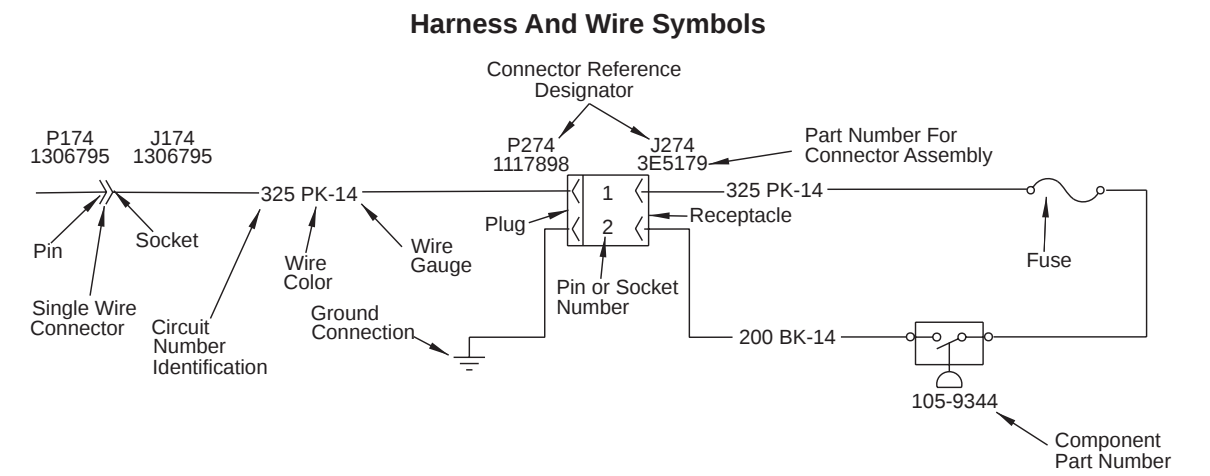


Diagnostic Code Listing					
PID-FMI	Description	Flash Codes	PID-FMI	Description	Flash Codes
0-00	No Detected Faults	55	105-11	Very High Intake Manifold Temp Warning	64
1-11	Cylinder 1 Fault	72	108-03	Atmospheric Pressure Sensor Open Circuit	26
2-11	Cylinder 2 Fault	72	108-04	Atmospheric Pressure Sensor 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
30-13	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/H Open Circuit	14
54-05	Multi-Function Output #6 Open Circuit	66	122-06	Retarder Solenoid Med/H 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

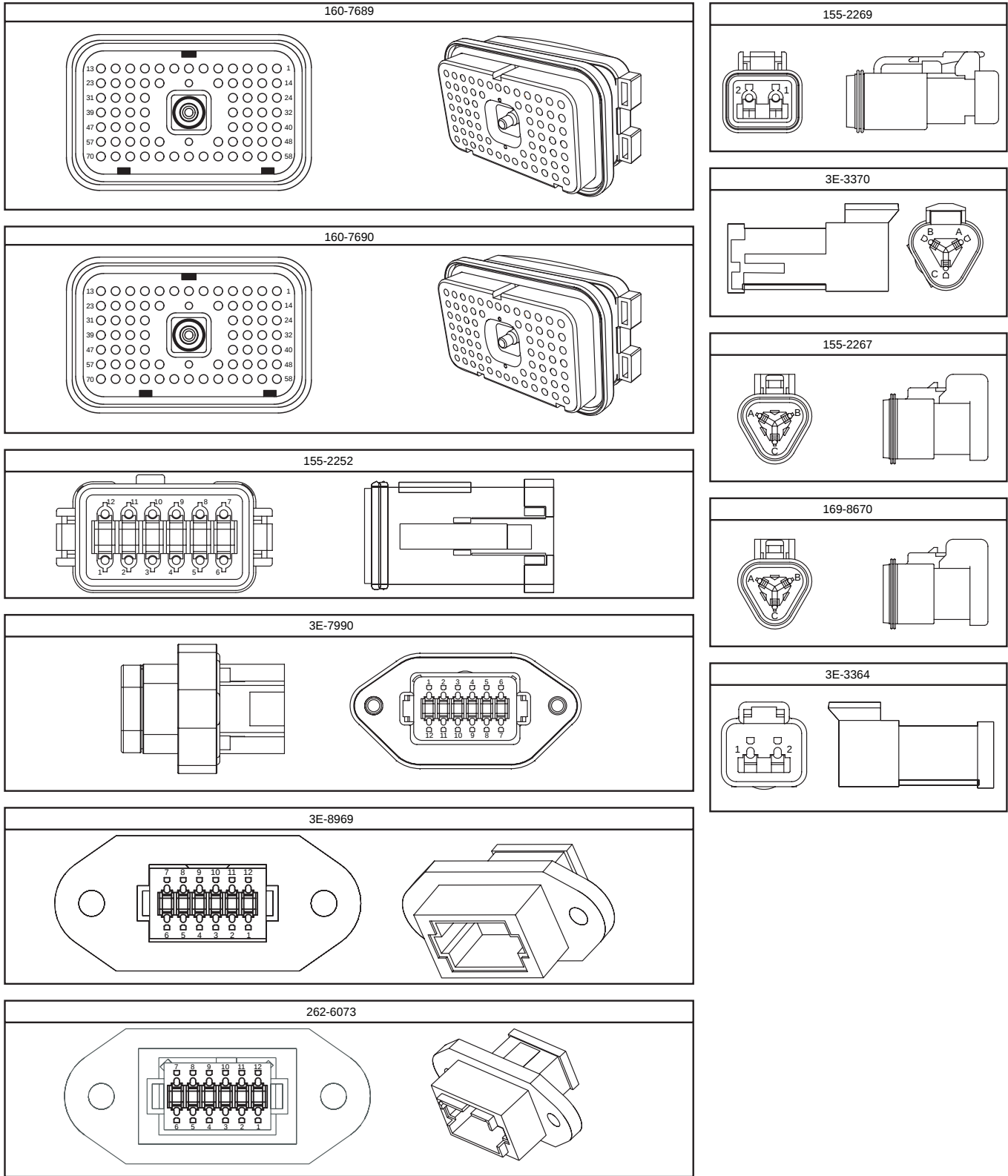
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REN2237-07
January 2007

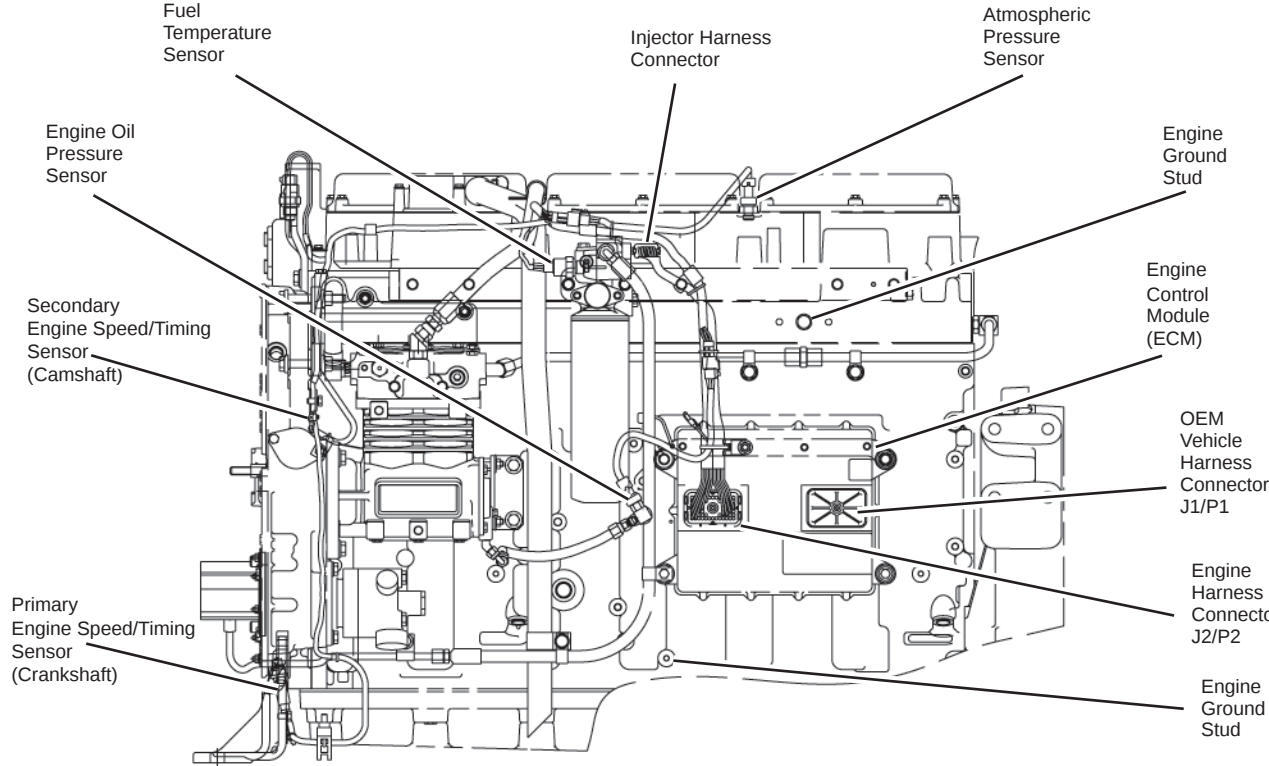
Schematic

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

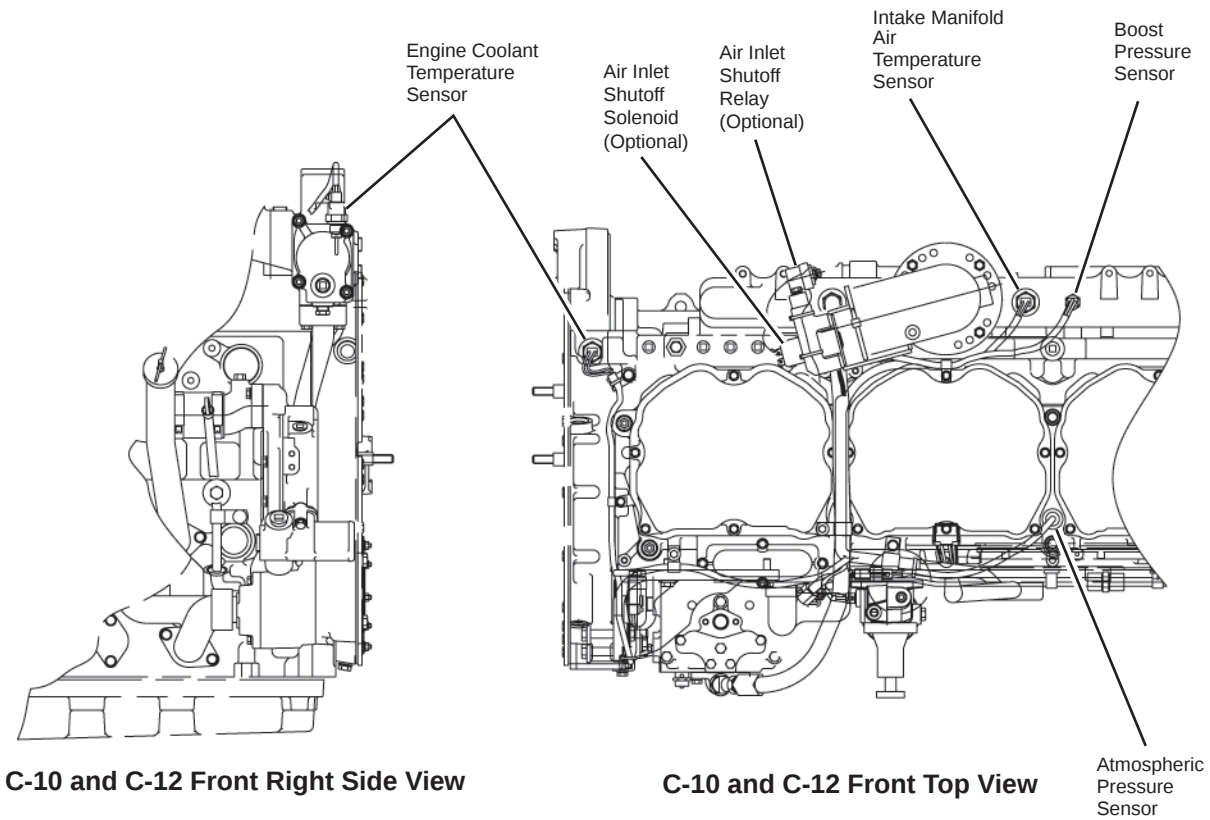


C-10 and C-12 Left Side View

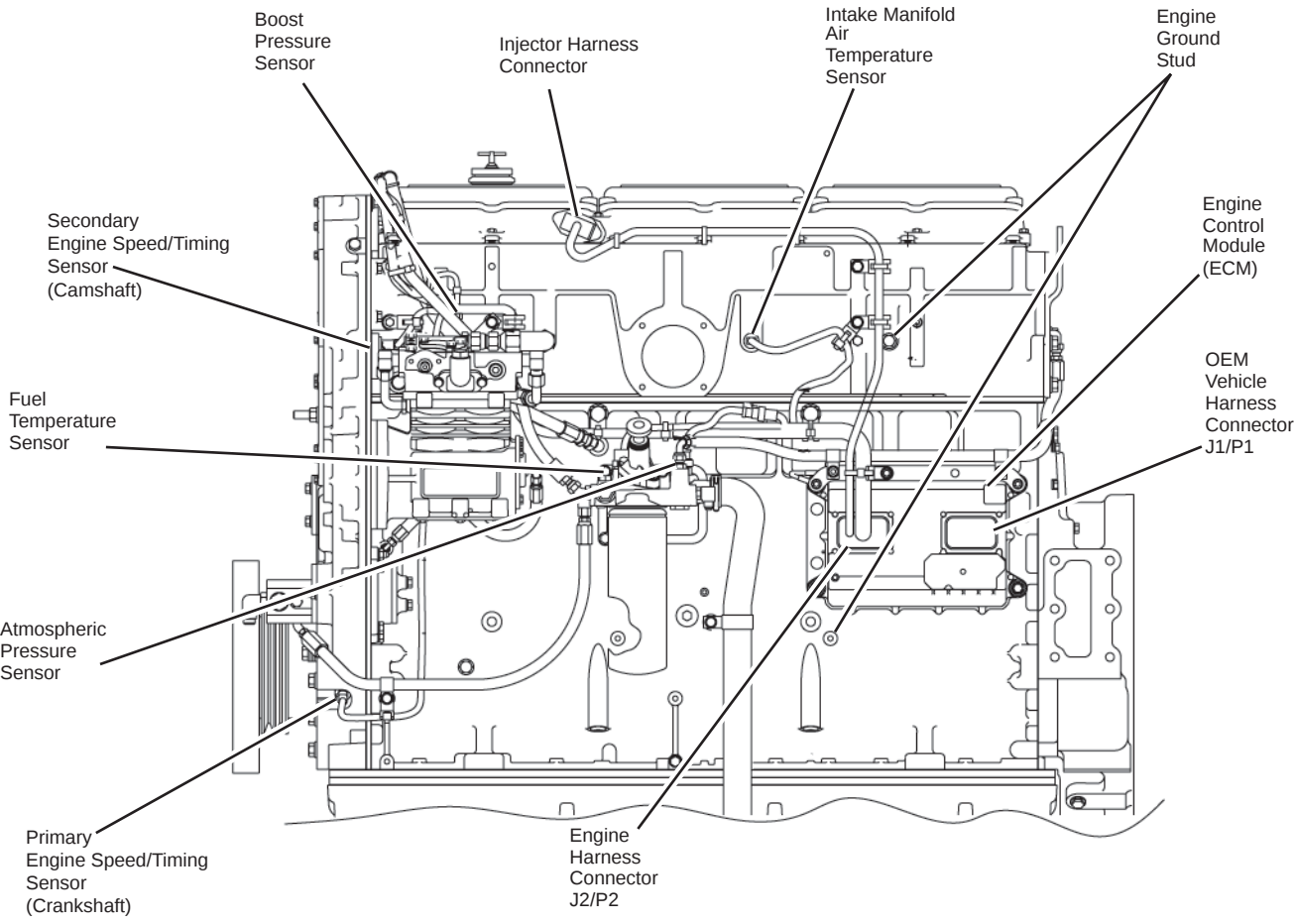


C-10 and C-12 Front Right Side View

C-10 and C-12 Front Top View

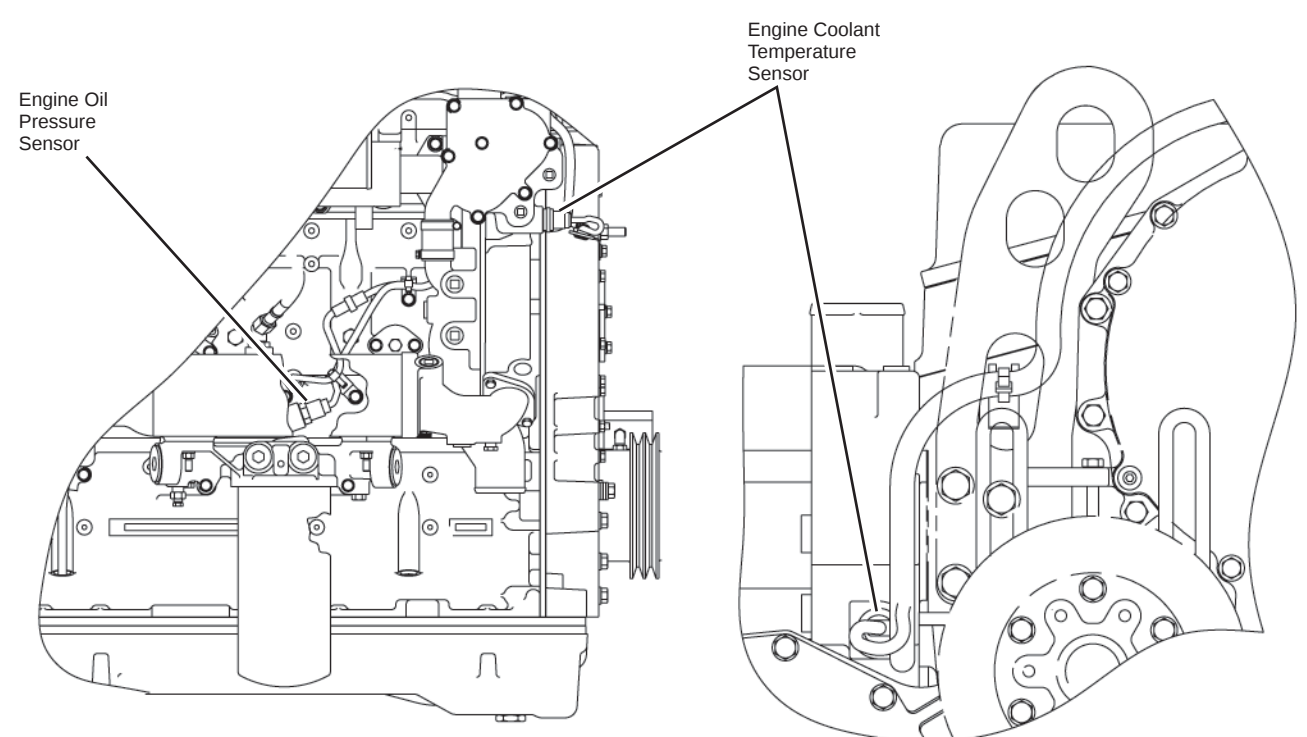


3406E Left Side View

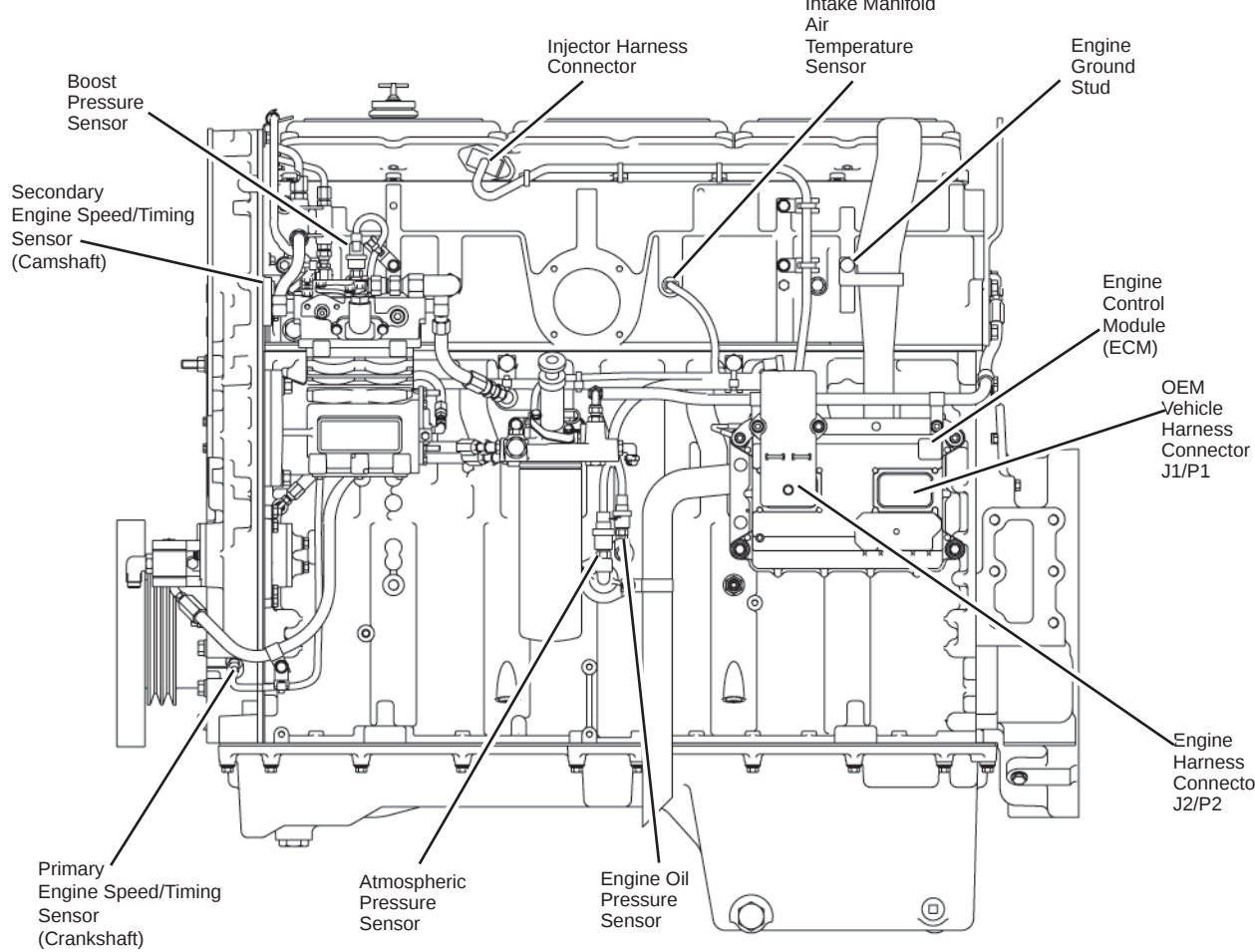


3406E Right Side View

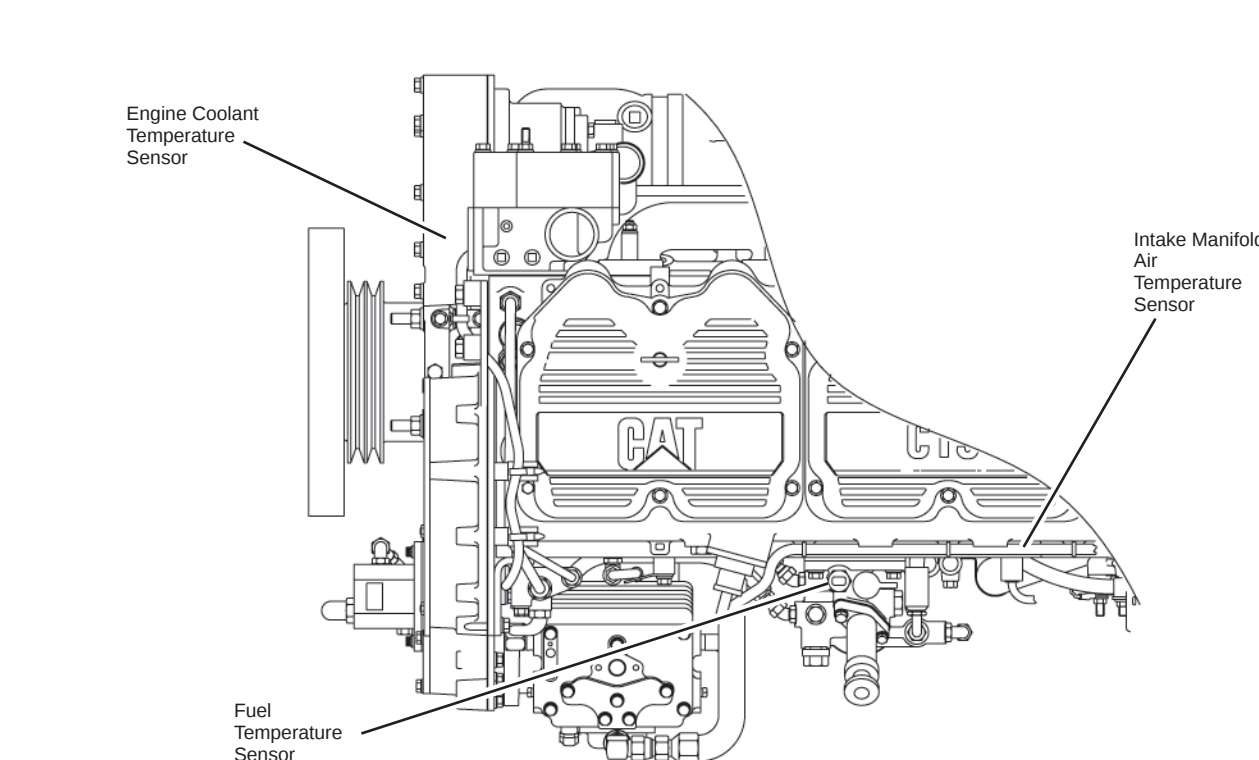
3406E Front View



C-15 and C-16 Left Side View



C-15 and C-16 Front Top View



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