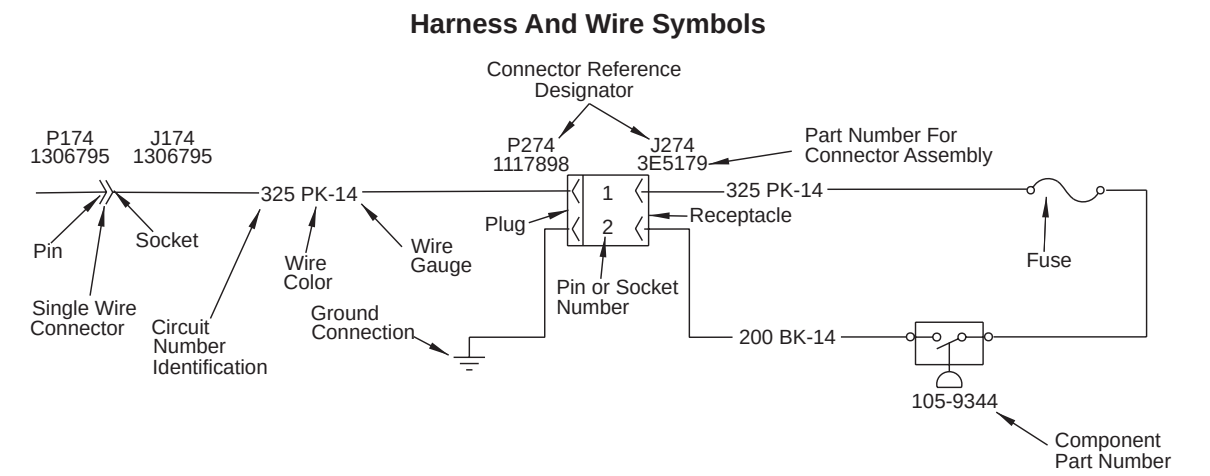


Diagnostic Code Listing					
PID-FMI	Description	Flash Codes	PID-FMI	Description	Flash Codes
0-00	No Detected Faults	55	105-11	Very High Intake Manifold Temp Warning	64
1-11	Cylinder 1 Fault	72	108-03	Atmospheric Pressure Sensor Open Circuit	26
2-11	Cylinder 2 Fault	72	108-04	Atmospheric Pressure Sensor Short Circuit	26
3-11	Cylinder 3 Fault	73	110-00	High Coolant Temp Warning	61
4-11	Cylinder 4 Fault	73	110-03	Coolant Temp Sensor Open Circuit	27
5-11	Cylinder 5 Fault	74	110-04	Coolant Temp Sensor Short Circuit	27
6-11	Cylinder 6 Fault	74	110-11	Very High Coolant Temp Warning	61
22-11	Cam Sensor to Crank Sensor Calibration	42	111-01	Low Coolant Level Warning	62
22-13	Check Timing Sensor Calibration	42	111-02	Coolant Level Sensor Fault	12
30-08	Invalid PTO Throttle Signal	29	111-03	Coolant Level Voltage High	12
30-12	PTO Throttle Sensor Calibration	29	111-04	Coolant Level Voltage Low	12
41-03	8 Volt Supply Above Normal	21	111-11	Very Low Coolant Level	62
41-04	8 Volt Supply Below Normal	21	121-05	Retarder Solenoid Lo/Hi Open Circuit	14
43-02	Ignition Key Switch Fault	71	121-06	Retarder Solenoid Lo/Hi Short Circuit	14
52-11	Air Inlet Shutoff Shutdown	00	122-05	Retarder Solenoid Med/Hi Open Circuit	14
54-05	Multi-Function Output #6 Open Circuit	66	122-06	Retarder Solenoid Med/Hi Short Circuit	14
54-06	Multi-Function Output #6 Short Circuit	66	168-01	Low ECM Battery Power	17
55-05	Multi-Function Output #7 Open Circuit	67	168-02	Low or Intermittent Battery Power to ECM	51
55-06	Multi-Function Output #7 Short Circuit	67	171-03	Outside Air Temp Sensor Open Circuit	00
64-12	Loss of Engine Cam Sensor RPM Signal	34	171-04	Outside Air Temp Sensor Short Circuit	00
71-00	Idle Shutdown Override	01	171-11	No Ambient Air Temp Data	00
71-01	Idle Shutdown Occurrence	47	174-00	High Fuel Temp Warning	65
71-14	PTO Shutdown Occurrence	47	174-03	Fuel Temp Sensor Open Circuit	13
84-00	Vehicle Overspeed Warning	41	174-04	Fuel Temp Sensor Short Circuit	13
84-01	Loss of Vehicle Speed Signal	31	190-00	Engine Overspeed Warning	35
84-02	Invalid Vehicle Speed Signal	36	190-12	Loss of Engine Crank Sensor RPM Signal	34
84-08	Vehicle Speed Out of Range	36	191-07	Transmission Not Responding	68
84-10	Vehicle Speed Rate of Change	36	224-11	Theft Deterrent Enabled	00
84-14	Quick Stop Occurrence	00	224-14	Emergency Cranking With Theft Deterrent Enabled	00
91-08	Invalid Throttle Signal	32	231-02	J1939 Required Data Not Received	58
91-13	Throttle Sensor Calibration	28	231-11	J1939 Data Link Fault	58
100-01	Low Oil Pressure Warning	46	231-12	J1939 Device Not Responding	58
100-03	Oil Pressure Sensor Open Circuit	24	232-03	5 Volt Supply Above Normal	21
100-04	Oil Pressure Sensor Short Circuit	24	232-04	5 Volt Supply Below Normal	21
100-11	Very Low Oil Pressure	46	245-11	Brake Switch #1 Fault	00
102-00	Boost Pressure Sensor Stuck High	25	247-11	Brake Switch #2 Fault	00
102-03	Boost Pressure Sensor Open Circuit	25	249-11	J1922 Data Link Fault	58
102-04	Boost Pressure Sensor Short Circuit	25	252-11	Incorrect Engine Software	69
105-00	High Inlet Air Temp Warning	64	253-02	Check Customer or System Parameters	56
105-03	Inlet Air Temp Sensor Open Circuit	38	253-11	Check Transmission Customer Parameters	56
105-04	Inlet Air Temp Sensor Short Circuit	38			



Related Electrical Service Manuals	
Title	Form Number
Troubleshooting (ALL)	REN2238
Systems Operation / Testing and Adjusting(C-10/C-12)	REN2235
Systems Operation / Testing and Adjusting(C-15/C-16)	REN2307
Systems Operation / Testing and Adjusting(3406E)	SENR5017

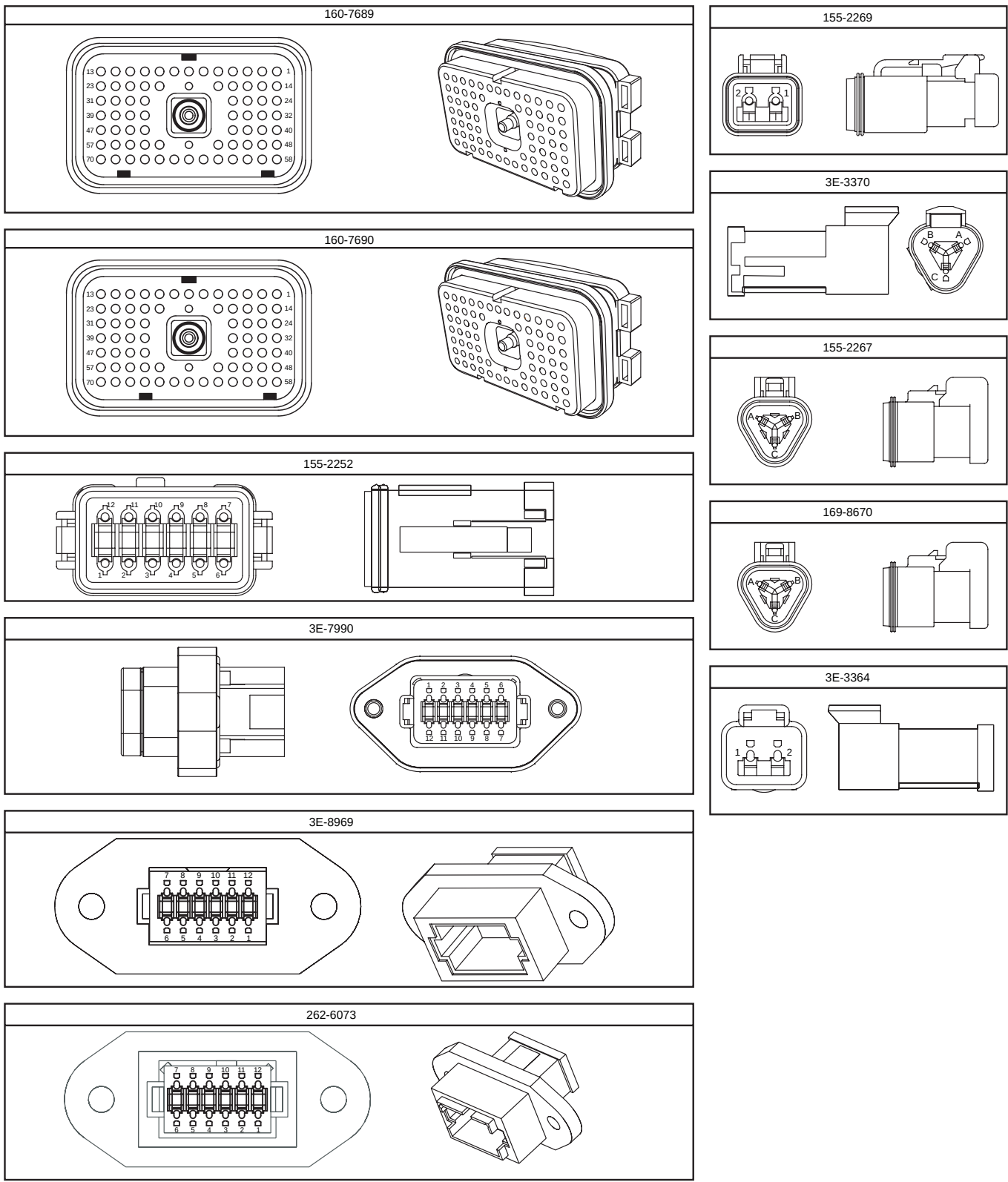


REN2237-07
January 2007

Schematic

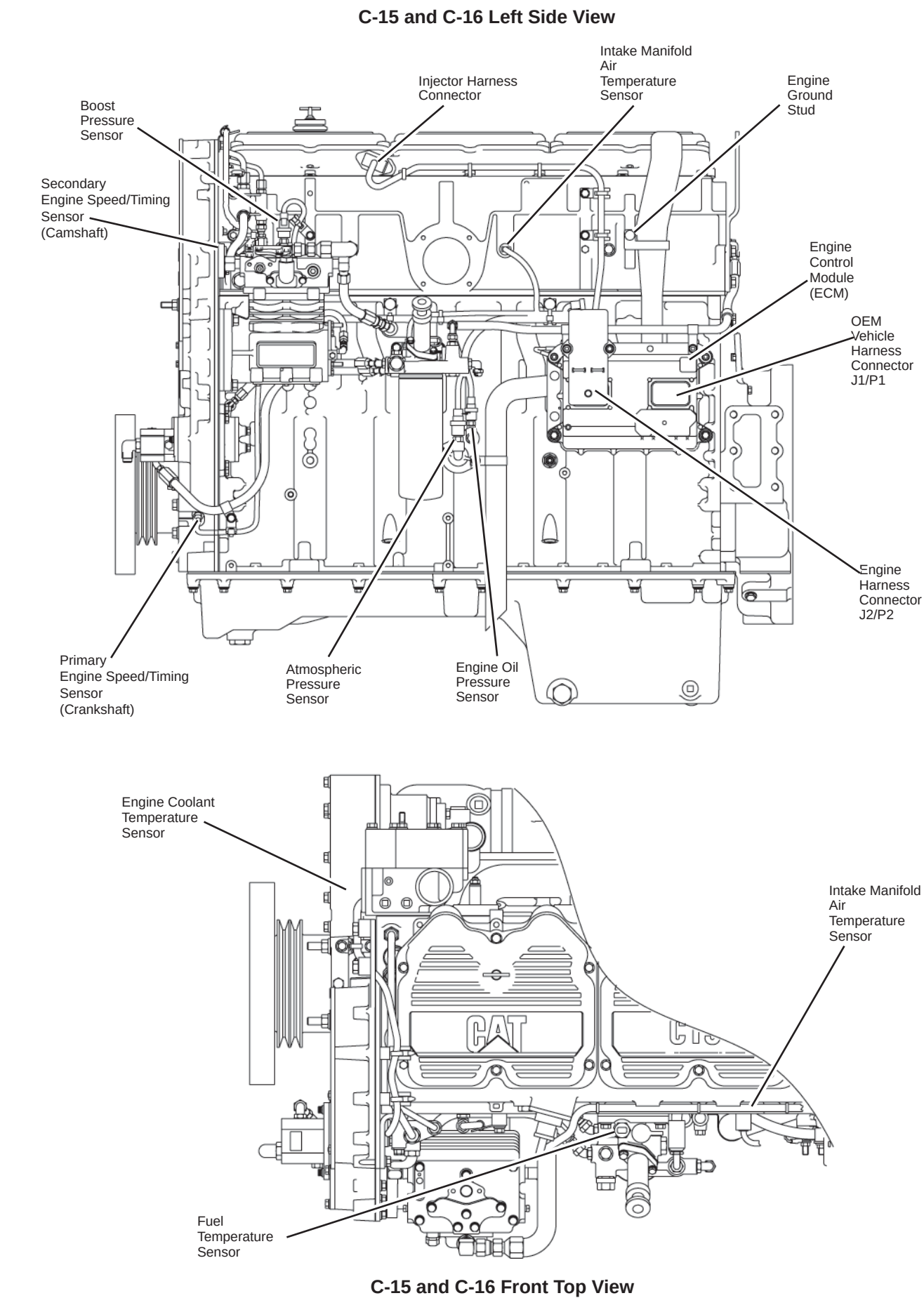
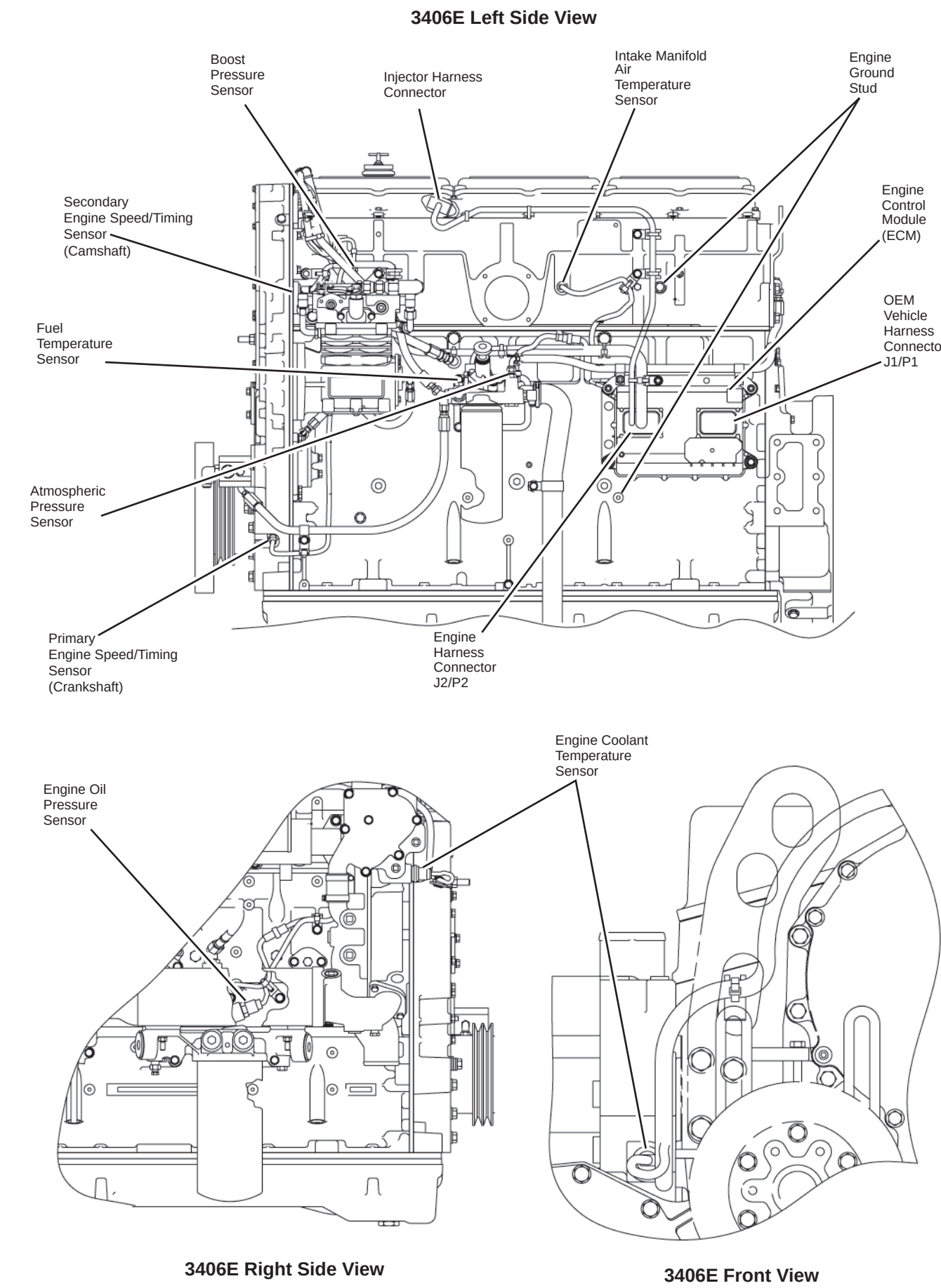
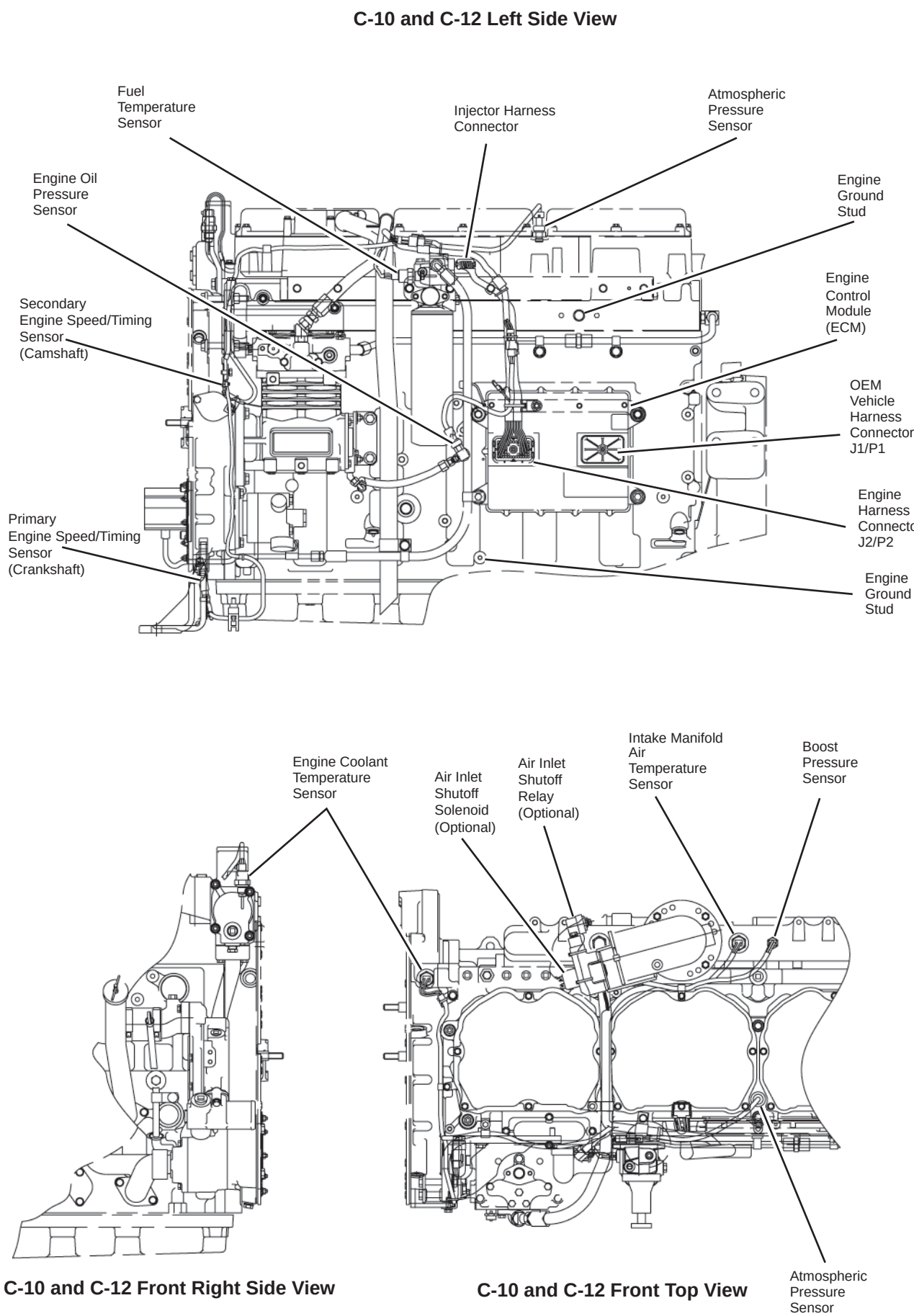
C-10, C-12, 3406E, C-15, and C-16 On-highway Engine Electrical System

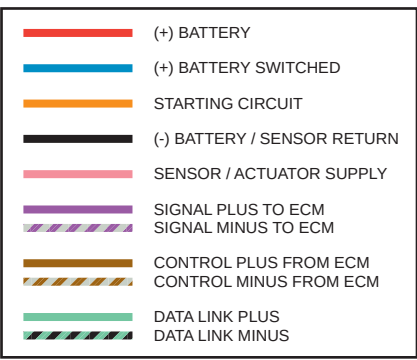
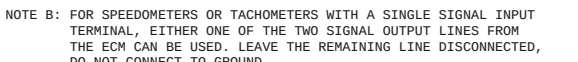
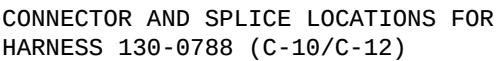
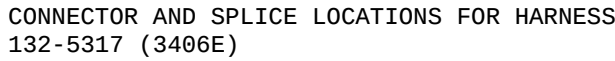
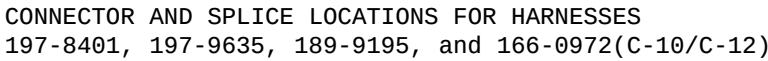
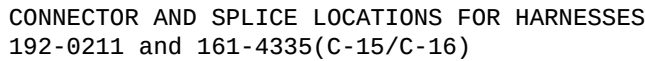
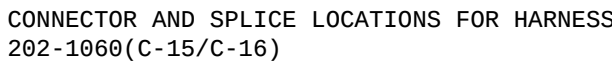
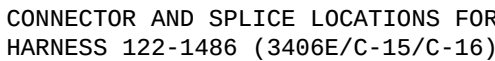
CPD1-UP
8YF1-UP
EGH1-UP
1MM1-UP
2KS1-UP
2WS1-UP
3CS1-UP
6NZ1-UP
7CZ1-UP
9NZ1-UP



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	SENSOR /ACTUATOR SUPPLY
	SIGNAL PLUS TO ECM
	SIGNAL MINUS TO ECM
	CONTROL PLUS TO ECM
	CONTROL MINUS FROM ECM
	DATA LINK PLUS
	DATA LINK MINUS

ALL SWITCHES ARE SHOWN IN THE OFF POSITION
UNLESS OTHERWISE SPECIFIED:

ALL WIRES TO BE 18 AWG OR LARGER SEE 012311 TYPE XSL
OR EQUIVALENT FOR TWISTED PAIR SPECIFICATION SEE SAE J1788

THIS SPECIFICATION IS FOR THE 3406B6, C-10, C-12, C-15, and C-16 ON
(5/7K: 0PN1-UP, 0EN4-UP, 3HMS-UP, 2KX3-UP, 2C15-UP, 3C15-UP, 2D2-
IN21-UP)

WAGNESCH	CHG
202-10669	01 (32 / ENGINE C-15 and C-16)
102-0211	08 (32 / ENGINE C-10 and C-12)
101-43355	08 (32 / ENGINE C-15 and C-16)
102-14486	07 (INJECTOR 3406B6, C-15 and C-16)
197-8401	02 (32 / ENGINE C-10 and C-12)
197-96305	08 (32 / ENGINE C-10 and C-12) TAILLET AIR SHUTOFF)
300-0090	02 (32 / INJECTOR C-10 and C-12)
106-09702	03 (32 / ENGINE C-10 and C-12)
130-07780	84 (32 / INJECTOR C-10 and C-12)
197-9537	07 (INJECTOR C-10 and C-12)