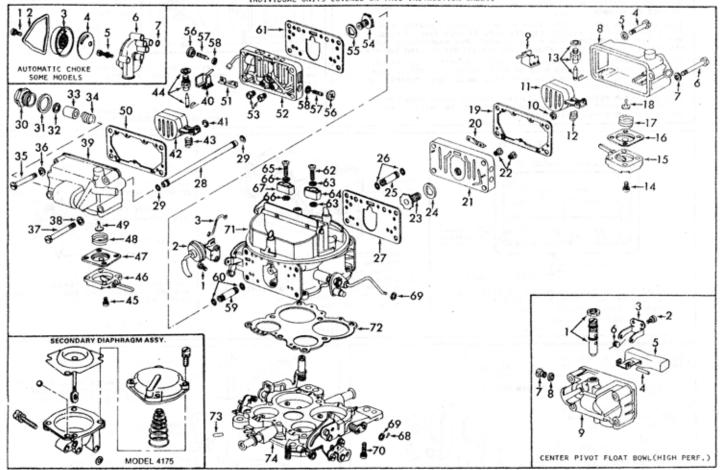
REF.

INSTRUCTION SHEET OFF VEHICLE CARBURETOR SERVICE **HOLLEY MODELS-4165, 4175**

GENERAL EXPLODED VIEW

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



73. PLUG - VACUUM TUBE 74. THROTTLE BODY ASSY.

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REF.

NO		NO.
1.	SCREW & LOCKWASHER (2)- CHOKE	38. GASKET (2)- FUEL BOWL SCREW
	DIAPHRAGM ASSY.	 FUEL BOWL ASSY. — PRI.
	CHOKE DIAPHRAGM ASSY.	40. BAFFLE PLATE-PRI.
	LINK- CHOKE DIAPHRAGM	41. RETAINER - FLOAT
	SCREW (SHORT)(2)- SEC. FUEL BOWL	42. FLOAT & LEVER ASSY PRI.
	GASKET (2)- FUEL BOWL SCREW	43. SPRING- PRI. FLOAT
	SCREW (LONG)(2) - SEC. FUEL BOWL	44. NEEDLE, SEAT & GASKET ASSY.
	GASKET (2)— FUEL BOWL SCREW	PRI.
	FUEL BOWL ASSY SEC.	45. SCREW & LOCKWASHER (4) PRI.
	BAFFLE PLATE - SEC.	PUMP COVER
	RETAINER - FLOAT	46. COVER— PRI. PUMP
	FLOAT & LEVER ASSY SEC.	47. PUMP DIAPHRAGM ASSY PRI.
	SPRING - SEC. FLOAT	(SMALL)
13.	NEEDLE, SEAT & GASKET ASSY.	48. SPRING- PRI. DIAPHRAGM RETURN
	SEC.	49. VALVE- PR1. PUMP CHECK
14.	SCREW & LOCKWASHER (4)- SEC.	50. GASKET- PRI. FUEL BOWL
	PUMP COVER	 BAFFLE PRI. METERING BODY VENT
	COVER— SEC. PUMP	52. METERING BODY ASSY. — PRI.
16.	PUMP DIAPHRAGM ASSY SEC.	53. JET (2)— PRI. MAIN
	(LARGE)	54. VALVE- PRI. POWER
	SPRING-SEC. DIAPHRAGM RETURN	55. GASKET- PRI. POWER VALVE
	VALVE- SEC. PUMP CHECK	56. CAP (2)- IDLE LIMITER
	GASKET- SEC. FUEL BOWL	57. NEEDLE (2)- IDLE ADJUSTING
	BAFFLE- SEC. METERING BODY VENT	58. SEAL (2) IDLE ADJ. NEEDLE
	METERING BODY ASSY SEC.	59. TUBE - PRI. PUMP PASSAGE
	JETS- SEC. MAIN	60. O-RING (2)- PASSAGE TUBE
	VALVE- SEC. POWER	61. GASKET— PRI. METERING BODY.
	GASKET- SEC. POWER VALVE	62. SCREW- SEC. PUMP DISC. NOZZLE
	TUBE- SEC. PUMP PASSAGE	63. GASKET (2)— SCREW
	O-RING (2)— PASSAGE TUBE	64. NOZZLE- SEC. PUMP DISCHARGE
	GASKET- SEC. METERING BODY	(LARGE DUMP HOLES)
	TUBE- FUEL LINE	65. SCREW- PRI. PUMP DISC. NOZZLE
29.	O-RING (2) - FUEL LINE TUBE	66. GASKET (2) - SCREW
	FITTING- FUEL INLET	67. NOZZLE- PRI. PUMP DISCHARGE
31.	GASKET - INLET FITTING	(SMALL DUMP HOLES)
32.	GASKET- FUEL FILTER	68. COTTER PIN- SEC. CONNECTING ROD
33.	FILTER- FUE	69. WASHER (2)— SEC. CONNECTING ROD
	SPRING- FUEL FILTER	70. SCREW & LOCKWASHER (8)- THROTTLE
35.	SCREW (SHORT)(2) PRI. FUEL	BODY
	80HL	71. MAIN BODY ASSY.
	GASKET (2)— FUEL BOWL SCREW	72. GASKET- THROTTLE BODY
37.	SCREW (LONG)(2)- PRI, FUEL BOWL	73. PLUG- VACUUM TUBE
		TO THROTTLE BODY ACCY

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 AND SECONDARY PARTS ARE NOT ALWAYS IDENTICAL. BE SURE TO MARK PARTS TAKEN FROM PRIMARY SIDE.

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 PARIS
CONTAINING RUBBER OR DIAPHRAGM ASSEMBLIES.

REASSEMBLY

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

NOMENCLATURE

CENTER PIVOT FLOAT BOWL (HIGH PERF.)

	EF. 0.	REI NO	
2. 3.	NEEDLE & SEAT ASSY. — ADJUSTABLE SCREW & LOCKWASHER — FLOAT BRACKET BRACKET — FLOAT PIN PIN — FLOAT FLOAT & LEVER ASSY. — (PRI. & SEC. ARE DIFFERENT)	7.	SPRING- FLOAT(PRI. 6 SEC. ARE DIFFERENT) PLUG- FUEL LEVEL CHECK GASKET- CHECK PLUG FUEL BOWL
	NOMENCI ATUI		

NOMENCLATURE

. AUTOMATIC CHOKE SO	ME MODELS
REF. NO.	REF. NO.
1. SCREW(3)— CHOKE COVER RETAINER 2. RETAINER—CHOKE COVER 3. COVER ASSY.— CHOKE THERMOSTAT 4. GASKET—CHOKE COVER	5. SCREW & LOCKWASHER— CHOKE HOUSING 6. CHOKE HOUSING ASSY. 7. GASKET—CHOKE HOUSING

SPECIAL INSTRUCTIONS ARE ON NEXT PAGE

SPECIAL INSTRUCTIONS

O-RINGS- LUBRICATE LIGHTLY WITH OIL BEFORE INSTALLING.

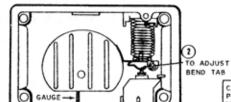
VITON NEEDLE & SEAT ASSY. - DO NOT USE EXOTIC FUELS OR ADDITIVES SUCH AS ALCOHOL, BENZINE OR ACETONE.

POWER VALVES (23)(54)- PRIMARY VALVE HAS SMALL HEAD ON STEM 7.5" SETTING. SECONDARY VALVE HAS LARGE HEAD ON STEM 6.5" SETTING. NON ADJUSTABLE NEEDLE 6 SEAT ASSY.(13)(44)— INSTALL NEEDLE SEAT WITH SMALL ORIFICE ON PRIMARY SIDE AND NEEDLE SEAT WITH LARGE ORIFICE ON SECONDARY SIDE.

IDLE ADJUSTING NEEDLES (57)—TURN IN UNTIL LIGHTLY SEATED THEN BACK OUT 1 TURN. (DO NOT INSTALL LIMITER CAPS AT THIS TIME IF USED.)
NOTE: SOME CARBURETORS HAVE A "BACKWARDS" IDLE ADJUSTMENT, TURN NEEDLES IN TO RICHEN THE MIXTURE, BACK NEEDLES OUT TO LEAN THE MIXTURE.

PUMP INLET CHECK VALVE (18)(49)—TO INSTALL LUBRICATE TIP OF NEW VALVE AND INSERT IN CENTER HOLE OF PUMP CAVITY. USE NEEDLE NOSE PLIERS AND PULL THRU FROM FUEL BOWL SIDE UNTIL FULLY SEATED. CUT OFF VALVE TIP AT RETAINING SHOULDER.

PUMP DIAPHRAGM RETURN SPRING (17)(48)—INSTALL LARGE OPEN END OF SPRING OVER RUBBER INLET CHECK VALVE. BE SURE TO INSTALL LARGE DIAPHRAGM & HOUSING ON SECONDARY SIDE.



MODEL 4165 FLOAT LEVEL SETTING PRI. FLOAT-3/16 SEC. FLOAT-1/4

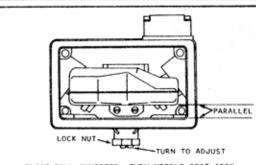
MODEL 4175 FLOAT LEVEL SETTING PRI. FLOAT-3/16" SEC. FLOAT-13/64"

CAUTION: DO NOT EXERT PRESSURE ON RESILIENT NEEDLE VALVE.

FLOAT BOML INVERTED, MEIGHT OF FLOAT RESTING ON SEATED NEEDLE. MEASURE DISTANCE BETWEEN CENTER SEAM OF FLOAT AND SUFFACE OF BOWL DIRECTLY BELOW THE FLOAT.

DRY FLOAT LEVEL ADJUSTMENT NON ADJ. TYPE NEEDLE & SEAT

FIG. 1



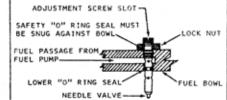
FLOAT BOWL INVERTED, TURN NEEDLE SEAT ASSY. UNTIL FLOAT SURFACE IS PARALLEL WITH THE SURFACE DIRECTLY BELOW THE FLOAT.

DRY FLOAT LEVEL ADJUSTMENT ADJUSTABLE TYPE NEEDLE & SEAT FIG. 2



- 1. CAR SETTING ON LEVEL SURFACE & ENGINE 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.)

WET FLOAT LEVEL ADJUSTMENT ADJUSTABLE TYPE NEEDLE & SEAT FIG. 3



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

SAFETY SEAL ADJUSTABLE FUEL VALVE FIG. 4

