

K - SENSOR RANGE CHARTS

Article Text

1993 Honda Prelude

For Cadi Centre Nsk CA 95051

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ARTICLE BEGINNING

1993 ENGINE PERFORMANCE

Honda Sensor Operating Range Charts

Accord, Civic, Civic Del Sol, Prelude

INTRODUCTION

Sensor operating range information can help determine if a sensor is out of calibration. Although an out-of-calibration sensor may not set a trouble code, it may cause drive ability problems.

NOTE: Unless stated otherwise in test procedure, perform all voltage tests using a Digital Volt-Ohmmeter (DOOM) with a minimum 10-megohms input impedance.

COOLANT TEMPERATURE (ACT) SENSOR RESISTANCE TEST TABLE(1)

AA
Temperature - oF (oC) Ohms

-4 (-20)	.....	15,000-18,000
68 (20)	.....	1000-4000
176 (80)	.....	200-400

(1) - Measure resistance across sensor terminals.

AA

INTAKE AIR TEMPERATURE (NAT) SENSOR RESISTANCE TEST TABLE(1)

AA
Temperature - oF (oC) Ohms

-4 (-20)	.....	15,000-18,000
68 (20)	.....	1000-4000
176 (80)	.....	200-400

(1) - Measure resistance across sensor terminals.

AA

MAP SENSOR VOLTAGE TEST TABLE (1)

AA
Vacuum Applied - In. Hg
Volts

0	.....	2.8-3.0
5	.....	2.3-2.5
10	.....	1.8-2.0

15	.....	1.3-1.5
20	.....	.8-1.0
25	.....	.3-.5

(1) - Measure voltage at appropriate ACM terminals. See L - WIRING DIAGRAMS article in the ENGINE PERFORMANCE Section.

AA

ERG LIFT SENSOR VOLTAGE TEST TABLE (1)

AA

Position Volts (Approximate)

Fully Closed	.....	1.2
Fully Open	.....	4.3

(1) - Measure voltage at appropriate ACM terminals. See L - WIRING DIAGRAMS article in the ENGINE PERFORMANCE Section. Voltage should increase smoothly as vacuum is applied.

AA

OXYGEN SENSOR VOLTAGE TEST TABLE (1)

AA

Condition Volts

Lean.....	Less Than 0.4
Rich.....	Greater Than 0.6

(1) - Measure voltage between ground and oxygen sensor terminal using a high-impedance DOOM.

AA

THROTTLE ANGLE (POSITION) SENSOR SPECIFICATIONS TABLE

AA

Condition (1) Volts

Throttle Valve	
Fully Closed	..... .5
Wide Open	..... 4.5

(1) - Voltage change from fully closed to wide open should be smooth.

AA

VEHICLE SPEED SENSOR VOLTAGE TEST TABLE (1)

AA

Application Volts

Accord	..... (2) 0-12
Civic & Civic Del Sol	..... (2) 0-5 K - SEN

Prelude

F22A1 & H23A1 Engines (2) 0-5
H22A1 Engine (2) 0-12

(1) - Back Probe terminals at sensor.

(2) - Pulses between specification limits with sensor turning.

AA

END OF ARTICLE