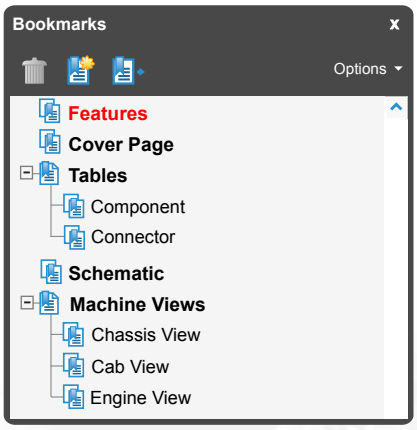
INTERACTIVE SCHEMATIC

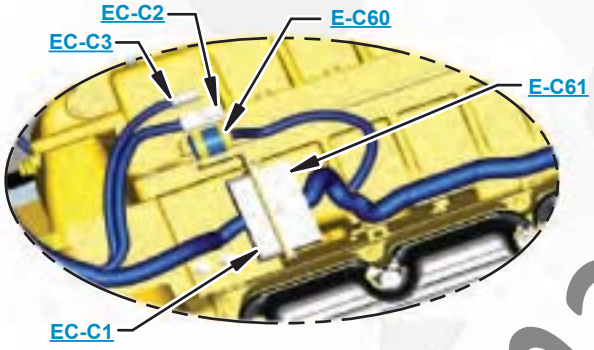


The Bookmarks panel will allow you to quickly navigate to points of interest.

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.

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



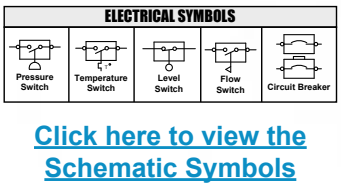
Click on any text that is BLUE and underlined. These are hyperlinks that can be used to navigate the schematic and machine views.

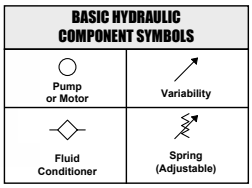
Click here to save a copy of this interactive schematic to your desktop

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"





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 (A B / P T) | Shifted Position (A B / P T) | 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

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	MAIN AUX. 2-Section Pump
Attachment	Pump: Variable and Pressure Compensated

Hydraulic Energy Triangles | Pneumatic

PILOT CONTROL

RELEASED PRESSURE

External Return | Internal Return

REMOTE SUPPLY PRESSURE

Simplified | Complete | Internal Supply Pressure

ROTATING SHAFTS

Unidirectional | Bidirectional

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.

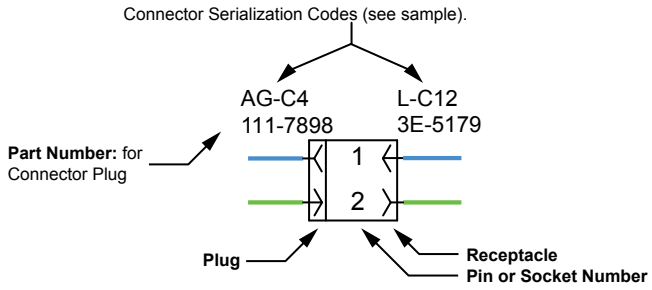
Relay (Magnetic Switch): A relay is an electrical component that is activated by electricity. It has a coil that makes an electromagnet when current flows through it. The electromagnet can open or close the switch part of the relay.

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.

HARNESS AND WIRE SYMBOLS

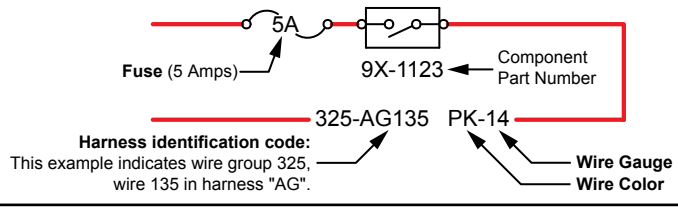
Wire, Cable, or Harness Assembly Identification: Includes Harness Identification Letters and Harness Connector Serialization Codes (see sample).

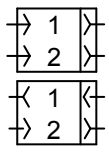


Harness Identification Letter(s): (A, B, C, AA, AB, AC, ...)

Harness Connector Serialization Code: The "C" stands for "Connector" and the number indicates which connector in the harness (C1, C2, C3, ...)

L-C12
3E-5179





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.

CATERPILLAR®

UENR3189-01
September 2012

Schematic

318E Excavator
Electrical System

DZF1-UP
WZS1-UP

Volume 1 of 2: Cab
Volume 2 of 2: Chassis, AccuGrade, and Product Link

Printed in U.S.A.

COMPONENT TABLE

Component Location (Volume 1)		
Component	**Schematic Location**	**Machine Location**
A/C Unit	F-10	1
Alarm - Action	F-1	2
Control - Machine	J-10	3
Control - Wiper	F-4	4
Converter - 12V / 10A	F-10	5
Converter - Radio	A-11	6
Diode - Main Relay	A-13	7
Fuse/Relay Panel	D-14	8
Ground - Cab 1	B-12	9
Ground - Cab Top	F-4	10
Ground - Platform	I-5	11
Joystick - LH	J-1	12
Joystick - RH	I-2	13
Monitor	G-1	14
Motor - Lower Wiper	J-1	15
Motor - Parallel Wiper	J-1	16
Motor - Wiper	G-3	17
Pedal - LH	H-1	18
Pedal - RH	H-1	19
Relay - Main	A-13	20
Resistor - CAN 1	G-11	21
Resistor - CAN 1	E-4	22
Resistor - CAN 2	E-4	23
Sensor - Boom Down Control Pressure	I-3	24
Sensor - Boom Up Control Pressure	G-1, H-4, I-3	25
Sensor - Pedal RH Control Pressure	H-1	26
Sensor - Swing Control Pressure	J-3	27

Component Location (Volume 1)		
Component	**Schematic Location**	**Machine Location**
Solenoid - Boom Up	H-4	28
Solenoid - Bucket Out	H-4	29
Switch - Blade Control Pressure	I-3	30
Switch - Boom Low Pressure Relief Enable	B-6	31
Switch - CRS	B-7	32
Switch - Fine Swing Control	B-5	33
Switch - Foot	H-1	34
Switch - Horn	J-2	35
Switch - Implement Pressure	J-3	36
Switch - Key	D-2	37
Switch - Lower Washer	B-6	38
Switch - Lower Wiper	B-6	39
Switch - Neutral Start Limit	J-3	40
Switch - One Touch Low Idle	H-2	41
Switch - Over Load Warning	B-7	42
Switch - Pedal LH Control Pressure	G-1	43
Switch - Quick Coupler	B-8	44
Switch - Radio Mute	B-10	45
Switch - Secondary Shutdown	I-2	46
Switch - Smart Boom Select	B-8	47
Switch - Travel Left Pressure	I-1	48
Switch - Travel Right Pressure	I-1	49
Switch - Travel Straight Pressure	I-1	50
Switch - Under Window Limit	F-1	51
Switch - Window Limit	E-3	52
Switch Panel	E-2	53

COMPONENT TABLE

Component Location

Component	Schematic Location	Machine Location	Component	Schematic Location	Machine Location
Alarm - Backup Travel ATCH	C-5	54	Sensor - Engine Coolant Temperature	D-14	114
Alternator	I-13	55	Sensor - Engine Intake Manifold Pressure	D-14	115
Battery - Front	I-11	56	Sensor - Engine Intake Manifold Temperature	D-14	116
Battery - Rear	I-11	57	Sensor - Engine Oil Pressure	F-14	117
Block - Junction	I-10	58	Sensor - Fuel Pressure	F-14	118
Camera - WAVS Rear ATCH	G-2	59	Sensor - Fuel Temperature	D-14	119
Circuit Breaker - Alternator, Main, and Glow Plug	J-10	60	Sensor - Laser Receiver with Angle	A-9	120
Compressor - Refrigerant	I-13	61	Sensor - NFC Pilot Pressure 1	B-15	121
Control - 321SR Product Link	J-7	62	Sensor - NFC Pilot Pressure 2	B-15	122
Control - Engine	J-16	63	Sensor - NOX Reduction System Intake Pressure	E-14	123
Control - GSM Product Link	J-4	64	Sensor - NOX Reduction System Outlet Pressure	E-14	124
Control - Japan Product Link	J-9	65	Sensor - NOX Reduction System Temperature	E-14	125
Display - CD700	B-5	66	Sensor - Pump 1 Pressure	H-8	126
Ground - AccuGrade Chassis 1	C-12	67	Sensor - Pump 2 Pressure	H-8	127
Ground - AccuGrade Chassis 2	B-12	68	Sensor - Soot	A-12	128
Ground - Chassis 1	I-10	69	Sensor - Stick In Pressure (GE Harn.) ATCH	E-9	129
Ground - Chassis 2	H-10	70	Sensor - Stick In Pressure (GJ Harn.) ATCH	F-9	130
Ground - Chassis 3	G-6	71	Sensor - Stick Out Control Pressure 1 ATCH	H-9	131
Ground - Chassis 4	D-4	72	Sensor - Stick Out Control Pressure 2 ATCH	H-9	132
Ground - Chassis 5	C-4	73	Sensor - Stick Position ATCH	D-1	133
Ground - Engine Room (LH)	G-14	74	Sensor - Stick Position (AccuGrade) ATCH	A-11	134
Ground - Engine Room (RH)	G-14	75	Sensor - Water In Fuel	B-15	135
Ground - Starting Motor	J-14	76	Solenoid - Quick Coupler Bypass Cut ATCH	E-12	136
Horn - Forward High Tone (RH)	C-2	77	Solenoid Valve - BM Regen	E-5	137
Horn - Forward Low Tone (LH)	C-2	78	Solenoid Valve - Boom Lowering Control	H-8	138
Module - Aftertreatment Identification	C-15	79	Solenoid Valve - Fine Swing ATCH	C-2	139
Motor - Starting	J-14	80	Solenoid Valve - Hydraulic Lockout	I-12	140
Pump - Fuel Transfer	B-15	81	Solenoid Valve - NFC Limit 1	B-15	141
Pump - Fuel Transfer ATCH	C-3	82	Solenoid Valve - NFC Limit 2	B-15	142
Pump - Lower Washer ATCH	H-11	83	Solenoid Valve - Power Shift	A-15	143
Pump - Washer	H-12	84	Solenoid Valve - Quick Coupler ATCH	C-15	144
Radio - 121SR Product Link Communication	I-5	85	Solenoid Valve - Stem 1 Extend (GE Harn.) ATCH	F-11	145
Radio - CR900C ATCH	D-8	86	Solenoid Valve - Stem 1 Extend (GJ Harn.) ATCH	G-11	146
Receiver - GPS Satellite (LH)	E-12	87	Solenoid Valve - Stem 1 Retract (GE Harn.) ATCH	F-11	147
Receiver - GPS Satellite (RH)	D-12	88	Solenoid Valve - Stem 1 Retract (GJ Harn.) ATCH	G-11	148
Receptacle - Jump Start ATCH	I-10	89	Solenoid Valve - Stem 2 Extend (GE Harn.) ATCH	F-11	149
Resistor - CAN Data Link	I-14	90	Solenoid Valve - Stem 2 Extend (GJ Harn.) ATCH	G-11	150
Resistor - Engine CAN Data Link 1	B-14	91	Solenoid Valve - Stem 2 Retract (GE Harn.) ATCH	F-11	151
Resistor - Engine CAN Data Link 2	A-12	92	Solenoid Valve - Stem 2 Retract (GJ Harn.) ATCH	G-11	152
Resistor - Engine CAN Data Link 3	B-11	93	Solenoid Valve - Stem 3 Extend ATCH	F-11	153
Resistor - Engine CAN Data Link 4	B-8	94	Solenoid Valve - Stem 3 Retract ATCH	F-11	154
Resistor - GPS CAN Data Link 1	D-12	95	Solenoid Valve - Swing Brake Release	I-12	155
Resistor - GPS CAN Data Link 2	A-6	96	Solenoid Valve - System Pressure Change	D-14	156
Sender - Fuel Level	C-5	97	Solenoid Valve - Travel Speed	I-12	157
Sender - Hydraulic Oil Temperature	A-13	98	Solenoid Valve - Variable Relief 1 (GE Harn.) ATCH	D-5	158
Sensor - Air Inlet Manifold Pressure	I-12	99	Solenoid Valve - Variable Relief 1 (GJ Harn.) ATCH	E-5	159
Sensor - Air Inlet Manifold Temperature	I-12	100	Solenoid Valve - Variable Relief 2 (GE Harn.) ATCH	D-5	160
Sensor - Atmospheric Pressure	F-14	101	Solenoid Valve - Variable Relief 2 (GJ Harn.) ATCH	D-5	161
Sensor - Body Angle	C-10	102	Solenoid Valve - Wastegate	D-14	162
Sensor - Boom Cylinder Head End Pressure (HA Harn.)	C-2	103	Switch - Disconnect	I-10	163
Sensor - Boom Cylinder Head End Pressure (HH Harn.)	C-1	104	Switch - Engine Oil Level	J-13	164
Sensor - Boom Cylinder Rod End Pressure ATCH	D-1	105	Switch - Hammer Filter Bypass ATCH	E-5	165
Sensor - Boom Position ATCH	D-4	106	Switch - Hydraulic Oil Pressure	A-12	166
Sensor - Boom Position (AccuGrade) ATCH	C-10	107	Switch - Refueling Level ATCH	B-5	167
Sensor - Bucket Angle	A-9	108	Switch - Shunt Tank Level	H-11	168
Sensor - Bucket Position	A-9	109	Switch - Travel Pressure	H-8	169
Sensor - Camshaft Speed	D-14	110	Valve - Back Pressure Exhaust	E-14	170
Sensor - Charge Air Temperature	J-16	111	Valve - Fuel Pump Control	E-14	171
Sensor - Clean Emissions Module Temperature	C-15	112	Valve - Nox Reduction System	E-14	172
Sensor - Crankshaft Speed	D-14	113	Valve - Quick Coupler Unlock Control ATCH	C-15	173

CONNECTOR TABLE

Connector Location (Volume 1)	
Connector Number	**Schematic Location**
CONN 1	C-15
CONN 2	C-15
CONN 3	D-15
CONN 4	E-15
CONN 5	F-15
CONN 6	G-15
CONN 7	G-15
CONN 8	I-16
CONN 9	G-13, H-13
CONN 10	F-13, G-13, H-13
CONN 11	H-14
CONN 12	F-13
CONN 13 Service Tool Connector	C-12
CONN 14	C-7, C-11
CONN 15	C-11
CONN 16	G-10
CONN 17	B-8
CONN 18	C-7
CONN 19	J-6
CONN 20	J-6
CONN 21	I-6
CONN 22	I-6
CONN 23	I-6
CONN 24	H-6
CONN 25	H-6
CONN 26	H-6
CONN 27	D-4
CONN 28	E-4
CONN 29	G-4
CONN 30	G-4
CONN 31	I-4
CONN 32	I-4
CONN 33	C-3
CONN 34	F-1

Connector Location (Volume 2)	
Connector Number	**Schematic Location**
CONN 1	G-1
CONN 3	E-2
CONN 4	D-1
CONN 5	F-1
CONN 6	G-1
CONN 7	G-1, F-1
CONN 8	I-1
CONN 9	C-9
CONN 11	C-9
CONN 12	C-9
CONN 16	I-8, I-5, I-3
CONN 31	C-8, D-7
CONN 35	B-15
CONN 36	A-14
CONN 37	A-14
CONN 39	A-11
CONN 40	B-10
CONN 41	D-9
CONN 42	D-9
CONN 43	H-9
CONN 44	H-9
CONN 45	H-9
CONN 46	C-8
CONN 47	B-7
CONN 48	B-5
CONN 49	C-3
CONN 50	F-2
CONN 51	D-2
CONN 52	D-2
CONN 53	C-2
CONN 54	C-2
CONN 55	C-2
CONN 56	B-2
CONN 57	I-12

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.

SPECIFICATIONS AND RELATED MANUALS

Resistor, Sender and Solenoid Specifications			
Part No.	**Component Description**		**Resistance (Ohms)[1]**
111-9916	Solenoid:	Boom Up Bucket Out	11.5 ± 0.5
324-5678	Resistor:	CAN	120

[1] At room temperature unless otherwise noted.

Off-Machine Switch Specification				
Part No.	**Function**	**Actuate**	**Deactuate**	**Contact Position**
319-4407	Blade Control Pressure Implement Pressure Pedal Lefthand Control Pressure Travel Left Pressure Travel Right Pressure Travel Straight Pressure	490 ± 49 kPa (71 ± 7 psi)	294 kPa (42.6 psi)	Normally Open

Related Electrical Service Manuals		
Title		**Form Number**
Alternator:	Denso HDB	SENR4130
Starting Motor:	Delco 37 MT	SENR3581
Engine Control:		KENR9231
Machine Control:		KENR8658

SPECIFICATIONS AND RELATED MANUALS

Resistor, Sender and Solenoid Specifications			
Part No.	**Component Description**		**Resistance (Ohms)[1]**
111-9916	Solenoid:	NFC 1 NFC 2 Power Shift Pressure Stem 1 Extend Stem 1 Retract Stem 2 Extend Stem 2 Retract Stem 3 Extend Stem 3 Retract	11.5 ± 0.5
120-0044	Potentiometer:	Boom Stick	5k ± 20%
121-1491	Solenoid:	Hydraulic Lock Quick Coupler Bypass Cutoff Swing Brake Travel Speed Travel Straight	32.0 ± 3.2
121-6303	Solenoid:	Heavy Lift	32.0 ± 3.2
239-1134	Solenoid:	Start Aid	20
256-6454	Sensor:	Charge Air Coolant Out Temperature Engine Intake Manifold Temperature Engine Coolant Temperature	- 40°C = 33.65k 25°C = 1k 120°C = 39
297-0265	Solenoid:	Variable Relief 2	6.4
323-7894	Solenoid:	Boom Down Boom Up	11.5 ± 0.5
323-7942	Solenoid:	Variable Relief 1	6.4
324-5678	Resistor:	CAN	120
328-2035	Solenoid:	Quick Coupler	26.96 ± 1.6
335-0223	Solenoid:	Boom Down Stick In	11.5 ± 0.5
335-0376	Solenoid:	Boom Regeneration	11.5 ± 0.5
339-8822	Sensor:	NRS Intake Temperature	- 40°C = 1724.5k 25°C = 49k 300°C = 65
341-1842	Sender:	Fuel Level	Empty: 82 - 85 Full: 7.5 - 9
342-2924	Sender:	Hydraulic Temperature	0°C = 20.8k - 25.45k 25°C = 6.1k - 7.5k 125°C = 221 - 269
367-4226	Solenoid:	Waste Gate	10.9 ± 0.7

[1] At room temperature unless otherwise noted.

Off-Machine Switch Specification				
Part No.	**Function**	**Actuate**	**Deactuate**	**Contact Position**
350-5719	Fuel Differential Pressure	110 ± 10 kPa (16 ± 1.45 psi)	85 kPa MIN (12.33 psi)	Normally Closed

Related Electrical Service Manuals	
Title	**Form Number**
Cross Reference for Electrical Connectors:	REHS0970
Control: Engine	KENR9231

UENR3189-01 VOL 1 of 2
42 Page, (Dimensions: 56 inches x 35 inches)

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

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
- STARTING CIRCUIT
- MACHINE CONTROL CIRCUIT
- MACHINE SECURITY CONTROL CIRCUIT
- ENGINE CONTROL CIRCUIT
- HEATER AND AIR CONDITIONER CIRCUIT
- WIPER WASHER CIRCUIT
- CAT DATA LINK
- CAN DATA LINK
- ENGINE CAN DATA LINK
- LOW SPEED CAN DATA LINK

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

IDENT	PART NO.	SHEET	LOC	DESCRIPTION	NOTE
HARNESS AS.					
A	360-6291	1	K-6	PLATFORM	
F	377-8109	1	E-2	CAB-REAR RH	
G	324-5727	1	J-2	CONSOLE RH	
H	324-5725	1	L-6	CONSOLE LH	
J	327-9967	1	F-4	CAB-ROOF	
M	328-0345	1	F-1	CAB LAMP RH	NOTE A
	336-5964	1	F-1	CAB LAMP RH (FRONT GUARD)	NOTE B
	350-8185	1	F-1	CAB LAMP RH-HID (FRONT GUARD)	NOTE C
	350-8136	1	F-1	CAB LAMP RH-HID (HEAD GUARD)	NOTE D
R	328-0345	1	F-1	CAB LAMP LH	NOTE A
	336-5964	1	F-1	CAB LAMP LH (FRONT GUARD)	NOTE B
	350-8185	1	F-1	CAB LAMP LH-HID (FRONT GUARD)	NOTE C
	350-8136	1	F-1	CAB LAMP LH-HID (HEAD GUARD)	NOTE D
AC	350-8490	1	C-2	MSS	
AF	360-6264	1	I-4	CAB-FRONT RH	
AG	342-2891	1	G-1	SERVICE METER	
AP	369-0281	1	I-15	CRANE (CAB)	
AR	369-0240	1	J-6	CRANE (PLATFORM)	
AW	336-5893	1	B-10	QUICK COUPLER (TOGGLE SW)	
AX	369-0178	1	D-4	QC,UQC (CAB)	
CK	328-0340	1	D-17	REAR VIEW CAMERA	
GA	360-6292	1	H-15	TSC20, 21, 25+BOOM FLOAT (CAB)	NOTE G, H, J
GC	360-6293	1	I-6	TSC20, 21, 25+BOOM FLOAT (PLATFORM)	NOTE G, H, J
GG	360-6294	1	H-15	TCS 10, 11 W/HAMMER (CAB)	NOTE E, F
GH	360-6295	1	I-6	TCS 10, 11 W/HAMMER (PLATFORM)	NOTE E, F
GL	342-3295	1	C-12	RADIO	
HE	350-8441	1	K-4	BLADE	
HJ	360-6274	1	A-18	CRANE (CAUTION LAMP)	
HL	377-8190	1	I-15	CRANE (CAB)	

IDENT	PART NO.	SHEET	LOC	DESCRIPTION	NOTE
WIRE AS. / CABLE AS.					
WF	324-5756	1	E-17	REFUELING PUMP	
FA	306-8689	1	A-14	MAIN RELAY - FUSE BASE (177 RD)	
FC	328-0046	1	A-14	MAIN RELAY - FUSE BASE (122 PU)	
FE	350-8462	1	I-17	REAR PANEL - MAIN RELAY (177 RD)	
YA	369-0153	1	D-8	SOCKET A - 12V 10A SOCKET(135 BU)	
YC	369-0153	1	D-8	SOCKET B - 12V 10A SOCKET(135 BU)	

NOTE A: USE WITH CAB LIGHTS.
NOTE B: USE WITH CAB GUARD (FRONT GUARD) CAB LIGHT (HALOGEN).
NOTE C: USE WITH CAB GUARD (FRONT GUARD) CAB LIGHT (HID).
NOTE D: USE WITH CAB GUARD (HEAD GUARD) CAB LIGHT.
NOTE E: USE WITH TOOL 10.
NOTE F: USE WITH TOOL 11.
NOTE G: USE WITH TOOL 20.
NOTE H: USE WITH TOOL 21.
NOTE J: USE WITH TOOL 25.
NOTE P: USE WITH FROM 312E TO 320E. (OTHER THAN "THESE MODELS", THIS PART IS UNUSED)
NOTE N: USE WITH FROM 312E TO 320E. (OTHER THAN "THESE MODELS", THIS PART IS SPARE)
NOTE L: USE WITH FROM 312E TO 329E. (OTHER THAN "THESE MODELS", THIS PART IS SPARE)
NOTE K: USE WITH 336E AND 349E. (OTHER THAN "THESE MODELS", THIS PART IS SPARE)

CALLOUTS

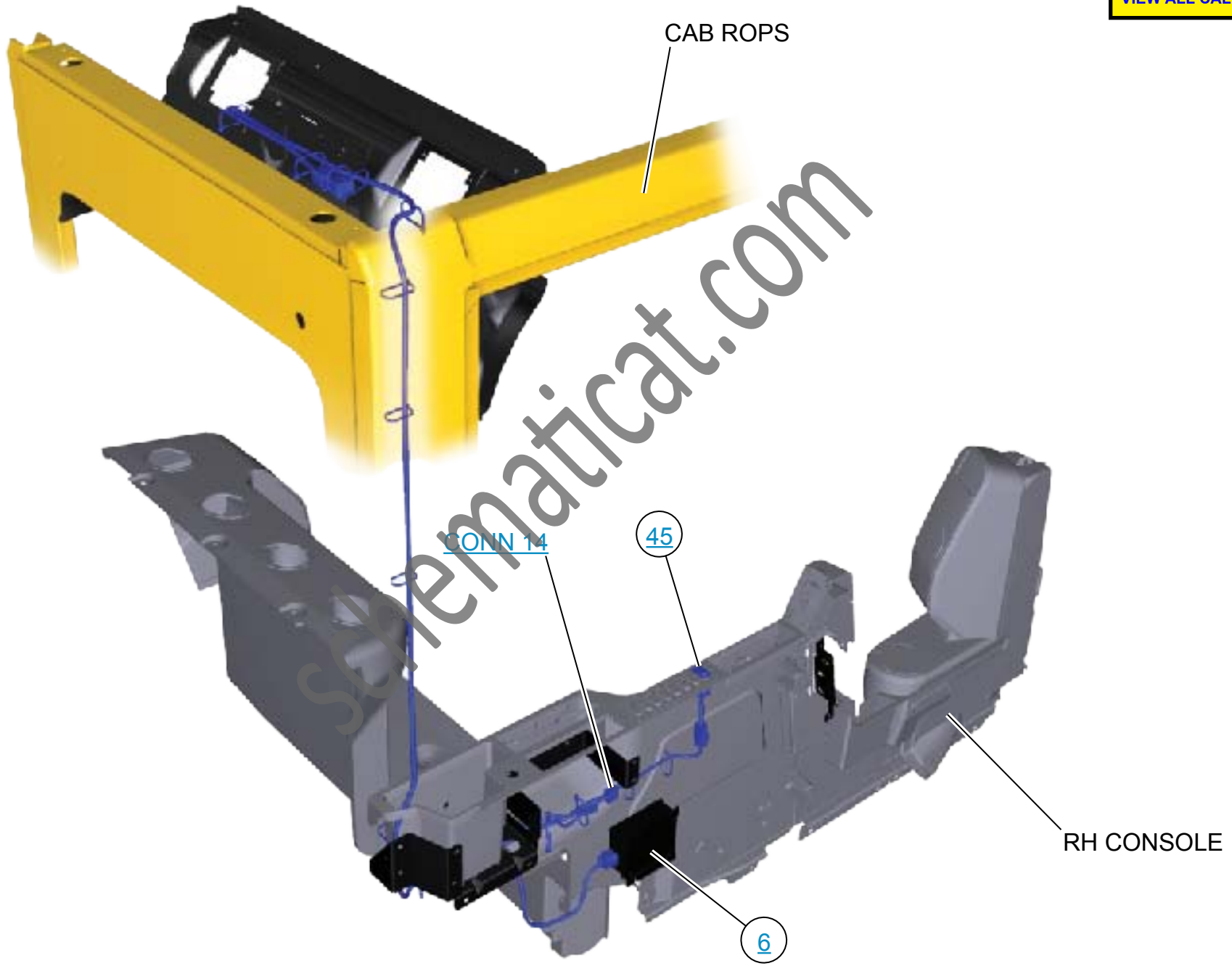
Callout Number (Machine Location from Component Locations Table) → (52) VALVE GP - CONTROL ← Component Name
138-1234 ← Part Number

THIS SCHEMATIC IS FOR THE 318E EXCAVATOR ELECTRICAL SYSTEM
VOLUME 1 of 2: CAB WIRING
MEDIA NUMBER: UENR3189-01
SCHEMATIC PART NUMBER: 364-0272, CHANGE: 03, VERSION: HE
Components are shown installed on a fully operable machine with the key and engine off, and with parking brake set.
Refer to the appropriate Service Manual for Troubleshooting, Specifications and Systems Operations.

UENR3189-01 VOL 2 of 2
42 Page, (Dimensions: 56 inches x 35 inches)

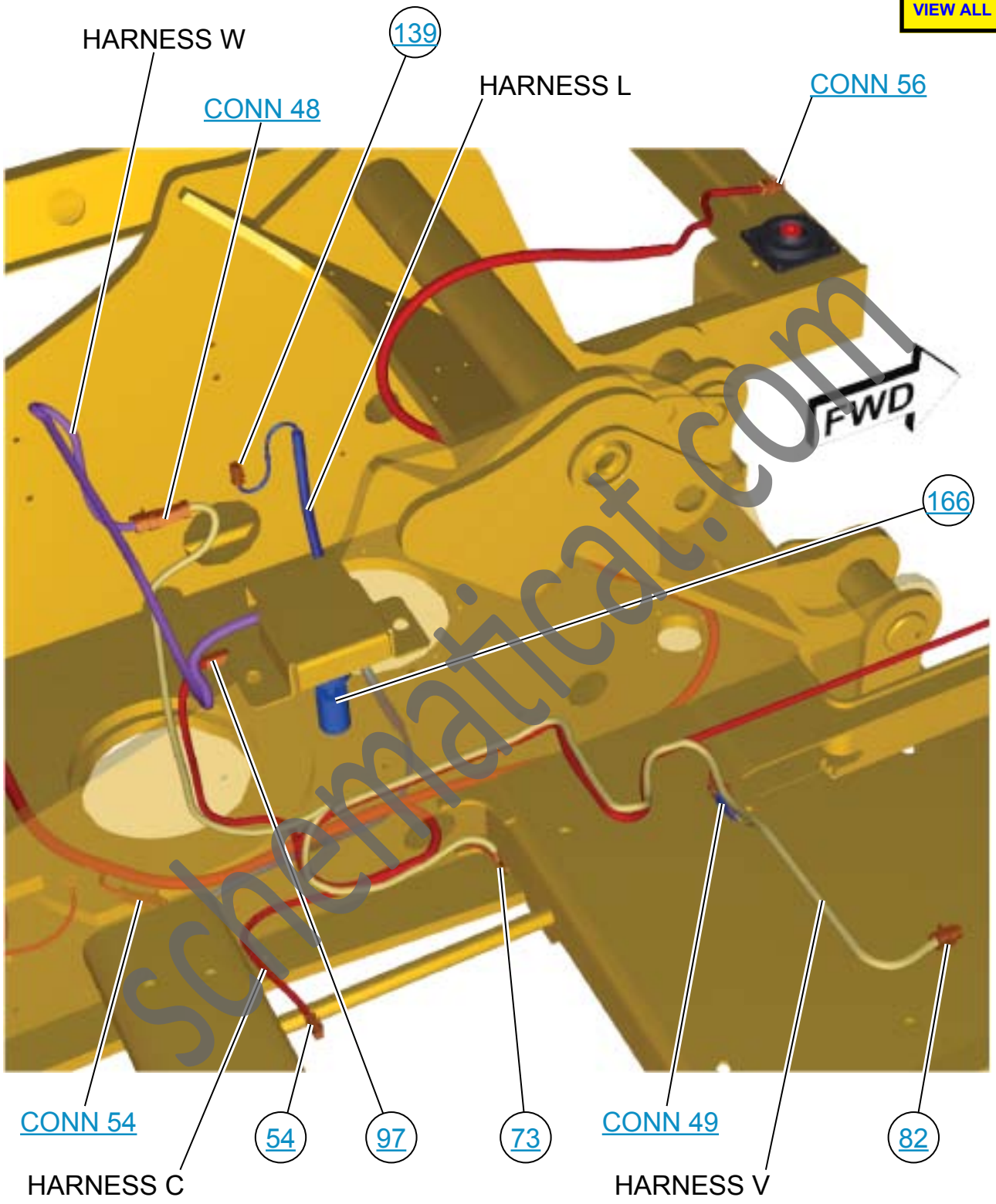
ROPS HARNESS VIEW

VIEW ALL CALLOUTS



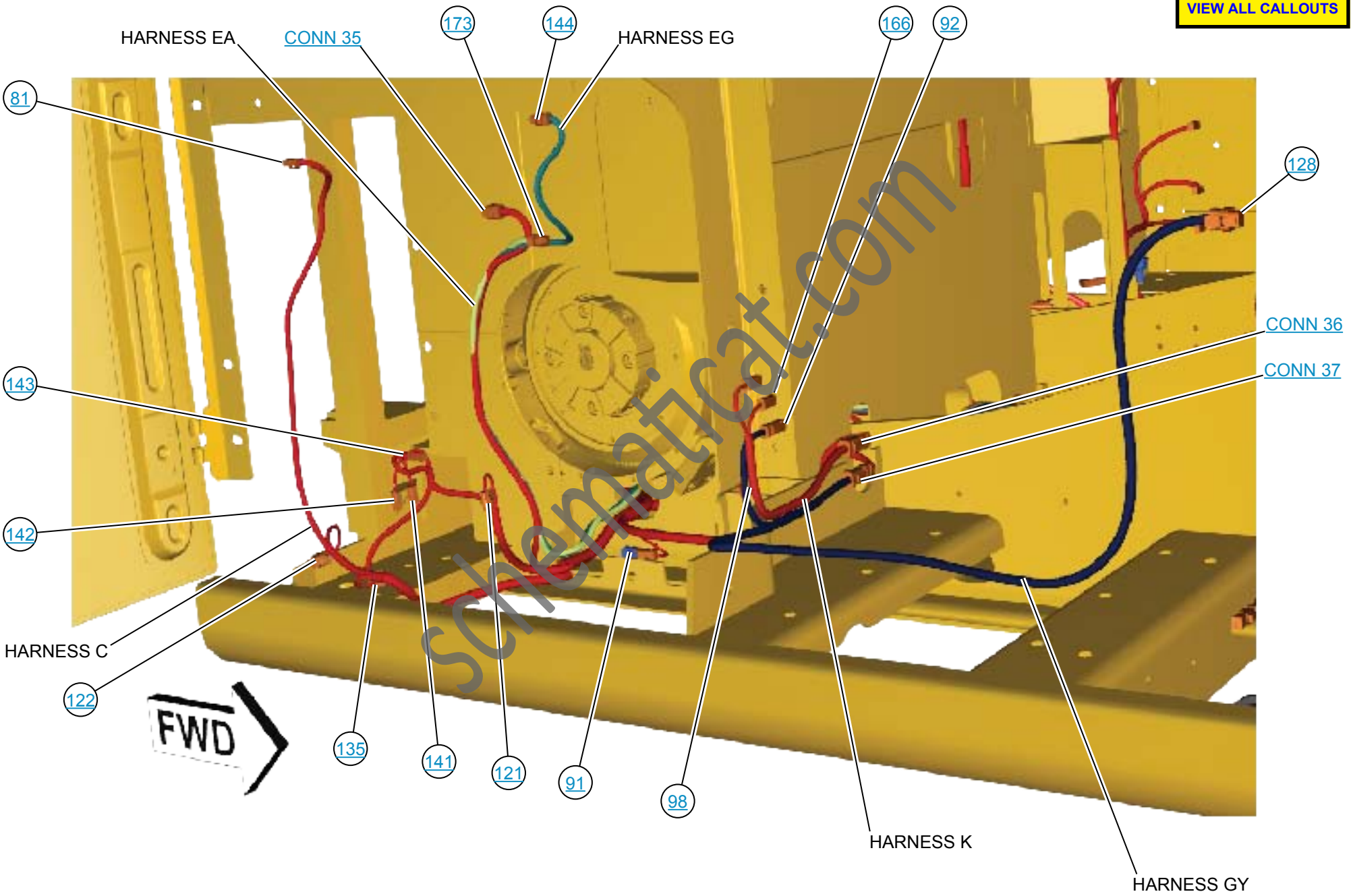
REFUELING and FINE SWING VIEW

VIEW ALL CALLOUTS



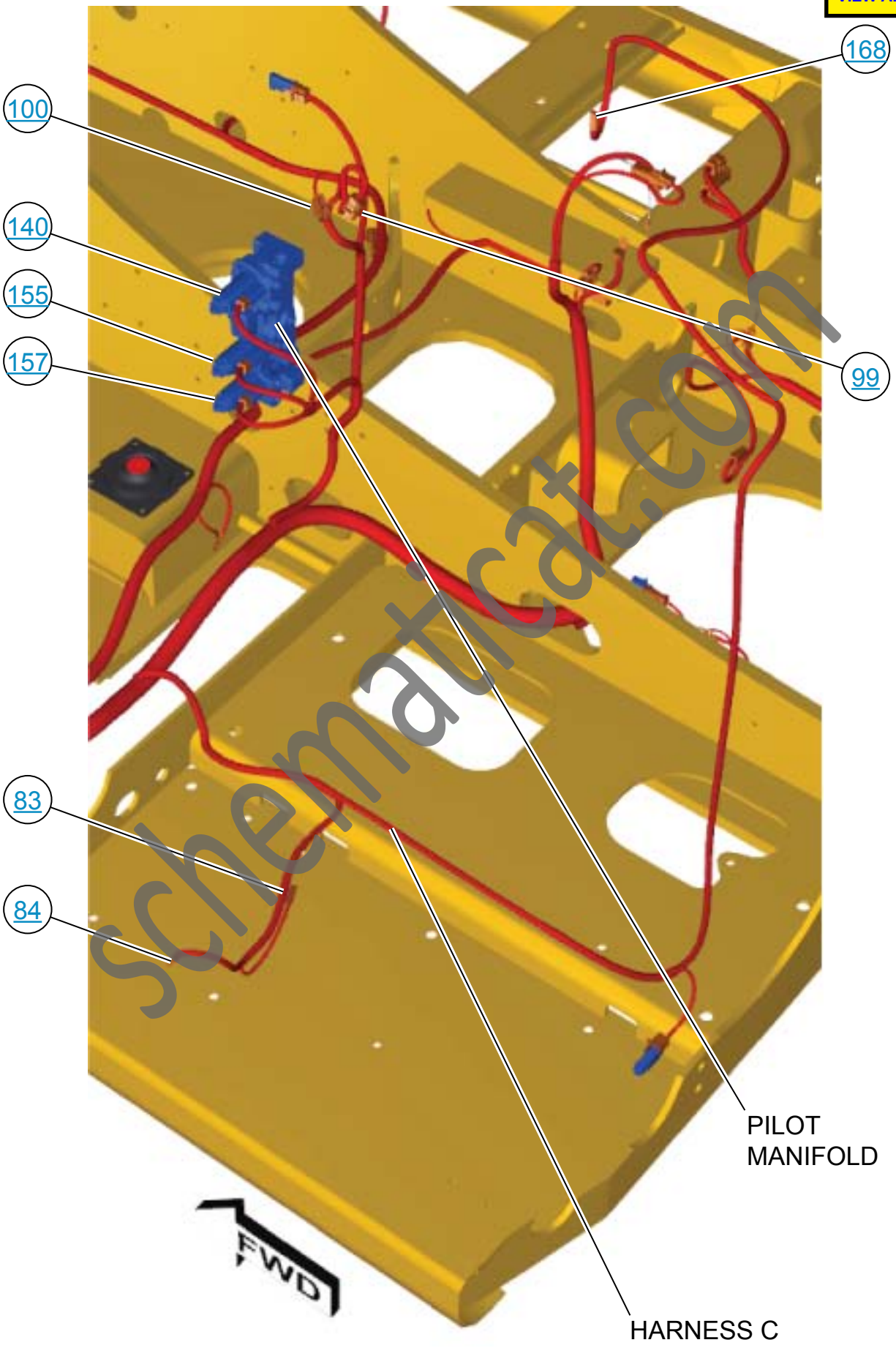
PUMP ROOM

VIEW ALL CALLOUTS



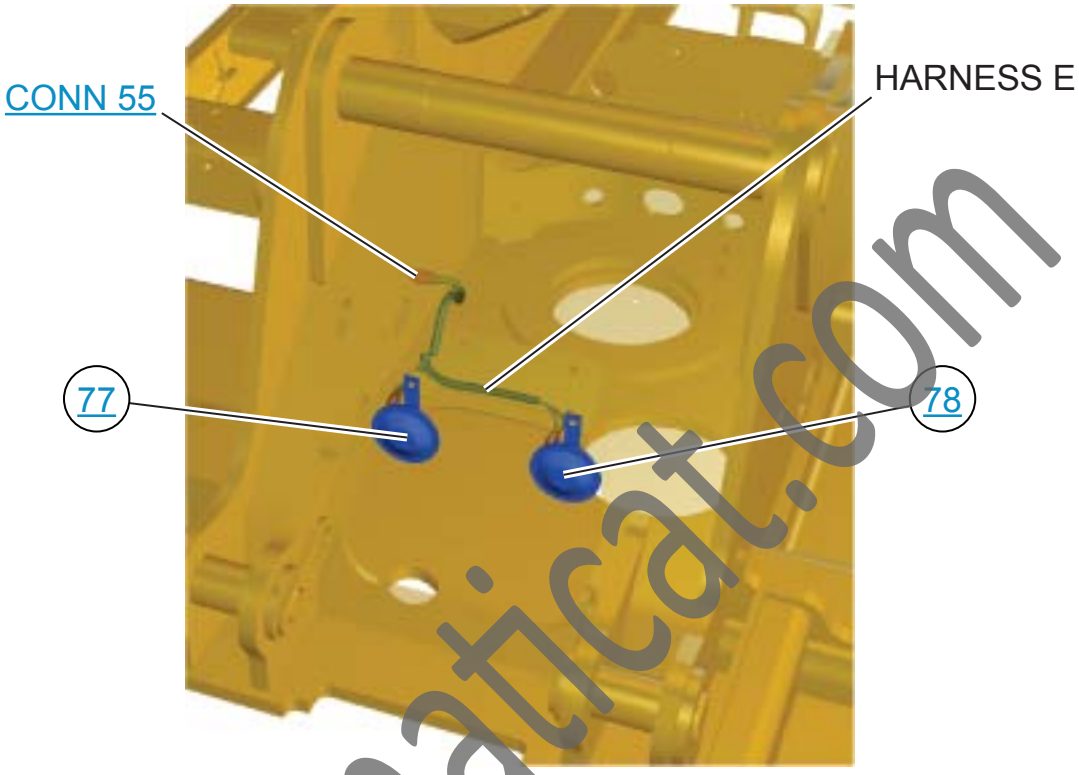
PILOT MANIFOLD VIEW

VIEW ALL CALLOUTS



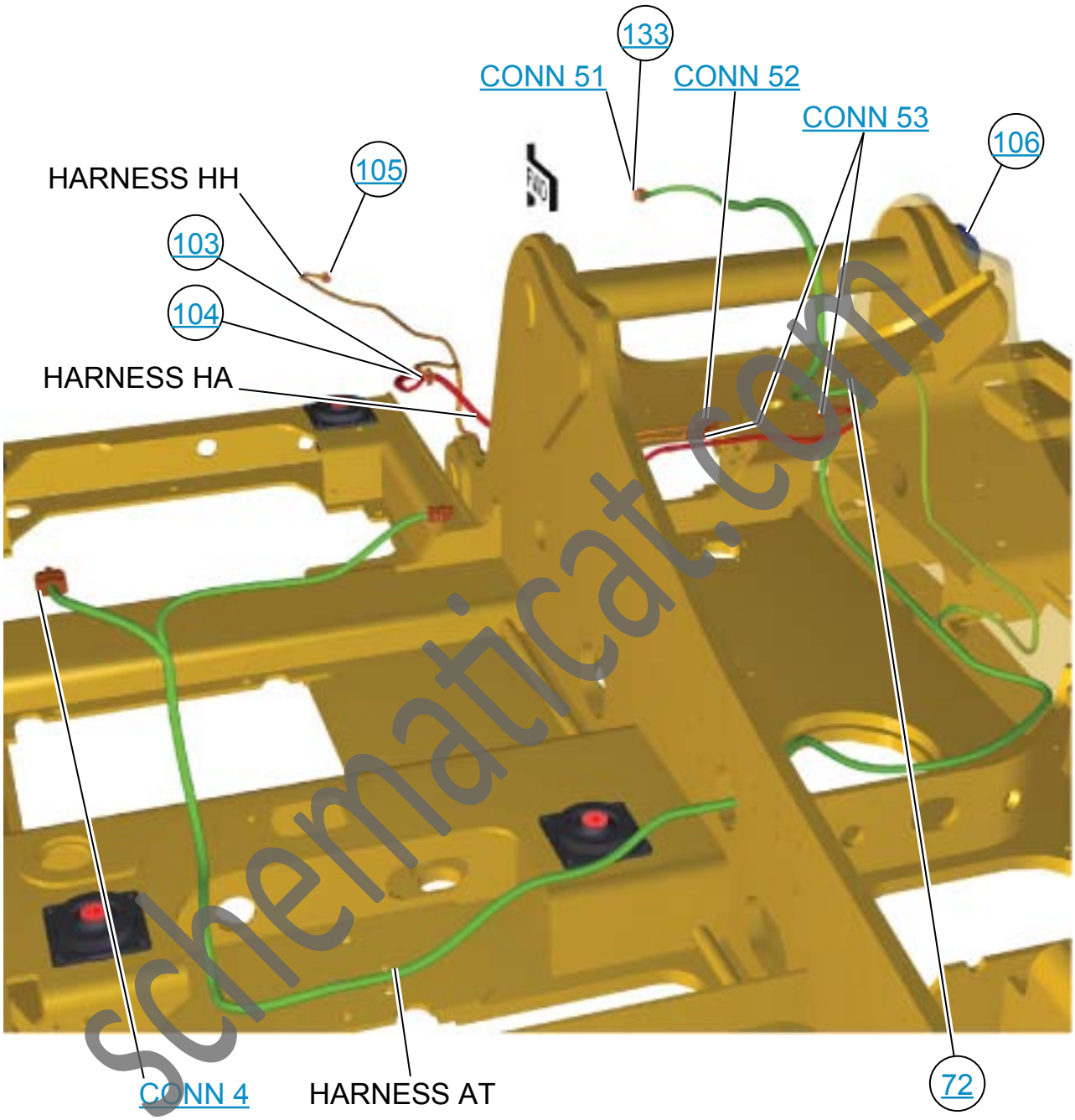
HORNS VIEW

VIEW ALL CALLOUTS



HARNESSES AT, HH, HA VIEW

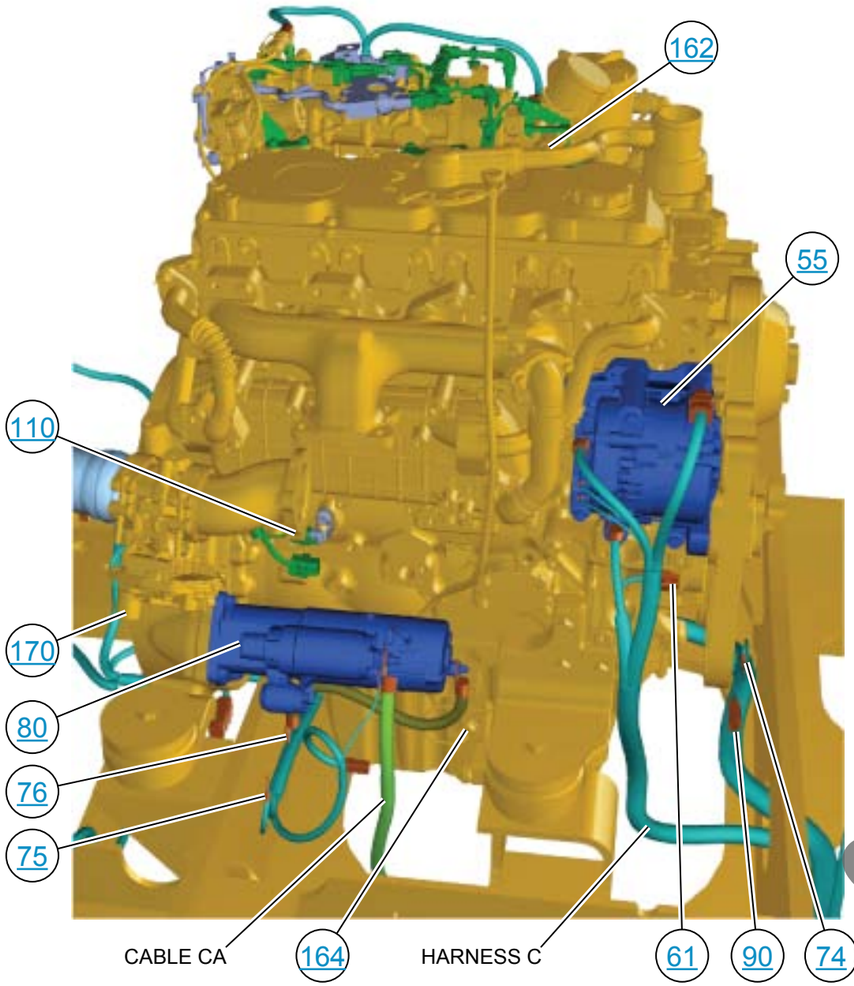
VIEW ALL CALLOUTS



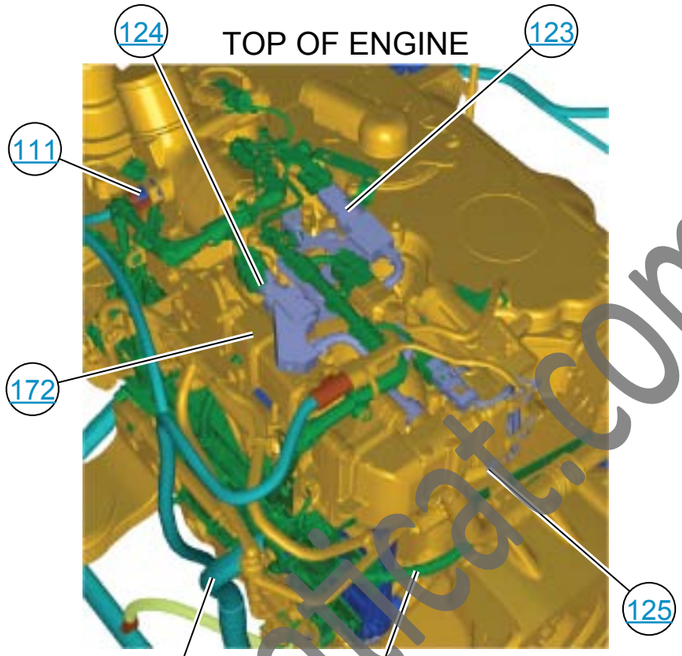
ENGINE VIEW

VIEW ALL CALLOUTS

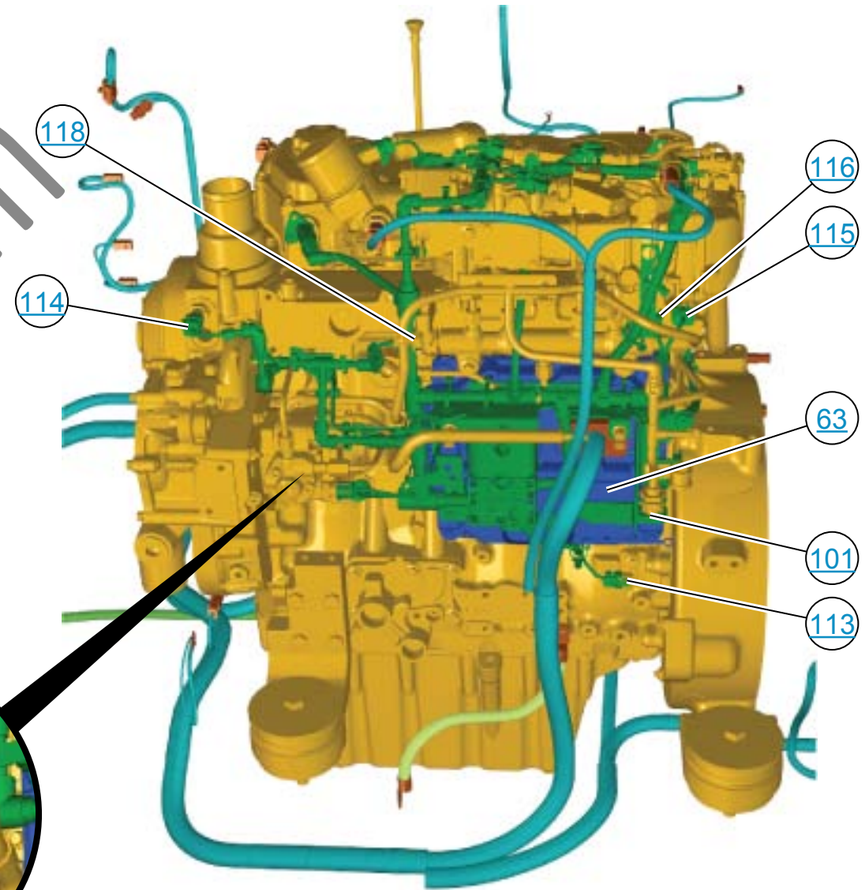
FRONT OF ENGINE

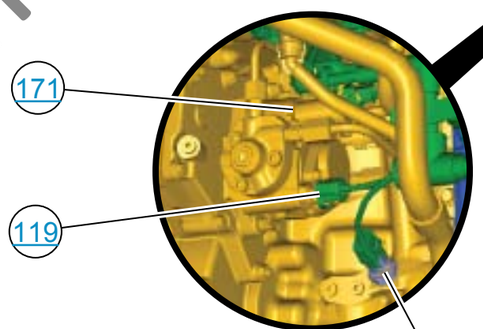


TOP OF ENGINE



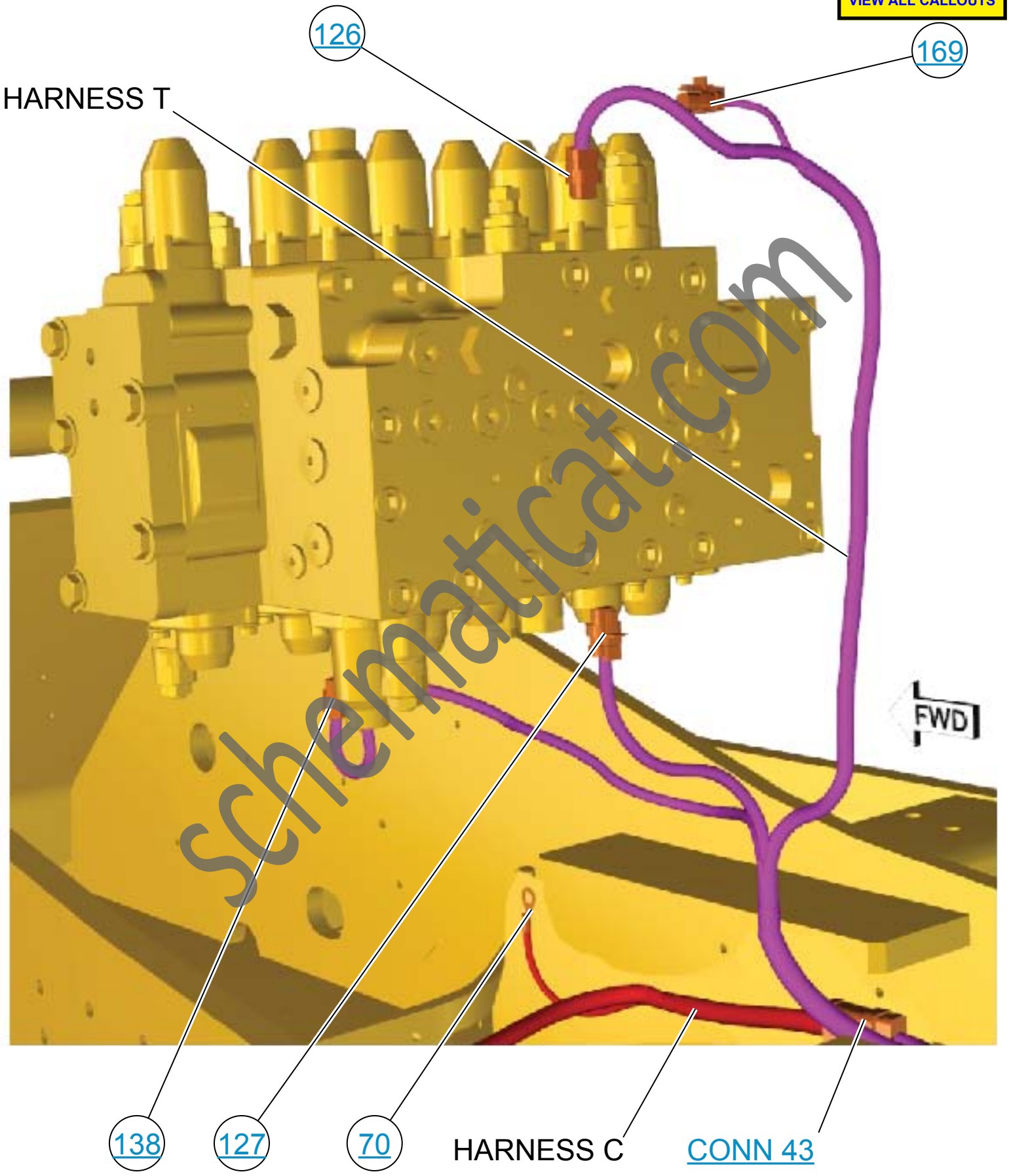
REAR OF ENGINE





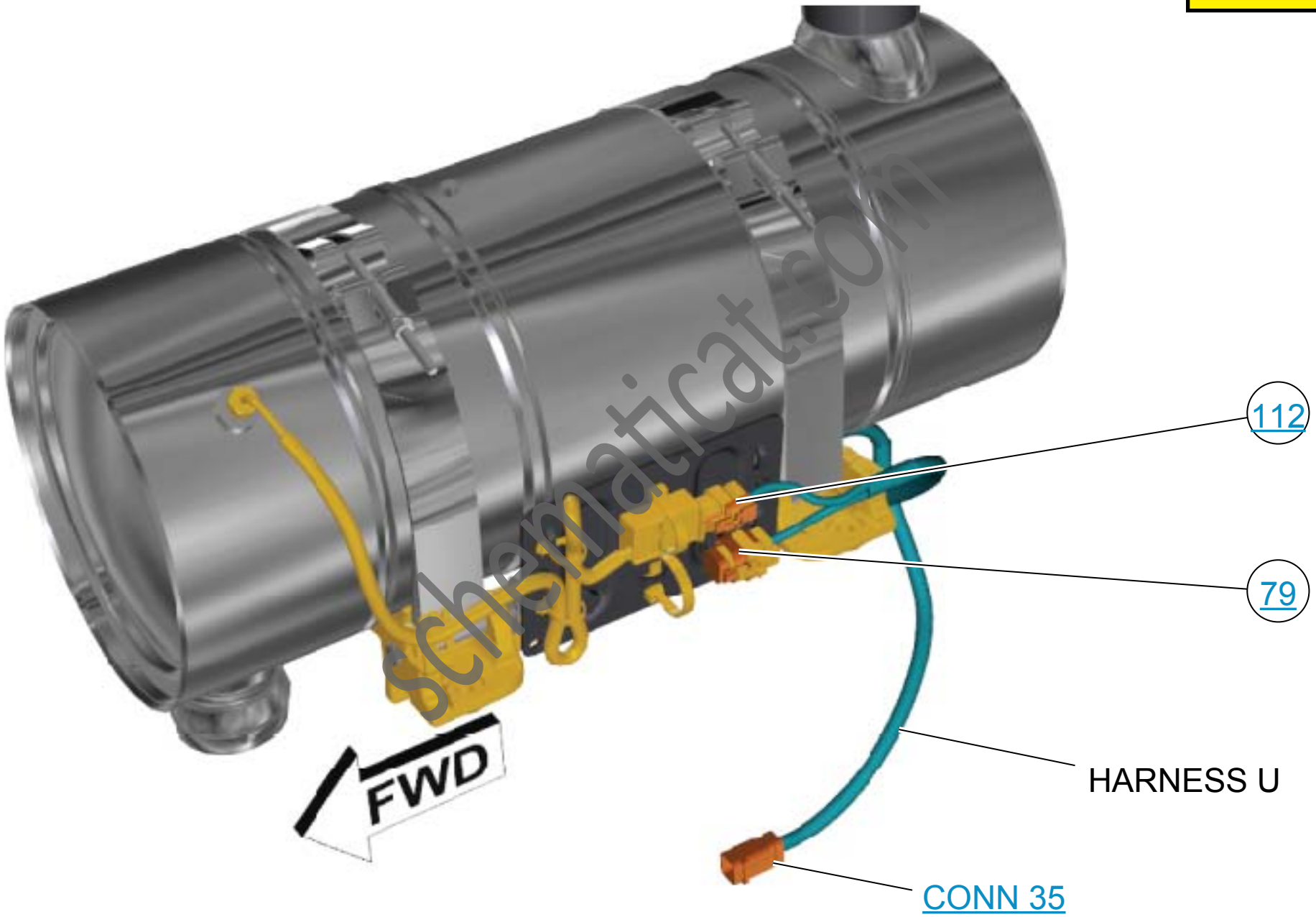
CONTROL VALVE

VIEW ALL CALLOUTS



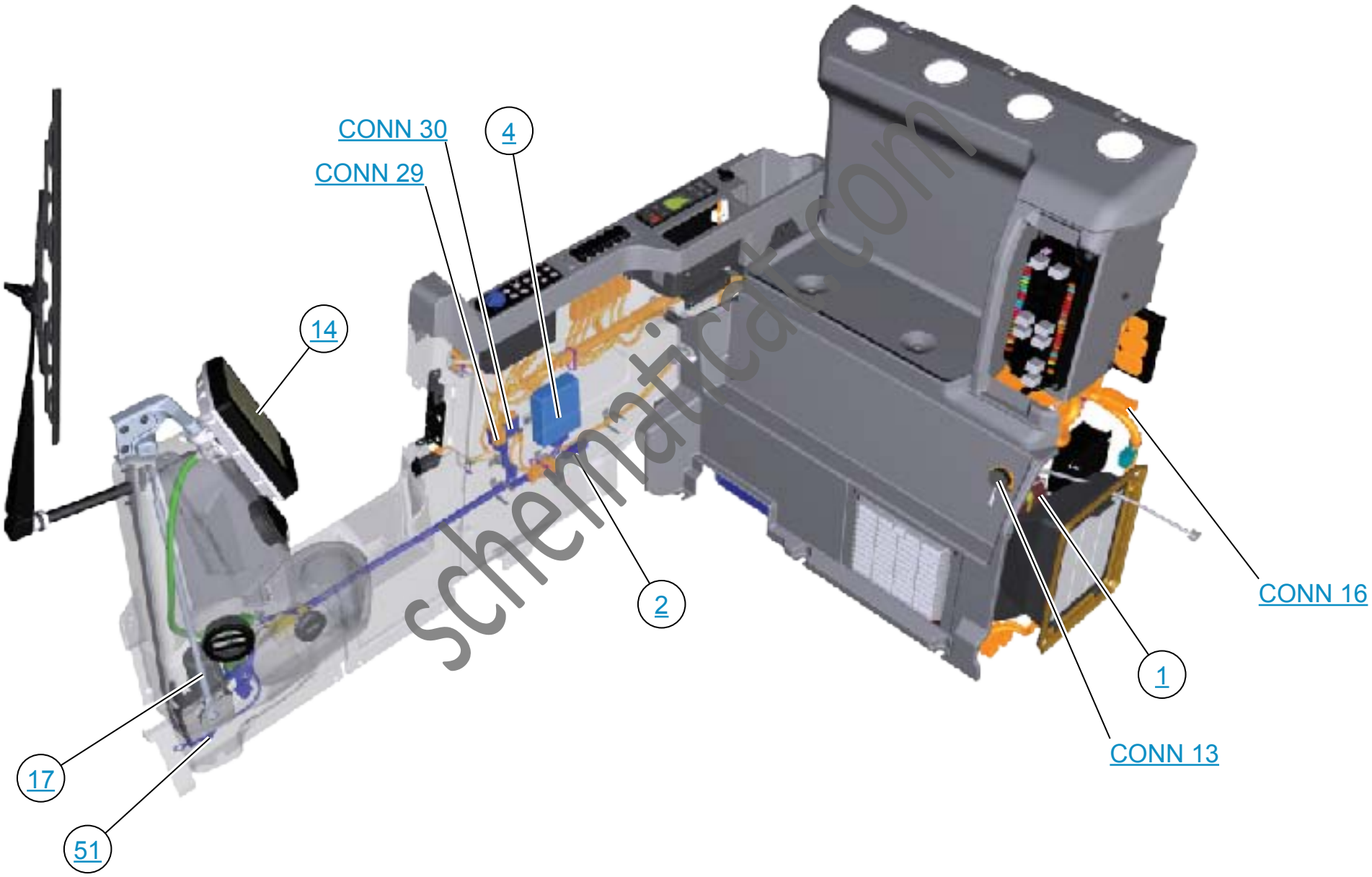
CEM

VIEW ALL CALLOUTS



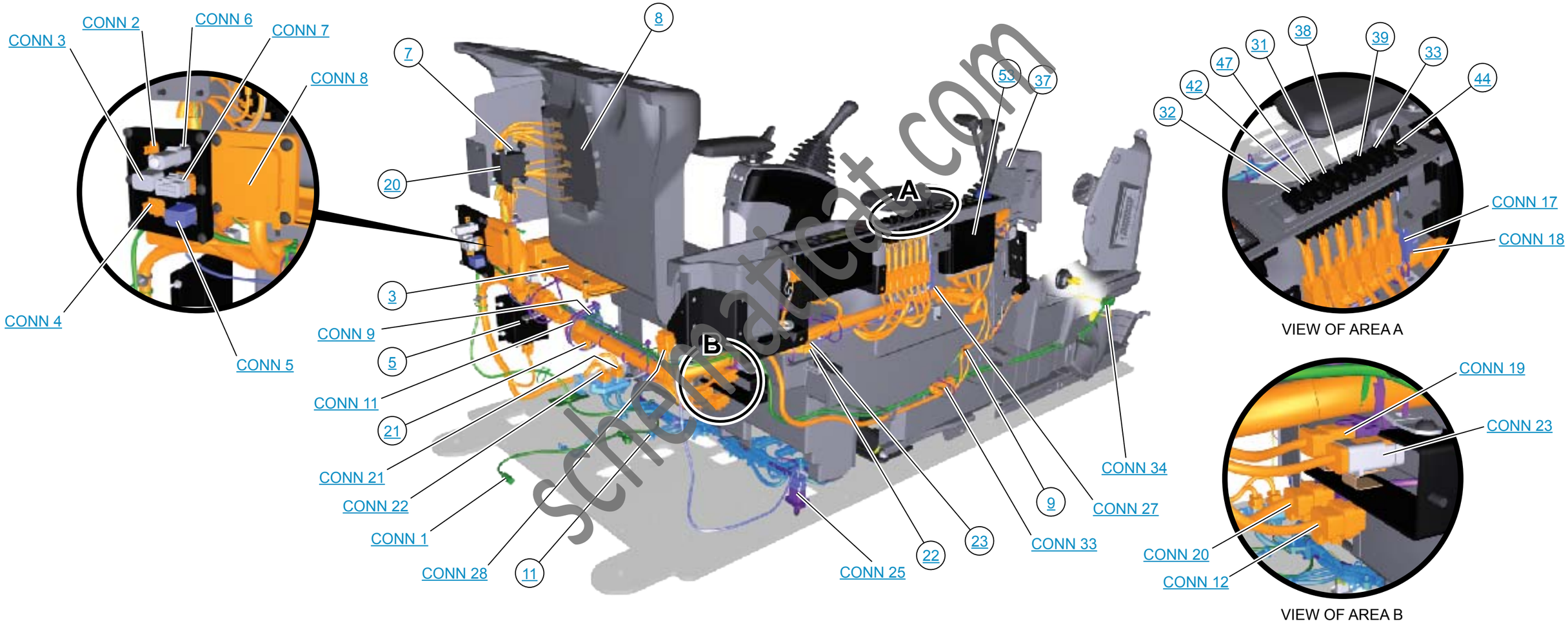
CAB RH CONSOLE VIEW

VIEW ALL CALLOUTS



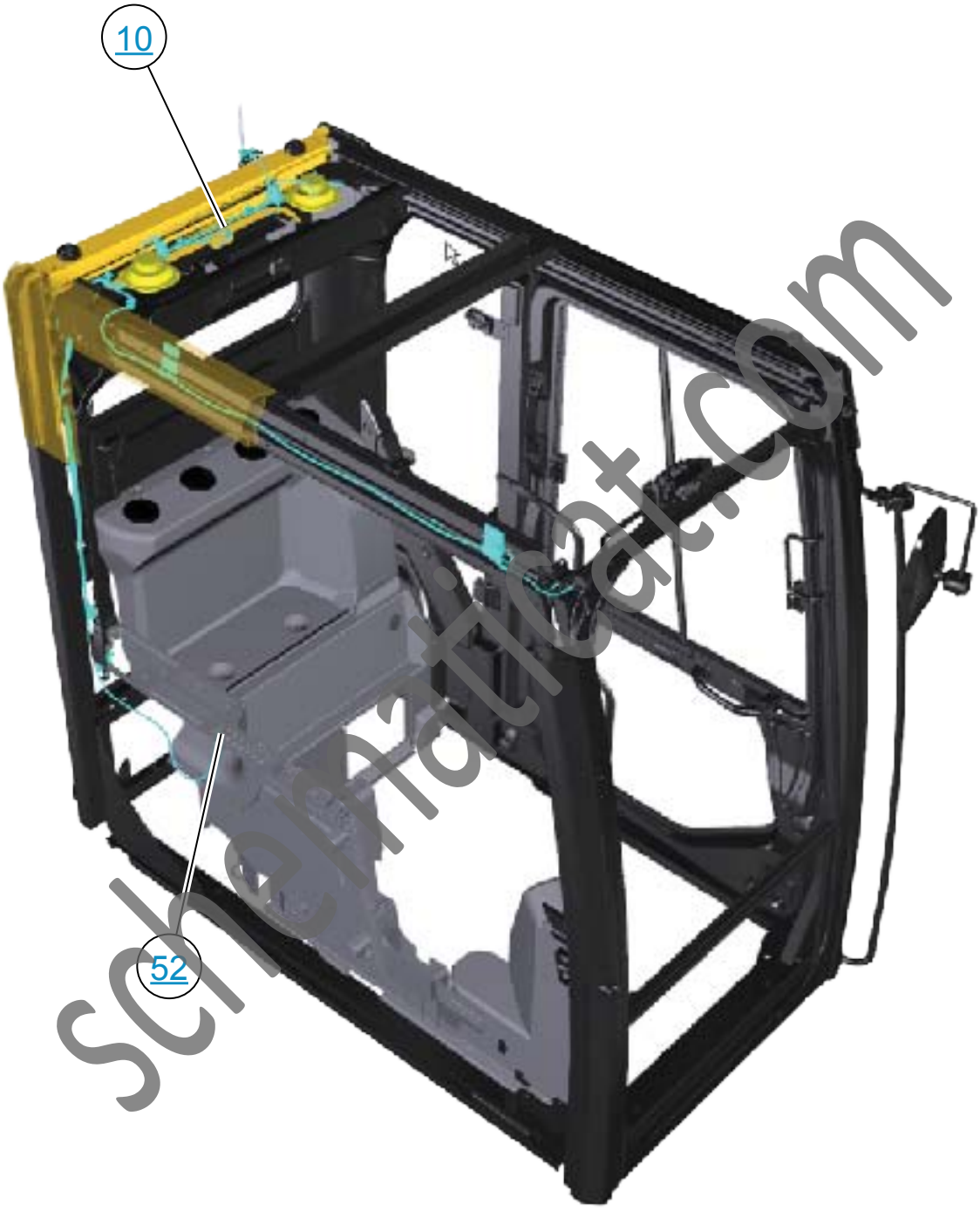
CAB LH VIEW

VIEW ALL CALLOUTS



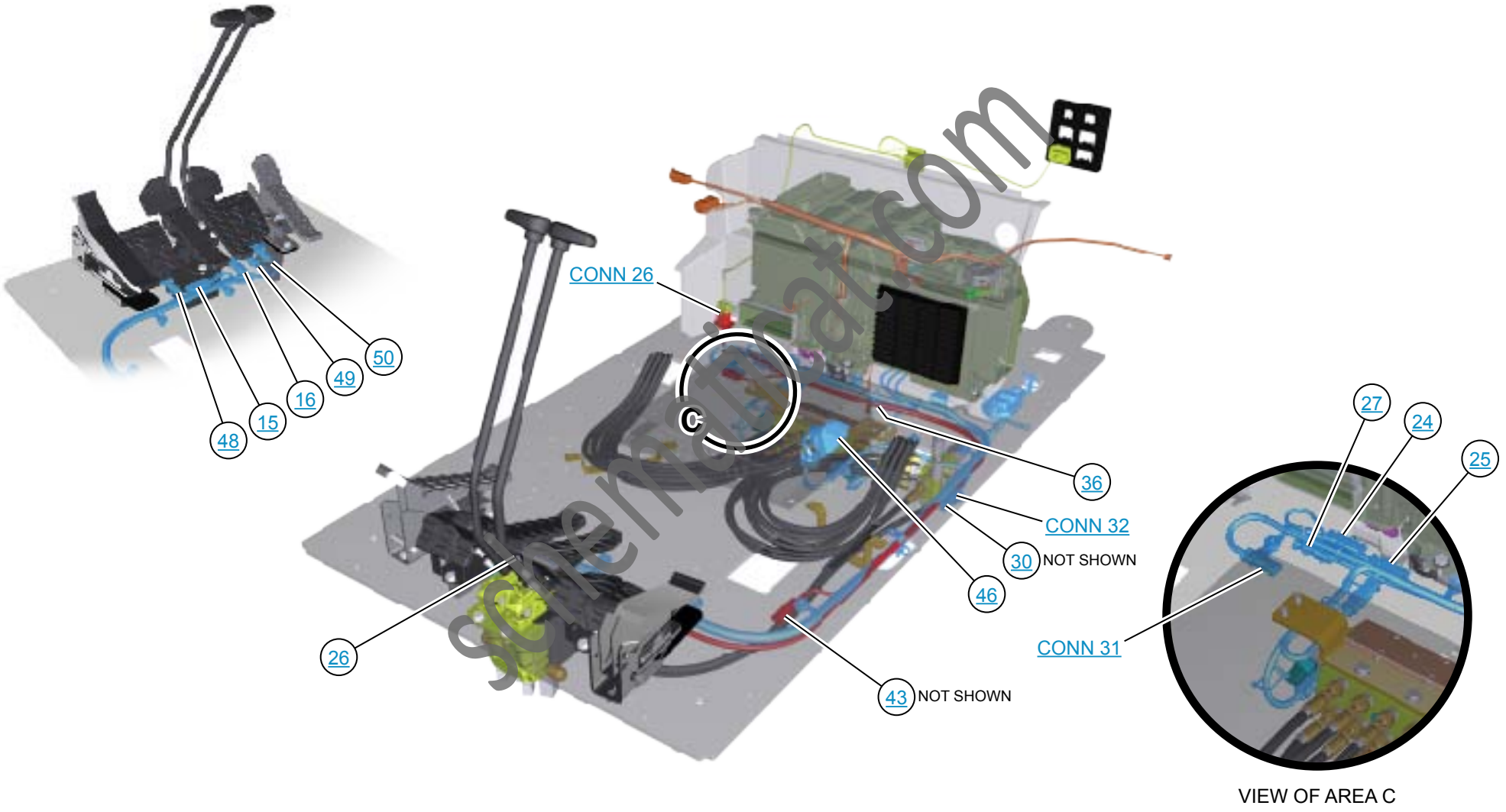
CAB FRAME VIEW

VIEW ALL CALLOUTS



CAB FLOOR VIEW

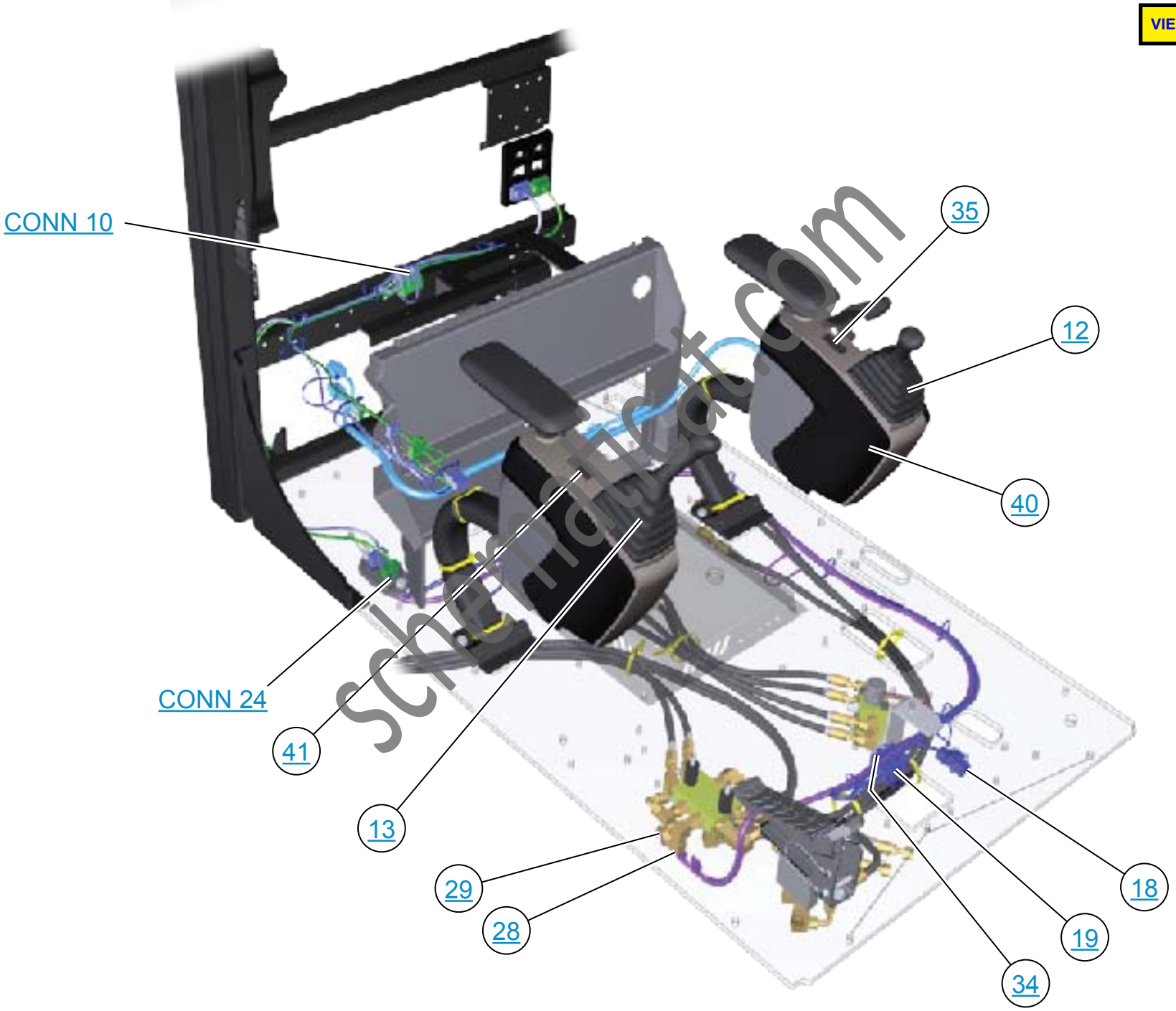
VIEW ALL CALLOUTS



VIEW OF AREA C

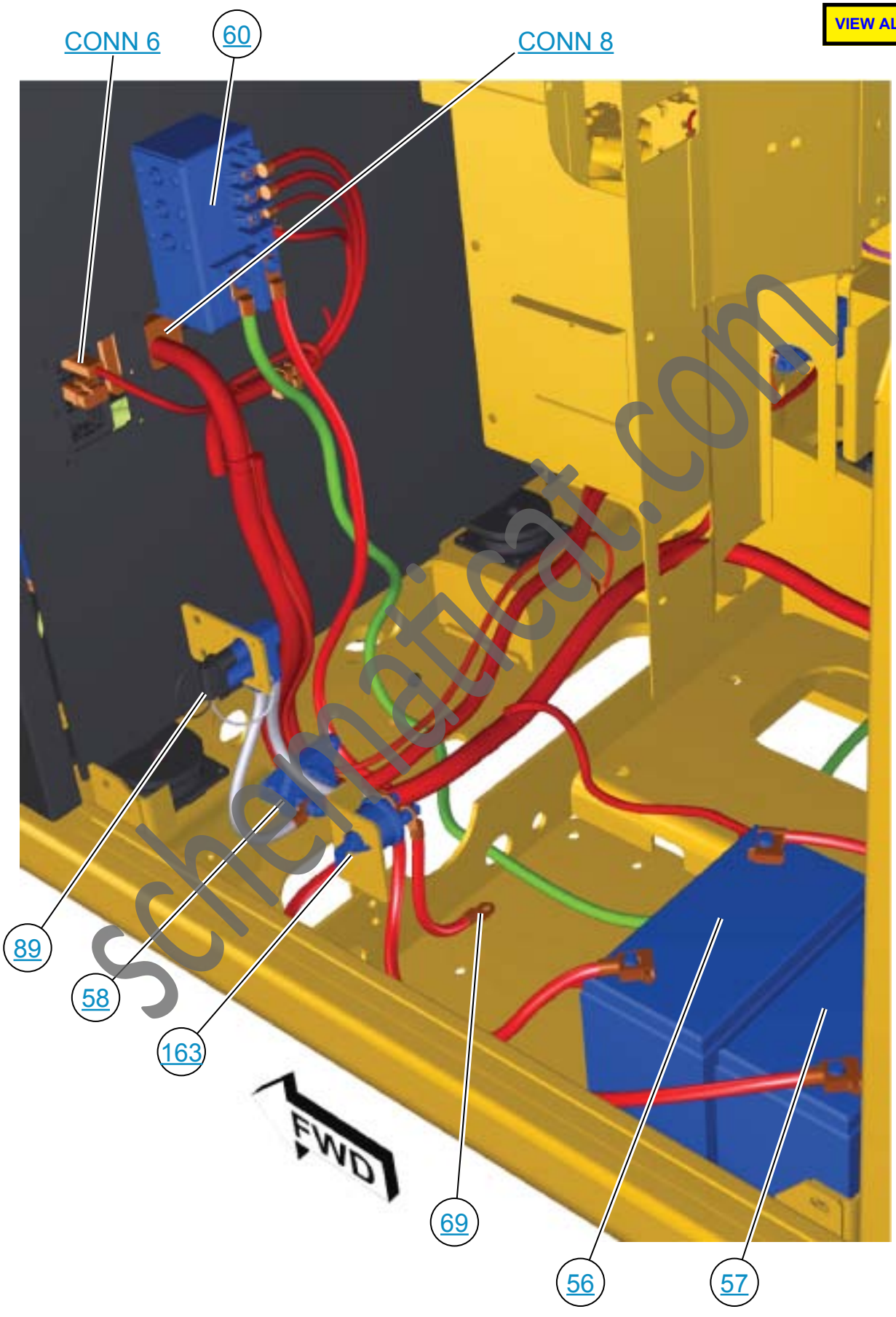
CAB CONTROLS VIEW

VIEW ALL CALLOUTS



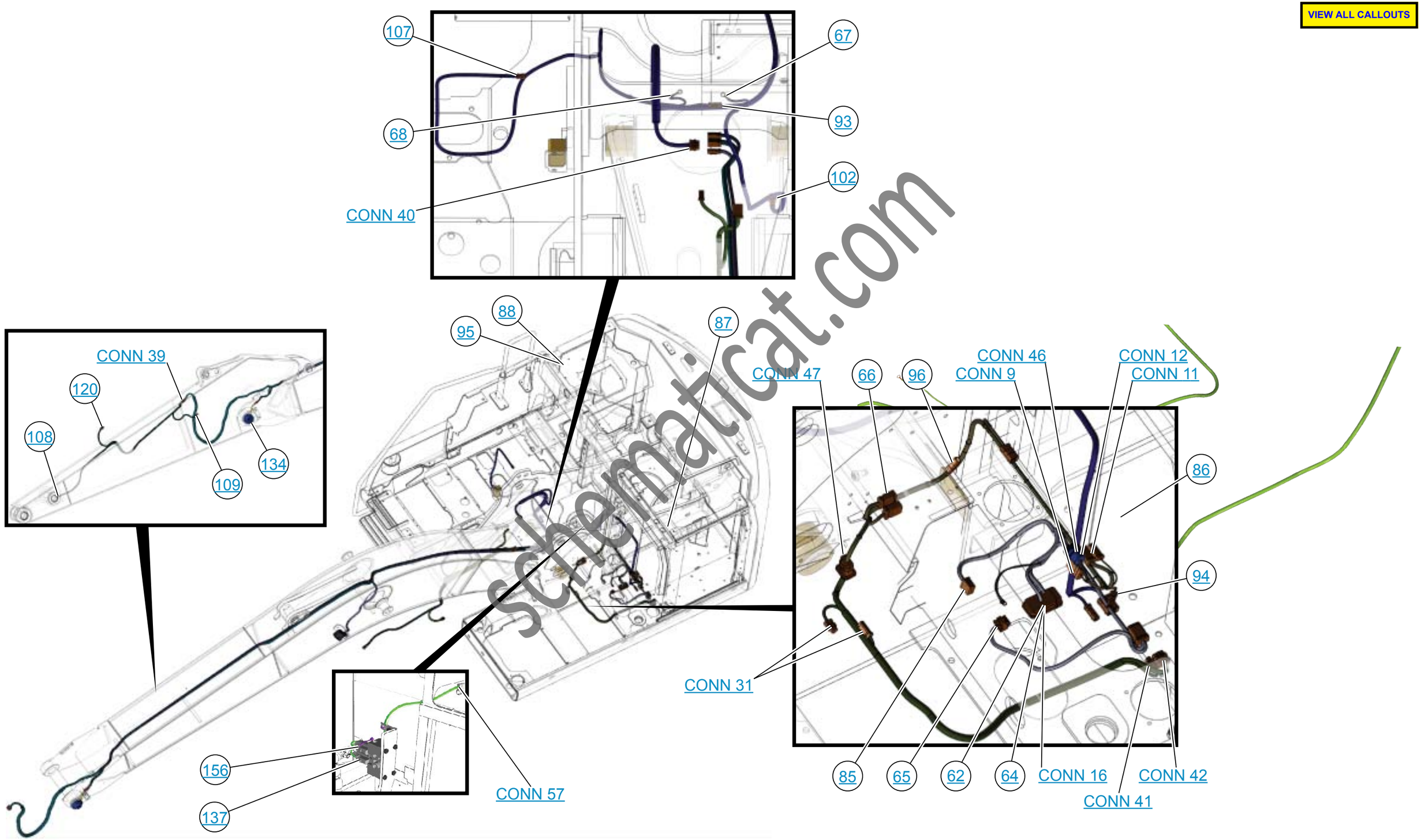
BATTERY ROOM VIEW

VIEW ALL CALLOUTS



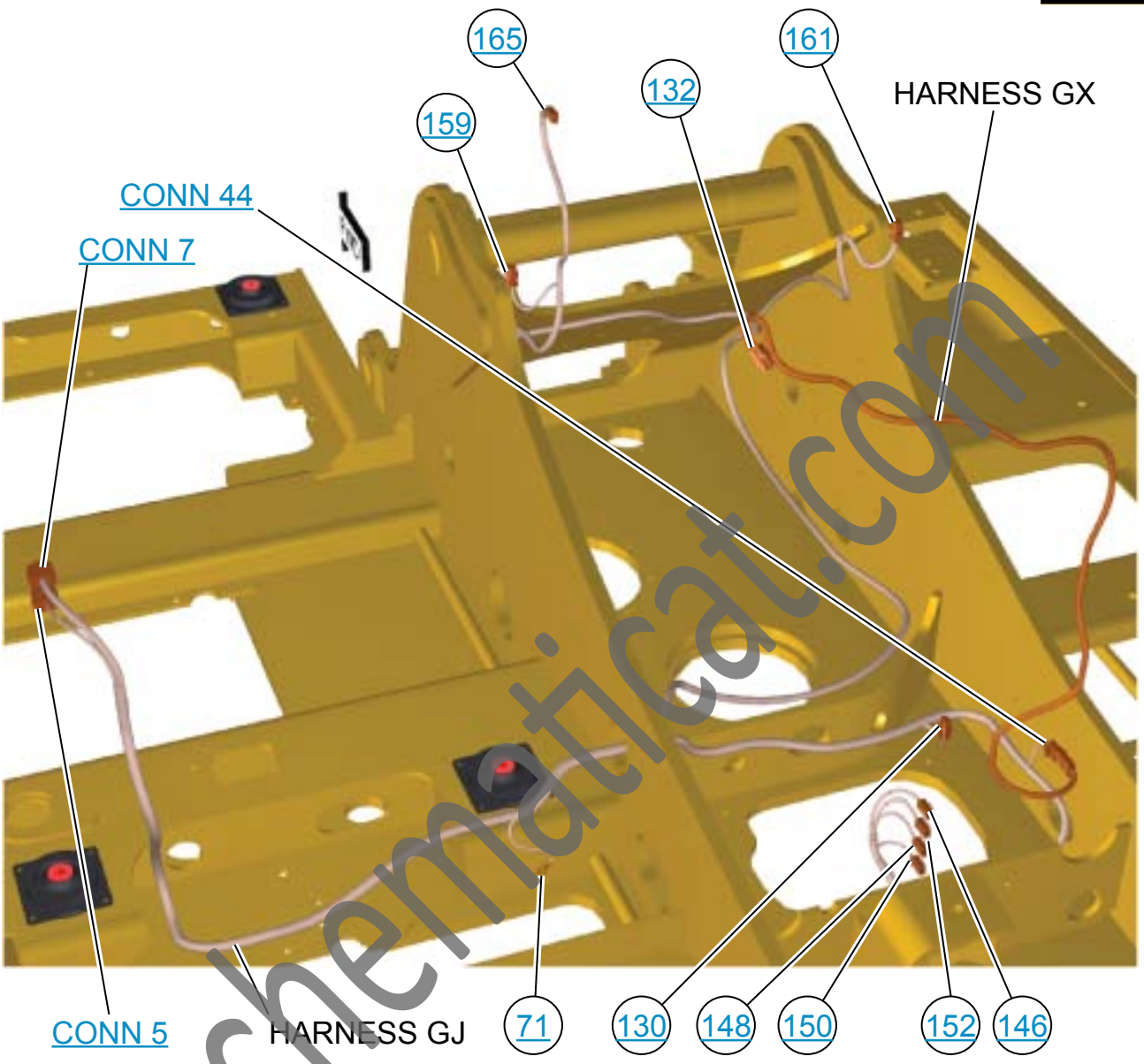
ACCUGRADE and PRODUCT LINK VIEW

VIEW ALL CALLOUTS



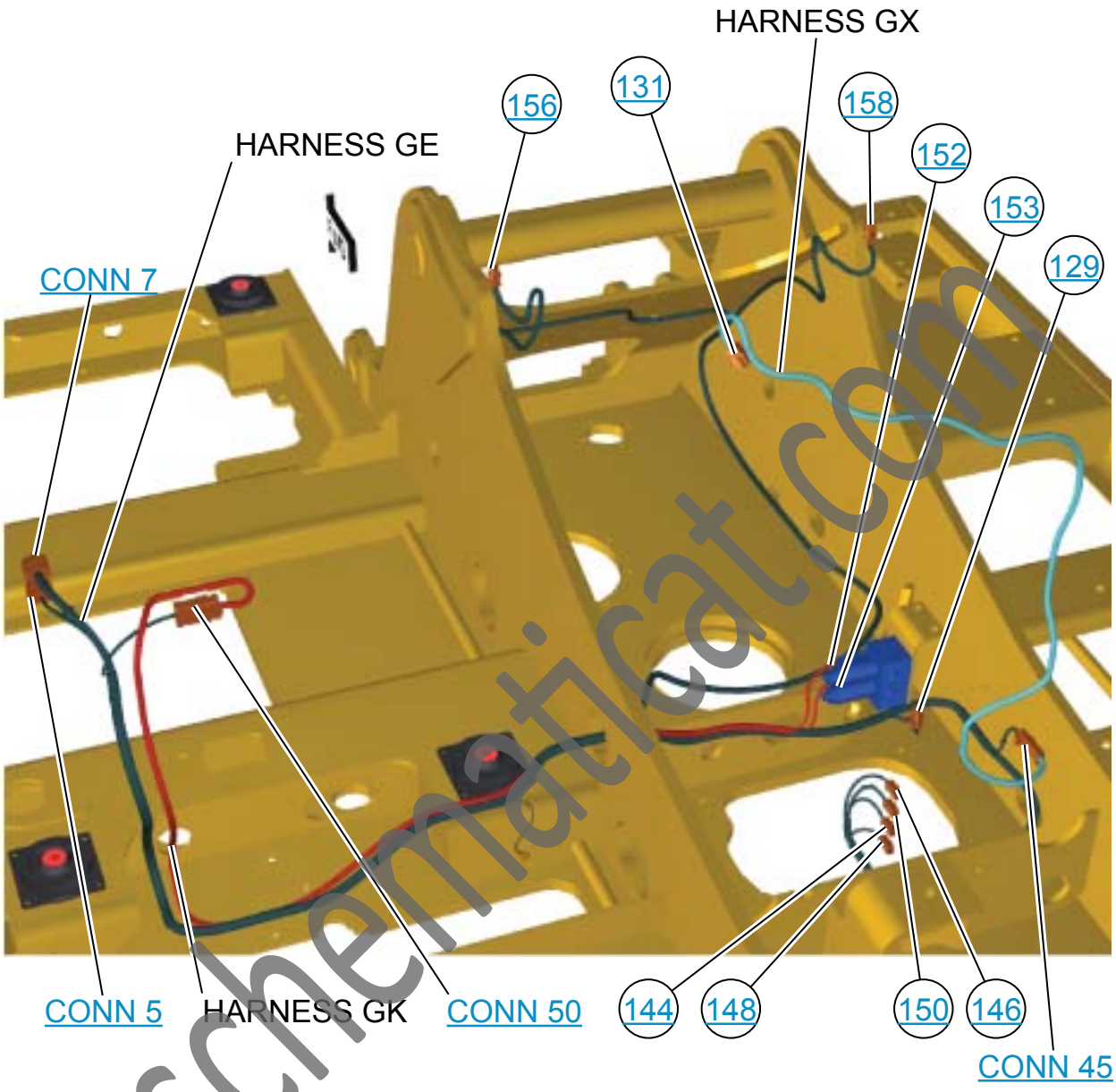
TOOL 10 with HAMMER VIEW

VIEW ALL CALLOUTS



TOOL 20, 21, 25 and MEDIUM CIRCUIT VIEW

VIEW ALL CALLOUTS



WAVS CAMERA

VIEW ALL CALLOUTS