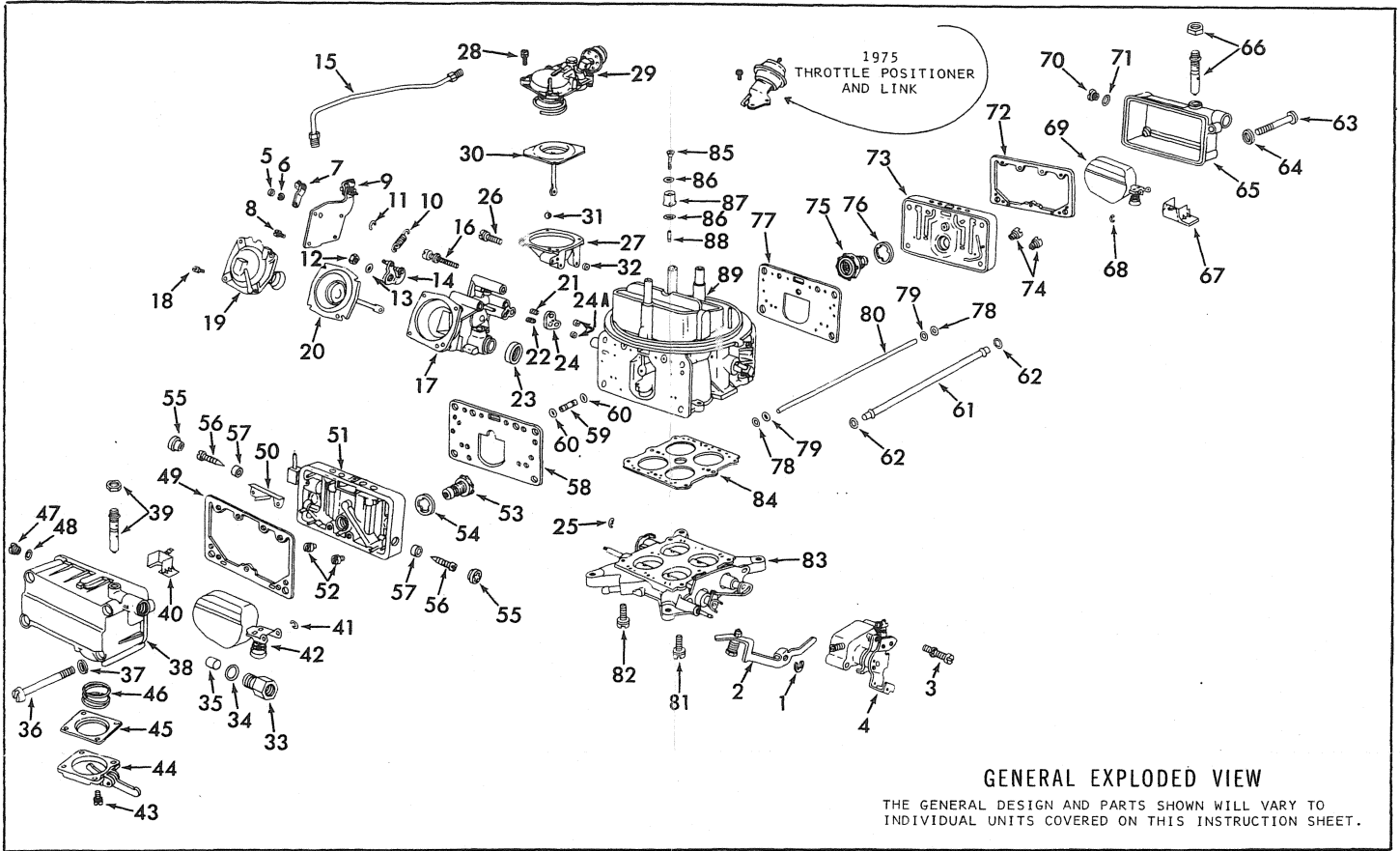


# INSTRUCTION SHEET

## HOLLEY CARBURETOR - MODEL 4150G, 4150MG



**GENERAL EXPLODED VIEW**

THE GENERAL DESIGN AND PARTS SHOWN WILL VARY TO INDIVIDUAL UNITS COVERED ON THIS INSTRUCTION SHEET.

### DISASSEMBLY

USE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION. NOTE: PRIMARY SIDE (CHOKE SIDE) AND SECONDARY SIDE PARTS ARE NOT ALWAYS IDENTICAL. BE SURE TO MARK PARTS REMOVED FROM PRIMARY SIDE. CARE MUST BE TAKEN WHEN REMOVING OR INSTALLING COVER SCREWS FROM THE GOVERNOR OR SECONDARY UNITS TO PREVENT DAMAGE TO THE DIAPHRAGMS. ALSO MARK DIAPHRAGMS AND SPRINGS FOR PROPER ASSEMBLY. CARBURETORS HAVING TWO GOVERNOR BYPASS JETS (21)(22) NOTE SIZES AND LOCATION. IDLE ADJUSTING NEEDLES (56) ARE SOMETIMES LOCATED IN THE SECONDARY METERING BODY (73). SECONDARY METERING BODY (73) WILL SOMETIMES BE BLANK OR HAVE AN ENRICHMENT OR OVERRUN VALVE (75).

### CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. USE A CARBURETOR CLEANING SOLVENT. MAKE CERTAIN THE THROTTLE BORES ARE FREE OF ALL CARBON AND VARNISH DEPOSITS. RINSE 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 WITH ATTACHED PLASTIC PARTS FOR A LONG PERIOD OF TIME. DO NOT SOAK ANY PARTS CONTAINING RUBBER OR DIAPHRAGM ASSEMBLIES. (20)(29)(30)(42)(69)

### REASSEMBLY

REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL INSTRUCTIONS AND FOLLOW NUMERICAL OUTLINE IN MAKING ADJUSTMENTS NECESSARY FOR CARBURETOR BEING SERVICED.

### SPECIAL INSTRUCTIONS

SCREWS LISTED BELOW MUST BE TIGHTENED IN THREE STAGES CROSSWISE, TO ARRIVE AT THE CORRECT TORQUE.

THROTTLE BODY GASKET(84)-MAKE SURE HOLES ARE PROPERLY MATCHED TO THROTTLE BODY. TORQUE THROTTLE BODY SCREWS TO 50 INCH POUNDS.

BALANCE TUBE (80) INSTALLATION-SEE FIG. 1.

ENRICHMENT OR OVERRUN VALVE (75)(53) INSTALLATION-TORQUE TO 100 INCH POUNDS.

PRI. AND SEC. FUEL BOWL (65)(38)-BEFORE INSTALLING MAKE DRY FLOAT LEVEL ADJUSTMENT.

BOWL SCREW INSTALLATION (36)(63).-INSTALL GASKETS (37)(64) ON SCREWS BEFORE INSTALLING THEN TORQUE EVENLY IN STAGES TO 40 INCH LBS.

FUEL LINE TUBE (61)-INSTALL O-RINGS (62) ON THE EXTREME ENDS OF THE TUBE, THEY WILL ROLL ON THE TUBE WHEN INSTALLING THE FUEL BOWL.

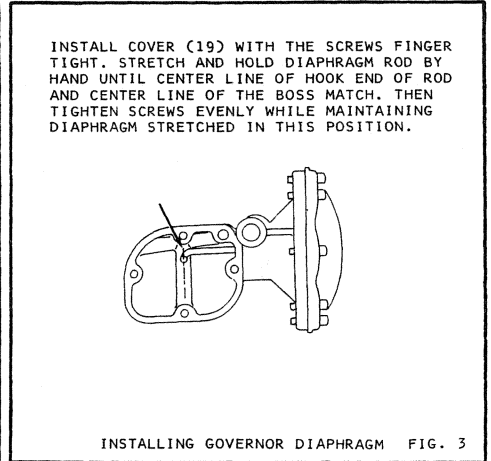
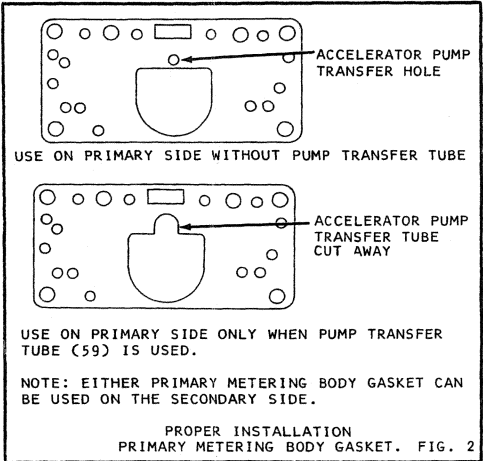
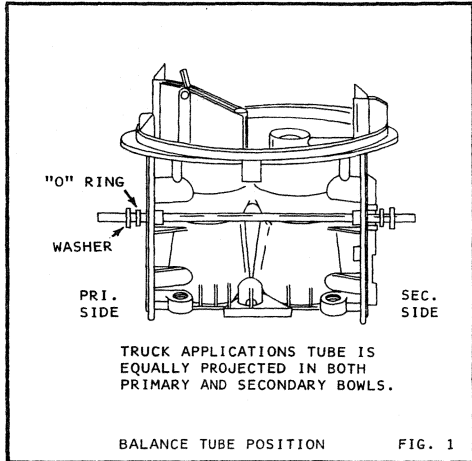
IDLE ADJUSTING NEEDLES (56)-TURN IN UNTIL LIGHTLY SEATED, THEN BACK OUT 1 TURN. (DO NOT INSTALL IDLE LIMITER CAPS AT THIS TIME WHERE USED.)

GOVERNOR DIAPHRAGM (20) INSTALLATION-SEE FIG. 3.

### NOMENCLATURE

REF. NO.	REF. NO.
1. RETAINER-PUMP OPERATING LEVER	42. FLOAT & SPRING ASSY.-PRI.
2. LEVER-PUMP OPERATING	43. FLOAT & LOCKWASHER(4)-PUMP COVER
3. SCREW & LKWSHR(2)-THROTTLE OPERATING HOUSING ASSY.	44. COVER ASSY.-PUMP
4. THROTTLE OPERATING HSG. ASSY.	45. DIAPHRAGM-PUMP
5. NUT-CHOKE LEVER	46. SPRING-DIAPHRAGM
6. LOCKWASHER-CHOKE LEVER	47. PLUG-SIGHT LEVEL
7. LEVER-CHOKE CONTROL	48. GASKET-SIGHT LEVEL PLUG
8. SCREW & LKWSHR(4)-GOV. HSG. COVER	49. GASKET-PRI. FUEL BOWL
9. COVER-GOV. HSG.	50. VENT BAFFLE-PRI. METERING BODY
10. SPRING-GOV.	51. METERING BODY-PRI.
11. RETAINER-GOV. DIAPHRAGM LINK	52. JET(2)-PRI. MAIN
12. NUT-GOV. LEVER	53. VALVE-PRI. ENRICHMENT (POWER)
13. LOCKWASHER-GOV. LEVER	54. GASKET-PRI. ENRICHMENT VALVE
14. LEVER-GOV.	55. CAP(2)-IDLE LIMITER
15. VACUUM LINE-SEC. CONTROL VALVE (1975)	56. NEEDLE(2)-IDLE ADJUSTING
16. SCREW & LKWSHR(3)-GOV. HSG.	57. SEAL(2)-IDLE ADJ. NEEDLE
17. GOV. HSG. ASSY.	58. GASKET-PRI. METERING BLOCK
18. SCREW & LOCKWASHER(4)-GOV. DIAPHRAGM COVER	59. FUEL PIPE-CROSS OVER
19. COVER & SPRING-GOV. DIAPHRAGM	60. O-RING(2)-CROSS OVER FUEL PIPE
20. DIAPHRAGM ASSY.-GOV.	61. TUBE-FUEL LINE
21. JET-GOV. BYPASS (A)	62. O-RING(2)-FUEL LINE TUBE
22. JET-GOV. BYPASS (B)	63. SCREW(4)-SEC. FUEL BOWL
23. SEAL-GOV. HSG.	64. GASKET(4)-SEC. FUEL BOWL SCREW
24. GASKET-GOV. HSG.	65. BOWL-SEC. FUEL
24A. GASKET(2)-GOV. HSG.(SOME MODELS)	66. NEEDLE & SEAT ASSY.-SEC.
25. RETAINER-SEC. DIAPHRAGM LINK	67. BAFFLE PLATE-SEC. N/S
26. SCREW & LKWSHR(3)-SEC. DIAPHRAGM HOUSING	68. RETAINER-FLOAT
27. SEC. DIAPHRAGM HSG. ASSY.	69. FLOAT & SPRING ASSY.-SEC.
28. SCREW & LOCKWASHER(4)-SEC. DIAPHRAGM COVER	70. PLUG-SIGHT LEVEL
29. COVER & SPRING-SEC. DIAPHRAGM (1975 WITH ATTACHED SEC. CONTROL VALVE)	71. GASKET-SIGHT LEVEL PLUG
30. DIAPHRAGM ASSY.-SECONDARY	72. GASKET-SEC. FUEL BOWL
31. CHECK BALL-SEC. DIAPHRAGM HSG.	73. METERING BODY-SEC.
32. GASKET-SEC. DIAPHRAGM HSG.	74. JET(2)-SEC. MAIN
33. FITTING-FUEL INLET	75. VALVE-OVERRUN (SOME MODELS)
34. GASKET-FITTING	76. GASKET-OVERRUN VALVE
35. SCREEN-FUEL INLET	77. GASKET-SEC. METERING BODY
36. SCREW(4)-PRI. FUEL BOWL	78. WASHER(2)-BALANCE TUBE
37. GASKET(4)-PRI. FUEL BOWL	79. O-RING(2)-BALANCE TUBE
38. BOWL-PRI. FUEL	80. TUBE-BALANCE
39. NEEDLE & SEAT ASSY.-PRI.	81. SCREW & FLATWSHR(7)-THROTTLE BODY
40. BAFFLE PLATE-PRI. N/S	82. SCREW & LKWSHR(7)-THROTTLE BODY
41. RETAINER-FLOAT	83. THROTTLE BODY ASSY.
	84. GASKET-THROTTLE BODY
	85. SCREW-PUMP DISC. NOZZLE
	86. GASKET(2)-PUMP NOZZLE
	87. NOZZLE-PUMP DISC.
	88. NEEDLE VALVE-PUMP DISC.
	89. MAIN BODY ASSY.

# SPECIAL INSTRUCTIONS



## ADJUSTMENTS

