

# FUEL SYSTEM

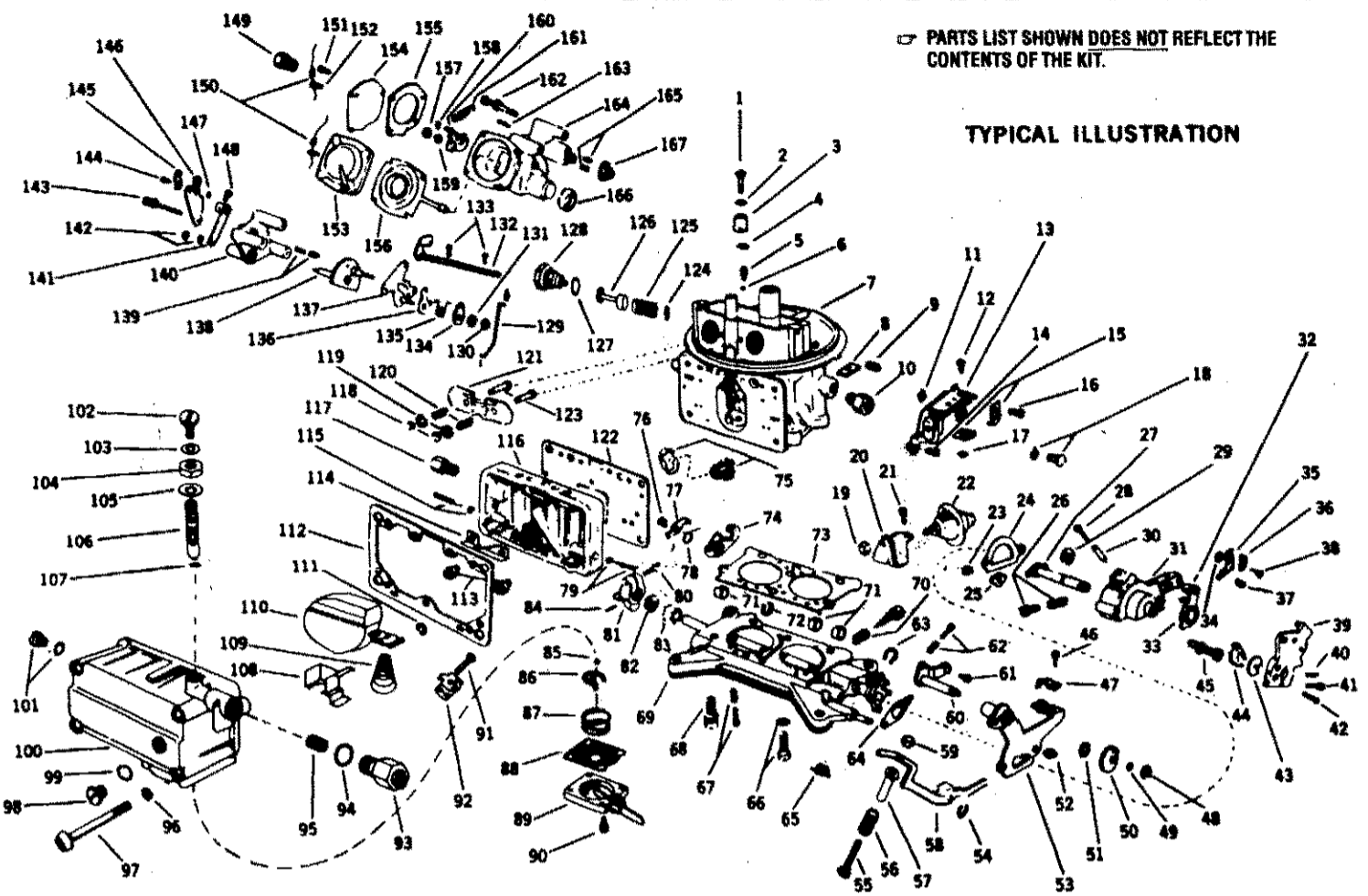
## SERVICE INSTRUCTION WORKSHEET

SERVICE/INSTRUCTION  
WORK SHEET  
TO REPAIR HOLLEY CARBURETORS  
Models 2300, 2300G, 2300MG

GF3493-1

☐ PARTS LIST SHOWN DOES NOT REFLECT THE CONTENTS OF THE KIT.

TYPICAL ILLUSTRATION



### PARTS LIST

#### HOW TO USE THIS INSTRUCTION SHEET

1. This worksheet has been designed to simplify your use of the REPAIR Kit to tune-up a carburetor. It is set up so that you can follow each step by checking it off as you perform it. If you are interrupted any time during your work, you will know where you are when you get back to it.

2. The steps of disassembly are shown in numerical order. Parts are illustrated at right and are identified in numerical sequence to make it easy to find. Thus the first part to be removed is at the top of this list and can be found in the exploded drawing by its number designation. To reassemble proceed from the bottom of the list and check off operations in the right hand column.

3. The items contained in this kit are sufficient to replace the most frequently worn parts in the carburetor. The list of parts shown on this sheet DOES NOT reflect the contents of the kit.

4. This instruction sheet is applicable to all carburetors of this type. Since the illustration (exploded view) is typical and minor variations occur between the different models, procedures will be essentially as described and differences will be easily recognized. This kit may contain extra parts which are applicable to other carburetors in this group. Substitute identical replacement parts for original worn parts found on carburetor.

5. Cover manifold hole while the carburetor is off to prevent dust and dirt from entering.

6. Soak throttle body, air horn assembly and carburetor body in carburetor cleaner for about ten minutes. Remove carbon and all loose particles using a stiff bristle brush.

7. CAUTION: Do not use any abrasives to clean carburetor parts. Items made of rubber, leather, nylon or plastic are not to be soaked in carburetor cleaner.

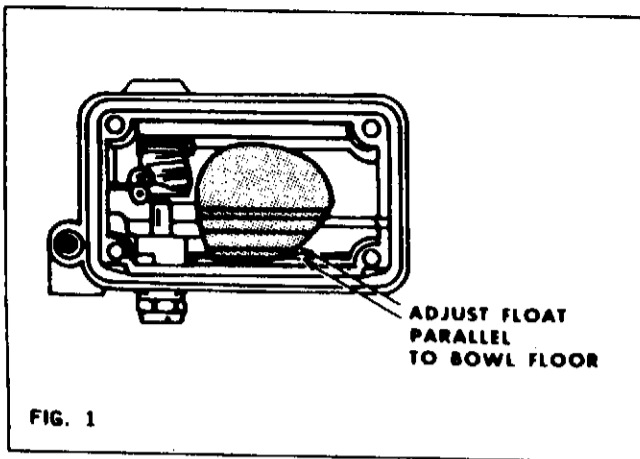
8. Put small parts in strainer and allow to soak in a carburetor cleaner. Dry and place on paper towel.

9. Remove parts from solvent, blow out all passages and jets with air gun.

1	Screw-Pump Dis. Nozzle
2	Gasket-Pump Dis. Nozzle
3	Nozzle-Pump Discharge
4	Gasket-Pump Dis. Nozzle
5	Needle Valve-Pump Dis.
6	Check Ball-Pump Dis.
7	Main Body & Plugs Assy.
8	Seal-Choke Rod
9	Piston Spring Screw-Anti-Backfire
10	Fitting
11	Nut-Choke Brkt. & Lev. Screw
12	Screw-Choke Brkt. & Lev. Clamp
13	Choke & Hand Cont. Lev. & Brkt. Assy.
14	Screw-Choke Cont. Lev. Swivel
15	Clamp-Choke Brkt. & Lev. (2)
16	Screw-Choke Brkt. & Lev. Clamp
17	Nut-Choke Brkt. & Lev. Screw
18	Brkt. Screw & Washer
19	Dashpot Nut
20	Dashpot Brkt.
21	Screw & L.W.-Dashpot Brkt.
22	Dashpot Assembly
23	Scr. & L.W.-Fast Idle Cam Lev.
24	Gasket-Shaft Hsg. Throt. Oper.
25	Driver-Throt. Shaft
26	Screw & Spring-Throt. Stop
27	Driver Assy.-Throt. Oper.
28	Adj. Screw-Fast Idle Pin
29	Shaft Retainer
30	Fast Idle Pin
31	Shaft Hsg. Assy.
32	Pick-up Lev. & Swivel
33	Swivel Scr.-Choke & Lev.
34	Nut-Choke Brkt. & Lev. Scr.
35	Bracket-Pick-up Lev.
36	Clamp-Choke Brkt. & Lev.
37	Screw & L.W.
38	Screw-Choke Brkt. & Lev. Clamp
39	Throttle Lever
40	Pin-Gov. & Throt. Lev.
41	Screw-Throt. Lev.
42	Lock Scr. & L.W.-Pump Cam
43	Guide-Pump Oper. Lev.
44	Pump Cam
45	Screw-Shaft Hsg. Assy.
46	Screw-Choke Brkt. & Lev. Clamp
47	Clamp-Choke Brkt. & Lev.
48	Nut-Fast Idle Cam
49	Washer-Fast Idle Cam
50	Fast Idle Cam
51	Washer-Choke Lev. Spring
52	Nut-Choke Brkt. & Lev.
53	Back-up Plate & Bearing
54	Retainer-Pump Oper. Lev.
55	Screw-Lev. Adj.
56	Spring (For 55)

57	Guide-Lev. Scr.
58	Pump Oper. Lever
59	Scr. Nut-Vent Pick-up
60	Shaft & Lev. Assy.
61	Scr.-Choke Cont. Lev. Swivel
62	Scr. & Spring-Throt. Stop
63	Small Retainer-Throt. Shaft
64	Gasket-Throt. Shaft
65	Throt. Return Spring
66	Scr. & Gasket-Throt. Body
67	Scr. & Spring-Fast Idle Cam Lev.
68	Scr. & L.W.-Throt. Body
69	Throt. Body & Shaft Assy.
70	Needle & Spring-Idle Adj.
71	Bushing Throt. Shaft (3)
72	Bushing-Throt. Shaft
73	Gasket-Throt. Body
74	Lever-Fast Idle Cam
75	Assy. & Gasket-Power Valve
76	Scr. & L.W.-Fast Idle Cam Lev.
77	Pick-up Lev.-Fast Idle
78	Spring-Fast Idle Cam Lev.
79	Needle & Seal-Idle Adj.
80	Screw-Gov. Throt. Lev.
81	Lar. & Ball Assy.-Gov. Throt.
82	Large Retainer-Throt. Shaft
83	Bearing-Throt. Shaft
84	Pin-Gov. & Throt. Lev.
85	Check Ball-Pump Inlet
86	Retainer Spring-Pump Check Ball
87	Spring-Diaphragm Return
88	Pump Diaphragm Assy.
89	Fuel Pump Cover Assy.
90	Scr. & L.W.-Fuel Pump Cov. Assy.
91	Float Lev. Shaft
92	Float Hinge Adapter
93	Fitting-Fuel Inlet
94	Gasket-Fitting
95	Filter Screen Assy.
96	Gasket-Fuel Bowl Scr.
97	Scr.-Fuel Bowl to Main Body
98	Plug-Float Adj.
99	Gasket-Float Adj. Plug
100	Fuel Bowl & Plugs Assy.
101	Plug & Gasket-Fuel Lev. Check
102	Lock Scr.-Fuel Valve Seat
103	Gasket-(For 102)
104	Nut-Fuel Valve Seat Adj.
105	Gasket-(For 104)
106	Valve & Seal Assy.-Fuel Inlet
107	Gasket-Fuel Valve Seat
108	Baffle Plate
109	Float Spring
110	Float & Hinge Assy.
111	Float Retainer
112	Gasket-Fuel Bowl

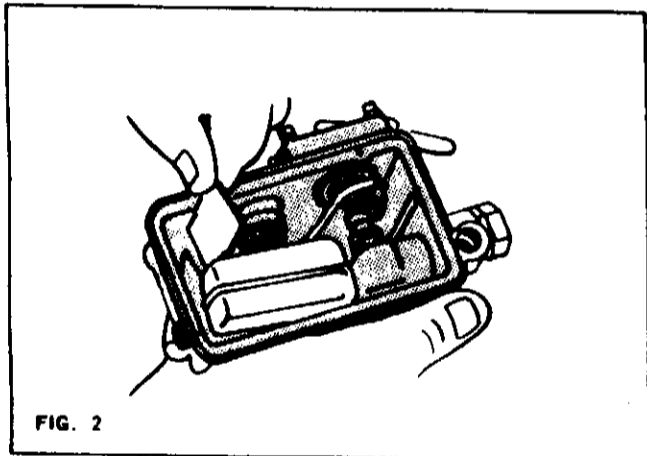
113	Main Jet
114	Baffle-Metering Body
115	Needle & Seal-Idle Adj.
116	Main Metering Body & Plugs Assy.
117	Spark Fitting
118	Retainer-Valve Plate (2)
119	Cover (For 118) (2)
120	Valve Spring (2)
121	Valve Plate
122	Gasket-Metering Body
123	Valve Stem
124	Spacer (For 125)
125	Spring (For 126)
126	Anti-Backfire Piston
127	Gasket (For 128)
128	Anti-Backfire Plug
129	Choke Rod & Retainers
130	Nut-Back-up Plate
131	Lock Washer (For 130)
132	Choke Shaft Assy.
133	Screws-Choke Plate (2)
134	Washer (For 135)
135	Spring-Choke Shaft
136	Lev. & Bushing Assy.-Choke Rod
137	Back-up Plate & Bearing Assy.
138	Fast Idle Cam
139	Spring & Plunger (For 138)
140	Plate (For 138)
141	Choke Lev. & Swivel Assy.
142	Nut & L.W. (For 138)
143	Scr. & L.W. (For 140)
144	Scr.-Choke Brkt. & Lev. Clamp
145	Clamp-Choke Brkt. & Lev.
146	Bracket-Choke Cont.
147	Nut-Choke Brkt. & Lev. Scr.
148	Screw-Choke Lev.
149	Fitting
150	Seal-Gov. Cover (2)
151	Scr. & L.W. Gov. Cover Assy.
152	Scr. & L.W.-Gov. Cover Assy.
153	Scr. & L.W.-Gov. Diaph. Cov. Assy.
154	Gov. Body Cover
155	Gasket (For 154)
156	Gov. Diaph. Assy. & Cover
157	Nut-Gov. Lev.
158	Retainer-Gov. Diaph.
159	Lock Washer (For 157)
160	Gov. Lev. Assy.
161	Spring-Gov.
162	Screw-Gov. Hsg. Assy.
163	Pin-Gov. Spring
164	Gov. Hsg. & Plug Assy.
165	Gov. By-Pass Jet (2)
166	Gov. Body Seal
167	Gasket-Gov. to Main Body



**FLOAT SETTING**

The following adjustment procedure applies to carburetors with fuel bowls which have adjustable needles and seats.

With float bowl inverted, adjust float parallel to bowl floor. The same setting is necessary for carburetors incorporating brass floats to obtain a dry setting.

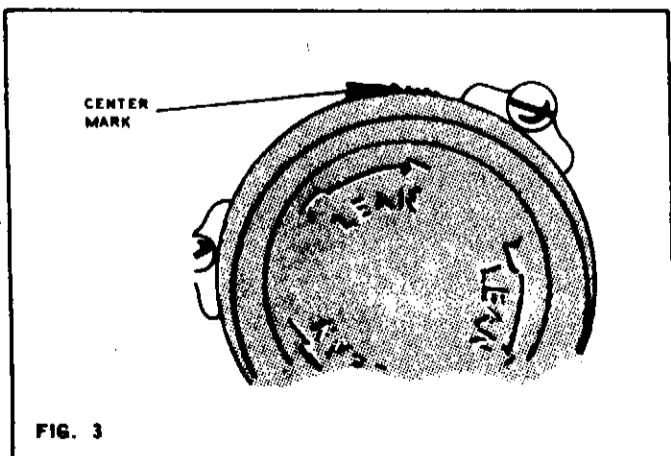


**FLOAT SETTING**

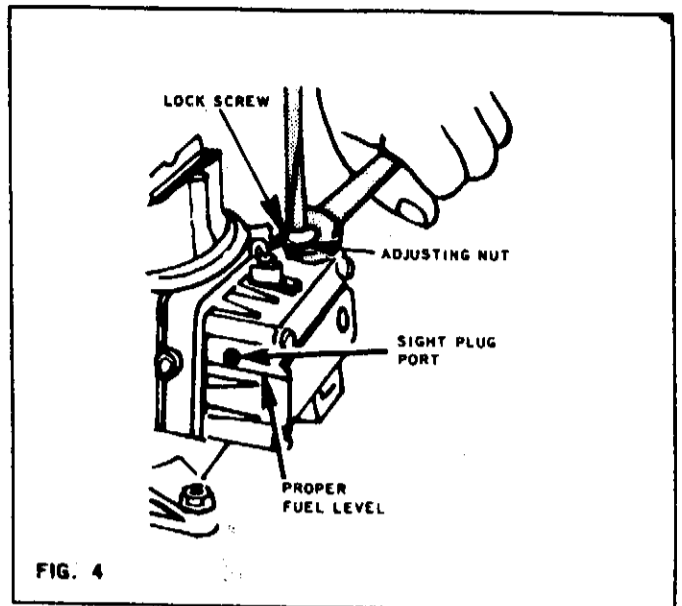
The following adjustment procedure applies to carburetors with non-adjustable needles and seats.

Invert carburetor fuel bowl and install gauge as shown. Bend float lever tab to bring float setting within limits.

NOTE: Where Gauge CT111-87 is specified, measure distance by placing gauge near outer end of float (opposite end of hinge) between bowl floor and bottom of float. For correct clearance see Specification Chart. To change setting, bend float tab as required.



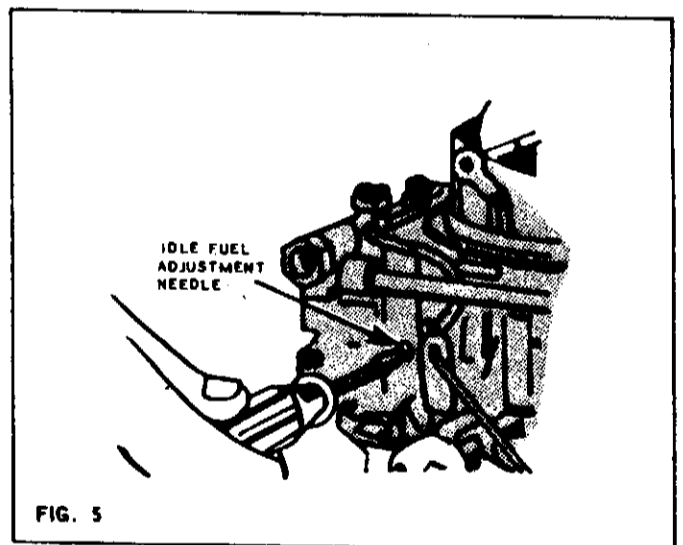
With choke set on center mark, maximum permissible adjustment is two notches either rich or lean. Use the same procedure for divorced choke applications.



**WET LEVEL ADJUSTMENT AFTER CARBURETOR IS INSTALLED**

With the car on a level surface and engine running, the fuel level should be on line with the threads at bottom of sight plug port. ( $\pm 1/32$ " tolerance.)

Loosen the lock screw and turn the adjusting nut clockwise to lower the fuel level; turn counterclockwise to raise the fuel level. Retighten lock screw while holding adjusting nut.



**ADJUSTING THE IDLE**

After seating the idle adjusting needle lightly, back off one full turn. After engine has been brought to operating temperature, readjust to proper idle speed and mixture. Note that some applications will have the idle fuel adjustment needle located in the throttle body.

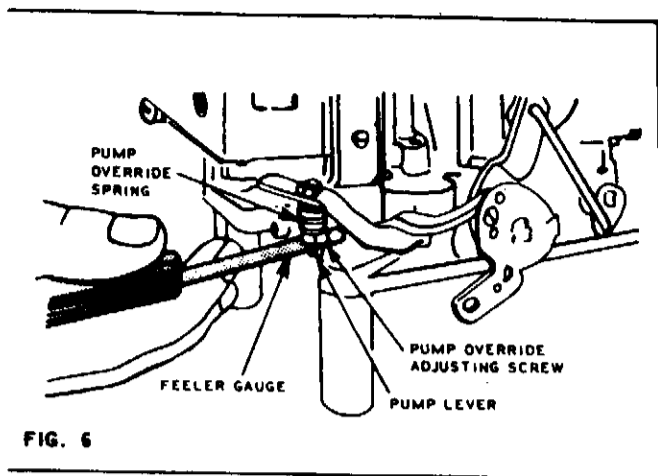


FIG. 6

**PUMP ADJUSTMENT:**

- (1) Check the pump-override spring adjustment by holding the throttle in the wide open position and the pump operating lever held in a fully compressed position. The clearance between the adjusting nut and arm of the pump lever should be .015.
- (2) After adjusting, move the throttle lever from a closed toward open position. Movement at the throttle lever should be noticed at the pump operating lever, thus indicating correct tip-in.

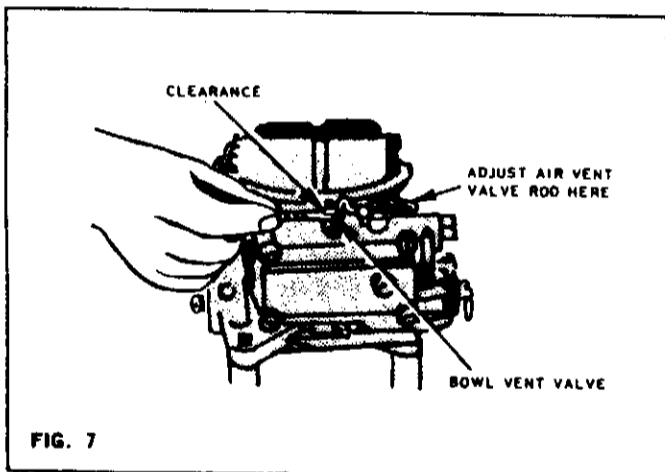


FIG. 7

**VENT VALVE ADJUSTMENT**

- (1) Adjust air vent rod and valve as follows: Check the clearance from valve to seat with a drill with choke open and throttles closed. The clearance must be .050 to .070.
- (2) The clearance of the air vent valve on early production low inlet fuel bowl models with a different vent rod is corrected by bending the end of the pump operating lever. On later models, bend the rod as shown in Figure 7.

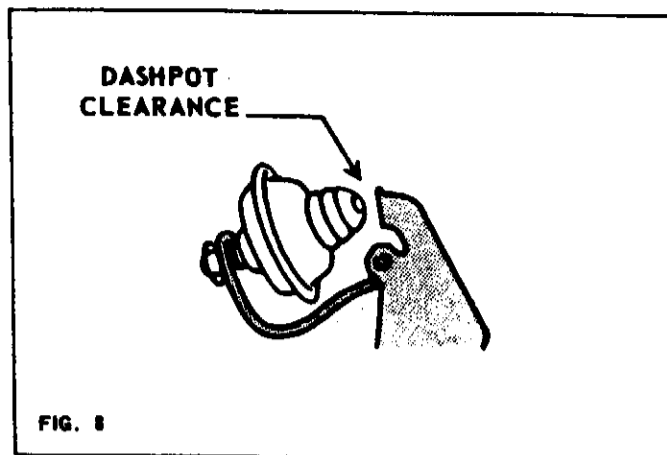


FIG. 8

With choke plate open and throttle plates in closed position with the dashpot fully depressed, the clearance should be .060 to .090.

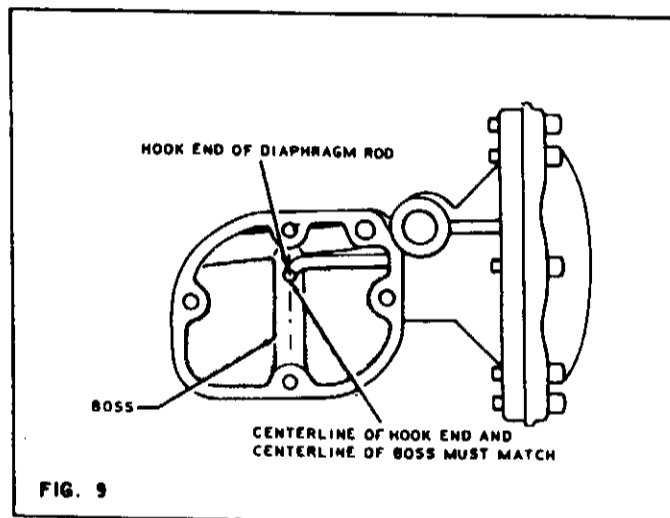


FIG. 9

**INSTALLING GOVERNOR DIAPHRAGM**

Governor Type Only: When reassembling the governor assembly, place the diaphragm and diaphragm cover in position. Insert cover screws and lock-washers. Turn the screws in until the flanges almost meet, but do not tighten. Stretch and hold diaphragm rod by hand until center line of hook end of rod and center line of the boss match. Then tighten screws evenly while maintaining diaphragm stretched in this position.

**AFTER INSTALLING THE CARBURETOR ON THE VEHICLE**

Depress and release throttle to make sure of complete throttle plate opening and closing.

**SPECIFICATION CHART**

To Repair Carburetors		Float Adjustment		Idle Adjustment					
Ford No.	Holley No.	Gauge	Distance (Inches)	Turns Open	Engine R.P.M. at Idle Speed				
EDB-9510L,Y,AC	R1281A,1A,2A	CT111-87	13/16	1	{ 475-500(S) & O.D.				
5750069	R1281-3A }	CT111-87	3/4	3/4 to 1-3/4	{ 425-450(A) 475-500(S) 450(A)				
5751357	R1281-4A }								
EDB-9510M,Z	R1282A,1A	CT111-87	13/16	1	{ 475-500(S) & O.D.				
EDB-9510AD	R1282-2A	CT111-87	13/16	1 to 1-3/4	{ 425-450(A) 425-450(A)				
5750070	R1282-3A }	CT111-87	3/4	3/4 to 1-3/4	{ 475-500(S) 450(A)				
5751355	R1282-4A }								
ECY-9510A,C	R1371A,1A	CT111-87	13/16	1	{ 475-500(S) & O.D.				
5751766	R1371-2A	CT111-87	13/16	1/4	{ 425-450(A) 475-500				
ECG-9510AS,BE	R1379A,1A	CT111-87	13/16	1	{ 475-500(S) & O.D.				
ECG-9510BG	R1379-2A	CT111-87	13/16	1 to 1-1/2	{ 425-450(A) 475-500(S) 425-450(A) O.D.				
ECG-9510AT	R1380A }	CT111-87	13/16	1	{ 475-500(S) & O.D.				
ECG-9510BF	R1380-1A }								
ECG-9510BH	R1380-2A	CT111-87	13/16	1 to 1-1/2	{ 425-450(A) 475-500(S) 425-450(A)				
EDC-9510C	R1406A }	CT111-87	3/4		{ 475(S) 600(S)†				
5751358	R1406-1A }								
ECY-9510B,D	R1412A,1A }	CT111-87	13/16	1	{ 450(A)* 500(A)†				
ECJ-9510AC,AD	R1486A,1A }								
EDC-9510H	R1552A }	CT111-87	3/4		{ 475(S)* 600(S)†				
5751356	R1552-1A }								
ECY-9510E	R1604A }	CT111-87	13/16	1/4	475-500				
ECW-9510R	R1605A }								
5751765	R1605-1A }								
ECW-9510S	R1606A }								
3025551	R1606-1A }								
5751077	R1769A }								
5751786	R1769-1A }								
5751078	R1770A }								
5751784	R1770-1A }								
5751079	R1771A }								
5751785	R1771-1A }								
5751076	R1772A }								
5751787	R1772-1A }								
5751094	R1779A }								
5751353	R1779-1A }								
5751095	R1780A }								
5751354	R1780-1A }								
B7A-9510F,G						CT111-87	13/16	1	{ 475-500(S) & O.D.
B7A-9510K						CT111-87	3/4	1	{ 425-450(A)
B7A-9510R,S,T,						CT111-87	13/16	1	{ 475-500(S) & O.D.
B7A-9510AA,AB		CT111-87	3/4	1	{ 425-450(A)				
B7A-9510AS		CT111-87	13/16	1	{ 475-500(S) & O.D.				
B7J-9510A,B }									
B7T-9510A,D }		CT111-87	3/4	3/4 to 1-3/4	{ 425-450(A) 475-500(S) & O.D.				
B8A-9510D,G,H }									
B8A-9510R,S }		CT111-87	3/4	3/4 to 1-3/4	{ 475-500(S) & O.D.				
B8C-9510A,D }									
B8J-9510A		CT111-87	3/4	3/4 to 1-3/4	{ 475-500(S) & O.D.				
B8A9LA (B9AE-9510B)	R1974A								
BBT8EA (CITE-9510AB)		CT111-87	3/4	3/4 to 1-3/4	{ 475-500(S) & O.D.				
BNA7EA (B7A-9510B)	R1681A,82A								
CECG-9510A,B		CT111-87	13/16	3/4 to 1-3/4	{ 475-500(S) & O.D.				
EDC-9510E		CT111-87	3/4	3/4 to 1-3/4	{ 475-500(S) & O.D.				
ELY-9510A,B,C,D,E		CT111-87	13/16	3/4 to 1-3/4	{ 475-500(S) & O.D.				
PB8M-9510A		CT111-87	3/4	3/4 to 1-3/4	{ 475-500(S) & O.D.				
PB8M-9510G		CT111-87	3/4	3/4 to 1-3/4	{ 475-500(S) & O.D.				
5750094									
5750353,354									
	R4147A, 1A,1AAS	CT109-83	1/4	1 to 1-1/2	700(S)				
	R4148A	CT109-65	5/16		600(A)				

**FOOTNOTES**

- \* With Hydraulic Valve Lifters.
- † With Solid Valve Lifters.
- A. . . . Automatic.
- O.D. . . . Over Drive.
- S. . . . Standard