



## CHRYSLER/DODGE/RAM GLOBAL POWERTRAIN ENGINE CONTROLLER (GPEC)

At the start of the 2007 model year Chrysler Corporation began using the Global Powertrain Engine Controller (GPEC) in cars equipped with the new 2.4 Liter World Engine.

The original GPEC had a 96 pin and a 58 pin connector and managed both engine and transmission systems. These vehicles were usually equipped with the 41TES transmissions, Refer to Figures 1 and 2.

As model years progressed into the present, the GPEC controller became more extensively used.

The original GPEC now was joined by the GPEC 2 Controller which uses two 96 pin connectors and is usually installed in vehicles equipped with the 62TE transmission, Refer to Figures 3 and 4.

There is also a GPEC 3 controller which is used in vehicles that are also equipped with a separate Transmission Control Module. The GPEC 3 is used for engine management only and will not be addressed in this bulletin.

So as not to be out done RAM Trucks at the start of the 2013 model year came out with what is called a Modified Powertrain Control Module (MOD-PCM). This is used in trucks that are equipped with the higher horsepower engines and the 65/66/68RFE transmissions, Refer to Figures 5 and 6.

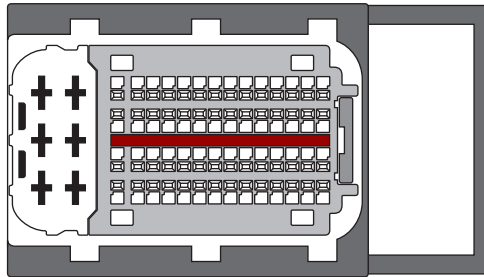
**NOTES:** When circuit or terminal information is needed, be sure to consult the appropriate wire and connector diagrams due to differences in wire and terminal locations between car and truck models as well as engine application.

In most car and car like models, the PCM is usually located in the engine bay at the left rear corner in the area between the firewall and the shock tower.

In truck applications the PCM is usually located in the engine bay against the firewall in the right rear corner. Once again when PCM location is needed, consult the appropriate component location information.

## GLOBAL POWERTRAIN ENGINE CONTROLLER (GPEC)

**2009 Dodge Avenger 2.4L  
Engine & 41TES  
Transmission**



**54 Terminal  
C1 Connector (Gray)**

PIN CAVITY	TERMINAL FUNCTION
1	FUSED MAIN RELAY OUTPUT
2	GROUND
3	FUSED MAIN RELAY OUTPUT
4	GROUND
5	TRANSMISSION CONTROL OUTPUT
6	TRANSMISSION CONTROL OUTPUT
7	O2 1-2 HEATER CONTROL
8	NOT USED
9	NOT USED
10	NOT USED
11	NOT USED
12	NOT USED
13	STEERING CONTROL SWITCH RETURN
14	NOT USED
15	IGNITION SWITCH OUTPUT (Start-Run)
16	FUSED B+
17	NOT USED
18	SECONDARY AIR PUMP CONTROL
19	FUEL PUMP CONTROL
20	O2 1-2 RETURN
21	O2 1-2 SIGNAL
22	5 VOLT SUPPLY (APP SENSOR)
23	5 VOLT SUPPLY (APP SENSOR)
24	NOT USED
25	STARTER CONTROL
26	STEERING CONTROL SIGNAL 2
27	STEERING CONTROL SWITCH SENSE 1
28	NOT USED
29	NOT USED

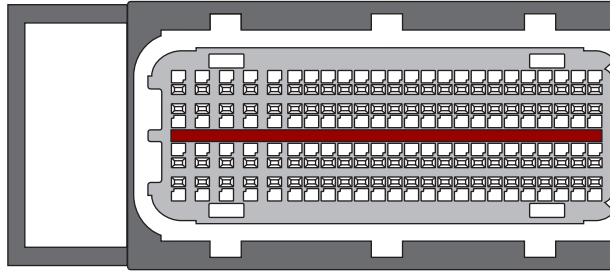
PIN CAVITY	TERMINAL FUNCTION
30	SENSOR GROUND
31	NOT USED
32	BRAKE SIGNAL 1
33	GROUND
34	APP SENSOR GROUND 2
35	EVAP PURGE RETURN
36	APP SENSOR GROUND 1
37	IGNITION SWITCH OUTPUT (Start)
38	VEHICLE SPEED SIGNAL
39	EVAP PURGE CONTROL
40	NOT USED
41	CAN BUS C +
42	NOT USED
43	NOT USED
44	NOT USED
45	NOT USED
46	NOT USED
47	ELECTRONIC SHIFT MODULE SIGNAL
48	APP SIGNAL 2
49	APP SIGNAL 1
50	TRANSMISSION RANGE SENSOR T41 SIGNAL
51	NOT USED
52	BRAKE SIGNAL 2
53	GENERATOR SENSE
54	CAN BUS C -
55	NOT USED
56	NOT USED
57	NOT USED
58	ASD/MAIN RELAY CONTROL

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Figure 1

## GLOBAL POWERTRAIN ENGINE CONTROLLER (GPEC)

**2009 Dodge Avenger 2.4L  
Engine & 41TES  
Transmission**



**96 Terminal  
C2 Connector (Gray)**

PIN CAVITY	TERMINAL FUNCTION
1	ELECTRONIC THROTTLE CONTROL MOTOR (+)
2	LINE PRESSURE VFS CONTROL
3	NOT USED
4	NOT USED
5	NOT USED
6	A/C COMPRESSOR CONTROL
7	NOT USED
8	INTAKE AIR TEMPERATURE SIGNAL
9	LINE PRESSURE VFS SIGNAL
10	LOW/REVERSE PRESSURE SWITCH SIGNAL
11	ENGINE COOLANT TEMPERATURE SIGNAL 2
12	NOT USED
13	NOT USED
14	NOT USED
15	NOT USED
16	NOT USED
17	NOT USED
18	NOT USED
19	NOT USED
20	NOT USED
21	INJECTOR 3 CONTROL
22	INJECTOR 4 CONTROL
23	INJECTOR 1 CONTROL
24	INJECTOR 2 CONTROL
25	ELECTRONIC THROTTLE CONTROL MOTOR (-)
26	NOT USED
27	MULTI-FUEL VEHICLE CONTROL
28	NOT USED
29	TRANSMISSION CONTROL (TIPM 12 VOLT SUPPLY)
30	NOT USED
31	2-4 PRESSURE SWITCH SIGNAL
32	OD PRESSURE SWITCH SIGNAL
33	O2 1-1 SIGNAL
34	NOT USED
35	NOT USED
36	O2 1-1 RETURN
37	ENGINE OIL TEMPERATURE SIGNAL
38	CAMSHAFT POSITION SENSOR 1-2 SIGNAL
39	NOT USED
40	NOT USED
41	5 VOLT SUPPLY (THROTTLE BODY)
42	5 VOLT SUPPLY (MULTIPLE SENSORS)
43	5 VOLT SUPPLY (VFS SIGNAL)
44	AUTOSTICK UPSHIFT SIGNAL
45	NOT USED
46	AUTOSTICK DOWNSHIFT SIGNAL
47	NOT USED
48	NOT USED

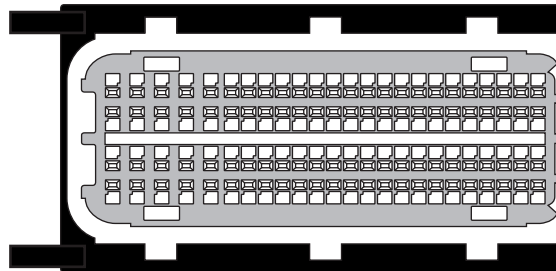
PIN CAVITY	TERMINAL FUNCTION
49	NOT USED
50	2-4 SOLENOID CONTROL
51	GENERATOR FIELD CONTROL
52	LOW/REVERSE SOLENOID CONTROL
53	UNDERDRIVE SOLENOID CONTROL
54	TRANSMISSION RANGE SENSOR T1 SIGNAL
55	IGNITION SWITCH OUTPUT (Unlock-Run-Start)
56	TRANSMISSION RANGE SENSOR T42 SIGNAL
57	CAMSHAFT POSITION SENSOR 1-1 SIGNAL
58	SENSOR GROUND (MULTIPLE SENSORS)
59	NOT USED
60	SENSOR GROUND (MAF)
61	MASS AIRFLOW SENSOR SIGNAL
62	THROTTLE POSITION SENSOR GROUND
63	THROTTLE POSITION SENSOR SIGNAL 2
64	THROTTLE POSITION SENSOR SIGNAL 1
65	KNOCK SENSOR RETURN
66	INPUT SPEED SENSOR SIGNAL
67	NOT USED
68	NOT USED
69	NOT USED
70	CAMSHAFT POSITION SOLENOID 1-2 CONTROL
71	NOT USED
72	CAMSHAFT POSITION SOLENOID 1-2 CONTROL
73	COIL 4 CONTROL
74	COIL 3 CONTROL
75	COIL 2 CONTROL
76	COIL 1 CONTROL
77	OVERDRIVE SOLENOID CONTROL
78	TRANSMISSION RANGE SENSOR T41 SIGNAL
79	CRANKSHAFT POSITION SENSOR SIGNAL
80	TRANSMISSION FLUID TEMPERATURE SIGNAL
81	TRANSMISSION RANGE SENSOR T3 SIGNAL
82	SENSOR GROUND (Multiple Sensors)
83	ENGINE COOLANT TEMPERATURE 1 SIGNAL
84	MANIFOLD FLOW VALVE SIGNAL
85	MANIFOLD ABSOLUTE PRESSURE SENSOR SIGNAL
86	ENGINE OIL PRESSURE SWITCH SIGNAL
87	VFS PRESSURE SENSOR GROUND
88	KNOCK SENSOR SIGNAL
89	OUTPUT SPEED SENSOR SIGNAL
90	SENSOR GROUND (Multiple Transmission Sensors)
91	NOT USED
92	NOT USED
93	NOT USED
94	NOT USED
95	NOT USED
96	NOT USED

Figure 2

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## GLOBAL POWERTRAIN ENGINE CONTROLLER 2 (GPEC 2)

**2014 Dodge Avenger 2.4L  
Engine & 62TE  
Transmission**



**96 Terminal  
C1 Connector (Gray)**

PIN CAVITY	TERMINAL FUNCTION
1	LOW/REVERSE SOLENOID CONTROL
2	DIRECT CLUTCH SOLENOID CONTROL
3	LOW CLUTCH SOLENOID CONTROL
4	UNDERDRIVE SOLENOID CONTROL
5	OVERDRIVE SOLENOID CONTROL
6	VACUUM PUMP RELAY CONTROL
7	TRANSMISSION CONTROL (TIPM 12 Volt Supply To PCM)
8	TRANSFER SHAFT SPEED SENSOR SIGNAL
9	TRANSFER, INPUT, OUTPUT SPEED SENSOR GROUND
10	INPUT SPEED SENSOR SIGNAL
11	NOT USED
12	NOT USED
13	NOT USED
14	2-4 PRESSURE SWITCH SIGNAL
15	NOT USED
16	AUTOSTICK UPSHIFT SIGNAL
17	BRAKE SIGNAL 2
18	SPEED CONTROL SWITCH SIGNAL 2
19	SPEED CONTROL SWITCH SIGNAL 1
20	LINE PRESSURE SIGNAL
21	NOT USED
22	THROTTLE BODY/OIL ENGINE TEMP SENSOR GROUND
23	IGNITION RUN/START CONTROL OUTPUT
24	FUEL TANK PRESSURE SIGNAL
25	2-4 SOLENOID CONTROL
26	TRANSMISSION CONTROL OUTPUT (Switched Battery)
27	TRANSMISSION CONTROL OUTPUT (12 Volt Pwr to TPIM)
28	TRANSMISSION CONTROL OUTPUT (12 Volt Pwr to TPIM)
29	LINE PRESSURE VFS CONTROL
30	NOT USED
31	NOT USED
32	NOT USED
33	CAN C (-)
34	OUTPUT SPEED SENSOR SIGNAL
35	NOT USED
36	NOT USED
37	DIRECT CLUTCH PRESSURE SWITCH SIGNAL
38	LOW CLUTCH PRESSURE SWITCH SIGNAL
39	TRANSMISSION RANGE SENSOR T1 SIGNAL
40	AUTOSTICK DOWNSHIFT SIGNAL
41	BRAKE SIGNAL 1
42	NOT USED
43	SPEED CONTROL SWITCH GROUND
44	TRANSMISSION FLUID TEMPERATURE SIGNAL
45	NOT USED
46	NOT USED
47	IGNITION UNLOCK/RUN/START OUTPUT
48	5 VOLT SUPPLY (Fuel Tank Pressure Sensor)

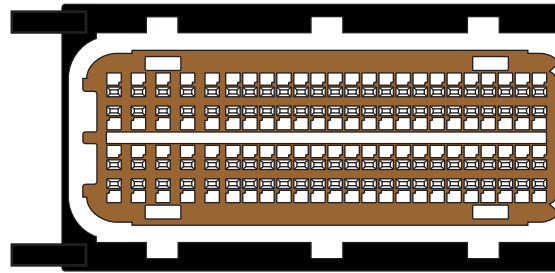
PIN CAVITY	TERMINAL FUNCTION
49	PCM GROUND
50	PCM GROUND
51	PCM GROUND
52	PCM GROUND
53	PCM GROUND
54	FUEL TANK PRESSURE SENSOR GROUND
55	NOT USED
56	NOT USED
57	CAN C (+)
58	NOT USED
59	NOT USED
60	LOW/REVERSE PRESSURE SWITCH SIGNAL
61	OVERDRIVE PRESSURE SWITCH SIGNAL
62	TRANSMISSION RANGE SENSOR T3 SIGNAL
63	NOT USED
64	NOT USED
65	EVAP PURGE SOLENOID SIGNAL
66	NOT USED
67	APP SENSOR GROUND 2
68	APP SENSOR GROUND 1
69	5 VOLT SUPPLY (Evap System Monitor Switch)
70	EVAP SYSTEM MONITOR SWITCH SIGNAL
71	NOT USED
72	PCM GROUND
73	EMCC SOLENOID CONTROL
74	ASD CONTROL OUTPUT (TIPM 12 Volt Pwr Supply to PCM)
75	ASD CONTROL OUTPUT (TIPM 12 Volt Pwr Supply to PCM)
76	ASD CONTROL OUTPUT (TIPM 12 Volt Pwr Supply to PCM)
77	NOT USED
78	NOT USED
79	A/C CLUTCH CONTROL
80	ASD RELAY CONTROL
81	STARTER RELAY CONTROL
82	NOT USED
83	NOT USED
84	FUEL PUMP CONTROL
85	NOT USED
86	NOT USED
87	TRANSMISSION RANGE SENSOR T41 SIGNAL
88	TRANSMISSION RANGE SENSOR T42 SIGNAL
89	NOT USED
90	NOT USED
91	APP SIGNAL 2
92	APP SIGNAL 1
93	APP 2 FIVE VOLT SUPPLY
94	EVAP PURGE CONTROL
95	NOT USED
96	FUSED B+

Figure 3

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## GLOBAL POWERTRAIN ENGINE CONTROLLER 2 (GPEC 2)

**2014 Dodge Avenger 2.4L  
Engine & 62TE  
Transmission**



**96 Terminal  
C2 Connector (Brown)**

PIN CAVITY	TERMINAL FUNCTION
1	COIL CONTROL 1
2	GENERATOR FIELD CONTROL
3	ELECTRONIC THROTTLE CONTROL MOTOR (+)
4	ELECTRONIC THROTTLE CONTROL MOTOR (-)
5	NOT USED
6	NOT USED
7	SECONDARY AIR PUMP RELAY CONTROL
8	INJECTOR CONTROL 1
9	INJECTOR CONTROL 2
10	INJECTOR CONTROL 3
11	INJECTOR CONTROL 4
12	ENGINE COOLANT TEMPERATURE SENSOR SIGNAL
13	KNOCK SENSOR 2 SIGNAL
14	KNOCK SENSOR 1 SIGNAL
15	NOT USED
16	ENGINE OIL TEMPERATURE SENSOR SIGNAL
17	INTAKE AIR TEMPERATURE SENSOR SIGNAL
18	O2 SENSOR RETURN (Downstream)
19	O2 SENSOR RETURN (Upstream)
20	NOT USED
21	NOT USED
22	VVT EXHAUST CONTROL
23	VVT INTAKE CONTROL
24	O2 1-1 HEATER CONTROL
25	COIL CONTROL 2
26	NOT USED
27	NOT USED
28	NOT USED
29	NOT USED
30	NOT USED
31	NOT USED
32	NOT USED
33	NOT USED
34	NOT USED
35	NOT USED
36	NOT USED
37	KNOCK SENSOR 2 RETURN
38	KNOCK SENSOR 1 RETURN
39	NOT USED
40	GENERATOR SENSE
41	O2 2-1 SIGNAL
42	O2 2-2 SIGNAL
43	O2 1-2 SIGNAL
44	O2 1-1 SIGNAL
45	MANIFOLD ABSOLUTE PRESSURE SENSOR SIGNAL
46	NOT USED
47	NOT USED
48	O2 1-2 HEATER CONTROL SUPPLY

PIN CAVITY	TERMINAL FUNCTION
49	COIL CONTROL 3
50	NOT USED
51	NOT USED
52	NOT USED
53	NOT USED
54	NOT USED
55	NOT USED
56	NOT USED
57	NOT USED
58	NOT USED
59	NOT USED
60	NOT USED
61	CAMSHAFT POSITION SENSOR SIGNAL 4
62	CAMSHAFT POSITION SENSOR SIGNAL 2
63	CAMSHAFT POSITION SENSOR SIGNAL 3
64	NOT USED
65	THROTTLE POSITION SENSOR RETURN
66	CRANKSHAFT POSITION SENSOR GROUND
67	SENSOR GROUND (Multiple Sensors)
68	NOT USED
69	NOT USED
70	NOT USED
71	NOT USED
72	O2 2-1 HEATER CONTROL
73	COIL CONTROL 4
74	COIL CONTROL 5
75	COIL CONTROL 6
76	NOT USED
77	NOT USED
78	NOT USED
79	INJECTOR CONTROL 5
80	INJECTOR CONTROL 6
81	NOT USED
82	NOT USED
83	NOT USED
84	NOT USED
85	CAMSHAFT POSITION SENSOR SIGNAL
86	CRANKSHAFT POSITION SENSOR SIGNAL
87	5 VOLT SUPPLY (Multiple Sensors)
88	CRANKSHAFT POSITION SENSOR GROUND
89	THROTTLE POSITION SENSOR 1 SIGNAL
90	THROTTLE POSITION SENSOR 2 SIGNAL
91	NOT USED
92	NOT USED
93	OIL PRESSURE SOLENOID CONTROL
94	VVT INTAKE CONTROL 2
95	VVT EXHAUST CONTROL 2
96	O2 2-2 HEATER CONTROL

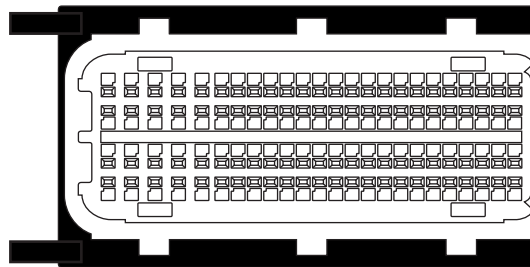
Figure 4

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## MOD-PCM

**2014 RAM 1500 5.7L  
Engine & 65RFE  
Transmission**



**96 Terminal  
C1 Connector (White)**

PIN CAVITY	TERMINAL FUNCTION
1	LOW/REVERSE SOLENOID CONTROL
2	MULTI-SELECT SOLENOID CONTROL
3	UNDERDRIVE SOLENOID CONTROL
4	4C SOLENOID CONTROL
5	NOT USED
6	2C SOLENOID CONTROL
7	TRANSMISSION CONTROL (RELAY 12 Volt Supply To PCM)
8	NOT USED
9	INPUT, OUTPUT SPEED SENSOR GROUND
10	INPUT SPEED SENSOR SIGNAL
11	OUTPUT SPEED SENSOR SIGNAL
12	4C PRESSURE SWITCH SIGNAL
13	NOT USED
14	2C PRESSURE SWITCH SIGNAL
15	TRANSMISSION RANGE SENSOR T4 SIGNAL
16	NOT USED
17	TRANSMISSION RANGE SENSOR T4I SIGNAL
18	TRANSMISSION RANGE SENSOR T42 SIGNAL
19	TRANSMISSION FLUID TEMPERATURE SIGNAL
20	LINE PRESSURE SIGNAL
21	NOT USED
22	FUEL PRESSURE SIGNAL
23	IGNITION RUN/START CONTROL OUTPUT
24	NOT USED
25	TRANSMISSION CONTROL OUTPUT (Switched Battery)
26	TRANSMISSION CONTROL OUTPUT (12 Volt Pwr to PDC)
27	TRANSMISSION CONTROL OUTPUT (12 Volt Pwr to PDC)
28	NOT USED
29	LINE PRESSURE VFS CONTROL
30	NOT USED
31	NOT USED
32	NOT USED
33	CAN C (-)
34	NOT USED
35	LOW/REVERSE CLUTCH PRESSURE SWITCH SIGNAL
36	OVERDRIVE CLUTCH PRESSURE SWITCH SIGNAL
37	UNDERDRIVE CLUTCH PRESSURE SWITCH SIGNAL
38	TRANSMISSION RANGE SENSOR T1 SIGNAL
39	NOT USED
40	TRANSMISSION RANGE SENSOR T3 SIGNAL
41	NOT USED
42	EVAP SYSTEM MONITOR SWITCH GROUND
43	NOT USED
44	A/C PRESSURE SIGNAL
45	NOT USED
46	NOT USED
47	IGNITION OFF/RUN/START CONTROL OUTPUT
48	5 VOLT SUPPLY (Fuel Tank Pressure Sensor)

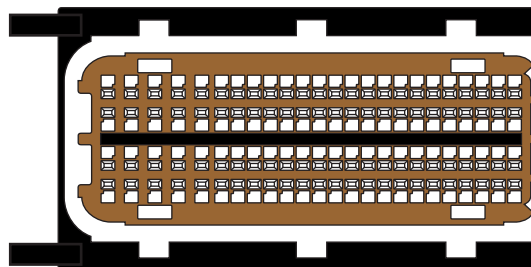
PIN CAVITY	TERMINAL FUNCTION
49	PCM GROUND
50	PCM GROUND
51	PCM GROUND
52	PCM GROUND
53	PCM GROUND
54	FUEL TANK PRESSURE SENSOR GROUND
55	NOT USED
56	NOT USED
57	CAN C (+)
58	NOT USED
59	NOT USED
60	NOT USED
61	FUEL PUMP CONTROL MODULE PWM FEEDBACK
62	NOT USED
63	NOT USED
64	NOT USED
65	NOT USED
66	NOT USED
67	APP SENSOR GROUND 2
68	APP SENSOR GROUND 1
69	5 VOLT SUPPLY
70	EVAP PURGE SOLENOID SENSE
71	NOT USED
72	PCM GROUND
73	NOT USED
74	ASD CONTROL OUTPUT (PDC 12 Volt Pwr Supply to PCM)
75	ASD CONTROL OUTPUT (PDC 12 Volt Pwr Supply to PCM)
76	ASD CONTROL OUTPUT (PDC 12 Volt Pwr Supply to PCM)
77	NOT USED
78	RADIATOR FAN RELAY CONTROL
79	A/C CLUTCH CONTROL
80	ASD RELAY CONTROL
81	STARTER RELAY CONTROL
82	LOW SPEED RADIATOR FAN CONTROL
83	FUEL PUMP CONTROL PWM CONTROL
84	FUEL PUMP CONTROL
85	NOT USED
86	NOT USED
87	NOT USED
88	FUEL TANK PRESSURE SIGNAL
89	NOT USED
90	NOT USED
91	APP SIGNAL 2
92	APP SIGNAL 1
93	APP SENSOR FIVE VOLT SUPPLY
94	EVAP PURGE CONTROL
95	NOT USED
96	FUSED B+

Figure 5

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## MOD-PCM

**2014 RAM 1500 5.7L  
Engine & 65RFE  
Transmission**



**96 Terminal  
C2 Connector (Brown)**

PIN CAVITY	TERMINAL FUNCTION
1	MULTI-DISPLACEMENT SYSTEM SOLENOID CONTROL 7
2	NOT USED
3	NOT USED
4	ENGINE OIL PRESSURE SIGNAL
5	NOT USED
6	MULTI-DISPLACEMENT SYSTEM SOLENOID CONTROL 4
7	NOT USED
8	INJECTOR CONTROL 1
9	INJECTOR CONTROL 2
10	INJECTOR CONTROL 3
11	INJECTOR CONTROL 4
12	ENGINE COOLANT TEMPERATURE SENSOR SIGNAL
13	KNOCK SENSOR 2 SIGNAL
14	KNOCK SENSOR 1 SIGNAL
15	NOT USED
16	NOT USED
17	NOT USED
18	NOT USED
19	O2 1-2 SENSOR SIGNAL
20	O2 RETURN (Downstream)
21	O2 2-2 SIGNAL
22	VARIABLE CAMSHAFT TIMING CONTROL
23	NOT USED
24	O2 1-1 HEATER CONTROL
25	MULTI-DISPLACEMENT SYSTEM SOLENOID CONTROL 6
26	NOT USED
27	NOT USED
28	NOT USED
29	NOT USED
30	NOT USED
31	MULTI-DISPLACEMENT SYSTEM SOLENOID CONTROL 1
32	GENERATOR FIELD CONTROL
33	ELECTRONIC THROTTLE CONTROL MOTOR (+)
34	ELECTRONIC THROTTLE CONTROL MOTOR (-)
35	GENERATOR SENSE
36	NOT USED
37	KNOCK SENSOR 2 RETURN
38	KNOCK SENSOR 1 RETURN
39	O2 1-1 SIGNAL
40	O2 RETURN (Upstream)
41	O2 2-1 SIGNAL
42	NOT USED
43	ENGINE OIL TEMPERATURE SIGNAL
44	INTAKE AIR TEMPERATURE SENSOR SIGNAL
45	MANIFOLD ABSOLUTE PRESSURE SENSOR SIGNAL
46	NOT USED
47	NOT USED
48	O2 1-2 HEATER CONTROL SUPPLY

PIN CAVITY	TERMINAL FUNCTION
49	COIL CONTROL 3
50	COIL CONTROL 2
51	COIL CONTROL 1
52	NOT USED
53	SHORT RUNNER VALVE ACTUATOR CONTROL SIGNAL
54	NOT USED
55	NOT USED
56	NOT USED
57	NOT USED
58	NOT USED
59	NOT USED
60	SHORT RUNNER VALVE ACTUATOR SENSE OUTPUT
61	NOT USED
62	NOT USED
63	NOT USED
64	NOT USED
65	THROTTLE POSITION SENSOR RETURN
66	CAMHAFT POSITION SENSOR GROUND
67	APP 2 SENSOR GROUND
68	APP 1 SENSOR GROUND
69	NOT USED
70	NOT USED
71	NOT USED
72	O2 2-1 HEATER CONTROL
73	COIL CONTROL 4
74	COIL CONTROL 5
75	COIL CONTROL 6
76	COIL CONTROL 7
77	COIL CONTROL 8
78	NOT USED
79	INJECTOR CONTROL 5
80	INJECTOR CONTROL 6
81	INJECTOR CONTROL 7
82	INJECTOR CONTROL 8
83	NOT USED
84	NOT USED
85	CAMSHAFT POSITION SENSOR SIGNAL
86	CRANKSHAFT POSITION SENSOR SIGNAL
87	CAMSHAFT SENSOR 5 VOLT SUPPLY
88	CRANKSHAFT POSITION SENSOR GROUND
89	THROTTLE POSITION SENSOR 1 SIGNAL
90	THROTTLE POSITION SENSOR 2 SIGNAL
91	NOT USED
92	NOT USED
93	NOT USED
94	NOT USED
95	NOT USED
96	O2 2-2 HEATER CONTROL

Figure 6

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