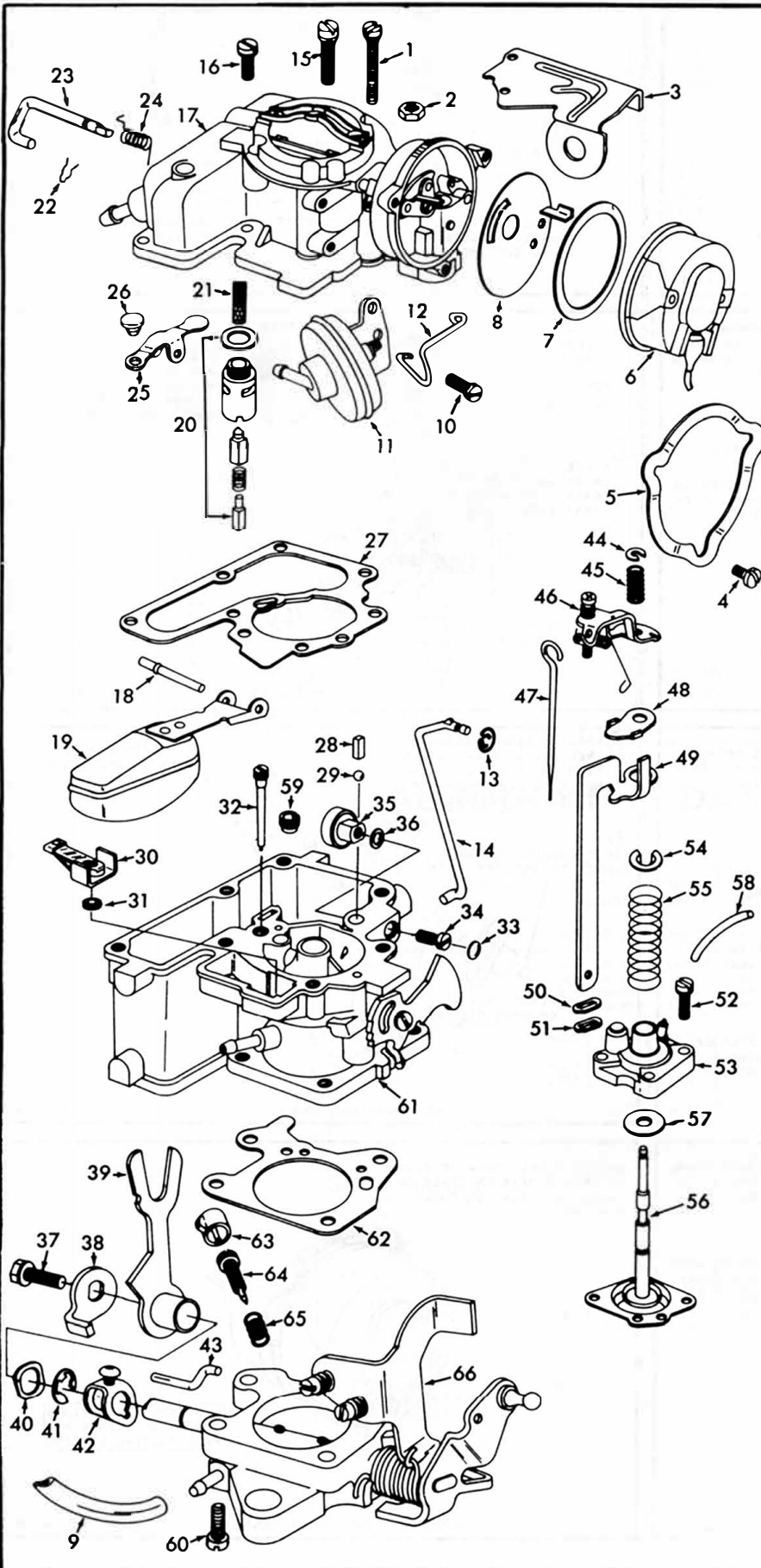


# INSTRUCTION SHEET CARTER CARBURETOR - MODEL - YFA

50-549-2

## 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. CAUTION: NOTE THE LOCATION OF ANY WASHERS SHIMMING EITHER SPRING 45 OR 55 FOR PROPER REASSEMBLY. REMOVE IDLE LIMITER CAP (63). BEFORE REMOVING IDLE ADJUSTING NEEDLE, TURN IN CLOCKWISE COUNTING THE NUMBER OF TURNS IT TAKES TO LIGHTLY SEAT THE NEEDLE. RECORD FOR REASSEMBLY.

## NOMENCLATURE

| REF. NO.                                             | REF. NO.                                  |
|------------------------------------------------------|-------------------------------------------|
| 1. SCREW & LKWSHR. (2) - BRACKET                     | 34. SCREW - PUMP RELIEF CHECK             |
| 2. LOCKNUT - BRACKET SCREW                           | 35. PUMP RELIEF CHECK ASSY.               |
| 3. BRACKET                                           | 36. GASKET - PUMP RELIEF CHECK ASSY.      |
| 4. SCREW (3) - CHOKE COVER CLAMP                     | 37. SCREW - VENT OPERATING LEVER STOP     |
| 5. CLAMP - CHOKE COVER                               | 38. LEVER - VENT STOP                     |
| 6. CHOKE COVER & SPRING ASSY.                        | 39. LEVER - OPERATING                     |
| 7. GASKET - CHOKE COVER                              | 40. SPRING WASHER - OPERATING LEVER       |
| 8. BAFFLE PLATE - CHOKE                              | 41. E CLIP - SPRING WASHER RETAINER       |
| 9. HOSE - CHOKE PULL-OFF                             | 42. ARM - PUMP LINK                       |
| 10. SCREW (2) - CHOKE PULL-OFF ASSY.                 | 43. LINK - PUMP CONNECTOR                 |
| 11. CHOKE PULL-OFF ASSY.                             | 44. RETAINER - UPPER PUMP SPRING          |
| 12. LINK - CHOKE PULL-OFF                            | 45. SPRING - UPPER PUMP                   |
| 13. RETAINER - FAST IDLE ROD                         | 46. ARM & ADJ. SCREW ASSY. - METERING ROD |
| 14. ROD - FAST IDLE                                  | 47. ROD - METERING                        |
| 15. SCREW & LKWSHR. (2) - BOWL COVER                 | 48. PLATE - ADJ. SCREW                    |
| 16. SCREW & LKWSHR. (3) - BOWL COVER                 | 49. LINK - PUMP LIFTER                    |
| 17. BOWL COVER ASSY.                                 | 50. RETAINER - LIFTER LINK SEAL           |
| 18. PIN - FLOAT                                      | 51. SEAL - LIFTER LINK                    |
| 19. FLOAT & LEVER ASSY.                              | 52. SCREW & LKWSHR. (4) - PUMP HOUSING    |
| 20. NEEDLE, SEAT & GASKET ASSY.                      | 53. PUMP HOUSING ASSY.                    |
| 21. SCREEN - NEEDLE SEAT                             | 54. RETAINER - PUMP SPRING                |
| 22. RETAINER - VENT VALVE SHAFT                      | 55. SPRING - PUMP RETURN                  |
| 23. SHAFT - VENT VALVE                               | 56. PUMP DIAPHRAGM ASSY.                  |
| 24. SPRING - VENT SHAFT                              | 57. SPACER - PUMP DIAPHRAGM               |
| 25. LEVER - VENT VALVE                               | 58. TUBE - PUMP PASSAGE                   |
| 26. VALVE - VENT                                     | 59. JET - MAIN                            |
| 27. GASKET - BOWL COVER                              | 60. SCREW (4) - THROTTLE BODY             |
| 28. WEIGHT - DISC BALL                               | 61. BOWL ASSY.                            |
| 29. BALL - PUMP DISC CHECK                           | 62. GASKET - THROTTLE BODY                |
| 30. VALVE ASSY. - HOT IDLE COMPENSATOR (SOME MODELS) | 63. CAP - IDLE LIMITER                    |
| 31. GASKET - HOT IDLE COMP. VALVE                    | 64. NEEDLE - IDLE ADJUSTING               |
| 32. JET - LOW SPEED                                  | 65. SPRING - IDLE NEEDLE                  |
| 33. PLUG - PUMP RELIEF SCREW                         | 66. THROTTLE BODY ASSY.                   |

## CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. MAKE CERTAIN THE THROTTLE BORE IS FREE OF ALL CARBON AND VARNISH DEPOSITS. RINSE 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 MATERIALS OR UNITS SUCH AS (6), (9), (11), (35).

## REASSEMBLY

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

## SPECIAL INSTRUCTIONS

IDLE ADJUSTING NEEDLE (64) - TURN IN UNTIL LIGHTLY SEATED, THEN BACK OUT NUMBER OF TURNS RECORDED ON DISASSEMBLY. (DO NOT INSTALL LIMITER CAP AT THIS TIME.)

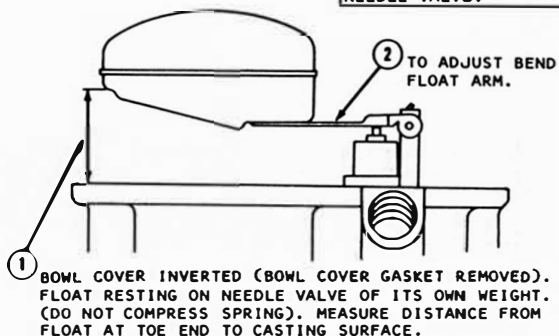
PUMP DIAPHRAGM INSTALLATION (58) - INSERT DIAPHRAGM (58) SPACER (57) IN HOUSING (53) AND ALIGN HOLES. INSERT SCREWS THROUGH HOUSING AND DIAPHRAGM. INSTALL SPRING (55) AND RETAINER (54). PLACE IN CARBURETOR START SCREWS THEN PUSH DOWN ON DIAPHRAGM STEM, HOLDING IN THIS POSITION, TIGHTEN SCREWS.

WELCH PLUG (33) - INSTALL PLUG BY SEATING IT SECURELY WITH A 1/4" FLAT DRIFT PUNCH.

FLOAT PIN (18) - INSTALL WITH SHOULDER ON PIN AWAY FROM PUMP DIAPHRAGM STEM.

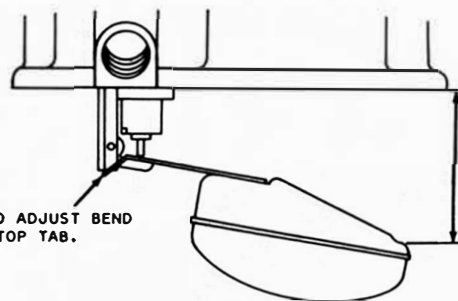
# ADJUSTMENTS

CAUTION: DO NOT EXERT PRESSURE ON RESILIENT NEEDLE VALVE.



DRY FLOAT LEVEL ADJUSTMENT

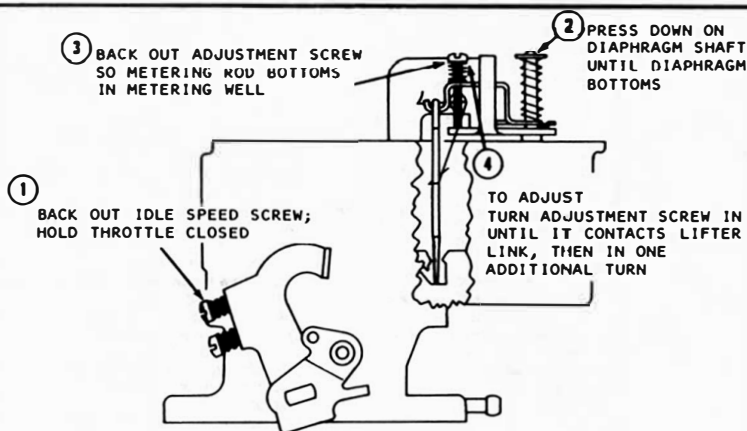
FIG. 1



1 BOWL COVER HELD IN UPRIGHT POSITION, FLOAT HANGING FREE. MEASURE DISTANCE BETWEEN TOE END OF FLOAT AND CASTING SURFACE.

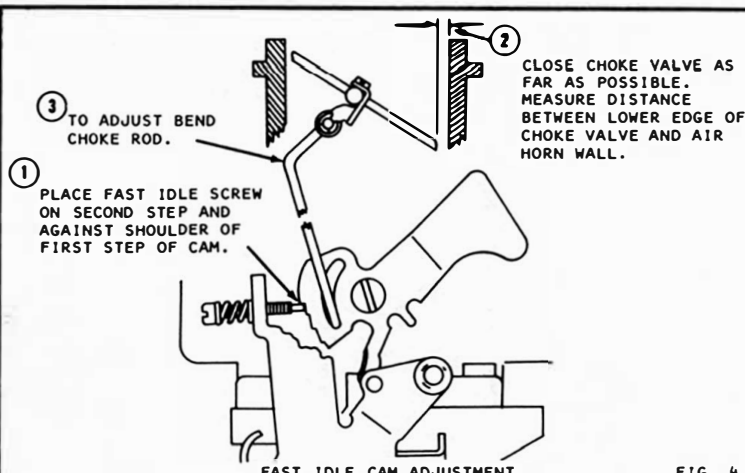
FLOAT DROP ADJUSTMENT

FIG. 2



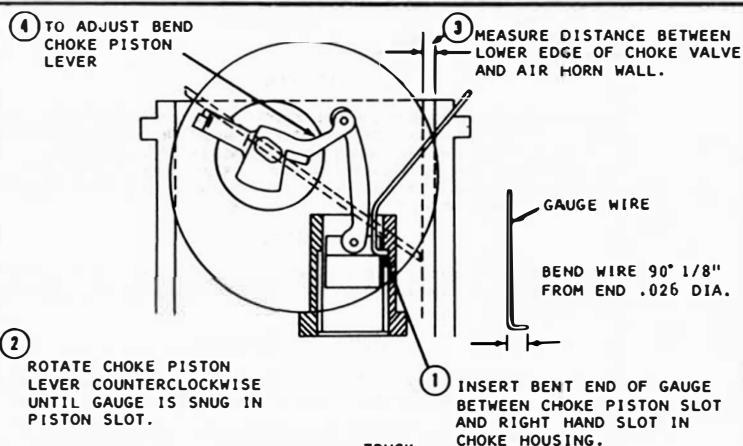
METERING ROD ADJUSTMENT

FIG. 3



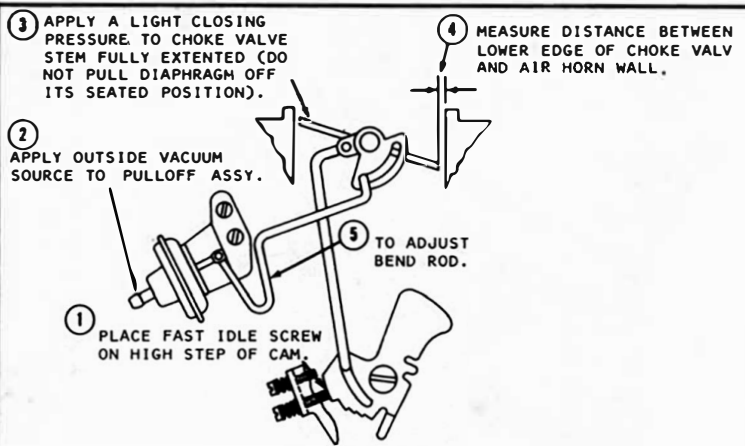
FAST IDLE CAM ADJUSTMENT

FIG. 4



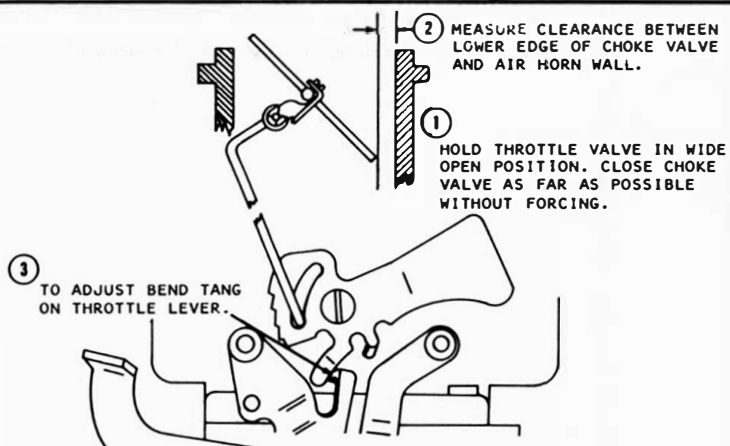
TRUCK CHOKE VALVE PULLDOWN ADJUSTMENT

FIG. 5



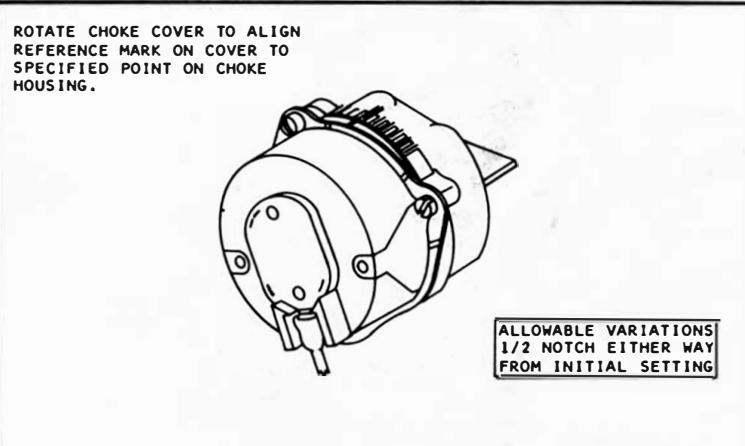
CHOKE PULLDOWN ADJUSTMENT

FIG. 6



UNLOADER ADJUSTMENT

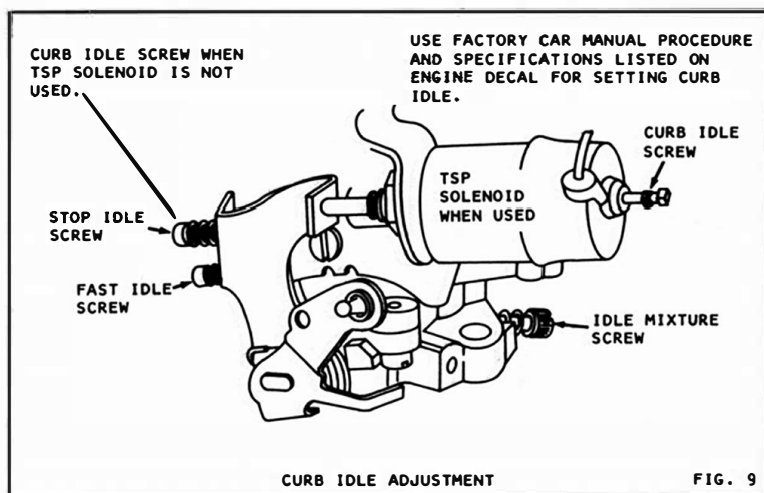
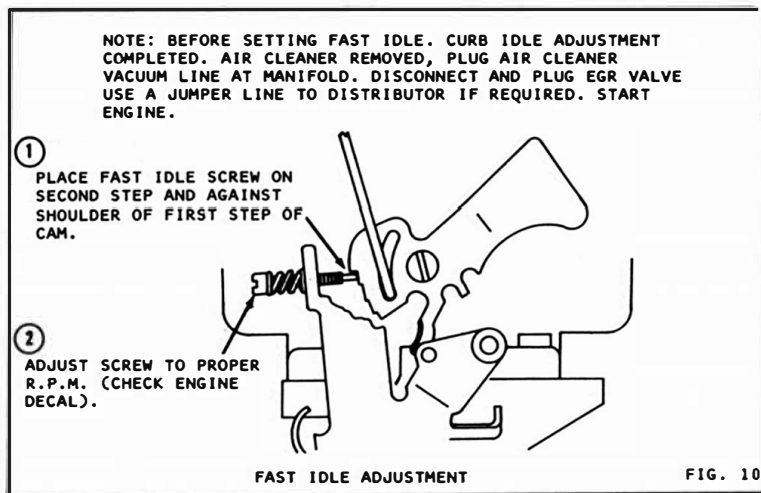
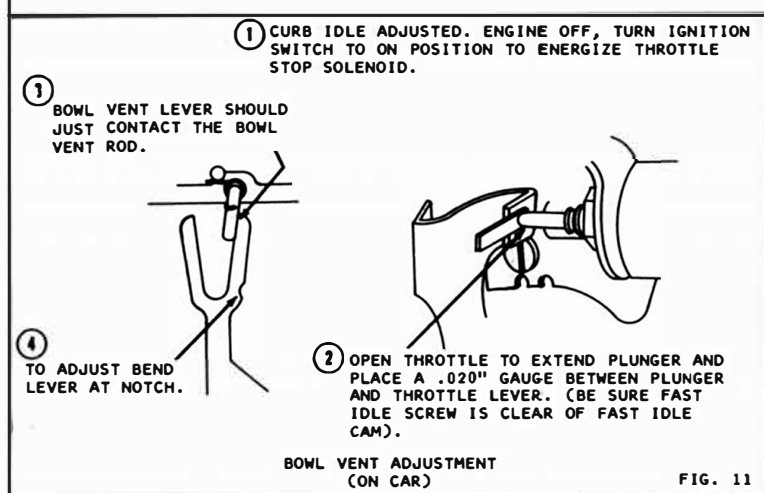
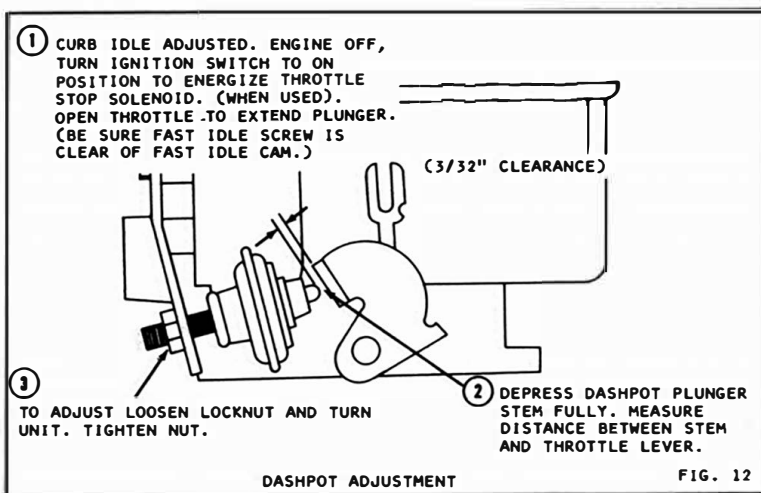
FIG. 7



AUTOMATIC CHOKE ADJUSTMENT

FIG. 8

# ADJUSTMENTS



## ADJUSTMENT DATA TABLE

| YEAR    | APPLICATION                                                   |       | DRY<br>FLOAT<br>LEVEL | FLOAT<br>DROP | FAST<br>IDLE<br>CAM | CHOKE<br>VALVE<br>PULDOWN | UNLOADER | AUTO<br>CHOKE<br>SETTING |
|---------|---------------------------------------------------------------|-------|-----------------------|---------------|---------------------|---------------------------|----------|--------------------------|
| 1978    | FAIRMONT/ZEPHYR 200" ENG.<br>FED.                             | M/T   | 25/32"                | 1 19/32"      | .140                | .180                      | .250     | 1-RICH                   |
| 1978    | GRANADA/MONARCH 250" ENG.<br>FED.                             | M/T   | 26/32"                | 1 19/32"      | .140                | .230                      | .250     | 2-RICH                   |
|         | FED.                                                          | A/T   | 26/32"                | 1 19/32"      | .140                | .200                      | .250     | 2-RICH                   |
|         | CALIF.                                                        | A/T   | 26/32"                | 1 19/32"      | .140                | .230                      | .250     | INDEX                    |
|         | CALIF. W/AC                                                   | A/T   | 26/32"                | 1 19/32"      | .140                | .230                      | .250     | 2-RICH                   |
| 1978    | FORD TRUCK 300" ENG.<br>W/CARB. MODEL YFA<br>W/CARB. MODEL YF | ALL/T | 26/32"                | 1 19/32"      | .140                | .230                      | .280     | INDEX                    |
|         | CALIF. F&E 350                                                | ALL/T | 6/8"                  | 1 1/2"        | 5/16"               | ----                      | 7/84"    | 1-RICH                   |
|         | CALIF. WITH M/C                                               | M/T   | 5/8"                  | 1 1/2"        | ----                | ----                      | ----     | MANUAL                   |
| 1979    | FAIRMONT/ZEPHYR 200" ENG.<br>FED.                             | M/T   | 25/32"                | 1 19/32"      | .140                | .180                      | .250     | 1-RICH                   |
| 1979    | GRANADA/MONARCH 250" ENG.<br>FED.                             | M/T   | 26/32"                | 1 19/32"      | .140                | .230                      | .250     | 1-RICH                   |
|         | FED.                                                          | A/T   | 26/32"                | 1 19/32"      | .140                | .280                      | .250     | 1-RICH                   |
|         | CALIF.                                                        | A/T   | 26/32"                | 1 19/32"      | .140                | .230                      | .250     | 1-RICH                   |
| 1979    | FORD TRUCK 300" ENG.<br>E. F. 100, 150, 250                   | ALL/T | 11/16"                | 1 1/2"        | .140                | .230                      | .280     | INDEX                    |
|         | E. F. 150 CALIF.                                              | M/T   | 11/16"                | 1 1/2"        | .140                | .230                      | .280     | INDEX                    |
|         | F. 250 CALIF.                                                 | A/T   | 11/16"                | 1 1/2"        | .140                | .230                      | .280     | INDEX                    |
|         | E. F. 350                                                     | ALL/T | 11/16"                | 1 1/2"        | .140                | .280                      | .280     | INDEX                    |
|         | B. F. F. 600                                                  | M/T   | 11/16"                | 1 1/2"        | ----                | ----                      | ----     | MANUAL                   |
| 1980-84 | FORD TRUCK 4.9L ENG.                                          |       |                       |               |                     |                           |          |                          |
|         | F100/150 48S                                                  | ALL/T | 11/16"                | 1 1/2"        | .140                | .230                      | .280     | 2-RICH                   |
|         | E100/150 48S                                                  | M/T   | 11/16"                | 1 1/2"        | .140                | .230                      | .280     | INDEX                    |
|         | E100/150 50S                                                  | A/T   | 11/16"                | 1 1/2"        | .140                | .230                      | .280     | 2-RICH                   |
|         | F250 50S                                                      | ALL/T | 11/16"                | 1 1/2"        | .140                | .230                      | .280     | 2-RICH                   |
|         | E250 48S                                                      | M/T   | 11/16"                | 1 1/2"        | .140                | .280                      | .280     | INDEX                    |
|         | E250 50S                                                      | A/T   | 11/16"                | 1 1/2"        | .140                | .230                      | .280     | 2-RICH                   |
|         | F100/150 CALIF.                                               | ALL/T | 11/16"                | 1 1/2"        | .140                | .230                      | .280     | INDEX                    |
|         | E150 CALIF.                                                   | M/T   | 11/16"                | 1 1/2"        | .140                | .230                      | .280     | INDEX                    |
|         | OVER 8500# G.V.W.<br>F & E350 50S                             | ALL/T | 11/16"                | 1 1/2"        | .140                | .280                      | .280     | INDEX                    |

4.9L = 300" ENG.

REV. 1085