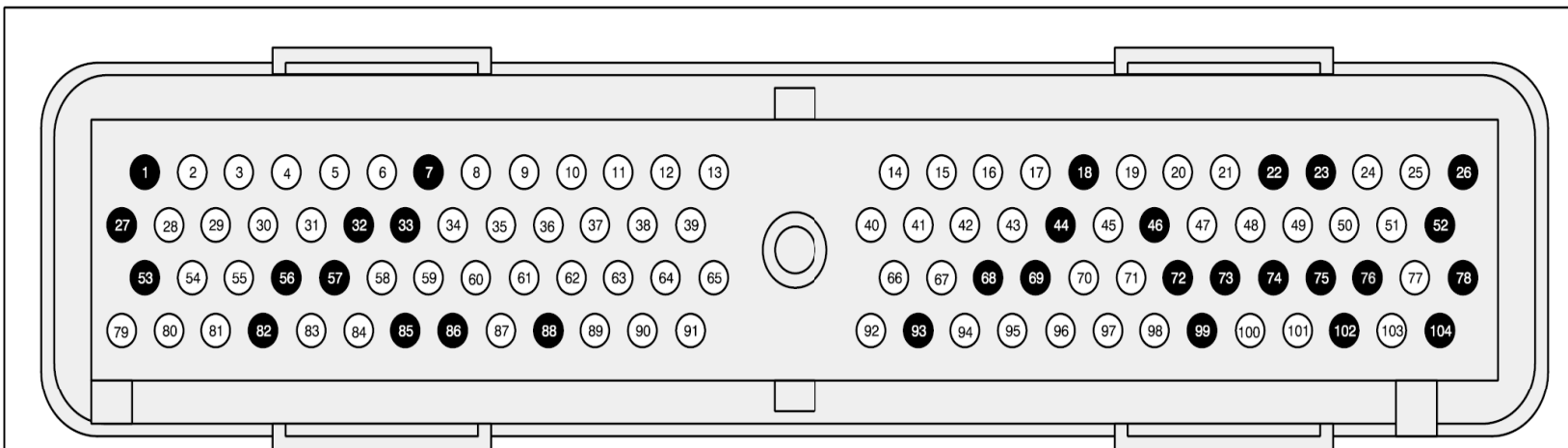


27-13 ENGINE CONTROLS (7.3L DIESEL)

1999 F-250 HD/350/SUPER DUTY



REVISED

C1027

POWERTRAIN CONTROL MODULE (PCM)

PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
1	-	NOT USED	21	795 (DG)	Camshaft Position (CMP) Sensor
2	658 (PK/LG)	Check Engine Light	22	-	NOT USED
3	3996 (R/Y)	Contactora Lo Current Sense Return	23	-	NOT USED
4	323 (LB/Y)	Neutral Gear Switch	24	357 (Y/W)	Throttle Position Sensor
5	162 (LG/R)	Brake Warning Input	25	567 (LB/Y)	Speedometer/Tachometer Diagnostic Ground
6	237 (O/Y)	Shift Solenoid #1	26	-	NOT USED
7	-	NOT USED	27	-	NOT USED
8	1277 (W/LG)	Glow Plug Monitor Left Bank (Low Side)	28	643(R)	Water in Fuel Indicator
9	1278 (W/P)	NOT USED	29	*224 (T/W)	Transmission Overdrive Cancel Switch
10	1285 (R/LG)	Idle Validation Switch		**306 (T/LB)	Clutch Switch
11	315 (P/O)	Shift Solenoid #2	30	553(P/LB)	Exhaust Back Pressure (EBP) Sensor
12	911 (W/LG)	Transmission Control Indicator Lamp (TCIL)	31	307 (BK/Y)	Brake Pressure Switch
13	107 (P)	Generic Scan Tool Input	32	-	NOT USED
14	784 (LB/BK)	4x4 Low Range Switch	33	-	NOT USED
15	915 (PK/LB)	Bus-	34	1279 (W)	NOT USED
16	914 (T/O)	Bus+	35	1183(W/Y)	Generator Power
17	1144 (W/Y)	Digital Transmission Range (DTR) Sensor (TR1)	36	1280 (GY/R)	Fuel Heater/Water in Fuel Sensor
18	-	NOT USED	37	923(O/BK)	Transmission Fluid Temperature (TFT) Sensor
19	648 (W/PK)	Auxiliary Tachometer Feed			
20	924 (BR/O)	Coast Clutch Solenoid			

* AUTOMATIC TRANSMISSION
 ** MANUAL TRANSMISSION

ENGINE CONTROLS (7.3L DIESEL) 27-14

1999 F-250 HD/350/SUPER DUTY

PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
38	354 (LG/R)	Engine Oil Temperature (EOT) Sensor	72	–	NOT USED	102	–	NOT USED
39	743(GY)	Intake Air Temperature (IAT) Sensor	73	–	NOT USED	103	570 (BK/W)	Ground
40	787 (PK/BK)	Fuel Pump Power	74	–	NOT USED	104	–	NOT USED
41	439 (T/LG)	A/C Head Pressure Switch	75	–	NOT USED			
42	318 (GY/R)	Exhaust Pressure Regulator	76	–	NOT USED			
43	71 (O/LG)	Data Output Link	77	570 (BK/W)	Ground			
44	–	NOT USED	78	–	NOT USED			
45	203(O/LB)	Speed Control Indicator	79	358 (LG/BK)	(MAP) Sensor			
46	–	NOT USED	80	814 (W/BK)	(IDM) Enable Output			
47	1275 (W/R)	Wastegate Control Solenoid	81	925 (W/Y)	Electronic Pressure Control (EPC) Solenoid			
48	818 (GY/W)	Diesel Electronic Driver Unit	82	–	NOT USED			
49	1145 (DB/W)	Digital Transmission Range (DTR) Sensor (TR2)	83	552 (Y/R)	Injection Pressure Regulator (IPR) Sensor			
50	1143(DG/Y)	Digital Transmission Range (DTR) Sensor (TR4)	84	970 (DG/W)	Turbine Shaft Speed (TSS) Sensor			
51	570 (BK/W)	Ground	85	–	NOT USED			
52	–	NOT USED	86	–	NOT USED			
53	–	NOT USED	87	812 (DB/LG)	Injection Control Pressure (ICP) Sensor			
54	480 (P/Y)	Torque Converter Clutch (TCC) Solenoid	88	–	NOT USED			
55	729 (R/W)	Power (Hot at All Times)	89	355 (GY/W)	Accelerator Pedal Position (APP) Sensor			
56	–	NOT USED	90	351 (BR/W)	Reference Output Voltage			
57	–	NOT USED	91	359 (GY/R)	Sensor Signal Return			
58	679 (GY/BK)	Vehicle Speed Sensor (+)	92	810 (R/LG)	Brake Pedal Position (BPP) Switch			
59	136 (DB/Y)	Output Shaft Speed (OSS) Sensor	93	–	NOT USED			
60	1185 (Y)	Generator Power	94	926 (LB/O)	Fuel Pump Relay Enable Output			
61	151 (LB/BK)	Speed Control ON/OFF Switch	95	821 (BR/O)	Fuel Delivery Command Signal Output			
62	1291 (R/Y)	Air Change Temperature Sensor	96	817 (Y/LB)	Cylinder Identification Signal Output			
63	*356 (DB/LG)	Baro Sensor	97	361 (R)	Power Input			
64	199 (LB/Y)	Digital Transmission Range (DTR) Sensor (TR3A)	98	462 (P)	Powertrain Control Module to Relay			
65	796 (LB)	Camshaft Position (CMP) Sensor Ground	99	–	NOT USED			
66	322 (LB/Y)	Power Take Off Input	100	29 (Y/W)	Fuel Pump Sender			
67	904 (LG/R)	Charge Indicator Input	101	1086 (P/O)	Glow plug Controller Output			
68	–	NOT USED						
69	–	NOT USED						
70	464 (BK/PK)	Wait to Start Output						
71	361 (R)	Power Input						

* VEHICLES BUILT
BEFORE 12/6/98