

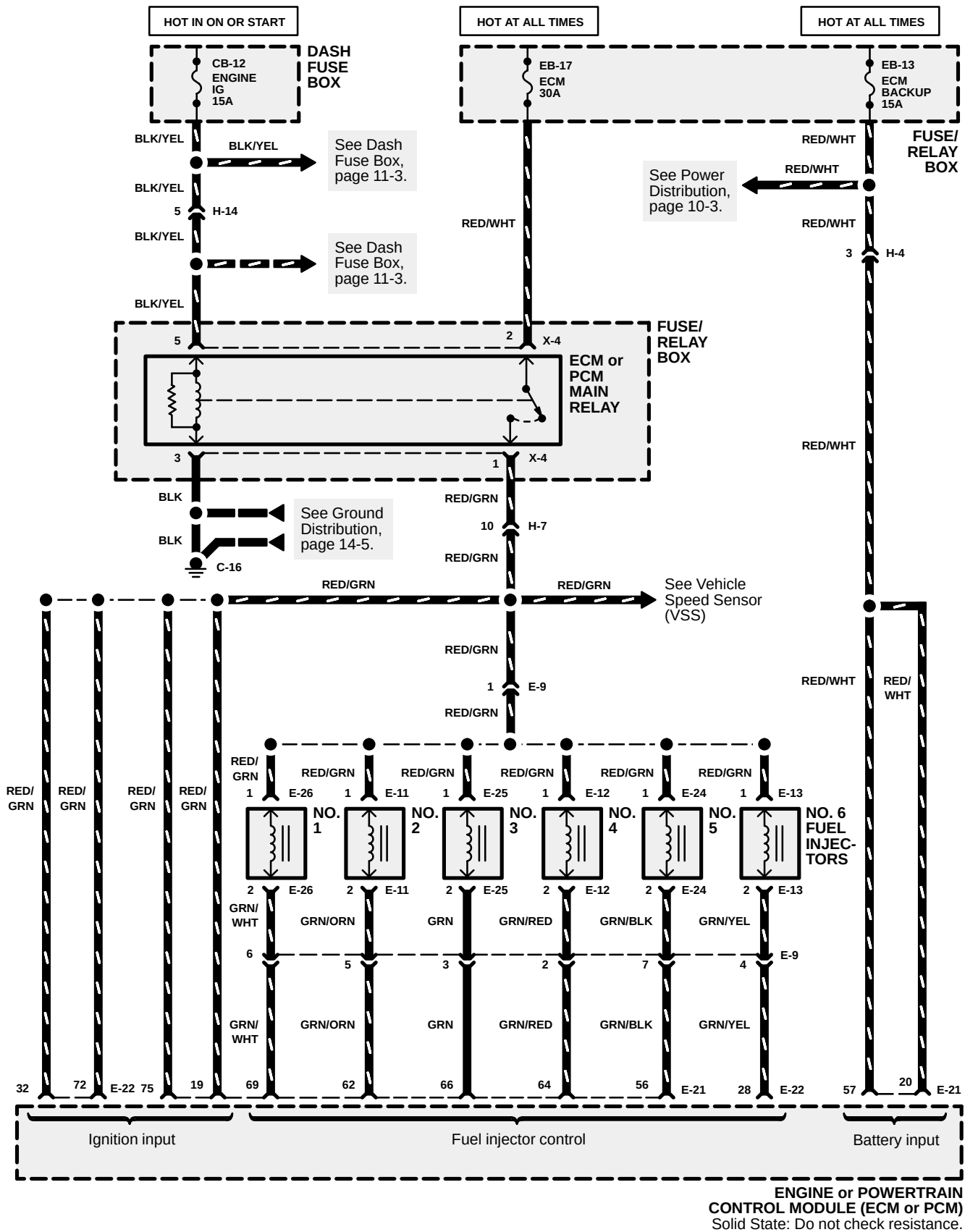
ENGINE CONTROLS: 3.2L

Component Index

Acceleration Position Sensor Assembly	Heated Oxygen Sensor (Bank 2, Sensor 1)
Clutch Switch	Heated Oxygen Sensor (Bank 1, Sensor 2)
Crankshaft Position (CKP) Sensor	Heated Oxygen Sensor (Bank 2, Sensor 2)
Dash Fuse Box	Intake Air Temperature (IAT) Sensor
Data Link Connector (DLC) C-34	Manifold Absolute Pressure (MAP) Sensor
ECM/PCM Main Relay	Mass Air Flow (MAF) Sensor
Engine Coolant Temperature (ECT) Sensor	No. 1 Fuel Injector
Engine or Powertrain Control Module (ECM or PCM)	No. 2 Fuel Injector
Evaporative Emission (EVAP) Canister Cut Valve	No. 3 Fuel Injector
Evaporative Emission (EVAP) Canister Purge Valve	No. 4 Fuel Injector
Exhaust Gas Recirculation (EGR) Solenoid Valve	No. 5 Fuel Injector
Fuel Pump Relay	No. 6 Fuel Injector
Fuel Tank Unit	Power Steering Pressure (PSP) Switch
Fuel Vapor Pressure Sensor	Taillight Relay
Fuse/Relay Box	Throttle Valve Assembly
Heated Oxygen Sensor (Bank 1, Sensor 1)	Variable Intake Manifold Vacuum Switching Valve

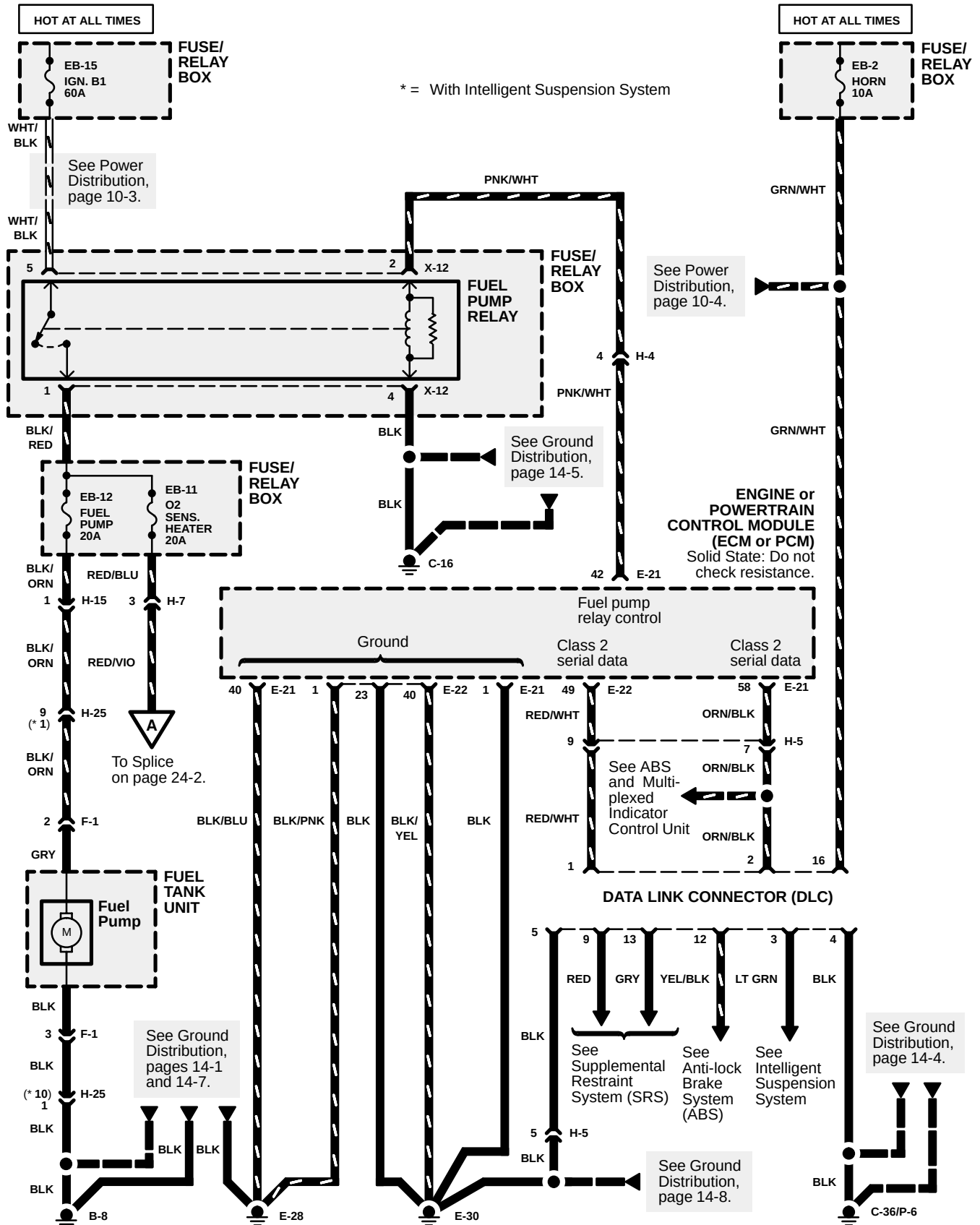
ENGINE CONTROLS: 3.2L

Circuit Schematic



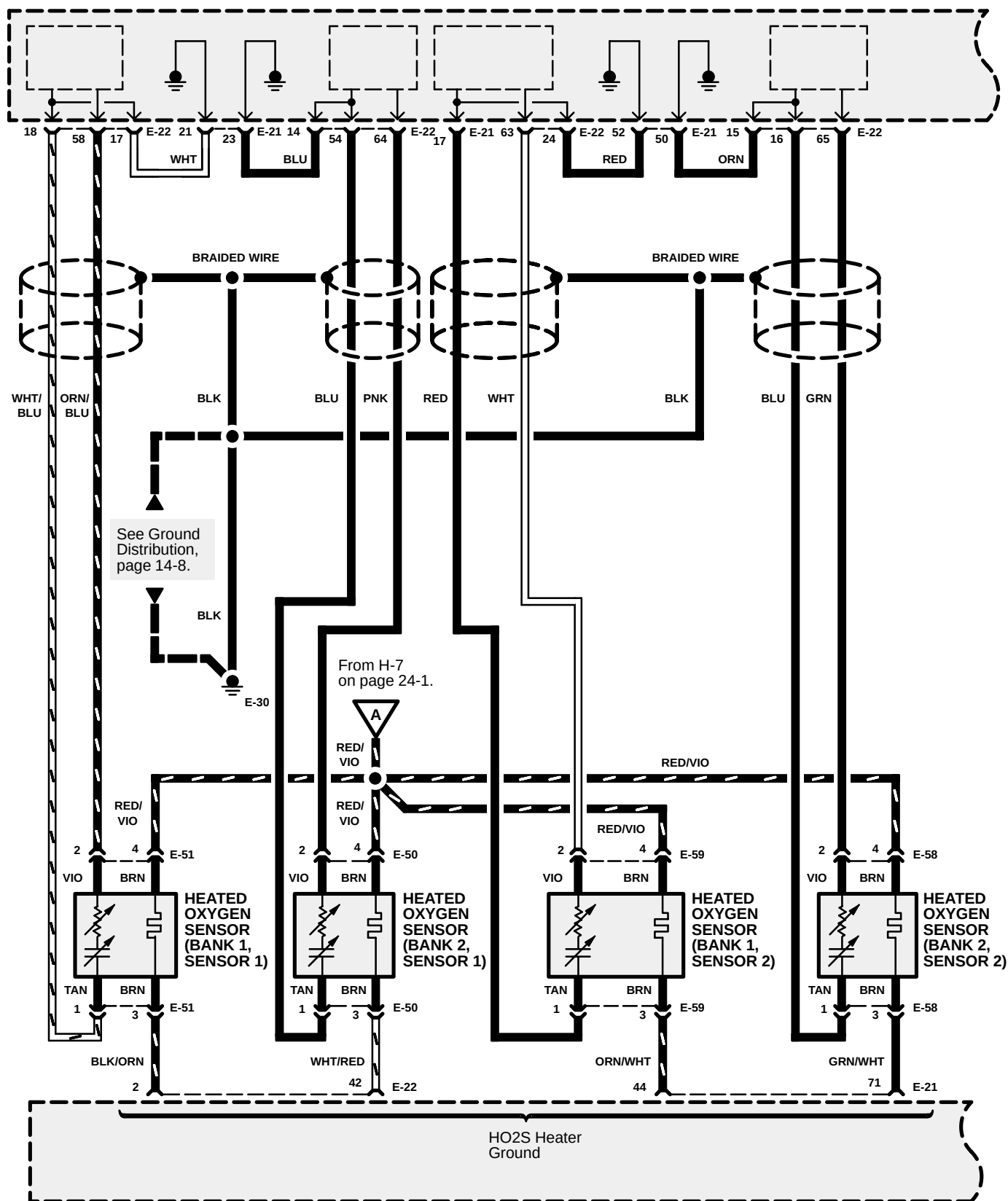
ENGINE CONTROLS: 3.2L

Circuit Schematic



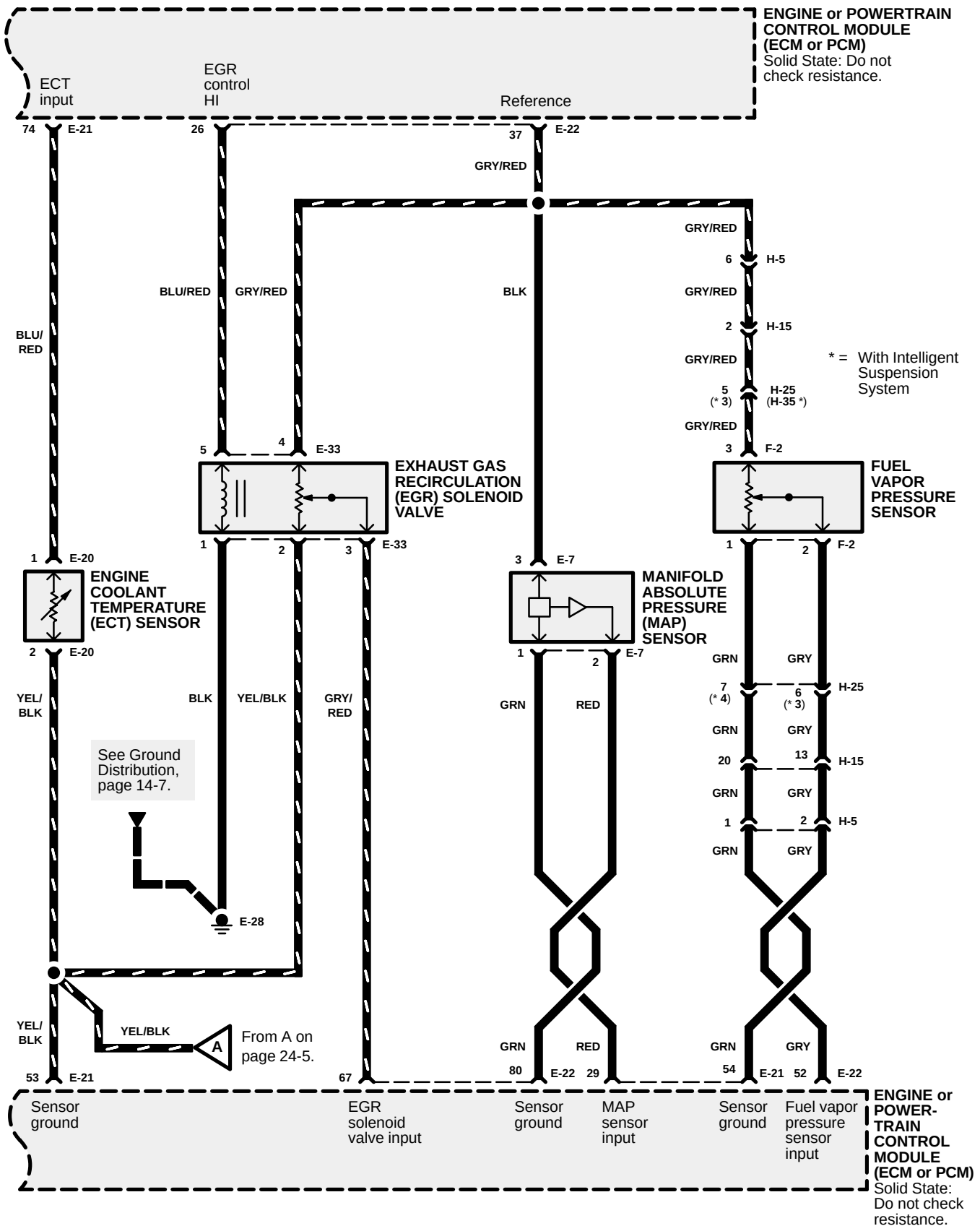
ENGINE CONTROLS: 3.2L

Circuit Schematic



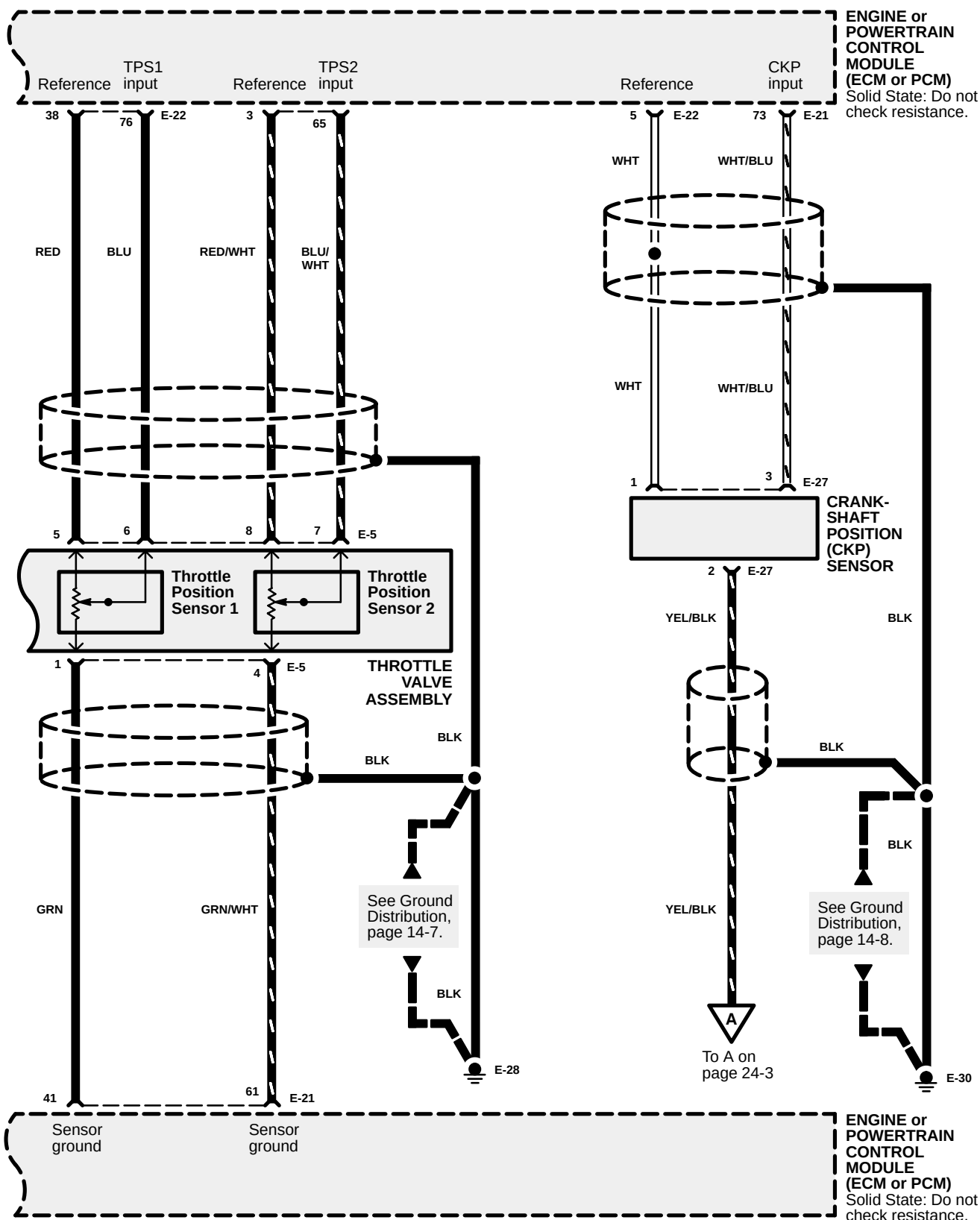
ENGINE CONTROLS: 3.2L

Circuit Schematic



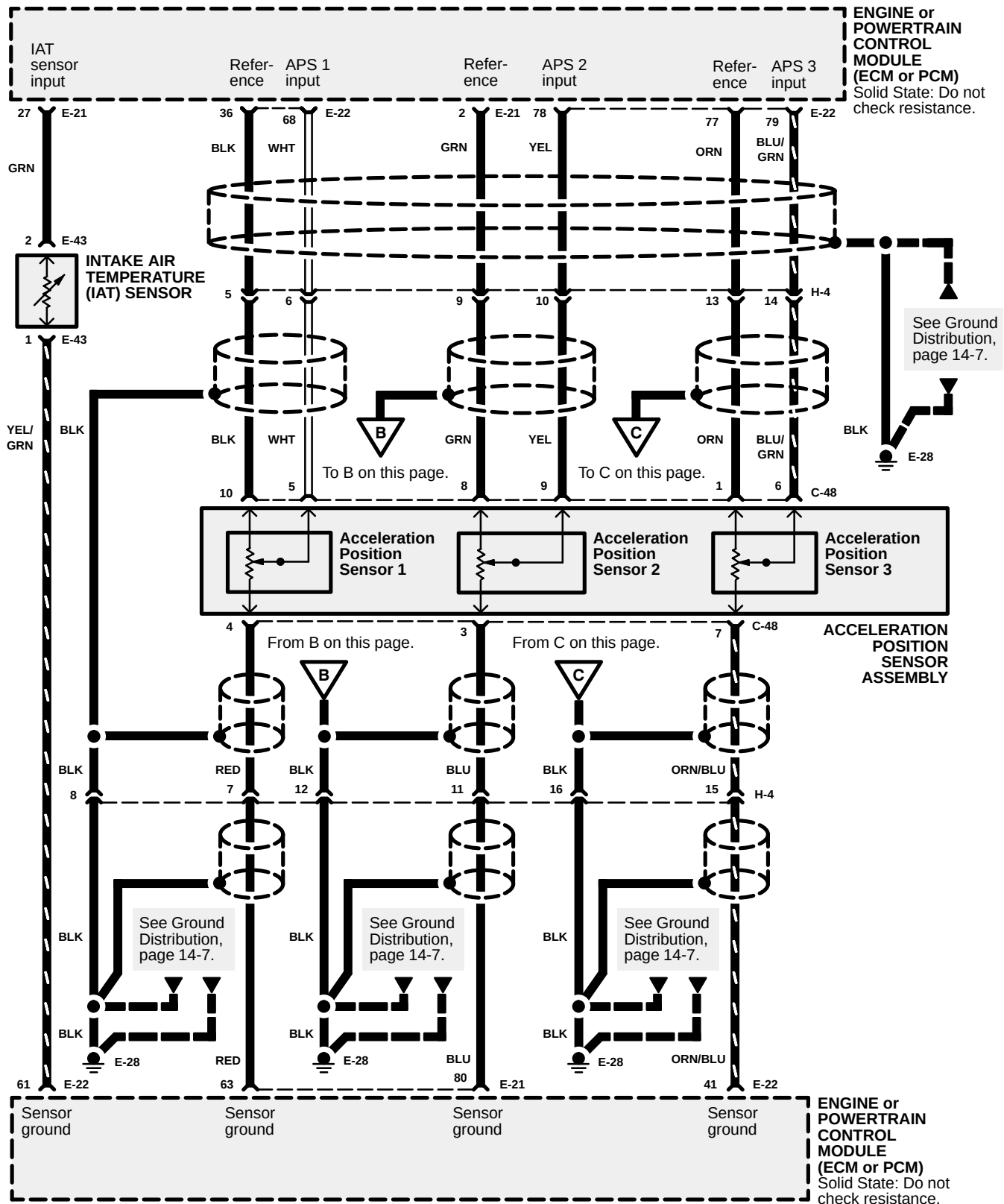
ENGINE CONTROLS: 3.2L

Circuit Schematic



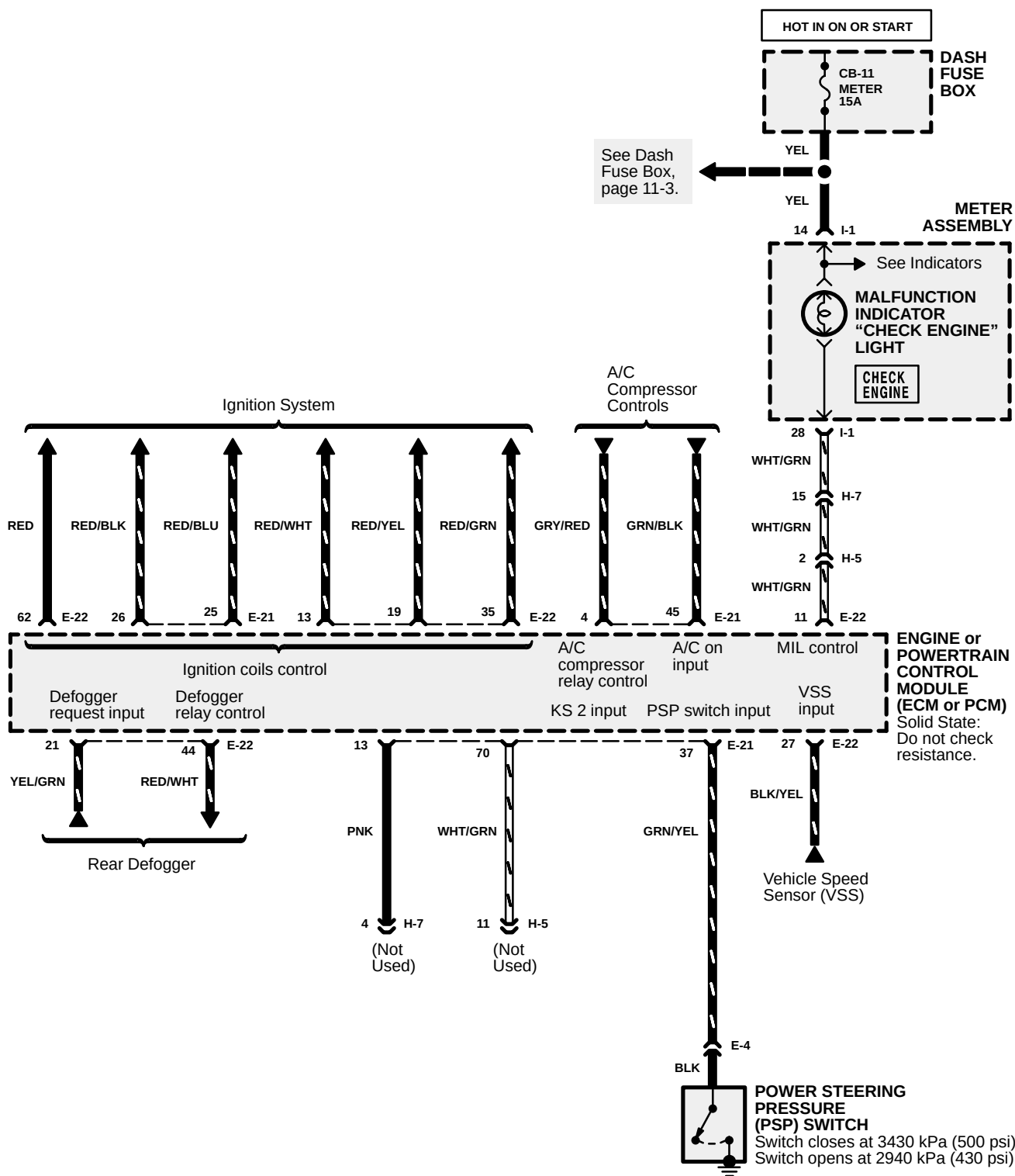
ENGINE CONTROLS: 3.2L

Circuit Schematic



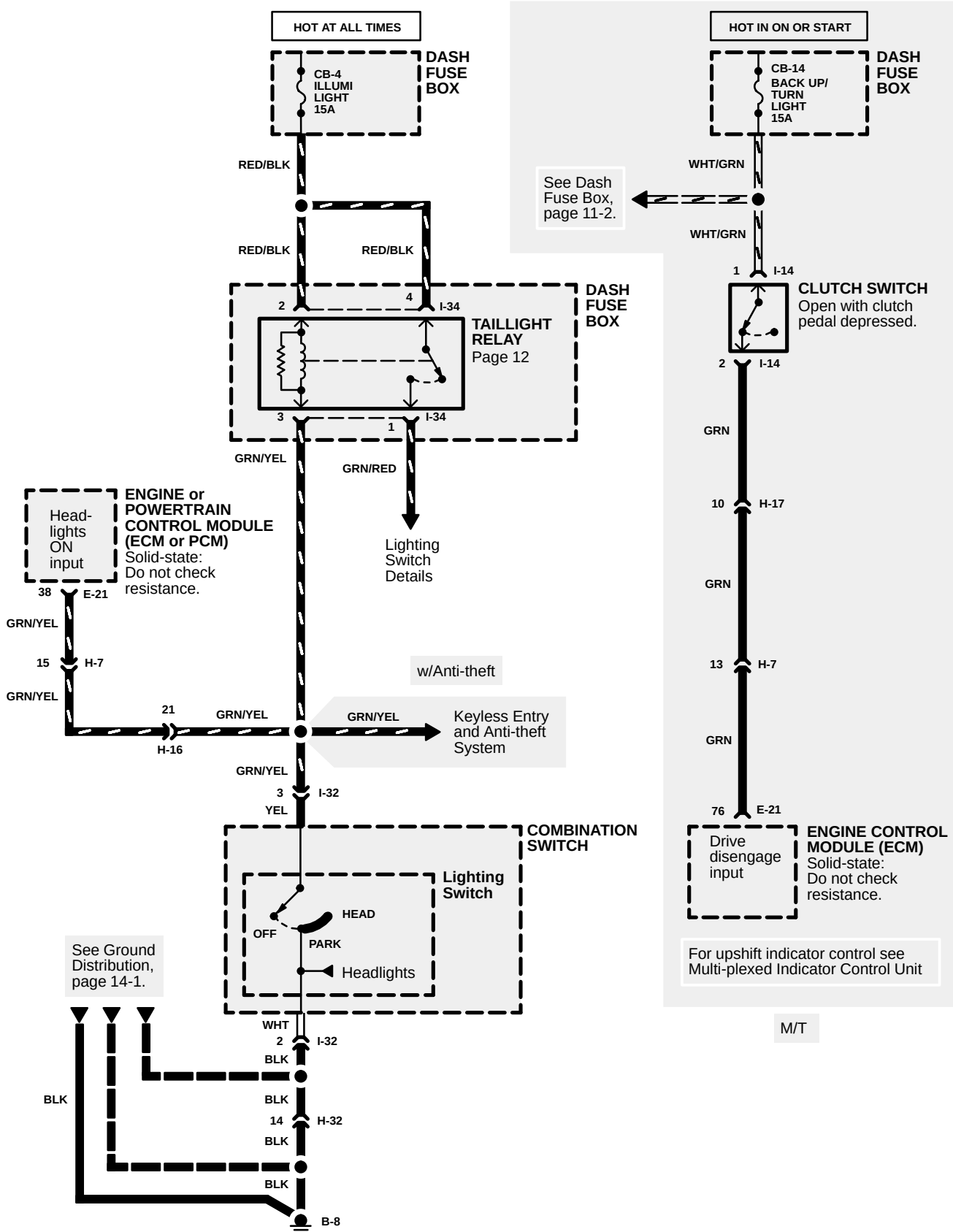
ENGINE CONTROLS: 3.2L

Circuit Schematic



ENGINE CONTROLS: 3.2L

Circuit Schematic



ENGINE CONTROLS: 3.2L

Component Location Index

(Refer to Section 201 for photographs.)

Component	Photo No.
Acceleration Position	
Sensor Assembly	Part of accelerator pedal 129
Clutch Switch	Behind left side of I/P, on clutch pedal support 65
Crankshaft Position (CKP)	
Sensor	Lower right side of engine 56
Dash Fuse Box	Left side of I/P, behind panel 58
Data Link Connector (DLC)	
C-34 (16-BLK)	Below left side of I/P, near engine hood release 61
ECM/PCM Main Relay	Right side of engine compartment, in fuse/relay box 16
Engine Coolant Temperature	
(ECT) Sensor	Front of engine, in engine coolant manifold 49
Engine or Powertrain Control	
Module (ECM or PCM)	Left side of engine compartment 44
Evaporative Emission (EVAP)	
Canister Cut Valve	Underneath vehicle, above rear axle 116
Evaporative Emission (EVAP)	
Canister Purge Valve	Top front of engine 46
Exhaust Gas Recirculation	
(EGR) Solenoid Valve	Top right rear of engine 21
Fuel Pump Relay	Right side of engine compartment, in fuse/relay box 15
Fuel Tank Unit	Beneath vehicle, in top of fuel tank
Fuel Vapor Pressure Sensor . .	Top of fuel tank
Fuse/Relay Box	Right side of engine compartment, on inner fender panel 14
Heated Oxygen Sensor	
(Bank 1, Sensor 1)	On right exhaust down pipe 100
Heated Oxygen Sensor	
(Bank 2, Sensor 1)	On left exhaust down pipe 98
Heated Oxygen Sensor	
(Bank 1, Sensor 2)	Underneath vehicle, rear of right catalytic converter 101
Heated Oxygen Sensor	
(Bank 2, Sensor 2)	Underneath vehicle, rear of left catalytic converter 99
Intake Air Temperature	
(IAT) Sensor	Top left of engine, on air flow assembly 47
Manifold Absolute Pressure	
(MAP) Sensor	Top rear of engine, on intake manifold 50
Mass Air Flow (MAF) Sensor .	Left front of engine compartment, on air flow assembly 48
No. 1 Fuel Injector	Top of cylinder 22
No. 2 Fuel Injector	Top of cylinder 53
No. 3 Fuel Injector	Top of cylinder 22
No. 4 Fuel Injector	Top of cylinder 53
No. 5 Fuel Injector	Top of cylinder 22
No. 6 Fuel Injector	Top of cylinder 53
Power Steering Pressure	
(PSP) Switch	Lower left front corner of engine compartment 7
Taillight Relay	Left side of I/P, in dash fuse box 60
Throttle Valve Assembly	Top front of engine, on intake assembly 46
Variable Intake Manifold	
Vacuum Switching Valve . . .	Left rear of engine 54

ENGINE CONTROLS: 3.2L

Component Location Index

(Refer to Section 201 for photographs.)

Connector

E-4 (1-GRY)	Left side of engine compartment	6
E-9 (7-GRY)	Left side of engine, fastened to harness	47
E-50 (4-BLK)	Left front side of transmission	98
E-51 (4-BLK)	Right front side of transmission	100
E-58 (4-BLK)	Left rear side of transmission	99
E-59 (4-BLK)	Right rear side of transmission	101
F-1 (4-BLK)	Under vehicle, on top of gas tank	
H-4 (16-BLK)	Left side of engine compartment	27
H-5 (16-GRN)	Left side of engine compartment	27
H-7 (16-WHT)	Left side of engine compartment	27
H-14 (19-BLK)	Below right side of I/P, behind kick panel	82
H-15 (20-BLU)	Behind left kick panel	63
H-16 (22-BLK)	Behind left kick panel	62
H-17 (19-BLK)	Behind left kick panel	62
H-18 (22-WHT)	Behind right kick panel	80
H-25 (10-WHT)		
(with Intelligent Suspension System)	Under driver's seat, below carpet	72
H-25 (13-WHT)		
(without Intelligent Suspension System)	Under driver's seat, below carpet	72
H-32 (16-WHT)	Behind left kick panel	62
I-1 (30-GRN)	Behind left side of I/P, on top of meter assembly	86
I-32 (13-BLK)	Behind left side of I/P, on connector bracket	66

Ground

B-8	Below center console	81
C-16	Left rear corner of engine compartment, on inner fender panel	43
C-36	Right side of engine compartment, behind battery	13
E-28	Left side of intake manifold	54
E-29	Left side of intake manifold	54
E-30	Right side of intake manifold	21
P-6	Right side of engine compartment, behind battery	13

Circuit Operation

The engine or powertrain control module (ECM or PCM) receives inputs from the engine sensors and switches, controlling the functions of the engine. It also turns on the malfunction indicator "check engine" light 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 the Workshop Manual for further engine diagnosis.