

# INSTRUCTION SHEET

## OFF VEHICLE CARBURETOR SERVICE

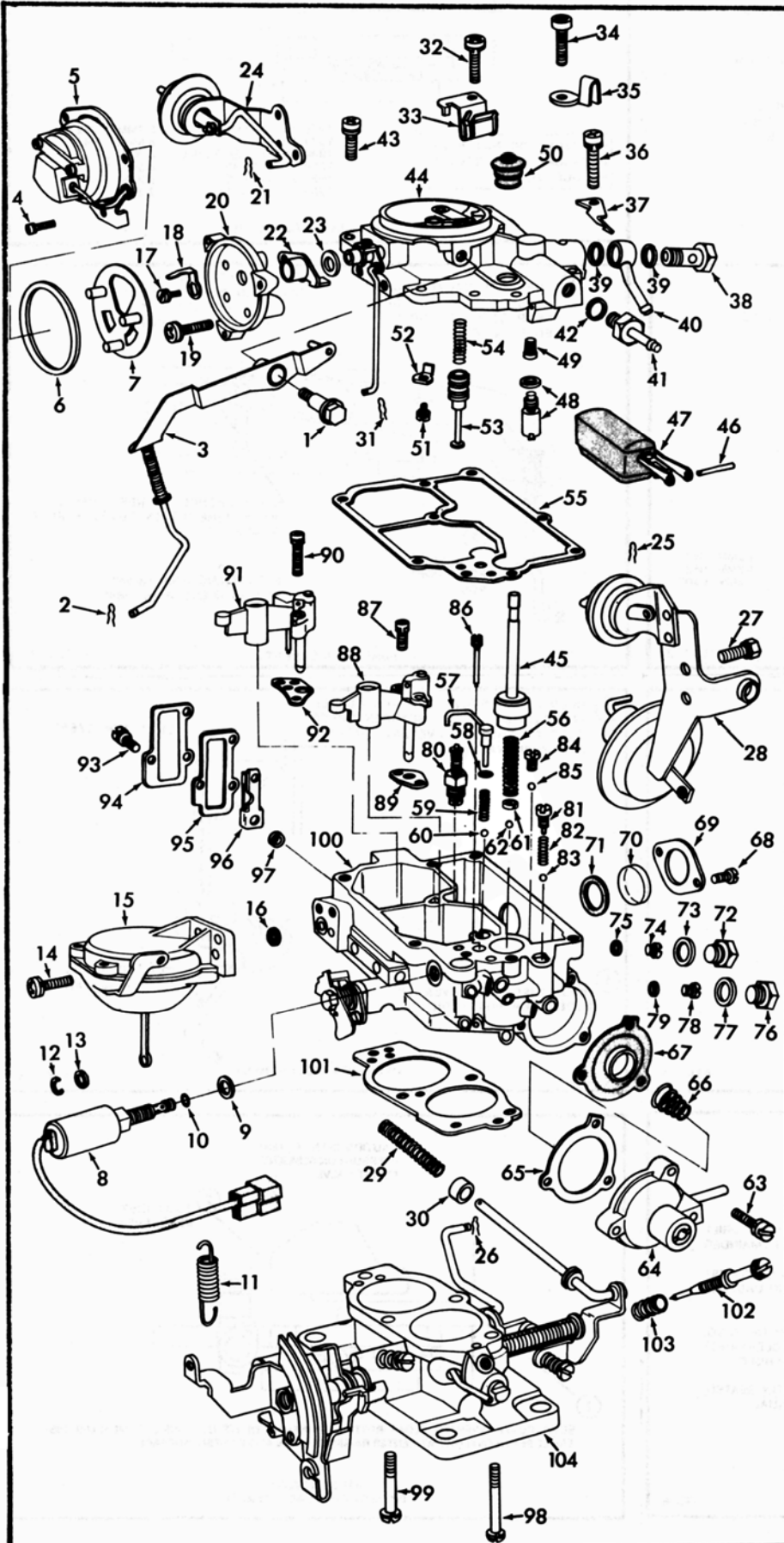
50-520-4

### AISAN 2 BARREL

TOYOTA 2TC,3TC,1A-C,2A,3A,ENGINES

#### 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. NOTE: DISASSEMBLY OF  
SECONDARY VACUUM UNIT (15) IS NOT NECESSARY UNLESS  
DIAPHRAGM IS BEING REPLACED. (1981 SEE FIG.6)

#### NOMENCLATURE

| REF.<br>NO.                                         | REF.<br>NO.                                            |
|-----------------------------------------------------|--------------------------------------------------------|
| 1. SCREW- PUMP LEVER.                               | 52. RETAINER- PISTON.                                  |
| 2. RETAINER- PUMP ROD.                              | 53. PISTON- POWER VALVE.                               |
| 3. LEVER & CONNECTING ROD<br>ASSY.-PUMP.            | 54. SPRING- POWER PISTON.                              |
| 4. SCREW & LOCKWASHER (3)-<br>RETAINER CHOKE COVER. | 55. GASKET- BOWL COVER.                                |
| 5. CHOKE COVER & RETAINER<br>ASSY.                  | 56. SPRING PUMP RETURN.                                |
| 6. GASKET- CHOKE COVER.                             | 57. JET- PUMP.                                         |
| 7. PLATE- CHOKE BAFFLE.                             | 58. O-RING- PUMP JET.                                  |
| 8. SOLENOID- IDLE CUT OFF.                          | 59. SPRING- PUMP DISC. BALL                            |
| 9. GASKET- SOLENOID.                                | 60. BALL- PUMP DISC. CHECK<br>(LARGE).                 |
| 10. O-RING- SOLENOID.                               | 61. RETAINER- INTAKE CHECK<br>BALL.                    |
| 11. SPRING- SEC. RETURN.                            | 62. BALL- INTAKE CHECK<br>(SMALL).                     |
| 12. RETAINER- SEC. DIAPHRAGM<br>LINK.               | 63. SCREW & LOCKWASHER (3)-<br>AUX. PUMP COVER.        |
| 13. WASHER- SEC. DIAPHRAGM<br>LINK.                 | 64. COVER- AUX. PUMP<br>DIAPHRAGM.                     |
| 14. SCREW & WASHERS (2)- SEC.<br>DIAPHRAGM.         | 65. GASKET- AUX. PUMP COVER.                           |
| 15. SECONDARY DIAPHRAGM ASSY.                       | 66. SPRING- AUX. PUMP<br>DIAPHRAGM.                    |
| 16. GASKET- SEC. DIAPHRAGM<br>ASSY.                 | 67. DIAPHRAGM- AUX. PUMP.                              |
| 17. SCREW & WASHER- CHOKE<br>SHAFT ARM.             | 68. SCREW (2)- RETAINER<br>SIGHT GLASS.                |
| 18. ARM- CHOKE SHAFT.                               | 69. RETAINER- SIGHT GLASS.                             |
| 19. SCREW & LOCKWASHER (3)-<br>CHOKE HOUSING.       | 70. SIGHT GLASS.                                       |
| 20. HOUSING- CHOKE.                                 | 71. O-RING- SIGHT GLASS SEAL.                          |
| 21. RETAINER- CHOKE PULL OFF<br>LINK.               | 72. PLUG- SEC. MAIN JET.                               |
| 22. LEVER- CHOKE PULL OFF<br>LINK.                  | 73. GASKET- PLUG.                                      |
| 23. WASHER- LEVER SPACER.                           | 74. JET- SEC. MAIN (CHROME).                           |
| 24. CHOKE PULL OFF ASSY.                            | 75. GASKET- SEC. MAIN JET.                             |
| 25. RETAINER- AUX. PULL OFF<br>LINK.                | 76. PLUG- PRI. MAIN JET.                               |
| 26. RETAINER- THROTTLE<br>POSITIONER LINK.          | 77. GASKET- PLUG.                                      |
| 27. SCREW & LOCKWASHER (2)-<br>BRACKET.             | 78. JET- PRI. MAIN<br>(BRASS).                         |
| 28. AUX. PULL OFF & THROTTLE<br>POSITIONER ASSY.    | 79. GASKET- PRI. MAIN JET.                             |
| 29. SPRING- THROTTLE RETURN.                        | 80. POWER VALVE ASSY.                                  |
| 30. CUP RETAINER- SPRING.                           | 81. PLUG- AUX. PUMP CHECK<br>BALL SPRING.              |
| 31. RETAINER- FAST IDLE ROD                         | 82. SPRING- AUX. PUMP CHECK<br>BALL.                   |
| 32. SCREW & LOCKWASHER- WIRE<br>CLAMP.              | 83. BALL- AUX. PUMP DISC.<br>CHECK.                    |
| 33. WIRE CLAMP.                                     | 84. PLUG- AUX. PUMP CHECK<br>BALL.                     |
| 34. SCREW & LOCKWASHER- ROD<br>GUIDE.               | 85. BALL- AUX. PUMP INTAKE<br>CHECK.                   |
| 35. GUIDE- AUX. PULL OFF<br>LINK.                   | 86. JET- IDLE.                                         |
| 36. SCREW & LOCKWASHER- FUEL<br>INLET FITTING LOCK. | 87. SCREW & LOCKWASHER (2)-<br>PRI. VENTURI.           |
| 37. LOCK- FUEL INLET FITTING.                       | 88. PRIMARY VENTURI ASSY.                              |
| 38. BOLT- FUEL INLET FITTING.                       | 89. GASKET- PRIMARY VENTURI.                           |
| 39. GASKET (2)- FUEL INLET<br>FITTING.              | 90. SCREW & LOCKWASHER (2)-<br>SEC. VENTURI.           |
| 40. FITTING- FUEL INLET.                            | 91. SECONDARY VENTURI ASSY.                            |
| 41. FITTING- FUEL BY PASS.                          | 92. GASKET- SECONDARY<br>VENTURI.                      |
| 42. GASKET- BY PASS FITTING.                        | 93. SCREW & LOCKWASHER (3)-<br>COVER.                  |
| 43. SCREW & LOCKWASHER (4)-<br>BOWL COVER.          | 94. COVER- IDLE COMPENSATOR.                           |
| 44. BOWL COVER ASSY.                                | 95. GASKET COVER.                                      |
| 45. PUMP PLUNGER ASSY.                              | 96. VALVE- IDLE COMPENSATOR.                           |
| 46. PIN- FLOAT.                                     | 97. GASKET- IDLE COMPENSATOR<br>VALVE.                 |
| 47. FLOAT ASSY.                                     | 98. SCREW & LOCKWASHER (2)-<br>THROTTLE BODY.          |
| 48. NEEDLE, SEAT & GASKET<br>ASSY.                  | 99. SCREW & LOCKWASHER (2)-<br>THROTTLE BODY (HOLLOW). |
| 49. SCREEN- FUEL FILTER.                            | 100. FLOAT BOWL ASSY.                                  |
| 50. BOOT- PUMP.                                     | 101. GASKET- THROTTLE BODY.                            |
| 51. SCREW & LOCKWASHER-<br>PISTON RETAINER.         | 102. NEEDLE- IDLE ADJ.                                 |
|                                                     | 103. SPRING- IDLE ADJ. NEEDLE.                         |
|                                                     | 104. THROTTLE BODY ASSY.                               |

#### CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. USE  
A CARBURETOR CLEANING SOLVENT. SOAK PARTS LONG ENOUGH TO  
SOFTEN AND REMOVE ALL FOREIGN MATERIAL. MAKE CERTAIN THE  
THROTTLE BORES ARE FREE OF ALL 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  
RUBBER PARTS IN CLEANING SOLVENT, BEING VERY CAREFUL OF  
DIAPHRAGM ASSY'S, (15),(24),(28), ELECTRIC CHOKE COVER  
(5), SOLENOID (8), FLOAT (47), AND IDLE COMPENSATOR  
VALVE (96) WHICH HAVE RUBBER COMPONENTS.

#### REASSEMBLY

REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL  
INSTRUCTIONS AND ADJUSTMENTS.

# ADJUSTMENTS

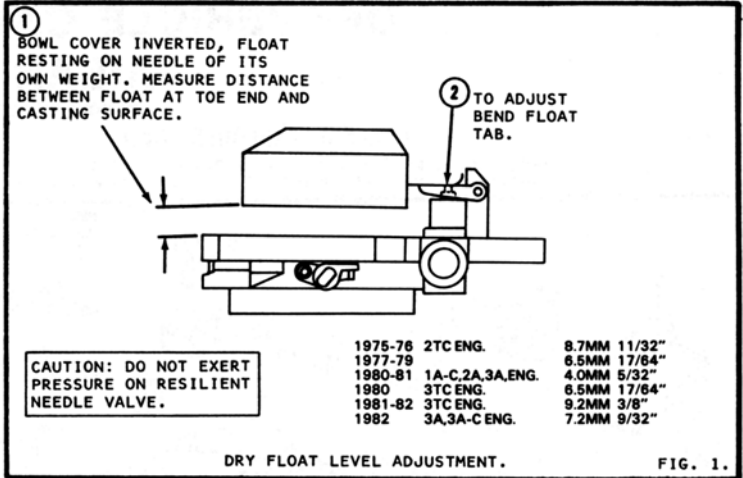
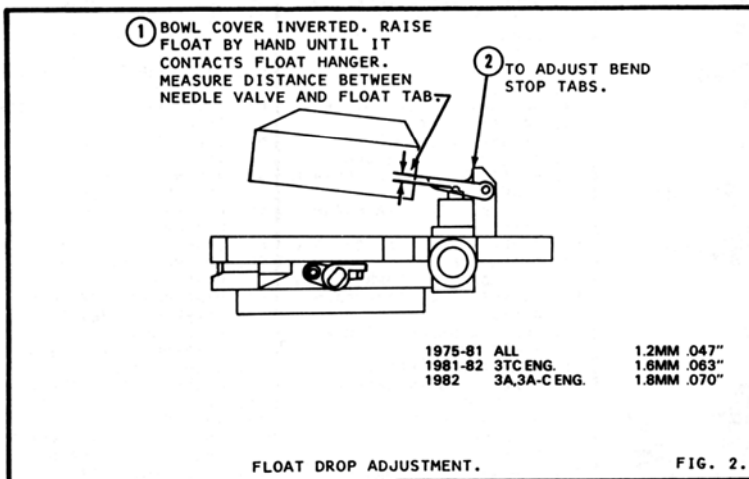
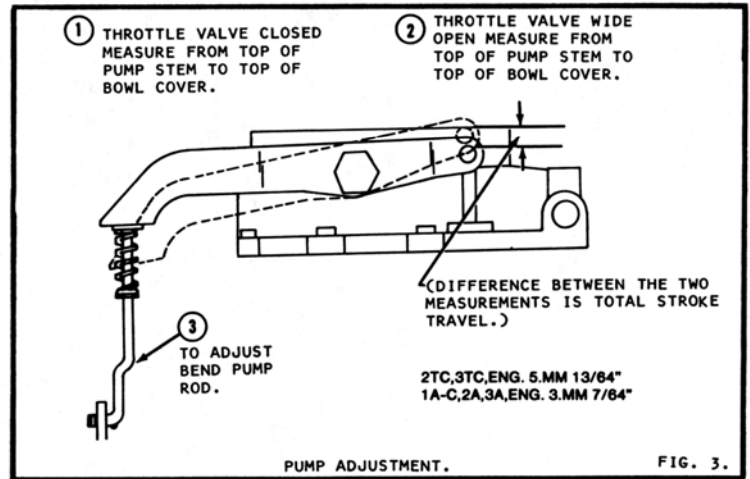
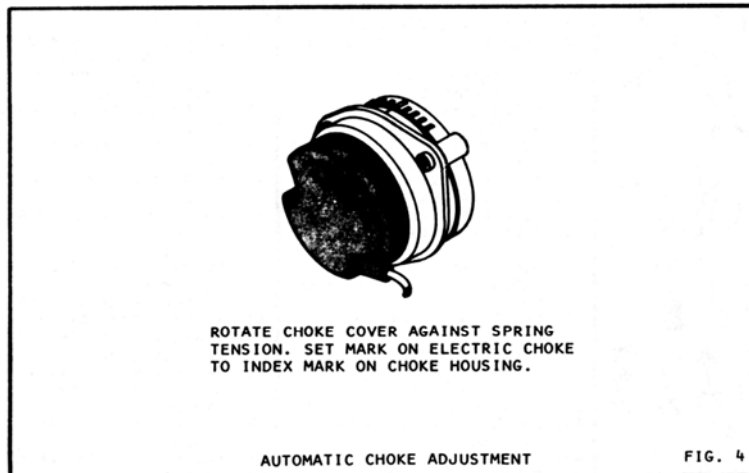
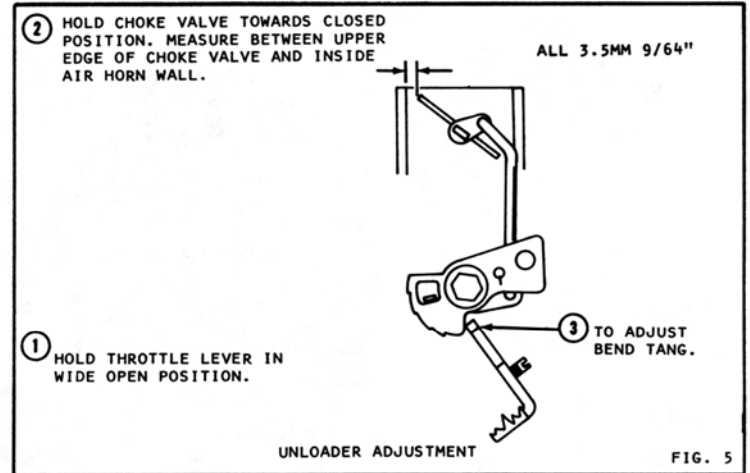
## SPECIAL INSTRUCTIONS

IDLE ADJUSTING NEEDLE (102)- TURN NEEDLE IN UNTIL LIGHTLY SEATED, THEN BACK OUT 2 1/4-2 3/4 TURNS.

PUMP PLUNGER (45)- REMOVE PAPER SLEEVE FROM LEATHER CUP. FLEX LEATHER OUTWARD SLIGHTLY, SOAK CUP IN LIGHT OIL A FEW MINUTES PRIOR TO PLACING IN CARBURETOR.

SIGHT GLASS (70)- INSTALL WITH DOT TO THE INSIDE OF FUEL BOWL.

CHOKE COIL COVER (5)- WHEN INSTALLING BE SURE HOOK ON COIL SPRING IS AGAINST ARM OF CHOKE SHAFT. ROTATE CHOKE COVER AGAINST SPRING TENSION. ALIGN MARK ON COVER WITH INDEX MARK ON HOUSING.



### 1981-82 INFORMATION

TO REMOVE TAMPER RESISTANT SHIELD FROM CHOKE COVER, CAREFULLY DRILL RIVET HEADS OFF. REMOVE CHOKE COMPONENTS THEN KNOCK OUT REMAINDER OF RIVETS.

WHEN INSTALLING CHOKE COVER BE SURE HOOK ON COIL SPRING IS AGAINST ARM OF CHOKE SHAFT. ALIGN NOTCH IN COVER WITH RAISED BOSS IN CASTING. (CHOKE COVER IS NON ADJUSTABLE) INSTALL NEW POP RIVETS.

TO REMOVE IDLE MIXTURE SCREW PLUG. CENTER PUNCH CENTER OF PLUG. CAREFULLY DRILL A .255" HOLE IN PLUG. (NOTE THERE IS ONLY .040" CLEARANCE BETWEEN PLUG AND MIXTURE SCREW.) PRY REMAINDER OF PLUG FROM HOLE.

IDLE ADJUSTING NEEDLE INSTALLATION. TURN NEEDLE IN UNTIL LIGHTLY SEATED, THEN BACK OUT 3 TURNS. FINAL ADJUSTMENT SEE CAR SERVICE MANUAL.

FIG. 6

