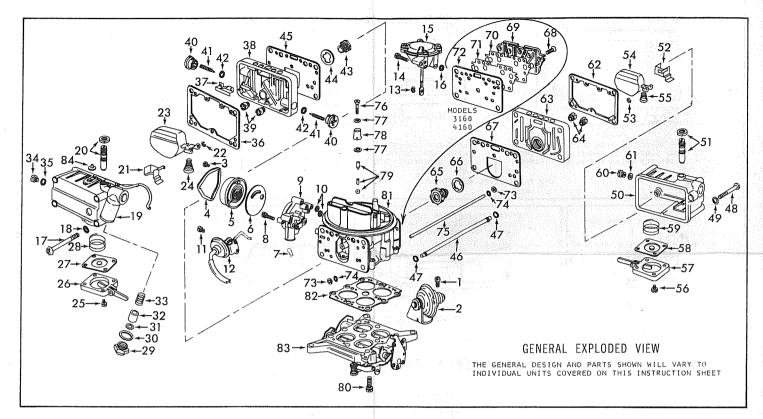
INSTRUCTION SHEET

HOLLEY CARBURETOR — MODELS 3160, 4150, 4160



NOMENCLATURE

TO METO	02111.0112	
REF.	REF.	
NO.	NO.	· ·
NO. 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 11. SCREW & LOCKWASHER (2) - CHOKE DIAPHRAGM ASSY. 12. CHOKE DIAPHRAGM ASSY. 13. CRETAINER - SEC. DIAPHRAGM LINK	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) - PUMM	The coverage of the control of the c
14. SCREW & LOCKWASHER (3) - DIAPH.	. 57. PUMP COVER ASSY CHI. PERF.	. CARB.)
HOUSING ASSY. 15. DIAPH. HOUSING ASSY SECONDARY THROTTLE	58. PUMP DIAPHRAGM ASSY - (HI. PE 59. SPRING - PUMP 60. PLUG - SIGHT LEVEL	ERF.)
16. GASKET - SEC. DIAPH. HOUSING 17. SCREW (4) - PRI. FUEL BOWL	61. GASKET - PLUG 62. GASKET - SEC. FUEL BOWL	
18. GASKET (4) - PRI. BOWL SCREW 19. BOWL - PRI. FUEL	63. METERING BODY - SEC. 64. JET (2) - SEC. MAIN	
20. NEEDLE & SEAT ASSY PRI. 21. BAFFLE PLATE - PRI. N/S 22. RETAINER - PRI. FLOAT	65. POWER VALVE - SEC. (SOME MODE OVERRUN VALVE ON TRUCKS STAM 66. GASKET - VALVE	
23. FLOAT ASSY PRI. 24. SPRING - PRI. FLOAT	67. GASKET - SEC. METERING BODY 68. SCREW (6) - SEC. METERING BOD	υΥ
25. SCREW & LOCKWASHER (4) - PUMP COVER 26. PUMP COVER ASSY.	69. METERING BODY - SEC. 70. GASKET -SEC. METERING BODY P 71. PLATE - SEC. METERING BODY	LATE
27. PUMP DIAPHRAGM ASSY. 28. SPRING - PUMP	72. GASKET - SEC. METERING BODY 73. WASHER (2) - BALANCE TUBE (41	
29. FITTING - FUEL INLET 30. GASKET - FITTING 31. GASKET - FILTER	74. O-RING (2) - BALANCE TUBE (41 75. BALANCE TUBE (4160)(3160) 76. SCREW - PUMP DISC. NOZZLE	ou)(3160.
32. FILTER - FUEL 33. SPRING - FILTER 34. PLUG - SIGHT LEVEL	77. GASKET (2) - PUMP DISC. NOZZL 78. NOZZLE - PUMP DISC. 79. NEEDLE VALVE - PUMP DISC.	.Е
35. GASKET - PLUG 36. GASKET - PRI. FUEL BOWL 37. VENT BAFFLE - METERING BODY 38. METERING BODY - PRI.	(OR BALL AND WEIGHT) 80. SCREW & LOCKWASHER (8) - THRO 81. MAIN BODY ASSY. 82. GASKET - THROTTLE BODY	TTLE BOD
39. JET (2) - PRI. MAIN 40. CAP (2) - IDLE LIMITER	83. THROTTLE BODY ASSY. 84. AIR VENT VALVE OR CAP	

(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 PARY 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

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 THROTTLE BODY

POWER VALVE INSTALLATION

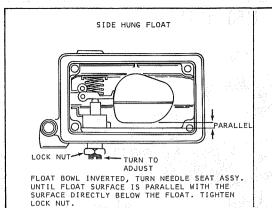
POWER VALVE INSTALLATION
SOME KIT APPLICATIONS - PRI. & SEC. VALVES ARE THE SAME.
SOME KIT APPLICATIONS - PRI. SIDE, USE THE VALVE WITH THE SMALLEST
IDENTIFYING NUMBER. (STAMPED ON SIDE OF VALVE.)
SPECIAL NOTE: HI. PERF. CARB.
CARB. NO. R47780AA PRI. 8.5 SEC. NONE
R4780AAA PRI. 8.5 SEC. NONE
R4780AAA 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.

 $\ensuremath{\mathsf{PRI}}$. § SEC. FUEL BOWL – BEFORE INSTALLING MAKE DRY FLOAT LEVEL ADJUSTMENT.

O-RINGS - LUBRICATE LIGHTLY BEFORE INSTALLING.

ADJUSTMENTS

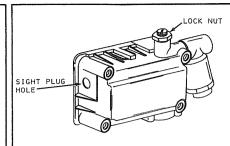


CENTER HUNG FLOAT (e e) PARALLEL LOCK NUT TURN TO

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.

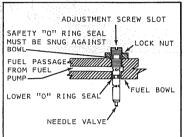
 2. REMOVE SIGHT LEVEL PLUG FROM BOWL.

 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.

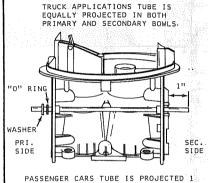
FIG. 2

WET FLOAT LEVEL ADJUSTMENT



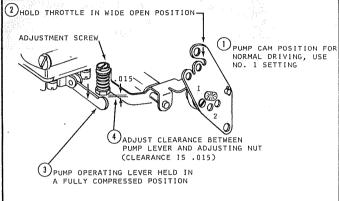
THE EXCLUSIVE SEALING FEATURES OF THIS ASSEMBLY PROVIDE SAFE ADJ. OF FUEL LEVEL WHILE ENGINE IS RUNNING.

SAFETY SEAL ADJUSTABLE FUEL VALVE

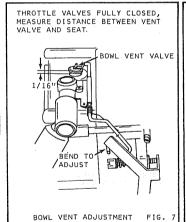


PASSENGER CARS TUBE IS PROJECTED 1 INCH FROM SECONDARY METERING BODY.

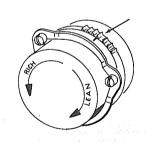
BALANCE TUBE POSITION



PRI. & SEC. PUMP ADJUSTMENT



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

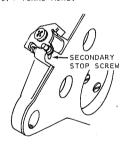


AUTOMATIC CHOKE SETTING FIG. 8

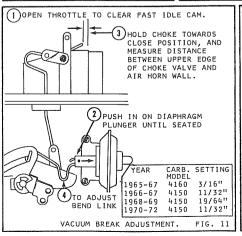
POSITION, MEASURE BETWEEN UPPER EDGE OF CHOKE VALVE AND AIR HORN WALL. CARB. SETTING MODEL 4160 - 17/64" 4150 - 11/32" (3) BEND HERE TO ADJUST (1) THROTTLE HELD WIDE OPEN

(2) CHOKE HELD TOWARD CLOSED

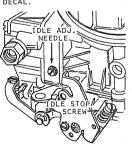
UNLOADER ADJUSTMENT FIG. SECONDARY THROTTLE STOP SCREW, BACK OUT UNTIL SECONDARY THROTTLE PLATES ARE CLOSED. TURN SCREW IN UNTIL IT CONTACTS STOP, THEN TURN SCREW IN 1/2 - 3/4 TURNS MORE.



SECONDARY THROTTLE STOP ADJUSTMENT



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

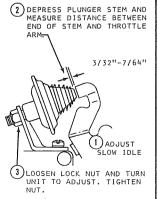


SLOW IDLE ADJUSTMENT FIG. 12

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

PLACE FAST IDLE SCREW ON HIGH

FAST IDLE ADJUSTMENT FIG. 13



(DASHPOT) SLOW CLOSING THROTTLE ADJ.

FIG.