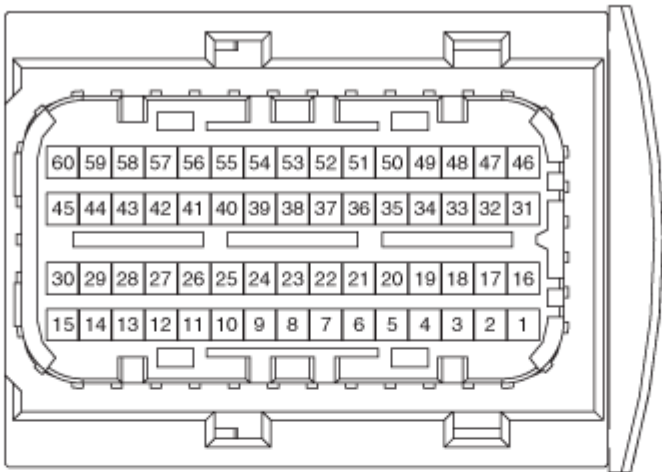
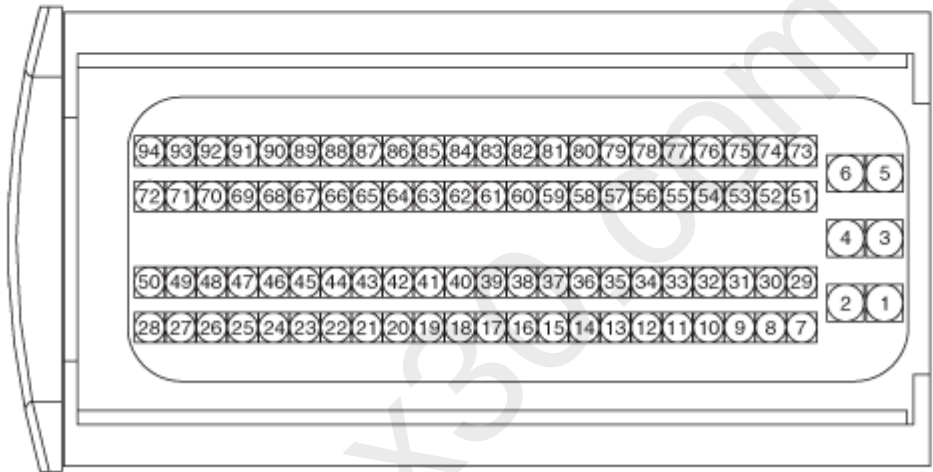


ECM Terminal and Input / Output signal



Connector [A]



Connector [K]

ECM Terminal Function

Connector [A]

Pin No	Description
1	Injector (Cylinder #3) [Low] control output
2	Injector (Cylinder #4) [High] control output
3	Injector (Cylinder #3) [Low] control output
4	-
5	EGR Valve (Motor -)
6	Sensor power (+5V) (TPS)
7	Sensor power (+5V) (EEGR)
8	Knock Sensor (KS) signal input
9	Camshaft Position Sensor (CMPS) [Bank 1 / Exhaust] signal input
10	-
11	Brake Switch [test] signal input
12	Brake Switch [lamp] signal input

13	-
14	-
15	-
16	Injector (Cylinder #3) [High] control output
17	Injector (Cylinder #1) [High] control output
18	Injector (Cylinder #1) [Low] control output
19	-
20	EGR Valve (Motor +)
21	Sensor shield (KS)
22	Sensor ground (KS)
23	-
24	Camshaft Position Sensor (CMPS) [Bank 1 / Exhaust] Sensor ground
25	-
26	Wake up signal input
27	-
28	-
29	-
30	-
31	Injector (Cylinder #2) [High] control output
32	-
33	ETC Motor [-] control output
34	Sensor ground (TPS)
35	Throttle Position Sensor (TPS) 1 signal input
36	Sensor ground (RPS)
37	Rail Pressure Sensor (RPS) signal input
38	-
39	Camshaft Position Sensor (CMPS) [Bank 1 / Intake] signal input
40	-
41	-
42	-
43	VS-/IP- (Common Ground for VS, IP)
44	Rc (Compensative Resistance)
45	Heated Oxygen Sensor [Bank 1 / Sensor 2] Sensor ground
46	Injector (Cylinder #2) [Low] control output
47	-
48	ETC Motor [+] control output
49	-
50	Throttle Position Sensor (TPS) 2 signal input
51	Sensor power (+5V) (RPS)
52	Electrical load signal input (Wiper Motor)
53	Camshaft Position Sensor (CMPS) [Bank 1 / Intake] Sensor ground

54	Sensor ground (EEGR)
55	EGR valve (Feedback signal)
56	-
57	-
58	VS+ (NERNST Cell Voltage)
59	Rc/Rp (Pump Cell Voltage)
60	Heated Oxygen Sensor [Bank 1 / Sensor 2] signal input

Connector [K]

Pin No	Description
1	ECM Ground (Chassis Ground)
2	Battery power (B+) (Main Relay)
3	ECM Ground (Chassis Ground)
4	Battery power (B+) (Main Relay)
5	ECM Ground (Chassis Ground)
6	Battery power (B+) (Main Relay)
7	Fuel Pressure Control Valve [High] control output
8	-
9	-
10	-
11	-
12	Vehicle speed signal input
13	-
14	-
15	Accelerator Position Sensor (APS) 2 signal input
16	Sensor power (+5V) (APS #2)
17	Sensor power (+5V) (MAPS)
18	Sensor power (+5V) (APS #1)
19	Accelerator Position Sensor (APS) signal input
20	Sensor power (+5V) (CKSP, APT)
21	-
22	-
23	-
24	Fuel Pump Relay control output
25	-
26	-
27	-
28	-
29	Fuel Pressure Control Valve [Low] control output
30	A/C Pressure Transducer (APT) signal input
31	-

32	Crankshaft Position Sensor (CKPS) signal input
33	-
34	-
35	-
36	-
37	Sensor ground (APS #2)
38	Manifold Absolute Pressure Sensor (MAPS) signal input
39	Intake Air Temperature Sensor (IATS) signal input
40	Sensor ground (MAPS)
41	Sensor ground (APS #1)
42	-
43	-
44	Mass Air Flow Sensor (MAFS) signal input
45	Sensor ground (MAFS)
46	Engine Control Relay control output
47	Variable Force Solenoid (VFS) [Bank 1 / Intake] control output
48	-
49	-
50	-
51	Battery power (B+) (Ignition Switch)
52	-
53	-
54	Sensor ground (CKPS)
55	P-CAN [High]
56	H-CAN [High]
57	-
58	Immobilizer communication line
59	-
60	Engine Coolant Temperature Sensor (ECTS) signal input [Water Temperature Control Assembly]
61	Sensor ground (ECTS)
62	Fuel Level Sender (FLS) signal input
63	-
64	Ignition Coil (Cylinder #3) control output [With Smart key]
	Ignition Coil (Cylinder #2) control output [Without Smart key]
65	Ignition Coil (Cylinder #2) control output [With Smart key]
	Ignition Coil (Cylinder #3) control output [Without Smart key]
66	-
67	-
68	Cooling Fan Relay control output
69	-
70	CVVT Oil Control (OCV) Valve [Bank 1/Exhaust] control output

71	-
72	-
73	Battery power (B+) (Battery)
74	-
75	Sensor ground (APT)
76	-
77	P-CAN [Low]
78	H-CAN [Low]
79	-
80	-
81	-
82	-
83	-
84	-
85	-
86	Ignition Coil (Cylinder #1) control output [With Smart key]
	Ignition Coil (Cylinder #4) control output [Without Smart key]
87	Ignition Coil (Cylinder #4) control output [With Smart key]
	Ignition Coil (Cylinder #1) control output [Without Smart key]
88	-
89	-
90	-
91	Heated Oxygen Sensor (HO2S) [Bank 1 / Sensor1] Heater control output
92	Heated Oxygen Sensor (HO2S) [Bank 1 / Sensor2] Heater control output
93	Purge Control Solenoid Valve (PCSV) control output
94	-

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