

Parts

Issue Date: April 06, 2010

Global Lit Num: CPGF - P - 00000071 - 2

Revision: 2

Revision Date: February 06, 2012

Title: PCC1301 (0327-1513-02) Control Board Obsolescence

Region Applies to:

- | | | | | |
|--|-----------------------------------|---------------------------------|--|--------------------------------|
| <input checked="" type="checkbox"/> Global | <input type="checkbox"/> Asia Pac | <input type="checkbox"/> Brazil | <input type="checkbox"/> CA & Mexico | <input type="checkbox"/> China |
| <input type="checkbox"/> EMEA | <input type="checkbox"/> India | <input type="checkbox"/> LAO | <input type="checkbox"/> North America | |

Purpose:

The 0327-1513-02 control board has been discontinued and replaced with the 0327-1513-01. The main difference between the boards is the 0327-1513-01 no longer has the K7 starter relay and K8 fuel relay mounted on the board. When replacing a 0327-1513-02 board with a 0327-1513-01 board, two DC relays need to be added to the harness to replace the K7 and K8 relays.

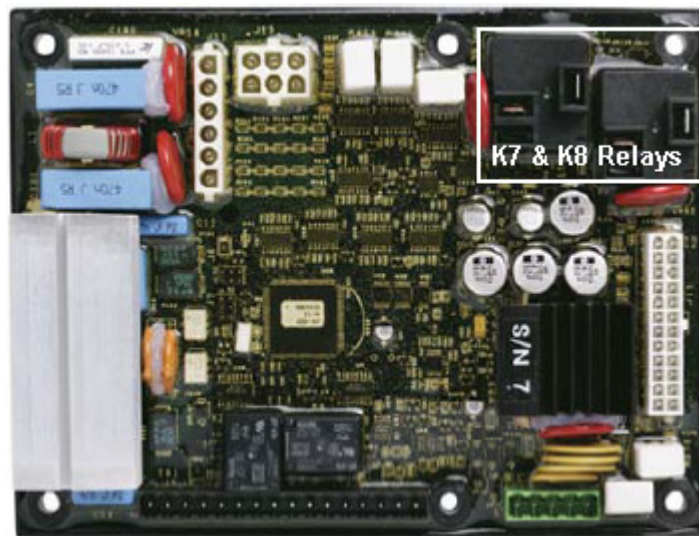


Figure 1. Original design in which relays K7 and K8 were mounted on the PCC 1301

Since no revision has been made to the harness, these relays must be fitted to the harness by removing the corresponding wires from the connector and manually wiring the relays using spade terminals.

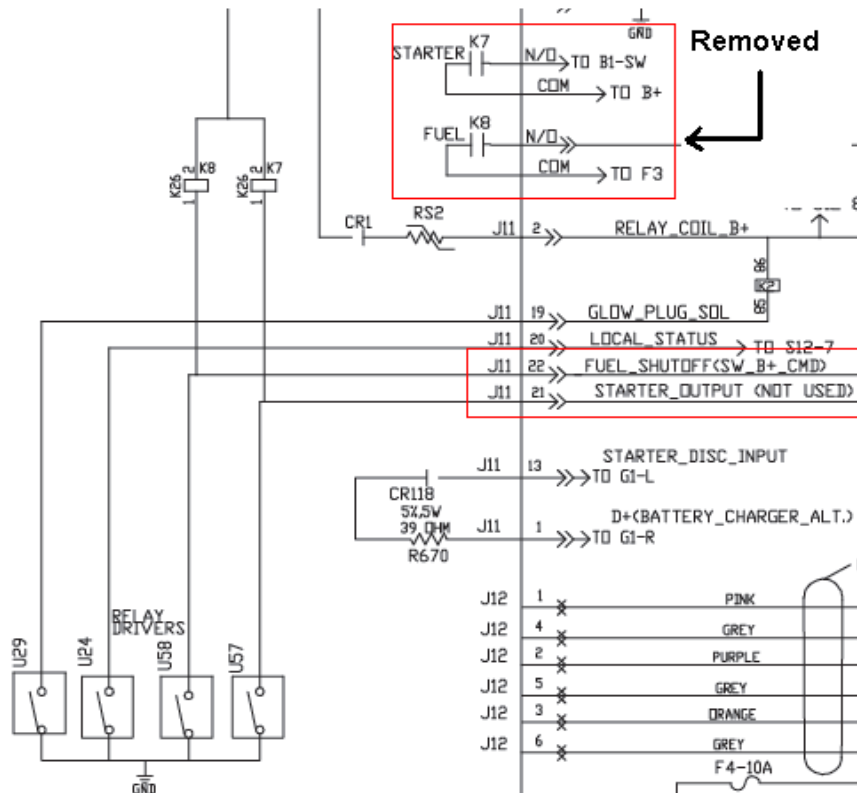


Figure 2. Original schematic reflecting the onboard relays

Starter Relay (K7)

To install the starter relay, the ground-side of the relay coil must be connected to J11-21 and the positive-side connected to Relay Coil B+.

Fuel Shut Off Relay (K8)

To install the Fuel Shutoff Relay, the ground-side of the coil must be connected to J11-22 and the positive-side connected to Relay Coil B+.

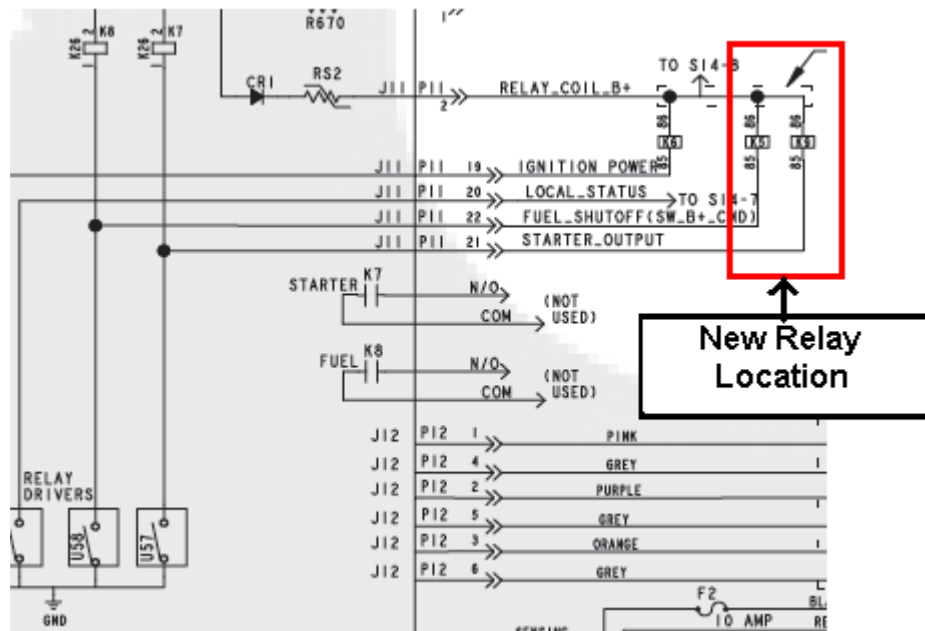


Figure 3. New schematic. Shows new pin-out for fuel shutoff and starter relays

Load control by these relays differs depending on the genset model. Due to the unpredictable performance of smaller relays, it is recommended the 0307-2968-03 (12V) or 0307-2968-04 (24V), 30-Amp relays be used. This should provide sufficient current to the fuel shutoff pump and starter.

The old harness for the PCC1301 is missing a "lead/pin-contact/terminal wire pin" for wire J11-21 in the J11 connector plug. This lead connects the starter relay (K7) to the controller and is required to start the genset. The new harness for PCC1301 has the J11-21 lead in the wire J11-21 of plug connector J11.

For the PCC1301 harness where the J11-21 "lead/pin-contact/terminal wire pin" is missing, the "lead/pin-contact/terminal wire pin" needs to be ordered separately. Then physically insert the lead/pin-contact/terminal wire pin inside the J11-21 connector hole of plug J11 in the harness. Use the Digi-key socket connector/pin-contact/terminal wire pin (P/N: A25684-ND). The Onan Equivalent P/N for the Digi-key socket connector/pin-contact/terminal wire pin is "0323-1200".

The complete recommended parts list for the relay would include:

- (2) Relays - 0307-2968-03 (12V) or 0307-2968-04 (24V)
- (2) Relay Brackets - 0307-2982-02
- (4) Mounting Screws - 0812-0079
- (4) Nuts - 0870-0221
- (1) Lead/pin-contact/terminal wire pin - 0323-1200