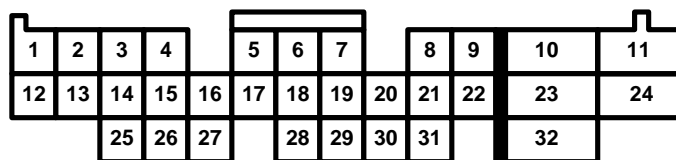


Engine Control Module Terminal Arrangement



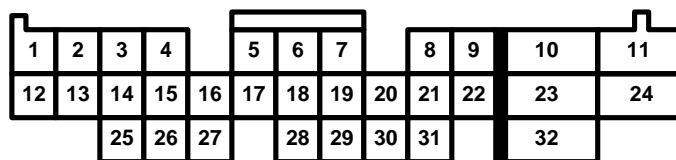
wire side of female terminals

ECM Inputs and Outputs at Connector A (32P)

NOTE: Standard battery voltage is 12 V.

Terminal number	Wire color	Terminal name	Description	Signal
1	YEL/GRN	MTRTW	Sends ECT signal to ECT gauge	With ignition switch ON (II): duty controlled
2	RED	SAVS (AIR CONTROL VALVE VACUUM CONTROL SOLENOID VALVE)	Drives air control valve vacuum control solenoid valve	With ignition switch ON (II): battery voltage With air pump working: about 0 V
3	ORN	2WBS (EVAP BYPASS SOLENOID VALVE)	Drives EVAP bypass solenoid valve	With ignition switch ON (II): battery voltage
4	LT GRN/WHT	VSV (EVAP CANISTER VENT SHUT VALVE)	Drives EVAP canister vent shut valve	With ignition switch ON (II): battery voltage
6	RED/YEL	PCS (EVAP 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
9	BLU/WHT	VSS (VEHICLE SPEED SENSOR (VSS) INPUT SIGNAL)	Sends vehicle speed sensor (VSS) signal	Depending on vehicle speed: pulses
10	BRN	SCS (SERVICE CHECK SIGNAL)	Detects service check connector signal (the signal causing a DTC indication)	With the service check signal shorted with the HDS: about 0 V With the service check signal opened: about 5 V or battery voltage
12	PNK	IMOLMP (IMMOBILIZER INDICATOR LIGHT)	Drives immobilizer indicator	With immobilizer indicator turned ON: about 0 V With immobilizer indicator turned OFF: battery voltage
13	PNK/BLU	IMOEN (IMMOBILIZER ENABLE SIGNAL)	Sends immobilizer enable signal	
15	GRN/YEL	IMOFLR (IMMOBILIZER FUEL PUMP RELAY)	Drives fuel pump relay	0 V for 2 seconds after turning ignition switch ON (II), then battery voltage
17	RED	ACC (A/C CLUTCH RELAY)	Drives A/C clutch relay	With compressor ON: about 0 V With compressor OFF: battery voltage

Engine Control Module Terminal Arrangement



wire side of female terminals

ECM Inputs and Outputs at Connector A (32P)

NOTE: Standard battery voltage is 12 V.

Terminal number	Wire color	Terminal name	Description	Signal
18	GRN/ORN	MIL (MALFUNCTION INDICATOR LAMP)	Drives MIL	With MIL turned ON: about 0 V With MIL turned OFF: battery voltage
19	BLU	NEP (ENGINE SPEED PULSE)	Outputs engine speed pulse	With engine running: pulses
20	GRN	FANC (RADIATOR FAN CONTROL)	Drives radiator fan relay	With radiator fan running: about 0 V With radiator fan stopped: battery voltage
21	GRY	K-LINE	Sends and receives scan tool signal	With ignition switch ON (II): battery voltage
24	BLU/ORN	STS (STARTER SWITCH SIGNAL)	Detects starter switch signal	With starter switch ON (III): battery voltage With starter switch OFF: about 0 V
25	RED/BLU	IMOCO (IMMOBILIZER CODE)	Detects immobilizer signal	
26	BLU/BLK	EPSLD (ELECTRICAL P/S LOAD DETECT)	Detects P/S load signal	With steering wheel at full lock: battery voltage momentarily With steering wheel stationary: about 0 V
27	BLU/RED	ACS (A/C SWITCH SIGNAL)	Detects A/C switch signal	With A/C switch ON: about 0 V With A/C switch OFF: about 5 V
28	BLU	APR (AIR PUMP RELAY)	Drives air pump relay	With ignition switch ON (II): about 0 V With air pump working: battery voltage
29	LT GRN	PTANK (FUEL TANK PRESSURE (FTP) SENSOR)	Detects fuel tank pressure (FTP) sensor signal	With ignition switch ON (II) and fuel fill cap: opened: about 2.5 V
30	GRN/RED	ELD	Detects ELD signal	With parking lights turned on at idle: about 2.5 – 3.5 V With high beam headlights turned on at idle: about 1.5 – 2.5 V
32	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