

FUEL SYSTEM

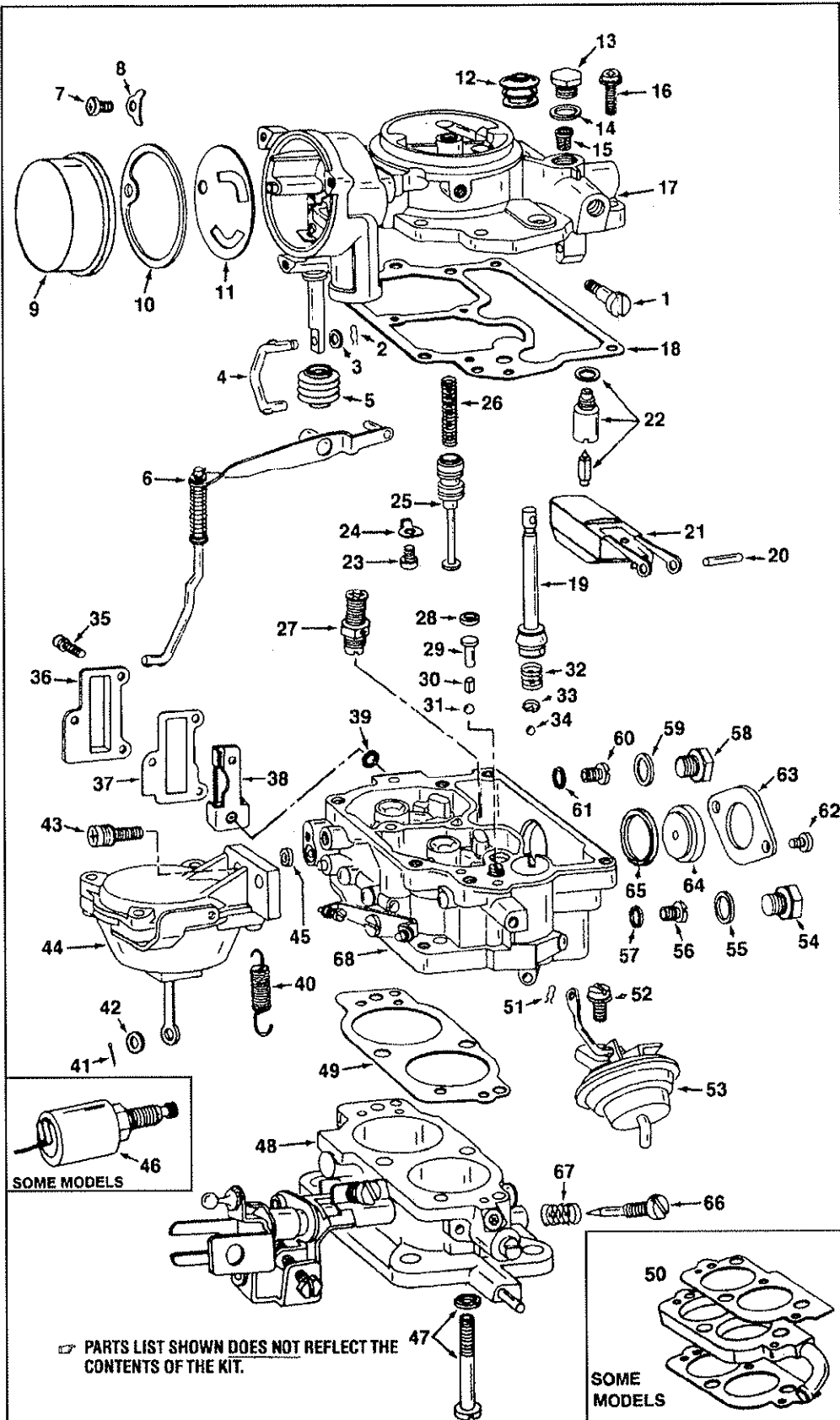
SERVICE INSTRUCTION WORKSHEET

TO REPAIR

GF3711-4

AISAN CARBURETOR

2 BARREL



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. Screw, pump lever
2. Clip, fast idle link
3. Washer, fast idle link
4. Link, fast idle
5. Boot, fast idle rod
6. Lever & rod assy., pump
7. Screw, choke cover retainer (3)
8. Retainer, choke cover (3)
9. Thermostatic coil & cover assy.
10. Gasket, choke cover
11. Baffle, choke cover
12. Boot, pump plunger
13. Plug, fuel filter
14. Washer, plug
15. Filter, fuel
16. Screw, air horn (6)
17. Air horn assy.
18. Gasket, air horn
19. Pump, plunger assy.
20. Pin, float hinge
21. Float assy.
22. Needle, seat & washer assy.
23. Screw, piston retainer
24. Retainer, power piston
25. Power, piston assy.
26. Spring, piston return
27. Power valve assy.
28. Washer, stopper
29. Stopper, pump passage
30. Weight, discharge ball
31. Ball, pump discharge (big)
32. Spring, pump return
33. Retainer, intake ball
34. Ball, intake check (small)
35. Screw, cover (3)
36. Cover, idle compensator valve
37. Gasket, cover
38. Valve assy., idle compensator
39. O-ring, idle compensator valve
40. Spring, secondary return
41. Cotter pin, secondary diaphragm link
42. Washer, secondary diaphragm link
43. Screw, secondary diaphragm (2)
44. Secondary diaphragm assy.
45. Washer, diaphragm assy.
46. Solenoid, idle cut-off
47. Screw & washer, throttle body (4)
48. Throttle body assy.
49. Gasket, throttle body
50. Gaskets & insulator block
51. Clip, throttle positioner link
52. Screw, throttle positioner
53. Throttle positioner assy.
54. Plug, primary jet
55. Washer, plug
56. Primary main jet
57. Washer, primary jet
58. Plug, secondary jet
59. Washer, plug
60. Secondary main jet
61. Washer, secondary jet
62. Screw, sight glass retainer (2)
63. Retainer, sight glass
64. Sight glass, fuel level
65. O-ring, sight glass
66. Needle valve, idle mixture
67. Spring, needle valve
68. Main body assy.

PARTS LIST SHOWN DOES NOT REFLECT THE CONTENTS OF THE KIT.

REMOVAL & INSTALLATION NOTES

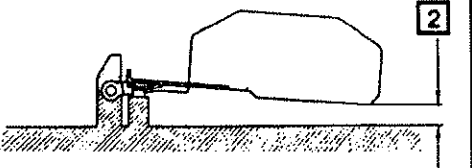
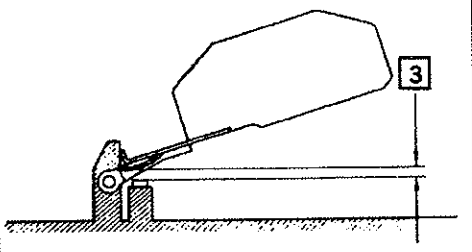
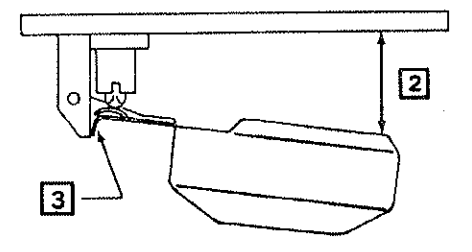
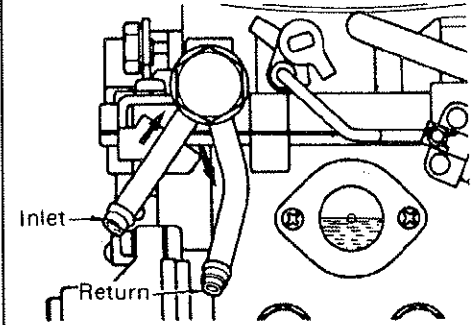
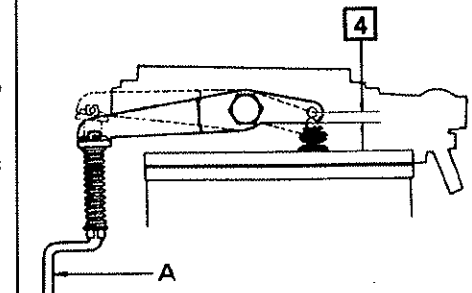
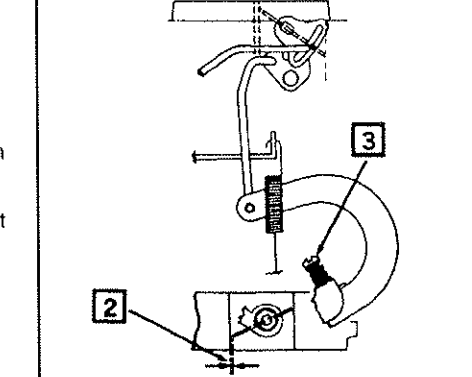
1. Cover opening on intake manifold after carburetor is removed.
2. It is not necessary to remove secondary diaphragm assy. (44) unless it needs to be replaced.
3. If carburetor is equipped with insulator block (50), and gaskets are damaged or worn, it will be necessary to scrape off old gaskets. *Exercise care.*
4. When removing jets (56, 60), record sizes for proper installations.
5. Before removing idle mixture needle (66), turn in until seated counting number of turns. Record for proper installation and initial setting.
6. Install parts in reverse order of removal.
7. Before installing pump plunger assy. (19), flare leather cup, then soak in light oil for a few minutes.
8. Be sure to install different length screws in original locations.
9. Install sight glass (64) 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.

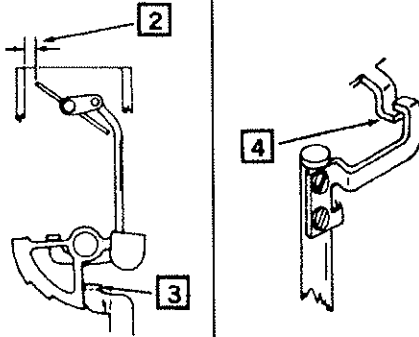
ADJUSTMENT DATA

<p>FIG. 1 FLOAT LEVEL ADJUSTMENT</p> <ol style="list-style-type: none"> 1. Invert air horn and remove gasket. 2. With float center tab slightly touching spring loaded needle, measure distance as shown between end of float and air horn surface. It should be as specified. 3. To adjust, bend center tab as necessary. 	<p>CAUTION: DO NOT EXERT PRESSURE ON RESILIENT NEEDLE VALVE.</p> 	<p>FIG. 2 FLOAT DROP ADJUSTMENT</p> <ol style="list-style-type: none"> 1. Invert air horn and remove gasket. 2. Raise float gently by hand until it stops. 3. Measure distance between top of needle valve and float center tab. 4. To adjust, bend outer tabs as necessary. 	
<p>FIG. 3 FLOAT DROP ADJUSTMENT (Early Models)</p> <ol style="list-style-type: none"> 1. Hold air horn upright without gasket. 2. With float hanging free, measure distance as shown between end of float and air horn surface. It should be as specified. 3. To adjust, bend outer tabs as necessary. 		<p>FIG. 4 FLOAT LEVEL (Wet)</p> <ol style="list-style-type: none"> 1. With vehicle leveled and engine in operating temperature, recheck fuel level through sight glass. 2. Fuel level should be within marked tolerance (dot). 3. To adjust, repeat step 3, FIG. 1. 	
<p>FIG. 5 PUMP STROKE ADJUSTMENT</p> <ol style="list-style-type: none"> 1. With throttle valve closed, measure distance between top of pump plunger to top of air horn. Record. 2. With throttle valve wide open, measure distance as in step 1. Record. 3. The difference between the two measurements is total stroke travel. It should be as specified. 4. To adjust, bend pump rod 'A'. 		<p>FIG. 6 FAST IDLE ADJUSTMENT</p> <ol style="list-style-type: none"> 1. Hold choke valve fully closed. 2. Measure distance between lower edge of primary throttle valve and wall, using a gauge or drill bit. It should be as specified. 3. To adjust, turn fast idle adjusting screw. 	

ADJUSTMENT DATA (Cont'd)

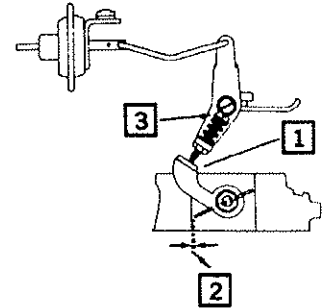
**FIG. 7
UNLOADER
ADJUSTMENT**

1. Hold throttle valve in wide open position.
2. Hold choke valve toward closed position and measure distance between upper edge of choke valve and inner wall of air horn using a gauge or drill bit. On some models measure choke valve opening angle. It should be as specified.
3. To adjust, bend tang.
4. Some early applications bend tang here.



**FIG. 8
THROTTLE POSITIONER
ADJUSTMENT**

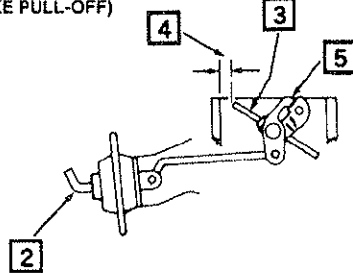
1. Check that throttle positioner screw is making contact with positioner stop.
2. Measure distance between lower edge of throttle valve and wall, using a gauge or drill bit. It should be as specified.
3. To adjust, turn throttle positioner screw.



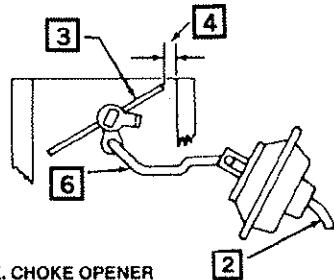
**FIG. 9
VACUUM BREAK &
AUX. CHOKE
OPENER
ADJUSTMENT**

1. Place fast idle arm on high step of fast idle cam.
2. Apply outside vacuum source until diaphragm is fully seated.
3. Hold choke valve toward closed position. Make sure not to pull diaphragm.
4. Measure distance between upper edge of choke valve and inner wall of air horn using a gauge or drill bit. On some models measure choke valve opening angle. It should be as specified.
5. To adjust vacuum break, bend tab.
6. To adjust aux. choke opener, bend link.

**VACUUM BREAK
(CHOKE PULL-OFF)**

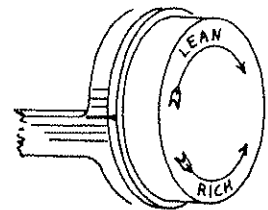


AUX. CHOKE OPENER



**FIG. 10
AUTOMATIC
CHOKE SETTING**

1. Rotate thermostatic coil and cover assy. against coil tension.
2. Align mark on center with index mark on housing.
3. Allowable tolerance is two notches either side from initial setting.



SPECIFICATION CHART¹

Year	Application	Float Level (Dry)	Float Drop	Pump Stroke	Fast Idle Adj.	Unloader	Throttle Positioner	Vacuum Break (Choke Pull-Off)	Aux. Choke Opener	Idle Speed R.P.M.	
										Slow	Fast
1987-81	2F Eng.	7.5	1.1	9.5	1.3	—	0.8	38°	—	675	1800
1980-78	2F Eng.	7.5	1.1	9.5	1.3	—	0.8	38°	—	675	1800
	20R Eng.	7.1	1.0	4.5	1.2	50°	6	38°	50°	850 ⁸	2400 ⁹
1977-76	2F Eng.	7.5	1.1	9.5	1.3	—	0.8	38°	—	675	1800
	20R Eng.	7.1	1.0	4.5	1.2	2.8	6	4.7 ⁷	2.0 ⁷	850	2400 ⁹
1975	FA, FJ Eng.	4.1 ¹¹	1.0 ¹⁰	8.0	1.2	—	0.8	38°	—	650	1800 ¹²
	2F Eng.	7.5	1.1	9.5	1.3	—	0.8	38°	—	675	1800
1974-73	20R Eng.	7.1	1.0	4.5	1.2	2.8	6	4.7 ⁷	2.0 ⁷	850	2400 ⁹
	FA, FJ Eng.	4.1 ¹¹	1.0 ¹⁰	8.0	1.2	—	0.8	38°	—	650	1800 ¹²
1972	18RC Eng.	5.0	1.0	4.5	1.04	3.1 ⁵	—	—	—	4	—
	18RC Eng.	5.0	1.0	4.5	1.04	3.1 ⁵	—	—	—	4	—
1970-68	3RC Eng.	9.3	22.0 ²	3.5	1.0	3.1	—	—	—	3	—

FOOTNOTES:

- ¹ Dimensions are in millimeters.
- ² See adjustment data, Fig. 3.
- ³ A/T 650 R.P.M.; M/T 750 R.P.M.
- ⁴ A/T 800 R.P.M.; M/T 650 R.P.M.
- ⁵ If angle gauge is available, adjust choke valve to 47°.
- ⁶ A/T 0.5mm; M/T 0.6mm.
- ⁷ 1977 models set vacuum break 5.5mm and aux. opener 2.8mm.
- ⁸ 1980 models with M/T set 700 R.P.M.
- ⁹ With EGR disconnected and both throttle & choke valves closed.
- ¹⁰ An option adjustment: Refer to fig. 3 and set 20mm.
- ¹¹ Old FA Eng. set 8.0mm; old FJ Eng. set 5.8mm.
- ¹² 1975 models only.

ABBREVIATIONS:

- A/T Automatic Transmission
M/T Manual Transmission