

FUEL SYSTEM

SERVICE INSTRUCTION WORKSHEET

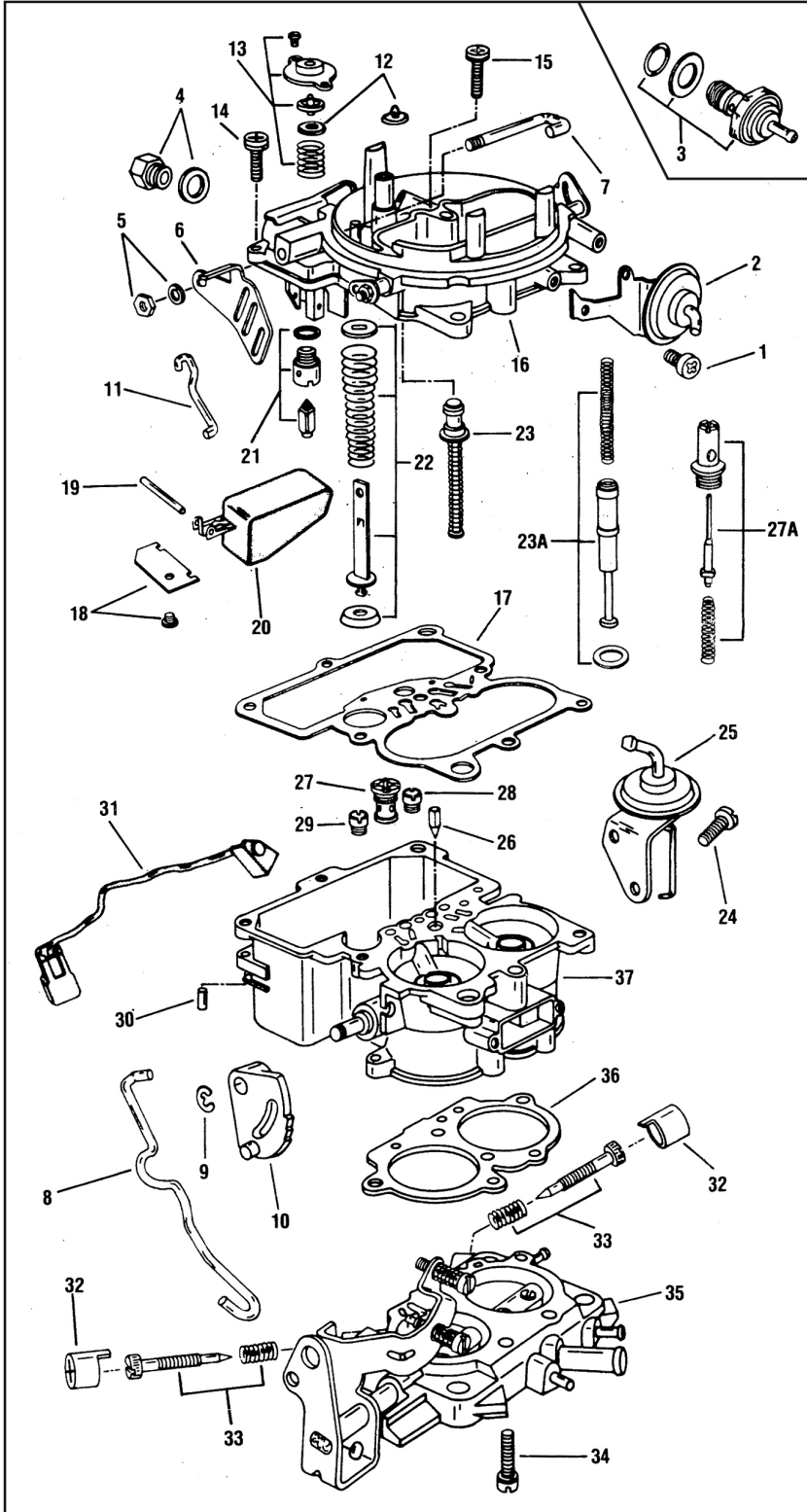
TO REPAIR

HOLLEY CARBURETOR

2 BARREL/MODELS 2210, 2245

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 shown 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 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.



REMOVAL & INSTALLATION NOTES:

1. Cover opening on intake manifold after carburetor is removed.
2. **CAUTION:** Main well tubes are not removable. Be careful not to damage tubes.
3. Do not remove or change position of idle limiter caps (32) and idle mixture adjusting needles (33) unless replacement is necessary.
4. To remove power valve piston assembly (23) & (23A), first remove staking around washer.
5. When removing main jets (28) & (29), be sure to mark their location for proper installation.
6. Install parts and components in reverse order of removal.
7. Install pump link (8) in original location unless otherwise specified.
8. When installing power valve piston assembly (23) & (23A), lightly stake casting around washer.
9. Before installing fuel pump assembly (22), flare leather cup, then soak in light oil for a few minutes.

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, choke diaphragm (2)
2. Choke diaphragm assembly
3. Valve, idle enrichment*
4. Fitting, fuel inlet
5. Nut & washer, pump lever
6. Lever, pump
7. Shaft, pump lever
8. Link, pump
9. E clip, fast idle cam
10. Cam, fast idle
11. Link, fast idle cam
12. Valve, bowl vent
13. Valve assembly, bowl vent**
14. Screw, air horn (7)
15. Screw, air horn (long)
16. Air horn assembly
17. Gasket, air horn
18. Screw & baffle, fuel bowl
19. Pin, float hinge
20. Float assembly
21. Needle & seat assembly
22. Accelerator pump assembly
23. Power valve piston assembly
- 23A. Power valve piston assembly (Model 2245)
24. Screw, throttle positioner (2)*
25. Throttle positioner assembly *
26. Needle, pump discharge
27. Power valve assembly
- 27A. Power valve assembly (Model 2245)
28. Jet, main (choke side)
29. Jet, main (pump side)
30. Pin, wire retainer
31. Stop & cable assembly
32. Cap, limiter
33. Needle & spring, idle adjusting
34. Screw, throttle body (5)
35. Throttle body assembly
36. Gasket, throttle body
37. Main body assembly

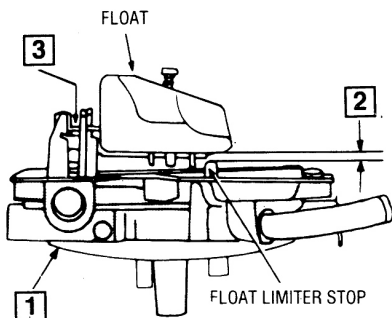
* Some Models
** Later Models

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

ADJUSTMENT DATA

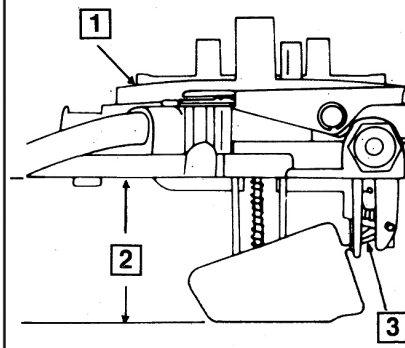
**FIG. 1
FLOAT LEVEL ADJUSTMENT**

1. INVERT AIR HORN ASSEMBLY, ALLOWING ONLY WEIGHT OF FLOAT TO REST AGAINST NEEDLE.
2. MEASURE BETWEEN TOP OF FLOAT AND FLOAT LIMITER STOP.
3. TO ADJUST, BEND FLOAT LIP.



**FIG. 2
FLOAT DROP ADJUSTMENT**

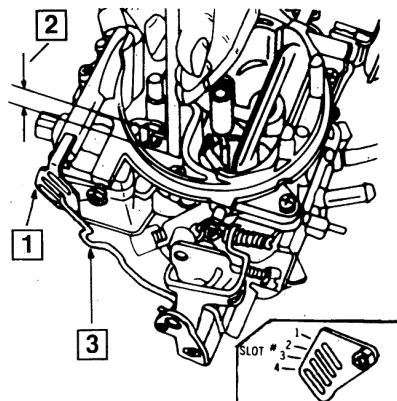
1. HOLD AIR HORN IN UPRIGHT POSITION. ALLOW FLOAT TO HANG FREELY.
2. BOTTOM SURFACE OF FLOAT MUST BE PARALLEL TO PARTING SURFACE OF AIR HORN.
3. TO ADJUST, BEND TANG ON FLOAT ARM.



**FIG. 3
ACCELERATOR PUMP**

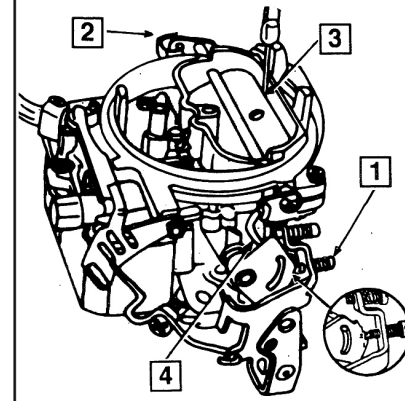
NOTE: COMPLETELY CLOSE THROTTLE VALVES.

1. PLACE PUMP CONNECTOR ROD IN SPECIFIED HOLE.
2. MEASURE DISTANCE BETWEEN TOP OF AIR HORN AND END OF PUMP ROD.
- 2A. MEASURE PUMP TRAVEL (DROP) FROM CURB IDLE TO WIDE OPEN THROTTLE POSITION.
3. TO ADJUST, BEND PUMP CONNECTOR ROD.



**FIG. 4
FAST IDLE CAM POSITION**

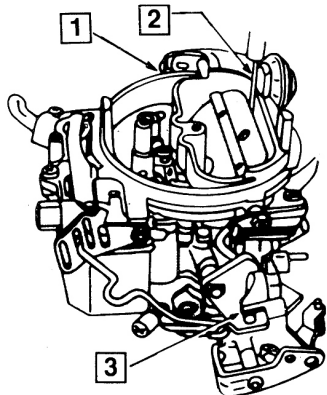
1. PLACE FAST IDLE SCREW ON SECOND HIGHEST STEP OF FAST IDLE CAM.
2. CLOSE CHOKE VALVE BY APPLYING LIGHT PRESSURE ON CHOKE LEVER.
3. MEASURE BETWEEN TOP OF CHOKE VALVE AND WALL OF AIR HORN.
4. TO ADJUST, BEND FAST IDLE CONNECTOR ROD.



**FIG. 5
CHOKE UNLOADER**

NOTE: OPEN THROTTLE VALVES TO WIDE OPEN POSITION.

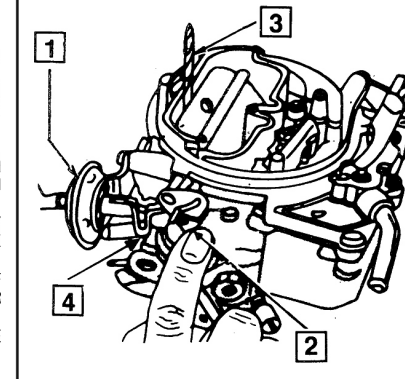
1. CLOSE CHOKE VALVE BY APPLYING LIGHT PRESSURE ON CHOKE LEVER.
2. MEASURE DISTANCE BETWEEN TOP OF CHOKE VALVE AND WALL OF AIR HORN.
3. TO ADJUST, BEND TANG.



**FIG. 6
CHOKE DIAPHRAGM SETTING**

NOTE: OPEN THROTTLE AND CLOSE CHOKE VALVE. RELEASE THROTTLE TO HOLD FAST IDLE CAM IN CLOSED CHOKE POSITION.

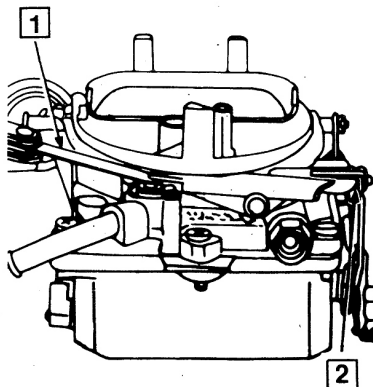
1. APPLY A MINIMUM OF 10 IN. HG. TO THE DIAPHRAGM FROM AN OUTSIDE VACUUM SOURCE.
2. CLOSE CHOKE VALVE BY APPLYING LIGHT PRESSURE ON CHOKE LEVER.
3. MEASURE BETWEEN TOP OF CHOKE VALVE AND AIR HORN WALL.
4. TO ADJUST, BEND CHOKE DIAPHRAGM ROD.



**FIG. 7
BOWL VENT**

NOTE: POSITION THROTTLE AT CURB IDLE.

1. MEASURE BETWEEN BOWL VENT VALVE LEVER AND VALVE SEAL STEM.
2. TO ADJUST, BEND TANG ON ACCELERATOR LEVER.



SPECIFICATION CHART

Year	Application	Float Level	Pump Adjust.		Fast Idle Cam	Unloader	Choke Diaphragm	Bowl Vent
			Hole #	Setting				

SPECIFICATION I.D.-C CHRYSLER MOTORS

1979-78	360 Eng.—A/T	3/16 ⁴	1	17/64 ⁶	7/64	11/64	7/64	1/32
1977-74	360, 400 Eng.—Exc. Carb. Nos. R7366; R7752; R7756	3/16 3/16 ⁴	1 2	1/4 ^{6, 8} 1/4 ^{6, 8}	7/64 7/64	11/64 11/64	5/32 ⁵ 5/32	1/64 1/64

DODGE TRUCKS

1983-79	360 Eng.	3/16	1	19/64 ⁶	7/64	11/64	7/64	1/32
1978	360 Eng.—Exc. Carb. No. R8135	3/16	2	5/16 ⁶	7/64	11/64	7/32	—
	Carb. No. R7871	3/16	1	5/16 ⁶	7/64	11/64	5/32	—
	400 Eng.	3/16	2	5/16 ⁶	7/64	11/64	1/8	—
1977	360 Eng.—M/T	3/16	1	5/16 ⁶	7/64	11/64	5/32	—
	360, 400 Eng.—A/T	3/16	2	21/64 ⁶	7/64	11/64	5/32	—
1976-75	360, 400 Eng.	3/16	1	5/16 ⁶	7/64	11/64	5/32	—
1974-73	360, 400 Eng.	3/16	1 ⁹	1/4 ⁶	7/64	11/64	5/32	1/64
1972	400 Eng.	3/16	1	19/32 ¹	7/64	11/64	7/64	1/64
1972-71	360 Eng.	3/16	3	9/16 ⁷	7/64	11/64	9/64	1/64

I.H.C. TRUCKS

1981	345 Eng.—Fed.—A/T	3/16	1	—	7/64	15/64	1/8	—
1980-78	304 Eng.—Carb. No. R8790	3/16	1	45/64 ⁷	7/64	15/64	1/8	—
	—Carb. No. R7773	3/16	1	45/64 ⁷	7/64	11/64	7/64	1/32

SPECIFICATION I.D.-D BUICK

1972-70	350 Eng.—All Trans.	3/16	2	—	7/64	11/64	5/32	5/64
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CHEVROLET, PONTIAC

1973-67	327, 350, 396, 400 Eng. Carb. No. R6516	3/16	2	—	7/64	11/64	5/32	—
	R6783	3/16	2	—	7/64	11/64	—	—
	R6814	3/16	2	—	7/64	11/64	3/64	—
	R7056	3/16	1	—	7/64	11/64	3/64	—

CHRYSLER MOTORS

1974	360 Eng.—Australia	3/16	3	1/4 ⁶	7/64	11/64	9/64	5/64
1973	360, 400 Eng.	3/16	3	1/4 ⁶	7/64	11/64	5/32	1/64
1972	360 Eng.—Australia	3/16	3	9/16 ⁷	7/64	11/64	1/8	5/64
1972-71	360 Eng.—M.T.	3/16	1	9/16 ⁷	7/64	11/64	9/64	1/64
	—A.T.	3/16	3 ¹	9/16 ⁷	7/64	11/64	1/8	1/64
1972	400 Eng.	3/16	1	19/32 ⁷	7/64	11/64	7/64	1/64
1972-63	361, 383 Eng.—Carb. No. R4371-2	3/16	3	—	7/64	11/64	9/64	5/64
	Carb. Nos. R4373-3; R6424	3/16	3	—	7/64	11/64	7/64	1/64 ²
	R4785, -1	3/16	2	—	7/64	11/64	5/32	1/64 ³

DODGE TRUCKS

1973	360, 400 Eng.—Exc. Carb. Nos. R6484, -1	3/16 3/16	3 3	1/4 ⁶ 1/4 ⁶	7/64 7/64	11/64 1/4	5/32 5/32	1/64 1/64
	400 Eng.	3/16	1	19/32 ⁷	7/64	11/64	7/64	1/64
1972-71	360 Eng.—M/T	3/16	1	9/16 ⁷	7/64	11/64	9/64	1/64 ³
	—A/T	3/16	3 ¹	9/16 ⁷	7/64	11/64	1/8	1/64 ³

I.H.C. TRUCKS

1978-74	304, 345 Eng.	3/16	1	45/64 ⁷	7/64	7/32	9/64 ¹⁰	1/64
1976-73	304, 345 Eng.—Carb. Nos. R6620, -1, -2	3/16	1	45/64 ⁷	7/64	7/32	7/64	—
	—Carb. Nos. R6443, -1	3/16	2	45/64 ⁷	7/64	7/32	9/64	1/64
	—Carb. No. R6776	3/16	1	45/64 ⁷	7/64	7/32	9/64	1/64
	401 Eng.—Carb. Nos. R6674, -1, -2	3/16	1	45/64 ⁷	7/64	7/32	11/64	1/64

SPECIFICATION I.D.-E BUICK, CHEVROLET, & PONTIAC

1976-75	350 Eng.—Carb. Model 2211 Carb. Nos. R7750; R7856*	3/16	2	—	—	13/64	3/16	—
	Carb. No. R8354**	3/16	2	—	—	13/64	1/8	—
1974-73	350, 400 Eng.—Carb. Model 2210 Carb. No. R7669	3/16	1	—	7/64	11/64	5/64	—
	Carb. No. R7666	5/32	1	—	7/64	11/64	3/32	—
1972-68	350, 400 Eng.—Carb. Nos. R7667, 68	3/16	2	—	7/64	11/64	1/16 ³	—
	327, 350, 396, 400 Eng. Carb. Nos. R7664, 65	5/32	2	—	7/64	11/64	3/3	—

SPECIFICATION CHART (Cont'd)

Year	Application	Float Level	Pump Adjust.		Fast Idle Cam	Unloader	Choke Diaphragm	Bowl Vent
			Hole #	Setting				

SPECIFICATION I.D. -E (Cont'd) GM TRUCKS

1974	350 Eng.	3/16	1	—	7/64	11/64	3/32	—
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ABBREVIATIONS:

A.T. Automatic Transmission
 Exc. Except
 M.T. Manual Transmission
 N.R. Notch Rich

FOOTNOTES:

¹ California models set hole # 1.
² Carb. No. R6424 set 1/32.
³ Carb. Nos. R4785; R6273, -1; R6274, -1; R7668 set 5/64.
⁴ Carb. Nos. R8445; R7756 set 13/64.
⁵ Carb. Nos. R7671 set 7/64; R8266 set 1/8.
⁶ See step 2A, Fig. 3.
⁷ See step 2, Fig. 3.
⁸ 1976, 77 models set 5/16.
⁹ 1973 models set hole # 3.
¹⁰ Carb. no. R7133 set 5/32.
 * Choke on Index.
 ** Choke on 1NR.