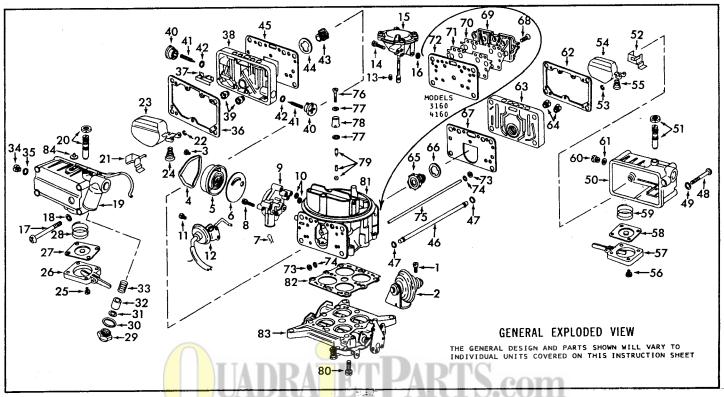
© 1982 TECHLIT CO. Printed in U.S.A.

(SOME MODELS)

j

INSTRUCTION SHEET OFF VEHICLE CARBURETOR SERVICE HOLLEY - MODELS 3160, 4150 4160



NOMENCLATURE

REF. REF. NO. 41. NEEDLE (2) - IDLE ADJ. 42. SEAL (2) - IDLE NEEDLE 43. POWER VALVE - PRI. 44. GASKET - POWER VALVE 45. GASKET - PRI. METERING BODY 46. TUBE - FUEL LINE 47. O-RING (2) - TUBE 48. SCREW (4) - SEC. FUEL BOWL 49. GASKET (4) - SEC. BOWL SCREW 50. BOWL - SEC. FUEL 51. NEEDLE & SEAT ASSY. - SEC. 52. BAFFLE PLATE - SEC. N/S 53. RETAINER - SEC. FLOAT 54. FLOAT ASSY. - SEC. 55. SPRING - SEC. FLOAT 56. SCREW & LOCKWASHER (4) - PUMP COVER 57. PUMP COVER ASSY. - (HI. PERF. CARB.) 58. PUMP DIAPHRAGM ASSY - (HI. PERF.) 1. SCREW & LOCKWASHER - DASHPOT 2. DASHPOT & BRACKET ASSY. 3. SCREW (3) - COVER CLAMP 4. CLAMP - CHOKE COVER 5. CHOKE COVER & SPRING ASSY. 6. GASKET - CHOKE COVER 7. RETAINER - CHOKE ROD 8. SCREW & LOCKWASHER (3) - CHOKE HOUSING 9. CHOKE HOUSING ASSY. 10. GASKET - CHOKE HOUSING SCREW & LOCKWASHER (2) - CHOKE DIAPHRAGM ASSY. CHOKE DIAPHRAGM ASSY. DIAPHRAGM ASSY. (SOME MODELS) 3. RETAINER - SEC. DIAPHRAGM LINK 14. SCREW & LOCKWASHER (3) - DIAPH. HOUSING ASSY. SECONDARY THROTTLE 6. GASKET - SEC. DIAPH. HOUSING 17. SCREW (4) - PRI. FUEL BOWL 18. GASKET (4) - PRI. BOWL SCREW 19. BOWL - PRI. FUEL 20. NEEDLE & SEAT ASSY. - PRI. 21. BAFFLE PLATE - PRI. N/S 22. RETAINER - PRI. FLOAT 23. FLOAT ASSY. - PRI. 24. SPRING - PRI. FLOAT 25. SCREW & LOCKWASHER (4) - PUMP COVER 26. PUMP COVER ASSY. 27. PUMP COVER ASSY. 28. SPRING - PUMP PUMP DIAFFRAGG ASSI = (III. FEM. SPRING - PUMP PLUG - SIGHT LEVEL GASKET - PLUG GASKET - PLUG GASKET - SEC. FUEL BOWL METERING BODY - SEC. STAMPED ASSISTANCE - SEC. (SOME MODELS) 64. JET (2) - SEC. MAIN 65. POWER VALVE - SEC. (SOME MODELS) OVERRUN VALVE ON TRUCKS STAMPED 215 66. GASKET - VALVE 67. GASKET - SEC. METERING BODY 68. SCREW (6) - SEC. METERING BODY 69. METERING BODY - SEC. 70. GASKET - SEC. METERING BODY PLATE 71. PLATE - SEC. METERING BODY 72. GASKET - SEC. METERING BODY 73. WASHER (2) - BALANCE TUBE (4160)(3160) 74. O-RING (2) - BALANCE TUBE (4160)(3160) 75. BALANCE TUBE (4160)(3160) 76. SCREW - PUMP DISC. NOZZLE 77. GASKET (2) - PUMP DISC. NOZZLE 78. NOZZLE - PUMP DISC. (OR BALL AND WEIGHT) 80. SCREW & LOCKWASHER (8) - THROTTLE BODY 81. MAIN BODY ASSY. 82. GASKET - THROTTLE BODY 83. THROTTLE BODY ASSY. 84. AIR VENT VALVE OR CAP 28. SPRING - PUMP 29. FITTING - FUEL INLET 30. GASKET - FITTING 31. GASKET - FILTER 31. GASKET - FILTER 32. FILTER - FUEL 33. SPRING - FILTER 34. PLUG - SIGHT LEVEL 35. GASKET - PLUG 36. GASKET - PRI. FUEL BOWL 37. VENT BAFFLE - METERING BODY 38. METERING BODY - PRI. 39. JET (2) - PRI. MAIN 40. CAP (2) - IDLE LIMITER (SOME MODELS)

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 TAKEN FROM PRIMARY SIDE. SECONDARY THROTTLE DIAPHRAGM ASSY. (15) - IF TAKEN APART BE CAREFUL NOT TO TEAR DIAPHRAGM WHEN TAKING OUT OR INSTALLING COVER SCREWS.

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.

REASSEMBLY

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

SPECIAL INSTRUCTIONS

THROTTLE BODY GASKET (82) - BE SURE HOLES ARE PROPERLY MATCHED TO

POWER VALVE INSTALLATION

SOME KIT APPLICATIONS - PRI. & SEC. VALVES ARE THE SAME.

SOME KIT APPLICATIONS - PRI. SIDE, USE THE VALVE WITH THE SMALLEST IDENTIFYING NUMBER. (STAMPED ON SIDE OF VALVE.)

SPECIAL NOTE: HI. PERF. CARB.

CARB. NO. R4778AAA PRI. 8.5 SEC. NONE

R4778AAA PRI. 8.5 SEC. NONE

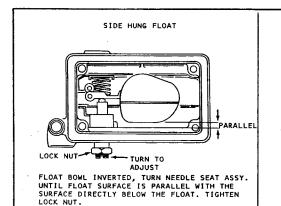
R4780AAA PRI. 6.5 SEC. 8.5 POWER VALVE INSTALLATION

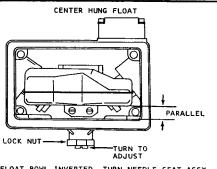
NEEDLES (41) - TURN IN UNTIL LIGHTLY SEATED THEN BACK OUT IDLE ADJ. NEEDLES (1) - IDRN IN ONTIL LIGHTLY STATED WHEN USED.)
TOTURN. (DO NOT INSTALL IDLE LIMITER CAPS AT THIS TIME WHEN USED.)
NOTE: SOME LATE CARBURETORS HAVE A "BACKWARDS" IDLE ADJUSTMENT,
TURN NEEDLES IN TO RICHEN THE MIXTURE, BACK NEEDLES OUT TO LEAN THE MIXTURE.

PRI. & SEC. FUEL BOWL - BEFORE INSTALLING MAKE DRY FLOAT LEVEL ADJUSTMENT.

O-RINGS - LUBRICATE LIGHTLY BEFORE INSTALLING.

ADJUSTMENTS

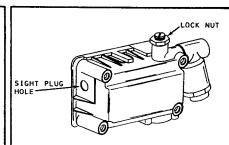




FLOAT BOWL INVERTED, TURN NEEDLE SEAT ASSY. UNTIL FLOAT SURFACE IS PARALLEL WITH THE SURFACE DIRECTLY BELOW THE FLOAT.TIGHTEN LOCK NUT.

DRY FLOAT LEVEL ADJUSTMENTS

FIG. 1



1. CAR SETTING ON LEVEL SURFACE & ENGINE

RUNNING.

RUNNING.

RUNNING.

RUNNING.

RUNNING.

RUNNING.

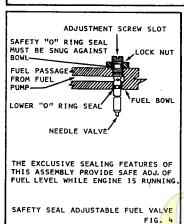
REMOVE SIGHT LEVEL PLUG FROM BOWL.

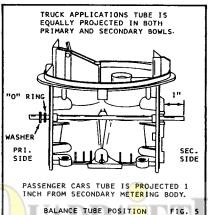
ADJUST NEEDLE SEAT ASSY. SO FUEL LEVEL WILL BE AT BOTTOM EDGE OF SIGHT PLUG HOLE. (PLUS OR MINUS 1/32" TOLERANCE.)

4. TIGHTEN LOCK NUT.

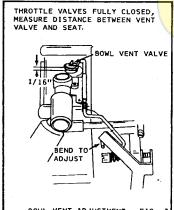
F1G. 2

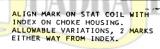
WET FLOAT LEVEL ADJUSTMENT FIG. 3

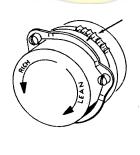


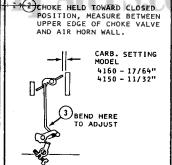


2)HOLD THROTTLE IN WIDE OPEN POSITION-ADJUSTMENT SCREW 1) PUMP CAM POSITION FOR NORMAL DRIVING, USE NO. 1 SETTING (O) (4) ADJUST CLEARANCE BETWEEN PUMP LEVER AND ADJUSTING NUT (CLEARANCE IS .015) 3 PUMP OPERATING LEVER HELD IN A FULLY COMPRESSED POSITION PRI. & SEC. PUMP ADJUSTMENT FIG. 6

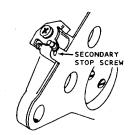








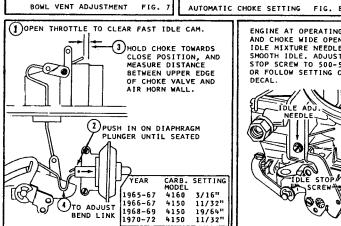
()THROTTLE HELD WIDE OPEN UNLOADER ADJUSTMENT FIG. 9 SECONDARY THROTTLE STOP SCREW, BACK OUT UNTIL SECONDARY THROTTLE PLATES ARE CLOSED. TURN SCREW IN UNTIL IT CONTACTS 5TOP, THEN TURN SCREW IN 1/2 - 3/4 TURNS MORE.



SECONDARY THROTTLE STOP ADJUSTMENT

FIG. 10

FIG.

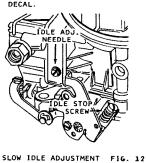


VACUUM BREAK ADJUSTMENT.

FIG. 11

4)TO ADJUST BEND LINK

ENGINE AT OPERATING TEMP. AND CHOKE WIDE OPEN, ADJUST IDLE MIXTURE NEEDLES TO A SMOOTH IDLE. ADJUST IDLE STOP SCREW TO 500-550 R.P.M. OR FOLLOW SETTING ON ENGINE



PLACE FAST IDLE SCREW ON HIGH STEP OF FAST IDLE CAM AND SET TO 1600-1800 R.P.M. OR FOLLOW SETTING ON ENGINE DECAL. FAST IDLE

FAST IDLE ADJUSTMENT FIG. 13

