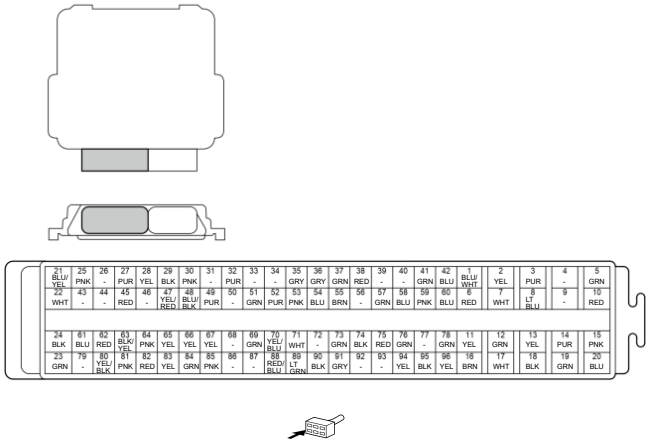


PCM Connector for Inputs and Outputs
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PCM Connector No. 1 (96P)
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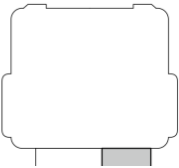
PCM Connector No. 1 (96P) (female terminals)



Terminal number	Terminal name	Description
1	VTCEX (VTC OIL CONTROL SOLENOID VALVE B)	Drives VTC oil control solenoid valve B
2	HPUMP H (HIGH PRESSURE FUEL PUMP +)	Drives fuel control solenoid (build into high pressure fuel pump)
3	MTR1 (THROTTLE ACTUATOR)	Drives throttle actuator
4	Not used	
5	WGMTR1 (TURBOCHARGER WASTEGATE CONTROL ACTUATOR + SIDE)	Drives turbocharger wastegate control actuator
6	VTC (VTC OIL CONTROL SOLENOID VALVE A)	Drives VTC oil control solenoid valve A
7	HPUMP L (HIGH PRESSURE FUEL PUMP -)	Drives fuel control solenoid (build into high pressure fuel pump)
8	MTR2 (THROTTLE ACTUATOR)	Drives throttle actuator
9	Not used	
10	WGMTR2 (TURBOCHARGER WASTEGATE CONTROL ACTUATOR - SIDE)	Drives turbocharger wastegate control actuator
11	SO2HT (SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO2S) (SENSOR 2) HEATER CONTROL)	Drives secondary HO2S (Sensor 2) heater
12	INJ H4 (No. 4 INJECTOR +)	Drives No. 4 injector
13	INJ L4 (No. 4 INJECTOR -)	Drives No. 4 injector
14	INJ L3 (No. 3 INJECTOR -)	Drives No. 3 injector
15	INJ H3 (No. 3 INJECTOR +)	Drives No. 3 injector
16	AFHT (AIR FUEL RATIO (A/F) SENSOR (SENSOR 1) HEATER CONTROL)	Drives A/F sensor (Sensor 1) heater
17	INJ H1 (No. 1 INJECTOR +)	Drives No. 1 injector
18	INJ L1 (No. 1 INJECTOR -)	Drives No. 1 injector
19	INJ L2 (No. 2 INJECTOR -)	Drives No. 2 injector
20	INJ H2 (No. 2 INJECTOR +)	Drives No. 2 injector
21	ABV (TURBOCHARGER BYPASS CONTROL SOLENOID VALVE)	Drives turbocharger bypass control solenoid valve
22	SO2 (SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO2S) (SENSOR 2))	Detects secondary HO2S (Sensor 2) signal
23	SG THL (SENSOR GROUND)	Sensor ground
24	SO2SG (SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO2S) (SENSOR 2) GROUND)	Ground for secondary HO2S (Sensor 2)
25	VTSEX (ROCKER ARM OIL CONTROL SOLENOID)	Drives rocker arm oil control solenoid
26	Not used	
27	PB (MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR)	Detects MAP sensor signal
28	NSS2 (NEUTRAL POSITION SENSOR SIGNAL)	Detects neutral position sensor signal
29	SG5 (SENSOR GROUND)	Sensor ground
30	NSS1 (NEUTRAL POSITION SENSOR SIGNAL)	Detects neutral position sensor signal
31	Not used	
32	PF (FUEL RAIL PRESSURE SENSOR)	Detects fuel rail pressure sensor signal
33	Not used	
34	Not used	
35	SG AFM (SENSOR GROUND)	Sensor ground

Terminal number	Terminal name	Description
36	LAF VG (AIR FUEL RATIO (A/F) SENSOR (SENSOR 1) REFERENCE VOLTAGE)	Detects A/F sensor (Sensor 1) signal
37	LAF CP (AIR FUEL RATIO (A/F) SENSOR (SENSOR 1) TRIM RESISTER)	Detects A/F sensor (Sensor 1) signal
38	NC (OUTPUT SHAFT (COUNTERSHAFT) SPEED SENSOR)	Detects output shaft (countershaft) speed sensor signal
39	Not used	
40	Not used	
41	IGN03 (No. 3 IGNITION COIL PULSE)	Drives No. 3 ignition coil
42	IGN04 (No. 4 IGNITION COIL PULSE)	Drives No. 4 ignition coil
43	Not used	
44	Not used	
45	TA (INTAKE AIR TEMPERATURE (IAT) SENSOR 2)	Detects IAT sensor 2 signal
46	Not used	
47	OPSEN (ROCKER ARM OIL PRESSURE SENSOR)	Detects rocker arm oil pressure sensor signal
48	VTMEX (ROCKER ARM OIL PRESSURE SWITCH)	Detects rocker arm oil pressure switch signal
49	TW (ENGINE COOLANT TEMPERATURE (ECT) SENSOR 1)	Detects ECT sensor 1 signal
50	Not used	
51	P3 (TURBOCHARGER BOOST SENSOR)	Detects turbocharger boost sensor signal
52	TA2 (INTAKE AIR TEMPERATURE (IAT) SENSOR 1)	Detects IAT sensor 1 signal
53	AFM (MASS AIR FLOW (MAF) SENSOR + SIDE)	Detects MAF sensor signal
54	LAF VN (AIR FUEL RATIO (A/F) SENSOR (SENSOR 1) NEGATIVE CURRENT CONTROL)	Detects A/F sensor (Sensor 1) signal
55	LAF CA (AIR FUEL RATIO (A/F) SENSOR (SENSOR 1) POSITIVE CURRENT CONTROL)	Detects A/F sensor (Sensor 1) signal
56	Not used	
57	CAMEX (CAMSHAFT POSITION (CMP) SENSOR B)	Detects CMP sensor B signal
58	SG2 (SENSOR GROUND)	Sensor ground
59	IGN01 (No. 1 IGNITION COIL PULSE)	Drives No. 1 ignition coil
60	IGN02 (No. 2 IGNITION COIL PULSE)	Drives No. 2 ignition coil
61	VCC THL (SENSOR VOLTAGE)	Provides sensor reference voltage
62	VCC1 NSS (SENSOR VOLTAGE)	Provides sensor reference voltage
63	VCC1 AFM (SENSOR VOLTAGE)	Provides sensor reference voltage
64	VCC2 2 (SENSOR VOLTAGE)	Provides sensor reference voltage
65	VCC2 4 (SENSOR VOLTAGE)	Provides sensor reference voltage
66	VCC1 1 (SENSOR VOLTAGE)	Provides sensor reference voltage
67	VCC2 1 (SENSOR VOLTAGE)	Provides sensor reference voltage
68	Not used	
69	NM (INPUT SHAFT (MAINSHAFT) SPEED SENSOR)	Detects input shaft (mainshaft) speed sensor signal
70	WCL (TURBOCHARGER WASTEGATE CONTROL ACTUATOR POSITION SENSOR)	Detects turbocharger wastegate control actuator position sensor signal
71	KS POS (KNOCK SENSOR)	Detects knock sensor signal
72	Not used	
73	CAM (CAMSHAFT POSITION (CMP) SENSOR A)	Detects CMP sensor A signal
74	SG1 (SENSOR GROUND)	Sensor ground
75	CRK (CRANKSHAFT POSITION (CKP) SENSOR)	Detects CKP sensor signal
76	SG CRK (SENSOR GROUND)	Sensor ground
77	Not used	
78	SG9 (SENSOR GROUND)	Sensor ground
79	Not used	
80	VCC1 CRK (SENSOR VOLTAGE)	Provides sensor reference voltage
81	VCC1 5 (SENSOR VOLTAGE)	Provides sensor reference voltage
82	VCC2 3 (SENSOR VOLTAGE)	Provides sensor reference voltage
83	VCC2 5 (SENSOR VOLTAGE)	Provides sensor reference voltage
84	SG NSS (SENSOR GROUND)	Sensor ground
85	TW2 (ENGINE COOLANT TEMPERATURE (ECT) SENSOR 2)	Detects ECT sensor 2 signal
86	Not used	
87	Not used	
88	THL2 (THROTTLE POSITION (TP) SENSOR B)	Detects TP sensor B signal
89	THL1 (THROTTLE POSITION (TP) SENSOR A)	Detects TP sensor A signal
90	KS NEG (KNOCK SENSOR GROUND)	Sensor ground for knock sensor
91	SG3 (SENSOR GROUND)	Sensor ground
92	Not used	
93	Not used	
94	LIN (LOCAL INTERCONNECT NETWORK)	Sends and receives communication signal
95	SG7 (SENSOR GROUND)	Sensor ground
96	PCS (EVAPORATIVE EMISSION (EVAP) CANISTER PURGE VALVE)	Drives EVAP canister purge valve

PCM Connector No. 2 (58P) (female terminals)





11	12	13	14	15	16	17	18	19	20	21	22	23	1	2
BLU	BRN	BLU	WHT	LT GRN	BRN	BRN	WHT	WHT	WHT	YEL	LT GRN		BLK	WHT
23	24	25	26	27	28	29	30	31	32	33	34			
GRY	GRN	GRN	RED				GRY	BLK			BRN		3	4
													BLK	WHT
35	36	37	38	39	40	41	42	43	44	45	46	9		
PNK	GRY	BLU	BRN	WHT	WHT	BLU	RED	GRY	PUR	GRY	WHT			
47	48	49	50	51	52	53	54	55	56	57	58	10	5	6
PUR	RED	PNK	YEL	BLU	GRN	GRY	RED	GRY	YEL	WHT	WHT		BLK	WHT



Terminal number	Terminal name	Description
1	GND (POWER GROUND)	Ground for PCM
2	FI MAIN RLY OUT (POWER SOURCE)	Power source for PCM
3	GND (POWER GROUND)	Ground for PCM
4	FI MAIN RLY OUT (POWER SOURCE)	Power source for PCM
5	GND (POWER GROUND)	Ground for PCM
6	FI MAIN RLY OUT (POWER SOURCE)	Power source for PCM
7	BACK LT (BACK-UP LIGHT SWITCH SIGNAL)	Detects back-up light switch signal
8	SCS (SERVICE CHECK SIGNAL)	Detects service check signal
9	SG5 (SENSOR GROUND)	Sensor ground
10	SG4 (SENSOR GROUND)	Sensor ground
11	Not used	
12	RFC RLY CL- (RADIATOR FAN CONTROL)	Drives radiator fan relay
13	FUEL PUMP RLY CL- (IMMOBILIZER FUEL PUMP RELAY)	Drives PGM-FI main relay 2
14	Not used	
15	F-CAN_H (CAN COMMUNICATION SIGNAL HIGH)	Sends and receives communication signal
16	S-NET (SERIAL COMMUNICATION FOR IMMOBILIZER)	Sends serial communication signal
17	Not used	
18	BKSWNC (BRAKE PEDAL POSITION SWITCH)	Detects brake pedal position switch signal
19	Not used	
20	STS (STARTER SWITCH SIGNAL)	Detects starter switch signal
21	Not used	
22	CLUTCH SW(SA) (CLUTCH PEDAL POSITION SWITCH A SIGNAL)	Detects clutch pedal position switch A signal
23	Not used	
24	VSP (VEHICLE SPEED SIGNAL OUTPUT)	Sends vehicle speed signal
25	Not used	
26	FI MAIN RLY CL- (PGM-FI MAIN RELAY 1)	Drives PGM-FI main relay 1 and ignition coil relay
27	F-CAN_L (CAN COMMUNICATION SIGNAL LOW)	Sends and receives communication signal
28	Not used	
29	Not used	
30	Not used	
31	STOP SW (BRAKE PEDAL POSITION SWITCH)	Detects brake pedal position switch signal
32	SG6 (SENSOR GROUND)	Sensor ground
33	Not used	
34	Not used	
35	REVERSE LOCK SOL (REVERSE LOCKOUT SOLENOID)	Drives reverse lockout solenoid
36	FAN HI SIGNAL (RADIATOR FAN CONTROL)	Drives A/C condenser fan relay and fan control relay
37 ¹	VSV (EVAPORATIVE EMISSION (EVAP) CANISTER VENT SHUT VALVE)	Drives EVAP canister vent shut valve
38 ¹	ST CUT RLY2 CL- (STARTER CUT RELAY 2)	Drives starter cut relay 2
39 ¹	PTANK (FUEL TANK PRESSURE (FTP) SENSOR)	Detects FTP sensor signal
40	Not used	
41	V V 5V G1 (SENSOR VOLTAGE)	Provides sensor reference voltage
42	V V GND08 (SENSOR GROUND)	Sensor ground
43	Not used	
44	Not used	
45	APS2 (ACCELERATOR PEDAL POSITION (APP) SENSOR B)	Detects APP sensor B signal
46	VCC5 (SENSOR VOLTAGE)	Provides sensor reference voltage
47	FI SUB RLY CL- (PGM-FI SUBRELAY)	Drives PGM-FI subrelay
48	A/C MG CLUTCH RLY CL- (A/C COMPRESSOR CLUTCH RELAY)	Drives A/C compressor clutch relay
49	ST CUT RLY1 CL- (STARTER CUT RELAY 1)	Drives starter cut relay 1
50	+B BACKUP FI-ECU (VOLTAGE BACK UP)	Power source for PCM memory
51	IG1 FUEL PUMP (IGNITION SIGNAL)	Detects ignition signal
52	ST RLY 1 TO 2 (STARTER CUT RELAY RETURN SIGNAL)	Detects starter cut relay signal
53	Not used	
54	Not used	
55	VCC6 (SENSOR VOLTAGE)	Provides sensor reference voltage
56	PD SENSOR (A/C PRESSURE SENSOR)	Detects A/C pressure sensor signal

Terminal number	Terminal name	Description
57	APS1 (ACCELERATOR PEDAL POSITION (APP) SENSOR A)	Detects APP sensor A signal
58	VCC4 (SENSOR VOLTAGE)	Provides sensor reference voltage

*1: KA/KC.