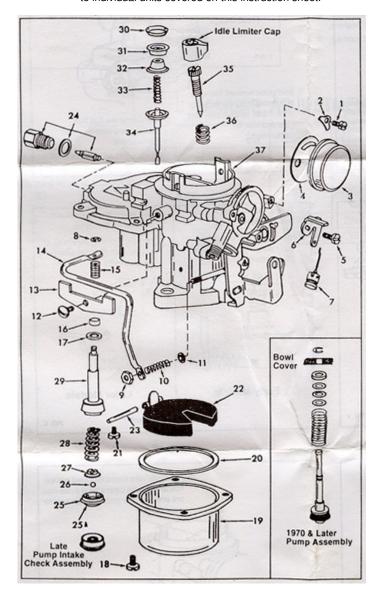


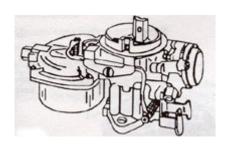
INSTRUCTION SHEET

Carter – Model RBS

General Exploded View

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





Disassembly

Ref.No.

3. Stat Cover

Lever

1. Screw – Stat Cover (3) 2. Retainer - Stat Cover

5. Screw - Choke Piston

6. Lever - Choke Piston

7. Piston & Link - Choke

8. Retainer - Pump Rod

10. Spring - Pump Arm

Connector Link

12. Screw - Pump Arm

Retainer

14. Pump Arm

19. Bowl - Fuel 20. Gasket - Fuel Bowl

11. Retainer - Pump Arm

13. Retainer - Pump Arm

15. Spring – Pump (Upper) 16. Bushing – Pump Plunger

21. Screw - Float Pin (2)

Shaft (Some Models) 17. Washer – Pump 18. Screw – Bowl Attaching (4)

Connector Link Spring

9. Nut – Pump Arm Connector Link

4. Gasket Stat Cover

Use the exploded view as a guide. The numerical sequence may generally be followed to disassemble unit far enough to permit cleaning and inspection. Note: Pump plunger (29) removal. Press to bottom of pump cylinder then tap lightly on pump shaft to remove parts (25), (26), (27), (28), (29). To remove step up rod and diaphragm (34). Pry out washer (30) then pierce diaphragm cover (31) near outer edge with small punch or screwdriver and pry out cover (31).

Note: Remove rubber vent valve on 1968-69 models before cleaning.

Nomenclature

Ref.No.

- 22. Float & Lever Assembly
- 23. Pin Float Lever
- 24. Needle, Seat & Gasket
- 25. Seat (with hole) Intake Ball Check
- 25a. Retainer (solid) Pump Cylinder
- (Some Models)
- Ball (Some Models)

- 33. Rod Diaphragm Spring -
- Assembly
- 35. Needle Idle Adjusting

- Assembly
- (Some Models)
- 26. Baĺl Intake Check
- 27. Retainer Intake Check
- 28. Spring Pump (Lower)
- 29. Plunger Pump
- 30. Washer Conical
- 31. Cover Step Up Rod
- 32. Diaphragm Retainer -Step Up
- Step Up Rod 34. Step Up Rod & Diaphragm

- 36. Spring Idle Adjusting Needle
- 37. Main Body Assembly

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 bore is free of all hard carbon deposits. Wash off in suitable solvent. Blow out all passages in casting with compressed air and check carefully to insure thorough cleaning of obscure areas.

Caution: Do not soak rubber, leather or plastic parts in solvent.

Reassembly

Reassemble in reverse order of disassembly. Note special instructions and follow numerical outline in making adjustments necessary for carburetor being serviced.

Special Instructions

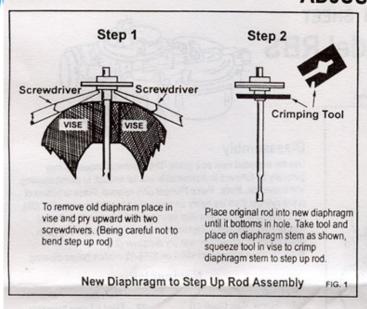
Idle adjusting needle (35). Lightly bottom then back out 1 1/4 turns.

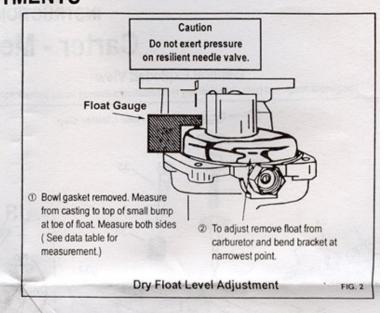
- Step up rod to diaphragm assembly (34) See Fig. 1
- Place step up rod and diaphragm assembly (34) in position. Using hat shaped retainer (32). Press diaphragm down in place against gasket ledge in casting. Remove retainer and examine for even assembly. Install (33), (32) and new diaphragm cover (31) using a 5/8" socket as a drift and tap in place with a hammer. Next install conical washer (30) with small opening down using a 1/2" socket as a drift tap with hammer until washer is driven into cover 3/32" to 1/8" below top edge of cover. Caution: Do not strike center of cover or drive conical washer in beyond 1/8".

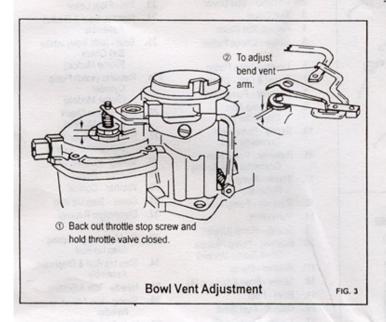
Pump plunger (29) - Remove paper sleeve from leather cup if used. Flex leather cup outward slightly. Soak cup in gasoline, kerosene or oil for a few minutes prior to placing in carburetor.

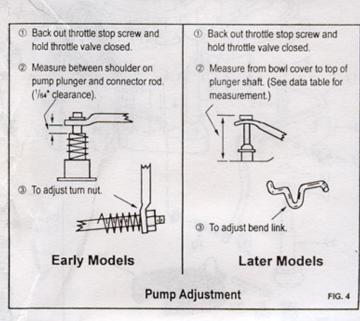


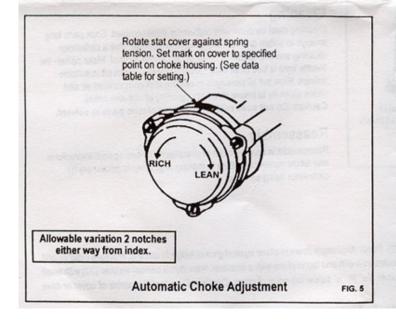
ADJUSTMENTS

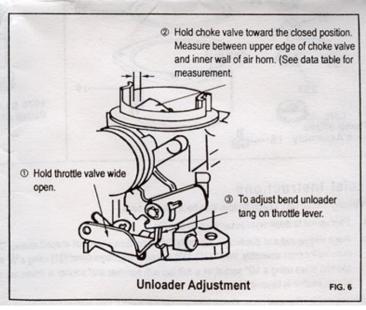




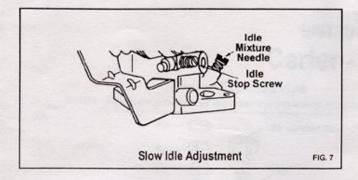








MarineEngine.com



Supplement

- 1. Set ignition timing per manufacturer's specifications and procedure.
- 2. Engine at operating temperature, choke fully open.
- 3. Adjust throttle stop screw to specified idle speed. R.P.M. using a tachometer.
- 4. Air cleaner installed.
- Adjust idle mixture needle to obtain the highest R.P.M. at the leanest best idle setting.
- 6. Re-adjust idle speed if necessary.

MARINE ADJUSTMENTS

O.E.M.	Cyl.	Carb No.	Float Level	Pump Adj.	Unloader	Chok Setting	Slow Idle R.P.M.
Kiekhaefer Mercury Marine (St	ern drive)				1		
MCM 80	4 cyl. 89.7"	4394	3/8"	.015"	7/64"	4 Lean	650
Outboard Marine Corporation			12.3				
120	4 cyl. (Dual Carb.)	3971	15/32"	.015"	7/64"	Index	600
120	4 cyl. (Dual Carb.)	4208	15/32"	.015"	7/64"	Index	600
150	V6 cyl.	3951	15/32"	.015"	7/64"	Index	600
150	V6 cyl.	4207	15/32"	.015"	7/64"	Index	600