

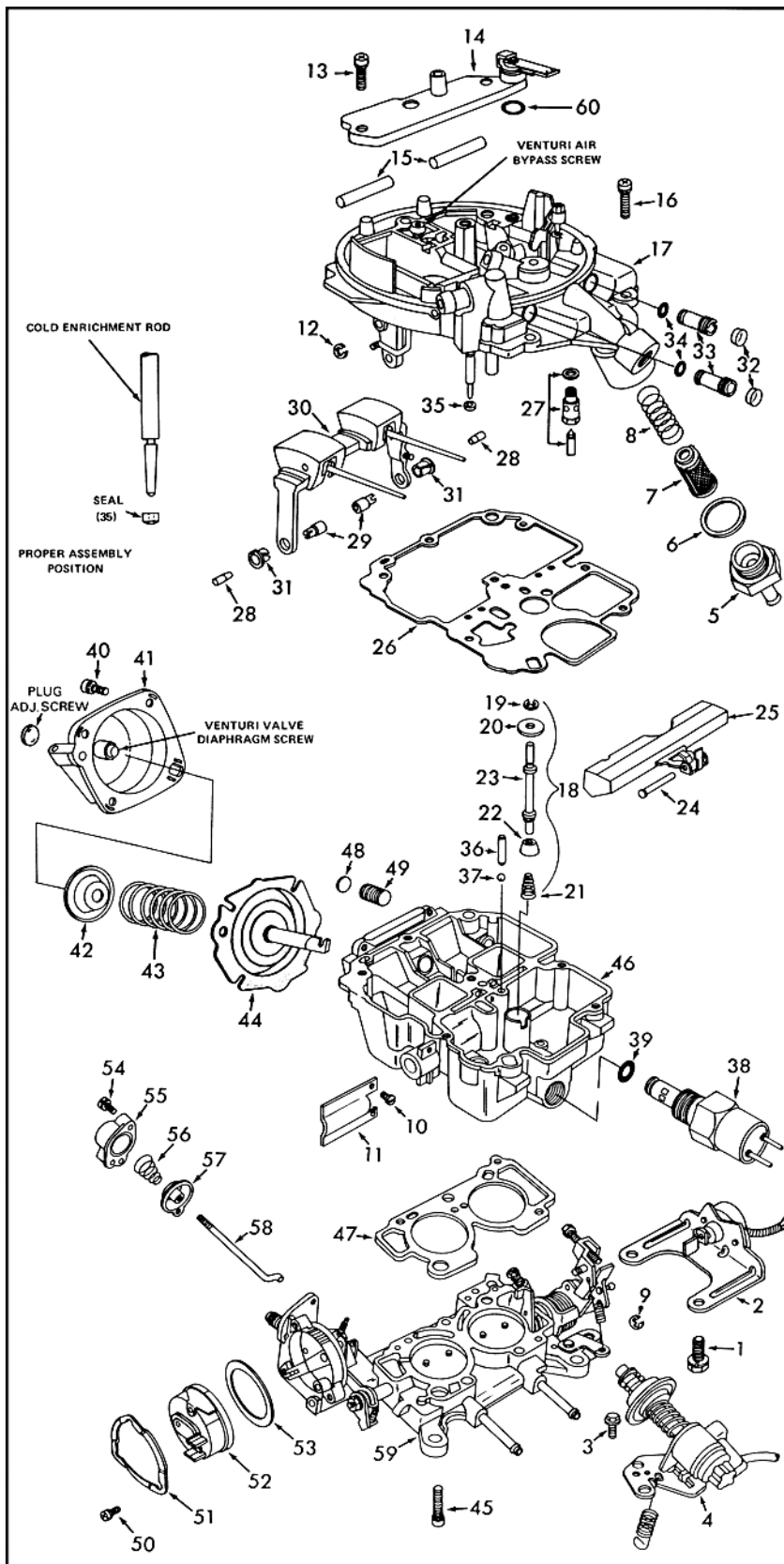
INSTRUCTION SHEET

OFF VEHICLE CARBURETOR SERVICE

MOTORCRAFT-MODEL 2700VV

08050-548-1

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.

SPECIAL INSTRUCTIONS

CAUTION: ALWAYS BLOCK THE VENTURI VALVES WIDE OPEN WHEN WORKING ON MAIN METERING JETS. ITEM (33). DO NOT DISTURB VENTURI AIR BYPASS OR VENTURI VALVE DIAPHRAGM ADJUSTING SCREWS DURING DISASSEMBLY.

WHEN TPS IS USED, REMOVE THROTTLE POSITION SENSOR AND BRACKET AS AN ASSEMBLY. DO NOT LOOSEN SENSOR MOUNTING/ADJUSTING SCREWS. ITEM (2).

PIVOT PLUGS (28) - SUPPORT BOWL COVER HINGE BRACKET (SMALL SOCKET ETC.) THEN USING A SMALL PUNCH, LIGHTLY TAP PIVOT PLUG FROM PIVOT PIN. REMOVE VENTURI VALVE AND METERING ROD ASSEMBLY (30) BY SLIDING BACKWARD.

CUP PLUGS (32) - CAREFULLY PUNCH OR DRILL HOLE IN CENTER OF PLUG AND USING AN EASY OUT TYPE PULLER TAP PLUG OUT OF BOWL COVER.

MAIN JETS (33) - BEFORE REMOVING, USE A JET WRENCH OR PROPER FITTED SCREWDRIVER TO CAREFULLY TURN JETS IN CLOCKWISE COUNTING THE 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 ASSEMBLY.

CRANKING FUEL CONTROL VALVE - LOCATED IN BOTTOM OF FUEL BOWL. THIS VALVE IS NOT REMOVED UNLESS COMPLETE REPLACEMENT OF VALVE IS MADE.

WELCH PLUG (48) - PUNCH OR DRILL HOLE IN CENTER OF PLUG, USING AN EASY OUT TYPE PULLER, TAP PLUG FROM SEAT.

NOMENCLATURE

REF. NO.	REF. NO.
1. SCREW (2) - THROTTLE POSITION SENSOR	32. CUP PLUG (2) - MAIN JET
2. THROTTLE POSITION SENSOR ASSEMBLY (SOME MODELS)	33. JET (2) - MAIN METERING
3. SCREW - THROTTLE RETURN CONTROL	34. O-RING (2) - MAIN JET
4. THROTTLE RETURN CONTROL & KICK DOWN LEVER RETURN SPRING	35. SEAL - COLD ENRICHMENT ROD
5. FITTING - FUEL INLET	36. WEIGHT - PUMP CHECK BALL
6. GASKET - FITTING	37. BALL - PUMP CHECK
7. FILTER - FUEL	38. SOLENOID - CRANKING ENRICHMENT
8. SPRING - FILTER	39. O-RING - SOLENOID
9. E CLIP - PUMP ROD	40. SCREW & LKWSHR. (4) - DIAPH. COVER
10. SCREW - CHOKE HEAT SHIELD	41. COVER - DIAPHRAGM
11. HEAT SHIELD - CHOKE	42. SPRING GUIDE
12. E CLIP - CHOKE CONTROL ROD	43. SPRING - DIAPHRAGM
13. SCREW & LKWSHR. (2) - COVER PLATE	44. DIAPHRAGM - VENTURI VALVE
14. COVER PLATE - VENTURI VALVE	45. SCREW & LKWSHR. (5) - THROTTLE BODY
15. ROLLER BEARING (2)	46. BOWL ASSEMBLY
16. SCREW & LKWSHR. (7) - BOWL COVER	47. GASKET - THROTTLE BODY
17. BOWL COVER ASSEMBLY	48. PLUG - WIDE OPEN STOP SCREW
18. PUMP PLUNGER ASSEMBLY	49. SCREW - WIDE OPEN STOP
19. E CLIP - INTERNAL VENT VALVE	50. SCREW (3) - RETAINER
20. VALVE - INTERNAL VENT	51. RETAINER - CHOKE THERMOSTATIC HOUSING
21. SPRING - PUMP RETURN	52. CHOKE THERMOSTATIC HOUSING
22. CUP - PUMP	53. GASKET - THERMOSTATIC HOUSING
23. STEM - PUMP	54. SCREW & LKWSHR. (2) - DIAPH. COVER
24. PIN - FLOAT HINGE	55. COVER - DIAPHRAGM
25. FLOAT & LEVER ASSEMBLY	56. SPRING - DIAPHRAGM
26. GASKET - BOWL COVER	57. DIAPHRAGM ASSEMBLY - HIGH CAM SPEED POSITIONER
27. NEEDLE, SEAT & GASKET ASSY.	58. ROD - DIAPHRAGM ASSEMBLY
28. PIVOT PLUG (2)	59. THROTTLE BODY ASSEMBLY
29. PIVOT PIN (2)	60. O-RING - HOT IDLE COMPENSATOR
30. VENTURI VALVE AND METERING ROD ASSEMBLY	
31. BUSHING (2) - VENTURI VALVE	

*DO NOT INSTALL THESE PARTS UNTIL AFTER BENCH 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 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 PARTS CONTAINING NYLON OR RUBBER MATERIALS SUCH AS (2), (4), (20), (25), (38), (44), (52), (57).

REASSEMBLY

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

ADJUSTMENTS

IMPORTANT! THE COLD ENRICHMENT METERING ROD ADJUSTMENT (FIG.7) MUST BE DONE PRIOR TO ANY OTHER CHOKE SYSTEM ADJUSTMENTS.

ADJUSTMENTS

SPECIAL INSTRUCTIONS

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

O-RINGS-WHEN INSTALLING LIGHTLY LUBRICATE WITH LIGHT OIL.

MAIN JETS (33)- 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 (32)- USING 3/8" DRIFT PUNCH, INSERT PLUG IN HOLE & TAP LIGHTLY UNTIL PLUG SEATS IN CASTING.

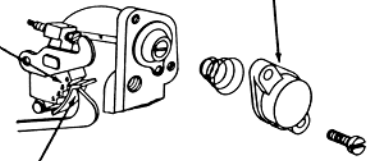
PIVOT PLUG (28)- TAPERED PLUGS CAN BE CAREFULLY PRESSED INTO THE PIVOT PIN USING A PLIERS WITH PARALLEL JAWS IN THE OPEN POSITION.

FLOAT HINGE PIN (24)- INSTALL PIN SO FLAT HEAD OF PIN IS IN THE RECESSED LEG OF FLOAT HANGER.

BOWL COVER ASSY. (17)- 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.

- ③ HOLD THROTTLE FIRMLY CLOSED TO MAINTAIN CAM POSITION
- ④ TURN DIAPHRAGM IN UNTIL METAL WASHER LIGHTLY BOTTOMS ON CASTING. THEN ROTATE COUNTERCLOCKWISE 1/2 TO 1 1/2 TURNS UNTIL VACUUM PORT AND DIAPHRAGM HOLE LINE UP.

- ① PLACE THE HIGH CAM SPEED POSITIONER ON SPECIFIED STEP OF CAM AND AGAINST SHOULDER OF NEXT STEP.
- ⑤ INSTALL DIAPHRAGM COVER



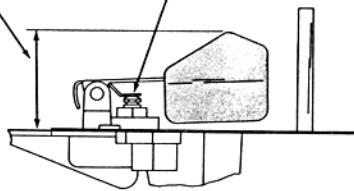
- ② PLACE FAST IDLE LEVER IN STEP OF H.C.S.P.

NOTE: SMALL DIAMETER OF SPRING SHOULD BE SEATED OVER RAISED PORTION OF DIAPHRAGM WASHER.

HIGH CAM SPEED POSITIONER ADJUSTMENT

FIG. 1

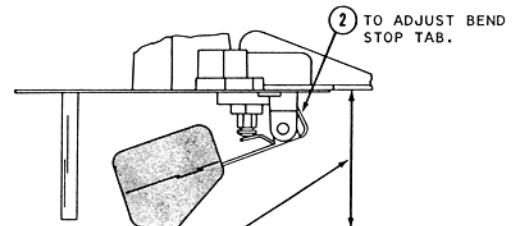
- ① (BOWL COVER GASKET REMOVED.) BOWL COVER INVERTED MEASURE DISTANCE FROM CASTING SURFACE TO BOTTOM OF FLOAT. CHECK FLOAT PONTOON AT EACH END.
- ② TO ADJUST BEND TAB.



CAUTION: DO NOT EXERT PRESSURE ON RESILIENT NEEDLE VALVE.

DRY FLOAT LEVEL ADJUSTMENT

FIG. 2



- ① BOWL COVER HELD IN THE UPRIGHT POSITION, MEASURE DISTANCE FROM CASTING SURFACE (NOT GASKET) TO BOTTOM OF FLOAT.
- ② TO ADJUST BEND STOP TAB.

FLOAT DROP ADJUSTMENT

FIG. 3

- ③ MEASURE DISTANCE BETWEEN VENTURI VALVE AND AIR HORN WALL.
- ② APPLY LIGHT CLOSING PRESSURE ON VENTURI VALVE. (TO MAKE SURE LIMITER LEVER IS AGAINST STOP PIN.)
- ① HOLD THROTTLE PLATES IN WIDE OPEN POSITION.
- ④ REMOVE EXPANSION PLUG (48) AND SET SCREW (49)
- ⑤ TO ADJUST, MANUALLY MOVE THE VENTURI TO WIDE OPEN POSITION, 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.
- ⑥ REPEAT STEPS (1),(2),(3).

VENTURI VALVE LIMITER ADJUSTMENT.

FIG. 4

- ① HOLD VENTURI VALVE IN 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

- ④ TO ADJUST TURN FAST IDLE CAM ADJUSTING SCREW.
- ② INSTALL GAUGE AND ROTATE CLOCKWISE UNTIL LEVER CONTACTS THE ADJUSTING SCREW.
- ③ NOTCH ON GAUGE SHOULD LINE UP WITH SPECIFIED MARK ON CHOKE CASTING.
- ① PRESS IN ON HIGH CAM SPEED POSITIONER ROD TO MOVE DIAPHRAGM REARWARD. THEN PLACE FAST IDLE LEVER ON SPECIFIED STEP OF CAM AND AGAINST SHOULDER OF NEXT STEP. HOLD THROTTLE LIGHTLY CLOSED TO MAINTAIN CAM POSITION.

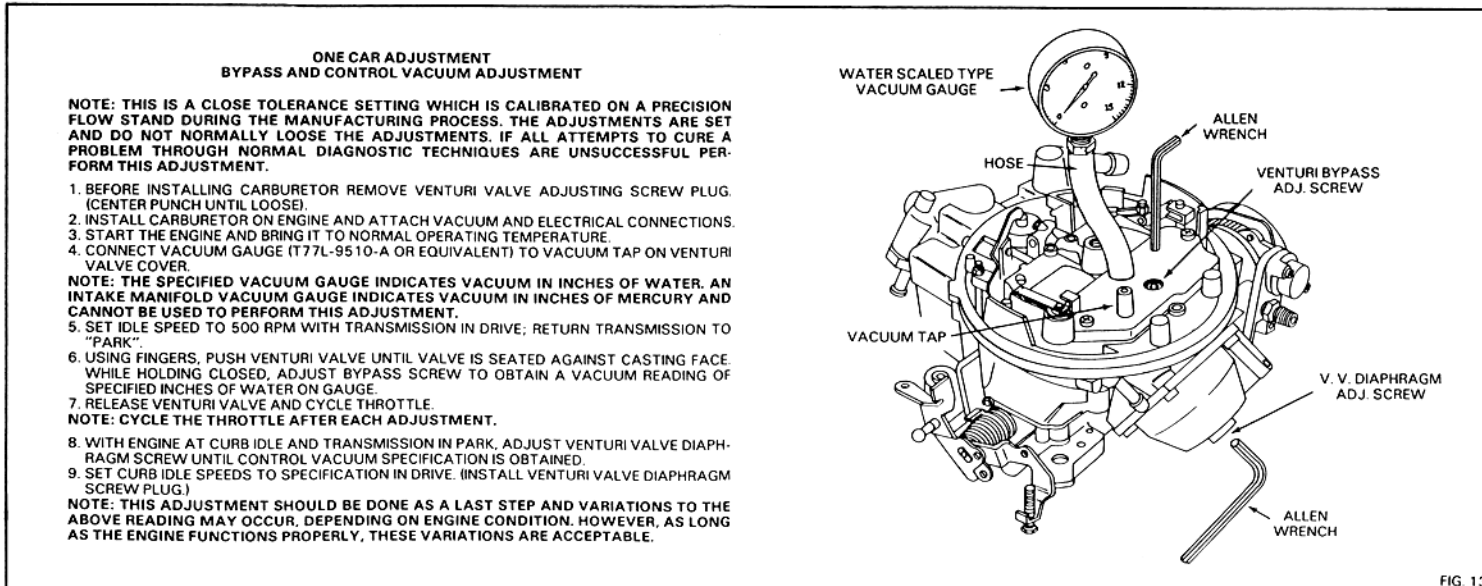
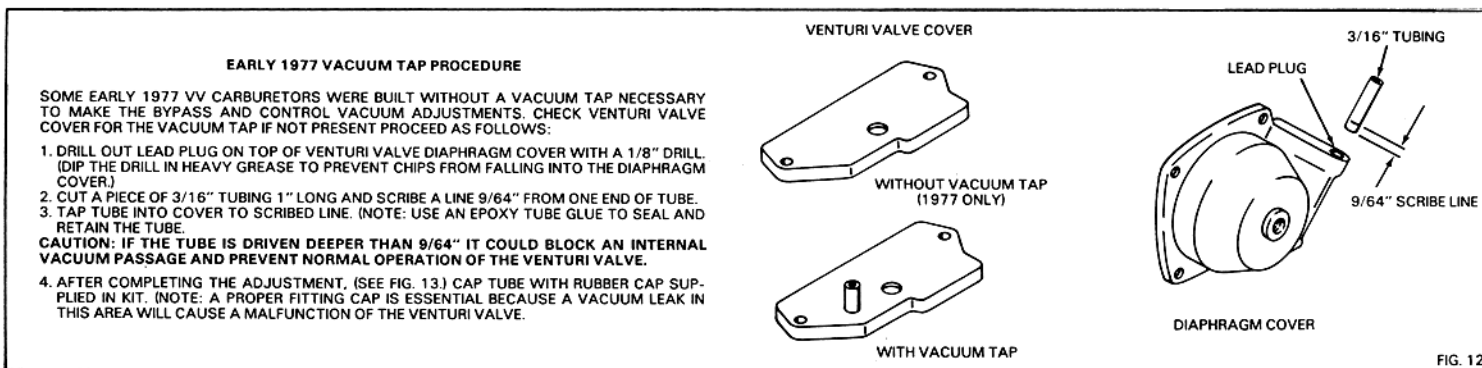
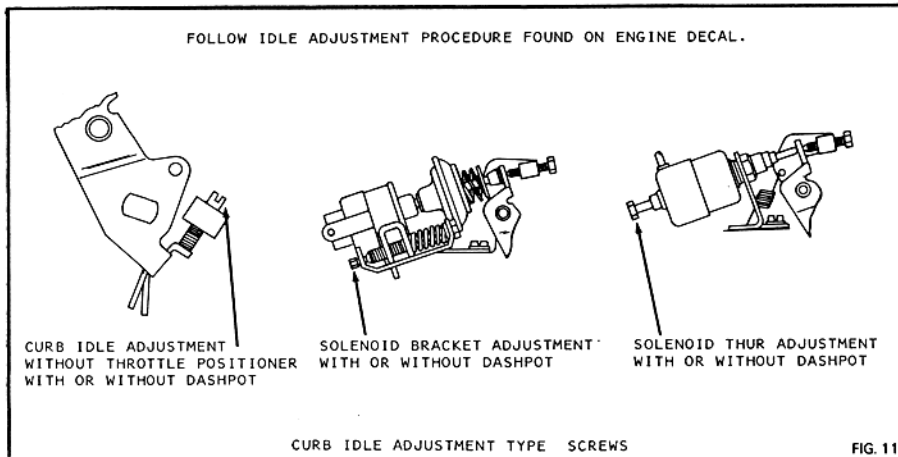
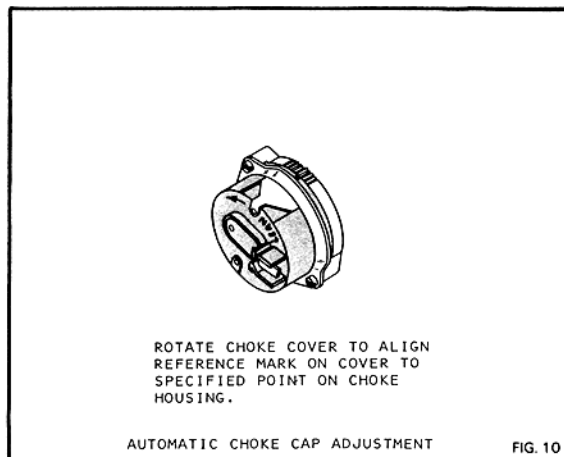
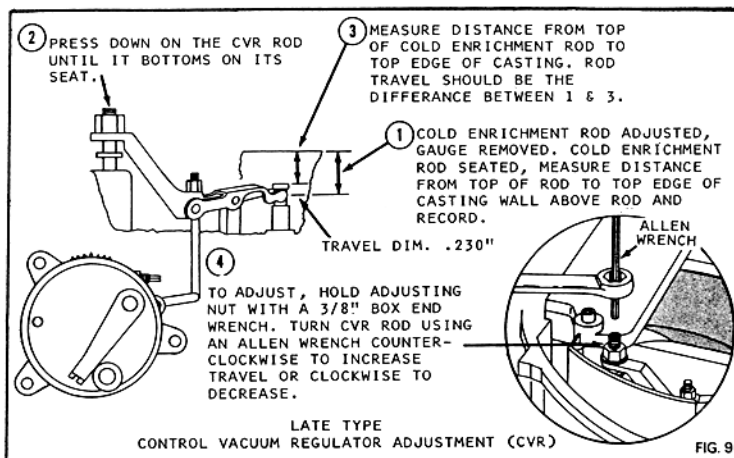
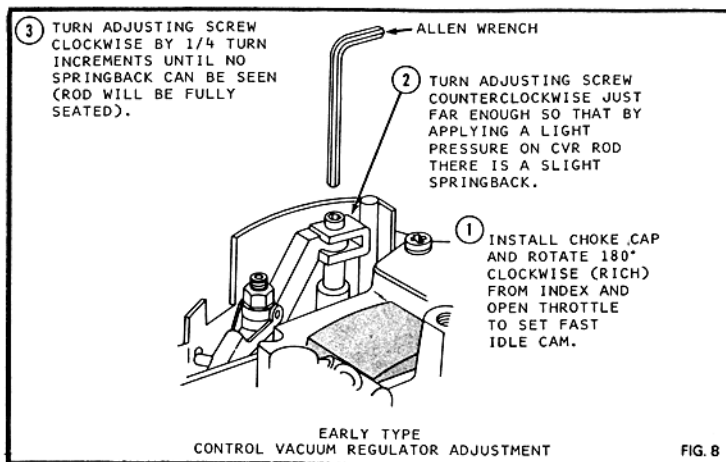
FAST IDLE CAM SET ADJUSTMENT

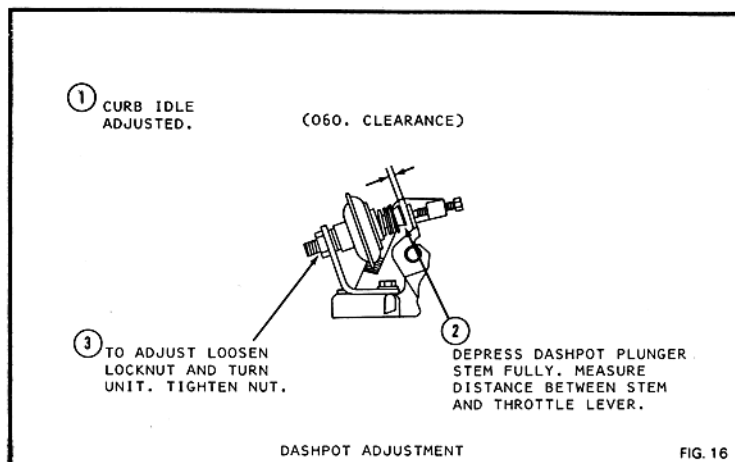
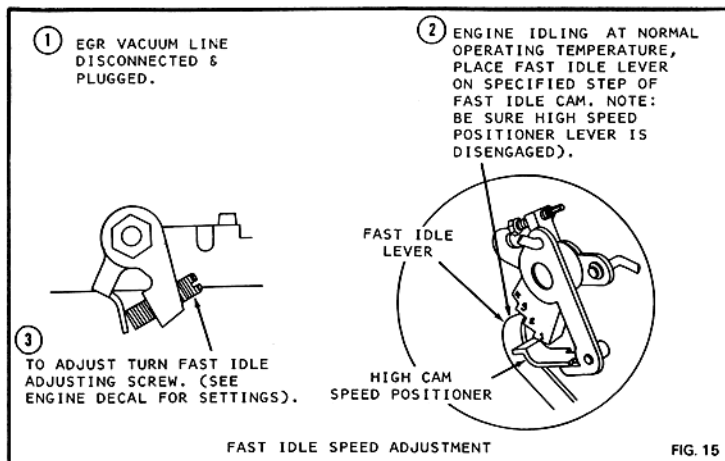
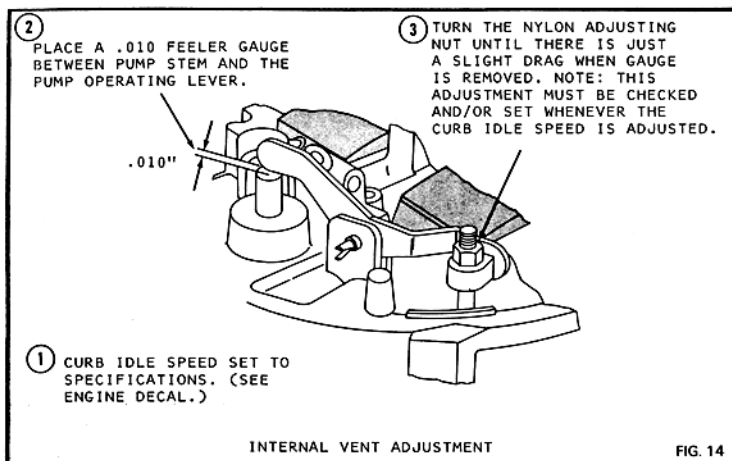
FIG. 6

- ① APPLY LIGHT DOWNWARD PRESSURE ON CHOKE THERMOSTATIC LEVER TO SEAT COLD ENRICHMENT ROD. (GAUGE NOT IN PLACE).
- ③ INSTALL GAUGE IN THE INDEX POSITION. MEASURE DISTANCE FROM TOP OF ROD TO TOP EDGE OF CASTING. ROD TRAVEL SHOULD BE THE DIFFERENCE BETWEEN 2 & 3. TRAVEL DIM. .125"±.005"
- ② MEASURE DISTANCE FROM TOP OF ROD TO TOP EDGE OF CASTING WALL ABOVE ROD AND RECORD. (CLOSE POSITION).
- ④ TO ADJUST TURN ADJUSTING NUT CLOCKWISE TO INCREASE OR COUNTERCLOCKWISE TO DECREASE HEIGHT.

COLD ENRICHMENT METERING ROD ADJUSTMENT

FIG. 7





ADJUSTMENT DATA TABLE

1977-78 CARBURETOR NUMBERS	HIGH CAM SPEED	DRY FLOAT LEVEL	FLOAT DROP	VENTURI VALVE LIMITER	VENTURI VALVE WIDE OPEN	FAST IDLE CAM SET		COLD ENRICHMENT ROD	AUTO CHOKE	BYPASS VACUUM IN. H ₂ O	CONTROL VACUUM IN. H ₂ O
						STEP	GAUGE				
D72E-AC	STEP-2	1 3/64"	1 15/32"	13/32"	3/4"	2 ND.	4 NR.	.125"	INDEX	4.9-5.1	4.6-4.8
D72E-BD	STEP-2	1 3/64"	1 15/32"	13/32"	3/4"	2 ND.	4 NR.	.125"	INDEX	4.9-5.1	4.6-4.8
D72E-BE	STEP-2	1 3/64"	1 15/32"	13/32"	3/4"	2 ND.	4 NR.	.125"	INDEX	4.9-5.1	4.6-4.8
D72E-GD	STEP-3	1 3/64"	1 15/32"	61/64"	1"	3 ND.	1 NR.	.125"	INDEX	4.9-5.1	4.6-4.8
D72E-GE	STEP-3	1 3/64"	1 15/32"	61/64"	1"	3 ND.	1 NR.	.125"	INDEX	4.9-5.1	4.6-4.8
777E-MA	STEP-2	1 3/64"	1 15/32"	13/32"	3/4"	2 ND.	4 NR.	.125"	INDEX	4.9-5.1	4.6-4.8
777E-NA	STEP-2	1 3/64"	1 15/32"	13/32"	3/4"	2 ND.	4 NR.	.125"	INDEX	4.9-5.1	4.6-4.8
D84E-DB	STEP-3	1 3/64"	1 15/32"	61/64"	1"	3 ND.	1 NR.	.125"	INDEX	4.9-5.6	4.6-5.1
D88E-EB	STEP-3	1 3/64"	1 15/32"	61/64"	1"	3 ND.	1 NR.	.125"	INDEX	4.9-5.6	4.6-5.1
D88E-HB	STEP-3	1 3/64"	1 15/32"	61/64"	1"	3 ND.	1 NR.	.125"	INDEX	4.9-5.6	4.6-5.1
D84E-KA	STEP-3	1 3/64"	1 15/32"	61/64"	1"	3 ND.	1 NR.	.125"	INDEX	4.9-5.6	4.6-5.1
D88E-VB	STEP-2	1 3/64"	1 15/32"	13/32"	3/4"	2 ND.	4 NR.	.125"	INDEX	4.9-5.6	4.6-5.1
D88E-YB	STEP-2	1 3/64"	1 15/32"	13/32"	3/4"	2 ND.	3 NR.	.125"	INDEX	4.9-5.6	4.6-5.1
D8PE-CYA	STEP-3	1 3/64"	1 15/32"	61/64"	1"	3 ND.	1 NR.	.125"	INDEX	4.9-5.6	4.6-5.1
D8PE-CZA	STEP-2	1 3/64"	1 15/32"	13/32"	3/4"	3 ND.	3 NR.	.125"	INDEX	4.9-5.6	4.6-5.1
D8PE-CZE	STEP-2	1 3/64"	1 15/32"	13/32"	3/4"	2 ND.	3 NR.	.125"	INDEX	4.9-5.6	4.6-5.1
D8PE-DAA	STEP-3	1 3/64"	1 15/32"	61/64"	1"	3 ND.	1 NR.	.125"	INDEX	4.9-5.6	4.6-5.1
D8PE-DBA	STEP-2	1 3/64"	1 15/32"	13/32"	3/4"	2 ND.	4 NR.	.125"	INDEX	4.9-5.6	4.6-5.1
D8PE-DCA	STEP-2	1 3/64"	1 15/32"	13/32"	3/4"	2 ND.	4 NR.	.125"	INDEX	4.9-5.6	4.6-5.1
D8PE-DLA	STEP-2	1 3/64"	1 15/32"	13/32"	3/4"	2 ND.	4 NR.	.125"	INDEX	4.9-5.6	4.6-5.1