

2000 Lexus RX300

P0171 Fuel System Too Lean Bank 1

P1130 A/F Sensor Circuit Range/Performance B1-S1

<input type="checkbox"/> RPM	1001	<input type="checkbox"/> O2 B1-S2(V)	0.89
<input type="checkbox"/> AFS B1-S1(V)	3.62	<input type="checkbox"/> AFS B2-S1(V)	3.3
<input type="checkbox"/> ST TRIM B1(%)	19.5	<input type="checkbox"/> LT TRIM B1(%)	52.3
<input type="checkbox"/> ST TRIM B2(%)	-4.7	<input type="checkbox"/> LT TRIM B2(%)	12.5
<input type="checkbox"/> AF FT B1-S1(%)	1.11	<input type="checkbox"/> AF FT B2-S1(%)	1
<input type="checkbox"/> FUEL SYS1	CL	<input type="checkbox"/> FUEL SYS2	CL
<input type="checkbox"/> AF1 TEST	CMPLT	<input type="checkbox"/> AF2 TEST	CMPLT
<input type="checkbox"/> O2S(AFS) HTR	INCMP	<input type="checkbox"/> O2S(AFS) MON	INCMP

This was taken after adding propane into the intake.

<input type="checkbox"/> RPM	809	<input type="checkbox"/> O2 B1-S2(V)	0.8
<input type="checkbox"/> AFS B1-S1(V)	3.75	<input type="checkbox"/> AFS B2-S1(V)	3.31
<input type="checkbox"/> ST TRIM B1(%)	19.5	<input type="checkbox"/> LT TRIM B1(%)	52.3
<input type="checkbox"/> ST TRIM B2(%)	-17.2	<input type="checkbox"/> LT TRIM B2(%)	-9.4
<input type="checkbox"/> AF FT B1-S1(%)	1.15	<input type="checkbox"/> AF FT B2-S1(%)	1
<input type="checkbox"/> FUEL SYS1	CL	<input type="checkbox"/> FUEL SYS2	CL
<input type="checkbox"/> AF1 TEST	CMPLT	<input type="checkbox"/> AF2 TEST	CMPLT
<input type="checkbox"/> O2S(AFS) HTR	INCMP	<input type="checkbox"/> O2S(AFS) MON	INCMP

Notice how fuel trim for bank 2 changed from +8% to -28% while bank 1 stays the same +71%.

Now we can ignore code P0171.

This test revealed a sensor problem (or its circuit).

This was taken with a new sensor installed.

<input type="checkbox"/> RPM	707	<input type="checkbox"/> O2 B1-S2(V)	0.155
<input type="checkbox"/> AFS B1-S1(V)	3.29	<input type="checkbox"/> AFS B2-S1(V)	3.3
<input type="checkbox"/> ST TRIM B1(%)	0.8	<input type="checkbox"/> LT TRIM B1(%)	0
<input type="checkbox"/> ST TRIM B2(%)	2.3	<input type="checkbox"/> LT TRIM B2(%)	3.9
<input type="checkbox"/> AF FT B1-S1(%)	1	<input type="checkbox"/> AF FT B2-S1(%)	1
<input type="checkbox"/> FUEL SYS1	CL	<input type="checkbox"/> FUEL SYS2	CL
<input type="checkbox"/> EGR SYS	OFF	<input type="checkbox"/> AF1 TEST	CMPLT
<input type="checkbox"/> AF2 TEST	CMPLT	<input type="checkbox"/> O2S(AFS) HTR	INCMP

RESULT

Bad O2 Sensor.