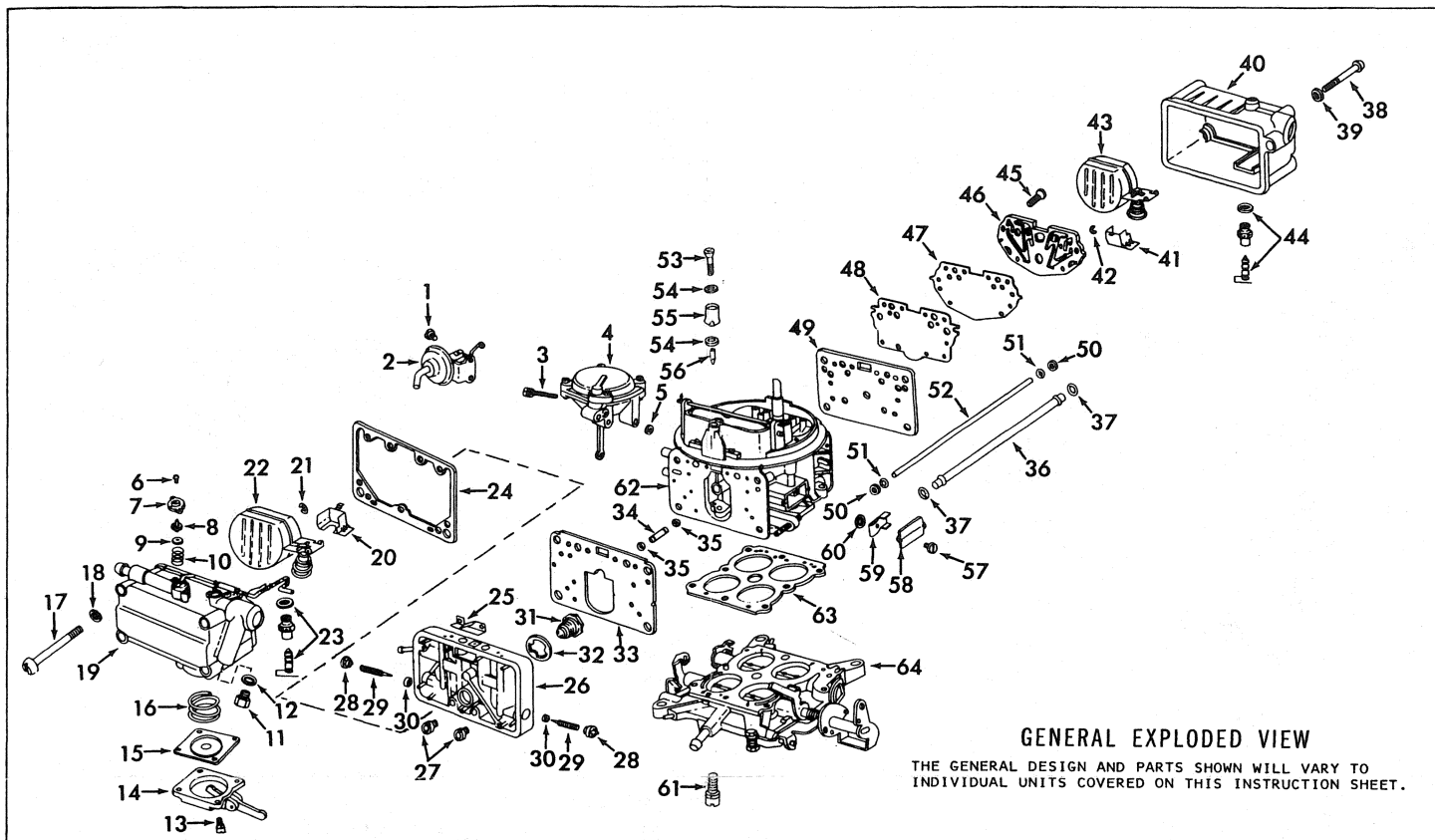


INSTRUCTION SHEET

HOLLEY CARBURETOR MODEL 4160

(INTERNAL NEEDLE AND SEAT)



GENERAL EXPLODED VIEW

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

NOMENCLATURE

REF. NO.	REF. NO.
1. SCREW & LOCKWASHER(2)-VACUUM BREAK ASSY.	32. GASKET-POWER VALVE
2. VACUUM BREAK & LINK ASSY.	33. GASKET-PRI. METERING BODY
3. SCREW & LOCKWASHER(3)-DIAPHRAGM HOUSING ASSY.	34. TUBE-PUMP TRANSFER
4. DIAPHRAGM HOUSING ASSY.-SEC. THROTTLE	35. O-RING(2)-PUMP TRANSFER TUBE
5. GASKET-SEC. DIAPHRAGM HOUSING	36. TUBE-FUEL LINE
6. SCREW & LOCKWASHER(2)-VENT VALVE COVER	37. O-RING(2)-FUEL LINE TUBE
7. COVER-VENT VALVE	38. SCREW(4)-SECONDARY FUEL BOWL
8. VENT VALVE-STEM	39. GASKET(4)-FUEL BOWL SCREW
9. VALVE-VENT	40. FUEL BOWL ASSY.-SECONDARY
10. SPRING-VENT VALVE	41. BAFFLE-SECONDARY NEEDLE & SEAT
11. FITTING-FUEL INLET	42. RETAINER-FLOAT
12. GASKET-INLET FITTING	43. FLOAT & SPRING ASSY.-SECONDARY
13. SCREW & LOCKWASHER(4)-PUMP COVER ASSY.	44. NEEDLE, SEAT & GASKET ASSY.-SEC.
14. PUMP COVER ASSY.	45. SCREW(6)-SEC. METERING BODY
15. PUMP DIAPHRAGM ASSY.	46. METERING BODY-SECONDARY
16. SPRING-DIAPHRAGM	47. GASKET-SEC. METERING BODY PLATE
17. SCREW(4)-PRIMARY FUEL BOWL	48. PLATE-SECONDARY METERING BODY
18. GASKET(4)-PRI. FUEL BOWL SCREW	49. GASKET-SECONDARY METERING BODY
19. FUEL BOWL ASSY.-PRIMARY	50. WASHER(2)-BALANCE TUBE
20. BAFFLE-PRI. NEEDLE & SEAT	51. O-RING(2)-BALANCE TUBE
21. RETAINER-FLOAT	52. TUBE-BALANCE
22. FLOAT & SPRING ASSY.-PRI.	53. SCREW-PUMP DISC. NOZZLE
23. NEEDLE, SEAT & GASKET ASSY.-PRI.	54. GASKET(2)-PUMP DISC. NOZZLE
24. GASKET-PRIMARY FUEL BOWL	55. NOZZLE-PUMP DISC.
25. VENT BAFFLE-PRI. FUEL BOWL	56. NEEDLE VALVE-PUMP DISC.
26. METERING BODY-PRIMARY	57. SCREW(2)-IDLE COMPENSATOR COVER
27. JET(2)-PRI. MAIN	58. COVER-IDLE COMPENSATOR VALVE
28. CAP(2)-IDLE LIMITER	59. VALVE-IDLE COMPENSATOR
29. NEEDLE(2)-IDLE ADJUSTING	60. GASKET-IDLE COMPENSATOR VALVE
30. SEAL(2)-IDLE NEEDLE	61. SCREW & LOCKWASHER(6 OR 8)-THROTTLE BODY
31. VALVE-POWER	62. MAIN BODY ASSY.
	63. GASKET-THROTTLE BODY
	64. 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 SIDE (CHOKE SIDE) AND SECONDARY SIDE PARTS ARE NOT ALWAYS IDENTICAL. BE SURE TO MARK PARTS TAKEN FROM PRIMARY SIDE. SECONDARY THROTTLE DIAPHRAGM ASSY. (4)- 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 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(63)-BE SURE HOLES ARE PROPERLY MATCHED TO THROTTLE BODY.

THROTTLE BODY SCREWS(61)-TORQUE EVENLY IN STAGES TO 50 INCH LBS.

POWER VALVE INSTALLATION(31)-USING PROPER WRENCH TORQUE TO 100 INCH LBS.

IDLE ADJ. NEEDLES(29)-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.

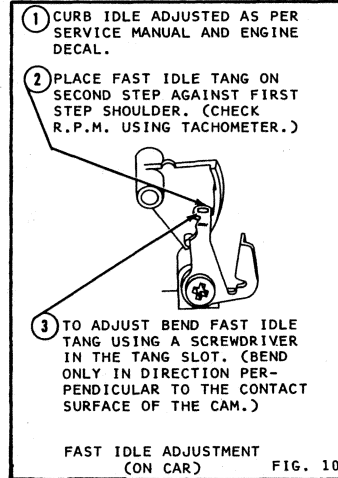
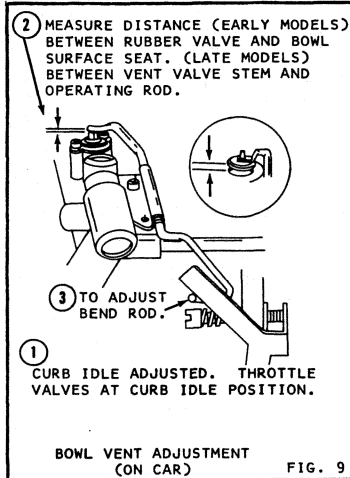
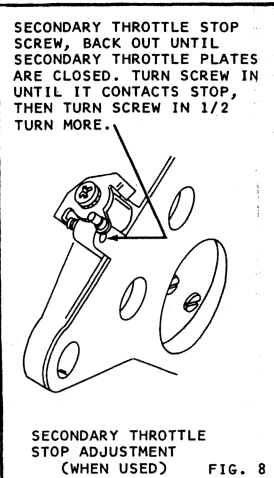
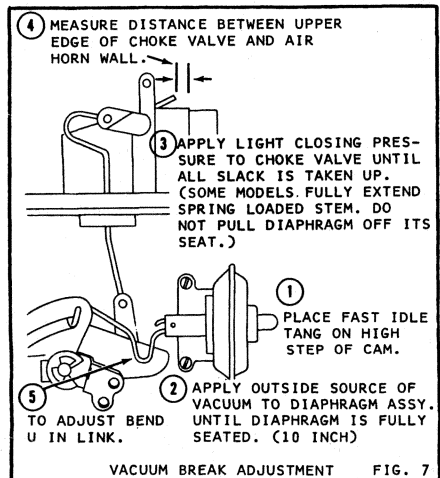
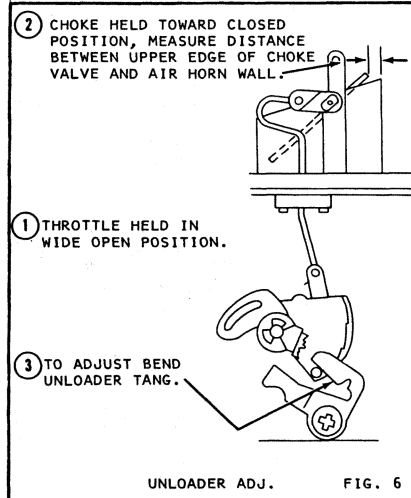
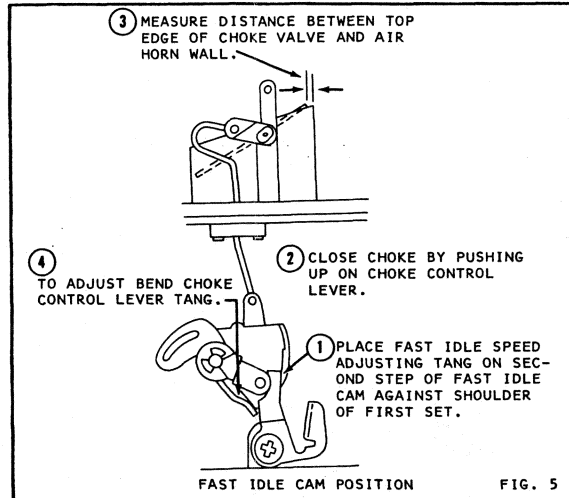
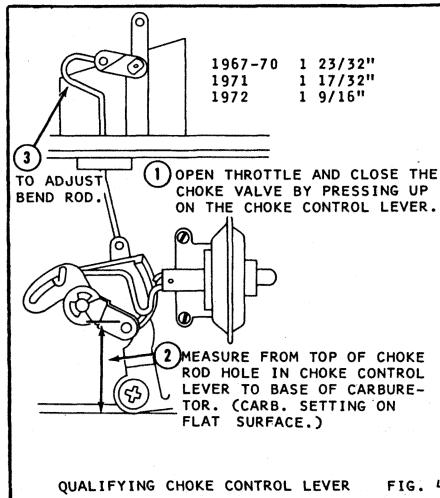
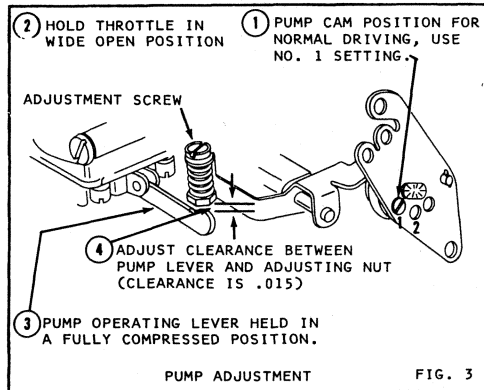
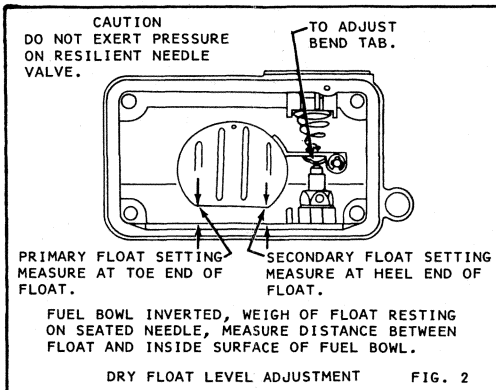
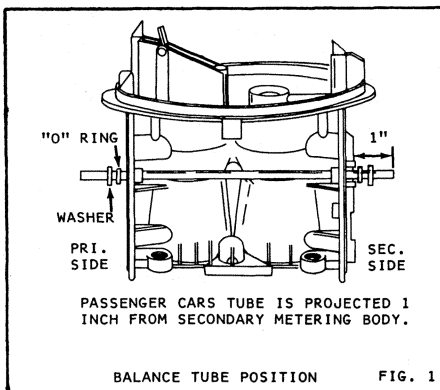
BOWL SCREW GASKETS(18)(39)-INSTALL GASKET ON SCREW BEFORE INSTALLING SCREW.

FUEL BOWL SCREWS(17)(38)-TORQUE EVENLY IN STAGES TO 25-30 INCH LBS.

O-RINGS-LUBRICATE LIGHTLY BEFORE INSTALLING.

1968-69 MODELS. DO NOT HAVE IDLE MIXTURE ADJUSTING NEEDLES (29) ON PRIMARY METERING BLOCK. REPLACED BY IDLE LIMITER SCREWS. FACTORY ADJUSTED AND SEALED. DO NOT REMOVE OR ADJUST. A SINGLE IDLE ADJUSTING SCREW IS LOCATED JUST INSIDE AIR CLEANER RING ON AIR HORN, DIRECTLY ABOVE PRIMARY METERING BLOCK. THIS SCREW HAS A LEFT HAND THREAD.

ADJUSTMENTS



ADJUSTMENT DATA TABLE

YEAR	MAKE	FLOAT SETTING		FAST IDLE CAM POSITION	UNLOADER ADJUSTMENT	VACUUM BREAK ADJUSTMENT	BOWL VENT ADJUSTMENT	FAST IDLE R.P.M.	AUTO CHOKE SETTING	
		PRI.	SEC.							
1967	CHRYSLER PRODUCTS 440" STD. V8 ENG.	S/T	1/4"	9/32"	1/16"	5/32"	7/64"	3/32"	700 L/S	2-RICH
		A/T	1/4"	9/32"	1/16"	5/32"	1/16"	3/32"	700 L/S	2-RICH
1968	440" V8 ENG.	ALL/T	1/4"	9/32"	5/64"	5/32"	7/64"	5/64"	1400 2ND/S	2-RICH
1969	440" V8 ENG.	ALL/T	1/4"	9/32"	5/64"	5/32"	1/16"	5/64"	1400 2ND/S	2-RICH
1970	383" V8 ENG. 383" V8 ENG. 440" V8 ENG.	S/T	1/4"	9/32"	1/16"	5/32"	11/64"	(C.A.S. 5/64")	2000 2ND/S	2-RICH
		A/T	1/4"	9/32"	1/16"	5/32"	5/64"	(E.C.S. 1/32")	1800 2ND/S	2-RICH
		A/T	1/4"	9/32"	1/16"	5/32"	5/64"	5/64"	1600 2ND/S	2-RICH
1971	383" ENG. HEATED AIR FRESH AIR	S/T	1/4"	9/32"	1/16"	5/32"	S/T 11/64"	1/64"	S/T 1800 2ND/S	2-RICH
		A/T	1/4"	9/32"	1/16"	5/32"	A/T 5/64"	1/64"	A/T 1700 2ND/S	2-RICH
		S/T	1/4"	9/32"	1/16"	5/32"	S/T 5/64"	1/64"	S/T 1800 2ND/S	2-RICH
		A/T	1/4"	9/32"	1/16"	5/32"	A/T 11/64"	1/64"	A/T 1700 2ND/S	2-RICH
1972	440" V8 ENG. H.P.	S/T	1/8"	7/32"	1/16"	5/32"	9/64"	1/64"	1800 2ND/S	—
		A/T	1/8"	7/32"	1/16"	5/32"	5/64"	1/64"	1600 2ND/S	—

C.A.S.= CLEANER AIR SYSTEM
E.C.S.= EVAPORATION CONTROL SYSTEM

L/S= LOW STEP
2ND/S= SECOND STEP