

FUEL SYSTEM

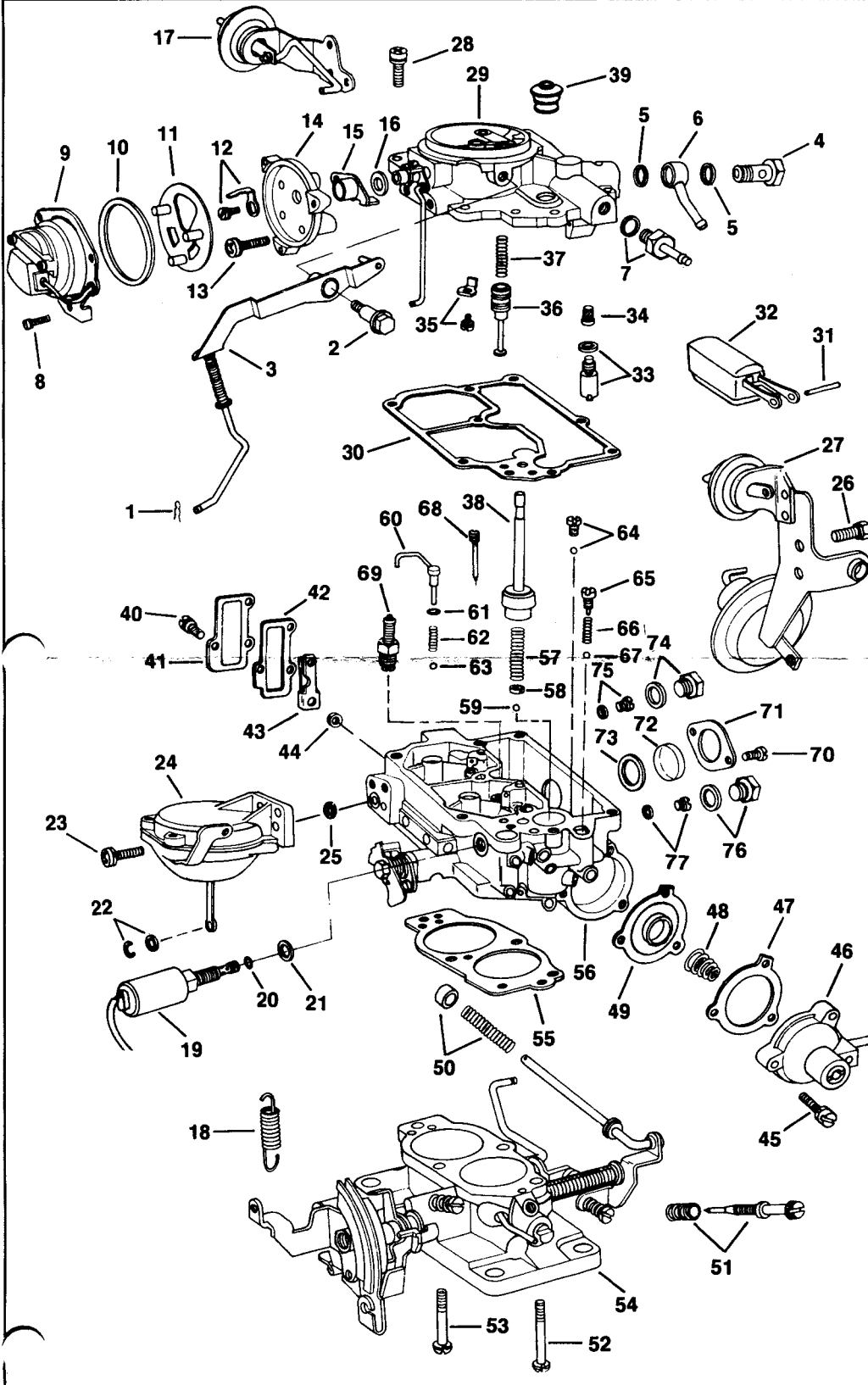
SERVICE INSTRUCTION WORKSHEET

TO REPAIR

GF4562-2

AISAN CARBURETOR

2 BARREL—1.6L, 2TC, 3AC, 3TC,
4AF, 4ALC Engine



1. Carefully read the text in the following pages to become familiar with the contents of this worksheet before performing carburetor overhaul.
2. The exploded view is typical of the model carburetor this kit will service. The view may differ slightly from the actual carburetor being overhauled.
3. Use the exploded view as a guide. The numerical sequence of the parts list may generally be followed to disassemble the carburetor far enough to permit cleaning and inspection.
4. Parts list shown DOES NOT reflect the contents of the kit.
5. Kit may contain extra parts intended for other carburetors within this group. Substitute identical replacement parts for original worn parts found in carburetor.

PARTS LIST

1. Clip, pump rod
2. Bolt, pump lever
3. Pump lever assembly
4. Bolt, fuel inlet fitting
5. Washer, fitting (2)
6. Fitting, fuel inlet
7. Fitting & washer, fuel by-pass
8. Screw, retainer choke cover (3)
9. Thermostatic coil & cover assy.
10. Gasket, choke cover
11. Deflector, choke heat
12. Screw & arm, choke shaft
13. Screw, choke housing (3)
14. Choke housing assembly
15. Lever, choke pull-off rod
16. Washer, lever spacer
17. Choke pull-off assembly
18. Spring, secondary return
19. Solenoid, idle cut-off
20. O-ring, solenoid
21. Washer, solenoid
22. Retainer & washer, sec. diaphragm
23. Screw, secondary diaphragm (2)
24. Secondary diaphragm assembly
25. Seal, secondary diaphragm
26. Screw, auxiliary pull-off (2)
27. Auxiliary pull-off & throttle positioner assy.
28. Screw, air horn (8)
29. Air horn assembly
30. Gasket, air horn
31. Pin, float hinge
32. Float assembly
33. Needle, seat & washer assy.
34. Filter, fuel
35. Screw & retainer, piston
36. Piston, power valve
37. Spring, piston return
38. Pump plunger assembly
39. Boot, pump plunger
40. Screw, cover (3)
41. Cover, idle compensator
42. Gasket, cover
43. Valve, idle compensator
44. Washer, valve
45. Screw, auxiliary pump cover (3)
46. Cover, auxiliary pump
47. Gasket, cover
48. Spring, pump diaphragm
49. Diaphragm, auxiliary pump
50. Retainer & spring, throttle return
51. Needle & spring, idle mixture
52. Screw, throttle body (2)
53. Screw, throttle body (2) hollow
54. Throttle body assembly
55. Gasket, throttle body
56. Main body assembly
57. Spring, pump return
58. Retainer, intake check ball
59. Ball, intake check (small)
60. Jet, pump
61. O-ring, pump jet
62. Spring, pump discharge ball
63. Ball, pump discharge check (large)
64. Plug & ball, aux. pump intake check
65. Plug, spring
66. Spring, auxiliary pump check ball
67. Ball, auxiliary pump discharge
68. Jet, idle
69. Power valve assembly
70. Screw, retainer (2)
71. Retainer, sight glass
72. Sight glass
73. O-ring, sight glass
74. Plug & washer, secondary main jet
75. Jet & washer, secondary main (chrome)
76. Plug & washer, primary main jet
77. Jet & washer, primary main (brass)

REMOVAL & INSTALLATION NOTES

1. Cover opening on intake manifold after carburetor is removed.
2. Do not remove secondary diaphragm assembly (24) unless replacement is needed.
3. If choke cover is retained with rivets rather than screws, carefully drill rivet heads off and knock out remainder of rivets.
4. To remove idle mixture needle plug, if applicable, drill a hole in its center and pry out. **NOTE: There is only .040" clearance between plug and head of needle.**
5. Do not mix similar parts. Record sizes and location for proper installation.
6. Install parts and components in reverse order of removal.
7. Before installing pump plunger (38), remove paper sleeve, flare leather cup, then soak in light oil for a few minutes.
8. When installing idle mixture needle (51), turn in until lightly seated, then back out 2½ - 3 turns.
9. Be sure to install throttle body screw (53) in proper location (vacuum passage for power valve piston).
10. Install sight glass (72) with dot toward inside of fuel chamber.

CLEANING

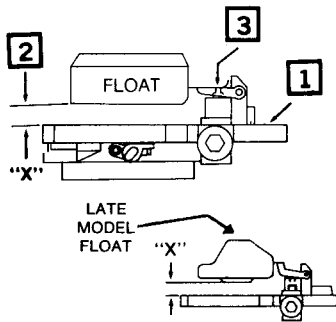
Cleaning must be done with carburetor disassembled. Use spray cleaner and a stiff bristle brush to remove dirt and carbon deposits. Do not use abrasives and wires to clean parts and passageways. Wash off in suitable solvent, and clear all passageways with compressed air.

Caution: When cleaning with solvent do not soak or spray parts containing rubber, leather, plastic and electrical components.

ADJUSTMENT DATA

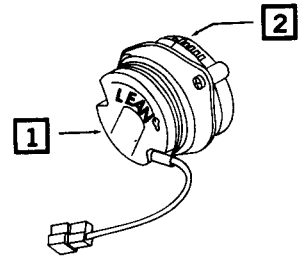
**FIG. A
FLOAT LEVEL
ADJUSTMENT**

1. INVERT AIR HORN ASSY. WITHOUT GASKET & ALLOW FLOAT TO REST ON NEEDLE BY ITS OWN WEIGHT.
 2. MEASURE CLEARANCE "X" AS SPECIFIED (SEE SPEC. CHART) BETWEEN TOP OF FLOAT & PARTING SURFACE OF AIR HORN CASTING.
 3. TO ADJUST, BEND FLOAT CENTER TANG AS NEEDED.
- CAUTION:** DO NOT ALLOW NEEDLE TO EXERT PRESSURE ON SEAT EXCEPT OF ITS OWN WEIGHT.



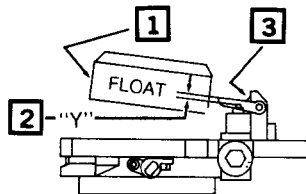
**FIG. D
AUTO CHOKE
ADJUSTMENT**

1. INSTALL CHOKE COVER SO AS TO MAINTAIN CHOKE VALVE IN A SPRING-LOADED CLOSED POSITION.
2. ALIGN MARK ON CHOKE COVER WITH INDEX MARK ON CHOKE HOUSING SCALE.



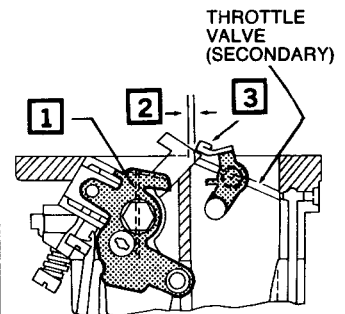
**FIG. B
FLOAT DROP
ADJUSTMENT**

1. INVERT AIR HORN ASSY. WITHOUT GASKET & LIFT FLOAT BY HAND UNTIL BOTH TABS CONTACT STOPS.
2. MEASURE CLEARANCE "Y" AS SPECIFIED (SEE SPEC. CHART) BETWEEN NEEDLE VALVE & CENTER TANG AS SHOWN.
3. TO ADJUST, BEND BOTH FLOAT TABS EQUALLY AS REQUIRED.



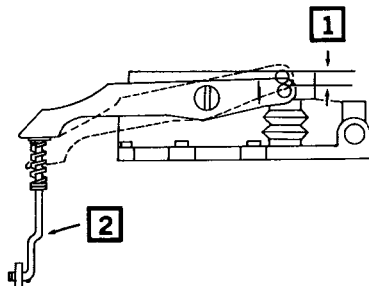
**FIG. E
KICK-UP SETTING
ADJUSTMENT**

1. FULLY OPEN PRIMARY THROTTLE VALVE.
2. MEASURE CLEARANCE BETWEEN EDGE OF SECONDARY THROTTLE VALVE AND BODY USING A GAUGE OR DRILL BIT. IT SHOULD BE AS SPECIFIED.
3. TO ADJUST, BEND TANG ON SECONDARY THROTTLE LEVER.



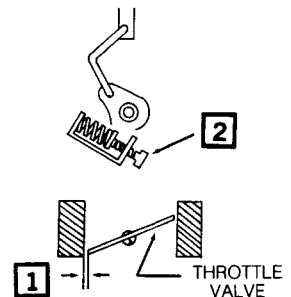
**FIG. C
PUMP STROKE
ADJUSTMENT**

1. MOVE THROTTLE VALVE TO CLOSED POSITION. MEASURE FROM TOP OF AIR HORN TO TOP OF PUMP STEM, RECORD. NEXT, POSITION THROTTLE VALVE WIDE. AGAIN MEASURE FROM TOP OF AIR HORN TO TOP OF PUMP STEM. DIFFERENCE BETWEEN RECORDED MEASUREMENT ABOVE & LAST MEASUREMENT IS THE LENGTH OF PUMP STROKE TRAVEL AS SPECIFIED (SEE SPEC. CHART).
2. IF ADJUSTMENT IS REQUIRED, BEND PUMP ROD WHERE SHOWN.



**FIG. F
FAST IDLE (BENCH)
ADJUSTMENT**

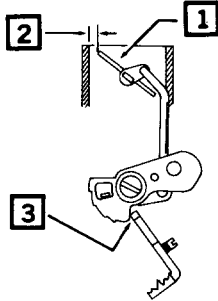
1. ROTATE CHOKE VALVE (NOT SHOWN) TO FULLY CLOSED POSITION. MEASURE AS SPECIFIED (SEE SPEC. CHART) USING A DRILL BIT OR GAUGE BETWEEN PRIMARY THROTTLE VALVE & CARBURETOR BORE.
2. TO ADJUST, TURN FAST IDLE SCREW AS NEEDED.



ADJUSTMENT DATA (CONT'D)

G CHOKER ADJUSTMENT

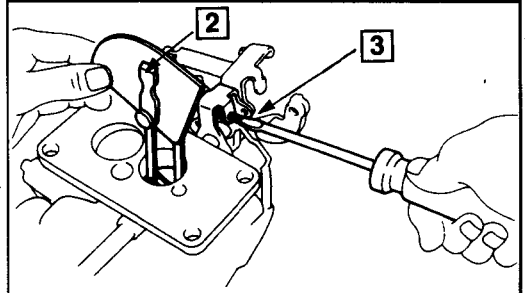
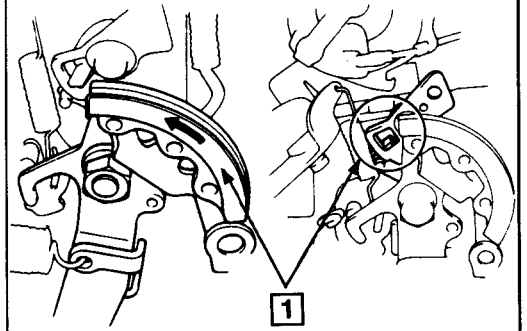
1. MAINTAIN THROTTLE VALVE IN WIDE OPEN POSITION WHILE HOLDING CHOKE VALVE TOWARDS CLOSED POSITION.
2. MEASURE AS SPECIFIED (SEE SPEC. CHART) BETWEEN WALL OF AIR HORN & UPPER EDGE OF CHOKE VALVE.
3. IF ADJUSTMENT IS REQUIRED, BEND TANG ON THROTTLE LEVER.



NOTE: IF ANGLE MEASUREMENT IS GIVEN, ADJUST ANGLE OF CHOKE VALVE AS SPECIFIED WHEN PRIMARY THROTTLE IS WIDE OPEN. TO ADJUST, BEND FAST IDLE CAM FOLLOWER OR CHOKE SHAFT LIP.

FIG. H FAST IDLE SETTING ADJUSTMENT

1. SET THROTTLE SHAFT LEVER TO THE FIRST STEP OF FAST IDLE CAM.
2. WITH CHOKE VALVE FULLY CLOSED, MEASURE CLEARANCE BETWEEN PRIMARY THROTTLE VALVE AND BODY, OR MEASURE ANGLE OF PRIMARY THROTTLE VALVE.
3. TO ADJUST, TURN FAST IDLE ADJUSTING SCREW AS NEEDED.



SPECIFICATIONS BY APPLICATION¹

Year	Application	Float Level Fig. A	Float Drop Fig. B	Pump Stroke Fig. C	Kick-up Setting Fig. E	Fast Idle Fig. F	Unloader Fig. G	Fast Idle Fig. H
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TOYOTA — SPECIFICATION I.D.-A

1979-77	2TC Eng.	6.5 ²	1.2	5.0	0.2	1.1	47°	—
1976-75		3.5	1.2	5.0	0.2	1.1	47°	—

CHEVROLET — SPECIFICATION I.D.-B

1988-85	1.6L Eng.	7.0	1.8	2.0	0.15	—	3.0	1.1
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TOYOTA — SPECIFICATION I.D.-B

1988-84	Corolla -4AC Eng.	7.2	1.8	4.0	0.11 - 0.22	—	41°	20°
	-4AF, 4ALC Eng.	7.2	1.8	2.0	0.11 - 0.22	—	41°	20°
1983	Corolla -4AC Eng.	7.2	1.8	4.0	0.11 - 0.22	—	41°	20°
1982-80	Corolla -3TC Eng.	9.1	1.5	5.0	—	—	47°	25°
	Terrel -3AC Eng.	7.2	1.5	3.0	0.11 - 0.22	—	47°	22°

FOOTNOTES:

¹ Dimensions are given in millimeters.

² 1977 models set 6.0mm.