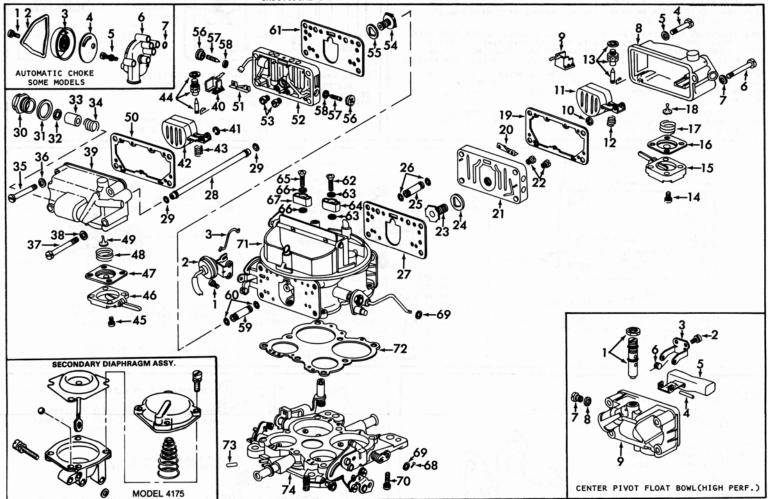
INSTRUCTION SHEET OFF VEHICLE CARBURETOR SERVICE **HOLLEY MODELS-4165, 4175**

GENERAL EXPLODED VIEW

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



NOMENCLATURE

1. SCREW & LOCKWASHER (2)- CHOKE DIAPHRAGM ASSY. CHOKE DIAPHRAGM ASSY

- 2. CHOKE DIAPHRAGM ASSY.
 3. LINK— CHOKE DIAPHRAGM
 4. SCREW (SHORT)(2)— SEC. FUEL BOWL
 5. GASKET (2)— FUEL BOWL SCREW
 6. SCREW (LONG)(2)— SEC. FUEL BOWL
 7. GASKET (2)— FUEL BOWL SCREW
 8. FUEL BOWL ASSY.— SEC.
 9. BAFFLE PLATE— SEC.

NO.

- RETAINER FLOAT FLOAT & LEVER ASSY. SEC. SPRING SEC. FLOAT NEEDLE, SEAT & GASKET ASSY. 13.
- 14. SCREW & LOCKWASHER (4)- SEC.
- PUMP COVER COVER SEC. PUMP
- PUMP DIAPHRAGM ASSY .- SEC.

- PUMP DIAPHRAGM ASSY.— SEC.
 (LARGE)
 SPRING— SEC. DIAPHRAGM RETURN
 VALVE— SEC. PUMP CHECK
 GASKET— SEC. FUEL BOWL
 BAFFLE— SEC. METERING BODY VENT
 METERING BODY ASSY.— SEC.
 JETS— SEC. MAIN
 VALVE— SEC. POWER
 GASKET— SEC. POWER VALVE
 TUBE— SEC. PUMP PASSAGE
 O-RING (2)— PASSAGE TUBE
 GASKET— SEC. METERING BODY
 TUBE— FUEL LINE
 O-RING (2)— FUEL LINE TUBE
 FITTING— FUEL INLET
 GASKET— INLET FITTING
 GASKET— FUEL FILTER
 FILTER— FUEL
- 20.
- 22.

- 32.
- FILTER FUEL SPRING FUEL FILTER
- SCREW (SHORT)(2)- PRI. FUEL
- BOWL
- 36. GASKET (2)— FUEL BOWL SCREW 37. SCREW (LONG)(2)— PRI. FUEL BOWL

- GASKET (2)— FUEL BOWL SCREW FUEL BOWL ASSY.— PRI. BAFFLE PLATE— PRI. RETAINER— FLOAT

- FLOAT & LEVER ASSY. PRI. SPRING PRI. FLOAT NEEDLE, SEAT & GASKET ASSY.
- SCREW & LOCKWASHER (4)- PRI. PUMP COVER COVER— PRI. PUMP
- PUMP DIAPHRAGM ASSY .- PRI.
- PUMP DIAPHRAGM ASSY.— PRI.

 (SMALL)

 SPRING— PRI. DIAPHRAGM RETURN

 VALVE— PRI. PUMP CHECK

 GASKET— PRI. FUEL BOWL

 BAFFLE— PRI. METERING BODY VENT

 METERING BODY ASSY.— PRI.

 JET (2)— PRI. MAIN

 VALVE— PRI. POWER

 GASKET— PRI. POWER VALVE

 CAP (2)— IDLE LIMITER

 REEDLE (2)— IDLE ADJUSTING

 SEAL (2)— IDLE ADJUSTING

 SEAL (2)— PRI. PUMP PASSAGE

 O-RING (2)— PASSAGE TUBE

 GASKET— PRI. METERING BODY.

 SCREW— SEC. PUMP DISC. NOZZLE

 GASKET (2)— SCREW

 NOZZLE— SEC. PUMP DISCHARGE

 (LARGE DUMP HOLES)

 SCREW— PRI. PUMP DISC. NOZZLE

- 58.

- (LARGE DUMP HOLES)
 SCREW—PRI. PUMP DISC. NOZZLE
 GASKET (2)— SCREW
 NOZZLE—PRI. PUMP DISCHARGE
 (SMALL DUMP HOLES)
 COTTER PIN— SEC. CONNECTING ROD
 WASHER (2)— SEC. CONNECTING ROD
- SCREW & LOCKWASHER (8)- THROTTLE BODY
- MAIN BODY ASSY
- GASKET- THROTTLE BODY PLUG- VACUUM TUBE
- 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. 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 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.

NOMENCLATURE

CENTER PIVOT FLOAT BOWL(HIGH PERF.)	
REF. NO.	REF. NO.
1. NEEDLE & SEAT ASSY.— ADJUSTABLE 2. SCREW & LOCKWASHER— FLOAT BRACKET 3. BRACKET— FLOAT PIN 4. PIN— FLOAT 5. FLOAT & LEVER ASSY.—	6. SPRING— FLOAT(PRI. & SEC. ARE DIFFERENT) 7. PLUG— FUEL LEVEL CHECK 8. GASKET— CHECK PLUG 9. FUEL BOWL

NOMENCLATURE

AUTOMATIC CHOKE SOME MODELS

REF.	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

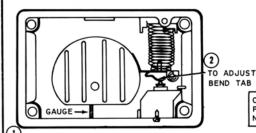
O-RINGS- LUBRICATE LIGHTLY WITH OIL BEFORE INSTALLING. VITON NEEDLE \$ SEAT ASSY.— DO NOT USE EXOTIC FUELS OR ADDITIVES SUCH AS ALCOHOL, BENZINE OR ACETONE.

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 & 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"

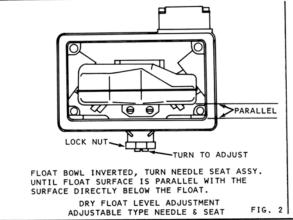
MODEL 4175 FLOAT LEVEL SETTING PRI. FLOAT-3/16" SEC. FLOAT-13/64"

CAUTION: DO NOT EXERT PRESSURE ON RESILIENT NEEDLE VALVE.

FLOAT BOWL INVERTED, WEIGHT OF FLOAT RESTING ON SEATED NEEDLE. MEASURE DISTANCE BETWEEN CENTER SEAM OF FLOAT AND SURFACE OF BOWL DIRECTLY BELOW THE FLOAT.

DRY FLOAT LEVEL ADJUSTMENT NON ADJ. TYPE NEEDLE & SEAT

FIG. 1



LOCK NUT SIGHT PLUG HOLE

- 1. CAR SETTING ON LEVEL SURFACE & ENGINE

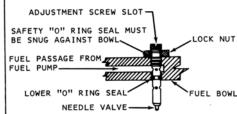
4. TIGHTEN LOCK NUT.

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.)

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

