

# FUEL SYSTEM

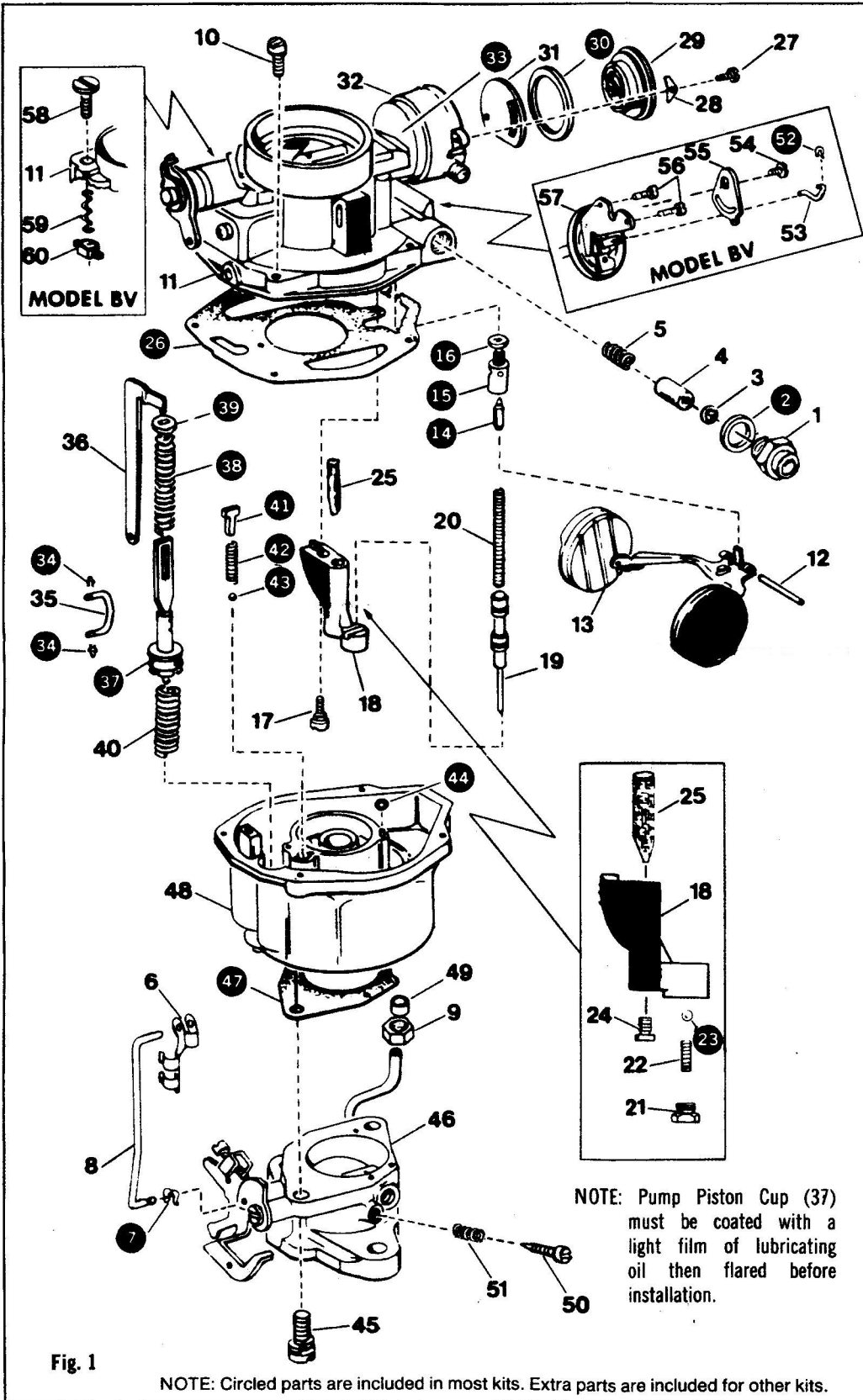
## SERVICE INSTRUCTION WORKSHEET

TO REPAIR

GF3477-3

ROCHESTER CARBURETOR

1 BARREL—Models B, BC, BV



1. Carefully read the text in the following pages to become familiar with the contents of this worksheet before performing carburetor overhaul.
2. The exploded view is typical of the model carburetor this kit will service. The view may differ slightly from the actual carburetor being overhauled.
3. Use the exploded view as a guide. The numerical sequence of the parts list may generally be followed to disassemble the carburetor far enough to permit cleaning and inspection.
4. Parts list shown DOES NOT reflect the contents of the kit.
5. Kit may contain extra parts intended for other carburetors within this group. Substitute identical replacement parts for original worn parts found in carburetor.

**CLEANING**

Cleaning must be done with carburetor disassembled. Use spray cleaner and a stiff bristle brush to remove dirt and carbon deposits. Do not use abrasives and wires to clean parts and passageways. Wash off in suitable solvent, and clear all passageways with compressed air. **Caution:** When cleaning with solvent do not soak or spray parts containing rubber, leather, plastic and electrical components.

**PARTS LIST**

1. Fitting, Fuel Inlet
2. Gasket, Fuel Fitting
3. Seal, Fuel Filter
4. Filter, Fuel Flow
5. Spring, Fuel Flow By-Pass
6. Fastener, Choke Rod (Upper)
7. Clip, Choke Rod (Lower)
8. Rod, Choke
9. Nut, Coupling, Choke Tube
10. Screw, Air Horn (4)
11. Air Horn Assembly
12. Rod, Float Hinge
13. Float Assembly
14. Needle, Fuel Inlet
15. Seat, Fuel Inlet
16. Gasket, Fuel Inlet Seat
17. Screw, Main Well Housing
18. Housing Assembly, Main Well
19. Piston, Power Valve
20. Spring, Piston
21. Plug, Access, Power Valve
22. Spring, Power Valve
23. Ball, Check Power Valve
24. Jet, Metering (Main)
25. Filter (Mesh), Main Well Housing
26. Gasket, Air Horn Assembly
27. Screw, Thermostatic Cover Assembly (3)
28. Retainer, Thermostat Cover Assembly (3)
29. Thermostat Cover Assembly
30. Gasket, Thermostat Cover Assembly
31. Baffle, Choke Plate
32. Housing, Choke
33. Seal, Choke Housing (not visible)
34. Clip, Retainer, Pump Link
35. Link, Pump Connecting
36. Arm, Pump
37. Piston Assy., Pump
38. Spring, Pump Piston Assembly
39. Washer, Spring Retainer
40. Spring, Return, Pump Piston
41. Stop, Spring, Pump Discharge
42. Spring, Pump Discharge Ball
43. Ball, Check, Pump Discharge
44. "O" Ring, Vacuum Tube (Some Models)
45. Screw, Throttle Flange Assy. to Main Body
46. Throttle Flange Assembly
47. Gasket, Main Body to Throttle Flange Assy.
48. Main Body Assembly
49. Seal, Coupling Nut, Choke Tube
50. Screw, Idle Mixture Adjusting
51. Spring, Idle Mixture Adjusting
52. Clip, Choke Pull-Off Rod (BV)
53. Rod, Choke Pull-Off (BV)
54. Screw, Mounting, Slotted Lever (BV)
55. Lever, Slotted, Choke Pull-Off (BV)
56. Screw, Mounting Choke Pull-Off (BV)
57. Choke Pull-Off (Vacuum Break) (BV)
58. Valve, Vent, Idle (BV)
59. Spring, Valve, Idle Vent (BV)
60. Nut, Valve, Idle Vent (BV)

NOTE: Pump Piston Cup (37) must be coated with a light film of lubricating oil then flared before installation.

Fig. 1

NOTE: Circled parts are included in most kits. Extra parts are included for other kits.

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

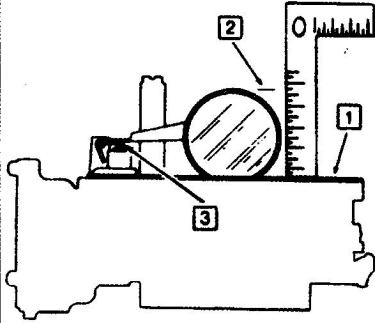
# ADJUSTMENT DATA

**FIG. A  
FLOAT LEVEL  
ADJUSTMENT**

1. WITH GASKET IN PLACE, INVERT AIR HORN.
2. MEASURE AS SPECIFIED FROM GASKET TO TOP OF EACH FLOAT.
3. TO ADJUST, BEND FLOAT TANG.

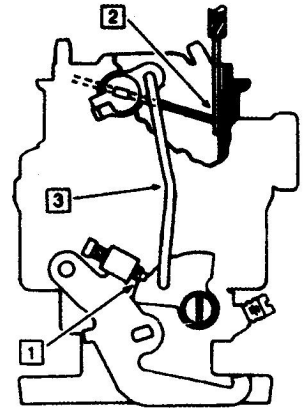
**NOTES:**

- A. FLOAT ALIGNMENT MUST BE CHECKED VISUALLY.
- B. FOR CARBURETORS USING A SPRING LOADED NEEDLE: INSERT A .030" SHIM BETWEEN SPRING LOADED NEEDLE AND FLOAT TANG. ALLOW FLOAT TO REST FREELY ON SHIM, THEN MEASURE FLOAT HEIGHT IN THE USUAL MANNER.



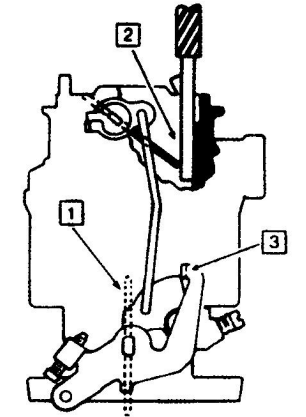
**FIG. E  
CHOKEROD  
ADJUSTMENT**

1. POSITION IDLE SPEED SCREW ON 2ND STEP OF FAST IDLE CAM.
2. INSERT SPECIFIED GAUGE OR DRILL BETWEEN WALL OF AIR HORN AND BOTTOM EDGE OF CHOKE VALVE.
3. TO ADJUST, BEND ROD.



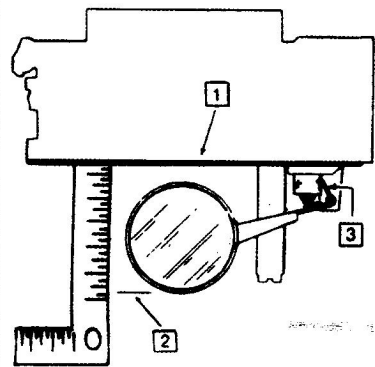
**FIG. F  
UNLOADER  
ADJUSTMENT**

1. MOVE THROTTLE VALVE TO WIDE OPEN POSITION.
2. MEASURE AS SPECIFIED BETWEEN WALL OF AIR HORN AND BOTTOM EDGE OF CHOKE VALVE.
3. TO ADJUST, BEND TANG ON THROTTLE LEVER.



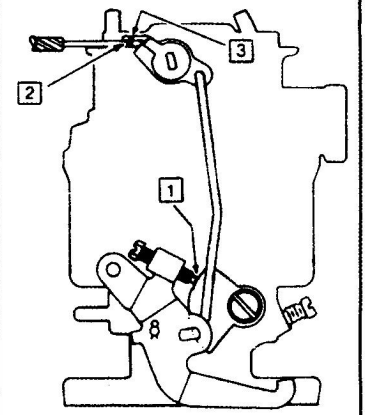
**FIG. B  
FLOAT DROP  
ADJUSTMENT**

1. POSITION AIR HORN RIGHT SIDE UP ALLOWING FLOATS TO HANG FREE. BE SURE GASKET IS IN PLACE (TEMPORARILY SECURED).
2. MEASURE AS SPECIFIED FROM GASKET SURFACE TO BOTTOM OF EACH FLOAT.
3. FOR CORRECT SETTING, BEND REAR TANG AS NECESSARY.



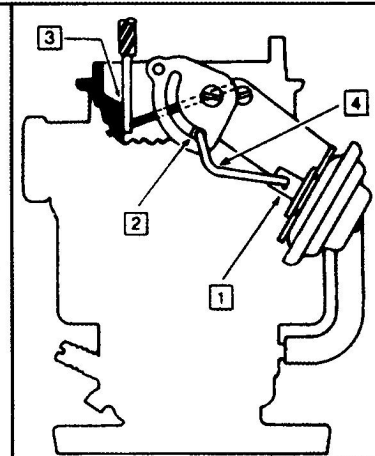
**FIG. G  
IDLE VENT  
ADJUSTMENT**

1. AFTER IDLE IS SET TO SPECIFICATION, PLACE SCREW ON LOW STEP OF CAM.
2. MEASURE AS SPECIFIED USING A GAUGE OR DRILL BETWEEN TOP OF AIR HORN AND BOTTOM OF VENT VALVE.
3. IF ADJUSTMENT IS REQUIRED, USE A SCREWDRIVER TO TURN VALVE SCREW.



**FIG. C  
VACUUM BREAK  
ADJUSTMENT**

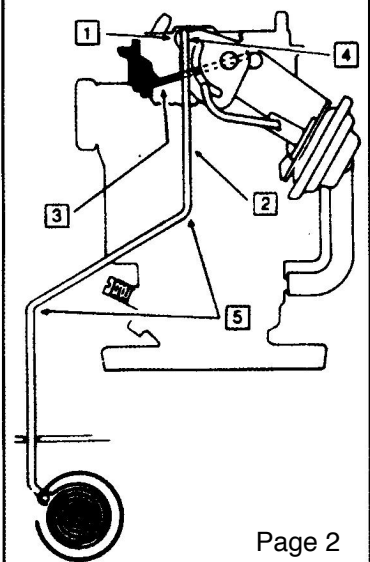
1. USING AN OUTSIDE VACUUM SOURCE, SEAT DIAPHRAGM PLUNGER.
2. ROTATE CHOKE VALVE TOWARD CLOSED POSITION UNTIL POINT IS IN END OF SLOT.
3. MEASURE AS SPECIFIED BETWEEN WALL OF AIR HORN AND LOWER EDGE OF CHOKE VALVE.
4. TO ADJUST, BEND ROD.



**FIG. H  
THERMOSTATIC COIL  
ROD ADJUSTMENT**

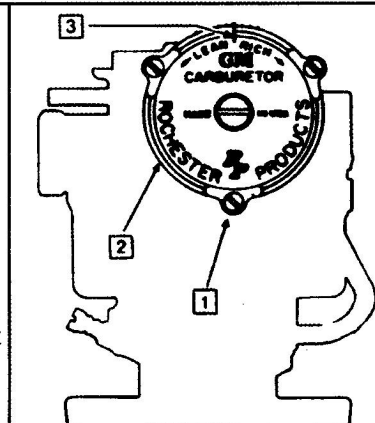
1. DISCONNECT THERMOSTAT ROD FROM UPPER END OF LEVER.
2. PUSH UP ON ROD TO END OF TRAVEL.
3. KEEP CHOKE VALVE COMPLETELY CLOSED.
4. THE BOTTOM EDGE OF ROD-END MUST LINE-UP WITH TOP OF HOLE IN CHOKE LEVER.
5. TO ADJUST, BEND ROD.

NOTE: A RICHER SETTING CAN BE OBTAINED BY EXTENDING LENGTH OF ROD & VICE VERSA. AFTER ADJUSTMENT, CHECK CHOKE ACTION FOR INTERFERENCE. DO NOT ATTEMPT ADJUSTMENT OF THERMOSTATIC COIL.



**FIG. D  
AUTOMATIC CHOKE  
ADJUSTMENT**

1. LOOSEN 3 CHOKE COVER SCREWS
2. ROTATE CHOKE COVER AGAINST SPRING TENSION TOWARD CLOSED CHOKE.
3. SET INDEX MARK ON CHOKE COVER TO SPECIFIED RAISED LINE GRADUATION ON CHOKE HOUSING



## SPECIFICATION CHART

Year	Application	Float Level Fig. A	Float Drop Fig. B	Vacuum Break Fig. C	Auto. Choke Fig. D	Choke Rod Fig. E	Unloader Fig. F	Idle Vent Fig. G	Idle Speed RPM	
									M/T <sup>7</sup>	A/T <sup>7</sup>
<b>CHEVROLET — SPECIFICATION I.D.-A</b>										
1956-54	235 Eng. -A/T -M/T	1-9/32	1-3/4	—	2NL	5/64	15/64	—	475	425
1953	235 Eng.	1-9/32	1-3/4	—	Index	5/64	15/64	—	475	425
1952-32	216, 235 Eng. -A/T -M/T -w/o Auto. Choke	1-9/32	1-3/4	—	Index	1/16	15/64	—	475	425
		1-9/32	1-3/4	—	1NL	1/16	15/64	—	475	425
		1-9/32	1-3/4	—	—	—	—	—	450	450
<b>GM TRUCKS —</b>										
1962-32	261, 235 Eng.	1-9/32	1-3/4	—	—	—	—	—	475	450
<b>AMC, JEEP — SPECIFICATION I.D.-B</b>										
1966-65	225 Eng.	1-9/32	1-7/8	—	Index	5/64	5/16	—	600	600 <sup>8</sup>
<b>BUICK, OLDSMOBILE —</b>										
1965-64	225 Eng.	1-9/32	1-7/8	—	Index	5/64	5/16	—	600	600 <sup>8</sup>
<b>CHEVROLET —</b>										
1962	153 Eng. -Late -Early	1-9/32	1-3/4	—	—	—	—	—	475	500
	194 Eng.	1-9/32	1-3/4	—	—	—	—	—	455	500
		1-9/32	1-3/4	—	Index	1/32	15/64	—	500	600
<b>KIEKHAEFER —</b>										
	194, 230 Eng.	1-9/32 <sup>3</sup>	1-3/4	—	Index	—	15/64	—	550	—
<b>OMC MARINE —</b>										
	153, 225 Eng.	1-9/32	1-3/4	—	Index	—	15/64	—	500	—
<b>PONTIAC —</b>										
1970	230 Eng.	1-9/32	1-7/8	5/32	4	1/16	15/64	3/64	600	500
1967-64	215, 230 Eng.	1-9/32	1-7/8	5/32 <sup>5</sup>	4	1/16	15/64	3/64	600	500
1963-61	195 Eng. (Exc. '62 w/M/T) -Carb. No. 7019061 -Carb. No. 7019062; 7020062 -Carb. No. 7023067, 068 <sup>6</sup>	1-9/32	1-3/4	—	—	—	—	—	700	—
		1-9/32	1-3/4	—	9	5/64	5/32	—	—	600
		1-9/32	1-3/4	—	Index <sup>10</sup>	5/64 <sup>10</sup>	5/32 <sup>10</sup>	—	700	600
<b>REVLEY CORP., UNIVERSAL MOTORS —</b>										
	225 -V6 Eng.	1-9/32	1-3/4	—	Index	3/64	15/64	—	600	—
<b>CHECKER — SPECIFICATION I.D.-C</b>										
1966-64	230 Eng. Carb. No. 7024184, 7026083	1-9/32	1-3/4	9/64 <sup>11</sup>	4	3/32	11/32	3/64	475	450
		1-9/32	1-3/4	5/32	4	1/16	11/32	3/64	—	475
<b>CHEVROLET —</b>										
1967-63	194 Eng. Carb. No. 7025105, 108	1-9/32	1-3/4	5/32 <sup>12</sup>	4	3/32	11/32	3/64	475	450
	Carb. No. 7023105, 108	1-9/32	1-3/4	5/32 <sup>12</sup>	4	1/16	11/32	3/64	450	500
1967-57	230, 235, 250 Eng. Carb. No. 7024000, 001	1-9/32	1-3/4	5/32 <sup>12</sup>	4	3/32 <sup>13</sup>	11/32	3/64	475 <sup>14</sup>	450 <sup>14</sup>
	Carb. No. 7023004, 005	1-9/32	1-3/4	17/64	4	3/32	11/32	3/64	500	500
	Carb. No. 7020000, 003, 005, 106, 107	1-9/32	1-3/4	5/32	4	3/64	11/32	3/64	450	450
	Carb. No. 7013000, 003, 005, 955, 956; 7019000	1-9/32	1-3/4	—	Index <sup>15</sup>	3/64	15/64	—	475	450
	Carb. No. 7011102; 7012127, 129, 502	1-9/32	1-3/4	—	16	3/64	15/64	—	475	450
	Carb. No. 7009656, 657, 784; 7011656, 657	1-9/32	1-3/4	—	17	5/64	15/64	—	475	425
		1-9/32	1-3/4	—	3NL	5/64	15/64	—	475	425
<b>GM TRUCKS —</b>										
1967-63	194, 230, 250, 292 Eng.	1-9/32	1-3/4	—	—	—	—	1/16	475	450
<b>OLDSMOBILE —</b>										
1967-66	250 Eng.	1-9/32	1-3/4	9/64 <sup>18</sup>	4	3/32	11/32	3/64	475	450
1965-64	225 Eng.	—	—	—	—	—	—	—	—	—
<b>PONTIAC —</b>										
1962	195 Eng. -M/T	1-9/32	1-3/4	—	—	—	—	—	700	—
<b>STUDEBAKER —</b>										
1966-65	194, 230 Eng. Carb. No. 7026085	1-9/32	1-3/4	9/64 <sup>18</sup>	4	3/32	11/32	3/64	475	450
		1-9/32	1-3/4	5/32	4	3/64	11/32	3/64	475	450

### FOOTNOTES

- 1 Rod diameter distance.
- 3 Carb. No. 7025183, 184 set 1-9/32 with 1/32 shim between needle and float.
- 4 Refer to Fig. H.
- 5 Carb. No. 7037167; 7036167; 7027167; 7026167 set 11/64.  
Carb. No. 7026168; 7025168; 7024164, 166 set 9/64.
- 6 Pump rod location: A/T inner; M/T outer.
- 7 M/T in *neutral*, A/T in *drive*; unless otherwise noted.
- 8 Without A/C, transmission in *neutral*.
- 9 1961 models set 2NR; 1962 models set Index.

- 10 Carb. model BC only.
- 11 Carb. No. 7025003 set 5/32.
- 12 Carb. No. 7026028; 7025000, 108; 7023108 set 9/64.
- 13 Carb. No. 7025004, 005; 7023000, 003 set 1/16.
- 14 Carb. No. 7023000, 003 -M/T 450, -A/T 500.
- 15 Carb. No. 7020003 set 1NL.
- 16 A/T set 2NR, M/T set 1NR.
- 17 A/T set Index, M/T set 1NL.
- 18 Carb. No. 7026027, 7025105 set 5/32.

### ABBREVIATIONS

- |      |                        |
|------|------------------------|
| A/T  | Automatic Transmission |
| Exc. | Except                 |
| M/T  | Manual Transmission    |
| w/o  | without                |
| NL   | Notch Lean             |
| NR   | Notch Rich             |