trans. in neutral.

UNLOADER: (4176 - 4178 - 4341 - 4342) 3/16" 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 (4176 - 9/64 inch) (4178 - 4341 - 4342 - 7/64 inch) 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) SEE FORM 3661 SERVICE AND ADJUSTMENT PROCEDURE: 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	Part No.	PART NAME
1A-153	Flange gasket (w/o governor)	61-467	Idle mixture screw spring (4177 - 4178 - 4334 - 4342)
1A-156	Flange gasket (w/governor) (4176 - 4178 - 4341 - 4342)	61-484	Step-up piston spring (4176 - 4177 - 4178 - 4334 - 4341 - 4342 - 4478)
1A-157	Flange gasket (w/governor) (4175 - 4177 - 4334 - 4340 - 4478)	61-511	Choke pullback spring (4175 - 4177 - 4334 - 4340 -) (use 61-866)
2-87	Throttle valve (all except 4478 - 4340 - 4341 use 2-292)	61-538	Step-up piston spring (4175 - 4340)
2-292	Throttle valve (4340 - 4341 - 4478)	61-653	Pump spring (4176 - 4178 - 4341 - 4342)
3-1306S	Throttle shaft and lever assy. (4176 - 4178 - 4341 - 4342)	61-761	Pump spring (4175 - 4177 - 4334 - 4340 - 4478)
3-1419S	Throttle shaft and lever assy. (4175 - 4177 - 4334 - 4340 - 4478)	61-800	Choke lever spring (4176 - 4178 - 4341 - 4342)
7-195S	Choke valve assy. (4175 - 4177 - 4334 - 4340 - 4478)	61-866	Choke pullback spring (4175 - 4177 - 4334 - 4340 - 4478)
7-199	Choke valve (4176 - 4178 - 4341 - 4342)	62-232	Hose clamp (4175 - 4177 - 4334 - 4340 - 4478)
11B-35	Rivet plug	62-243S	Choke tube bracket assy. (4175 - 4177 - 4340)
11B-79	Rivet plug	62-261S	Choke tube bracket assy. (4334 - 4478)
11B-108	Pump jet rivet plug	63-169	Float lever pin retainer
11B-220	High speed passage rivet plug	64-226S	Pump plunger and rod assy.
11B-296	Pump jet rivet plug (use 11B-108)	75-1591	Step-up rod (.032") (4178 - 4342)
11B-303	Rivet plug	75-1593	Step-up rod (.026") (4175 - 4340)
14-728S	Choke lever and shaft assy. (4176 - 4178 - 4341 - 4342)	75-1626	Step-up rod (.024") (4177 - 4334)
14-751S	Choke lever and shaft assy. (4175 - 4177 - 4334 - 4340)	75-1634	Step-up rod (.034") (4176 - 4341)
14-811	Choke lever (4176 - 4178 - 4341 - 4342)	75-1635	Step-up rod (.036") (4478)
14-870S	Choke lever & shaft assy. (4478)	100-16	Idle speed screw
20-116	Main metering jet gasket	101-10	Wire clamp screw (4175 - 4177 - 4334 - 4340)
20-146	Step-up piston gasket	101-290	Choke tube bracket att. screw (4175 - 4177 - 4340)
20-203	Needle seat gasket	101-307S	Bowl cover screw assy. (2)
21-222S	Float and lever assy.	101-318	Pump arm screw
24-23	Float lever pin	101-359S	Air horn screw assy. (4)
25-734S	Needle and seat assy. (Use 25-1020S)	101-374	Step-up piston plate guide screw
25-1020S	Needle and seat assy. (flared tip needle)	101-468	Fast idle cam screw
30A-121	Idle mixture screw (4177 - 4178 - 4334 - 4342)	101-472	Fast idle speed screw
30A-154U	Idle mixture screw kit (C.A.P.) (Consist of 1 each 30A-164 idle mixture screw - 61-57 idle mixture screw spring - 101-562 idle lock screw hex, socket type - 103-19 lead ball)	101-537	Choke diaphragm bracket screw (4176 - 4178 - 4341 - 4342) (also choke tube bracket screw 4334 - 4478) (2)
38A-117	Pump plunger bushing	101-558	Choke & throttle valve screw (w/steel shaft) (2)
39-11	Choke and throttle valve screw (w/brass shaft) (4)	105-11	Choke tube clamp screw (4175 - 4177 - 4334 - 4340 - 4478)
48-194	Pump jet	105A-8	Choke tube clamp nut (4175 - 4177 - 4334 - 4340 - 4478)
53A-450	Pump arm	115-345	Pump connector rod (4176 - 4178 - 4341 - 4342)
61-58	Fast idle speed screw spring	115-347	Pump connector rod (4175 - 4177 - 4334 - 4340 - 4478)
61-291	Idle speed screw spring		

Part No.	PART NAME	Part No.	PART NAME
115-370	Choke connector rod (4175 - 4177 - 4334 - 4340 - 4478)	123-845	Idle orifice tube & plug assy. (4478)
115-398	Choke diaphragm connector rod (4176 - 4178 - 4341 - 4342)	123-885	Idle orifice tube & plug assy. (.033") (4175 - 4176 - 4177 - 4334 - 4340 - 4341)
116-13	Pump intake and discharge check ball (2)	136-218	Pump plunger washer
120-2635	Main metering jet assy. (400 to 408 cc) (std. 4175 - 4340) (2 sizes lean 4176 - 4177 - 4178 - 4334 - 4341 - 4342)	145-136	Main vent tube (4175 - 4340)
120-2645	Main metering jet assy. (337 to 343 cc) 3 sizes lean (4175 - 4340)	145-254	Hose (4175 - 4177 - 4334 - 4340 - 4478)
120-2655	Main metering jet assy. (320 to 326 cc) 4 sizes lean (4175 - 4340)	145-285	Main vent tube (4176 - 4177 - 4178 - 4334 - 4341 - 4342 - 4478)
120-2675	Main metering jet assy. (380 to 386 cc) (1 size lean 4175 - 4340) (3 sizes lean 4177 - 4334)	145-294	Choke diaphragm hose (4176 - 4178 - 4341 - 4342)
120-2685	Main metering jet assy. (360 to 368 cc) 2 sizes lean 4175 - 4340) (4 sizes lean 4177 - 4334)	150A-10	Throttle connector rod pin spring
120-2775	Main metering jet assy. (417 to 423 cc) (1 size lean 4176 - 4177 - 4178 - 4334 - 4341 - 4342) (2 sizes lean - 4478)	150A-21	Choke diaphragm connector rod pin spring (4176 - 4178 - 4341 - 4342)
120-2935	Main metering jet assy. (436 to 444 cc) (std. 4176 - 4177 - 4178 - 4334 - 4341 - 4342) (1 size lean - 4478)	150A-22	Pump plunger pin spring
120-2955	Main metering jet assy. (470 to 480 cc) (std.) 4478	160-2615	Step-up piston and plate assy.
121-336	Body flange gasket	170BC-8675	Thermostatic coil, housing and rod assy. (4176 - 4178 - 4341 - 4342)
121-526	Body gasket.	170BC-8685	Thermostatic coil, housing and rod assy. used with velocity governor (4176 - 4178 - 4341 - 4342)
123-745	Idle orifice tube & plug assy. (.0315") (4178 - 4342)	181-307	Fast idle cam (4175 - 4177 - 4334 - 4340 - 4478)
		181-341	Fast idle cam (4176 - 4178 - 4341 - 4342)
		184-106	Vent tube cap (4175 - 4177 - 4334 - 4340 - 4478)
		202-2565	Choke diaphragm & bracket assy. (4176 - 4178 - 4342) (4341 - Use 202-329S)
		202-3295	Choke diaphragm & bracket assy. (4341)

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

1968-69 "V8"

DODGE EW2 & PLYMOUTH ER2

AFB FOUR-BORE DOWN-DRAFT CLIMATIC CONTROL CARBURETOR Nos. 4430S - 4431S - 4432S -
4619S - 4620S - 4621S

YEAR AND MODEL	ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP-KIT NO.
1968 Dodge DW2, Ply. DR2 (Front) All/T	426 (HEMI)	4430S	4430S	902-240A
1968 Dodge DW2, Ply. DR2 (Rear) S/T	426 (HEMI)	4431S	4431S	902-240A
1968 Dodge DW2, Ply. DR2 (Rear) A/T	426 (HEMI)	4432S	4432S	902-240A
1969 Dodge EW2, Ply. ER2 (Front) All/T	426 (HEMI)	4619S	4619S	902-240A
1969 Dodge EW2, Ply. ER2 (Rear) S/T	426 (HEMI)	4620S	4620S	902-240A
1969 Dodge EW2, Ply. ER2 (Rear) A/T	426 (HEMI)	4621S	4621S	902-240A

CARBURETOR SPECIFICATIONS

Carb. No.	Thro. Bore Prim. & Sec.	Main Venturi Prim. & Sec.	Idle Speed Jet In Prim. Venturi	Idle By-Pass In Prim. Venturi	Idle Econ. In Prim. Venturi	Idle Bleed In Prim. Venturi	Idle Port In Prim. Side	Anti-Per. or Nozzle Bleed In Prim. & Sec. Venturi	Pump Jet In Prim. Side	Choke Setting	Vacuum Spark Port In Prim. Side
4430S	1 $\frac{7}{16}$ (P) 1 $\frac{11}{16}$ (S)	1 $\frac{3}{16}$ (P) 1 $\frac{9}{16}$ (S)	.035	.0492	.0492	.057	.200 x .030	.031 (P) .031 (S)	.028	None	None
4431S	1 $\frac{7}{16}$ (P) 1 $\frac{11}{16}$ (S)	1 $\frac{3}{16}$ (P) 1 $\frac{9}{16}$ (S)	.028	.055	.0492	.057	.200 x .030	.031 (P) .031 (S)	.035	2 P. Rich	None
4432S	1 $\frac{7}{16}$ (P) 1 $\frac{11}{16}$ (S)	1 $\frac{3}{16}$ (P) 1 $\frac{9}{16}$ (S)	.031	.055	.0492	.061	.225 x .030	.031 (P) .031 (S)	.035	2 P. Rich	None
4619S	1 $\frac{7}{16}$ (P) 1 $\frac{11}{16}$ (S)	1 $\frac{3}{16}$ (P) 1 $\frac{9}{16}$ (S)	.0292	.0492	.0492	.057	.200 x .030	.031 (P) .031 (S)	.028	None	None
4620S	1 $\frac{7}{16}$ (P) 1 $\frac{11}{16}$ (S)	1 $\frac{3}{16}$ (P) 1 $\frac{9}{16}$ (S)	.031	.055	.0492	.061	.225 x .030	.031 (P) .031 (S)	.035	2 P. Rich	None
4621S	1 $\frac{7}{16}$ (P) 1 $\frac{11}{16}$ (S)	1 $\frac{3}{16}$ (P) 1 $\frac{9}{16}$ (S)	.031	.055	.0492	.061	.225 x .030	.031 (P) .031 (S)	.035	2 P. Rich	None

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug Gap .035"	Breaker Point Setting .017"	Ignition Timing See Decal In Engine Compartment	Idle Mixture Screw Setting 4619 None All Others Lock Type	Idle R.P.M. See Decal In Engine Compartment
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CARBURETOR ADJUSTMENTS

FLOAT ALIGNMENT: Side of floats parallel to edge of casting. Minimum clearance between lever and air horn lugs without binding. To adjust, bend float lever.

FLOAT LEVEL: (4430, 4619 — 19/64") (4431, 4432, 4620, 4621 — 7/32") plus or minus 1/64 inch, between top of floats (at outer end) and air horn gasket. To adjust, bend float lever.

FLOAT DROP: 23/32 inch plus or minus 1/16 inch between top of floats (at outer end) and air horn gasket. To adjust, bend stop tabs on float brackets.

PUMP: 7/16 inch from the top of the bowl cover to the top of the plunger shaft with throttle connector rod in center hole (medium stroke) of pump arm with throttle valves tightly closed. To adjust, bend throttle connector rod.

FAST IDLE LINKAGE ADJUSTMENT: With fast idle screw on second step and against shoulder of first step of cam, adjust choke connector rod to give 1/16 inch between top edge of choke valve and inner wall of air horn. (Open and close throttle so fast idle cam is free to operate.) (4430, 4619 — None).

FAST IDLE THROTTLE VALVE CLEARANCE: .024 inch between lower edge of valve and bore with adjusting screw on second step of cam. (4430 — None).

FAST IDLE ON CAR: 2000 R.P.M. hot engine with fast idle screw on second step and against shoulder of first step of cam. (4430, 4619 — None).

DASH POT ADJUSTMENT: (4431, 4620) Adjust dashpot stem to touch tang on lever with throttle valve opening of .023" (side opposite port).

DASH POT SETTING ON CAR: (4431) With throttle valves seated and dashpot stem fully depressed, adjust dashpot to give .030" clearance between stem and lever. Tighten lock nut.

UNLOADER: (4431, 4432, 4620, 4621 — 1/4 inch) between upper edge of choke valve and inner wall of air horn, with

throttle wide open. To adjust, bend unloader lip on throttle lever. (4430, 4619 — None).

BOWL VAPOR VENT ADJUSTMENT: 5/32 inch between the heel (low side of seal) of the rubber grommet and its seat on the bowl cover with throttle valves seated. To adjust, bend tang on vapor vent arm. If the pump has been changed from standard setting, readjust the bowl vapor vent. (4430 — None)

SECONDARY THROTTLE LEVER ADJUSTMENT: 1. Block choke valve wide open. 2. 17/64" between lower edge of primary valve and bore (opposite idle port) secondary valves should just start to open. To adjust, bend throttle operating rod. NOTE: With primary valves at wide open position, adjust wide open stop tang to stop secondary valves a few degrees before full vertical position. 3. With primary and secondary throttle valves in tightly closed position there should be .010" to .030" between positive closing shoes on primary and secondary throttle levers. To adjust, bend shoe on secondary lever.

NOTE: If necessary, bend stop lug on secondary lever to prevent secondary valves from going past wide open.

SECONDARY THROTTLE LOCK-OUT ADJUSTMENT: 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. (4430, 4619 — None).

CHOKE PISTON LINKAGE ADJUSTMENT: Remove choke coil assembly. (1) Bend a .026 inch wire gauge at a 90° angle approximately 1/8 inch from its end. (2) Open the choke valve and insert the wire gauge so that the bent portion is between the top of the slot in the choke piston cylinder and the bottom of the center of slot in the piston. Hold the wire gauge in position and close the choke valve by pressing on the piston lever in the choke housing until resistance is felt. There should now be (4431 — 5/32") (4432, 4620, 4621 — 7/64") between the top of the choke valve and inner wall of air horn. (3) To adjust bend choke connector rod.

PARTS LIST

Part No.	PART NAME
1A-248	Flange gasket
2-281	Secondary throttle valve (2)
2-289	Primary throttle valve (2)
3-1257	Secondary throttle shaft (4430, 4619)
3-1258S	Secondary throttle shaft and dog assembly (4431, 4432, 4620, 4621)
3-1277S	Auxiliary throttle shaft, valve and weight assembly (4430, 4619)
3-1339S	Auxiliary throttle shaft, valve and weight assembly (4431, 4432, 4620, 4621)
3-1620S	Primary throttle shaft and lever assy. (4430, 4619)
3-1622S	Primary throttle shaft and lever assy. (4431, 4432, 4620, 4621)
4A-175	Primary throttle shaft dog
7-287	Choke valve (all except 4430, 4619)
11B-35	Rivet Plug (4431, 4432, 4620, 4621)
11B-41	Rivet plug (4430, 4619)
11B-79	Rivet plug (2)
11B-389	Idle port rivet plug (2)
11B-391	Nozzle well plug (2)
11B-406	Secondary passage plug (2)
11B-439	Primary venturi plug (2)
14-512	Outside choke shaft lever (4431, 4431, 4620, 4621)
14-550	Inside choke shaft lever (4431, 4432, 4620, 4621)
14-609S	Choke piston lever, link and pin assembly (4431, 4432, 4620, 4621)
14-612S	Choke shaft and lever assembly piston housing (4431, 4432, 4620, 4621)
14-820S	Choke lever and shaft assembly (4431, 4432, 4620, 4621)
15-52S	Strainer nut assembly (4431, 4432, 4620, 4621)
15-58S	Strainer nut assembly (4430, 4619)
16-82X	Step-up rod (.068" x .061") Std. (4619) (2)
16-341	Step-up rod (.0685" x .059") Std. (4430) (2)
16-543	Step-up rod (.069" x .054") Std. (1 pump side 4431, 4432, 4620, 4621)

Part No.	PART NAME
16-544	Step-up rod (.0715" x .058") Std. (1 opposite pump side 4431, 4432, 4620, 4621)
17-51	Pump discharge check needle
20-43	Piston housing gasket (4431, 4432, 4620, 4621)
20-127	Strainer nut gasket
20-204	Needle seat gasket (2)
21-179S	Float and lever assembly (2)
24-29	Float lever pin (2)
25-1005S	Needle and seat assembly (Flared tip) (2)
30-78	Fuel inlet strainer
47-30	Piston housing welsh plug (4431, 4432, 4620, 4621)
47-34	Spark port welsh plug
47-36	Venturi welsh plug (2)
48-264S	Pump jet and housing assembly (4430, 4619)
48-294S	Pump jet and housing assembly (4431, 4432, 4620, 4621)
53A-412	Lockout arm and collar assembly (4431, 4432, 4620, 4621)
53A-455	Secondary throttle operating lever
53A-479	Operating lever (bowl vent) (4431, 4432, 4620, 4621)
58-942S	Primary venturi (opposite pump) (4430)
58-1153S	Secondary venturi (opposite pump) (4431, 4432, 4620, 4621)
58-1154S	Secondary venturi (pump side) (4431, 4432, 4620, 4621)
58-1155S	Primary venturi (opposite pump) (4431)
58-1156S	Primary venturi (pump side) (4431)
58-1157S	Primary venturi (pump side) (4430)
58-1160S	Secondary venturi (opposite pump) (4430, 4619)
58-1161S	Secondary venturi (pump side) (4430, 4619)
58-1176S	Primary venturi (opposite pump) (4432, 4620, 4621)
58-1177S	Primary venturi (pump side) (4432, 4620, 4621)
58-1225S	Primary venturi (opposite pump) (4619)
58-1226S	Primary venturi (pump side) (4619)

Part No.	PART NAME	Part No.	PART NAME
61-171	Pump spring	115-374	Fast idle connector rod (4431, 4432, 4620, 4621) . . .
61-291	Idle speed screw spring	117-190	Pump connector link
61-585	Step-up rod retaining spring	120-377	Secondary metering jet (.077")
61-604	Vacuum piston spring		(1 opposite pump 4431, 4432, 4620, 4621)
61-618	Secondary throttle return spring	120-380	Secondary metering jet (4430) (2)
61-649	Throttle flex spring	120-389	Secondary metering jet (.089") (4619) (2)
61-829	Bowl vent lever spring (4431, 4432, 4620, 4621) . . .	120-389	Primary metering jet (.089")
63-225	Coil housing retainer (4431, 4432, 4620, 4621) . . .	120-392	Secondary metering jet (.077")
64-212S	Pump plunger and rod assembly		(1 pump side 4431, 4432, 4620, 4621)
65-43	Step-up piston cover plate	121-78	Coil housing gasket (4431, 4432, 4620, 4621)
101-65	Choke shaft lever screw (4431, 4432, 4620, 4621) (2)	121-287	Pump jet housing gasket (4431, 4432, 4620, 4621) . . .
101-74	Throttle shaft lever screw	121-291	Heat tube cap gasket (4431, 4432, 4620, 4621) . . .
101-120	Fast idle speed screw (4431, 4432)	121-292	Air horn gasket
101-152S	Air horn screw assembly	121-293	Secondary venturi cluster gasket (4430, 4619) . . . (2)
101-184S	Pump jet housing screw assembly	121-302	Primary venturi cluster gasket (2)
101-323	Fast idle cam screw (4431, 4432, 4620, 4621) . . .	121-303	Pump jet housing gasket (4430, 4619)
101-362S	Air horn screw assembly	121-511	Secondary venturi cluster gasket (4431, 4432, 4620, 4621)
101-379S	Secondary venturi screw assembly	122-108S	Pump intake bail check assembly
101-386S	Dash pot screw assembly (4431, 4620) (4)	136-34	Choke piston lever retaining washer (4431, 4432, 4620, 4621)
101-419	Secondary throttle valve screw	136-159	Primary throttle shaft washer (4430, 4432, 4619, 4620)
101-420	Primary throttle valve screw	136-160	Secondary throttle shaft washer
101-421	Pump arm screw (4430, 4619)	136-174	Idle speed screw washer
101-426	Coil housing screw (4431, 4432, 4620, 4621) . . . (3)	150-190	Choke piston pin (4431, 4432, 4620, 4621)
101-431S	Air horn screw assembly	150A-10	Pin spring (4430, 4619-3) (4431, 4432, 4620, 4621 - 6)
101-436	Piston housing screw (4431, 4432, 4620, 4621) (3)	160-122	Choke piston (4431)
101-442S	Primary venturi screw assembly	160-128	Choke piston (4432, 4620, 4621)
101-452	Idle speed screw	160-207	Step-up piston (2)
101-558	Choke valve screw (4431, 4432, 4620, 4621) . . . (2)	164-24	Grommet seal (4431, 4432, 4620, 4621) (2)
101-560	Step-up piston cover plate screw	170-957S	Piston housing and plug assembly (4431, 4432, 4620, 4621)
101-584	Pump arm screw (4431, 4432, 4620, 4621)	170AC-538S	Thermostatic coil and housing assembly (4431-4432)
101-599	Fast idle speed screw (4620, 4621)	170AZ-538S	Thermostatic coil & housing assy. (4620, 4621) . . .
103-14	Lead shot (.180")	180-165	Dashpot bracket (4431, 4620)
103-16	Lead shot (.200")	181-345S	Fast idle cam assy. (4620, 4621)
103-19	Lead shot (4431, 4432, 4620, 4621)	181-346S	Fast idle cam assembly (4431, 4432)
105A-60	Dashpot lock nut (4431, 4620)	184-85	Choke heat tube cap (4431, 4432, 4620, 4621) . . .
108-71	Secondary throttle shaft spacer	186-65	Choke baffle plate (4431, 4432, 4620, 4621)
111-76	Pump arm	186-70	Fuel bowl baffle (2)
114-144	Primary throttle shaft arm (outer)	202-297S	Dash pot assembly (4431, 4620)
114-147	Primary throttle shaft arm (inner)		
114-179	Dash pot lever (4431, 4620)		
115-285	Choke connector rod (4431, 4432, 4620, 4621)		
115-308	Throttle operating rod		
115-372	Throttle connector rod		

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

CARTER®Form 5511A
September, 1966
Revised November, 1968

1967-69 "6" CYLINDER

BARRACUDA CB1, DB1, EB1, EB2

DART CL1, DL1, EL1, EL2, DODGE CW1

PLYMOUTH CP1, CR1

VALIANT CV1, DV1, EV1, EV2

BBS DOWN-DRAFT CLIMATIC CONTROL CARBURETORS NOS. 4218S - 4219S - 4286S - 4287S - 4292S - 4293S - 4302S - 4303S

YEAR AND MODEL			ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICR CARB. NO.	ZIP KIT NO.
1967	CL1, CV1	S/T	170	4286S	4286S	902-202
1967	CL1, CV1	A/T	170	4287S	4286S	902-202
1967	CW1, CP1, CR1 (export)	S/T	225	4218S	4218S	902-202
1967	CW1, CP1, CR1, (export)	A/T	225	4219S	4218S	902-202
1967-69	CB1, DB1, EB1, EB2, CL1, DL1, EL1	S/T	225	4292S	4292S	902-202
	EL2, CV1, DV1, EV1, EV2 (export)					
1967-69	CB1, DB1, EB1, EB2, CL1, DL1, EL1	A/T	225	4293S	4293S	902-202
	EL2, CV1, DV1, EV1, EV2 (export)					
C.A.P. (CLEANER AIR PACKAGE)						
1967	Dart CL1, Valiant CV1 (C.A.P.)	S/T	170	4302S	4302S	902-202
1967	Dart CL1, Valiant CV1 (C.A.P.)	A/T	170	4303S	4303S	902-202

CARBURETOR SPECIFICATIONS

FOR 6 CYLINDERS 170, 225 CU. IN. ENGINE: VACUUM AT IDLE 19.5 INCHES

Carb. No.	Thro. Bore Size	Main Venturi Size	Vents Air Horn & Body Flange Amt.	Idle Speed Jet Size	Idle Bleed In Body Size	Idle Econ. In Body Size	Idle Port In Flange Size	Idle R.P.M. W/Head-Lights On	Main Vent Tube Amt. Side Holes	Top Bleed Hole In Vent Tube Size	Pump Jet Size	Choke Setting	Vacuum Spark Port Size
4218S	1 $\frac{11}{16}$	1 $\frac{11}{32}$	2	.033	.0629	.052	.185 x .030	550 Neut.	6	.0315	.0275	2 P. Rich	.110 x .060
4219S	1 $\frac{11}{16}$	1 $\frac{11}{32}$	2	.0315	.0629	.052	.185 x .030	550 Neut.	6	.0315	.0275	2 P. Rich	.110 x .060
4286S	1 $\frac{11}{16}$	1 $\frac{1}{4}$	2	.0295	.061	.052	.175 x .030	550 Neut.	6	.0236	.0315	2 P. Rich	.110 x .060
4287S	1 $\frac{11}{16}$	1 $\frac{1}{4}$	2	.028	.061	.052	.175 x .030	550 Neut.	6	.0236	.0315	2 P. Rich	.110 x .060
4292S	1 $\frac{11}{16}$	1 $\frac{11}{32}$	2	.033	.0629	.052	.185 x .030	550 Neut.	6	.0315	.0275	2 P. Rich	.110 x .060
4293S	1 $\frac{11}{16}$	1 $\frac{11}{32}$	2	.0315	.0629	.052	.185 x .030	550 Neut.	6	.0315	.0275	2 P. Rich	.110 x .060
4302S	1 $\frac{11}{16}$	1 $\frac{1}{4}$	2	.0295	.061	.052	.175 x .030	700 Neut.	6	.0236	.0275	2 P. Rich	.110 x .060
4303S	1 $\frac{11}{16}$	1 $\frac{1}{4}$	2	.033	.061	.052	.175 x .030	650 Neut.	6	.0236	.0275	2 P. Rich	.110 x .060

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug Gap .035"	Breaker Point Setting .020"	Ignition Timing Breaker Points To Open (5° A.T.C. C.A.P., All Others 5° B.T.C.) At Vibration Damper	Valve Setting (Hot) Intake .010" Exhaust .020"	Float Setting See Adjustments
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IDLE MIXTURE SCREW SETTING: (C.A.P. 4302, 4303) Screw is limited to approximately 3 turns open. Adjust mixture as outlined in the car mfr. service manual. A damaged screw is replaceable with service package 30A-154U.

ALL OTHER MODELS LISTED, IDLE SCREW SETTING 1/2 TO 3-1/4 TURNS OPEN.

Carter
Carburetor
Division

CARBURETOR ADJUSTMENTS

FLOAT LEVEL: With viton and flared tip needle 1/4 inch 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 ADJUSTMENT: 4286 - 4302 - 4303 with throttle connector rod in outer hole; all others in center hole of throttle lever and plunger pin spring 4286 - 4302 - 4303 in bottom hole, all others in center hole and groove of plunger rod (throttle valve seated). Adjust connector rod to give 1/16 inch between pump plunger washer and bushing. **NOTE:** Change plunger pin spring in accord with pump stroke.

FAST IDLE THROTTLE VALVE CLEARANCE: (4219 - 4293 - 4303 - .020 inch); (4218 - 4286 - 4292 - .013 inch); (4287 - 4302 - .016 inch) between lower edge of valve and bore with fast idle screw on second step and against shoulder of first step of cam.

FAST IDLE ON CAR: (4302 - 1550 R.P.M.); (4303 - 1900 R.P.M.) hot engine with fast idle screw on second step and against shoulder of first step of cam. All others 700 R.P.M., hot engine with fast idle screw on lowest speed step of cam.

DASH POT ADJUSTMENT: (4302) (check after fast idle setting) with fast idle screw on highest step of cam, adjust dash pot for stem to just contact lever then tighten dash pot lock nut.

UNLOADER: 3/16 inch 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 (4286 - 4302 - 5/32 inch); (4219 - 4293 - 7/64 inch); (4218 - 4292 - 4303 - 9/64 inch); (4287 - 3/32 inch); 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) SEE FORM 3661 SERVICE AND ADJUSTMENT PROCEDURE: 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
2-87	Throttle valve (4218 - 4219 - 4292 - 4293)
2-100	Throttle valve (4286 - 4287)
2-278	Throttle valve (4302 - 4303)
3-1560S	Throttle shaft and lever assembly (4286 - 4287 - 4292 - 4293 - 4302 - 4303)
3-1562S	Throttle shaft and lever assembly (4218 - 4219)
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-296	Pump jet rivet plug (use 11B-108)
11B-303	Rivet plug
14-728S	Choke lever and shaft assembly (use 14-867S)
14-811	Choke lever
14-867S	Choke lever & shaft assy.
20-116	Main metering jet gasket
20-146	Step up piston gasket
20-203	Needle seat gasket
21-222S	Float and lever assembly
24-23	Float lever pin
25-1020S	Needle and seat assembly
30A-121	Idle mixture screw
30A-154U	Idle mixture screw kit (C.A.P.) (Consist of 1 each 30A-164 Idle mixture screw - 61-57 Idle mixture screw spring - 101-562 Idle lock screw hex. socket type - 103-19 Lead ball) (4302 - 4303)
38A-117	Pump plunger bushing (all except 4302 - 4303)
39-11	Choke & throttle shaft screw (use W/brass shaft) (4)
48-194	Pump jet (4218 - 4219 - 4292 - 4293 - 4302)
48-321	Pump jet (4286 - 4287 - 4303)
53A-450	Pump arm
61-58	Idle speed screw spring (2)
61-467	Idle mixture screw spring (all except 4302 - 4303)
61-484	Step up piston spring (all except 4302 - 4303)
61-538	Step up piston spring (4302 - 4303)
61-653	Pump spring (4219 - 4286 - 4287 - 4293 - 4302)
61-761	Pump spring (4218 - 4292 - 4303)
61-800	Choke lever spring
63-169	Float lever pin retainer
64-226S	Pump plunger and rod assembly
75-1590	Step up rod (.030") (4287)
75-1591	Step up rod (.032") (4219 - 4293)
75-1593	Step up rod (.026") (4286 - 4302)
75-1594	Step up rod (.029") (4303)
75-1626	Step up rod (.024") (4218 - 4292)
101-296	Idle speed screw
101-307S	Bowl cover screw assembly (2)
101-318	Pump arm screw

Part No.	PART NAME
101-359S	Air horn screw assembly (4)
101-374	Step up piston plate guide screw
101-472	Fast idle speed screw
101-473	Fast idle cam screw
101-537	Choke diaphragm bracket screw (2)
101-544S	Air horn and dash pot bracket screw assy. (4302) (2)
101-558	Choke & throttle shaft screw (use W/steel shaft) (4)
105A-60	Dash pot nut (4302)
115-345	Throttle connector rod (all except 4302)
115-370	Choke connector rod
115-398	Choke diaphragm connector rod
115-413	Pump connector rod (4302)
116-13	Pump intake and discharge check ball (2)
120-263S	Main metering jet assembly (400 to 408cc) 2 sizes lean (4218 - 4219 - 4292 - 4293)
120-264S	Main metering jet assy. (337 to 343cc) 1 size lean (4286 - 4287 - 4302 - 4303)
120-265S	Main metering jet assy. (320 to 326cc) 2 sizes lean (4286 - 4287 - 4302 - 4303)
120-268S	Main metering jet assy. (360 to 366cc) Std. (4286 - 4287 - 4302 - 4303)
120-277S	Main metering jet assembly (417 to 423cc) 1 size lean (4218 - 4219 - 4292 - 4293)
120-293S	Main metering jet assembly (436 to 444cc) Std. (4218 - 4219 - 4292 - 4293)
121-332	Body flange gasket (4286 - 4287 - 4302 - 4303)
121-336	Body flange gasket (4218 - 4219 - 4292 - 4293)
121-526	Body gasket
123-74S	Idle orifice tube and plug assembly (.0315") (4219 - 4293 - 4303)
123-76S	Idle orifice tube and plug assembly (.028") (4287)
123-84S	Idle orifice tube and plug assembly (.0295") (4286 - 4302)
123-88S	Idle orifice tube and plug assembly (.033") (4218 - 4292)
136-218	Pump plunger washer
145-242	Main vent tube (4286 - 4287 - 4302 - 4303)
145-285	Main vent tube (4218 - 4219 - 4292 - 4293)
145-294	Choke diaphragm hose
150A-10	Throttle connector rod pin spring
150A-21	Choke diaphragm pin spring
150A-22	Pump plunger pin spring
160-261S	Step up piston and plate assembly
170BC-867S	Thermostatic coil and housing assembly
180-146	Dash pot bracket (4302)
181-339	Fast idle cam (4218 - 4292)
181-340	Fast idle cam (4286)
181-341	Fast idle cam (4219 - 4287 - 4293 - 4303)
181-350	Fast idle cam (4302)
202-152S	Dash pot assembly (4302)
202-256S	Choke diaphragm and bracket assembly
202-257S	Dash pot and bracket assembly (4302)

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

NOTE: Parts not listed above are not available for servicing these carburetors.

DODGE TRUCK 413" MODELS D-7, 8 ALL/T (EXPORT ONLY)

BBD DOWN-DRAFT MANUAL CHOKE CARBURETOR NO. 8116S

CARBURETOR ADJUSTMENTS

FLOAT LEVEL: The distance between top of each float ridge (at center) and top surface of body casting should be $\frac{5}{16}$ inch. To adjust bend lip of float arm.

PUMP: Install throttle connector rod in outer hole of throttle lever. With curb idle set adjust

throttle connector rod to have 1 inch from top of bowl cover to top of plunger shaft.

BOWL VAPOR VENT: With curb idle set, adjust vapor vent arm to give .030 inch between the rubber grommet and its seat on the bowl cover.

PART NO.	PART NAME		PART NO.	PART NAME	
1A-404	Flange gasket		101-6	Pump arm screw	
2-305	Throttle valve	(2)	101-307S	Bowl cover and air horn screw	(8)
3-1977S	Throttle shaft & lever assembly		101-419	Throttle shaft screw	(4)
7-320S	Choke valve assembly		101-428	Choke tube bracket screw	(2)
14-951S	Choke shaft and lever assembly		101-466	Step-up piston plate screw	
20-146	Step-up piston gasket		101-521S	Body flange screw assembly	(4)
20-203	Needle seat gasket		101-568	Venturi cluster screw	(2)
21-196S	Float assembly		101-596	Choke valve screw	(2)
24-23	Float pin		111-82	Pump arm	
25-1003S	Needle & seat assembly		115-300	Throttle connector rod	
30A-203	Idle mixture screw	(2)	116-13	Pump discharge check ball	
53A-426S	Pump arm & countershaft assembly		116-18	Pump intake check ball	
53A-470	Bowl vent operating lever		118-294S	Venturi cover assembly	
61-226	Step-up spring		120-323S	Main metering jet assembly	(2)
61-654	Choke lever spring		121-307	Venturi housing gasket	
61-873	Idle mixture screw spring		121-560	Venturi cover gasket	
61-939	Pump spring		121-660	Body flange gasket	
62-284S	Choke tube bracket assembly		121-694	Body gasket	
63-252	Float pin retainer		136-187	Pump spring retainer	
64-420S	Pump plunger & rod assembly		150A-10	Pin spring	
75-1884	Step-up rod	(2)	160-292S	Step-up piston and plate assembly	
96-40	Idle limiter cap		164-22	Grommet seal	

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

Carter
Carburetor
Division

1966-69 "6" DODGE TRUCK

BBS DOWN-DRAFT MANUAL CHOKE CARBURETORS NOS. 3110S - 3121S - 3274S - 3277S - 3401S - 3492S

YEAR AND MODEL		ENGINE DISPL.	ORIGINAL CARB. NO.	SERVICE CARB. NO.	ZIP KIT NO.	GASKET SET NO.
1961	D4, 5, P4, S4, 5, W3, 5, (CAN. CD4, 5, P4, S5, W3, 5)	S/T. 251	3110S	3492S	902-137	341
1961	WM3	S/T. 251	3121S	3277S	902-137	364
1962	(Early) D4, 5, P4, S4, 5W3, 5 (CAN. CD4, 5, CS5, CW3)	S/T. 251	3274S	3492S	902-137	341
1962	(Late) D4, 5, P4, S4, 5W3, 5 (CAN. CD4, 5, CS5, CW3)	S/T. 251	3401S	3492S	902-156	341
1962-69	WM3	S/T. 251	3277S	3277S	902-137	364
1963	D5, S5, W5, (CAN. CD5, CS5)	S/T. 251	3492S	3492S	902-156	341

CARBURETOR SPECIFICATIONS

FOR 6 CYLINDERS 251 CU. IN. ENGINE:

Carb. No.	Thro. Bore Size	Main Vent. Size	Vents Air Horn	Idle Speed Jet Size	Idle Bleed Size	Idle Econ. Size	Idle Port Size	Idle R.P.M. W/Head-Lights On.	Main Vent Tube. Amt. Side Holes	Top Bleed Hole Size	Pump Jet Size	Choke Setting	Vacuum Spark Port Size
3110S	1-11/16"	1-11/32"	1	.0295"	.0629"	.061"	.143" x .030"	500 Neut.	6	.0236"	.0394"	None	.110" x .030"
3121S	1-11/16"	1-11/32"	1	.0295"	.0629"	.061"	.143" x .030"	500 Neut.	6	.0236"	.0394"	None	.110" x .030"
3274S	1-11/16"	1-11/32"	1	.0295"	.0629"	.061"	.143" x .030"	500 Neut.	6	.0236"	.0394"	None	.110" x .060"
3277S	1-11/16"	1-11/32"	1	.0295"	.0629"	.061"	.143" x .030"	500 Neut.	6	.0236"	.0394"	None	.110" x .060"
3401S	1-11/16"	1-11/32"	1	.0295"	.0629"	.061"	.143" x .030"	550 Neut.	6	.0236"	.0394"	None	.110" x .060"
3492S	1-11/16"	1-11/32"	1	.0295"	.0629"	.061"	.143" x .030"	550 Neut.	6	.0236"	.0394"	None	.110" x .060"

MOTOR TUNE-UP — BE ACCURATE!

Spark Plug Gap .035"	Breaker Point Setting .020"	Ignition Timing Breaker Points to Open 5° B.T.C. At Vibration Damper	Valve Setting (Hot) Intake .010" Exhaust .014"	Float Setting See Adjustments	Idle Adjustment Screw Setting 1/4 to 2 Turns Open
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Carter
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CARBURETOR ADJUSTMENTS

FLOAT LEVEL: 7/32 inch 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 ADJUSTMENT: With throttle connector rod in center hole (medium stroke) of throttle lever and plunger pin spring in center hole and groove of plunger rod, (throttle valve tightly closed) adjust connector rod to give 1/16 inch between pump plunger washer and bushing.
NOTE: Change plunger pin spring in accord with pump

stroke.

FAST IDLE LINKAGE ADJUSTMENT: (3492S Only) with fast idle screw on cam index, adjust choke connector rod to give 5/32 inch between top edge of choke valve and inner wall of air horn.

FAST IDLE THROTTLE VALVE CLEARANCE: (3492S Only) .040 inch between lower edge of throttle valve and bore with adjusting screw on index mark of cam.

PARTS LIST

Part No.	PART NAME	Part No.	PART NAME
1A-148	Flange gasket WO/G	61-653	Pump spring
1A-158	Flange gasket W/G	61-866	Choke pull back spring
2-87	Throttle valve	62-243S	Choke tube bracket assembly
3-1305S	Throttle shaft and lever assembly (3110S - 3274S - 3401S)	63-57	Intake ball check retainer (all except late 3277S - 3492S)
3-1307S	Throttle shaft and lever assembly (3121S - 3277S)	63-169	Float lever pin retainer
3-1419S	Throttle shaft and lever assembly (3492S)	64-226S	Pump plunger and rod assembly
7-195S	Choke valve assembly	75-1507	Step-up rod (.033")
11B-35	Rivet plug	100-16	Idle speed screw
11B-79	Rivet plug (6)	101-10	Wire clamp screw
11B-108	Pump jet rivet plug	101-290	Choke tube bracket screw
11B-220	High speed passage rivet plug	101-307S	Bowl cover screw assembly (2)
11B-296	Pump jet rivet plug (Use 11B-108)	101-318	Pump arm screw
11B-303	Rivet plug	101-359S	Air horn screw assembly (4)
11B-433	Rivet plug (3277S - 3492S)	101-374	Step-up piston plate guide screw
14-695S	Choke lever and shaft assembly (all except 3492)	101-472	Fast idle cam spring (3492S)
14-751S	Choke lever and shaft assy. (3492S) (Use 14-870S)	101-558	Choke valve screw W/ steel shaft
14-870S	Choke lever and shaft assy. (3492)	105-11	Tube clamp screw
20-31	Needle seat gasket (3110, 3121, 3274, 3277) (Use 20-203)	105A-8	Tube clamp nut
20-116	Main metering jet gasket	115-347	Throttle connector rod
20-146	Step-up piston gasket	115-370	Choke connector rod (3492S)
20-203	Needle seat gasket (3401-3492)	116-13	Pump intake and discharge check ball (2)
21-144S	Float and lever assembly	120-205S	Main metering jet assembly (426-434 CC) Standard
24-23	Float lever pin	120-206S	Main metering jet assembly (402-410 CC) 1 size lean (2,500 to 5,000 ft.)
25-426S	Needle and seat assembly (3401S - 3492S) (Use 25-1020S)	120-213S	Main metering jet assembly (337-343 CC) 4 sizes lean (above 10,000 ft.)
25-428S	Needle and seat assembly (3110S - 3121S - 3274S - 3277S) (Use 25-969S)	120-214S	Main metering jet assembly (356-364 CC) 3 sizes lean (7,500 to 10,000 ft.)
25-969S	Needle and seat assembly (Flared Tip) (3110S - 3121S - 3274S - 3277S)	120-215S	Main metering jet assembly (378-386 CC) 2 sizes lean (5,000 to 7,500 ft.)
25-1020S	Needle and seat assembly (Flared Tip) (3401S - 3492S)	121-331	Body gasket
30A-44	Idle mixture screw	121-336	Body flange gasket
38A-117	Pump plunger bushing	123-84S	Idle orifice tube and plug assembly (.0295")
39-11	Choke and throttle valve screw (W/ brass shaft) (2)	136-218	Pump plunger washer
48-219	Pump jet	145-136	Main vent tube
53A-450	Pump arm	145-254	Rubber hose (crankcase vent)
61-58	Fast idle screw spring (3492S)	150A-10	Throttle connector rod pin spring
61-291	Idle speed screw spring	150A-22	Pump plunger pin spring
61-467	Idle mixture screw spring	160-124S	Step-up piston and plate assembly
61-484	Step-up piston spring	181-307	Fast idle cam (3492S)
61-511	Choke pullback spring (Use 61-866)		

NOTE: Figures in parentheses indicate number of pieces used in one carburetor. Where no figure is shown, only one is used. Parts not listed above are not available for servicing these carburetors.