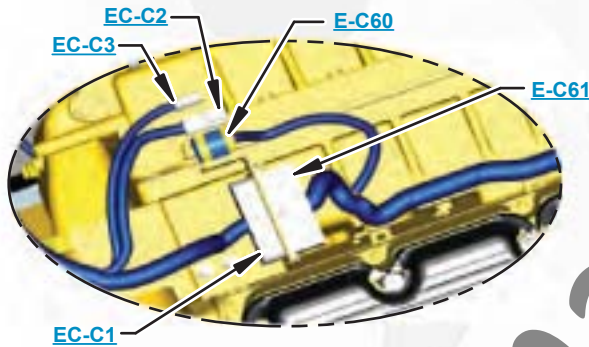


The Bookmarks panel will allow you to quickly navigate to points of interest.

****This document is best viewed at a screen resolution of 1024 X 768.***

To set your screen resolution do the following:
RIGHT CLICK on the **DESKTOP**.
 Select **PROPERTIES**.
CLICK the **SETTINGS TAB**.
MOVE THE SLIDER under **SCREEN RESOLUTION** until it shows **1024 X 768**.
CLICK OK to apply the resolution.

**Due to different monitor sizes and PDF reader preferences there may be some variance in linked schematic locations*



Click on any text that is **BLUE** and underlined. These are hyperlinks that can be used to navigate the schematic and machine views



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VIEW ALL CALLOUTS

When only one callout is showing on a machine view, clicking on this button will make all of the callouts visible. This button is located in the top right corner of every machine view page.

HOTKEYS (Keyboard Shortcuts)		
	FUNCTION	KEYS
	Zoom In	“CTRL” / “+”
	Zoom Out	“CTRL” / “-”
	Fit to Page	“CTRL” / “0” (zero)
	Hand Tool	“SPACEBAR” (hold down)
	Find	“CTRL” / “F”

ELECTRICAL SYMBOLS				
Pressure Switch	Temperature Switch	Level Switch	Flow Switch	Circuit Breaker

BASIC HYDRAULIC COMPONENT SYMBOLS	
Pump or Motor	Variability
Fluid Conditioner	Spring (Adjustable)

[Click here to view the Schematic Symbols and Definitions page](#)



SCHEMATIC SYMBOLS AND DEFINITIONS



VALVES		
ENVELOPES		
One Position	Two Position	Three Position
PORTS		
Two-way	Three-Way	Four-Way
CONTROL		
Normal Position	Shifted Position	Infinite Position
CHECK		
Basic Symbol	Spring Loaded	Shuttle
		Pilot Controlled

INTERNAL PASSAGEWAYS			
FLOW IN ONE DIRECTION	FLOW ALLOWED IN EITHER DIRECTION	PARALLEL FLOW	CROSS FLOW
Infinite Positioning	Two Position	Three Position	

CYLINDERS	
Single Acting	Double Acting

ACCUMULATORS	
Spring Loaded	Gas Charged

PUMPS	
FIXED DISPLACEMENT	
Unidirectional	Bidirectional
VARIABLE DISPLACEMENT NON-COMPENSATED	
Unidirectional	Bidirectional

MOTORS	
FIXED DISPLACEMENT	
Unidirectional	Bidirectional
VARIABLE DISPLACEMENT NON-COMPENSATED	
Unidirectional	Bidirectional

ROTATING SHAFTS	
Unidirectional	Bidirectional

BASIC HYDRAULIC COMPONENT SYMBOLS	
Pump or Motor	Variability
Fluid Conditioner	Spring (Adjustable)
Spring	Pressure Compensation
Control Valves	Line Restriction (Variable)
Restriction	Line Restriction (Fixed)
Line Restriction Variable and Pressure Compensated	2-Section Pump
Attachment	Pump: Variable and Pressure Compensated
Hydraulic Energy Triangles Pneumatic Energy Triangles	

PILOT CONTROL	
RELEASED PRESSURE	
External Return	Internal Return
REMOTE SUPPLY PRESSURE	
Simplified	Complete
	Internal Supply Pressure

COMBINATION CONTROLS						
Solenoid	Solenoid or Manual	Solenoid and Pilot	Solenoid and Pilot or Manual	Servo	Thermal	Detent

LINES	
Crossing	Joining

MEASUREMENT		
Pressure	Temperature	Flow

MANUAL CONTROL					
Push-pull Lever	Manual Shutoff	General Manual	Push Button	Pedal	Spring

FLUID STORAGE RESERVOIRS			
Vented	Pressurized	Return Above Fluid Level	Return Below Fluid Level

HYDRAULIC SYMBOLS - ELECTRICAL							
Transducer (Fluid)	Transducer (Gas / Air)	Generator	Electric Motor	Pressure Switch	Pressure Switch (Adjustable)	Temperature Switch	Electrical Wire

ELECTRICAL SYMBOLS				
Pressure Switch	Temperature Switch	Level Switch	Flow Switch	Circuit Breaker

BASIC ELECTRICAL COMPONENT SYMBOLS	
	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.
	Switch (Normally Closed): A switch that will open at a specified point (temp, press, etc.). No circle indicates that the wire cannot be disconnected from the component.
	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 can do work.
	Magnetic Latch Solenoid: An electrical component that is activated by electricity and held latched by a permanent magnet. It has two coils (latch and unlatch) that make 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.

HARNES AND WIRE SYMBOLS	
Wire, Cable, or Harness Assembly Identification: Includes Harness Identification Letters and Harness Connector Serialization Codes (see sample).	
Part Number: for Connector Plug Plug Receptacle Pin or Socket Number	
Harness Identification Letter(s): (A, B, C, AA, AB, AC, ...)	
Harness Connector Serialization Code: The "C" stands for "Connector" and the number indicates which connector in the harness (C1, C2, C3, ...)	
Fuse (5 Amps) Component Part Number Harness identification code: This example indicates wire group 325, wire 135 in harness "AG". Wire Gauge Wire Color	
Deutsch connector: Typical representation of a Deutsch connector. The plug contains all sockets 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.	

Schematic

730C Articulated Truck 730C Ejector Articulated Truck Electrical System

**730C:
TFF1-UP**

**730C EJ:
TFH1-UP**

**Volume 1 of 3: Cab Wiring
Volume 2 of 3: Engine and Chassis Wiring
Volume 3 of 3: Transmission Wiring**

COMPONENT TABLE



Component Location - Volume 1		
Component	Schematic Location	Machine Location
12V Power Socket	G-10	1
Actuator - Water Valve	B-4	2
Alarm - Action	H-10	3
Block - Fuse	J-11	4
Coil - MSS Exciter	B-13	5
Control - CMPD	G-13	6
Control - Product Link	F-4	7
Convertor - 24V/12V	C-1	8
Display - Indicator	F-13	9
ECM - Chassis	J-4	10
ECM - Monitor	H-7	11
ECM - Transmission	J-3	12
Ground - Dash	A-13	13
Ground - Fuse	G-6	14
Ground - Main Cab #1	B-2	15
Ground - Main Cab #2	B-2	16
Key Reader - MSS	B-7	17
Lever - Shift/Hoist Quad	F-12	18
Lighter - Cigar	E-13	19
Module - Flasher	E-9	20
Module - Intermitent Wiper Delay	A-8	21
Motor - Air Seat	G-13	22
Motor - Blower	A-4	23
Motor - Washer (Front)	C-5	24
Motor - Washer (Rear)	C-6	25
Motor - Wiper (Front)	B-6	26
Motor - Wiper (Rear)	H-16	27
Relay - Headlamp	A-8	28
Relay - Main	H-11	29
Resistor - CAN A (J1939)	F-4	58
Resistor - CAN A2	B-8	30
Resistor - CAN B2	F-4	59
Resistor - HVAC	B-4	31
Resistor - IAC Override	B-1	32
Sensor - Throttle	F-12	33
Switch - A/C	D-16	34
Switch - Axle Lock	D-16	35
Switch - Brake Pedal Assembly	E-11	36
Switch - Column	B-7	37
Switch - CPS Force Regen	J-15	38
Switch - Differential Lock	A-8	39
Switch - Dimmer	B-16	40
Switch - Dome	B-9	41
Switch - Fan Speed	E-13	42
Switch - Hazard	C-16	43
Switch - Head Side Lamp	B-16	44
Switch - Heated Mirror	D-16	45
Switch - Hood	E-16	46
Switch - Horn	A-8	47
Switch - Key Start	B-13	48
Switch - Long Range Lamps	J-15	49
Switch - Mirror (LH)	I-16	50
Switch - Mirror (RH)	I-16	51
Switch - Parking Brake	E-12	52
Switch - Retarder	A-8	53
Switch - Secondary Steering	C-16	54
Switch - Temperature	A-3	55
Switch - Wiper (Rear)	C-16	56
Switch - Worklamp	B-16	57

Component Location - Volume 2		
Component	Schematic Location	Machine Location
Actuator - ARD Air Flow Control	D-6	58
Alternator	G-3	59
Bar - Bus	I-2	60
Battery (2)	G-2	61
Battery (4) - Cold Start ATCH	G-3	62
Block - Junction (Alternator)	I-1	63
Breaker - Alternator	I-1	64
Breaker - CEM Fan	I-1	65
Breaker - Engine ECM	I-1	66
Breaker - Main #1	I-1	67
Breaker - Main #2	I-1	68
Breaker - Pump Tank	I-1	69
Coil - ARD Ignition (Primary)	C-5	70
Control - CEM Fan	F-8	71
Control - CEM Fan Voltage Protection	E-8	72
Control - Voltage (24V)	D-4	73
ECM - Aftertreatment	D-11	74
ECM - DEF	F-1	75
ECM - Engine	J-16	76
Ground - Alternator	G-3	110
Ground - CEM	C-5	77
Ground - Engine Block	G-2	78
Ground - Frame #1	C-7	79
Ground - Frame #2	G-7	80
Ground - Frame #3	E-13	81
Ground - Frame #4	E-4	82
Ground - Steering Motor	H-3	83
Heater - ARD Fuel Nozzle	D-6	84
Heater - Injector Line	D-4	85
Heater - Line Return To Tank	D-4	86
Heater - Suction Line	D-4	87
Horn - High	F-8	88
Horn - Low	F-8	89
Module - Aftertreatment ID	D-5	90
Motor - Fuel Priming Pump	H-6	91
Motor - Hood Actuator	G-8	92
Motor - Secondary Steering	H-3	93
Motor - Starter	G-8	94
Probe - TDC	G-14	95
Pump - Autolube	A-5	96
Pump - DEF Dosing	C-4	97
Relay - ARD Fuel Nozzle Heater	B-5	98
Relay - CEM Fan	I-3	99
Relay - DEF Line Heater	E-4	100
Relay - Main Tank	E-4	101
Relay - Secondary Steering	I-2	102
Relay - Start	H-4	103
Resistor - CAN 2 Terminating A2	B-8	104
Resistor - CAN 2 Terminating A3	B-8	105
Resistor - Terminating A	F-4	106
Resistor - Terminating B (Engine)	F-15	107
Resistor - Terminating C2	C-4	108
Sender - Fuel Level	B-3	109
Sensor - Aftertreatment Secondary Air Pressure	B-5	111
Sensor - Air Filter Differential Pressure	I-6	112
Sensor - Air Inlet Temperature (Filter)	I-6	113
Sensor - ARD Fuel Pressure #1 (Pilot)	D-5	114
Sensor - ARD Fuel Pressure #2 (Main)	D-5	115
Sensor - Barometric Pressure	H-13	116
Sensor - Charge Air Cool Temperature (Out)	H-13	117
Sensor - Coolant Temperature	G-10	118
Sensor - DPF Delta Pressure	B-5	119
Sensor - DPF Intake Pressure	B-5	120
Sensor - DPF Temperature Analog (Intake)	C-5	121
Sensor - Engine Oil Pressure	H-13	122
Sensor - Engine Speed #2 (CRANK)	G-14	123
Sensor - Engine Speed #2 (CAM)	F-15	124
Sensor - Fuel Pressure (After)	I-6	125
Sensor - Fuel Temperature	I-6	126
Sensor - Hydraulic Oil Temperature	J-3	127
Sensor - Intake Manifold Pressure	H-13	128
Sensor - NRS Differential Pressure	I-13	129
Sensor - NRS Intake Pressure	I-13	130
Sensor - NRS Temperature	H-13	131
Sensor - Oil Temperature	G-7	132
Sensor - SCR Nox (Inlet)	F-4	133
Sensor - SCR Nox (Outlet)	F-4	134
Sensor - SCR Temperature (Inlet)	C-5	135
Solenoid - A/C Compressor Clutch	H-5	136
Solenoid - ARD Fuel Control Actuator #1	B-5	137
Solenoid - ARD Fuel Control Actuator #2	D-5	138
Solenoid - Brake 1&6	H-10	139
Solenoid - DEF Injector	D-5	140
Solenoid - Demand Fan	F-9	141
Solenoid - Fuel Priming	H-6	142
Solenoid - Injectors 1-6	H-10	143
Solenoid - NRS Flow Balance Valve Actuator (Down)	I-13	144
Solenoid - NRS Valve Actuator	H-13	145
Solenoid - Start Aid	G-7	146
Strap - Ground (Cab to Frame)	C-15	147
Suppressor - Arc (HVAC)	H-5	148
Suppressor - Arc (Secondary Steering)	I-2	149
Switch - A/C Pressure	G-5	150
Switch - Disconnect	G-2	151
Switch - Engine Shutdown	I-4	152
Switch - Fuel Priming (Manual)	H-6	153
Switch - Hydraulic Tank Filter Bypass	J-3	154
Switch - XMSN Filter Bypass	H-6	155
Unit - DEF Manifold Header	C-4	156
Valve - Coolant Diverter	D-4	157

Component Location - Volume 3		
Component	Schematic Location	Machine Location
Accelerometer	A-3	158
Alarm - Backup	E-7	159
Camera	D-7	160
Resistor - Terminating A	A-3	161
Sensor - Body Up	D-7	162
Sensor - Brake Charge Pressure #1	A-7	163
Sensor - Brake Charge Pressure #2	B-7	164
Sensor - Ejector Blade Retract (730EJ ONLY)	D-7	165
Sensor - Engine Speed (XMSN)	C-4	166
Sensor - Front Axle Speed (RH)	C-5	168
Sensor - Front Differential Speed Speed (LH)	C-5	167
Sensor - IAD Accumulator Pressure	A-4	169
Sensor - Parking Brake Pressure	B-7	170
Sensor - Rear Axle Speed (RH)	C-7	172
Sensor - Rear Differential Speed (LH)	C-7	171
Sensor - T/C Oil Temperature	B-4	173
Sensor - XMSN Oil Temperature	B-4	174
Sensor - XMSN Out Speed #1	C-4	175
Sensor - XMSN Out Speed #2	C-4	176
Sensor - XMSN T/C Output Speed	C-4	177
Solenoid - Cross Axle Lock (Front)	A-3	178
Solenoid - Cross Axle Lock (Center/Rear)	C-6	179
Solenoid - Demand Fan	B-7	180
Solenoid - Elect/Hyd Brake Charge	A-7	181
Solenoid - Interaxle Differential Lock	A-4	182
Solenoid - Output Transfer Gear Lube Oil Supply	A-4	183
Solenoid - Lock Up Clutch	B-4	184
Solenoid - Lower Valve	E-3	185
Solenoid - Parking Brake	B-7	186
Solenoid - Raise Valve	E-3	187
Solenoid - XMSN Clutch #1	B-4	188
Solenoid - XMSN Clutch #2	B-4	189
Solenoid - XMSN Clutch #3	B-4	190
Solenoid - XMSN Clutch #4	B-4	191
Solenoid - XMSN Clutch #5	B-4	192
Switch - Auto Lube	C-6	193
Switch - Filter Bypass	A-6	194
Switch - Low Oil Pressure	A-6	195
Switch - Steering Pressure	B-7	196

Connector Location - Volume 1	
Connector Number	Schematic Location
CONN 1	J-1
CONN 2	J-1
CONN 3	I-1
CONN 4	H-1
CONN 5	G-1
CONN 6	F-1
CONN 7	E-1
CONN 8	D-1
CONN 9	B-13
CONN 10	G-14
CONN 11 To CB Radio	I-14
CONN 12	I-14
CONN 13	A-10
CONN 14	G-12
CONN 15	C-7
CONN 16	C-8
CONN 17	D-8
CONN 18	E-7
CONN 19	F-8
CONN 20 Service Connector	G-8
CONN 21 ET Connector	G-8
CONN 22	H-8
CONN 23	B-2

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

Connector Location - Volume 2	
Connector Number	Schematic Location
CONN 1	A-8
CONN 2	F-16
CONN 3	E-16
CONN 4	D-16
CONN 5	A-7
CONN 24	B-8, F-16
CONN 25	D-14
CONN 26	D-12
CONN 27	D-12
CONN 28	F-12
CONN 29	G-14
CONN 30	G-14
CONN 31	G-12
CONN 32	H-12
CONN 33	H-12
CONN 34	C-8
CONN 35	F-10
CONN 36	F-10
CONN 37	H-10
CONN 38	C-7
CONN 39	H-7
CONN 40	I-7
CONN 41	I-5
CONN 42	J-5
CONN 43	J-5
CONN 44	B-3
CONN 45	E-4
CONN 46	F-4
CONN 47	J-2
CONN 61	D-5

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

Connector Location - Volume 3	
Connector Number	Schematic Location
CONN 6	C-1
CONN 7	C-1
CONN 8	B-1
CONN 10	E-1
CONN 48	B-5
CONN 49	B-5
CONN 50	C-6
CONN 51	D-7
CONN 52	E-6
CONN 53	C-4
CONN 54	D-4
CONN 55	D-4
CONN 56	E-4
CONN 57	E-4
CONN 58	A-3
CONN 59	B-3
CONN 60 Fan Speed Tester	A-2

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

Component Identifiers (CID ¹) Module Identifier (MID ²)	
Transmission ECM (MID No. 081)	
Chassis ECM (MID No. 087)	
CID	Component
0041	8 Volt DC Supply Voltage High
0070	Parking Brake Switch Erratic
0096	Fuel Level Sensor Voltage High
0144	Backup Alarm Relay Open Circuit
0168	Electrical System Voltage Erratic
0177	Transmission Oil Temperature Sensor Voltage High
0190	Engine Speed Sensor Erratic
0247	SAE J1939 Data Link Abnormal Update
0248	CAT Data Link Abnormal Update
0262	5 Volt Sensor DC Power Supply Voltage Low
0271	Action Alarm Voltage High
0298	Service Brake Pedal Switch Erratic
0420	Secondary Steering Relay Voltage High
0444	Starter Motor Relay Open Circuit
0585	Transmission Output Speed Sensor #1 Abnormal
0590	Engine Control Module Special Instruction
0600	Hydraulic Oil Temperature Sensor Voltage High
0672	Torque Converter Output Speed Sensor Abnormal
0673	Transmission Output Speed Sensor #2 Abnormal
0679	Torque Converter Lockup Clutch Solenoid Open Circuit
0681	Parking Brake Solenoid Voltage High
0702	Transmission Gear Lever Selector Sensor (Switch) Abnormal
0709	Transmission Lockup Clutch Solenoid Not Identifiable
0718	Transmission System Out Of Calibration
0724	Hoist Raise Solenoid Voltage High
0725	Hoist Lower Solenoid Current High
0773	Hoist Lever Sensor Voltage High
0826	Torque Converter Oil Temperature Sensor Voltage High
1273	Chassis Control Module Special Instruction
1292	Gear Hold Switch Voltage Low
1326	ECM Location Code Erratic
1401	Transmission Solenoid 1 Voltage High
1402	Transmission Solenoid 2 Not Identifiable
1404	Transmission Solenoid 4 Not Identifiable
1405	Transmission Solenoid 5 Voltage High
1482	10 Volt Sensor DC Power Supply Voltage High
1482	10 Volt Sensor DC Power Supply Voltage Low
1960	Ignition Key Reader Abnormal Update
2418	Ejector Blade Position Sensor Voltage High
2707	Output Transfer Gear (OTG) Oil Temperature Sensor Voltage Low
2742	Brake Accumulator Charging Solenoid Voltage High
2976	Parking Brake Oil Pressure Sensor Abnormal
2987	Brake Charge Pressure Sensor #1 Voltage High
2988	Brake Charge Pressure Sensor #2 Abnormal
3453	Machine Cooling Fan Solenoid Out Of Calibration
3602	Backlight Adjust Switch Voltage Low
4385	Front Parking Brake Solenoid

Event Codes Transmission & Chassis Control	
Event Code	Condition
0047	Transmission Abuse Warning (Level I)
0049	Coasting in Neutral Warning (Level II)
0108	Machine Upshift To Prevent Engine Overspeed (Level II)
0155	High Torque Converter Oil Temperature (Level II)
0179	Alternator Not Charging (Level II)
0273	Machine Operation Attempted Using An Invalid Key (Level II)
0284	Low Brake Accumulator Pressure (Level II) [Variation 1]
0327	Low Output Transfer Gear (OTG) Pressure (Level III)
0328	Output Transfer Gear (OTG) Filter Plugged (Level III)
0329	Transmission Filter Plugged (Level II)
0330	Transmission Output Speed Mismatch (Level III)
0490	Park Brake Applied While Shift Lever Not In Neutral (Level II)
0542	Low Steering Pump Pressure (Level II)
0573	High Output Transfer Gear (OTG) Oil Temperature (Level II)
0627	Parking Brake Applied With Machine In Motion (Level II)
0667	Machine Overspeed (Level II)
0706	Park Brake Disabled Due to System Fault (Level III)
0716	Conflicting Brake Pressure Information (Level I)
0763	Trip Data Memory Low (Level I)
0764	Trip Data Memory Full (Level I)
0861	Clock Manual Alignment Required (Level I)
0877	High Transmission Oil Temperature (Level II)
0878	High Hydraulic Oil Temperature (Level II)
0879	Hydraulic Tank Oil Filter Plugged (Level II)
1023	Ejector Blade Not Responding To Command (Level II)
1132	Inconsistent Configuration Detected (Level I)
1320	Real Time Clock Incorrect (Level I)
1449	Low Brake Accumulator Precharge Gas Pressure
1507	Real Time Clock Master Not Secured (Level I)
1508	Front Parking Brake Pressure Not Responding to Command

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.

Event Codes Engine Control	
Event Code	Condition
E0096	High Fuel Pressure
E0114	Aftertreatment #1 Diesel Exhaust Fluid Dosing Unit Input Lines Not Purged
E0198	Low Fuel Pressure
E0199	Low Coolant Temperature
E0225	Engine Overcrank
E0232	High Fuel/Water Separator Water Level
E0263	Low Engine Coolant Flow
E0265	User Defined Shutdown
E0268	Unexpected Engine Shutdown
E0360	Low Engine Oil Pressure
E0361	High Engine Coolant Temperature
E0362	Engine Overspeed
E0363	High Fuel Supply Temperature
E0441	Idle Elevated to Increase Battery Voltage
E0443	High Auxiliary Pressure
E0445	High Auxiliary Temperature
E0488	Engine Intake Valve Actuation System Oil Pressure
E0539	High Intake Manifold Air Temperature
E0583	High Air Inlet #1 Differential Pressure
E0593	Aftertreatment Insufficient Temperature to Complete Regeneration
E0678	Ground Level Shutdown
E0861	Clock Manual Alignment Required
E0930	High Aftertreatment #1 SCR Dosing Reagent Pressure
E0931	Low Aftertreatment #1 SCR Dosing Reagent Pressure
E0946	High Aftertreatment #1 SCR Catalyst Intake Gas Temperature
E0947	Low Aftertreatment #1 SCR Catalyst Intake Gas Temperature
E0954	Low Aftertreatment #1 SCR Catalyst Reagent Tank #1 Level
E0960	High Aftertreatment #1 SCR Catalyst Reagent Tank #1 Temperature
E0991	DPF Active Regeneration Inhibited Due to Permanent System Lockout
E0992	DPF Active Regeneration Inhibited Due to Temporary System Lockout
E0993	DPF Active Regeneration Inhibited Due to Inhibit Switch
E0995	High DPF #1 Soot Loading
E0997	High DPF #1 Ash Loading
E1008	High DPF #1 Intake Temperature
E1014	Low DPF #1 Intake Temperature
E1025	Aftertreatment #1 Failed to Ignite
E1026	Aftertreatment #1 Loss of Combustion
E1036	High Crankcase Pressure
E1040	ARD Manually Disabled
E1041	ARD Air Pressure Control Actuator Not Responding to Command
E1045	Low Intake Manifold Pressure
E1050	High Aftertreatment #1 Fuel Pressure #1
E1051	High Aftertreatment #1 Fuel Pressure #2
E1052	Low Aftertreatment #1 Fuel Pressure #1
E1053	Low Aftertreatment #1 Fuel Pressure #2
E1092	High EGR Temperature
E1093	Low EGR Differential Pressure
E1094	High EGR Differential Pressure
E1095	Low EGR Mass Flow Rate
E1096	High EGR Mass Flow Rate
E1101	Intake Valve Actuation System Oil Pressure #1 Not Responding
E1132	Inconsistent Configuration Detected
E1154	Low DPF #1 Intake Pressure
E1156	High DPF #1 Intake Pressure
E1170	Low Aftertreatment #1 Secondary Air Pressure
E1171	Engine Idle Shutdown Occurred
E1172	Engine Idle Shutdown Pending
E1190	Low Aftertreatment Cooling Fan Speed
E1217	Delayed Engine Shutdown Override
E1239	DPF #1 Conditions Not Met for Active Regeneration
E1300	Aftertreatment Regeneration Cannot Start Due to Low Engine Temperature
E1300	Aftertreatment Regeneration Cannot Start Due to Low Engine Temperature
E1301	Aftertreatment Regeneration Cannot Start Due to System Fault
E1302	Aftertreatment Regeneration Cannot Start Due to Conditions Not Met
E1305	Initial Assembly Aftertreatment #1 Procedure Required
E1309	Low Aftertreatment #1 SCR Catalyst Conversion Efficiency
E1364	Aftertreatment 1 Diesel Exhaust Fluid Concentration : Low
E1365	Aftertreatment 1 Diesel Exhaust Fluid Concentration : High
E1370	Aftertreatment #1 Diesel Exhaust Fluid Dosing Unit Loss of Prime
E1389	Aftertreatment #1 SCR Operator Inducement
E1398	Low Aftertreatment #1 SCR Catalyst Reagent Tank #1 Temperature
E1407	High Aftertreatment #1 Intake O2 Concentration
E1408	High Aftertreatment #1 Outlet O2 Concentration
E1410	Invalid Aftertreatment #1 SCR Conversion Efficiency
E1427	Aftertreatment #1 SCR Dosing Pump Temperature Not Responding
E1430	High Aftertreatment #1 Diesel Exhaust Fluid Controller Temperature
E1431	Invalid Aftertreatment #1 Intake NOx Level
E1432	Aftertreatment #1 Outlet #1 NOx Level
E1441	Aftertreatment #1 Diesel Exhaust Fluid Tank Temperature Not Responding
E1465	Aftertreatment #1 SCR Desulfation Too Frequent
E1466	Operator Forced Shutdown with High Exhaust Temperature
E2143	Low Engine Coolant Level

Resistor Specifications		
Part No.	Component Description	Resistance (Ohms) ¹
167-7801	IAC Override	390 ± 5%
257-5029	HVAC	Low to Medium(1) Speed (1.3) Medium(1) to Medium(2) Speed (0.8) Medium(2) to High Speed (0.4)
174-3016	CAN Data Link	120 ± 10%

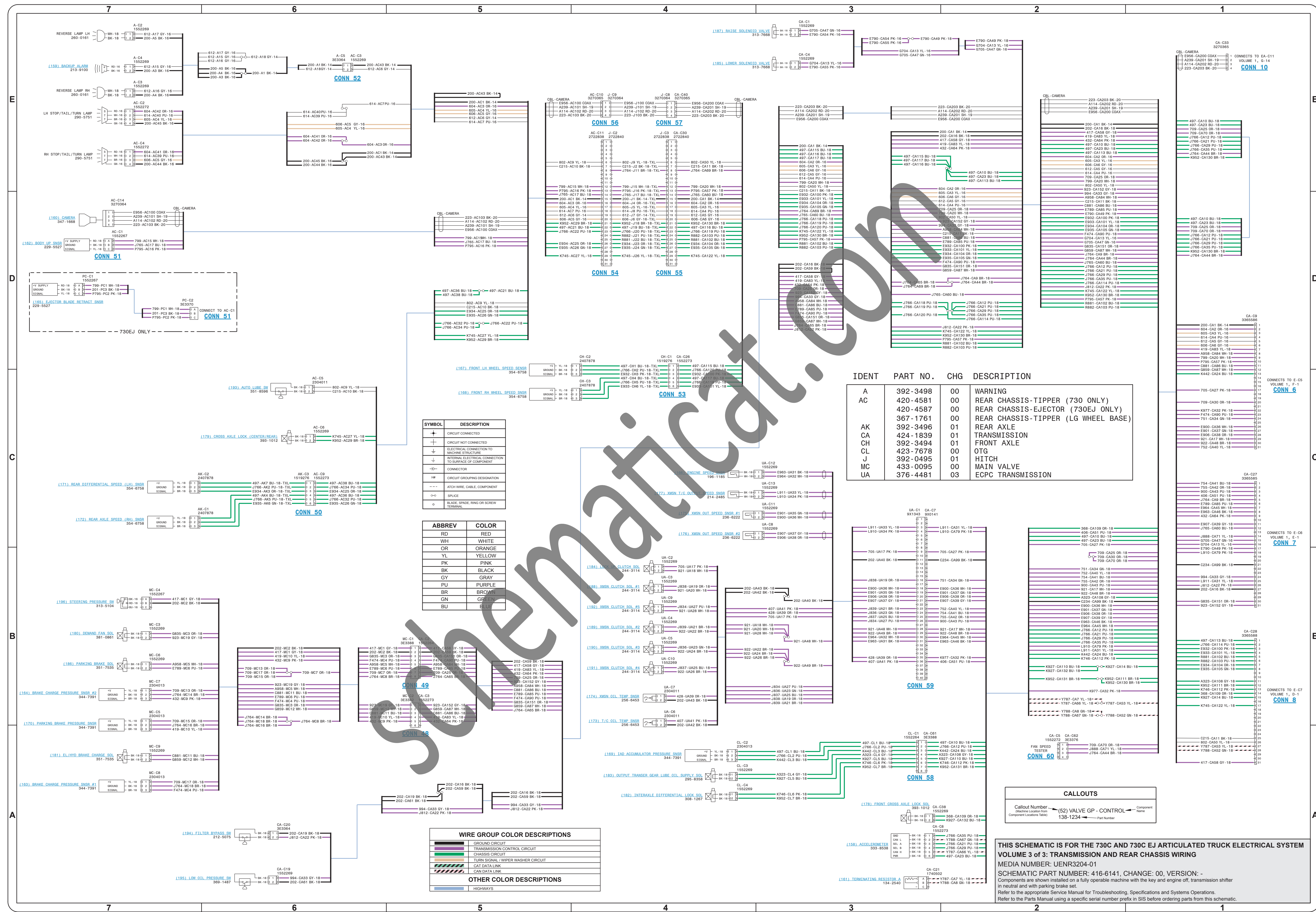
¹ At room temperature unless otherwise noted.

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Related Electrical Service Manuals

Title	Form Number
Cross Reference for Electrical Connectors:	REHS0970
Alternator: 344-5081	SENR4130
Starting Motor: 348-7651	SENR3860
Engine Control:	UENR0955

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IDENT	PART NO.	CHG	DESCRIPTION
A	392-3498	00	WARNING
AC	420-4581	00	REAR CHASSIS-TIPPER (730 ONLY)
AC	420-4587	00	REAR CHASSIS-EJECTOR (730EJ ONLY)
AK	367-1761	00	REAR CHASSIS-TIPPER (LG WHEEL BASE)
CA	392-3496	01	REAR AXLE TRANSMISSION
CA	424-1539	01	REAR AXLE TRANSMISSION
CL	423-7678	00	OTG
J	392-0495	01	HITCH
LC	433-0095	00	MAIN VALVE
MC	376-4481	03	ECPC TRANSMISSION

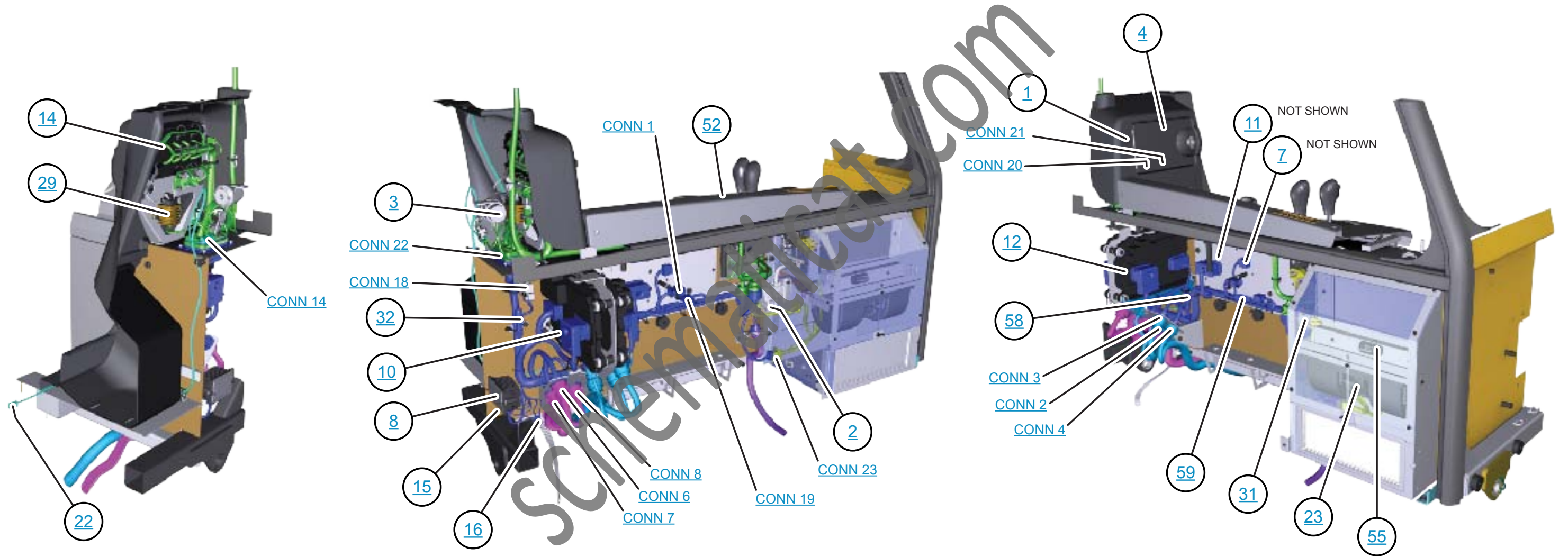
SYMBOL	DESCRIPTION
+	CIRCUIT CONNECTED
-	CIRCUIT NOT CONNECTED
+	ELECTRICAL CONNECTION TO BROWNE STRUCTURE
-	INTERNAL ELECTRICAL CONNECTION TO BROWNE OF COMPONENT
+	CONNECTOR
MF	CIRCUIT GROUPING DESIGNATION
---	ATCH WIRE, CABLE, COMPONENT
o	SPLICE
o	SLACK SPACE, RING OR SCREW TERMINAL

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

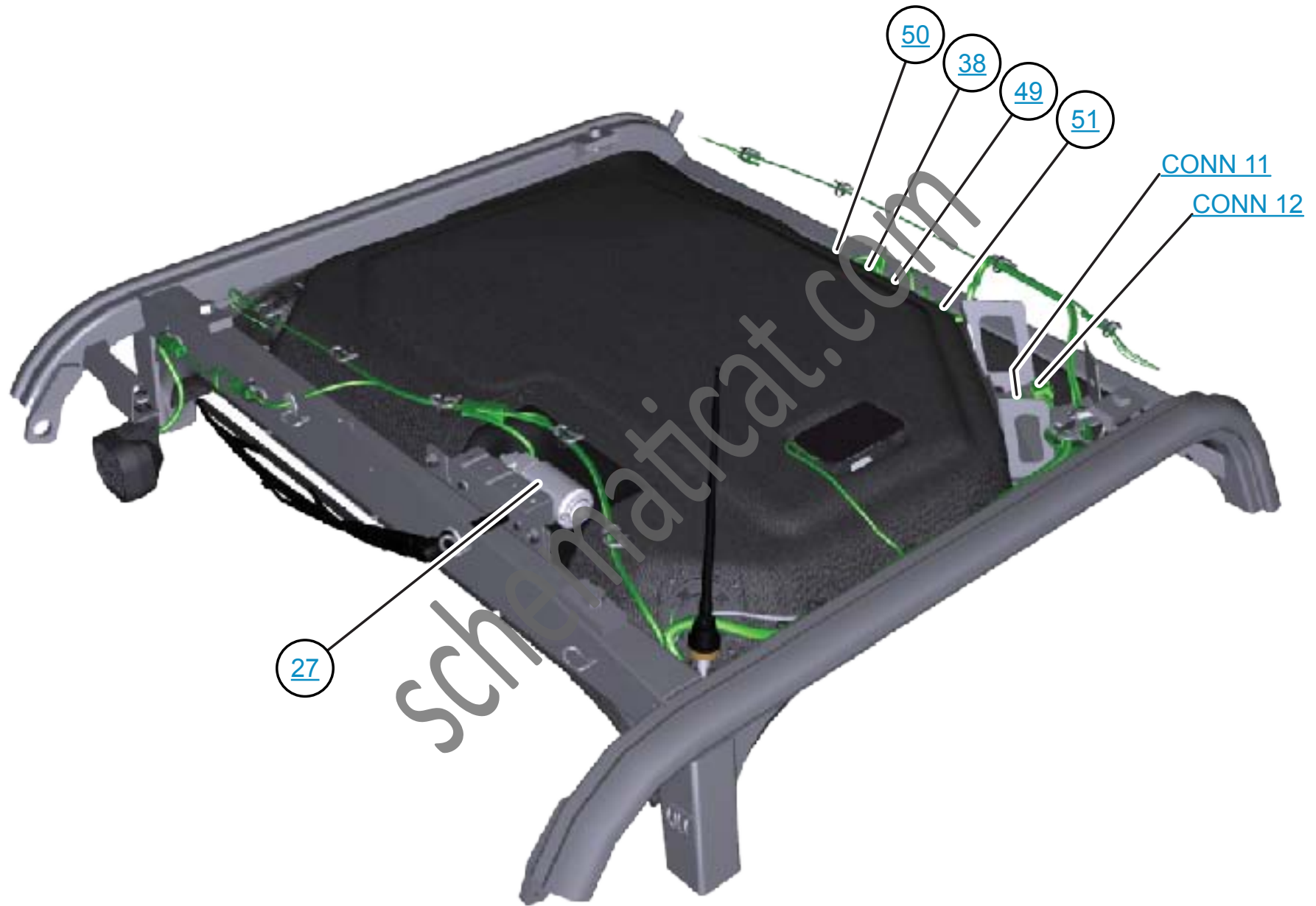
WIRE GROUP COLOR DESCRIPTIONS	
[Solid Line]	GROUNDING CIRCUIT
[Dashed Line]	TRANSMISSION CONTROL CIRCUIT
[Dotted Line]	CHASSIS CIRCUIT
[Dash-dot Line]	TURK SIGNAL, UPPER WASHER CIRCUIT
[Diagonal Line]	CAT DATA BK
[Horizontal Line]	CAN DATA BK
[Vertical Line]	OTHER COLOR DESCRIPTIONS
[Wavy Line]	INSIDWAYS

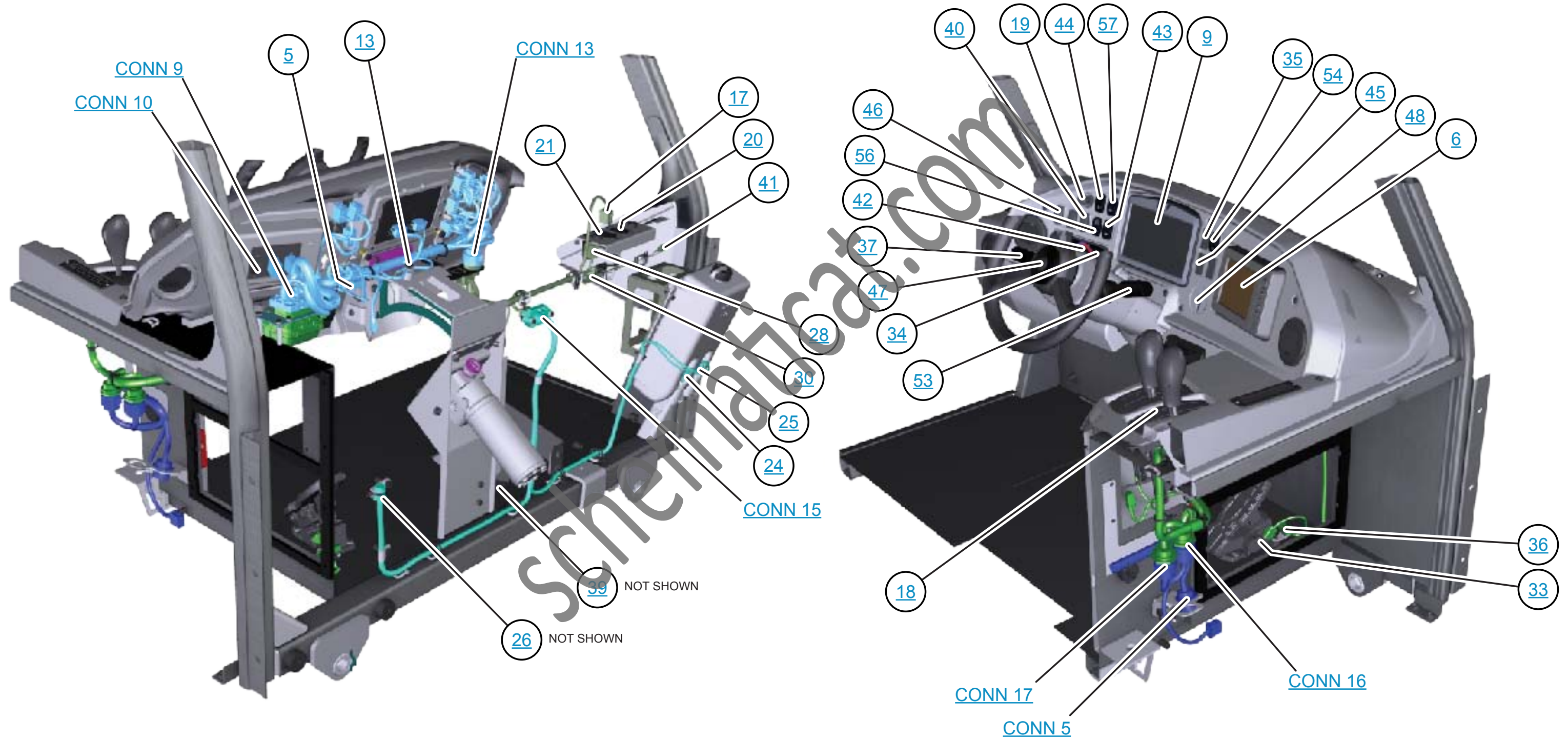
CALLOUTS		
Callout Number	(52) VALVE GP - CONTROL	Component Name
Minimum Location		
Component Location	138-1234	Part Number

THIS SCHEMATIC IS FOR THE 730C AND 730C EJ ARTICULATED TRUCK ELECTRICAL SYSTEM
VOLUME 3 of 3: TRANSMISSION AND REAR CHASSIS WIRING
MEDIA NUMBER: UENR3204-01
SCHEMATIC PART NUMBER: 416-6141, CHANGE: 00, VERSION: -
 Components are shown installed on a fully operable machine with the key and engine off, transmission shifter in neutral and parking brake set.
 Refer to the appropriate Service Manual for Troubleshooting, Specifications and Systems Operations.
 Refer to the Parts Manual using a specific serial number prefix in SIS before ordering parts from this schematic.

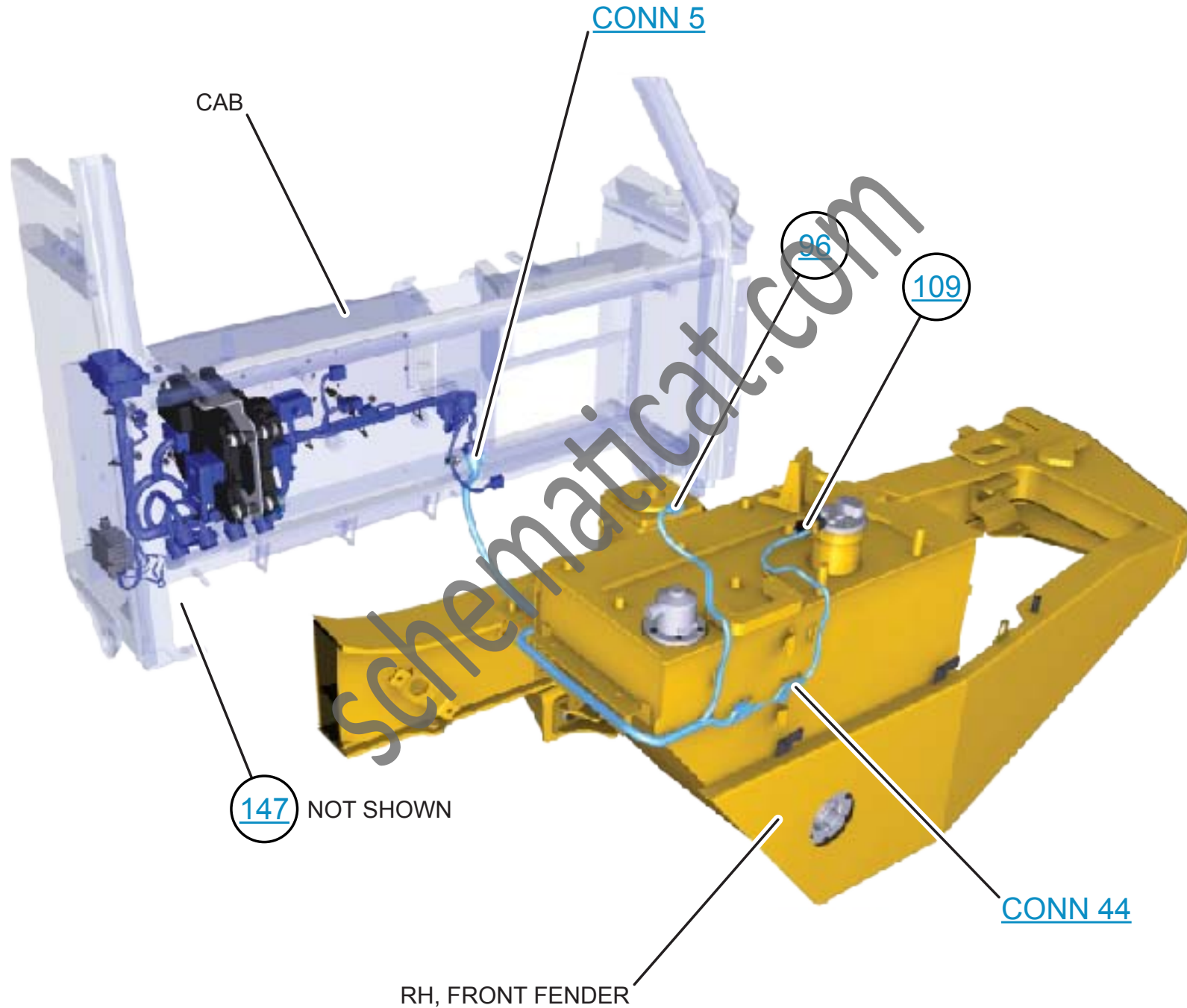


HEADLINER WIRING

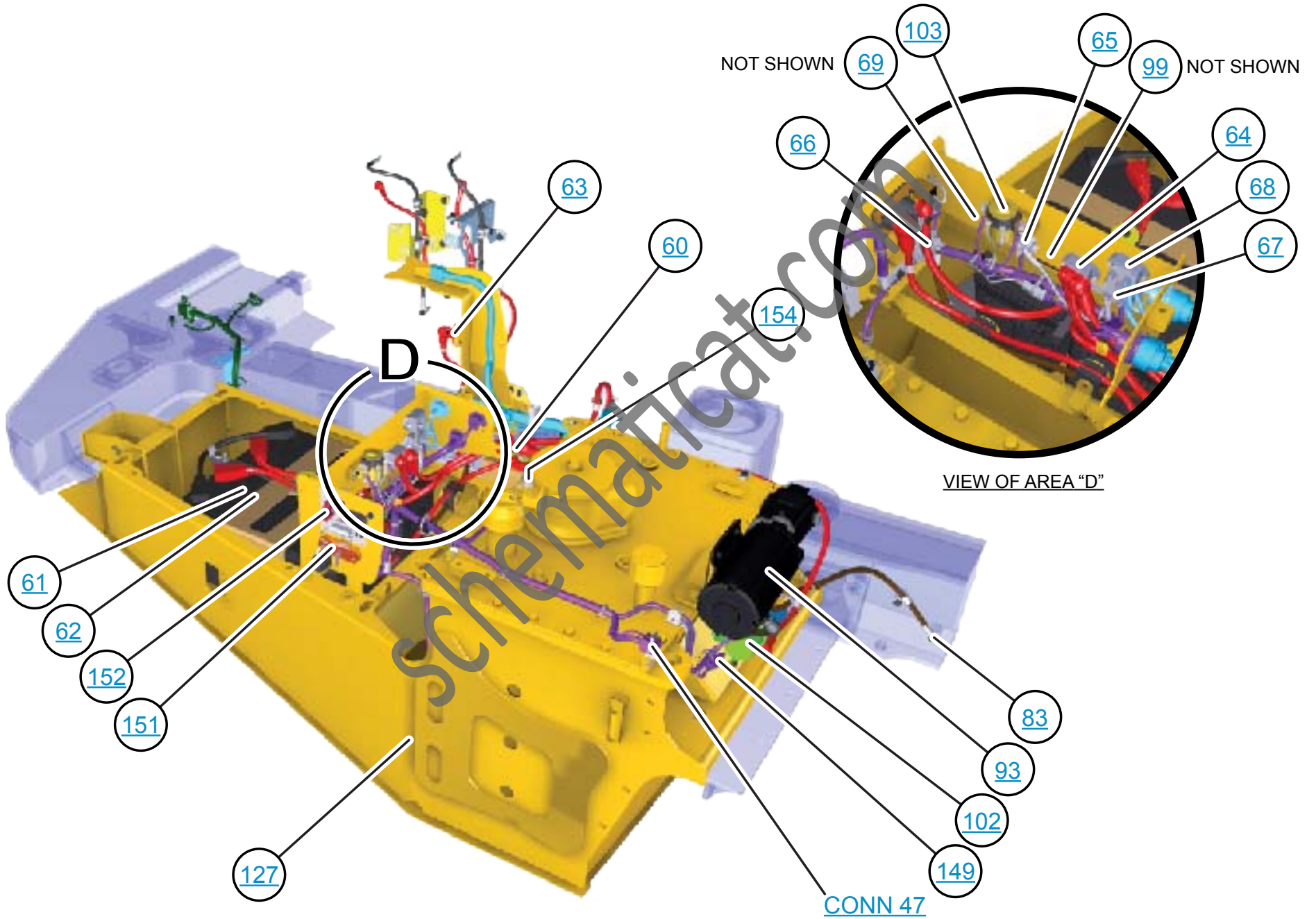




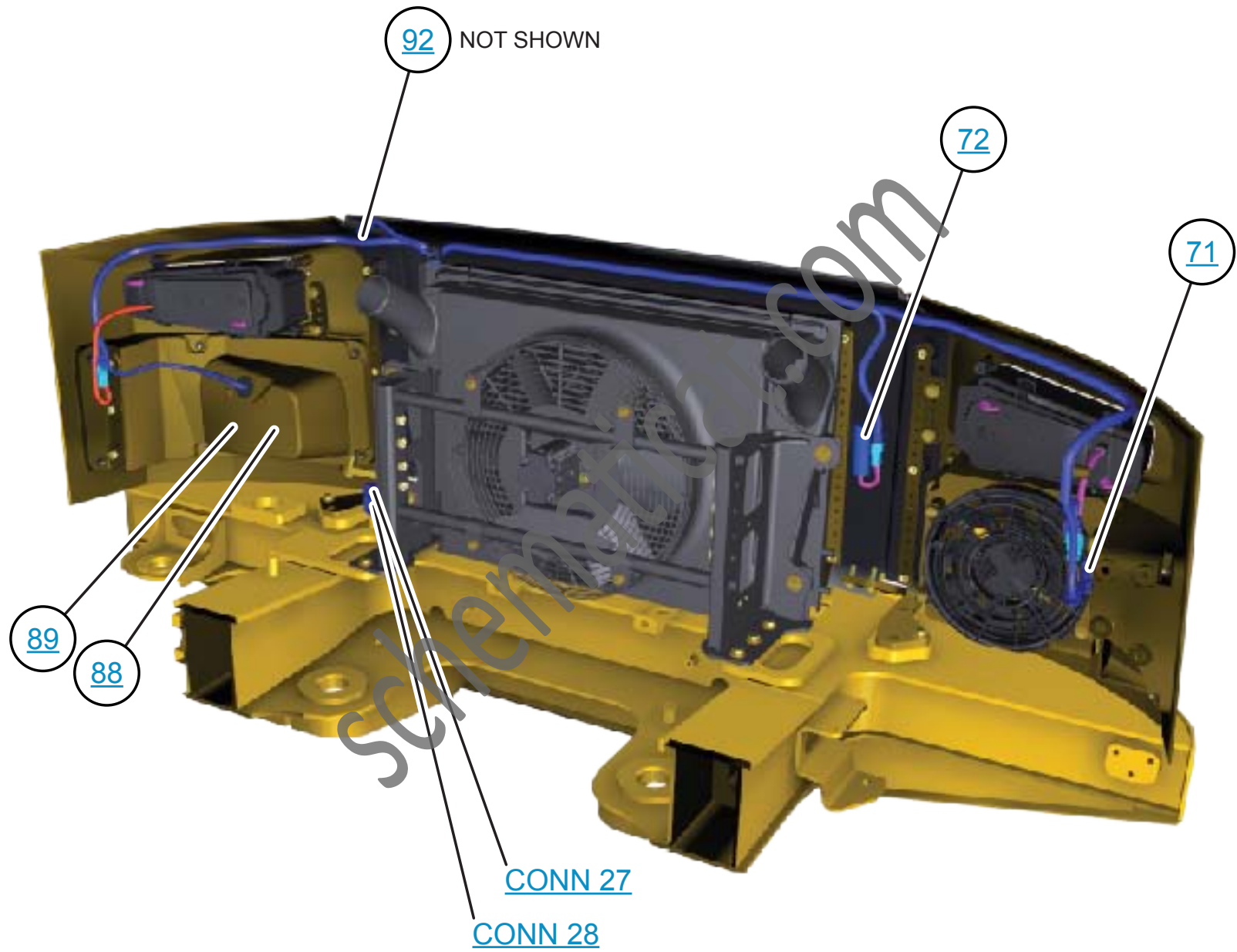
RIGHT FENDER WIRING

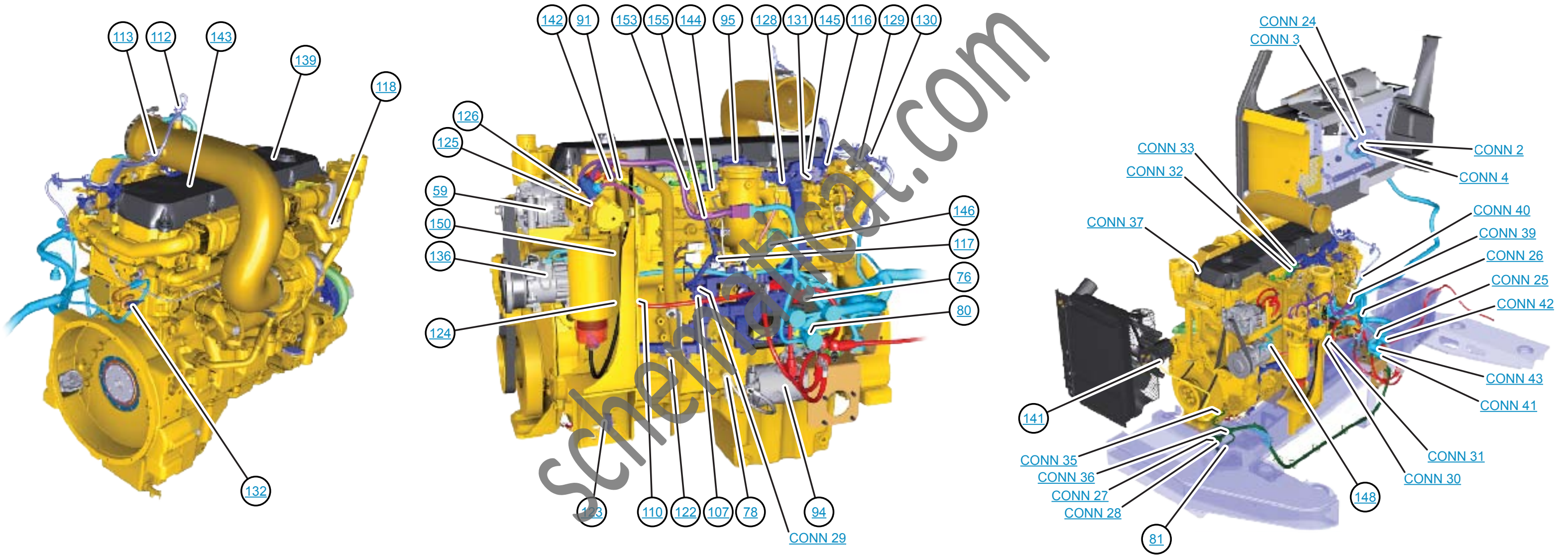


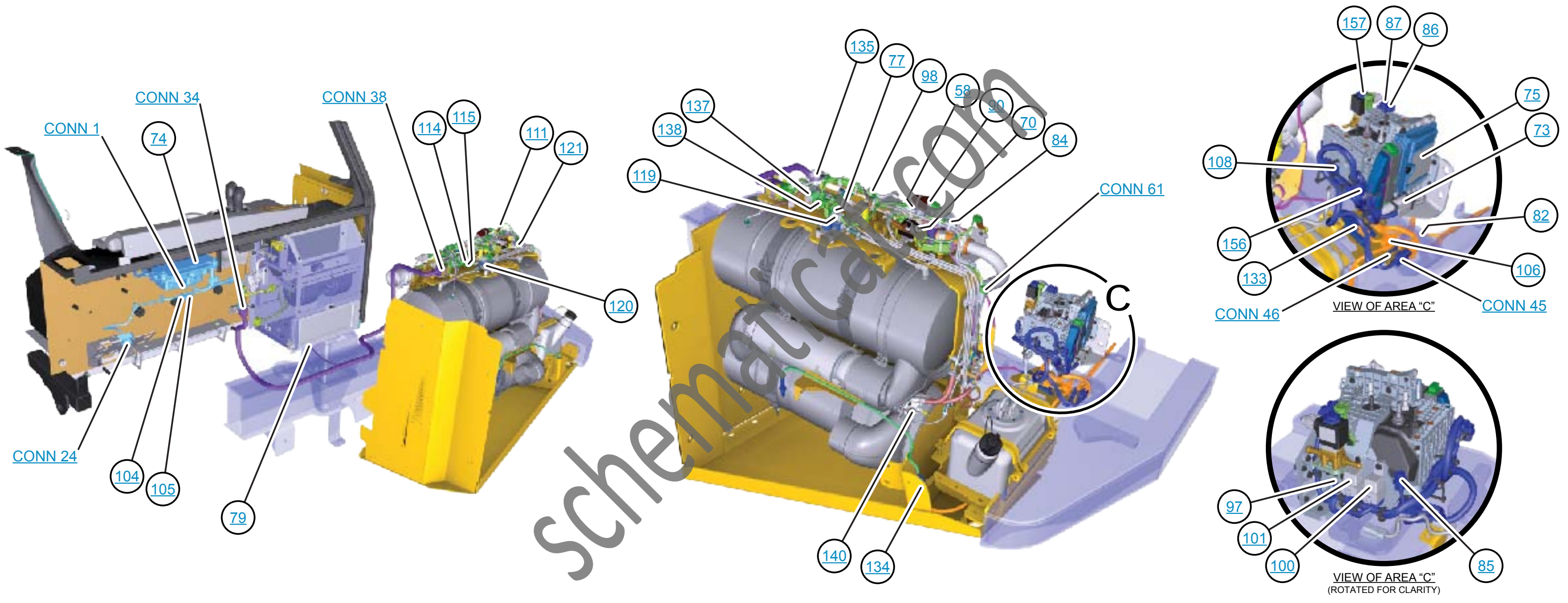
LEFT FENDER WIRING



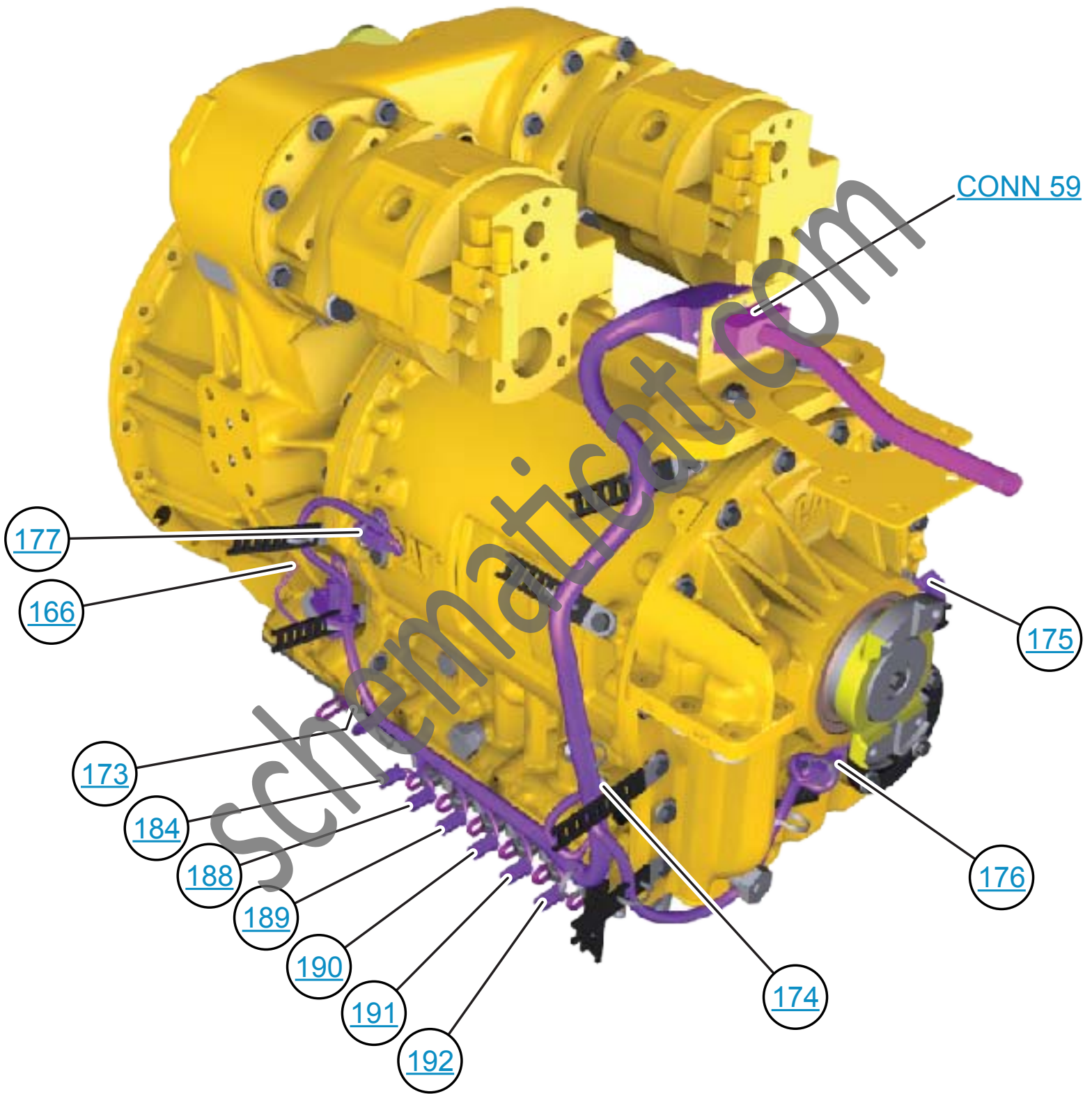
HOOD WIRING



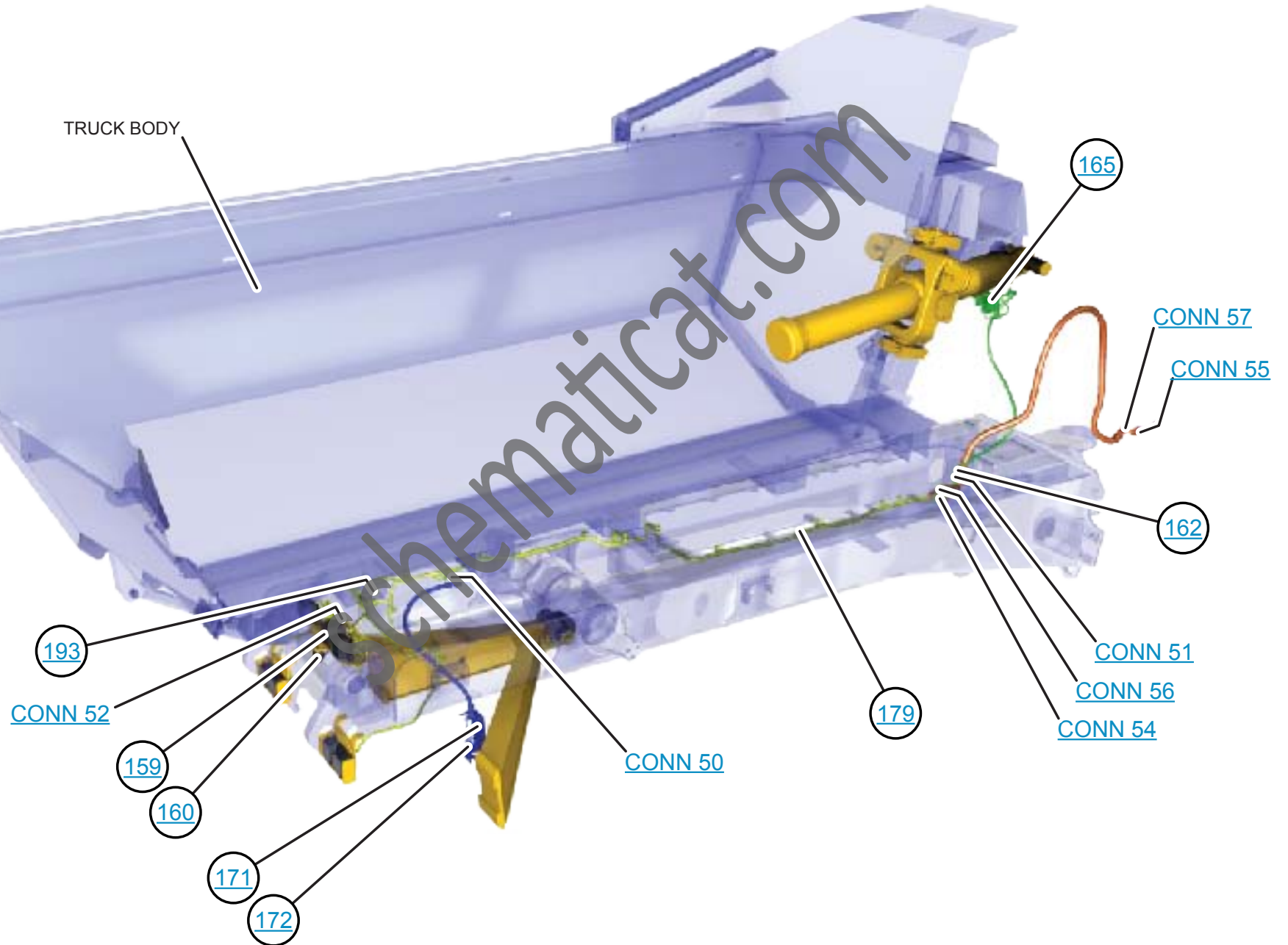




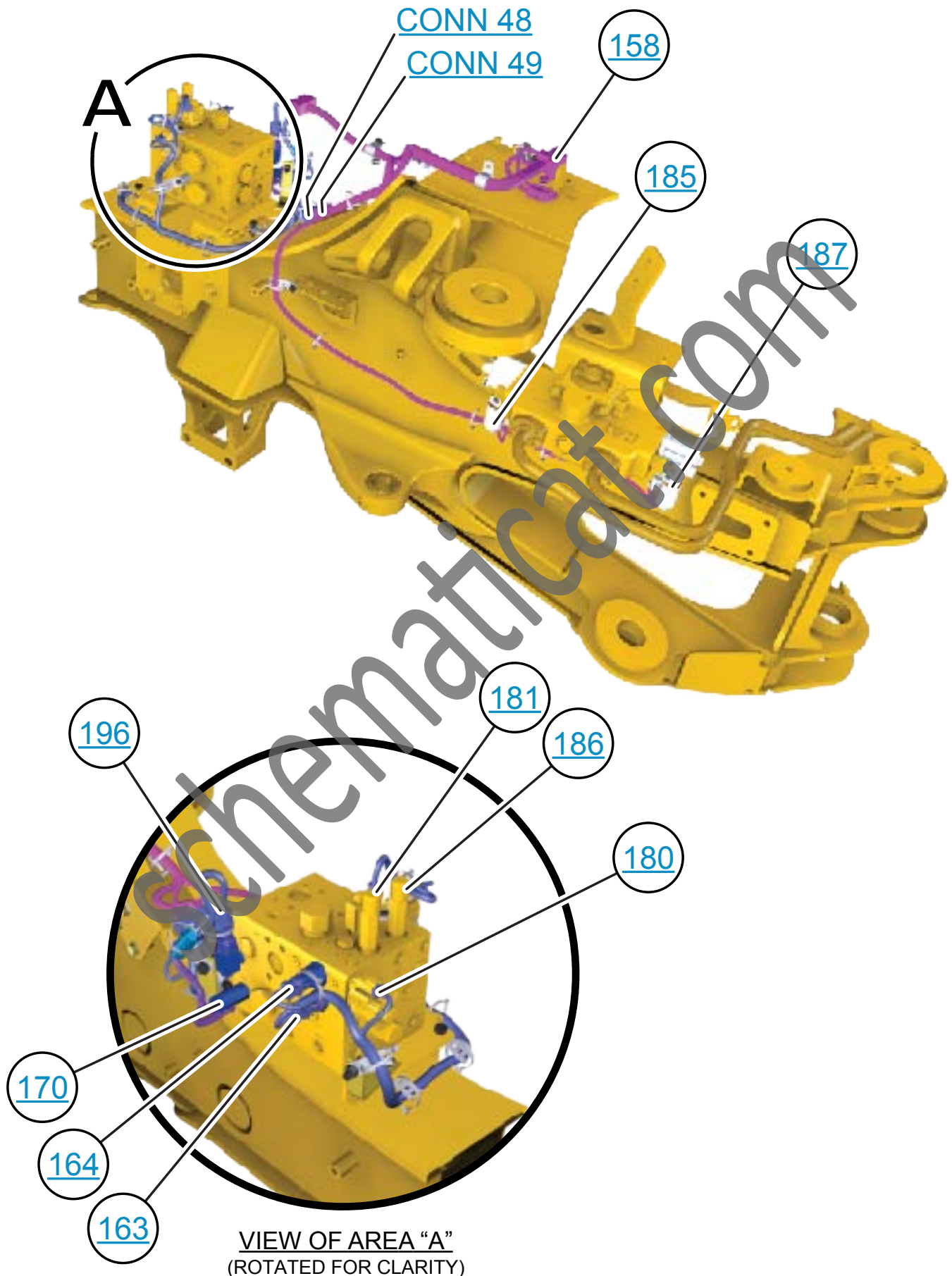
TRANSMISSION WIRING



REAR CHASSIS WIRING



MAIN VALVE WIRING



FRONT CHASSIS WIRING

