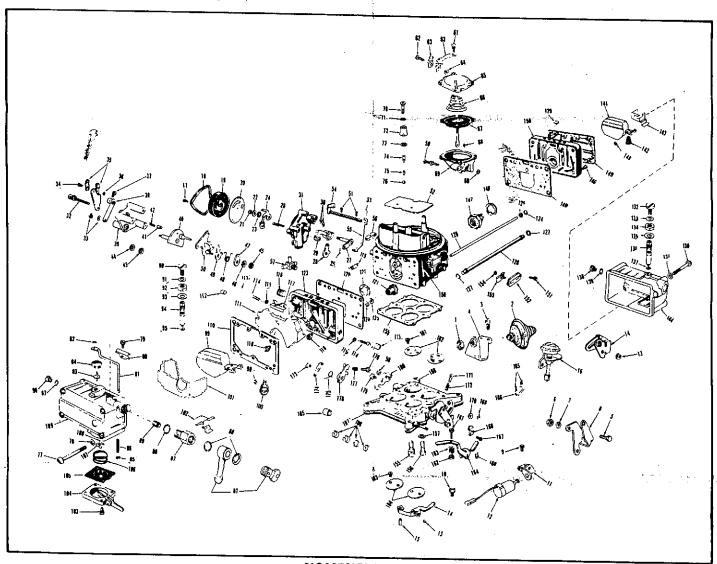
instruction sheet Holley Carburetor Model 4150/4150C

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.

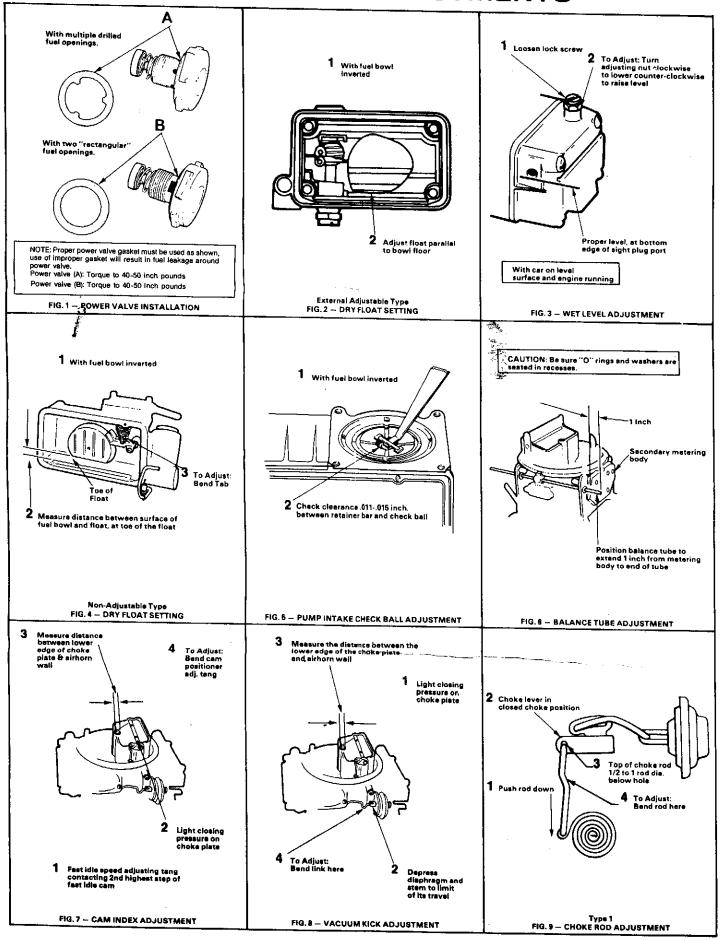
This kit may contain more parts than are actually required to service a given carburetor. When similar gaskets or parts are included in the kit, compare with original parts.



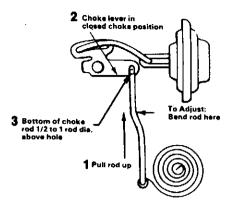
NOMENCLATURE

REF. NO.	REF. NO.	REF. NO.	REF.
1. Dashpot nut 2. Dashpot assembly 3. Dashpot bracket screw 4. Dashpot bracket 5. Throttle lever extension screw 6. Throttle lever extension nut 7. Lockwasher extension nut 8. Throttle lever extension 9. Solenoid bracket screw 10. Solenoid bracket screw 11. Solenoid bracket 12. Solenoid assembly 13. Cam follower retainer 14. Cam follower lever 15. Pump oper, lever screw sleeve 16. Modulator assembly	17. Therm, housing clamp screw 18. Therm, housing clamp 19. Thermostat housing assy, 20. Thermostat housing gasket 21. Choke therm, shaft nut 22. Shaft nut lockwasher 23. Therm, lever spacer 24. Therm, lever, link & piston assembly 25. Choke rod retainer 26. Choke housing screw 27. Choke housing lever & shaft assembly 28. Choke therm, lever 29. Fast idle cam assembly 30. Choke housing gasket	31. Choke housing assembly 32. Fast idle cam plate screw 33. Choke control lever nut & lockwasher 34. Wire bracket clamp screw 35. Choke control wire bracket clamp 36. Wire bracket clamp screw nut 37. Choke lever assembly swivel screw 38. Choke lever & swivel assembly 39. Fast idle cam plate 40. Fast idle cam & shaft assembly	41. Fast idle cam plunger 42. Fast idle cam plunger spring 43. Choke oper, lever spring washer 44. Choke oper, lever washer 45. Back up plate stud nut 46. Stud nut lockwasher 47. Choke spring washer 48. Choke spring 49. Choke rod & lever bushing assembly 50. Back up plate & stud assy. 51. Choke plate 52. Choke plate 53. Choke rod retainer 54. Choke lever & shaft assy. 55. Choke rod
●1992 Holley Replacement Parts	PRINTED IN U.S.A.		(Nomenclature continued on next page)

CARBURETOR ADJUSTMENTS



CARBURETOR ADJUSTMENTS



Type II
FIG. 10 — CHOKE ROD ADJUSTMENT

4 Measure the distance between the lower edge of the choke plate & airhorn wall

5 To Adjust: Bend throttle lever unloader tang

- 3 Light closing pressure on choke plate
- 2 Throttle plates in wide open position
- 1 Choke rod properly adjusted

FIG. 11 - UNLOADER ADJUSTMENT

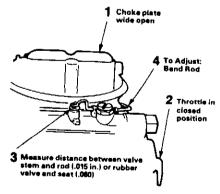
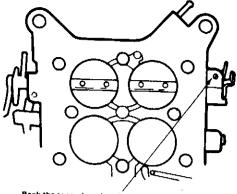


FIG. 12 — VENT VALVE ADJUSTMENT



Back the secondary throttle stop screw out until the secondary throttle plates are closed in the throttle bore. Turn the screw in (clockwise) until it just touches the stop on the lever, then give it an additional 1/4 turn.

FIG. 14 — SECONDARY THROTTLE STOP ADJUSTMENT

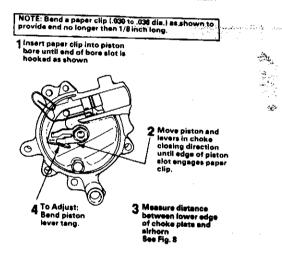


FIG. 15 — CHOKE QUALIFYING (INTEGRAL CHOKE)
ADJUSTMENT

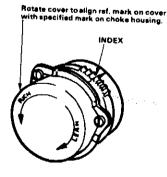


FIG. 16 — CHOKE ADJUSTMENT

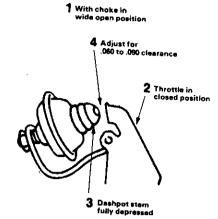
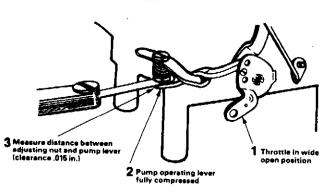


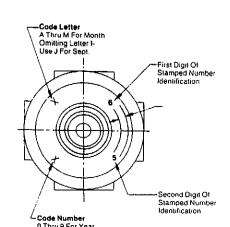
FIG. 17 - DASHPOT ADJUSTMENT

POWER VALVE IDENTIFICATION

Example: Power Valve Assembly 25R591-65

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





NOMENCLATURE Continued

REF.	REF.
NO.	NO.
56. Choke rod seal	126. Balance tube
57. Four-way hose connector	127. Fuel line tube O-ring seal
58. Sec. diaph. link retainer	128. Fuel line tube
59. Sec. diaph. housing screw 60. Sec. diaph. housing gasket	129. Sec. bowl vent valve
 Sec. diaph, cover screw 	130. Sec. fuel bowl screw 131. Sec. fuel bowl screw gasket
62. Wire bracket & clamp screw	132. Sec. fuel valve seat lock
63. Wire bracket clamp 64. Clamp screw nut	screw
65. Sec. diaph. cover	133. Fuel valve seat lock screw
66. Sec. diaph, spring	gasket 134. Sec. fuel valve seat adj.
67. Sec. diaph, & link assv.	nut
68. Sec. diaph, housing check ball	135. Fuel valve seat adj. nut gasket
69. Sec. diaphragm housing 70. Pump disch, nozzle screw	136. Sec. fuel inlet valve &
71. Pump disch, nozzle screw	seat assembly 137. Fuel valve seat O-ring seal
gasket	136. Sec. fuel level check blug
72. Pump disch, nozzle	139. Fuel level check plug gasket
73. Pump disch, nozzle gasket 74. Pump disch, needle valve	140. Float retainer
/5. Pump check ball weight	141. Sec. float assembly 142. Sec. float spring
76. Pump discharge nozzle	143. Sec, baffle plate
check ball' 77. Primary fuel bowl screw	144. Sec. fuel bowl assembly
78. Primary fuel bowl screw	 Sec. fuel bowl gasket Sec. metering jet
gasket £	147. Sec. power valve assy.
79. Air vent člamp screw	145. Sec. power valve dasket
80. Air vent rod clamp 81. Air vent rod	149. Sec. metering body gasket
82. Air vent valve retainer	150. Sec. metering body assy. 151. H.I.C. cover screw
83. Air vent valve	152, H.I.C. cover
84. Air vent cap	153. Hot idle compensator assy.
85. Air vent rod spring retainer	I 194. H.I.C. seal
86. Air vent rod spring	155. Throttle body screw & lockwasher
87. Fuel inlet fitting	156. Throttle body screw
88. Fue inlet fitting gasket 89. Fuel inlet filter	157. Throttle body screw gasket
90. Pri. fuel valve seat lock	158. Main body assembly
screw	159. Throttle body gasket 160. Pump oper, lever retainer
91. Fuel valve seat lock screw gasket	161. Pump lever adi, screw
92. Fuel valve seat adj. nut	162. Pump lever adj. screw fitting
93. Fuel valve adj. nut gasket	163. Pump lever adj. screw
94. Pri. fuel inlet & valve	spring
seat assembly 95. Fuel valve seat O-ring seal	164. Pump lever
96. Fuel level check plug	165. Throttle connector rod cotter pin
97. Fuel level check plug gasket	166. Throttle connector rod
98. Float retainer	167. Pumo cam lock screw
99. Primary float assembly 100. Primary float spring	168. Pump cam
101. Primary fuel bowl filler	169. Throttle connector pin retainer
102. Primary baffle plate	170. Throttle connector pin
103. Pump diaph. cover screw & lockwasher	washer
104. Primary pump diaph, cover	171. Throttle stop screw 172. Throttle stop screw spring
assembly	1/3. Fast idle cam lever screw
105. Primary pump diaph. assy, 106. Pri, diaph, return spring	& lockwasher
107. Pri. check ball retainer	174. Fast idle cam pick up lever 175. Fast idle cam lever spring
108. Pri. check ball or check valve	1/6. Fast idle cam lever adj.
109. Pri, fuel bowl assembly	screw 177. Fast idle cam lever adj.
110. Pri. fuel bowl gasket	screw spring
111. Pri, metering body filler 112. Vacuum tube plug	178. Fast idle cam lever
113. Idle limiter cap	179. Secondary diaph, lever assembly screw
114. Idle adi, needle	180. Sec. diaph. lever assy.
115. Idle adj. needle seal	181. Sec. throttle plate screw
116. Spark hole plug 117. Metering body vent baffle	182. Sec. throttle plate
118. Primary metering let	183. Pri. throttle plate screw 184. Pri. throttle plate
119. Tube & O-ring assembly	185. Pri. throttle shaft bearing
120. Pri. metering body gasket 121. Pri. power valve assy.	(solid)
122. Pri. power valve gasket	186. Throttle shaft bearing
123. Pri, metering body assy.	(ribbon) pri. & sec. 187. Flange gasket
124. Balance tube washer	188. Throttle body assembly

188. Throttle body assembly

Balance tube washer

125. Balance tube O-ring seal

DISASSEMBLY

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 of 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.

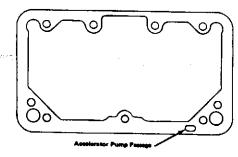
SPECIAL INSTRUCTIONS

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

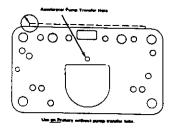
PUMP INLET CHECK VALVE — Lubricate tip of new valve and insert in center hole in pump cavity. Pull thru from fuel bowl side until

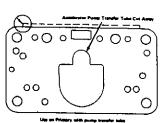
CHOKE PLATE SCREW — Choke plate screws are staked to prevent loosening. To avoid breaking or stripping the threads in the choke shaft, lightly file off the staking. Choke plates screws should be restaked after tightening to prevent loosening.

THROTTLE BODY - Do not remove throttle shaft or plates. If throttle plates are nicked or damaged, it will be necessary to replace the throttle body.



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.





Metering Body Gaskets