

INSTRUCTION SHEET

HITACHI CARBURETOR—MODEL 328

50-422-1

DISASSEMBLY

GENERAL EXPLODED VIEW

THE GENERAL DESIGN AND PARTS SHOWN WILL VARY TO INDIVIDUAL UNITS COVERED ON THIS INSTRUCTION SHEET.

USE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION. REMOVE STAKING FROM BOWL COVER FOR EASY REMOVAL OF POWER PISTON ASSY. (22). CAUTION: NOTE SIZES OF JETS AND THEIR LOCATION FOR PROPER ASSEMBLY. (RECORD SIZES BELOW.)

NOMENCLATURE

REF. NO.	REF. NO.
1. SCREW & LOCKWASHER - PUMP LEVER	42. SPRING - PUMP RETURN
2. SLEEVE - PUMP LEVER	43. BALL (NYLON)-PUMP INTAKE CHECK
3. COTTER PIN - PUMP ROD	44. POWER VALVE ASSEMBLY
4. WASHER (2) - PUMP ROD	45. GASKET - POWER VALVE
5. SPRING - PUMP ROD	46. PLUG - PUMP DISC. PASSAGE
6. LEVER & ROD ASSY.-PUMP	47. GASKET - PLUG
7. COTTER PIN - FAST IDLE ROD	48. WEIGHT - PUMP DISC. BALL
8. WASHER - FAST IDLE ROD	49. BALL - PUMP DISC. CHECK
9. SPRING - FAST IDLE ROD	50. JET - PRIMARY SLOW AIR BLEED
10. SCREW & LOCKWASHER - CABLE BRACKET	51. JET - SECONDARY SLOW AIR BLEED
11. BRACKET - CHOKE CABLE	52. PLUG - PRIMARY SLOW JET
12. SPRING - THROTTLE RETURN	53. JET - PRIMARY SLOW
13. SOLENOID ASSY.	54. JET - SECONDARY SLOW
14. GASKET - SOLENOID	55. SCREW & LOCKWASHER (2)-PRIMARY VENTURI
15. COTTER PIN-SECONDARY DIAPHRAGM LINK	56. PRIMARY VENTURI ASSEMBLY
16. SCREW & LOCKWASHER (3)-SEC. DIAPHRAGM ASSY.	57. JET - PRIMARY MAIN AIR BLEED
17. SEC. DIAPHRAGM ASSY.	58. TUBE - PRIMARY EMULSION (SMALL DIAMETER)
18. GASKET - SECONDARY DIAPHRAGM ASSEMBLY	59. GASKET - PRIMARY VENTURI
19. SCREW & LOCKWASHER (3)-AIR HORN	60. SCREW & LOCKWASHER (2)-SECONDARY VENTURI
20. AIR HORN ASSY.	61. SECONDARY VENTURI ASSY.
21. GASKET - AIR HORN	62. JET - SECONDARY MAIN AIR BLEED
22. POWER PISTON ASSY.	63. TUBE - SECONDARY EMULSION (LARGE DIAMETER)
23. BOLT - FUEL INLET BANJO	64. GASKET - SEC. VENTURI
24. GASKET - BANJO (UPPER)	65. PLUG - PRIMARY MAIN JET
25. SCREEN - FUEL INLET	66. GASKET - PLUG
26. GASKET - BANJO (LOWER)	67. JET - PRIMARY MAIN
27. SCREW (3)-WINDOW CLAMP	68. PLUG - SEC. MAIN JET
28. CLAMP - WINDOW	69. GASKET - PLUG
29. GASKET - WINDOW CLAMP	70. JET - SEC. MAIN
30. WINDOW - FUEL BOWL	71. SCREW & LOCKWASHER (1)-THROTTLE BODY
31. GASKET - BOWL WINDOW	72. SCREW & STAR LOCKWASHER (1) (HOLLOW)-THROTTLE BODY
32. SEAL - FUEL BAFFLE	73. SCREW & LOCKWASHER (2)-THROTTLE BODY
33. SLEEVE - FLOAT RETAINER	74. BOWL ASSY.
34. FLOAT & LEVER ASSY.	75. GASKET - THROTTLE BODY
35. NEEDLE & SEAT ASSY.	76. NEEDLE - IDLE ADJUSTING
36. GASKET (SERVICE)-NEEDLE AND SEAT ASSEMBLY	77. SPRING - IDLE NEEDLE
37. SCREW & LOCKWASHER (2)-PUMP RETAINER	78. THROTTLE BODY ASSEMBLY
38. RETAINER - PUMP	
39. GASKET - PUMP RETAINER	
40. BOOT - PUMP	
41. PUMP ASSEMBLY	

CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. USE (1) A CARBURETOR CLEANING SOLVENT, (2) LACQUER THINNER OR (3) DENATURED ALCOHOL. MAKE CERTAIN THE THROTTLE BODY IS 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 OBS-CURE AREAS. CAUTION: DO NOT SOAK RUBBER OR PLASTIC PARTS IN SOLVENTS. BEING CAREFUL OF DIAPHRAGM ASSY. (17), SOLENOID (13), AND FLOAT ASSEMBLY (34).

REASSEMBLY

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

SPECIAL INSTRUCTIONS

IDLE ADJUSTING NEEDLE (76)-TURN NEEDLE IN UNTIL LIGHTLY SEATED THEN BACK OUT 1-3/4 TO 2 TURNS.

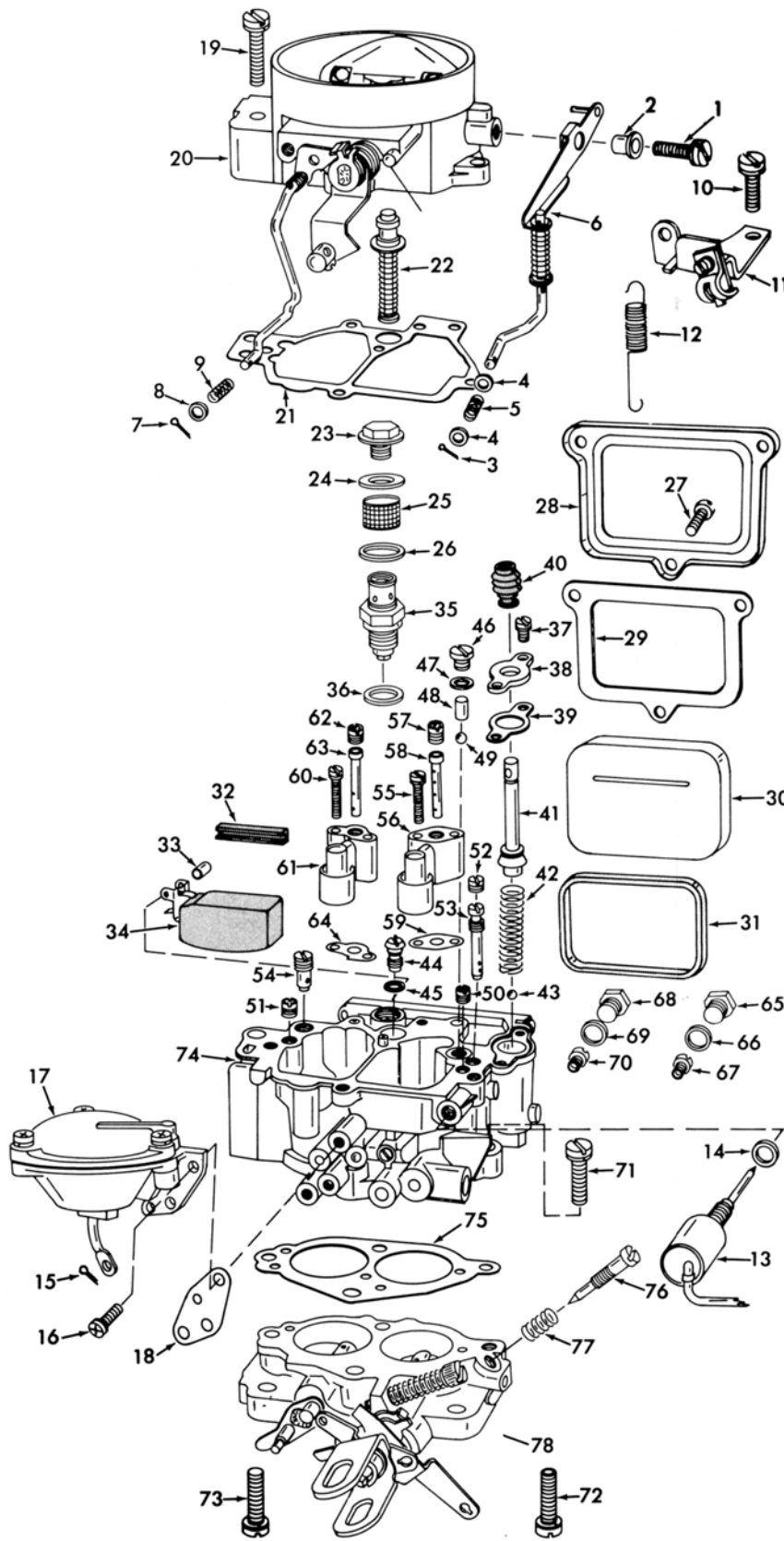
PUMP RETURN SPRING (42)-INSTALL WITH CROSS WIRE IN SLOT AT BOTTOM OF PUMP CYLINDER.

PUMP PLUNGER (41)-REMOVE PAPER SLEEVE FROM LEATHER CUP IF USED. FLEX LEATHER OUTWARD SLIGHTLY. SOAK CUP IN GASOLINE, KEROSENE OR OIL FOR A FEW MINUTES PRIOR TO PLACING IN CARBURETOR.

NEEDLE AND SEAT (35)-INSTALL GASKET (36) ON SERVICE NEEDLE AND SEAT.

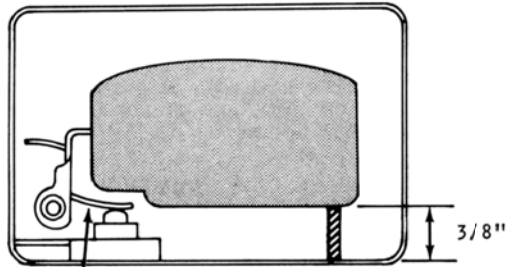
WINDOW CLAMP SCREWS (27)-TIGHTEN SCREWS DOWN EVENLY DON'T OVERTIGHTEN.

POWER PISTON (22)-AFTER INSTALLATION LIGHTLY RESTAKE CASTING AROUND WASHER.



ADJUSTMENTS

- ① FLOAT BOWL INVERTED, MEASURE DISTANCE BETWEEN FLOAT AT TOE END AND CASTING SURFACE. CAUTION: DO NOT PLACE GAUGE UNDER SEAM IN CENTER OF FLOAT.



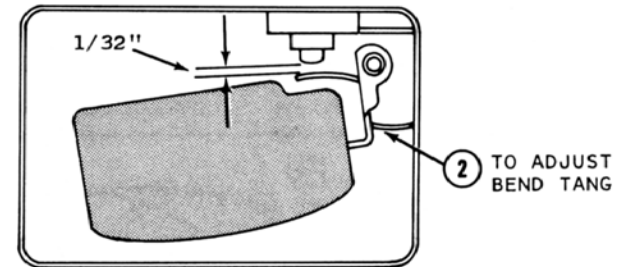
- ② TO ADJUST BEND TANG

CAUTION: DO NOT EXERT PRESSURE ON RESILIENT NEEDLE VALVE.

SOLID NEEDLE
DRY FLOAT LEVEL ADJUSTMENT

FIG. 1.

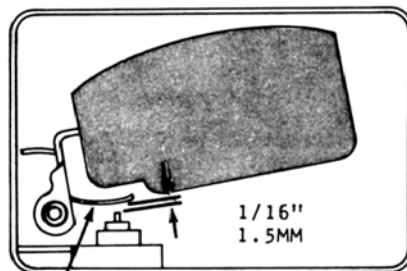
- ① FLOAT BOWL HELD IN NORMAL POSITION WITH FLOAT HANGING FREELY. MEASURE DISTANCE BETWEEN TANG AND NEEDLE HELD IN THE SEATED POSITION.



SOLID NEEDLE
FLOAT DROP ADJUSTMENT

FIG. 2.

- ① FLOAT BOWL INVERTED, LIFT FLOAT FULLY UP. MEASURE DISTANCE BETWEEN FLOAT TANG AND NEEDLE VALVE STEM. (DO NOT COMPRESS STEM INTO NEEDLE.)



- ② TO ADJUST BEND TANG

CAUTION: DO NOT EXERT PRESSURE ON RESILIENT NEEDLE VALVE.

SPRING LOADED NEEDLE
DRY FLOAT LEVEL ADJUSTMENT

FIG. 3.