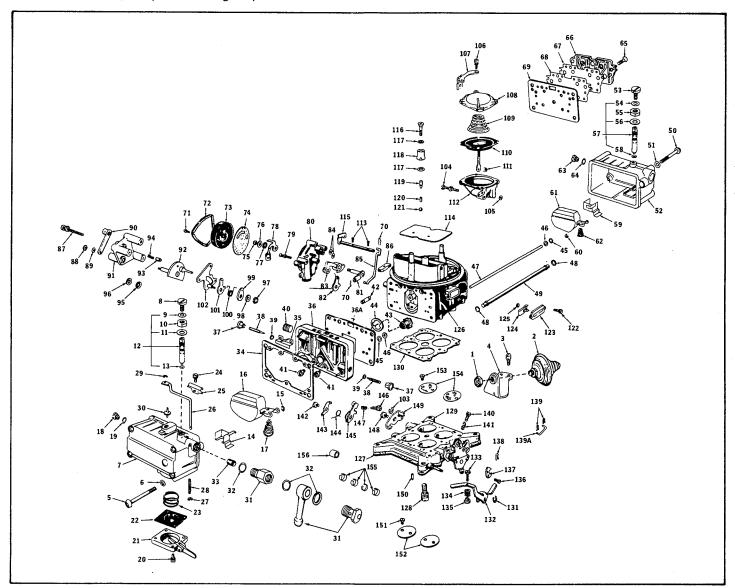
instruction sheet Holley Carburetor Model 4160

TYPICAL VIEW

The exploded view shown is typical of the model carburetor this kit will service, the view may differ slightly from the actual carburetor being renewed.

This kit may contain more parts than are actually required to service a given carburetor. When similar gaskets or parts are included in the kit, compare with original parts.



NOMENCLATURE					
REF. NO.	REF. NO.	REF. NO.	REF. NO.		
 Dashpot nut Dashpot assembly Dashpot bracket screw & lockwasher Dashpot bracket Fuel bowl to main body screw primary Fuel bowl screw gasket Fuel bowl assembly primary Fuel valve seat lock screw Fuel valve seat lock screw gasket Fuel valve seat adjusting nut Fuel valve seat adjusting nut gasket 	13. Fuel valve seat "O" ring seal 14. Baffle plate primary 15. Float retainer 16. Float assembly primary 17. Float spring primary 18. Fuel level check plug 19. Fuel level check plug gasket 20. Accel. pump cover assy. screw & lockwasher 21. Accel. pump cover assy. 22. Accel. pump diaphragm assembly 23. Diaphragm return spring 24. Air vent clamp screw & lockwasher	26. Air vent rod 27. Air vent spring retainer 28. Air vent spring 29. Air vent valve retainer 30. Air vent valve 31. Fuel inlet fitting 32. Fuel inlet fitting gasket 33. Filter screen 34. Fuel bowl gasket 35. Metering body vent baffle 36. Metering body assembly primary 37. Idle needle limiter cap 38. Idle adjusting needle 39. Idle adjusting needle	41. Main metering jet 42. Tube & "O" ring assy. 43. Power valve assembly 44. Power valve assy. gasket 45. Balance tube washer 46. Balance tube "O" ring seal 47. Balance tube 48. Fuel line tube "O" ring seal 49. Fuel line tube 50. Fuel bowl to main body screw sec. 51. Fuel bowl assy. sec. 52. Fuel bowl assy. sec. 53. Fuel valve seat lockscrew sec.		
Fuel inlet valve & seat assembly	25. Air vent rod clamp	40. Spark fitting or plug	Ata		

	-	•	
REF		REF.	
NO.		NO.	
54.	Fuel valve seat lockscrew gasket	105.	Secondary diaphragm housing
cc	Sec.	106	gasket Sec. housing cover screw &
	Fuel valve seat adjusting nut sec. Fuel valve seat adjusting nut	100.	lockwasher
50.	gasket secondary	107	Choke control wire bracket
57	Fuel inlet valve & seat assembly		Sec. housing cover
٥,.	secondary	109.	Sec. diaphragm spring
58	Fuel valve seat "O" ring seal		Sec. diaphragm & rod assembly
٠٠.	secondary		Diaphragm housing check ball
59.	Baffle plate secondary		Sec. diaphragm housing
	Float retainer		Choke plate screw
	Float assembly secondary	114.	Choke plate
	Float spring secondary		Choke shaft assy.
6 3.	Fuel level check plug	116.	Pump discharge nozzle screw
64.	Fuel level check plug gasket		Pump discharge nozzle screw
65.	Secondary metering body screw		gasket
	Secondary metering body		Pump discharge nozzle
67.	Secondary metering body plate		Pump discharge needle
	gasket		Pump discharge ballweight
	Secondary metering body plate		Pump discharge check ball
	Secondary metering body gasket		H.I.C. cover screw
	Choke rod retainer	123.	H.1.C. cover
	Therm, housing clamp screw	124.	Hit idle compensator assembly
	Therm. housing clamp		H.I.C. seal
	Therm, housing assembly		Main body assy. Flange gasket
	Therm, housing gasket Therm, shaft nut		Throttle body screw &
	Therm, shaft nut lockwasher	120.	lockwasher
	Therm, lever spacer	129	Throttle body
72	Therm, lever, link and piston		Throttle body gasket
70.	assy.		Pump operating lever retainer
79.	Choke housing screw &		Pump operating lever
,	lockwasher		Pump lever adj. screw
80.	Choke housing assy.		Pump lever adj. screw spring
	Choke housing shaft & lever	135.	Pump lever adj. screw fitting
	assy.	136.	Pump cam lock screw
	Choke therm. lever		Pump cam
	Fası idle cam assy.		Throttle connector pin retainer
	Choke housing gasket		Throttle connector cotter pin
	Choke rod		Throttle stop screw
	Choke rod seal		Throttle stop screw spring Fast idle cam lever screw &
87.	Fast idle cam plate screw &	142.	lockwasher
00	lockwasher	1/2	Fast idle pick up lever
	Choke control lever nut Choke control lever nut		Fast idle cam lever spring
о э.	lockwasher		Fast idle cam lever
an	Choke lever & swivel assembly		Fast idle cam lever adjusting
	Fast idle cam plate	110.	screw
	Fast idle cam & shaft assembly	147.	Fast idle cam lever screw spring
	Fast idle cam plunger		Diaphragm lever assy, screw &
	Fast idle cam plunger spring		lockwasher
	Choke oper, lever spring washer	149.	Diaphragm lever assy.
	Choke oper. lever washer		Diaphragm lever adjusting screw
	Back up plate stud nut		Throttle plate screw primary
00	Double to the same at the same	150	Throttle plate primary

DISASSEMBLY

Back up plate stud nut

101. Choke rod lever & bushing assy.

Diaphragm housing screw &

102. Back up plate & stud assembly

103. Sec. diaphragm retainer

lockwasher Choke spring washer

lockwasher

100. Choke spring

152. Throttle plate primary

pri. & sec.

primary

Throttle plate screw secondary

Throttle shaft bearing (ribbon)

Throttle plate secondary

156. Throttle shaft bearing (solid)

Rest the carburetor on a repair stand to avoid damage to the throttle plates during renew procedures. Use exploded view as a guide, and follow the numerical sequence in general to disassemble unit far enough to permit cleaning and inspection. Do not remove throttle plates or shaft. Idle limiter: turn the idle limiter cap to its leanest (clockwise) position and remove cap. Observe and record the initial position of the needle slot. Turn the idle needles clockwise until lightly seated, recording the number of turns required to seat the needles. This procedure is necessary to reinstall the idle needles after renewing. Use care not to damage idle adjusting needles when removing idle limiter caps.

CLEANING

Cleaning must be done with carburetor disassembled. Soak parts long enough to soften and remove all foreign material. Use a carburetor solvent, lacquer thinner or denatured alcohol. Make certain the throttle body is free of all hard carbon deposits. Wash off in suitable solvent. Blow out all passages in castings with compressed air and check carefully to insure thorough cleaning of obscure areas.

CAUTION: Do not soak parts containing rubber or plastic material. Serious damage could result.

Fuel bowls, should only be exposed to carburetor cleaner long enough to permit removal of gum and varnish deposits with a brush. (NOTE: Some fuel bowls have internal "O" ring seals which are not removable, but can be damaged by prolonged exposure to some carburetor cleaning solvents.)

REASSEMBLY

Reassemble in reverse order to disassembly. Note special instructions and follow outline in making adjustments.

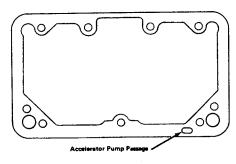
Manually operate the throttle lever and choke mechanism, checking for binding or malfunction. Any binding or interference could cause throttle to stick during operation and result in loss of carburetor throttle control (or uncontrolled engine speed).

Check carburetor to be sure there are no leaks, flooding. Which might cause a fire.

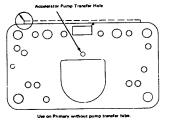
SPECIAL INSTRUCTIONS

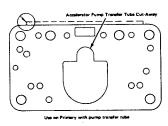
IDLE ADJUSTING NEEDLE - Tapered portion of needle must be straight and smooth. If grooved or ridged, a new needle should be

PUMP INLET CHECK VALVE - Lubricate tip of new valve and insert in center hole in pump cavity. Pull thru from fuel bowl side until seated.



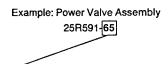
The primary fuel bowl gasket must be installed with the accelerator pump passage on the right side of the main jets. Fuel bowl screws must be torqued to 40 inch pounds.



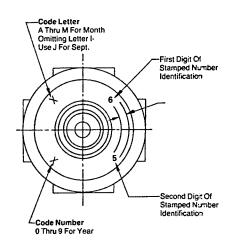


Some 4160 models use primary metering body gaskets with additional stock in this area. Applications using this gasket have the top bead or lip of the metering body removed.

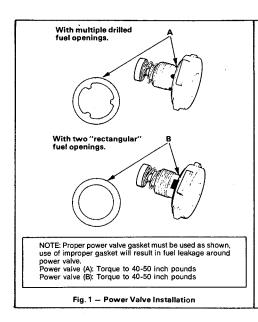
POWER VALVE IDENTIFICATION

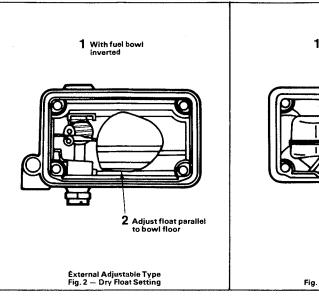


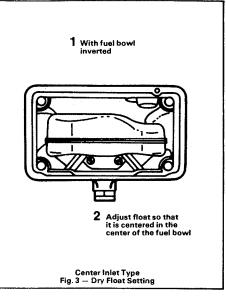
65 Which designates the stamped number, also identifies the opening point of the power valve (i.e., 6.5" vacuum).

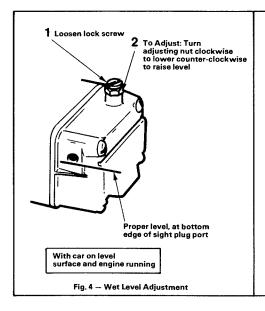


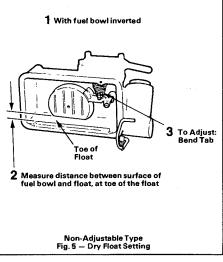
CARBURETOR ADJUSTMENTS

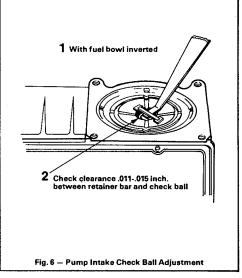


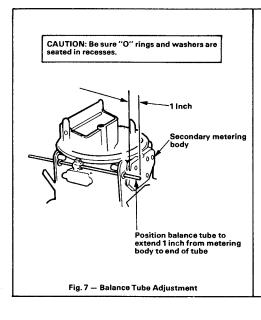


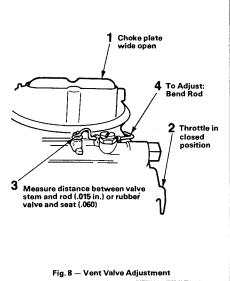


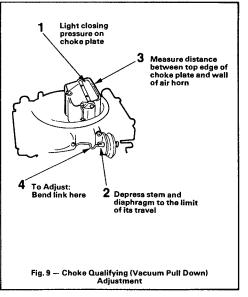












CARBURETOR ADJUSTMENTS

