

# 2015 L83 ECM CONNECTOR X3

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Pin	Color	Circuit	Function
1	YE/BN	331	Oil Pressure Sensor Signal
2	WH/RD	2705	Oil Pressure Sensor 5 Volt Reference
3	BN/YE	2161	Fuel Rail Pressure Sensor Signal Pin 2
4	-	-	EMPTY
5	-	-	EMPTY
6	-	-	EMPTY
7	-	-	EMPTY
8	D-BU	410	Engine Coolant Temperature Sensor Signal Pin B
9	-	-	EMPTY
10	VT/D-BU	6270	Crankshaft 58X Sensor 5 Volt Reference Pin 3
11	L-GN/D-BU	2123	Ignition Control (3)
12	YE/D-BU	2124	Ignition Control (4)
13	D-BU/GY	2125	Ignition Control (5)
14	BN/D-BU	2126	Ignition Control (6)
15	BK/GY	2130	Ignition Control Low Reference Bank 2
16	YE	7301	High Pressure Fuel Pump Actuator High - Control Pin 1
17	BK/PU	2755	Oil Pressure Sensor Low Reference
18	-	-	EMPTY
19	-	-	EMPTY
20	-	-	EMPTY
21	-	-	EMPTY
22	-	-	EMPTY
23	-	-	EMPTY
24	BK/BN	2761	Coolant Temperature Sensor Low Reference Pin A
25	BK/PU	6272	Crankshaft 58X Sensor Low Reference Pin 2
26	L-GN	6271	Crankshaft 58X Sensor Signal Pin 1
27	D-BU/WH	2122	Ignition Control (2)
28	L-GN/GY	2127	Ignition Control (7)
29	VT/WH	2128	Ignition Control (8)
30	D-BU/VT	2121	Ignition Control (1)
31	BK/D-BU	2129	Ignition Control Low Reference Bank 1
32	VT/BK	7300	High Pressure Fuel Pump Actuator Low - Control Pin 2
33	YE/VT	5275	Camshaft Position Intake Sensor Pin 3
34	GY/D-BU	5300	Camshaft Position Intake Sensor Control Pin 1
35	-	-	EMPTY
36	-	-	EMPTY
37	-	-	EMPTY
39	VT/BN	5284	Camshaft Phaser Intake Solenoid Pin 2
40	-	-	EMPTY
41	-	-	EMPTY
42	-	-	EMPTY
43	GY	5493	Cylinder Shutoff Solenoid Control (3)
44	YE/D-BU	5494	Cylinder Shutoff Solenoid Control (4)
45	GY/D-BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4
46	D-BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2
47	L-GN/VT	4806	Direct Fuel Injector (DFI) High Voltage Control Cylinder 6
48	GY	4808	Direct Fuel Injector (DFI) High Voltage Control Cylinder 8
49	L-GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3
50	YE/GY	4807	Direct Fuel Injector (DFI) High Voltage Control Cylinder 7
51	WH/L-GN	4805	Direct Fuel Injector (DFI) High Voltage Control Cylinder 5
52	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1
53	BK/L-GN	5301	Camshaft Position Sensor Low Reference Pin 2
54	-	-	EMPTY
55	-	-	EMPTY
56	-	-	EMPTY
57	-	-	EMPTY
58	-	-	EMPTY
59	BK/BN	6753	Cam Phaser W Low Reference Pin 1
60	-	-	Not Occupied
61	-	-	EMPTY
62	-	-	EMPTY
63	D-BU	5491	Cylinder Shutoff Solenoid Control (1)
64	L-GN	5492	Cylinder Shutoff Solenoid Control (2)
65	D-BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4
66	BN/L-GN	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2
67	VT	4906	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 6
68	WH/L-GN	4908	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 8
69	L-GN/BK	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3
70	WH/YE	4907	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 7
71	L-GN/WH	4905	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 5
72	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1
73	BK/WH	451	Signal Ground

x160 - 6 at back of intake to fuel injection

x161 - 12 at back of intake to fuel injection

x161 - 11 at back of intake to fuel injection

x154 timing cover jumper

x154 timing cover jumper

x154 timing cover jumper

x154 timing cover jumper

x154 timing cover jumper