

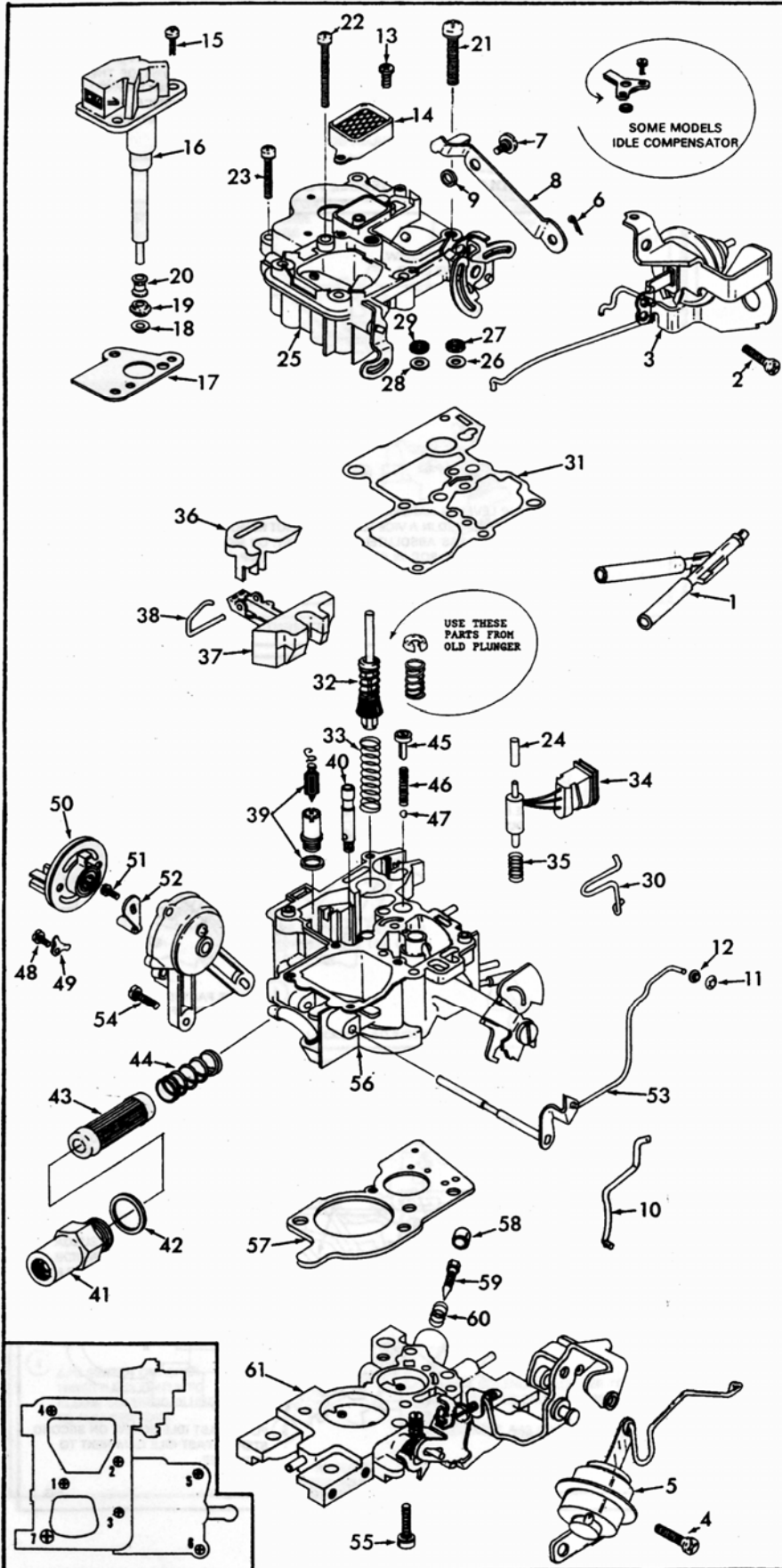
INSTRUCTION SHEET

OFF VEHICLE CARBURETOR SERVICE

ROCHESTER MODEL—E2SE

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. CAUTION: MOST SCREWS HAVE SOME FORM OF LOCK TIGHT ON THEM. LINKAGE CONNECTED TO VACUUM BREAK UNITS CAN BE UNHOOKED AT ONE END ONLY. BE CAREFUL NOT TO DAMAGE OR NICK END OF SOLENOID PLUNGER WHEN REMOVING SEAL RETAINER AND RUBBER SEAL. UNHOOK FAST IDLE ROD (30) WHEN REMOVING BOWL COVER. (FAST IDLE CAM AND SCREW ARE NOT REMOVABLE.) PULL PLASTIC RETAINER (45) OUT. DO NOT PRY OUT, THIS WILL DAMAGE THE SEALING BEAD ON THE BOWL CASTING. CHOKE COVER HELD ON BY POP RIVETS SEE FIG. 1 FOR REMOVAL PROCEDURE. THE IDLE MIXTURE NEEDLE (59) IS SEALED WITH A HARDENED STEEL PLUG. IF NECESSARY, TO REMOVE IDLE MIXTURE NEEDLE ON A MAJOR OVERHAUL OR IDLE ADJUSTMENT FOLLOW PROCEDURE IN FIG. 2 TO REMOVE STEEL PLUG.

NOMENCLATURE

REF. NO.	REF. NO.
1. HOSE - VACUUM BREAK	31. GASKET - BOWL COVER
2. SCREW (2) - VAC. BREAK BRACKET	32. PUMP ASSY.
3. PRI. VAC. BREAK, LINKAGE & BRACKET ASSY.	33. SPRING - PUMP RETURN
4. SCREW (2) - VAC. BREAK BRACKET	34. THROTTLE POSITION SENSOR
5. SEC. VAC. BREAK, LINKAGE & BRACKET ASSY.	35. SPRING - THROTTLE POSITION SENSOR
6. RETAINER - PUMP ROD	36. INSERT - FLOAT BOWL
7. SCREW - PUMP LEVER	37. FLOAT ASSY.
8. LEVER - PUMP	38. PIN - FLOAT HINGE
9. WASHER - PUMP LEVER SCREW	39. NEEDLE & SEAT ASSY.
10. ROD - PUMP	40. JET - PRIMARY METERING
11. RETAINER (UPPER) - CHOKE ROD	41. FILTER NUT - FUEL INLET
12. BUSHING - CHOKE ROD	42. GASKET - FILTER NUT
13. SCREW (2) - VENT STACK	43. FILTER - FUEL INLET
14. VENT STACK	44. SPRING - FILTER
15. SCREW & LKWSHR. (3) - SOLENOID	45. GUIDE - PUMP DISC SPRING
16. SOLENOID - MIXTURE CONTROL	46. SPRING - PUMP DISC BALL
17. GASKET - SOLENOID	47. BALL - PUMP DISC
18. RETAINER - SEAL	48. SCREW (3) - CHOKE RETAINER (REPLACEMENT PART)
19. SEAL - SOLENOID	49. RETAINER (3) - CHOKE COVER
20. ADAPTER - SOLENOID SEAL	50. ELECTRIC CHOKE COVER ASSY.
21. SCREW & LKWSHR. (LARGE) - BOWL COVER	51. SCREW - CHOKE LEVER
22. SCREW & LKWSHR (3) - BOWL COVER	52. LEVER - CHOKE
23. SCREW & LKWSHR. (3) - BOWL COVER	53. CHOKE SHAFT & ROD ASSY.
24. PLUNGER - THROTTLE POSITION SENSOR	54. SCREW & LKWSHR. (2) - CHOKE HOUSING
25. BOWL COVER ASSY.	55. SCREW & LKWSHR. (4) - THROTTLE BODY
26. RETAINER - PLUNGER SEAL	56. BOWL ASSY.
27. SEAL - PLUNGER	57. GASKET - THROTTLE BODY
28. RETAINER - PUMP SEAL	58. PLUG - IDLE NEEDLE SEAL (NOT REPL.)
29. SEAL - PUMP STEM	59. NEEDLE - IDLE ADJUSTING
30. ROD - FAST IDLE CAM	60. SPRING - IDLE NEEDLE
	61. THROTTLE BODY ASSY.

CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. USE A COLD IMMERSION TYPE OF CARBURETOR CLEANING SOLVENT. MAKE CERTAIN THE THROTTLE BORES ARE FREE OF ALL CARBON DEPOSITS. RINSE OFF IN A 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 DIAPHRAGM UNITS, SOLENOIDS, FLOAT, ELECTRIC CHOKE, PLASTIC FILLER BLOCK, OR PARTS CONTAINING RUBBER IN CLEANING SOLVENTS. (PLASTIC BUSHINGS ON ROD ENDS WILL WITHSTAND NORMAL CLEANING IN CARBURETOR CLEANER.)

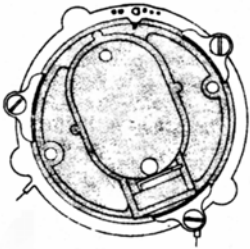
REASSEMBLY

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

SPECIAL INSTRUCTIONS

- IDLE ADJUSTING NEEDLE (59) - TURN NEEDLE IN UNTIL LIGHTLY SEATED. THEN BACK OUT 3 TURNS.
- FUEL FILTER (43) - BE SURE TO USE FILTER WITH BUILT IN ROLL OVER CHECK VALVE AND WITH CHECK VALVE FACING OUT. TIGHTEN FILTER NUT (41) TO 18 FT. LBS.
- NEEDLE & SEAT ASSY. (39) - WHEN INSTALLING FLOAT BE SURE TO HOOK NEEDLE PULL CLIP OVER EDGES OF FLAT ON FLOAT ARM FACING FLOAT PONTOON. CAUTION DO NOT HOOK PULL CLIP IN HOLES OF FLOAT ARM
- SEAL RETAINERS (28) (26) - LIGHTLY STAKE IN THREE PLACES.
- PLUNGER (24) & PUMP STEM (32) - APPLY A LIGHT COATING OF SILICONE GREASE OR LIGHT OIL TO EACH STEM FOR EASIER INSERTION THROUGH THE SEAL.
- BOWL COVER INSTALLATION - TIGHTEN BOWL COVER SCREWS IN SEQUENCE SHOWN. SOLENOID SEAL RETAINER 18. - INSTALL ADAPTER (20) SEAL (19) THEN USING A 3/16" SOCKET AND LIGHT HAMMER, CAREFULLY DRIVE RETAINER ON STEM. DRIVE RETAINER ON STEM ONLY FAR ENOUGH TO RETAIN RUBBER SEAL ON STEM LEAVING A SLIGHT CLEARANCE FOR SEAL EXPANSION. APPLY SILICONE GREASE OR LIGHT OIL TO SEAL PRIOR TO INSTALLING IN CARBURETOR.
- BUSHING (12), RETAINER (11) - INSTALL BUSHING WITH SMALL END OF BUSHING FACING RETAINING CLIP. RETAINING CLIP IS "DISHED". INSTALL CLIP ON ROD WITH OUTWARD BEND OF SELF LOCKING CLIP FACING END OF ROD. ROD TO BUSHING CLEARANCE SHOULD BE (.030").
- THE COMPUTER CONTROLLED CATALYTIC CONVERTER (C-4) SYSTEM IS A SOPHISTICATED SYSTEM. THE PROCEDURE FOR SETTING THE MIXTURE CONTROL SYSTEM MUST BE FOLLOWED EXACTLY. USE THE ENGINE DECAL AND CAR DIV. SERVICE MANUAL.

ADJUSTMENTS



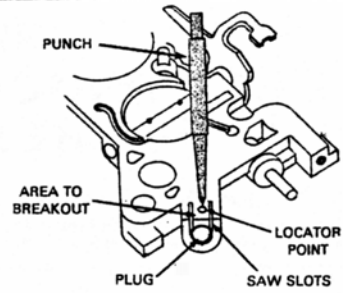
CAREFULLY ALIGN A #21 DRILL (.159) ON POP RIVET HEAD AND DRILL ENOUGH TO REMOVE RIVET HEAD. DRILL ALL 3 RIVET HEADS. USE A DRIFT PUNCH AND HAMMER, DRIVE THE REMAINDER OF RIVETS OUT OF THE CHOKE HOUSING. REMOVE CHOKE COMPONENTS. REPLACEMENT RETAINERS, SELF-TAPPING SCREWS OR POP RIVETS ARE FOUND IN REPAIR KIT.

BEFORE ASSEMBLING CHOKE, START SELF TAPPING SCREWS IN CHOKE HOUSING TO BE SURE SCREWS START EASILY AND ARE ALIGNED PROPERLY. CHOKE COVER INSTALLATION, ALIGN NOTCH IN COVER WITH RAISED BOSS CAST IN CHOKE HOUSING. TIGHTEN SCREWS EVENLY AND SECURELY. 1981 INSTALL RETAINERS AND NEW POP RIVETS TO SECURE CHOKE COVER.

CAUTION: BE SURE LOOP END OF COIL SPRING IS ON PIN OF COIL PICK UP LEVER.

REMOVING & REPLACING TAMPER RESISTANT CHOKE COVER

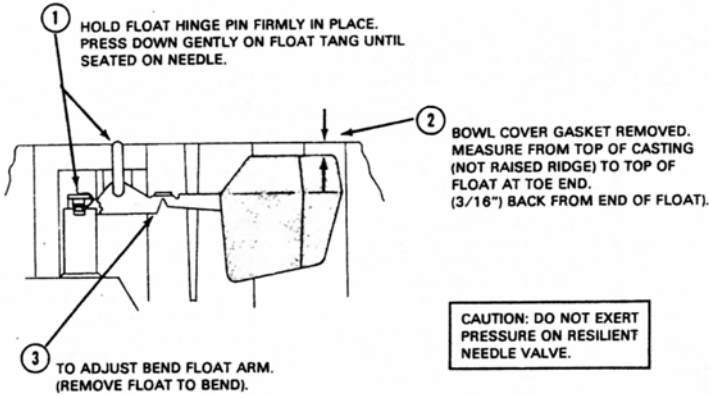
FIG. 1



SAW 2 SLOTS AS SHOWN (DO NOT EXTEND MORE THAN 1/8" BEYOND LOCATOR POINT). SUPPORT THROTTLE BODY, THEN PLACE A PUNCH IN THE LOCATOR POINT OF THE THROTTLE BODY. HOLDING PUNCH AT A 45° ANGLE, BREAKOUT THROTTLE BODY CASTING TO GAIN ACCESS TO THE HARDENED STEEL PLUG. HOLD A CENTER PUNCH VERTICAL DRIVE IT INTO THE STEEL PLUG (HARDENED PLUG WILL BREAK). REMOVE PIECES TO GAIN ACCESS TO IDLE MIXTURE NEEDLE.

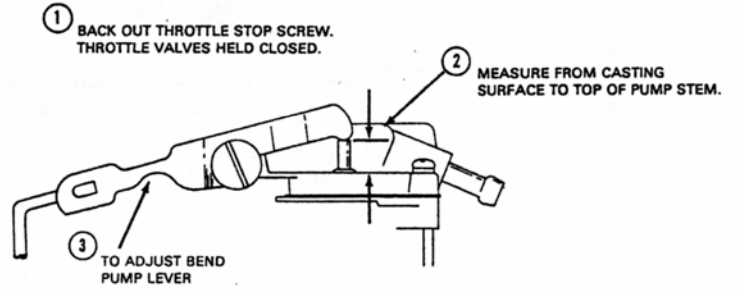
IDLE MIXTURE NEEDLE PLUG REMOVAL

FIG. 2



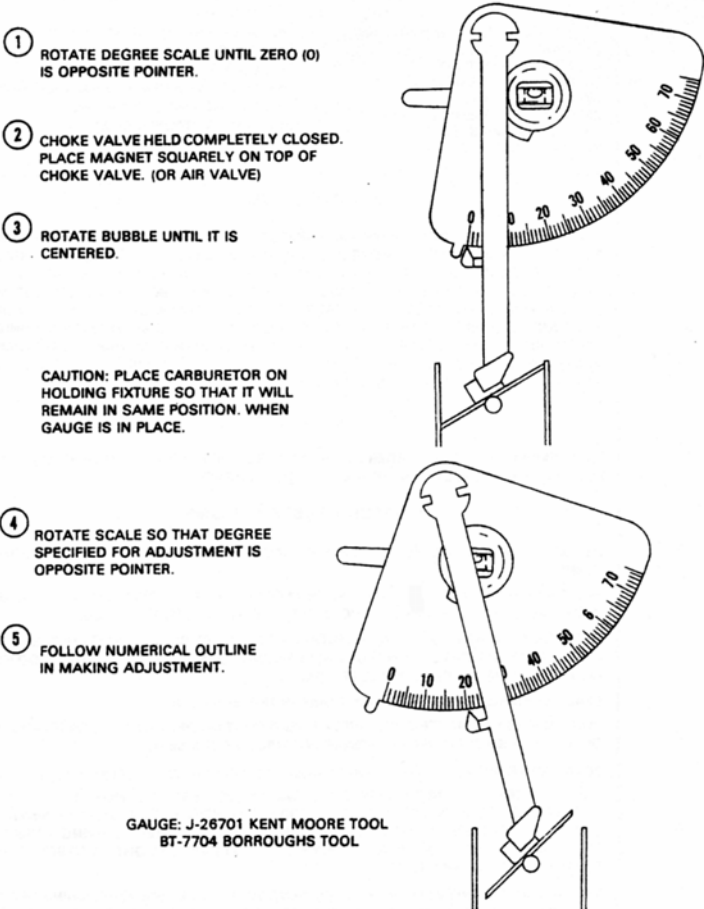
DRY FLOAT LEVEL ADJUSTMENT

FIG. 3



PUMP ROD ADJUSTMENT

FIG. 4

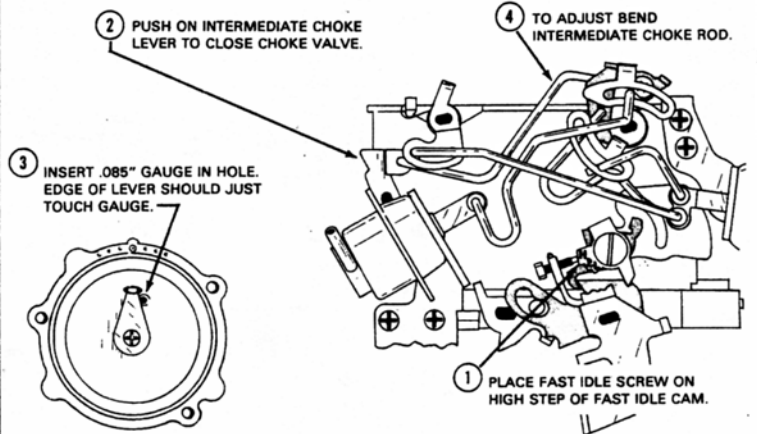


GAUGE: J-26701 KENT MOORE TOOL
BT-7704 BORRHOUGHS TOOL

ANGLE GAUGE BASIC ADJUSTMENT

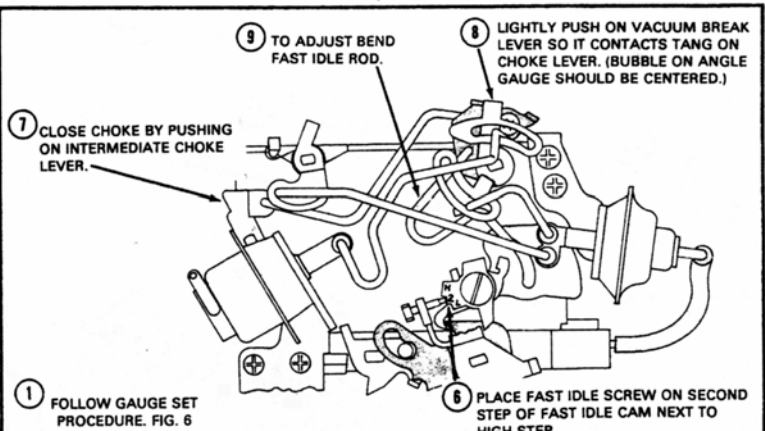
CONTINUE NUMERICAL OUTLINE IN EACH ADJUSTMENT USING DEGREE SETTING.

FIG. 6



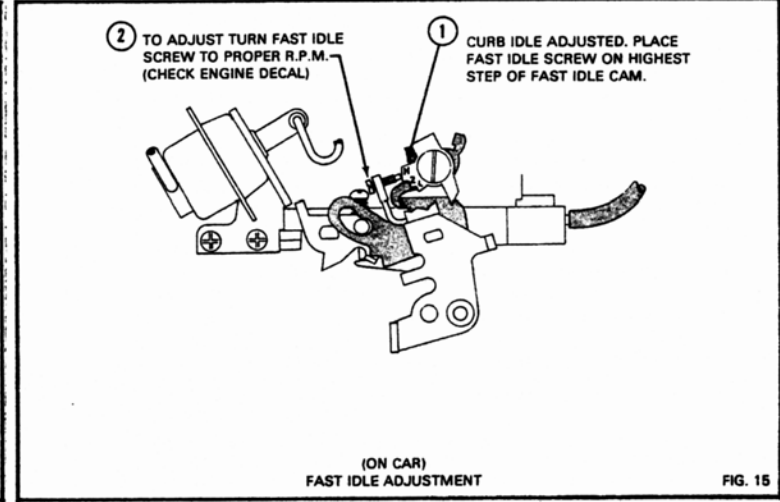
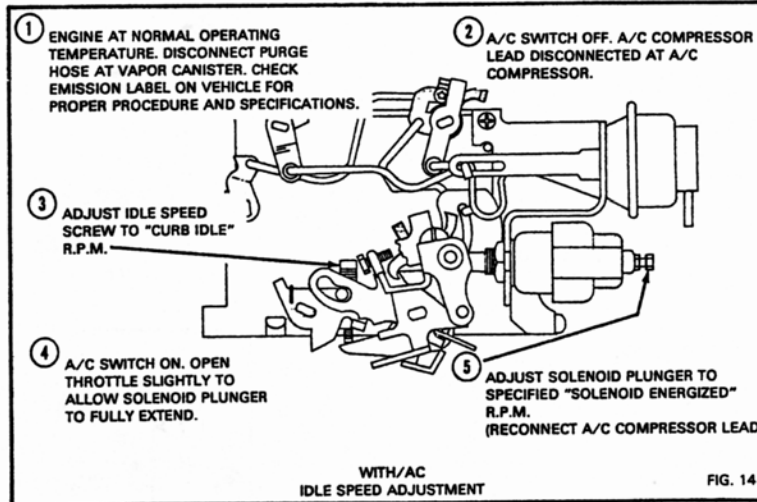
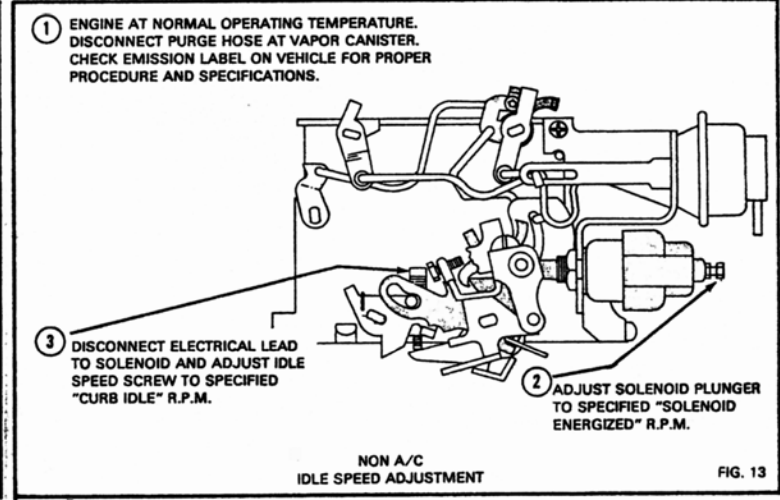
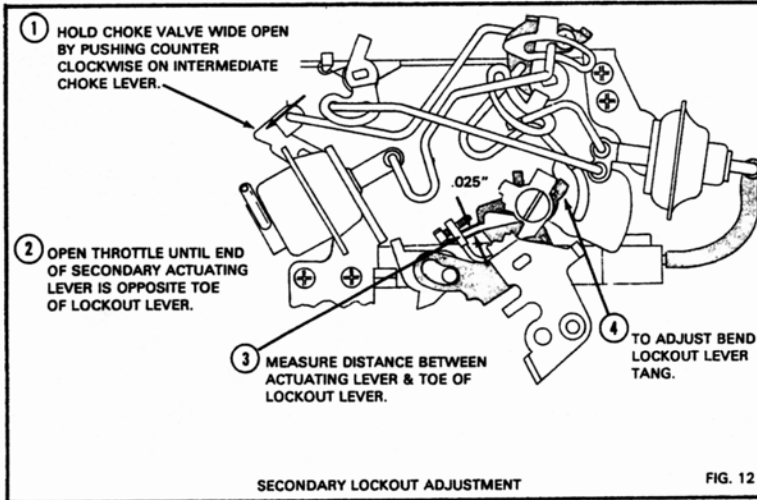
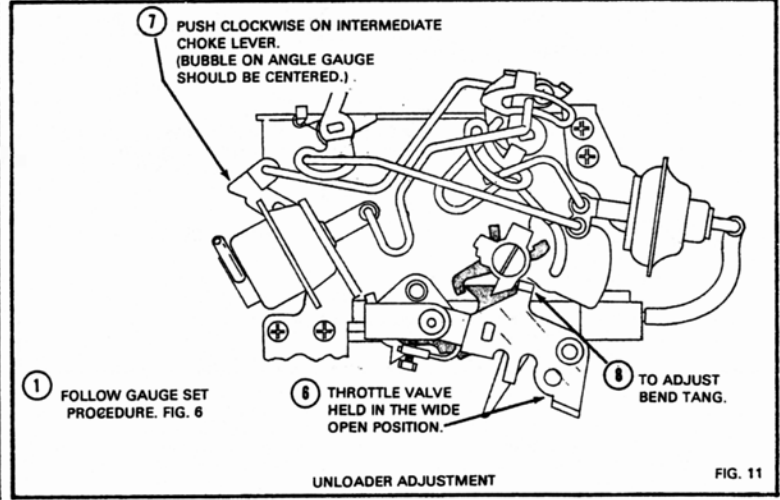
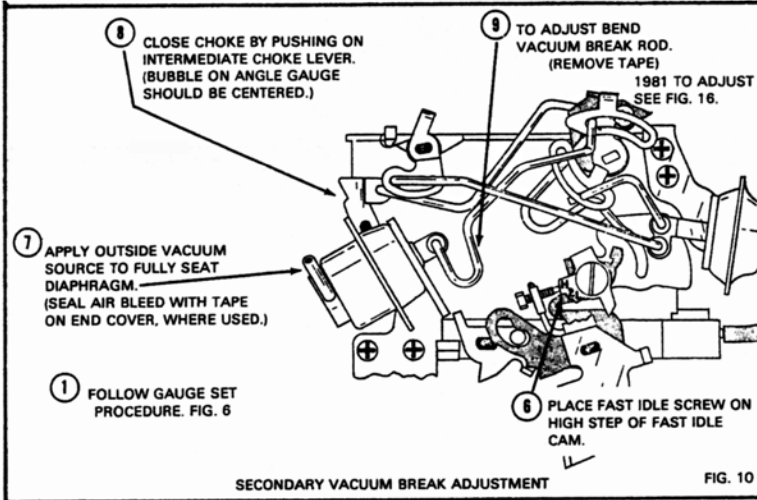
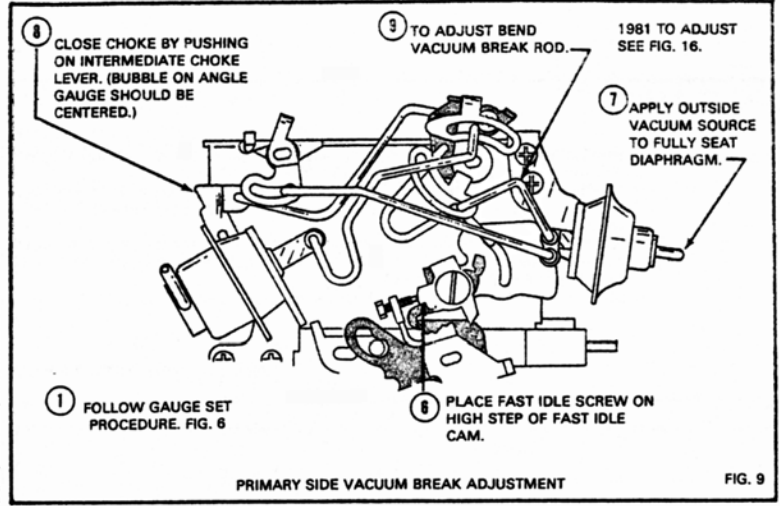
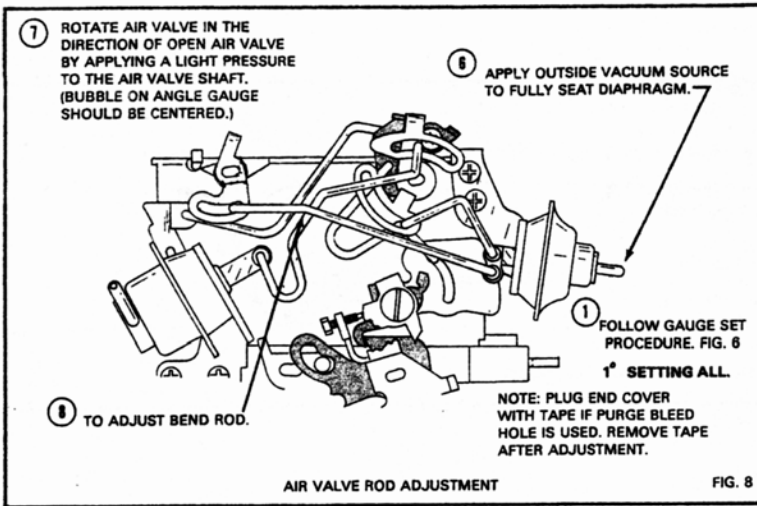
CHOKE COIL LEVER ADJUSTMENT

FIG. 5

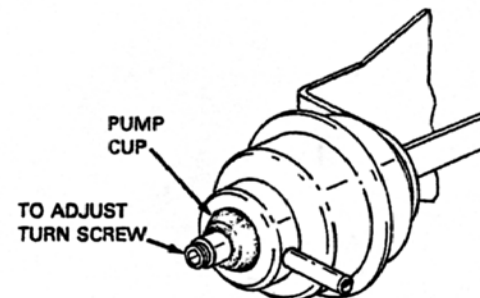


FAST IDLE CAM (CHOKE ROD) ADJUSTMENT

FIG. 7



1. REMOVE VACUUM BREAK ASSY. AND CAREFULLY GRIND OFF ADJUSTMENT SCREW CAP.
2. FOLLOW PRI. OR SEC. VAC. BREAK ADJUSTMENT PROCEDURE.
3. ON PRIMARY SIDE MAKE SURE VAC. DRAPHAGM IS FULLY SEATED. BEND AIR VALVE ROD TO OBTAIN A SLIGHT CLEARANCE BETWEEN ROD AND END OF SLOT. (FOLLOW PRI. VAC. BREAK ADJ. WITH AIR VALVE ROD ADJ.)
4. ON DELAY MODELS, PLUG AIR BLEED HOLE WITH A VERAJET TYPE PUMP PLUNGER CUP.
5. TO ADJUST USE A 1/8" HEX WRENCH TO TURN SCREW IN REAR COVER UNTIL BUBBLE IS CENTERED. (REMOVE CUP AFTER ADJUSTMENT.)
6. SEAL ADJ. SCREW WITH A SEALER. (SUCH AS A SILICONE SEALANT RTV RUBBER OR EQUIVALENT.)

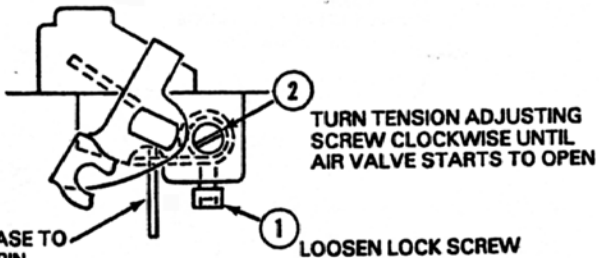


1981 TAMPER RESISTANT VACUUM BREAK ADJUSTMENT

FIG. 16

4 CYL.-1/2 TURN
V6 CYL.-1 TURN

③ TURN TENSION ADJUSTING SCREW COUNTER CLOCKWISE UNTIL AIR VALVE JUST CLOSSES. THEN TURN ADDITIONAL SPECIFIED TURNS.



② TURN TENSION ADJUSTING SCREW CLOCKWISE UNTIL AIR VALVE STARTS TO OPEN

① LOOSEN LOCK SCREW

NOTE: USE LITHIUM BASE GREASE TO LUBRICATE AIR VALVE SHAFT PIN.

AIR VALVE SPRING ADJUSTMENT