1975-79 FUEL SYSTEMS
Holley 2245 2-Barrel

CARBURETOR APPLICATION

CHRYSLER CORP. CARBURETOR NO.

Application	Man. Trans.	Part No. Auto. Trans.
1975		
360" V8		
Federal		R-7226A
400" V8		
Federal		R-7027A
1976		
360" V8		
Federal		R-7364A, R-7661A
400" V8		
Federal		R-7366A
1977 (360" V8)		
Federal & Canada		R-7671A
1978 (360" V8)		
Federal & Canada		R-7991A, R-8326A
1979 (360" V8)		
Federal		R-8450A

CARBURETOR IDENTIFICATION

Part number is stamped on fuel bowl.

DESCRIPTION

The Holley model 2245 carburetor uses 5 basic fuel metering circuits: a basic idle system, idle enrichment system, accelerator pump, main metering and power enrichment circuits. A Throttle Position Transducer (TPT) is used on some models.

ADJUSTMENTS

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

FLOAT LEVEL

With air horn removed, invert air horn. Allow weight of floats to gently seat needle valve. Measure clearance between top of float and float stops. *See Fig. 1.* Hold gauge level when checking clearance. To adjust, bend float tang.

FLOAT DROP

With air horn removed, hold in upright position. Allow floats to hang. Adjust float tang. Bottom edge of float should be parallel with gasket surface of air horn. *See Fig. 2.*

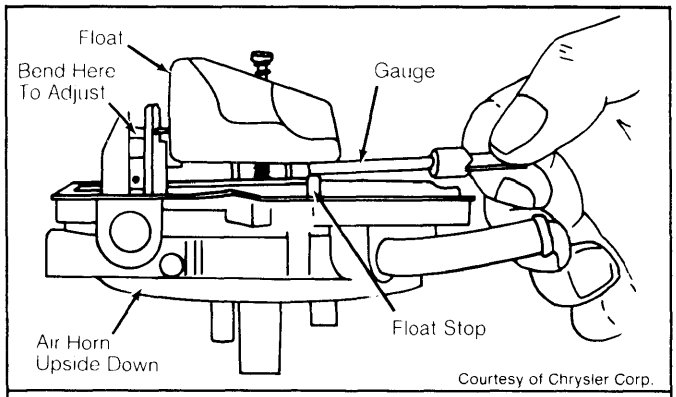

Fig. 1: Adjusting Float Level

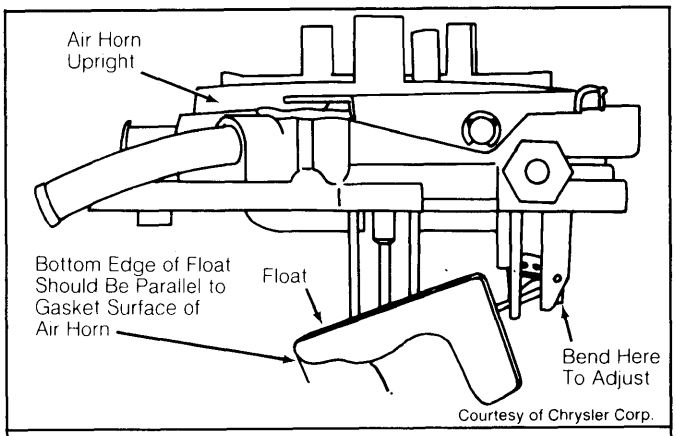

Fig. 2: Adjusting Float Drop

ACCELERATOR PUMP

1) Place throttle lever in curb idle position. Ensure accelerator pump rod is in No. 1 slot in throttle lever. *See Fig. 3.*

2) Using a scale, measure drop (travel) of accelerator pump plunger from curb idle toward open throttle position. If travel is not to specification, bend operating rod. *See Fig. 3.*

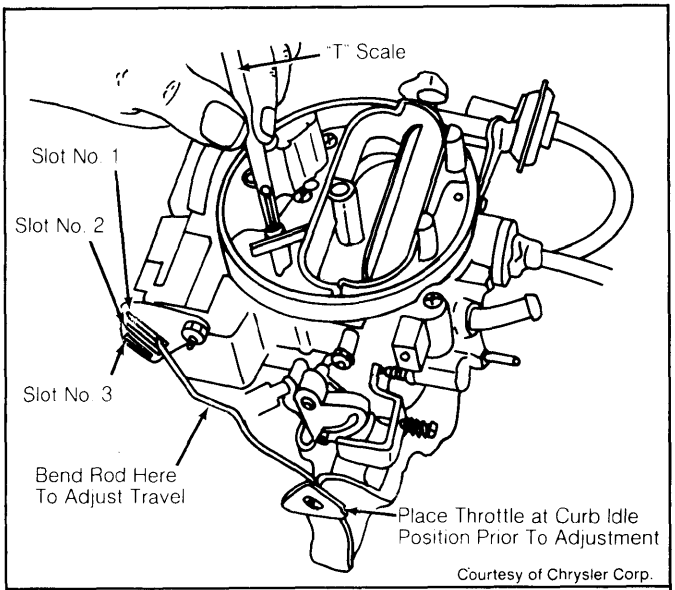

Fig. 3: Adjusting Accelerator Pump Plunger

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 connector rod at existing bend. *See Fig. 4.*

CHOKE VACUUM KICK

1) Open throttle then close throttle. Release throttle to trap fast idle cam at closed throttle position. *See Fig. 5.*

2) Apply outside vacuum source of 15 in. Hg to activate pulldown motor. Apply enough forced 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.

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Holley 2245 2-Barrel (Cont.)

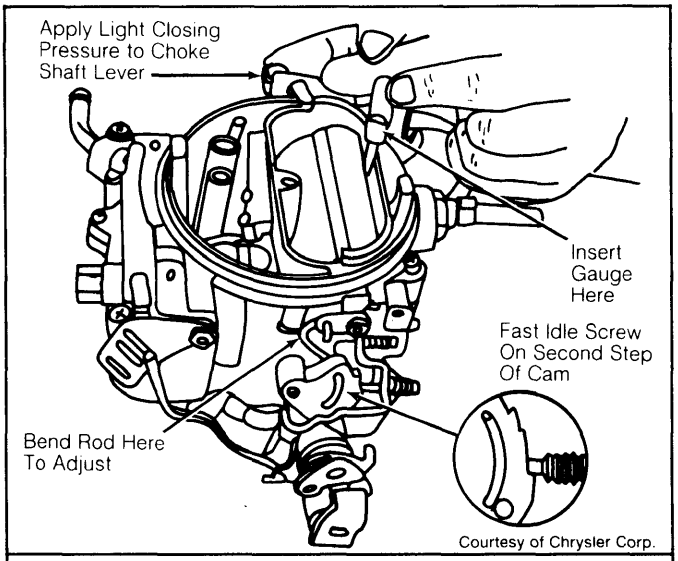

Fig. 4: Adjusting Fast Idle Cam Position

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.

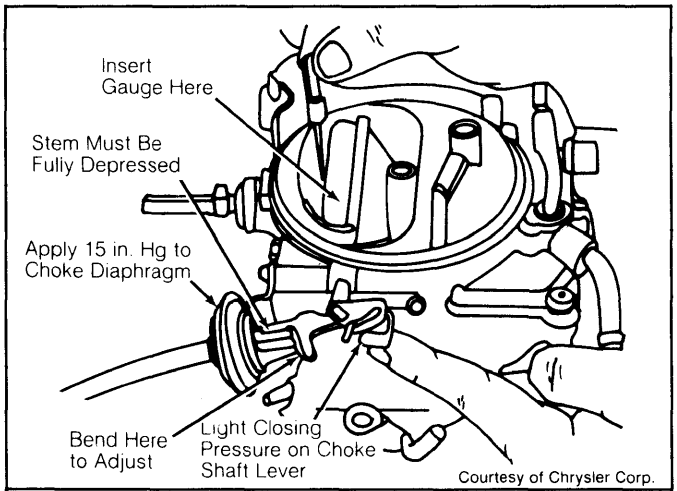

Fig. 5: Adjusting Choke Vacuum Kick

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. 6.*

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.

BOWL VENT

1) Place throttle at curb idle position. Measure bowl vent valve specified clearance between vent valve plunger and operating rod.

2) To adjust, bend tang on accelerator pump lever to change arc of contact with throttle lever until correct clearance is obtained. *See Fig. 7.*

IDLE ENRICHMENT VALVE

1) With engine at normal operting temperature, remove air cleaner. Connect a jumper wire from carburetor idle stop switch to ground. Connect a tachometer to engine.

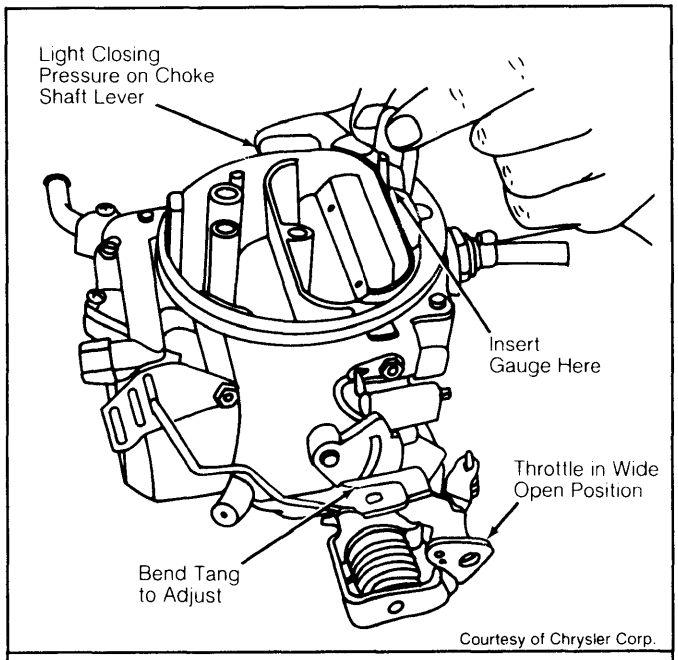

Fig. 6: Adjusting Choke Unloader

2) Disconnect hose at idle enrichment valve. Start engine and place fast idle speed screw on lowest step of fast idle cam. Apply 3 to 15 in. Hg vacuum to idle enrichment valve.

3) If engine speed is controllable with vacuum, valve is working correctly. If not, block air inlet and note engine speed. If speed now changes, diaphragm is defective. If engine does not respond, air valve is stuck closed.

4) Clean valve and repeat steps **2)** and **3)**. If speed still does not respond, replace idle enrichment valve.

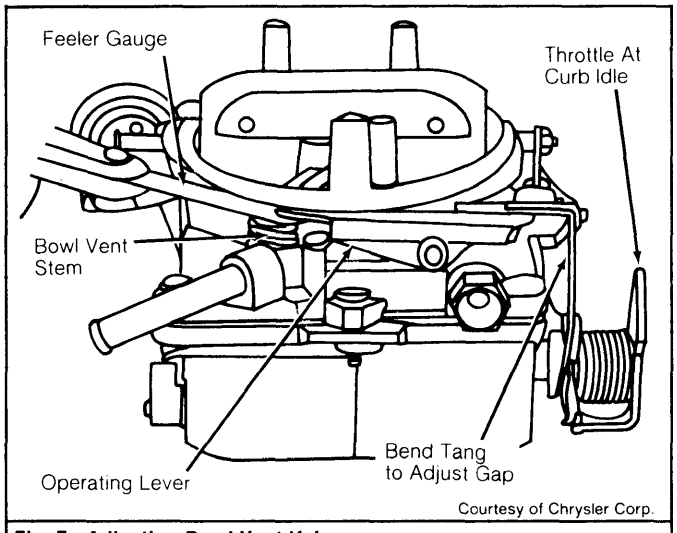

Fig. 7: Adjusting Bowl Vent Valve

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.

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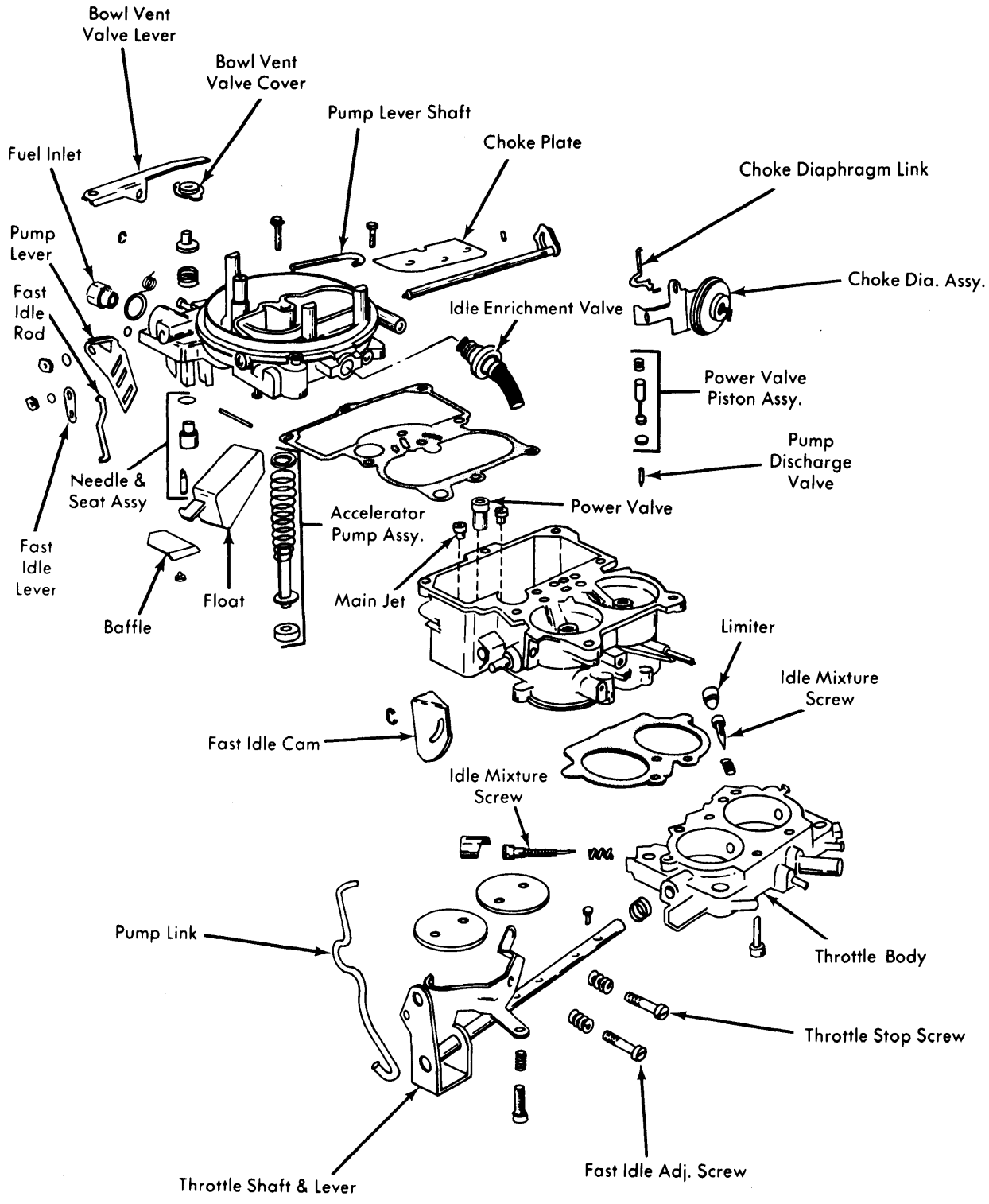

Courtesy of Chrysler Corp.

Fig. 8: Exploded View of Holley 2245 2-Barrel Carburetor

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Holley 2245 2-Barrel (Cont.)

1975 CARBURETOR ADJUSTMENT SPECIFICATIONS

Holley Carb. No.	Idle Speed (Engine RPM)		Accel. Pump Setting	Float Setting	Fast Idle Cam Setting	Vacuum Kick Setting	Choke Unloader Setting
	Hot	Fast					
R-7226A	750	1600	.25″	3/16″	.110″	.150″	.170″
R-7027A	750	1600	.25″	3/16″	.110″	.150″	.170″

1976 CARBURETOR ADJUSTMENT SPECIFICATIONS

Holley Carb. No.	Idle Speed (Engine RPM)		Accel. Pump Setting	Float Setting	Fast Idle Cam Setting	Vacuum Kick Setting	Choke Unloader Setting
	Hot	Fast					
R-7364A	700	1600	17/64″ ①	3/16″	.110″	.150″	.170″
R-7366A	700	1600	17/64″ ①	3/16″	.110″	.150″	.170″
R-7661A	700	1600	17/64″ ①	3/16″	.110″	.150″	.170″

① — From closed throttle position — 5/16″.

1977 CARBURETOR ADJUSTMENT SPECIFICATIONS

Holley Carb. No.	Idle Speed (Engine RPM)		Accel. Pump Setting	Float Setting	Fast Idle Cam Setting	Vacuum Kick Setting	Choke Unloader Setting
	Hot	Fast					
R-7176A	700	1700	17/64″ ①	3/16″ ②	.110″	.110″	.170″

① — From closed throttle position — 5/16″
② — Plus or minus 1/32″

1978 CARBURETOR ADJUSTMENT SPECIFICATIONS

Holley Carb. No.	Idle Speed (Engine RPM)		Accel. Pump Setting	Float Setting	Fast Idle Cam Setting	Vacuum Kick Setting	Choke Unloader Setting	Bowl Vent Clearance
	Hot	Fast						
R-7991A	①	1600	17/64″ ②	3/16″ ③	.110″	.110″	.170″	.025″
R-8326A	①	1600	17/64″ ②	3/16″ ③	.110″	.110″	.170″	.025″

① — See Emission Control Tune-Up Decal.
② — Slot #1 of pump arm.
③ — ±1/32″.

1979 CARBURETOR ADJUSTMENT SPECIFICATIONS

Application	Float Level Setting	Float Drop Setting	Accel. Pump Setting	Fast Idle Cam Setting	Choke Vacuum Kick Setting	Choke Unloader Setting	Bowl Vent Valve Setting
R-8450A	3/16″	Parallel①	17/64″	.110″	.110″	.170″	.025″

① — See adjustment procedure.