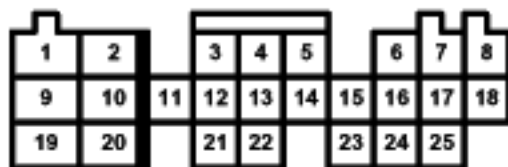


wire side of female terminals

ECM Inputs and Outputs at Connector C (31P)

NOTE: Standard battery voltage is 12 V.

Terminal number	Wire color	Terminal name	Description	Signal
16	WHT	PHO2S (PRIMARY HEATED OXYGEN SENSOR, SENSOR 1)	Detects primary heated oxygen sensor (sensor 1) signal	With throttle fully opened from idle with fully warmed up engine: above 0.6 V With throttle quickly closed: below 0.4 V
17	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)
18	GRN/YEL	SG2 (SENSOR GROUND)	Sensor ground	Less than 1.0 V at all times
19	YEL/RED	VCC1 (SENSOR VOLTAGE)	Power source to MAP sensor	With ignition switch ON (II): about 5 V With ignition switch OFF: about 0 V
20	GRN	TDC1P (CAMSHAFT POSITION (CMP) SENSOR (TOP DEAD CENTER (TDC) SENSOR) A P SIDE)	Detects CMP (TDC) sensor A	With engine running: pulses
21	RED	TDC1M (CAMSHAFT POSITION (CMP) SENSOR (TOP DEAD CENTER (TDC) SENSOR) A M SIDE)	Ground for CMP (TDC) sensor A	
22	RED/BLU	KS (KNOCK SENSOR)	Detects knock sensor signal	With engine knocking: pulses
24	WHT/BLK	ECS (AIR PUMP ELECTRIC CURRENT SENSOR)	Detects air pump electric current sensor signal	With ignition switch ON (II): 0.5 V With air pump working: about 2 – 5 V
25	RED/YEL	IAT (INTAKE AIR TEMPERATURE SENSOR)	Detects IAT sensor signal	With ignition switch ON (II): about 0.1 – 4.8 V (depending on intake air temperature)
26	RED/WHT	ECT (ENGINE COOLANT TEMPERATURE SENSOR)	Detects ECT sensor signal	With ignition switch ON (II): about 0.1 – 4.8 V (depending on engine coolant temperature)
27	RED/BLK	TPS (THROTTLE POSITION SENSOR)	Detects TP sensor signal	With throttle fully open: about 4.8 V With throttle fully closed: about 0.3 V
28	YEL/BLU	VCC2 (SENSOR VOLTAGE)	Provides sensor voltage	With ignition switch ON (II): about 5 V With ignition switch OFF: about 0 V
29	YEL	TDC2P (CAMSHAFT POSITION (CMP) SENSOR (TOP DEAD CENTER (TDC) SENSOR) B P SIDE)	Detects CMP (TDC) sensor B	With engine running: pulses
30	BLK	TDC2M (CAMSHAFT POSITION (CMP) SENSOR (TOP DEAD CENTER (TDC) SENSOR) B M SIDE)	Ground for CMP (TDC) sensor B	

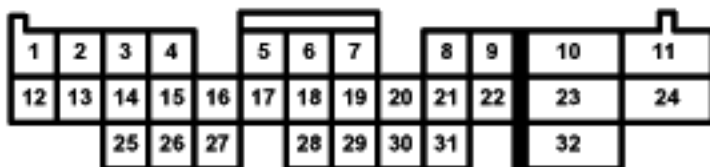


wire side of female terminals

ECM Inputs and Outputs at Connector B (25P)

NOTE: Standard battery voltage is 12 V.

Terminal number	Wire color	Terminal name	Description	Signal
1	YEL/BLK	IGP1 (POWER SOURCE)	Power source for ECM control circuit	With ignition switch ON (II): battery voltage With ignition switch OFF: about 0 V
2	BLK	PG1 (POWER GROUND)	Ground for ECM control circuit	Less than 1.0 V at all times
3	RED	INJ2 (No. 2 INJECTOR)	Drives No. 2 injector	With ignition switch ON (II): battery voltage
4	BLU	INJ3 (No. 3 INJECTOR)	Drives No. 3 injector	With engine running: duty controlled
5	YEL	INJ4 (No. 4 INJECTOR)	Drives No. 4 injector	
9	YEL/BLK	IGP2 (POWER SOURCE)	Power source for ECM control circuit	With ignition switch ON (II): battery voltage With ignition switch OFF: about 0 V
10	BLK	PG2 (POWER GROUND)	Ground for ECM control circuit	Less than 1.0 V at all times
11	BRN	INJ1 (No. 1 INJECTOR)	Drives No.1 injector	With ignition switch ON (II): battery voltage With engine running: duty controlled
12	GRN/YEL	VTS (VTEC SOLENOID VALVE)	Drives VTEC solenoid valve	With engine at low rpm: about 0 V With engine at high rpm: battery voltage
20	BRN/YEL	LG1 (LOGIC GROUND)	Ground for ECM control circuit	Less than 1.0 V at all times
21	WHT/RED	VBU (VOLTAGE BACK UP)	Power source for ECM control circuit Power source for DTC memory	Battery voltage at all times
22	BRN/YEL	LG2 (LOGIC GROUND)	Ground for ECM control circuit	Less than 1.0 V at all times
23	BLK/RED	IACV (IDLE AIR CONTROL VALVE)	Drives IAC valve	With engine running: duty controlled

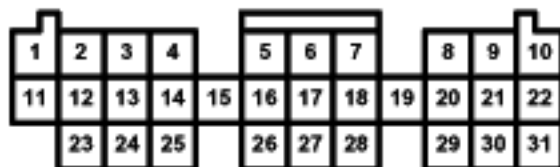


wire side of female terminals

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	ZWBS (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

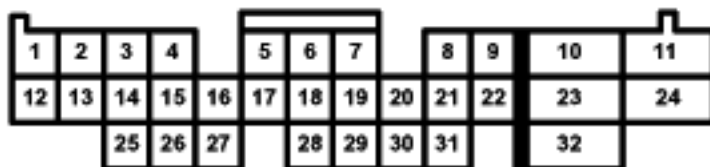


wire side of female terminals

ECM Inputs and Outputs at Connector C (31P)

NOTE: Standard battery voltage is 12 V.

Terminal number	Wire color	Terminal name	Description	Signal
1	BLK/WHT	PO2SHTC (PRIMARY HEATED OXYGEN SENSOR HEATER CONTROL)	Drives primary heated oxygen sensor heater	With ignition switch ON (II): battery voltage With fully warmed up engine running: duty controlled
2	WHT/GRN	ALTC (ALTERNATOR CONTROL)	Sends alternator control signal	With fully warmed up engine running: about 8 V With engine running at low electrical load: about 0 V
4	WHT	IGPLS1 (No. 1 IGNITION COIL PULSE)	Drives No. 1 ignition coil	With ignition switch ON (II): 0 V With engine running: pulses
5	WHT/RED	ALTF (ALTERNATOR FR SIGNAL)	Detects alternator FR signal	With fully warmed up engine running: 0 V – battery voltage (depending on electrical load)
7	GRN/WHT	SG1 (SENSOR GROUND)	Ground for MAP sensor	Less than 1.0 V at all times
8	BLU	CKPP (CKP SENSOR P SIDE)	Detects CKP sensor	With engine running: pulses
9	WHT	CKPM (CKP SENSOR M SIDE)	Ground for CKP sensor	
10	BLU/BLK	VTM (VTEC OIL PRESSURE SWITCH SIGNAL)	Detects VTEC oil pressure switch signal	With engine at low engine speed: about 0 V With engine at high engine speed (vehicle running): battery voltage
11	BLK/WHT	SO2SHTC (SECONDARY HEATED OXYGEN SENSOR HEATER CONTROL)	Drives secondary heated oxygen sensor heater	With ignition switch ON (II): battery voltage With fully warmed up engine running: duty controlled
12	WHT/GRN	IGPLS2 (No. 2 IGNITION COIL PULSE)	Drives No. 2 ignition coil	With ignition switch ON (II): 0 V With engine running: pulses
13	WHT/BLK	IGPLS3 (No. 3 IGNITION COIL PULSE)	Drives No. 3 ignition coil	
14	WHT/BLU	IGPLS4 (No. 4 IGNITION COIL PULSE)	Drives No. 4 ignition coil	
15	WHT/RED	SHO2S (SECONDARY HEATED OXYGEN SENSOR, SENSOR 2)	Detects secondary heated oxygen sensor (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



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