

1971 "V8"
BARRACUDA B - CHALLENGER J
DART L - VALIANT V

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

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

CARBURETOR SPECIFICATIONS

AND

ADJUSTMENT DATA

SEE BACK PAGE FOR PROCEDURE

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

MOTOR TUNE-UP — BE ACCURATE!

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



CARBURETOR ADJUSTMENTS

SEE FRONT PAGE FOR SPECIFIC SETTINGS

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

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

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

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

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

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

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

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

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

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

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

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

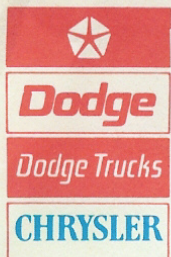
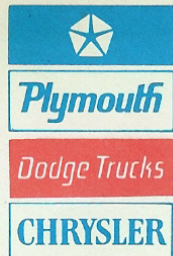
PARTS LIST

Part No.	PART NAME	
1A-337	Flange gasket	(2)
2-310	Primary throttle valve	(2)
2-312	Secondary throttle valve	(2)
3-1793S	Primary throttle shaft, lever & dog assy.	
3-1807S	Secondary throttle shaft & dog assy.	
7-316	Choke valve	
7-321	Air valve	
11B-223	Bowl vent plug	
11B-487	Air valve adjustment plug	
11B-488	Air valve lock plug	
13-300S	Choke shaft and lever assy.	
13-301S	Air valve shaft & lever assy.	
14-943	Choke adjusting lever	
14-944	Choke countershaft lever	
15-57	Fuel inlet fitting	
16-655	Step-up rod (.062" x .040") Std.	(2)
17-70	Pump discharge check needle	
20-239	Needle seat gasket	(2)
20-243	Fuel inlet fitting gasket	
20-262	Hot idle valve gasket	
21-249S	Float assy.	(2)
24-15	Float lever pin	(2)
25-1086S	Needle and seat assy.	(2)
30A-207	Idle mixture screw	(2)
48-365S	Pump jet and housing assy.	
51-87	Throttle shaft collar	
51-88	Choke shaft collar	
53A-518S	Pump operating lever assy.	
53A-520S	Fast idle operating arm	
53A-523	Bowl vent arm	
53A-526S	Bowl vent operating lever	
53A-527	Bowl vent operating arm	
61-84	Fast idle & idle speed screw spring	(2)
61-716	Choke lever spring (4972)	
61-761	Pump spring upper	
61-800	Choke lever spring (4973)	
61-886	Air valve spring	
61-873	Idle mixture screw & solenoid speed screw spring	(3)
61-889	Pump spring lower (use 63-426S)	
61-890	Secondary throttle shaft spring	
61-912	Bowl vent arm spring	
61-915	Vacuum piston spring (4973)	
61-925	Primary throttle shaft spring	
61-928	Vacuum piston spring (4972)	
63-336	Connector rod retainer	(5)
63-397	Intake disc check retainer (use 63-426S)	
63-398	Intake disc check seat (use 63-426S)	
63-426S	Pump intake check assy.	
64-417S	Pump plunger assy.	
65-68	Step-up piston cover plate	

Part No.	PART NAME	
65-69	Step-up rod cover plate (L-H)	
65-74	Step-up rod cover plate (R-H)	
96-36	Idle mixture screw limiter cap	(2)
101-387	Idle speed screw	
101-421	Pump arm screw	
101-505	Choke diaphragm bracket screw	
101-596	Choke & air valve screw	(4)
101-616	Bowl cover screw	(8)
101-617	Cover plate screw	(3)
101-618	Pump jet housing	
101-629	Solenoid operating lever screw	
101-634	Choke countershaft lever screw	
101-635	Bowl vent operating arm screw	
101-637	Fast idle speed screw	
101-638	Choke lever screw	
101-646	Primary throttle valve screw	(4)
101-657	Bowl cover screw	(2)
101-663	Secondary throttle valve screw	(4)
101-667	Fast idle operating lever screw	
111-76	Pump arm	
113-99S	Choke countershaft & lever assy.	
114-192	Choke lever	
115-491	Choke diaphragm connector rod	
115-492	Throttle operating rod	
115-495	Choke connector rod	
115-500	Bowl vent connector rod	
115-507	Fast idle connector rod	
115-508	Throttle connector rod	
117-190	Pump connector link	
120-3074	Primary metering jet	(2)
120-3125	Secondary metering jet	(2)
121-662	Pump jet housing gasket	
121-679	Air horn gasket	
121-686	Body flange gasket	(2)
136-300	Throttle shaft spring washer	
136-308	Choke diaphragm connector rod washer	
145-304	Choke diaphragm hose	
145-406	Pump passage tube	
150A-14	Pin spring	
150A-21	Pin spring	
160-315S	Step-up piston and link assy.	
164-30	Grommet seal	
169-147	Intake check (use 63-426S)	
169-153S	Hot Idle valve assy.	
170BA-148S	Thermostatic coil housing and rod assy.	
184-118	Vacuum tube cap	
186-156	Secondary baffle plate	
202-407S	Choke diaphragm & bracket assy. (4973)	
202-414S	Choke diaphragm & bracket assy. (4972)	

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

SERVICE



BULLETIN

DATE 08-01-75 NO. 14-06-75

SUBJECT:
SUJET:

FUEL
METERING ROD ADJUSTMENTS

MODELS:
MODÈLES:

ALL VEHICLES EQUIPPED WITH
THERMO-QUAD 4-BBL. CARBURETORS

SERVICE CAUTION

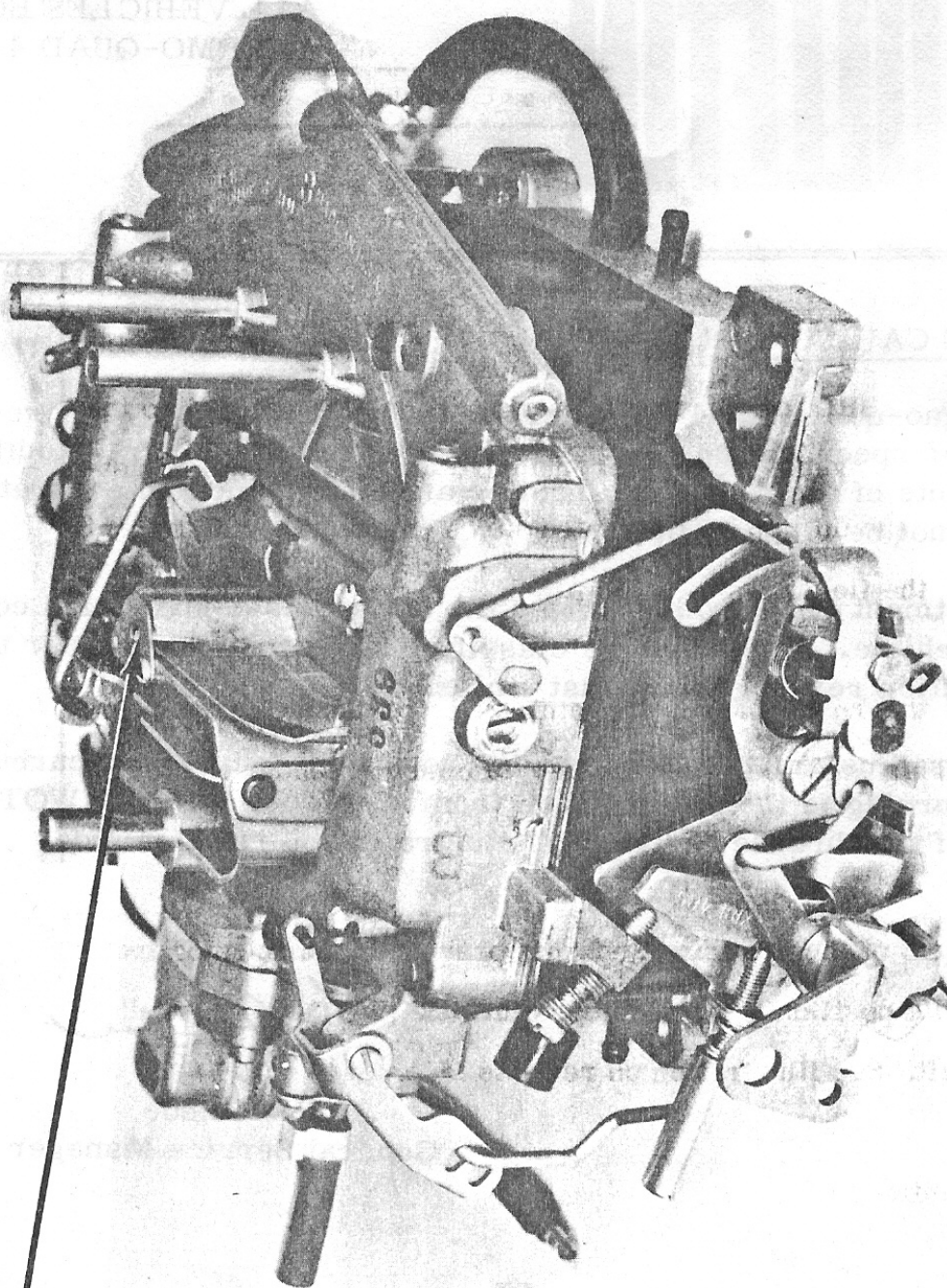
The thermo-quad (TQ) 4-BBL carburetor metering rods are pre-set to the proper specifications by the carburetor manufacturer. Additional adjustments of the rods should not be attempted since an accurate adjustment cannot be made in the field.

Misadjustment of the rods changes the emissions certification condition for the vehicle. This could be classified as "tampering" under the terms of legislation relating to exhaust emissions.

Also, misadjustment of the metering rods may prevent the carburetor from returning to the idle position from wide open throttle (WOT) due to binding of the throttle shaft. See illustration on reverse side.

K.N. Gilboe
General Service Manager

14-06-75



DO NOT ADJUST
METERING RODS