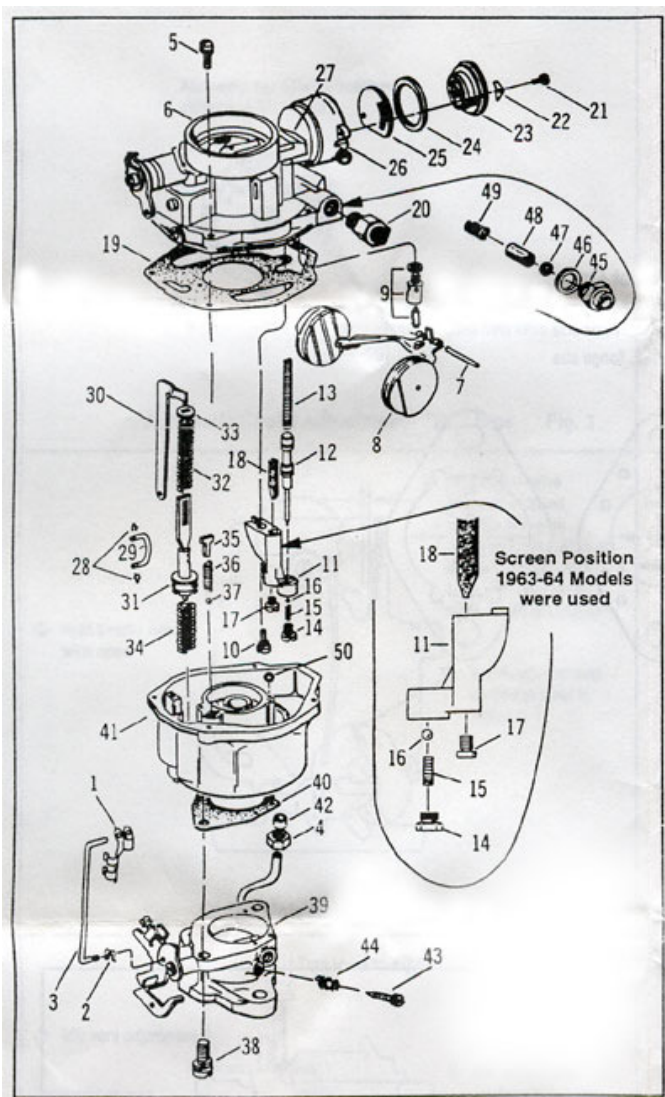


# INSTRUCTION SHEET

## Rochester Carburetor – “B” & “BC”

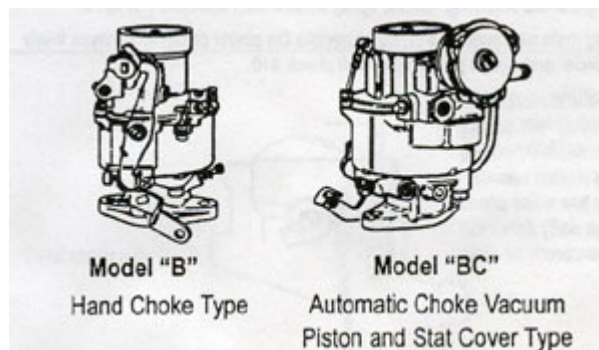
### General Exploded View

The general design and parts shown will vary to individual units covered on this instruction sheet.



### Cleaning

Cleaning must be done with carburetor disassembled. Soak parts long enough to soften and remove all foreign material. Use a carburetor cleaning 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 rubber, leather or plastic parts in solvent.



### Disassembly

Use exploded view as a guide. The numerical sequence may generally be followed to disassemble unit far enough to permit cleaning and inspection. Note: Automatic choke models usually only require removal of stat cover or vacuum unit. Manual choke (not shown) requires no disassembly. Caution: If choke shaft requires removal, choke valve screw area staked over. Staking must be filed off before screws are turned.

### Nomenclature

#### Ref.No.

1. Retainer – Choke Rod (Upper)
2. Retainer – Choke Rod (Lower)
3. Rod – Choke
4. Nut – Choke Suction Tube
5. Screw & Washer Bowl Cover
6. Bowl Cover Assembly
7. Pin – Float Lever Hinge
8. Float & Lever Assembly
9. Needle, Seat & Gasket Assembly
10. Screw & Washer – Main Well Support
11. Support Assembly – Main Well
12. Piston – Power
13. Spring – Power Piston
14. Plug – Power Valve
15. Spring – Power Valve
16. Ball – Power Valve
17. Jet – Main Metering
18. Screen – Main Well Support
19. Gasket – Bowl Cover
20. Fitting – Fuel Inlet
21. Screw – Stat Cover
22. Retainer – Stat Cover
23. Stat Cover & Spring Assembly
24. Gasket – Stat Cover
25. Plate – Choke Baffle

#### Ref.No.

26. Choke Housing
27. Gasket Choke Housing (not shown)
28. Retainer – Pump Link
29. Link – Pump
30. Rod – Pump
31. Pump Plunger
32. Spring – Pump Plunger
33. Washer – Pump Spring
34. Spring – Pump Return
35. Guide – Pump Discharge Ball
36. Spring – Pump Discharge Ball
37. Ball – Pump Discharge
38. Screw & Washer – Throttle Body To Bowl
39. Throttle Body Assembly
40. Gasket – Body Flange
41. Bowl – Float
42. Packing – Choke Suction Tube
43. Needle – Idle Adjusting
44. Spring – Idle Adjusting Needle
45. Fitting – Fuel Inlet
46. Gasket – Fuel Filter
47. Gasket – Fuel Filter
48. Filter – Fuel Inlet
49. Spring – Fuel Inlet Filter
50. O-Ring – Vacuum Channel Tube

### Reassembly

Reassemble in reverse order of disassembly. Note: Special instructions and follow numerical outline in making adjustment. See other side.

## Special Instructions

Plunger (31) remove paper sleeve from leather cup if used. Flex leather outward slightly.  
Soak cup in gasoline, kerosene or oil for a few minutes prior to placing in carburetor.  
When installing the idle adjusting needle, lightly bottom then back out 1 1/2 turns.  
When installing main well support #11, make certain the power piston #12 moves freely in vacuum cylinder and opens power valve ball check #16.

## Pump Rod Setting

Model "B" Outer Hole  
Model "BC" Inner Hole

**Leaner Setting** Can be made by having the rod slide freely in to the hole.

**Richer Setting** Equivalent to 2 notches rich. Can be made by having the rod end 2 rod diameters above the hole.

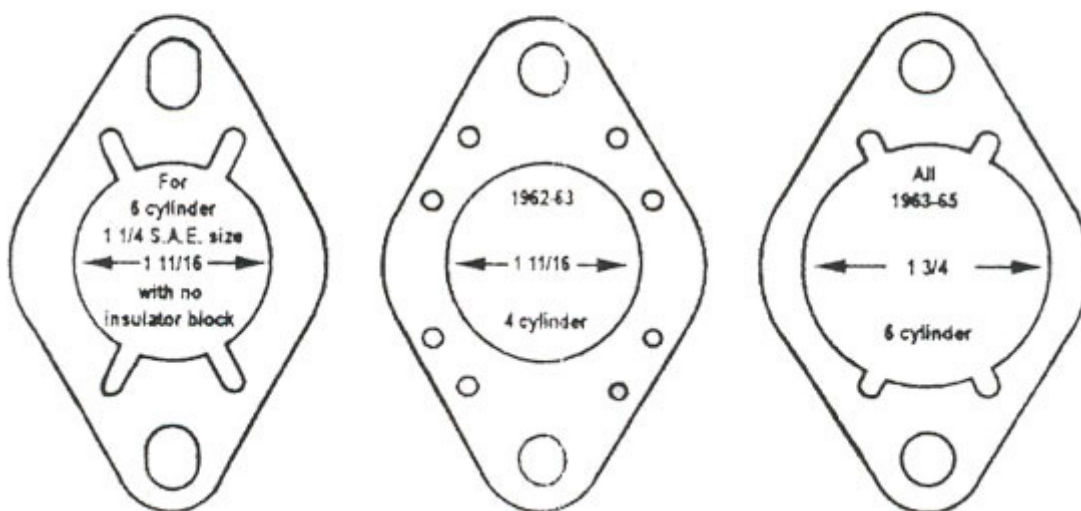
**Note:** After making any changes in choke rod length, check for free operation, as interference may exist at the manifold end of the rod. Make sure that it is possible for the choke valve to fully close at the new setting.

## Flange Gasket Data

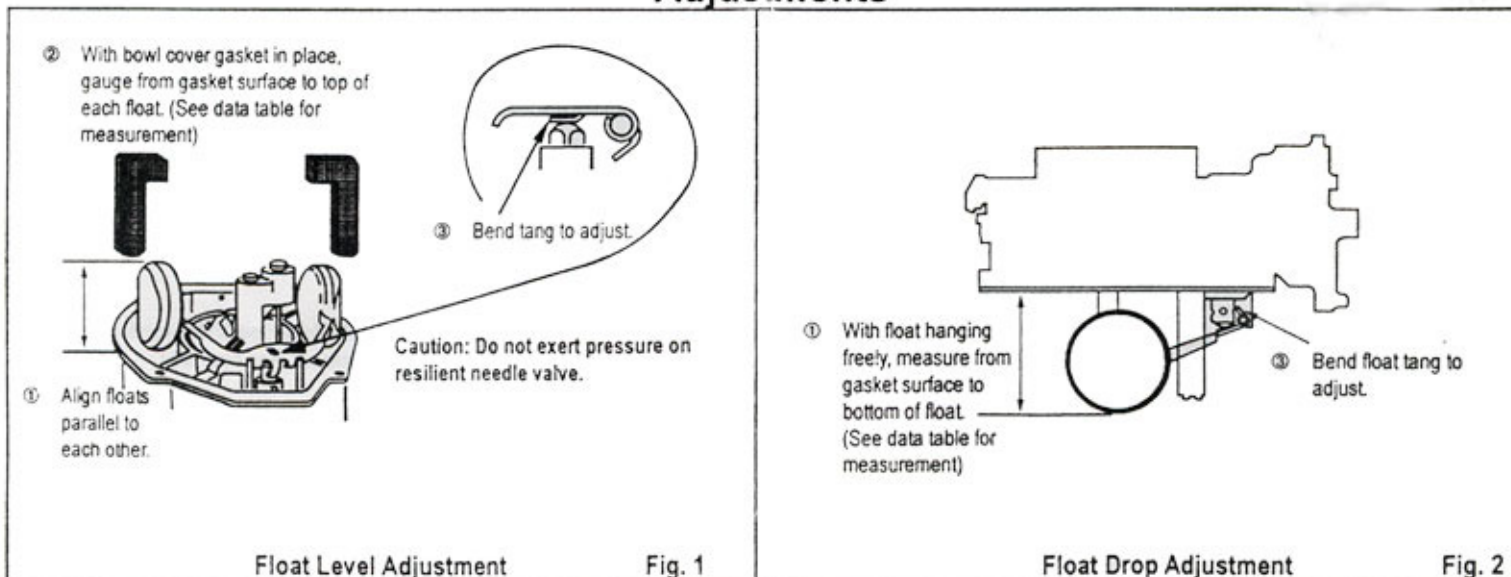
Measure stud center to identify S.A.E. size

2 11/16" stud centers 1 1/4" S.A.E. flange size

2 15/16" stud centers 1 1/2" S.A.E. flange size



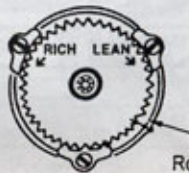
## Adjustments





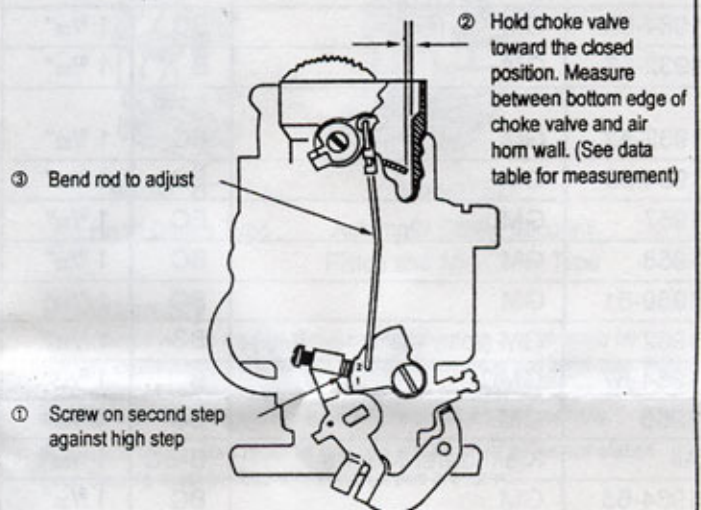
## Adjustments (Cont.)

Allowable variation 2 notches  
either way from index

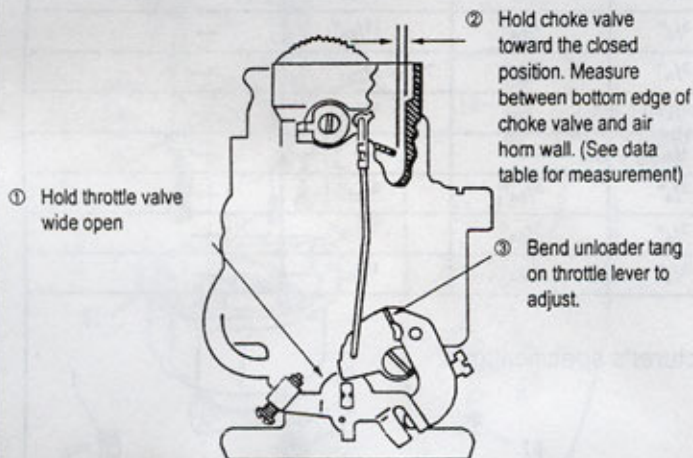


Rotate stat cover against spring tension. Set mark on cover to specified point on choke housing. (See data table for setting)

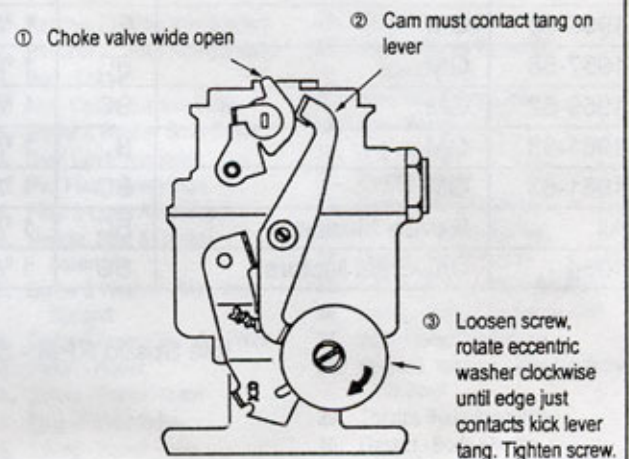
Automatic Choke Adjustment - "BC" type Fig. 3



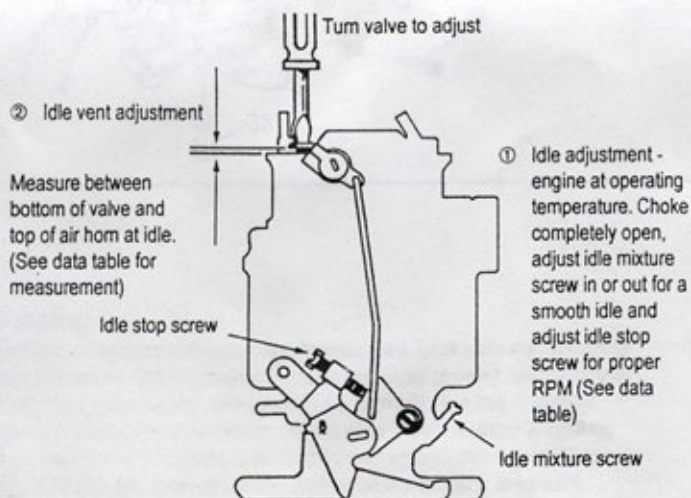
Choke Rod Adjustment Fig. 4



Choke Unloader Adjustment Fig. 5

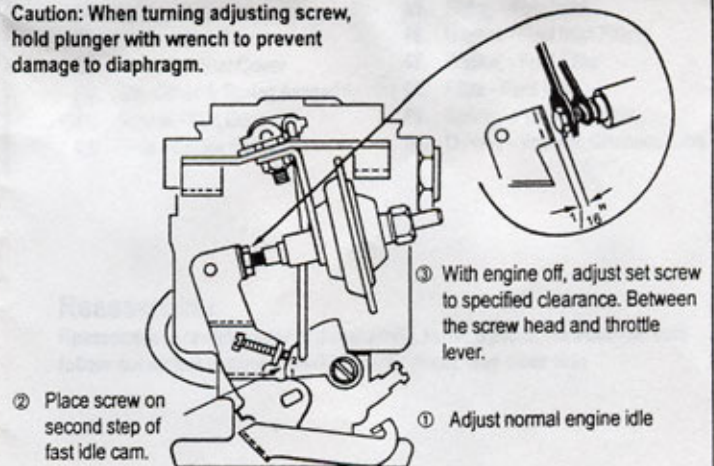


Manual Choke Positive Idle Stop Adjustment Fig. 6



Idle and Idle Vent Adjustment On Engine Adjustments Fig. 7

Caution: When turning adjusting screw, hold plunger with wrench to prevent damage to diaphragm.



Slow Closing Throttle Control Adjustment Fig. 8



## Adjustment Data Table

Year	Make	Carb Model	Float Level	Float Drop	Choke Rod	Unloader	Idle Vent
1964-65	GM	BC	1 9/32"	1 7/8"	5/64"	5/16"	—
1932-67	GM	B	1 9/32"	1 3/4"	—	—	3/64" - 1/16"
1932-53	GM	BC	1 9/32"	1 3/4"	5/64"	5/32" 15/64"	—
1954-56	GM	BC	1 9/32"	1 3/4"	5/64"	15/64"	—
1957	GM	BC	1 9/32"	1 3/4"	5/64"	15/64"	—
1958	GM	BC	1 9/32"	1 3/4"	5/64"	15/64"	—
1959-61	GM	BC	1 9/32"	1 3/4"	3/64"	15/64"	—
1962	GM (235", 153" & 194" Eng.)	BC	1 9/32"	1 3/4"	3/64"	15/64"	—
1964-67	GMC	B	1 9/32"	1 3/4"	—	—	3/64"
1966	GM	BC	1 9/32"	1 3/4"	5/64"	5/16"	—
All	Kiekhaefer Marine	B-BC	1 9/32"	1 3/4"	—	15/64"	—
1964-65	GM	BC	1 9/32"	1 7/8"	5/64"	5/16"	—
All	Outboard Marine	BC	1 9/32"	1 3/4"	—	15/64"	—
1941-52	GM	BC	1 9/32"	1 3/4"	1/16"	15/64"	—
1955-56	GM	BC	1 9/32"	1 3/4"	5/64"	15/64"	—
1957-58	GM	BC	1 9/32"	1 3/4"	5/64"	15/64"	—
1959-62	GM	BC	1 9/32"	1 3/4"	5/64"	15/64"	—
1961-63	GM	B	1 9/32"	1 3/4"	—	—	—
1961-63	GM	BC	1 9/32"	1 3/4"	5/64"	5/32"	—
All	Revley Marine	BC	1 9/32"	1 3/4"	3/64"	15/64"	—
1964	Universal Motors	BC	1 9/32"	1 3/4"	3/64"	15/64"	—
Idle Speed RPM - See manufacturer's specifications							