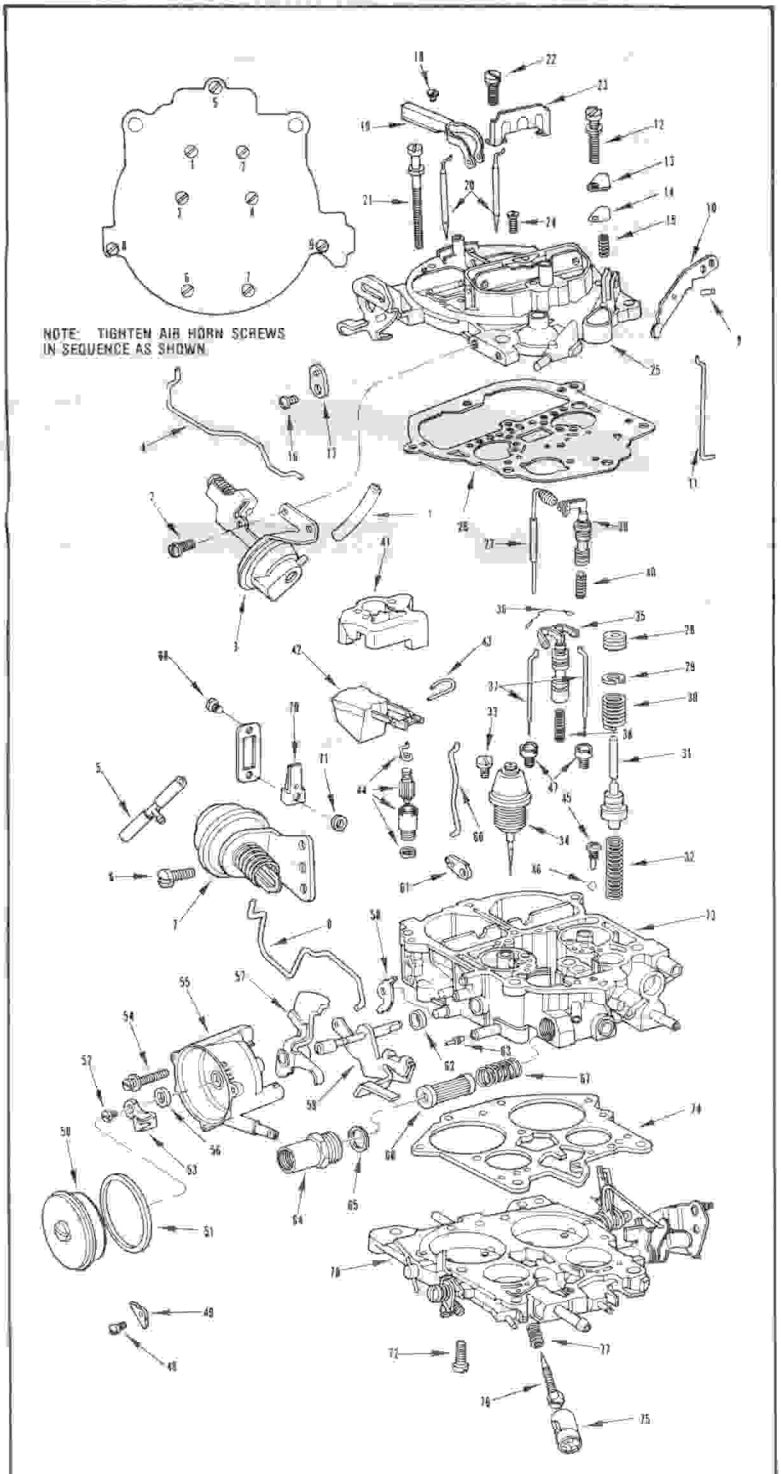
instruction sheet

Rochester Carburetor Models - M4MC-M4MCA-M4MEA

TYPICAL VIEW

The exploded view shown is typical of the model carburetor this kit will service. The view may differ slightly from the actual carburetor being renewed.

This is a universal kit that may contain more parts than are actually required to service a given carburetor. When similar gaskets or parts are included in the kit, compare with original parts.



DISASSEMBLY

Rest the carburetor on a repair stand to avoid damage to the throttle plates during renew procedures. Use exploded view as a guide, and follow the numerical sequence in general to disassemble unit far enough to permit cleaning and inspection. Do not remove throttle plates or shaft. Idle limiter: turn the idle limiter cap to its leanest (clockwise) position and remove cap. Observe and record the initial position of the needle slot. Turn the idle needles clockwise until lightly seated, recording the number of turns required to seat the needles. This procedure is necessary to reinstall the idle needles after renewing.

Use care not to damage idle adjusting needle when removing idle limiter caps.

CAUTION: Models using a main & aux. power piston, mark power piston spring as they are removed. They are not interchangeable.

NOMENCLATURE

REF. NO.	REF. NO.
1. Choke diaphragm hose	41. Fuel bowl filler
2. Choke diaphragm bracket screw	42. Float assembly
3. Choke diaphragm assembly	43. Float hinge pin
4. Choke diaphragm rod	44. Needle & seat assembly
5. Aux. choke diaphragm hose	45. Pump discharge ball screw
6. Choke diaphragm bracket screw	46. Pump discharge ball
7. Aux. choke diaphragm assy.	47. Main jet
8. Aux. choke diaphragm rod	48. Thermostat retainer screw
9. Pump lever roll pin	49. Thermostat retainer
10. Pump lever	50. Thermostat assembly
11. Pump rod	51. Thermostat gasket
12. Vent cover screw	52. Coil lever screw
13. Vent cover	53. Coil lever
14. Vent cover gasket	54. Choke housing screw
15. Vent valve spring	55. Choke housing assembly
16. Choke lever screw	56. Choke housing seal
17. Choke lever	57. Fast idle cam
18. Metering rod holder screw	58. Secondary lockout cam
19. Metering rod holder	59. Intermediate choke shaft assembly
20. Metering rod-secondary	60. Choke rod
21. Airhorn screw-long	61. Choke lever
22. Airhorn screw-short	62. Choke shaft seal
23. Air baffle	63. Vacuum fitting
24. Airhorn screw-special	64. Fuel inlet fitting
25. Airhorn assembly	65. Inlet fitting gasket
26. Airhorn gasket	* 66. Fuel inlet filter
27. Auxiliary metering rod	67. Inlet filter spring
28. Pump stem spacer	68. Hot idle compensator cover screw
29. Pump spring retainer	69. Hot idle compensator cover
30. Pump spring	70. Hot idle compensator assembly
31. Pump stem assembly	71. Hot idle compensator gasket
32. Pump return spring	72. Throttle body screw
33. Aneroid assembly screw	73. Main body
34. Aneroid assembly	74. Throttle body gasket
35. Power piston assembly	75. Idle limiter cap
36. Metering rod spring	76. Idle needle
37. Main metering rod	77. Idle needle spring
38. Power piston assy. spring	78. Throttle body
39. Auxiliary power piston	
40. Auxiliary power piston spring	

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CARBURETOR ADJUSTMENTS

CLEANING

Cleaning must be done with carburetor disassembled. Soak parts long enough to soften and remove all foreign material. Use a carburetor solvent, lacquer thinner or denatured alcohol. Make certain the throttle body is free of all hard carbon deposits. Wash 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 parts containing rubber or plastic material. Serious damage could result.

REASSEMBLY

Reassemble in reverse order of disassembly. Note special instructions and follow outline in making adjustments. Manually operate the throttle lever and choke mechanism, checking for binding or other malfunction. Any binding or interference could cause throttle to stick during operation and could result in loss of carburetor throttle control (or uncontrolled engine speed). Check carburetor to be sure there are no leaks or flooding which might cause a fire.

SPECIAL INSTRUCTIONS

ANEROID — or filler spool metering rod assembly should be handled gently. The units are factory adjusted. No adjustment should be attempted.

1976 MODELS — No attempt should be made to adjust the A.P.T. screw located in front of the power piston. Factory adjusted to meet emissions.

SEALS — Intermediate choke shaft seal. Install with lip facing out of choke housing seal. Install with lip facing in.

CHOKE COVER ASSY. — Do not install cover until choke linkage adjustments are made. **CAUTION**: Electric choke models do not use a choke cover gasket between the electric choke assy. and housing power piston assys. Press down firmly on plastic power piston retainer to be sure it is flush with top of bowl casting.

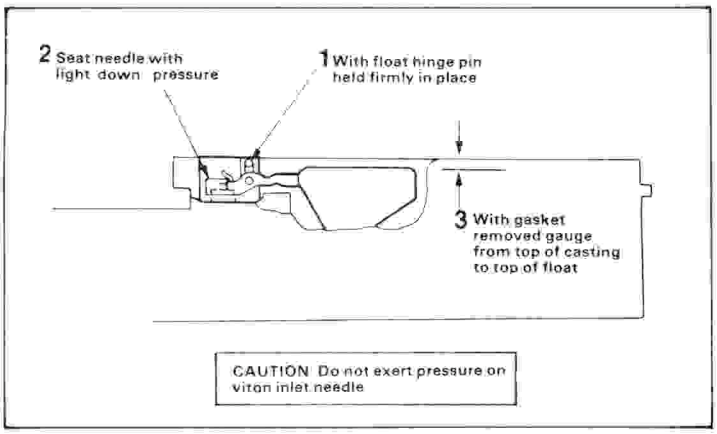

FIG. 1 - DRY FLOAT ADJUSTMENT

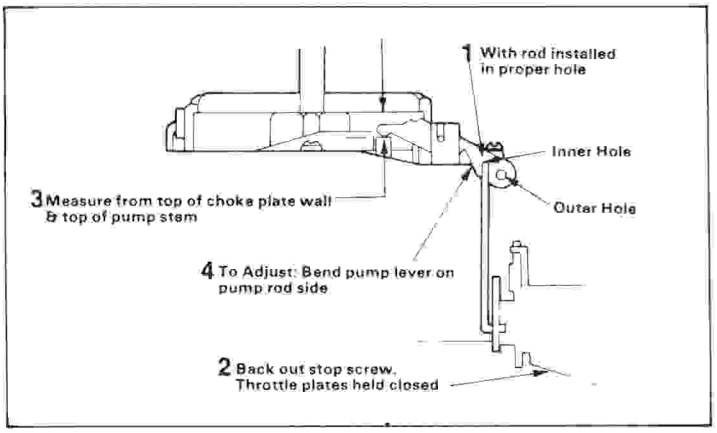

FIG. 2 – PUMP ROD ADJUSTMENT

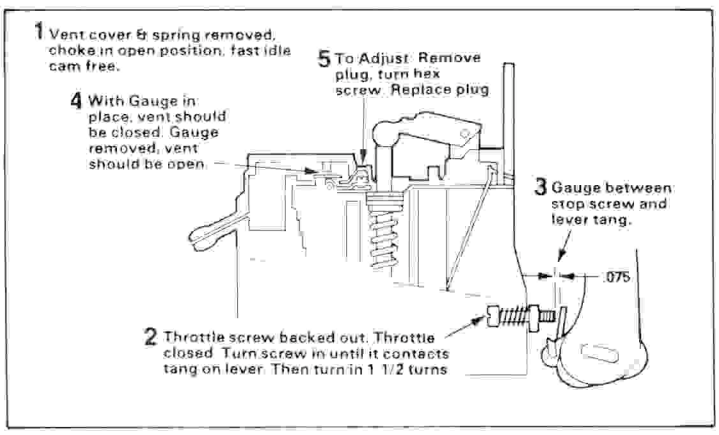

FIG. 3 – BOWL VENT ADJUSTMENT

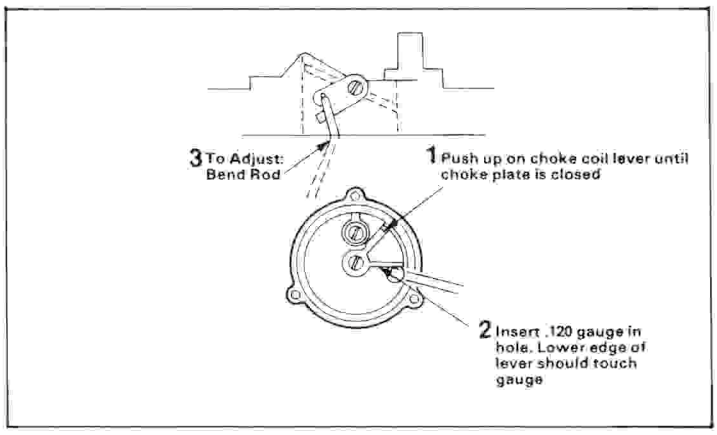

FIG. 4 – CHOKE COIL LEVER ADJUSTMENT

CARBURETOR ADJUSTMENTS

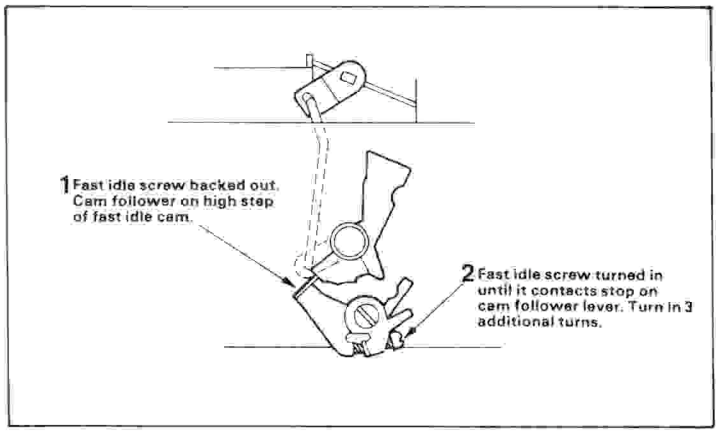

FIG. 5 – FAST IDLE SETTING (Off Engine)

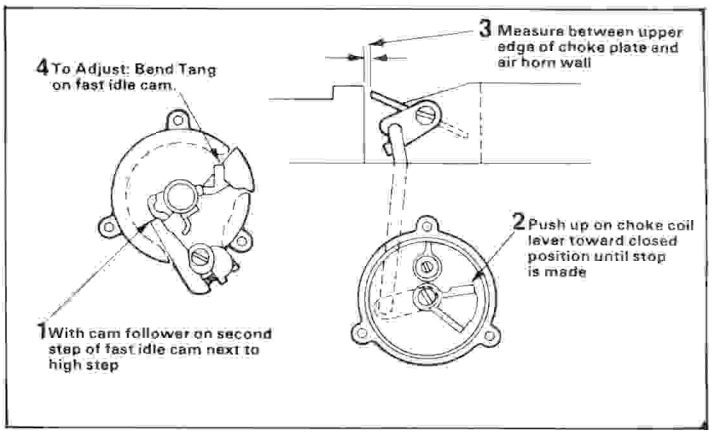

FIG. 6 – CHOKE ROD ADJUSTMENT

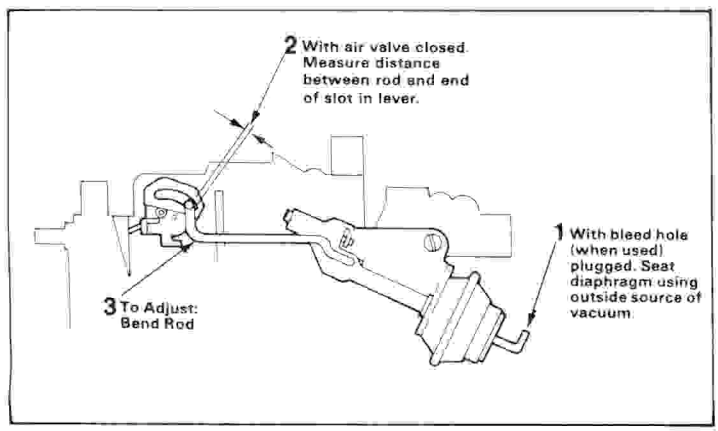

FIG. 7 – AIR VALVE ROD ADJUSTMENT

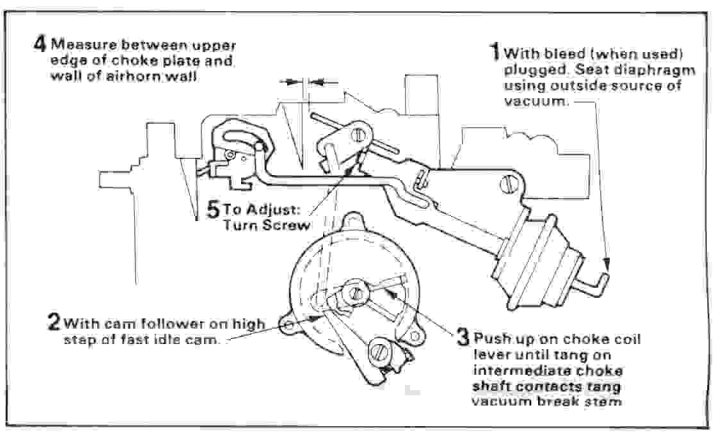

FIG. 8 – VACUUM BREAK ADJUSTMENT (Front)

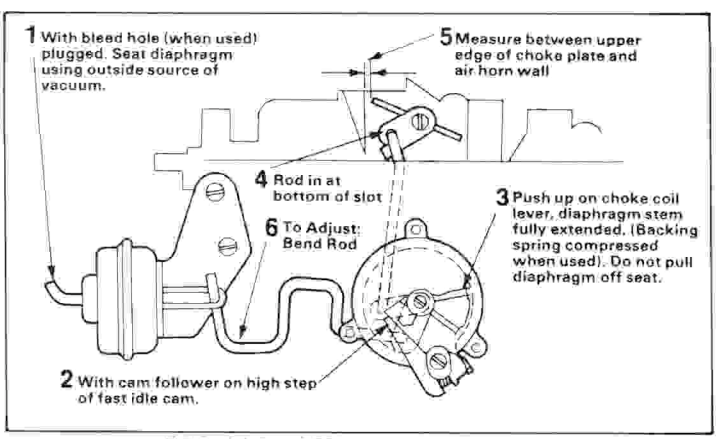

FIG. 9 – VACUUM BREAK ADJUSTMENT (Rear)

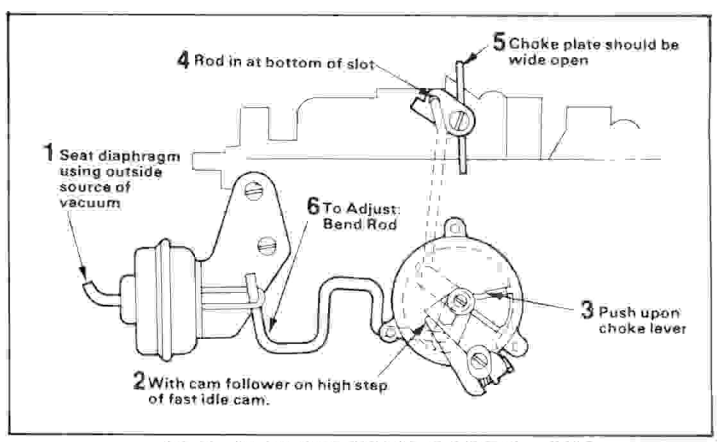

FIG. 10 – VACUUM BREAK ADJUSTMENT (Rear 454" Eng.)

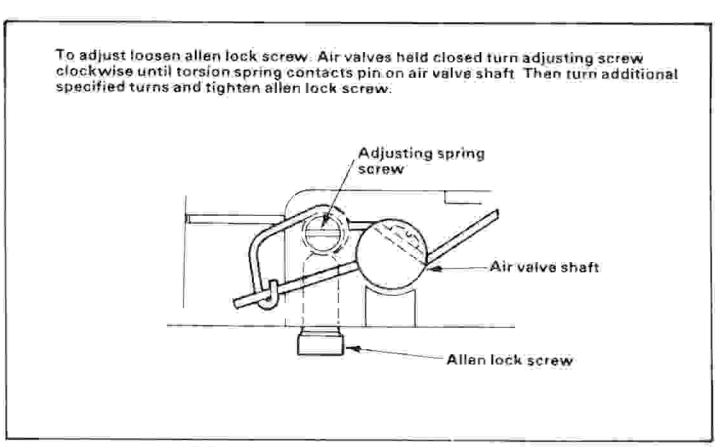

FIG. 11 – AIR VALVE SPRING ADJUSTMENT

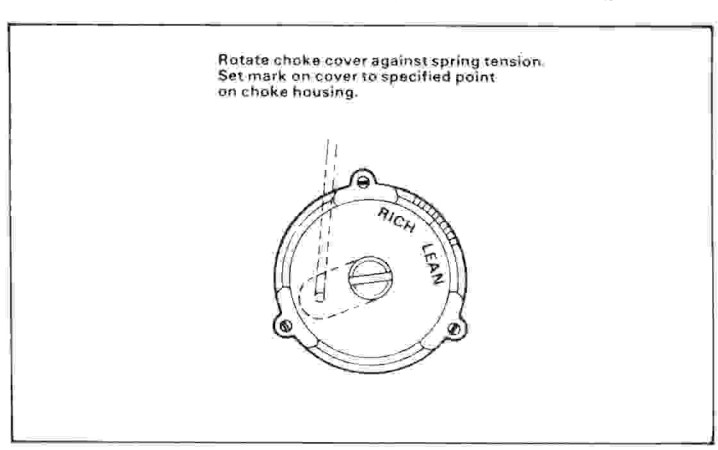

FIG. 12 – AUTOMATIC CHOKE ADJUSTMENT

CARBURETOR ADJUSTMENTS

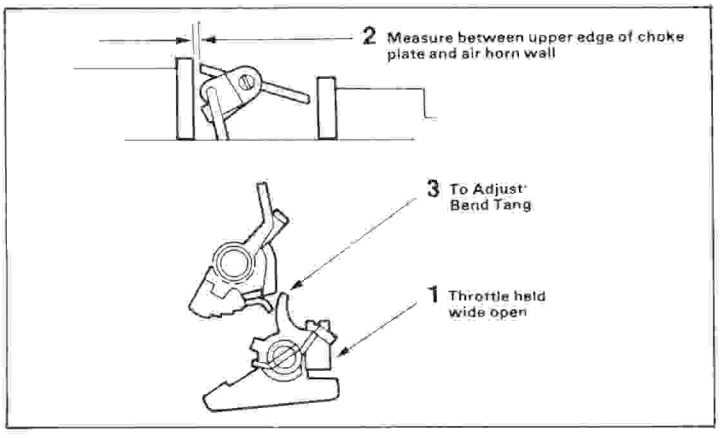

FIG. 13 – UNLOADER ADJUSTMENT

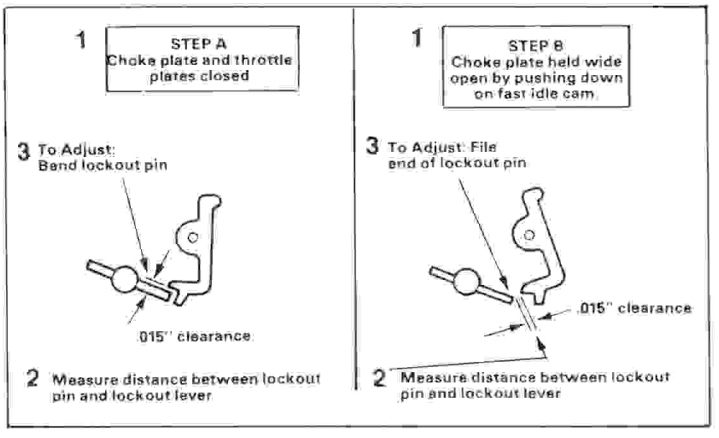

FIG. 14 – SECONDARY THROTTLE LOCKOUT ADJUSTMENT

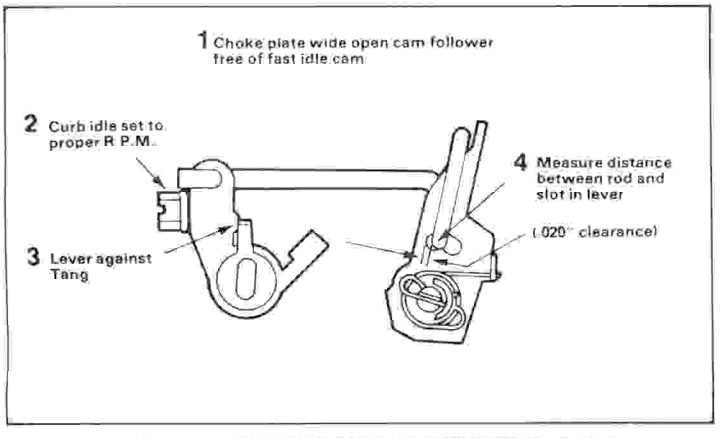

FIG. 15 – SECONDARY CLOSING ADJUSTMENTS (On Engine)

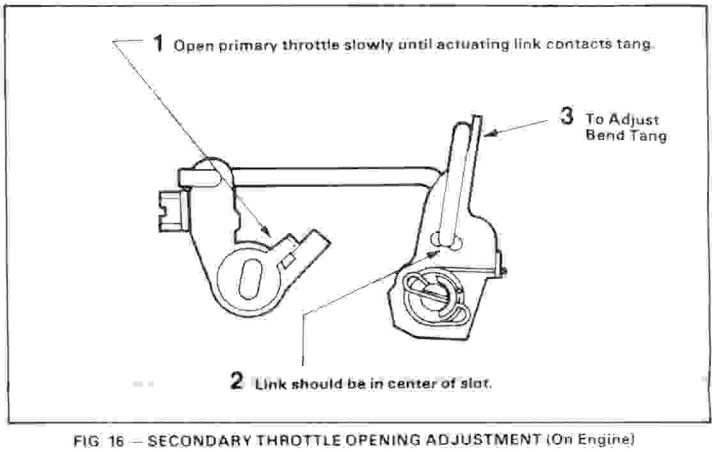

FIG. 16 – SECONDARY THROTTLE OPENING ADJUSTMENT (On Engine)

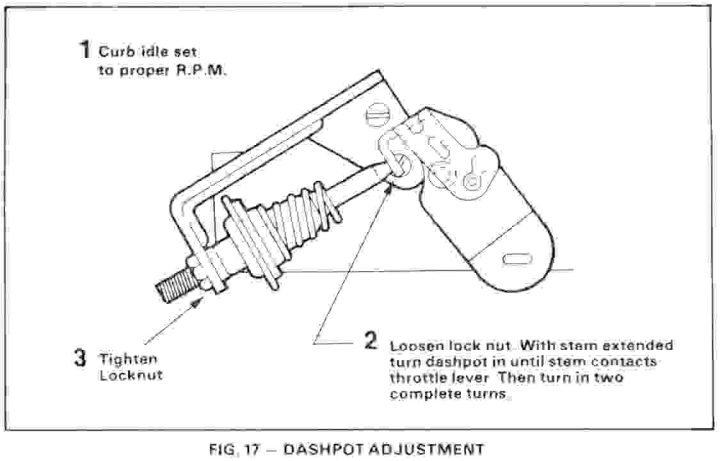

FIG. 17 – DASHPOT ADJUSTMENT

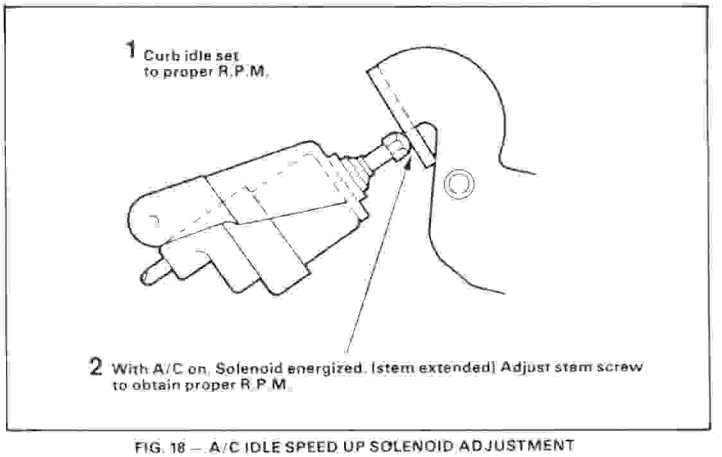

FIG. 18 – A/C IDLE SPEED UP SOLENOID ADJUSTMENT

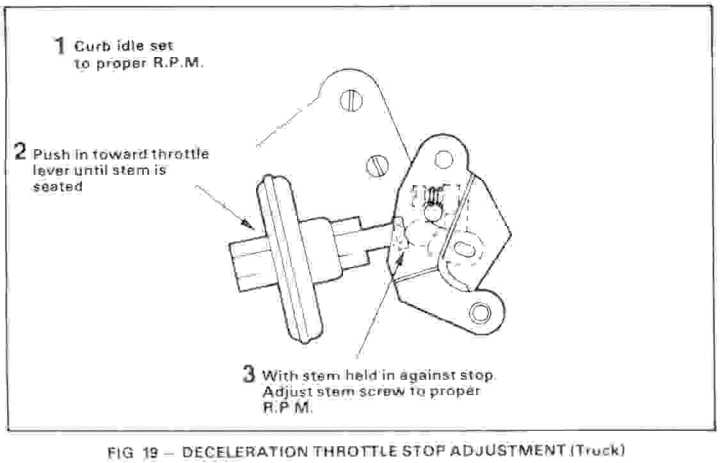

FIG 19 – DECELERATION THROTTLE STOP ADJUSTMENT (Truck)

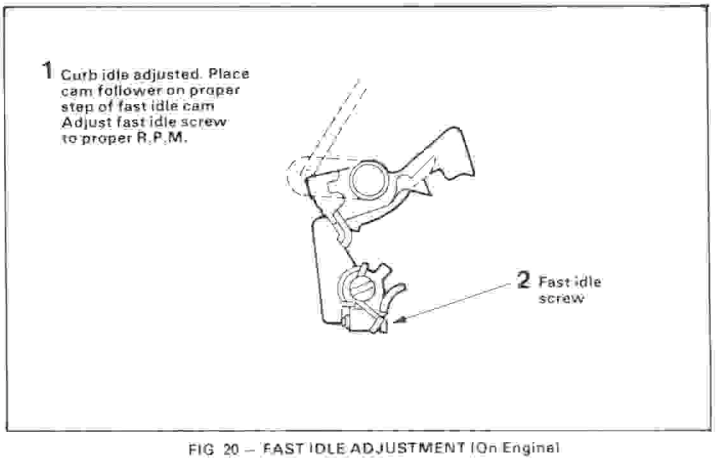

FIG 20 – FAST IDLE ADJUSTMENT (On Engine)