

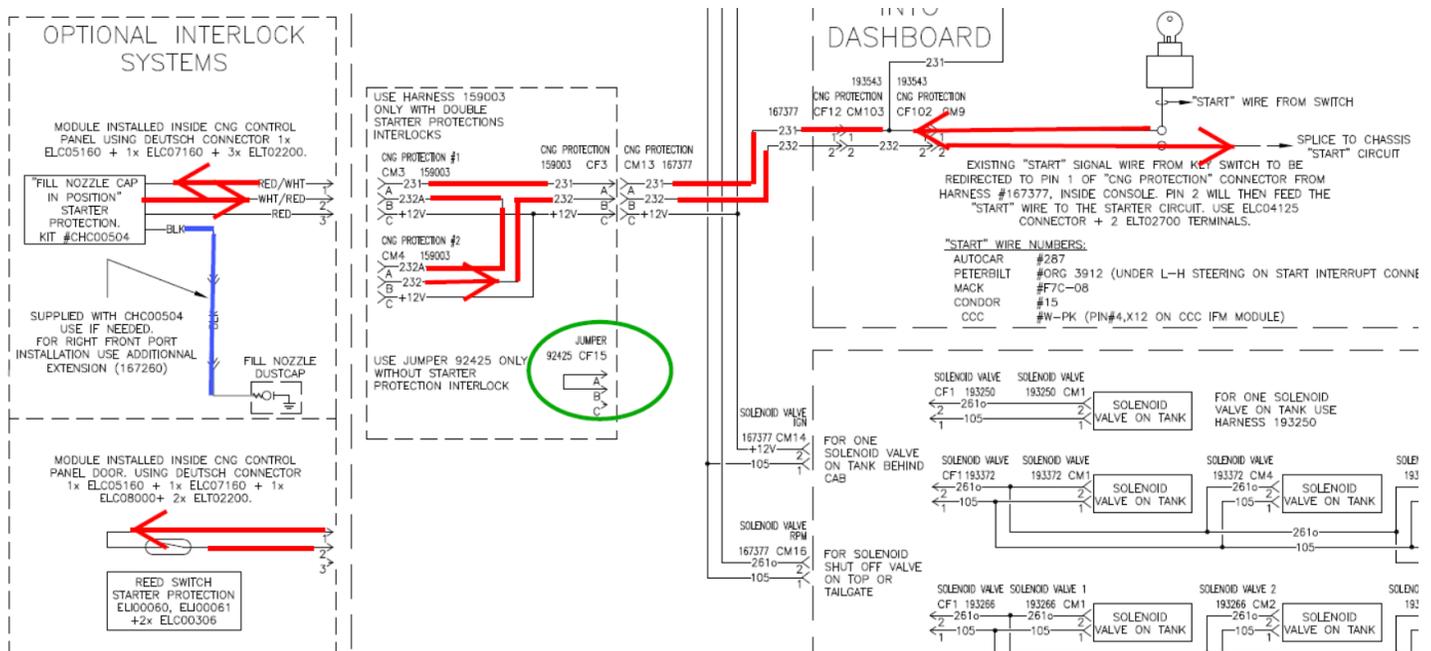
**To:** All Distributors, Regional Sales Manager, and National Sales Managers  
**From:** LabriePlus Service  
**Model:** ALL  
**Subject:** CNG Start sequence - Standard Schematic 167375

This Bulletin is to explain the sequence of events in the starting circuit of Labrie CNG equipped units.

This circuit incorporates a timer relay to allow the CNG regulator to function properly during voltage drop from the actuation of the engine starter.

When the starter switch is turned, a signal travels to CNG module and the timer relay.

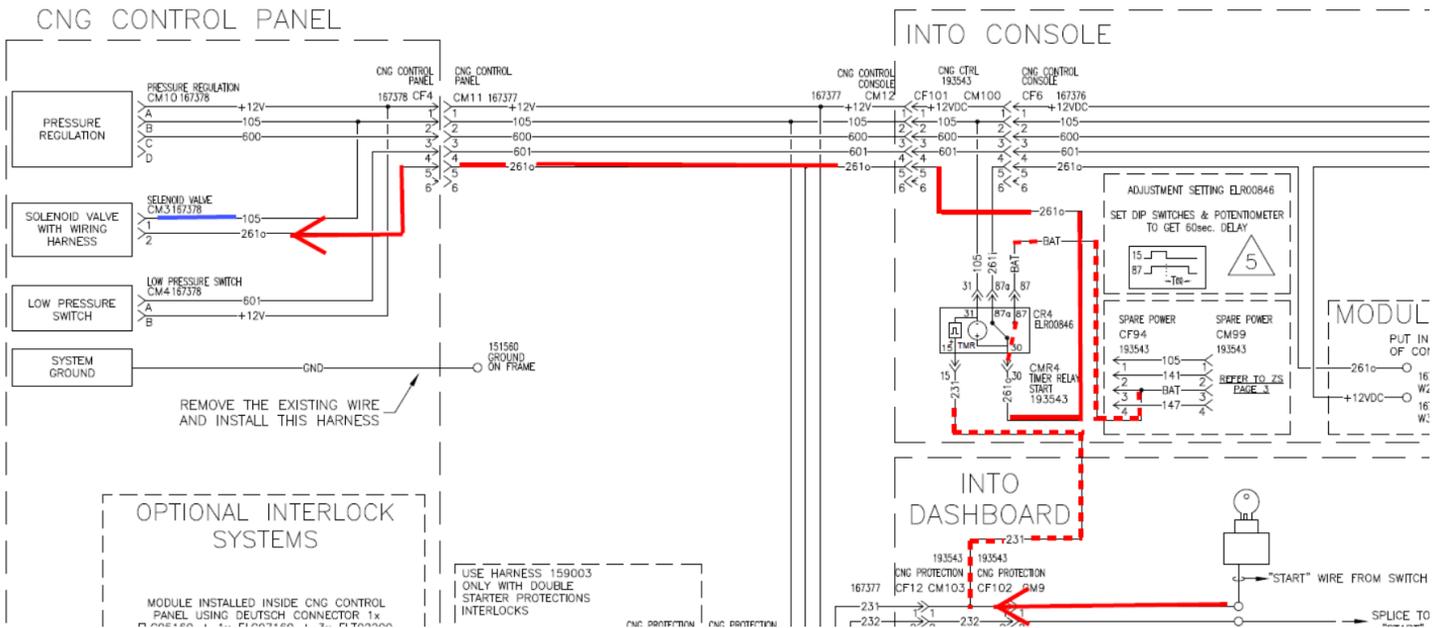
If the rubber fill nozzle dust cap is grounded, the signal wire 231 going into the CNG module will exit the module on wire 232A. The signal then goes to the optional CNG panel door switch. If the door switch is not on the panel a jumper wire at connector CF15 (circled below) will send the signal to the starter on the chassis. *Note: If the unit is trying to start, the safety cap ground circuit and door switch is working. See highlighted schematic below:*



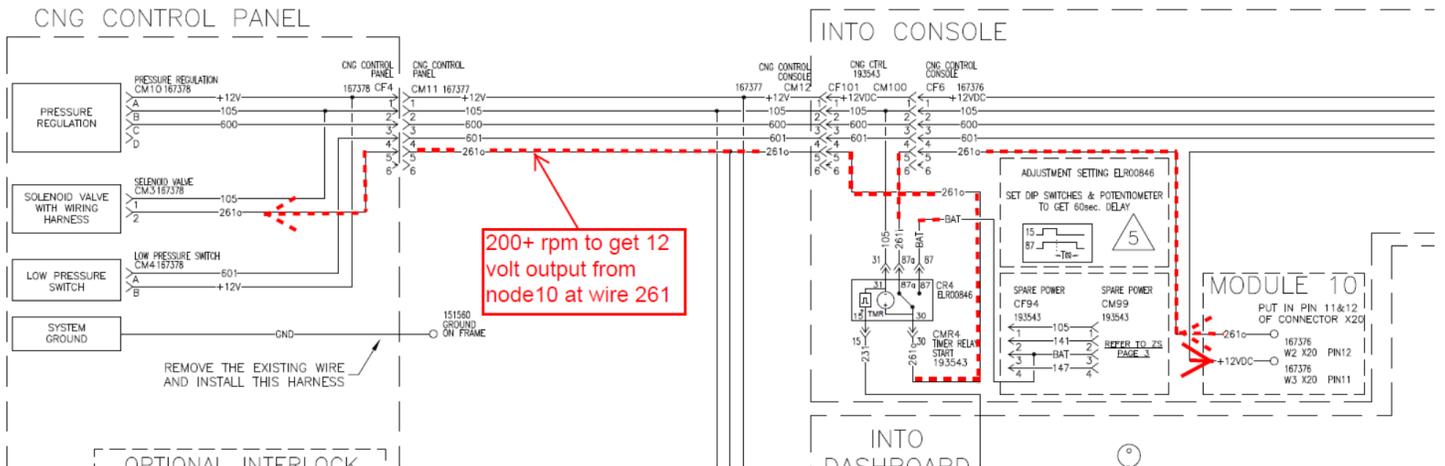
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The second part of the circuit includes the timer relay. When starting a CNG, Labrie initially uses a timer relay to provide battery power to the CNG solenoid. This is done to minimize external noise / interruption that the starter may cause.

When the IGN switch is energized, we also send that signal to the coil on the timer relay wire 231. The timer relay will latch sending battery power to the CNG solenoid. The timer relay will unlatch after 30 to 60 seconds. See highlighted schematic below:



After the timer relay unlatches, the power from node 10 on wire 261 will send power through the unlatched timer relay to the CNG solenoid. *Note: If you have constant power and ground at the CNG regulator the issue may be low fuel, bad solenoid, bad regulator, or possible issues with the CNG filters going to the engine. See highlighted schematic below:*



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