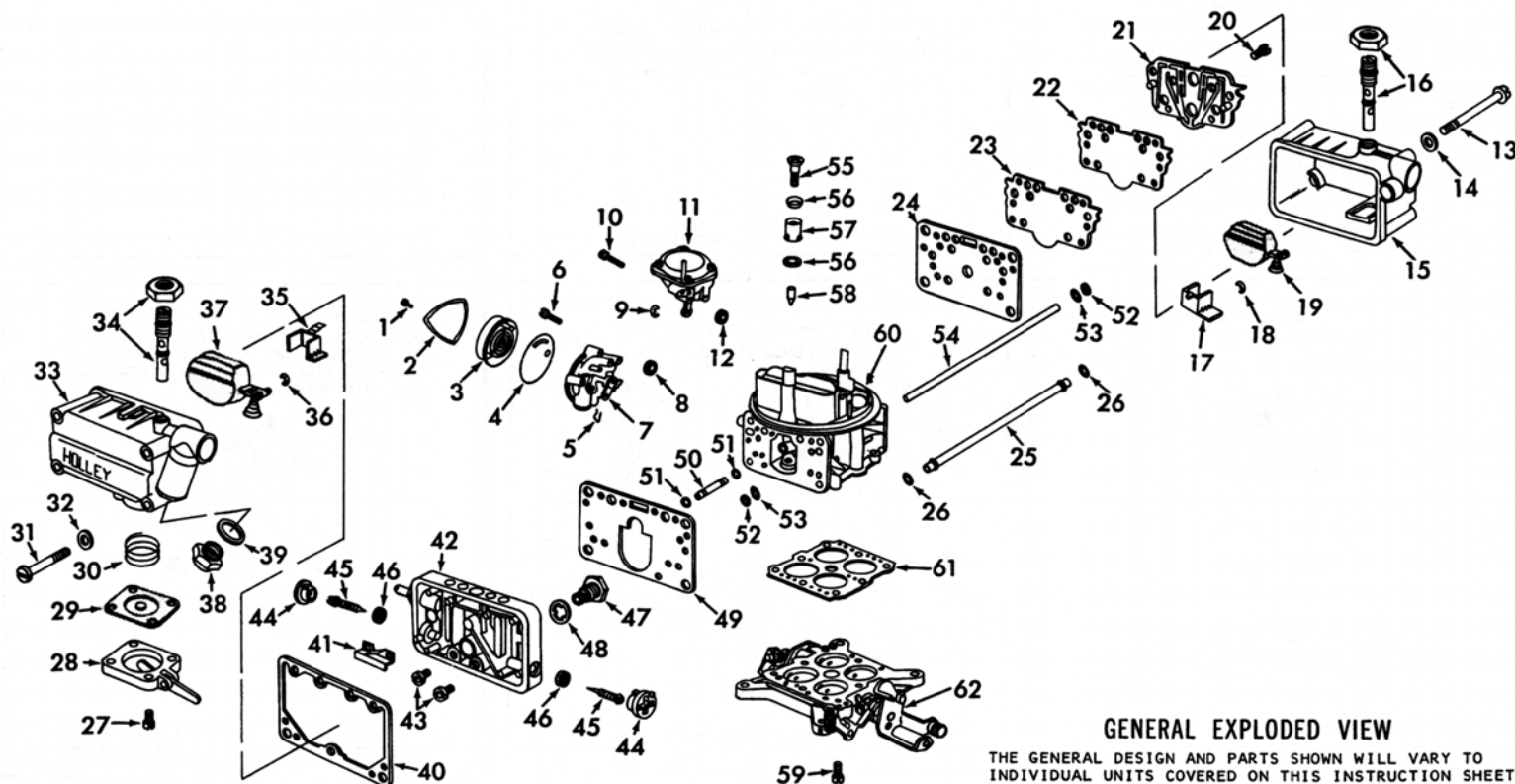


INSTRUCTION SHEET

HOLLEY CARBURETOR—MODEL 4160C

(ADJUSTABLE NEEDLE & SEAT)

IS-50-528



GENERAL EXPLODED VIEW

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

NOMENCLATURE

REF. NO.	REF. NO.
1. SCREW (3)- RETAINER	32. GASKET (4)- PRI. BOWL SCREW
2. RETAINER- CHOKE COVER	33. BOWL- PRI. FUEL
3. CHOKE COVER ASSY.	34. NEEDLE & SEAT ASSY.- PRI.
4. GASKET- CHOKE COVER	35. BAFFLE- PRI. FUEL
5. RETAINER- CHOKE ROD	36. RETAINER- FLOAT
6. SCREW & LOCKWASHER (3)- CHOKE HOUSING	37. FLOAT & SPRING ASSY. PRI.
7. CHOKE HOUSING ASSY.	38. FITTING- FUEL INLET
8. GASKET- CHOKE HOUSING	39. GASKET- FITTING
9. RETAINER- SEC. DIAPHRAGM LINK	40. GASKET- PRI. FUEL BOWL
10. SCREW & LOCKWASHER (3)- SEC. DIAPH. HSG.	41. VENT BAFFLE- PRI. MET. BODY
11. SEC. DIAPHRAGM HSG. ASSY.	42. METERING BODY- PRI.
12. GASKET- SEC. DIAPH. HSG.	43. JETS (2)- MAIN
13. SCREW (4)- SEC. FLOAT BOWL	44. CAP (2)- IDLE LIMITER
14. GASKET (4)- SEC. BOWL SCREW	45. NEEDLE (2)- IDLE ADJ.
15. BOWL- SEC. FUEL	46. SEAL (2)- IDLE ADJ. NEEDLE
16. NEEDLE & SEAT ASSY.- SEC.	47. VALVE- PRI. ENRICHMENT (POWER)
17. BAFFLE- SEC. FUEL	48. GASKET- PRI. ENRICHMENT VALVE
18. RETAINER- FLOAT	49. GASKET- PRI. METERING BODY
19. FLOAT & SPRING ASSY.- SEC.	50. TUBE- PUMP PASSAGE
20. SCREW (6)- SEC. METERING BODY	51. O-RING (2)- TUBE
21. METERING BODY- SEC.	52. WASHER (2)- BALANCE TUBE
22. GASKET- METERING BODY	53. O-RING (2)- BALANCE TUBE
23. PLATE- METERING BODY	54. TUBE- BALANCE
24. GASKET- FUEL BOWL & MET. BODY	55. SCREW- PUMP NOZZLE
25. TUBE- FUEL LINE	56. GASKET (2)- PUMP NOZZLE
26. O-RING (2)- FUEL LINE TUBE	57. NOZZLE- PUMP DISC.
27. SCREW & LOCKWASHER (4)- PUMP COVER	58. NEEDLE- PUMP DISC. CHECK
28. COVER ASSY.- PUMP DIAPHRAGM	59. SCREW & LOCKWASHER (6)- THROTTLE BODY
29. PUMP DIAPHRAGM ASSY.	60. MAIN BODY ASSY.
30. SPRING- PUMP DIAPHRAGM	61. GASKET- THROTTLE BODY
31. SCREW (4)- PRI. FUEL BOWL	62. THROTTLE BODY ASSY.

DISASSEMBLY

USE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION. SECONDARY THROTTLE DIAPHRAGM ASSY. IF TAKEN APART AND DIAPHRAGM USED OVER, BE CAREFUL NOT TO TEAR DIAPHRAGM WHEN REMOVING OR INSTALLING COVER SCREWS.

CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL USING A COLD IMMERSION TYPE CARBURETOR CLEANER. 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 ASSEMBLYS WITH ATTACHED PLASTIC PARTS FOR A LONG PERIOD OF TIME. DO NOT SOAK ANY PARTS CONTAINING RUBBER, FLOATS OR DIAPHRAGM ASSYS.

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 (61)- BE SURE HOLES ARE PROPERLY MATCHED TO THROTTLE BODY. TORQUE THROTTLE BODY SCREWS TO 50 INCH LBS.

BALANCE TUBE (54)- INSTALLATION- SEE. FIG. 1

ENRICHMENT VALVE (47)- INSTALL AND TORQUE TO 100 INCH LBS.

PRI. & SEC. FUEL BOWL (33)(15)- BEFORE INSTALLING MAKE DRY FLOAT LEVEL ADJUSTMENT.

BOWL SCREW INSTALLATION (13)(31)- INSTALL GASKETS (14)(32) ON SCREWS BEFORE INSTALLING. THEN TORQUE EVENLY IN STAGES TO 40 INCH LBS.

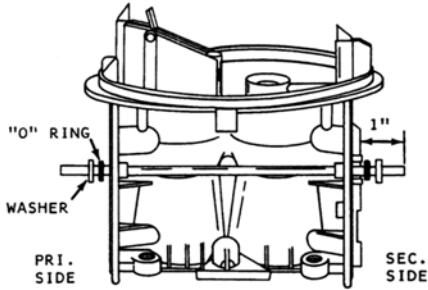
FUEL LINE TUBE (25)- INSTALL O-RINGS (26)- ON THE EXTREME ENDS OF THE TUBE, THEY WILL ROLL ON THE TUBE WHEN INSTALLING THE FUEL BOWL.

IDLE ADJUSTING NEEDLES (45)- TURN IN UNTIL LIGHTLY SEATED, THEN BACK OUT 1 1/2 TURNS. (DO NOT INSTALL IDLE LIMITER CAPS AT THIS TIME.)

O-RINGS- LUBRICATE LIGHTLY BEFORE INSTALLING.

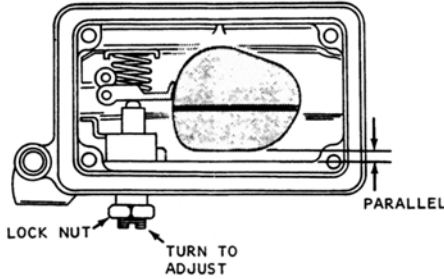
ADJUSTMENTS

ADJUST THE BALANCE TUBE SO THAT THE DISTANCE FROM THE METERING BODY TO END OF BALANCE TUBE IS 1" ON SEC. SIDE.

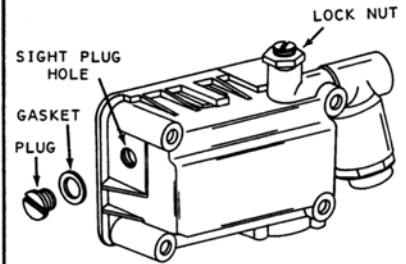


BALANCE TUBE POSITION FIG. 1.

FLOAT BOWL INVERTED, TURN NEEDLE SEAT ASSY. UNTIL FLOAT SURFACE IS PARALLEL WITH THE SURFACE DIRECTLY BELOW THE FLOAT. TIGHTEN LOCK NUT.

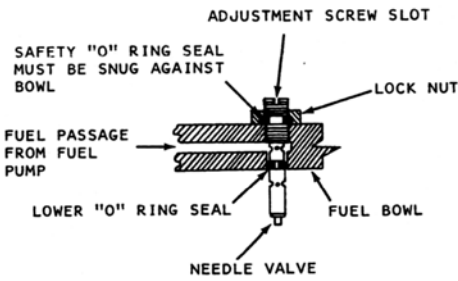


PRI. & SEC. DRY FLOAT LEVEL ADJUSTMENTS FIG. 2.



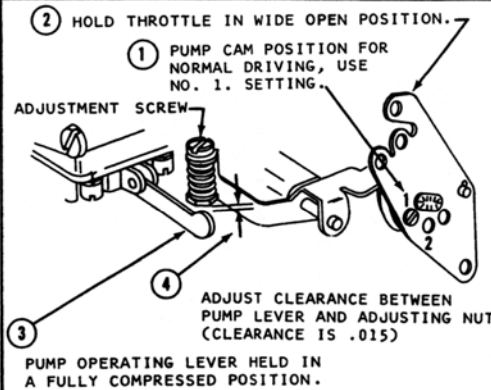
1. TRUCK SETTING ON LEVEL SURFACE AND ENGINE RUNNING.
2. REMOVE SIGHT LEVEL PLUG FROM BOWL.
3. ADJUST NEEDLE SEAT ASSY. SO FUEL LEVEL WILL BE AT BOTTOM EDGE OF SIGHT PLUG HOLE. (PLUS OR MINUS 1/32" TOLERANCE.)
4. TIGHTEN LOCK NUT.

PRI. & SEC. WET FLOAT LEVEL ADJUSTMENT FIG. 3.



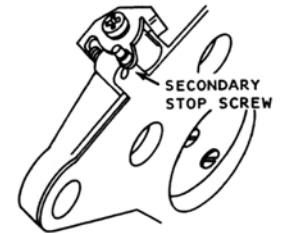
THE EXCLUSIVE SEALING FEATURES OF THIS ASSEMBLY PROVIDE SAFE ADJ. OF FUEL LEVEL WHILE ENGINE IS RUNNING.

SAFETY SEAL ADJUSTABLE FUEL VALVE FIG. 4.

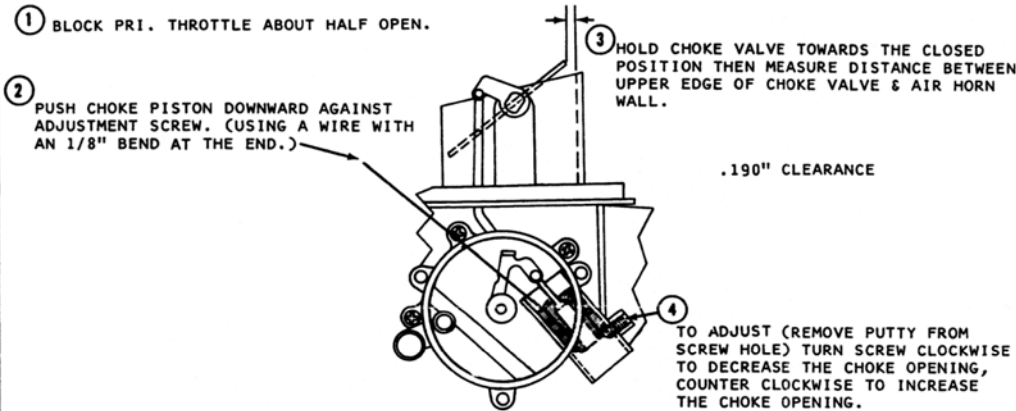


PUMP ADJUSTMENT FIG. 5.

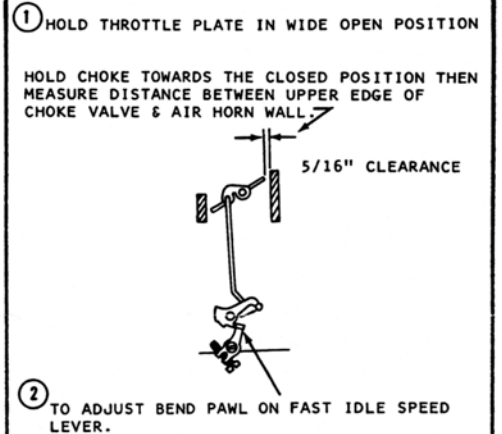
SECONDARY THROTTLE STOP SCREW, BACK OUT UNTIL SECONDARY THROTTLE PLATES ARE CLOSED. TURN SCREW IN UNTIL IT CONTACTS STOP, THEN TURN SCREW IN 1/2 TURN MORE.



SECONDARY THROTTLE STOP ADJUSTMENT FIG. 6.

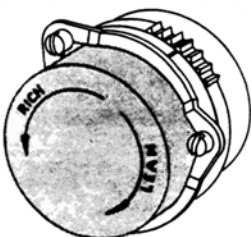


CHOKE PLATE PULLDOWN ADJUSTMENT FIG. 7.



UNLOADER ADJUSTMENT FIG. 8.

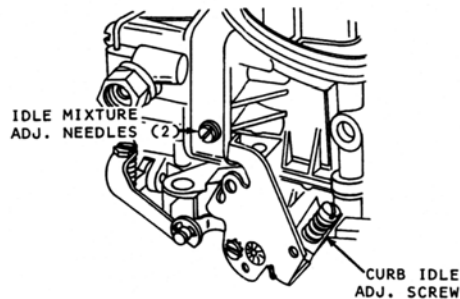
ALIGN MARK ON STAT COIL WITH PROPER INDEX MARK ON CHOKE HOUSING.



2 LEAN

AUTOMATIC CHOKE SETTING FIG. 9.

ENGINE AT OPERATING TEMP. REFER TO ENGINE DECAL FOR PROPER IDLE ADJUSTING PROCEDURE & SPECIFICATIONS.



SLOW IDLE ADJUSTMENT FIG. 10.