

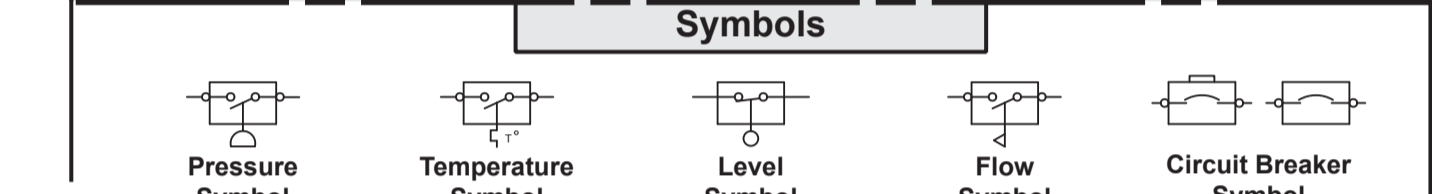
# Schematic

## G3512 Gas Engine Electrical System

E2N1-LP  
E2T1-LP  
E2S1-LP  
E2P1-LP  
E2L1-LP  
E2B1-LP  
E2Y1-LP

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### Harness And Wire Electrical Schematic 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 bonded to the machine.

**Ground (Cable):** 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.

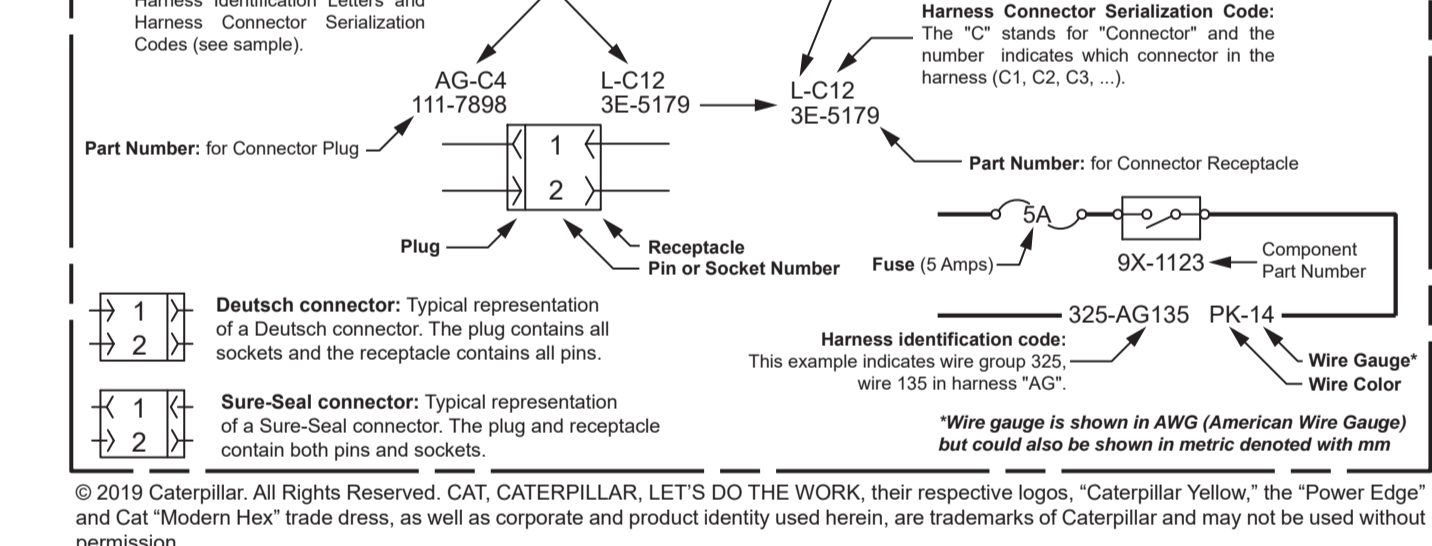
**Sender:** A component that is used with a temperature or pressure gauge. The sender measures the temperature or pressure. Its resistance changes to give an indication to the gauge of the temperature or pressure.

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

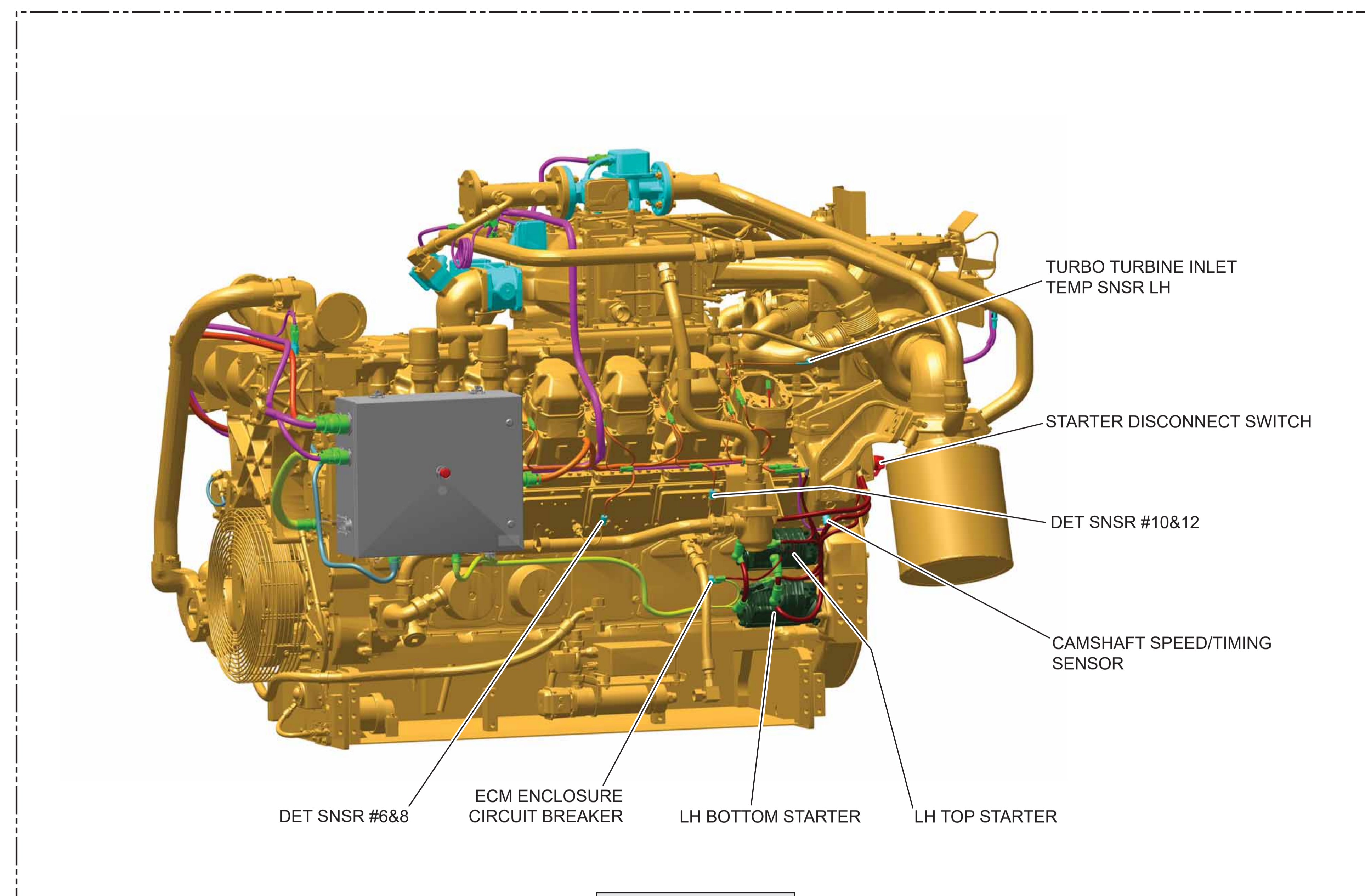
**Solenoid:** A solenoid is an electrical component that is actuated by electricity. It has a coil that makes an electromagnetic when current flows through it. The electromagnetic can open or close a valve or move a piece of metal that can do work.

**Magnetically Latched Solenoid:** A magnetic latch solenoid is an electrical component that is actuated by electricity and latched by a permanent magnet. It has two coils (latch and unlatch) that make electromagnetic when current flows through them. It also has an internal switch that places the latch coil in series with the unlatch coil.

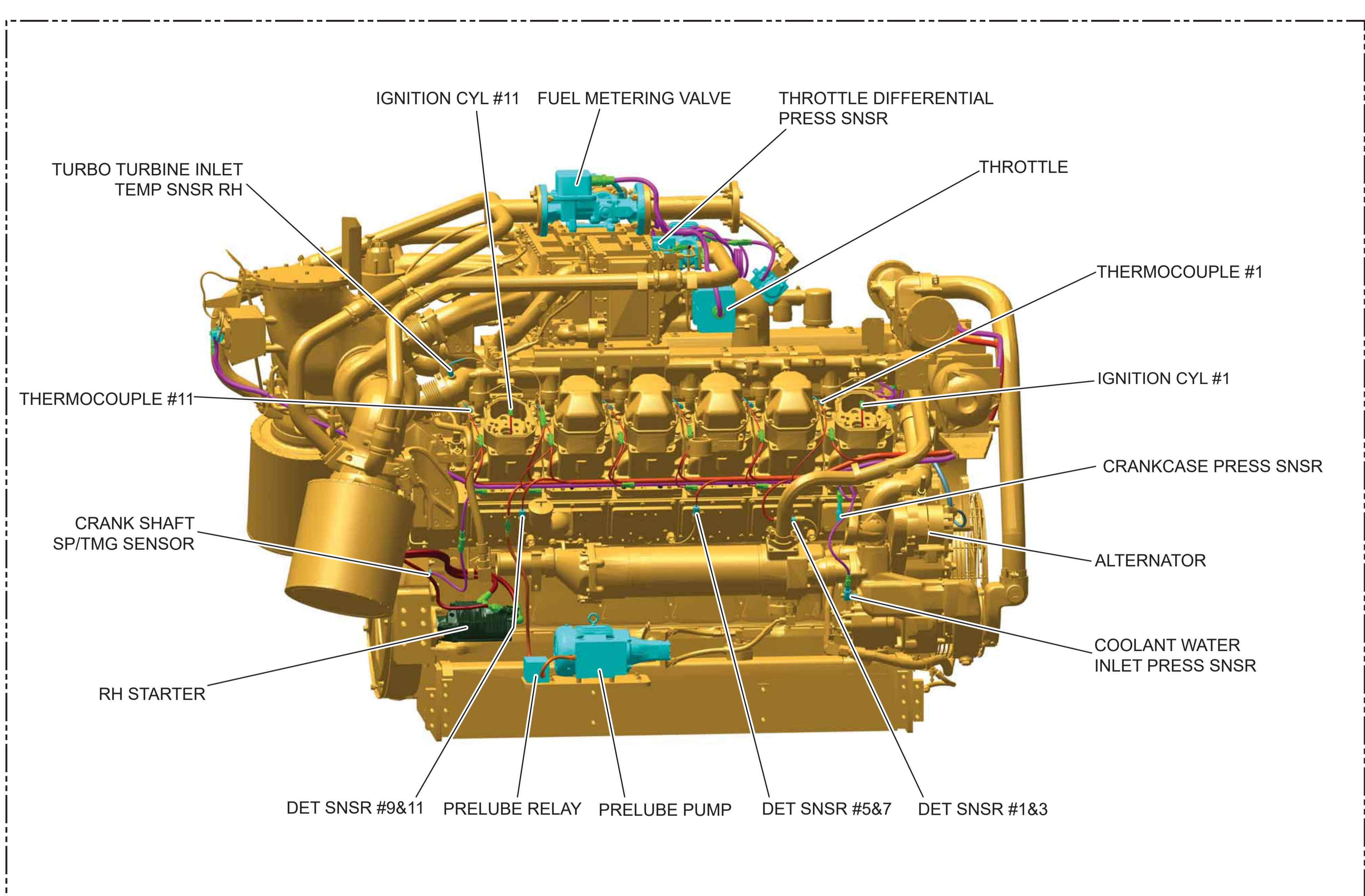
### Harness and Wire Symbols



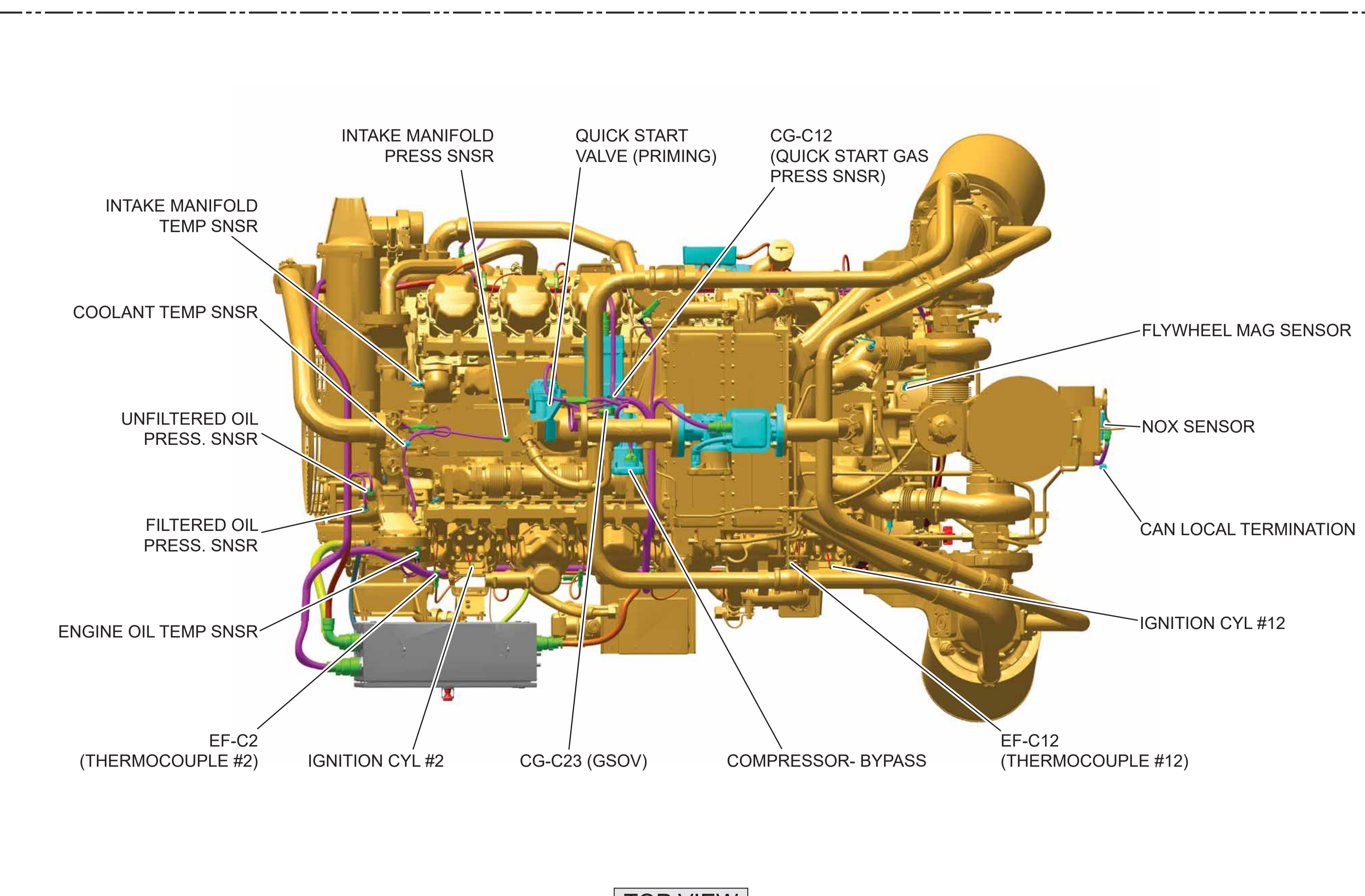
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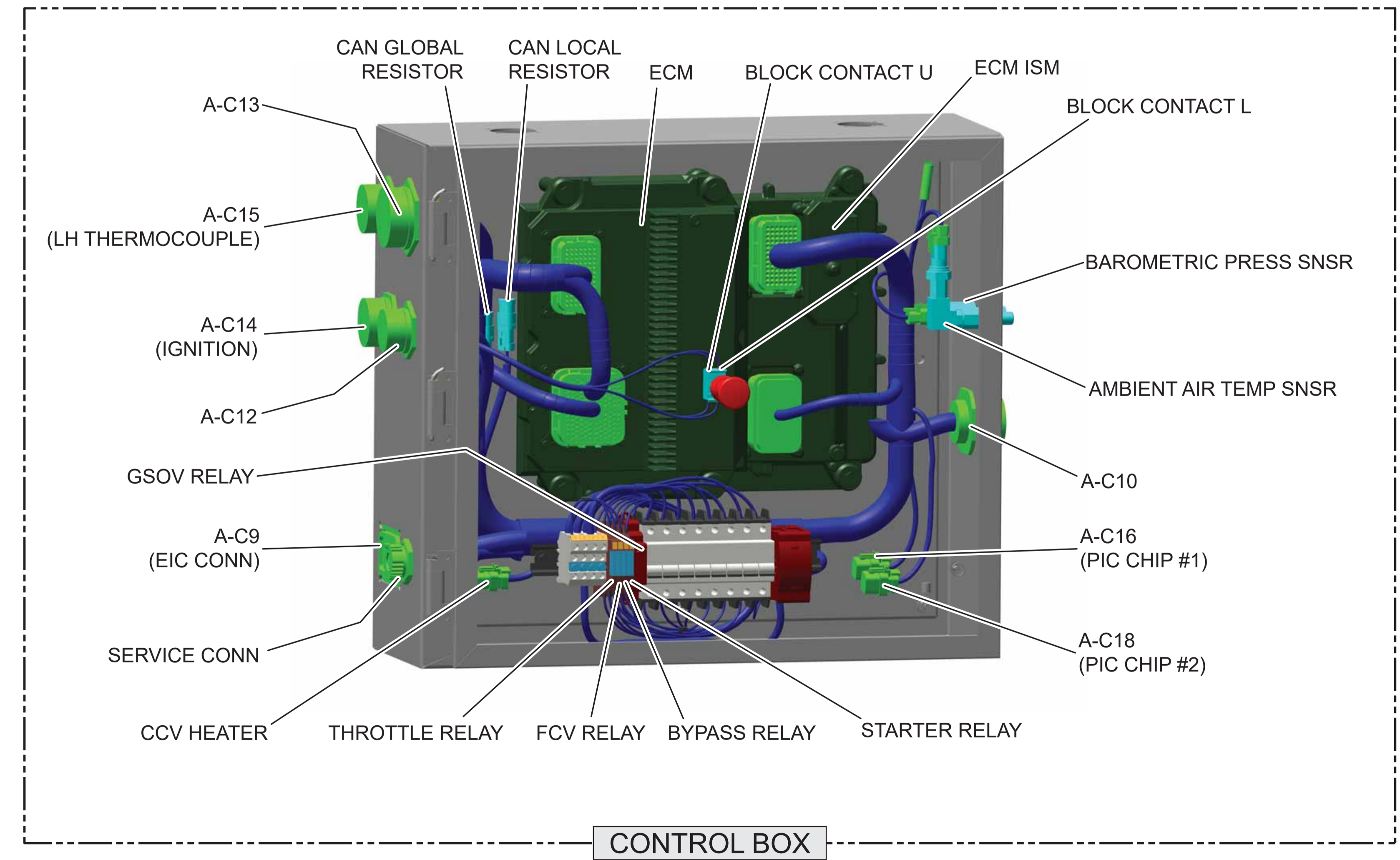
LEFT SIDE VIEW



RIGHT SIDE VIEW



TOP VIEW



CONTROL BOX

