

FUEL SYSTEM

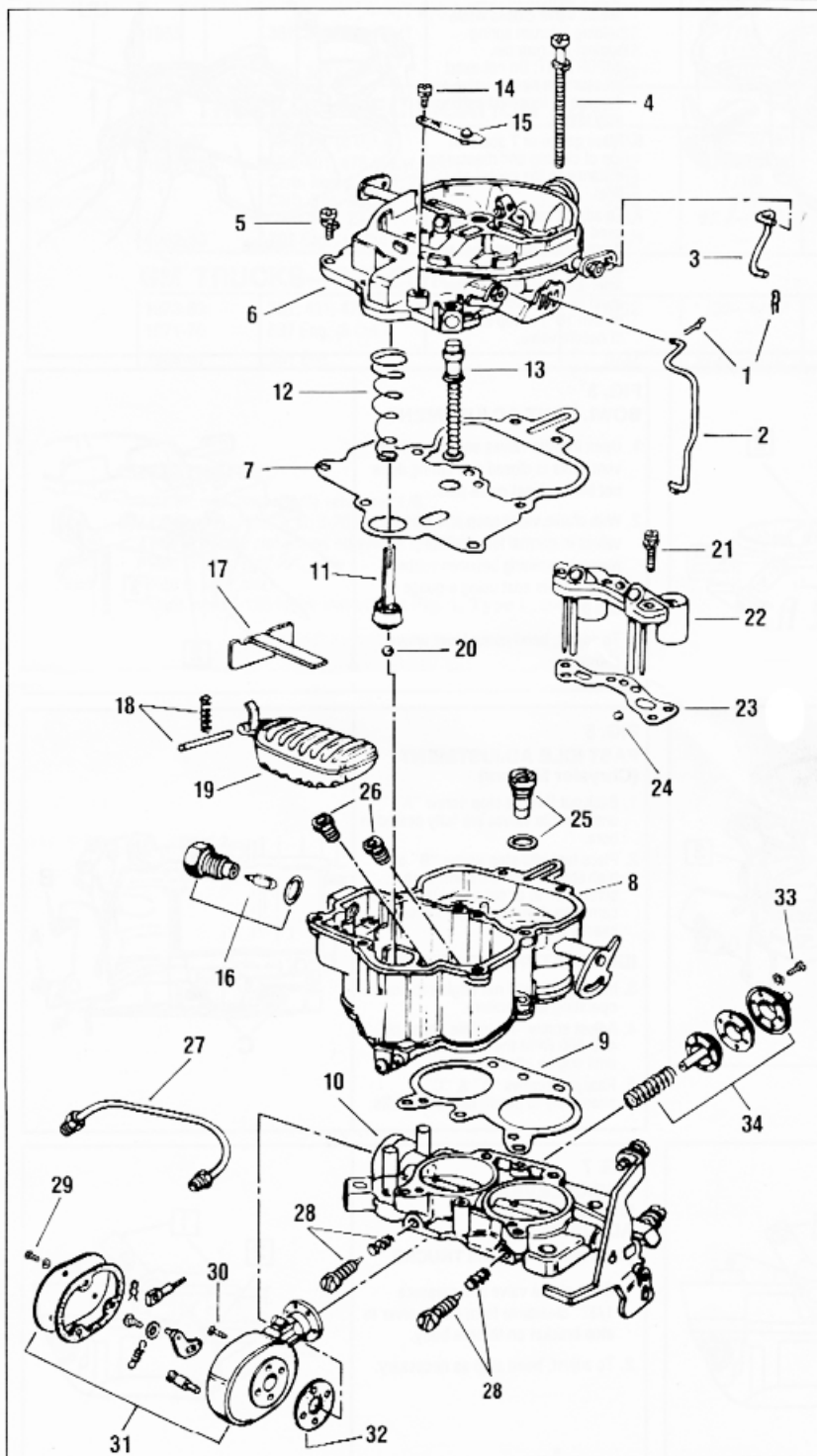
SERVICE INSTRUCTION WORKSHEET

TO REPAIR

GF3571-4

STROMBERG CARBURETOR

2 BARREL—Model WWC



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.

REMOVAL & INSTALLATION NOTES

1. Cover opening on intake manifold after carburetor is removed.

2. Before removing idle mixture adjusting screw (28), turn in until lightly seated counting number of turns. Record for proper installation.

3. Do not disassemble choke & throttle valves unless replacement of same is necessary.

4. Do not interchange metering jets. Mark their location for proper installation.

5. Install parts and components in reverse order of removal.

6. When installing bowl vent valve (15), make sure the rubber valve cap is centered over opening in air horn.

7. Be sure valve (15) has slight tension to hold the rubber valve closed when screw (14) is tightened. If valve remains open, remove assembly and bend the flat spring so it will apply slight pressure on the rubber valve when tightening the screw.

8. Before installing pump plunger assy. (11), flare leather cup and soak in clean oil for a few minutes.

9. When installing idle mixture adjusting screw (28), turn in until lightly seated, then back out number of turns recorded earlier.

PARTS LIST

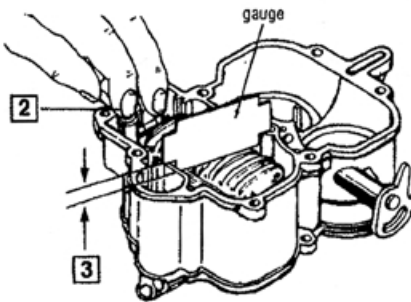
1. Cotter pin
2. Rod, pump
3. Rod, fast idle
4. Screw, air horn (4 long)
5. Screw, air horn (2 short)
6. Air horn assembly
7. Gasket, air horn
8. Main body assembly
9. Gasket, throttle body
10. Throttle body assembly
11. Pump plunger assembly
12. Spring, pump plunger
13. Piston, vacuum power
14. Screw, bowl vent valve
15. Valve assy., bowl vent
16. Needle & seat assembly
17. Baffle, fuel
18. Pin & spring, float hinge
19. Float assembly
20. Ball, pump intake check
21. Screw, venturi cluster (3)
22. Venturi cluster assembly
23. Gasket, venturi cluster
24. Ball, pump outlet check
25. Jet, power by-pass
26. Jet, main metering
27. Governor air line assy.
28. Screw, idle mixture adj.
29. Screw, cover (3)
30. Screw, governor housing (4)
31. Governor throttle housing
32. Gasket, governor housing
33. Screw, cover (6)
34. Cover & diaphragm assy., governor throttle

ADJUSTMENT DATA

FIG. 1

Type I (carbs. with steel needle valve)

1. Hold main body right side up and remove gasket.
2. Hold fulcrum spring against fulcrum pin and float tab firmly against needle valve. Make sure hinge pin does not drop out of float hinge.
3. Place gauge or T scale on top of casting as shown. Top center of float should just touch the gauge. Make sure needle valve is held closed by float tab.
4. To adjust, bend float tab as necessary.



Type II (carbs. with viton tipped (rubber) needle valve).

5. Invert the main body and remove gasket. Allow weight of float to hold needle valve closed while holding fulcrum spring against fulcrum pin. **IMPORTANT:** Do not exert pressure on needle valve as damage or incorrect setting may result.
6. Place gauge or T scale on top of casting and measure distance to top center of float.
7. To adjust, remove float and bend tab as necessary. **Caution:** Do not attempt to adjust float in carburetor. After adjustment, float tab must be perpendicular (within 10°) to top surface of needle valve.

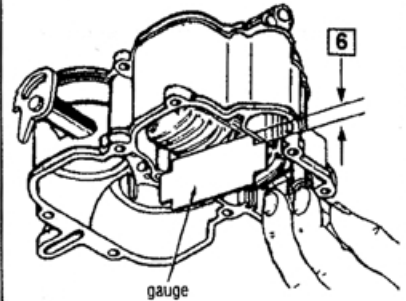


FIG. 2

PUMP TRAVEL ADJUSTMENT

1. Back out throttle stop screw until throttle valves seat in bore. Make sure pump rod is in center slot of pump lever.
2. Measure at tip on pump lever the total travel of pump, between fully closed and fully open throttle valves. It should be as specified.
3. To adjust, bend pump rod at elbow.

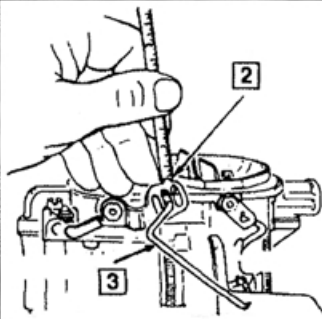


FIG. 3

BOWL VENT ADJUSTMENT

1. Open throttle valves and check that vent valve is closed and spring does not bind against guide pins.
2. With choke valve open and throttle valves in normal idle position, measure opening between rubber valve and its seat using a gauge or drill bit.
3. To adjust, bend pump lever where shown.

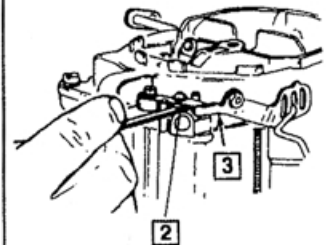


FIG. 4

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 lip as necessary.

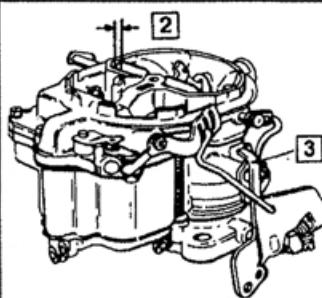
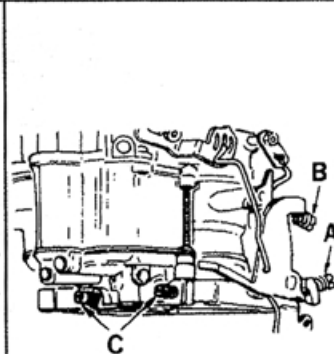


FIG. 5

FAST IDLE ADJUSTMENT (Chrysler Motors)

1. Back out throttle stop screw "A" until throttle valves are fully seated in bore.
2. Place fast idle stop screw "B" on high step of fast idle cam. Turn screw "B" in or out so it just touches cam then, turn screw clockwise exactly 3-1/2 turns.



IDLE MIXTURE ADJUSTMENT

3. Install carb. and run engine to normal operating temperature.
4. Adjust screw "A" to idle speed of 450-500 RPM then turn screw "C" until engine idles smoothly.
5. Readjust screws "A" & "C" alternately to obtain desired results.

FIG. 6

CHOKE LEVER OVER-TRAVEL ADJUSTMENT (screw type lever) GM TRUCKS

1. Close choke valve and measure 3/16" clearance from choke lever to stop on choke tube holer bracket.
2. To adjust, bend stop as necessary.

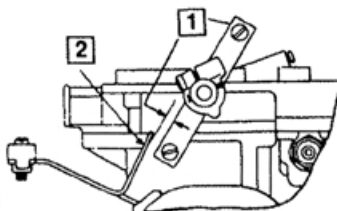
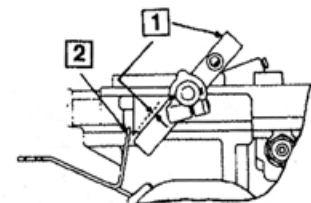


FIG. 7

CHOKE LEVER OVER-TRAVEL ADJUSTMENT (rivet type lever) GM TRUCKS

1. Close choke valve and measure 1/32" clearance from choke lever to stop bracket on throttle body.
2. To adjust, bend stop as necessary.



SPECIFICATIONS BY APPLICATION

Year	Application	Float Level ¹	Pump Travel ³	Bowl Vent	Unloader	Auto. Choke
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CHRYSLER MOTORS, DeSOTO, DODGE TRUCKS--SPECIFICATION I.D.-A

1967-66	361, 383 Eng.—A/T	5/32	7/16	3/64	15/64	2 Rich
	—A/T w/C.A.P	5/32	7/16	1/32	15/64	Index
1965	361, 383 Eng.—A/T	5/32	7/16	1/16	15/64	1 Rich
	—M/T	5/32	11/32	1/16	15/64	1 Rich
1964-60	361, 383 Eng.	5/32	7/16	3/32	15/64	1 Rich ²

GM TRUCKS—SPECIFICATION I.D.-B

1971-67	637 Eng. (8 Cyl.)	5/32	9/32- 5/16 ⁴	—	—	—
1969-62	351, 401, 478 (6 Cyl.) Exc.	5/32	9/32- 5/16 ⁴	—	—	—
	Carb. Nos. 23-131; 23-148	5/32	5/16 ⁵	—	—	—
	Carb. Nos. 23-147	5/32	1/16 ⁴	—	—	—
	Carb. Nos. 23-171	5/32	9/16- 5/16	—	—	—
1962-60	702 Eng. (12 Cyl.)	5/32 ⁶	—	—	—	—

GM TRUCKS—SPECIFICATION I.D.-D

1973-69	351, 401, 478 Eng. (6 Cyl.)	5/32	1/32- 5/16 ⁴	—	—	—
1971-70	637 Eng. (8 Cyl.)	—	—	—	—	—
1968-67	351 Eng.	5/32	9/32- 5/16 ⁴	—	—	—

FOOTNOTES:

- ¹ Carbs. with steel needle valve, set 1/8".
- ² Carb. nos. 3-188, A, B; 3-201, A; 3-208, A, set Index.
- ³ Rod in middle slot unless otherwise specified.
- ⁴ Rod in outer slot.
- ⁵ Rod in inner slot.
- ⁶ Carb. no. 23-126 follow instructions Fig. 1, Type I, and set 3/16".

ABBREVIATIONS:

- | | |
|--------|------------------------|
| A/T | Automatic Transmission |
| C.A.P. | Clean Air Package |
| Exc. | Except |
| M/T | Manual Transmission |