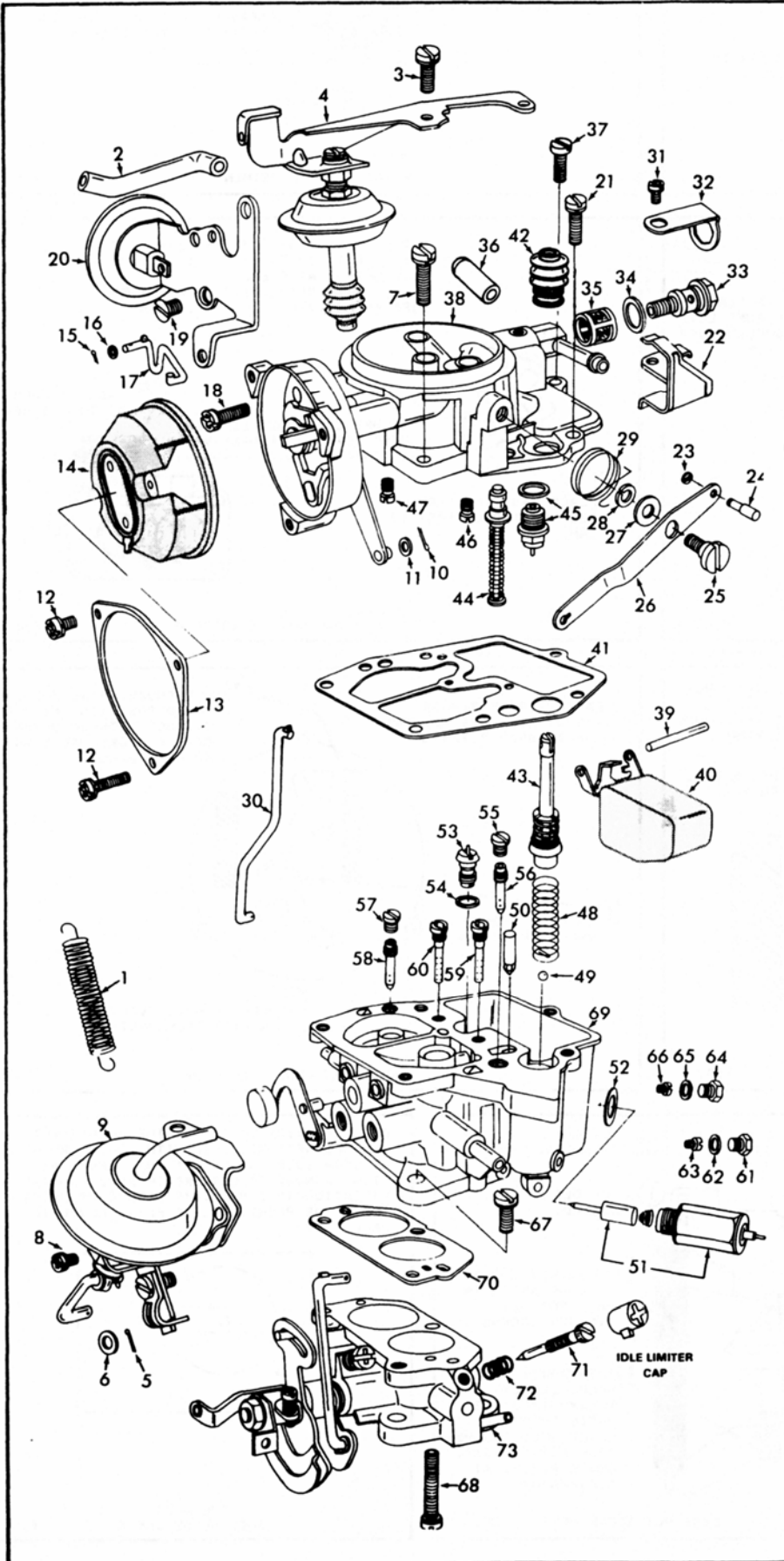


INSTRUCTION SHEET

HITACHI CARBURETOR - MODEL DCH-306

THE 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. BEFORE REMOVING PUMP (43) WORK BOOT (42) UP THROUGH BOWL COVER, THEN REMOVE FROM PUMP STEM. REMOVE STAKING FROM BOWL COVER FOR EASY REMOVAL OF POWER PISTON ASSY. (44). NOTE SIZES OF JETS AND THEIR LOCATION FOR PROPER ASSY. (RECORD SIZES BELOW.)

NOMENCLATURE

REF. NO.	REF. NO.
1. SPRING - THROTTLE RETURN	36. CAP (2) - ALTITUDE TUBES (SOME MODELS)
2. HOSE - VACUUM BREAK	37. SCREW & LOCKWASHER - BOWL COVER BRACKET
3. SCREW & LOCKWASHER (2) - DASHPOT BRACKET	38. BOWL COVER ASSY.
4. DASHPOT AND BRACKET ASSY.	39. PIN - FLOAT
5. COTTER PIN - T.O.C.S. LINK	40. FLOAT ASSY.
6. WASHER - T.O.C.S. LINK	41. GASKET - BCWL COVER
7. SCREW & LOCKWASHER (1) - T.O.C.S. BRACKET	42. BOOT - PUMP
8. SCREW & LOCKWASHER (2) - T.O.C.S. BRACKET	43. PUMP ASSY.
9. DIAPHRAGM ASSY. - THROTTLE OPENER CONTROL SYSTEM	44. POWER PISTON ASSY.
10. COTTER PIN - FAST IDLE LINK	45. NEEDLE, SEAT & GASKET ASSY.
11. WASHER - FAST IDLE LINK	46. JET - PRIMARY SLOW AIR BLEED
12. SCREW (3) - RETAINER	47. JET - SECONDARY SLOW AIR BLEED
13. RETAINER - CHOKE COVER	48. SPRING - PUMP RETURN
14. CHOKE COVER ASSY.	49. BALL - PUMP INTAKE CHECK
15. COTTER PIN - VACUUM BREAK LINK	50. NEEDLE - PUMP DISCHARGE CHECK
16. WASHER - VACUUM BREAK LINK	51. SOLENOID ASSY. - ANTIDIASELING
17. LINK - VACUUM BREAK	52. GASKET - SOLENOID
18. SCREW & LOCKWASHER (2) - CHOKE HOUSING	53. POWER VALVE ASSY.
19. SCREW - VACUUM BREAK BRACKET	54. GASKET - POWER VALVE
20. VACUUM BREAK & BRACKET ASSY.	55. PLUG - PRIMARY SLOW JET
21. SCREW & LOCKWASHER - STROKE LIMITER	56. JET - PRIMARY SLOW
22. STROKE LIMITER - PUMP	57. JET - SECONDARY SLOW JET
23. E-CLIP - LEVER PIN	58. JET - SECONDARY SLOW
24. PIN - PUMP LEVER	59. JET TUBE - PRIMARY MAIN AIR BLEED
25. PIVOT SCREW - PUMP LEVER	60. JET TUBE - SECONDARY MAIN AIR BLEED
26. LEVER - PUMP	61. PLUG - PRIMARY MAIN JET
27. WASHER - PUMP LEVER SCREW	62. GASKET - PLUG
28. LOCKWASHER - PUMP LEVER SCREW	63. JET - PRIMARY MAIN
29. SPRING - PUMP LEVER	64. PLUG - SECONDARY MAIN JET
30. ROD - PUMP LEVER	65. GASKET - PLUG
31. SCREW, WASHER & LOCKWASHER - BRACKET	66. JET - SECONDARY MAIN
32. BRACKET - FUEL INLET BOLT	67. SCREW & LOCKWASHER (2) - THROTTLE BODY
33. BOLT - FUEL INLET	68. SCREW & LOCKWASHER (1) - THROTTLE BODY
34. GASKET - FUEL INLET BOLT	69. BOWL ASSY.
35. SCREEN - FUEL INLET	70. GASKET - THROTTLE BODY
	71. NEEDLE - IDLE ADJUSTING
	72. SPRING - IDLE ADJ. NEEDLE
	73. THROTTLE BODY ASSY.

CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. **CAUTION:** BE VERY CAREFUL NOT TO LEAVE FUEL BOWL ASSY. (69) IN CLEANING SOLVENT TOO LONG BECAUSE OF GLASS WINDOW RUBBER SEAL WHICH IS NOT REPLACEABLE. USE A CARBURETOR CLEANING SOLVENT. 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 OBSCURE AREAS. DO NOT SOAK RUBBER OR PLASTIC PARTS IN SOLVENTS. BE CAREFUL OF DIAPHRAGM ASSY'S (4), (9), (20) FLOAT ASSY. (40) CHOKE COVER (14) AND SOLENOID ASSY. (51).

REASSEMBLY

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

SPECIAL INSTRUCTIONS

IDLE ADJUSTING NEEDLE (71) - TURN NEEDLE IN UNTIL LIGHTLY SEATED THEN BACK OUT 2 TURNS.

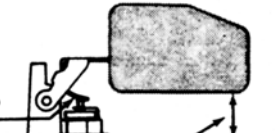
PUMP RETURN SPRING (48) - INSTALL WITH CROSS WIRE TO THE BOTTOM OF PUMP CYLINDER.

POWER PISTON (44) - AFTER INSTALLATION LIGHTLY RESTAKE CASTING AROUND WASHER.

ADJUSTMENTS

- 1 BOWL COVER INVERTED, RAISE FLOAT AND THEN LOWER IT SLOWLY UNTIL FLOAT SEAT MAKES CONTACT WITH STEM OF NEEDLE VALVE. (DO NOT COMPRESS SPRING LOADED NEEDLE.)

- 3 TO ADJUST BEND FLOAT SEAT.



SETTING
.590"
15.MM

- 2 MEASURE DISTANCE BETWEEN END OF FLOAT AND BOWL COVER.

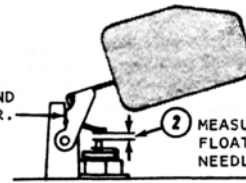
CAUTION: DO NOT EXERT PRESSURE ON RESILIENT NEEDLE VALVE.

DRY FLOAT LEVEL ADJUSTMENT

FIG. 1

- 1 BOWL COVER INVERTED, RAISE FLOAT UNTIL FLOAT STOPPER CONTACTS CARBURETOR BODY.

- 3 TO ADJUST BEND FLOAT STOPPER.



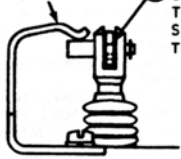
- 2 MEASURE DISTANCE BETWEEN FLOAT SEAT AND STEM OF NEEDLE VALVE.

CLEARANCE
.051"-.067"
1.30-1.70 MM

FLOAT DROP ADJUSTMENT

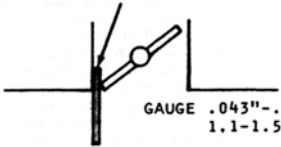
FIG. 2

- 3 TO ADJUST BEND LIMITER STOP.



- 2 GAUGE IN PLACE, TOP OF PUMP LEVER SLOT SHOULD JUST TOUCH PIN.

- 1 PLACE A PIECE OF ROUND STOCK OF PROPER THICKNESS BETWEEN PRIMARY THROTTLE VALVE & BORE OF CARBURATOR.



GAUGE .043"-.059"
1.1-1.5 MM

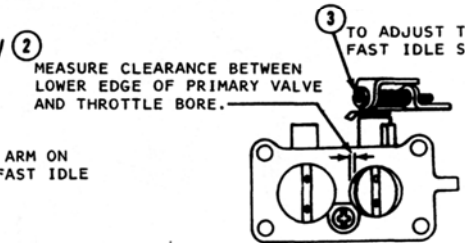
PUMP STROKE LIMITER ADJUSTMENT

FIG. 3

DATSUN M/T .028"-.034" - .73-.87MM
A/T .039"-.045" - 1.-1.14MM
1980 DATSUN-A12A ENG. .024"-.031" - .63-.80MM
1980 MAZDA .054" - 1.37MM



- 1 PLACE FAST IDLE ARM ON SECOND STEP OF FAST IDLE CAM.



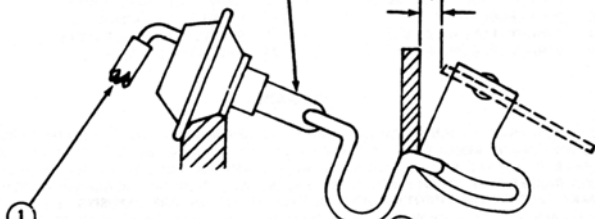
- 2 MEASURE CLEARANCE BETWEEN LOWER EDGE OF PRIMARY VALVE AND THROTTLE BORE.

- 3 TO ADJUST TURN FAST IDLE SCREW.

FAST IDLE ADJUSTMENT (BENCH)

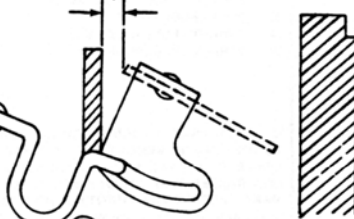
FIG. 4

- 2 OPEN THROTTLE TO RELEASE FAST IDLE CAM. PRESS CHOKE VALVE TOWARDS THE CLOSED POSITION, EXTENDING 2-PIECE STEM FULLY. (DO NOT PULL DIAPHRAGM OFF ITS SEAT).



- 1 APPLY OUTSIDE VACUUM SOURCE TO FULLY SEAT DIAPHRAGM PLUNGER.

- 3 MEASURE DISTANCE BETWEEN UPPER EDGE OF CHOKE VALVE AND AIR HORN WALL.

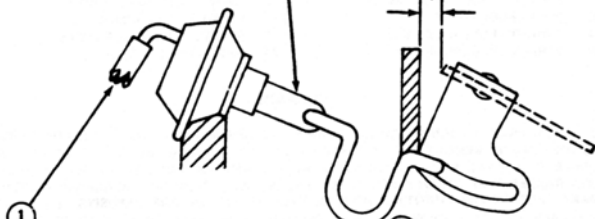


- 4 TO ADJUST BEND LINK AT LOOP.

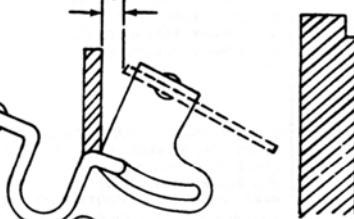
VACUUM BREAK ADJUSTMENT

FIG. 5

- 2 OPEN THROTTLE TO RELEASE FAST IDLE CAM. PRESS CHOKE VALVE TOWARDS THE CLOSED POSITION, EXTENDING 2-PIECE STEM FULLY. (DO NOT PULL DIAPHRAGM OFF ITS SEAT).



- 3 MEASURE DISTANCE BETWEEN UPPER EDGE OF CHOKE VALVE AND AIR HORN WALL.



- 4 TO ADJUST BEND LINK AT LOOP.

VACUUM BREAK ADJUSTMENT

FIG. 5

- 2 HOLD CHOKE VALVE TOWARD CLOSED POSITION. MEASURE DISTANCE BETWEEN UPPER EDGE OF CHOKE VALVE AND AIR HORN WALL.



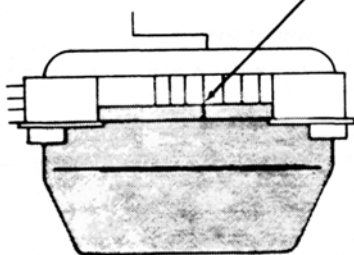
- 3 TO ADJUST BEND UNLOADER TONGUE.

- 1 HOLD THROTTLE VALVE IN WIDE OPEN POSITION.

CHOKE UNLOADER ADJUSTMENT

FIG. 6

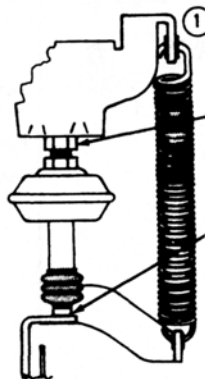
ROTATE CHOKE COVER TO ALIGN COVER INDEX MARK WITH CENTER INDEX MARK ON CHOKE HOUSING.



AUTOMATIC CHOKE ADJUSTMENT

FIG. 7

1900-2100R.P.M. CALIF.
2300-2500R.P.M. 495,CAN.



- 1 CURB IDLE ADJUSTED.

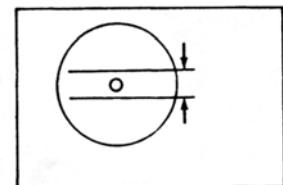
- 3 TO ADJUST LOOSEN LOCKNUT AND TURN DASH POT ASSY. TIGHTEN LOCKNUT.

- 2 OPEN THROTTLE BY HAND, SLOWLY RETURN THROTTLE UNTIL THROTTLE LEVER JUST TOUCHES DASH POT PLUNGER. CHECK R.P.M. AT THIS POINT.

DASH POT ADJUSTMENT

FIG. 8

ON COMPLETION OF CARBURETOR ADJUSTMENTS, VEHICLE SETTING LEVEL WITH ENGINE RUNNING AT CURB IDLE. CHECK WET FUEL LEVEL AT SIGHT WINDOW OF CARBURETOR BOWL. NORMAL VARIATION IS 1 MM, .039" ABOVE OR BELOW INDICATOR POINT. (ALTER FLOAT LEVEL IF NECESSARY).



(ON CAR)
FUEL LEVEL CHECK

FIG. 9