

## OFF VEHICLE CARBURETOR SERVICE (HONDA) KEIHIN-TRIPLE SINGLE BARREL ASSEMBLY

### NOMENCLATURE

REF. NO.	REF. NO.
1. COTTER PIN-THROTTLE OPENER ROD	81. WASHER-LINK
2. WASHER (2)-THROTTLE OPENER ROD	82. SCREW & LOCKWASHER-REAR BRACKET (CENTER CARB.)
3. SCREW & LOCKWASHER (2)- THROTTLE OPENER	83. SPACER-SCREW (CENTER CARB.)
4. THROTTLE OPENER ASSEMBLY	84. SCREW & LOCKWASHER- SOLENOID ASSEMBLY
5. COTTER PIN-LEVER LINK	85. SOLENOID ASSY.-IDLE SHUT OFF (CENTER CARB.)
6. WASHER-LEVER LINK	88. O-RING-IDLE SHUT OFF SOLENOID
7. E-CLIP-THERMOWAX VALVE LEVER	87. VENTURI-CENTER CARB.
8. WASHER-THERMOWAX VALVE LEVER	88. SCREW & LOCKWASHER (2)- FUEL BOWL
9. SCREW (2)-THERMOWAX VALVE	89. FUEL BOWL ASSEMBLY
10. THERMOWAX VALVE & LEVER ASSY.	90. SEAL-FUEL BOWL
11. BUSHING (2)-THERMOWAX VALVE LEVER	91. SCREW-FLOAT PIN
12. SCREW & LOCKWASHER (2)-CROSSOVER PIPE RETAINERS	92. FLOAT ASSEMBLY
13. RETAINERS (2)-CROSSOVER PIPE	93. PIN-FLOAT
14. CROSSOVER PIPE -PUMP	94. NEEDLE-FUEL INLET
15. SEAL (2)-CROSSOVER PIPE	95. JET-MAIN
16. O-RING (2)-CROSSOVER PIPE	98. NOZZLE-MAIN
17. SCREW (6)-FRONT BRACKET	97. PLUG-SLOW JET
18. BRACKET-FRONT	98. O-RING-PLUG
19. BUSHINGS (6)-GUIDE	99. JET-SLOW JET (CENTER CARB.)
20. SEALS (2)-FRONT BRACKET (WATER PASSAGE)	100. PLUG-IDLE NEEDLE
21. SEAL-CENTER CARBURETOR (MOUNTING)	101. NEEDLE-IDLE ADJUSTING
22. SEAL-CENTER CARBURETOR (WATER BY PASS)	102. SPRING-IDLE NEEDLE
23. SCREW & LOCKWASHER (2)- REAR BRACKET (CHOKE SIDE CARBURETOR)	103. WASHER-IDLE NEEDLE
24. PIPE-FUEL VAPOR	104. O-RING-IDLE NEEDLE
25. O-RINGS (2)-FUEL VAPOR PIPE	105. FITTING-FUEL INLET
28. POP RIVETS (3)-CHOKE COVER RETAINER	106. O-RING-FITTING
27. CHOKE COVER & RETAINER ASSY.	107. SCREEN-FUEL INLET
28. GASKET-CHOKE COVER	108. MAIN BODY ASSEMBLY CENTER CARBURETOR
29. BUSHING (PLASTIC)-CHOKE COIL LEVER	109. PIPE-FUEL VAPOR
30. COTTER PIN-DIAPHRAGM ROD	110. O-RING (2)-FUEL VAPOR PIPE
31. WASHER-DIAPHRAGM ROD	111. SCREW & LOCKWASHER-IDLE SHUT OFF SOLENOID
32. SCREW (3)-CHOKE OPENER VALVE	112. SOLENOID ASSY.- IDLE SHUT OFF (2 WIRE)
33. VALVE ASSEMBLY-CHOKE OPENER	113. O-RING-IDLE SHUT OFF SOLENOID
34. SPRING-DIAPHRAGM	114. SCREW & LOCKWASHER (2)- VACUUM CHAMBER
35. DIAPHRAGM-CHOKE OPENER	115. VACUUM CHAMBER
36. SCREW & LOCKWASHER (2)- AIR VENT VALVE	118. SPRING-VACUUM PISTON
37. AIR VENT SOLENOID VALVE ASSEMBLY	117. VACUUM PISTON & JET NEEDLE ASSEMBLY
38. O-RING-AIR VENT SOLENOID ASSEMBLY	118. SPRING SEAT
39. SCREW & LOCKWASHER (2)- VACUUM CHAMBER	119. STOPPER-VACUUM PISTON
40. VACUUM CHAMBER	120. O-RING-VACUUM PISTON STOPPER
41. SPRING-VACUUM PISTON	121. O-RING-VACUUM CHAMBER
42. VACUUM PISTON & JET NEEDLE ASSEMBLY	122. SPACER RING-VACUUM CHAMBER O-RING
43. SPRING SEAT	123. SCREW & LOCKWASHER- COVER
44. STOPPER-VACUUM PISTON	124. JET COVER
45. O-RING-VACUUM PISTON STOPPER	125. GASKET-JET COVER
46. O-RING-VACUUM CHAMBER	126. SCREW & LOCKWASHER- COVER
47. SPACER RING-VACUUM CHAMBER O-RING	127. JET COVER-PLASTIC (PISTON GUIDE)
48. SCREW & LOCKWASHER-COVER	128. GASKET-JET COVER
49. JET-COVER	129. SCREW & LOCKWASHER (3)- COVER
50. GASKET-JET COVER	130. COVER-POWER VALVE
51. SCREW & LOCKWASHER-COVER	131. SPRING-POWER VALVE DIAPHRAGM
52. JET COVER-PLASTIC (PISTON GUIDE)	132. DIAPHRAGM-POWER VALVE
52. GASKET-JET COVER	133. SCREW & LOCKWASHER (3)- FUEL BOWL
54. SCREW & LOCKWASHER (3)- COVER	134. FUEL BOWL ASSEMBLY
55. COVER-POWER VALVE	135. O-RING-PUMP PASSAGE
56. SPRING-POWER VALVE DIAPHRAGM	136. SEAL-FUEL BOWL
57. DIAPHRAGM-POWER VALVE	137. BOOT-PUMP STEM
58. SCREW & LOCKWASHER (3)-FUEL BOWL	138. SCREW & LOCKWASHER (3)- COVER
59. FUEL BOWL ASSEMBLY	139. COVER-PUMP DIAPHRAGM
60. O-RING-PUMP PASSAGE	140. SPRING-PUMP DIAPHRAGM
61. SEAL-FUEL BOWL	141. DIAPHRAGM-PUMP
62. PIN-FLOAT	142. STEM-PUMP
63. FLOAT ASSEMBLY	143. PIN-FLOAT
64. NEEDLE & SEAT ASSEMBLY	144. FLOAT ASSEMBLY
65. SCREEN-NEEDLE SEAT	145. NEEDLE & SEAT ASSEMBLY
66. BAFFLE	146. SCREEN-NEEDLE SEAT
67. JET-PRIMARY MAIN	147. BAFFLE
68. O-RING-PRIMARY MAIN JET	148. JET-PRIMARY MAIN
69. JET-PRIMARY SLOW JET	149. O-RING-PRIMARY MAIN JET
70. POWER VALVE ASSEMBLY	150. JET-PRIMARY SLOW JET
71. TUBE-POWER VALVE	151. POWER VALVE ASSEMBLY
72. SECONDARY MAIN JET & HOLDER	152. TUBE-POWER VALVE
73. JET-NEEDLE	153. SECONDARY MAIN JET & HOLDER
74. PLUG-IDLE ADJUSTING NEEDLE	154. JET-NEEDLE
75. NEEDLE-IDLE ADJUSTING	155. PLUG-IDLE ADJUSTING NEEDLE
76. SPRING-IDLE NEEDLE	156. NEEDLE-IDLE ADJUSTING
77. WASHER-IDLE NEEDLE	157. SPRING-IDLE NEEDLE
78. O-RING-IDLE NEEDLE	158. WASHER-IDLE NEEDLE
79. MAIN BODY ASSEMBLY- (RIGHT CARBURETOR)	159. O-RING-IDLE NEEDLE
80. COTTER PIN-THROTTLE LINK (LOWER END) CENTER CARB.	160. MAIN BODY ASSEMBLY- (LEFT CARBURETOR)

### DISASSEMBLY

USE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION. CARBURETOR COMPONENTS ARE MACHINED TO EXACTING SPECIFICATIONS AND MUST NOT BE TREATED ROUGHLY.

CAUTION: DISASSEMBLE ONE CARBURETOR AT A TIME FROM BRACKET LEAVING BRACKET ATTACHED TO LEFT SIDE OF CARBURETOR. FOLLOWING NUMERICAL SEQUENCE STARTING WITH RIGHT SIDE CARBURETOR (W/AUTO CHOKE). NOTE CAREFULLY OF HOW RIGHT UNIT LEVER SLIPS OUT OF CONNECTING THROTTLE LEVER. DISCONNECT ONLY LOWER END OF CENTER CARBURETOR THROTTLE LINK. DO NOT DISASSEMBLE LEVERS DO NOT LOOSEN OR CHANGE ANY ADJUSTMENT SCREWS ON LINKAGE OR THROTTLE LEVERS. CARBURETORS CAN BE SEPARATED WITHOUT CHANGING ADJUSTMENTS. KEEP EACH UNIT PARTS IN SEPARATE CONTAINERS (DO NOT MIX PARTS). BEFORE REMOVING IDLE MIXTURE NEEDLES. TURN IN COUNTING THE NUMBER OF TURNS IT IS FROM THE SEATED POSITION (RECORD). CHOKE COVER REMOVAL, USE A 5/32" DRILL TO DRILL OFF POP RIVET HEADS.

### CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. CLEAN ALL THE PASSAGES OF THE CARBURETOR WITH SPRAY CARBURETOR CLEANER. MAKE CERTAIN THE THROTTLE BODY IS FREE OF ALL CARBON DEPOSITS. WASH OFF IN SUITABLE SOLVENT. BLOW OUT ALL PASSAGES AND JETS IN CASTINGS WITH COMPRESSED AIR AND CHECK CAREFULLY TO INSURE THOROUGH CLEANING OF OBSCURE AREAS. CAUTION: DO NOT SOAK DIAPHRAGM OR SOLENOID ASSEMBLIES, CHOKE COVER, FLOATS, OR PARTS MADE OF RUBBER IN ANY TYPE OF CLEANING SOLVENTS.

### REASSEMBLY

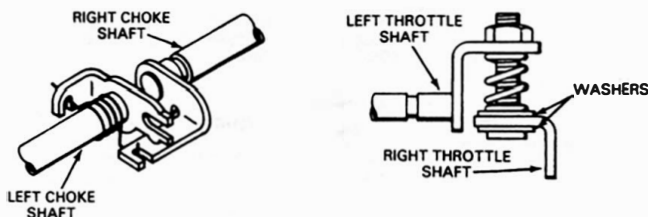
REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL INSTRUCTIONS AND ADJUSTMENTS.

### SPECIAL INSTRUCTIONS

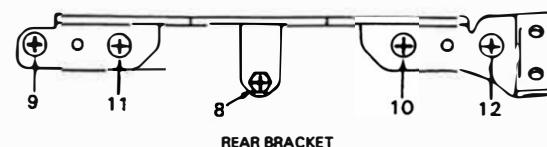
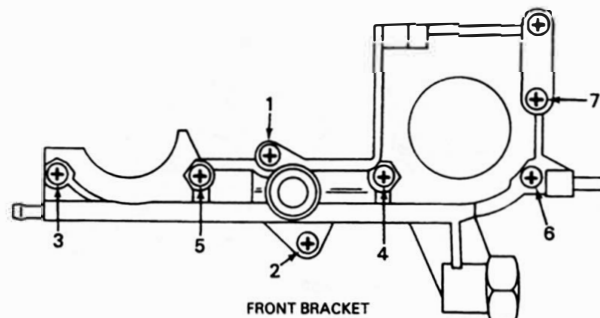
IDLE ADJUSTING NEEDLES-TO INSTALL FIRST ASSEMBLE SPRING, WASHER, & O-RING ON NEEDLE. TURN NEEDLE IN UNTIL LIGHTLY SEATED THEN BACK OUT NUMBER OF TURNS RECORDED ON DISASSEMBLY. (DO NOT INSTALL PLUGS AT THIS TIME).

#### ASSEMBLY OF LEFT-CENTER-RIGHT CARBURETORS

1. LIGHTLY LUB O-RINGS FOR EASIER ASSEMBLY.
2. INSTALL FUEL VAPOR PIPE (NEW O-RINGS) IN LEFT CARBURETOR. (BE SURE KEY SLOT IS IN THE RIGHT POSITION). HOOK CENTER CARBURETOR THROTTLE LEVER TO LINK AND INSTALL CENTER CARBURETOR TO LEFT CARBURETOR. INSTALL BRACKET SCREW, DO NOT TIGHTEN AT THIS TIME.
3. INSTALL FUEL VAPOR PIPE (NEW O-RINGS) IN CENTER CARBURETOR. (BE SURE KEY SLOT IS IN THE RIGHT POSITION). INSERT THE RIGHT CARBURETOR THROTTLE SHAFT END (FORKED) BETWEEN THE WASHERS ON THE LEFT CARBURETOR THROTTLE SHAFT END. ALSO LINING UP CHOKE SHAFTS PROPERLY.
4. INSTALL REAR BRACKET SCREWS, DO NOT TIGHTEN AT THIS TIME.
5. INSTALL THE FRONT BRACKET WITH GUIDE BUSHINGS AND NEW SEALS. (DO NOT TIGHTEN SCREWS AT THIS POINT). BE SURE TO USE PROPER LENGTH SCREWS. CHECK THAT CHOKE AND THROTTLE SHAFTS MOVE SMOOTHLY (NO BINDING).



TIGHTEN SCREWS IN THE SEQUENCE SHOWN



# ADJUSTMENTS

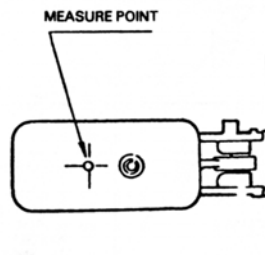
- HOLD THROTTLE BODY WITH FLOAT ARM PIN TO THE TOP. TILT CARBURETOR BODY TO A POINT WHERE TAB ON FLOAT JUST MAKES CONTACT WITH NEEDLE (WHICH IS SPRING LOADED). DO NOT COMPRESS SPRING LOADED NEEDLE.

CENTER CARBURETOR CHECK AND MEASURE IN THE SAME MANNER AS MAIN CARBURETOR CHECK AT POINT SHOWN. THIS FLOAT CANNOT BE ADJUSTED. IF INCORRECT LEVEL, FLOAT MUST BE REPLACED.

- TO ADJUST BEND FLOAT TAB.

SETTING  
LEFT & RIGHT CARB. 16MM ± 1MM  
CENTER CARB. 17MM ± 1MM

CAUTION: DO NOT EXERT PRESSURE ON RESILIENT NEEDLE VALVE.



- MEASURE DISTANCE FROM CARBURETOR BODY TO BOTTOM OF FLOAT.

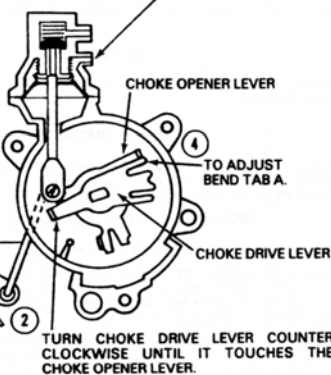
FIG. 1  
FLOAT LEVEL ADJUSTMENT

## CHOKER LINKAGE ADJUSTMENT

- APPLY A VACUUM SOURCE TO LOWER CONNECTION. (MAINTAIN 8" VAC. 200MM)

M/T 1.58 ± .07MM (.062" ± .003")  
A/T 1.43 ± .07MM (.058" ± .003")

- MEASURE DISTANCE BETWEEN TOP OF CHOKE VALVE AND CASTING.

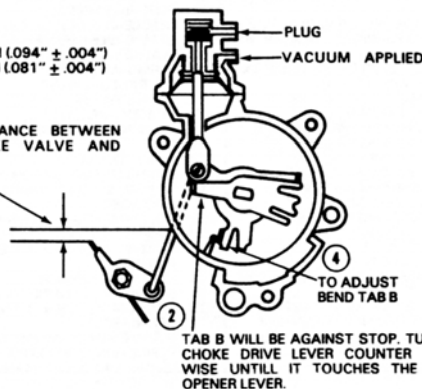


1ST STAGE CLEARANCE

- PLUG TOP VACUUM CONNECTION AND APPLY VACUUM TO LOWER VACUUM CONNECTION. (MAINTAIN 7" VAC. 180 MM).

M/T 2.38 ± .09MM (.094" ± .004")  
A/T 2.05 ± .09MM (.081" ± .004")

- MEASURE DISTANCE BETWEEN TOP OF CHOKE VALVE AND CASTING.

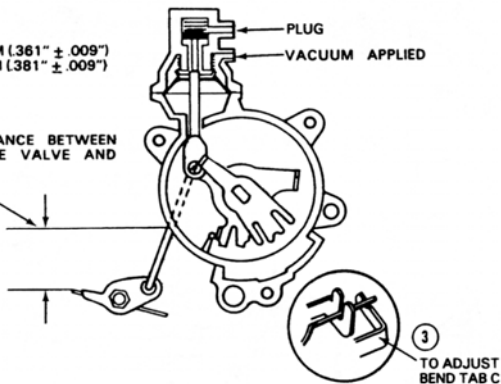


2ND STAGE CLEARANCE

- VACUUM APPLIED AS IN STAGE 2. RELEASE CHOKE LEVER UNTIL TAB C TOUCHES THE SPRING.

M/T 9.16 ± .24MM (.361" ± .009")  
A/T 9.69 ± .24MM (.381" ± .009")

- MEASURE DISTANCE BETWEEN TOP OF CHOKE VALVE AND CASTING.



3RD STAGE

(INSTALL CHOKE COVER AND ALIGN INDEX MARKS).

FIG. 2

# GENERAL EXPLODED VIEW

