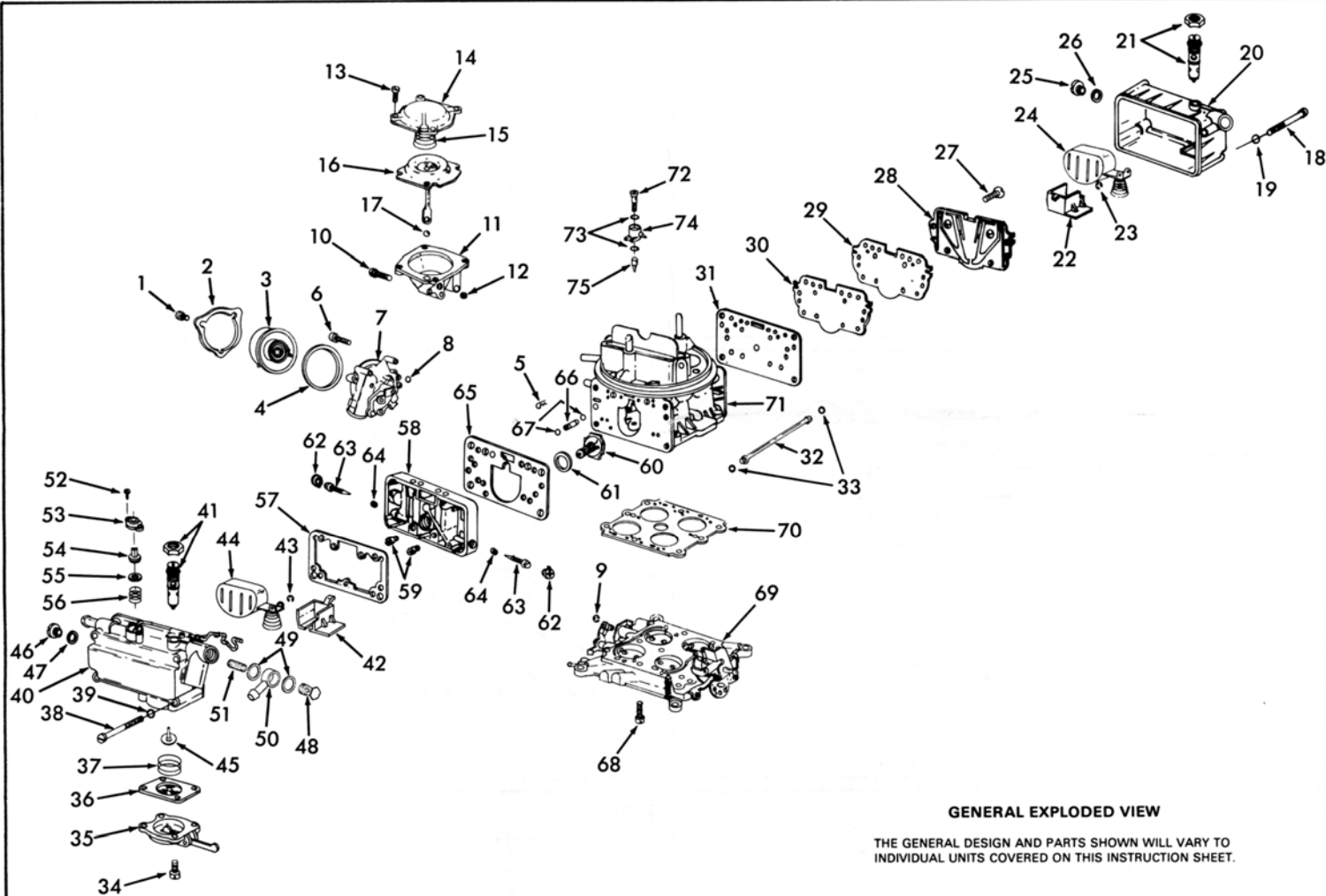


INSTRUCTION SHEET

HOLLEY CARBURETOR - MODEL 4160C

IS- 50-579

(FORD 4V REPLACEMENT)



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 SEQUENCE MAY GENERALLY BE
FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION.

NOMENCLATURE

REF. NO.	REF. NO.
1. SCREW (3) - RETAINER	38. SCREW (4) - PRI. FUEL BOWL
2. RETAINER - CHOKE COVER	39. GASKET (4) - PRI. BOWL SCREW
3. CHOKE COVER ASSY.	40. BOWL - PRI. FUEL
4. GASKET - CHOKE COVER	41. NEEDLE & SEAT ASSY. - PRI
5. RETAINER - CHOKE ROD	42. BAFFLE - PRI. FUEL
6. SCREW & LOCKWASHER (3) - CHOKE HOUSING	43. RETAINER - FLOAT
7. CHOKE HOUSING ASSY.	44. FLOAT & SPRING ASSY. - PRI
8. GASKET - CHOKE HOUSING	45. VALVE - PUMP INTAKE
9. RETAINER - SEC. DIAPHRAGM LINK	46. PLUG - SIGHT
10. SCREW & LOCKWASHER (3) - SEC. DIAPHRAGM ASSY.	47. GASKET - SIGHT PLUG
11. SEC. DIAPHRAGM HSG. ASSY.	48. BOLT - BANJO FITTING
12. GASKET - SEC. DIAPHRAGM HSG.	49. GASKET (2) - BANJO FITTING
13. SCREW & LOCKWASHER (4) - SEC. DIAPHRAGM COVER	50. FUEL INLET FITTING - BANJO
14. COVER - SEC. DIAPHRAGM	51. SCREEN - FUEL INLET
15. SPRING - SEC. DIAPHRAGM	52. SCREW & LOCKWASHER (2) - VENT VALVE
16. DIAPHRAGM - SECONDARY	53. COVER - VENT VALVE
17. BALL - SEC. VACUUM CHECK	54. STEM - VENT VALVE
18. SCREW (4) - SEC. FLOAT BOWL	55. VALVE - VENT
19. GASKET (4) - SEC. BOWL SCREW	56. SPRING - VENT VALVE
20. BOWL - SEC. FUEL	57. GASKET - PRI. FUEL BOWL
21. NEEDLE & SEAT ASSY. - SEC.	58. METERING BODY - PRI.
22. BAFFLE - SEC. FUEL	59. JETS (2) - MAIN
23. RETAINER FLOAT	60. VALVE - PRI. ENRICHMENT
24. FLOAT & SPRING ASSY. - SEC.	61. GASKET - PRI. ENRICHMENT VALVE
25. PLUG - SIGHT	62. CAP (2) - IDLE LIMITER
26. GASKET - SIGHT PLUG	63. NEEDLE (2) - IDLE ADJUSTING
27. SCREW (6) - SEC. METERING BODY	64. SEAL (2) - IDLE ADJ. NEEDLE
28. METERING BODY - SEC.	65. GASKET - PRI. METERING BODY
29. GASKET - METERING BODY	66. TUBE - PUMP PASSAGE
30. PLATE - METERING BODY	67. O-RING (2) - TUBE
31. GASKET - FUEL BOWL & METERING BODY	68. SCREW & LOCKWASHER (6) - THROTTLE BODY
32. TUBE - FUEL LINE	69. THROTTLE BODY ASSY.
33. O-RING (2) - FUEL LINE TUBE	70. GASKET - THROTTLE BODY
34. SCREW & LOCKWASHER (4) - PUMP COVER	71. MAIN BODY ASSY.
35. COVER ASSY. - PUMP DIAPHRAGM	72. SCREW - PUMP NOZZLE
36. PUMP DIAPHRAGM ASSY	73. GASKET (2) - PUMP NOZZLE
37. SPRING - PUMP DIAPHRAGM	74. NOZZLE - PUMP DISC
	75. NEEDLE - PUMP DISC CHECK

CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG
ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL USING A COLD IMMERSION
TYPE CARBURETOR CLEANER. 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 ASSEMBLIES WITH
ATTACHED PLASTIC PARTS FOR A LONG PERIOD OF TIME. DO NOT SOAK ANY PARTS
CONTAINING RUBBER, FLOATS, OR DIAPHRAGM ASSYS.

REASSEMBLY

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

SPECIAL INSTRUCTIONS

PRIMARY IDLE ADJUSTING NEEDLES(63) TURN IN UNTIL LIGHTLY SEATED, THEN BACK 1/4
TURN. (DO NOT INSTALL IDLE LIMITER CAPS AT THIS TIME.)

SCREWS LISTED BELOW MUST BE TIGHTENED IN THREE STAGES CROSSWISE TO ARRIVE
AT THE CORRECT TORQUE.

THROTTLE BODY GASKET (70)- BE SURE HOLES ARE PROPERLY MATCHED TO THROTTLE
BODY. TORQUE THROTTLE BODY SCREWS TO 50 INCH LBS.

ENRICHMENT VALVE (60)- INSTALL WITH GASKET AND TORQUE TO 100 INCH LBS.

PUMP INLET CHECK VALVE (45) - 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 CASTING

PRI. AND SEC. FUEL BOWL (40)-(20) - BEFORE INSTALLING MAKE DRY FLOAT LEVEL
ADJUSTMENT. COMPLETE FLOAT ADJUSTMENTS AS PER FIG. 2

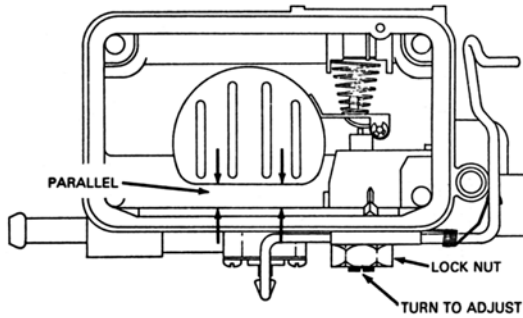
BOWL SCREW INSTALLATION (38)-(18)- INSTALL GASKETS(39)-(19)ON SCREWS BEFORE
INSTALLING, THEN TORQUE EVENLY IN STAGES TO 40 INCH LBS.

FUEL LINE TUBE(32)INSTALL O-RINGS (33) ON THE EXTREME ENDS OF THE TUBE THEY WILL
ROLL ON THE TUBE WHEN INSTALLING THE FUEL LINES

O-RINGS - LUBRICATE LIGHTLY BEFORE INSTALLING

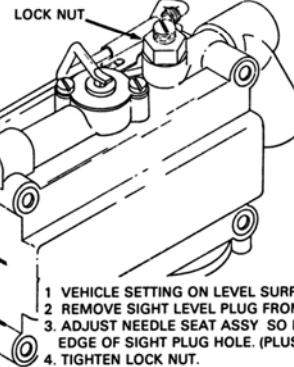
ADJUSTMENTS

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



PRIMARY & SECONDARY
DRY FLOAT LEVEL ADJUSTMENT

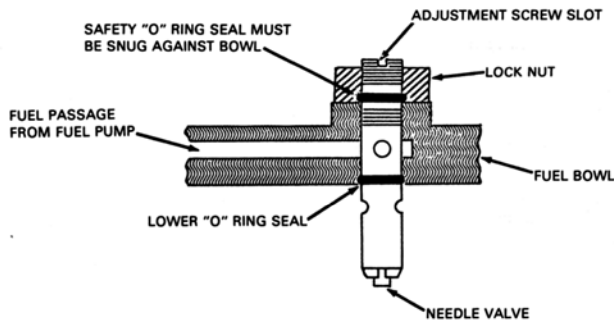
FIG. 1



1. VEHICLE SETTING ON LEVEL SURFACE AND 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.

PRIMARY & SECONDARY
WET FLOAT LEVEL ADJUSTMENT

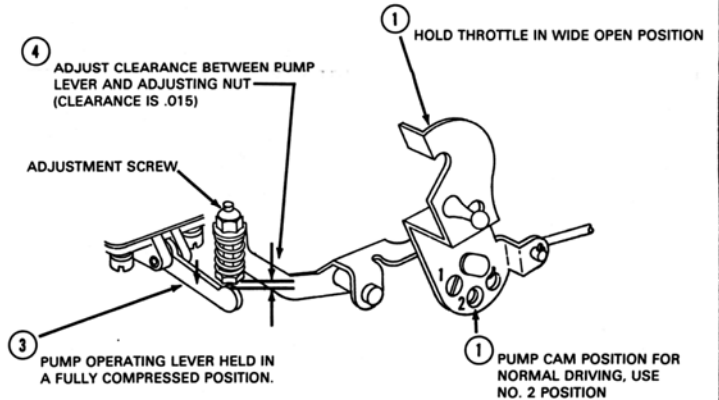
FIG. 2



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

SAFETY SEAL ADJUSTABLE FUEL VALVE

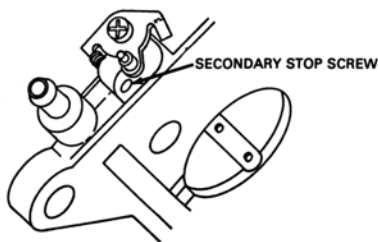
FIG. 3



PUMP ADJUSTMENT

FIG. 4

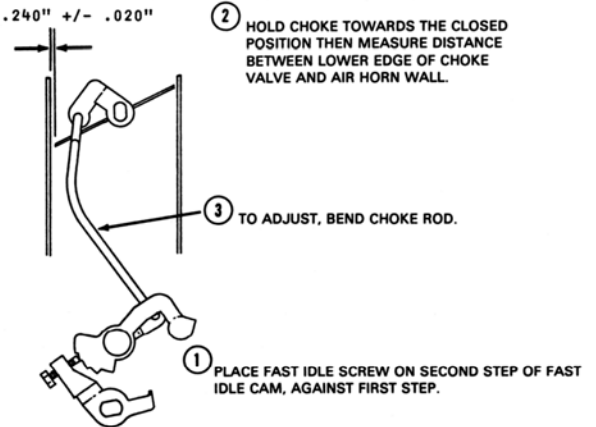
SECONDARY THROTTLE STOP SCREW. BACK OUT UNTIL SECONDARY PLATES ARE CLOSED. TURN SCREW IN UNTIL IT CONTACTS STOP, THEN TURN SCREW IN 1/2 TURN MORE.



SECONDARY THROTTLE STOP ADJUSTMENT

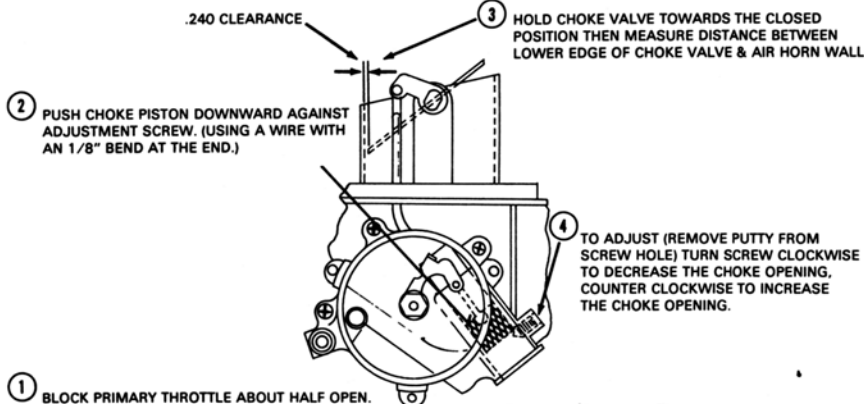
FIG. 5

CLEARANCE .240" +/- .020"



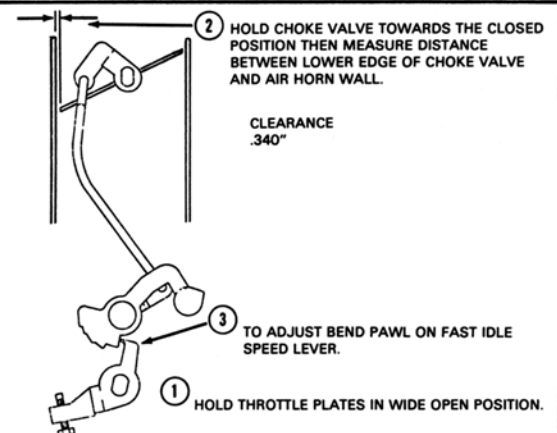
FAST IDLE CAM INDEX ADJUSTMENT

FIG. 6



CHOKE PLATE PULLDOWN ADJUSTMENT

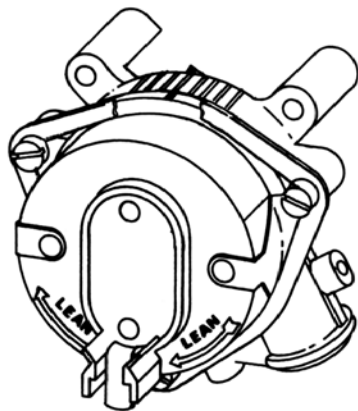
FIG. 7



UNLOADER ADJUSTMENT

FIG. 8

ALIGN MARK ON STAT COIL WITH PROPER INDEX MARK ON CHOKE HOUSING. (SEE DATA TABLE FOR SETTING.)

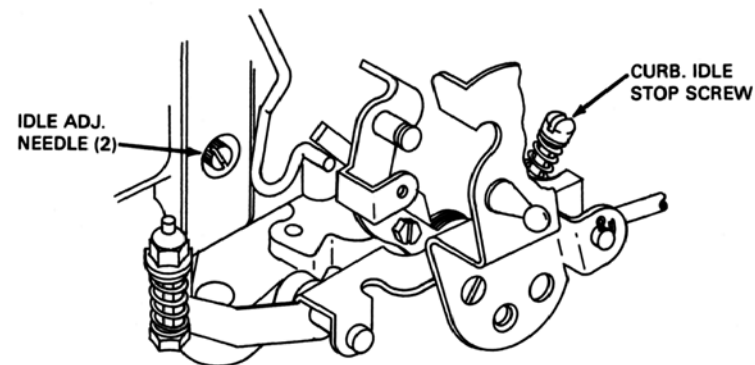


SETTING
2-RICH

AUTOMATIC CHOKE SETTING

FIG. 9

ENGINE AT OPERATING TEMP. AND CHOKE VALVE WIDE OPEN. ADJUST IDLE MIXTURE NEEDLES VIA PROPANE ENRICHMENT METHOD PER FORD SHOP MANUAL. ADJUST IDLE STOP SCREW TO ENGINE SPEED PER ENGINE DECAL.



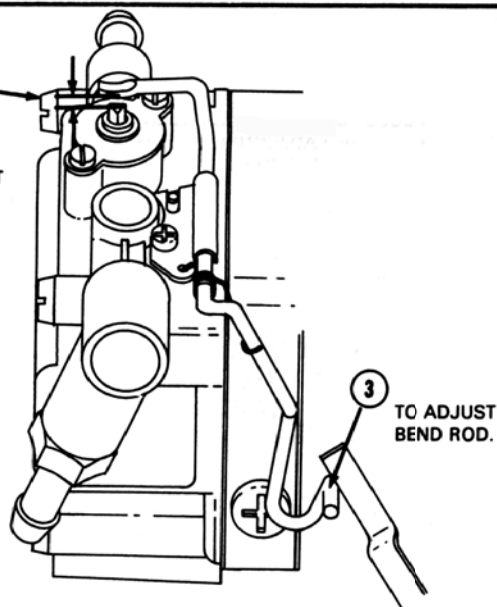
SLOW IDLE ADJUSTMENT

FIG. 10

CLEARANCE
0.15"

② MEASURE DISTANCE BETWEEN VENT VALVE STEM AND OPERATING ROD.

① CURB IDLE ADJUSTED. THROTTLE VALVES AT CURB IDLE POSITION.

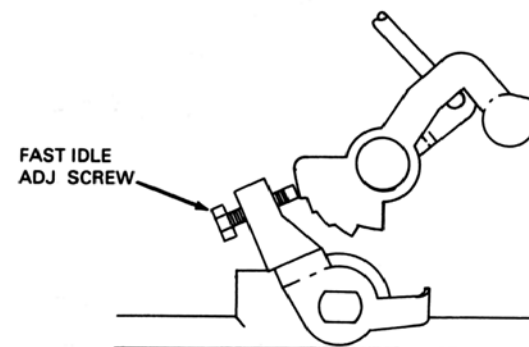


③ TO ADJUST
BEND ROD.

(ON VEHICLE)
BOWL-VENT ADJUSTMENT

FIG. 11

CURB IDLE ADJUSTED, PLACE FAST IDLE SCREW ON HIGH STEP OF FAST IDLE CAM. SET TO R.P.M. FOUND ON ENGINE DECAL.



FAST IDLE ADJUSTMENT

FIG. 12