INSTRUCTION SHEET

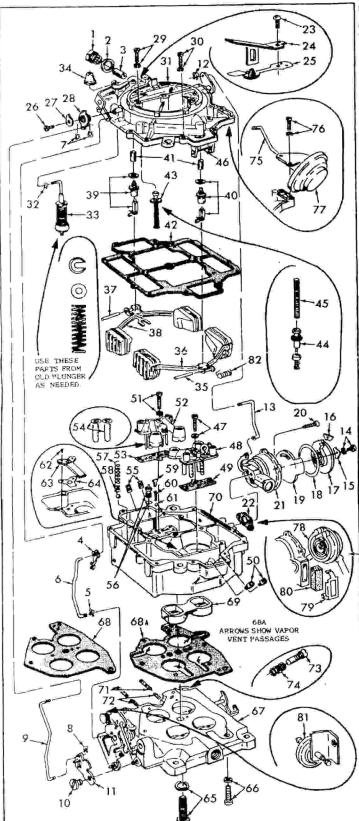
ROCHESTER CARBURETOR-MODELS 4G 4GC

REF.

GENERAL EXPLODED VIEW

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





DISASSEMBLY

USE EXPLODED VIEW AS A GUIDE. THE NUMERICAL TEQUENCE MAY GENERALLY BE POLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION. NOTE: BOWL COVER MOUNTED AUTOMATIC CHOKE MODELS USUALLY ONLY REQUIFEREMOVAL OF STAT COVER OR VACUUM UNIT. CAUTION: IF CHOKE SHAFT REQUIRES REMOVAL, CHOKE VALVE SCREWS ARE STAKED OVER, AND STAKING MUST BE FILED OFF BEFORE SCREWS ARE TURNED, HOT WATER TYPE STAT COVERS SHOULD NOT BE DISASSEMBLED UNLESS PARTS ARE BEING REPLACED, AND SHOULD NOT BE IMMERSED IN CLEANER OR SOLVENT REMOVE STAKING FROM BOWL COVER FOR EASY REMOVAL OF POWER PISTON ASSEMBLY (43) OR (44). WHEN REMOVING FLOATS (36) AND (38), MARK EACH ONE AS TO THE SIDE IT BELONGS. NOTE (PRIMARY SIDE HAS PUMP CETCUIT AND CHOKE VALVE). If MAIN METER ING JETS (50) AND (55) ARE REMOVED, NOTE SIZE NUMBER STAMPED ON JETS AND TO WHICH BOWL THEY ARE REMOVED. THE JETS MUST BE INSTALLED IN FAIRS.

NOMENCLATURE

REF.

REF.	KBP.
NO.	NO.
1. FITTING-FUEL INLET	45. SPRING-POWER PISTON 46. SPRING-FLOAT BALANCE
GASKET-FUEL INLET FITTING	47. SCREW & LOCKWASHER-SECONDARY
3. SCREEN-FUEL INLET	
4. RETAINER-PUMP ROD UPPER	VENTURI CLUSTER
5. RETAINER-PUMP ROD LOWER	48. SECONDARY VENTURI CLUSIER
6. ROD-PUMP	49. GASKET-SEC. VENTURI CLUSTER
7. RETAINER-CHOKE ROD UPPER	50. JETS-SECONDARY MAIN METERING
8. RETAINER-CHOKE ROD LOWER	51, SCREW & LOCKWASHER-PRIMARY
9. ROD-CHOKE	VENTURI CLUSTER
10. SCREW-FAST IDLE CAM	52. PRIMARY VENTURI CLUSTER
11. CAM-FAST IDLE	53. GASKET-PRI. VENTURI CLUSTER
12. RETAINER-INTERMEDIATE CHOKE ROD	54. INSERTS-MAIN WELL
 ROD-INTERMEDIATE CHOKE 	55. JETS-PRIMARY MAIN METERING
14. SCREW AND LOCKWASHER-STAT	56. VALVE & GASKET ASSY POWER
RETAINER	57. SPRING-PUMP RETURN
15. RETAINER-STAT COVER PLAIN	50. BALL-PUMP INTAKE (USED IN
16. RETAINER - STAT COVER TOOTHED	TYPES WITH SEAT IN CASTING
17. STAT COVER AND SPRING ASSY.	59. GUIDE-PUMP DISCHARGE BALL
18. GASKET-STAT COVER	60. SPRING-PUMP DISCHARGE BALL
19. PLATE-CHOKE BAFFLE	61. BALL-PUMP DISCHARGE
20. SCREW-CHOKE HOUSING	62. SCREW-IDLE COMPENSATOR VALVE
21. HOUSING-CHOKE & PISTON ASSY.	63. VALVE-IDLE COMPENSATOR
22. GASKET-CHOKE HOUSING	64. GASKET-IDLE COMPENSATOR VALVE
23. SCREW-IDLE VENT VALVE	65. SCREW & LOCKWASHER-THROTTLE
24. SHIELD-IDLE VENT VALVE	BODY ATTACHING (CENTER HOLE)
25. VALVE-IDLE VENT	66. SCREW & LOCKWASHER-THBOTTLE
26. SCREW-TRIP LEVER	BODY ATTACHING
27. LEVER-TRIP	67. THROTTLE BODY ASSEMBLY
28. LEVER AND COLLAR-CHOKE	68. GASKET-BODY FLANGE
29. SCREW & LOCKWASHER-BOWL COVER	68A GASKET-BODY FLANGE WITH VAPOR
30. SCREW & LOCKWASHER-BOWL COVER	VENTSLOTS, WILL REPLACE #68
31. BOWL COVER ASSEMBLY	69. AUXILARY THROTTLE VALVE ASSY.
32. RETAINER-PUMP PLUNGER	70. BOWL ASSEMBLY-FLOAT
33, PUMP PLUNGER	71. NEEDLES-IDLE ADJUSTING
14. BOOT-PUMP PLUNGER	72. SPRINGS-IDLE ADJ. NEEDLE
35. PIN-SECONDARY FLOAT HINGE	73. NEEDLE-IDLE AIR ADJUSTING
36. FLOAT & LEVER ASSY, SECONDARY	(FOR BY-PASS IDLE SYSTEM)
37. PIN-PRIMARY FLOAT HINGE	74. SPRING-IDLE AIR ADJ. NEEDLE
38. FLOAT & LEVER ASSY. PRIMARY	75. ROD-VACUUM CONTROL
39. NEEDLE, SEAT & GASKET ASSY.	76 SCREW & LOCKWASHER - VACUUM
FRIMARY	CONTROL ATTACHING
40, NEEDLE, SEAT & GASKET ASSY.	77. VACUUM BREAK CONTROL ASSEMBLY
SECONDARY	78. STAT COVER & SPRING ASSEMBLY
41. SCREEN-NEEDLE & SEAT STRAINER	HOI WATER TYPE CHOKE
42. GASKET-BOWL COVER	79. RETAINER-FILTER
43. POWER PISTON ASSEMBLY	80, FILTER-AIR INTAKE
44. POWER PISTON WITH FLOAT	81. THROTTLE RETURN CHECK ASSEMBLY
ASSIST SPRING ASSEMBLY	82. TORSION SPRING-FLOAT

CLEANING

CLEANING MUST BE DONE WITH CARBURE TOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. USE (1) A CARBURETOR CLEANING SOLVENT, (2) LACQUER THINNER OR (3) DEMATURED ALCOHOL. MAKE CERTAIN THE ROTITLE BODY IS FREE OF ALL HARD CARBON DEPOSITS, RINSE OFF IN SUITABLE SOLVENT. BLOW OUT ALL PASSAGES IN CASTING WITH COMPRESSED AIR AND CHECK CAREFULLY TO INSURE THOROUGH CLEANING OF OBSCURE AREAS. CAUTION: DO NOT SOAK RUBBER, LEATHER OR PLASTIC PARTS IN SOLVENT.

NOTE: WATER HEATED TYPE CHOKE STAT COVER MAY BE REMOVED FROM CARBURETOR ON ENGINE TO ELIMINATE DRAINING OF COOLANT. (LEAVE WATER HOSES CONNECTED).

REASSEMBLY

REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY, NOTE SPECIAL INSTRUCTIONS AND FOLLOW NUMERICAL OUTLINE IN MAKING ADJUSTMENTS. SEE OTHER SIDE

SPECIAL INSTRUCTIONS

PLUNGER (33). REMOVE PAPER SLEEVE FROM LEATHER CUP IF USED, FLEX LEATHER OUTWARD SLIGHTLY. SOAK CUP IN GASOLINE, KEROSENE OF OIL FOR A FEW MINUTES FRIOR TO PLACING IN CARBURETOR.

NEEDLE AND SEAT SELECTION WHERE TWO PART NUMBERS ARE SUPPLIED . USE ASSY. WITH LARGER HOLE ON THE PRIMARY SIDE.

NEEDLE AND SEAT GASKET SELECTION - REFER TO FIGURE (1) - PAGE 2

POWER PISTON INSTALLATION (43) OF (44) LIGHTLY STAKE CASTING AROUND WASHEL

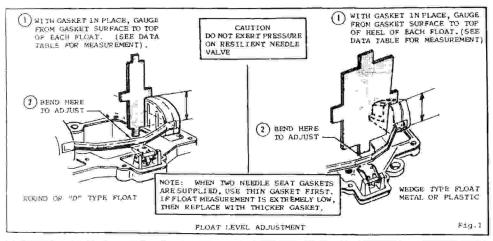
WHEN INSTALLING FLOATS THAT USE A PLOAT BALANCE SPRING (46), BE SURE SPRING IS BETWEEN FLOAT IANG AND NEEDLE SEAT. SEE FIG. 6, PAGE 2

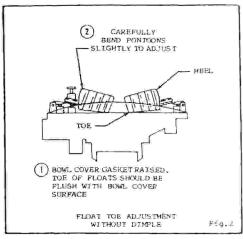
VENTURI CLUSTER (48) (52) INSTALLATION. THE PRIMARY CLUSTER CONTAINS THE PUMP DISCHARGE NOZZLES AND IS INSTALLED ON THE SIDE WITH THE PUMP WELL

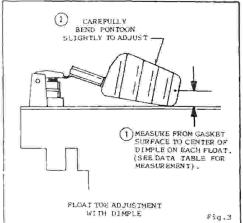
IDLE ADJUSTING NEEDLES (71). TURN EACH NEEDLE IN TO SEAT LIGHTLY AND THE ℓ BACK OUT 1 $1/2 \, \simeq \, 2$ TURNS

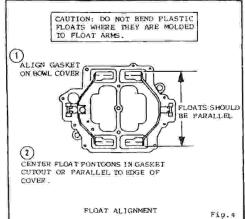
IDLE AIR SCREW (73) IF USED, TURN IN TO SEAT AND BACK OUT 1 1/2 ? TITE Nº

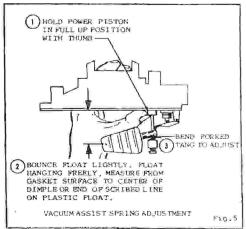
ADJUSTMENTS

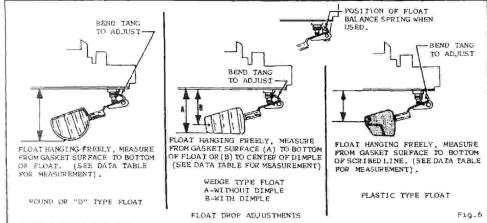


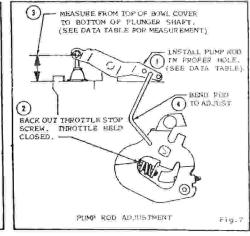


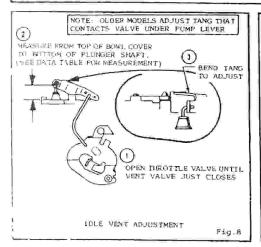


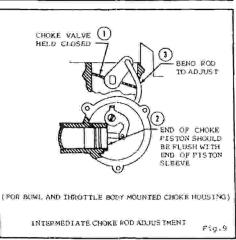


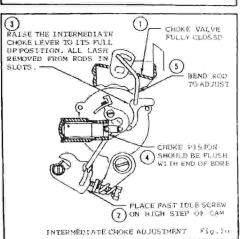


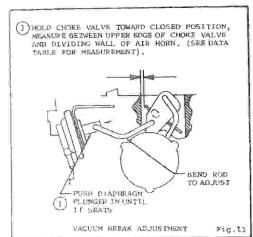


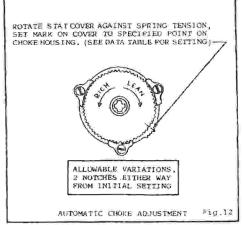


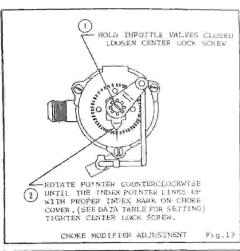


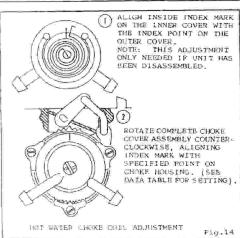


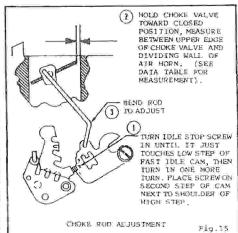


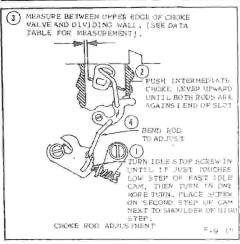


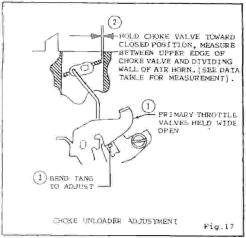


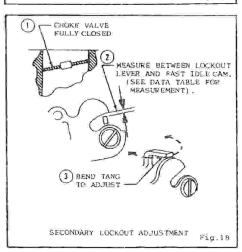


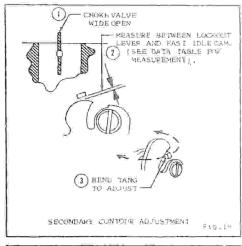


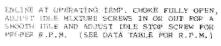




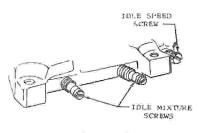








NUTE WHERE HOT IDLE COMPENSATOR IS USED, BE SURE IT IS HELD GLOSED WHEN ADJUSTING FOLE.

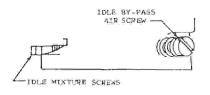


(FIRST TYPE) SLOW IDLE ADJUSTMENT

Fig. 20

ENGINE AT OPERATING TEMP, CHOKE FULLY OPEN, THROTTLE VALVES COMPLETELY CLOSED. ADJUST IDLE MIXTUPE SCREWS IN OR OUT FOR A SMOOTH DILE AND ADJUST IDLE BY-PASS AIR SCREW FOR PROPER R.P.M. (SEE DATA TABLE FOR R.P.M.)

NOTE: FINAL ADJUSTMENT IS MADE WITH IDLE MIXTURE SCREWS



(SECOND TYPE)
SLOW TOLE ADJUSTMENT

2 WITH ENGINE OFF AND SCREW STILL ON STEP OF FAST IDLE CAM, ADJUST SPY SCREW CLEARANCE BETWEEN THE SCREW HEAD AND STOP ON THROTTLE ITVER, 1950-62 1961-03 F-85 1.77 1964 OLDS 177 1964 O