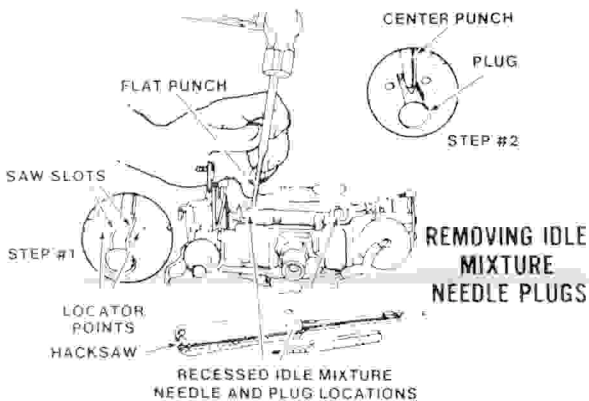


CARB KIT INSTRUCTION SHEET FOR ROCHESTER MODIFIED-QUADRAJET CARBURETORS-M4MC, M4ME

Carb Kit contains all necessary parts and instructions to tune-up your Rochester Carburetor properly. When similar parts are contained in the Carb Kit, choose the ones that most closely match the existing parts. Some parts in the kit may not be needed.

1. **DISASSEMBLE** carburetor. Use accompanying exploded view as a guide.

- Remove pump lever by driving roll pin through far enough to permit release of lever.
- Remove air horn screws. See tightening sequence for locations. Some models do not have screws at locations 8, 9, 12, and 13.
- Remove power piston by pressing down and releasing with a snap.
- Remove power piston spring(s) and identify to aid in reassembly.
- Do Not turn nor remove factory-adjusted stop screw next to power piston.
- Do Not turn nor remove factory adjusted screw in aneroid cover.
- Turn idle mixture needles clockwise and record number of turns needed to lightly bottom them, for use during reassembly. Remove needles.

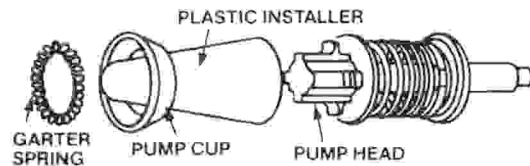


2. **CLEAN** carburetor by soaking in an approved cold immersion type cleaner, such as Delco X-55 Metallic Parts Cleaner. Solenoids, choke cover, aneroid, float, float bowl inserts, vacuum breaks, seals or other parts containing rubber, should not be placed in carburetor cleaner. All passages should be blown out with compressed air.

3. **REASSEMBLE** carburetor and **ADJUST** following sequence illustrated. Refer to model number for specifications.

- Install new intermediate choke shaft seal in float bowl. Lip faces outward. On Hot Air Choke models, install additional shaft seal in choke housing. Lip faces float bowl.

- Do Not install float needle pull clip into holes in float arm.
- Install power piston. Press plastic retainer into bore until flush with top of float bowl casting.
- If present pump is assembled with a BLUE Viton cup, do not remove nor replace cup. (See catalog for replacement pump assembly.) Otherwise, remove cup (with garter spring, if used) from pump head. Install new cup (with new garter spring, if used) on pump head. Plastic Installer may assist installation.



- If used, install new pump stem seal and retainer in air horn. Lip faces toward outside of carburetor. Lightly stake casting around retainer.
- Select correct air horn gasket by matching replacement to old gasket.

MATCH AT THESE LOCATIONS



- Tighten Air Horn Screws in numerical sequence.
- Do Not install a gasket between electric choke cover and choke housing. This contact provides the ground for the electric choke.

4. Reinstall carburetor. Torque long mounting bolts to 8 ft. lbs. and **SHORT** mounting bolts to 14 ft. lbs.

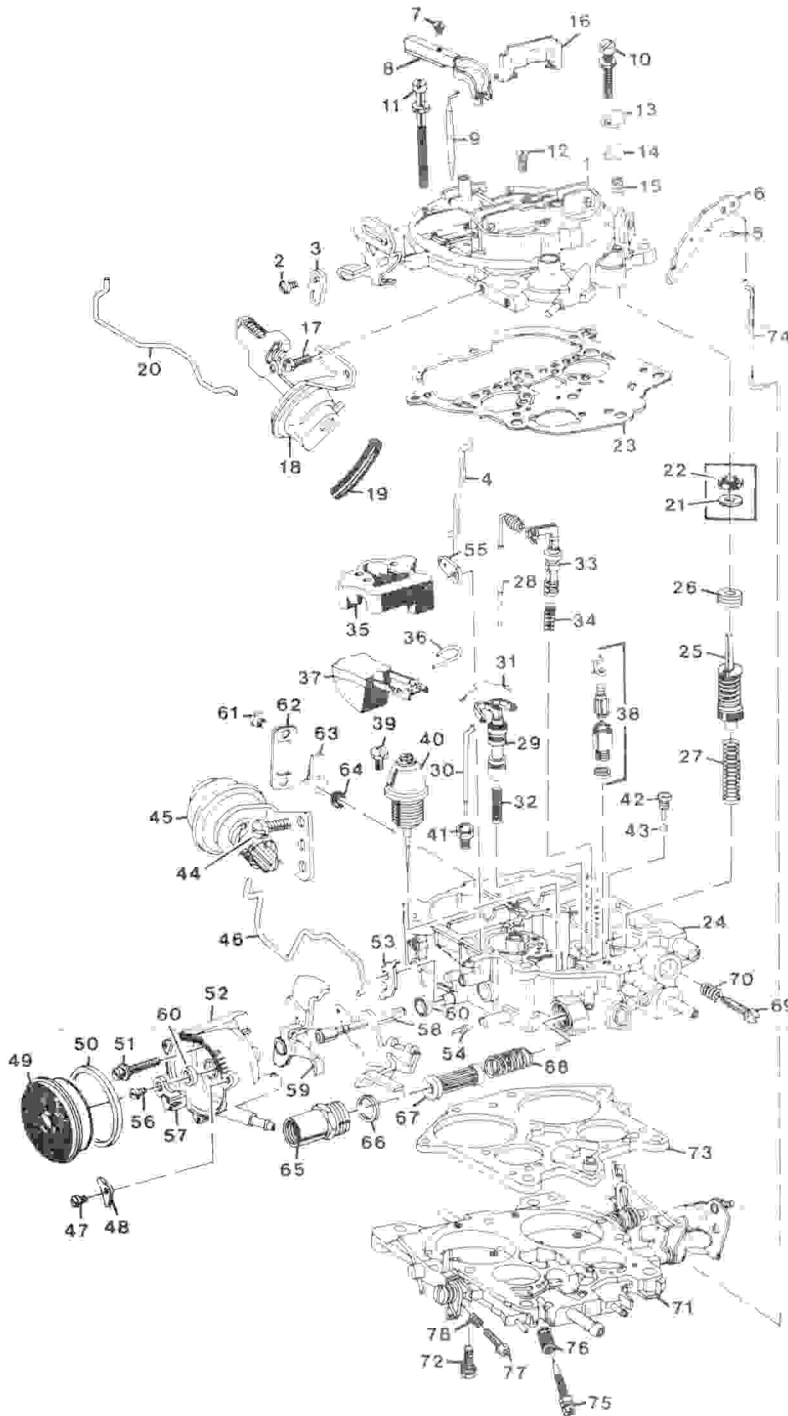
NOTICE: The air cleaner and flange gaskets supplied in this kit were not intended for use in Marine or Industrial applications. Refer to such manufacturer for recommended gaskets.

5. Adjust idle mixture and speed according to vehicle manufacturer's specifications.

- Apply silicone sealant (RTV) to idle mixture needle openings, to prevent possible fuel vapor emissions.

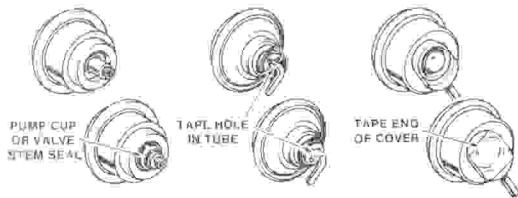
TYPICAL EXPLODED VIEW OF MODIFIED-QUADRAJET CARBURETOR

PART DESCRIPTION

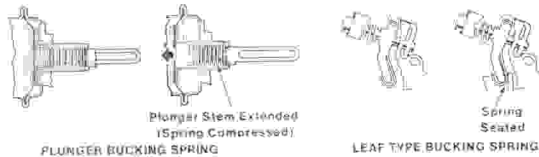


1. Air Horn Assembly
2. Screw-Choke Lever Attaching
3. Lever-Choke
4. Link-Choke
5. Roll Pin-Pump Lever Hinge
6. Lever-Pump Actuating
7. Screw-Metering Rod Hanger Attaching
8. Hanger-Secondary Metering Rod
9. Rod-Secondary Metering
10. Screw Asm-Air Horn to Float Bowl
11. Screw Asm-Air Horn to Float Bowl (Long)
12. Screw-Air Horn to Float bowl (Countersunk)
13. Cover-Vent Valve
14. Gasket-Vent Valve Cover
15. Spring-Vent Valve
16. Bar/Plate-Secondary
17. Screw-Front Vacuum Break Attaching
18. Front Vacuum Break Assembly
19. Hose-Front Vacuum Break
20. Link-Air Valve
21. Retainer-Pump Plunger Stem Seal
22. Seal-Pump Plunger Stem (Some Models)
23. Gasket-Air Horn to Float Bowl
24. Float Bowl Assembly
25. Pump Assembly
26. Spacer-Vent Valve Actuating
27. Spring-Pump Return
28. Rod-Auxiliary Metering
29. Power Piston Assembly
30. Rod-Primary Metering
31. Retainer-Primary Metering Rod
32. Spring-Power Piston
33. Auxiliary Power Piston Assembly
34. Spring-Auxiliary Power Piston
35. Insert-Float Bowl
36. Hinge Pin-Float
37. Float Assembly
38. Needle & Seat Assembly
39. Screw-APT Metering Rod Cover Attaching
40. APT Metering Rod Assembly
41. Jet-Primary Metering
42. Retainer-Pump Discharge Ball
43. Ball-Pump-Discharge
44. Screw-Rear Vacuum Break Attaching
45. Rear Vacuum Break Assembly
46. Link-Rear Vacuum Break
47. Screw-Choke Cover Attaching
48. Retainer-Choke Cover
49. Choke Stat & Cover Assembly
50. Gasket-Stat Cover
51. Screw Asm-Choke Housing Attaching
52. Choke Housing Assembly
53. Lever-Secondary Lockout
54. Seal-Choke Housing to Float Bowl
55. Lever-Intermediate Choke
56. Screw-Stat Coil Lever Attaching
57. Lever-Stat Coil
58. Intermediate Choke Shaft & Lever Asm
59. Cam-Fast Idle
60. Seal-Intermediate Choke Shaft
61. Screw-Compensator Cover Attaching
62. Cover-Idle Compensator
63. Idle Compensator Assembly
64. Gasket-Idle Compensator
65. Nut-Fuel Inlet
66. Gasket-Fuel Inlet Nut
67. Filter-Fuel Inlet
68. Spring-Fuel Filter
69. Screw-Idle Stop
70. Spring-Idle Stop Screw
71. Throttle Body Assembly
72. Screw Asm-Throttle Body to Float Bowl
73. Gasket-Throttle Body to Float Bowl
74. Rod-Pump
75. Needle-Idle Mixture
76. Spring Idle Mixture Needle
77. Screw-Fast Idle
78. Spring-Fast Idle Screw

PLUGGING AIR BLEED HOLES

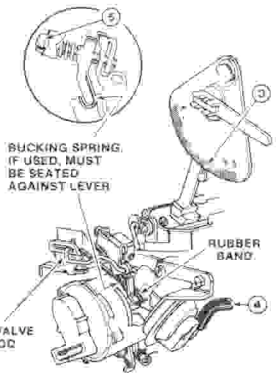


BUCKING SPRINGS



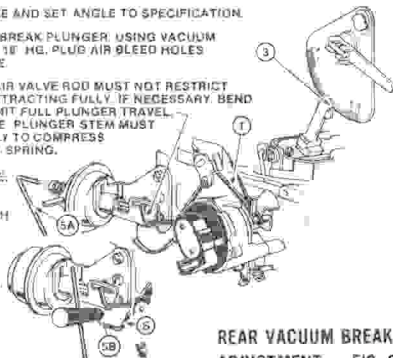
VACUUM BREAK ADJUSTMENT INFORMATION

- 1 ATTACH RUBBER BAND TO GREEN TANG OF INTERMEDIATE CHOKE SHAFT
- 2 OPEN THROTTLE TO ALLOW CHOKE VALVE TO CLOSE
- 3 SET UP ANGLE GAGE AND SET TO SPECIFICATION
- 4 RETRACT VACUUM BREAK PLUNGER USING VACUUM SOURCE. AT LEAST 18" HG. PLUG AIR BLEED HOLES WHERE APPLICABLE
- 5 WITH AT LEAST 18" HG STILL APPLIED, ADJUST SCREW TO CENTER BUBBLE



FRONT VACUUM BREAK ADJUSTMENT FIG. 7

- 1 ATTACH RUBBER BAND TO GREEN TANG OF INTERMEDIATE CHOKE SHAFT.
- 2 OPEN THROTTLE TO ALLOW CHOKE VALVE TO CLOSE
- 3 SET UP ANGLE GAGE AND SET ANGLE TO SPECIFICATION.
- 4 RETRACT VACUUM BREAK PLUNGER USING VACUUM SOURCE. AT LEAST 18" HG. PLUG AIR BLEED HOLES WHERE APPLICABLE
- 4A ON QUADRAJET, AIR VALVE ROD MUST NOT RESTRICT PLUNGER FROM RETRACTING FULLY. IF NECESSARY, BEND ROD HERE TO PERMIT FULL PLUNGER TRAVEL. WHERE APPLICABLE, PLUNGER STEM MUST BE EXTENDED FULLY TO COMPRESS PLUNGER BUCKING SPRING.
- 5 TO CENTER BUBBLE, EITHER:
 - A. ADJUST WITH 1/8" HEX WRENCH (VACUUM STILL APPLIED)
 - OR-
 - B. SUPPORT AT 5" AND BEND VACUUM BREAK ROD (VACUUM STILL APPLIED)



REAR VACUUM BREAK ADJUSTMENT FIG. 8

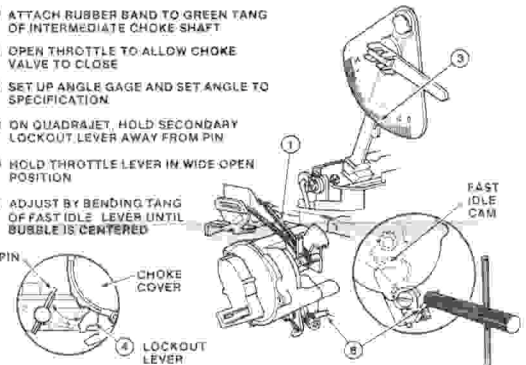
- 1 USE VACUUM SOURCE. AT LEAST 18" HG. TO SEAT VACUUM BREAK PLUNGER. PLUG AIR BLEED HOLES WHERE APPLICABLE
- 2 AIR VALVE CLOSED COMPLETELY
- 3 .025" PLUG GAGE BETWEEN ROD AND END OF SLOT
- 4 BEND ROD HERE TO ADJUST GAGE CLEARANCE TO .025", WITH VACUUM AT LEAST 18" HG.

AIR VALVE ROD ADJUSTMENT - FRONT FIG. 9A

- 1 USE VACUUM SOURCE. AT LEAST 18" HG. TO SEAT VACUUM BREAK PLUNGER. PLUG AIR BLEED HOLES WHERE APPLICABLE.
- 2 AIR VALVE CLOSED COMPLETELY
- 3 .025" PLUG GAGE BETWEEN ROD AND END OF SLOT IN LEVER
- 4 BEND HERE TO OBTAIN .025" CLEARANCE BETWEEN ROD AND END OF SLOT. WITH VACUUM AT LEAST 18" HG.

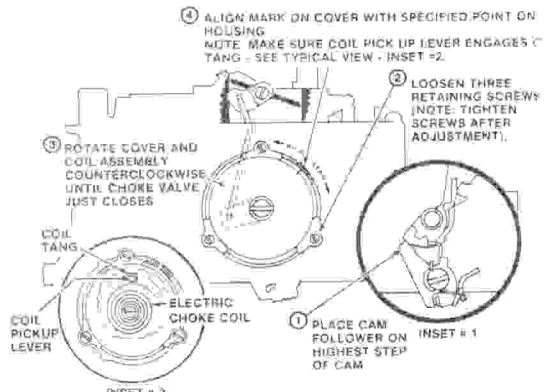
AIR VALVE ROD ADJUSTMENT - REAR FIG. 9B

- 1 ATTACH RUBBER BAND TO GREEN TANG OF INTERMEDIATE CHOKE SHAFT
- 2 OPEN THROTTLE TO ALLOW CHOKE VALVE TO CLOSE
- 3 SET UP ANGLE GAGE AND SET ANGLE TO SPECIFICATION
- 4 ON QUADRAJET, HOLD SECONDARY LOCKOUT LEVER AWAY FROM PIN
- 5 HOLD THROTTLE LEVER IN WIDE OPEN POSITION
- 6 ADJUST BY BENDING TANG OF FAST IDLE LEVER UNTIL BUBBLE IS CENTERED



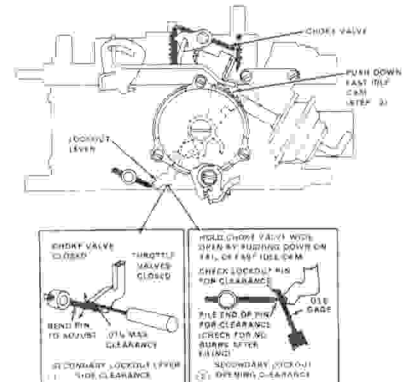
UNLOADER ADJUSTMENT FIG. 10

- 1 PLACE CAM FOLLOWER ON HIGHEST STEP OF CAM
- 2 LOOSEN THREE RETAINING SCREWS (NOTE: TIGHTEN SCREWS AFTER ADJUSTMENT).
- 3 ROTATE COVER AND COIL ASSEMBLY COUNTERCLOCKWISE UNTIL CHOKE VALVE JUST CLOSURES
- 4 ALIGN MARK ON COVER WITH SPECIFIED POINT ON HOUSING (NOTE: MAKE SURE COIL PICK UP LEVER ENGAGES C TANG - SEE TYPICAL VIEW - INSET #2)

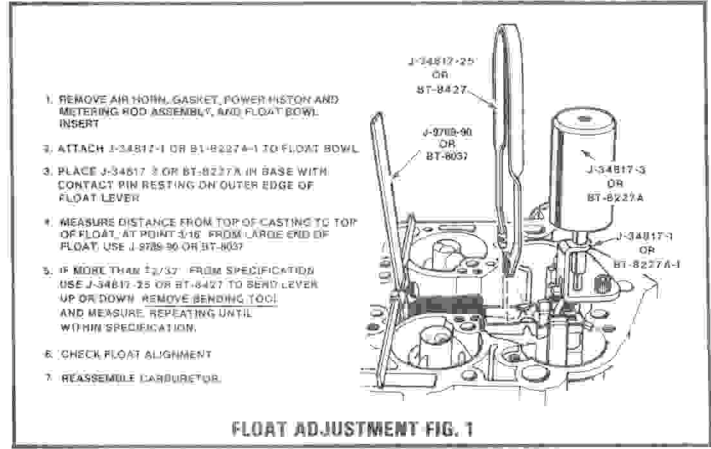
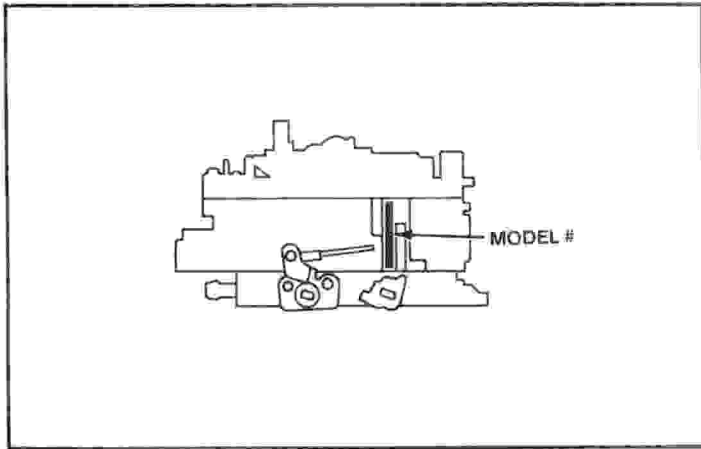


AUTOMATIC CHOKE COIL ADJUSTMENT FIG. 11

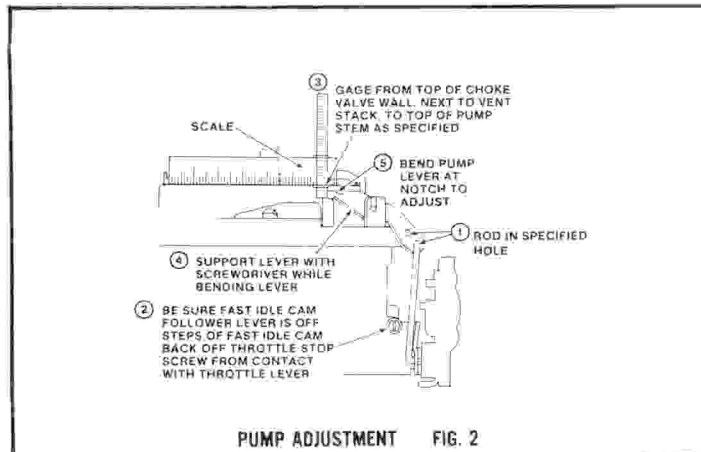
- 1 HOLD CHOKE VALVE WIDE OPEN BY HOLDING DOWN ON TANG OF FAST IDLE CAM
- 2 CHECK LOOSELY FOR TIGHT CLEARANCE
- 3 FILE END OF PIN FOR CLEARANCE (CHECK FOR NO BUMPING AFTER TURNING SECONDARY LOCKOUT LEVER TO THIS CLEARANCE)
- 4 LOCKOUT LEVER



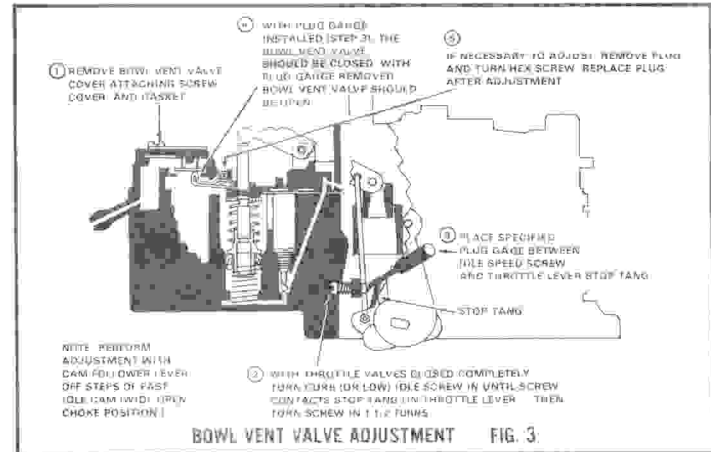
SECONDARY LOCKOUT ADJUSTMENT FIG. 12



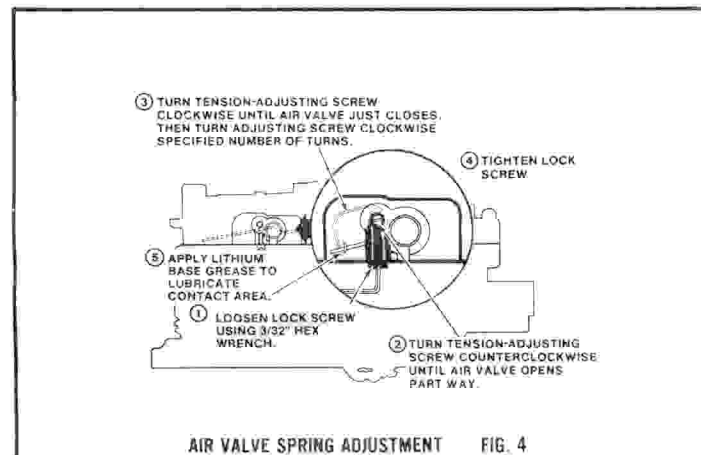
FLOAT ADJUSTMENT FIG. 1



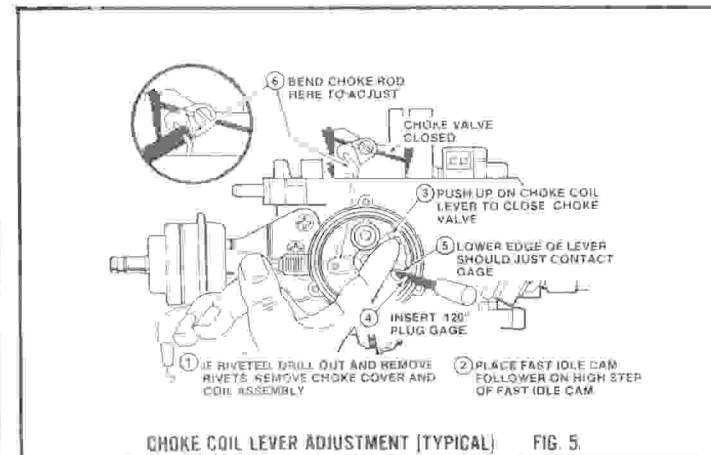
PUMP ADJUSTMENT FIG. 2



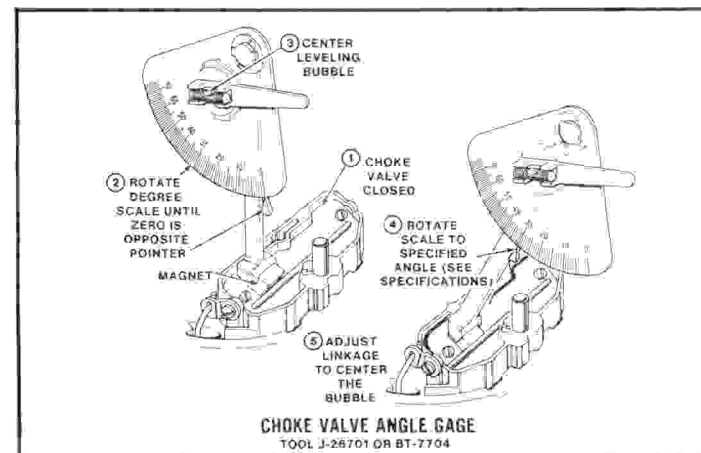
BOWL VENT VALVE ADJUSTMENT FIG. 3



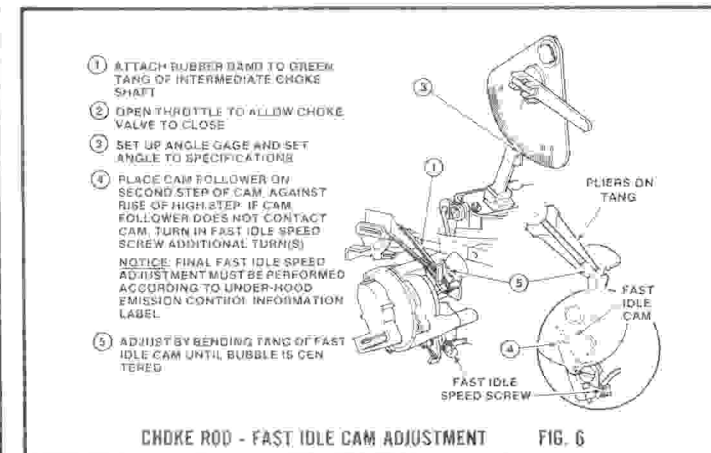
AIR VALVE SPRING ADJUSTMENT FIG. 4



CHOKE COIL LEVER ADJUSTMENT (TYPICAL) FIG. 5



CHOKE VALVE ANGLE GAGE
TOOL J-26701 OR BT-7704



CHOKE ROD - FAST IDLE CAM ADJUSTMENT FIG. 6