

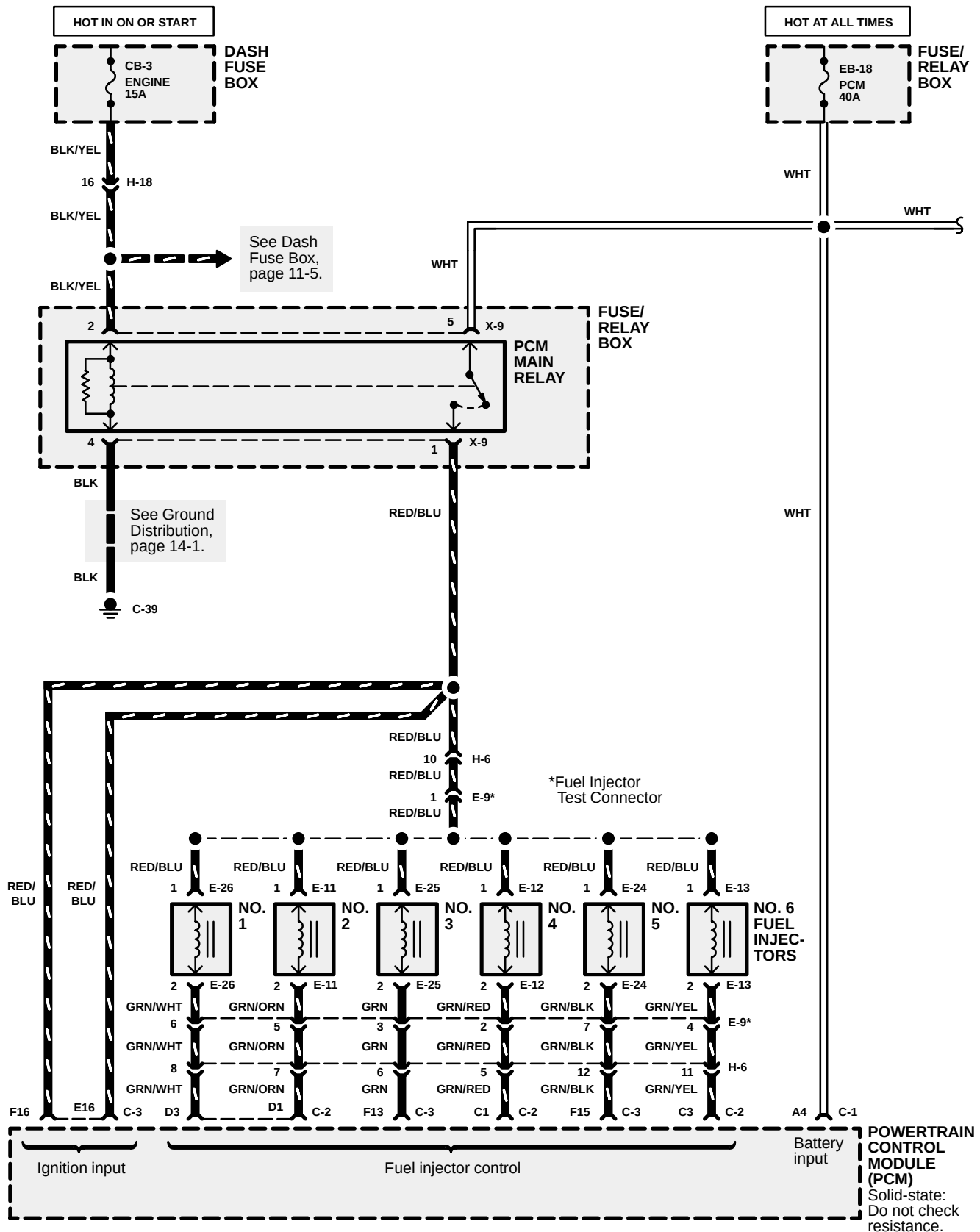
ENGINE CONTROLS

Component Index

Camshaft Position (CMP) Sensor	Idle Air Control (IAC) Valve
Crankshaft Position (CKP) Sensor	Intake Air Temperature (IAT) Sensor
Dash Fuse Box	Intake Air Vacuum Switching Valve
Data Link Connector (DLC) C-63	Knock Sensor (KS)
Engine Coolant Temperature (ECT) Sensor	Manifold Absolute Pressure (MAP) Sensor
Evaporative Emission (EVAP) Canister Cut Valve	Mass Air Flow (MAF) Sensor
Evaporative Emission (EVAP) Canister Purge Valve	No. 1 Fuel Injector
Exhaust Gas Recirculation (EGR) Solenoid Valve	No. 2 Fuel Injector
Fuel Pump Relay	No. 3 Fuel Injector
Fuel Vapor Pressure Sensor	No. 4 Fuel Injector
Fuse/Relay Box	No. 5 Fuel Injector
Heated Oxygen Sensor (HO2S) (B1S1)	No. 6 Fuel Injector
Heated Oxygen Sensor (HO2S) (B2S1)	PCM Main Relay
Heated Oxygen Sensor (HO2S) (B1S2)	Power Steering Pressure (PSP) Switch
Heated Oxygen Sensor (HO2S) (B2S2)	Powertrain Control Module (PCM)
	Throttle Position (TP) Sensor

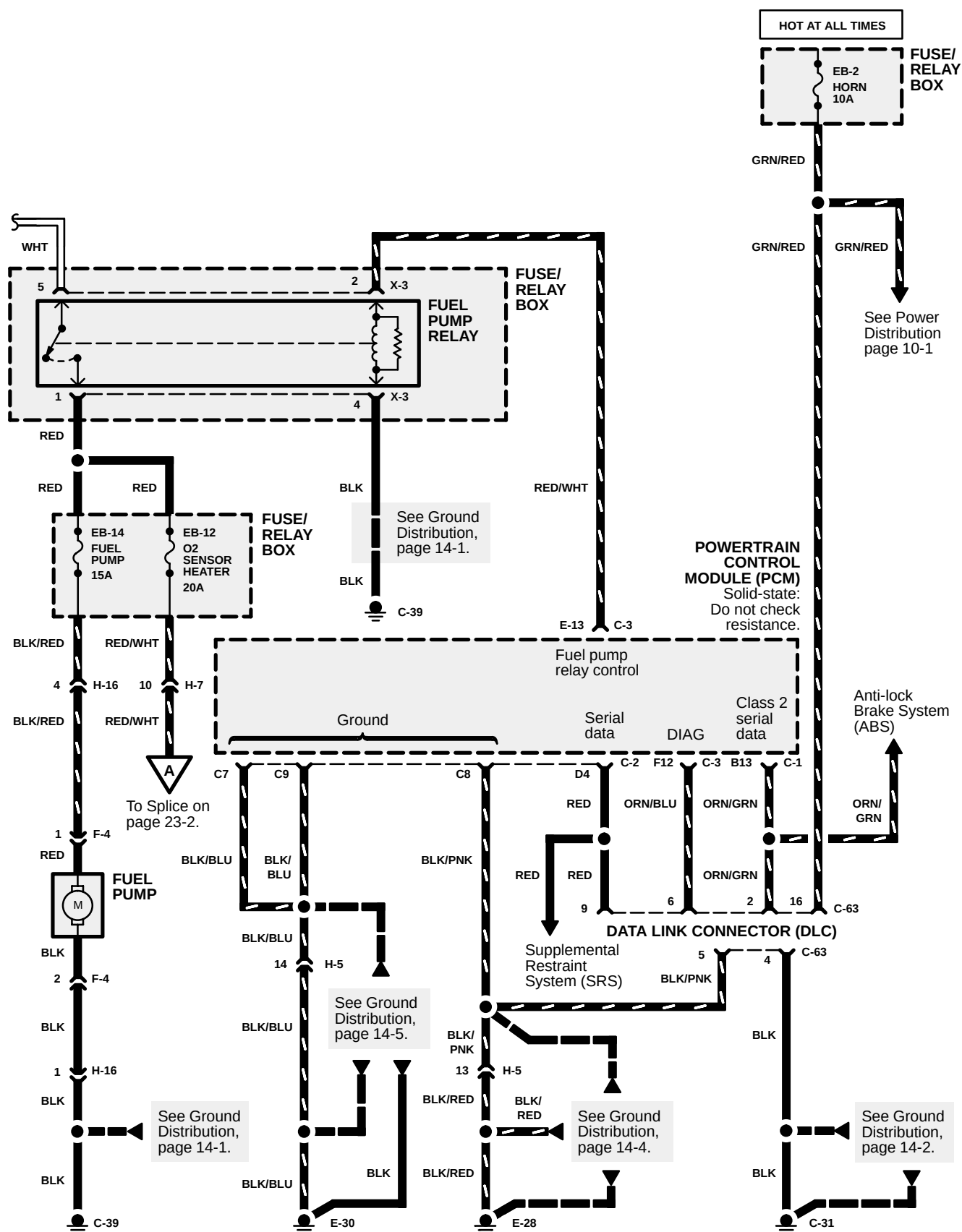
ENGINE CONTROLS

Circuit Schematic



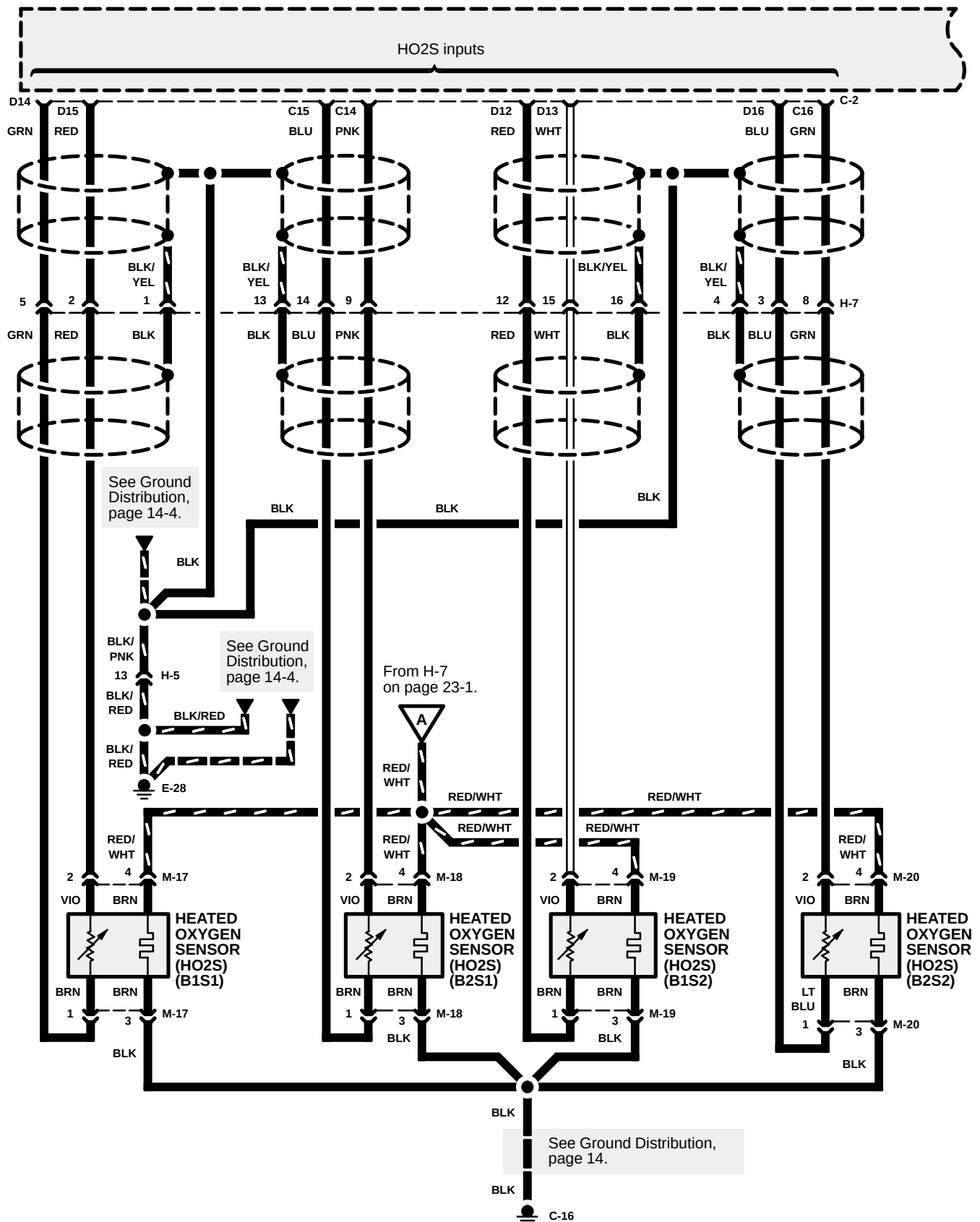
ENGINE CONTROLS

Circuit Schematic



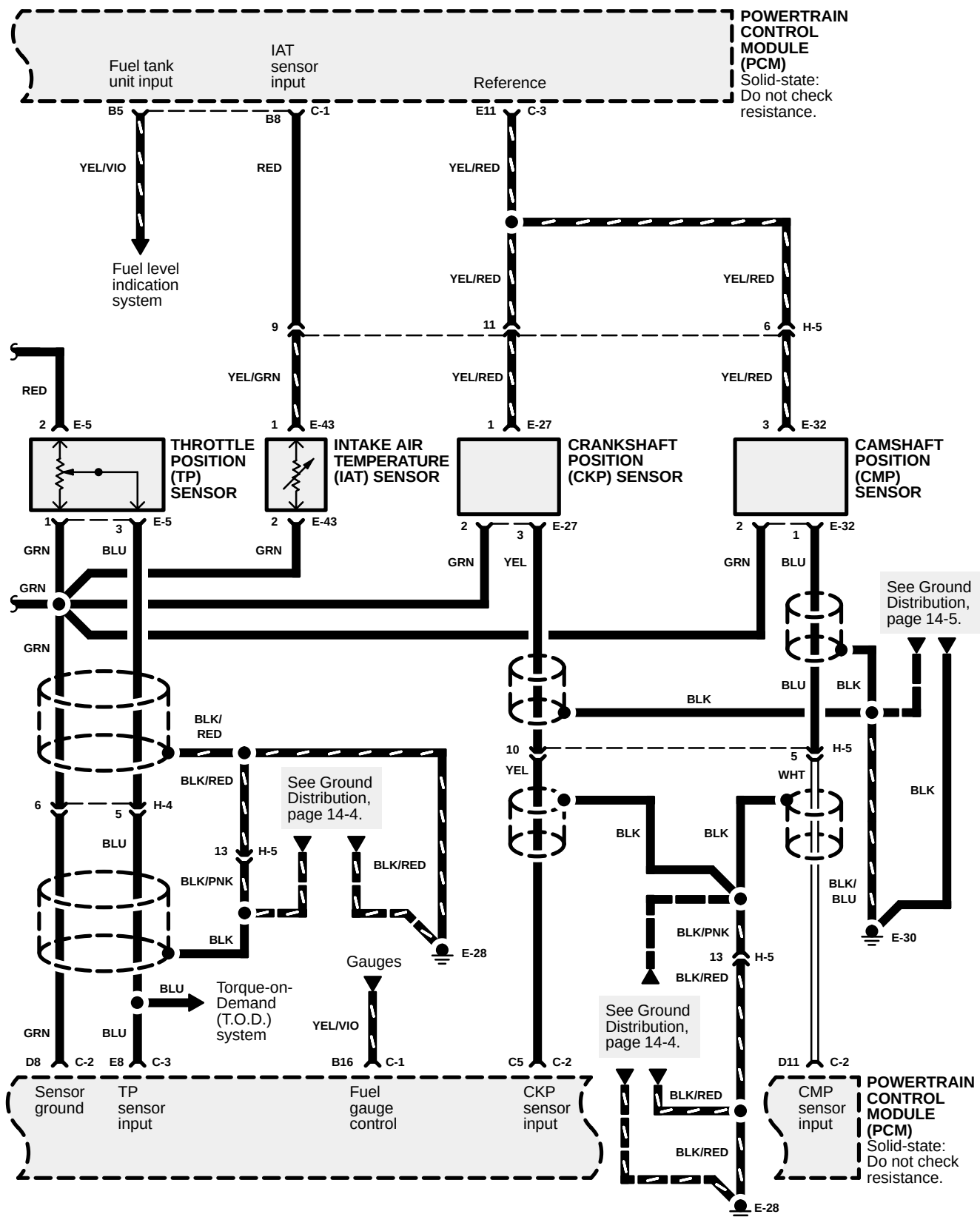
ENGINE CONTROLS

Circuit Schematic



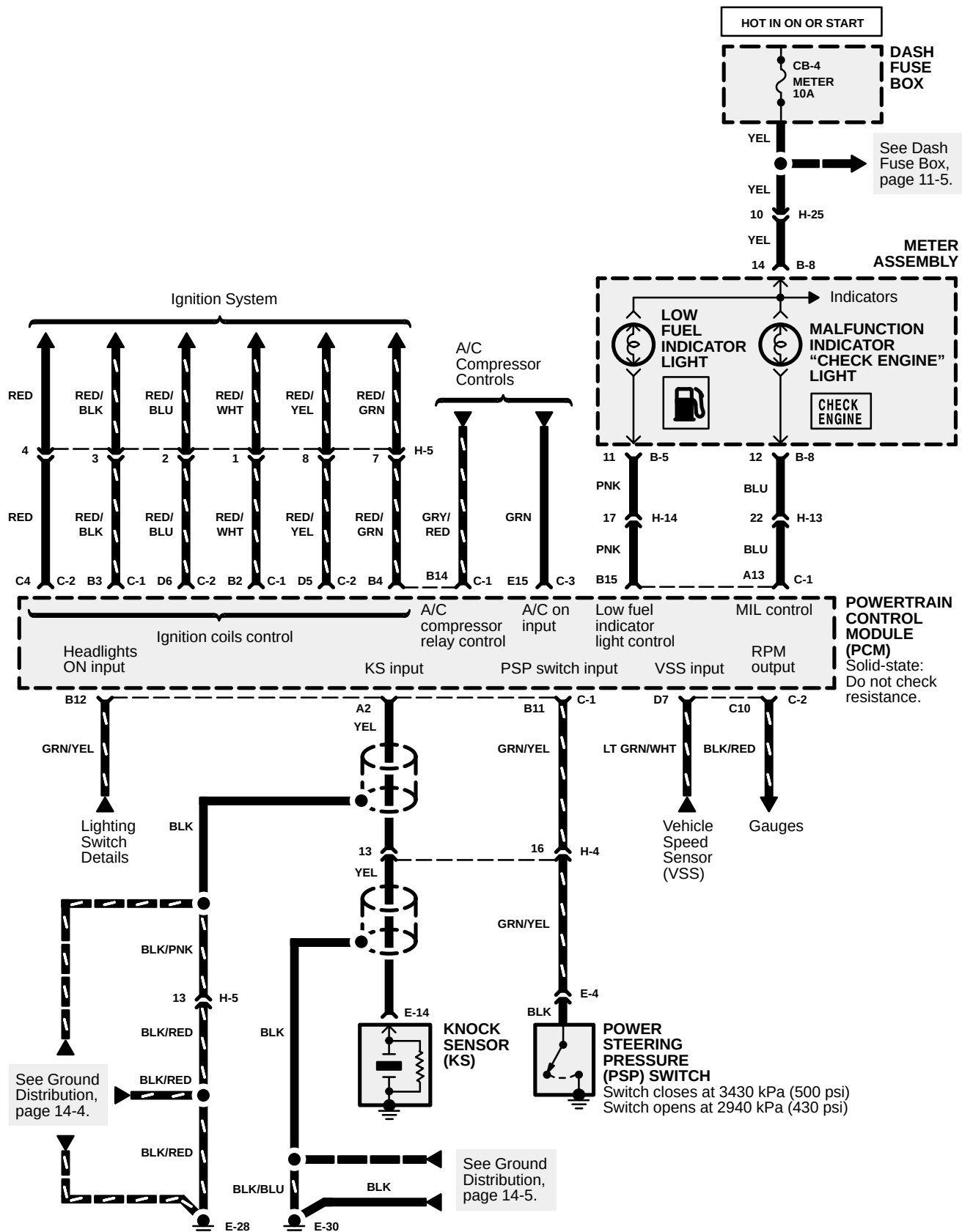
ENGINE CONTROLS

Circuit Schematic



ENGINE CONTROLS

Circuit Schematic



ENGINE CONTROLS

Component Location Index

(Refer to Section 201 for photographs.)

<u>Component</u>	<u>Photo No.</u>
Camshaft Position (CMP)	
Sensor	On top left rear of engine 33
Crankshaft Position (CKP)	
Sensor	Lower right side of engine, above oil pan 93
Dash Fuse Box	Behind left I/P side trim panel 36
Data Link Connector (DLC)	
C-63	Below left side of I/P, near engine hood release 38
Engine Coolant Temperature	
(ECT) Sensor	Top front of engine 29
Evaporative Emission (EVAP)	
Canister Cut Valve	Underneath vehicle, above right side of rear axle 87
Evaporative Emission (EVAP)	
Canister Purge Valve	Top left front of engine 26
Exhaust Gas Recirculation	
(EGR) Solenoid Valve	Top right rear of engine 32
Fuel Pump Relay	Right side of engine compartment, in fuse/relay box 19
Fuel Vapor Pressure Sensor	On top of fuel tank
Fuse/Relay Box	Right side of engine compartment, on inner fender panel 18
Heated Oxygen Sensor	
(HO2S) (B1S1)	In right exhaust down pipe 80
Heated Oxygen Sensor	
(HO2S) (B2S1)	In left exhaust down pipe 77
Heated Oxygen Sensor	
(HO2S) (B1S2)	In rear of right catalytic converter 81
Heated Oxygen Sensor	
(HO2S) (B2S2)	In rear of left catalytic converter 79
Idle Air Control (IAC) Valve	Top front of engine, on air intake assembly 25
Intake Air Temperature (IAT)	
Sensor	Top front of engine, in air intake hose 25
Intake Air Vacuum Switching	
Valve	On left rear of engine 28
Knock Sensor (KS)	On top of engine, below common chamber 34
Manifold Absolute Pressure	
(MAP) Sensor	On top rear of engine 32
Mass Air Flow (MAF)	
Sensor	Left front corner of engine compartment 12
No. 1 Fuel Injector	Right side of engine 30
No. 2 Fuel Injector	Left side of engine 28
No. 3 Fuel Injector	Right side of engine 30
No. 4 Fuel Injector	Left side of engine 28
No. 5 Fuel Injector	Right side of engine 30
No. 6 Fuel Injector	Left side of engine 28
PCM Main Relay	Right side of engine compartment, in fuse/relay box 21
Power Steering Pressure	
(PSP) Switch	Lower left front of engine compartment
Powertrain Control Module	
(PCM)	Behind front console 52
Throttle Position (TP) Sensor	Top front of engine, on air intake assembly 25

ENGINE CONTROLS

Component Location Index

(Refer to Section 201 for photographs.)

Connector		Photo No.
B-5 (16-WHT)	Behind left side of I/P, on rear of meter assembly	49
B-8 (16-BLK)	Behind left side of I/P, on rear of meter assembly	49
E-4 (1-GRY)	Lower left side of engine compartment	14
E-9 (7-WHT)	On left front of engine, taped to harness	27
F-4 (2-BLK)	Beneath rear of vehicle, right of fuel tank	89
H-4 (16-BLU)	Left rear of engine compartment on bracket	15
H-5 (16-GRN)	Left rear of engine compartment on bracket	15
H-6 (16-BLK)	Left rear of engine compartment on bracket	15
H-7 (16-BLK)	Lower left front of engine compartment	13
H-13 (22-WHT)	Behind left side of I/P, above left kick panel on bracket	42
H-14 (22-BLU)	Behind left side of I/P, above left kick panel on bracket	42
H-16 (20-WHT)	In floor, below right front seat	66
H-18 (20-WHT)	Behind I/P right side panel	58
M-17 (4-BLK)	Right front side of transmission	80
M-18 (4-BLK)	Left front side of transmission	77
M-19 (4-BLK)	Right rear side of transmission	81
M-20 (4-BLK)	Left rear side of transmission	79
Ground		
C-16	Left rear of engine compartment, on inner fender panel	16
C-31	Behind right kick panel	57
C-39	Right rear of engine compartment on inner fender	23
E-28	Top left rear of engine	28
E-30	Top right rear of engine	32

Circuit Operation

The Powertrain Control Module (PCM) receives inputs from the engine sensors and switches, controlling the functions of the engine. The PCM also turns on the "CHECK ENGINE" malfunction indicator lamp whenever a malfunction or abnormal engine performance is detected, and allows for diagnostic testing through the data link connector (DLC).

Refer to Section 6 of Workshop Manual for further engine diagnosis.