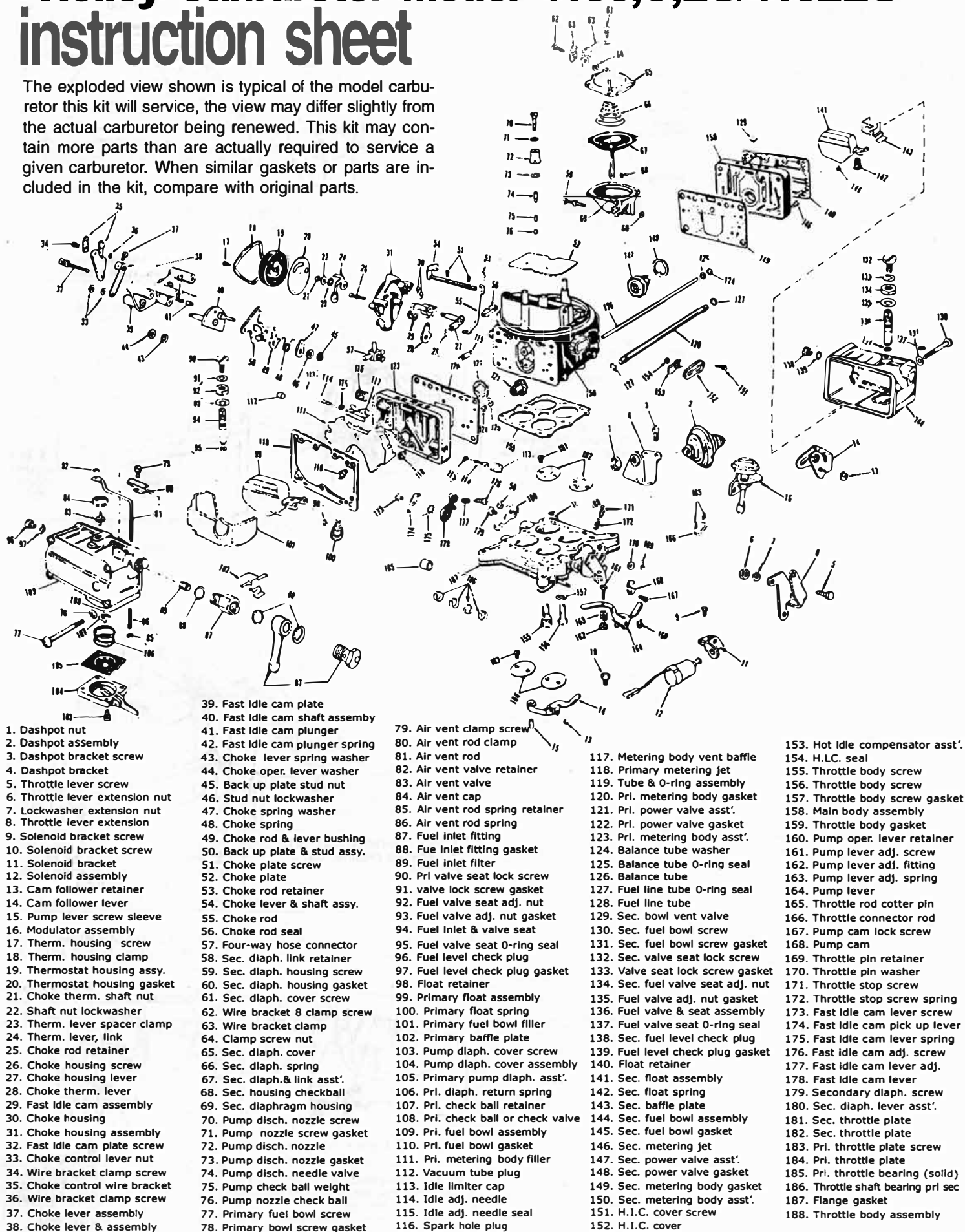


Holley Carburetor Model 4150,C,EG/4152EG 50-794

instruction sheet

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.



1. Dashpot nut
2. Dashpot assembly
3. Dashpot bracket screw
4. Dashpot bracket
5. Throttle lever 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 lever screw sleeve
16. Modulator assembly
17. Therm. housing 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 clamp
24. Therm. lever, link
25. Choke rod retainer
26. Choke housing screw
27. Choke housing lever
28. Choke therm. lever
29. Fast Idle cam assembly
30. Choke housing
31. Choke housing assembly
32. Fast Idle cam plate screw
33. Choke control lever nut
34. Wire bracket clamp screw
35. Choke control wire bracket
36. Wire bracket clamp screw
37. Choke lever assembly
38. Choke lever & 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 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
50. Back up plate & stud assy.
51. Choke plate screw
52. Choke plate
53. Choke rod retainer
54. Choke lever & shaft assy.
55. Choke rod
56. Choke rod seal
57. Four-way hose connector
58. Sec. diaph. link retainer
59. Sec. diaph. housing screw
60. Sec. diaph. housing gasket
61. Sec. diaph. cover screw
62. Wire bracket 8 clamp screw
63. Wire bracket clamp
64. Clamp screw nut
65. Sec. diaph. cover
66. Sec. diaph. spring
67. Sec. diaph. & link asst'.
68. Sec. housing checkball
69. Sec. diaphragm housing
70. Pump disch. nozzle screw
71. Pump nozzle screw gasket
72. Pump disch. nozzle
73. Pump disch. nozzle gasket
74. Pump disch. needle valve
75. Pump check ball weight
76. Pump nozzle check ball
77. Primary fuel bowl screw
78. Primary bowl screw gasket

79. Air vent clamp screw
80. Air vent rod clamp
81. Air vent rod
82. Air vent valve retainer
83. Air vent valve
84. Air vent cap
85. Air vent rod spring retainer
86. Air vent rod spring
87. Fuel inlet fitting
88. Fuel inlet fitting gasket
89. Fuel inlet filter
90. Pri. valve seat lock screw
91. valve lock screw gasket
92. Fuel valve seat adj. nut
93. Fuel valve adj. nut gasket
94. Fuel inlet & valve seat
95. Fuel valve seat O-ring seal
96. Fuel level check plug
97. Fuel level check plug gasket
98. Float retainer
99. Primary float assembly
100. Primary float spring
101. Primary fuel bowl filler
102. Primary baffle plate
103. Pump diaph. cover screw
104. Pump diaph. cover assembly
105. Primary pump diaph. asst'.
106. Pri. diaph. return spring
107. Pri. check ball retainer
108. Pri. check ball or check valve
109. Pri. fuel bowl assembly
110. Pri. fuel bowl gasket
111. Pri. metering body filler
112. Vacuum tube plug
113. Idle limiter cap
114. Idle adj. needle
115. Idle adj. needle seal
116. Spark hole plug

117. Metering body vent baffle
118. Primary metering jet
119. Tube & O-ring assembly
120. Pri. metering body gasket
121. Pri. power valve asst'.
122. Pri. power valve gasket
123. Pri. metering body asst'.
124. Balance tube washer
125. Balance tube O-ring seal
126. Balance tube
127. Fuel line tube O-ring seal
128. Fuel line tube
129. Sec. bowl vent valve
130. Sec. fuel bowl screw
131. Sec. fuel bowl screw gasket
132. Sec. valve seat lock screw
133. Valve seat lock screw gasket
134. Sec. fuel valve seat adj. nut
135. Fuel valve adj. nut gasket
136. Fuel valve & seat assembly
137. Fuel valve seat O-ring seal
138. Sec. fuel level check plug
139. Fuel level check plug gasket
140. Float retainer
141. Sec. float assembly
142. Sec. float spring
143. Sec. baffle plate
144. Sec. fuel bowl assembly
145. Sec. fuel bowl gasket
146. Sec. metering jet
147. Sec. power valve asst'.
148. Sec. power valve gasket
149. Sec. metering body gasket
150. Sec. metering body asst'.
151. H.I.C. cover screw
152. H.I.C. cover

153. Hot Idle compensator asst'.
154. H.L.C. seal
155. Throttle body screw
156. Throttle body screw
157. Throttle body screw gasket
158. Main body assembly
159. Throttle body gasket
160. Pump oper. lever retainer
161. Pump lever adj. screw
162. Pump lever adj. fitting
163. Pump lever adj. spring
164. Pump lever
165. Throttle rod cotter pin
166. Throttle connector rod
167. Pump cam lock screw
168. Pump cam
169. Throttle pin retainer
170. Throttle pin washer
171. Throttle stop screw
172. Throttle stop screw spring
173. Fast Idle cam lever screw
174. Fast Idle cam pick up lever
175. Fast Idle cam lever spring
176. Fast Idle cam adj. screw
177. Fast Idle cam lever adj.
178. Fast Idle cam lever
179. Secondary diaph. screw
180. Sec. diaph. lever asst'.
181. Sec. throttle plate
182. Sec. throttle plate
183. Pri. throttle plate screw
184. Pri. throttle plate
185. Pri. throttle bearing (solid)
186. Throttle shaft bearing pri sec
187. Flange gasket
188. Throttle body assembly

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.

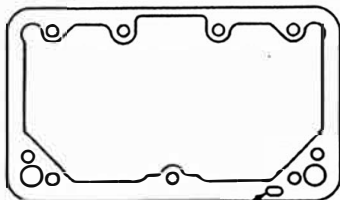
SPECIAL INSTRUCTIONS

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

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

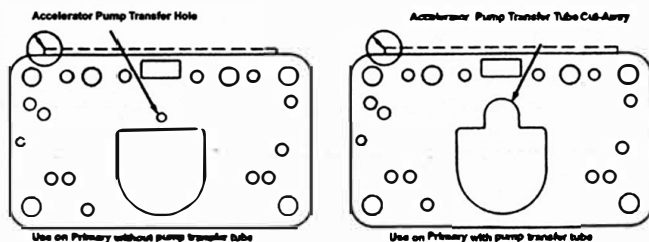
CHOKE PLATE SCREW - Choke plate screws are staked to prevent loosening. To avoid breaking or stripping the threads in the choke shaft, lightly file off the staking. Choke plates screws should be re-staked after tightening to prevent loosening.

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.



Accelerator Pump Passage

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

POWER VALVE IDENTIFICATION

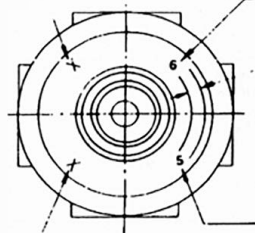
Example: Power Valve Assembly

25R59-65

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

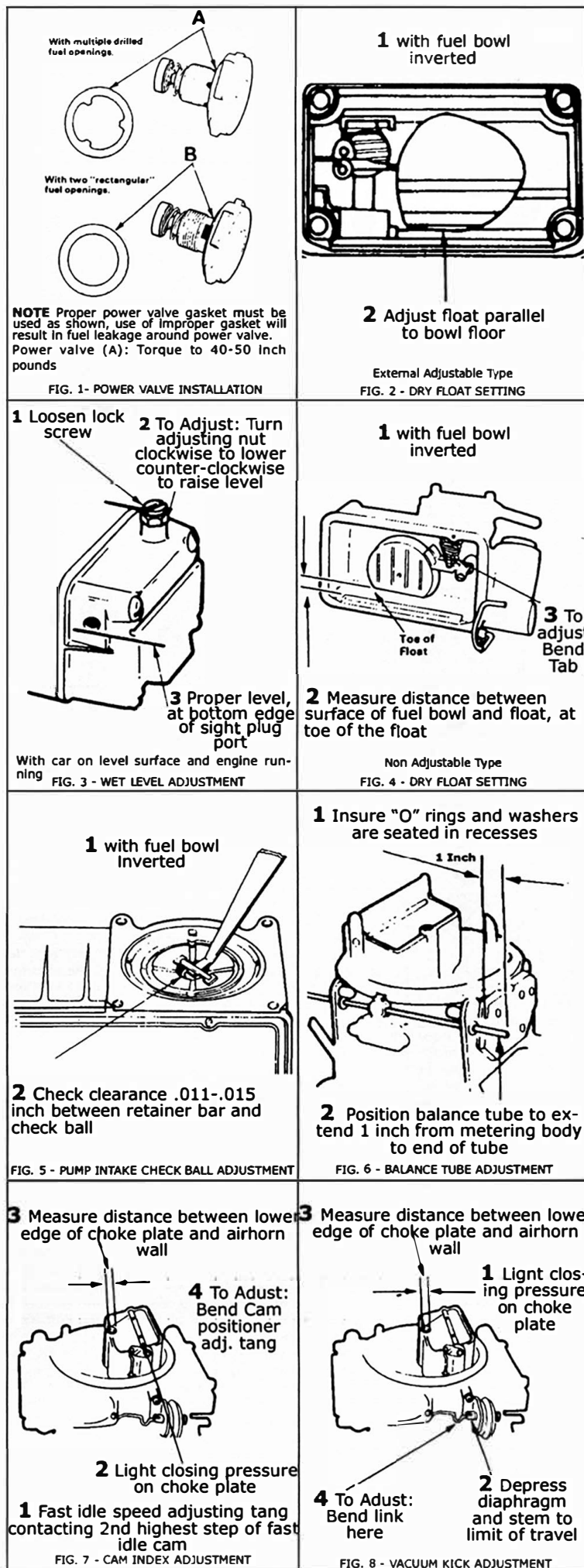
Code Letter
A Thru M For Month Omitting
Letter I - Use J For Sept.

First Digit
Of Stamped Number Identification



Code Number
0 thru 9 for Year

Second Digit
Of Stamped Number Identification



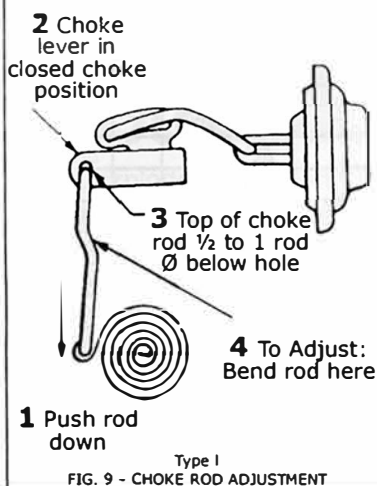


FIG. 9 - CHOKE ROD ADJUSTMENT

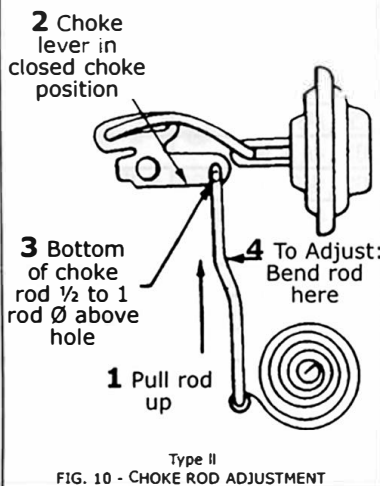


FIG. 10 - CHOKE ROD ADJUSTMENT

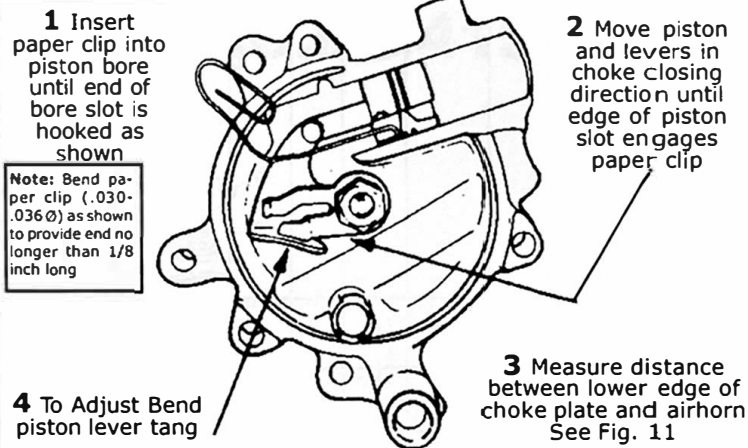


FIG. 15 - CHOKE QUALIFYING (INTEGRAL CHOKE) ADJUSTMENT

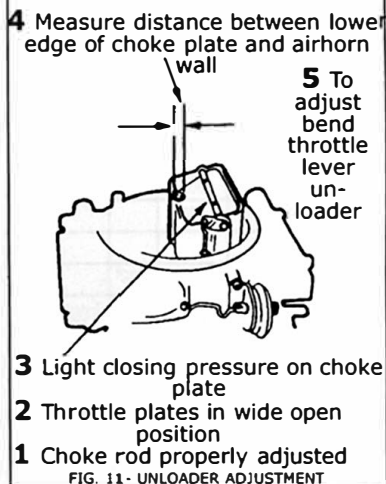


FIG. 11 - UNLOADER ADJUSTMENT

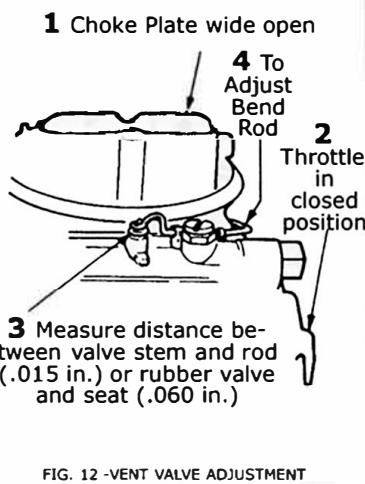


FIG. 12 - VENT VALVE ADJUSTMENT

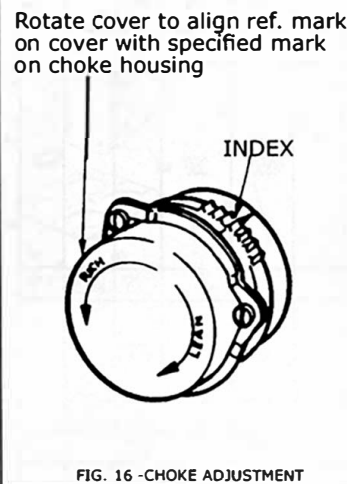


FIG. 16 - CHOKE ADJUSTMENT

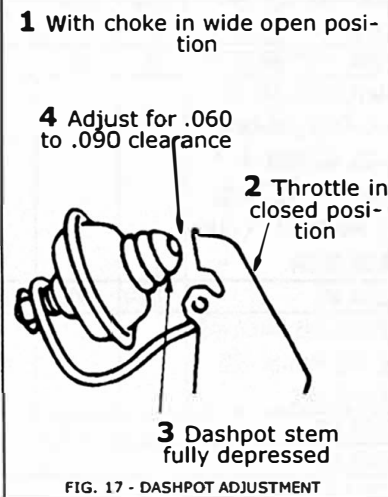


FIG. 17 - DASHPOT ADJUSTMENT

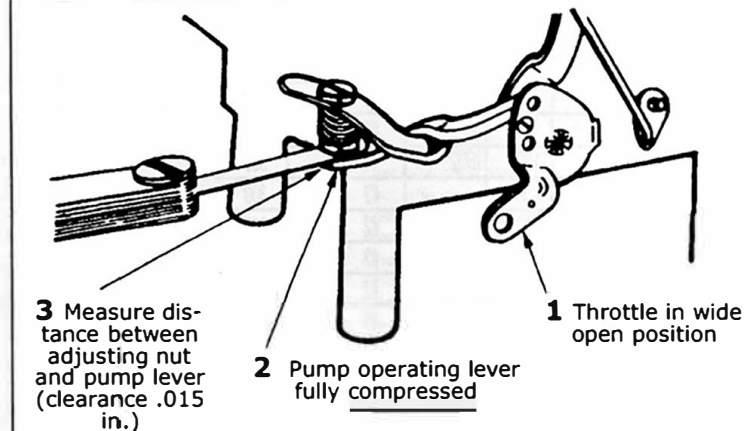


FIG. 13 - PUMP OVERRIDE ADJUSTMENT

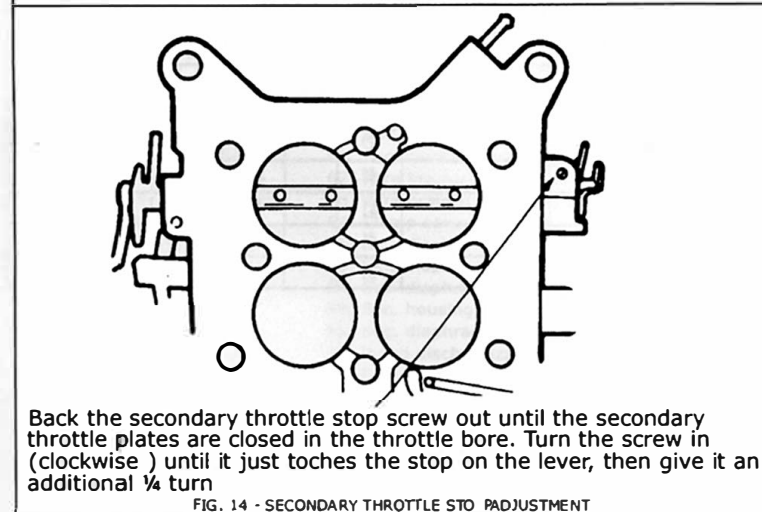


FIG. 14 - SECONDARY THROTTLE STOP ADJUSTMENT

SETTINGS/SPECIFICATIONS

Carburetor Number	Primary Dry Float Adj.	Secondary Dry Float Adj.	Pump Cam Position	Cam Index	Vacuum Kick	Vacuum Unloader	Bowl Vent	Auto Choke	Dash Pot
R1272A, -1A, R1448A	13/16"	3/4"	#1				.060"	Index	
R1273A, -1A, -2A, -2AAS, R1483A	13/16"	3/4"	#1			.180"	.060"	Index	.075"
R1312A, -1A, R1748A, -1A, R1957A, -1A, R1958A, -1A	13/16"	3/4"	#1			.180"	.060"	1NL	
R1312-2A, -3A, -4A			#1			.180"	.060"	1NL	.105"
R1405A, R1551A, R1619A, -1A	13/16"	3/4"	#1				.060"	2NR	.075"
R1426A, R1736A	13/16"	3/4"	#1				.060"	2NR	
R1427A, R1616A, R1737A, -1A, R1738A, -1A	13/16"	3/4"	#1				.060"	2NR	.075"
R1550A	13/16"	3/4"	#1				.060"	1NR	
R1740A	13/16"	1/2"	#1				.060"	1NR	.075"
R1740-1A			#1				.060"	1NR	.075"
R1748-2A			#1			.180"	.060"	1NL	
R2464A			#1			.180"	.060"	1NL	.105"
R2668A, AAS, R2687A, R2818-1A, R2855A, R2919A, R2926A, R4118AAS			#1					Index	
R2818A, AAS			#1					Index	
R2927A, R4223AAS, R4237A, -1A, -2A, R4318A, -1A, R4455AAS, R4543A, R4572A, -1A, -1AAS, -2A, R4578AAS, R4776-1AAA, R4777-1AAA, R4778-1AAA, -2AAA, R4779-									

