

INSTRUCTION SHEET

OFF VEHICLE CARBURETOR SERVICE

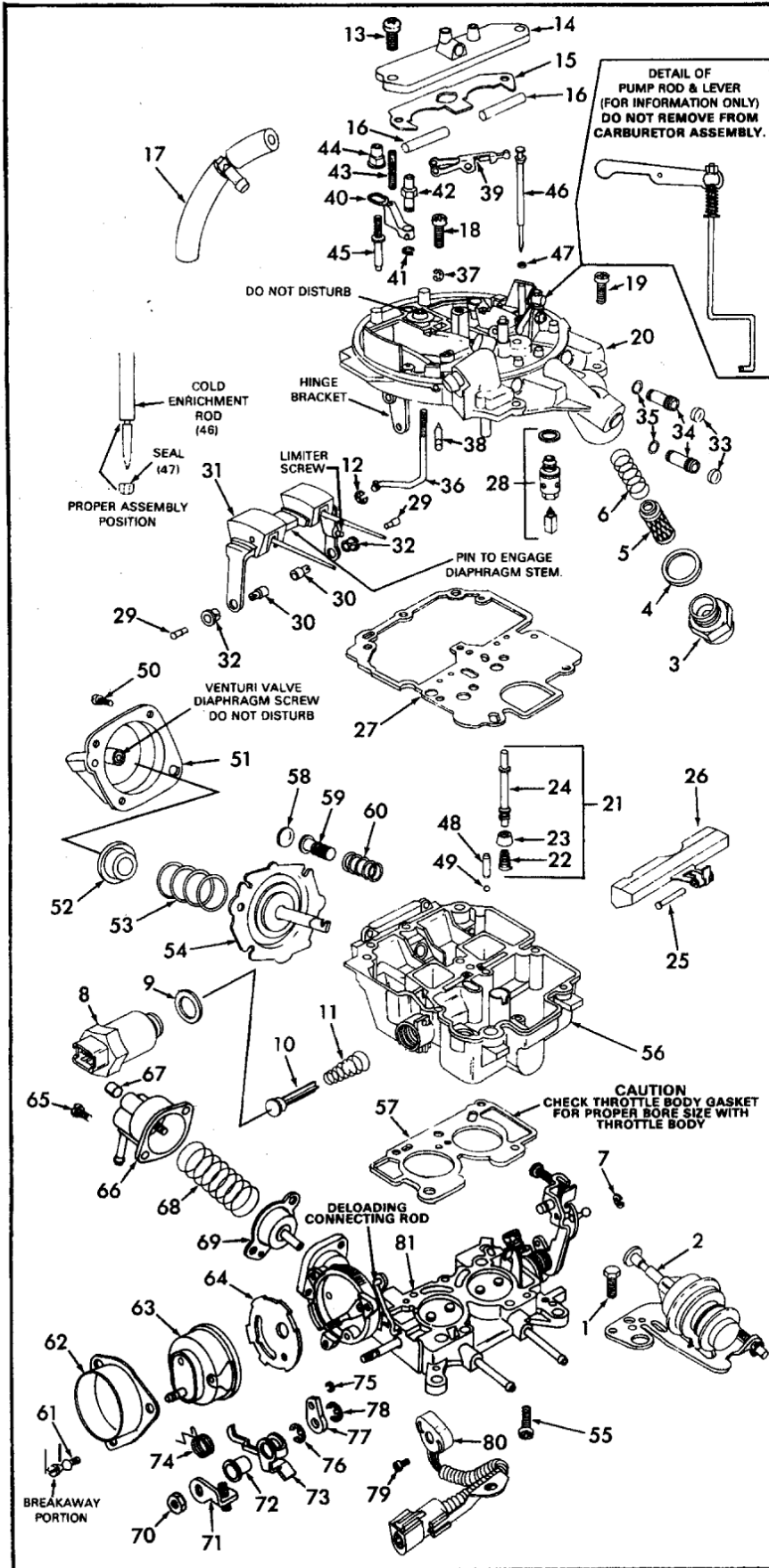
MOTORCRAFT MODEL-7200VV.

50-628-2

1981-1991

GENERAL EXPLODED VIEW

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



DISASSEMBLY

USE THE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION.

SPECIAL INSTRUCTIONS

CAUTION: ALWAYS BLOCK THE VENTURI VALVES WIDE OPEN WHEN WORKING ON THE MAIN METERING JETS. ITEM (34).

BEFORE REMOVING THROTTLE POSITION SENSOR (81) SCRIBE TWO MARKS ON SENSOR AND THROTTLE BODY FOR PROPER REASSEMBLY.

NOTE POSITION OF THE LONG BOWL COVER SCREWS FOR PROPER REASSEMBLY. ITEM (18).

PIVOT PLUGS (29) AND VENTURI VALVE (31)-SUPPORT BOWL COVER HINGE BRACKET THEN USING A SMALL PUNCH, LIGHTLY TAP PIVOT PLUG FROM PIVOT PIN. REMOVE VENTURI VALVE AND METERING ROD ASSEMBLY (31) BY SLIDING BACKWARD.

CUP PLUGS (33)-CAREFULLY PUNCH OR DRILL HOLE IN CENTER OF PLUG, THEN USING AN EASY OUT TYPE PULLER, TAP PLUG OUT OF BOWL COVER.

MAIN JETS (34)-BEFORE REMOVING. USE JET WRENCH OR A PROPER FITTING SCREWDRIVER TO CAREFULLY TURN JETS IN CLOCKWISE, COUNTING THE EXACT NUMBER OF TURNS IT TAKES TO SEAT JET IN CASTING, RECORD NUMBER OF TURNS TO THE NEAREST 1/4 TURN.

REMOVE JETS, THEN IDENTIFY THE JETS AND METERING RODS, THROTTLE SIDE OR CHOKE SIDE FOR PROPER REASSEMBLY.

CHOKE ROD (36)-TO REMOVE CHOKE ROD AND C. E. & C. V. ROD ASSY. HOLD CHOKE ROD AND BREAK LOWER SECTION OF ROD OFF, REMOVE E-CLIP (37) AND PIVOT (38) TO REMOVE LEVER ASSY. C. V. ROD AND SWIVEL ASSY. WILL NOT BE USED OVER, PARTS ARE SEALED WITH EPOXY.

WELCH PLUG (58)-PUNCH OR DRILL HOLE IN CENTER OF PLUG, USING AN EASY OUT TYPE PULLER. TAP PLUG FROM SEAT.

TO REMOVE CHOKE COVER CLAMP TAMPER PROOF SCREWS (61). CENTER PUNCH THE SCREW HEAD, THEN USING A 1/4" DRILL, DRILL THE SCREW HEAD DEEP ENOUGH TO REMOVE THE RETAINING RING. CAREFULLY REMOVE THE CAP (64) AND THE CHOKE CAP GASKET. REMOVE THE REMAINING PORTION OF THE CHOKE CAP RETAINING SCREWS WITH A LOCKING PLIERS. CHOKE DIAPHRAGM COVER SCREWS (68) FOLLOW THE SAME PROCEDURE.

FOR 1981, TO REMOVE CAP (64), INSERT A SHARP FLAT CHISEL BETWEEN THE LAYERS OF THE CHOKE CAP GASKET, THEN CLEAN ANY REMAINING GASKET & EPOXY FROM THE MATING SURFACES WITH A GASKET SCRAPER.

USE TOOL T81L-2100-H15 FOR REMOVAL OF SCREWS (13).

NOMENCLATURE

REF. NO.	REF. NO.
1. SCREW-THROTTLE RETURN CONTROL	47. SEAL-C E ROD
2. THROTTLE RETURN CONTROL DEVICE	48. WEIGHT-PUMP CHECK BALL
3. FITTING-FUEL INLET	49. BALL-PUMP CHECK
4. GASKET-FITTING	50. SCREW & LKWSHR. (4)-DIAPHRAGM COVER
5. FILTER-FUEL	51. COVER-DIAPHRAGM
6. SPRING-FILTER	52. GUIDE-SPRING
7. E-CLIP-PUMP ROD	53. SPRING-DIAPHRAGM
8. FEEDBACK CONTROL MOTOR (7200)	54. DIAPHRAGM-VENTURI VALVE
9. GASKET-CONTROL MOTOR (7200)	55. SCREW & LKWSHR. (5)-THROTTLE BODY
10. VALVE-METERING VALVE (7200)	56. BOWL ASSEMBLY
11. SPRING-METERING VALVE (7200)	57. GASKET-THROTTLE BODY
12. E-CLIP-CHOKE CONTROL ROD	58. PLUG-WIDE OPEN STOP SCREW
13. TORX SCREW (2)-COVER PLATE	59. SCREW-WIDE OPEN STOP
14. COVER PLATE-VENTURI VALVE	60. SPRING-WIDE OPEN STOP SCREW
15. GASKET-COVER PLATE	61. SCREW (3)-RETAINER (BREAKWAY)
16. ROLLER BEARINGS (2)	62. RETAINER-CHOKE THERMOSTATIC HOUSING
17. HOSE-CHOKE FRESH AIR (7200)	63. CHOKE THERMOSTATIC HOUSING
18. SCREW & LKWSHR. (6)-BOWL COVER (LONG)	64. GASKET-THERMOSTATIC HOUSING
19. SCREW & LKWSHR. (2)-BOWL COVER	65. SCREW (2)-DIAPHRAGM HOUSING
20. BOWL COVER ASSEMBLY	66. COVER-DIAPHRAGM
21. PUMP PLUNGER ASSEMBLY	67. LEAD BALL-COVER ADJ. SCREW
22. SPRING-PUMP RETURN	68. SPRING-DIAPHRAGM
23. CUP-PUMP	69. DIAPHRAGM ASSEMBLY-CHOKE
24. STEM-PUMP	70. NUT & LKWSHR-LEVER
25. PIN-FLOAT HINGE	71. LEVER & FAST IDLE SCREW
26. FLOAT & LEVER ASSEMBLY	72. BUSHING-FAST IDLE CAM LEVER
27. GASKET-BOWL COVER	73. LEVER-FAST IDLE CAM
28. NEEDLE, SEAT & GASKET ASSEMBLY	74. SPRING-FAST IDLE CAM LEVER
29. PIVOT PLUG (2)-VENTURI VALVE	75. E-CLIP-DELOADING LEVER ROD (LOWER END)
30. PIVOT PIN (2)-VENTURI VALVE	76. E-CLIP-DELOADING LEVER
31. VENTURI VALVE & METERING ROD ASSEMBLY	77. LEVER-DELOADING
32. BUSHING (2)-VENTURI VALVE	78. E-CLIP-THROTTLE SHAFT
33. CUP PLUG (2)-MAIN JET	79. SCREW & LKWSHR. (2)-SENSOR (SOME MODELS)
34. JET (2)-MAIN METERING	80. THROTTLE POSITION SENSOR (SOME MODELS)
35. O-RING (2)-MAIN JET	81. THROTTLE BODY ASSEMBLY
36. ROD-CHOKE (SEE SPECIAL INSTRUCTION)	
37. E-CLIP-PIVOT	
38. PIVOT-C E ROD LEVER	
39. C E ROD LEVER	
40. C V ROD SWIVEL	
41. C-CLIP-CHOKE ROD NUT	
42. NUT-CHOKE ROD	
43. SCREW-C E TRAVEL STOP	
44. NUT-C V ROD	
45. CONTROL VACUUM REGULATOR (CV ROD)	
46. COLD ENRICHMENT ROD (CE ROD)	

*INSTALL THESE PARTS ONLY AFTER CERTAIN ADJUSTMENTS ARE MADE.

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 A SUITABLE SOLVENT. BLOW OUT ALL PASSAGES IN THE CASTINGS WITH COMPRESSED AIR AND CHECK CAREFULLY TO INSURE THOROUGH CLEANING OF OBSCURE AREAS. CAUTION: DO NOT SOAK PARTS CONTAINING NYLON OR RUBBER. THESE INCLUDE SOLENOIDS, SWITCHES, OR PARTS SUCH AS (2), (8), (10), (12), (54), (64), (67), (70), (81)

REASSEMBLY

REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL INSTRUCTIONS AND FOLLOW OUTLINE NUMERICALLY IN MAKING ADJUSTMENTS NECESSARY FOR CARBURETOR BEING ASSEMBLED. (SEE * ABOVE FOR REFERENCE.)

ADJUSTMENTS

SPECIAL INSTRUCTIONS

CHECK ADJUSTMENTS. SOME ARE MADE AS CARBURETOR IS BEING ASSEMBLED.

O-RING (2) REF. NO. 35-WHEN INSTALLING, LIGHTLY LUBRICATE WITH LIGHT OIL.

PARTS (40) THRU (45) MUST BE ASSEMBLED FIRST INTO A SUBASSEMBLY FOR FURTHER ASSEMBLY. SEE FIG. 21.

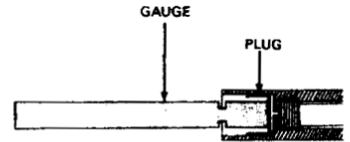
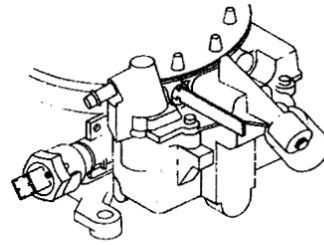
MAIN JETS (34)-- TURN EACH MAIN JET IN CLOCKWISE UNTIL IT IS SEATED IN THE CASTING. THEN TURN JET COUNTERCLOCKWISE THE NUMBER OF TURNS RECORDED DURING DISASSEMBLY.

CUP PLUGS (33) - USING A 3/8" DRIFT PUNCH, INSERT PLUG IN HOLE AND TAP LIGHTLY UNTIL PLUG SEATS IN CASTING. (SET PROPER DEPTH WITH GAUGE)- SEE FIG. 1

PIVOT PLUG (29) - TAPERED PLUGS CAN BE CAREFULLY PRESSED INTO THE PIVOT PIN USING PLIERS WITH PARALLEL JAWS IN THE OPEN POSITION.

FLOAT HINGE PIN (25) - INSTALL PIN SO FLAT HEAD OF PIN IS IN THE RECESSED LEG OF THE FLOAT HANGER ON THE BOWL COVER.

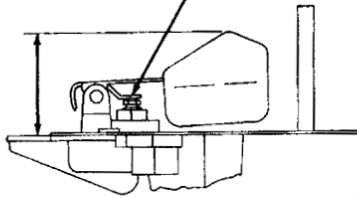
BOWL COVER ASSEMBLY (20) WHEN INSTALLING ON MAIN BODY, BE SURE LIMITER LEVER IS MOVED FORWARD TO CLEAR VENTURI VALVE ARM AND VENTURI VALVE DIAPHRAGM STEM ENGAGES THE VENTURI VALVE PIN.



MAIN JET CUP PLUG INSTALLATION

FIG. 1

- 1 (BOWL COVER GASKET REMOVED). BOWL COVER INVERTED MEASURE DISTANCE FROM CASTING SURFACE TO BOTTOM OF FLOAT. CHECK FLOAT PONTOON AT EACH END.
- 2 TO ADJUST BEND TAB

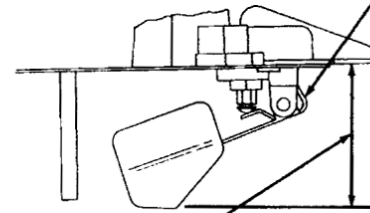


CAUTION: DO NOT EXERT PRESSURE ON RESILIENT NEEDLE VALVE.

DRY FLOAT LEVEL ADJUSTMENT

FIG. 2

- 2 TO ADJUST BEND STOP TAB

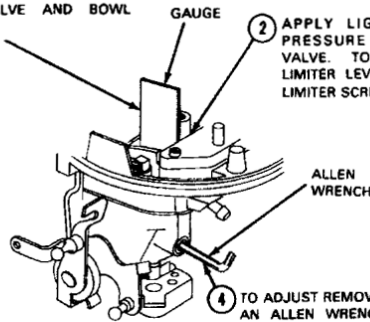


- 1 BOWL COVER HELD IN THE UPRIGHT POSITION. MEASURE DISTANCE FROM CASTING SURFACE (NOT GASKET) TO BOTTOM OF FLOAT.

FLOAT DROP ADJUSTMENT

FIG. 3

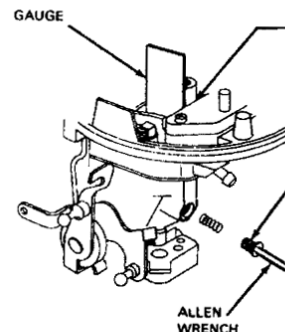
- 1 HOLD THROTTLE PLATES IN WIDE OPEN POSITION.
- 2 APPLY LIGHT CLOSING PRESSURE ON VENTURI VALVE TO MAKE SURE LIMITER LEVER IS AGAINST LIMITER SCREW
- 3 MEASURE DISTANCE BETWEEN VENTURI VALVE AND BOWL COVER.
- 4 TO ADJUST REMOVE GAUGE INSERT AN ALLEN WRENCH IN THROUGH STOP SCREW HOLE TO REACH ALLEN SCREW IN VENTURI ARM. TURN LIMITER ADJUSTING SCREW CLOCKWISE TO INCREASE GAP AND COUNTERCLOCKWISE TO DECREASE.
- 5 REPEAT STEPS (1), (2), (3).



VENTURI VALVE LIMITER ADJUSTMENT

FIG. 4

- 1 HOLD VENTURI VALVE IN MAX. WIDE OPEN POSITION.
- 2 INSTALL WOT STOP SCREW USING AN ALLEN WRENCH. TURN SCREW IN UNTIL IT CONTACTS VALVE. THEN TURN IN UNTIL SPECIFIED CLEARANCE IS OBTAINED BETWEEN VENTURI VALVE AND AIR HORN WALL.
- 3 REPLACE EXPANSION PLUG

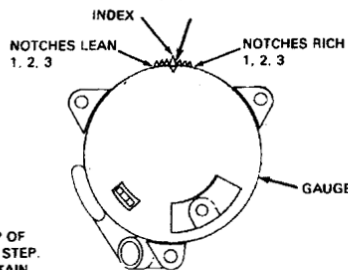


VENTURI VALVE WIDE OPEN STOP ADJUSTMENT

FIG. 5

- 1 PLACE FAST IDLE LEVER ON SPECIFIED STEP OF CAM AGAINST SHOULDER OF NEXT HIGHER STEP. HOLD THROTTLE LIGHTLY CLOSED TO MAINTAIN CAM POSITION.
- 2 INSTALL GAUGE AND ROTATE CLOCKWISE UNTIL CHOKE SHAFT LEVER CONTACTS THE ADJUSTING SCREW.
- 3 NOTCH ON GAUGE SHOULD LINE UP WITH TOOTH ON CHOKE CASTING.
- 4 TO ADJUST TURN FAST IDLE CAM ADJUSTING SCREW.

FAST IDLE LEVER

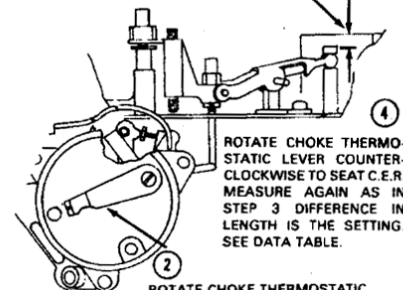


2700V CANADA
FAST IDLE CAM ADJUSTMENT

FIG. 6

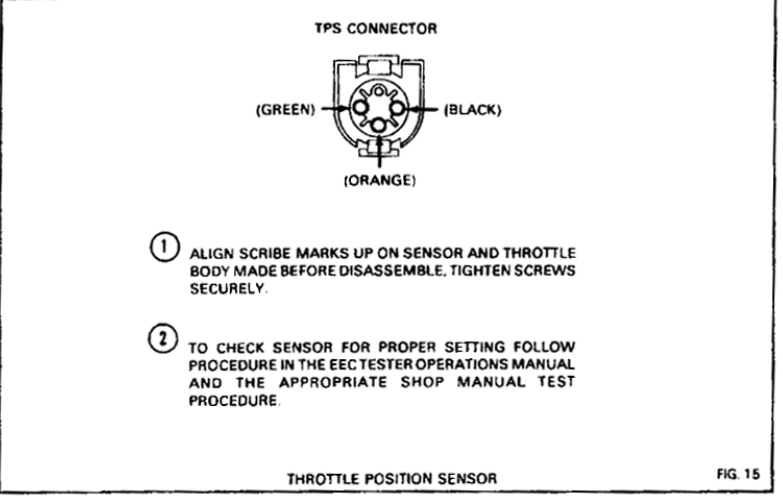
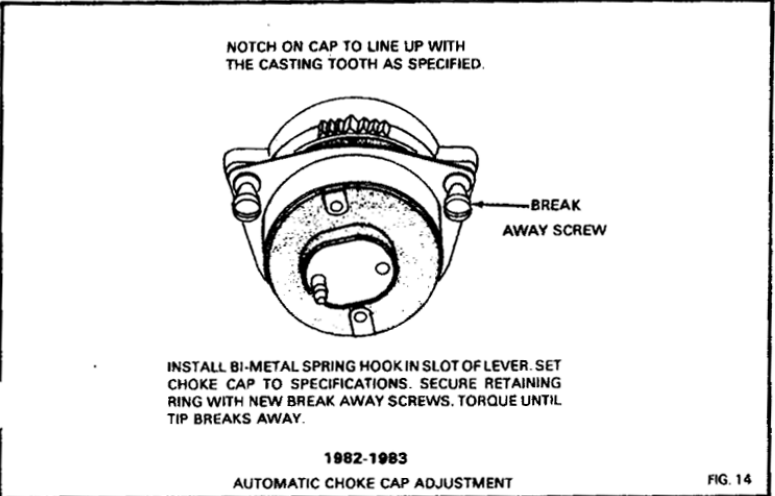
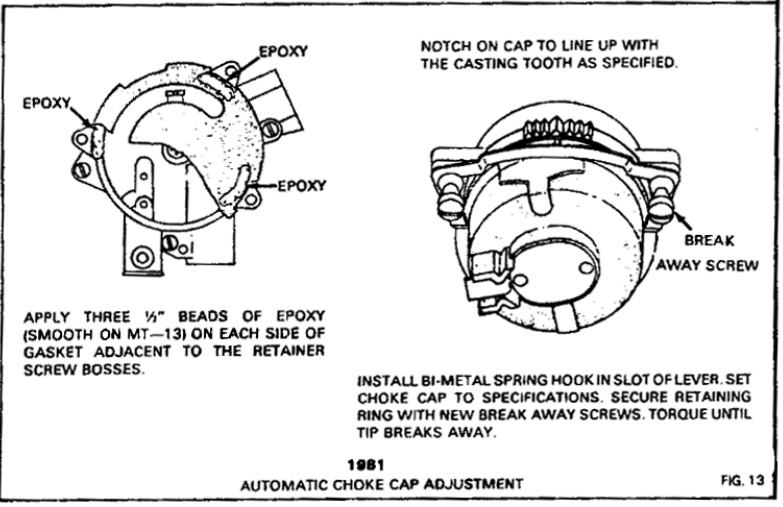
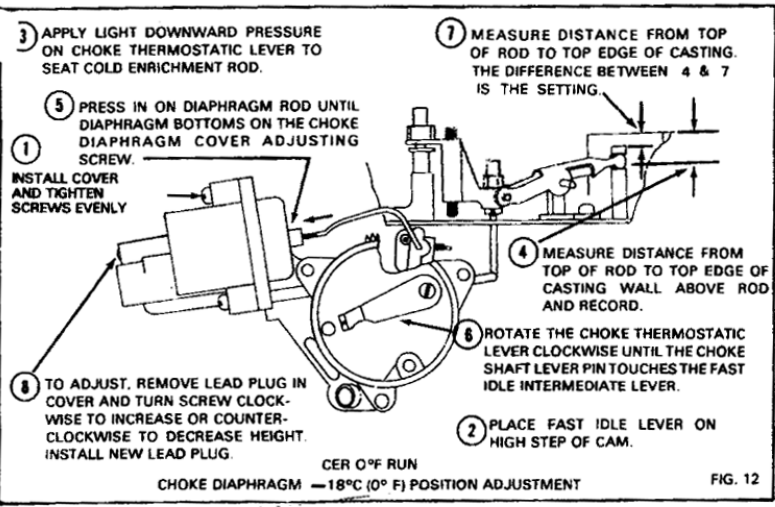
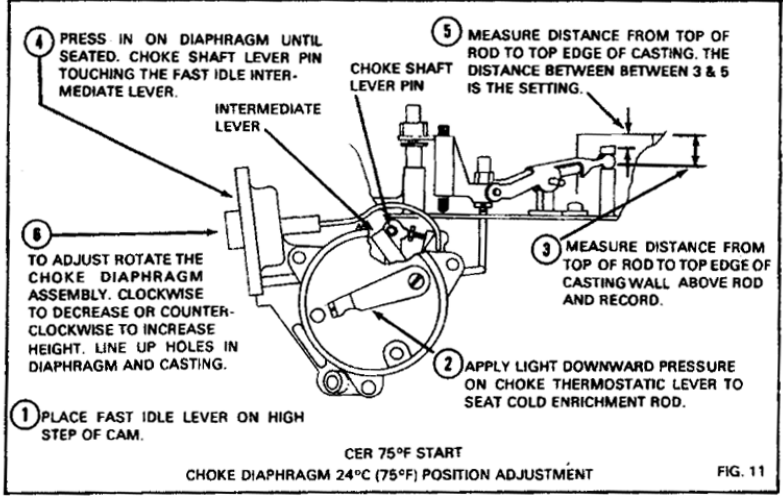
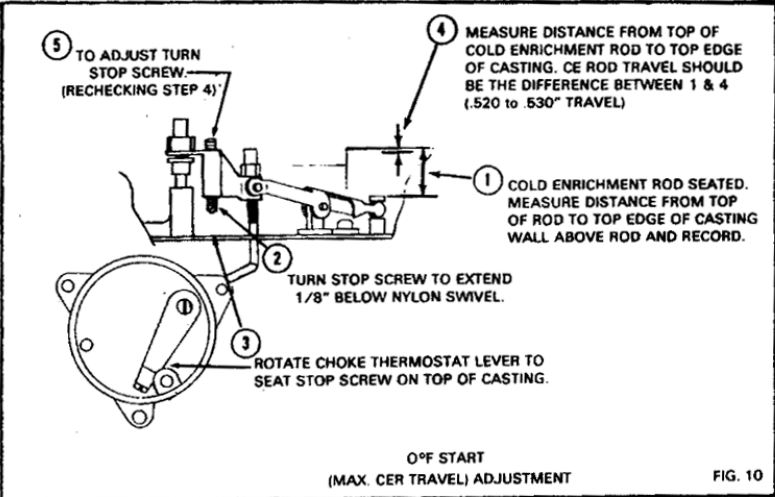
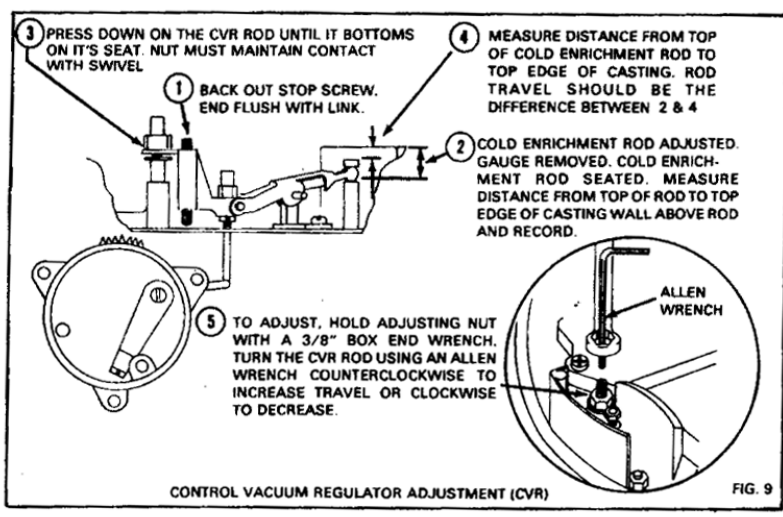
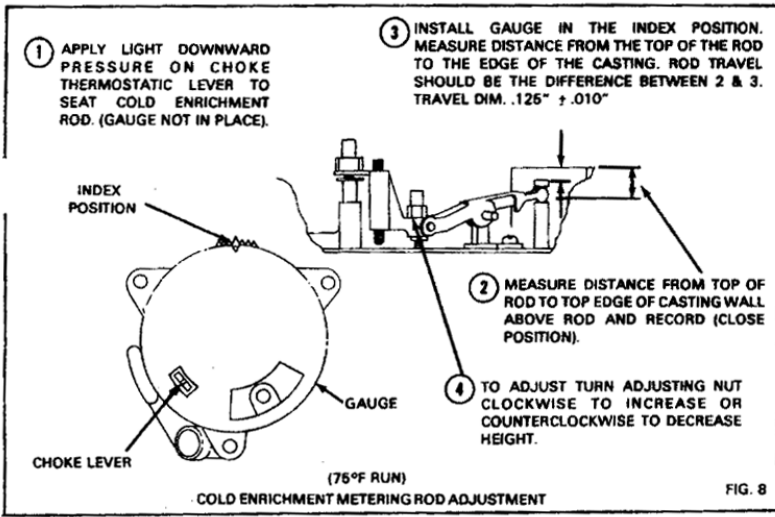
- 1 PLACE FAST IDLE LEVER ON SPECIFIED STEP OF CAM AGAINST SHOULDER OF NEXT HIGHER STEP. HOLD THROTTLE LIGHTLY CLOSED TO MAINTAIN CAM POSITION.
- 2 ROTATE CHOKE THERMOSTATIC LEVER CLOCKWISE UNTIL CHOKE SHAFT LEVER CONTACTS THE ADJUSTING SCREW.
- 3 MEASURE DISTANCE FROM TOP OF ROD TO TOP EDGE OF CASTING.
- 4 ROTATE CHOKE THERMOSTATIC LEVER COUNTERCLOCKWISE TO SEAT C.E.R. MEASURE AGAIN AS IN STEP 3. DIFFERENCE IN LENGTH IS THE SETTING. SEE DATA TABLE.
- 5 TO ADJUST TURN FAST IDLE CAM ADJUSTING SCREW.

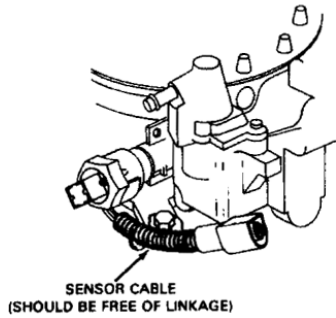
FAST IDLE LEVER



7200
FAST IDLE CAM SET ADJUSTMENT

FIG. 7



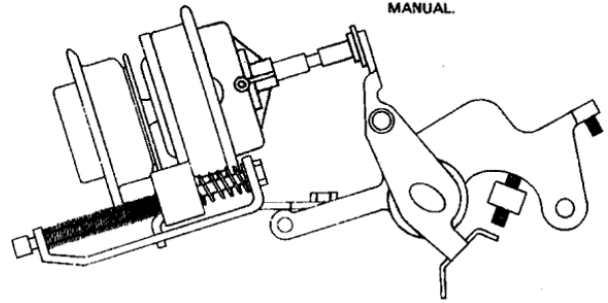


SENSOR CABLE
(SHOULD BE FREE OF LINKAGE)

PROPER SENSOR CABLE MOUNTING

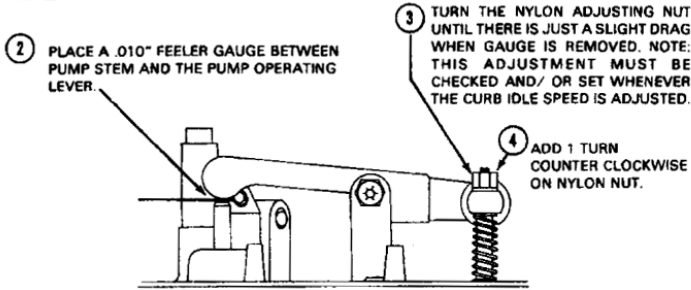
FIG. 16

FOLLOW IDLE ADJUSTMENT SPECIFICATIONS AND PROCEDURE FOUND ON ENGINE DECAL AND IN THE SERVICE MANUAL.



CURB IDLE ADJUSTMENT

FIG. 17



2 PLACE A .010" FEELER GAUGE BETWEEN PUMP STEM AND THE PUMP OPERATING LEVER.

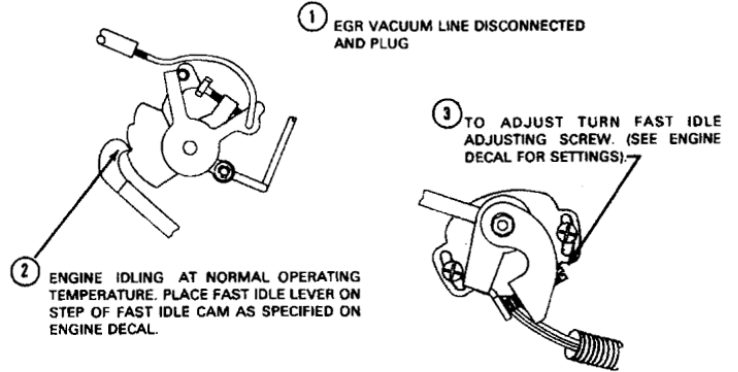
3 TURN THE NYLON ADJUSTING NUT UNTIL THERE IS JUST A SLIGHT DRAG WHEN GAUGE IS REMOVED. NOTE: THIS ADJUSTMENT MUST BE CHECKED AND/OR SET WHENEVER THE CURB IDLE SPEED IS ADJUSTED.

4 ADD 1 TURN COUNTER CLOCKWISE ON NYLON NUT.

1 CURB IDLE SPEED SET TO SPECIFICATIONS. (SEE ENGINE DECAL).

PUMP STEM CLEARANCE

FIG. 18



1 EGR VACUUM LINE DISCONNECTED AND PLUG

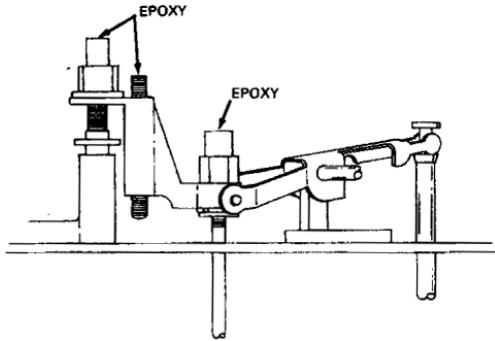
2 ENGINE IDLING AT NORMAL OPERATING TEMPERATURE. PLACE FAST IDLE LEVER ON STEP OF FAST IDLE CAM AS SPECIFIED ON ENGINE DECAL.

3 TO ADJUST TURN FAST IDLE ADJUSTING SCREW. (SEE ENGINE DECAL FOR SETTINGS).

FAST IDLE SPEED ADJUSTMENT

FIG. 19

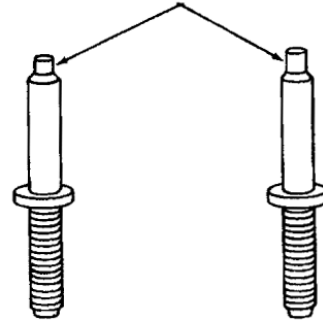
AFTER BENCH ADJUSTMENTS HAVE BEEN COMPLETED, TAMPER PROOF C.V. AND C.E. ADJUSTING NUTS AND SCREW WITH EPOXY.



C.V. ROD AND C.E. ROD TAMPER PROOFING

FIG. 20

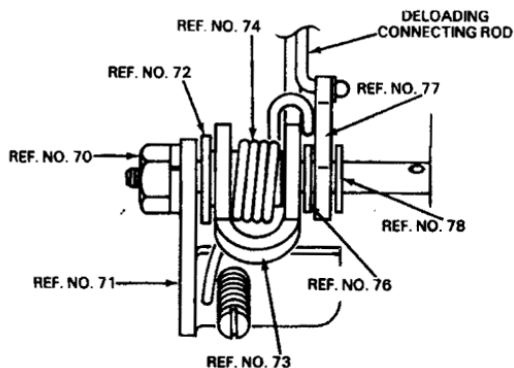
CHECK THIS END FOR CORRECT ROD.



REPLACE (CVR) CONTROL VACUUM ROD WITH ROD WHICH HAS THE SAME TIP.

FIG. 21

USE WITH INSTRUCTION SHEET 50-828-1 EXPLODED VIEW



TOP VIEW

DELOADING, FAST IDLE CAM LEVER ASSEMBLY.

FIG. 22

NOTICE

THE INFORMATION AND SPECIFICATIONS CONTAINED HEREIN ARE BASED ON LATEST PRODUCT INFORMATION AVAILABLE AT THE TIME OF PUBLICATION. THE RIGHT IS RESERVED TO MAKE CHANGES AT ANY TIME WITHOUT NOTICE.

PLEASE REFER TO THE ENGINE DECAL, SERVICE SPECIFICATIONS AND TECHNICAL BULLETINS FOR REVISIONS TO THIS INFORMATION.