

Schematic

793F XQ Off-Highway Truck Electrical System

SND1-UP

Volume 1 of 4: Cab

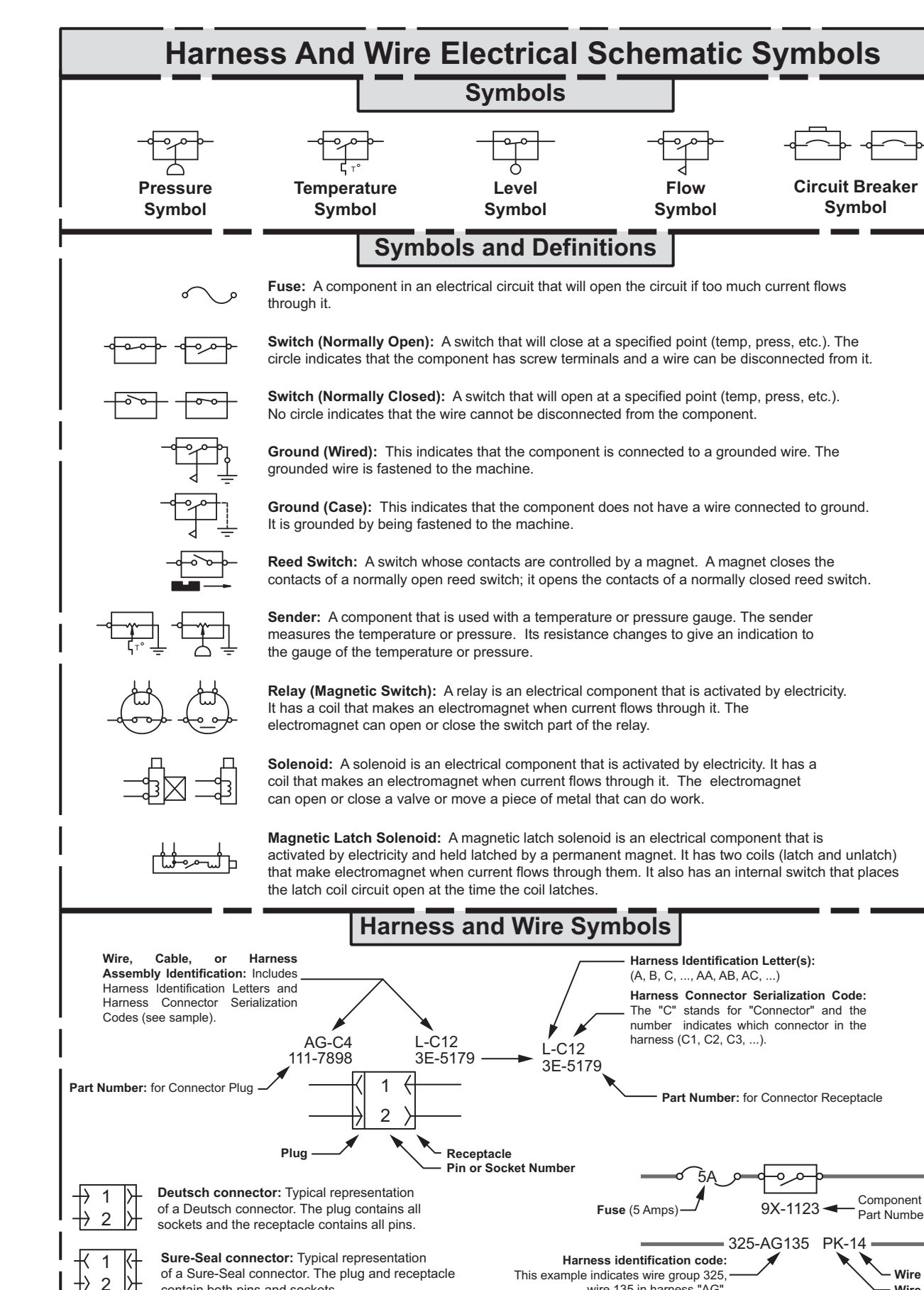
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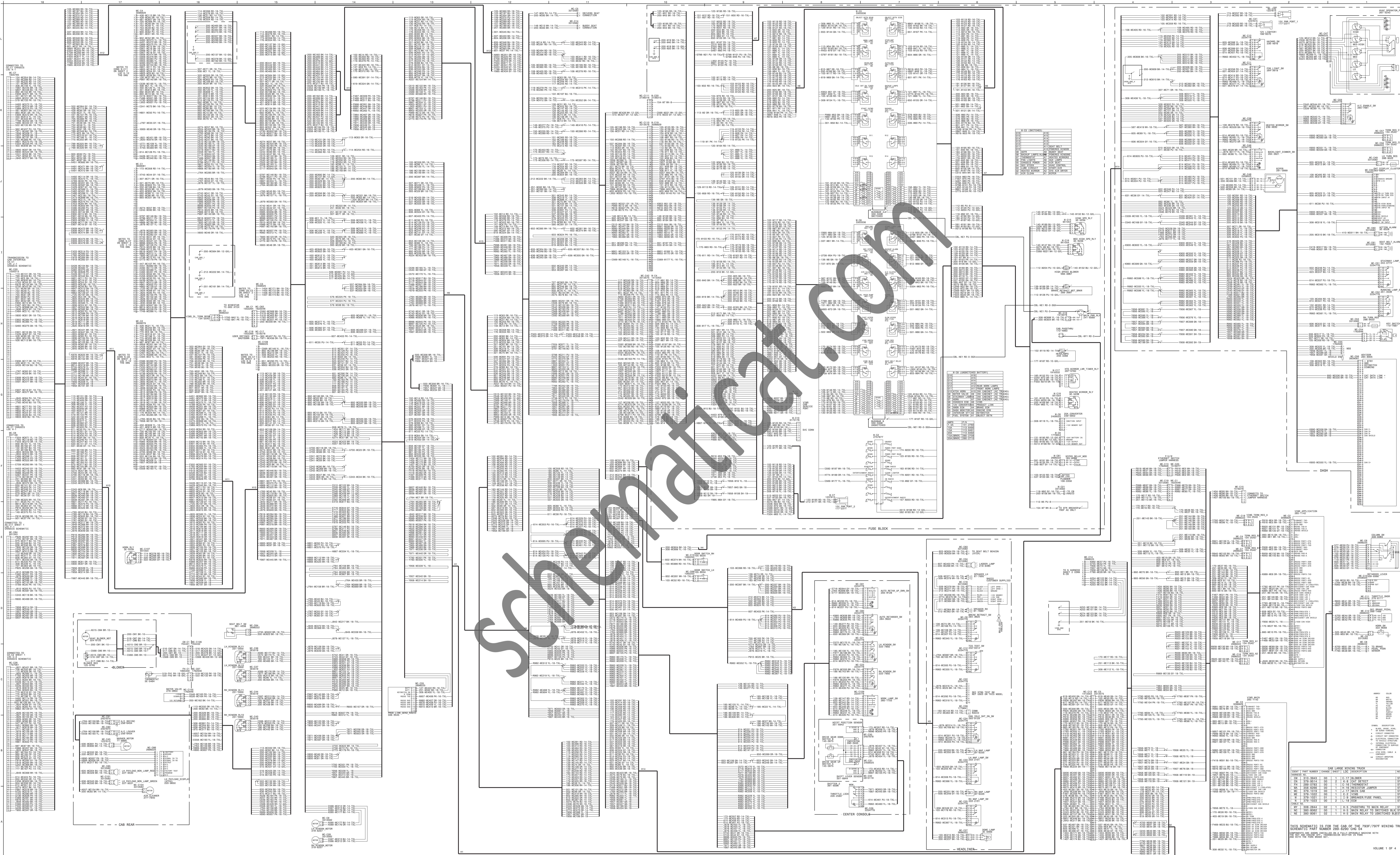
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UENR2574 VOL 1 of 5
42 Page, (Dimensions: 56 inches x 35 inches)

PRELIMINARY

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WIRE IDENTIFICATION

WIRE NO.	DESCRIPTION
100	IGNITION
101	IGNITION
102	IGNITION
103	IGNITION
104	IGNITION
105	IGNITION
106	IGNITION
107	IGNITION
108	IGNITION
109	IGNITION
110	IGNITION
111	IGNITION
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149	IGNITION
150	IGNITION

WIRE IDENTIFICATION

WIRE NO.	DESCRIPTION
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181	IGNITION
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190	IGNITION

WIRE IDENTIFICATION

WIRE NO.	DESCRIPTION
191	IGNITION
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193	IGNITION
194	IGNITION
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219	IGNITION
220	IGNITION

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SND1-UP

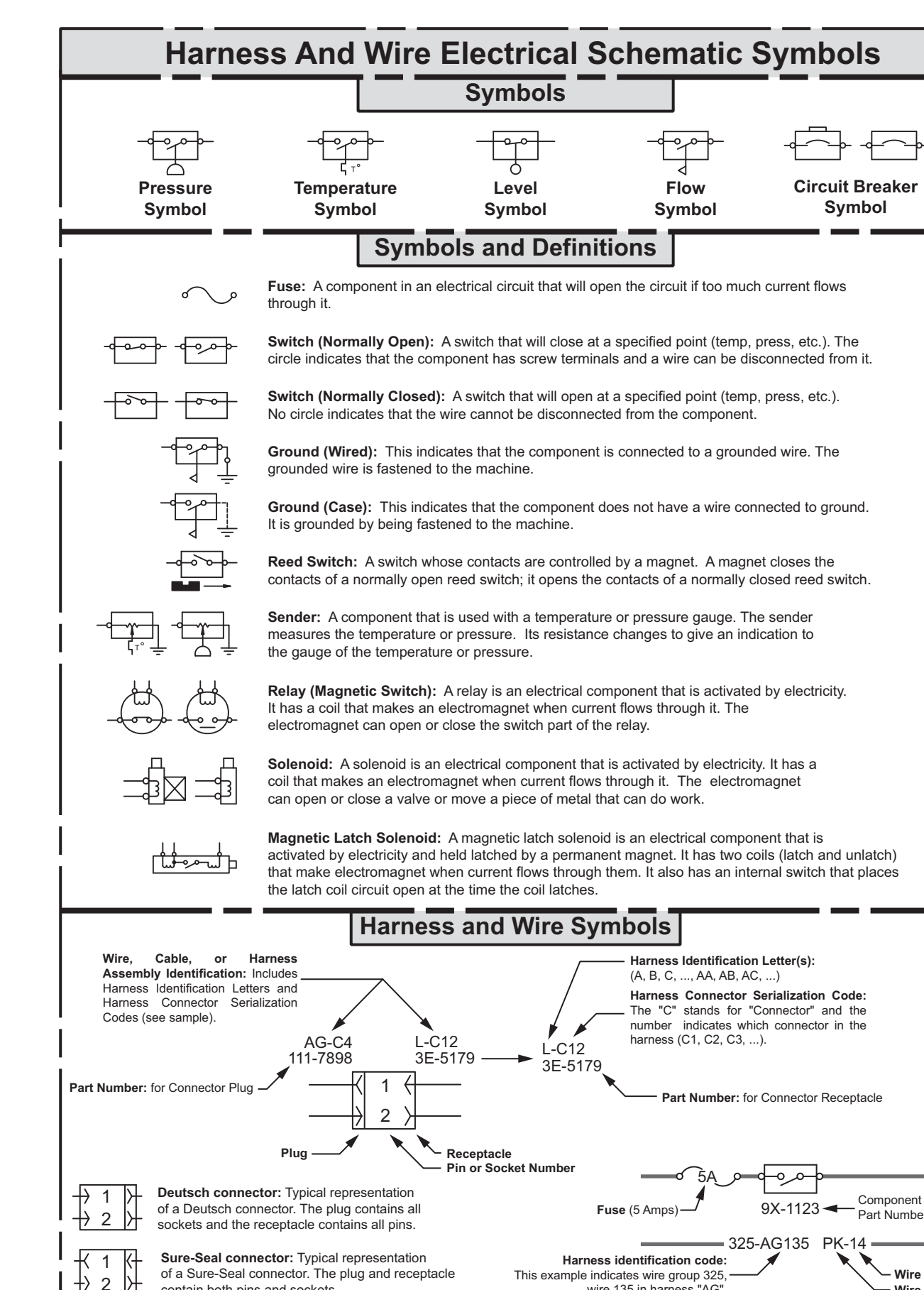
Volume 2 of 4: Cab

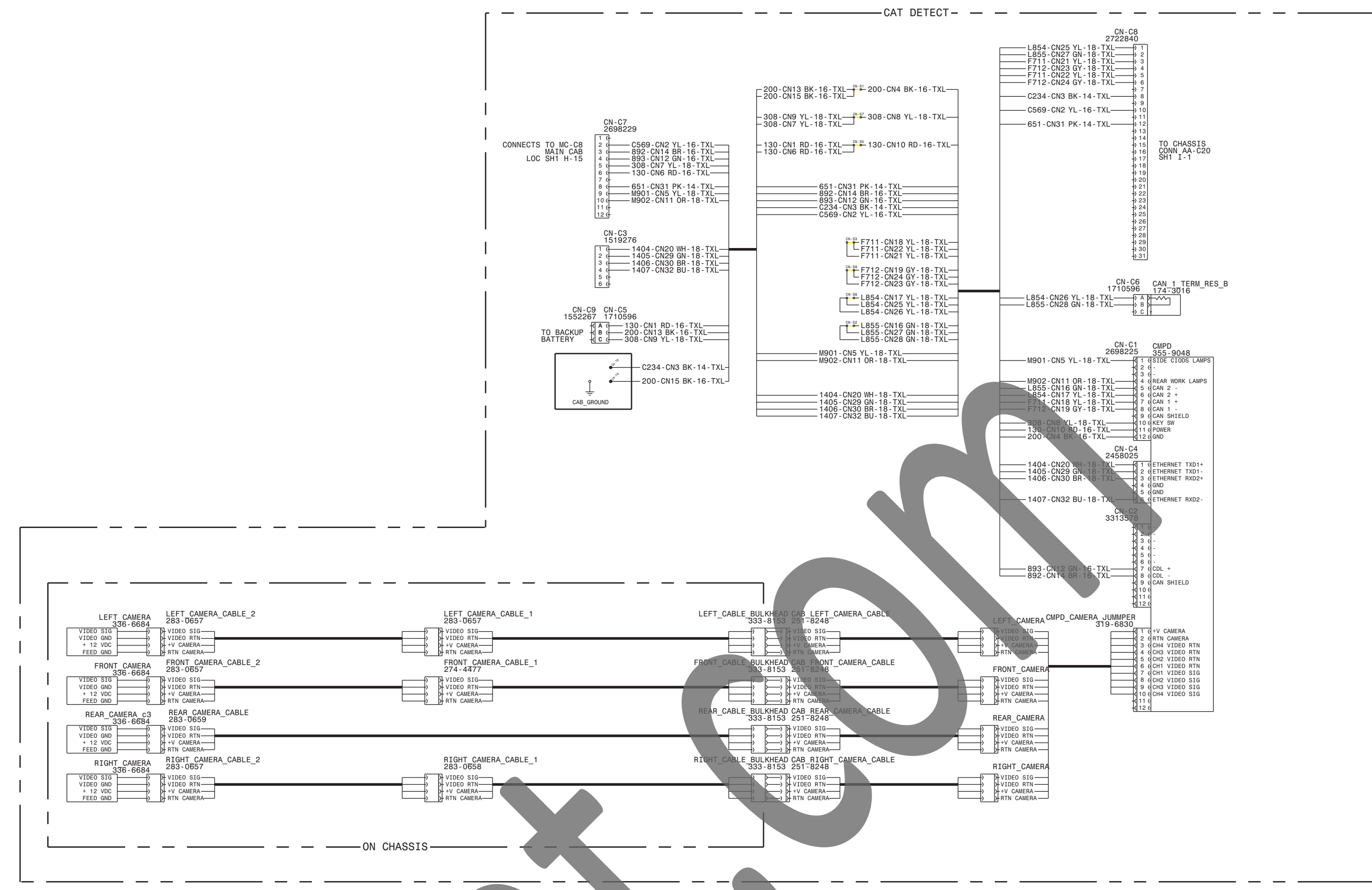
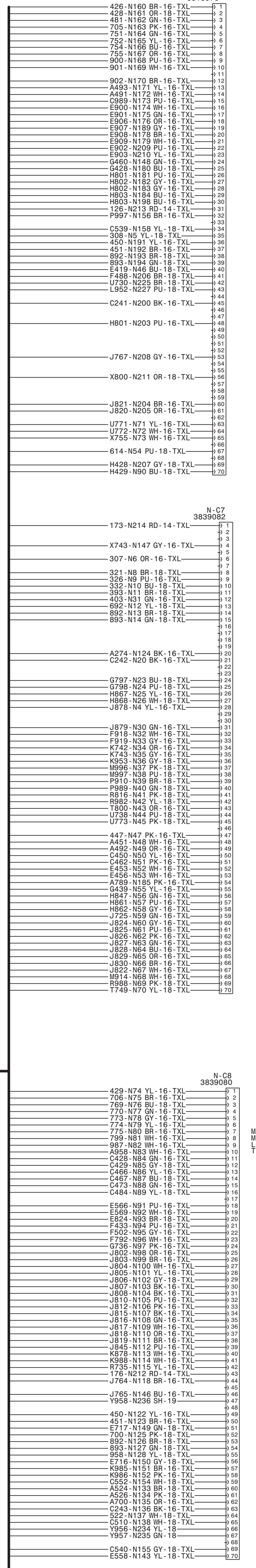
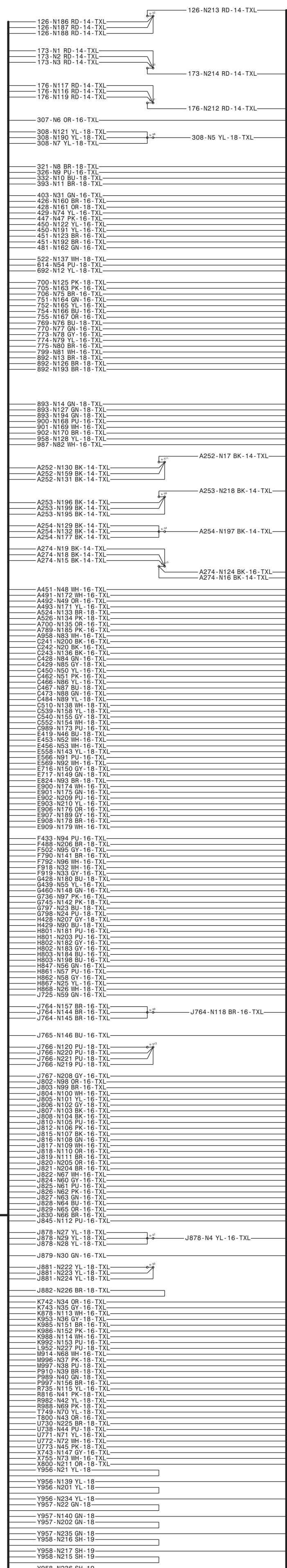
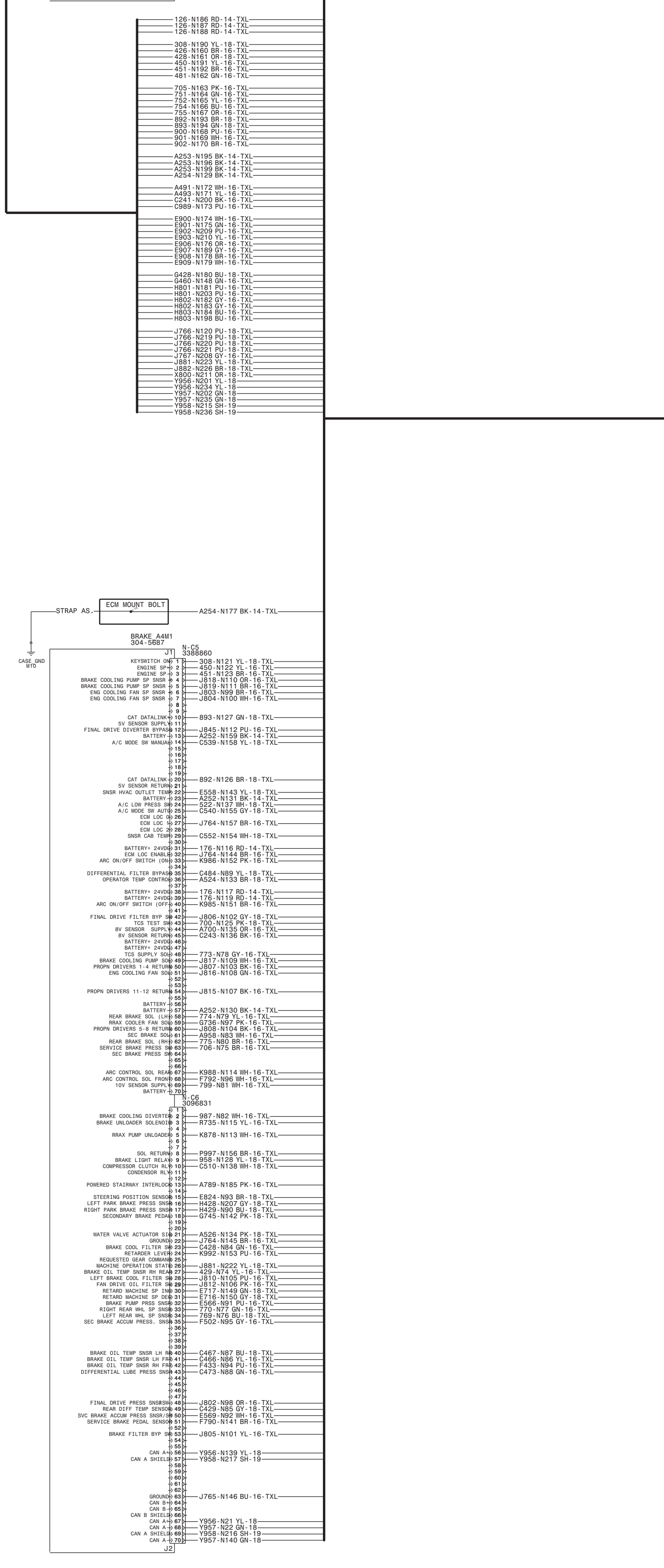
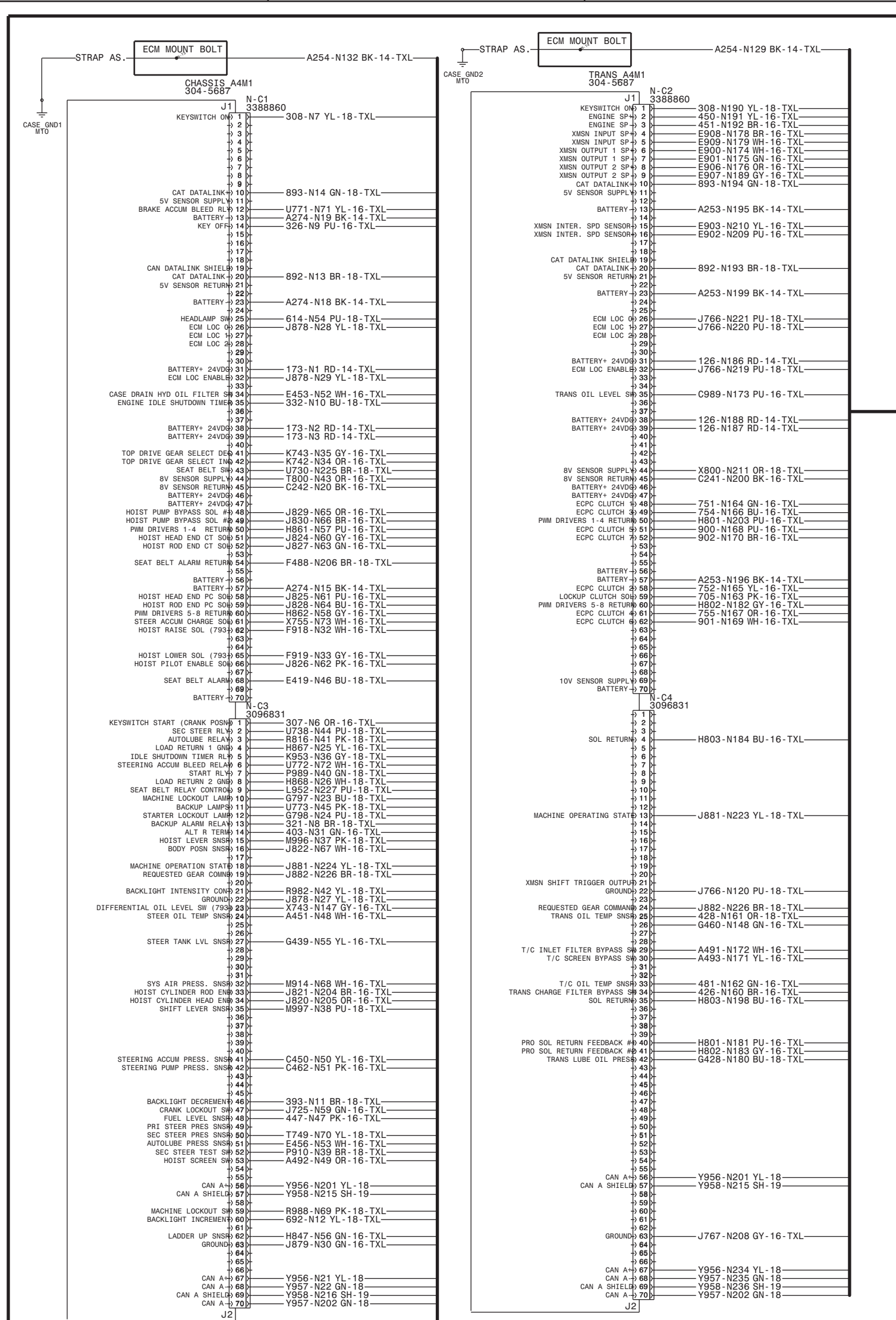
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793F XQ Off-Highway Truck Electrical System

SND1-UP

Volume 3 of 4: Chassis

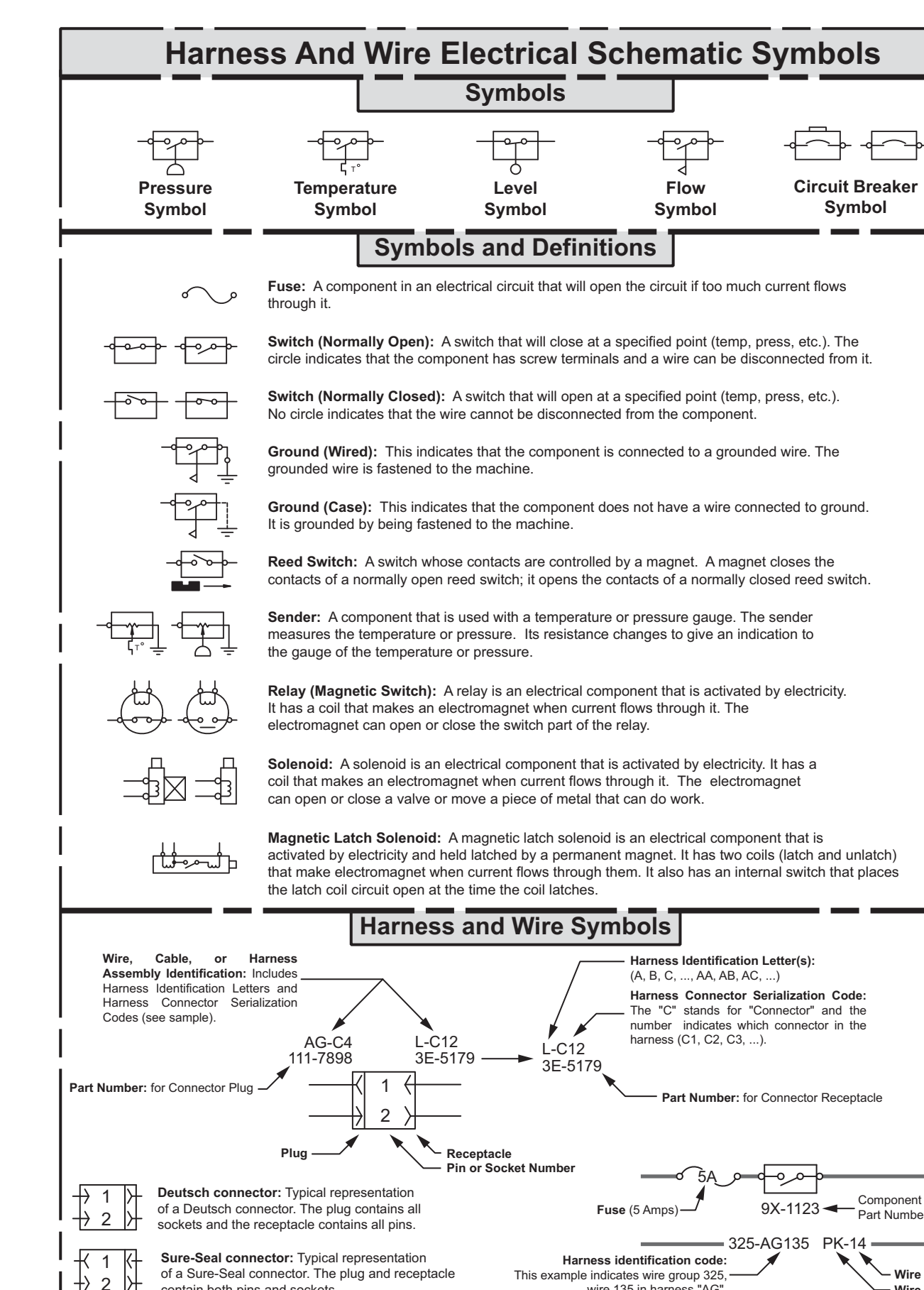
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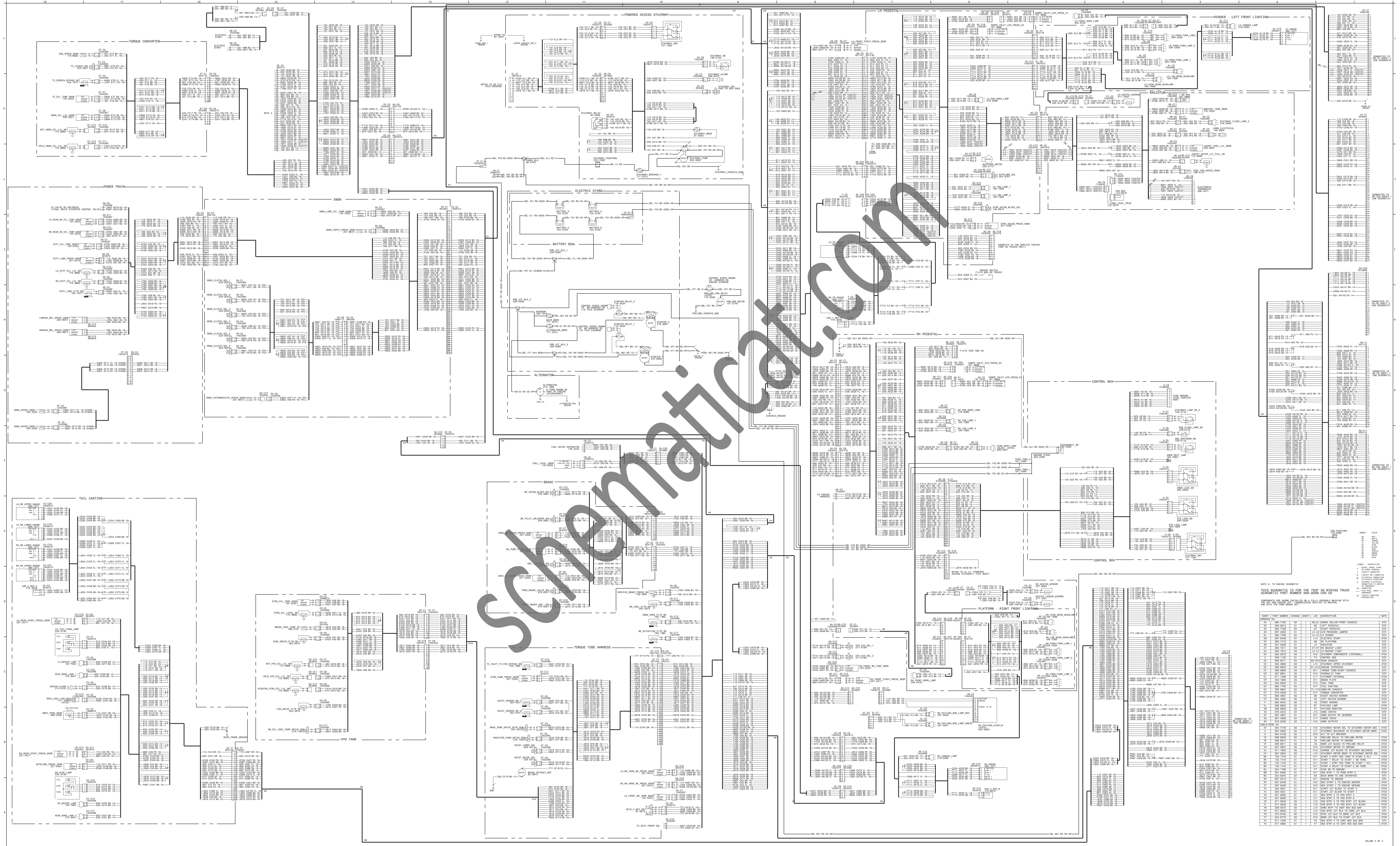
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UENR2574 VOL 3 of 5
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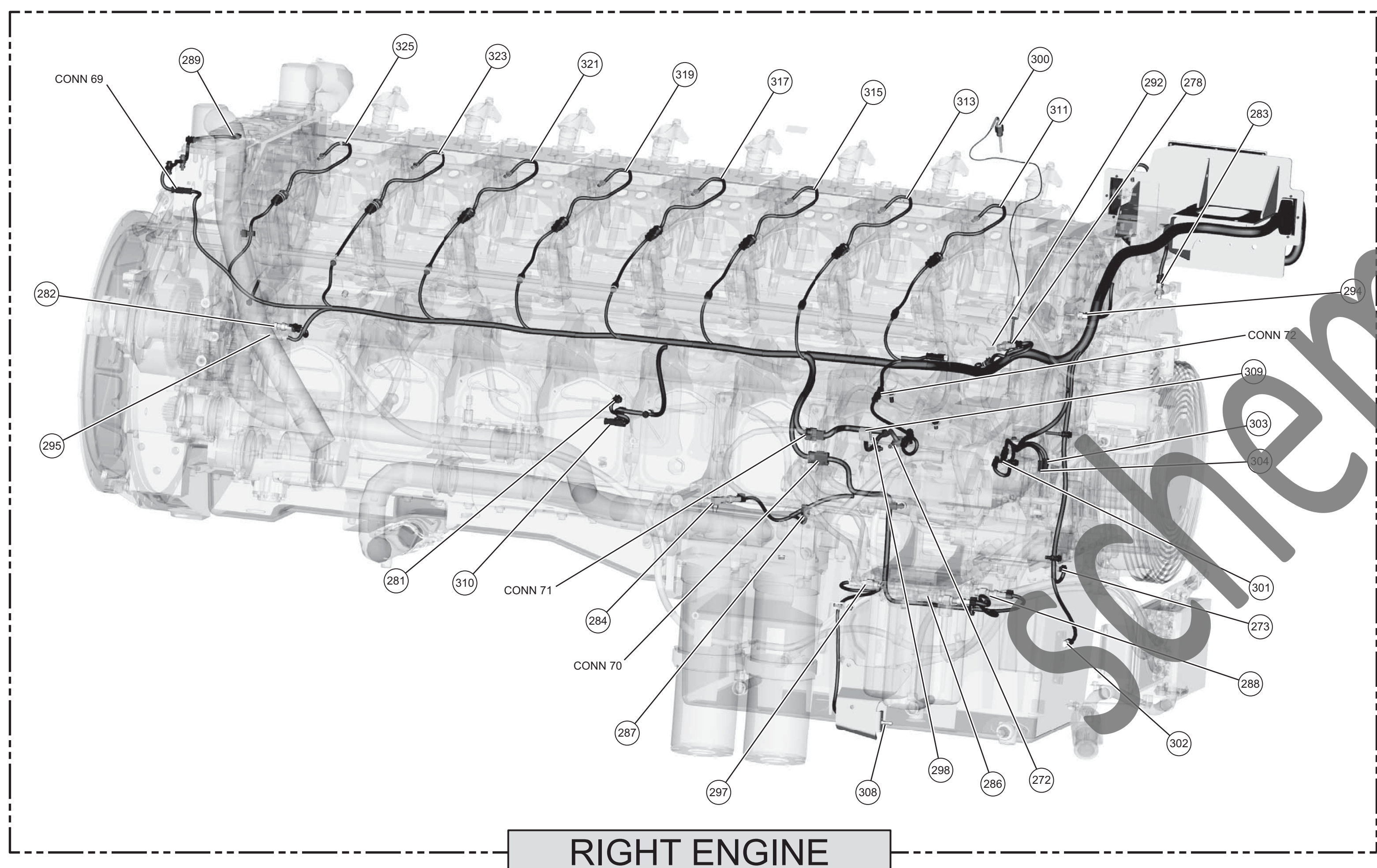
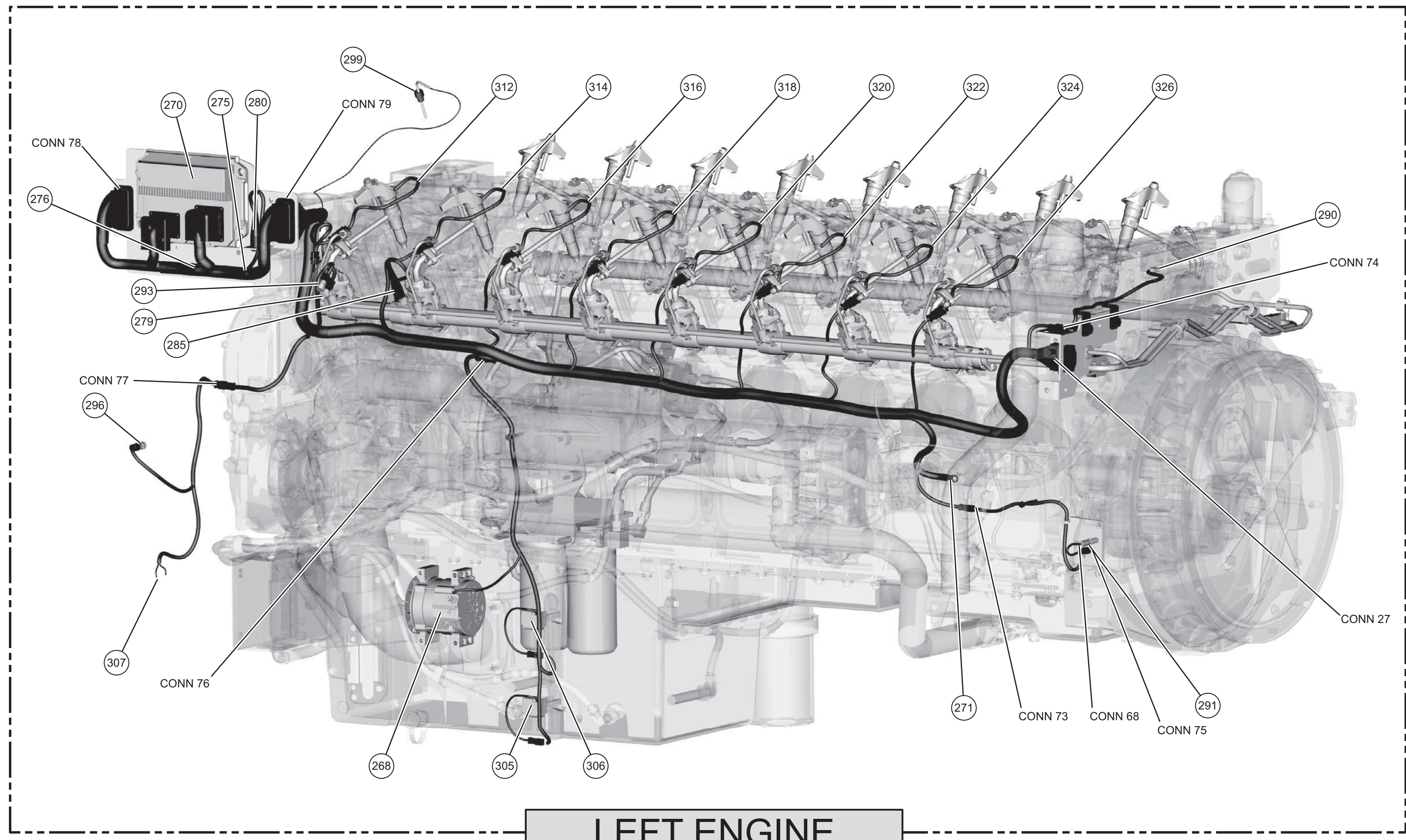




NOTE A: TO WIRE SCHEMATIC
THIS SCHEMATIC IS FOR THE BODY WIRING TRUCK
SCHEMATIC PART NUMBER 300-0000-00

CONNECTIONS ARE SHOWN IN THE WIRING SCHEMATIC WITH
THE WIRE NUMBER AND THE WIRE COLOR.

WIRE NO.	WIRE COLOR	DESCRIPTION	NOTE
300-0000-00	BL	TO BATTERY	
300-0000-01	BL	TO BATTERY	
300-0000-02	BL	TO BATTERY	
300-0000-03	BL	TO BATTERY	
300-0000-04	BL	TO BATTERY	
300-0000-05	BL	TO BATTERY	
300-0000-06	BL	TO BATTERY	
300-0000-07	BL	TO BATTERY	
300-0000-08	BL	TO BATTERY	
300-0000-09	BL	TO BATTERY	
300-0000-10	BL	TO BATTERY	
300-0000-11	BL	TO BATTERY	
300-0000-12	BL	TO BATTERY	
300-0000-13	BL	TO BATTERY	
300-0000-14	BL	TO BATTERY	
300-0000-15	BL	TO BATTERY	
300-0000-16	BL	TO BATTERY	
300-0000-17	BL	TO BATTERY	
300-0000-18	BL	TO BATTERY	
300-0000-19	BL	TO BATTERY	
300-0000-20	BL	TO BATTERY	
300-0000-21	BL	TO BATTERY	
300-0000-22	BL	TO BATTERY	
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300-0000-91	BL	TO BATTERY	
300-0000-92	BL	TO BATTERY	
300-0000-93	BL	TO BATTERY	
300-0000-94	BL	TO BATTERY	
300-0000-95	BL	TO BATTERY	
300-0000-96	BL	TO BATTERY	
300-0000-97	BL	TO BATTERY	
300-0000-98	BL	TO BATTERY	
300-0000-99	BL	TO BATTERY	
300-0000-100	BL	TO BATTERY	



Schematic

793F XQ Off-Highway Truck Electrical System

SND1-UP

Volume 4 of 4: Engine

Harness And Wire Electrical Schematic Symbols

Symbols

- Pressure Symbol
- Temperature Symbol
- Level Symbol
- Flow Symbol
- Circuit Breaker Symbol

Symbols and Definitions

- Fuse:** A component in an electrical circuit that will open the circuit if too much current flows through it.
- Switch (Normally Open):** A switch that will close at a specified point (temp, press, etc.). The circle indicates that the component has screw terminals and a wire can be disconnected from it. No circle indicates that the wire cannot be disconnected from the machine.
- Switch (Normally Closed):** A switch that will open at a specified point (temp, press, etc.). The circle indicates that the component has screw terminals and a wire can be disconnected from the machine. No circle indicates that the wire cannot be disconnected from the machine.
- Ground (Wired):** This indicates that the component is connected to a grounded wire. The grounded wire is fastened to the machine.
- Ground (Case):** This indicates that the component does not have a wire connected to ground. It is grounded by being fastened to the machine.
- Reed Switch:** A switch whose contacts are controlled by a magnet. A magnet closes the contacts of a normally open reed switch; it opens the contacts of a normally closed reed switch.
- Sender:** A component that is used with a temperature or pressure gauge. The sender measures the temperature or pressure. Its resistance changes to give an indication to the gauge of the temperature or pressure.
- Relay (Magnetic Switch):** A relay is an electrical component that is activated by electricity. It has a coil that makes an electromagnet when current flows through it. The electromagnet can open or close the switch part of the relay.
- Solenoid:** A solenoid is an electrical component that is activated by electricity. It has a coil that makes an electromagnet when current flows through it. The electromagnet can open or close a valve or move a piece of metal that does its work.
- Magnetic Latch Solenoid:** A magnetic latch solenoid is an electrical component that is activated by electricity and held latched by a permanent magnet. It has two coils (latch and unlatch) that make an electromagnet when current flows through them. It also has an internal switch that places the latch coil circuit open at the time the coil latches.

Harness and Wire Symbols

- Wire, Cable, or Harness:** Represented by a solid line with a label (A, B, C, ..., AH, AB, AC, ...).
- Assembly Identification Letters and Connector:** Represented by a dashed line with a label (AG-C4 111-7268).
- Harvest Identification Letters:** Represented by a dashed line with a label (L-C12 3E-5173).
- Harvest Connector Serial Code:** Represented by a dashed line with a label (L-C12 3E-5173).
- Part Number for Connector Plug:** Represented by a label (AG-C4 111-7268).
- Part Number for Connector Receptacle:** Represented by a label (L-C12 3E-5173).
- Deutsch connector:** Typical representation of a Deutsch connector. The plug contains all pins and the receptacle contains all pins.
- Sure-Seal connector:** Typical representation of a Sure-Seal connector. The plug and receptacle contain both pins and sockets.
- Fuse (5 Amps):** Represented by a symbol with a label (SIX-1123).
- Component Part Number:** Represented by a label (325-AG135 PK-14).
- Wire Gauge:** Represented by a label (14).
- Wire Color:** Represented by a label (PK-14).

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Component	Schematic Location	Machine Location	Component	Schematic Location	Machine Location
Compressor GP - Refrigerant	D-6	289	Sensor GP - Temperature (HPCR Rail)	B-7	298
Compressor GP - Engine	F-1	270	Sensor GP - Temperature (Turbocharger Inlet, LH)	E-6	299
Diagnose - Main Circuit	D-7	271	Suppressor - Arc (AC)	B-6	301
Module - HPCR Power	B-7	272	Switch AS - Engine Shutdown	C-6	302
Pump GP - Fuel Priming (Electric)	C-6	273	Switch AS - Pressure (Refrigerant, High, Low)	C-6	303
Receptacle AS	D-7	274	Switch AS - Pressure (Refrigerant, Low Side)	C-6	304
Resistor AS - Can A Data Link	B-2	275	Switch GP - Liquid Level (Low Oil)	D-7	305
Resistor AS - Engine Can	C-7	276	Switch GP - Liquid Level (Oil Fill)	D-7	306
Resistor AS - Engine Can Data Link	B-2	277	Switch GP - Magnetic (Prohibitization Pump Relay)	D-6	307
Sensor GP - Pressure (Air Inlet 2)	C-7	278	Switch GP - Priming Pump	B-7	308
Sensor GP - Pressure (Air Inlet 1)	E-6	279	Valve - Fuel Control	B-7	309
Sensor GP - Pressure (Atmospheric)	B-2	280	Valve - Metering (Oil Renewal System)	C-8	310
Sensor GP - Pressure (Crankcase)	C-8	281	Writing GP - Unit Injector 1	C-7	311
Sensor GP - Pressure (Engine Block Coolant Inlet 1)	C-8	282	Writing GP - Unit Injector 2	E-6	312
Sensor GP - Pressure (Engine Block Coolant Inlet)	C-6	283	Writing GP - Unit Injector 3	C-7	313
Sensor GP - Pressure (Engine Oil Filter Inlet)	B-7	284	Writing GP - Unit Injector 4	E-6	314
Sensor GP - Pressure (Fuel Rail)	E-6	285	Writing GP - Unit Injector 5	C-7	315
Sensor GP - Pressure (Fuel Transfer Filtered)	B-7	286	Writing GP - Unit Injector 6	E-6	316
Sensor GP - Pressure (Fuel Transfer Pump Inlet)	B-6	287	Writing GP - Unit Injector 7	C-7	317
Sensor GP - Pressure (Transfer Pump)	B-6	288	Writing GP - Unit Injector 8	E-6	318
Sensor GP - Speed (Primary, Timing, Camshaft)	B-8	289	Writing GP - Unit Injector 9	C-7	319
Sensor GP - Speed (Secondary, Timing, Camshaft)	D-7	290	Writing GP - Unit Injector 10	E-6	320
Sensor GP - Speed (Timing, Camshaft)	D-7	291	Writing GP - Unit Injector 11	C-7	321
Sensor GP - Temperature (Air Inlet Manifold 2)	C-7	292	Writing GP - Unit Injector 12	E-7	322
Sensor GP - Temperature (Air Inlet Manifold)	E-6	293	Writing GP - Unit Injector 13	C-7	323
Sensor GP - Temperature (Engine Block Coolant Outlet)	C-6	294	Writing GP - Unit Injector 14	E-7	324
Sensor GP - Temperature (Engine Coolant Inlet 1)	C-8	295	Writing GP - Unit Injector 15	C-7	325
Sensor GP - Temperature (Engine Coolant Pump Outlet)	D-6	296	Writing GP - Unit Injector 16	E-7	326
Sensor GP - Temperature (Fuel)	B-8	297			

Connector Number	Schematic Location
CONN 27	E-8
CONN 69	C-8
CONN 70	C-8
CONN 71	C-7
CONN 72	C-7
CONN 73	D-7
CONN 74	E-7
CONN 75	E-7
CONN 76	E-7
CONN 77	E-6
CONN 78	C-5
CONN 79	E-5

* The connectors shown in this chart are for harness-to-harness connections. Connectors that join a harness to a component are generally located at or near the component. See the Component Location Chart.

Part No.	Function	Actuate	Deactuate	Contact Position
114-5333	AC High/Low Pressure	275 to 1750 kPa (50.0 to 253.8 psi)	-	Normally Open*
149-6371	AC Low Side Pressure	103.4 ± 13.8 kPa (14.9 ± 2 psi)	34.5 ± 7 kPa (5 ± 1 psi)	Normally Open

* With increasing pressure the closed condition can be maintained (up to 2800 kPa (405 psi), with decreasing pressure the closed condition can be maintained down to 170 kPa (25 psi).

* Contact position at the contacts of the harness connector.

Part No.	Component Description	Resistance (Ohms)
174-3016	Resistor Engine Can Data Link CAN A Data Link	120 ± 10%

* At room temperature unless otherwise noted.

Title	Form Number
Cross Reference for Electrical Connectors:	REHS0270
Engine Control:	KENR5398

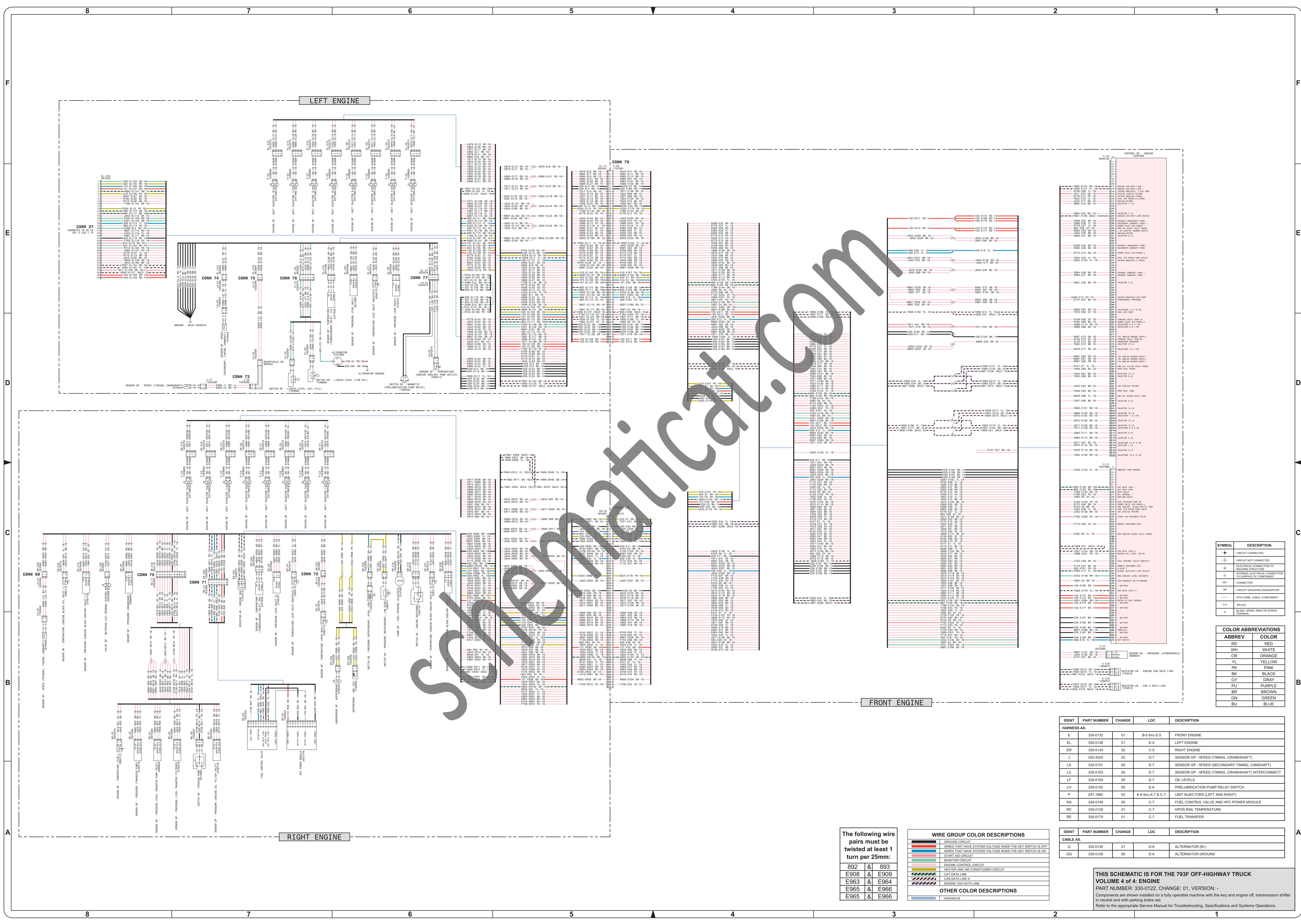
FMI No.	Failure Description
0	Data valid but above normal operational range.
1	Data valid but below normal operational range.
2	Data erratic, intermittent, or incorrect.
3	Voltage above normal or shorted high.
4	Voltage below normal or shorted low.
5	Current below normal or open circuit.
6	Current above normal or grounded circuit.
7	Mechanical system not responding properly.
8	Abnormal frequency, pulse width, or period.
9	Abnormal amplitude.
10	Abnormal rate of change.
11	Failure mode not identifiable.
12	Bad device or component.
13	Out of calibration.
14	Parameter failures.
15	Parameter failures.
16	Parameter not available.
17	Module not responding.
18	Sensor supply fault.
19	Condition not met.
20	Parameter failure.

* The FMI is a diagnostic code that indicates what type of failure has occurred.

Event Code	Event Description	Condition
E0072	Oil Level/Low Man	
E0096	High Fuel Pressure	Troubleshooting, "Fuel Pt"
E0098	Engine Pre-lube Override	The keyswitch has B
E0099	Engine Oil Filter Restriction Warning	Troubleshooting
E0101	High Crankcase Pressure Warning	Troubleshooting
E0197	High Engine Oil Temperature	Troubleshooting.
E0197	High Engine Oil Temperature	
E0197	High Engine Oil Temperature	
E0198	Low Fuel Pressure	
E0199	Low Coolant Temperature	
E0232	High Fuel/Water Separator Water Level	
E0233	Low Engine Pre-lube Pressure	
E0245	High Right Turbo Turbine Inlet Temperature	
E0246	High Left Turbo Turbine Inlet Temperature	
E0265	User Defined Shutdown	
E0278	High Exhaust Differential Temperature	
E0380	Low Engine Oil Pressure	
E0381	High Engine Coolant Temperature	
E0382	Engine Overspeed	
E0390	Fuel Filter Restriction	
E0396	High Fuel Rail Pressure	
E0398	Low Fuel Rail Pressure	
E0539	High Intake Manifold Air Temperature	
E0583	High Air Inlet #1 Differential Pressure	
E0584	High Air Inlet #2 Differential Pressure	
E0585	High Air Inlet #3 Differential Pressure	
E0606	High Air Inlet Differential Pressure	
E0678	Ground Level Shutdown	
E0770	High Fuel Rail Temperature	
E1044	High Intake Manifold Pressure	
E1106	High Fuel Rail Pump Flow	
E2089	Oil Renewal System Cannot Operate	
E2112	Low Engine Coolant Pressure	
E2143	Low Engine Coolant Level	
E2172	Low Fuel Transfer Pump Inlet Pressure	

Module Identifier (MID) ²	Component
0001	Cylinder #1 Injector
0002	Cylinder #2 Injector
0003	Cylinder #3 Injector
0004	Cylinder #4 Injector
0005	Cylinder #5 Injector
0006	Cylinder #6 Injector
0007	Cylinder #7 Injector
0008	Cylinder #8 Injector
0009	Cylinder #9 Injector
0010	Cylinder #10 Injector
0011	Cylinder #11 Injector
0012	Cylinder #12 Injector
0013	Cylinder #13 Injector
0014	Cylinder #14 Injector
0015	Cylinder #15 Injector
0016	Cylinder #16 Injector
0018	Fuel Control Valve # 8 Volt DC Supply
0041	Throttle Position Sensor
0091	Fuel Filter Differential Pressure Sensor
0099	Engine Oil Filter Differential Pressure Sensor
0100	Engine Oil Pressure Sensor
0101	Crankcase Air Pressure Sensor
0110	Engine Coolant Temperature Sensor
0168	Electrical System Voltage
0171	Ambient Air Temperature Sensor
0172	Intake Manifold Air Temperature Sensor
0174	Fuel Temperature Sensor
0175	Engine Oil Temperature Sensor
0190	Engine Speed Sensor
0247	SAE J1939 Data Link
0253	Personality Module
0262	5 Volt Sensor DC Power Supply
0267	Remote Shutdown Input
0268	Programmed Parameter Fault
0274	Atmospheric Pressure Sensor
0289	Fuel Pressure Sensor
0296	Transmission Control
0338	Engine Pre-lube Pump Relay
0342	Secondary Engine Speed Sensor
0460	Fuel Pressure Sensor
0533	Brake Control
0542	Engine Oil Pressure Sensor
0569	Oil Renewal Solenoid
1273	Chassis Control Module
1491	Right Turbo Turbine Inlet Temperature Sensor
1492	Left Turbo Turbine Inlet Temperature Sensor
1627	Fuel Pump Relay
1785	Intake Manifold Pressure Sensor
1795	Intake Manifold #2 Air Temperature Sensor
1797	Fuel Rail Pressure Sensor
1834	Ignition Key Switch
2131	5 Volt Sensor DC Power Supply #2
2247	Fuel Transfer Pump Inlet Pressure Sensor
2302	Engine Coolant Pump Outlet Pressure Sensor
2323	Fuel Rail Temperature Sensor
2348	SAE J1939 Data Link #2
2349	Engine Coolant Pump Outlet Temperature Sensor
2417	Start Aid Injection Control Solenoid
2493	Cylinder #17 Injector
2494	Cylinder #18 Injector
2495	Cylinder #19 Injector
2496	Cylinder #20 Injector
2710	Engine Turbine Speed Sensor
2738	Turbocharger #1 Compressor Inlet Pressure Sensor
2739	Turbocharger #2 Compressor Inlet Pressure Sensor
2740	Turbocharger #3 Compressor Inlet Pressure Sensor
2741	Turbocharger #4 Compressor Inlet Pressure Sensor
2854	Coolant Temperature Control Module
3031	Intake Manifold #2 Pressure Sensor

¹ The CID is a diagnostic code that indicates which circuit is faulty.
² The MID is a diagnostic code that indicates which electronic control module diagnosed the fault.



The following wire pairs must be twisted at least 1 turn per 25mm:

892	&	893
E908	&	E909
E963	&	E964
E965	&	E966
E965	&	E966

WIRE GROUP COLOR DESCRIPTIONS	
[Symbol]	GROUND CIRCUIT
[Symbol]	WIRES THAT HAVE SYSTEM VOLTAGE WHEN THE KEY SWITCH IS OFF
[Symbol]	WIRES THAT HAVE SYSTEM VOLTAGE WHEN THE KEY SWITCH IS ON
[Symbol]	START AND GROUND
[Symbol]	MONITOR CIRCUIT
[Symbol]	ENGINE CONTROL CIRCUIT
[Symbol]	HEATER AND AIR CONDITIONER CIRCUIT
[Symbol]	ENGINE CAN DATA LINK A
[Symbol]	ENGINE CAN DATA LINK B
[Symbol]	OTHER COLOR DESCRIPTIONS
[Symbol]	HIGHWAYS

IDENT	PART NUMBER	CHANGE	LOC	DESCRIPTION
HARNESSES AS:				
E	330-0132	01	B-5 thru E-5	FRONT ENGINE
EL	330-0136	01	E-5	LEFT ENGINE
ER	330-0134	02	C-5	RIGHT ENGINE
J	250-3024	02	D-7	SENSOR GP - SPEED (TIMING, CRANKSHAFT)
LA	330-0151	00	E-7	SENSOR GP - SPEED (SECONDARY TIMING, CAMSHAFT)
LC	330-0153	00	E-7	SENSOR GP - SPEED (TIMING, CRANKSHAFT) INTERCONNECT
LF	330-0154	00	E-7	OIL LEVELS
LH	330-0152	00	E-6	PRELUBRICATION PUMP RELAY SWITCH
P	247-1880	03	E-6 thru E-7 & C-7	UNIT INJECTORS (LEFT AND RIGHT)
RA	330-0149	00	C-7	FUEL CONTROL VALVE AND HPCR POWER MODULE
RC	330-0129	01	C-7	HPCR RAIL TEMPERATURE
RE	330-0179	01	C-7	FUEL TRANSFER
CABLE AS:				
G	330-0138	01	D-6	ALTERNATOR (B-)
GG	330-0139	00	D-6	ALTERNATOR GROUND

THIS SCHEMATIC IS FOR THE 793F OFF-HIGHWAY TRUCK
VOLUME 4 of 4: ENGINE
PART NUMBER: 330-0122, CHANGE: 01, VERSION: -
Components are shown installed on a fully operable machine with the key and engine off, transmission shifted in neutral and with parking brake set.
Refer to the appropriate Service Manual for Troubleshooting, Specifications and Systems Operations.

SYMBOL	DESCRIPTION
[Symbol]	CIRCUIT CONNECTED
[Symbol]	CIRCUIT NOT CONNECTED
[Symbol]	ELECTRICAL CONNECTION TO MOUNTING STRUCTURE
[Symbol]	INTERNAL ELECTRICAL CONNECTION TO MOUNTING OF COMPONENT
[Symbol]	CONNECTOR
[Symbol]	CIRCUIT GROUPING DESIGNATION
[Symbol]	ATTACHMENT CABLE COMPONENT
[Symbol]	SPlice
[Symbol]	BLADE SPlice, RING OR SCREW TERMINAL

ABBREV	COLOR
RD	RED
WH	WHITE
OR	ORANGE
YL	YELLOW
PK	PINK
BK	BLACK
GY	GRAY
PJ	PURPLE
BR	BROWN
GN	GREEN
BU	BLUE