

# FUEL SYSTEM

## SERVICE INSTRUCTION WORKSHEET

TO REPAIR

GF4178

HOLLEY CARBURETOR

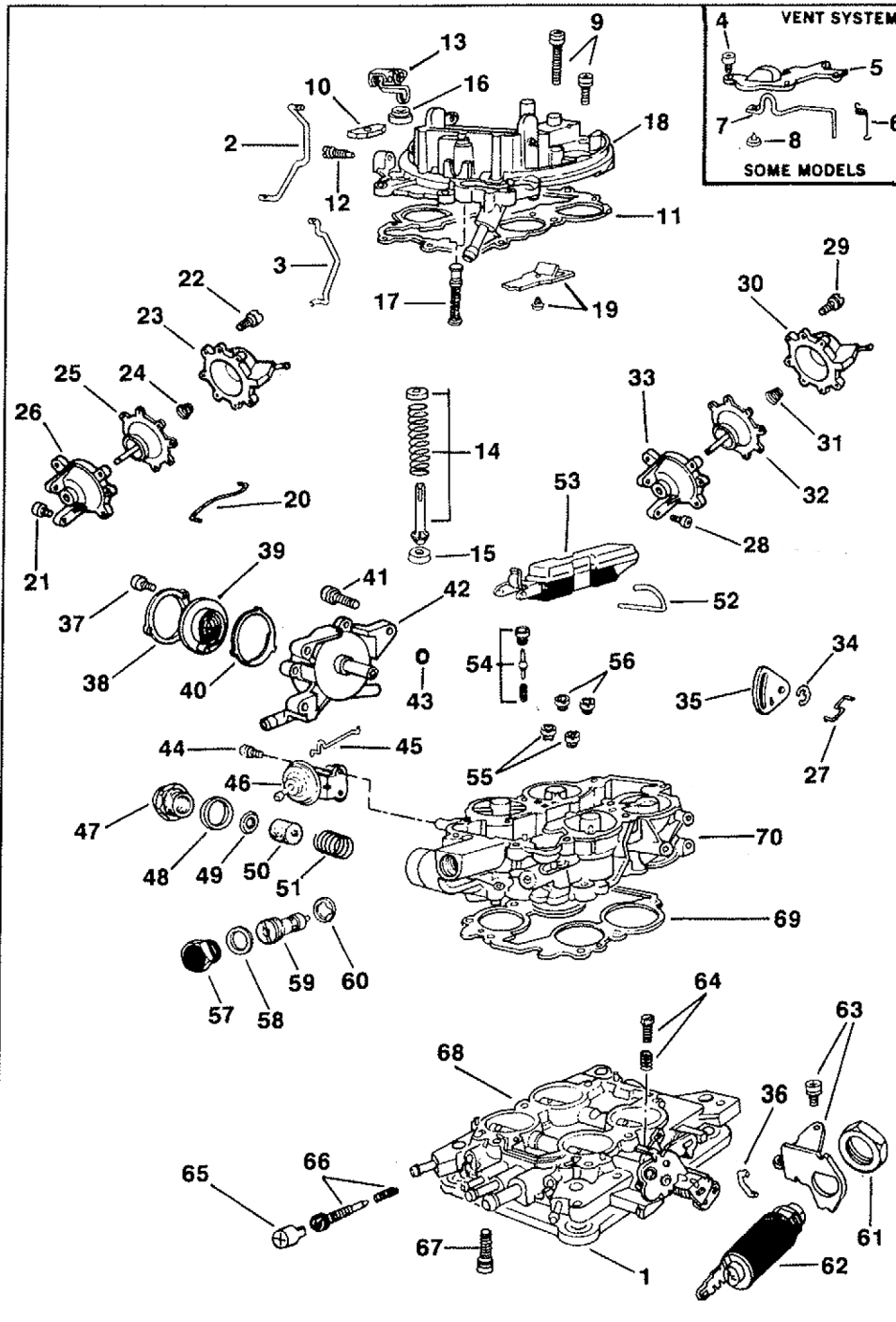
4 BARREL—Model 4360, C

- Carefully read the text in the following pages to become familiar with the contents of this worksheet before performing carburetor overhaul.
- 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.
- 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.
- Parts List shown **DOES NOT** reflect the contents of the kit.
- Kit may contain extra parts intended for other carburetors within this group. Substitute identical replacement parts for original worn parts found in carburetor.

### PARTS LIST

- Gasket, flange
- Rod, choke
- Rod, pump
- Screw, E.C.S. vent cover
- Cover, E.C.S. vent
- Spring, vent return
- Rod, E.C.S. vent
- Seal, E.C.S. vent
- Screw, air horn (6 short, 4 long)
- Seal, choke rod
- Gasket, air horn
- Screw, pump lever
- Lever assy., pump
- Plunger, spring & retainer, accel. pump
- Cup, accel. pump
- Seal, pump plunger
- Power piston assy.
- Air horn assy.
- Baffle & screw, main body
- Rod, choke diaphragm\*
- Screw, diaphragm housing (2)\*
- Screw, diaphragm cover\*
- Cover, choke diaphragm\*
- Spring, diaphragm return\*
- Choke diaphragm assy.\*
- Housing, choke diaphragm
- Rod, quick pull diaphragm\*
- Screw, diaphragm housing (2)\*
- Screw, diaphragm cover\*
- Cover, quick pull diaphragm\*
- Spring, diaphragm return\*
- Quick pull diaphragm assy.\*
- Housing, quick pull diaphragm\*
- Retainer, interm. lever\*
- Intermediate lever, choke quick pull\*
- Rod, secondary connecting
- Screw, choke cover retainer (3)\*
- Retainer, choke cover\*
- Thermostat & cover assy.\*
- Gasket, choke cover\*
- Screw, choke housing (3)\*
- Choke housing assy.\*
- Washer, choke housing\*
- Screw, choke pull-off (2)
- Rod, choke pull-off
- Choke pull-off assy.
- Fitting, fuel inlet
- Washer, fitting
- Washer, fitter
- Filter, fuel
- Spring, filter
- Pin, float hinge
- Float assy.
- Power valve assy.
- Main jet, primary (2)
- Main jet, secondary (2)
- Plug, fuel inlet
- Washer, plug
- Needle & seat assy.
- Washer, needle & seat
- Nut, idle stop solenoid
- Idle stop solenoid assy.
- Bracket & screw, solenoid
- Screw & spring, idle speed
- Cap, idle limiter (2)
- Needle & spring, idle mixture (2)
- Screw, throttle body (6)
- Throttle body assy.
- Gasket, throttle body
- Main body assy.

### TYPICAL ILLUSTRATION



☐ PARTS LIST SHOWN DOES NOT REFLECT THE CONTENTS OF THE KIT

## REMOVAL & INSTALLATION NOTES:

1. COVER OPENING ON INTAKE MANIFOLD AFTER CARBURETOR IS REMOVED.
2. UPON REMOVAL OF COMPONENTS BE SURE TO MARK LOCATIONS OF ALL JETS AND NOTE ANCHORING POINTS OF ALL SPRINGS.
3. INSTALL PARTS IN REVERSE ORDER OF REMOVAL.
4. USE NEW GASKETS, WASHERS AND O-RINGS WHERE REQUIRED.
5. BE SURE RETAINER (14) IS INSTALLED PROPERLY OVER SPRING BEFORE INSTALLING PUMP. ALSO FLEX CUP (15) OUTWARD AND LIGHTLY LUBRICATE FOR BETTER PERFORMANCE.
6. CAREFULLY RE-STAKE AIR HORN ASSEMBLY (18) AFTER INSTALLATION OF POWER PISTON (17).
7. INSTALL IDLE MIXTURE NEEDLES (66) AND TURN IN UNTIL LIGHTLY SEATED, THEN BACK OUT 2 TURNS.
8. SOME SCREWS VARY IN LENGTH, INSTALL IN PROPER LOCATION. TIGHTEN THROTTLE BODY SCREWS (67) EVENLY AND TORQUE TO 30-50 IN.-LB. TIGHTEN AIR HORN SCREWS (9) EVENLY AND TORQUE TO 20-30 IN.-LB.

## CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. USE SPRAY CLEANER AND A STIFF BRISTLE BRUSH. 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.

## ADJUSTMENT DATA

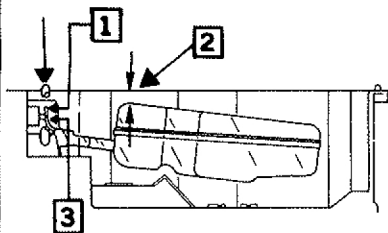
### FIG. A FLOAT ADJUSTMENT

#### DRY

1. APPLY LIGHT PRESSURE TO FLOAT TANG TO HOLD FLOAT NEEDLE IN CLOSED POSITION, AT THE SAME TIME KEEP HINGE PIN FIRMLY IN PLACE. NOTE: EXCESSIVE PRESSURE TO NEEDLE TIP WILL CAUSE DAMAGE AND/OR A FALSE FLOAT READING WILL RESULT.
2. MEASURE AS SPECIFIED FROM TOP OF FLOAT TO TOP OF CASTING (AS SHOWN) WITHOUT GASKET IN PLACE.
3. IF ADJUSTMENT IS REQUIRED, BEND FLOAT TANG.

#### WET

1. WITH CARBURETOR MOUNTED ON ENGINE, RUN ENGINE TO OBTAIN OPERATING FUEL LEVEL IN FLOAT BOWL. SHUT OFF ENGINE & REMOVE AIR HORN.

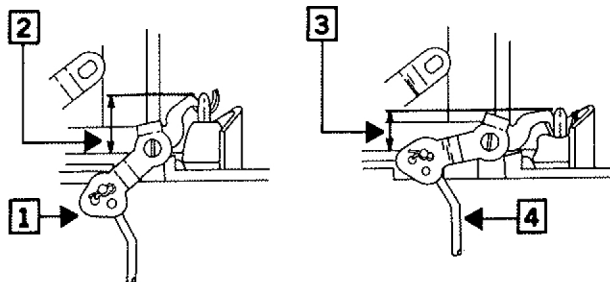


2. MEASURE AS SPECIFIED FROM TOP SURFACE OF MAIN BODY (GASKET REMOVED) TO SURFACE OF FUEL.
3. TO ADJUST, SEE PARAGRAPH 3 ABOVE.

### FIG. B PUMP ADJUSTMENT

#### Rod Loc. & Length of Travel

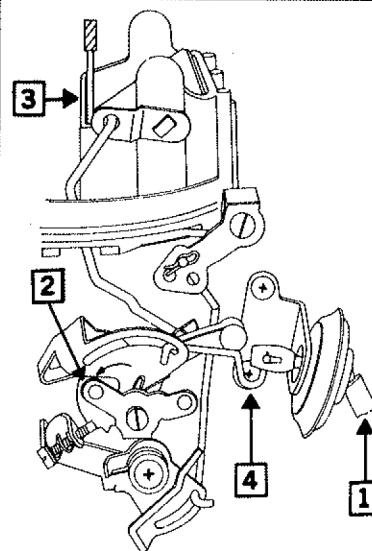
1. INSERT PUMP ROD IN HOLE AS SPECIFIED & SECURE WITH CLIP.
2. ALLOW THROTTLE VALVES TO COMPLETELY CLOSE BY TURNING OUT THROTTLE SPEED SCREW. MEASURE DISTANCE FROM AIR CLEANER GASKET SURFACE TO TOP OF PUMP STEM.
3. HOLD THROTTLE WIDE OPEN. AGAIN, MEASURE DISTANCE AS INDICATED IN ABOVE PARAGRAPH. THE DIFFERENCE BETWEEN THE TWO READINGS SHOULD BE THE SPECIFIED PUMP TRAVEL.
4. IF ADJUSTMENT IS REQUIRED, BEND PUMP ROD.



## ADJUSTMENT DATA (Cont'd)

### FIG. C CHOKE DIAPHRAGM ADJUSTMENT

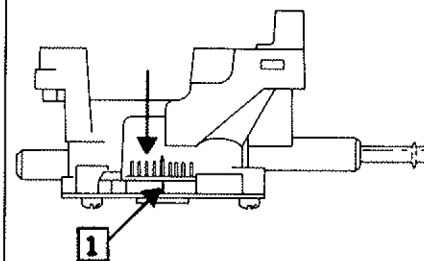
1. WITH CHOKE CLOSED, APPLY VACUUM TO SEAT CHOKE DIAPHRAGM.
2. ALSO APPLY LIGHT CLOSING FORCE TO CHOKE LEVER.
3. MEASURE SPECIFIED CLEARANCE BETWEEN LOWER EDGE OF CHOKE VALVE & WALL OF AIR HORN.
4. TO ADJUST, BEND CHOKE DIAPHRAGM LINK.



### FIG. D AUTO CHOKE ADJ. (INTEGRAL TYPE)

NOTE: WHEN MOUNTING CHOKE COVER, POSITION THERMOSTAT SPRING LOOP ON PIN LEVER & ROTATE COVER SO THAT CHOKE VALVE WILL BE SPRING-LOADED TOWARD CLOSED POSITION.

1. LINE UP INDEX MARK ON COVER WITH SPECIFIED LINE GRADUATION ON CHOKE HOUSING. THEN SECURE COVER WITH THREE MOUNTING SCREWS.



## SPECIFICATIONS BY APPLICATION 1

Year	MODEL	Float Level FIG. A		Pump Adjustment FIG. B		Choke Pull-off Fig. C	Auto. Choke Fig. D
		Dry	Wet	Rod Loc.	Travel		

### BUICK

1978-73	260, 350, 455 Eng.	1/8	5/8	# 1	7/16	.180	Index
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### CHEVROLET

1980 <sup>2</sup> -78	350, 400 Eng.	1/8	5/8	# 1	7/16	.180	Index
1977	350 Eng.	1/8	5/8	# 1	7/16	.180	1NL
1976-75	350, 400 Eng.	1/8	5/8	# 1	7/16	.160	Index
74-73; 69-65	327, 350, 427, 454 Eng.	1/8	5/8	# 1	7/16	.150	—

### CHRYSLER MOTORS

1976-73	360, 400, 440 Eng.	1/8	5/8	# 1	7/16	.180	—
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### DODGE TRUCKS

1976-73	318, 360 Eng. B100 & 200	1/8	5/8	# 1	7/16	.150	—
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### GM TRUCKS

1976-75	350, 400 Eng.	1/8	5/8	# 1	7/16	.160	Index
74-73; 69-65	327, 350, 427, 454 Eng.	1/8	5/8	# 1	7/16	.150	—

### OLDSMOBILE

1978 <sup>2</sup> -75	260 V-8, 350, 403 Eng.	1/8	5/8	# 1	7/16	.180	Index
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### PONTIAC

1979 <sup>2</sup> -75	260, 400, 455 Eng.	1/8	5/8	# 1	7/16	.180	Index
1972-67	350, 455 Eng.	1/8	5/8	# 1	7/16	.150	—

#### FOOTNOTES:

- <sup>1</sup> Dimensions are given in inches.  
<sup>2</sup> For Carb. No. R9193; R9678; R9865 and R9918, no data is available.

#### ABBREVIATIONS:

- |         |                         |
|---------|-------------------------|
| Accel.  | Accelerator             |
| E.C.S.  | Emission Control System |
| Interm. | Intermediate            |
| NL      | Notch Lean              |
| Loc.    | Location                |