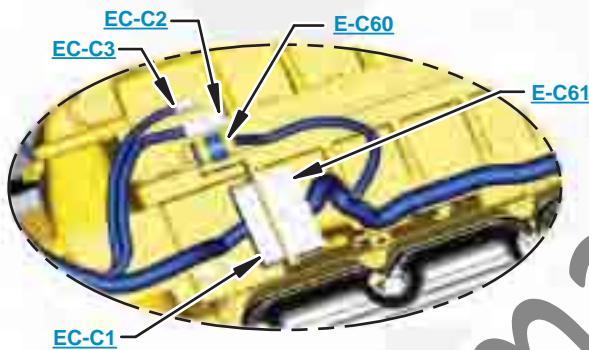




This document is best viewed at a screen resolution of 1024 X 768.

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.

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



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

VIEW ALL CALLOUTS

When only one callout is showing on a machine view 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"



Schematic

D7R Track-Type Tractor Electrical System

DSH1-UP
DLN1-UP
DJR1-UP

Volume 1 of 3: Engine Wiring
Volume 2 of 3: Cab Wiring
Volume 3 of 3: AccuGrade® and Fuel Tank Wiring

COMPONENT LOCATION

Volume 1 of 3 - ENGINE WIRING



Component	Schematic Location	Machine Location	Component	Schematic Location	Machine Location
Alternator	F-3	1	Sensor - Pressure (Fuel)	D-3	19
Battery	F-6	2	Sensor - Pressure (Injection Actuation)	C-3	20
Diode - A/C Compressor	A-4	3	Sensor - Pressure (Turbo Inlet)	E-5	21
ECM - Engine	E-5	4	Sensor - Pressure (Turbo Outlet)	C-3	22
Ground - Case	F-7	5	Sensor - Speed Timing (A)	B-3	23
Ground - Engine	F-3	6	Sensor - Speed Timing (B)	B-3	24
Ground - Engine Block	E-3	7	Sensor - Temperature (Coolant)	C-3	25
Ground - Frame	E-3	8	Sensor - Temperature (Intake Manifold Air)	C-3	26
Ground - Platform	F-7	9	Sensor - Temperature (XMSN Sump)	A-5	27
Horn - Forward (High)	E-2	10	Solenoid - A/C Clutch	A-4	28
Horn - Forward (Low)	E-2	11	Solenoid - IAP Control Valve	C-3	29
Motor - Fuel Priming Pump	F-5	12	Solenoid - Injector (1-6)	D-2, E-2	30
Motor - Starter	F-3	13	Solenoid - Start Aid	B-5	31
Resistor - Backup Alarm	B-7	14	Switch - Disconnect	F-7	32
Resistor - CAN A Datalink Terminating #1	B-7	15	Switch - Disconnect (Remote)	F-7	33
Sender - Temperature (TC Oil)	A-5	16	Switch - Fuel Priming	E-5	34
Sensor - Pressure (Atmospheric)	C-3	17	Switch - Refrigerant	A-4	35
Sensor - Pressure (Engine Oil)	C-3	18			

COMPONENT LOCATION

Volume 2 of 3 - CAB WIRING



Component	Schematic Location	Machine Location
10A Converter	H-9	36
12V Outlet #1	C-13	37
12V Outlet #2	C-13	38
20A Converter	G-10	39
Alarm - Action	F-1	40
Block - Fuse	J-10	41
ECM - AccuGrade	J-15	42
ECM - Product Link	F-15	43
Ground - Headliner	H-5	87
Ground - Module	J-6	44
Ground - Module #1	I-6	45
Ground - Module #2	H-11	46
Ground - Module #3	H-11	47
Ground - Platform (RH)	A-14	48
Handle - AccuGrade	C-9	49
Handle - Implement	C-12	50
Handle - Pilot Winch	D-12	51
Module - Power (PM400)	A-16	52
Motor - Blower	I-1	53
Motor - Precleaner	D-3	54
Motor - Washer (Front)	J-2	55
Motor - Washer (Left)	J-2	56
Motor - Washer (Rear)	J-2	57
Motor - Washer (Right)	J-2	58
Motor - Wiper (Front)	I-3	59
Motor - Wiper (Left)	I-3	60
Motor - Wiper (Rear)	J-4	61
Motor - Wiper (Right)	J-3	62
Relay - Precleaner	D-1	63
Relay - Rear Flood	H-1	64
Relay - Shutdown Enable	F-3	65
Relay - Winch/Blade Float Detent	C-11	66
Resistor - Blower	I-1	67
Resistor - CAN A Datalink Terminating #2	G-13	68
Resistor - CAN D Datalink Terminating (D1)	B-15	69
Resistor - Terminating (B1)	B-15	70
Sensor - Decelator Pedal	F-3	71
Switch - A/C	H-1	72
Switch - Blower (4 Speed)	H-1	73
Switch - Flood (Rear)	G-1	74
Switch - Horn	B-10	75
Switch - Implement Shutoff	B-10	76
Switch - Key	G-1	77
Switch - Lamp	G-1	78
Switch - Park Brake Status	J-14	79
Switch - Reverse Status	J-14	80
Switch - Thermostat	H-1	81
Switch - Throttle	C-10	82
Switch - Wiper (Front)	I-5	83
Switch - Wiper (Left)	I-5	84
Switch - Wiper (Rear)	J-5	85
Switch - Wiper (Right)	J-5	86

COMPONENT LOCATION

Volume 3 of 3 - ACCUGRADE® AND FUEL TANK WIRING



Component	Schematic Location	Machine Location
Alarm - AccuGrade	E-2	106
Alarm - Backup	C-7	88
Motor - Condenser #1	D-9	89
Motor - Condenser #2	D-9	90
Relay - Condenser (ROPS)	E-8	91
Resistor - CAN D Datalink (D2)	A-6	92
Resistor - Terminating (B2)	A-6	93
Sender - Fuel Level	C-7	94
Sender - Temperature (Hydraulic Oil)	E-5	95
Sensor - Hydraulic Pressure	A-8	96
Sensor - Inclination	B-5	97
Solenoid - Blade (Lower)	B-8	98
Solenoid - Blade (Raise)	B-8	99
Solenoid - Blade (Tilt Left)	B-8	100
Solenoid - Blade (Tilt Right)	B-8	101
Solenoid - Boost	A-8	102
Solenoid - Implement	E-5	103
Solenoid - Winch	E-8	104
Switch - Pressure (Powertrain Filter)	E-5	105

CONNECTOR LOCATION

Volume 1 of 3 - ENGINE WIRING



Connector Number	Schematic Location
CONN 1	D-7
CONN 2	C-7
CONN 3	A-5
CONN 4	E-5
CONN 5	E-5
CONN 6	D-3
CONN 7	D-3
CONN 8	E-2
CONN 9	E-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 of 3 - CAB WIRING



Connector Number	Schematic Location
CONN 1	D-5
CONN 2	C-5
CONN 10	A-15
CONN 11	A-15
CONN 12	C-15
CONN 13	A-13
CONN 14	B-13
CONN 15	B-13
CONN 16	B-13
CONN 17	C-13
CONN 18 Datalink Service Connector	C-13
CONN 19	D-14
CONN 20	E-14
CONN 21	G-13
CONN 22	B-9
CONN 23	B-9
CONN 24 AccuGrade Service Connector	C-9
CONN 25	G-9
CONN 26	G-9
CONN 27	H-9
CONN 28	A-6
CONN 29	A-6
CONN 30	B-6
CONN 31	D-6
CONN 32	J-7
CONN 33	F-5
CONN 34	I-5
CONN 35	J-5
CONN 36	J-4
CONN 37	D-3
CONN 38	I-3
CONN 39	I-2
CONN 40	F-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 3 of 3 - ACCUGRADE® AND FUEL TANK WIRING



Connector Number	Schematic Location
CONN 13	E-4
CONN 14	C-6
CONN 15	D-6
CONN 16	D-6
CONN 17	E-6
CONN 28	A-9
CONN 29	A-9
CONN 31	B-3, D-3
CONN 40	E-5
CONN 41	B-8
CONN 42	C-7
CONN 43	D-7
CONN 44	D-7
CONN 45	D-8
CONN 46	D-7
CONN 47	E-7
CONN 48	B-6
CONN 49	B-6
CONN 50	C-6
CONN 51 Service Connector	C-4

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.

CID / MID / FMI

Volume 1 of 3 - ENGINE WIRING



Component Identifiers (CID ¹) Module Identifier (MID ²)	
Engine Control System (MID No. 036)	
CID	Component
0001	Injector Cylinder #1
0002	Injector Cylinder #2
0003	Injector Cylinder #3
0004	Injector Cylinder #4
0005	Injector Cylinder #5
0006	Injector Cylinder #6
0041	8 Volt DC Supply
0042	Injection Actuation Control Valve
0091	Throttle Position Signal
0094	Fuel Pressure
0100	Engine Oil Pressure
0110	Engine Coolant Temperature
0164	Injector Actuation Pressure
0168	Electrical System Voltage
0172	Intake Manifold Air Temperature
0190	Engine Speed Signal
0247	J1939 Data Link
0253	Personality Module
0261	Engine Timing Calibration
0262	5 Volt Sensor Supply
0264	Decel Throttle Position
0266	Incorrect Crank/Without-Inject Input
0268	Check Programable Parameters
0274	Atmospheric Pressure
0291	Engine Cooling Fan Solenoid
0296	Transmission ECM
0342	Secondary Engine Speed Sensor
1589	Turbo Inlet Air Pressure Sensor
1599	Engine Fan Pull Solenoid
1600	Engine Fan Push Solenoid
1639	Machine Security System
1785	Intake Manifold Pressure Sensor

Failure Mode Identifiers (FMI) ¹	
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 update.
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 failures.

¹The FMI is a diagnostic code that indicates what type of failure has occurred.

¹ The CID is a diagnostic code that indicates which component is faulty.

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

SPECIFICATIONS AND RELATED MANUALS

Volume 1 of 3 - ENGINE WIRING



Resistor, Sender and Solenoid Specifications		
Part No.	Component Description	Resistance (Ohms) ¹
106-5122	Solenoid: A/C Clutch	17.6 ± 0.6
134-2540	Resistor: CAN A	120
239-1134	Solenoid: Start Aid	20

¹ At room temperature unless otherwise noted.

Related Electrical Service Manuals	
Title	Form Number
Cross Reference for Electrical Connectors:	REHS0970
Hydraulic Schematic:	UENR0047
Alternator (95A): 197-8820	SENR4130
Alternator (150A): 249-0313	SENR4130
Starting Motor (STD): 338-3454	SENR3860
Starting Motor (ATCH): 237-1962	SENR3860
Engine Control:	SENR9830

Off Machine Switch Specification				
Part No.	Function	Actuate	Deactuate	Contact Position
114-5333	A/C Refrigerant Pressure	275 to 1750 kPa ¹ (39.9 to 253.8 psi)	- -	Normally Open ²

¹ 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 (25psi).

² Contact position at the contacts of the harness connecto

Related Electrical Service Manuals

Title	Form Number
Cross Reference for Electrical Connectors:	REHS0970
Hydraulic Schematic:	UENR0047
Alternator (95A): 197-8820	SENR4130
Alternator (150A): 249-0313	SENR4130
Starting Motor (STD): 338-3454	SENR3860
Starting Motor (ATCH): 237-1962	SENR3860
Engine Control:	SENR9830

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SPECIFICATIONS AND RELATED MANUALS

Volume 3 of 3 - ACCUGRADE® AND FUEL TANK WIRING



Related Electrical Service Manuals

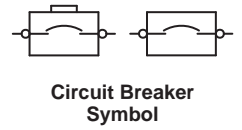
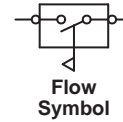
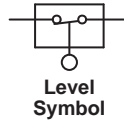
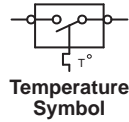
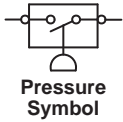
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Starting Motor (STD): 338-3454	SENR3860
Starting Motor (ATCH): 237-1962	SENR3860
Engine Control:	SENR9830

HARNESS and WIRE

Electrical Schematic Symbols



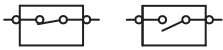
Symbols



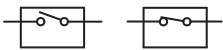
Symbols and Definitions



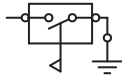
Fuse: A component in an electrical circuit that will open the circuit if too much current flows through it.



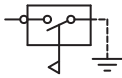
Switch (Normally Open): A switch that will close at a specified point (temp, press, etc.). The circle indicates that the component has screw terminals and a wire can be disconnected from it.



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.



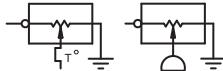
Ground (Wired): This indicates that the component is connected to a grounded wire. The grounded wire is fastened to the machine.



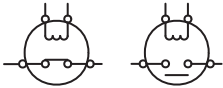
Ground (Case): This indicates that the component does not have a wire connected to ground. It is grounded by being fastened to the machine.



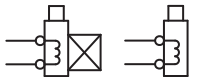
Reed Switch: A switch whose contacts are controlled by a magnet. A magnet closes the contacts of a normally open reed switch; it opens the contacts of a normally closed reed switch.



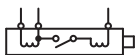
Sender: A component that is used with a temperature or pressure gauge. The sender measures the temperature or pressure. Its resistance changes to give an indication to the gauge of the temperature or pressure.



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.



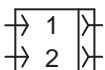
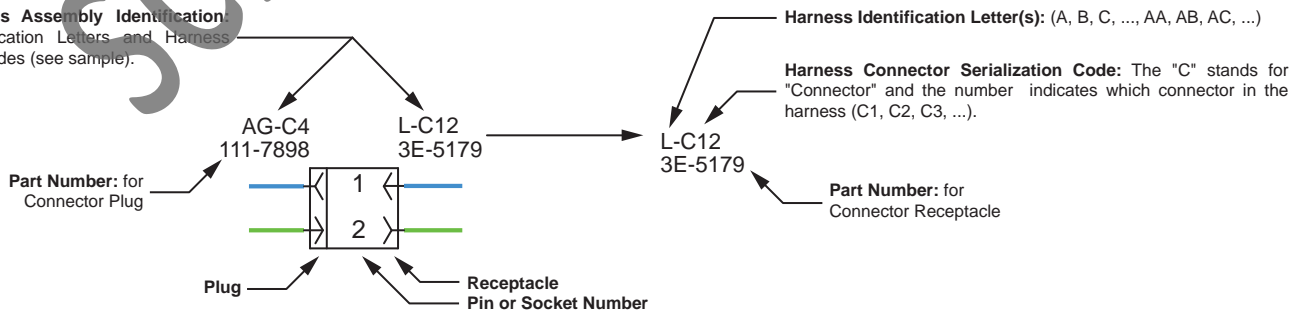
Solenoid: A solenoid is an electrical component that is activated by electricity. It has a coil that makes an electromagnet when current flows through it. The electromagnet can open or close a valve or move a piece of metal that can do work.



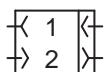
Magnetic Latch Solenoid: A magnetic latch solenoid is an electrical component that is activated by electricity and held latched by a permanent magnet. It has two coils (latch and unlatch) that make electromagnet when current flows through them. It also has an internal switch that places the latch coil circuit open at the time the coil latches.

Harness and Wire Symbols

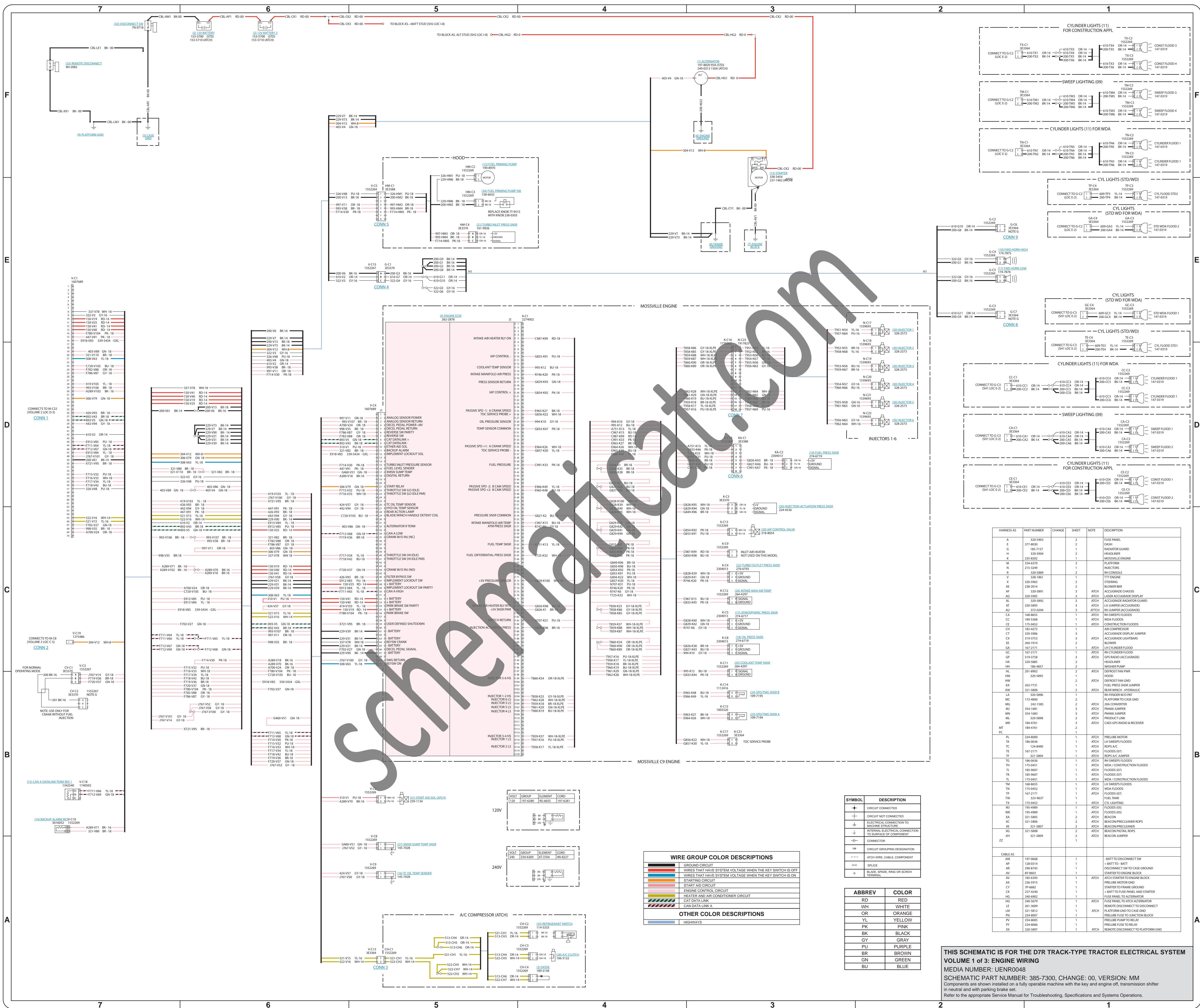
Wire, Cable, or Harness Assembly Identification: Includes Harness Identification Letters and Harness Connector Serialization Codes (see sample).



Deutsch connector: Typical representation of a Deutsch connector. The plug contains all sockets and the receptacle contains all pins.

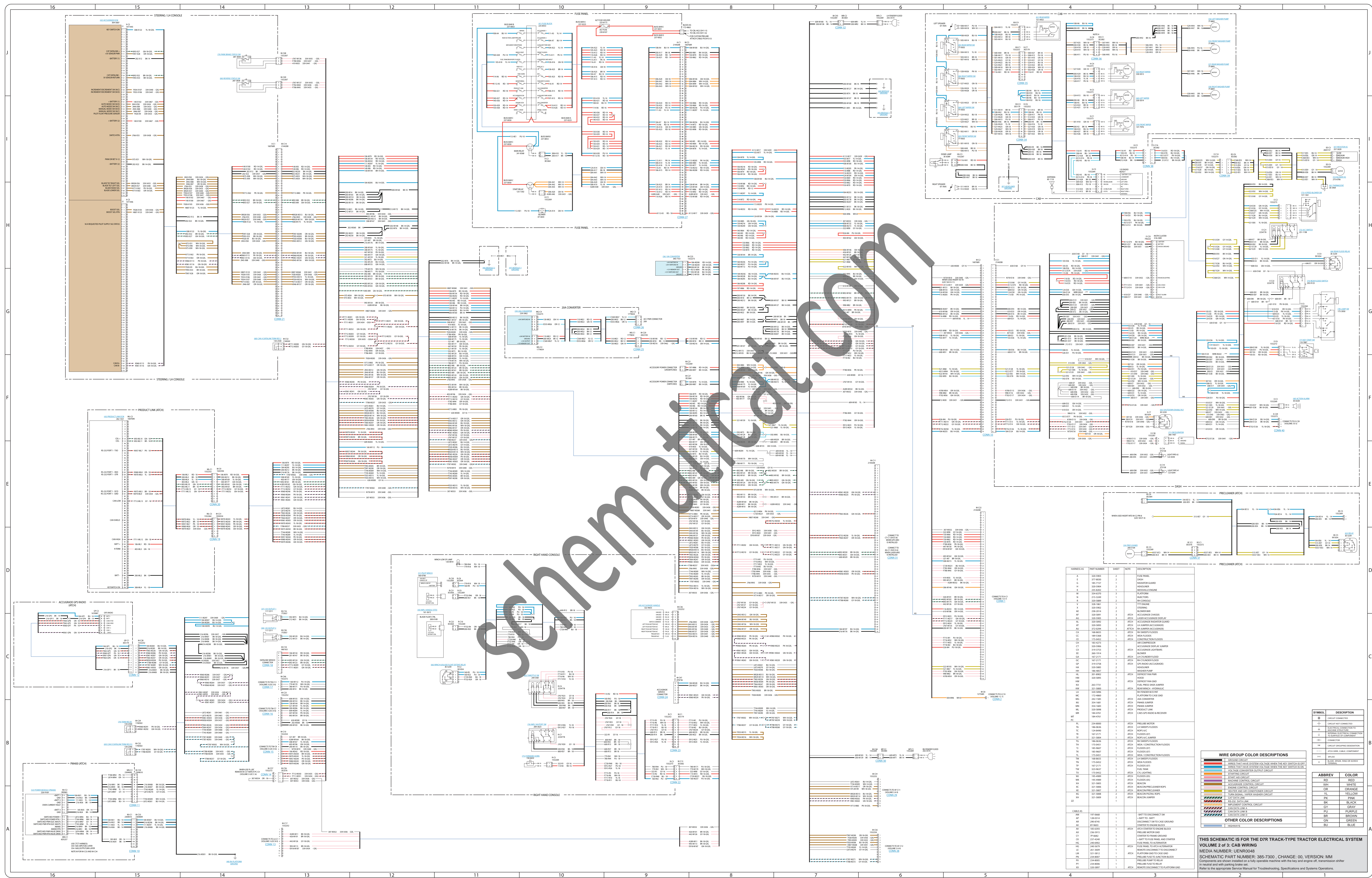


Sure-Seal connector: Typical representation of a Sure-Seal connector. The plug and receptacle contain both pins and sockets.

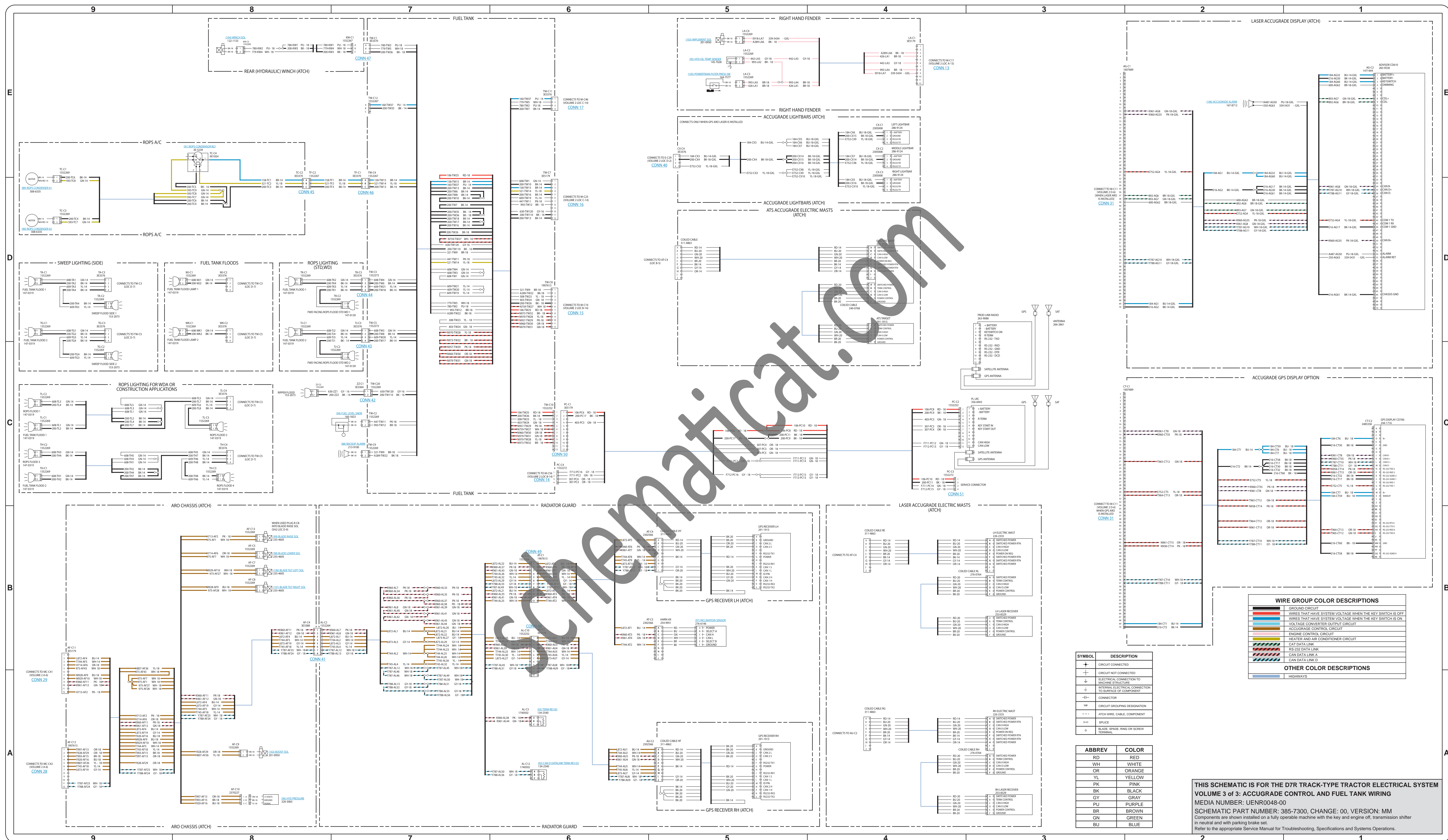


HARNESS AS	PART NUMBER	CHANGE	SHEET	NOTE	DESCRIPTION
A	370-993	2			FUSE PANEL
E	185-717	1			DASH
G	200-596	1			RADIATOR GUARD
H	200-596	1			HEADLAMP
K	235-802	1			MOSSVILLE ENGINE
M	354-670	2			PLATFORM
N	215-249	1			INJECTORS
R	320-589	1			BR CONSOLE
T	320-589	1			TTT ENGINE
X	320-992	2			STEERING
AE	230-201	1			ACCUMULATOR
AF	320-591	1			ACCUMULATOR CHASSIS
AG	320-595	1			ACCUMULATOR DISPLAY
AL	320-591	1			ACCUMULATOR RADIATOR GUARD
AT	320-589	1			LH JUMPER (ACCUMULATOR)
AU	372-029	1			ATTACH (RM JUMPER (ACCUMULATOR))
CA	160-905	1			CONSTRUCTION FLOODS
CC	189-538	1			WDA FLOOR
CD	320-591	1			CONSTRUCTION FLOODS
CH	182-423	1			AIR COMPRESSOR
CI	320-996	1			ACCUMULATOR DISPLAY JUMPER
CL	319-375	1			ACCUMULATOR LIGHTS/BLOCK
CM	200-1914	2			BLOWER
CO	320-589	1			CONSTRUCTION FLOODS
CP	167-217	1			RM CYLINDER FLOOD
CQ	319-378	1			GPS (RM/ACCUMULATOR)
CR	320-589	1			HEADLAMP
CS	180-887	2			WASHER PUMP
CT	320-589	1			CONSTRUCTION FLOODS
CU	320-589	1			HOOD
CV	320-589	1			DIFFERENTIAL OIL
CA	263-737	1			FUEL PRESS SW JUMPER
KW	321-580	2			REAR WINDSHIELD WIPER
LA	320-589	1			DEFENDER WIPER
MAC	172-480	2			PLATFORM TO CASE GND
MA	242-185	1			2ND CONVENTOR
MJ	354-168	1			PRMAD JUMPER
MK	320-589	1			PRMAD JUMPER
ML	184-475	1			PRODUCT LINK
MR	184-475	1			CASES GPS RADIO RECEIVER
MP	184-475	1			GPS
PL	234-800	1			PRELLIE MOTOR
TA	184-800	1			LH SWEEPS FLOODS
TC	124-840	1			CONSTRUCTION FLOODS
TD	167-217	1			FLOODS (BT)
TE	180-905	1			FLOODS (BT)
TF	321-588	1			FLOODS (BT)
TG	180-905	1			FLOODS (BT)
TH	180-905	1			FLOODS (BT)
TI	180-905	1			FLOODS (BT)
TJ	180-905	1			FLOODS (BT)
TK	180-905	1			FLOODS (BT)
TL	175-045	1			WDA CONSTRUCTION FLOODS
TM	180-855	1			LH SWEEPS FLOODS
TN	175-045	1			WDA FLOODS
TP	167-217	1			FLOODS (BT)
TQ	321-588	1			FUEL TANK
TR	175-045	1			CYL LIGHTING
WU	199-489	1			FLOODS (BT)
WX	199-489	1			FLOODS (BT)
XA	321-580	2			BEACON
XB	321-580	2			BEACON
XC	321-580	2			BEACON
XD	321-580	2			BEACON
YE	321-580	2			BEACON
YF	321-580	2			BEACON
YG	321-580	2			BEACON
YH	321-580	2			BEACON
ZI	321-580	2			BEACON
ZJ	321-580	2			BEACON

THIS SCHEMATIC IS FOR THE D7R TRACK-TYPE TRACTOR ELECTRICAL SYSTEM
VOLUME 1 of 3: ENGINE WIRING
MEDIA NUMBER: UENR048
SCHEMATIC PART NUMBER: 385-7300, CHANGE: 00, VERSION: MM
 Components are shown installed on a fully operable machine with the key and engine off, transmission shifter in neutral and with parking brake set.
 Refer to the appropriate Service Manual for Troubleshooting, Specifications and Systems Operations.



WIRE GROUP	PART NUMBER	UNIT	NOTE
A	330 5983	1	FUSE PANEL
B	377 8939	2	WASHER
C	382 1717	1	WASHER GUARD
D	330 5904	2	WASHER
E	330 5922	1	WASHER MOUNTING
F	334 5370	1	PLATFORM
G	379 2494	1	PLATFORM
H	330 5989	1	PLATFORM
I	330 5989	1	PLATFORM
J	330 5989	1	PLATFORM
K	330 5989	1	PLATFORM
L	330 5989	1	PLATFORM
M	330 5989	1	PLATFORM
N	330 5989	1	PLATFORM
O	330 5989	1	PLATFORM
P	330 5989	1	PLATFORM
Q	330 5989	1	PLATFORM
R	330 5989	1	PLATFORM
S	330 5989	1	PLATFORM
T	330 5989	1	PLATFORM
U	330 5989	1	PLATFORM
V	330 5989	1	PLATFORM
W	330 5989	1	PLATFORM
X	330 5989	1	PLATFORM
Y	330 5989	1	PLATFORM
Z	330 5989	1	PLATFORM
AA	330 5989	1	PLATFORM
AB	330 5989	1	PLATFORM
AC	330 5989	1	PLATFORM
AD	330 5989	1	PLATFORM
AE	330 5989	1	PLATFORM
AF	330 5989	1	PLATFORM
AG	330 5989	1	PLATFORM
AH	330 5989	1	PLATFORM
AI	330 5989	1	PLATFORM
AJ	330 5989	1	PLATFORM
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GF	330 5989	1	PLATFORM
GG	330 5989	1	PLATFORM
GH	330 5989	1	PLATFORM



WIRE GROUP COLOR DESCRIPTIONS

- GROUND CIRCUIT
- WIRES THAT HAVE SYSTEM VOLTAGE WHEN THE KEY SWITCH IS OFF
- WIRES THAT HAVE SYSTEM VOLTAGE WHEN THE KEY SWITCH IS ON
- VOLTAGE CONVERTER OUTPUT CIRCUIT
- ACCURGRADE CONTROL CIRCUIT
- ENGINE CONTROL CIRCUIT
- HEATER AND AIR CONDITIONER CIRCUIT
- CAT DATA LINK
- RS-232 DATA LINK
- CAN DATA LINK A
- CAN DATA LINK B
- CAN DATA LINK C
- HIGHWAYS

SYMBOL DESCRIPTION

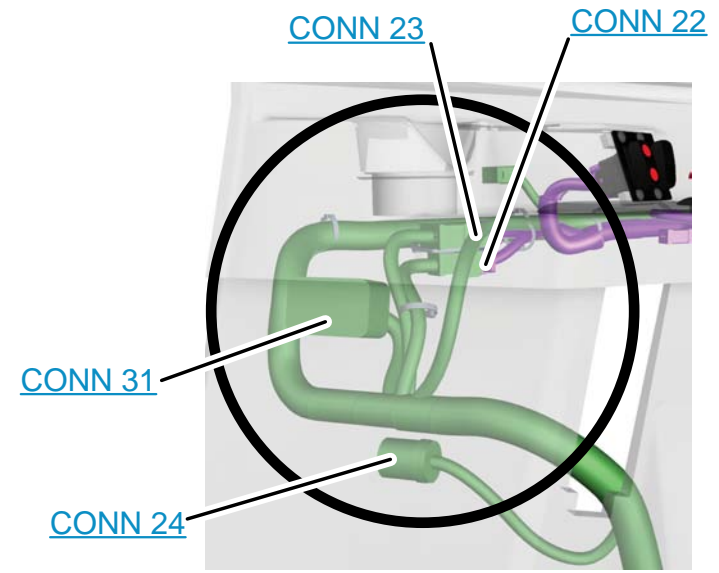
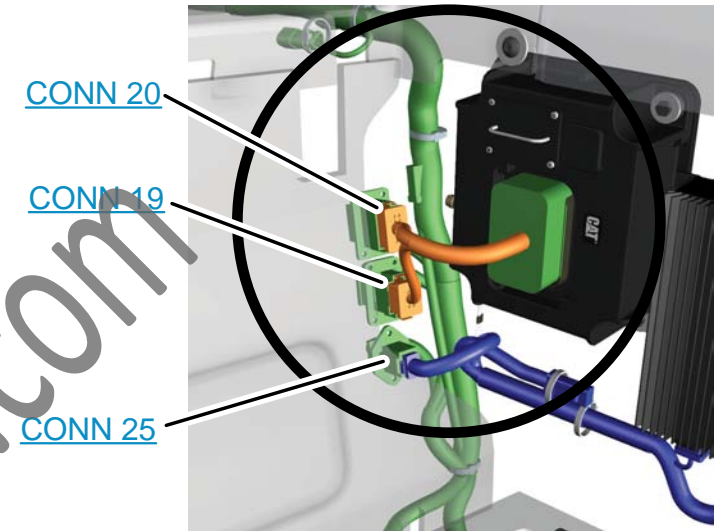
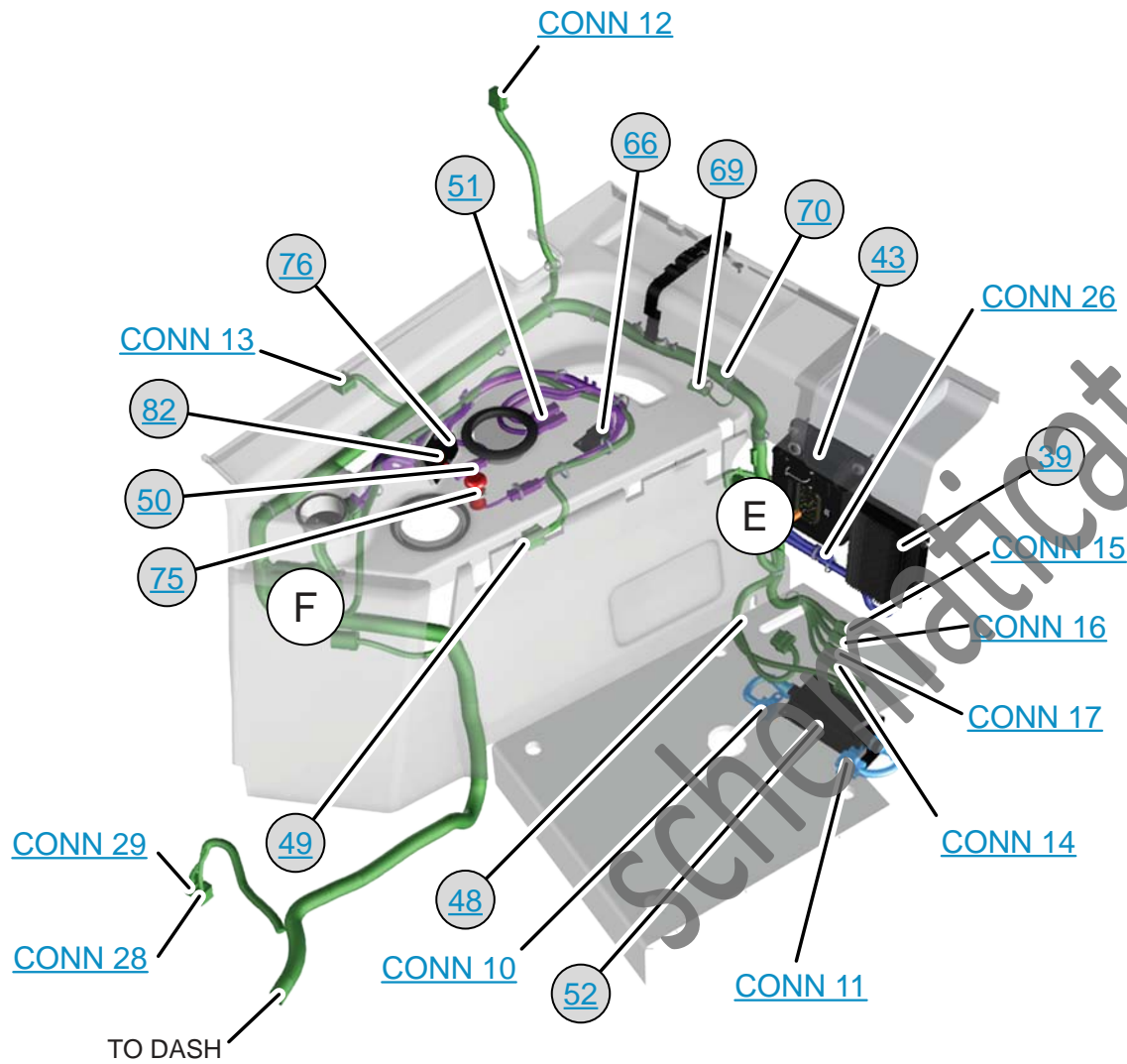
- CIRCUIT CONNECTED
- CIRCUIT NOT CONNECTED
- ELECTRICAL CONNECTION TO MACHINE ELECTRICAL SYSTEM
- INTERNAL ELECTRICAL CONNECTION TO SURFACE OR COMPONENT
- CONNECTOR
- COIL/RELAY GROUPING DESIGNATION
- JST/WIRE CABLE COMPONENT
- BRACE
- BRACE, SPINDLE RING OR SCREW TERMINAL

ABBREV COLOR

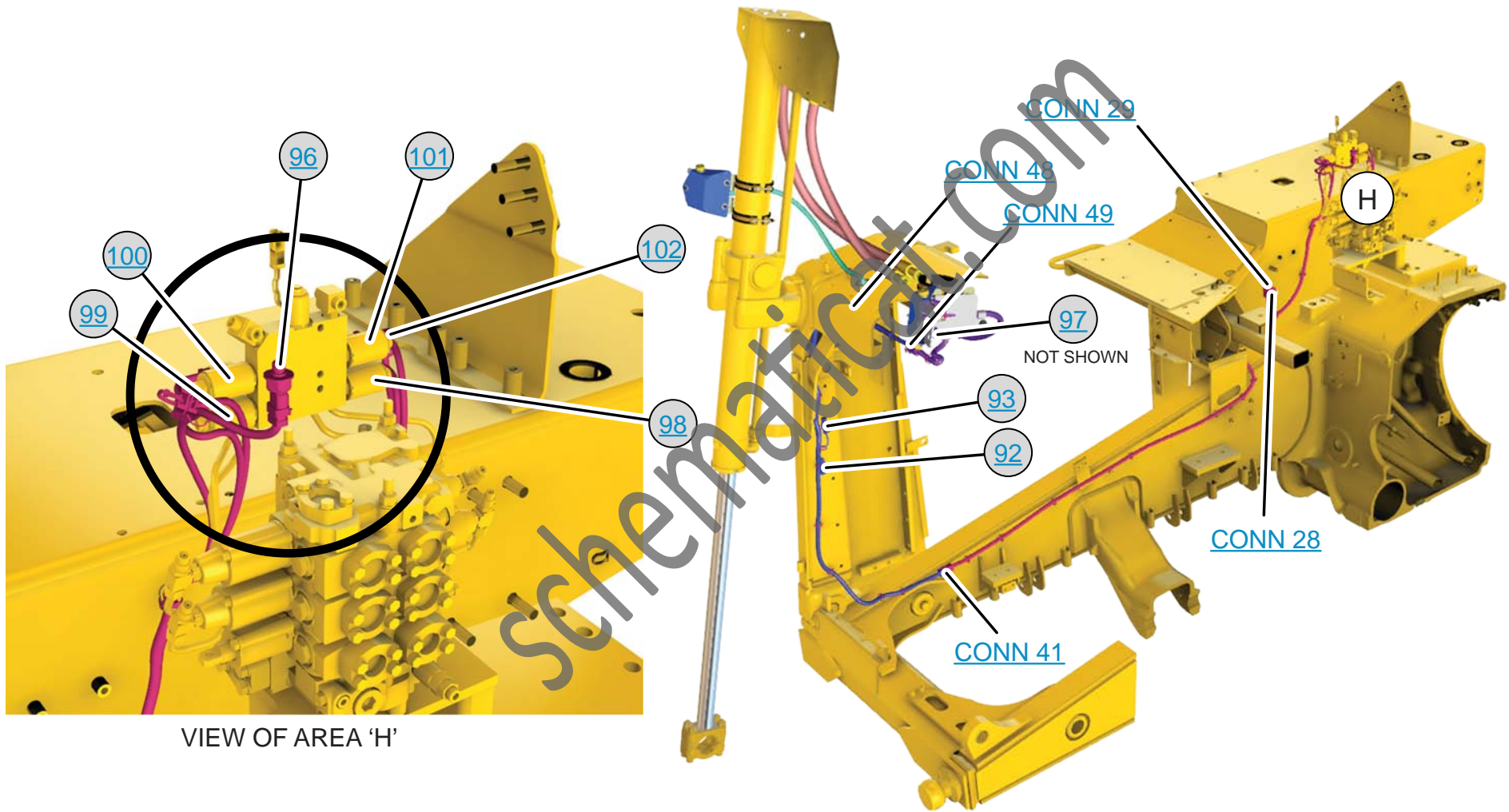
RD	RED
WH	WHITE
OR	ORANGE
YL	YELLOW
PK	PINK
BK	BLACK
GY	GRAY
PU	PURPLE
BR	BROWN
GN	GREEN
BU	BLUE

THIS SCHEMATIC IS FOR THE D7R TRACK-TYPE TRACTOR ELECTRICAL SYSTEM
VOLUME 3 of 3: ACCURGRADE CONTROL AND FUEL TANK WIRING
 MEDIA NUMBER: UENR0048-00
 SCHEMATIC PART NUMBER: 385-7300, CHANGE: 00, VERSION: MM
 Components are shown installed on a fully operable machine with the key and engine off, transmission shifter in neutral and with parking brake set.
 Refer to the appropriate Service Manual for Troubleshooting, Specifications and Systems Operations.

RH CONSOLE WIRING

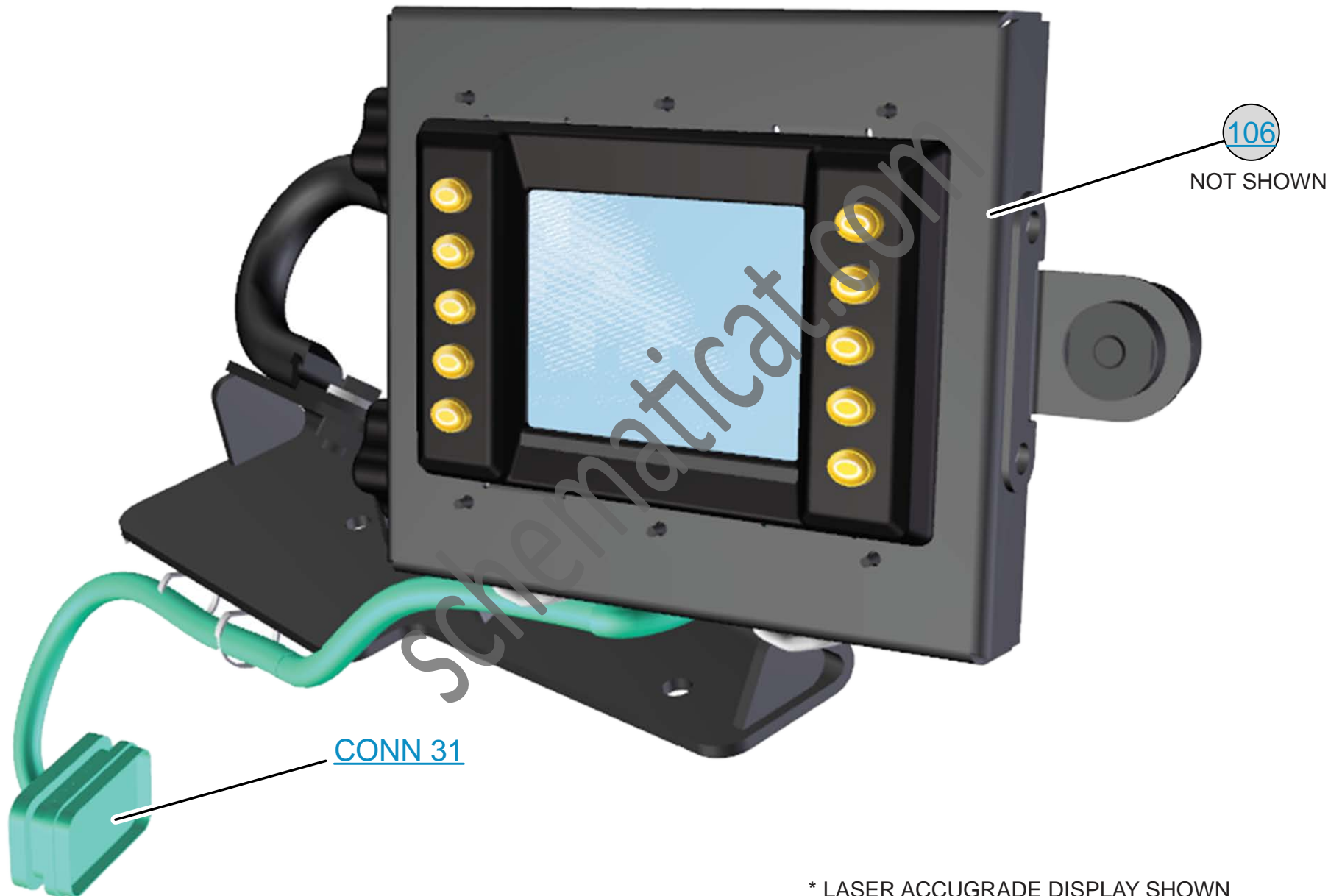


ACCUGRADE CHASSIS WIRING



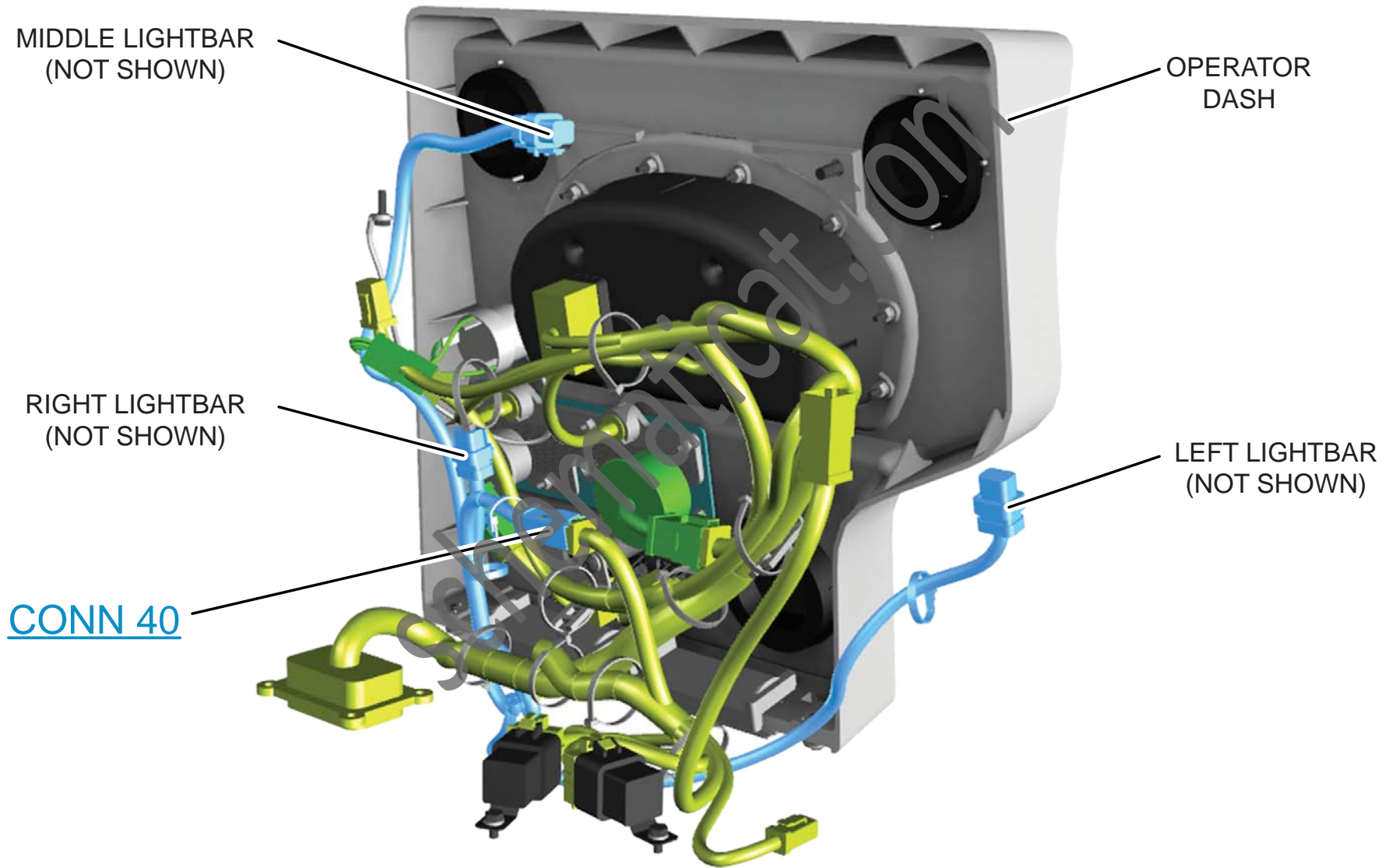
VIEW OF AREA 'H'

ACCUGRADE DISPLAY WIRING

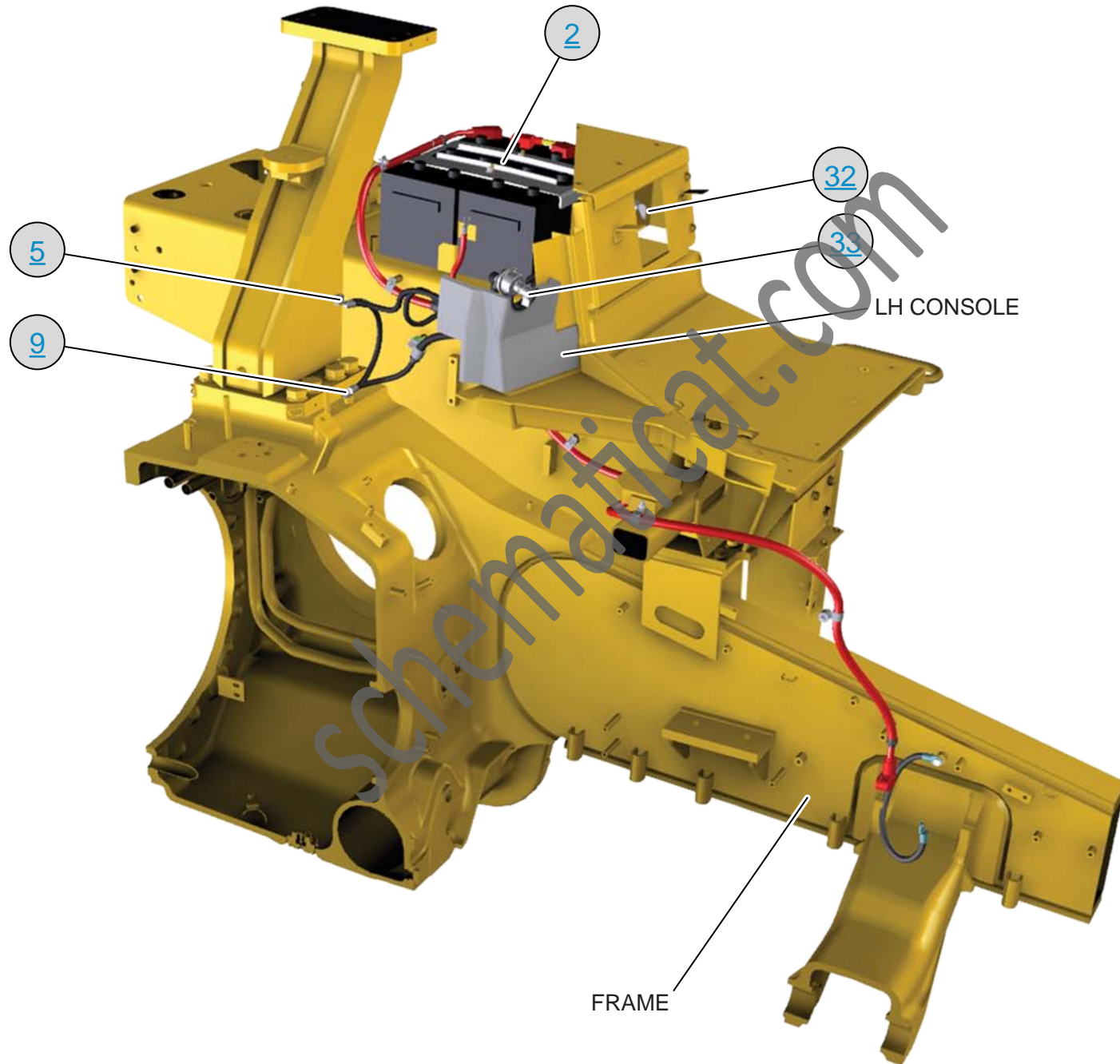


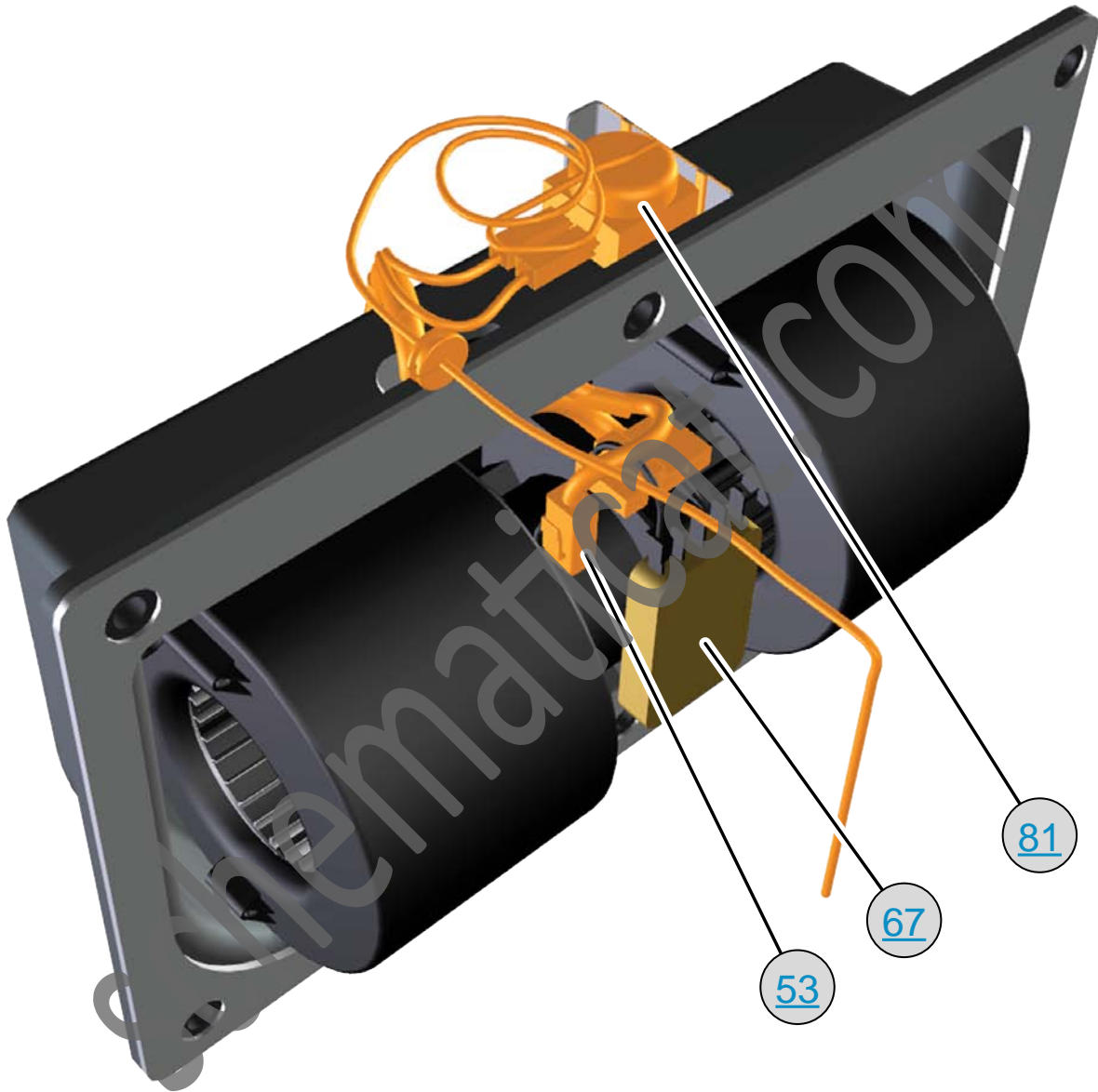
* LASER ACCUGRADE DISPLAY SHOWN

ACCUGRADE LIGHTBAR WIRING



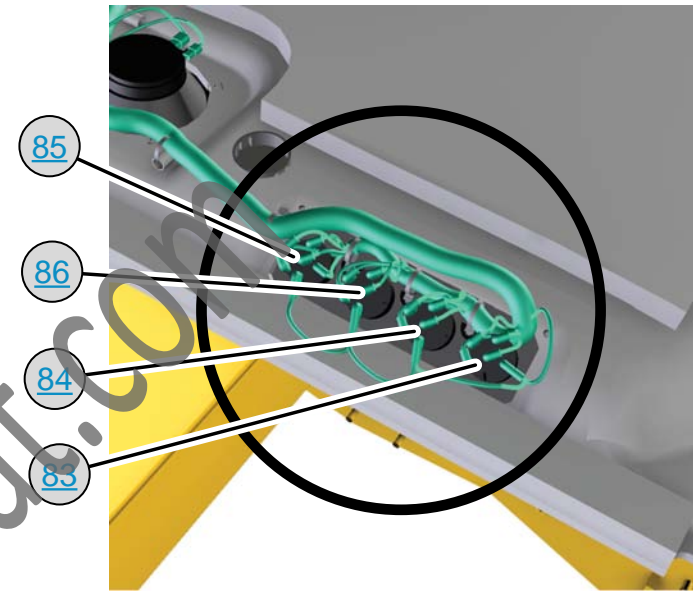
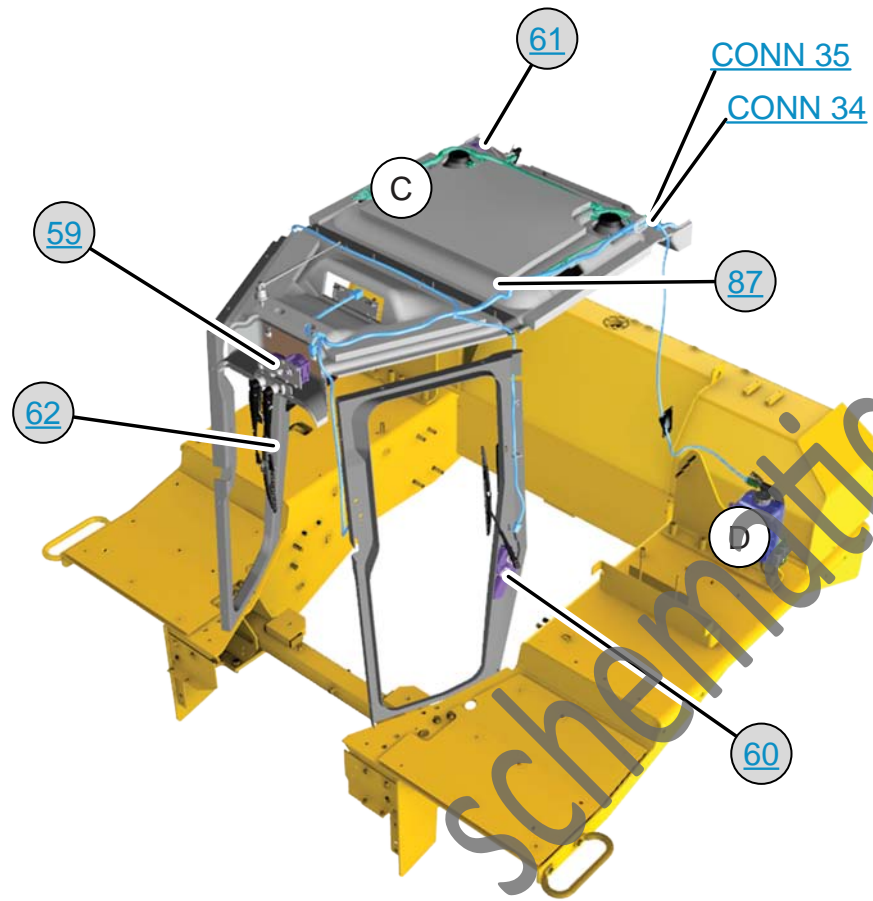
BATTERY CABLING (RIGHT FRONT VIEW)



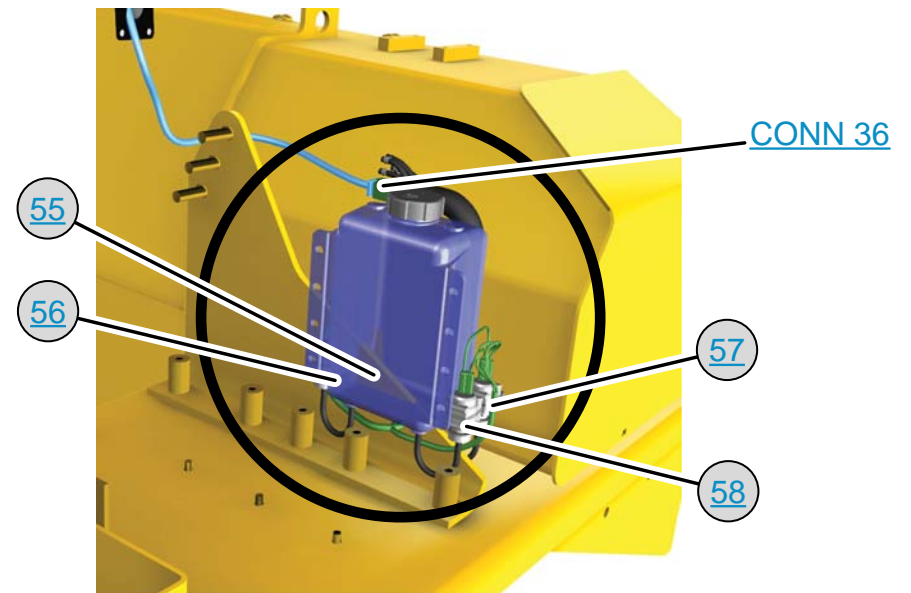


* LOCATED BEHIND OPERATOR DASH PANEL

CAB HEADLINER WIRING

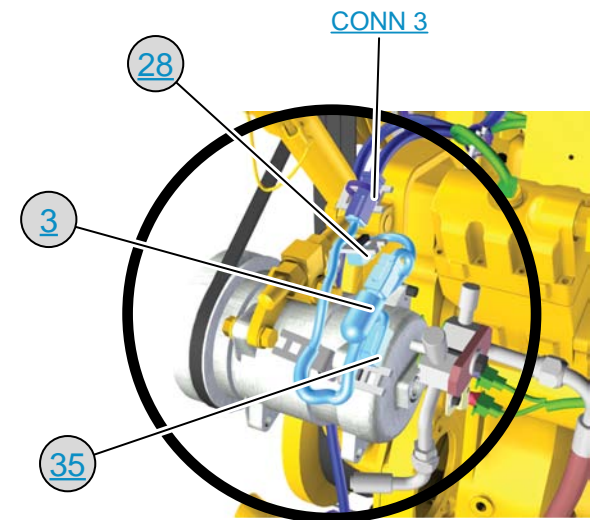
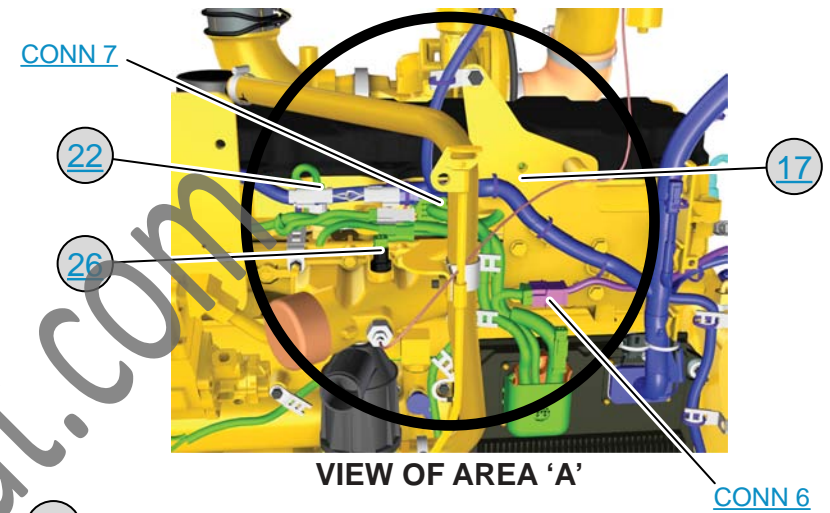
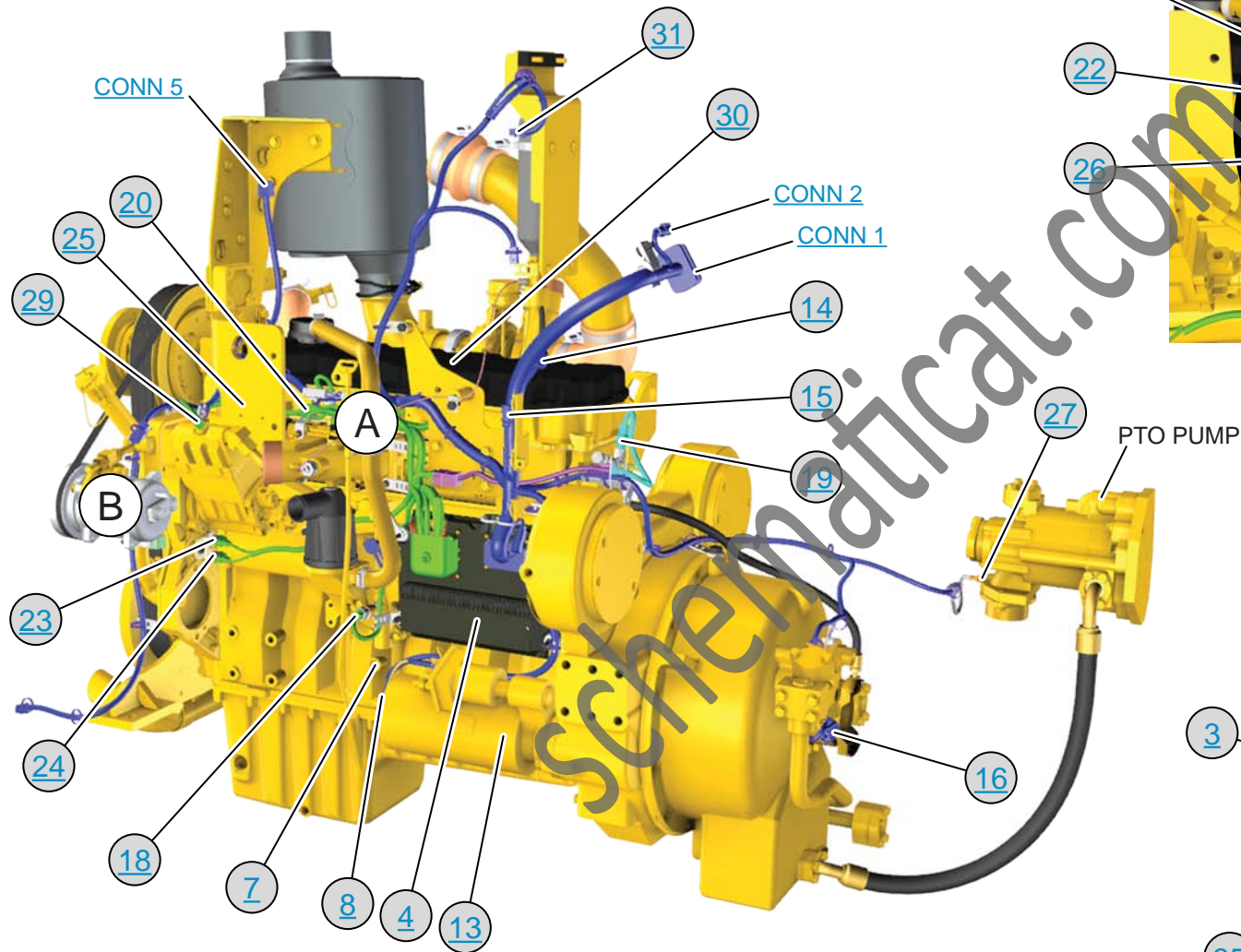


VIEW OF AREA 'C'

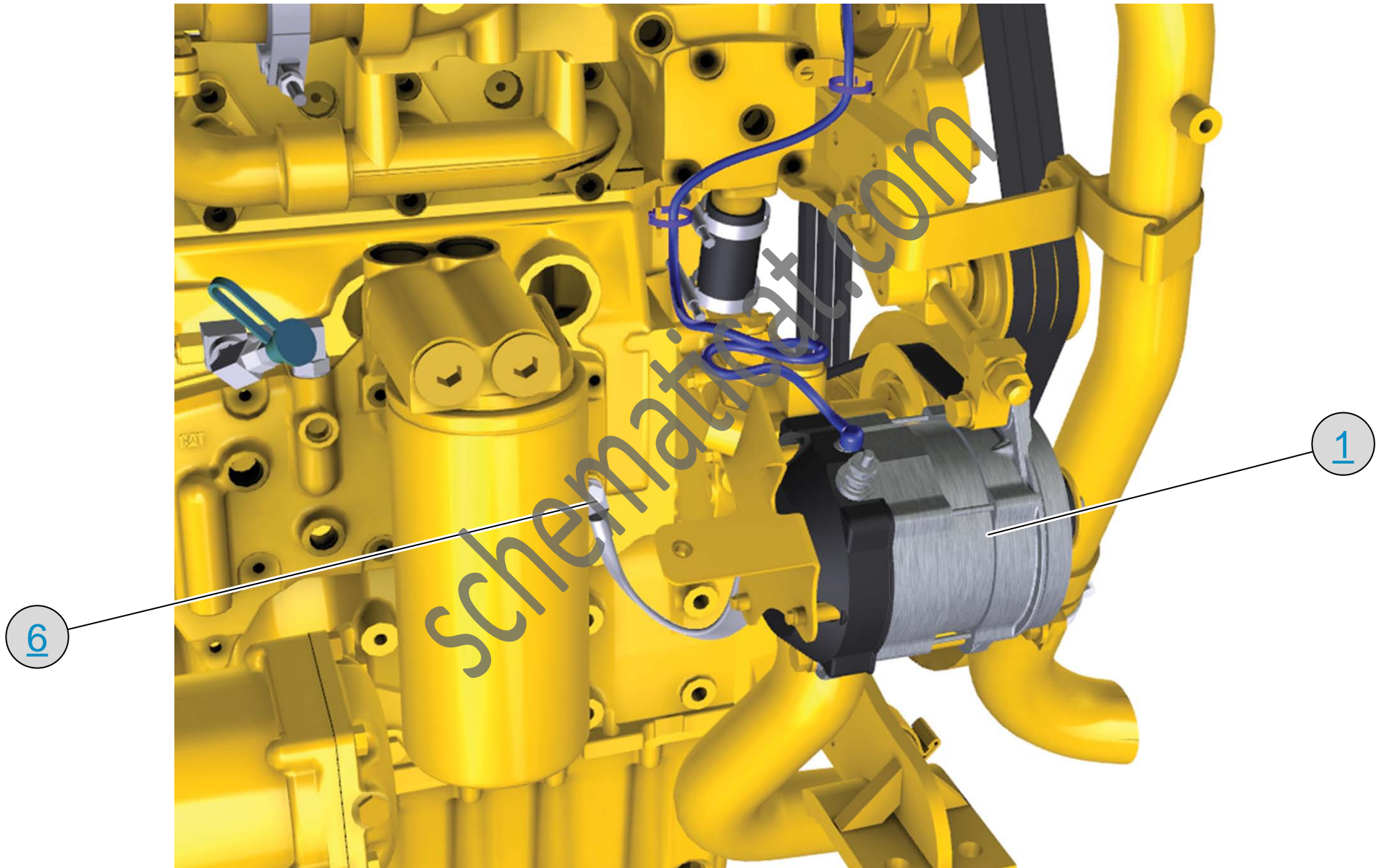


VIEW OF AREA 'D'

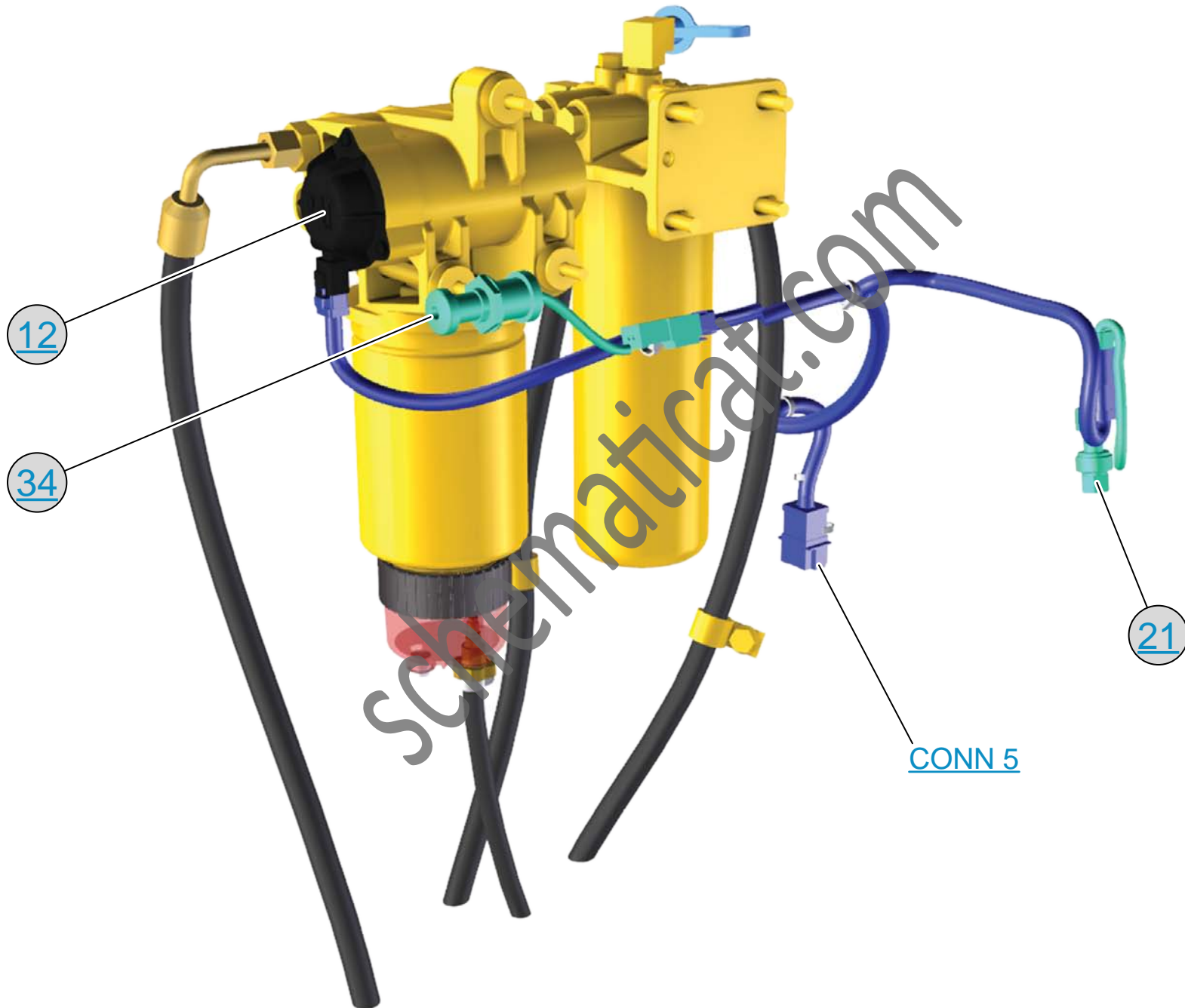
ENGINE WIRING (LEFT REAR VIEW)



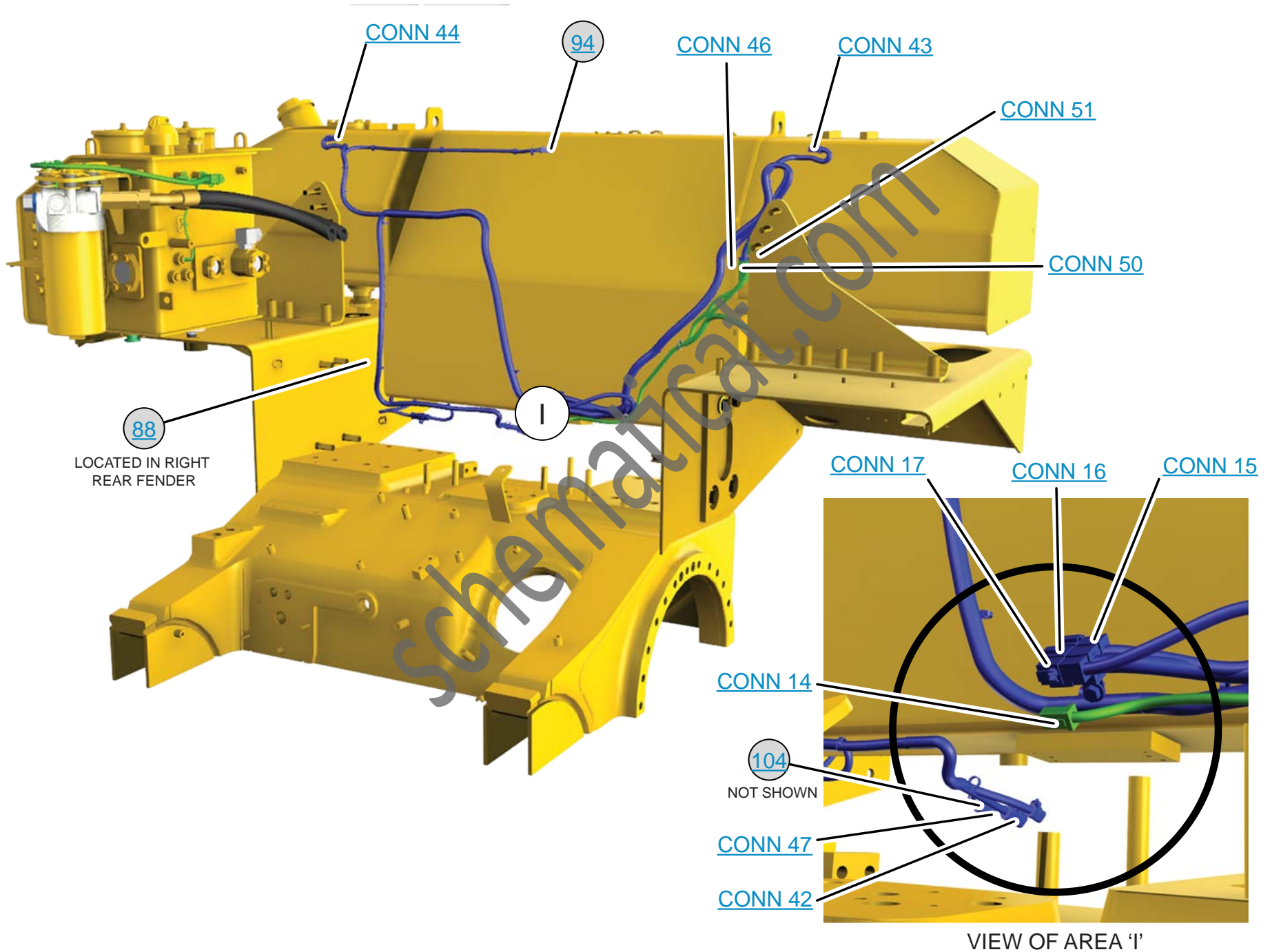
ENGINE WIRING (RIGHT FRONT VIEW)



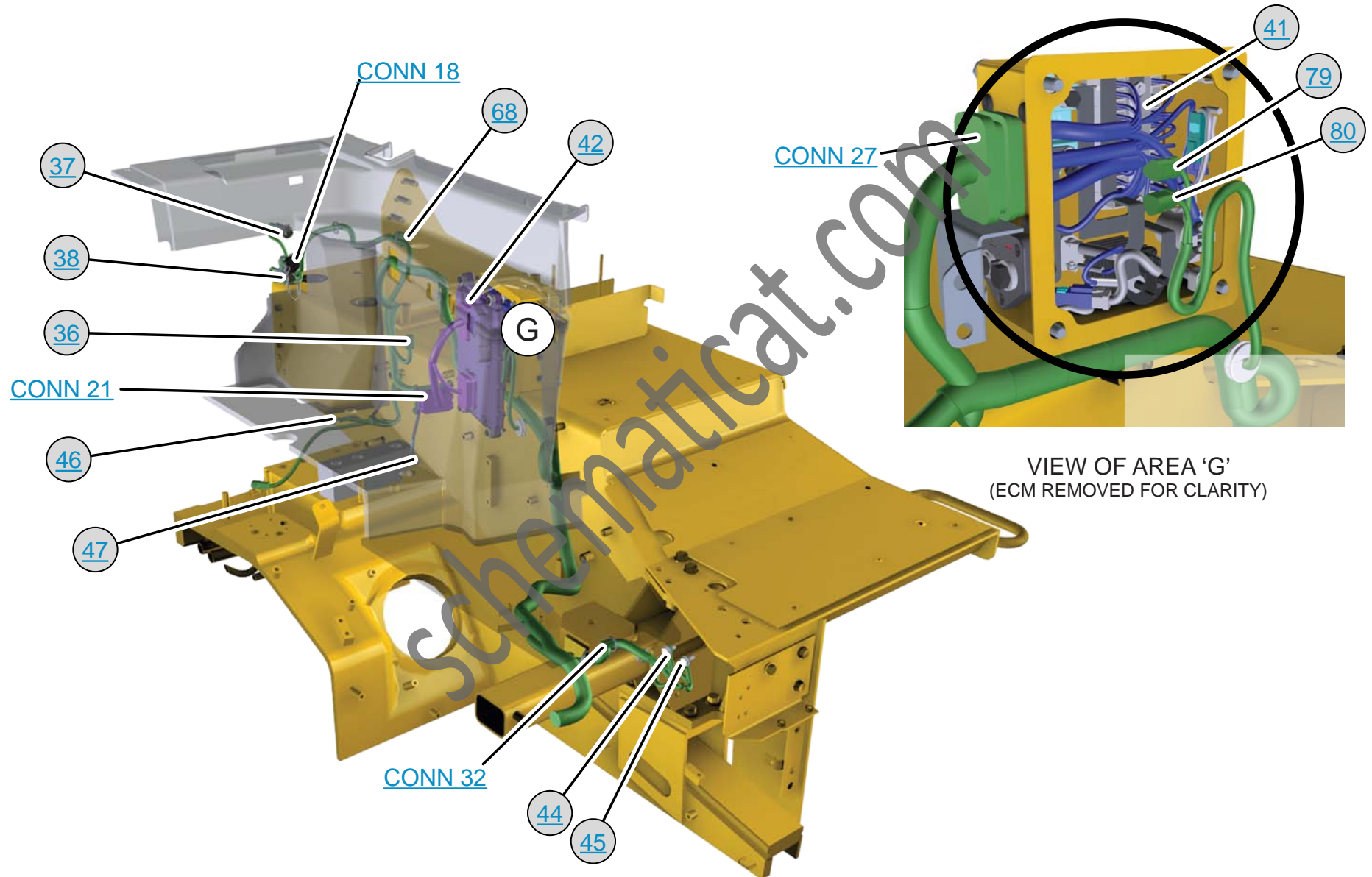
FILTER WIRING

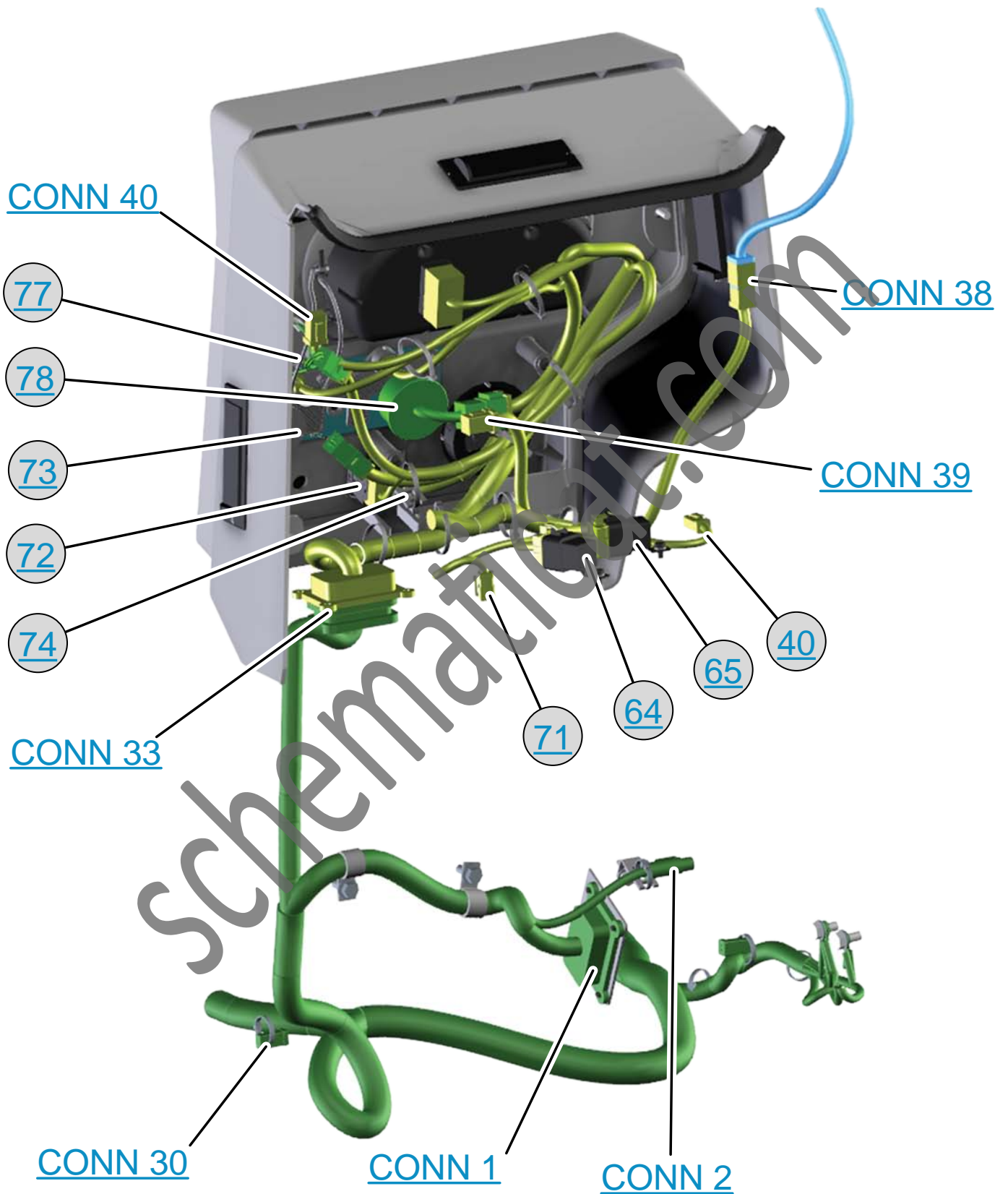


FUEL TANK WIRING

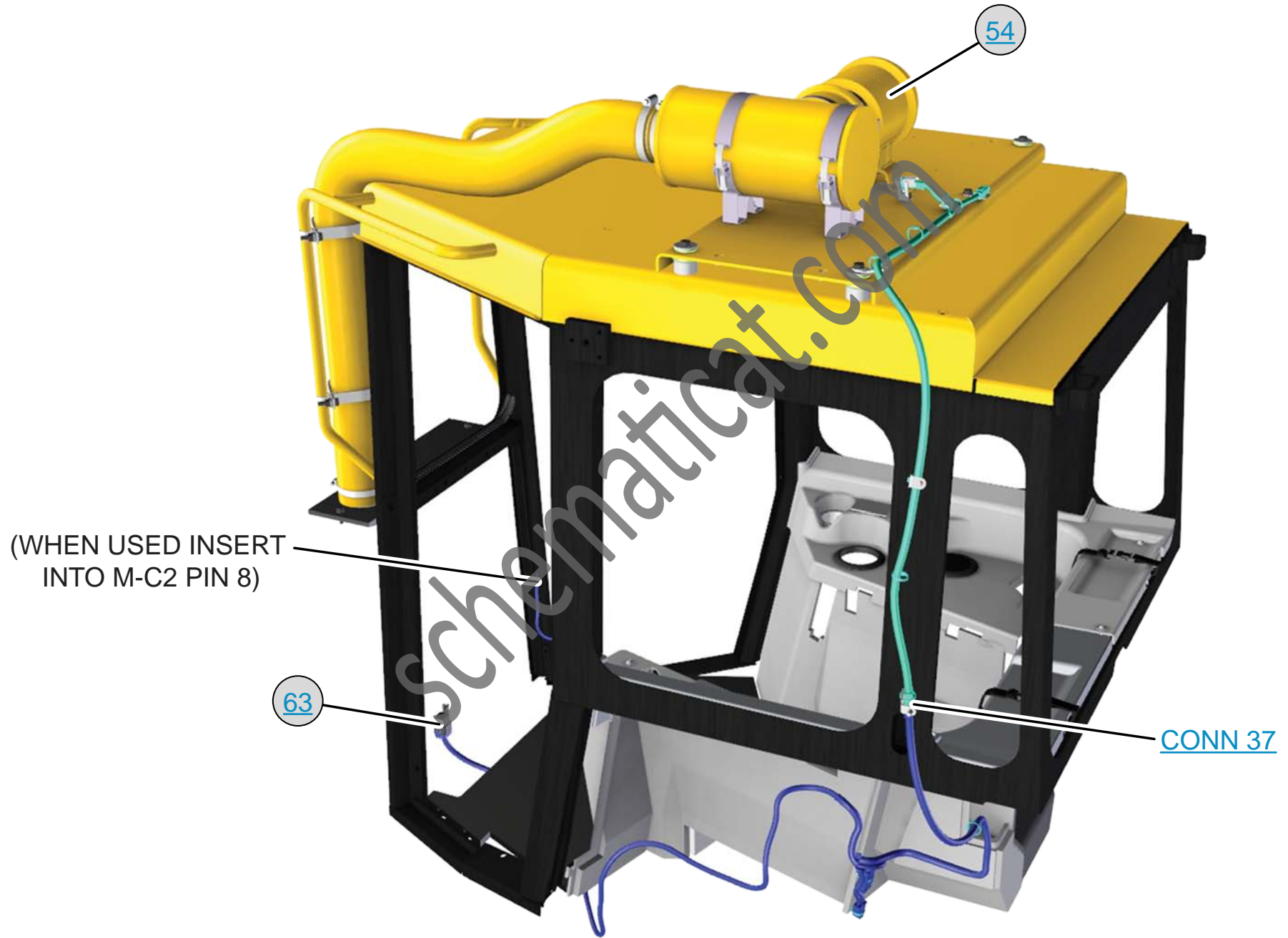


LH CONSOLE WIRING

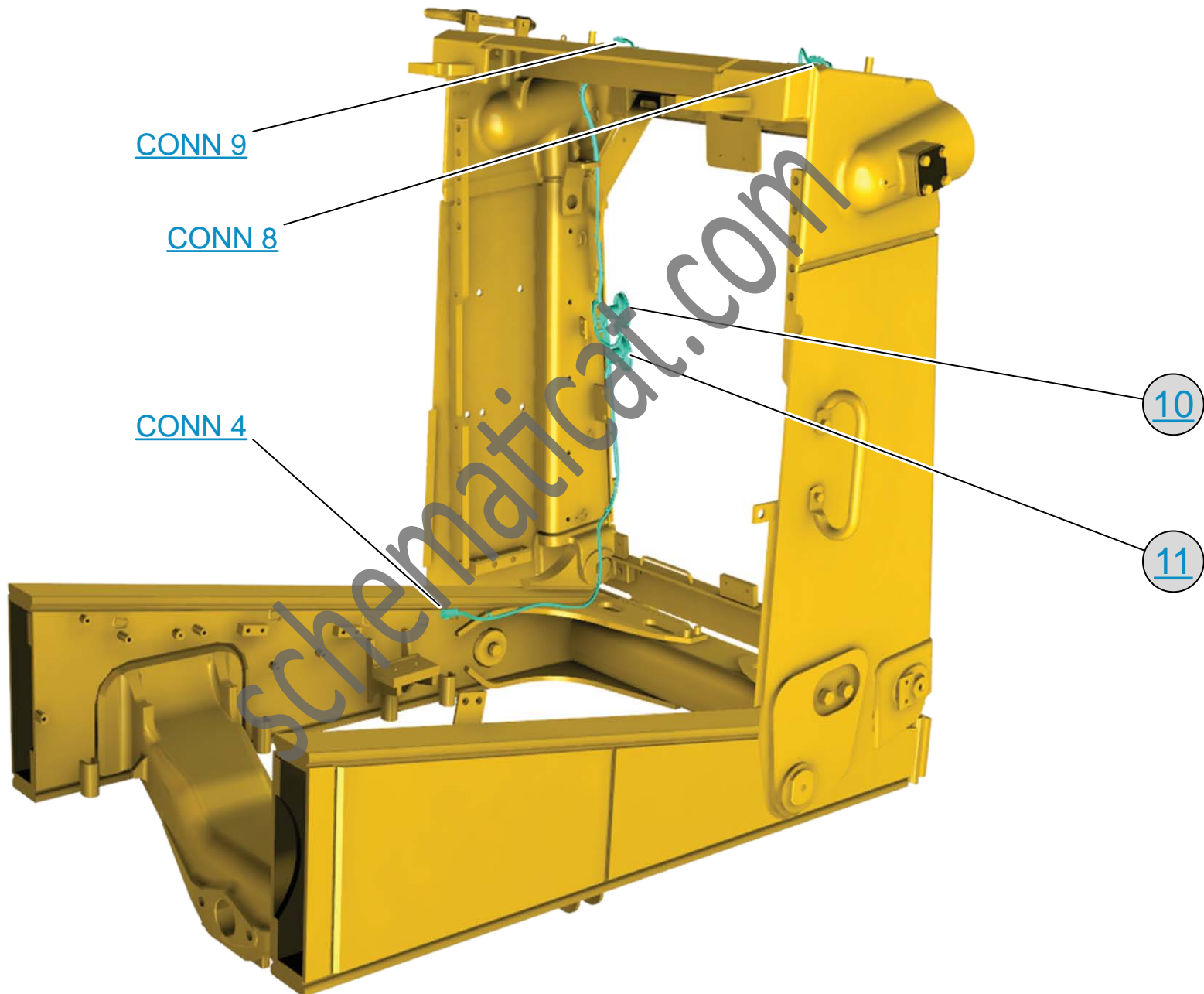




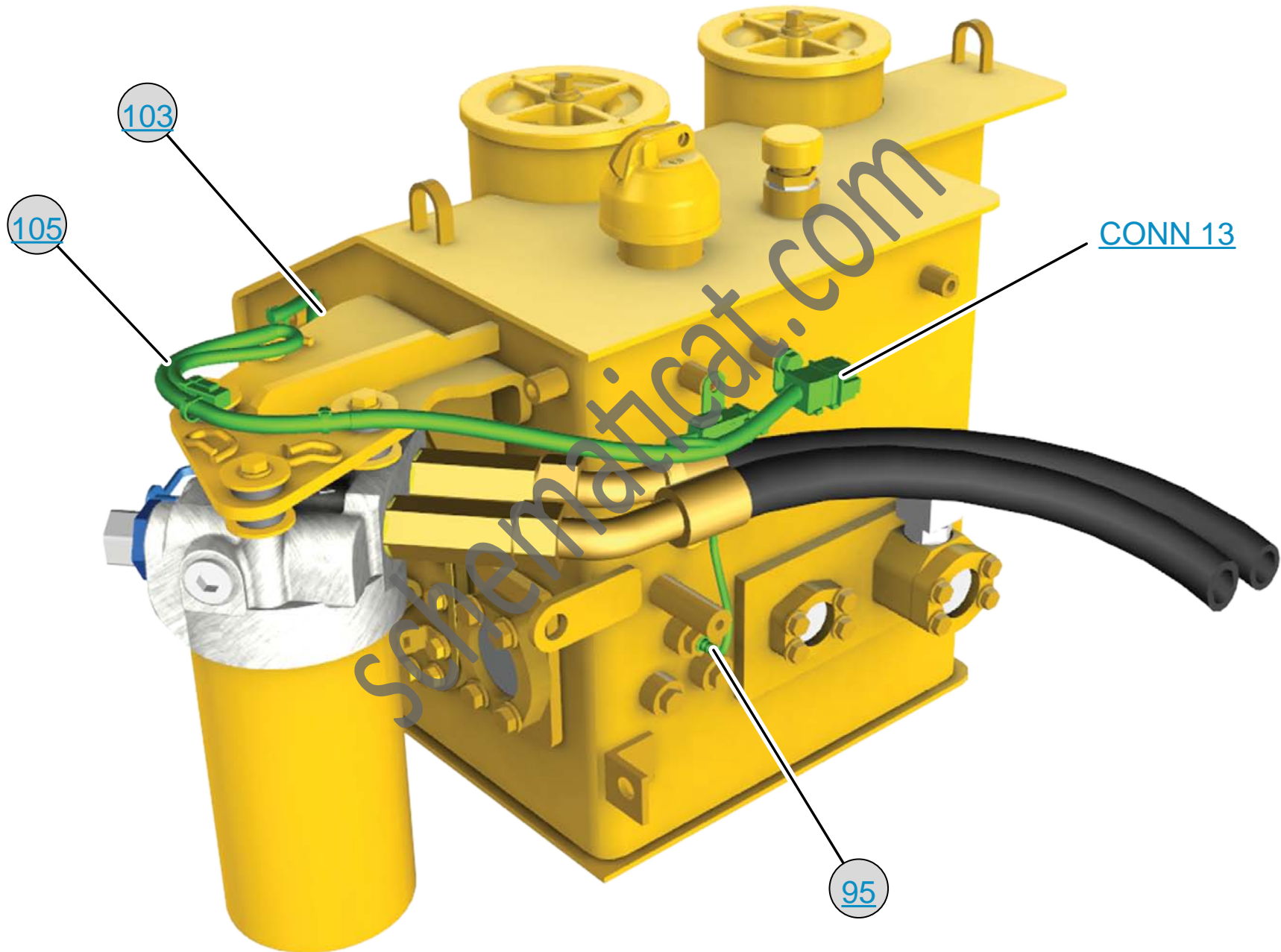
OPERATOR DASH WIRING 2



RADIATOR GUARD WIRING



RIGHT FENDER WIRING



ROPS HVAC WIRING

