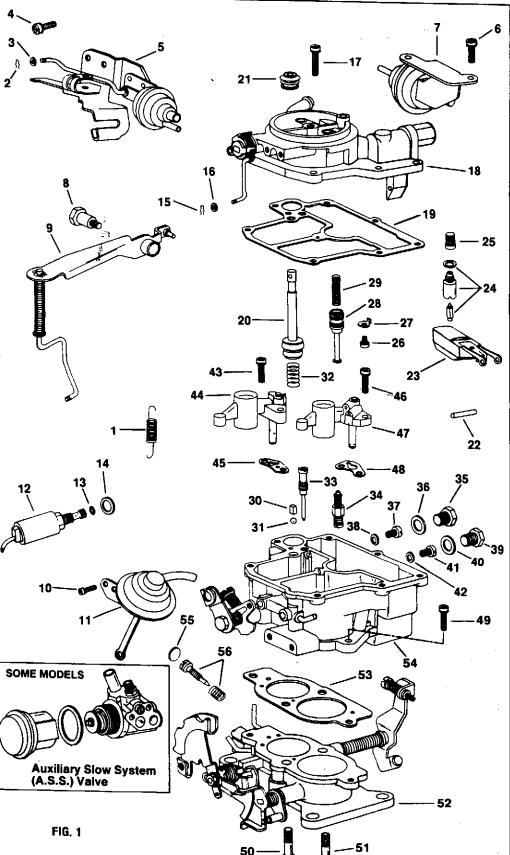
# FUEL SYSTEM

## SERVICE INSTRUCTION WORKSHEET

### TO REPAIR

AISAN CARBURETOR

2 BARREL



- Carefully read the text in the following pages to become fa-miliar with the contents of this worksheet <u>before</u> performing
- The exploded view is typical of the model carburetor this kit will service. The view may differ slightly from the actual carburetor being overhauled.
- 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.
- Kit may contain extra parts intended for other carburetors within this group. Substitute identical replacement parts for original worn parts found in carburetor.

#### 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.

#### **PARTS LIST**

- 1. Spring, sec. throttle return
  2. Clip, choke pull-off rod
  3. Washer, choke pull-off rod
  4. Screw, choke pull-off (2)
  5. Choke pull-off assembly
  6. Screw, positioner (2)
  7. Positioner assembly
  8. Screw, pump lever
  9. Pump lever assembly
  10. Screw, secondary diaphragm
  11. Secondary diaphragm assy.
  12. Solenoid, idle cut-off
  13. O-ring, solenoid
  14. Washer, solenoid
  15. Clip, fast idle rod
  16. Washer, fast idle rod
  17. Screw, air horn (5)

- 17. Screw, air horn (5)
- 18. Air horn assembly
- 19. Gasket, air horn
- 20. Pump plunger assembly 21. Boot, pump plunger
- 22. Pin, float hinge
- 23. Fuel float assembly
- 24. Needle, seat & washer assy.
- 25. Filter, fuel

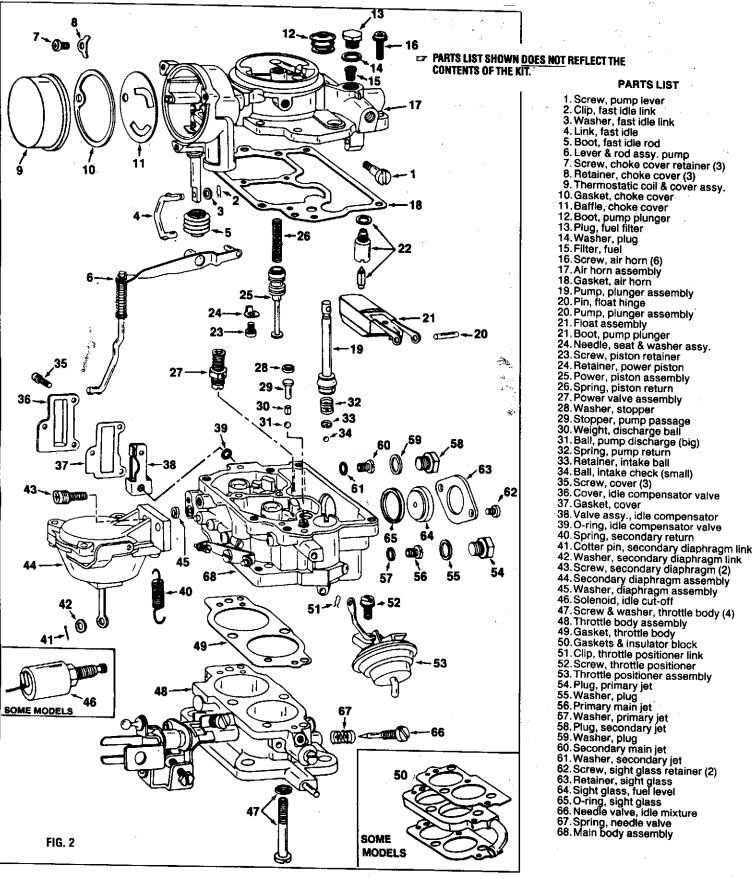
- 26. Screw, piston retainer 27. Retainer, power piston 28. Power piston assembly
- 29. Spring, piston assemb 29. Spring, piston return 30. Weight, ball 31. Ball, pump discharge 32. Spring, pump return 33. Jet, idle

- 34. Power valve assembly

- 35. Plug, primary main jet 36. Washer, plug 37. Jet, primary main (brass) 38. Washer, jet

- 38. Washer, jet
  39. Plug, secondary main jet
  40. Washer, plug
  41. Jet, secondary main (chrome)
  42. Washer, jet
  43. Screw, primary venturi (2)
  44. Primary venturi assembly
  45. Gasket, primary venturi
  46. Screw, secondary venturi (2)

- 46. Screw, secondary venturi (2) 47. Secondary venturi assembly
- 48. Gasket, sécondary venturi
- 49 Screw, throttle body (2)
- 50. Screw, throttle body 51. Screw, throttle body (hollow)
- 52. Throttle body assembly 53. Gasket, throttle body
- 54. Main body assembly 55. Plug, needle
- 56. Needle & spring, idle mixture



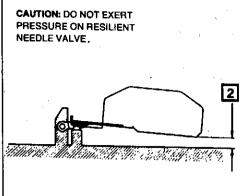
#### **REMOVAL & INSTALLATION NOTES**

- Cover opening on intake manifold after carburetor is removed.
- 2. When removing lets (37, 41 Fig. 1 & 56, 60 Fig. 2), record sizes for proper installation.
  3. To remove plug (55, Fig. 1), drill a hole in the center, then use a puller or pry plug. (Be careful not to damage needle [56, Fig. 1]. There is only .040" clearance between
- 4. Before removing idle mixture needle (56, Fig. 1 & 66, Fig. 2), turn in until seated, counting number of turns. Record for proper installation and initial setting. 5. It is not necessary to remove secondary diaphragm assembly (44, Fig. 2) unless it
- needs to be replaced. If carburetor is equipped with insulator block (50, Fig. 2) and gaskets are damaged or worn, it will be necessary to scrape off old gaskets. Exercise care.
- Install parts and components in reverse order of removal.
- Before installing pump plunger assembly (20, Fig. 1 & 19 Fig. 2), flare leather cup, then soak in light oil for a few minutes.
- 9. Be sure to install different length screws in original locations.
- 10. Before installing cover on A.S.S. valve (Fig. 1), apply a sealer on threads near gasket 11. When installing main body to throttle body (Fig. 1), be sure to hook throttle return spring in notch of bracket on main body.
- 12. Install sight glass (64, Fig. 2) with dot toward inside of fuel chamber.

#### **ADJUSTMENT DATA**

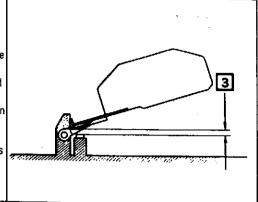
# FIG. 3 FLOAT LEVEL ADJUSTMENT

- Invert air horn and remove gasket.
- 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.
- To adjust, bend center tab as necessary.



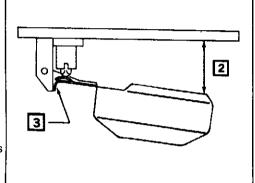
#### FIG. 4 FLOAT DROP ADJUSTMENT

- Invert air horn and remove gasket.
- 2. Raise float gently by hand until it stops.
- Measure distance between top of needle valve and loat center tab.
- 4. To adjust, bend outer tabs as necessary.



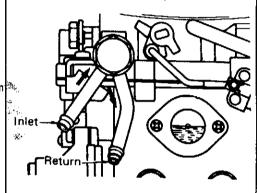
#### FIG. 5 FLOAT DROP ADJUSTMENT (Early Models)

- 1. Hold air horn upright swithout gasket.
- 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.



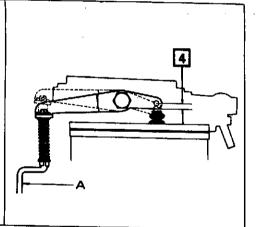
#### FIG. 6 FLOAT LEVEL (Wet)

- 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.



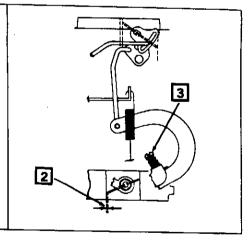
#### FIG. 7 PUMP STROKE ADJUSTMENT

- With throttle valve closed, measure distance between top of pump plunger to top of air horn. Record.
- With throttle valve wide open, measure distance as in step 1. Record.
- The difference between the two measurements is total strok travel. It should be as specified.
- 4. To adjust, bend pump rod



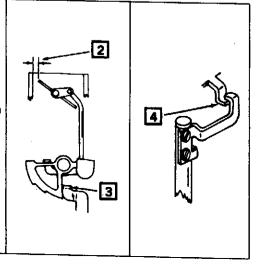
#### FIG. 8 FAST IDLE ADJUSTMENT

- Hold choke valve fully closed.
- 2. Measure distance between lower edge of primary throttle valve and wall, using a gauge or drill bit. On some models, measure throttle valve opening angle. It should be as specified.
- To adjust, turn fast idle adjusting screw.



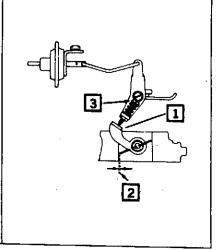
#### FIG. 9 UNLOADER ADJUSTMENT

- Hold throttle valve in wide open position.
- 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.
- Some early applications bend tang here.



#### FIG. 10 THROTTLE POSITIONER ADJUSTMENT

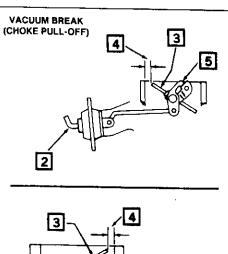
- Check that throttle positioner screw is making a contact with positioner stop.
- Measure distance between lower edge of throttle valve and wall, using a gauge or drill bit. On some models, measure throttle valve opening angle. It should be as specified.
- 3. To adjust, turn throttle positioner screw.

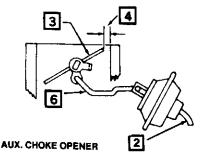


### **ADJUSTMENT DATA (Cont'd)**

#### FIG. 11 VACUUM BREAK & AUX. CHOKE OPENER ADJUSTMENT

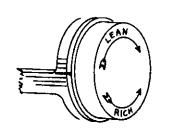
- 1. Place fast idle arm on high step of fast idle cam.
- 2: Apply outside vacuum source until diaphragm is fully seated.
- Hold choke valve toward closed position. Make sure not to pull diaphragm.
- Measure distance between upper edge of choke valve and inner wall of air horn using a gauge or drill 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.





#### FIG. 12 AUTOMATIC CHOKE SETTING

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



#### SPECIFICATION CHART<sup>1</sup>

Year	Application	Float Level (Dry)	Float Orop	Pump Stroke	Fast Idle Adj.	Unicader	Throttle Positioner	Vacuum Break (Choke Pull-Off)	Aux. Choke Opener	idie Speed R.P.M.	
										Slow	Fast
1982-81	3TC Eng.	6.5	1.2	5.0	24°	47°	17°4	40°		700	T 0000
1980	4KC Eng. 1AC Eng.	7.5 4.0	0.9 1.2	5.0 3.0	26° 22°	47°	8.5°	39°	-	700 650	3000 3500
1979-78	3TC Eng. 3KC Eng.	6.5 7.5	1.2	5.0 4.85	24° .95	47°	1704	40°		650 700	3600 3000
1977-75	4M Eng. 3K, 3KC Eng.	13 6.5	1 482	5.5	24°	40°	18.5°	42°	_	750 750	2500
1974-70	2T, 2TC Eng. 3K, 3KC Eng.	3.5	1.2	4.85 5.0	1.0 1.1 <sup>3</sup>	47°			_	<del>-</del>	2600
1969-68	KC Eng.	6.5 6.5	48 <sup>2</sup> 48 <sup>2</sup>	3.5 3.5	1.3 1.3	=	=	_	_	650 650	1300

#### **FOOTNOTES:**

<sup>&</sup>lt;sup>1</sup> Dimensions are in millimeters.

<sup>&</sup>lt;sup>2</sup> See Adjustment Data, Fig. 5.

<sup>3</sup> Models with 2T Eng. set 0.8mm.

<sup>&</sup>lt;sup>4</sup> California Models set 16.5°.