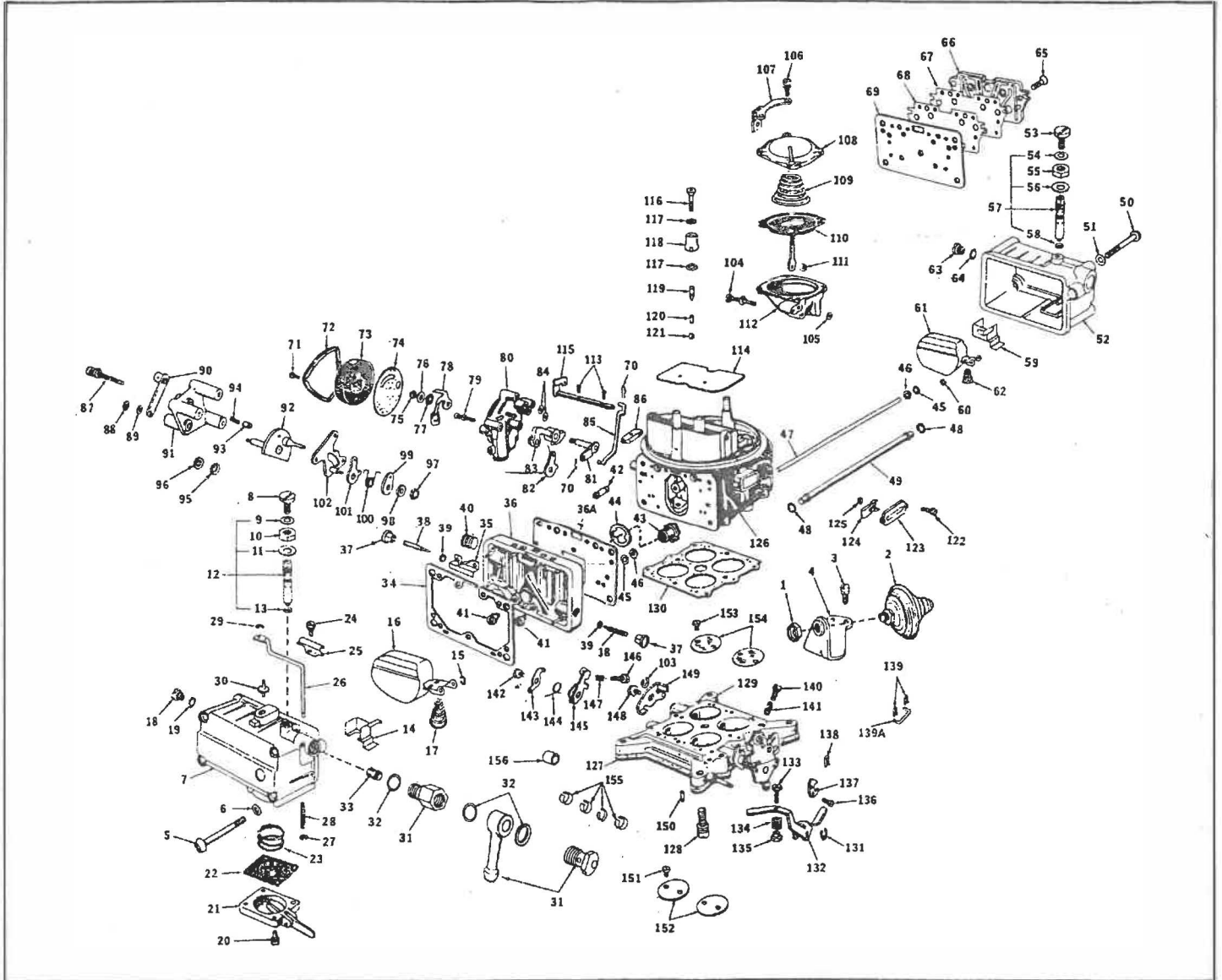


instruction sheet **Holley Carburetor Model 4160**

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.

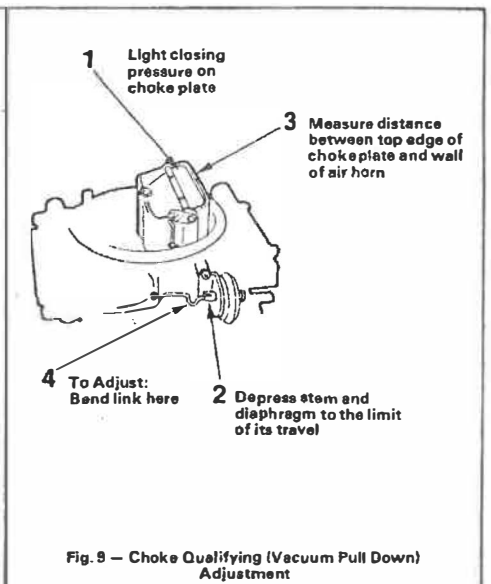
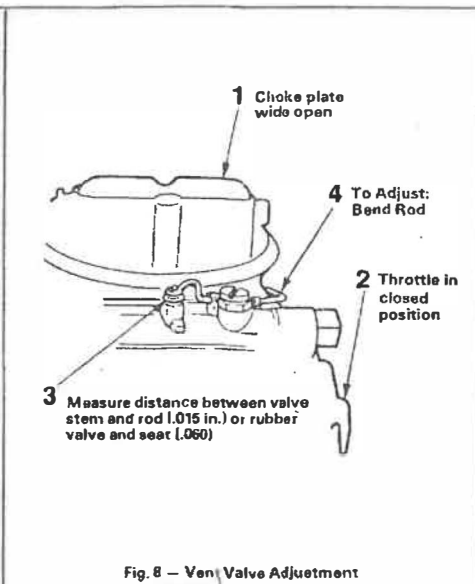
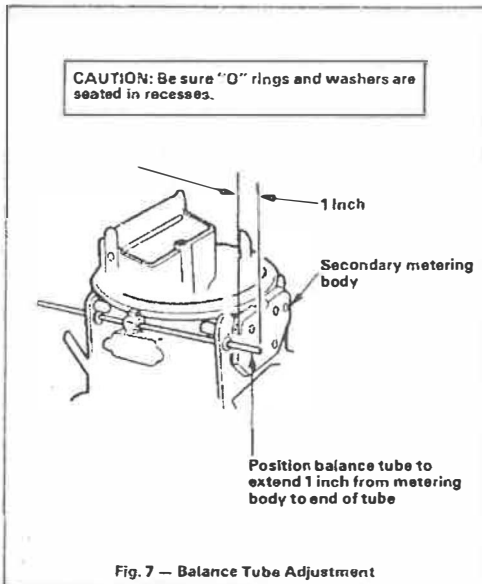
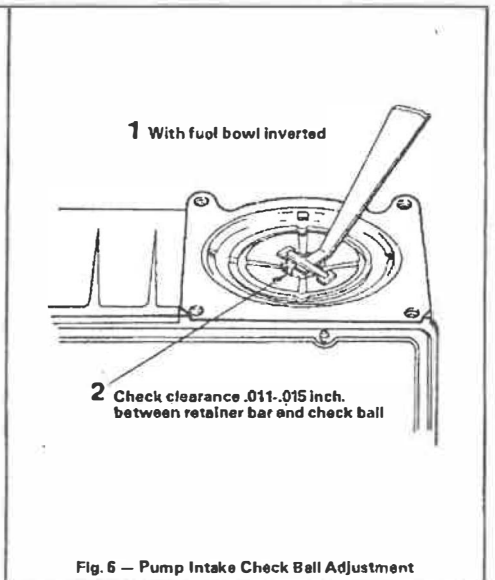
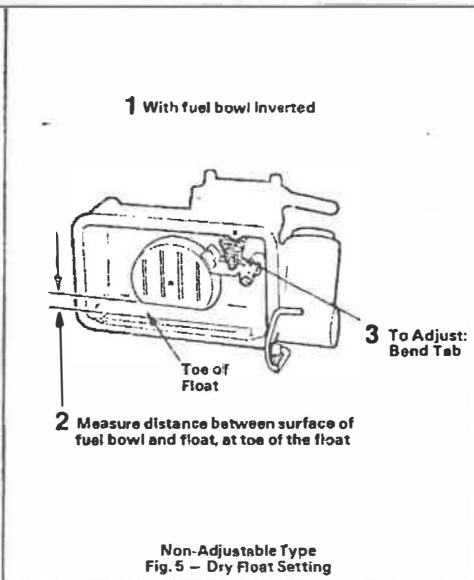
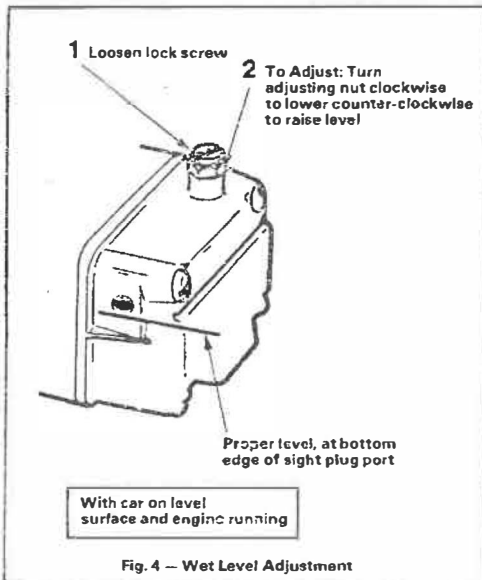
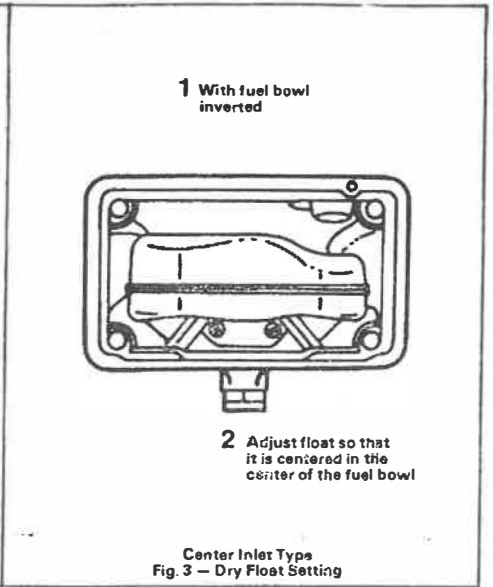
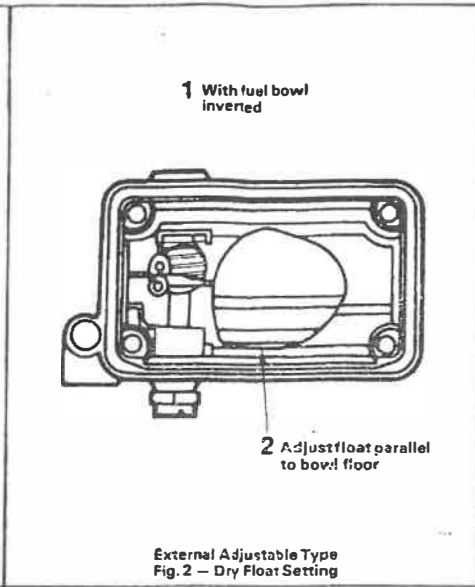
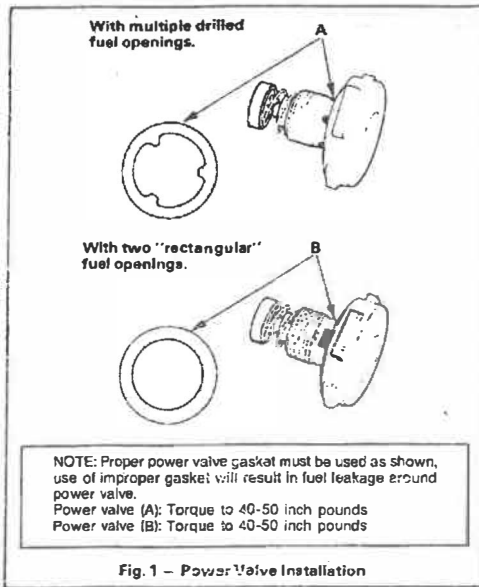


NOMENCLATURE

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

Nomenclature continued on next page

CARBURETOR ADJUSTMENTS



- REF. NO.
54. Fuel valve seat lock screw gasket sec.
 55. Fuel valve seat adjusting nut sec.
 56. Fuel valve seat adjusting nut gasket secondary
 57. Fuel inlet valve & seat assembly secondary
 58. Fuel valve seat "O" ring seal secondary
 59. Baffle plate secondary
 60. Float retainer
 61. Float assembly secondary
 62. Float spring secondary
 63. Fuel level check plug
 64. Fuel level check plug gasket
 65. Secondary metering body screw
 66. Secondary metering body
 67. Secondary metering body plate gasket
 68. Secondary metering body plate
 69. Secondary metering body gasket
 70. Choke rod retainer
 71. Therm. housing clamp screw
 72. Therm. housing clamp
 73. Therm. housing assembly
 74. Therm. housing gasket
 75. Therm. shaft nut
 76. Therm. shaft nut lockwasher
 77. Therm. lever spacer
 78. Therm. lever, link and piston assy.
 79. Choke housing screw & lockwasher
 80. Choke housing assy.
 81. Choke housing shaft & lever assy.
 82. Choke therm. lever
 83. Fast idle cam assy.
 84. Choke housing gasket
 85. Choke rod
 86. Choke rod seal
 87. Fast idle cam plate screw & lockwasher
 88. Choke control lever nut
 89. Choke control lever nut lockwasher
 90. Choke lever & swivel assembly
 91. Fast idle cam plate
 92. Fast idle cam & shaft assembly
 93. Fast idle cam plunger
 94. Fast idle cam plunger spring
 95. Choke oper. lever spring washer
 96. Choke oper. lever washer
 97. Back up plate stud nut
 98. Back up plate stud nut lockwasher
 99. Choke spring washer
 100. Choke spring
 101. Choke rod lever & bushing assy.
 102. Back up plate & stud assembly
 103. Sec. diaphragm retainer
 104. Diaphragm housing screw & lockwasher

- REF. NO.
105. Secondary diaphragm housing gasket
 106. Sec. housing cover screw & lockwasher
 107. Choke control wire bracket
 108. Sec. housing cover
 109. Sec. diaphragm spring
 110. Sec. diaphragm & rod assembly
 111. Diaphragm housing check ball
 112. Sec. diaphragm housing
 113. Choke plate screw
 114. Choke plate
 115. Choke shaft assy.
 116. Pump discharge nozzle screw
 117. Pump discharge nozzle screw gasket
 118. Pump discharge nozzle
 119. Pump discharge needle
 120. Pump discharge ballweight
 121. Pump discharge check ball
 122. H.I.C. cover screw
 123. H.I.C. cover
 124. Hit idle compensator assembly
 125. H.I.C. seal
 126. Main body assy.
 127. Flange gasket
 128. Throttle body screw & lockwasher
 129. Throttle body
 130. Throttle body gasket
 131. Pump operating lever retainer
 132. Pump operating lever
 133. Pump lever adj. screw
 134. Pump lever adj. screw spring
 135. Pump lever adj. screw fitting
 136. Pump cam lock screw
 137. Pump cam
 138. Throttle connector pin retainer
 139. Throttle connector cotter pin
 140. Throttle stop screw
 141. Throttle stop screw spring
 142. Fast idle cam lever screw & lockwasher
 143. Fast idle pick up lever
 144. Fast idle cam lever spring
 145. Fast idle cam lever
 146. Fast idle cam lever adjusting screw
 147. Fast idle cam lever screw spring
 148. Diaphragm lever assy. screw & lockwasher
 149. Diaphragm lever assy.
 150. Diaphragm lever adjusting screw
 151. Throttle plate screw primary
 152. Throttle plate primary
 153. Throttle plate screw secondary
 154. Throttle plate secondary
 155. Throttle shaft bearing (ribbon) pri. & sec.
 156. Throttle shaft bearing (solid) primary

(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.)

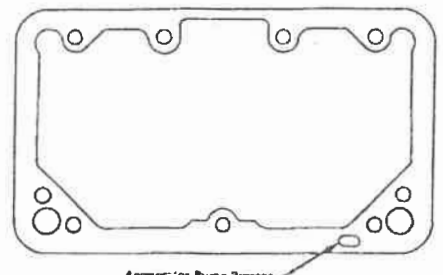
REASSEMBLY

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.

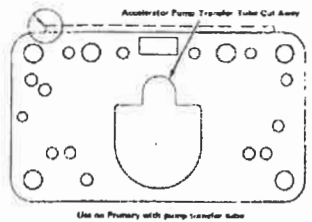
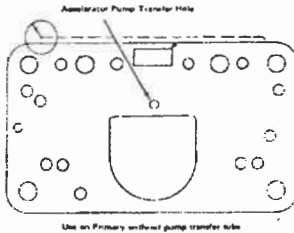
SPECIAL INSTRUCTIONS

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

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.



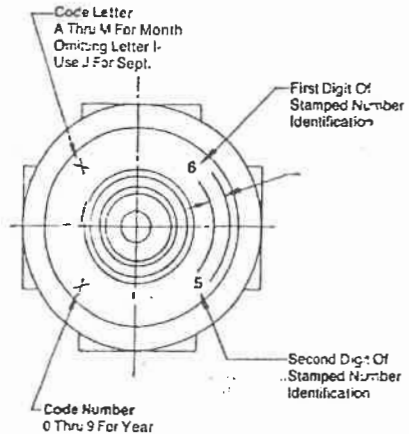
Some 4160 models use primary metering body gaskets with additional stock in this area. Applications using this gasket have the top bead or lip of the metering body removed.

POWER VALVE IDENTIFICATION

Example: Power Valve Assembly

25R591-65

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



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.

CARBURETOR ADJUSTMENTS

