# FUEL SYSTEM

# SERVICE INSTRUCTION WORKSHEET

HOLLEY CARBURETOR

TO REPAIR

2 BARREL • MODELS 2280, 6280

- 1. Carefully read the text in the following pages to become familiar with the contents of this
- worksheet before performing carburetor overhaul.

  The exploded view is typical of the model carburetor this kit will service. The view may differ slightly from the actual carburetor being overhauled.
- 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.
   Parts list shown DOES NOT reflect the contents of the kit.

67. 68.

69. 70. 71. 72. 73.

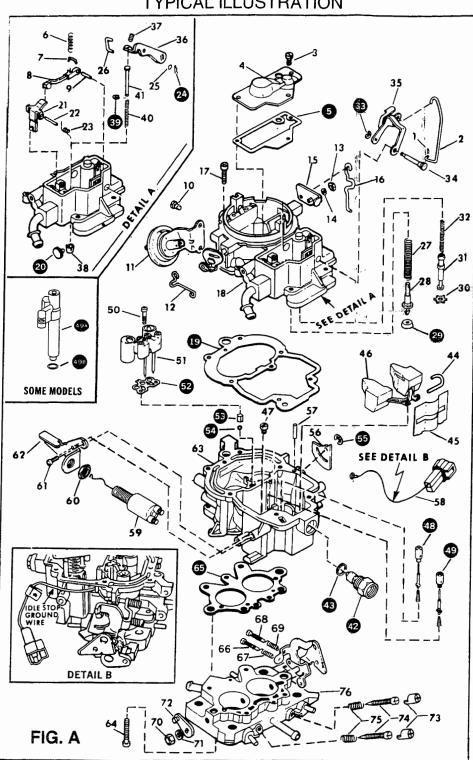
Kit may contain extra parts intended for other carburetors within this group. Substitute identical replacement parts for original worn parts found in carburetor

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** Pin, Cotter, Pump Rod Rod, Pump Rod, Pump Screw, Cover (3) Cover, Bowl Vent & Pump Gasket, Bowl Vent & Pump Spring, Bowl-Vent Valve Retainer, Pin Lever Lever, Bowl Vent Valve Pin, Bowl Vent Lever 456789 Pin, Bowl Vent Lever
Screw, Choke Diaphragm (2)
Choke Diaphragm Assy.
Link, Choke Diaphragm
Nut, Dechoke Lever
Washer, Dechoke Lever
Lever, Dechoke
Link, Fast Idle 13 16. 17. Screw, Air Horn (6) Air Horn Gasket, Air Horn 18 Seal, Bowl Vent Valve Lever, Bowl Vent Valve Pin, Bowl Vent Valve Spring, Bowl Vent Valve Clip, Hair Pin Washer Link, Accelerator Pump Spring, Pump Stem, Pump Spring, Pump
Stem, Pump
Cup, Pump
Batainer, Power Valve
Spring, Power Valve
"E" Clip, Lever Shift
Shaft, Pump Valve
Lever, Pump 29 30 33 34 35 36 37 Shaft, Pump Valve
Lever, Pump
Lever, Pump & Power Valve
Screw, Adj. Power Valve
Cap, End, Power Valve
"E" Clip, Power Valve
Stem, Power Valve
Stem, Power Valve
Stem, Power Valve
Stem, Power Valve
Needle & Seat Assy. Inlet
Gasket, Needle & Seat Assy.
Pin, Float Hinge
Baffle, Float
Float & Hinge Assy.
Jet, Metering
Power Valve Assy. Vacuum
(Mark Location)\*
Power Valve Assy. Mechanical
(Mark Location)\*
Solenoid, Feedback
"O" Ring, Feedback Solenoid
Screw, Venturi Assy.
Venturi Assy.
Gasket, Venturi Assy. 38 40. 42. 43. 44. 46. 49B 50. Venturi Assy.
Gasket, Venturi Assy.
Weight, Pump Discharge
Ball, Pump Discharge
"E" Clip, Fast Idle Cam
Cam, Fast Idle
Roll Pin, Ground Wire Hanger
Wire, Idle Stop, Ground
Transducer, Throttle Positioner
Nut, Transducer 52. 53. 54. 55 57 59. 60. Transducer. Throttle Positioner
Nut, Transducer Adjusting
Screw, Transducer Bracket (2)
Bracket, Transducer
Main Body
Screw, Throttle Body to Main Body (4)
Gasket. Throttle Body to Main Body
Screw, Throttle Stop
Spring, Throttle Stop Screw
Screw, Fast Idle Adjusting
Spring, Fast Idle Screw
Nut, Throttle Shaft
Washer, Throttle Shaft
Lever, Transducer
Cap, Limiter (Some Models)
Screw, Idle Adjusting
Spring, Idle Screw Adjusting
Throttle Body Assy.

\* See Note 5 on Disassembly, Page 2 62 63 64 65

TYPICAL ILLUSTRATION



NOTE: Circled parts are included in most kits. Extra parts are included for other kits.

See Note 5 on Disassembly, Page 2

#### NOTES ON DISASSEMBLY

- Do not remove choke or throttle valve plates or their respective shafts unless replacements are required.
- Mark location for re-assembly of all levers, springs, main jets, rods and screws of different lengths.
- Before dismantling Float Assy., measure and record float level setting for re-assembly since specification data may not be available for all carburetors.
- To prevent loss or damage to pump discharge ball (Fig. A,54) and weight (53), invert main body (63) with venturi assembly (51) removed. Allow pump discharge ball & weight to fall into cupped hand.
- 5. CAUTION: Mechanical and vacuum power valves are not interchangeable. The mechanical power valve, (49), is located on the choke side of the carburetor and has a longer needle and a smaller diameter stem. The vacuum power valve, (48), is located on the throttle side of the carburetor and has a shorter needle and a larger diameter stem.

#### NOTES ON DISASSEMBLY (Cont'd)

- To remove limiter caps (73), insert no. 8 sheet metal screw into cross slot while grasping cap with a pair of pliers. Next, turn screw clockwise until cap lifts off.
- Record location of pump rod (holes A or B, Fig. C) for proper reassembly.

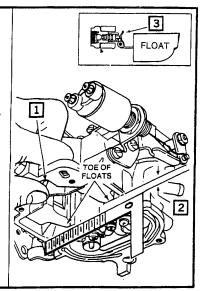
#### **NOTES ON RE-ASSEMBLY**

- When adjusting Float Level, do not allow VITON tip needle to be compressed into needle seat since this will cause a false reading which will effect correct fuel level in float bowl. After being compressed the rubber slowly recovers its shape.
- Check float (Fig. A,46) for fuel absorption by pressing lightly between fingers. If surface appears wet or float has a heavy feel, check against a serviceable float and replace if necessary.
- 3. When lowering air horn assembly (Fig. A, 18) straight down on main body (63), guide pump cup (29) into pump cylinder and check both upper power valve assemblies for correct alignment with lower valve assembly pins. **CAUTION**: Misalignment can damage pins.

# ADJUSTMENT DATA

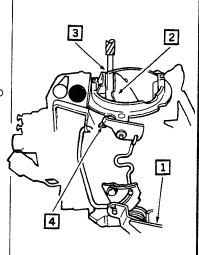
### FIG. B FLOAT LEVEL ADJUSTMENT

- I INVERT MAIN BODY
  WITHOUT GASKET.
  POSITION FINGER TO HOLD
  FLOAT HINGE PIN IN PLACE
  TO FULLY SEAT FLOAT
  ASSEMBLY IN SLOT.
  CAUTION: ALLOW WEIGHT
  OF FLOATS ONLY TO PUSH
  "NEEDLE AGAINST SEAT.
- 2. MEASURE AS SPECIFIED FROM TOE OF FLOATS TO SURFACE OF CASTING.
- BEND FLOAT TANG TO ADJUST IF REQUIRED.



#### FIG. D CHOKE UNLOADER SETTING

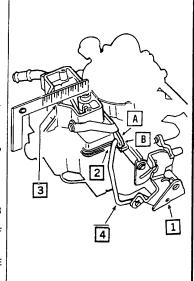
- MOVE THROTTLE LEVER TO WIDE OPEN POSITION.
- 2. APPLY LIGHT CLOSING PRESSURE TO CHOKE VALVE
- 3. MEASURE SPECIFIED
  DISTANCE BETWEEN WALL
  OF AIR HORN AND UPPER
  EDGE OF CHOKE VALVE.
- 4. BEND TANG TO ADJUST.



#### FIG. C ROD LOCATION & PUMP ADJUSTMENT

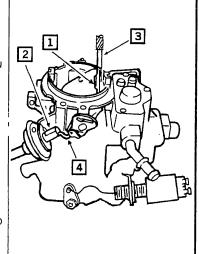
CAUTION: DO NOT DISTURB OR LOSE PIN LEVER RETAINER (Fig. A, 7)

- POSITION THROTTLE AT CURB IDLE.
- 2. PLACE PUMP ROD IN SAME HOLE AS RECORDED IN DIS-ASSEMBLY.
- MEASURE AS SPECIFIED BETWEEN SURFACE OF CASTING AND TOP OF PUMP LEVER.
- 4. BEND ROD, TO ADJUST.
  SOME MODELS: ADJUST TO
  ZERO CLEARANCE
  BETWEEN CAP NUT & LEVER
  BY TURNING CAP NUT.
  NOTE: THIS ADJUSTMENT, IF
  REQUIRED, WILL EFFEÇT
  BOWL VENT AND
  MECHANICAL POWER VALVE
  SETTINGS. RESET BOTH AS
  NECESSARY.



#### FIG. E VACUUM BREAK ADJUSTMENT

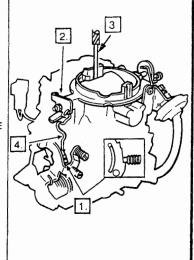
- WIITH FAST IDLE SCREW ON HIGH STEP OF CAM, APPLY LIGHT CLOSING PRESSURE TO CHOKE VALVE.
- USING AN OUTSIDE VACUUM SOURCE, DEPRESS DIAPHRAGM PLUNGER TO END OF TRAVEL.
- MEASURE SPECIFIED DISTANCE BETWEEN WALL OF AIR HORN AND UPPER EDGE OF CHOKE VALVE.
- BEND CONNECTING LINK TO ADJUST.



# ADJUSTMENT DATA (Cont'd)

#### FIG. F FAST IDLE CAM SETTING

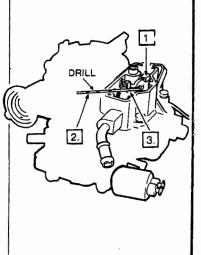
- PLACE FAST IDLE SCREW ON SECOND STEP OF CAM
- 2. MAINTAIN LIGHT PRESSURE ON CHOKE VALVE LEVER TOWARD CLOSED CHOKE POSITION
- 3. MEASURE DISTANCE AS SPECIFIED BETWEEN WALL OF AIR HORN AND UPPER EDGE OF CHOKE VALVE
- 4. BEND LINK TO ADJUST



## FIG. H MECHANICAL POWER VALVE SETTING POSITION THROTTLE VALVE WIDE OPEN 2. PLACE HEX KEY IN ADJUSTING SCREW SOCKET. PRESS DOWN AND RELEASE TO CHECK FOR EXISTING CLEARANCE 3. IF ADJUSTMENT IS REQUIRED, TURN SCREW IN 1. UNTIL ZERO CLEARANCE IS OBTAINED. NEXT, TURN SCREW OUT ONE FULL TURN. NOTE: THIS ADJUSTMENT MUST BE RE-SET IF PUMP ADJUSTMENT IS CHANGED

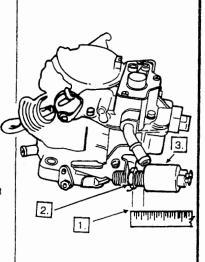
### FIG. G BOWL VENT SETTING

- WITH THROTTLE SET AT CURB IDLE, PUSH DOWN ON VENT VALVE LEVER
- 2. MEASURE AS SPECIFIED USING A DRILL OR GAUGE BETWEEN VENT VALVE LEVER AND VENT VALVE TANG
- 3. BEND END OF VENT VALVE LEVER TO ADJUST. NOTE: THIS ADJUSTMENT MUST BE RE-SET IF PUMP ADJUSTMENT IS CHANGED



#### FIG. I TRANSDUCER ADJUSTMENT

- MEASURE AS SPECIFIED, DISTANCE BETWEEN BRACKET AND BODY OF TRANSDUCER AS SHOWN
- 2. IF ADJUSTMENT IS REQUIRED, LOOSEN JAM NUT
- 3. ROTATE TRANSDUCER
  CLOCKWISE OR COUNTER
  CLOCKWISE UNTIL
  CORRECT CLEARANCE IS
  OBTAINED. AFTERWARDS
  RE-TIGHTEN JAM NUT



# SPECIFICATIONS BY APPLICATION

Year	Application	Float Level Fig. B	Pump Adj. Fig. C	Un- loader Fig. D	Vacuum Break Fig. E	Fast Idle Cam Fig. F	Bowl Vent Fig. 6	Mech. Power Fig. H	Trans- ducer Adj. Fig. 1	Idle Speed R.P.M.	
										89-78	CHRYSLER CORP. CARS,
DODGE TRUCKS									į		
318 ENG. w/CARB. NO.'S.											
R7990	9/32	_	.310	.150	_	.060		_	5		5
R8067, 8068	9/32	1	.310	.110	.100	_	2	_	5		5
R8448	9/32	_	.310	.150	.070	.030	_		5		5
R8612	9/32	_	.310	.150	.070	.060	_		5		5
R8634	9/32	_	.310	.150		.060	_		5		5
R8920	9/32	1	.310	.070	.090	.060	2				
R8999; 9000, 9001	9/32	.030 <sup>3</sup>	.310	.130	.070	.030	2	_	700		1600
R9135	9/32	1	.310	.130	.070	4	2		5		5
R9136, 9151	9/32	1	.310	.110	.070	4	2		5		5
R9209	9/32	.030 <sup>3</sup>	.310	.150	.070	.060	2		700		1600
R9224, 9427, 9428	9/32	1	.310	.150	.070	.060	2	_	5		5
R9225	*	*	*	*	*	*	*	*	*		*
R9425. 9426. 9437	9/32	1	.310	.130	.070	.060	2		5		5
R9491, 9493, 9572,9949, 9951	9/32	1	.200	.140	.052	6	2		750		1500
R9492	*	*	*	*	*	*	*	*	*		*
R9949, 9950	9/32		.200	.140	.052	_			-5		5
R40093, 40164	9/32		.250	.140	.070	4	2		760		1500
R40095	9/32		.240	.140	.052	_	_		5		5
R40121	9/32	1	.280	.130	.060		2		5		5
1	9/32		.250	.150	.070				5		5
R40132	9/32		.200	.140	.052			_	5		5
R40165, 40165-1	9/32		.250	.140	.070		_	_	5		5
R40167, 40167-1, 40172, 40172-1,	3/32		.230	.140	.070						5
40198	9/32	_	.250	.140	.052		_		5		5
R40200	9/32		.200	.140	.052		_		5		5
R40214, 40216	9/32	.210 <sup>3</sup>	.250	.140	.070	.035	2		5		5
R40217	9/32	.135	.350	.160	.060	6	2		5		5
1	9/32	.135	.250	.140	.060	6	2	_	5		5
R40218	9/32	.135	.350	.130	.060	6	2		5		5
R40220			.250	.150	.070				5		5
R40221	9/32	-		.130	.070	_			5		5
R40222	9/32		.150 5	.130	.070	5	5	5	5		5
R40243	9/32								5		5.
R40245	9/32		.200	.140	.052	_	2		5		5
R40276	9/32	•	.280	.130	.060	-6	2	5	5		5
R40294	9/32	<u> </u>	.350	.160 5	.070 5	5	5	5	5		5
R40320, 40321	1		·				-				*
	R40354A	*	*	*	*	*	*	*	*		<u> </u>

# FOOTNOTES:

- 1 Pump lever surface is flush with top of bowl vent casing.
- 2 Refer to text Fig. H.
- 3 At idle.
- 4 Solenoid operated.
- 5 See decal on vehicle. (V.E.C./Label).
- 6 Not adjustable.
- \* Specification data not available for the following Carb. nos. R9225; R9492; R995¢; R40095, 165, -1; 167, -1; 172, -1; 198, 200; R4035A.