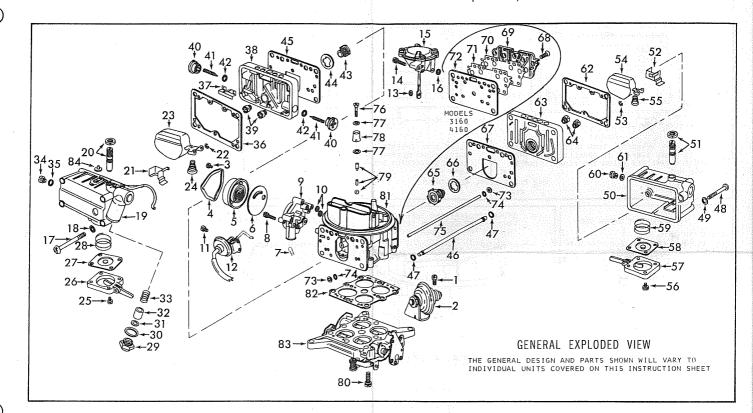
INSTRUCTION SHEET HOLLEY CARBURETOR — MODELS 3160, 4150, 4160



NOMENCLATURE

NUMENCLATURE				
RE NO	F.	REF.	:	
2. 3. 4. 5. 6. 7. 8.	SCREW & LOCKWASHER - DASHPOT DASHPOT & BRACKET ASSY. SCREW (3) - COVER CLAMP CLAMP - CHOKE COVER CHOKE COVER & SPRING ASSY. GASKET - CHOKE COVER RETAINER - CHOKE ROD SCREW & LOCKWASHER (3) - CHOKE HOUSING CHOKE HOUSING ASSY. GASKET - CHOKE HOUSING SCREW & LOCKWASHER (2) - CHOKE DIAPHRAGM ASSY. CHOKE DIAPHRAGM ASSY.	42. 44. 45. 46. 47. 49. 51. 52.	NEEDLE (2) - IDLE ADJ. SEAL (2) - IDLE NEEDLE POWER VALVE - PRI. GASKET - POWER VALVE GASKET - PRI. METERING BODY TUBE - FUEL LINE O-RING (2) - TUBE SCREW (4) - SEC. FUEL BOWL GASKET (4) - SEC. BOWL SCREW BOWL - SEC. FUEL NEEDLE & SEAT ASSY SEC. BAFFLE PLATE - SEC. N/S RETAINER - SEC. FLOAT FLOAT ASSY SEC.	
13. 14.	(SOME MODELS) RETAINER - SEC. DIAPHRAGM LINK SCREW & LOCKWASHER (3) - DIAPH. HOUSING ASSY. DIAPH. HOUSING ASSY	55. 56. 57. 58.	SPRING - SEC. FLOAT SCREW & LOCKWASHER (4) - PUMP COVER PUMP COVER ASSY (HI. PERF. CARR.) PUMP DIAPHRAGM ASSY - (HI. PERF.) SPRING - PUMP	
16. 178. 118. 120. 221. 222. 224. 25. 26. 27. 28. 29. 333. 335. 337.	SECONDARY THROTTLE GASKET - SEC. DIAPH. HOUSING SCREW (4) - PRI. FUEL BOWL GASKET (4) - PRI. BOWL SCREW BOWL - PRI. FUEL NEEDLE & SEAT ASSY PRI. BAFFLE PLATE - PRI. N/S RETAINER - PRI. FLOAT FLOAT ASSY PRI. SPRING - PRI. FLOAT SCREW & LOCKWASHER (4) - PUMP COVER PUMP COVER ASSY. PUMP DIAPHRAGM ASSY. SPRING - PUMP FITTING - FUEL INLET GASKET - FILTER FILTER FIEL SPRING - FILTER FLITER FUEL SPRING - FILTER FLUE - SIGHT LEVEL GASKET - PLUG GASKET - PRI. FUEL BOWL VENT BAFFLE - METERING BODY	60. 61. 62. 64. 65. 66. 67. 68. 690. 71. 72. 734. 75. 76. 778. 79.	PLUG - SIGHT LEVEL GASKET - PLUG GASKET - SEC. FUEL BOWL METERING BODY - SEC. JET (2) - SEC. MAIN POWER VALVE - SEC. (SOME MODELS) OVERRUN VALVE ON TRUCKS STAMPED 215 GASKET - VALVE GASKET - VALVE GASKET - SEC. METERING BODY SCREW (6) - SEC. METERING BODY METERING BODY - SEC. GASKET - SEC. METERING BODY PLATE PLATE - SEC. METERING BODY WASHER (2) - BALANCE TUBE (4160)(3160 O-RING (2) - BALANCE TUBE (4160)(3160 SCREW - PUMP DISC. NOZZLE GASKET - USE (4160)(3160) SCREW - PUMP DISC. NOZZLE NOZZLE - PUMP DISC. NOZZLE - PUMP DISC. (OR BALL AND WEIGHT) SCREW & LOCKWASHER (8) - THROTTLE BOD MAIN BODY ASSY.	
31. 32. 33. 34. 35. 36. 37. 38.	GASKET - FILTER FILTER - FUEL: SPRING - FILTER PLUG - SIGHT LEVEL GASKET - PLUG GASKET - PRI, FUEL BOWL	76. 77. 78. 79. 80. 81. 82. 83.	SCREW - PUMP DISC. NOZZLE GASKET (2) - PUMP DISC. NOZZLE NOZZLE - PUMP DISC. NEEDLE VALVE - PUMP DISC. (OR BALL AND WEIGHT) SCREW & LOCKWASHER (8) - THROTTLE	

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 THROUGH 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 THROTTLE BODY

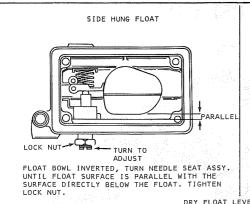
POWER VALVE INSTALLATION
SOME KIT APPLICATIONS - PRI. & SEC. VALVES ARE THE SAME.
SOME KIT APPLICATIONS - PRI. \$10E, USE THE VALVE WITH THE SMALLEST
IDENTIFYING NUMBER. (STAMPED ON SIDE OF VALVE.)
SPECIAL NOTE: HI. PERF. CARB.
CARB. NO. R4778AAA PRI. 8.5 SEC. NONE
R4778AAA PRI. 8.5 SEC. NONE
R47780AAA PRI. 6.5 SEC. 8.5

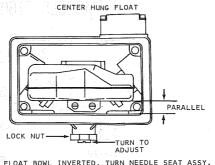
IDLE ADJ. NEEDLES (41) - TURN IN UNTIL LIGHTLY SEATED THEN BACK OUT 1 TURN. (DO NOT INSTALL IDLE LIMITER CAPS AT THIS TIME WHEN USED.)
NOTE: SOME LATE CARBURETORS HAVE A "BACKWARDS" IDLE ADJUSTMENT,
TURN NEEDLES IN TO RICHEN THE MIXTURE, BACK NEEDLES OUT TO LEAN THE MIXTURE.

PY 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.

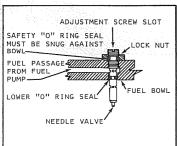
DRY FLOAT LEVEL ADJUSTMENTS FIG. 1

LOCK NUT SIGHT PLUG 0

1. CAR SETTING ON LEVEL SURFACE & ENGINE

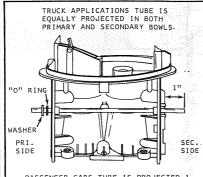
1. CAR SETTING ON LEVEL SURFACE & ENGINE RUNNING.
2. REMOVE SIGHT LEVEL PLUG FROM BOWL.
3. ADJUST NEEDLE SEAT ASSY. SO FUEL LEVEL WILL BE AT BOTTOM EDGE OF SIGHT PLUG HOLE. (PLUS OR MINUS 1/32" TOLERANCE.)
4. TIGHTEN LOCK NUT.

WET FLOAT LEVEL ADJUSTMENT FIG. 3



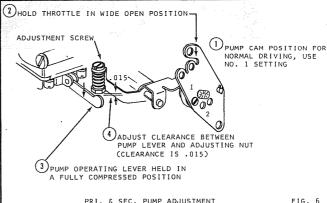
THE EXCLUSIVE SEALING FEATURES OF THIS ASSEMBLY PROVIDE SAFE ADJ. OF FUEL LEVEL WHILE ENGINE IS RUNNING

SAFETY SEAL ADJUSTABLE FUEL VALVE

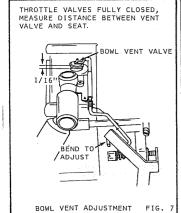


PASSENGER CARS TUBE IS PROJECTED 1 INCH FROM SECONDARY METERING BODY.

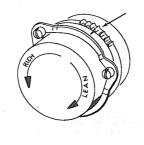
BALANCE TUBE POSITION FIG.



PRI. & SEC. PUMP ADJUSTMENT



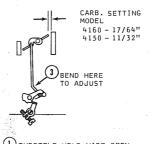
ALIGN MARK ON STAT COIL WITH INDEX ON CHOKE HOUSING. ALLOWABLE VARIATIONS, 2 MARKS EITHER WAY FROM INDEX.



AUTOMATIC CHOKE SETTING FIG. 8

2 CHOKE HELD TOWARD CLOSED POSITION, MEASURE BETWEEN UPPER EDGE OF CHOKE VALVE AND AIR HORN WALL.

F1G. 2



1) THROTTLE HELD WIDE OPEN

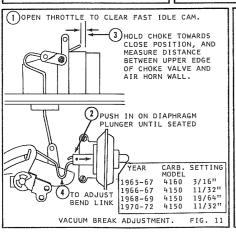
UNLOADER ADJUSTMENT FIG. 9 SECONDARY THROTTLE STOP SCREW, BACK OUT UNTIL SECONDARY THROTTLE PLATES ARE CLOSED. TURN SCREW IN UNTIL IT CONTACTS STOP, THEN TURN SCREW IN 1/2 - 3/4 TURNS MORE.



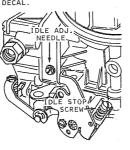
SECONDARY THROTTLE STOP ADJUSTMENT

FIG. 10

FIG

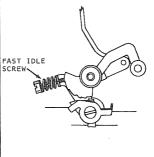


ENGINE AT OPERATING TEMP. AND CHOKE WIDE OPEN, ADJUST IDLE MIXTURE NEEDLES TO A SMOOTH IDLE. ADJUST IDLE STOP SCREW TO 500-550 R.P.M OR FOLLOW SETTING ON ENGINE DECAL.



SLOW IDLE ADJUSTMENT FIG. 12

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 ADJUSTMENT FIG. 13

