

1975-79 FUEL SYSTEMS Holley 2280 2-Barrel

1978-79 Chrysler Corp. CARBURETOR APPLICATION

CHRYSLER CORP. CARBURETOR NO.

| Application | Man. Trans. | Auto. Trans. |
|-----------------------------------|-------------|--------------|
| 1978 Federal & Canada | | R-7990A |
| 1979 Federal | | R-8448A |

CARBURETOR IDENTIFICATION

Part number is stamped in front main body flange under choke vacuum diaphragm.

DESCRIPTION

The Holley model 2280 carburetor uses 4 basic fuel metering circuits: a basic idle system, accelerator pump, main metering and power enrichment circuits. A Throttle Position Transducer (TPT) is standard.

ADJUSTMENTS

NOTE: For all on-vehicle adjustments not covered in this article, see appropriate **TUNE-UP PROCEDURES** article.

FLOAT LEVEL

1) With air horn removed, invert main body. Catch accelerator pump check ball and weight if not previously removed. Hold float hinge pin retainer in place with finger. See Fig. 1.

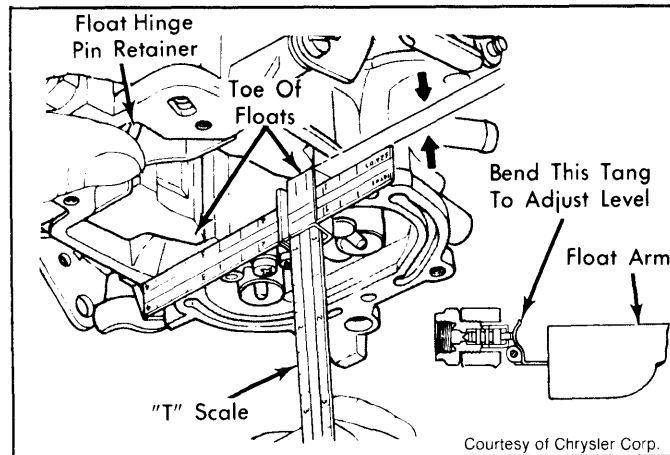


Fig. 1: Adjusting Float Level

2) Place a "T" scale across air horn gasket surface and toes of both floats. To adjust, bend float tang. Make sure floats are correctly aligned with walls of float bowl and that they move freely through full travel.

NOTE: Make sure accelerator pump check ball and weight are reinstalled if removed.

ACCELERATOR PUMP

1) Remove bowl valve vent cover and spring. Use care not to dislodge or lose vent valve retainer. Install accelerator pump rod in inner hole. See Fig. 2.

2) Place throttle lever in curb idle position. Position a straightedge across bowl vent cover gasket surface above accelerator pump lever.

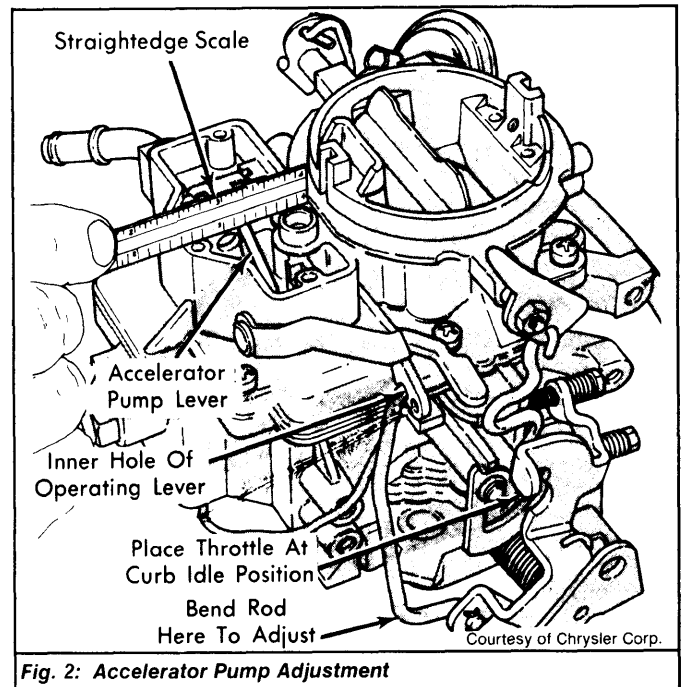


Fig. 2: Accelerator Pump Adjustment

3) Pump lever should just be contacting straight edge. See Fig. 2. To adjust, bend accelerator pump rod. Install vent valve spring and cover.

NOTE: If accelerator pump adjustment is made, bowl vent and mechanical power valve adjustment must be performed.

CHOKE UNLOADER

1) Hold throttle valves in wide open position. Hold choke valve toward closed choke position by applying light closing pressure to choke lever. See Fig. 3.

2) Measure choke unloader specified clearance between upper edge of choke valve and air horn wall. Measurement can be checked using a specified drill or pin gauge. To adjust, bend choke unloader tang.

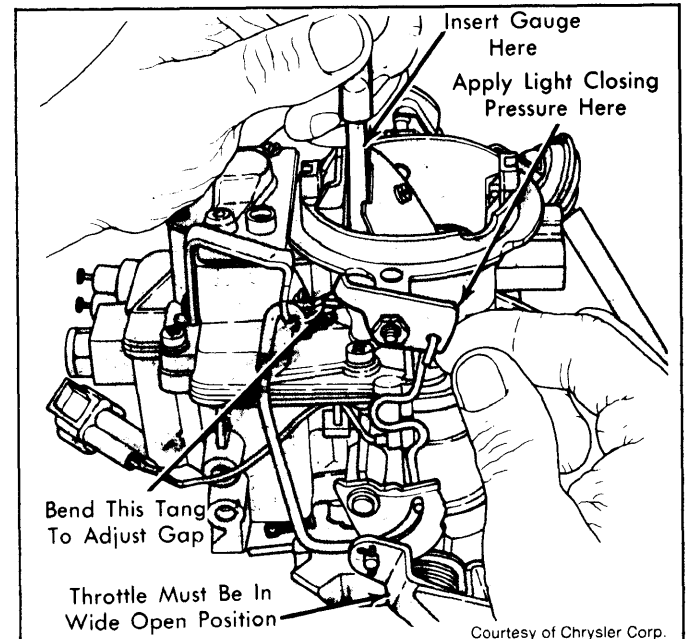


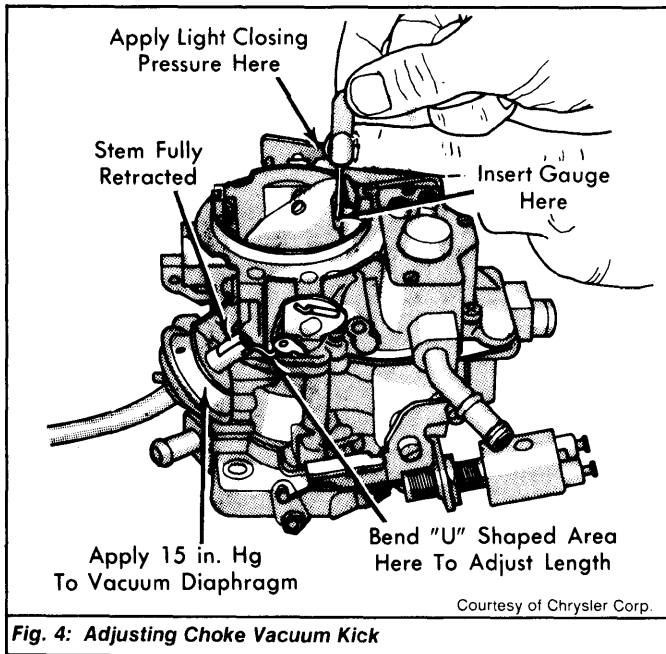
Fig. 3: Adjusting Choke Unloader

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CHOKE VACUUM KICK

- 1) Open throttle then close throttle. Release throttle to trap fast idle cam at closed throttle position. See Fig. 4.
- 2) Apply outside vacuum source of 15 in. Hg to activate pull-down motor. Apply enough force to close choke valve with finger without distorting linkage.
- 3) Measure choke vacuum kick specified clearance between upper edge of choke valve and air horn wall.



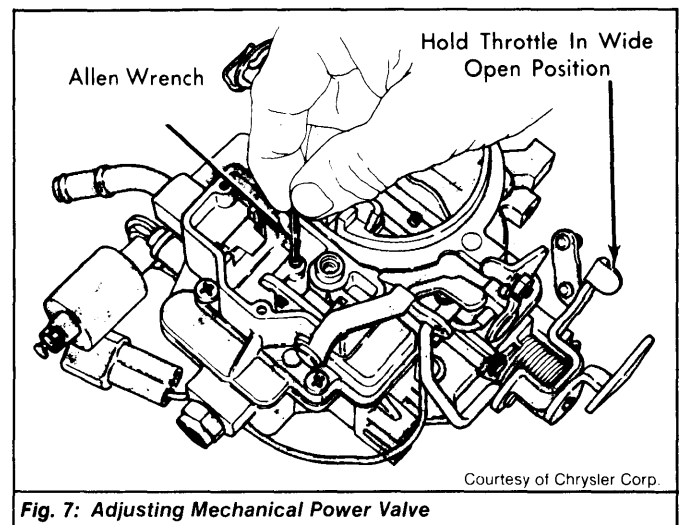
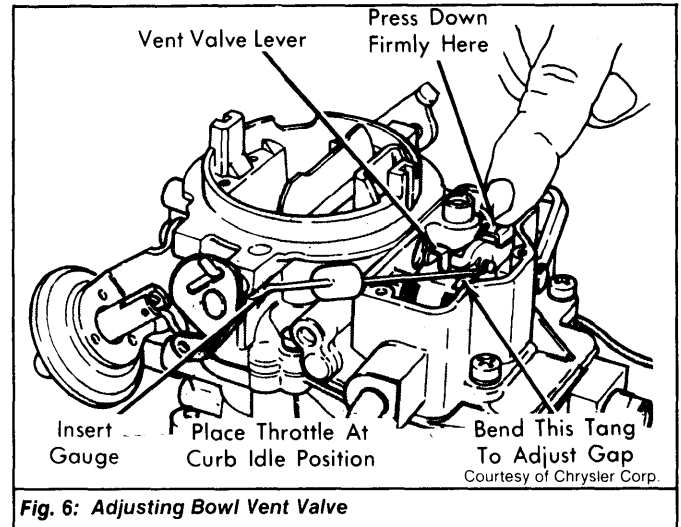
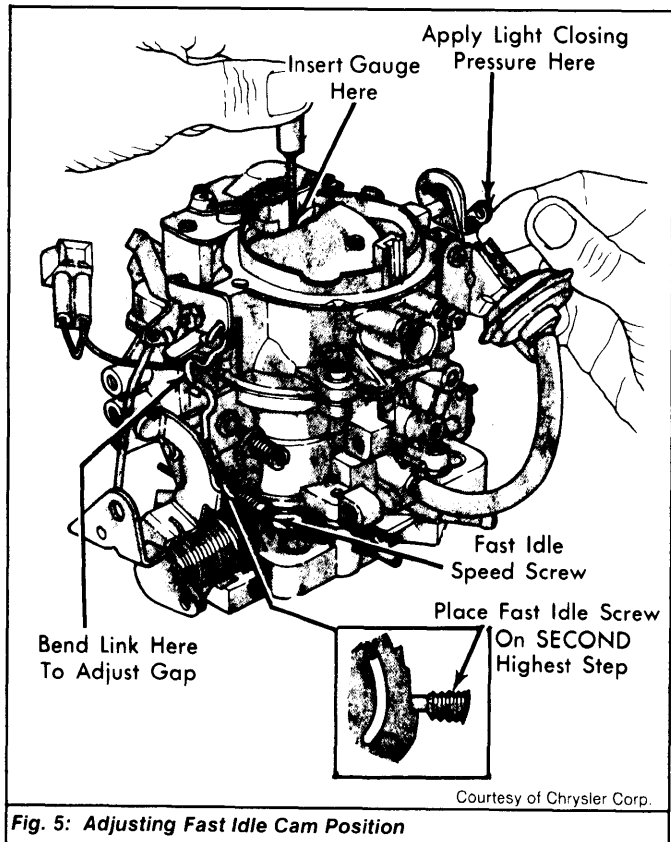
- 4) To adjust, bend vacuum diaphragm rod at existing "U" bend to obtain specified clearance. Check all linkage for freedom of movement. Install vacuum hose on diaphragm.

FAST IDLE CAM POSITION

- 1) Position fast idle speed screw on second step of fast idle cam against shoulder of highest step. Hold choke valve toward closed position with light finger pressure.
- 2) Measure fast idle cam specified clearance between upper edge of choke valve and air horn wall. Measurement can be checked using a specified drill or pin gauge.
- 3) To adjust, bend fast idle cam connecting rod at existing bend. See Fig. 5.

BOWL VENT

- 1) Remove bowl vent cover, gasket and spring. Ensure not to lose vent valve lever retainer. Place throttle at curb idle position.
- 2) Press down on vent valve at point where spring seats. Measure vent valve specified clearance between vent valve tang and vent valve lever. See Fig. 6.
- 3) To adjust, bend end of vent valve lever up or down until specified clearance is obtained. Install vent valve spring and cover. Install spring, gasket and cover.



MECHANICAL POWER VALVE

- 1) Remove bowl vent cover, gasket and spring. Remove vent valve lever and pivot pin. Hold throttle lever in wide open position.

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2) Insert a 5/32" Allen wrench in mechanical power valve adjustment screw. Push down on screw and release to determine if there is any clearance. If so, turn screw clockwise until there is no clearance.
 3) Now turn screw one full turn. Install vent valve lever, pivot pin and retainer. Install spring, gasket and cover.

THROTTLE POSITION TRANSDUCER

1) Disconnect wiring from transducer. Loosen lock nut. Insert gauge tool (C-4522) between transducer and bracket. If tool not available, measure between outer portion of transducer and mounting bracket.

2) Adjust Red coded transducer to .680-.690", Black coded transducer to .535-.545" or Blue coded transducer to .235-.245". Remove gauge tool and tighten lock nut.

OVERHAUL

CARBURETOR

Refer to Fig. 8. for disassembly and reassembly. Ensure all carburetor passages air clean. Use new gaskets on reassembly.

| 1978 CARBURETOR ADJUSTMENT SPECIFICATIONS | | | | | | | | |
|---|-------------------------|------|---------------------|-----------------|-----------------------|---------------------|------------------------|---------------------|
| Holley Carb. No. | Idle Speed (Engine RPM) | | Accel. Pump Setting | Float Setting ① | Fast Idle Cam Setting | Vacuum Kick Setting | Choke Unloader Setting | Bowl Vent Clearance |
| | Hot | Fast | | | | | | |
| R-7990A | ② | 1600 | ③ | 5/16" | .070" | .150" | .310" | .030" |

① - $\pm 1/32$ ".

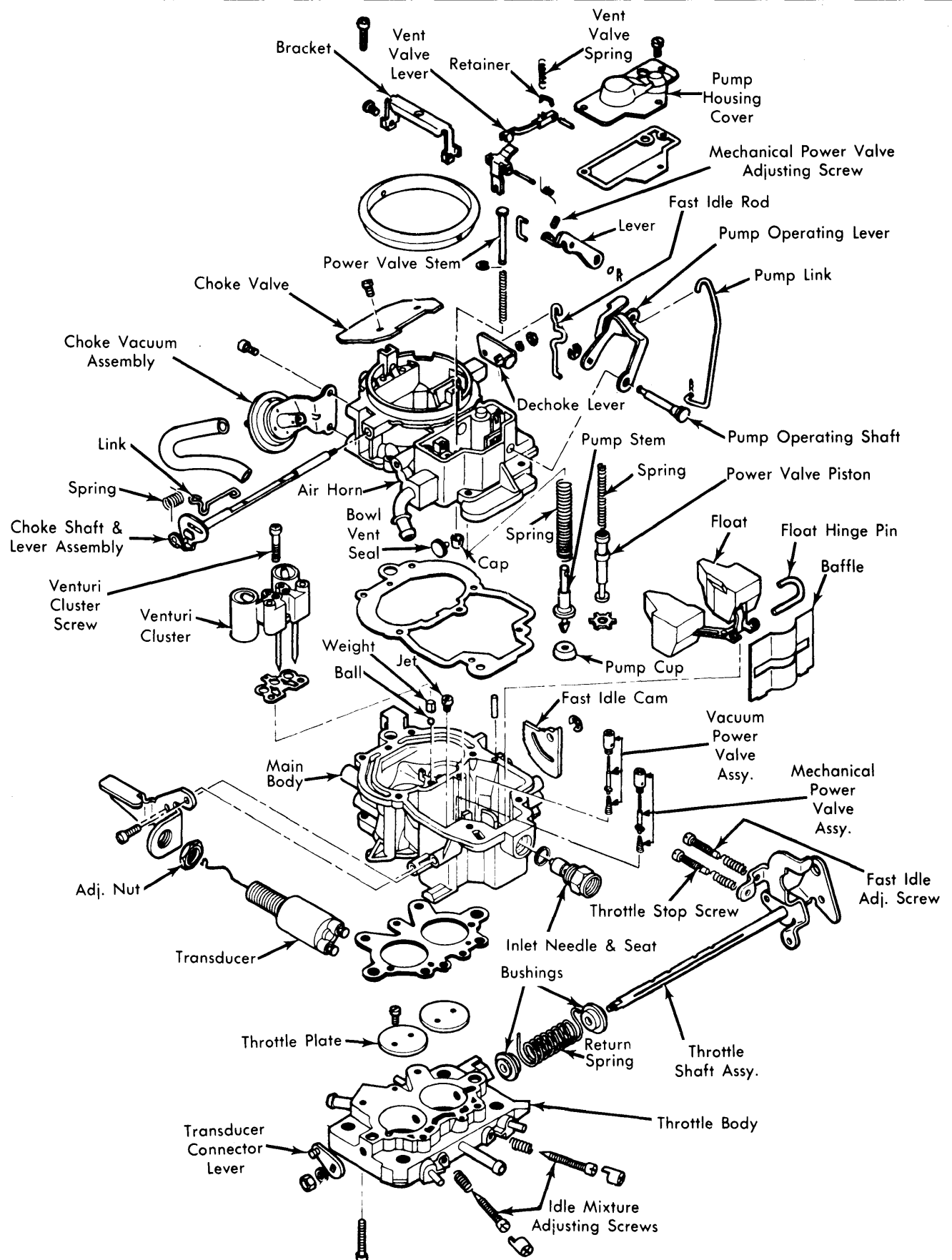
② - See Emission Control Tune-Up Decal.

③ - Flush with top of bowl vent casting.

| 1979 CARBURETOR ADJUSTMENT SPECIFICATIONS | | | | | | | |
|---|---------------------|---------------------|------------------------|-------------------------|-----------------------|-------------------------|------------------------------|
| Application | Float Level Setting | Accel. Pump Setting | Choke Unloader Setting | Choke Vac. Kick Setting | Fast Idle Cam Setting | Bowl Vent Valve Setting | Throttle Position Transducer |
| R-8448A | 5/16" | Flush① | .310" | .150" | .070" | .030" | 11/16" |

① - See adjustment procedure.

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Courtesy of Chrysler Corp.

Fig. 8: Exploded View of Holley 2280 2-Barrel Carburetor