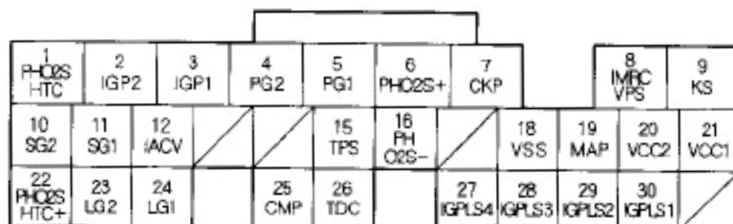


TERMINAL LOCATIONS

ECM/PCM Inputs and Outputs at Connector A (31P)

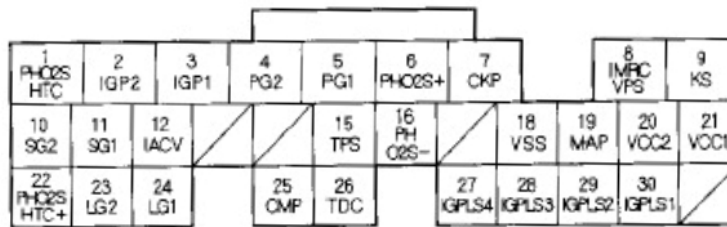


NOTE: Standard battery voltage is 12 V.

Terminal number	Wire color	Terminal name	Description	Signal
1	BLK/WHT	PHO2SHTC (AIR FUEL RATIO SENSOR HEATER CONTROL)	Drives air fuel ratio sensor heater	With ignition switch ON (II): battery voltage With fully warmed up engine running: 0 V
2	YEL/BLK	IGP2 (POWER SOURCE)	Power source for the ECM/PCM circuit	With the ignition switch ON (II): battery voltage With the ignition switch OFF: about 0 V
3	YEL/BLK	IGP1 (POWER SOURCE)	Power source for the ECM/PCM circuit	With the ignition switch ON (II): battery voltage With the ignition switch OFF: about 0 V
4	BLK	PG2 (POWER GROUND)	Ground for the ECM/PCM circuit	Less than 1.0 V at all times
5	BLK	PG1 (POWER GROUND)	Ground for the ECM/PCM circuit	Less than 1.0 V at all times
6	RED	PHO2S + (AIR FUEL RATIO (A/F) SENSOR, SENSOR 1 + SIDE)	Detects A/F sensor (sensor 1) signal	
7	BLU	CKP (CRANKSHAFT POSITION SENSOR)	Detects CKP sensor signal	With engine running: pulses
8 ^{1,2}	RED/YEL	IMRC VPS (INTAKE MANIFOLD RUNNER CONTROL VALVE POSITION SENSOR)	Detects IMRC position sensor signal	With engine speed below 4700 rpm: about 3.75 V With engine speed above 4700 rpm: about 1.25 V
9	RED/BLU	KS (KNOCK SENSOR)	Detects knock sensor signal	With engine knocking: pulses
10	GRN/YEL	SG2 (SENSOR GROUND)	Sensor ground	Less than 1.0 V at all times
11	GRN/WHT	SG1 (SENSOR GROUND)	Sensor ground	Less than 1.0 V at all times
12	BLK/RED	IACV (IDLE AIR CONTROL (IAC) VALVE)	Drives IAC valve	With engine running: duty controlled
15	RED/BLK	TPS (THROTTLE POSITION SENSOR)	Detects TP sensor signal	With throttle fully open: about 4.8 V With throttle fully closed: about 0.5 V
16	RED/YEL	PHO2S - (AIR FUEL RATIO (A/F) SENSOR, SENSOR 1 - SIDE)	Detects A/F sensor (sensor 1) signal	
18 ^{1,2}	WHT/GRN	VSS (VEHICLE SPEED SENSOR)	Detects VSS signal	With ignition switch ON (II) and front wheels rotating: cycles from about 0 V to about 5 V or battery voltage

4-2-10

ECM/PCM Inputs and Outputs at Connector A (31P)

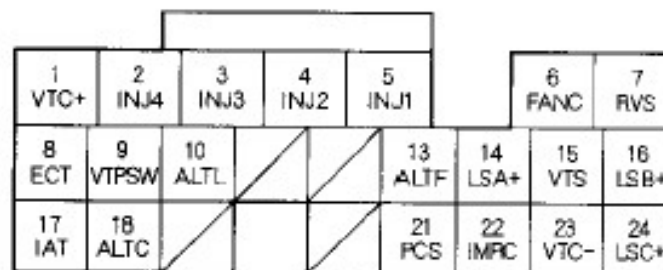


Wire side of female terminals

NOTE: Standard battery voltage is 12 V.

Terminal number	Wire color	Terminal name	Description	Signal
19	GRN/RED	MAP (MANIFOLD ABSOLUTE PRESSURE SENSOR)	Detects MAP sensor signal	With ignition switch ON (II): about 3 V At idle: about 1.0 V (depending on engine speed)
20	YEL/BLU	VCC2 (SENSOR VOLTAGE)	Provides sensor voltage	With ignition switch ON (II): about 5 V With ignition switch OFF: about 0 V
21	YEL/RED	VCC1 (SENSOR VOLTAGE)	Provides sensor voltage	With ignition switch ON (II): about 5 V With ignition switch OFF: about 0 V
22	WHT	PHO2SHTC + (AIR FUEL RATIO (A/F) SENSOR HEATER CONTROL + SIDE)	Detects A/F sensor heater voltage	With ignition switch ON (II): battery voltage
23	BRN/YEL	LG2 (LOGIC GROUND)	Ground for the ECM/PCM circuit	Less than 1.0 V at all times
24	BRN/YEL	LG1 (LOGIC GROUND)	Ground for the ECM/PCM circuit	Less than 1.0 V at all times
25	BLU/WHT	CMP (CAMSHAFT POSITION SENSOR)	Detects CMP sensor signal	With engine running: pulses
26	GRN	TDC (TOP DEAD CENTER SENSOR)	Detects TDC sensor	With engine running: pulses
27	BRN	IGPLS4 (No. 4 IGNITION COIL PULSE)	Drives No. 4 ignition coil	With ignition switch ON (II): about 0 V With engine running: pulses
28	WHT/BLU	IGPLS3 (No. 3 IGNITION COIL PULSE)	Drives No. 3 ignition coil	
29	BLU/RED	IGPLS2 (No. 2 IGNITION COIL PULSE)	Drives No. 2 ignition coil	
30	YEL/GRN	IGPLS1 (No. 1 IGNITION COIL PULSE)	Drives No. 1 ignition coil	

ECM/PCM Inputs and Outputs at Connector B (24P)



Wire side of female terminals

NOTE: Standard battery voltage is 12 V.

Terminal number	Wire color	Terminal name	Description	Signal
1	BLU/WHT	VTC + (VTC OIL CONTROL SOLENOID VALVE + SIDE)	Drives VTC oil control solenoid valve	With ignition switch ON (II): 0 V
2	YEL	INJ4 (No. 4 INJECTOR)	Drives No. 4 injector	At idle: duty controlled
3	BLU	INJ3 (No. 3 INJECTOR)	Drives No. 3 injector	
4	RED	INJ2 (No. 2 INJECTOR)	Drives No. 2 injector	
5	BRN	INJ1 (No. 1 INJECTOR)	Drives No. 1 injector	
6	GRN	FANC (RADIATOR FAN CONTROL)	Drives radiator fan relay	With radiator fan running: about 0 V With radiator fan stopped: battery voltage
7**	GRN/WHT	RVS (REVERSE LOCK SOLENOID VALVE)	Drives reverse lock solenoid valve	With vehicle speed below 9.4 mph (15 km/h): battery voltage With vehicle speed above 12.5 mph (20 km/h): 0 V
8	RED/WHT	ECT (ENGINE COOLANT TEMPERATURE SENSOR)	Detects ECT sensor signal	With the ignition switch ON (II): about 0.1–4.8 V (depending on engine coolant temperature)
9	BLU/BLK	VTPSW (VTEC OIL PRESSURE SWITCH)	Detects VTEC oil pressure switch signal	With engine at low engine speed: about 0 V With engine at high engine speed: battery voltage
10	WHT/BLU	ALTL (ALTERNATOR L SIGNAL)	Detects alternator L signal	With ignition switch ON (II): about 0 V With engine running: battery voltage
13	WHT/RED	ALTF (ALTERNATOR FR SIGNAL)	Detects alternator FR signal	With engine running: about 0 V–5 V (depending on electrical load)
14**	RED/BLK	LSA+ (A/T PRESSURE CONTROL SOLENOID VALVE A + SIDE)	Drives A/T pressure control solenoid valve A	With the ignition switch ON (III): duty controlled
15	GRN/YEL	VTS (VTEC SOLENOID VALVE)	Drives VTEC solenoid valve	At idle: about 0 V
16**	BRN/WHT	LSB+ (A/T PRESSURE CONTROL SOLENOID VALVE B + SIDE)	Drives A/T pressure control solenoid valve B	With the ignition switch ON (III): duty controlled
17	RED/YEL	IAT (INTAKE AIR TEMPERATURE SENSOR)	Detects IAT sensor signal	With ignition switch ON (II): about 0.1 V–4.8 V (depending on intake air temperature)
18	WHT/GRN	ALTC (ALTERNATOR CONTROL)	Sends alternator control signal	With engine running: about 0 V–5 V (depending on electrical load)
21	YEL/BLU	PCS (EVAPORATIVE EMISSION CANISTER PURGE VALVE)	Drives EVAP canister purge valve	With engine running, engine coolant below 149°F (65°C): battery voltage With engine running, engine coolant above 149°F (65°C): duty controlled
22	RED/BLU	IMRC (INTAKE MANIFOLD RUNNER CONTROL SOLENOID VALVE)	Drives IMRC solenoid valve	With engine speed below 4,700 rpm: battery voltage With engine speed above 4,700 rpm: 0 V
23	BLK/WHT	VTC- (VTC OIL CONTROL SOLENOID VALVE - SIDE)	Drives VTC oil control solenoid valve	With the ignition switch ON (II): 0 V
24**	BLU/YEL	LSC+ (A/T PRESSURE CONTROL SOLENOID VALVE C + SIDE)	Drives A/T pressure control solenoid valve C	With the ignition switch ON (III): duty controlled

* 1: A/T

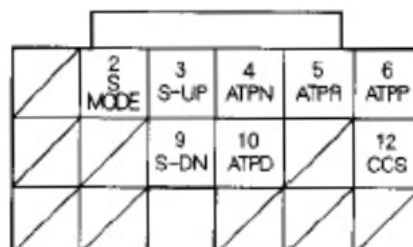
PCM Inputs and Outputs at Connector C (22P) *1

1 LSA-	2 SHC	3 SHE	4 SHB	5 SHD	6 SHA	7 NM
8 LSB-	9 ATPDB	10 OP3 SW	12 ATP NP	13 OP2 SW	14 ATFT	15 NC
16 LSC-		18 ATP FWD				

Wire side of female terminals

Number	Color	Function	Description	Notes
1	WHT/BLK	LSA – (A/T PRESSURE CONTROL SOLENOID VALVE A – SIDE)	Ground for A/T pressure control solenoid valve A	
2	GRN	SHC (SHIFT SOLENOID VALVE C)	Drives shift solenoid valve C	With engine running in Neutral position, or in D, M, or D3 position (in 1st, 3rd, 5th gears): battery voltage With engine running in Park, R position, or in D, M, or D3 position (in 2nd, 4th gears): about 0 V
3	YEL	SHE (SHIFT SOLENOID VALVE E)	Drives shift solenoid valve E	With engine running in Park, R position: battery voltage With engine running in Neutral position, or in D, M, or D3 position (in 1st, 2nd, 3rd, 4th, 5th gears): about 0 V
4	GRN/WHT	SHB (SHIFT SOLENOID VALVE B)	Drives shift solenoid valve B	With engine running in Park, R, Neutral position, or D, M, or D3 position (in 1st, 2nd gears): battery voltage With engine running in D, M, or D3 position (in 3rd, 4th, 5th gears): about 0 V
5	GRN/RED	SHD (SHIFT SOLENOID VALVE D)	Drives shift solenoid valve D	With engine running in D, M, or D3 position (in 2nd, 3rd gears): battery voltage With engine running in Park, R, Neutral position, or D, M, or D3 position (in 1st, 3rd, 4th gears): about 0 V
6	BLU/BLK	SHA (SHIFT SOLENOID VALVE A)	Drives shift solenoid valve A	With engine running in R position, or D, M, or D3 position (in 1st, 4th, 5th gears): battery voltage With engine running in Park, Neutral position, or D, M, or D3 position (in 2nd, 3rd gears): about 0V
7	WHT/RED	NM (MAINSHAFT SPEED SENSOR)	Detects mainshaft speed sensor signals	With engine running: pulses
8	BLK/RED	LSB – (A/T PRESSURE CONTROL SOLENOID VALVE B – SIDE)	Ground for A/T pressure control solenoid valve B	
9	RED	ATPD3 (TRANSMISSION RANGE SWITCH D3 POSITION)	Detects transmission range switch D3 position signal	In D3 position: about 0 V In any other position: about 5 V or battery voltage
10	BLU/WHT	OP3SW (3RD OIL PRESSURE SWITCH)	Detects 3rd oil pressure switch	With the ignition switch ON (II): about 5 V
12	RED/WHT	ATPRVS (TRANSMISSION RANGE SWITCH R POSITION)	Detects transmission range switch R position signal	In R position: about 0 V In any other position: about 5 V or battery voltage
13	BLU/RED	OP2SW (2ND OIL PRESSURE SWITCH)	Detects 2nd oil pressure switch	With the ignition switch ON (II): about 5 V
14	RED/YEL	ATFT (ATF TEMPERATURE SENSOR)	Detects ATF temperature sensor signal	With the ignition switch ON (II): about 0.1 V – 4.2 V (depending on ATF temperature)
15	BLU	NC (COUNTERSHAFT SPEED SENSOR)	Detects countershaft speed sensor signals	With ignition switch ON (II), and front wheels rotating: battery voltage
16	WHT/BLU	LSC – (A/T PRESSURE CONTROL SOLENOID VALVE C – SIDE)	Ground for A/T pressure control solenoid valve C	
18	BLU/YEL	ATPFWD (TRANSMISSION RANGE SWITCH D/D3)	Detects transmission range switch D/D3 position signal	In D or D3 position: about 0 V In any other position: about 5 V or battery voltage

PCM Inputs and Outputs at Connector D (17P) **



Wire side of female terminals

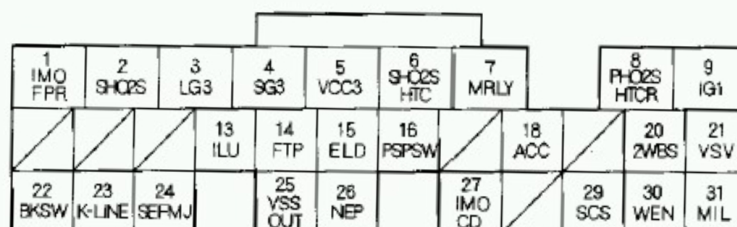
NOTE: Standard battery voltage is 12 V.

NOTE: Standard battery voltage is 12 V.

Terminal number	Wire color	Terminal name	Description	Signal
2	BRN	S-MODE (SEQUENTIAL SPORTSHIFT MODE)	Detects sequential sportshift mode switch signal	In sequential sportshift mode (shift lever is positioned in sequential sportshift mode): 0 V In other than sequential sportshift mode: about 5 V
3	WHT/BLU	S-UP (UP SHIFT SWITCH)	Detects upshift switch signal	In sequential sportshift mode and shift lever pushed toward upshift position (marked with +): 0 V In sequential sportshift mode and shift lever in neutral position: about 5 V
4	BLK/RED	ATPN (TRANSMISSION RANGE SWITCH NEUTRAL POSITION)	Detects transmission range switch Neutral position signal	In Neutral position: about 0 V In any other position: about 8.5 V
5	WHT	ATPR (TRANSMISSION RANGE SWITCH R POSITION)	Detects transmission range switch R position signal	In R position: about 0 V In any other position: battery voltage
6	BLU/BLK	ATPP (TRANSMISSION RANGE SWITCH PARK POSITION)	Detects transmission range switch Park position signal	In Park position: about 0 V In any other position: about 8.5 V
9	BRN/WHT	S-DN (DOWN SHIFT SWITCH)	Detects downshift switch signal	In sequential sportshift mode and shift lever pushed toward downshift position (marked with -): 0 V In sequential sportshift mode and shift lever in neutral position: about 5 V
10	RED	ATPD (TRANSMISSION RANGE SWITCH D POSITION)	Detects transmission range switch D position signal	In D position: about 0 V In any other position: about 5 V or battery voltage
12	BLU/ORN	CCS (CRUISE CONTROL SIGNAL)	Detects cruise control signal	With ignition switch ON (II): pulses

* 1: A/T

ECM/PCM Inputs and Outputs at Connector E (31P)



Wire side of female terminals

number	Wire color	Terminal name	Description	Signal
1	GRN/YEL	IMO FPR (IMMOBILIZER FUEL PUMP RELAY)	Drives PGM-FI main relay 2	0 V for 2 seconds after turning ignition switch ON (II), then battery voltage
2	WHT/RED	SHO2S (SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO2S), SENSOR 2)	Detects secondary HO2S (sensor 2) signal	With throttle fully opened from idle with fully warmed up engine: above 0.6 V With throttle quickly closed: below 0.4 V
3	BRN/YEL	LG3 (LOGIC GROUND)	Ground for the ECM/PCM control circuit	Less than 1.0 V at all times
4	PNK	SG3 (SENSOR GROUND)	Sensor ground	Less than 1.0 V at all times
5	YEL/BLU	VCC3 (SENSOR VOLTAGE)	Provides sensor voltage	With ignition switch ON (III): about 5 V With ignition switch OFF: about 0 V
6	BLK/WHT	SO2SHTC (SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO2S) HEATER CONTROL)	Drives secondary HO2S heater	With ignition switch ON (II): battery voltage With fully warmed up engine running: duty controlled
7	RED/YEL	MRLY (PGM-FI MAIN RELAY)	Drives PGM-FI main relay 1 Power source for the DTC memory	With ignition switch ON (III): about 0 V With ignition switch OFF: battery voltage
8	ORN	PO2SHTCR (AIR FUEL RATIO SENSOR HEATER CONTROL RELAY)	Drives air fuel ratio sensor heater relay	With ignition switch ON (II): 0 V
9	BLK/YEL	IG1 (IGNITION SIGNAL)	Detects ignition signal	With ignition switch ON (II): battery voltage With ignition switch OFF: about 0 V
13**	WHT/BLU	ILU (INTERLOCK CONTROL UNIT)	Drives interlock control unit	With ignition switch ON (II) and brake pedal pressed: about 8.5 V
14	LT GRN	FTP (FUEL TANK PRESSURE (FTP) SENSOR)	Detects FTP sensor signal	With ignition switch ON (II) and fuel fill cap open: about 2.5 V
15	GRN/RED	ELD (ELECTRICAL LOAD DETECTOR)	Detects ELD signal	With ignition switch ON (II): about 0.1 V-4.8 V (depending on electrical load)
16	LT GRN/BLK	PSPSW (POWER STEERING PRESSURE SWITCH SIGNAL)	Detects PSP switch signal	At idle with steering wheel straight ahead: 0 V At idle with steering wheel at full lock: battery voltage
18	RED	ACC (A/C CLUTCH RELAY)	Drives A/C clutch relay	With compressor ON: about 0 V With compressor OFF: battery voltage

NOTE: Standard battery voltage is 12 V.

Terminal number	Wire color	Terminal name	Description	Signal
20	BLU/RED	2WBS (EVAPORATIVE EMISSION (EVAP) BYPASS SOLENOID VALVE)	Drives EVAP bypass solenoid valve	With ignition switch ON (II): battery voltage
21	LT GRN/RED	VSV (EVAPORATIVE EMISSION (EVAP) CANISTER VENT SHUT VALVE)	Drives EVAP canister vent shut valve	With ignition switch ON (II): battery voltage
22	WHT/BLK	BKSW (BRAKE PEDAL POSITION SWITCH)	Detects brake pedal position switch signal	With brake pedal released: about 0 V With brake pedal pressed: battery voltage
23	LT BLU	K-LINE	Sends and receives scan tool signals	With ignition switch ON (II): pulses or battery voltage
24	YEL	SEFMJ	Communicates with multiplex control unit	With ignition switch ON (II): about 5 V With engine running under load: pulses
25	BLU/WHT	VSSOUT (VEHICLE SPEED SENSOR OUTPUT SIGNAL)	Sends vehicle speed sensor signal	Depending on vehicle speed: pulses
26	BLU	NEP (ENGINE SPEED PULSE)	Outputs engine speed pulse	With engine running: pulses
27	RED/BLU	IMOC0 (IMMOBILIZER CODE)	Detects immobilizer signal	
29	BRN	SCS (SERVICE CHECK SIGNAL)	Detects service check signal	With the service check signal shorted with the PGM Tester: about 0 V With the service check signal opened: about 5 V
30	RED/WHT	WEN (WRITE ENABLE SIGNAL)	Detects write enable signal	With ignition switch ON (II): about 0 V
31	GRN/ORN	MIL (MALFUNCTION INDICATOR LAMP)	Drives MIL	With MIL turned ON: about 0 V With MIL turned OFF: battery voltage