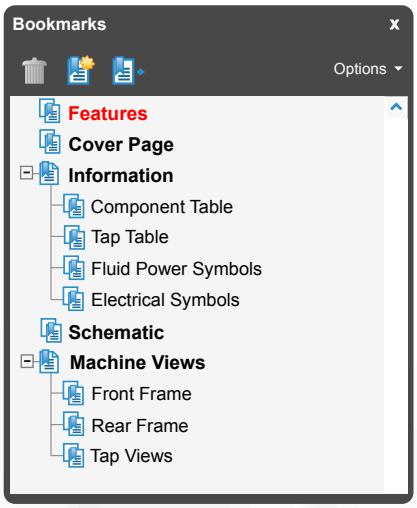
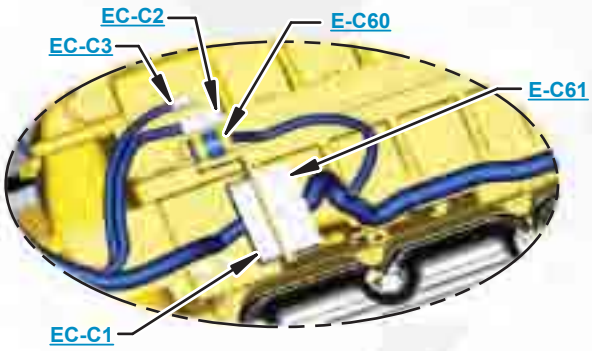
INTERACTIVE SCHEMATIC



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.



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"

RENR9783-02
May 2014

Schematic

834K Wheel Dozer
836K Landfill Compactor
Electrical System

834K:
TWY1-UP

836K:
TWZ1-UP

Volume 1 of 4: Main Cab
Volume 2 of 4: Cab
Volume 3 of 4: Chassis
Volume 4 of 4: Engine

Printed in U.S.A.

COMPONENT LOCATION
Volume 1 of 4 - MAIN CAB

Component	Schematic Location	Machine Location	Component	Schematic Location	Machine Location
24V Flasher	H-3	1	Panel - HVAC	J-5	33
Alarm - Action	H-2	2	Radio - Product Link (ATCH)	J-1	34
Alarm - Machine Feature	C-1	3	Relay - Machine Power Distribution	A-15	35
Breaker - Engine ECM	B-16	4	Relay - Main	B-15	36
Breaker - Roof A/C 1	B-16	5	Resistor - Bumper Trans Lockout LED	E-1	37
Breaker - Roof A/C 2	B-16	6	Resistor - CAN A Data Link	E-1	38
Bussbar 1	A-16	7	Resistor - CAN B Data Link	G-13	39
Bussbar 2	A-15	8	Resistor - CAN C Data Link	F-1	40
Bussbar 3	B-15	9	Resistor - Keypad CAN Data Link	C-4	41
Converter - 10 Amp	I-1	10	Sensor - Inclination ARC	J-11	42
Display - Information	H-4	11	Sensor - Inclination MDP	J-11	43
ECM - 5-Port Ethernet Switch	I-10	12	Sensor - Throttle Position	J-2	44
ECM - Implement	J-13	13	Sensor - Torque Converter Pedal	I-2	45
ECM - Powertrain	G-13	14	Switch - 3rd Function Lockout	B-4	46
ECM - Product Link (ATCH)	G-11	15	Switch - Cab Stair Lamp	I-4	47
ECM - VIMS	G-10	16	Switch - Front Intermittent Wiper	J-5	48
Ground - Headliner	C-16	17	Switch - Hazard Lamp	I-4	49
Ground - Implement ECM	G-12	18	Switch - HID Lamp (ATCH)	J-4	50
Ground - Powertrain ECM	C-12	19	Switch - HVAC On/Off	I-5	51
Ground - RH Rear 1	C-16	20	Switch - Implement Lockout	E-5	52
Ground - RH Rear 2	C-16	21	Switch - Key	A-4	53
Ground - VIMS ECM	F-11	22	Switch - Parking Brake	E-5	54
Ground Strap	A-16	23	Switch - Rear Intermittent Wiper	J-5	55
Instrument Cluster	E-4	24	Switch - Re-Gen	C-4	56
Junction Block AS	B-16	25	Switch - Reversing Fan	B-4	57
Keypad	D-4	26	Switch - Rotary Beacon (ATCH)	H-4	58
Motor - Standard Front Wiper	H-1	27	Switch - Running Lamp	J-4	59
Motor - Standard Rear Wiper	I-2	28	Switch - Stop Lamp	J-2	60
Motor - Touch Cab Front Wiper	H-1	29	Switch - Throttle Lock Disengage	J-2	61
Motor - Touch Cab Rear Wiper	I-2	30	Switch - Work Lamp	I-4	62
Outlet - 12V 1	C-4	31	Switched Relay / Fuse Block AS	E-10	63
Outlet - 12V 2	C-1	32	Unswitched Relay / Fuse Block AS	C-10	64

COMPONENT LOCATION
Volume 2 of 4 - CAB

Component	Schematic Location	Machine Location	Component	Schematic Location	Machine Location
Battery - Backup	H-10	70	Receiver - Tire Monitoring System	E-13	87
Camera - Object Detection	I-4	71	Relay - Condenser 1	G-2	88
Converter - 10 Amp	F-13	72	Relay - Condenser 2	F-2	89
ECM - CAES	J-7	73	Resistor - CAN C Data Link	I-8	90
ECM - Object Detection	J-2	74	Resistor - Radar CAN Data Link	J-2	91
Ground - External Cab Roof 1	C-10	75	Sensor - Louver Temperature	C-2	92
Ground - External Cab Roof 2	E-6	76	Sensor - Recirc Filter Temperature	C-2	93
Horn AS	F-8	77	Stic Control GP	D-4	94
Joystick Base	J-12	78	Switch - A/C High / Low Pressure	E-3	95
Joystick Handle	J-12	79	Switch - A/C Low Pressure	D-3	96
Motor - Blower	D-2	80	Switch - Armrest Position (LH)	C-4	97
Motor - Condenser Blower 1	F-2	81	Switch - Horn	H-12	98
Motor - Condenser Blower 2	F-2	82	Switch - Steering Lock	C-4	99
Motor - Front Washer	E-3	83	Switch - Throttle Lock Set / Resume	I-12	100
Motor - Precleaner (ATCH)	D-2	84	Switch - Turn Signal	I-12	101
Motor - Rear Washer	E-3	85	Thermostat - HVAC Evaporator	C-2	102
Receiver - CAES	J-10	86	Valve - Water	C-2	103

COMPONENT LOCATION
Volume 3 of 4 - CHASSIS

Component	Schematic Location	Machine Location
Alarm - Backup (834)	G-14	108
Alarm - Backup (836)	G-16	109
Alternator *NOT SHOWN	B-15	110
Batteries - 1-4 (834)	B-14	111
Batteries - 5-6 (ATCH 834)	A-14	112
Batteries - 7-10 (836)	B-12	113
Batteries - 11-12 (ATCH 836)	A-12	114
Breaker - Main (834)	B-14	115
Breaker - Main (836)	B-11	116
Camera - Rear	D-14	117
Ground - Engine	B-16	118
Ground - Frame 1	A-15	119
Ground - Frame 2	C-14	120
Horn - LH EU (836)	G-2	121
Horn - LH High (834)	J-2	122
Horn - LH High (836)	G-3	123
Horn - LH Low (834)	J-2	124
Horn - LH Low (836)	G-3	125
Horn - RH EU (836)	F-2	126
Horn - RH High (834)	H-2	127
Horn - RH High (836)	F-3	128
Horn - RH Low (834)	H-2	129
Horn - RH Low (836)	F-3	130
Junction Block 1	B-15	131
Junction Block 2	A-12	132
Junction Block Pass Through (834)	B-14	133
Junction Block Pass Through (836)	B-11	134
Motor - Starter LH (ATCH) *NOT SHOWN	B-16	135
Motor - Starter RH *NOT SHOWN	B-16	136
Radar - Rear	E-14	137
Receptacle - Auxiliary Start (834)	A-13	138
Receptacle - Auxiliary Start (836)	A-11	139
Resistor - Radar CAN Data Link	E-14	140
Sensor - Autolube Level *NOT SHOWN	J-8	141
Sensor - Autolube Pump Press *NOT SHOWN	J-8	142
Sensor - Brake Accumulator Pressure	C-4	143
Sensor - Front Axle Oil Temperature (834)	I-2	144
Sensor - Fuel Level (834)	J-4	145
Sensor - Fuel Level (836)	G-4	146
Sensor - Hydraulic Oil Temperature	C-4	147
Sensor - Impeller Clutch Pressure	J-13	148
Sensor - Lift Cylinder Position (836)	F-3	149
Sensor - Parking Brake Oil Pressure	B-8	150
Sensor - Rear Axle Oil Temperature	C-11	151

Component	Schematic Location	Machine Location
Sensor - Service Brake Pressure (834)	B-8	152
Sensor - Steer Press Reduct Valve Press (834)	B-8	153
Sensor - Steering Pump Oil Pressure	B-8	154
Sensor - Torque Converter Oil Temperature	J-13	155
Sensor - Transmission Input Speed	I-10	156
Sensor - Transmission Oil Temperature	I-10	157
Sensor - Transmission Out Speed (Leading)	J-10	158
Sensor - Transmission Out Speed (Trailing)	J-10	159
Solenoid - Autolube *NOT SHOWN	J-8	160
Solenoid - Axle Oil Cooler Bypass	C-11	161
Solenoid - Clutch 1 (Reverse)	J-12	162
Solenoid - Clutch 2 (Forward)	J-12	163
Solenoid - Clutch 3 (Speed 4)	J-11	164
Solenoid - Clutch 4 (Speed 3)	J-11	165
Solenoid - Clutch 5 (Speed 2)	J-11	166
Solenoid - Clutch 6 (Speed 1)	J-11	167
Solenoid - Engine Cooling Fan	J-14	168
Solenoid - Engine Cooling Fan Bypass	E-16	169
Solenoid - Engine Fan Reversing	E-16	170
Solenoid - Impeller Clutch	J-13	171
Solenoid - Implement Pilot Supply (834)	H-2	172
Solenoid - Implement Pilot Supply (836)	G-3	173
Solenoid - LH Tilt Cylinder Extend (834)	H-2	174
Solenoid - LH Tilt Cylinder Retract (834)	G-2	175
Solenoid - Lockup Clutch	J-13	176
Solenoid - Lower (834)	G-2	177
Solenoid - Lower (836)	F-3	178
Solenoid - Parking Brake	B-7	179
Solenoid - Raise (834)	H-1	180
Solenoid - Raise (836)	F-3	181
Solenoid - RH Tilt Cylinder Extend (834)	G-1	182
Solenoid - RH Tilt Cylinder Retract (834)	G-1	183
Solenoid - Starting Aid	D-15	184
Solenoid - Steering Excess Flow Control	A-7	185
Switch - Aftertreatment Fan Filter Bypass	C-4	186
Switch - Battery Disconnect (834)	A-15	187
Switch - Battery Disconnect (836)	A-12	188
Switch - Fan Filter Bypass (834)	C-4	189
Switch - Fan Return Filter Bypass	H-16	190
Switch - Ground Level Shutdown	J-16	191
Switch - Ground Level Stairway Lamp	I-16	192
Switch - Starter Lockout	H-16	193
Switch - Transmission Lockout	I-16	194
Switch - Transmission Oil Filter Bypass	H-8	195

COMPONENT LOCATION
Volume 4 of 4 - ENGINE

Component	Schematic Location	Machine Location
Actuator - ARD Air Flow Control	D-4	200
Coil As - ARD Fuel Flow Diverter	C-1	261
Coil As - ARD Ignition Transformer Primary	B-3	201
DEF Tank Header	E-3	202
ECM - Aftertreatment	E-8	203
ECM - Diesel Exhaust Fluid	F-4	204
ECM - Engine 1	F-8	205
ECM - Engine 2	E-4	206
Ground - CEM	B-3	207
Ground - Engine	A-5	208
Heater - ARD Fuel Nozzle	C-5	209
Injector - 1-6 With Brakes	F-1	210
Injector - 1-6 Without Brakes	E-1	211
Injector - DEF (8L)	C-3	212
Module - Aftertreatment ID	C-3	213
Module - Voltage Line Protection	F-3	214
Pump - DEF Dosing	F-3	215
Pump Gp - Fuel Priming	C-1	262
Relay - ARD Fuel Nozzle Heater	A-3	216
Relay - DEF Line Heater	F-3	217
Relay - Main PTU Power	F-3	218
Resistor - Aftertreatment CAN Data Link	E-5	219
Resistor - CAN A Data Link	E-4	220
Resistor - DCU CAN Data Link	E-3	221
Resistor - Engine CAN Data Link 1	E-5	222
Resistor - Engine CAN Data Link 2	C-2	223
Resistor - Injector Line Heater	F-3	224
Resistor - Line Heater Return	F-3	225
Resistor - Suction Line Heater	F-3	226
Sensor - Aftertreatment Sec Air Pressure	A-3	227
Sensor - Air Filter Restriction	E-5	228
Sensor - Air Inlet Temperature	E-5	229
Sensor - Analog FD/DPF Intake Temperature	B-3	230
Sensor - ARD Fuel Pressure 1 (Pilot)	B-3	231
Sensor - ARD Fuel Pressure 2 (Main)	B-3	232
Sensor - Barometric Pressure	A-1	233
Sensor - Charge Air Cool Out Temperature	B-2	234
Sensor - Coolant Level Low *NOT SHOWN	E-5	235
Sensor - Coolant Loss Pressure	B-8	236
Sensor - Coolant Temperature *NOT SHOWN	F-1	237
Sensor - Crankcase Pressure	F-2	238
Sensor - DPF Delta Pressure	A-3	239
Sensor - DPF Intake Pressure	A-3	240
Sensor - Engine Oil Pressure	B-1	241
Sensor - Engine Speed Sensor 1 (Crank)	B-3	242
Sensor - Engine Speed Sensor 2 (Cam)	B-3	243
Sensor - Fuel Press After Filter *NOT SHOWN	C-1	244
Sensor - Fuel Temp *NOT SHOWN	C-1	245
Sensor - Intake Manifold Pressure (IMP)	B-1	246
Sensor - Low Oil Level	A-1	247
Sensor - NRS Differential Pressure	A-1	248
Sensor - NRS Intake Pressure	B-1	249
Sensor - NRS Temperature	F-2	250
Sensor - SCR Inlet NOX	E-5	251
Sensor - SCR Outlet NOX	E-5	252
Sensor - SCR Temperature Inlet	A-3	253
Sensor - Water In Fuel	B-2	254
Solenoid - A/C Clutch	B-3	255
Solenoid - ARD Fuel 1 Control Actuator	A-3	256
Solenoid - ARD Fuel 2 Control Actuator	B-3	257
Solenoid - NRS Flow Balance Valve Actuator	A-1	258
Solenoid - NRS Valve Actuator	A-1	259
Switch As - Toggle (Fuel Filter)	C-1	263
Valve - Coolant Diverter	F-3	260

Always check component part numbers with Parts Manual for your specific machine.

CONNECTOR LOCATION
Volume 1 of 4 - MAIN CAB

Connector Number	Schematic Location
CONN 1 - To Cab Roof (CAES and IC)	J-16
CONN 2	I-16
CONN 3	G-16
CONN 4	E-16
CONN 5	D-16
CONN 6	C-13
CONN 7	C-13
CONN 8	J-10
CONN 9 - Expansion Connector	J-10
CONN 10 - VIMS Service Port	D-5
CONN 11 - To Transmission Shifter	D-5
CONN 12	H-5
CONN 13	I-5
CONN 14 - Cab Service Connector	C-1
CONN 15 - Aux Power Port	C-1
CONN 16	D-1
CONN 17	D-1
CONN 18	E-1
CONN 19	E-1
CONN 20	F-1
CONN 21	F-1
CONN 22	F-1
CONN 23	G-1
CONN 24	H-1

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 4 - CAB

Connector Number	Schematic Location
CONN 1	J-8
CONN 5	J-14
CONN 8	E-12
CONN 12	H-5
CONN 13	I-5
CONN 16	E-1
CONN 17	C-4
CONN 18	D-10, F-6
CONN 19	C-6
CONN 21	H-1
CONN 22	H-1
CONN 23	F-3
CONN 24	F-13
CONN 30 - To Seat Belt Reminder Switch	H-12
CONN 31 - Seat Connection	H-12
CONN 32	F-12
CONN 33	F-12
CONN 34	I-10
CONN 35	E-10
CONN 36	F-8, G-2
CONN 37 - Terrain Service Connector	I-5
CONN 38	J-5
CONN 39 - CAES Service Connector	J-5
CONN 40	G-4

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CONNECTOR LOCATION
Volume 3 of 4 - CHASSIS

Connector Number	Schematic Location
CONN 2	H-8
CONN 3	F-8
CONN 4	E-8
CONN 45	C-15
CONN 46	D-15
CONN 47	E-15
CONN 48	G-15
CONN 49	H-15
CONN 50	H-15
CONN 51	J-15
CONN 52	C-13
CONN 53	G-12
CONN 54	E-12
CONN 55	B-10
CONN 56	I-9
CONN 57	J-9
CONN 58	I-7
CONN 59	J-6
CONN 60	H-6, G-5, I-5
CONN 61	B-6
CONN 62	B-6
CONN 63	C-5
CONN 64	I-4
CONN 65	I-4
CONN 66	F-4
CONN 67	F-3
CONN 68	I-2
CONN 69	I-2
CONN 70	I-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 4 of 4 - ENGINE

Connector Number	Schematic Location
CONN 45	B-5
CONN 75	B-8
CONN 76	B-8
CONN 77 - User DefinedShutdown	B-5
CONN 78	C-5
CONN 79	D-5
CONN 80	D-5
CONN 81	F-5, C-1
CONN 82	F-5, C-1
CONN 83	F-5, F-2
CONN 84 - TDC Probe	B-3
CONN 85	E-3
CONN 86	E-3
CONN 87	F-2, E-2
CONN 88	E-2, D-2
CONN 89 - To Internal Harness W/ IVA	D-2
CONN 90 - External To IVA Harness	D-2
CONN 91	C-2
CONN 92 - To Priming Pump Harness	B-2
CONN 93	B-2
CONN 94	E-1, F-1

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 4 - MAIN CAB

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.

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

CID / MID / FMI
Volume 2 of 4 - CAB

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SPECIFICATIONS AND RELATED MANUALS
Volume 2 of 4 - CAB

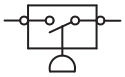
Related Electrical Service Manuals	
Title	**Form Number**
Cross Reference for Electrical Connectors:	REHS0970

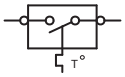
SPECIFICATIONS AND RELATED MANUALS
Volume 3 of 4 - CHASSIS

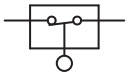
Related Electrical Service Manuals	
Title	**Form Number**
Cross Reference for Electrical Connectors:	REHS0970
Starting Motor:	SENR3860

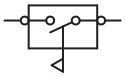
HARNESS and WIRE
Electrical Schematic Symbols

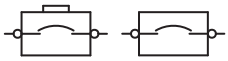
Symbols


Pressure Symbol


Temperature Symbol

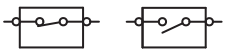

Level Symbol

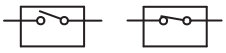

Flow Symbol

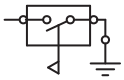

Circuit Breaker Symbol

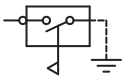
Symbols and Definitions

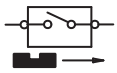

Fuse: A component in an electrical circuit that will open the circuit if too much current flows through it.

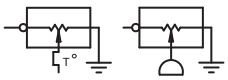

Switch (Normally Open): A switch that will close at a specified point (temp, press, etc.). The circle indicates that the component has screw terminals and a wire can be disconnected from it.

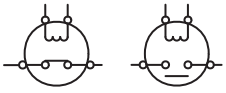

Switch (Normally Closed): A switch that will open at a specified point (temp, press, etc.). No circle indicates that the wire cannot be disconnected from the component.

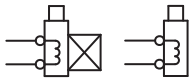

Ground (Wired): This indicates that the component is connected to a grounded wire. The grounded wire is fastened to the machine.

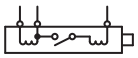

Ground (Case): This indicates that the component does not have a wire connected to ground. It is grounded by being fastened to the machine.


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.

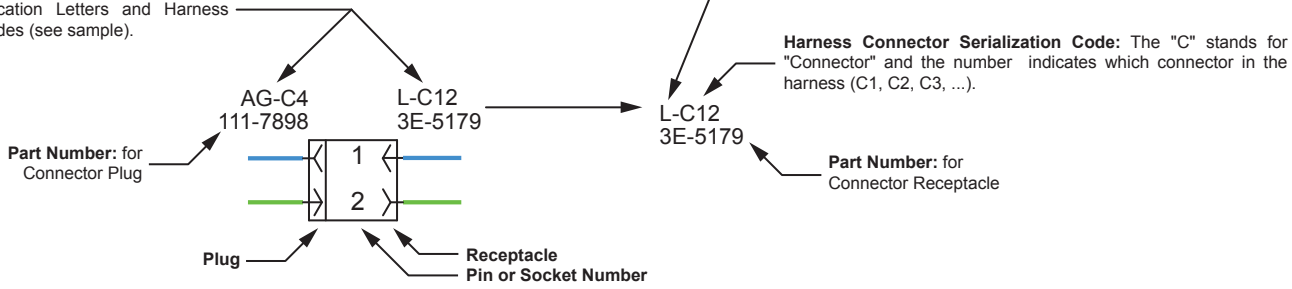

Relay (Magnetic Switch): A relay is an electrical component that is activated by electricity. It has a coil that makes an electromagnet when current flows through it. The electromagnet can open or close the switch part of the relay.

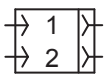

Solenoid: A solenoid is an electrical component that is activated by electricity. It has a coil that makes an electromagnet when current flows through it. The electromagnet can open or close a valve or move a piece of metal that can do work.


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.

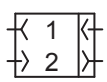
Harness and Wire Symbols

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

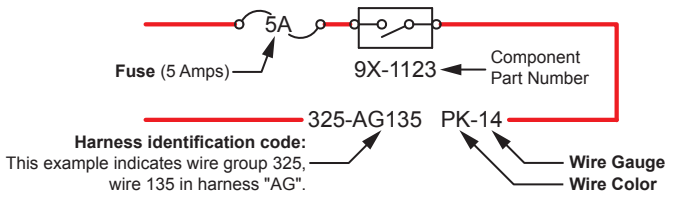




Deutsch connector: Typical representation of a Deutsch connector. The plug contains all sockets and the receptacle contains all pins.



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



WIRE GROUP COLOR DESCRIPTIONS

(black)	GROUND CIRCUIT
(red)	WIRES THAT HAVE SYSTEM VOLTAGE WHEN THE KEY SWITCH IS OFF
(blue)	WIRES THAT HAVE SYSTEM VOLTAGE WHEN THE KEY SWITCH IS ON
(light blue)	VOLTAGE CONVERTER OUTPUT CIRCUIT
(orange)	STARTING CIRCUIT
(purple)	POWERTRAIN CONTROL CIRCUIT
(green)	MONITOR CIRCUIT
(olive)	HEATER AND AIR CONDITIONER CIRCUIT
(tan)	TURN SIGNAL / WIPER WASHER CIRCUIT
(green/black stripe)	CAT DATA LINK
(pink/black stripe)	CAN DATA LINK
(red/black stripe)	PRODUCT LINK DATA LINK
(light orange stripe)	IMPLEMENT CONTROL CIRCUIT
(salmon/black stripe)	CAN DATA LINK A
(lavender/black stripe)	CAN DATA LINK B

OTHER COLOR DESCRIPTIONS

(grey-blue)	HIGHWAYS

CALLOUTS

Callout Number (Machine Location from Component Locations Table) → (52) VALVE GP - CONTROL ← Component Name

138-1234 ← Part Number

SYMBOL	DESCRIPTION
┼•	CIRCUIT CONNECTED
┼	CIRCUIT NOT CONNECTED
⏚	ELECTRICAL CONNECTION TO MACHINE STRUCTURE
⏚	INTERNAL ELECTRICAL CONNECTION TO SURFACE OF COMPONENT
→)—	CONNECTOR
H#	CIRCUIT GROUPING DESIGNATION
- - -	ATCH WIRE, CABLE, COMPONENT
○-○	SPLICE
○	BLADE, SPADE, 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

REF DES	PART NUMBER	VERSION	TYPE	SHEET		DESCRIPTION
A	325-5753	0	HARNESS	2		REMOTE CONDENSER
C	330-3356	2	BUSS BAR	1		BUSS BAR BETWEEN POLES OF SWITCHED B+ FUSEBLOCK
G	398-9398	0	HARNESS	2		A/C WM JUMPER
M	357-5020	2	BUSS BAR	1		BUSS BAR BETWEEN MAIN RELAY AND UNSWITCHED B+ FUSEBLOCK
N	398-9400	0	BUSS BAR	1		BUSS BAR BETWEEN MACHINE POWER DISTRIBUTION RELAY AND BATTERY MANAGEMENT FUSEBLOCK
U	433-2252	0	HARNESS	1		MAIN CAB
AC	432-8440	0	HARNESS	2		HVAC
CK	443-7474	1	HARNESS	2		CAT DETECT DISPLAY
CL	433-6040	0	HARNESS	2		CAES LITE OR SOLO USING BRONZE DISPLAY CAB HARNESSING
EG	398-9397	1	HARNESS	2		ROOF LIGHT HARNESS (988/83X WITHOUT HORNS)
EJ	369-5938	1	HARNESS	2		988 IMPLEMENT POD
EX	369-5939	2	HARNESS	2		RH POD - MODULAR JOYSTICK (PROPHET)
FC	369-5931	1	CABLE ASSEMBLY	1		2/0 CABLE FROM CAB JUNCTION BLOCK TO BUSSBAR BETWEEN RELAYS 836
FC	369-5934	1	CABLE ASSEMBLY	1		2/0 CABLE FROM CAB JUNCTION BLOCK TO BUSSBAR BETWEEN RELAYS 988/834
GP	369-5935	1	WIRE ASSEMBLY	1		MAIN RELAY TO BLOCK AS.
LH	387-4488	1	HARNESS	1		STIC STEER
NA	303-8524	0	HARNESS	2		CB RADIO JUMPER
PY	346-1083	2	HARNESS	2		PCS PRINTER HARNESS
RE	398-9395	2	HARNESS	2		CAB UPPER ROOF JUMPER (8X6)
RH	433-2251	1	HARNESS	2		CAB ROOF HARNESS FOR 836 WITH HID WIRES
TP	352-0691	1	HARNESS	2		TIRE MONITORING HARNESS
UE	325-5750	1	HARNESS	2		CAES OUTSIDE CAB
UF	369-5948	0	HARNESS	2		CAES OUTSIDE MS952 TO MS972 JUMPER
UH	431-5058	1	HARNESS	1		HVAC JUMPER FOR REMOVING LDM MOTOR POWER/GND
UJ	431-5059	0	HARNESS	1		HVAC JUMPER FOR REMOVING LDM SIGNAL
WP	369-5944	2	HARNESS	2		WASHER PUMP IN HVAC MODULE
YW	369-5959	2	CABLE ASSEMBLY	1		COAX FROM GSM POS TO GESM ANTENNA

THIS SCHEMATIC IS FOR THE 834K WHEEL DOZER AND 836K LANDFILL COMPACTOR ELECTRICAL SYSTEM

VOLUME 1 of 4: MAIN CAB

MEDIA NUMBER: RENR9783-02

SCHEMATIC PART NUMBER: 356-6902, CHANGE: 00, VERSION: -

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.

Note: Refer to the Parts Manual using a specific serial number prefix in SIS before ordering parts from this schematic.

SYMBOL	DESCRIPTION
	CIRCUIT CONNECTED
	CIRCUIT NOT CONNECTED
	ELECTRICAL CONNECTION TO MACHINE STRUCTURE
	INTERNAL ELECTRICAL CONNECTION TO SURFACE OF COMPONENT
	CONNECTOR
H#	CIRCUIT GROUPING DESIGNATION
---	ATCH WIRE, CABLE, COMPONENT
	SPLICE
o	BLADE, SPADE, RING OR SCREW TERMINAL

CALLOUTS

Callout Number (Machine Location from Component Locations Table) → (52) VALVE GP - CONTROL ← Component Name
138-1234 ← Part Number

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
- POWERTRAIN CONTROL CIRCUIT
- CAES CIRCUIT
- ENGINE CONTROL CIRCUIT
- HEATER AND AIR CONDITIONER CIRCUIT
- TURN SIGNAL / WIPER WASHER CIRCUIT
- CAT DATA LINK
- CAN DATA LINK
- RS-232 / RS-485 DATA LINK
- IMPLEMENT CIRCUIT
- CAN DATA LINK A
- CAN DATA LINK C

OTHER COLOR DESCRIPTIONS

- HIGHWAYS

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

REF DES	PART NUMBER	VERSION	TYPE	SHEET	LOCATION	DESCRIPTION
A	325-5753	2	HARNESS	2	G-19	REMOTE CONDENSER
C	330-3356	2	BUSS BAR	1	D-12	BUSS BAR BETWEEN POLES OF SWITCHED B+ FUSEBLOCK
G	398-9398	0	HARNESS	2	H-20	A/C WM JUMPER
M	357-5020	2	BUSS BAR	1	B-17	BUSS BAR BETWEEN MAIN RELAY AND UNSWITCHED B+ FUSEBLOCK
N	398-9400	0	BUSS BAR	1	A-17	BUSS BAR BETWEEN MACHINE POWER DISTRIBUTION RELAY AND BATTERY MANAGEMENT FUSEBLOCK
U	433-2252	0	HARNESS	1	E-4	MAIN CAB
AC	432-8440	0	HARNESS	2	B-23	HVAC
CK	443-7474	1	HARNESS	2	I-19	CAT DETECT DISPLAY
CL	433-6040	0	HARNESS	2	J-23	CAES LITE OR SOLO USING BRONZE DISPLAY CAB HARNESSING
EG	398-9397	1	HARNESS	2	F-23	ROOF LIGHT HARNESS (988/83X WITHOUT HORNS)
EJ	369-5938	1	HARNESS	2	H-35	988 IMPLEMENT POD
EX	369-5939	2	HARNESS	2	G-36	RH POD - MODULAR JOYSTICK (PROPHET)
FC	369-5931	1	CABLE ASSEMBLY	1	A-18	2/0 CABLE FROM CAB JUNCTION BLOCK TO BUSSBAR BETWEEN RELAYS 836
FC	369-5934	1	CABLE ASSEMBLY	1	A-18	2/0 CABLE FROM CAB JUNCTION BLOCK TO BUSSBAR BETWEEN RELAYS 988/834
GP	369-5935	1	WIRE ASSEMBLY	1	B-17	MAIN RELAY TO BLOCK AS.
LH	387-4488	1	HARNESS	1	D-24	STIC STEER
NA	303-8524	0	HARNESS	2	B-36	CB RADIO JUMPER
PY	346-1083	2	HARNESS	2	E-20	PCS PRINTER HARNESS
RE	398-9395	2	HARNESS	2	E-30	CAB UPPER ROOF JUMPER (8X6)
RH	433-2251	2	HARNESS	2	D-30	CAB ROOF HARNESS FOR 836 WITH HID WIRES
TP	352-0691	1	HARNESS	2	B-34	TIRE MONITORING HARNESS
UE	325-5750	1	HARNESS	2	K-30	CAES OUTSIDE CAB
UF	369-5948	0	HARNESS	2	L-33	CAES OUTSIDE MS952 TO MS972 JUMPER
UH	431-5058	1	HARNESS	1	C-15	HVAC JUMPER FOR REMOVING LDM MOTOR POWER/GND
UJ	431-5059	0	HARNESS	1	C-15	HVAC JUMPER FOR REMOVING LDM SIGNAL
WP	369-5944	2	HARNESS	2	D-20	WASHER PUMP IN HVAC MODULE
YW	369-5959	2	CABLE ASSEMBLY	1	F-13	COAX FROM GSM POS TO GESM ANTENNA

THIS SCHEMATIC IS FOR THE 834K WHEEL DOZER AND 836K LANDFILL COMPACTOR ELECTRICAL SYSTEM

VOLUME 2 of 4: CAB

MEDIA NUMBER: RENR9783-02

SCHEMATIC PART NUMBER: 356-6902, CHANGE: 00, VERSION: -

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.

Note: Refer to the Parts Manual using a specific serial number prefix in SIS before ordering parts from this schematic.

CALLOUTS

Callout Number (Machine Location from Component Locations Table) → (52) VALVE GP - CONTROL ← Component Name
138-1234 ← Part Number

IDENT	PART NO	CHG	LOC/REF	NOTE	DESCRIPTION
			HARNESS AS.		
H	432-8734	00	PG 2, B-12	STANDARD	HVAC COMPRESSOR
AF	425-0513	00	PG 1, B-6	STANDARD	HYDRAULIC TANK
AH	425-0485	00	PG 1, K-2	ATCH	RH FRONT FLOOD
AL	425-0485	00	PG 1, L-5	ATCH	LH FRONT FLOOD
AM	425-0487	00	PG 1. J-6	ATCH	FRONT 988
AN	360-8195	00	PG 1, K-3	ATCH	RIDE CONTROL
AP	374-6424	00	PG 1, K-5	ATCH	PAYLOAD MONITOR
AT	360-8169	00	PG 1, H-13	ATCH	REAR - 988/834
AU	360-8170	01	PG 1, H-16	ATCH	REAR - 836
AV	360-8188	00	PG 1, H-5	ATCH	IMPLEMENT VALVE 988
AW	374-6452	00	PG 1, E-17	ATCH	START AID SOLENOID
AY	432-8733	01	PG 2, C-13	ATCH	HRC APPLICATION SIDE OF ENGINE ECM
CE	374-6451	00	PG 1, C-14	ATCH	REAR AXLE TEMP SENSOR
CF	425-0505	00	PG 1, L-16	ATCH	TORQUE CONVERTER 988
CG	360-8198	00	PG 1, J-16	ATCH	TORQUE CONVERTER 83X
CN	425-0500	00	PG 1, J-9	STANDARD	MAIN CHASSIS - REAR
CP	360-8175	01	PG 1, L-10	STANDARD	TRANSMISSION (STANDARD)
CY	345-0548	00	PG 1, J-2	ATCH	LIFT/TILT SENSOR (HIGH LIFT)
CY	345-0547	00	PG 1, J-2	ATCH	LIFT/TILT SENSOR STANDARD LIFT MACHINE
EF	425-0501	00	PG 1, K-7	ATCH	FUEL LEVEL (988) AND TRANSMISSION OIL FILTER BYPASS
EK	425-0510	00	PG 1, K-7	ATCH	TRANSMISSION OIL FLTR BYPASS SWITCH JUMPER 836/834
FA	374-6447	01	PG 1, F-17	ATCH	REVERSING FAN 836 STD (ATCH 988/834)
FH	337-0865	01	PG 1, G-2	ATCH	RH FRONT FLOOD 834
FL	337-0867	01	PG 1, G-2	ATCH	LH FRONT FLOOD 834
FM	345-0545	00	PG 1, G-4	ATCH	IMPLEMENT VALVE 834
FR	309-2719	00	PG 1, G-2	ATCH	FRONT AXLE TEMP (834)
GA	360-8196	00	PG 1, D-4	ATCH	IMPLEMENT VALVE (836)
GE	425-0507	00	PG 1, J-17	ATCH	BUMPER (836)
GE	425-0511	00	PG 1, J-17	ATCH	BUMPER FOR 988 AND 834
GH	260-0264	01	PG 1, C-4	ATCH	ABP 834/836
GR	345-0514	00	PG 1, G-6	ATCH	FRONT 834
GT	345-0513	00	PG 1, E-6	ATCH	FRONT 836
HC	374-6425	00	PG 1, F-13	ATCH	988/934 OBJECT DETECTION
HE	213-7866	00	PG 1, D-3	ATCH	836 HORN EXTENSION FOR EU
JY	425-0499	00	PG 2, H10	ATCH	HRC ENGINE TO PETU JUMPER
LT	425-0512	00	PG 2, B-17	STANDARD	COOLANT LOSS AND SECOND STARTER
LY	432-8732	00	PG 3, F-4	ATCH	LRC JI APPLICATION SIDE
PM	425-0497	00	PG 1, B-7	ATCH	988/83X BRAKE PRESSURE AND SOLENOID HARNESS
PU	372-3021	00	PG 2, B-11	ATCH	HRC PURGE LAMP JUMPER
PW	387-7994	00	PG 2, J-10	ATCH	HRC WEMA EXTENSION JUMPER
RL	425-0506	00	PG 1,L-7	ATCH	AUTOLUBE
RT	374-6439	00	PG 2, B-18	ATCH	LH STARTER JUMPER

SYMBOL	DESCRIPTION
┼ (dot)	CIRCUIT CONNECTED
┼	CIRCUIT NOT CONNECTED
⏚	ELECTRICAL CONNECTION TO MACHINE STRUCTURE
⏚ (dotted)	INTERNAL ELECTRICAL CONNECTION TO SURFACE OF COMPONENT
→)—	CONNECTOR
H#	CIRCUIT GROUPING DESIGNATION
- - -	ATCH WIRE, CABLE, COMPONENT
○-○	SPLICE
○	BLADE, SPADE, 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

IDENT	PART NO	CHG	LOC	NOTE	DESCRIPTION
			CABLE AS.		
AA	118-1277	01	PG 1, B-13	ATCH	BAT 1 (NEG) TO BAT 2 (POS) 988/834
CC	374-6422	00	PG 1, B-18	ATCH	POSITIVE JUNCTION TO STARTER 2 (988/834)
GG	374-6428	01	PG 1, B-17	ATCH	POS JUNC BLOCK TO STARTER 1 (988/834)
GN	374-8429	01	PG 1, B-17	STANDARD	ALTERNATOR GROUND CABLE
KK	425-0493	00	PG 1, A-13	ATCH	CAB DISCONNECT SWITCH TO FRAME (836)
LA	260-3721	01	PG 1, A-15	ATCH	BAT 5 (NEG) TO BAT 6 (POS)
LE	372-0891	00	PG 1, A-14	ATCH	BAT 5 (POS) TO POS JUNCTION BLOCK
LG	425-0489	00	PG 1, A-13	ATCH	BAT 9 (NEG) TO NEG JUNCTION BLOCK
LJ	118-1277	01	PG 1, A-13	ATCH	BAT 11 (NEG TO BAT 12 (POS) 836
LL	399-3851	01	PG 1, A-16	ATCH	BUSS BAR DISCONNECT SWITCH TO AUX CHARGING RECEPTACLE 988/834
LN	425-0495	00	PG 1, A-12	ATCH	NEG BAT 12 TO NEG JUNCTION BLOCK (836)
ML	337-5175	01	PG 1, B-17	STANDARD	RH STARTER (STANDARD) TO FRAME GROUND (988/834/836)
NN	118-1277	01	PG 1, B-13	ATCH	BAT 3 (+) TO BAT 4 (-) 988/834
PP	301-8685	02	PG 1, B-18	ATCH	LH STARTER (ATTACH) TO FRAME GROUND (836)
TT	387-7991	00	PG 1, A-16	ATCH	BUMPER DISCONNECT SWITCH TO FRAME GND 988/834
UU	374-6428	01	PG 1, A-17	STANDARD	RH STARTER (STANDARD) TO ALTERNATOR B+ (POS)
XX	382-9015	00	PG 1, B-17	ATCH	RH STARTER GROUND TO ENGINE BLOCK (MEC)
XX	306-4129	02	PG 1, B-17	STANDARD	RH STARTER GROUND TO ENGINE BLOCK (LWL)
WW	372-0890	00	PG 1, B-14	ATCH	BAT 2 NEG TO BAT 4 NEG TO NEG JUNCTION BLOCK 988/834
WX	387-7997	00	PG 1, A-14	ATCH	BAT 6 NEG TO NEG JUNCTION BLOCK 988/834
YC	425-0490	00	PG 1, B-11	ATCH	MAIN BREAKER TO CAB JUNCTION BLOCK (836)
YG	425-0496	00	PG 1, B-15	ATCH	MAIN BREAKER TO CAB JUNCTION BLOCK (988/834)
YK	372-3030	01	PG 1, A-12	ATCH	POS JUNCTION BLOCK TO RH STARTER B+ (836)
YM	372-3041	00	PG 1, A-12	ATCH	POS JUNCTION BLOCK TO LH ATTACH STARTER B+ (836)
YN	425-0494	00	PG 1, A-13	ATCH	ATTACH BAT 11 POS TO POS JUNCTION BLOCK (836)
YP	118-1277	01	PG 1, B-13	ATCH	BAT 9 POS TO BAT 10 NEG (836)
YR	118-1277	01	PG 1, B-13	ATCH	BAT 8 POS TO BAT 7 NEG (836)
YU	389-3851	01	PG 1, A-12	ATCH	BUSS BAR DISCONNECT SWITCH TO AUX CHARGING RECEPTACLE 836
YV	425-0488	00	PG 1, B-13	ATCH	POS AUX RECEPTACLE TO BAT 7 POS AND BAT 10 POS (836)
YX	399-3851	00	PG 1, A-13	ATCH	BUSS BAR FROM AUX RECEPTACLE TO NEG DISCONNECT SWITCH (836)
YY	372-3019	00	PG 1, B-16	ATCH	POS JUNCTION TO POS JUNCTION AND BREAKER (988/834)

NOTE A: ASSEMBLE TERMINALS TO DESIGNATED STUD
NOTE C: WIRES ARE TWISTED. TWISTED 1 TWIST PER 25mm.

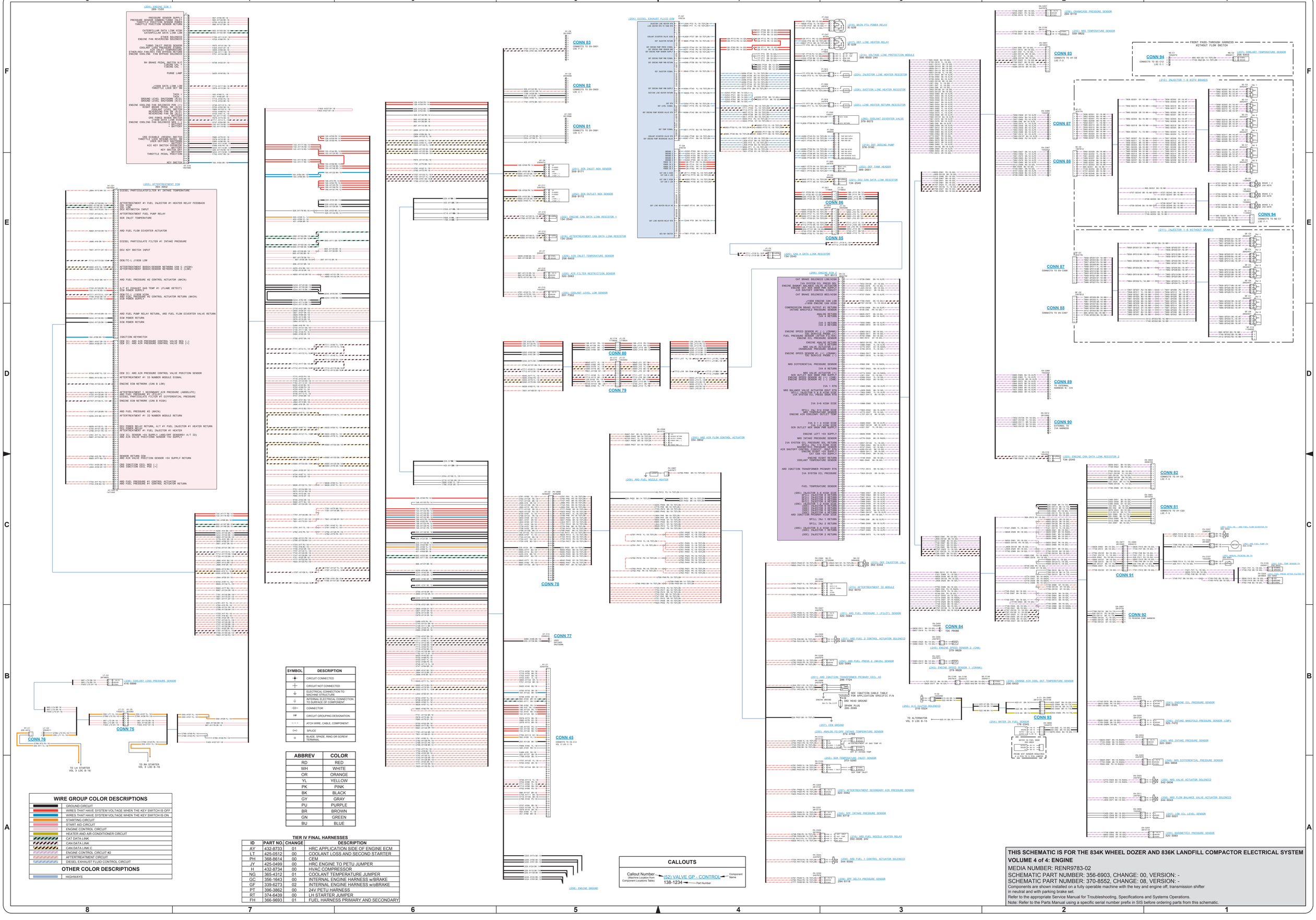
WIRE GROUP COLOR DESCRIPTIONS

- GROUND CIRCUIT
- WIRES THAT HAVE SYSTEM VOLTAGE WHEN THE KEY SWITCH IS OFF
- WIRES THAT HAVE SYSTEM VOLTAGE WHEN THE KEY SWITCH IS ON
- STARTING CIRCUIT
- START AID CIRCUIT
- POWERTRAIN CONTROL CIRCUIT
- MONITOR CIRCUIT
- ENGINE CONTROL CIRCUIT
- HEATER AND AIR CONDITIONER CIRCUIT
- TURN SIGNAL / WIPER WASHER CIRCUIT
- CAT DATA LINK
- CAN DATA LINK
- IMPLEMENT CONTROL CIRCUIT
- CAN DATA LINK A
- CAN DATA LINK B
- OBJECT DETECTION CAN DATA LINK
- CAN DATA LINK D

OTHER COLOR DESCRIPTIONS

- HIGHWAYS

THIS SCHEMATIC IS FOR THE 834K WHEEL DOZER AND 836K LANDFILL COMPACTOR ELECTRICAL SYSTEM
VOLUME 3 of 4: CHASSIS
MEDIA NUMBER: RENR9783-02
SCHEMATIC PART NUMBER: 356-6903, CHANGE: 00, VERSION: -
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.
Note: Refer to the Parts Manual using a specific serial number prefix in SIS before ordering parts from this schematic.



SYMBOL	DESCRIPTION
	CIRCUIT CONNECTED
	CIRCUIT NOT CONNECTED
	ELECTRICAL CONNECTION TO MACHINE STRUCTURE
	INTERNAL ELECTRICAL CONNECTION TO SURFACE OF COMPONENT
	CONNECTOR
	CIRCUIT GROUPING DESIGNATION
	ATCH WIRE, CABLE, COMPONENT
	SPLICE
	BLADE, SPADE, 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

- GROUND CIRCUIT
- WIRES THAT HAVE SYSTEM VOLTAGE WHEN THE KEY SWITCH IS OFF
- WIRES THAT HAVE SYSTEM VOLTAGE WHEN THE KEY SWITCH IS ON
- STARTING CIRCUIT
- START AID CIRCUIT
- ENGINE CONTROL CIRCUIT
- HEATER AND AIR CONDITIONER CIRCUIT
- CAT DATA LINK
- CAN DATA LINK
- CAN DATA LINK C
- ENGINE CONTROL CIRCUIT #2
- AFTERTREATMENT CIRCUIT
- DIESEL EXHAUST FLUID CONTROL CIRCUIT

OTHER COLOR DESCRIPTIONS

- HIGHWAYS

TIER IV FINAL HARNESSES

ID	PART NO.	CHANGE	DESCRIPTION
AY	432-8733	01	HRC APPLICATION SIDE OF ENGINE ECM
LT	425-0512	00	COOLANT LOSS AND SECOND STARTER
PH	368-8614	00	CEM
JY	425-0499	00	HRC ENGINE TO PETU JUMPER
H	432-8734	00	HVAC COMPRESSOR
NG	365-4312	01	COOLANT TEMPERATURE JUMPER
GC	356-1643	00	INTERNAL ENGINE HARNESS w/BRAKE
GF	339-6273	02	INTERNAL ENGINE HARNESS w/oBRAKE
PT	396-3862	00	24V PETU HARNESS
RT	374-6439	00	LH STARTER JUMPER
FH	366-9693	01	FUEL HARNESS PRIMARY AND SECONDARY

CALLOUTS

Callout Number (Machine Location from Component Locations Table) — (52) VALVE GP - CONTROL — Component Name

138-1234 — Part Number

THIS SCHEMATIC IS FOR THE 834K WHEEL DOZER AND 836K LANDFILL COMPACTOR ELECTRICAL SYSTEM

VOLUME 4 of 4: ENGINE

MEDIA NUMBER: RENR9783-02

SCHEMATIC PART NUMBER: 356-6903, CHANGE: 00, VERSION: -

SCHEMATIC PART NUMBER: 370-8552, CHANGE: 08, VERSION: -

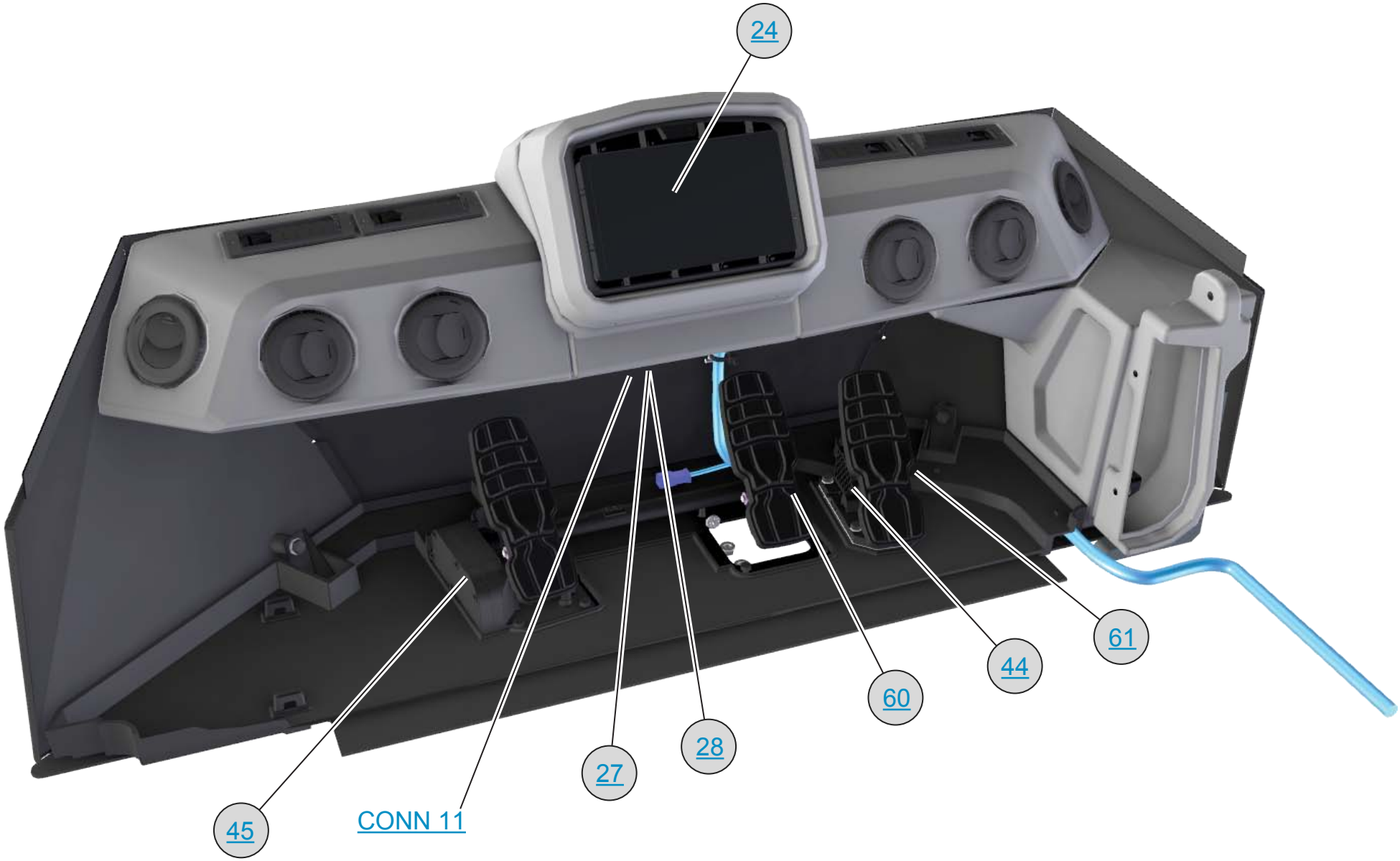
Components are shown installed on a fully operable machine with the key and engine off, transmission shifter in neutral and with parking brake set.

Refer to the appropriate Service Manual for Troubleshooting, Specifications and Systems Operations.

Note: Refer to the Parts Manual using a specific serial number prefix in SIS before ordering parts from this schematic.

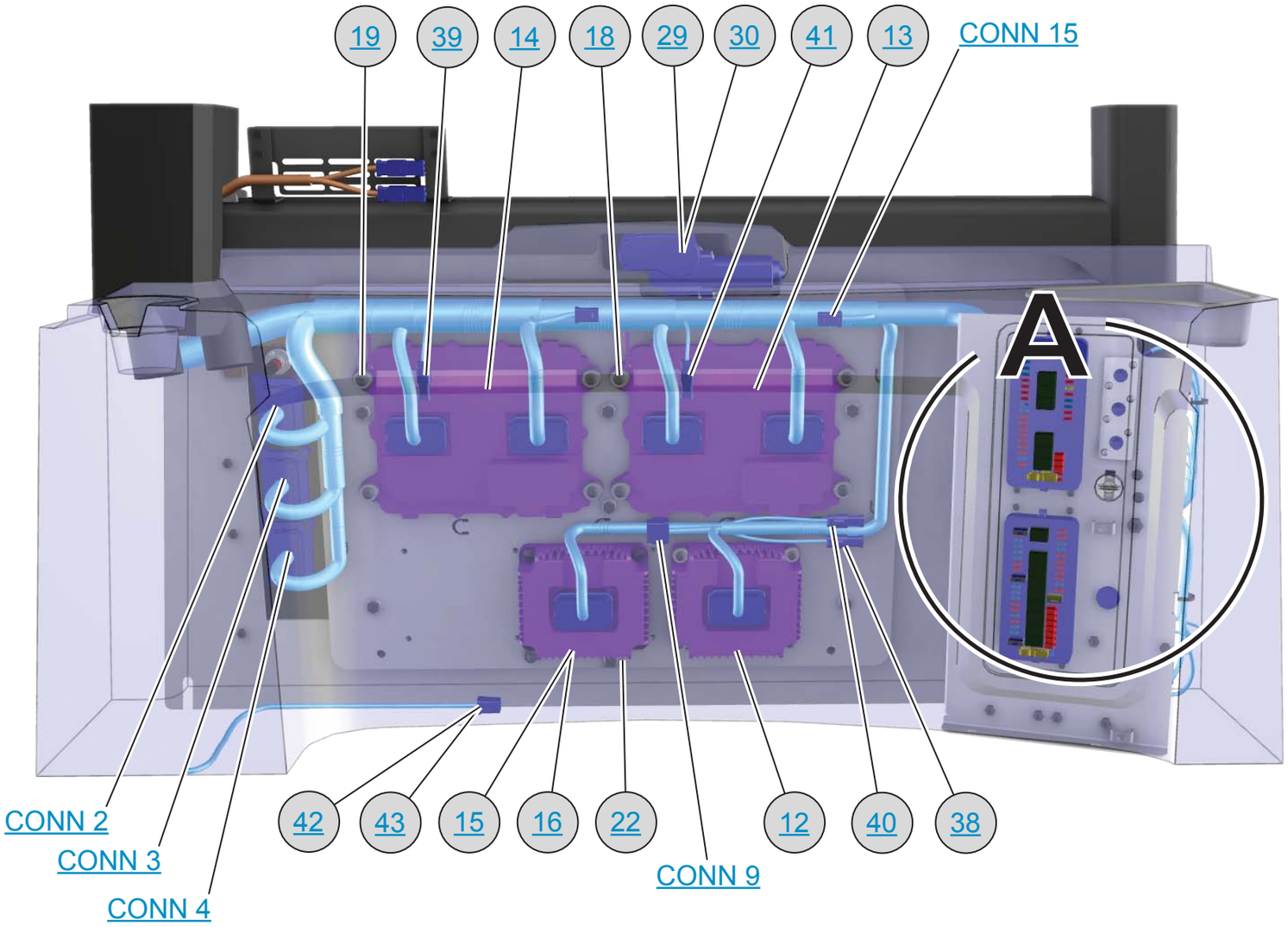
CAB FRONT VIEW

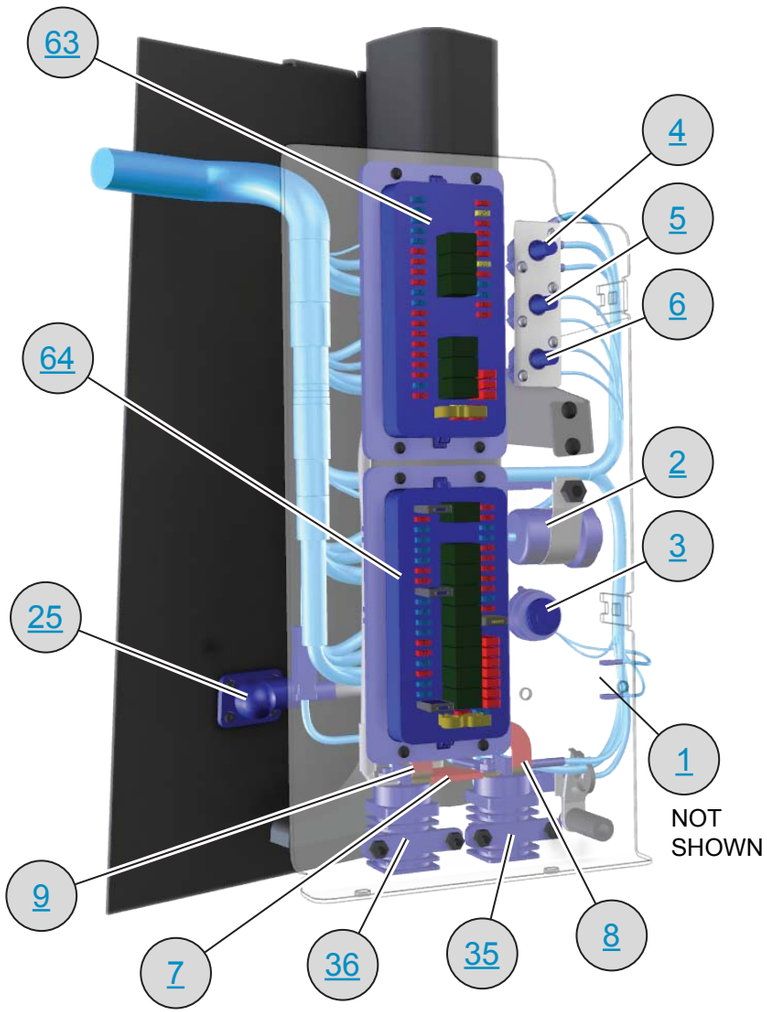
VIEW ALL CALLOUTS



CAB REAR VIEW

VIEW ALL CALLOUTS

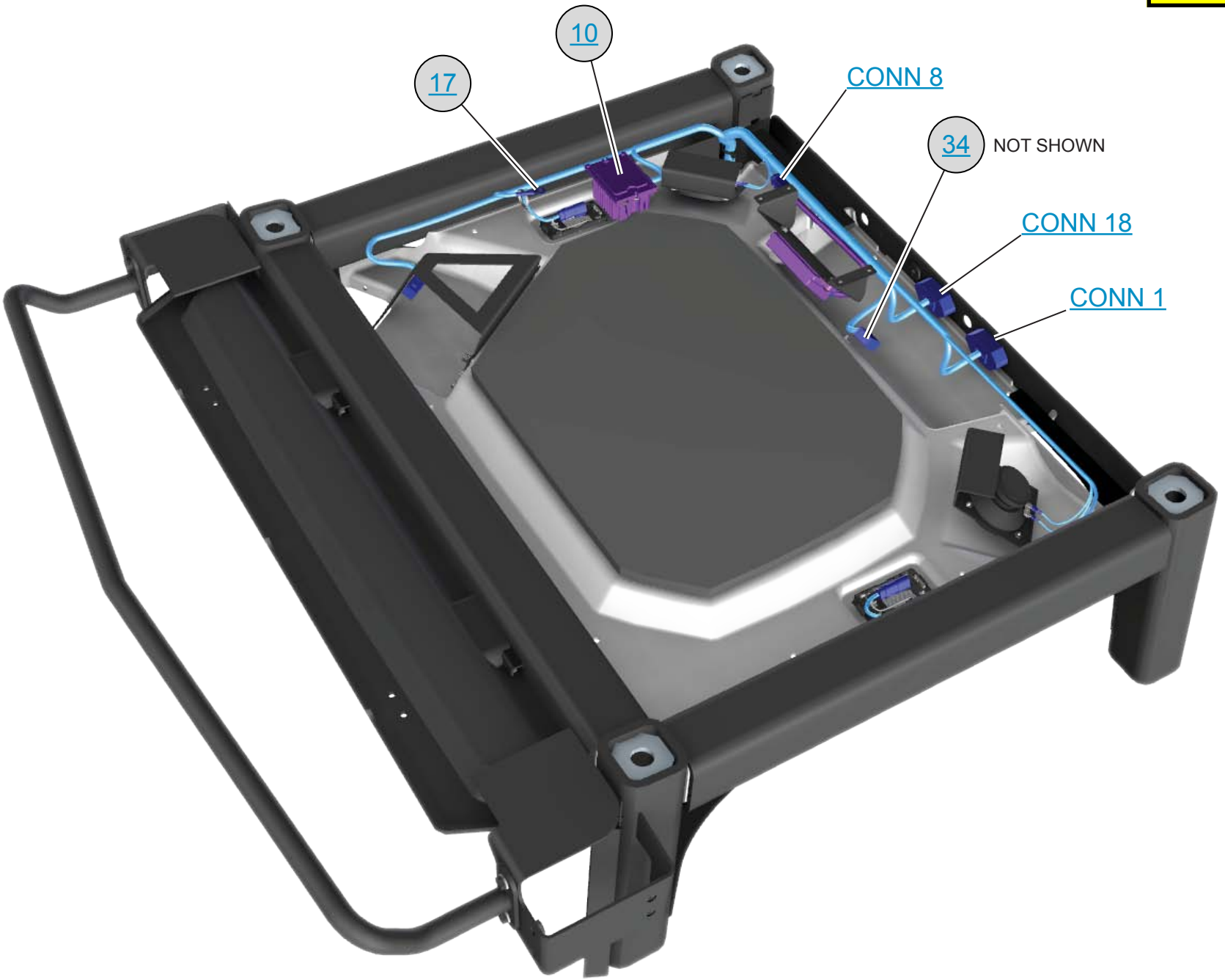




VIEW OF AREA “A”
(ROTATED FOR CLARITY)

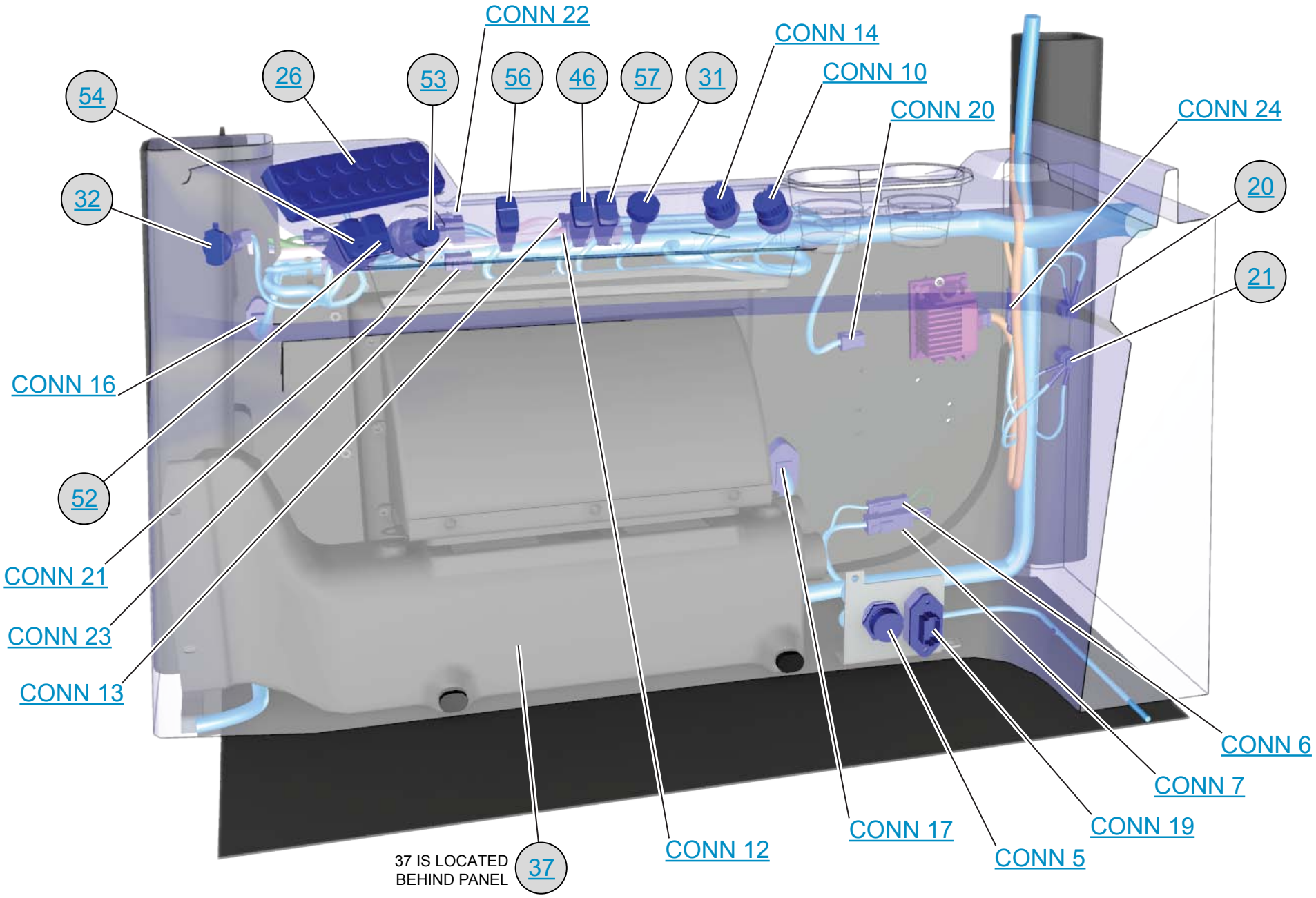
HEADLINER AND ROOF VIEW

VIEW ALL CALLOUTS



RH CONSOLE VIEW

VIEW ALL CALLOUTS

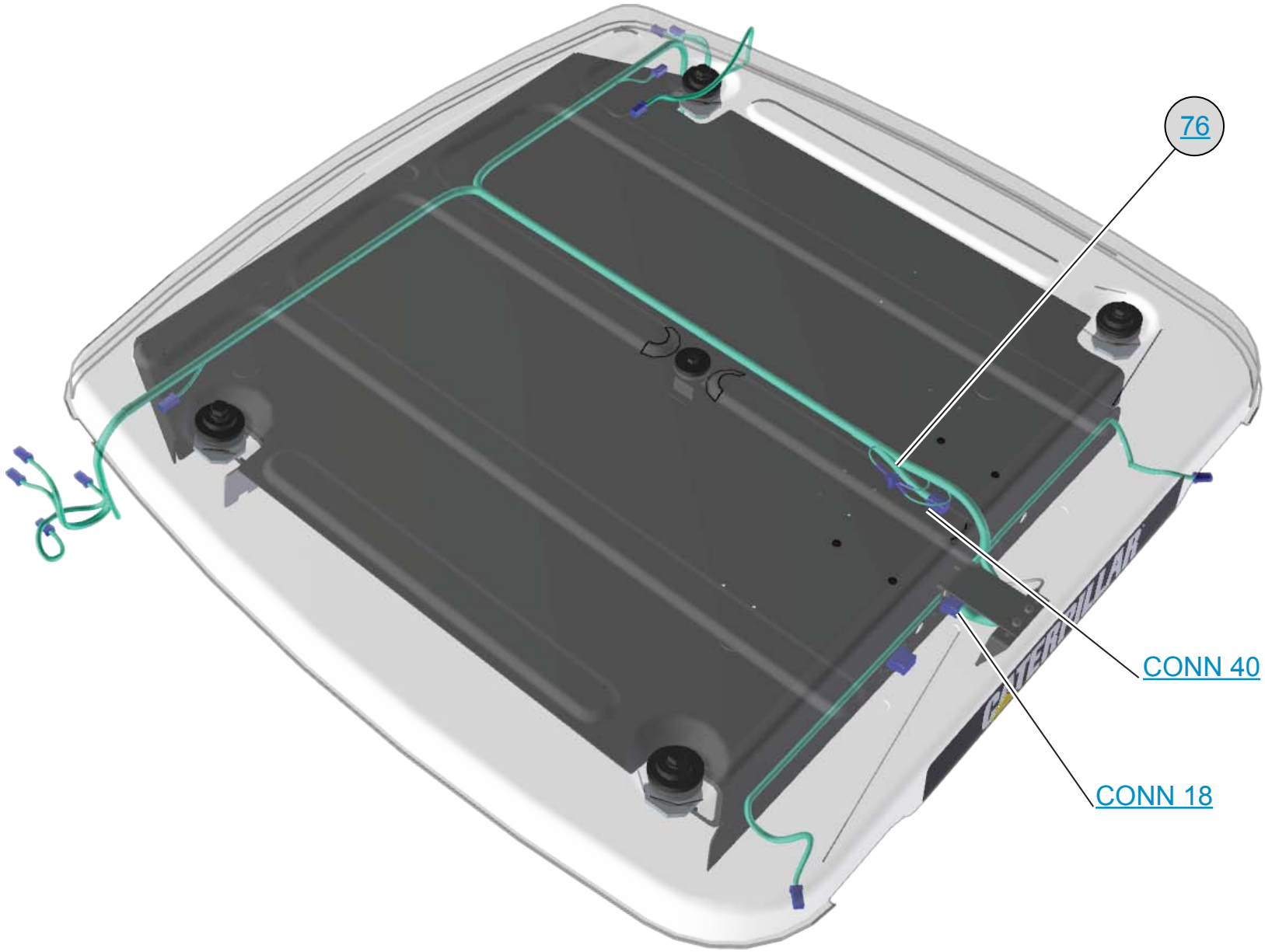


RH WINDSHIELD PILLAR VIEW

VIEW ALL CALLOUTS

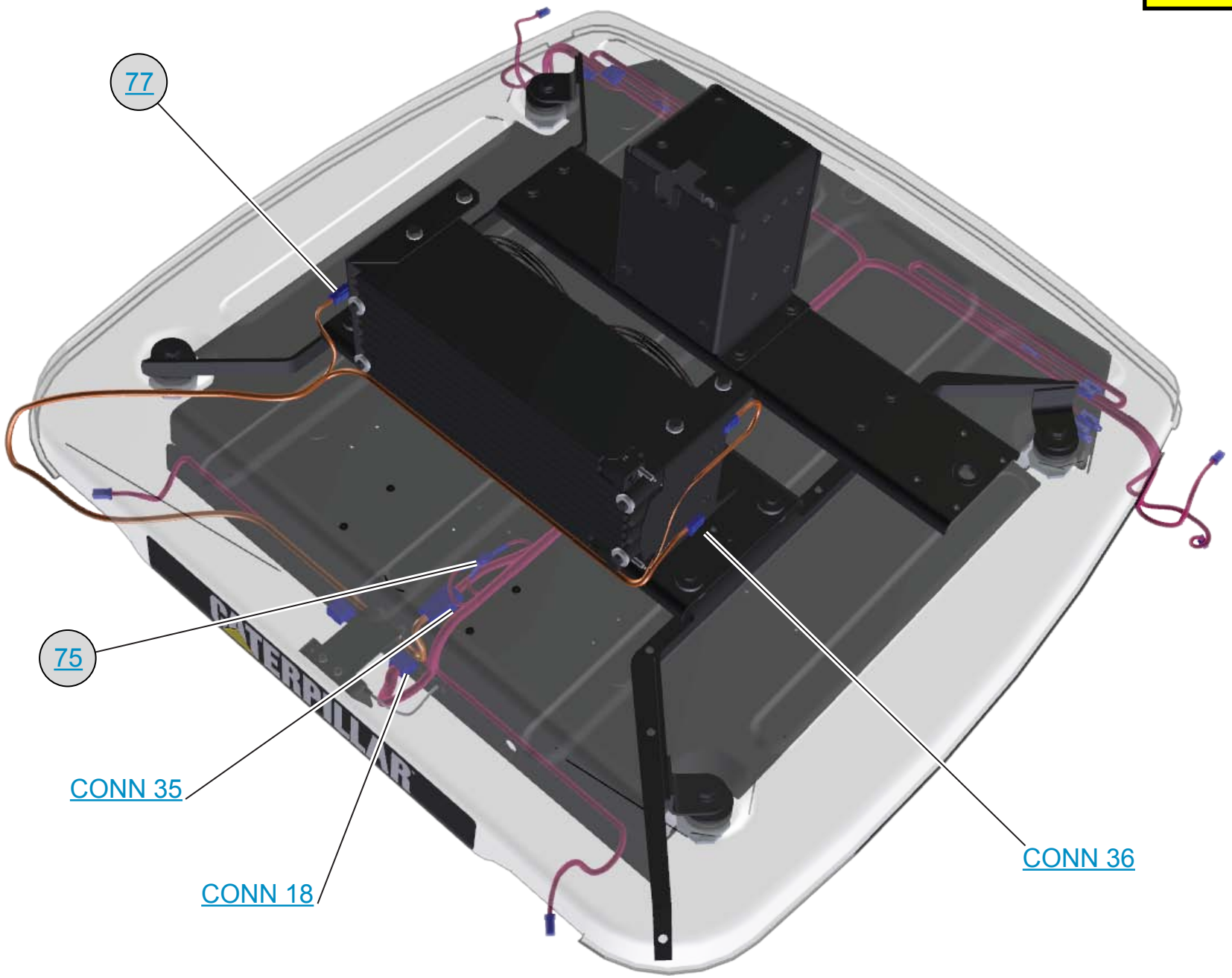
834 ROOF WIRING

VIEW ALL CALLOUTS



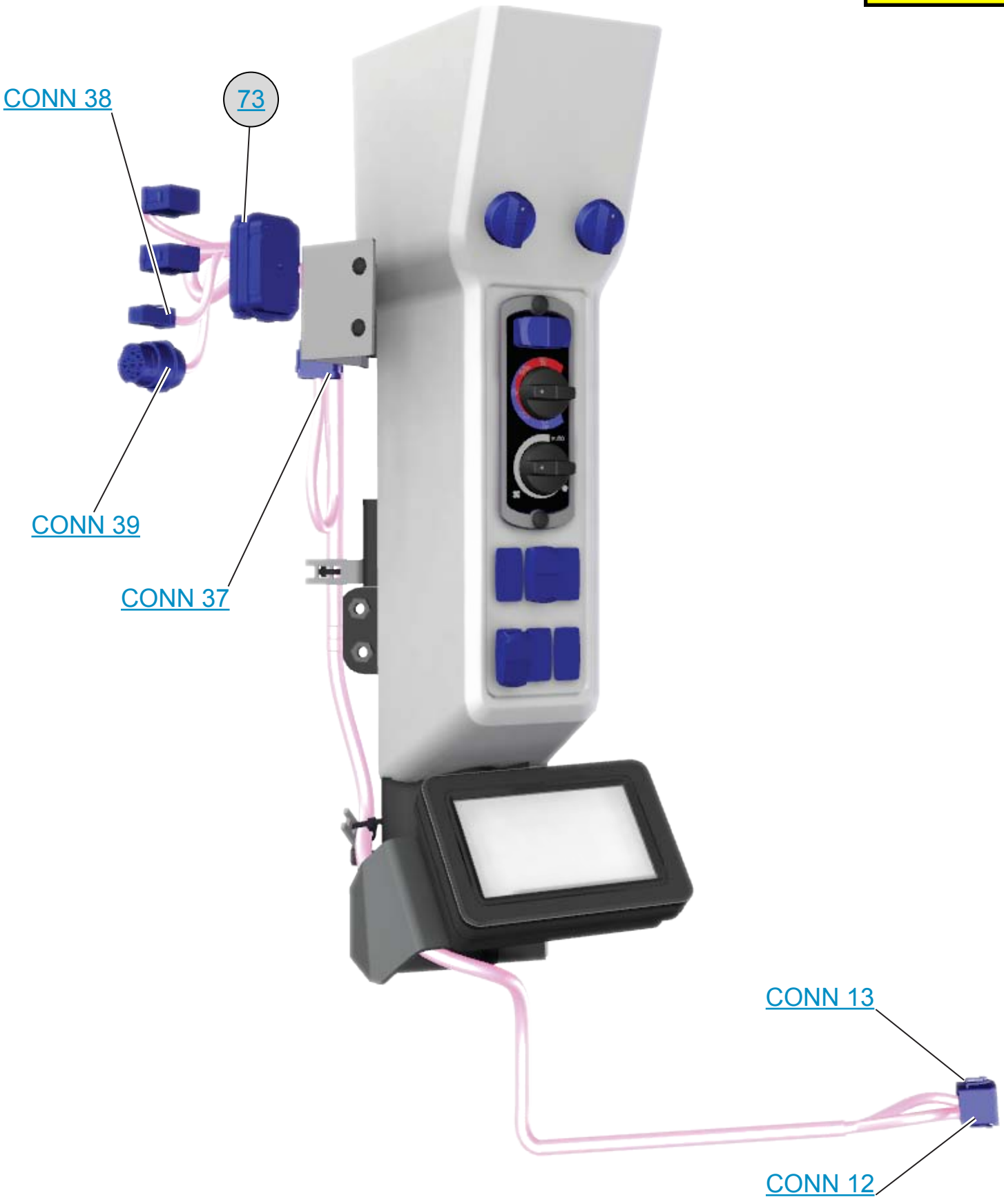
836 ROOF WIRING

VIEW ALL CALLOUTS



CASE DISPLAY

VIEW ALL CALLOUTS

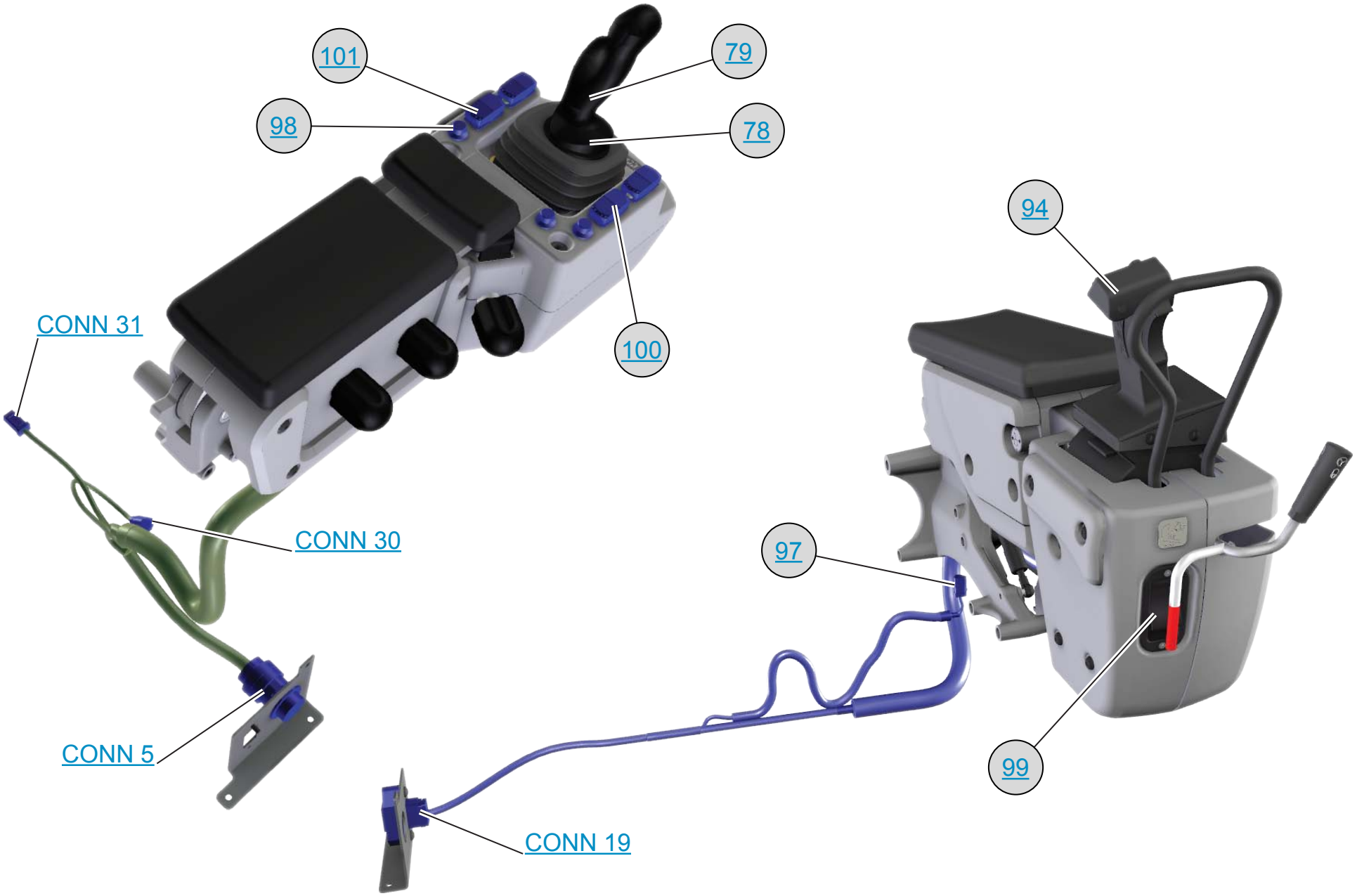


CAT DETECT

VIEW ALL CALLOUTS

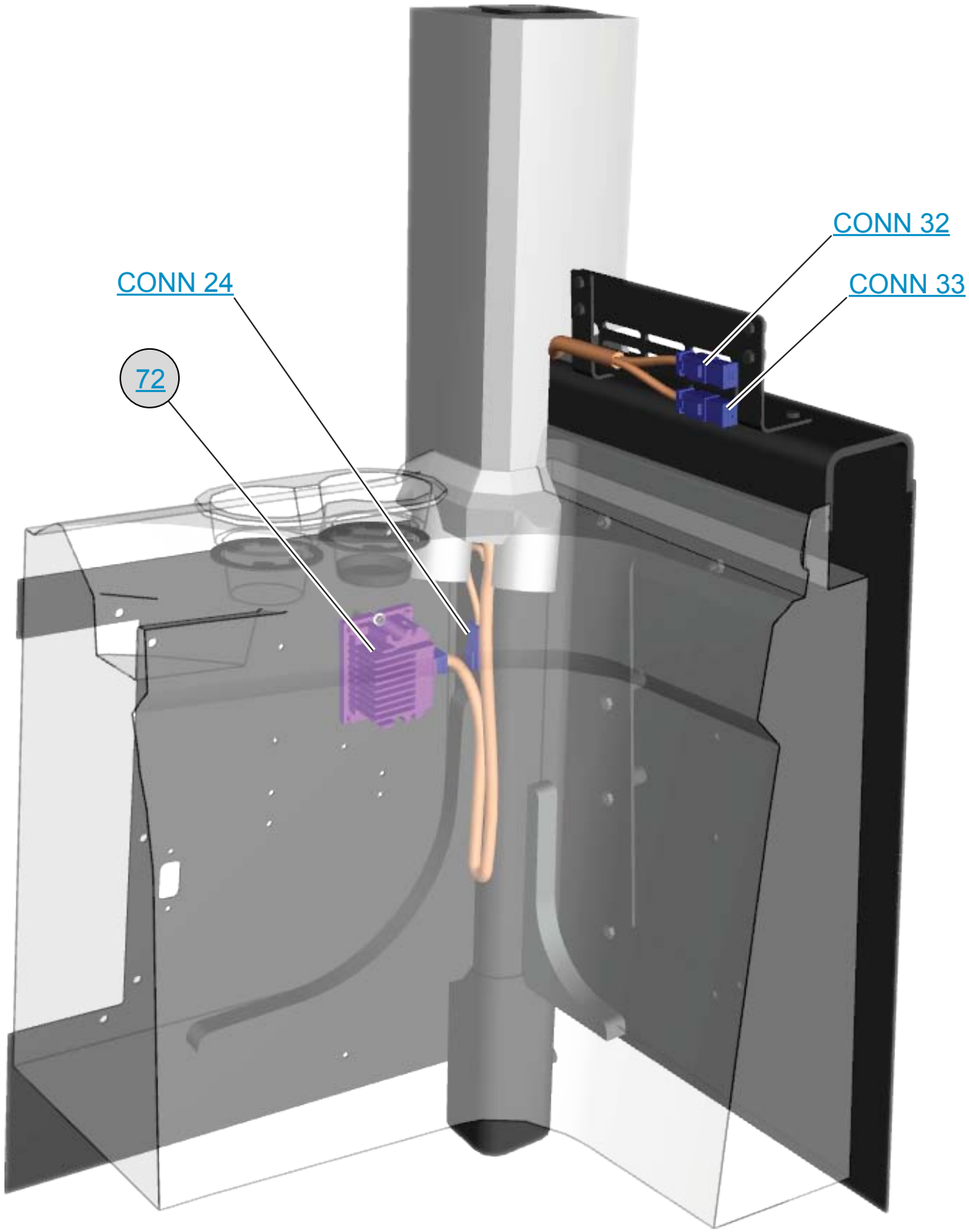
RH AND LH POD

VIEW ALL CALLOUTS



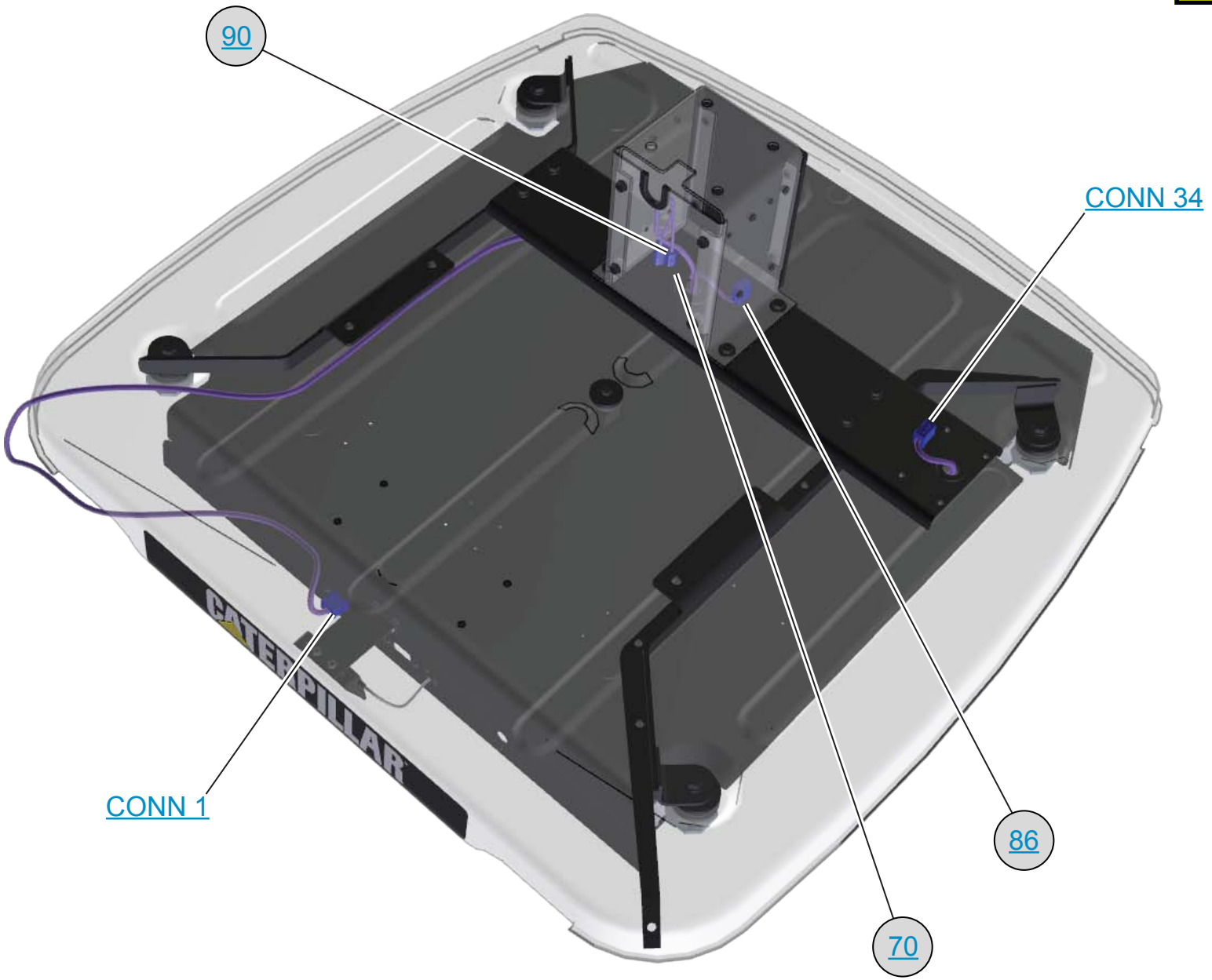
COMM RADIO

VIEW ALL CALLOUTS



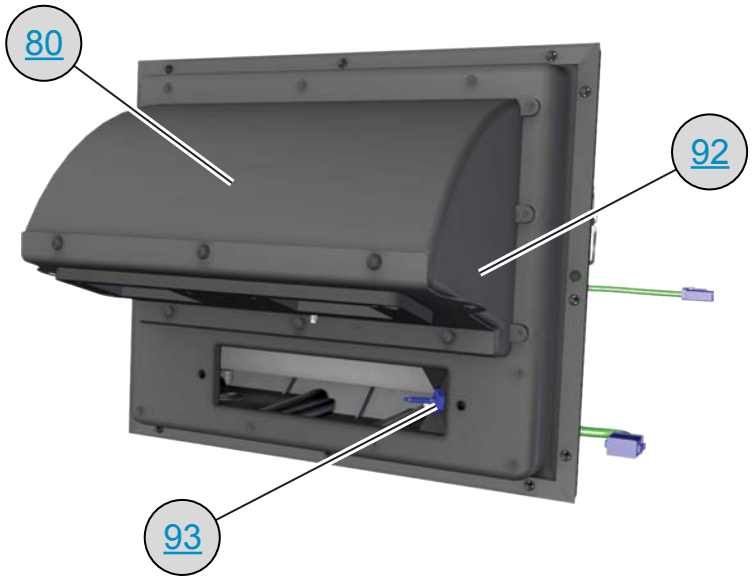
EXTERNAL CASE COMPONENTS

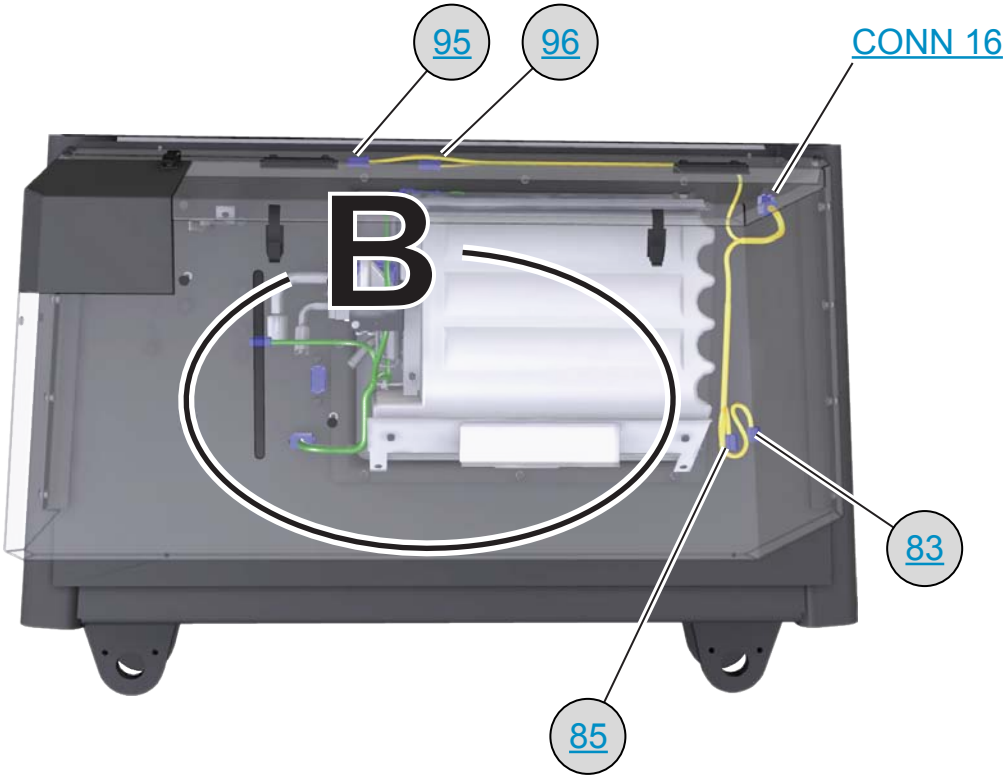
VIEW ALL CALLOUTS



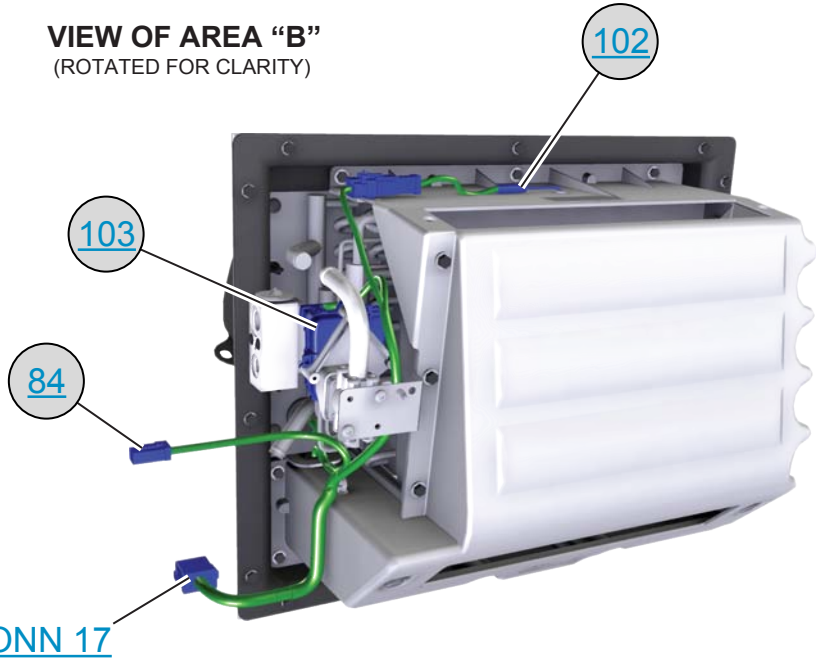
HVAC

VIEW ALL CALLOUTS



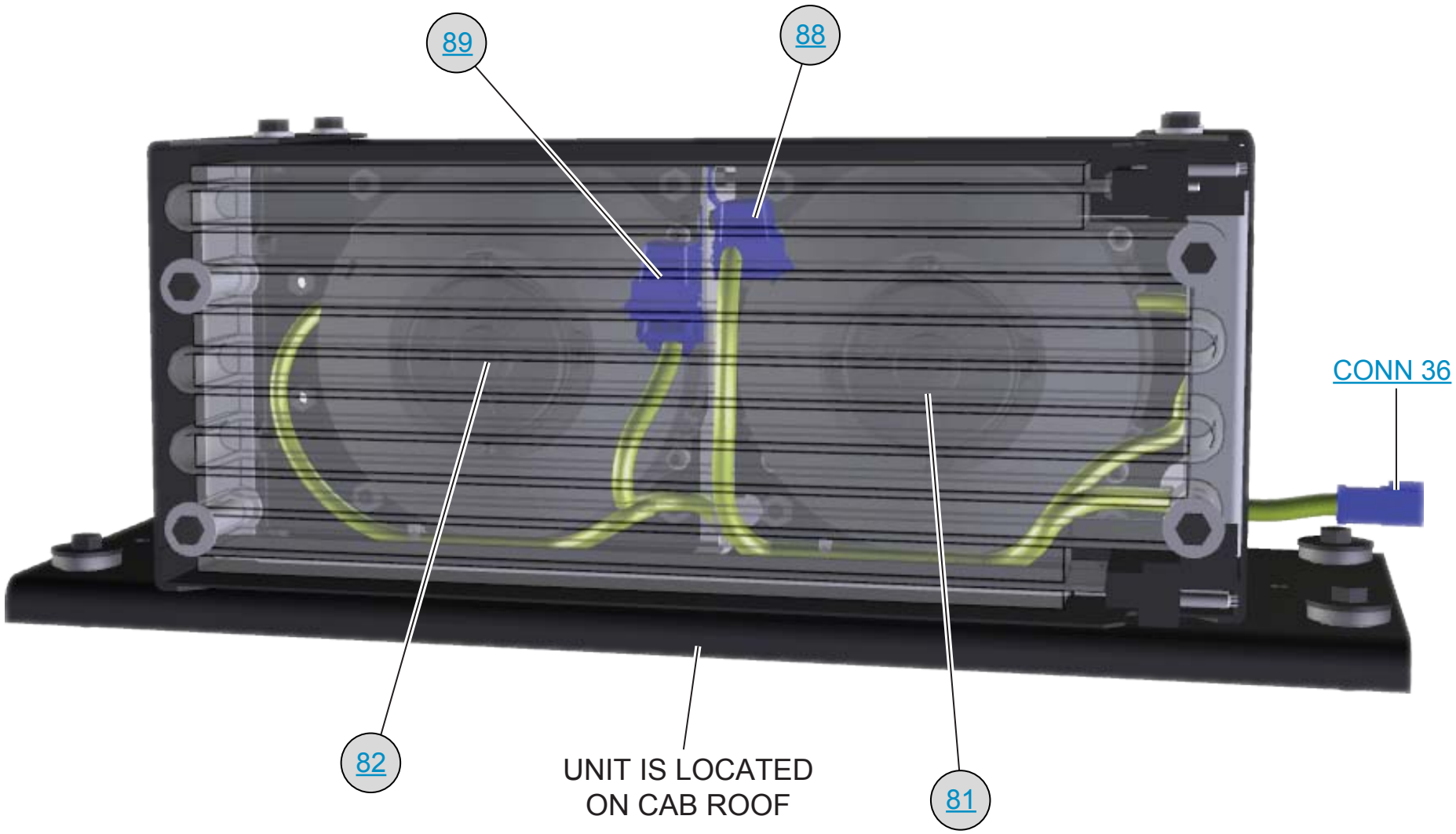


VIEW OF AREA “B”
(ROTATED FOR CLARITY)



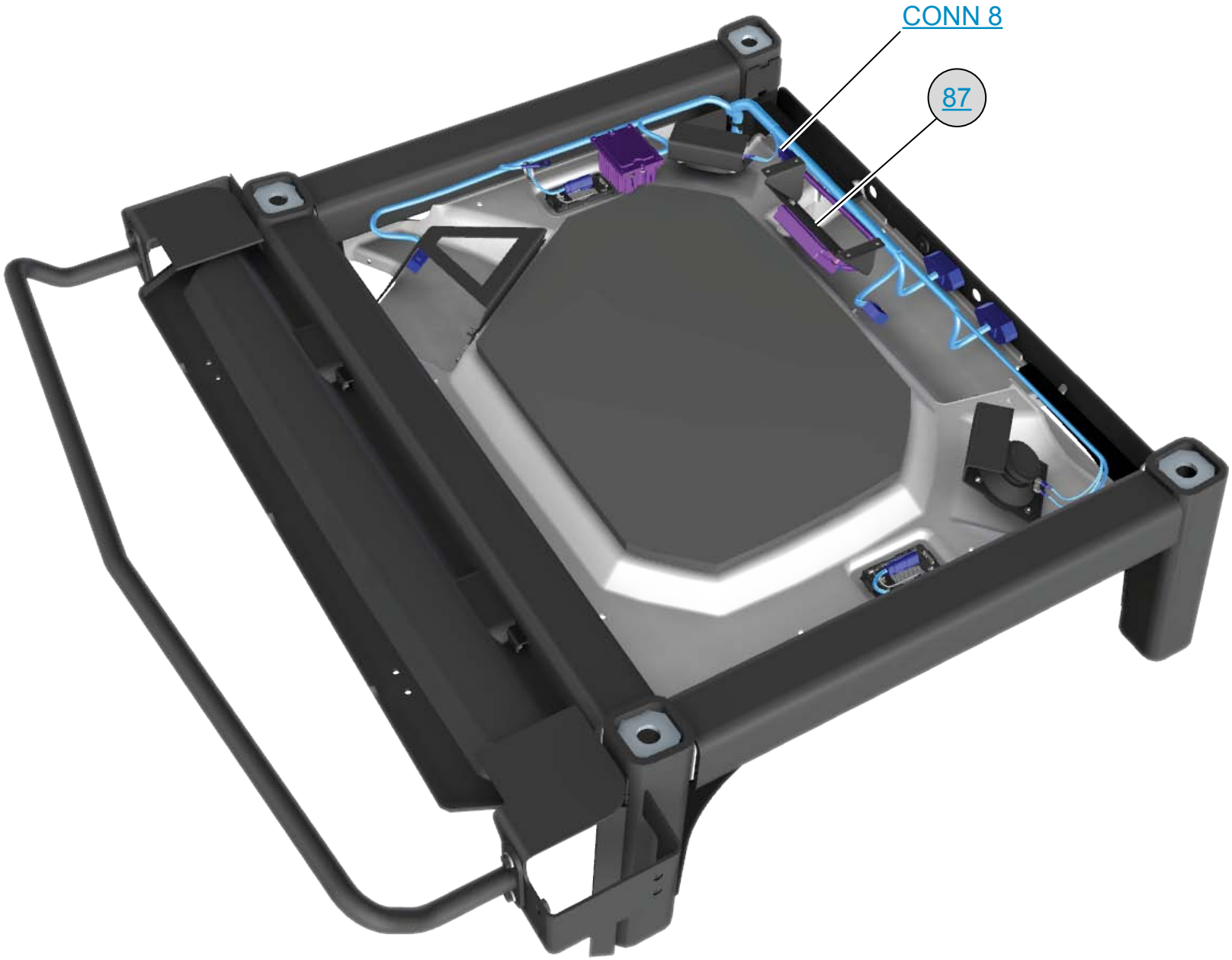
REMOTE CONDENSER

VIEW ALL CALLOUTS



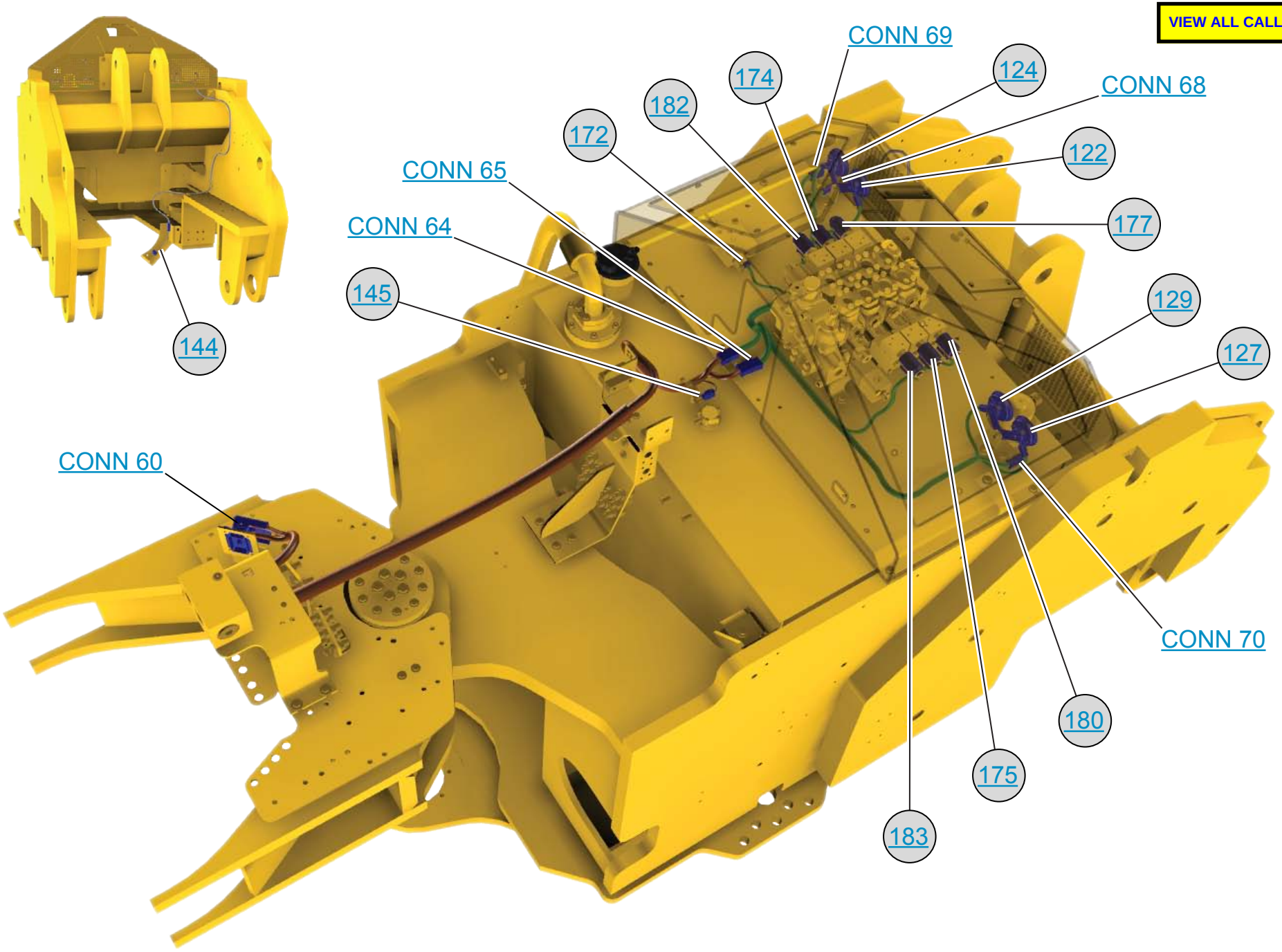
TIRE PRESSURE MONITORING

VIEW ALL CALLOUTS



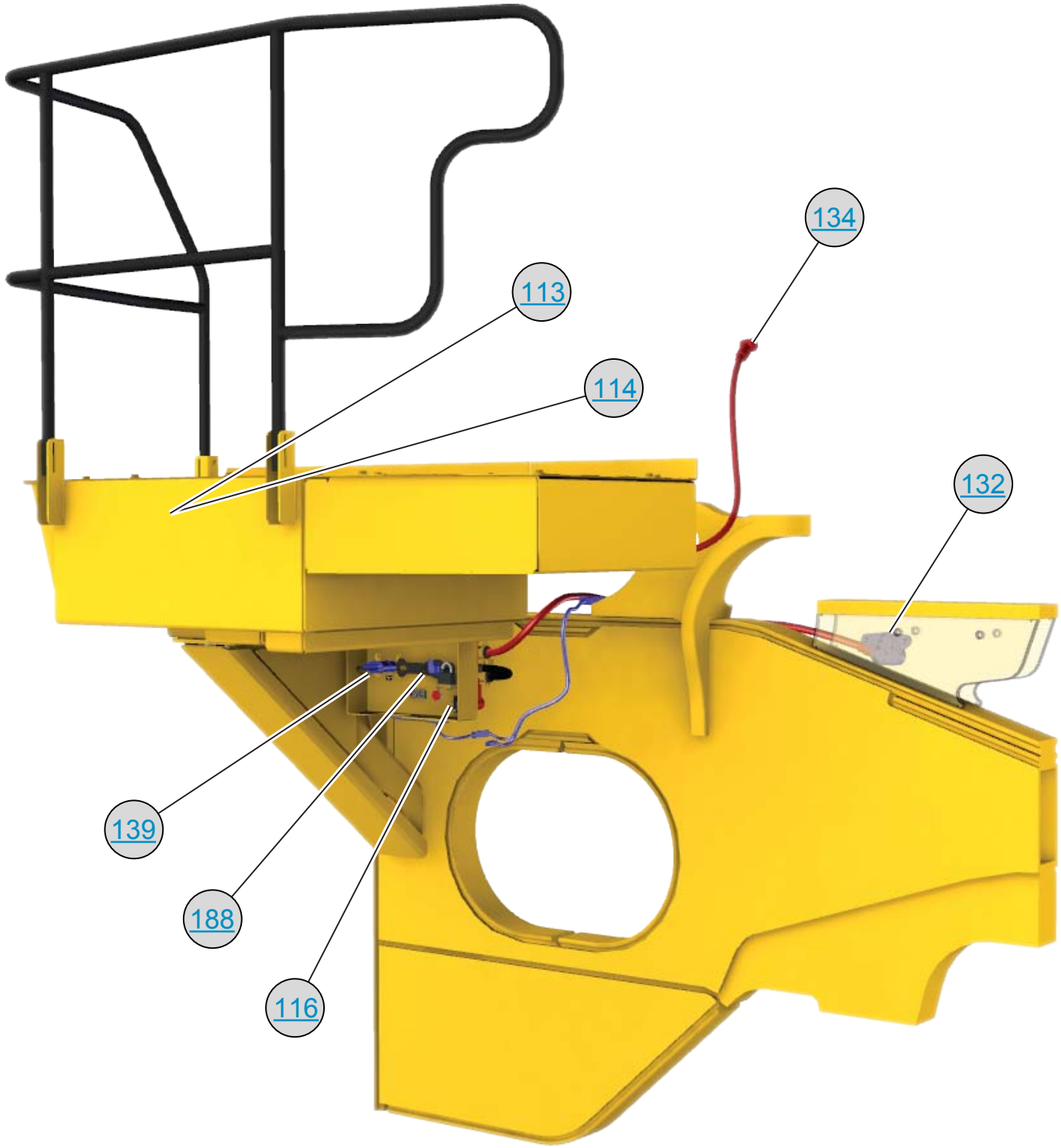
834 FRONT CHASSIS VIEW

VIEW ALL CALLOUTS



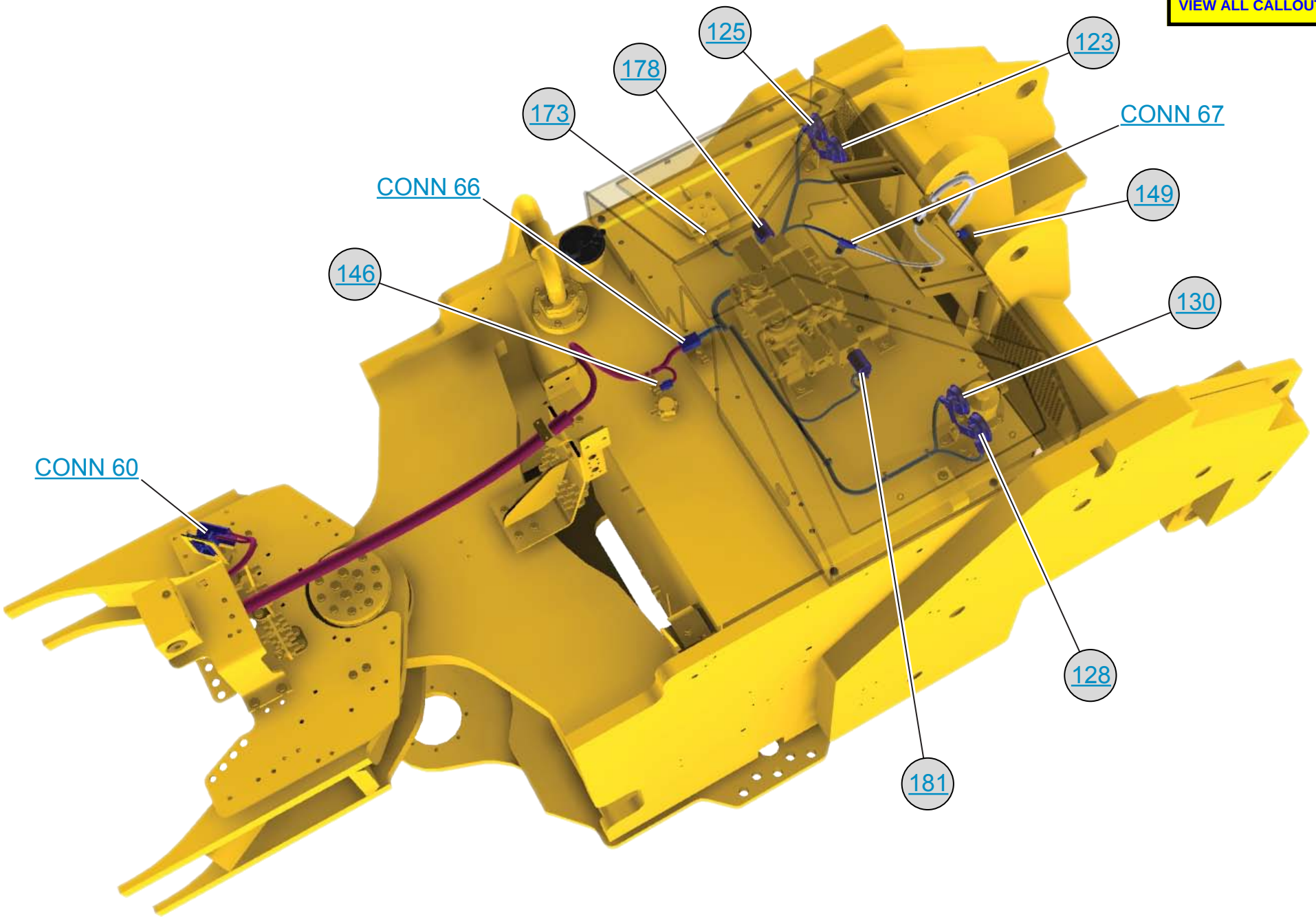
836 BATTERY WIRING

VIEW ALL CALLOUTS



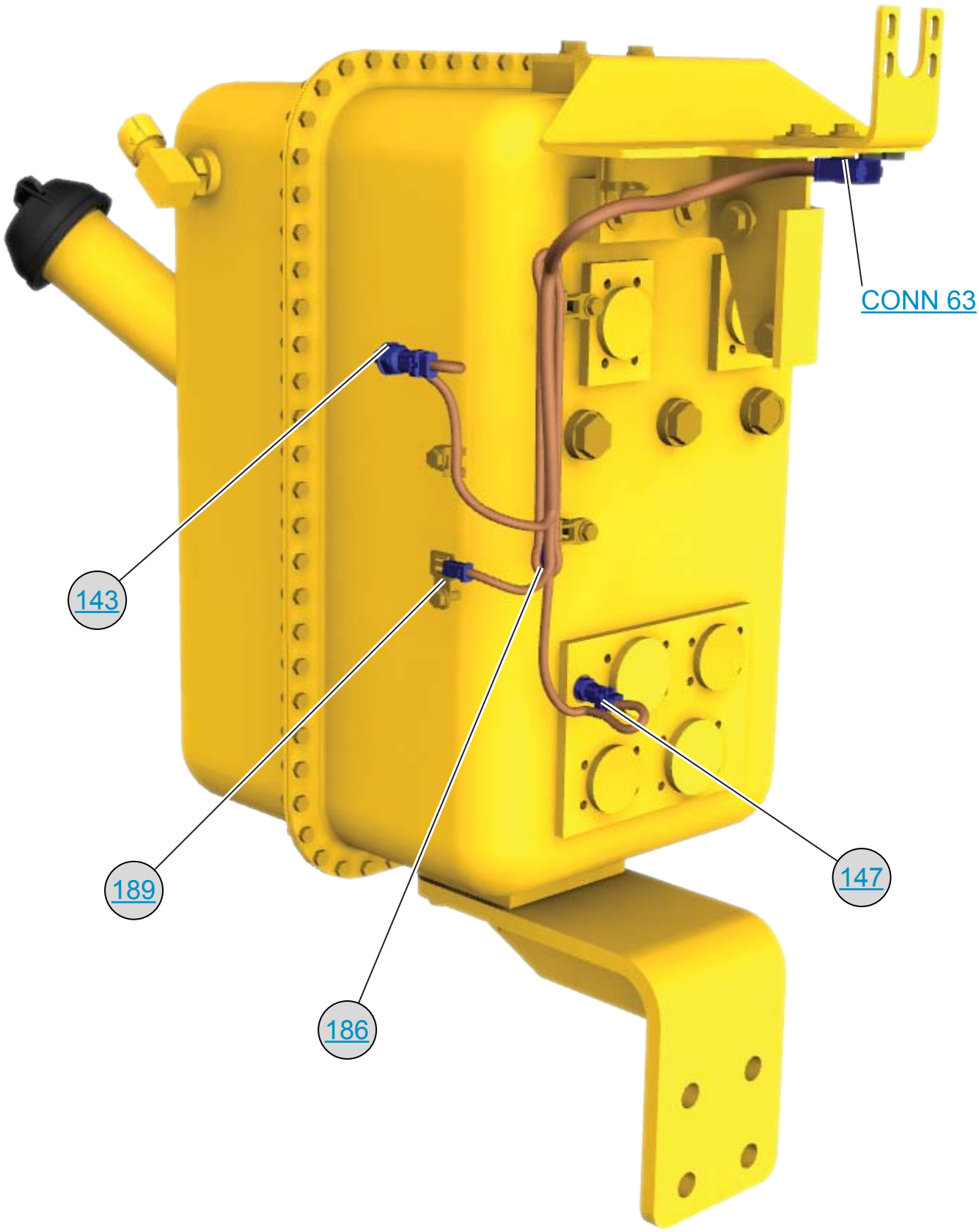
836 FRONT CHASSIS VIEW

VIEW ALL CALLOUTS



HYDRAULIC TANK REAR VIEW

VIEW ALL CALLOUTS

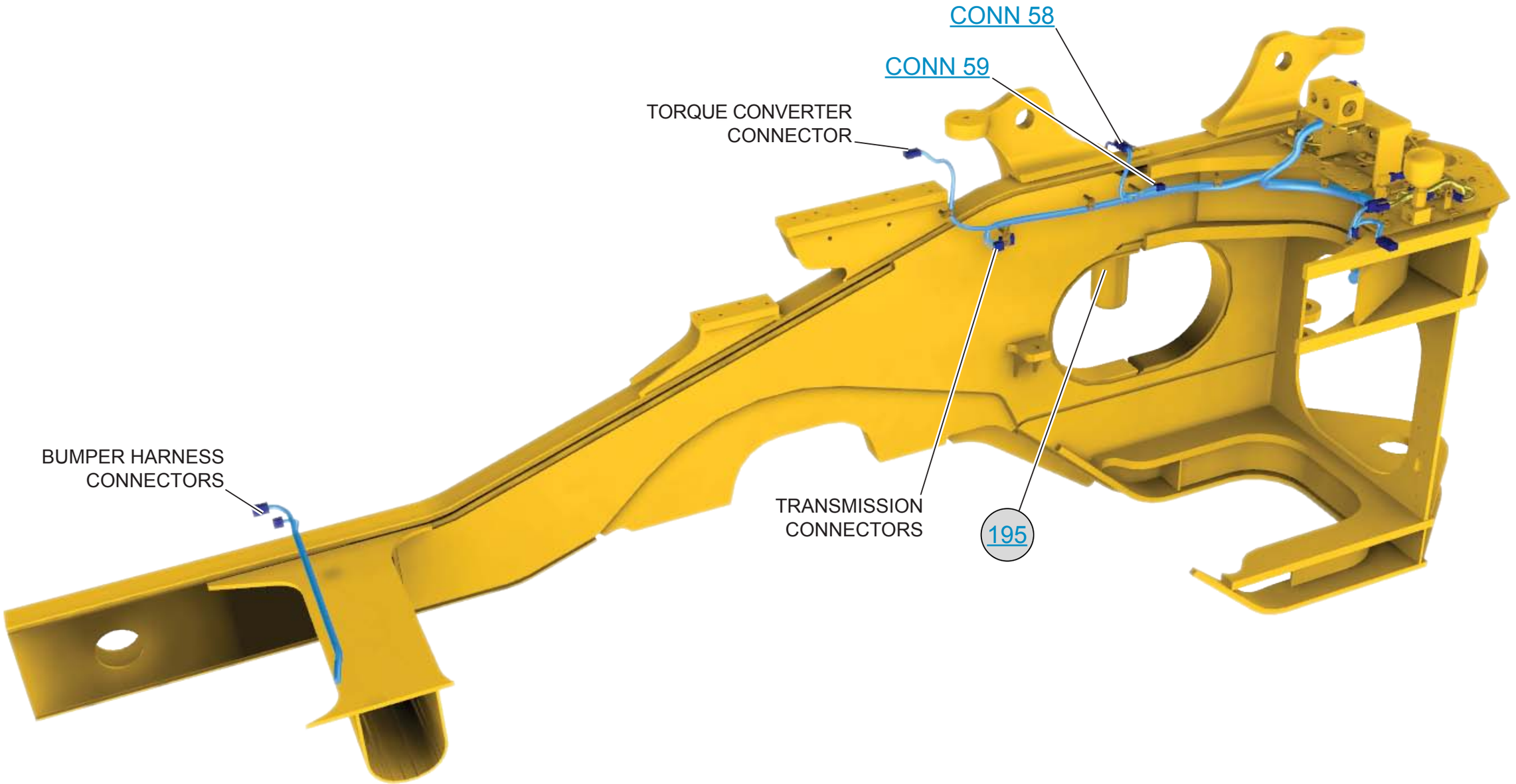


RADIATOR VIEW

VIEW ALL CALLOUTS

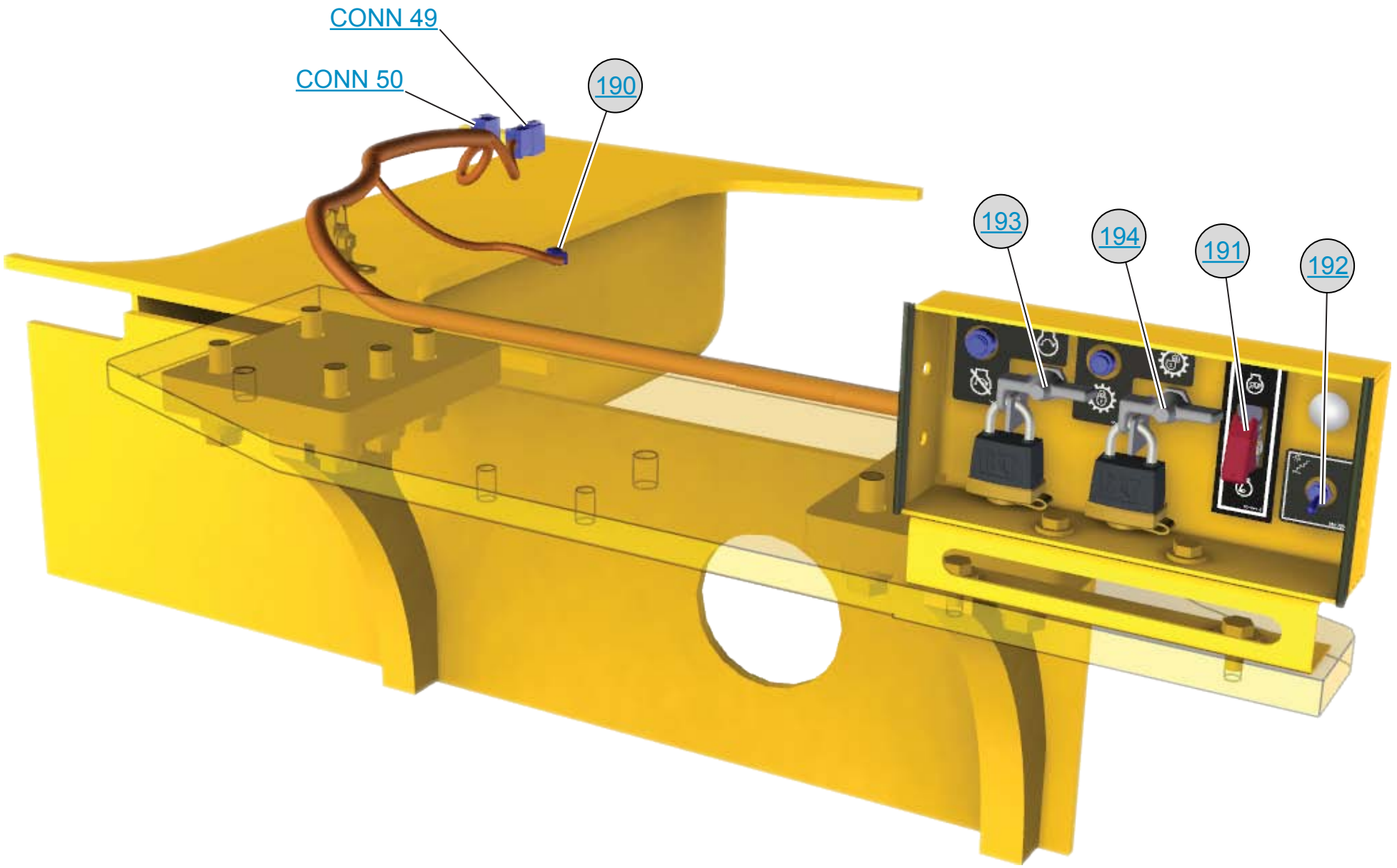
LH FRAME VIEW

VIEW ALL CALLOUTS



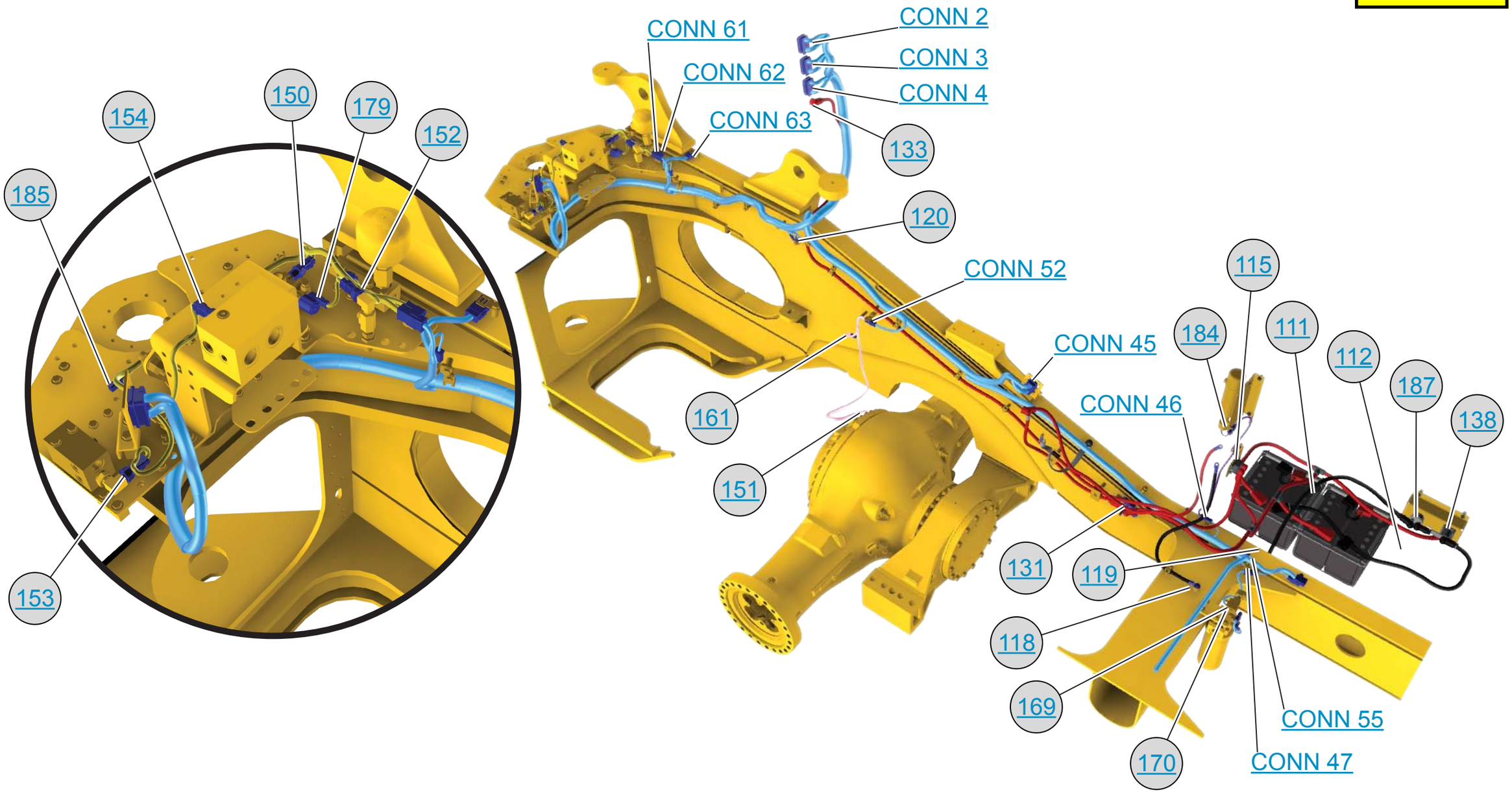
REAR BUMPER WIRING

VIEW ALL CALLOUTS



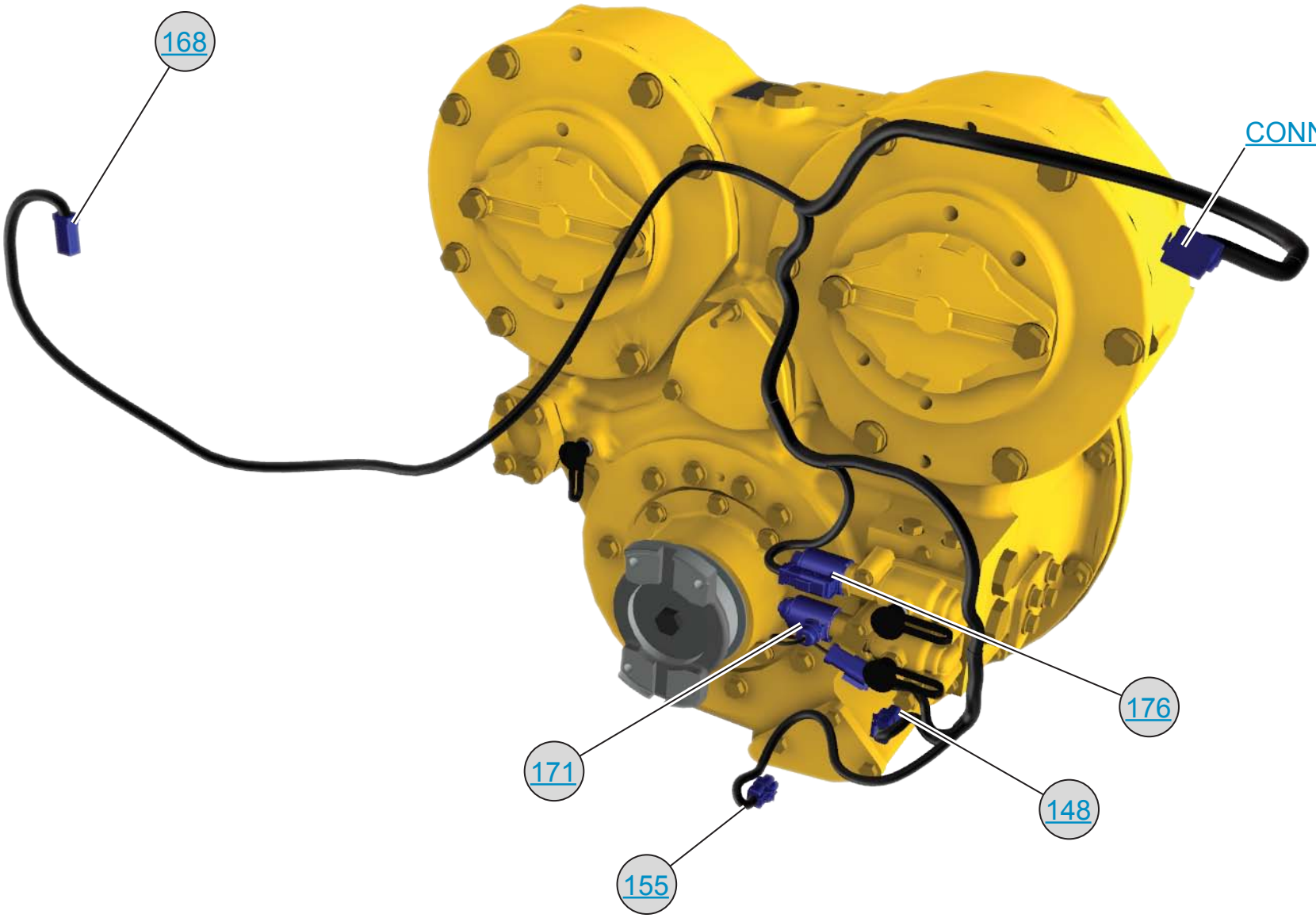
RH FRAME VIEW

VIEW ALL CALLOUTS



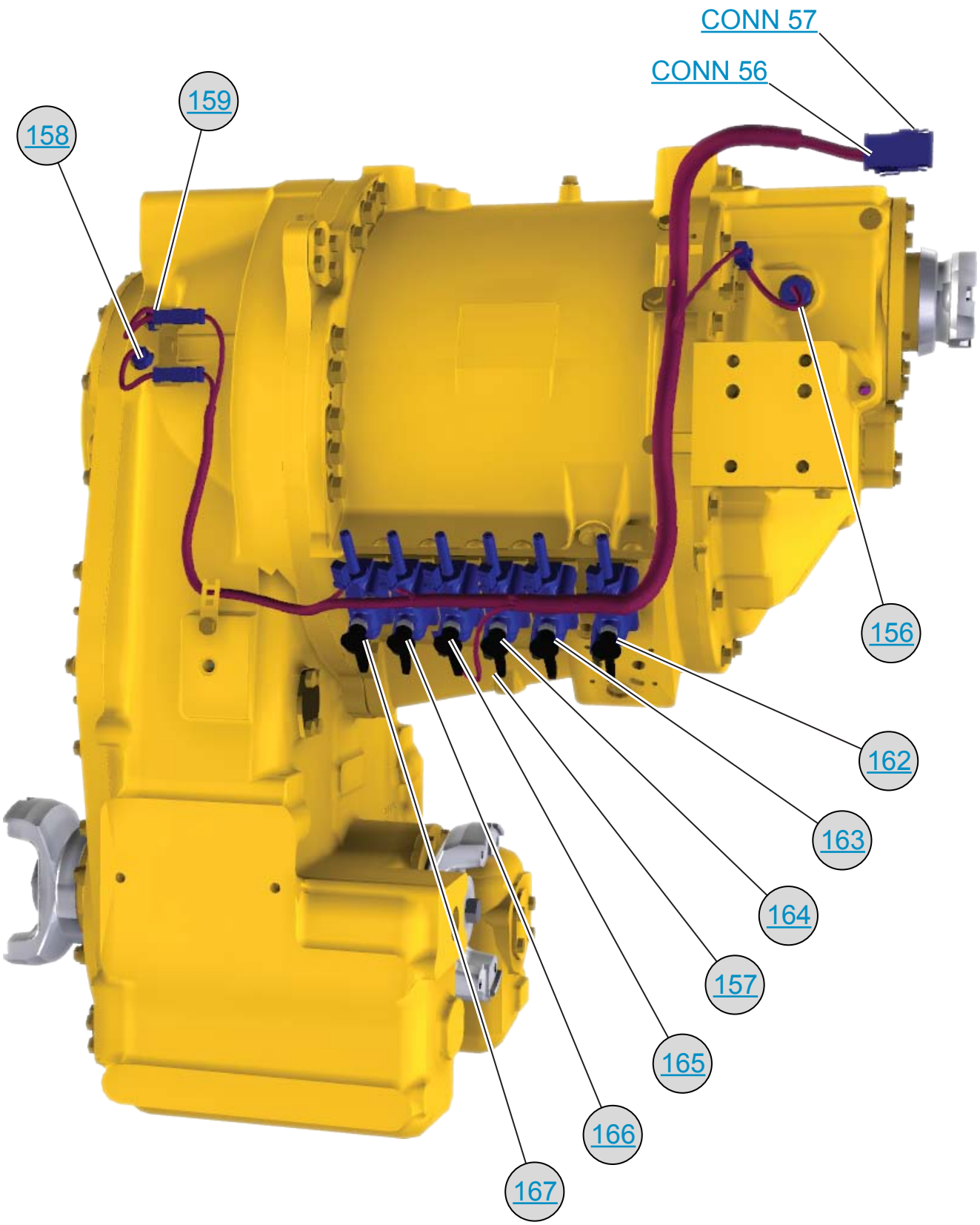
TORQUE CONVERTER

VIEW ALL CALLOUTS



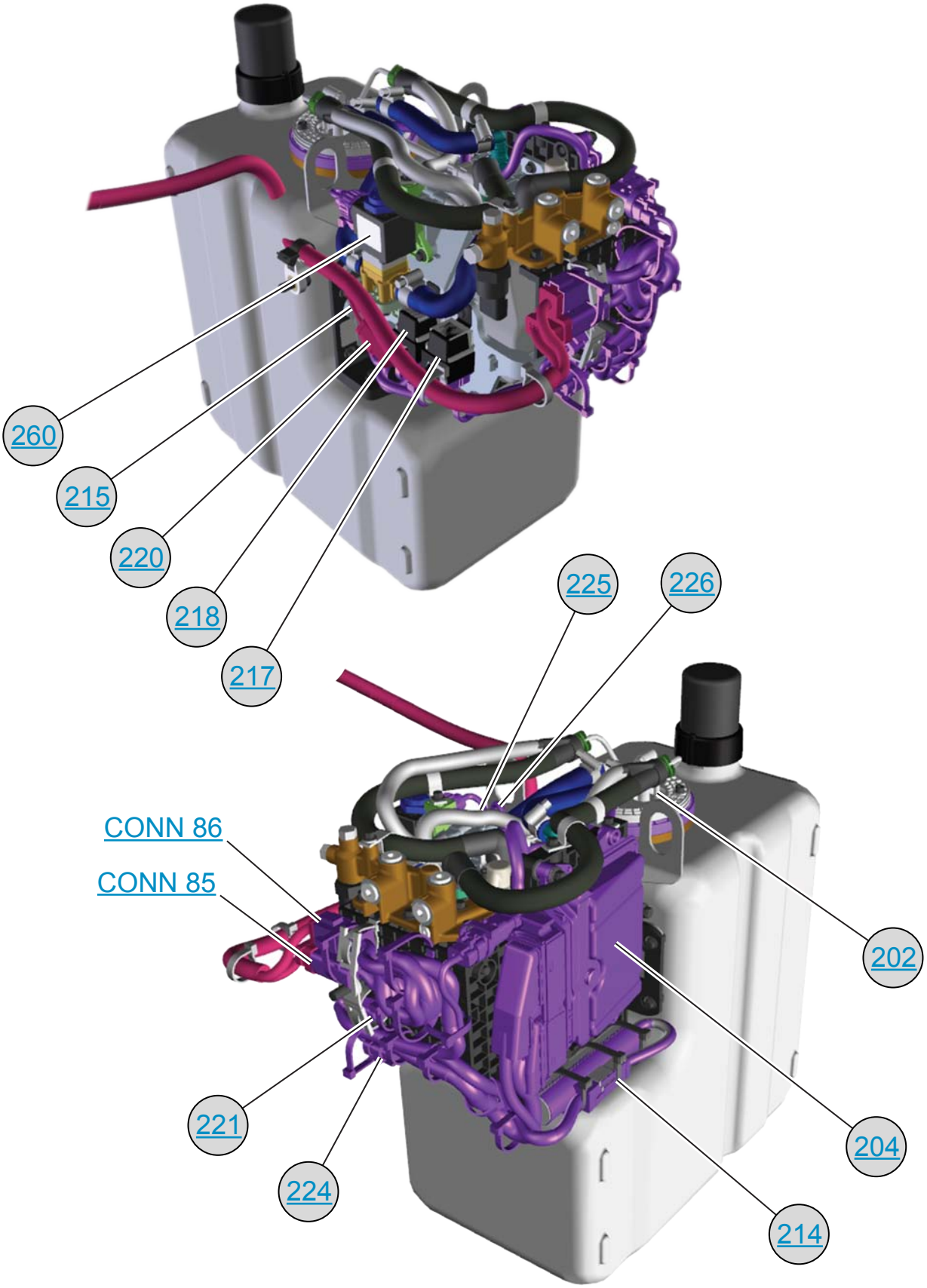
TRANSMISSION

VIEW ALL CALLOUTS



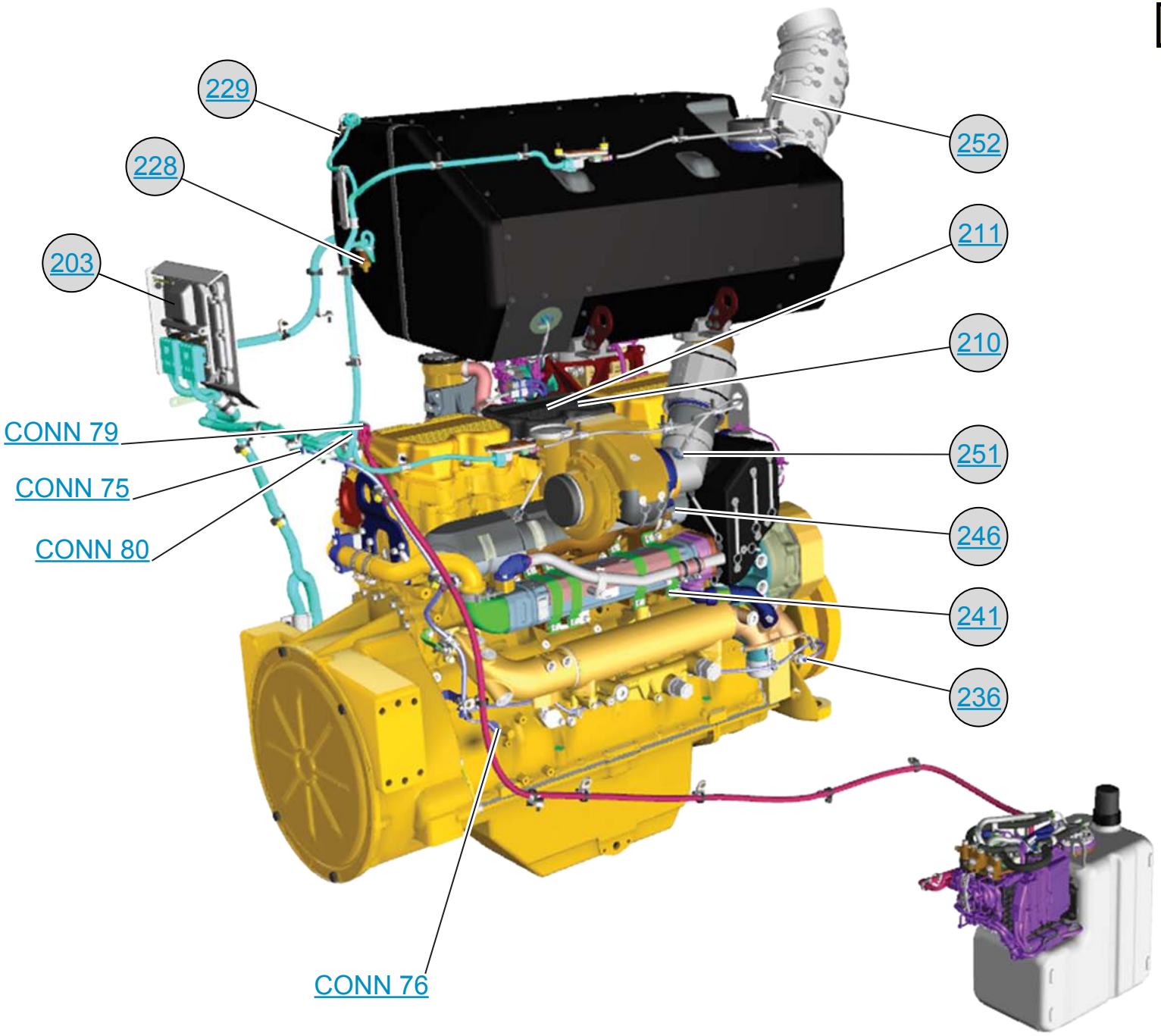
DIESEL EXHAUST FLUID (DEF) WIRING

VIEW ALL CALLOUTS



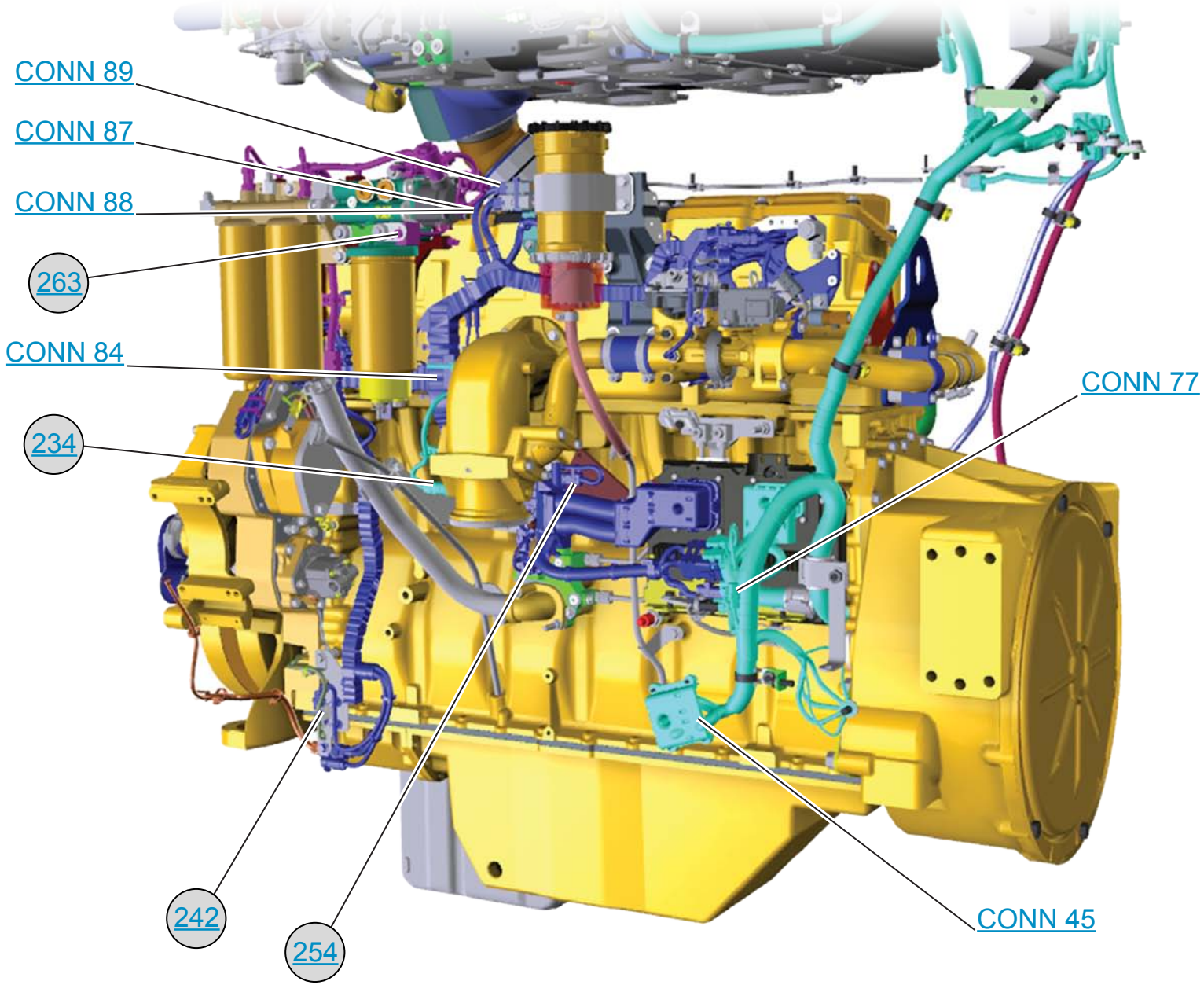
ENGINE WIRING (LEFT SIDE VIEW)

VIEW ALL CALLOUTS



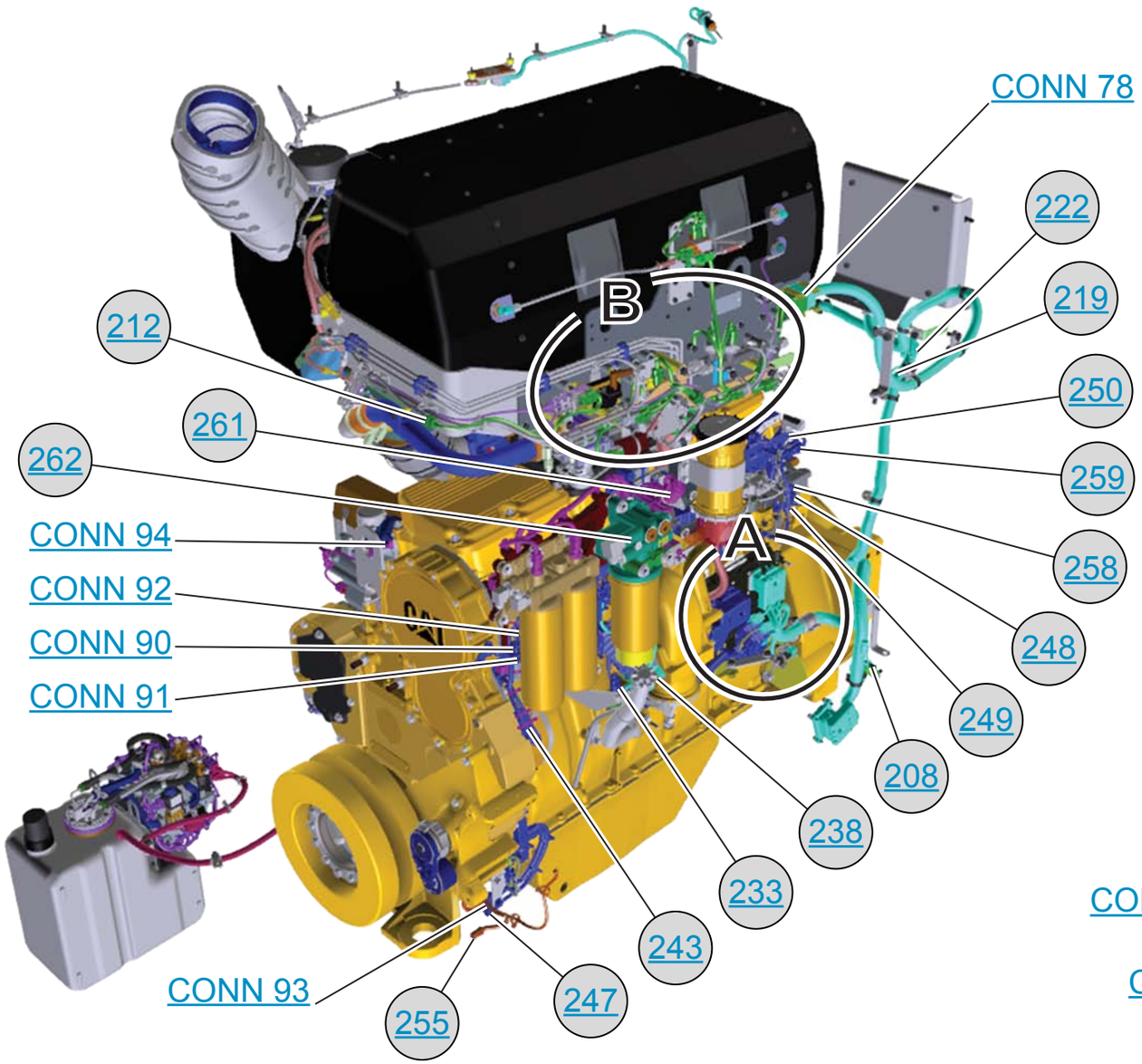
ENGINE WIRING (RIGHT SIDE VIEW 1)

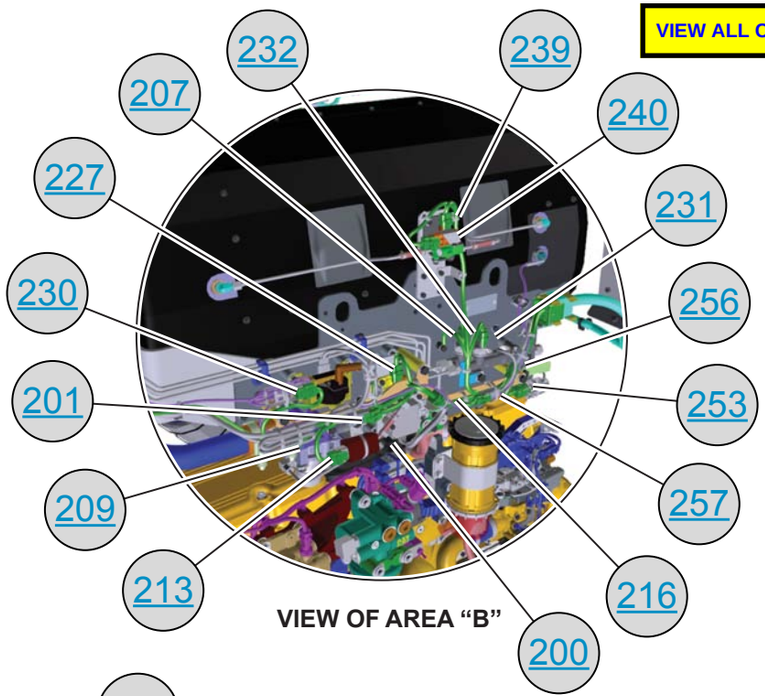
VIEW ALL CALLOUTS



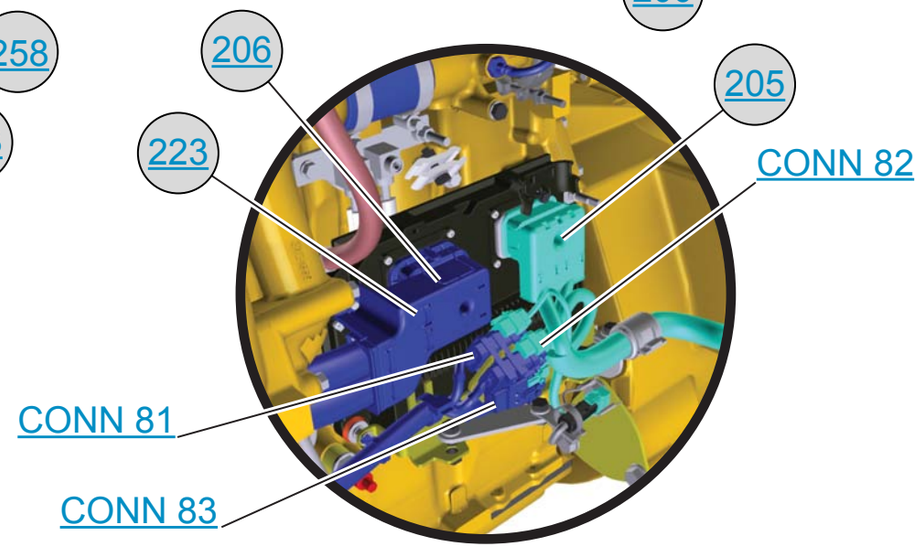
ENGINE WIRING (RIGHT SIDE VIEW 2)

VIEW ALL CALLOUTS





VIEW OF AREA “B”



VIEW OF AREA “A”