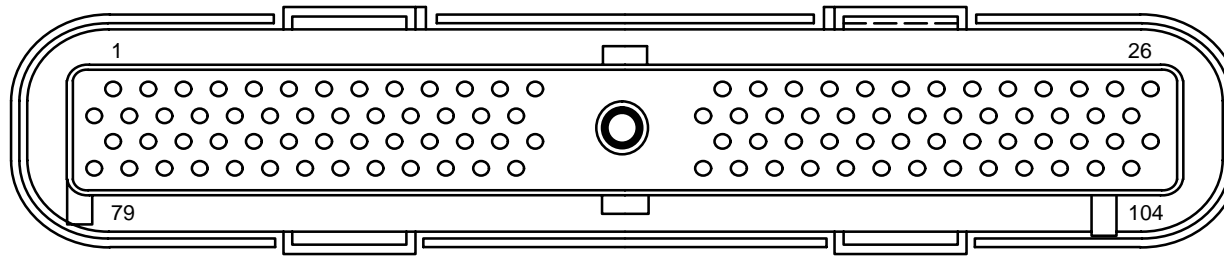


C175

12A581

Powertrain
Control Module
(PCM)
(12A650)



F104001

Pin	Circuit	Circuit function
1	315 (VT/OG)	Shift solenoid B
	1025 (OG/YE)	Coil On Plug (COP) 6 (12029), control
2	–	not used
3	1144 (YE/BK)	Digital Transmission Range (DTR) sensor, TR1
	570 (BK/WH)	Ground
4	–	not used
5	–	not used
6	237 (OG/YE)	Shift solenoid A
7	–	not used
8	1022 (DB/YE)	Intake Manifold Runner Control (IMRC) module, monitor
9	–	not used
10	356 (DB/LG)	Potentiometer (pressure or temperature), feed
11	315 (VT/OG)	Shift solenoid B
12	–	not used
13	107 (VT)	Module programming signal
14	–	not used
15	915 (PK/LB)	SCP Bus –
16	914 (TN/OG)	SCP Bus +
17	–	not used
18	–	not used
19	–	not used
20	898 (TN/RD)	Reverse lockout solenoid, control
21	349 (DB)	Crankshaft position sensor (6C315) +
22	350 (GY)	Crankshaft position sensor (6C315) –
23	1274 (DG/WH)	Powertrain Control Module (PCM) (12A650), to knock sensor
24	–	not used

Pin	Circuit	Circuit function
25	1205 (BK)	Ground
26	526 (DB/LG)	Powertrain Control Module (PCM) (12A650), to, Ignition coil (12029)
	1024 (LG/WH)	Coil On Plug (COP) 1 (12029), control
27	237 (OG/YE)	Shift solenoid A
	1021 (LG/YE)	Coil On Plug (COP) 5 (12029), control
28	228 (DB)	Low speed fan control relay, control
29	224 (TN/WH)	Powertrain Control Module (PCM) (12A650), to transmission overdrive cancel switch
30	–	not used
31	–	not used
32	1273 (YE)	Powertrain Control Module (PCM) (12A650), to knock sensor
33	–	not used
34	1144 (YE/BK)	Digital Transmission Range (DTR) sensor, TR1
35	392 (RD/LG)	Heated Oxygen Sensor (HO2S) #12 (9G444), input
36	968 (TN/LB)	Mass Air Flow (MAF) sensor (12B579), signal, return
37	923 (OG/BK)	Transmission Fluid Temperature (TFT) sensor, input
	1291 (RD/YE)	Barometric Absolute Pressure (BAP) sensor, to, Powertrain Control Module (PCM) (12A650)
38	354 (LG/RD)	Reference voltage
39	743 (GY)	Intake Air Temperature (IAT) sensor (12A697), input
40	928 (LB/OG)	Fuel pump driver module
41	198 (DG/OG)	A/C high pressure switch (19D594), signal
42	367 (BN)	Inlet Manifold Runner Control (IMRC) module, control
43	–	not used
44	–	not used

Pin	Circuit	Circuit function	Pin	Circuit	Circuit function
45	965 (LG/VT)	Supercharger bypass solenoid, control	73	559 (TN/BK)	Injector 5, control
	228 (DB)	Low speed fan control relay, control	74	557 (BN/YE)	Injector 3, control
46	639 (LG/VT)	High speed fan control relay, control	75	555 (TN)	Injector 1, control
47	360 (BN/PK)	EGR Vacuum Regulator (EVR), control	76	570 (BK/WH)	Ground
48	—	not used	77	570 (BK/WH)	Ground
49	1145 (LB/BK)	Digital Transmission Range (DTR) sensor, TR2	78	528 (PK/WH)	Powertrain Control Module (PCM) (12A650), to, Ignition coil (12029)
50	1143 (WH/BK)	Digital Transmission Range (DTR) sensor, TR4		1027 (PK/LB)	Coil On Plug (COP) 7 (12029), control
51	570 (BK/WH)	Ground	79	1029 (WH/RD)	Coil On Plug (COP) 8 (12029), control
52	527 (RD/LB)	Powertrain Control Module (PCM) (12A650), to, Ignition coil (12029)	80	922 (WH/RD)	Fuel pump driver module (9H307), to, Powertrain Control Module (PCM) (12A650)
	1028 (WH/PK)	Coil On Plug (COP) 3 (12029), control	81	925 (WH/YE)	Electronic Pressure Control (EPC) solenoid, control
53	1030 (DG/VT)	Coil On Plug (COP) 4 (12029), control	82	369 (WH/OG)	Charge air cooler pump relay, switched power, output
54	924 (BN/OG)	Torque Converter Clutch (TCC) solenoid, Torque Converter Clutch (TCC) solenoid	83	264 (WH/LB)	Idle air control valve (IAC) (9F715), control
55	729 (RD/WH)	Voltage supplied at all times (overload protected)	84	970 (DG/WH)	Output Shaft Speed (OSS) sensor (7M101)
56	191 (LG/BK)	Powertrain Control Module (PCM) (12A650), EVAP canister purge valve	85	282 (DB/OG)	Camshaft position sensor (6B288), input
57	310 (YE/RD)	Knock sensor (12A699)	86	439 (TN/LG)	A/C pressure switch, signal
58	—	not used	87	94 (RD/BK)	Heated Oxygen Sensor (HO2S) #21 (9F472), input
59	—	not used	88	967 (LB/RD)	Mass Air Flow (MAF) sensor (12B579), input
60	74 (GY/LB)	Heated Oxygen Sensor (HO2S) #11 (9F472), input	89	355 (GY/WH)	Throttle Position Sensor (TPS) (9B989), input
61	393 (VT/LG)	Heated Oxygen Sensor (HO2S) #22 (9G444), input	90	351 (BN/WH)	Reference, voltage
62	791 (RD/PK)	Fuel tank pressure transducer sensor (9C968)	91	359 (GY/RD)	signal, return
63	141 (RD/PK)	Fuel rail pressure transducer sensor, input	92	511 (LG)	Hot with BPP switch engaged
64	199 (LB/YE)	Digital Transmission Range (DTR) sensor, TR3A	93	387 (RD/WH)	Heated Oxygen Sensor (HO2S) #11 (9F472), heater
65	352 (BN/LG)	Differential Pressure Feedback EGR (DPFE) sensor, input	94	388 (YE/LB)	Heated Oxygen Sensor (HO2S) #21 (9F472), heater
66	1102 (YE/LG)	Cylinder-head temperature sensor (6G004), to, Powertrain Control Module (PCM) (12A650)	95	389 (WH/BK)	Heated Oxygen Sensor (HO2S) #12 (9G444), heater
67	101 (GY/YE)	EVAP canister vent control solenoid, control	96	390 (TN/YE)	Heated Oxygen Sensor (HO2S) #22 (9G444), heater
68	239 (WH/OG)	Vehicle Speed Sensor (VSS), +	97	361 (RD)	Voltage supplied in Start and Run (overload protected)
69	331 (PK/YE)	A/C clutch relay, control	98	562 (LB)	Injector 8, control
70	—	not used	99	560 (LG/OG)	Injector 6, control
71	361 (RD)	Voltage supplied in Start and Run (overload protected)	100	558 (BN/LB)	Injector 4, control
72	561 (TN/RD)	Injector 7, control	101	556 (WH)	Injector 2, control
			102	311 (DG/VT)	Knock sensor (12A699)
			103	570 (BK/WH)	Ground
			104	1026 (PK/WH)	Coil On Plug (COP) 2 (12029), control