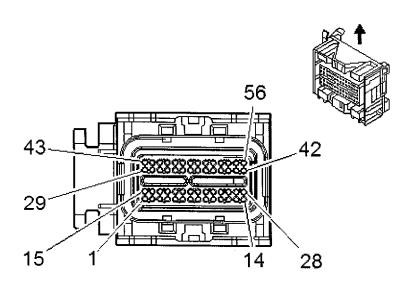
2016 Chevrolet Express | Express, Savana Service Manual 8765455 | Engine/Propulsion |
Engine Controls and Fuel - 4.8L L20 or 6.0L L96 LC8 | Schematic and Routing Diagrams | **Document ID: 3993322**

K20 Engine Control Module X1 (L20, L96, or LC8)





Connector Part Information

Harness Type: EngineOEM Connector: 13510837Service Connector: 88988373

• Description: 56-Way F 0.64 Series, Sealed (BU with BU Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575812	J-35616- 64B (LT BU)	J-38125- 213	Not Available	Not Available	Not Available	Not Available

K20 Engine Control Module X1 (L20, L96, or LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	–	-	_	Not Occupied		
2	0.5	L-BU	116201	5 General Motors. All rights reserved.	I	_

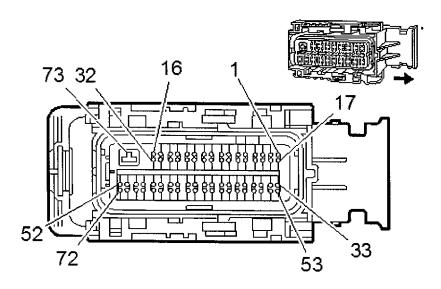
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
				Accelerator Pedal Position Signal (2)		
3	0.8	YE	492	Mass Air Flow Sensor Signal	·	
4 - 7	_	-	_	Not Occupied	-	
8	0.8	L-BU	7564	Humidity Sensor Signal	I	_
9	_	_		Not Occupied		<u></u>
10	0.5	D-BU	1161	Accelerator Pedal Position Signal (1)	I	_
11	0.8	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	I	_
12	0.8	OG/BK	380	A/C Refrigerant Pressure Sensor Signal	I	_
13	0.8	TN	5514	A/C Refrigerant Pressure Sensor Low Reference	I	_
14 - 15		<u> </u>	_	Not Occupied	-	
16	0.5	TN	1274	Accelerator Pedal Position 5 Volt Reference (2)	I	_
17		_	_	Not Occupied	-	_
18	0.5	D-BU	5985	Accessory Wakeup Serial Data	I	<u> </u>
19	0.5	PK	439	Run/Crank Ignition 1 Voltage	I	
20	0.5	RD/WH	440	Battery Positive Voltage	I	
21 - 23		_	_	Not Occupied	_	_
24	0.5	WH/BK	1164	Accelerator Pedal Position 5 Volt Reference (1)	I	_
25	0.8	GY/WH	3201	Throttle Inlet Absolute Pressure Sensor 5 Volt Reference	I	_
26	0.8	GY	2700	A/C Pressure Sensor 5 Volt Reference	I	
27	0.5	YE/BK	625	Starter Enable Relay Control	I	_

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
28	0.5	D- GN/WH	465	Fuel Pump Primary Relay Control	I	_
29	0.5	TN/BK	2500	High Speed GMLAN Serial Data (+) (1)	I	_
30	0.5	PU	1272	Accelerator Pedal Position Low Reference (2)	Ï	_
31	0.8	TN	2760	Intake Air Temperature Sensor Low Reference	I	_
32	0.8	L-BU/BK	6813	Coolant Temperature Sensor 2 Low Reference	I	_
33	0.5	L- BU/WH	6311	Cruise/ETC/TCC Brake Signal	I	
34	0.5	OG/BK	1786	Transmission Park/Neutral Signal (1)	I	
35 - 37	_	_	_	Not Occupied		_
38	0.5	BN	1271	Accelerator Pedal Position Low Reference (1)	I	_
39	_	_	_	Not Occupied	-	_
40	0.5	YE	5991	Powertrain Relay Coil Control	Ī	_
41 - 42	_	_	_	Not Occupied	_	_
43	0.5	TN	2501	High Speed GMLAN Serial Data (-) (1)	I	_
44	_	_	_	Not Occupied		_
45	0.8	TN/WH	472	Intake Air Temperature Sensor Signal	I	
46	0.8	L-GN	2032	Coolant Temperature Sensor Signal	I	_
47	0.5	0G	225	Generator Turn On Signal	, I	_
48 - 49	_			Not Occupied		

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
50	0.5 0.5	YE/BK D- GN/WH	1827 817	Vehicle Speed Signal	I	_
51		_	_	Not Occupied	-	
52	0.5	BN/WH	419	Check Engine Indicator Control	I	
53	0.5	D- GN/WH	459	A/C Compressor Clutch Relay Control	I	_
54 - 55	_	-	_	Not Occupied	_	_
56	0.5	WH	1310	EVAP Canister Vent Solenoid Control	I	_

2016 Chevrolet Express | Express, Savana Service Manual 8765455 | Engine/Propulsion |
Engine Controls and Fuel - 4.8L L20 or 6.0L L96 LC8 | Schematic and Routing Diagrams | **Document ID: 3993326**

K20 Engine Control Module X2 (L20, L96, or LC8)





Connector Part Information

Harness Type: EngineOEM Connector: 15499466Service Connector: 88988931

• Description: 73-Way F 0.64, 2.8 Series, Sealed (BK with BK Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575812	J-35616- 64B (LT BU)	J-38125- 213	Not Available	Not Available	Not Available	Not Available
II	13579770	J-35616 - 35 (VT)	J-38125- 11A	7116- 4152-02	Yazaki 9	А	5

K20 Engine Control Module X2 (L20, L96, or LC8)

	Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
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Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	PU	2121	Ignition Control (1)	I	
2	0.5	TN	1744	Fuel Injector Control (1)	I	_
3	0.5	D- BU/WH	878	Fuel Injector Control (8)	I	_
4	0.5	OG/BK	877	Fuel Injector Control (7)	I	_
5	0.5	L- GN/BK	1745	Fuel Injector Control (2)	I	
6	0.5	YE/BK	846	Fuel Injector Control (6)	I	_
7	0.5	TN/WH	845	Fuel Injector Control (5)	I	
8	0.5	L-BU/BK	844	Fuel Injector Control (4)	I	_
9	0.5	PK/BK	1746	Fuel Injector Control (3)	I	_
10	_	_	-	Not Occupied	_	_
11	0.8	PÜ	5284	Camshaft Phaser Intake Solenoid (1)	I	
12 - 14		l		Not Occupied	_	_
15	0.5	YE	581	Throttle Actuator Control Open	• I	_
16	0.5	BN	582	Throttle Actuator Control Close	I	_
17	8.0	PU/WH	2128	Ignition Control (8)	I	_
18	0.8	D- GN/WH	2124	Ignition Control (4)	I	
19	0.8	BN/WH	2130	Ignition Control Low Reference Bank 2	I	_
20	0.8	GY/BK	6272	Crankshaft 60X Sensor Low Reference	I	_
21 - 23				Not Occupied	<u>—</u>	_
24	0.8	BN	6266	Camshaft CAM W Ground	I	_
25	0.8	ВК	2755	Oil Pressure Sensor Low Reference	· I	_

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
26 - 27	_		_	Not Occupied		_
28	0.8	PK	1339	Run/Crank Ignition 1 Voltage	I	
29	0.8	TN	2199	Camshaft Phaser Solenoid Low Reference	I	_
30 - 32	_	<u>-</u>	_	Not Occupied	_	
33	0.8	OG	2127	Ignition Control (7)	I	_
34	0.8	D-GN	2125	Ignition Control (5)	· I	_
35	0.8	BN	2129	Ignition Control Low Reference Bank 1	I	_
36	0.8	PU/WH	6270	Crankshaft 60X Sensor 5 Volt Reference	I	
37 - 39	-	_	_	Not Occupied		_
40	0.8	D-BU	6259	Camshaft CAM W Control	I	_
41	0.8	GY	2705	Oil Pressure Sensor 5 Volt Reference	I	_
42			_	Not Occupied	_	
43	0.5	GY	2701	Throttle Position Sensor 5 Volt Reference	I .	_
44	0.5	TN	2752	Throttle Position Sensor Low Reference	I	_
45	0.5	D-GN	485	Throttle Position Sensor Signal (1)	I	_
46		_	_	Not Occupied		
47	0.8	TN	1664	Heated Oxygen Sensor Low Signal Bank 1 Sensor (1)	I	_
48	0.8	TN	1667	Heated Oxygen Sensor Low Signal Bank 2 Sensor (1)	I	
49	0.8	GY	1716	Knock Sensor Low Reference (1)	I	
50	0.8	GY	2303	Knock Sensor Low Reference (2)	I	_

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
51	_	-	_	Not Occupied	-	_
52	0.8	L-GN	3212	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor (1)	I	_
53	0.8	OG/WH	2122	Ignition Control (2)	I	
54	0.8	L- BU/WH	2126	Ignition Control (6)	I	_
55	0.8	L-BU	2123	Ignition Control (3)	I	_
56	0.8	WH/BK	6271	Crankshaft 60X Sensor Signal	I	_
57 - 59	_	_	_	Not Occupied	•	_
60	0.8	D- BU/WH	6265	Camshaft CAM W Signal	I	
61	0.8	TN/WH	331	Oil Pressure Sensor Signal	I	_
62 - 66	_	_	_	Not Occupied	_	_
67	0.8	PU/WH	1665	Heated Oxygen Sensor High Signal Bank 1 Sensor (1)	I	
68	0.8	PU	1666	Heated Oxygen Sensor High Signal Bank 2 Sensor (1)	I	_
69	0.8	D-BU	496	Knock Sensor Signal (1)	I	_
70	0.8	L-BU	1876	Knock Sensor Signal (2)	I	_
71		<u>—</u>		Not Occupied	_	_
72	0.8	GY/WH	3113	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor (1)	I	
73	3	BK/WH	1551	Signal Ground	II	_