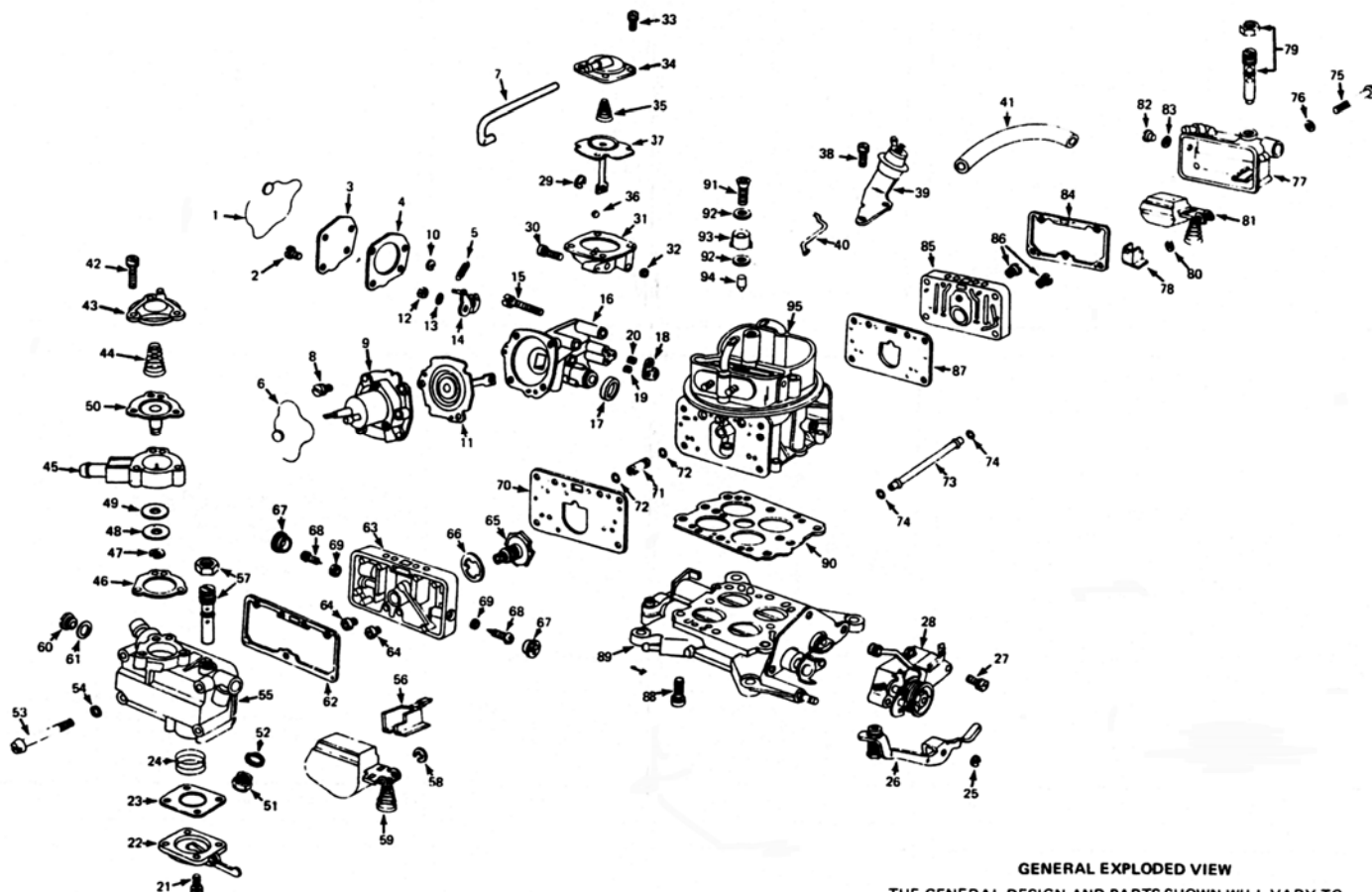


INSTRUCTION SHEET

HOLLEY CARBURETOR MODEL 4150EG

50-555-1



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: ON SOME MODELS UNHOOK HEAVY SAFETY SPRING ON THROTTLE LEVER ASSEMBLY FOR EASIER ACCESS TO SCREWS (27) HOLDING ASSEMBLY TO CARBURETOR. RECORD JET SIZES AND LOCATION FOR REASSEMBLY.

NOMENCLATURE

REF. NO.	REF. NO.
1. SEAL & WIRE - COVER	28. HOUSING ASSY - THROTTLE OPERATING SHAFT
2. SCREW & LKWSHR. (4) - COVER	29. E-CLIP - SEC. DIAPH. STEM
3. COVER - GOVERNOR HOUSING	30. SCREW & LKWSHR. (3) - SEC. DIAPHRAGM HOUSING
4. GASKET - GOVERNOR COVER	31. SECONDARY DIAPH. HOUSING ASSY.
5. SPRING - GOVERNOR	32. GASKET - SEC. DIAPHRAGM HOUSING
6. SEAL & WIRE - DIAPHRAGM COVER	33. SCREW & LKWSHR. (4) - COVER
7. HOSE - GOV. TO SEC. DIAPHRAGM COVER	34. COVER - SEC. DIAPHRAGM
8. SCREW & LKWSHR. (4) - DIAPHRAGM & SOLENOID	35. SPRING - SEC. DIAPHRAGM
9. COVER ASSY - DIAPHRAGM & SOLENOID	36. BALL - SEC. VACUUM CHECK
10. E-CLIP - DIAPHRAGM STEM RETAINER	37. DIAPHRAGM - SECONDARY
11. DIAPHRAGM ASSEMBLY	38. SCREW & LKWSHR. (2) - THROTTLE POSITIONER
12. NUT - GOVERNOR LEVER	39. THROTTLE POSITIONER
13. LOCKWASHER - GOVERNOR LEVER	40. LINK - THROTTLE POSITIONER
14. LEVER - GOVERNOR	41. HOSE - VENT CONNECTOR
15. SCREW & LKWSHR. (3) - GOVERNOR HOUSING	42. SCREW & LKWSHR. (3) - BOWL VENT ASSY. (CALIF.)
16. HOUSING ASSEMBLY	43. COVER - VENT ASSY.
17. SEAL - GOVERNOR HOUSING	44. SPRING - DIAPHRAGM
18. GASKET - GOVERNOR HOUSING	45. HOUSING ASSY - BOWL VENT
19. JET "A" - GOVERNOR HOUSING	46. GASKET - HOUSING
20. JET "B" - GOVERNOR HOUSING	47. E-CLIP - BOWL VENT VALVE
21. SCREW & LKWSHR. (4) - COVER	48. WASHER - VENT VALVE
22. COVER ASSY. - PUMP DIAPHRAGM	49. VALVE - VENT
23. DIAPHRAGM ASSY. - PUMP	50. DIAPHRAGM - VENT VALVE
24. SPRING - DIAPHRAGM	51. FITTING - FUEL INLET
25. E-CLIP - LEVER	
26. LEVER ASSY. - PUMP	
27. SCREW & LKWSHR. (3) - THROTTLE OPERATING SHAFT HOUSING	

REF. NO.	REF. NO.
52. GASKET - FITTING	75. SCREW (4) - SEC. FUEL BOWL
53. SCREW (4) - PRI. FUEL BOWL	76. GASKET (4) - SEC. FUEL BOWL SCREW
54. GASKET (4) - PRI. FUEL BOWL SCREW	77. BOWL - SEC. FUEL
55. BOWL - PRI. FUEL	78. BAFFLE PLATE
56. BAFFLE PLATE	79. NEEDLE & SEAT ASSY. - SEC.
57. NEEDLE & SEAT ASSY. - PRI.	80. E-CLIP - FLOAT RETAINER
58. E-CLIP - FLOAT RETAINER	81. FLOAT & SPRING ASSY. - SEC.
59. FLOAT & SPRING ASSY. - PRI.	82. PLUG - FUEL LEVEL
60. PLUG - FUEL LEVEL	83. GASKET - PLUG
61. GASKET - PLUG	84. GASKET - SEC. FUEL BOWL
62. GASKET - PRI. FUEL BOWL	85. METERING BLOCK - SEC.
63. METERING BLOCK - PRI.	86. JETS (2) - SEC. MAIN
64. JET (2) - PRI. MAIN	87. GASKET - SEC. METERING BLOCK
65. VALVE - ENRICHMENT	88. SCREW & LKWSHR. (8) - THROTTLE BODY
66. GASKET - ENRICHMENT VALVE	89. THROTTLE BODY ASSY.
67. CAP (2) - IDLE LIMITER	90. GASKET - THROTTLE BODY
68. NEEDLE (2) - IDLE ADJUSTING	91. SCREW - PUMP DISC. NOZZLE
69. GASKET (2) - IDLE ADJUSTING NEEDLE	92. GASKET (2) - PUMP NOZZLE
70. GASKET - PRI. METERING BLOCK	93. NOZZLE - PUMP DISC.
71. CONNECTOR - PUMP CHANNEL	94. NEEDLE - PUMP DISC.
72. O-RING (2) - CONNECTOR	95. MAIN BODY ASSEMBLY
73. TUBE - FUEL LINE	
74. O-RING (2) - FUEL LINE	

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 FLOATS, SOLENOIDS OR PARTS CONTAINING RUBBER MATERIAL IN CLEANING SOLVENTS.

REASSEMBLY

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

ADJUSTMENTS

SPECIAL INSTRUCTIONS

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

THROTTLE BODY GASKET (90)- MAKE SURE HOLES ARE PROPERLY MATCHED TO THROTTLE BODY TORQUE BODY SCREWS TO 50 INCH POUNDS

ENRICHMENT VALVE (65)- INSTALLATION- TORQUE TO 100 IN LBS

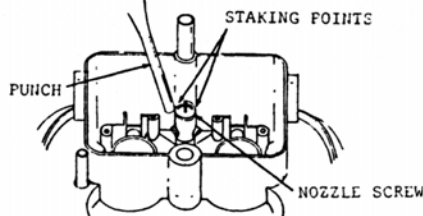
PRIMARY AND SECONDARY FUEL BOWL (55), (77)- BEFORE INSTALLING, MAKE DRY FLOAT LEVEL ADJUSTMENT SEE FIG. 3

BOWL SCREW INSTALLATION (53), (75) INSTALL GASKETS (54), (76) ON SCREWS BEFORE INSTALLING, THEN TORQUE EVENLY IN STAGES TO 40 INCH POUNDS

FUEL LINE TUBE (73) INSTALL O RINGS (74) ON THE EXTREME ENDS OF THE TUBE, THEY WILL ROLL ON THE TUBE WHEN INSTALLING THE FUEL BOWL

IDLE ADJUSTING NEEDLES (68)- TURN IN UNTIL LIGHTLY SEATED, THEN BACK OUT 1 TURN (DO NOT INSTALL IDLE LIMITER CAPS AT THIS TIME).

GOVERNOR DIAPHRAGM (11)- INSTALLATION- (FIG 2)

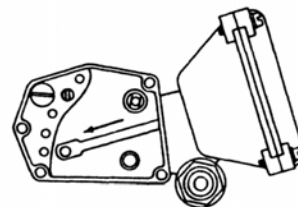


PUMP NOZZLE (93) AND SCREW (91) INSTALLATION- TIGHTEN SCREW SECURELY, USING A FLAT PUNCH AND HAMMER, STAKE THE NOZZLE SCREW IN POSITION. (CARE SHOULD BE USED WHEN STAKING THE NOZZLE SO AS NOT TO USE EXCESSIVE FORCE). REMOVE ANY CHIPS FROM CARBURETOR BODY.

PUMP DISCHARGE NOZZLE SCREW STAKING

FIG. 1

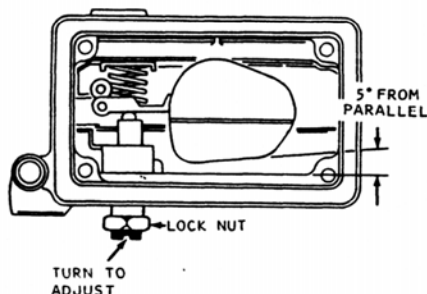
INSTALL COVER WITH THE SCREWS FINGER TIGHT. PULL THE DIAPHRAGM ROD AS FAR AS IT WILL GO AND THEN TIGHTEN SCREWS EVENLY WHILE MAINTAINING DIAPHRAGM STRETCHED IN THIS POSITION.



INSTALLING GOVERNOR DIAPHRAGM

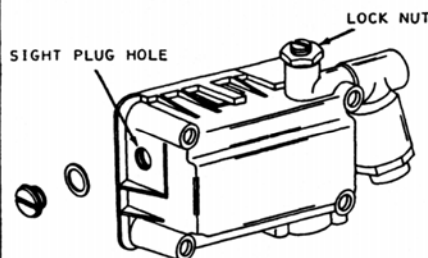
FIG. 2

FLOAT BOWL INVERTED, TURN NEEDLE SEAT ASSY. UNTIL FLOAT SURFACE IS 5" FROM PARALLEL WITH THE SURFACE DIRECTLY BELOW THE FLOAT. TIGHTEN LOCKNUT.



DRY FLOAT LEVEL ADJUSTMENT

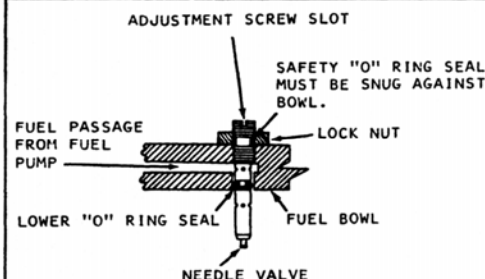
FIG. 3



1. TRUCK SETTING ON LEVEL SURFACE AND ENGINE RUNNING.
2. REMOVE SIGHT LEVEL PLUG FROM BOWL.
3. ADJUST NEEDLE SEAT ASSY. SO FUEL LEVEL WILL BE AT BOTTOM EDGE OF SIGHT PLUG HOLE. (PLUS OR MINUS 1/32" TOLERANCE.)
4. TIGHTEN LOCK NUT.

WET FLOAT LEVEL ADJUSTMENT

FIG. 4

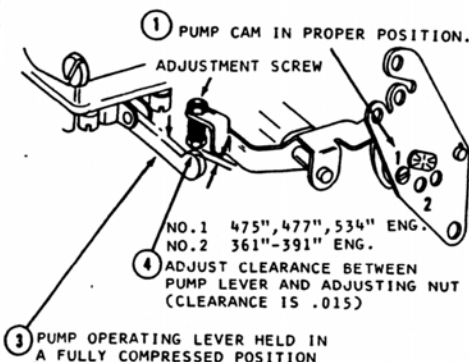


THE EXCLUSIVE SEALING FEATURES OF THIS ASSEMBLY PROVIDE SAFE ADJ. OF FUEL LEVEL WHILE ENGINE IS RUNNING.

SAFETY SEAL ADJUSTABLE FUEL VALVE

FIG. 5

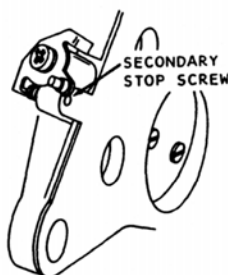
2 HOLD THROTTLE IN WIDE OPEN POSITION



PUMP ADJUSTMENT

FIG. 6

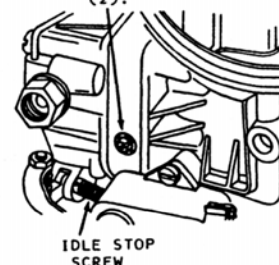
SECONDARY THROTTLE STOP SCREW, BACK OUT UNTIL SECONDARY THROTTLE PLATES ARE CLOSED, TURN SCREW IN UNTIL IT CONTACTS STOP, THEN TURN SCREW IN 1/4 TURN MORE.



SECONDARY THROTTLE STOP ADJUSTMENT

FIG. 7

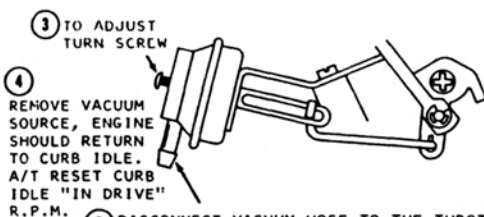
IDLE ADJ. NEEDLE (2).



SLOW IDLE ADJUSTMENT

FIG. 8

1 ENGINE AT OPERATING TEMPERATURE AND CURB IDLE ADJUSTED. AUTOMATIC TRANSMISSION IN NEUTRAL SET IDLE 100 R.P.M. ABOVE SPECIFIED "IN DRIVE" R.P.M.



THROTTLE POSITIONER (MODULATOR) ADJUSTMENT

FIG. 9

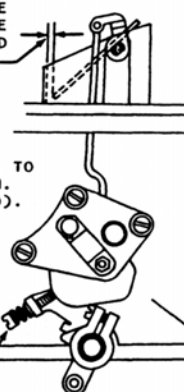
ENGINE DISPLACEMENT	M/T	A/T
5.9L (361CID) V8	1500	1600
6.4L (391CID) V8	1200	1100
7.8L (477CID) V8	1100	N/A
8.8L (534CID) V8	1000	1150

ALL SETTINGS +OR- 50 R.P.M.

2 INSERT .375" GAUGE BETWEEN LOWER EDGE OF CHOKE PLATE AND AIR HORN WALL.

1 PULL CHOKE CONTROL TO FULL CHOKE POSITION. (CHOKE PLATE CLOSED).

3 GAUGE IN PLACE CHECK FAST IDLE SPEED. IF NECESSARY ADJUST FAST IDLE SPEED USING FAST IDLE ADJUSTING SCREW.



FAST IDLE ADJUSTMENT

FIG. 10