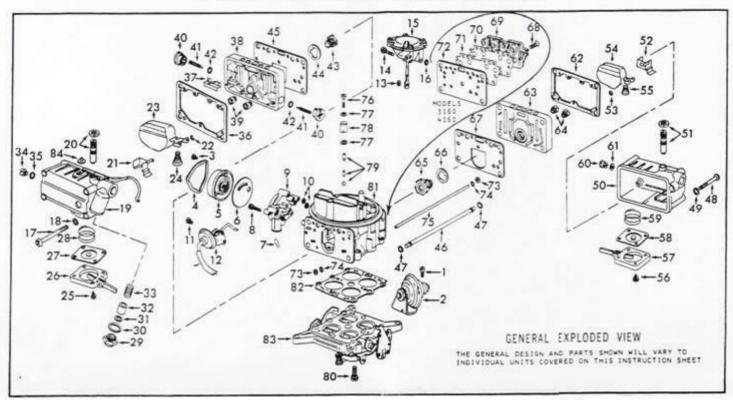


INSTRUCTION SHEET OFF VEHICLE CARBURETOR SERVICE HOLLEY - MODELS 3160, 4150 4160



NOMENCLATURE

NO.

REF.	
1.	SCREW & LOCKWASHER - DASHPOT
2.	
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
	CHOKE HOUSING ASSY.
10.	GASKET - CHOKE HOUSING
11.	SCREW & LOCKWASHER (2) - CHOKE
	DIAPHRAGM ASSY.
12.	CHOKE DIAPHRAGM ASSY.
	(SOME MODELS)
	RETAINER - SEC. DIAPHRAGM LINK
14.	SCREW & LOCKWASHER (3) - DIAPH.
	HOUSING ASSY.
15.	DIAPH. HOUSING ASSY
	SECONDARY THROTTLE
16.	GASKET - SEC. DIAPH. HOUSING
17.	SCREW (4) - PRI. FUEL BONL
18.	GASKET (4) - PRI. BOWL SCREW
19.	BOWL - PRI. FUEL
20.	NEEDLE & SEAT ASSY PRI.
21.	BAFFLE PLATE - PRI. N/S
	RETAINER - PRI. FLOAT
	FLOAT ASSY PRI.
24.	
25.	
-	PUMP COVER
26.	PUMP COVER ASSY.
	PUMP DIAPHRAGH ASSY.
28.	SPRING - PUMP
	FITTING - FUEL INLET
	GASKET - FITTING
31.	GASKET - FILTER
	FILTER - FUEL
33.	SPRING - FILTER PLUG - SIGHT LEVEL
	GASKET - PLUG
16	GASKET - PRI. FUEL BOWL
37.	
18	METERING BODY - PRI.
39.	
40.	CAP (2) - IDLE LIMITER
40.	(SOME MODELS)
	COOKE POURTO

	41.	NEEDLE (2) - IDLE ADJ.
ı	42.	SEAL (2) - IDLE NEEDLE
ı	43.	POWER VALVE - PRI.
ı	64	CASKET - POWER VALVE
ı	45	GASKET - PRI. METERING BODY
ı	46	TUBE - FUEL LINE
ı	6.7	0-R1NG (2) - TUBE
ı	4.0	SCREW (4) - SEC. FUEL BOWL
ı	40	GASKET (4) - SEC. BOWL SCREW
1	40	BOWL - SEC. FUEL
ı	30.	BOWL - SEC. FUEL NEEDLE & SEAT ASSY SEC.
	31.	BAFFLE PLATE - SEC. N/S
1	34.	SAFFEE PEATE SEEL NAT
1	23.	RETAINER - SEC. FLOAT
		FLOAT ASSY SEC.
ı	55.	SPRING - SEC. FLOAT
Į	56.	SCREW & LOCKWASHER (4) - PUMP COVER
	57.	PUMP COVER ASSY (HI. PERF. CARB.)
	48.	PUMP DIAPHRAGM ASSY - (HI. PERF.)
ı	19.	SPRING - PUMP
	60	SPRING - PUMP PLUG - SIGHT LEVEL
1	61	GASKET - PLUG
ı	62	GASKET - SEC. FUEL BOWL
1	6.8	HETERING BODY - SEC
1	64	JET (2) - SEC. MAIN
ı	04.	DEL (2) - SEC. MAIN

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 ALMAYS 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 SCREMS. CLEANING

CLEANING MUST BE DONE MITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENDUGH 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. RINGE OFF IN SUITABLE SOLVENT. BLOW DUT 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

65. METERING BODY - SEC.
64. JET (2) - SEC. MAIN
65. POWER VALVE - SEC. (SOME MODELS)
66. GASKET - VALVE
67. GASKET - VALVE
68. SCREW (6) - SEC. METERING BODY
69. METERING BODY - SEC.
70. GASKET - SEC. METERING BODY
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. NOZZLE
79. NEEDLE VALVE - PUMP DISC.
60. SCREW - PUMP DISC.
60. SCR POMER 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.

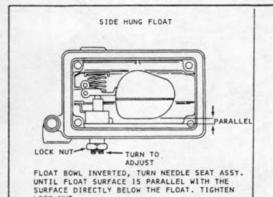
CARB. NO. RY75BAAA PRI. 8.5 SEC. NONE

RY77BAAA PRI. 8.5 SEC. NONE

RY78BAAA PRI. 6.5 SEC. 8.5

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

ADJUSTMENTS

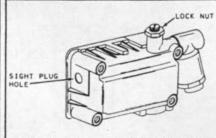


CENTER HUNG FLOAT A A PARALLEL LOCK NUT-

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

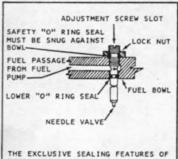
F1G. 5

DRY FLOAT LEVEL ADJUSTMENTS FIG. 1 F1G. 2



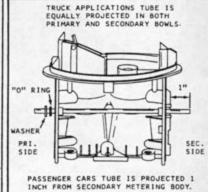
- 1. CAR SETTING ON LEVEL SURFACE & ENGINE RUNNING.
- 2. REMOVE SIGHT LEVEL PLUG FROM BOWL.
 3. ADJUST NEEDLE SEAT ASSY. SO FUEL LEVEL
 WILL BE AT BOTTOM EDGE OF SIGHT PLUG
 HOLE. (PLUS OR MINUS 1/32" TOLERANCE.)
 4. TIGHTEN LOCK NUT.

WET FLOAT LEVEL ADJUSTMENT FIG. 3

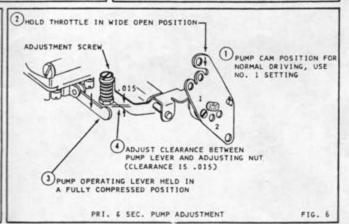


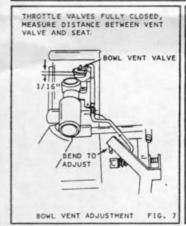
THE EXCLUSIVE SEALING FEATURES OF THIS ASSEMBLY PROVIDE SAFE ADJ. OF FUEL LEVEL WHILE ENGINE IS RUNNING

SAFETY SEAL ADJUSTABLE FUEL VALVE FIG. 4

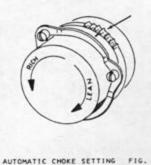


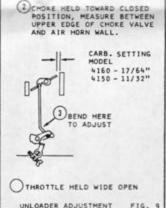
BALANCE TUBE POSITION



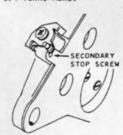




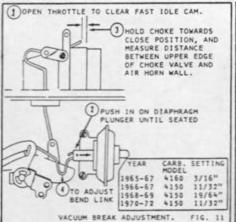




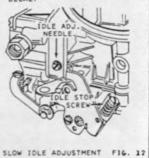
SECONDARY THROTTLE STOP SCREW, BACK OUT UNTIL SECONDARY THROTTLE PLATES ARE CLOSED. TURN SCREW IN UNTIL IT CONTACTS 5TOP, THEN TURN SCREW IN 1/2 - 3/4 TURNS MORE.



SECONDARY THROTTLE STOP ADJUSTMENT



ENGINE AT OPERATING TEMP. 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



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.

