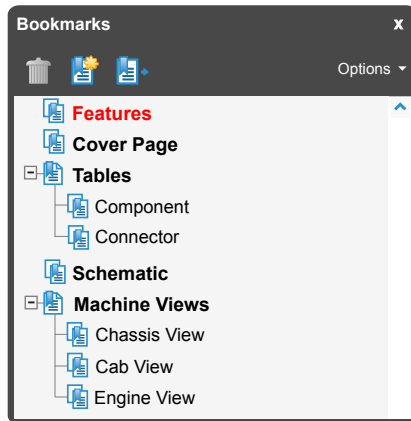


INTERACTIVE SCHEMATIC



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**.

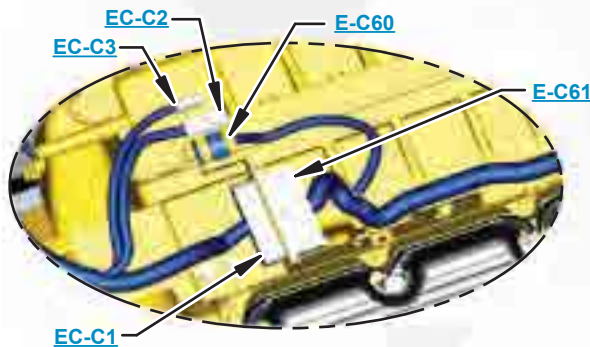
Select **PROPERTIES**.

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.



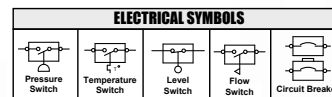
[Click here to save a copy of this interactive schematic to your desktop](#)

VIEW ALL CALLOUTS

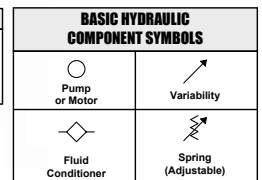
When only one callout is showing on a machine view, clicking on this button will make all of the callouts visible. This button is located in the top right corner of every machine view page.

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"
	Search	"CTRL" / "SHIFT" / "F"



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





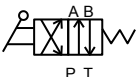
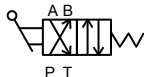
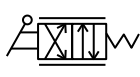
Schematic

C3.4B XQ60 Rental Generator Set Electrical System

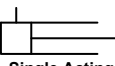
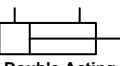
CF61-UP
CF91-UP

SCHEMATIC SYMBOLS AND DEFINITIONS



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

INTERNAL PASSAGEWAYS			
 Infinite Positioning	 Two Position	 Three Position	 CROSS FLOW

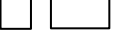
CYLINDERS	
 Single Acting	 Double Acting

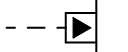
ACCUMULATORS	
 Spring Loaded	 Gas Charged

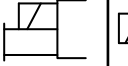
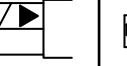
PUMPS	
FIXED DISPLACEMENT	
 Unidirectional	 Bidirectional
VARIABLE DISPLACEMENT NON- COMPENSATED	
 Unidirectional	 Bidirectional

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

ROTATING SHAFTS	
 Unidirectional	 Bidirectional

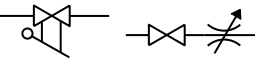
BASIC HYDRAULIC COMPONENT SYMBOLS	
 Pump or Motor	 Variability
 Fluid Conditioner	 Spring (Adjustable)
 Spring	 Pressure Compensation
 Control Valves	 Line Restriction (Variable)
 Restriction	 Line Restriction (Fixed)
 Line Restriction Variable and Pressure Compensated	 MAIN AUX. 2-Section Pump
 Attachment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

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

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

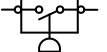
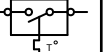
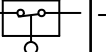
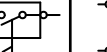
LINES	
 Crossing	 Joining

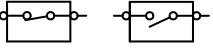
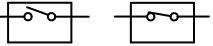
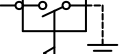
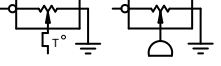
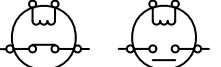
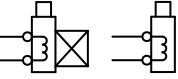
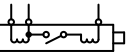
MEASUREMENT		
 Pressure	 Temperature	 Flow

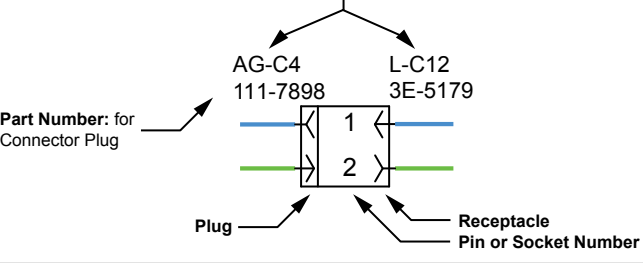
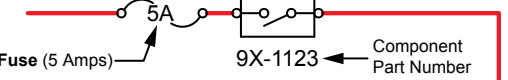
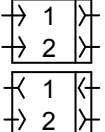
MANUAL CONTROL					
 Push-pull Lever	 Manual Shutoff	 General Manual	 Push Button	 Pedal	 Spring

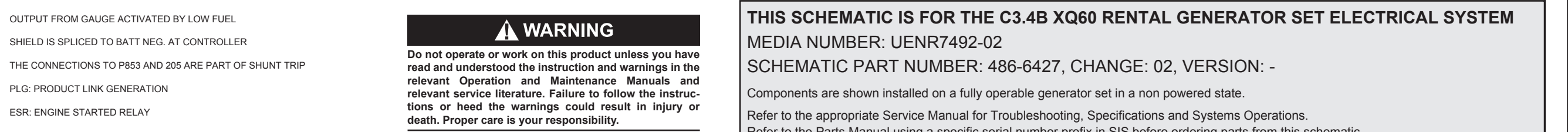
FLUID STORAGE RESERVOIRS			
 Vented	 Pressurized	 Return Above Fluid Level	 Return Below Fluid Level

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

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

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

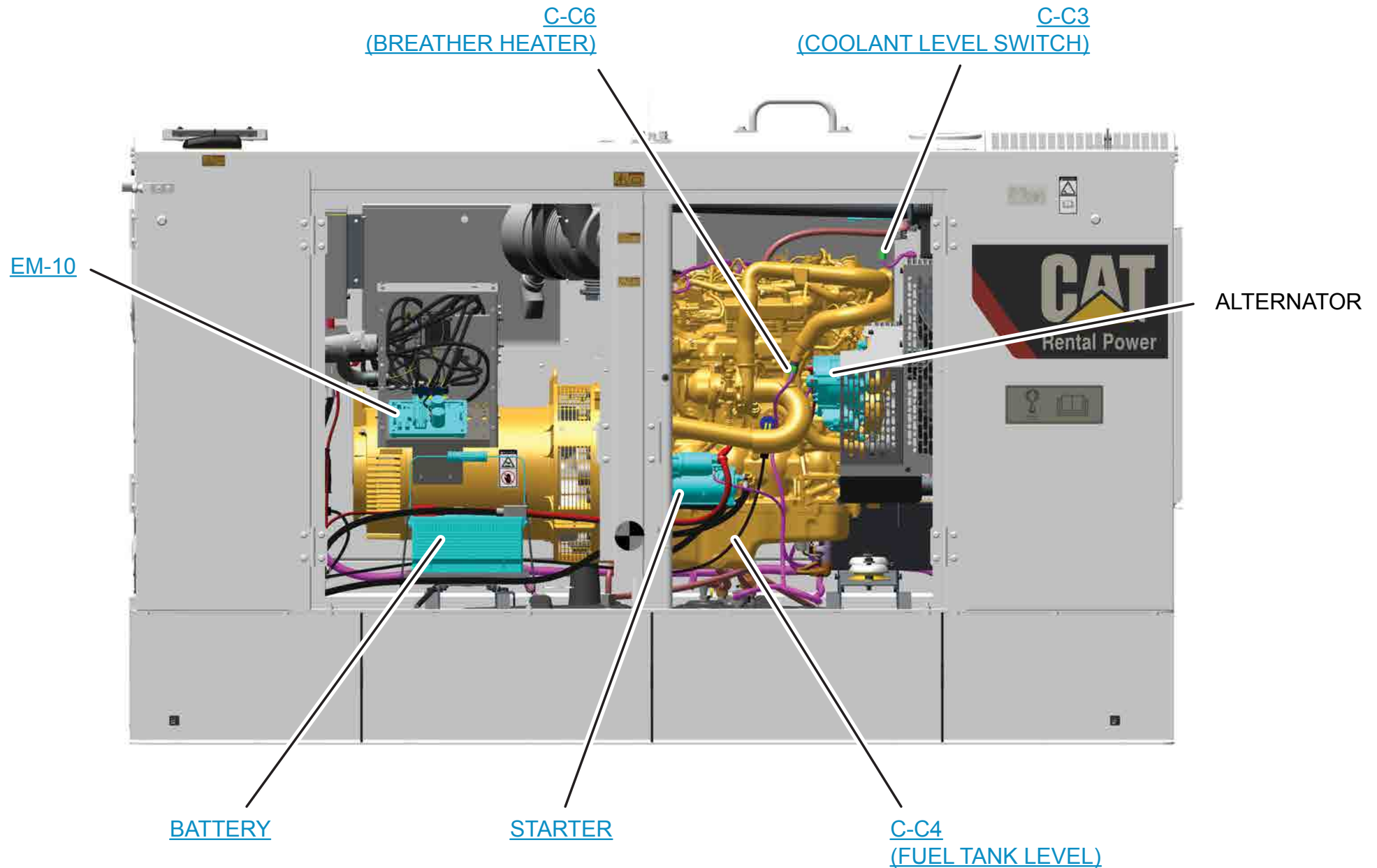
HARNESS AND WIRE SYMBOLS	
Wire, Cable, or Harness Assembly Identification: Includes Harness Identification Letters and Harness Connector Serialization Codes (see sample). 	
Harness Identification Letter(s): (A, B, C, AA, AB, AC, ...) Harness Connector Serialization Code: The "C" stands for "Connector" and the number indicates which connector in the harness (C1, C2, C3, ...) L-C12 3E-5179	
 Harness identification code: This example indicates wire group 325, wire 135 in harness "AG". 325-AG135 PK-14 Wire Gauge Wire Color	
 Deutsch connector: Typical representation of a Deutsch connector. The plug contains all sockets and the receptacle contains all pins. Sure-Seal connector: Typical representation of a Sure-Seal connector. The plug and receptacle contain both pins and sockets.	



ENGINE LEFT SIDE VIEW



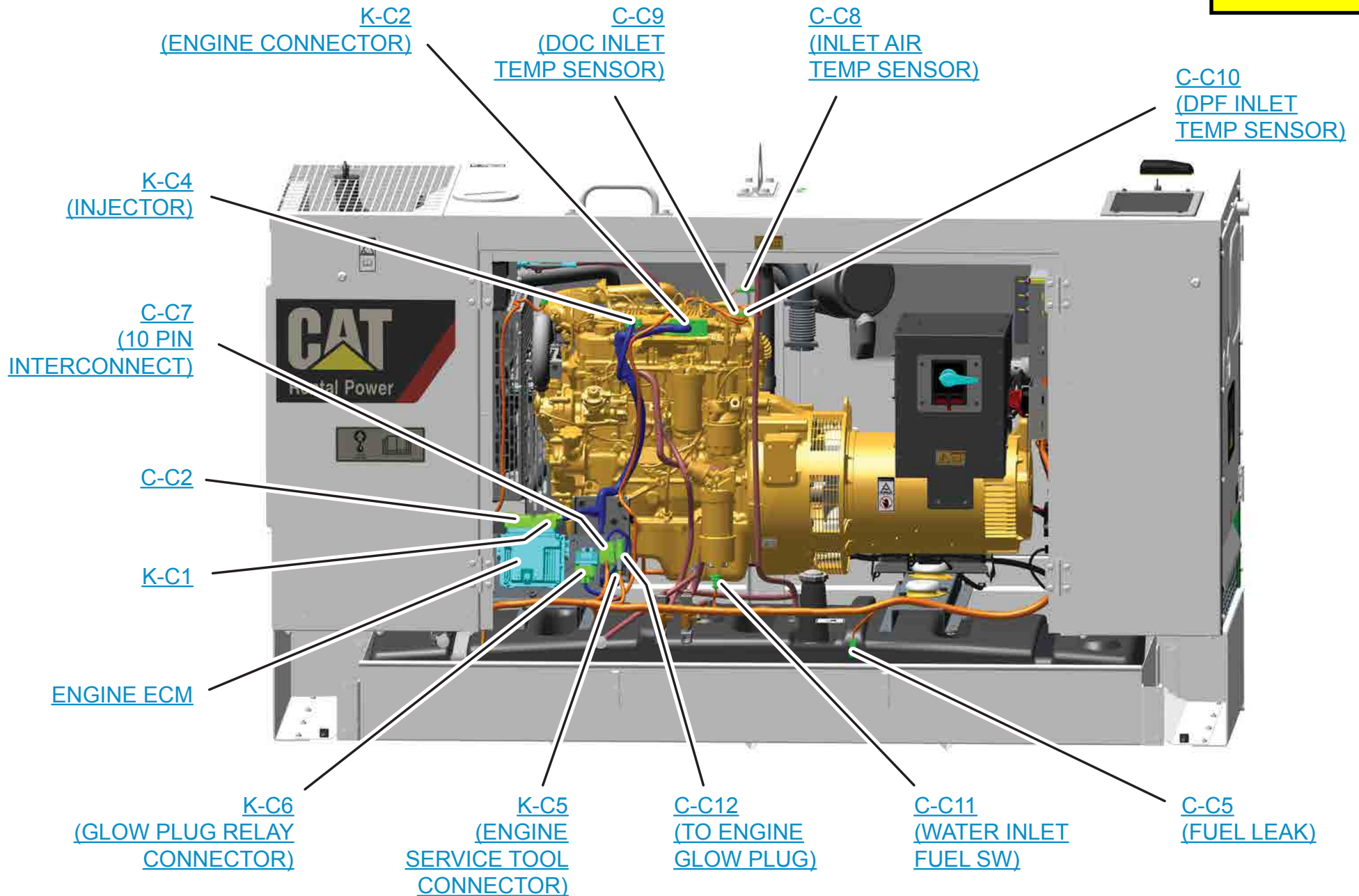
[VIEW ALL CALLOUTS](#)



ENGINE RIGHT SIDE VIEW



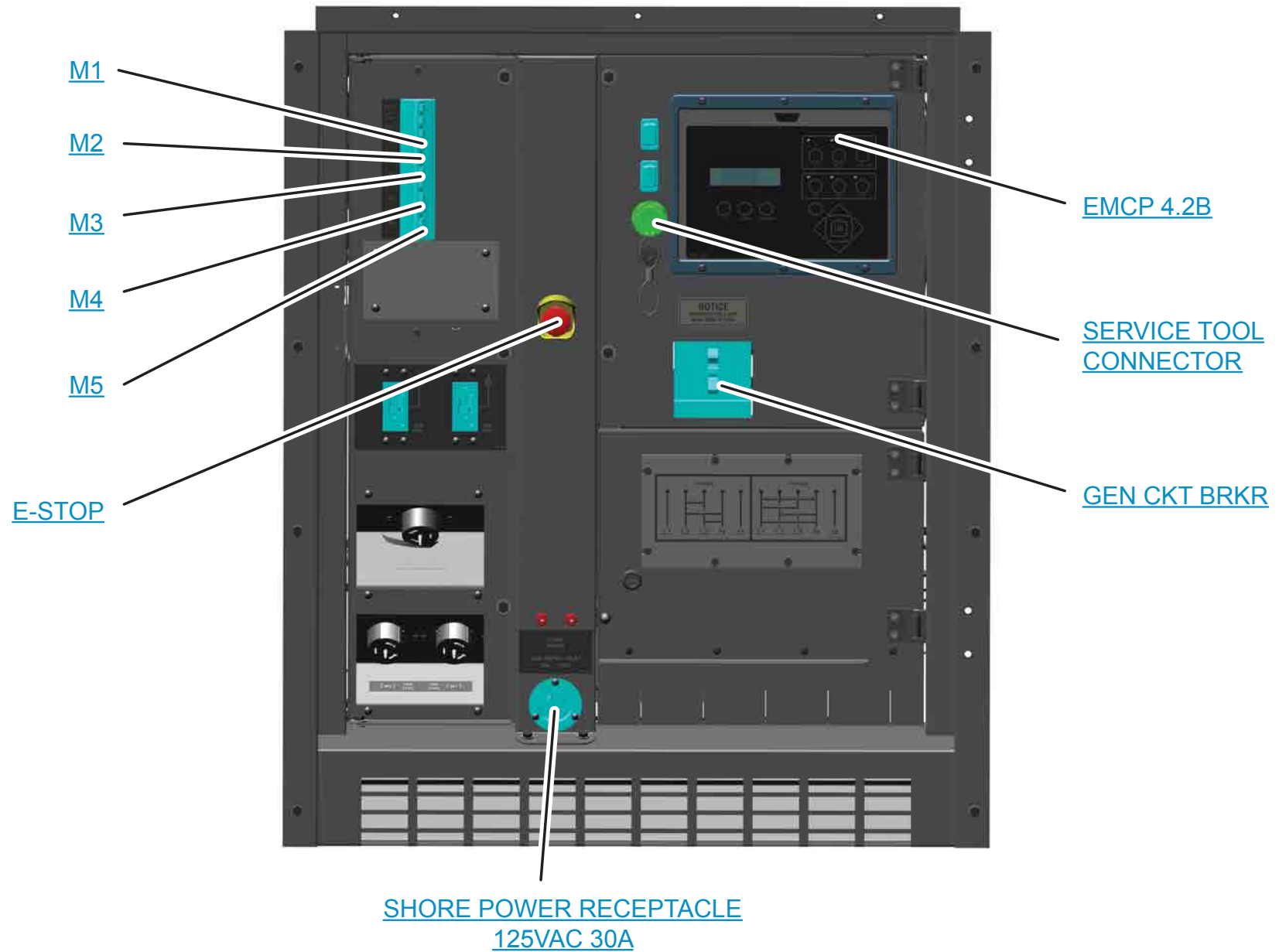
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PANEL FRONT VIEW



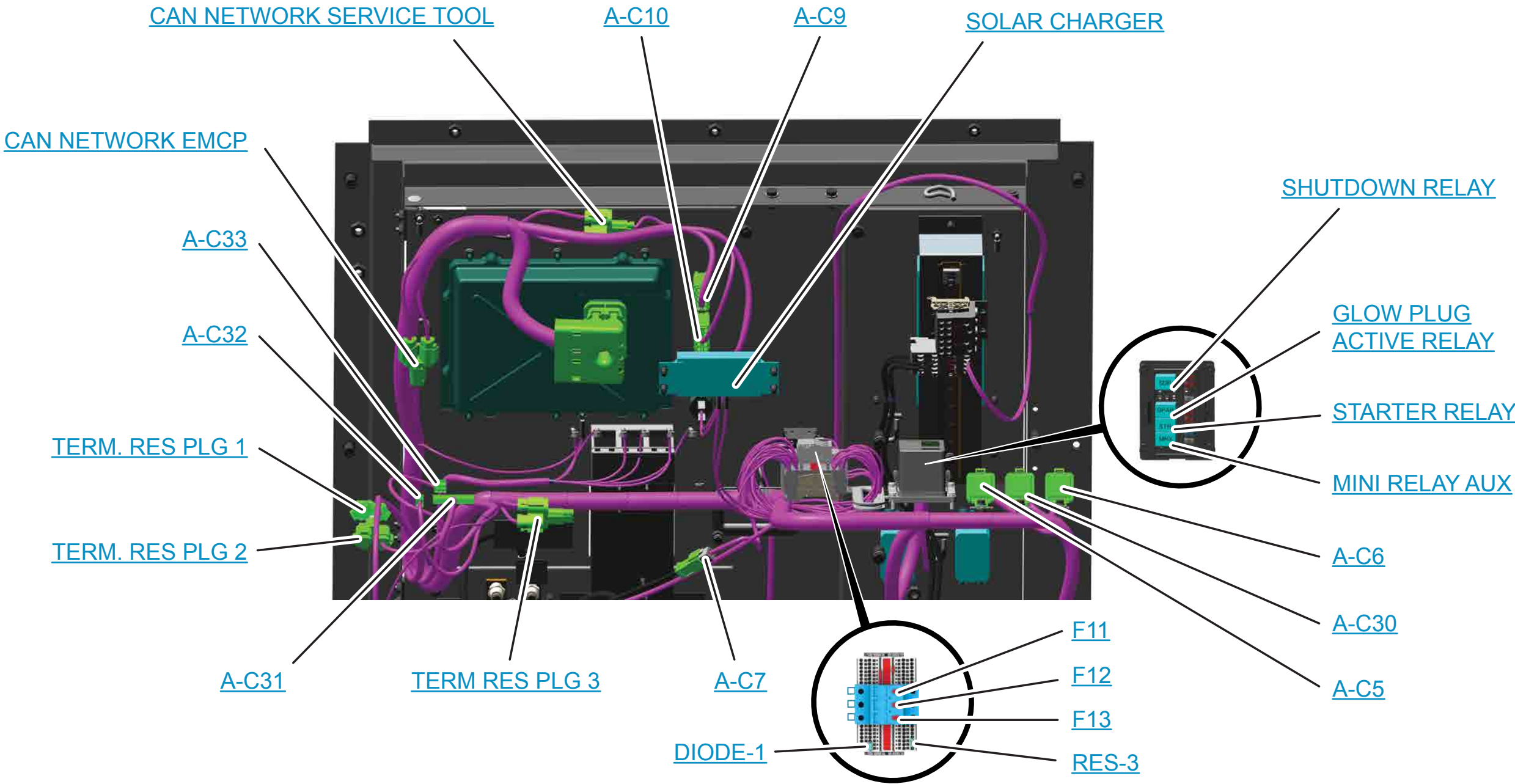
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PANEL INSIDE VIEW



VIEW ALL CALLOUTS



PANEL REAR VIEW



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