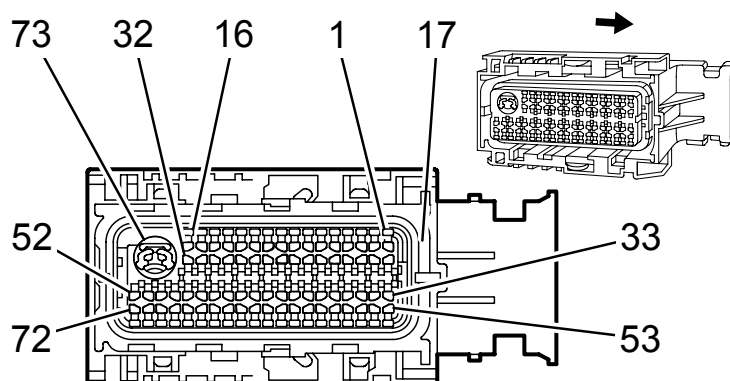


 2014 Chevrolet Orlando | Document ID: 3349744**K20 Engine Control Module X1****Connector Part Information**

- Harness Type: Engine
- OEM Connector: 34566-0303
- Service Connector: 13574782
- Description: 73-Way F 0.64 2.8 Series, Sealed (BK with BU Terminal Position Assurance Lock)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575575	J-35616-64B (L-BU)	J-38125-213	33467-0005	23	J	J
II	13575575	J-35616-64B (L-BU)	J-38125-213	33467-0005	23	K	K
III	13575291	Pending	Pending	Not Available	Not Available	Not Available	Not Available

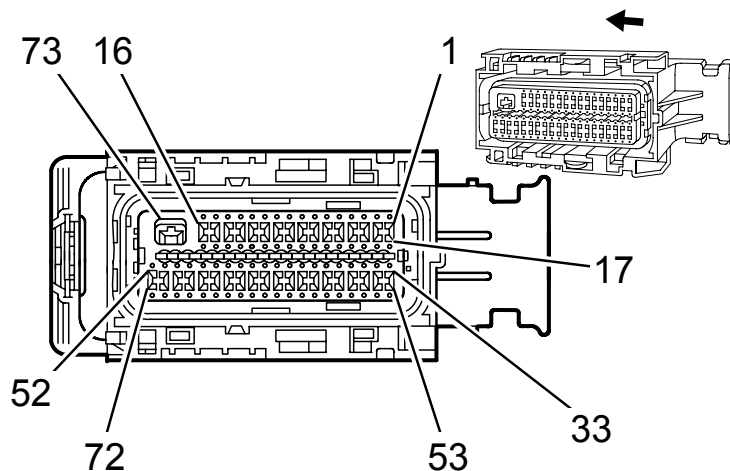
K20 Engine Control Module X1

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Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-5	-	-	-	Not Occupied	-	-
6	0.5	GN	380	A/C Refrigerant Pressure Sensor Signal	I	—
7-8	-	-	-	Not Occupied	-	-
9	0.5	BU/WH	890	Fuel Tank Pressure Sensor Signal	I	—
10	0.5	YE/RD	2709	5-Volt Reference 1	I	—
11-13	-	-	-	Not Occupied	-	-
14	0.5	WH/RD	1164	5-Volt Reference 4	I	—
15	0.5	YE/WH	1161	Accelerator Pedal Position Signal (1)	I	—
16-20	-	-	-	Not Occupied	-	-
21	0.5	BN/RD	2700	5-Volt Reference 1	I	—
22	0.5	BK/BN	5514	Low Reference	I	—
23-24	-	-	-	Not Occupied	-	-
25	0.5	BU/VT	1589	Primary Fuel Level Sensor Signal	I	—
26	0.5	BK/GN	6281	Low Reference	I	—
27-29	-	-	-	Not Occupied	-	-
30	0.5	BK/BU	1271	Low Reference	I	—
31	-	-	-	Not Occupied	-	-
32	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	I	—
33	0.5	BN/RD	1274	5-Volt Reference 3	I	—
34	0.5	GN/WH	1162	Accelerator Pedal Position Signal (2)	I	—
35-38	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
39	0.5	BU	2500	High Speed GMLAN Serial Data (+) (1)	I	—
40	0.5	WH	2501	High Speed GMLAN Serial Data (–) (1)	I	—
41	-	-	-	Not Occupied	-	-
42	0.5	GN/VT	335	Low Speed Cooling Fan Relay Control	I	—
43	-	-	-	Not Occupied	-	-
44	0.5	GN/GY	465	Fuel Pump Primary Relay Control	I	—
45	-	-	-	Not Occupied	-	-
46	0.5	BN/WH	419	Check Engine Indicator Control	I	—
47	0.5 0.5	RD GY/RD	5359 6109	Brake Apply Sensor Supply Voltage Clutch Apply Sensor Voltage Reference	I	MH8 MZ0
48	0.5 0.5	YE YE	5361 6111	Brake Apply Sensor Signal Clutch Apply Sensor Signal	I	MH8 MZ0
49– 50	-	-	-	Not Occupied	-	-
51	0.75 0.75	VT/BK GY/BU	3 7380	Run/Crank Ignition 1 Voltage Strap Driver Seat Belt Tensioner Low Control	-	MH8 MZ0
52	0.75	VT/BK	3	Run/Crank Ignition 1 Voltage	-	—
53	0.5	BK/VT	1272	Low Reference	I	—
54– 56	-	-	-	Not Occupied	-	-
57	0.5	WH/BU	3611	Cruise/ETC/TCC Brake Signal	I	—
58	-	-	-	Not Occupied	-	-
59	0.5	GN/VT	335	Low Speed Cooling Fan Relay Control	I	—
60– 61	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
62	0.75	VT/BU	5291	Powertrain Main Relay Fused Supply (2)	-	—
63	0.5	YE	447	Starter Relay Coil Control	I	—
64–65	-	-	-	Not Occupied	-	-
66	0.75	WH	1310	EVAP Canister Vent Solenoid Control	-	—
67	-	-	-	Not Occupied	-	-
68	0.5 0.5	GY BK/GY	5360 6110	Brake Apply Sensor Low Reference Clutch Apply Sensor Low Reference	I	MH8 MZ0
69	-	-	-	Not Occupied	-	-
70	0.5	VT/YE	5985	Accessory Wakeup Serial Data	-	—
71	-	-	-	Not Occupied	-	-
72	0.5	BN/WH	5069	Engine Main Relay Coil Control	-	—
73	1.5	VT/BU	5290	Ignition 1 Voltage	III	—

K20 Engine Control Module X2**Connector Part Information**

- Harness Type: Engine
- OEM Connector: 34566-0103
- Service Connector: 13577391
- Description: 73-Way F Sealed (BK) with (BK) case

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575575	J-35616-64B (L-BU)	J-38125-213	33467-0005	23	J	J
II	13575291	Pending	Pending	Not Available	Not Available	Not Available	Not Available

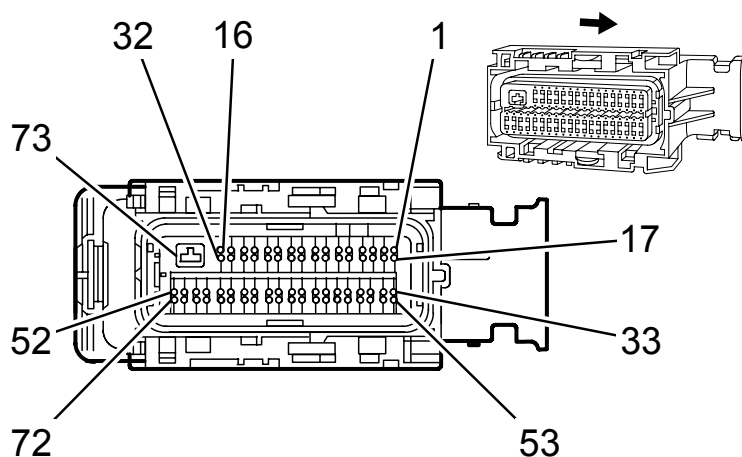
K20 Engine Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-2	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
3	0.5	BU/WH	2918	Fuel Rail Pressure Sensor Signal	I	—
4	-	-	-	Not Occupied	-	-
5	0.5	YE/BN	3604	Output Speed Sensor 5 Volt Reference	I	MZ0
6-7	-	-	-	Not Occupied	-	-
8	0.5	GY/BU	6358	Output Speed Signal	I	MZ0
9	-	-	-	Not Occupied	-	-
10	0.5	VT/GY	3110	Heated Oxygen Sensor High Signal Bank 1 Sensor (1)	I	—
11	-	-	-	Not Occupied	-	-
12	0.5	VT/BU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor (2)	I	—
13-15	-	-	-	Not Occupied	-	-
16	0.5	GY/BK	561	Throttle Relaxer Motor Low Reference	I	—
17	-	-	-	Not Occupied	-	-
18	0.5	BN/RD	2917	Fuel Rail Pressure Sensor (5) Volt Reference	I	—
19	0.5	BK/GN	2919	Fuel Rail Pressure Sensor Low Reference	I	—
20	-	-	-	Not Occupied	-	-
21	0.5	WH/VT	6356	Output Speed Low Signal	I	MZ0
22	-	-	-	Not Occupied	-	-
23	0.5	GY/BK	6316	Engine Reverse Gear Switch Signal	I	MZ0
24-25	-	-	-	Not Occupied	-	-
26	0.5	WH/BK	3111	Heated Oxygen Sensor Low Signal Bank 1 Sensor (1)	I	—
27	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
28	0.5	WH/YE	3121	Heated Oxygen Sensor Low Signal Bank 1 Sensor (2)	I	—
29–31	-	-	-	Not Occupied	-	-
32	0.5	WH	560	Throttle Relaxer Motor Supply Voltage	I	—
33	-	-	-	Not Occupied	-	-
34	0.5	BN/RD	2701	5-Volt Reference 4	I	—
35	-	-	-	Not Occupied	-	-
36	0.5	VT/GY	496	Knock Sensor Signal (1)	I	—
37–40	-	-	-	Not Occupied	-	-
41	0.5	GY/WH	3113	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor (1)	I	—
42	0.5	GY/WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor (2)	I	—
43	0.5	BK/GN	432	Manifold Absolute Pressure Sensor Signal	I	—
44	0.5	GY/RD	2704	5-Volt Reference 3	I	—
45–48	-	-	-	Not Occupied	-	-
49	0.5	WH/BU	6289	Induction Air Temperature Sensor Signal	I	—
50	-	-	-	Not Occupied	-	-
51	0.5	BK/GY	428	EVAP Canister Purge Solenoid Control	I	—
52	0.5	GN/WH	492	Mass Air Flow Sensor Signal	I	—
53	0.5	BN	25	Charge Indicator Control	I	—
54	0.5	BK//BN	2752	Low Reference	I	—
55	0.5	GY	23	Generator Field Duty Cycle Signal	I	—
56	0.5	WH/GY	1876	Knock Sensor Signal (2)	I	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
57	-	-	-	Not Occupied	-	-
58	0.5	WH/GY	1786	Transmission Park/Neutral Signal (1)	I	MH8
59-62	-	-	-	Not Occupied	-	-
63	0.5	- GN/WH	469	Low Reference	-	—
64-68	-	-	-	Not Occupied	-	-
69	0.5	BK/VT	2760	Low Reference	-	—
70	0.5	BN/GN	485	Throttle Position Sensor Signal (1)	-	—
71-72	-	-	-	Not Occupied	-	-
73	1.5	BK	450	Signal Ground	II	—

K20 Engine Control Module X3**Connector Part Information**

- Harness Type: Forward Lamp
- OEM Connector: 34566-0203
- Service Connector: 88988372
- Description: 73-Way F MX123 34566 Series (BK with GY Terminal Position Assurance Lock)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575575	J-35616-64B (L-BU)	J-38125-213	33467-0005	23	J	J
II	13575575	J-35616-64B (L-BU)	J-38125-213	33467-0005	23	K	K
III	13575291	Pending	Pending	Not Available	Not Available	Not Available	Not Available

K20 Engine Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-7	-	-	-	Not Occupied	-	-
8	0.5	BU	410	Engine Coolant Temperature Sensor Signal	I	—
9	0.5	YE/BU	231	Oil Pressure Switch Signal	I	—
10	0.5	VT/BU	6270	Crankshaft 60X Sensor Voltage	I	—
11-15	-	-	-	Not Occupied	-	-
16	0.75	YE	7301	High Pressure Fuel Pump Actuator High – Control	II	—
17-23	-	-	-	Not Occupied	-	-
24	0.5	BK/BN	2761	Low Reference	I	—
25	0.5	GN	6271	Crankshaft 60X Sensor Signal	I	—
26	0.5	BK/VT	6272	Crankshaft 60X Sensor Low Reference	I	—
27	0.5	BU/WH	2122	Ignition Control (2)	I	—
28	0.5	YE/BU	2124	Ignition Control (4)	I	—
29	0.5	GN/BU	2123	Ignition Control (3)	I	—
30	0.5	BU/VT	2121	Ignition Control (1)	I	—
31	0.5	BK/GY	453	Ignition Control Low Reference	I	—
32	0.75	VT/BK	7300	High Pressure Fuel Pump Actuator Low – Control	II	—
33	0.5	YE/WH	5275	Camshaft Position Intake Sensor (1)	I	—
34	0.5	GY/BU	5300	5-Volt Reference 1	I	—
35	0.5	VT/BK	5273	Camshaft Position Exhaust Sensor (1)	I	—
36-38	-	-	-	Not Occupied	-	-
39	0.5	GY/BU	5284	Camshaft Phaser Intake Solenoid (1)	I	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
40	0.5	GY/YE	5282	Camshaft Phaser Exhaust Solenoid (1)	I	—
41–45	-	-	-	Not Occupied	-	-
46	0.75	BN/YE	844	Fuel Injector Control (4)	II	—
47	-	-	-	Not Occupied	-	-
48	0.75	YE/WH	1745	Fuel Injector Control (2)	II	—
49	-	-	-	Not Occupied	-	-
50	0.75	BN/VT	1746	Fuel Injector Control (3)	II	—
51	-	-	-	Not Occupied	-	-
52	0.75	BN/VT	1744	Fuel Injector Control (1)	II	—
53	0.5	BK/GN	5301	Low Reference	-	—
54	0.5	YE/BK	5297	5-Volt Reference 1	-	—
55	0.5	BK/GY	5296	Low Reference	-	—
56–58	-	-	-	Not Occupied	-	-
59	0.5	VT/BN	6753	Low Reference	-	—
60	0.5	GY/BU	6754	Low Reference	-	—
61–65	-	-	-	Not Occupied	-	-
66	0.75	BU/GY	5425	Fuel Injector Supply Voltage (4)	II	—
67	-	-	-	Not Occupied	-	-
68	0.75	BU/YE	5422	Fuel Injector Supply Voltage (2)	II	—
69	-	-	-	Not Occupied	-	-
70	0.75	BU/GN	5423	Fuel Injector Supply Voltage (3)	-	—
71	-	-	-	Not Occupied	-	-
72	0.75	BU/WH	5421	Fuel Injector Supply Voltage (1)	-	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
73	1.5	BK	450	Signal Ground	III	—