FUEL SYSTEM
SERVICE INSTRUCTION WORKSHEET

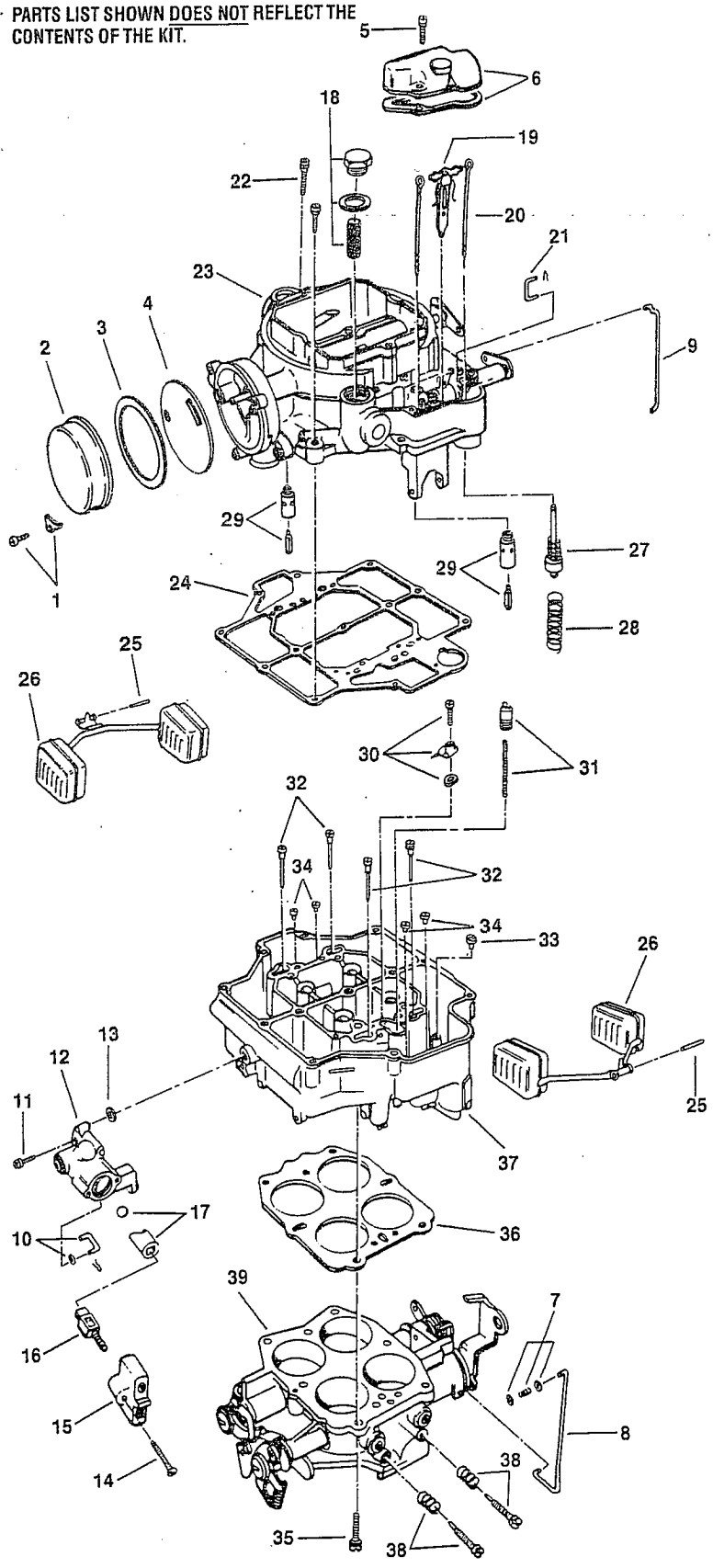
GF2031VT-3

TO REPAIR

CARTER CARBURETOR

4 BARREL—MODEL WCFB

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



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.

SPECIAL NOTES:

1. Cover opening on intake manifold after carburetor is removed.
2. Before removing idle mixture screws (38), turn in until lightly seated, counting number of turns. Record for proper installation.
3. When removing rods and different length screws, note their location for proper installation.
4. Install parts and components in reverse order of removal.
5. Before installing pump piston assembly (27), flare leather cup, then soak in clean oil for a few seconds.
6. When installing idle mixture screws (38), turn in until lightly seated, then back out number of turns recorded earlier.

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. Screw and retainer, cover (3)
2. Thermostatic coil and cover assembly
3. Gasket, cover
4. Baffel plate, choke
5. Screw, dust cover (3)
6. Dust cover and gasket
7. Retainer, spring & washer
8. Rod, throttle connector
9. Rod, choke connector
10. Link & washer, stater switch operating
11. Screw, housing (3)
12. Housing, starter switch
13. Washer, housing
14. Screw, cover (2)
15. Starter switch cover assembly
16. Block, switch guide
17. Plunger and ball, starter switch
18. Plug and strainer assembly
19. Vacuum piston rod assembly
20. Metering rod (2)
21. Link, pump connector
22. Screw, air horn (9)
23. Air horn assembly
24. Gasket, air horn
25. Pin, float hinge (2)
26. Float assembly (2)
27. Pump piston assembly
28. Spring, pump return
29. Needle & seat assembly (2)
30. Pump jet assembly
31. Vacuum piston and spring assembly
32. Low speed jets assembly
33. Plug assembly, pump discharge passage
34. Main jets assembly
35. Screw, throttle body (4)
36. Gasket, throttle body
37. Main body assembly
38. Idle mixture adjusting screw & spring
39. Throttle body assembly

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ADJUSTMENT DATA

FIG. 1
FLOAT LEVEL ADJUSTMENT

1. With floats in place invert air horn assembly and remove gasket.
2. Measure distance between top of floats and air horn surface, using a gauge or drill bit as shown.
3. To adjust, bend float arms as necessary. Make sure float assemblies are properly aligned and move freely.

CAUTION: *Do not apply pressure on needle valves as damage or incorrect setting may result.*

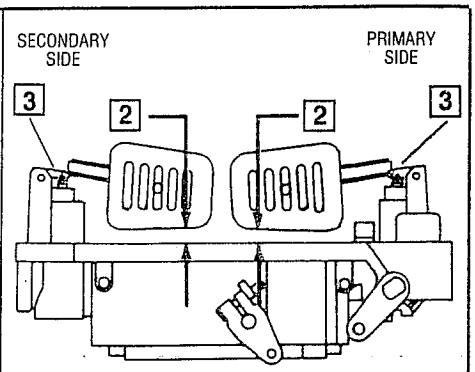


FIG. 2
FLOAT DROP ADJ.

TYPE I

1. With floats in place, hold air horn assembly in upright position and remove gasket.
2. Measure distance between top center of float and air horn surface, using a gauge or drill bit.
3. To adjust, bend stop tabs on float arms.

TYPE II

4. Hold air horn as in step 1.
5. Measure distance between bottom of floats at toe ends and air horn surface.
6. Adjust as in step 3.

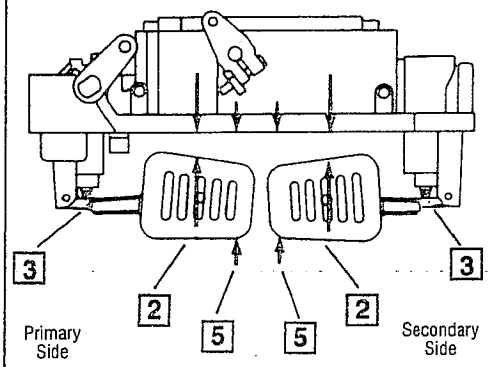


FIG. 3
PUMP ADJUSTMENT

1. Back out throttle stop screw to seat throttle valve in bores.
2. Hold a straight edge across top of dust cover housing, next to the pump arm.
3. Check that the flat surface of the pump arm is parallel with the straight edge.
4. To adjust, bend throttle connector rod at elbow.

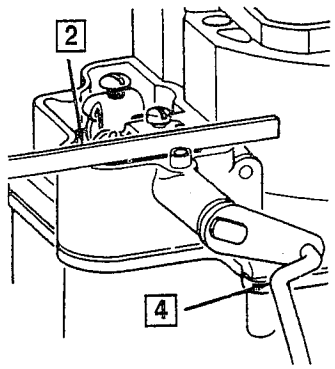


FIG. 4
BOWL VENT ADJUSTMENT
(where applicable)

1. Fully close throttle valves and install dust cover with gasket in place.
2. Measure distance between lower edge of vent valve cap and dust cover surface, using a gauge or drill bit.
3. To adjust, remove dust cover and bend valve operating arm. Install dust cover and recheck clearance.

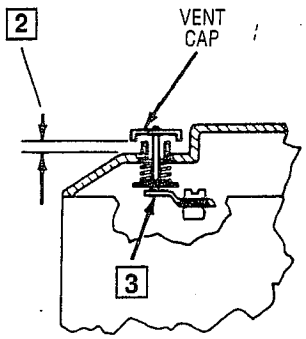
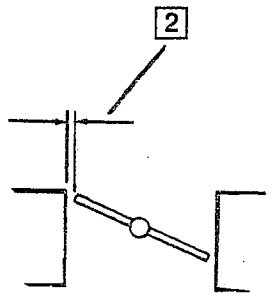
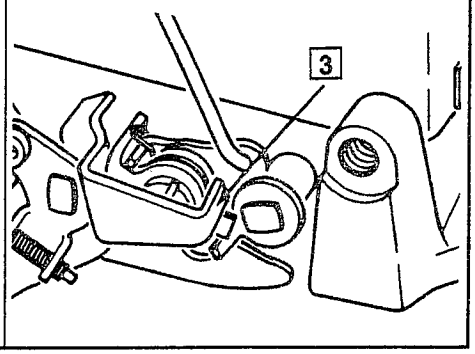


FIG. 5
UNLOADER ADJUSTMENT

1. Hold throttle valves in wide open position.
2. Measure distance between upper edge of choke valve and air horn wall, using a gauge or drill bit.
3. To adjust, bend unloader tab on throttle shaft lever.





SPECIFICATION CHART

Year	Application	Float Level		Float Drop				Bowl Vent	Unloader	Choke Setting
				Primary		Secondary				
		Pri.	Sec.	Type	Dim.	Type	Dim.			
SPECIFICATION I.D.-A										
CHEVROLET										
1961-56	265, 283 Eng.—Exc.	1/8	1/4	I	5/8	I	3/4	1/16	3/16[1]	Index
	Carb. Nos. 2419; 2613, 26; 3181, 82	1/8	1/4	I	5/8	I	3/4	1/16	—	—
CHRYSLER MARINE										
	V8 Eng.	5/32	7/32	I	21/32	I	23/32	1/16	3/16	—
OLDSMOBILE										
1955-52	All—Exc.	3/16	3/16	I	11/16[2]	I	11/16[2]	1/16	3/16	Index
	Carb. No. 2059	1/4	1/4	I	3/4	I	3/4	1/16	3/16	Index
	Carb. No. 932	1/4	1/4	I	3/4	I	3/4	3/32	1/8	Index
OWENS YACHT										
1963	All	1/8	1/4	I	5/8	I	3/4	—	—	—
SPECIFICATION I.D.-B										
CHEVROLET										
1965-64		3/16[3]	1/4[3]	II	2	II	2	3/32	7/32	Index
1963-60		1/8[4]	1/4[4]	II	2	II	2	3/32	1/4	Index
1959-56	Exc.	1/8	1/4	I	5/8	I	3/4	3/32	3/16	Index
	Carb. No. 2816, 17, 18	5/32	9/32	II	2	II	2	3/32	3/16	Index
CHRIS CRAFT										
	283 Eng.—Exc. Alum. Carb.	1/8	1/4	I	5/8	I	3/4	3/32	3/16	Index
STUDEBAKER										
1958-57	V8	3/16	3/16	I	11/16	I	11/16	—	9/64	—

FOOTNOTES:

1 Carb. No. 2627 set 1/8".
2 Carb. No. 2016 set 1/2".
3 With solid (metal) tip needle, set Pri. 7/32, Sec. 9/32.
4 Carb. models 3190, 91; 3500, 01 with solid (metal) tip needle, set Pri. 5/32, Sec. 9/32.

ABBREVIATIONS:

Alum. - Aluminum
Exc. - Except