

# Troubleshooting

## Engine/Powertrain Control Module Terminal Arrangement ('99 – 00 Models except D16Y5 engine with M/T) (cont'd)

ECM/PCM CONNECTOR C (31P)



ECM/PCM CONNECTOR C (31P)

Wire side of female terminals

NOTE: Standard battery voltage is 12 V.

Terminal number	Wire color	Terminal name	Description	Signal
1	BLK/WHI	POSITIVE PRIMARY HEATED OXYGEN SENSOR HEATER CON-TRACT	Drives primary heated oxygen sensor heater.	With ignition switch ON (II), battery voltage. With fully warmed up engine running, duty cycled.
2	WHI/GRN	ALTC (ALTERNATOR CONTROL)	Sends alternator control signal.	With fully warmed up engine running, battery voltage. During driving with small electrical load, 0 V.
3	RED/BLU	KS (KNOCK SENSOR)	Detects KS signal.	With engine knocking, on/off.
4	WHI/RED	ALTF (ALTERNATOR FR SIGNAL)	Detects alternator FR signal.	With fully warmed up engine running, 0 V + battery voltage (depending on electrical load).
5 <sup>(1)</sup>	WHI/BLK	SOPL (SOIL VALVE LIFT SEN-SON)	Detects SOIL valve lift sensor signal.	At idle, about 1.2 V.
6	GRN/WHI	SG1 (SENSOR GROUND)	Ground for MAP sensor.	Less than 1.0 V at all times.
7	BLU	CKPF (CKP SENSOR P SIDE)	Detects CKP sensor.	With engine running, pulses.
8	WHI	CKPM (CKP SENSOR M SIDE)	Ground for CKP sensor.	
9 <sup>(2)</sup>	BLU/BLK	VTM (VTEC PRESSURE SWITCH SIGNAL)	Detects VTEC pressure switch signal.	With engine at low engine speed, 0 V. With engine at high engine speed, battery voltage.
10	WHI	PHOS (PRIMARY HEATED OXYGEN SENSOR SEN-SOR 1)	Detects primary heated oxygen sensor (sen-sor 1) signal.	With throttle fully opened from idle with fully warmed up engine, above 0.5 V. With throttle quickly closed, below 0.4 V.
11	RED/GRN	MAP (MANIFOLD ABSOLUTE PRESSURE SENSOR)	Detects MAP sensor signal.	With ignition switch ON (II), about 0 V. At idle, about 1.0 V (depending on engine speed).
12	GRN/BLK	SG2 (SENSOR GROUND)	Sensor ground.	Less than 1.0 V at all times.
13	YEL/RED	VCC1 (SENSOR VOLTAGE)	Power source to MAP sensor.	With ignition switch ON (II), about 5 V. With ignition switch OFF, 0 V.
14	GRN	TDCP (TDC SENSOR P SIDE)	Detects TDC sensor.	With engine running, pulses.
15	RED	TDCM (TDC SENSOR M SIDE)	Ground for TDC sensor.	
16	BLU/RED	CKPF (CKP SENSOR P SIDE)	Detects CKP sensor.	With engine running, pulses.
17	BLU/WHI	VSS (VEHICLE SPEED SENSOR)	Detects VSS signal.	With ignition switch ON (II) and from wheel rotating, cycles 0 V + about 5 V or battery voltage.
18	RED/YEL	IAT (INTAKE AIR TEMPERA-TURE SENSOR)	Detects IAT sensor signal.	With ignition switch ON (II), about 0.1 - 4.0 V (depending on intake air temperature).
19	RED/WHI	ECT (ENGINE COOLANT TEM-PERATURE SENSOR)	Detects ECT sensor signal.	With ignition switch ON (II), about 0.1 - 4.0 V (depending on engine coolant temperature).
20	RED/BLK	TPS (THROTTLE POSITION SEN-SOR)	Detects TP sensor signal.	With throttle fully open, about 4.0 V. With throttle fully closed, about 0.5 V.
21	YEL/BLU	VCC2 (SENSOR VOLTAGE)	Provides sensor voltage.	With ignition switch ON (II), about 5 V. With ignition switch OFF, 0 V.
22	YEL	CKPF (CKP SENSOR P SIDE)	Detects CKP sensor.	With engine running, pulses.
23	BLK	CKPM (CKP SENSOR M SIDE)	Ground for CKP sensor.	
24	WHI/RED	CKPM (CKP SENSOR M SIDE)	Ground for CKP sensor signal.	

<sup>(1)</sup> A/T D16Y7, D16Y8 engine

<sup>(2)</sup> B/A

<sup>(3)</sup> CVT D16Y5 engine

<sup>(4)</sup> D16Y5, D16Y8, B16A2 engine

# D16y7 Repair Manual

**RM Cervero**



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