

K - SENSOR RANGE CHARTS

1996 Subaru SVX

1996 ENGINE PERFORMANCE
Subaru Sensor Operating Range Charts

SVX

INTRODUCTION

Sensor operating range information can help determine if a sensor is out of calibration. An out-of-calibration sensor may not set a DTC, but it may cause driveability problems.

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

Barometric Pressure (BARO) Sensor
See appropriate G - TESTS W/CODES article for testing information.

CAMSHAFT POSITION (CMP) SENSOR VOLTAGE TABLE

Application	Wire Colors	(1) Volts
SVX	Black & White	0.1 (Minimum)
(1) - Turn ignition on. Voltage should fluctuate with each engine revolution. For further testing, see appropriate G - TESTS W/CODES article.		

CRANKSHAFT POSITION (CKP) SENSOR VOLTAGE TABLE (1)

Application	Wire Colors	Volts
SVX	Black & Yellow	0.1 (Minimum)
(1) - Turn ignition on. Voltage should fluctuate with each engine revolution. For further testing, see appropriate G - TESTS W/CODES article.		

EGR Temperature Sensor
For testing information, see appropriate G - TESTS W/CODES article.

Engine Coolant Temperature ECT Sensor
For testing information, see appropriate G - TESTS W/CODES article.

KNOCK SENSOR (KS) RESISTANCE TABLE (1)

Application	Ohms
SVX	532,000-588,000
(1) - Check resistance between ground and sensor connector terminal.	

MASS AIRFLOW SENSOR VOLTAGE TABLE (1)

Application	Volts
SVX	
ECM Pin B5 & Ground (2)	
Engine Off	0.0-0.3
At Idle	0.8-1.2
ECM Pin B6 & Ground (2)	
Engine Off	Zero
At Idle	Zero
ECM Pin B11 & Ground (2)	
Engine Off	10-13
At Idle	13-14

- (1) - For further testing, see G - TESTS W/CODES article.
(2) - Connect DVOM between indicated ECM terminal and a good known ground.

OXYGEN SENSOR (O2S) VOLTAGE TABLE

Application	(1) Volts
All Models	
Front & Rear	0.1-0.9

- (1) - With engine warm and running, check voltage between oxygen sensor connector terminal and ground.

THROTTLE POSITION (TP) SENSOR RESISTANCE TABLE (1)

TP Connector (2) Terminals	Ohms
Total Resistance	
Black Wire & Red Wire	5000
Variable Resistance	
Throttle Closed	
Black Wire & White Wire	10,000-12,000
Throttle Open	
Black Wire & White Wire	3000-5000

- (1) - For further testing, see appropriate G - TESTS W/CODES article.
(2) - Unplug TP sensor connector. At component side of connector, connect DVOM between the indicated terminals.

VEHICLE SPEED SENSOR (VSS) VOLTAGE TABLE (1)

Application	ECM Connector Pin No.	Wire Color
SVX	11 (12-Pin)	YEL/RED

- (1) - Turn ignition on. Connect DVOM between indicated terminal and ground. Slowly rotate drive wheels. Voltage should fluctuate between zero and about 5 volts.
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