

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	101-472	Idle speed screw (4613, A, 4614, 4748, A)
2-295	Throttle valve (4422, 4423, 4578) (2)	101-557	Venturi cluster screw (4614, 4774) (2)
2-305	Throttle valve (4613, A, 4614, 4748, A, 4774) (2)	101-558	Choke valve screw
3-1626S	Throttle shaft & lever assy. (4423) (use 3-1672S)	101-569	Venturi cluster screw (4578) (2)
3-1672S	Throttle shaft & lever assy. (4422, 4423, 4578)	101-593	Venturi cluster screw (4422, 4423, 4613, A, 4748, A) (2)
3-1685S	Throttle shaft & lever assy. (4613, A, 4614, 4748, A, 4774)	103-14	Lead shot
7-281	Choke valve (use 7-304)	103-15	Lead shot (2)
7-304	Choke valve	111-82	Pump arm
14-848S	Choke lever and shaft assembly (use 14-901S)	115-300	Throttle connector rod
14-850S	Choke lever assembly	115-301	Fast idle connector rod
14-901S	Choke lever & shaft assembly	115-395	Choke diaphragm connector rod
20-146	Step up piston gasket	116-13	Pump discharge check ball
20-203	Needle seat gasket	116-18	Pump intake check ball
21-196S	Float and lever assembly	118-294S	Venturi cover assembly
24-23	Float lever pin	120-296S	Main metering jet (530-540CC)
25-1003S	Needle and seat assembly (flared tip)		1 size lean (4422) (2)
30A-166	Idle air screw (all "S" carbs except 4774)		Main metering jet (500-510CC)
53A-426S	Pump arm and countershaft assembly		2 sizes lean (4422) (2)
53A-429S	Fast idle arm and screw assembly		Main metering jet (555-565CC) Std. (4422) (2)
53A-470	Loose lever arm		Main metering jet (555-565CC)
61-58	Idle speed screw spring		Std. (4423, 4578, 4613, A) (2)
61-208	Fast idle speed screw spring	120-323S	Main metering jet (595CC) STD (4614, 4774) (2)
61-451	Pump spring	120-329S	Main metering jet (530-540CC) STD (4748, A) (2)
61-467	Idle air screw spring ("S" carbs except 4774)	121-307	Venturi housing gasket
61-484	Step-up piston spring	121-560	Venturi cover gasket
61-528	Pump spring (use 61-451)	121-615	Body flange gasket
63-252	Float lever pin retainer	121-616	Body gasket
64-210S	Pump plunger and rod assembly	136-187	Pump spring retainer washer
75-1652	Step up rod (.035 x .027) (4422) (2)	145-303	Choke diaphragm hose
75-1738	Step up rod (.038 x .034) (4423, 4578, 4613, A, 4748, A) (2)	150A-10	Pin spring
75-1829	Step up rod (.044 x .041) (4614, 4774) (2)	150A-21	Choke diaphragm pin spring
101-6	Pump arm screw	160-292S	Step up piston and plate assembly
101-70	Fast idle arm screw	164-22	Grommet seal
101-296	Idle & fast idle speed screw (4422, 4423, 4578, 4774) (2)	170BC-945S	Thermostatic coil housing & rod assembly
101-307S	Air horn screw assembly (3)	181-337	Fast idle cam
101-362S	Body flange screw assembly (4)	202-328S	Choke diaphragm & bracket assy. (4422, 4423, 4578)
101-419	Throttle valve screw (4)	202-337S	Choke diaphragm & bracket assy. (4613, A, 4748, A)
101-428	Choke diaphragm bracket screw (2)	202-342S	Choke diaphragm & bracket assy. (4614, 4774)
101-466	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.