

EV Product Line Trouble Shooting Steps

Pressure Gauge

Check Pressure Sensor Output

1. With power off, disconnect 2 wire connector at the pressure sensor.
2. Using a multimeter on the resistance setting check 2 wire connector resistance going to the pressure sensor.
3. This is the output for the pressure sensor.

INDICATION, psi	*0	*20	*60	*80	100
SIMULATED RESISTANCE, Ohms	10±3	30±3	70±3	90±3	110±3
ANGULAR TOLERANCE	±3'	±3'	±3'	±3'	±3'
POINTER DIRECTION	DESCENDING	DESCENDING	ASCENDING	ASCENDING	ASCENDING

4. If the pressure sensor output is at 7Ω or more then start the engine and check to see if the pressure sensor output change.
5. Use the pressure sensor output chart to see if the pressure sensor output matches the pressure of the engine.
6. If multimeter measures an open or a high resistance over 114Ω the pressure sensor could have a problem.

Check Gauge Resistance

1. With power off disconnect the four wire connector from wire harness that goes to amplifier box
2. Check wires on studs to make sure wire colors match labels on studs.
Green (GN) and Yellow (Y) and Gray (GY) and White (W)
3. Using a multimeter on the resistance setting check gauge resistance.
4. Connect multimeter leads across studs label green (GN) and yellow (Y).
Resistance should measure around 86Ω
5. Connect multimeter leads across studs label gray (GY) and white (W).
Resistance should measure around 78Ω
6. If mutlimeter measures open in either pair the gauge could have a problem.

Check Amplifier Box

1. With power off disconnect 2 wire connector at the pressure sensor.
2. Make sure the four wire connector going to the gauge is connected.
3. Turn power to gauge on.
4. Using a multimeter on the voltage setting check voltage at the gauge.

	Green(+)/Yellow(-)	Temperature Sensor Output	Gray(+)/White(-)
	2.1 Volts	Open	-1.7 Volts
#	2.1 Volts	10 PSI	-1.3 Volts
#	2.1 Volts	20 PSI	0.6 Volts
#	-1.9 Volts	60 PSI	1.5 Volts

Connect pressure sensor for these measurements.