

# FUEL SYSTEM

## SERVICE INSTRUCTION WORKSHEET

TO REPAIR

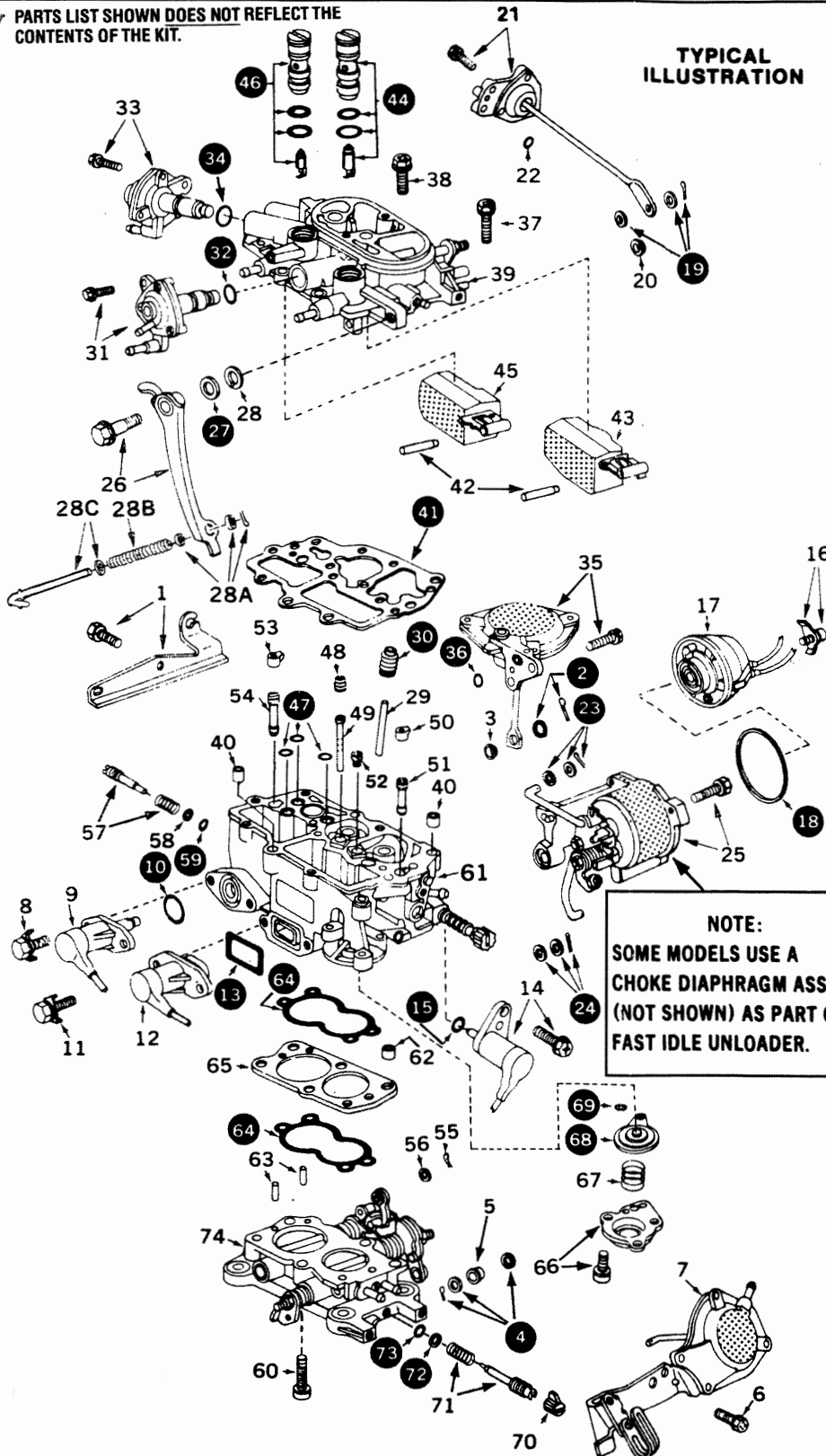
GF4356-4

KEIHIN CARBURETOR

2 BARREL • 3 Venturi

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

TYPICAL ILLUSTRATION



NOTE: Circled parts are included in most kits. Extra parts are included for other kits.

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 shown 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 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 this 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.

### 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. Screw & Bracket
2. Clip & Washer, Sec. Diaph. Rod
3. Bushing, Sec. Diaph. Rod
4. Clip & Washer (2), Throttle Opener Rod
5. Bushing, Throttle Opener Rod
6. Screw (2), Mounting, Throttle Opener
7. Throttle Opener Assembly
8. Bolt & Lock Tab, Solenoid
9. Solenoid, Aux., Jet Cut-Off
10. "O" Ring, Solenoid, Aux.
11. Bolt & Lock Tab, Solenoid
12. Solenoid, Main Jet Pri. Cut-Off
13. "O" Ring, Solenoid, Pri.
14. Screw & Solenoid, Idle Cut-Off
15. "O" Ring, Solenoid, Idle Cut-Off
16. Screw (3) & Retainer, Choke Cover\*
17. Choke Cover Assembly\*
18. Gasket, Choke Cover\*
19. Clip & Washer, Choke Opener Rod
20. Bushing, Choke Opener Rod
21. Screw (2) & Choke Opener Assy.
22. "O" Ring, Choke Opener
23. Clip & Washer (2), Choke Rod\*
24. Clip & Washer (2),
25. Screw & Choke Housing Assy.\*
26. Bolt & Pump Lever Assy.
27. Washer, Pump Lever
28. Lockwasher, Pump Lever
- 28A. Clip & Washer (2)
- 28B. Spring, Pump Rod
- 28C. Rod & Washer, Pump
29. Pin, Pump
30. Dust Cover, Pump Pin
31. Screw & Air Vent Diaph. Aux.
32. "O" Ring, Air Vent Diaph., Aux.
33. Screw & Air Vent Diaph., Pri.
34. "O" Ring, Air Vent Diaph., Pri.
35. Screw & Sec. Diaph. Assy.
36. "O" Ring, Sec. Diaph. Assy.
37. Screw (2), Air Horn (long)
38. Screw (8), Air Horn (short)†
39. Air Horn Assembly
40. Pin (2), Alignment
41. Gasket, Air Horn
42. Pin (2), Float, Main & Aux. #
43. Float Assy. Main
44. Needle & Seat Assy., Main
45. Float Assembly, Aux.
46. Needle & Seat Assy., Aux.
47. "O" Ring (3), Seal, Aux.
48. Jet, Air Bleed, Sec. Main
49. Tube, Emulsion, Sec.
50. Cover (Black), Slow Jet, Pri.
51. Jet, Slow, Pri.
52. Jet, Main Air Bleed, Pri.
53. Cover (White), Slow Jet, Aux.
54. Jet, Slow, Aux.
55. Clip, Throttle Lever, Aux.
56. Washer, Throttle Lever, Aux.
57. Mixture Screw & Spring, Aux.
58. Washer, Mixture Screw, Aux.
59. "O" Ring, Mixture Screw, Aux.
60. Screw (5), Throttle Body
61. Main Body
62. Pin, Alignment (large)
63. Pin (2), Alignment (small)
64. Seal (2), Throttle Body to Main Body
65. Spacer, Throttle Body to Main Body
66. Screw (3) & Pump Cover
67. Spring, Return Pump Diaph.
68. Diaph. Assembly Pump
69. "O" Ring, Pump Channel
70. Limiter Cap (save)
71. Mixture Screw & Spring, Pri.
72. Washer, Mixture Screw, Pri.
73. "O" Ring, Mixture Screw, Pri.
74. Throttle Body

# See Disassembly—Assembly Notes.

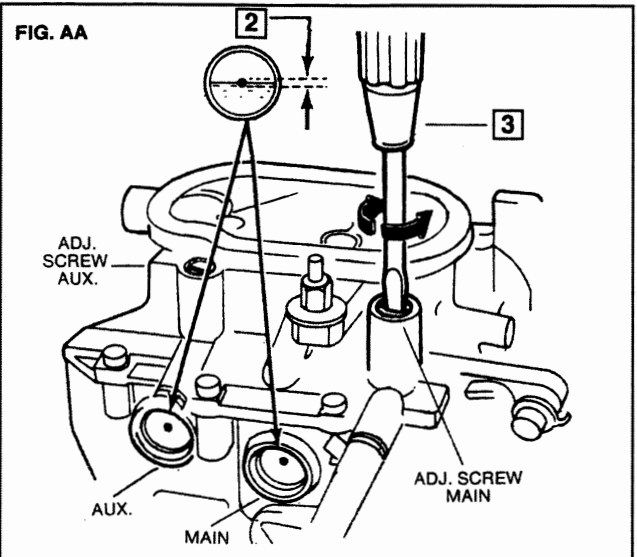
† Screw hidden in carburetor throat.

\* Some Models.

## DISASSEMBLY — ASSEMBLY NOTES

1. MEASURE AND RECORD FLOAT LEVEL SETTINGS BEFORE DISMANTLING FLOAT ASSEMBLIES (43, 45). REMEMBER THAT THE FLOAT UNIT IS SUBJECT TO POSSIBLE FUEL ABSORPTION. IF IN DOUBT, REPLACE WITH A NEW ONE.
2. FLOAT PINS (42) ARE TAPERED. USE A 3/32" DRIVE PUNCH & DRIVE PINS FROM SHORT END OF POST TOWARD LONG END OF POST.
3. MARK OR INDEX PARTS ESPECIALLY WHERE SIMILARITIES EXIST SUCH AS JETS & TUBES, ETC. ALSO NOTE SPRING LOCATION POINTS TO INSURE CORRECT RE-ASSEMBLY.
4. RETAIN ALL OLD GASKETS FOR MATCHING PURPOSES. RE-ASSEMBLE WITH ALL NEW APPLICABLE GASKETS.
5. SOME MODELS — TO CORRECTLY PLACE CHOKE COVER ASSY. (17) ON CHOKE HOUSING (25), MAKE SURE LOOP END OF SPRING IS INSTALLED ONTO LEVER PIN INSIDE CHOKE HOUSING.
6. CAREFULLY REMOVE LIMITER CAP (70) SINCE IT WILL BE REINSTALLED AFTER FINAL ADJUSTMENT.
7. BEFORE REMOVING MIXTURE SCREWS (57, 71), MARK POSITION, TURN IN UNTIL LIGHTLY SEATED COUNTING NUMBER OF TURNS, TURN OUT TO INDEX MARK. RECORD NUMBER OF TURNS FOR RE-ASSEMBLY & REMOVE. HOWEVER, IF MISSED RECORDING, START WITH BASIC SETTING FOR (57) - BACK OUT 1-3/4 TURNS; FOR (71) - BACK OUT 2 TURNS. DO NOT REPLACE LIMITER CAP AT THIS TIME.
8. UPON COMPLETION OF FLOAT LEVEL ADJUSTMENTS, BE SURE TO SEAL SCREW HEADS OF NEEDLE & SEAT ASSEMBLIES (44, 46) WITH SEALER TO LOCK-IN SETTING.
9. CHECK THROTTLE LINKAGE FOR FREEDOM OF MOVEMENT BEFORE AND AFTER INSTALLING CARBURETOR ON ENGINE.

## ADJUSTMENT DATA



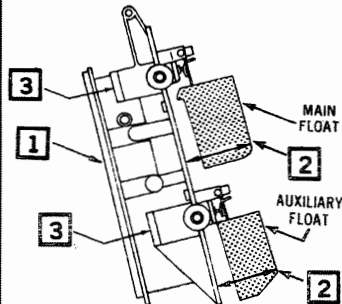
### FLOAT LEVEL (ON CAR) ADJUSTMENT

1. WITH CAR ON LEVEL GROUND AND ENGINE AT NORMAL OPERATING TEMPERATURE, REV ENGINE TO 3000 RPM SEVERAL TIMES, THEN LET IDLE.
2. WHEN FUEL LEVEL STABILIZES, CHECK THAT IT TOUCHES THE DOT ON INSPECTION WINDOW.
3. TO ADJUST, TURN ADJUSTING SCREW AS NECESSARY, NO MORE THAN 1/8 TURN EVERY 15 SECONDS.
4. SEAL ADJUSTING SCREWS WITH PAINT OR SEALER TO PREVENT TURNING.

### FIG. A FLOAT LEVEL ADJUSTMENT

#### MAIN FLOAT (Large)

1. INVERT & PLACE AIR HORN AT ANGULAR POSITION AS SHOWN ON SPRING LOADED NEEDLE. DO NOT COMPRESS SPRING LOADED NEEDLE.
2. MEASURE DISTANCE AS SPECIFIED (SEE SPEC. CHART) FROM BOTTOM OF FLOAT AT TOE END TO GASKET SURFACE OF AIR HORN (AS SHOWN).  
**CAUTION:** DO NOT PRESS NEEDLE INTO SEAT AS DAMAGE TO SPECIAL RUBBER TIP COULD RESULT.
3. IF ADJUSTMENT IS REQUIRED, TURN NEEDLE SEAT. AFTER ADJUSTMENT IS COMPLETED, APPLY SEALER TO TOP OF NEEDLE SEAT TO LOCK IN ADJUSTMENT.



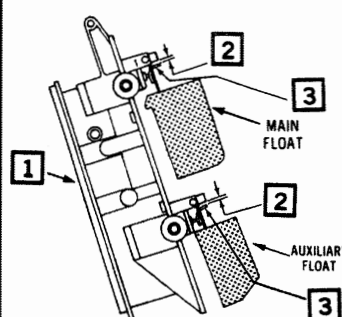
#### AUXILIARY FLOAT (Small)

**NOTE:** FOR ADJUSTING FLOAT LEVEL FOLLOW STEPS 1 & 2 AS SET FORTH ABOVE. SET TO AUXILIARY FLOAT SPECS. (SEE SPEC. CHART).

### FIG. B FLOAT DROP ADJUSTMENT

#### MAIN FLOAT (Large)

1. INVERT & PLACE AIR HORN AT ANGULAR POSITION AS SHOWN. FLOAT SHOULD REST LIGHTLY ON SPRING LOADED NEEDLE. DO NOT COMPRESS SPRING LOADED NEEDLE.
2. MEASURE DISTANCE AS SPECIFIED (SEE SPEC. CHART) BETWEEN POST & PRONG.  
**CAUTION:** DO NOT PRESS NEEDLE INTO SEAT.
3. IF ADJUSTMENT IS REQUIRED, BEND PRONG AS NEEDED.



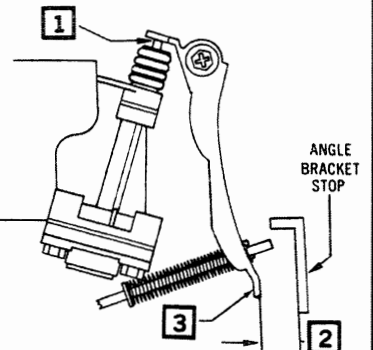
#### AUXILIARY FLOAT (Small)

**NOTE:** FOR ADJUSTING AUXILIARY FLOAT DROP, FOLLOW ABOVE PROCEDURES 1 THRU 3 & SET TO AUXILIARY FLOAT DROP SPECS. (SEE SPEC. CHART).

### FIG. C PUMP LEVER ADJUSTMENT

**NOTE:** COMPLETELY CLOSE THROTTLE VALVES BY TURNING OUT CURB IDLE SPEED SCREW.

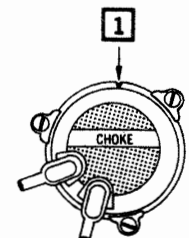
1. AT THIS POINT PUMP LEVER MUST TOUCH PUMP SHAFT.
2. MEASURE AS SPECIFIED (SEE SPEC. CHART) BETWEEN ANGLE BRACKET STOP & PUMP LEVER TAB.
3. IF ADJUSTMENT IS REQUIRED, BEND TAB.



### FIG. D CHOKE ADJUSTMENT (ACCORD)

**NOTE:** WHEN INSTALLING CHOKE COVER ON HOUSING, BE SURE TO PLACE COVER SPRING LOOP ONTO LOWER PIN INSIDE CHOKE HOUSING.

1. ALIGN INDEX MARK ON COVER WITH GRADUATED LINE AS SPECIFIED (SEE SPEC. CHART) ON CHOKE HOUSING.



## ADJUSTMENT DATA (CONT'D)

<p><b>FIG. E CHOKE OPENER (MANUAL CHOKE) (On Car Adjustment)</b></p> <p><b>A. NOTE: SET CHOKE KNOB (ON DASH BOARD) TO FIRST DETENT.</b></p> <ol style="list-style-type: none"> <li>1. PUSH IN ON CHOKE ROD TO FULLY SEAT DIAPHRAGM.</li> <li>2. MEASURE DISTANCE BETWEEN CHOKE VALVE AND AIR HORN USING A GAUGE OR DRILL BIT.</li> <li>3. TO ADJUST, BEND TANG ON RELIEF LEVER (RE-CHECK CLEARANCE).</li> </ol> <p><b>B. NOTE: SET CHOKE KNOB TO SECOND DETENT.</b></p> <ol style="list-style-type: none"> <li>4. REPEAT STEP 1.</li> <li>5. REPEAT STEP 2.</li> <li>6. TO ADJUST, BEND STOP TAB (RE-CHECK CLEARANCE).</li> </ol>	<p><i>Stage 1</i></p>	<p><i>Stage 2</i></p>
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<p><b>FIG. F CHOKE OPENER (Automatic Choke)</b></p> <ol style="list-style-type: none"> <li>1. POSITION FAST IDLE LEVER ON HIGH STEP OF CAM.</li> <li>2. PUSH UP ON LEVER "X" TO FULLY SEAT DIAPHRAGM.</li> <li>3. MEASURE DISTANCE AS SPECIFIED BETWEEN WALL OF AIR HORN &amp; UPPER EDGE OF CHOKE VALVE.</li> <li>4. TO ADJUST, BEND TANG ON LEVER "X".</li> <li>5. WITH DIAPHRAGM FULLY SEATED, PUSH DOWN ON LEVER "Z".</li> <li>6. REPEAT STEP 3.</li> <li>7. TO ADJUST, BEND TANG ON LEVER "Z".</li> </ol>	<p><i>Stage 1</i></p>	<p><i>Stage 2</i></p>
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<p><b>FIG. G CHOKE OPENER ADJUSTMENT</b></p> <ol style="list-style-type: none"> <li>1. TO POSITION FAST IDLE LEVER ON HIGH STEP, OPEN THROTTLE VALVE, CLOSE CHOKE VALVE, THEN CLOSE THROTTLE VALVE. (KEEP THIS POSITION THROUGHOUT THIS ADJUSTMENT).</li> <li>2. APPLY AIR PRESSURE (85 PSI) TO FITTING ON CHOKE OPENER.</li> <li>3. PUSH UP ON LEVER "X" TO FULLY SEAT DIAPHRAGM.</li> <li>4. WHILE LEVER "X" IS IN CONTACT WITH LEVER "Z", MEASURE DISTANCE BETWEEN CHOKE VALVE AND AIR HORN WALL, USING A GAUGE OR DRILL BIT.</li> <li>5. TO ADJUST, BEND LOWER ARM OF LEVER "X".</li> <li>6. DISCONNECT AIR PRESSURE AND PUSH UP LEVER "X" UNTIL STOP MAKES A CONTACT WITH HOUSING.</li> <li>7. REPEAT STEP 4.</li> <li>8. TO ADJUST, BEND UPPER ARM OF LEVER "X".</li> <li>9. HOLD LEVER "X" AGAINST STOP AND RELEASE LEVER "Z". REPEAT STEP 4.</li> <li>10. TO ADJUST, BEND UPPER ARM OF LEVER "Z".</li> </ol>	<p><i>Stage 1</i></p>	<p><i>Stage 2</i></p>	<p><i>Stage 3</i></p>
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# SPECIFICATION CHART<sup>1</sup>

Year	Application	Float Level		Float Drop Main—Aux.	Pump Lever	Choke Opener Fig. E		Choke Opener Fig. F & G			Auto Choke
		Main	Aux.			Stg. 1	Stg. 2	Stg. 1	Stg. 2	Stg. 3	

## HONDA — SPECIFICATION I.D.-A

1982	1300, 1500 Civic -All -A/T -M/T	38.0	34.0	—	11.9	—	—	.86 - 1.0 <sup>2</sup>	1.9 - 2.1	3.8 - 4.3	Index
		38.0	34.0	—	11.9	—	—	1.0 - 1.2	1.9 - 2.1	3.8 - 4.3	Index
1982-81	Accord & Prelude -A/T -M/T	38.0	34.0	—	11.9	—	—	1.0 - 1.2 <sup>3</sup>	1.8 - 2.0	3.8 - 4.3	Index
		38.0	34.0	—	11.9	—	—	1.0 - 1.2 <sup>4</sup>	1.8 - 2.0	3.8 - 4.3 <sup>5</sup>	Index
1981	1300, 1500 -Civic -All -A/T -M/T	38.0	34.0	—	11.9	—	—	.86 - 1.0	1.6 - 1.8	3.6 - 4.0	Index
		38.0	34.0	—	11.9	—	—	.86 - 1.0 <sup>2</sup>	1.6 - 1.8	3.6 - 4.0	Index
1980	1300, 1500 -Civic Accord & Prelude	38.0	34.0	—	11.9	—	—	.76 - .90	1.6 - 1.8 <sup>6</sup>	3.9 - 4.3 <sup>7</sup>	Index
		38.0	34.0	—	11.9	—	—	.61 - .75	1.4 - 1.6	1.9 - 2.2	Index

## HONDA — SPECIFICATION I.D.-B

1979-78	1500, 1600 Civic & Accord	38.0	34.0	1.0	14.8	4.1	2.5	2.5 <sup>8</sup>	1.0 <sup>8</sup>	—	Index
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## HONDA — SPECIFICATION I.D.-C

1979	1800 Accord & Prelude	38.0	34.0	1.0	14.8	—	—	3.0 <sup>8</sup>	0.9 <sup>8</sup>	—	Index
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## HONDA — SPECIFICATION I.D.-D

1977	1500, 1600 CVCC Eng.	38.0	34.0	1.0	12.0	—	2.8 <sup>9</sup>	—	—	—	Index
1976	1500, 1600 CVCC Eng.	38.0	34.0	1.0	8.2	—	3.2 <sup>9</sup>	—	—	—	Index

## HONDA — SPECIFICATION I.D.-E

1983	1300, 1500 Civic -A/T -M/T Accord -A/T -M/T	38.0	34.0	—	11.7	—	—	.86 - 1.0 <sup>2</sup>	1.8 - 2.0	3.8 - 4.3	Index
		38.0	34.0	—	11.7	—	—	1.0 - 1.2	1.8 - 2.0	3.8 - 3.3	Index
		38.0	34.0	—	11.7	—	—	1.0 - 1.2 <sup>3</sup>	1.8 - 2.0	3.8 - 4.3	Index
		38.0	34.0	—	11.7	—	—	1.0 - 1.2 <sup>4</sup>	1.8 - 2.0	3.8 - 4.3 <sup>5</sup>	Index

## HONDA — SPECIFICATION I.D.-F

1985-84	1800 -Accord	<sup>10</sup>	<sup>10</sup>	—	11.7	4.1	3.1	.76 - .90	1.4 - 1.5	4.2 - 4.6	—
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### FOOTNOTES:

- <sup>1</sup> Dimensions are given in millimeters.
- <sup>2</sup> 1500 Hi/Alt. set 1.0 - 1.2mm.
- <sup>3</sup> Federal application, set .86 - 1.0mm.
- <sup>4</sup> Hi/Alt. application set 1.1 - 1.3mm.
- <sup>5</sup> Hi/Alt. application set 4.0 - 4.5mm.
- <sup>6</sup> Federal Civic 1500 set 1.4 - 1.6mm.
- <sup>7</sup> Federal Civic 1500 set 3.4 - 3.8mm.
- <sup>8</sup> Refer to Fig. F.
- <sup>9</sup> Follow step B, Fig. E.
- <sup>10</sup> Adjustment on car Fig. AA.

### ABBREVIATIONS:

- |         |                        |
|---------|------------------------|
| A/T     | Automatic Transmission |
| Fed.    | Federal                |
| Hi/Alt. | High Altitude          |
| M/T     | Manual Transmission    |