

Holley Carburetor Model 2300-C Instruction Sheet 199R8338

TYPICAL VIEW

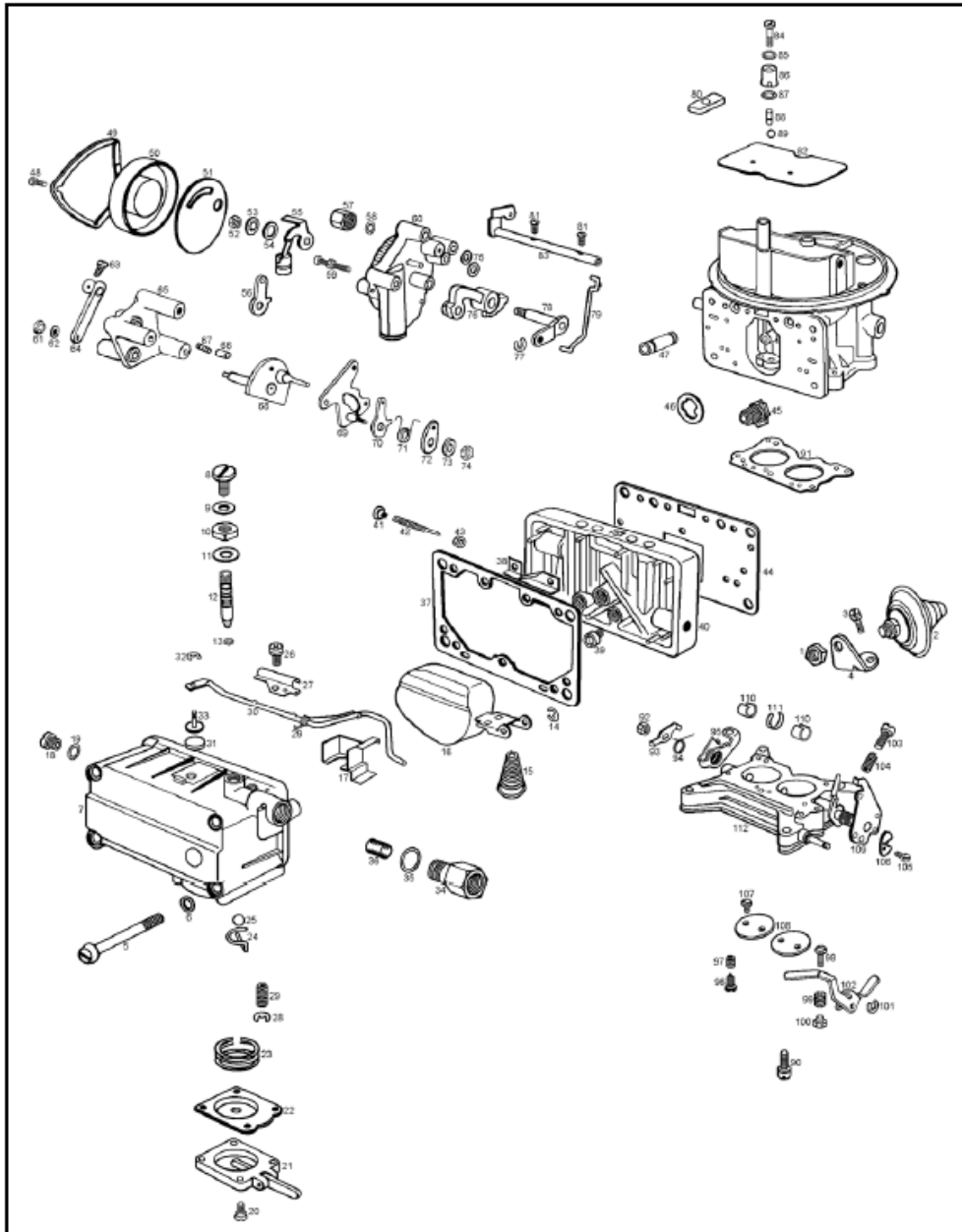
The exploded view shown is typical of the model carburetor this kit will service. The view may differ slightly from the actual carburetor being renewed.

This kit may contain more parts than are actually required to service a given carburetor. When similar gaskets or parts are included in the kit, compare with the original parts.

DISASSEMBLY:

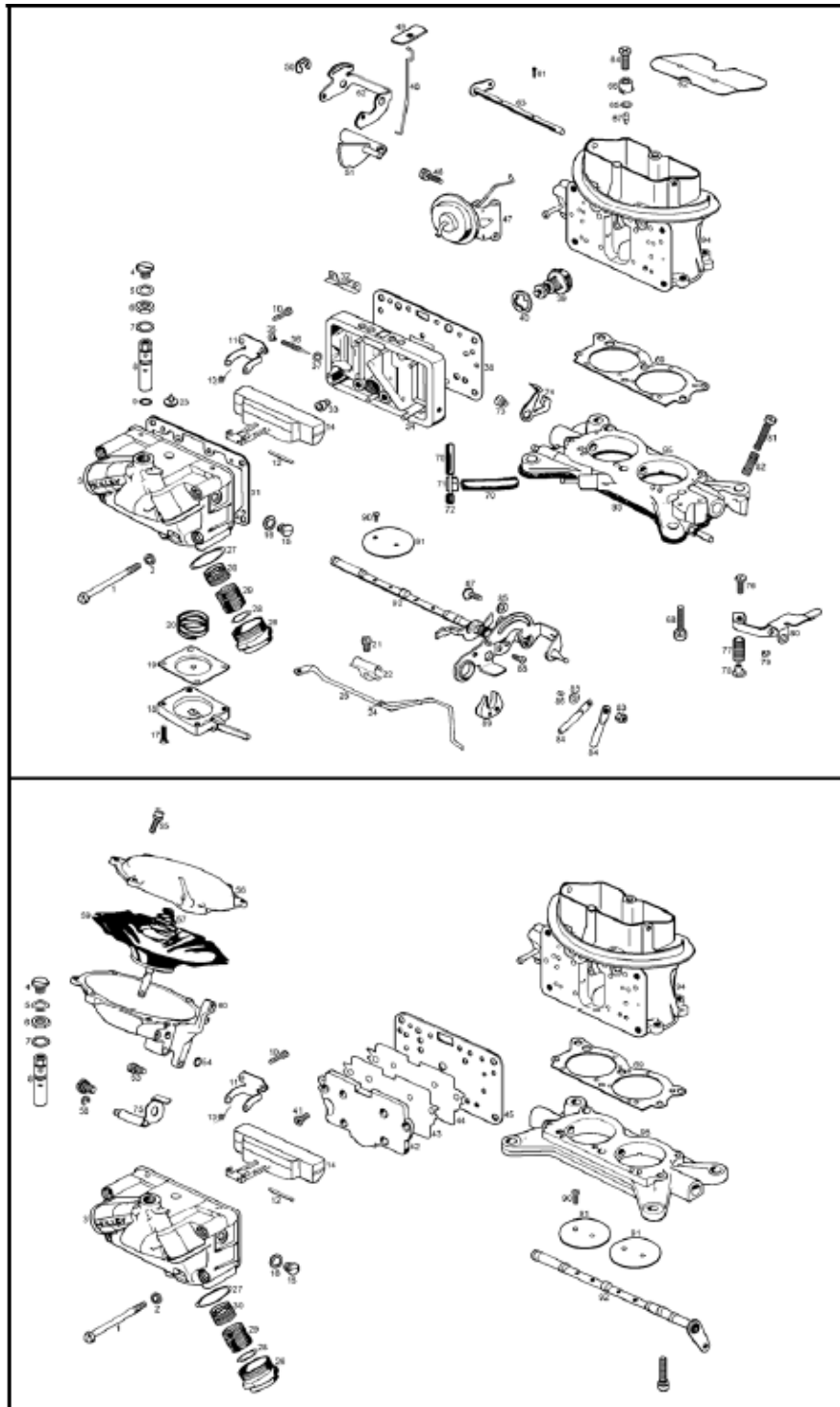
Rest the carburetor on a repair stand to avoid damage to the throttle plates during the renew procedures. Use the exploded view as a guide, and follow the numerical sequence in general to disassemble the unit far enough to permit cleaning and inspection. Do not remove the throttle plates or shaft. Idle limiter: turn the idle limiter caps to its leanest position and remove the cap. Observe and record the initial position of the needle slot. Turn the idle needs until lightly seated, recording the number of turns required to seat the needles. This procedure is necessary to reinstall the idle needles after renewing.

Use care not to damage the idle adjusting needles when removing the idle limiter caps.



| Ref. No. | Description | Ref. No. | Description |
|----------|-------------------------------------|----------|---------------------------------------|
| 1 | Dashpot Locknut | 2 | Dashpot Assembly |
| 3 | Dashpot Bracket Screw | 4 | Dashpot Bracket |
| 5 | Fuel Bowl Screw | 6 | Bowl Screw Gasket |
| 7 | Fuel Bowl Assembly | 8 | Fuel Valve Seat Lockscrew |
| 9 | Lockscrew Gasket | 10 | Fuel Valve Seat Adjustment Nut |
| 11 | Adjustment Nut Gasket | 12 | Fuel Valve Assembly |
| 13 | Fuel Valve O-Ring Seal | 14 | Float Retainer |
| 15 | Float Spring | 16 | Float Assembly |
| 17 | Fuel Inlet Baffle | 18 | Fuel Inlet Check Plug |
| 19 | Check Plug Gasket | 20 | Accelerator Pump Cover Screw |
| 21 | Accelerator Pump Cover | 22 | Pump Diaphragm |
| 23 | Diaphragm Return Spring | 24 | Check Ball Retainer |
| 25 | Check Ball | 26 | Vent Rod Clamp Screw |
| 27 | Vent Rod Clamp | 28 | Vent Rod Spring Retainer |
| 29 | Vent Rod Spring | 30 | Vent Rod |
| 31 | Vent Cap | 32 | Vent Valve Retainer |
| 33 | Vent Valve | 34 | Fuel Inlet Fitting |
| 35 | Inlet Fitting Gasket | 36 | Inlet Filter Screen |
| 37 | Fuel Bowl Gasket | 38 | Metering Body Vent Baffle |
| 39 | Main Metering Jet | 40 | metering Body |
| 41 | Idle Limiter Cap | 42 | Idle Needle |
| 43 | Idle Needle Seal | 44 | Metering Body Gasket |
| 45 | Power Valve | 46 | Power Valve Gasket |
| 47 | Pump Transfer Tube | 48 | Thermostat Housing Clamp Screw |
| 49 | Thermostat Housing Clamp | 50 | Thermostat Housing Assembly |
| 51 | Thermostat Housing Gasket | 52 | Thermostat Shaft Nut |
| 53 | Shaft Nut Lockwasher | 54 | Spacer |
| 55 | Choke Thermostat Lever and Assembly | 56 | Choke Thermostat Lever |
| 57 | Heat Tube Nut | 58 | Heat Tube Screen |
| 59 | Choke Housing Screw | 60 | Choke Housing Assembly |
| 61 | Control Lever Nut | 62 | Lockwasher |
| 63 | Swivel Screw | 64 | Choke Lever & Swivel Assembly |
| 65 | Fast Idle Cam Plate | 66 | Fast Idle Cam Plunger |
| 67 | Plunger Spring | 68 | Fast Idle Cam & Shaft Assembly |
| 69 | Back-up Plate & Stud Assembly | 70 | Choke Rod Lever & Bushing Assembly |
| 71 | Choke Spring | 72 | Spring Washer |
| 73 | Back-up Plate Stud Nut Lockwasher | 74 | Stud Nut |
| 75 | Choke Housing Gasket | 76 | Fast Idle Cam |
| 77 | Choke Link Retainer | 78 | Choke Housing Shaft & Lever |
| 79 | Choke Link | 80 | Choke Link Seal |
| 81 | Choke Plate Screw | 82 | Choke Plate |
| 83 | Choke Shaft and Lever | 84 | Pump Discharge Nozzle Screw |
| 85 | Discharge Nozzle Gasket | 86 | Pump Discharge Nozzle |
| 87 | Discharge Nozzle Gasket | 88 | Pump Discharge Weight |
| 89 | Pump Discharge Ball | 90 | Throttle Body to Main Body Screw |
| 91 | Throttle Body Gasket | 92 | Fast Idle Cam Lever Screw |
| 93 | Fast Idle Pick-up Lever | 94 | Fast Idle Cam Lever Spring |
| 95 | Fast Idle Cam Lever | 96 | Fast Idle Cam Lever Screw |
| 97 | Lever Screw Spring | 98 | Pump Operating Lever Adjustment Screw |
| 99 | Adjustment Screw Spring | 100 | Adjustment Screw Nut |
| 101 | Pump Operating Lever Retainer | 102 | Pump Operating Lever |
| 103 | Throttle Stop Screw | 104 | Stop Screw Spring |
| 105 | Pump Cam Lock Screw | 106 | Pump Cam |
| 107 | Throttle Plate Screw | 108 | Throttle Plate |
| 109 | Throttle Shaft & Lever | 110 | Throttle Shaft Bearing |
| 111 | Throttle Shaft Bearing - Center | 112 | Flange Gasket |

TYPICAL VIEW MODEL 2300 – 3 X 2 BBL



| Ref. No. | Description | Ref. No. | Description |
|----------|--------------------------------|----------|---------------------------------------|
| 1 | Fuel Bowl Screw | 2 | Bowl Screw Gasket |
| 3 | Fuel Bowl Assembly | 4 | Fuel Valve Seat Lock Screw |
| 5 | Lock Screw Gasket | 6 | Fuel Valve Seat Adjustment Nut |
| 7 | Adjustment Nut Gasket | 8 | Fuel Valve Assembly |
| 9 | Fuel Valve O-Ring Seal | 10 | Float Shaft Retainer Screw |
| 11 | Float Shaft Retainer | 12 | Float Lever Shaft |
| 13 | Float Spring | 14 | Float Assembly |
| 15 | Fuel Level Check Plug | 16 | Check Plug Gasket |
| 17 | Accelerator Pump Cover Screw | 18 | Accelerator Pump Cover |
| 19 | Accelerator Pump Diaphragm | 20 | Diaphragm Return Spring |
| 21 | Vent Rod Clamp Screw | 22 | Vent Rod Clamp |
| 23 | Vent Valve | 24 | Vent Rod Spring |
| 25 | Vent Rod | 26 | Fuel Inlet Fitting |
| 27 | Inlet Fitting Gasket | 28 | Fuel Filter Gasket |
| 29 | Fuel Filter | 30 | Fuel Filter Spring |
| 31 | Fuel Bowl Gasket | 32 | Metering Body Vent Baffle |
| 33 | Main Metering Jet | 34 | Metering Body |
| 35 | Idle Limiter Cap | 36 | Idle Needle |
| 37 | Idle Needle Seal | 38 | Metering Body Gasket |
| 39 | Power Valve | 40 | Power Valve Gasket |
| 41 | Metering Body Screw | 42 | Metering Body - Secondary |
| 43 | Metering Body Plate Gasket | 44 | Metering Body Plate |
| 45 | Metering Body Gasket | 46 | Choke Diaphragm Bracket Screw |
| 47 | Choke Diaphragm Assembly | 48 | Choke Rod |
| 49 | Choke Rod Seal | 50 | Choke Control Lever Retainer |
| 51 | Fast Idle Cam | 52 | Choke Control Lever |
| 53 | Diaphragm Mounting Screw | 54 | Diaphragm Housing Gasket |
| 55 | Diaphragm Assembly Cover Screw | 56 | Diaphragm Housing Cover |
| 57 | Diaphragm Spring | 58 | Diaphragm Link Retainer |
| 59 | Diaphragm Assembly | 60 | Diaphragm Housing |
| 61 | Choke Plate Screw | 62 | Choke Plate |
| 63 | Choke Shaft & Lever Assembly | 64 | Pump Discharge Nozzle Screw |
| 65 | Pump Discharge Screw Gasket | 66 | Pump Discharge Nozzle |
| 67 | Pump Discharge Needle Valve | 68 | Throttle Body to Main Body Screw |
| 69 | Throttle Body Gasket | 70 | Choke Diaphragm Hose |
| 71 | Tee Fitting | 72 | Plug |
| 73 | Fast Idle Cam Lever Screw | 74 | Fast Idle Cam Lever |
| 75 | Diaphragm Lever & Pin Assembly | 76 | Pump Operating Lever Adjustment Screw |
| 77 | Adjustment Screw Spring | 78 | Adjustment Screw Nut |
| 79 | Pump Operating Lever Retainer | 80 | Pump Operating Lever |
| 81 | Throttle Stop Screw | 82 | Stop Screw Spring |
| 83 | Throttle Connector Pin Nut | 84 | Throttle Connector Bar |
| 85 | Throttle Connector Pin Spacer | 86 | Throttle Connector Pin Bushing |
| 87 | Throttle Connector Pin | 88 | Pump Cam Lockscrew |
| 89 | Pump Cam | 90 | Throttle Plate Screw |
| 91 | Throttle Plate | 92 | Throttle Shaft & Lever Assembly |
| 93 | Flange Gasket | 94 | Main Body |
| 95 | Throttle Body | | |

CLEANING:

Cleaning must be done with the carburetor disassembled. Soak parts long enough to soften and remove all foreign material. Use a carburetor solvent, lacquer thinner, or denatured alcohol. Make certain the throttle body is free of all hard carbon deposits. Wash off in suitable solvent. Blow out all passages in castings with compressed air and check carefully to insure thorough cleaning of obscure areas.

CAUTION: Do not soak parts containing rubber or plastic material. Serious damage could result.

Fuel bowls, should only be exposed to carburetor cleaner long enough to permit removal of gum and varnish deposits with a brush.

REASSEMBLY:

Reassemble in reverse order to disassembly. Note special instructions and follow outline in making adjustments.

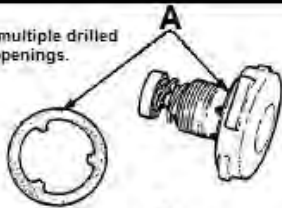
Manually operate the throttle lever and choke mechanism, checking for binding or malfunction. Any binding or interference could cause throttle to stick during operation and result in loss of carburetor throttle control (or uncontrolled engine speed).

Check carburetor to be sure there are no leaks. Flooding could cause a fire.

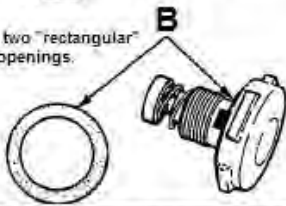
SPECIAL INSTRUCTIONS:

REVERSE IDLE – Some list numbers of this model carburetor use a reverse idle system and decal directions should be followed to properly set the idle mixture.

With multiple drilled fuel openings.



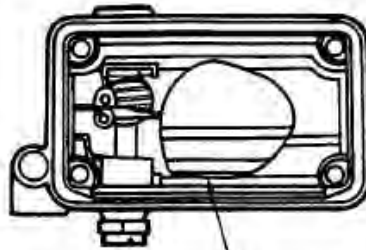
With two "rectangular" fuel openings.



NOTE: Proper power valve gasket must be used as shown, use of improper gasket will result in fuel leakage around power valve.
Power valve (A): Torque to 40-50 in./lbs.
Power valve (B): Torque to 40-50 in./lbs.

FIG. 1 - POWER VALVE INSTALLATION

1 - With fuel bowl inverted

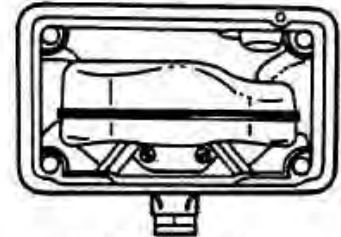


2 - Adjust float parallel to bowl floor

External Adjustable Type

FIG. 2 - DRY FLOAT SETTING

1 - With fuel bowl inverted

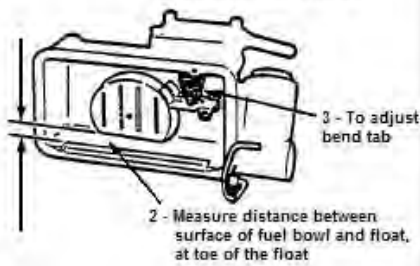


2 - Adjust float so that it is centered in the center of the fuel bowl.

Center Inlet Type

FIG. 3 - DRY FLOAT SETTING

1 - With fuel bowl inverted

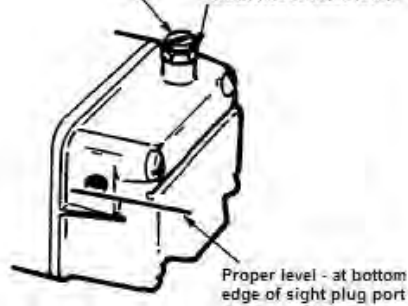


Non-Adjustable Type

FIG. 4 - DRY FLOAT SETTING

1 - Loosen lock screw

2 - To adjust: turn adj. nut clockwise to lower; counter-clockwise to raise level.

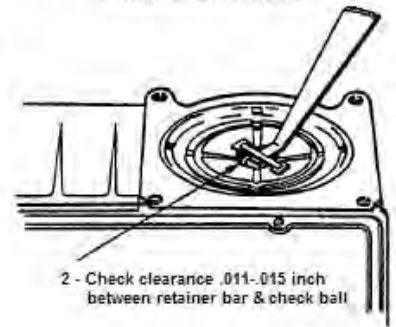


Proper level - at bottom edge of sight plug port

With car on level surface and engine running

FIG. 5 - WET LEVEL ADJUSTMENT

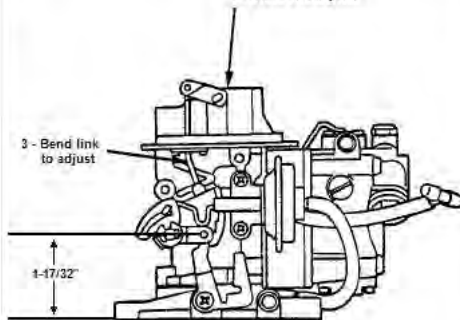
1 - With fuel bowl inverted



2 - Check clearance .011-.015 inch between retainer bar & check ball

FIG. 6 - PUMP INTAKE CHECK BALL ADJ.

1 - Close choke plate



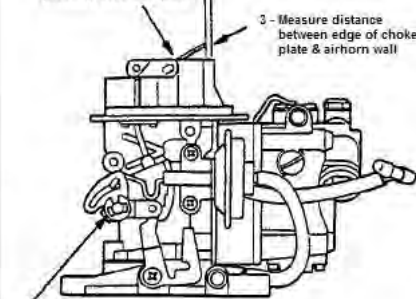
3 - Bend link to adjust

1-17/32"

2 - Measure from top of choke rod hole to base of carburetor.

FIG. 7 - CHOKE LEVER ADJUSTMENT

2 - Apply light closing pressure on choke plate



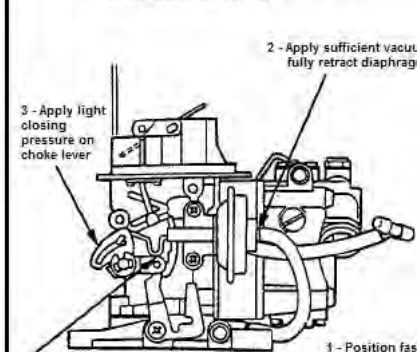
3 - Measure distance between edge of choke plate & airhorn wall

4 - To adjust: bend choke control lever tang

1 - Position fast idle tang on second step of fast idle cam

FIG. 8 - FAST IDLE CAM

4 - Measure clearance between bottom edge of choke plate & airhorn wall



2 - Apply sufficient vacuum to fully retract diaphragm stem

3 - Apply light closing pressure on choke lever

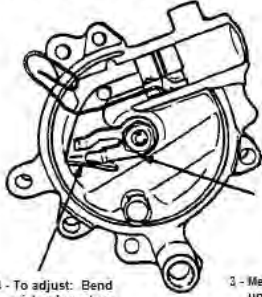
5 - To adjust: bend link

1 - Position fast idle tang on second step of fast idle cam

FIG. 9 - CHOKE QUALIFYING

NOTE: Bend a paper clip (.030 to .036 dia.) as shown to provide a hooked end no longer than 1/8 inch.

1 - Insert paper clip into piston bore until end of bore slot is hooked as shown



2 - Move piston & levers in choke closing direction until edge of piston slot engages paper clip

4 - To adjust: Bend piston lever tang.

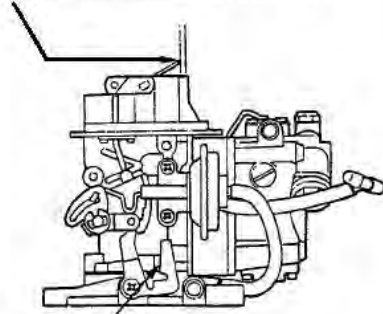
3 - Measure distance between upper edge of choke plate & air horn. See Fig. 9.

FIG. 10 - CHOKE QUALIFYING (Integral Choke)

1 - Hold throttle in wide open position.

2 - Apply light closing pressure to choke plate.

3 - Measure clearance between top edge & air horn wall.

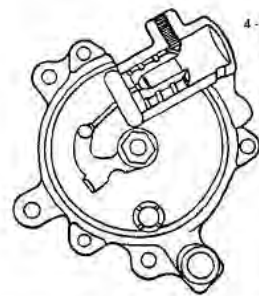


4 - To adjust: Bend tang.

FIG. 11 - CHOKE UNLOADER

1 - Push choke piston against stop.

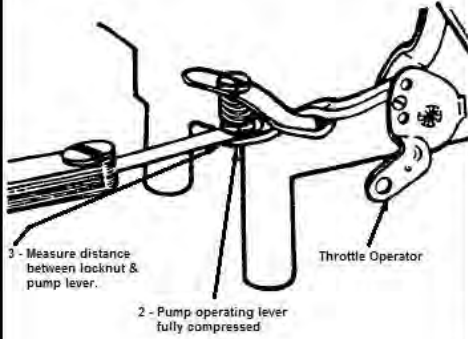
2 - Apply light closing pressure to choke plate.



4 - To adjust: turn screw in or out as required.

3 - Measure distance between upper edge of choke plate & air horn wall.

FIG. 12 - CHOKE QUALIFYING (Late Integral Choke)

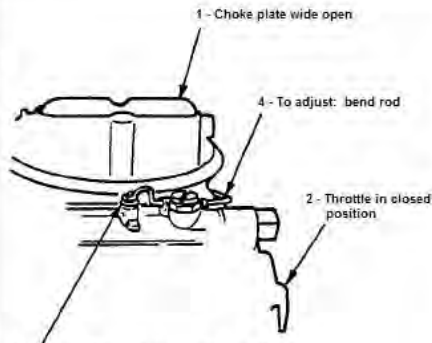


3 - Measure distance between locknut & pump lever.

2 - Pump operating lever fully compressed

Throttle Operator

FIG. 13 - PUMP OVERRIDE ADJUSTMENT



1 - Choke plate wide open

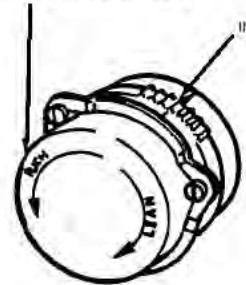
4 - To adjust: bend rod

2 - Throttle in closed position

3 - Measure distance between valve stem & rod (.015") or rubber valve & seat (.050)

FIG. 14 - VENT VALVE ADJUSTMENT

Rotate cover to align reference mark on cover with specified mark on choke housing.



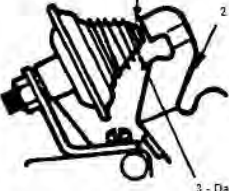
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FIG. 15 - CHOKE ADJUSTMENT

1 - With choke in wide open position

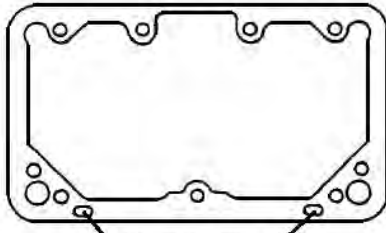
4 - Adjust to specified clearance

2 - Throttle in closed position



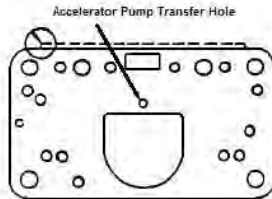
3 - Dashpot stem fully depressed

FIG. 16 - DASHPOT ADJUSTMENT

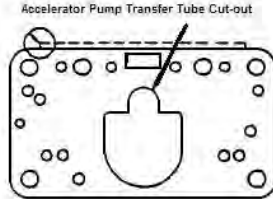


Accelerator Pump Passages

The primary fuel bowl gasket must be installed with the accelerator pump passage on the right side of the main jets. Fuel bowl screws must be torqued to 40 in./lbs.



Accelerator Pump Transfer Hole



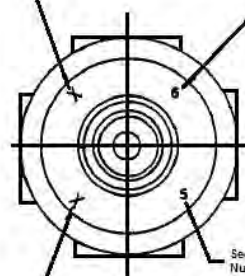
Accelerator Pump Transfer Tube Cut-out

METERING BODY GASKETS

Example: Power Valve Assembly 125-65

65 which designates the stamped number, also identifies the opening point of the power valve (i.e., 6.5" vacuum).

Code Letter A thru M for Month - omitting Letter I - Use J for Sept.



First Digit of Stamped Number Identification

Second Digit of Stamped Number Identification

Code Number 0 thru 9 for Year

POWER VALVE IDENTIFICATION