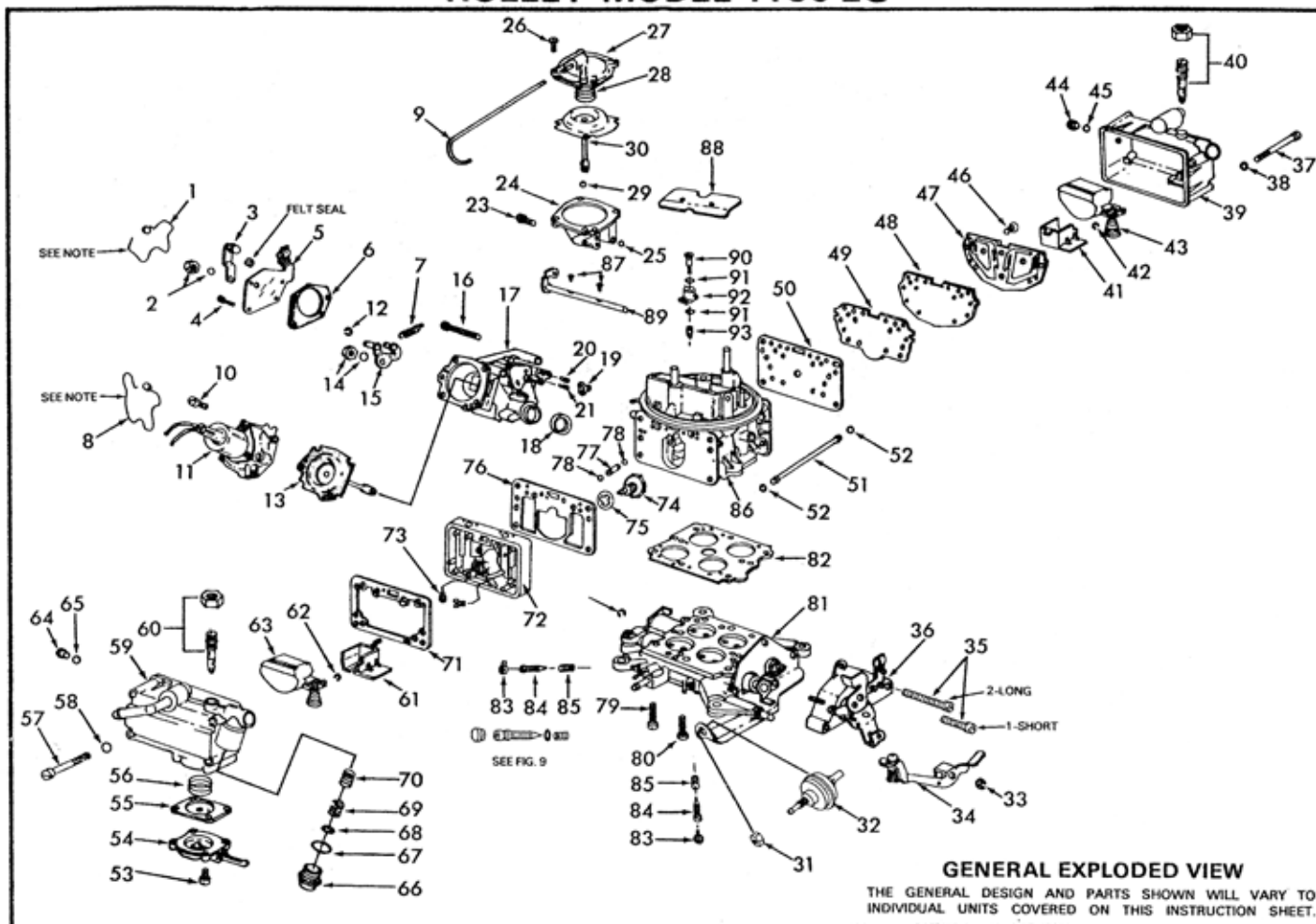


INSTRUCTION SHEET OFF VEHICLE CARBURETOR SERVICE HOLLEY-MODEL 4180 EG

50-632



DISASSEMBLY

USE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FOR PART CLEANING AND INSPECTION. IDENTIFY PRIMARY & SECONDARY FLOATS AS THEY ARE REMOVED FROM FUEL BOWLS. NOTE: THE CHOKE PLATE RETAINING SCREWS ARE STAKED AT THE THREADED END AND THIS STAKING MUST BE FILED OFF BEFORE REMOVING SCREWS. BE CAREFUL NOT TO DAMAGE THE CHOKE SHAFT OR VENTURI WHILE FILING THE SCREWS. DO NOT REMOVE SECONDARY IDLE SCREW PLUGS OR ADJUSTING SCREWS. FACTORY ADJUSTED FOR EMISSION CONTROL. (1982 TAMPERPROOF IDLE MIXTURE SCREW REMOVAL SEE FIG. 9).

NOMENCLATURE

REF. NO.	REF. NO.
1. SEAL & WIRE — COVER	26. SCREW & LOCKWASHER (4) — COVER
2. NUT & LOCKWASHER — LEVER	27. COVER — SEC. DIAPHRAGM
3. LEVER — CHOKE WIRE	28. SPRING — SEC. DIAPHRAGM
4. SCREW & LOCKWASHER (4) — COVER	29. BALL — SEC. VACUUM CHECK
5. COVER — GOVERNOR HOUSING	30. DIAPHRAGM — SECONDARY
6. GASKET — GOVERNOR COVER	31. NUT-THROTTLE KICKER
7. SPRING — GOVERNOR	32. DECAL THROTTLE KICKER ASSY.
8. SEAL & WIRE — DIAPHRAGM COVER	33. E-CLIP-LEVER
9. HOSE — GOV. TO SEC. DIAPHRAGM COVER	34. LEVER ASSY. — PUMP
10. SCREW & LOCKWASHER (4) — DIAPHRAGM & SOLENOID COVER.	35. SCREW & LOCKWASHER (3) — THROTTLE OPERATING SHAFT HOUSING
11. COVER ASSY. — DIAPHRAGM & SOLENOID	36. HOUSING ASSY. — THROTTLE OPERATING SHAFT
12. E-CLIP-DIAPHRAGM STEM RETAINER	37. SCREW (4) — SEC. FUEL BOWL
13. DIAPHRAGM ASSEMBLY	38. GASKET (4) — SEC. BOWL SCREW
14. NUT & LOCKWASHER — GOV. LEVER	39. BOWL ASSY. — SEC. FUEL
15. LEVER — GOVERNOR	40. NEEDLE & SEAT ASSY. — SEC.
16. SCREW & LOCKWASHER (3) — GOV. HOUSING	41. BAFFLE — SEC. FUEL
17. GOV. HOUSING ASSY.	42. RETAINER — SEC. FUEL
18. SEAL — GOV. HOUSING	43. FUEL & SPRING ASSY. — SEC.
19. GASKET — GOV. HOUSING	44. PLUG — FUEL LEVEL
20. JET "A" GOV. HOUSING	45. GASKET — PLUG
21. JET "B" GOV. HOUSING	46. SCREW (6) — SEC. METERING BODY
22. RETAINER — SEC. DIAPHRAGM STEM	47. METERING BODY — SEC.
23. SCREW & LOCKWASHER (3) — SEC. DIAPHRAGM HOUSING	48. GASKET — METERING BODY
24. SEC. DIAPHRAGM HOUSING ASSY.	49. PLATE — METERING BODY
25. GASKET — SEC. DIAPHRAGM HOUSING	50. GASKET — FUEL BOWL & METERING BODY
	51. TUBE — FUEL LINE
	52. O-RING (2) — FUEL LINE TUBE
	53. SCREW & LOCKWASHER (4) — PUMP COVER

GENERAL EXPLODED VIEW

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

REF. NO.	REF. NO.
54. COVER ASSY. — PUMP DIAPHRAGM	75. GASKET — PRI. ENRICHMENT VALVE
55. DIAPHRAGM — PUMP	76. GASKET — PRI. METERING BODY
56. SPRING — PUMP DIAPHRAGM	77. TUBE — PUMP PASSAGE
57. SCREW (4) — PRI. FUEL BOWL	78. O-RING (2) — TUBE
58. GASKET (4) — PRI. BOWL SCREW	79. SCREW & LOCKWASHER (7) — THROTTLE BODY
59. BOWL ASSY. — PRIMARY	80. SCREW & LOCKWASHER (1) — THROTTLE BODY
60. NEEDLE & SEAT ASSY. — PRI.	81. THROTTLE BODY ASSY.
61. BAFFLE — PRI. FUEL	82. GASKET — THROTTLE BODY
62. RETAINER — PRI. FLOAT	83. CAP (2) — IDLE LIMITER
63. FUEL & SPRING ASSY. — PRI.	84. SCREW (2) — IDLE ADJUSTING
64. PLUG — FUEL LEVEL	85. SPRING (2) — IDLE ADJ. SCREW
65. GASKET — PLUG	86. MAIN BODY ASSY.
66. FITTING — FUEL INLET	87. SCREW (2) — CHOKE PLATE
67. GASKET — FITTING	88. PLATE — CHOKE
68. GASKET — FILTER	89. SHAFT — CHOKE PLATE
69. FILTER — FUEL	90. SCREW — PUMP NOZZLE
70. SPRING — FILTER	91. GASKET (2) — PUMP NOZZLE
71. GASKET — PRI. FUEL BOWL	92. NOZZLE — PUMP DISC
72. METERING BODY — PRI.	93. NEEDLE — PUMP DISC. CHECK
73. JET (2) — MAIN	
74. VALVE — PRI. ENRICHMENT	

CLEANING

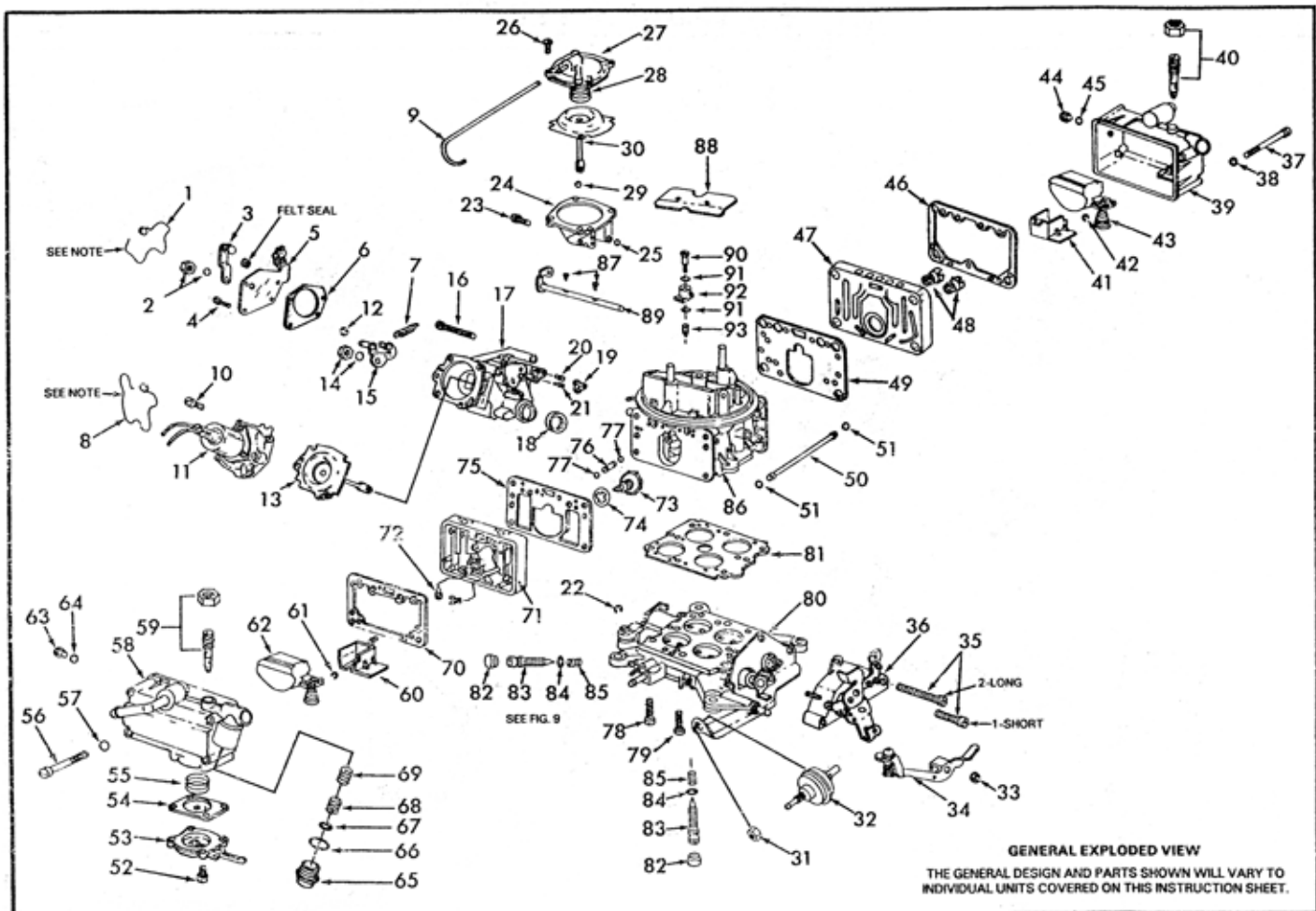
CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL USING A COLD IMMERSION TYPE CARBURETOR CLEANER. MAKE CERTAIN THE THROTTLE BORES ARE FREE OF ALL CARBON AND VARNISH DEPOSITS. RINSE OFF IN SUITABLE SOLVENT. BLOW OUT ALL PASSAGES IN CASTINGS 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.

NOTE: ITEM NO. 1 & 8 IS NOT A KIT SERVICE REPLACEMENT PART.

INSTRUCTION SHEET HOLLEY CARBURETOR-MODEL 4190EG



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. IDENTIFY PRIMARY & SECONDARY FLOATS AS THEY ARE REMOVED FROM FUEL BOWLS. NOTE: THE CHOKE PLATE RETAINING SCREWS ARE STAKED AT THE THREADED END AND THIS STAKING MUST BE FILED OFF BEFORE REMOVING SCREWS. BE CAREFUL NOT TO DAMAGE THE CHOKE SHAFT OR VENTURI WHILE FILING THE SCREWS. DO NOT REMOVE SECONDARY IDLE SCREW PLUGS OR ADJUSTING SCREWS. FACTORY ADJUSTED FOR EMISSION CONTROL. (1982 TAMPERPROOF IDLE MIXTURE SCREW REMOVAL SEE FIG. 9).

NOMENCLATURE

REF. NO.	REF. NO.
1. SEAL & WIRE COVER	30. DIAPHRAGM-SECONDARY
2. NUT & LOCKWASHER-LEVER	31. NUT-THROTTLE KICKER
3. LEVER-CHOKE WIRE	32. DECEL THROTTLE KICKER ASSY.
4. SCREW & LOCKWASHER (4)-COVER	33. E-CLIP-LEVER
5. COVER-GOVERNOR HOUSING	34. LEVER ASSY.-PUMP
6. GASKET-GOVERNOR COVER	35. SCREW & LOCKWASHER (3)-THROTTLE
7. SPRING-GOVERNOR	OPERATING SHAFT HOUSING
8. SEAL & WIRE-DIAPHRAGM COVER	36. HOUSING ASSY.-THROTTLE OPERATING
9. HOSE-GOV. TO SEC. DIAPHRAGM COVER	SHAFT
10. SCREW & LOCKWASHER (4)-DIAPHRAGM	37. SCREW (4)-SEC. FLOAT BOWL
& SOLENOID COVER	38. GASKET (4)-SEC. BOWL SCREW
11. COVER ASSY.-DIAPHRAGM & SOLENOID	39. BOWL ASSY.-SEC. FUEL
12. E-CLIP-DIAPHRAGM STEM RETAINER	40. NEEDLE & SEAT ASSY.-SEC.
13. DIAPHRAGM ASSEMBLY	41. BAFFLE-SEC. FUEL
14. NUT & LOCKWASHER-GOV. LEVER	42. RETAINER-SEC. FLOAT
15. LEVER-GOVERNOR	43. FLOAT & SPRING ASSY.-SEC.
16. SCREW & LOCKWASHER (3)-GOV.	44. PLUG-FUEL LEVEL
HOUSING	45. GASKET-PLUG
17. GOV. HOUSING ASSY.	46. GASKET-SEC. FUEL BOWL
18. SEAL-GOV. HOUSING	47. METERING BODY-SEC.
19. GASKET-GOV. HOUSING	48. JET (2)-SEC. MAIN
20. JET "A" GOV. HOUSING	49. GASKET-SEC. METERING BODY
21. JET "B" GOV. HOUSING	50. TUBE-FUEL LINE
22. RETAINER-SEC. DIAPHRAGM STEM	51. O-RING (2)-FUEL LINE TUBE
23. SCREW & LOCKWASHER (3)-SEC.	52. SCREW & LOCKWASHER (4)-PUMP
DIAPHRAGM HOUSING	COVER
24. SEC. DIAPHRAGM HOUSING ASSY.	53. COVER ASSY.-PUMP DIAPHRAGM
25. GASKET-SEC. DIAPHRAGM HOUSING	54. DIAPHRAGM-PUMP
26. SCREW & LOCKWASHER (4)-COVER	55. SPRING-PUMP DIAPHRAGM
27. COVER-SEC. DIAPHRAGM	56. SCREW (4)-PRI. FUEL BOWL
28. SPRING-SEC. DIAPHRAGM	57. GASKET (4)-PRI. BOWL SCREW
29. BALL-SEC. VACUUM CHECK	58. BOWL ASSY.-PRIMARY

REF. NO.	REF. NO.
59. NEEDLE & SEAT ASSY.-PRI.	77. O-RING (2)-TUBE
60. BAFFLE-PRI. FUEL	78. SCREW & LOCKWASHER (7)-THROTTLE
61. RETAINER-PRI. FLOAT	BODY
62. FLOAT & SPRING ASSY.-PRI.	79. SCREW & LOCKWASHER (1)-THROTTLE BODY
63. PLUG-FUEL LEVEL	80. THROTTLE BODY ASSY.
64. GASKET-PLUG	81. GASKET-THROTTLE BODY
65. FITTING-FUEL INLET	82. PLUG (2)-IDLE LIMITER
66. GASKET-FITTING	83. SCREW (2)-IDLE ADJUSTING
67. GASKET-FILTER	84. O-RING-IDLE ADJ. SCREW
68. FILTER-FUEL	85. SPRING (2)-IDLE ADJ. SCREW
69. SPRING-FILTER	86. MAIN BODY ASSY.
70. GASKET-PRI. FUEL BOWL	87. SCREW (2)-CHOKE PLATE
71. METERING BODY-PRI.	88. PLATE-CHOKE
72. JET (2)-MAIN	89. SHAFT-CHOKE PLATE
73. VALVE-PRI. ENRICHMENT	90. SCREW-PUMP NOZZLE
74. GASKET-PRI. ENRICHMENT VALVE	91. GASKET (2)-PUMP NOZZLE
75. GASKET-PRI. METERING BODY	92. NOZZLE-PUMP DISC.
76. TUBE-PUMP PASSAGE	93. 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.

NOTE: ITEM NO. 1 & 8 IS NOT A KIT SERVICE REPLACEMENT PART.

ADJUSTMENTS

SPECIAL INSTRUCTIONS

CHOKE PLATE SCREWS-STAKE SCREWS AFTER INSTALLATION.

PRIMARY IDLE ADJUSTING SCREWS-TURN IN UNTIL LIGHTLY SEATED, THEN BACK OUT 1 1/4 TURNS. DO NOT INSTALL IDLE LIMITER CAPS AT THIS TIME. (1982 SEE FIG. 9).

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

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

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

PR. AND SEC. FUEL BOWLS-BEFORE INSTALLING MAKE DRY FLOAT LEVEL ADJUSTMENT.

SEC. METERING BODY SCREW INSTALLATION-TORQUE EVENLY IN STAGES TO 18 INCH LBS.

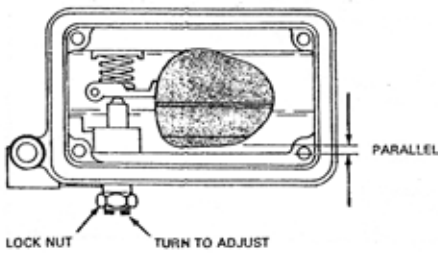
BOWL SCREW INSTALLATION-INSTALL GASKETS ON SCREWS BEFORE INSTALLING, THEN TORQUE EVENLY IN STAGES TO 50 INCH LBS.

FUEL LINE TUBE-INSTALL O-RINGS ON THE EXTREME ENDS OF THE TUBE, THEY WILL ROLL ON THE TUBE WHEN INSTALLING THE FUEL BOWLS.

O-RINGS-LUBRICATE LIGHTLY BEFORE INSTALLING.

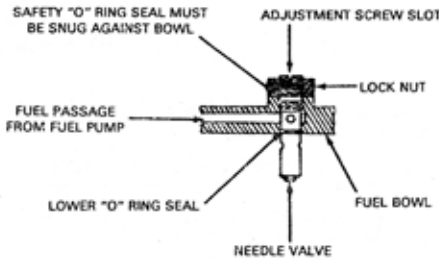
GOVERNOR DIAPHRAGM-INSTALLATION SEE FIG. 7.

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 ADJUSTMENTS

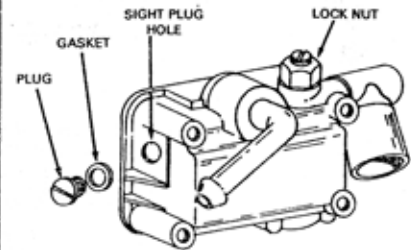
FIG. 2



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

SAFETY SEAL ADJUSTABLE FUEL VALVE

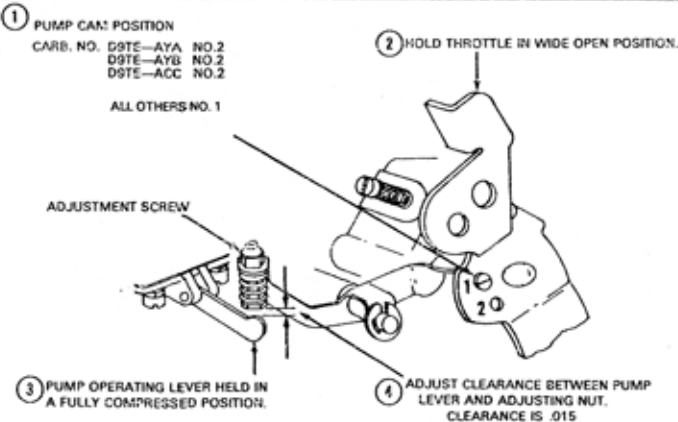
FIG. 3



1. TRUCK 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

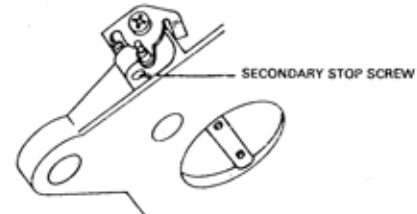
FIG. 4



PUMP ADJUSTMENT

FIG. 5

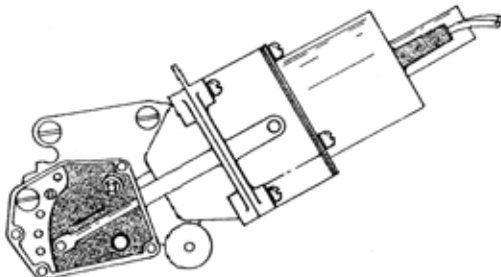
SECONDARY THROTTLE STOP SCREW. BACK OUT UNTIL SECONDARY PLATES ARE CLOSED. TURN SCREW IN UNTIL IT CONTACTS STOP, THEN TURN SCREW IN 1/2 TURN MORE.



SECONDARY THROTTLE STOP ADJUSTMENT

FIG. 6

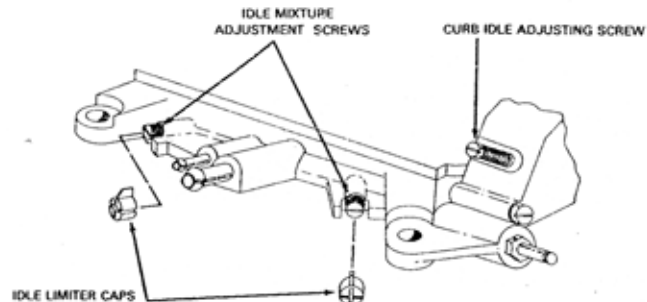
INSTALL COVER WITH THE SCREWS FINGER TIGHT. PULL THE DIAPHRAGM ROD AS FAR AS IT WILL GO AND THEN TIGHTEN SCREWS EVENLY WHILE MAINTAINING DIAPHRAGM STRETCHED IN THIS POSITION.



INSTALLING GOVERNOR DIAPHRAGM

FIG. 7

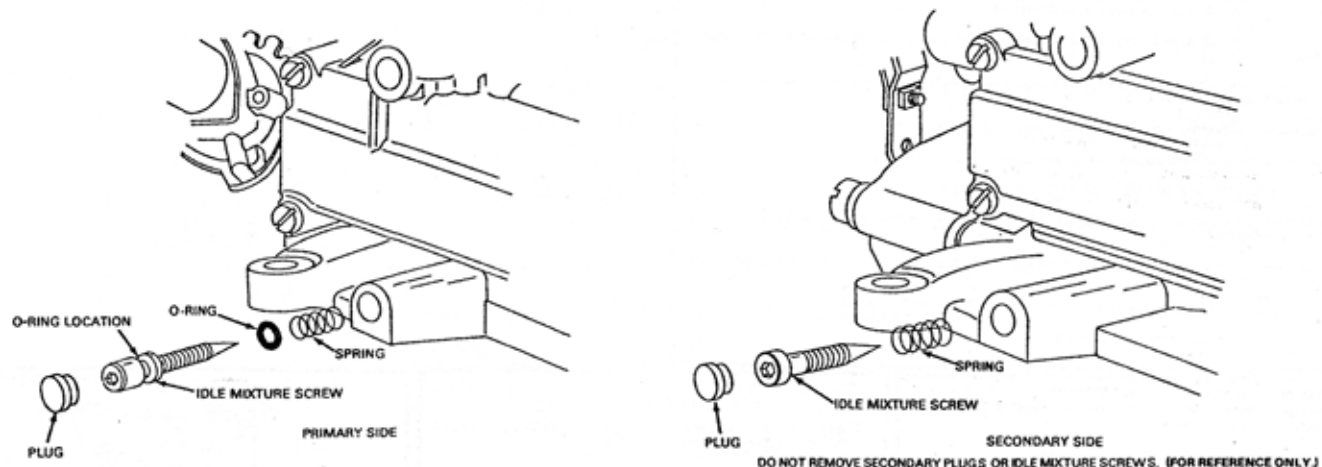
ENGINE AT OPERATING TEMPERATURE REFER TO ENGINE DECAL AND SERVICE MANUAL FOR PROPER IDLE ADJUSTING PROCEDURE & SPECIFICATIONS



SLOW IDLE ADJUSTMENT

FIG. 8

1982 TAMPERPROOF IDLE MIXTURE SCREWS



TO REMOVE TAMPERPROOF IDLE MIXTURE CONCEALMENT PLUG, CENTER PUNCH AND DRILL 3/32" DIAMETER HOLE THROUGH THE HARDENED STEEL PLUG. INSTALL AN EASY OUT AND REMOVE THE PLUG.

BEFORE REMOVING IDLE ADJUSTING SCREWS, CAREFULLY TURN SCREWS IN CLOCKWISE COUNTING THE NUMBER OF TURNS IT TAKES TO LIGHTLY SEAT SCREWS. (RECORD FOR PROPER REASSEMBLY).

REASSEMBLY: TURN IN IDLE MIXTURE SCREWS UNTIL LIGHTLY SEATED. THEN BACK OUT THE NUMBER OF TURNS RECORDED ON DISASSEMBLY. REPLACE PLUG TO INSURE PROPER METERING.

FIG. 9