

# GENERAC®

POWER SYSTEMS, INC.

## PRODUCT INFORMATION BULLETIN

**DATE:** July 2008

**SUBJECT:** Connect a pre-2008 load center switch to a 5500 series air-cooled generator.  
Connect a 2008 and later load center switch to a 5000 series air-cooled generator.  
Connect a RTSS (Load Shed) switch to a liquid cooled generator.

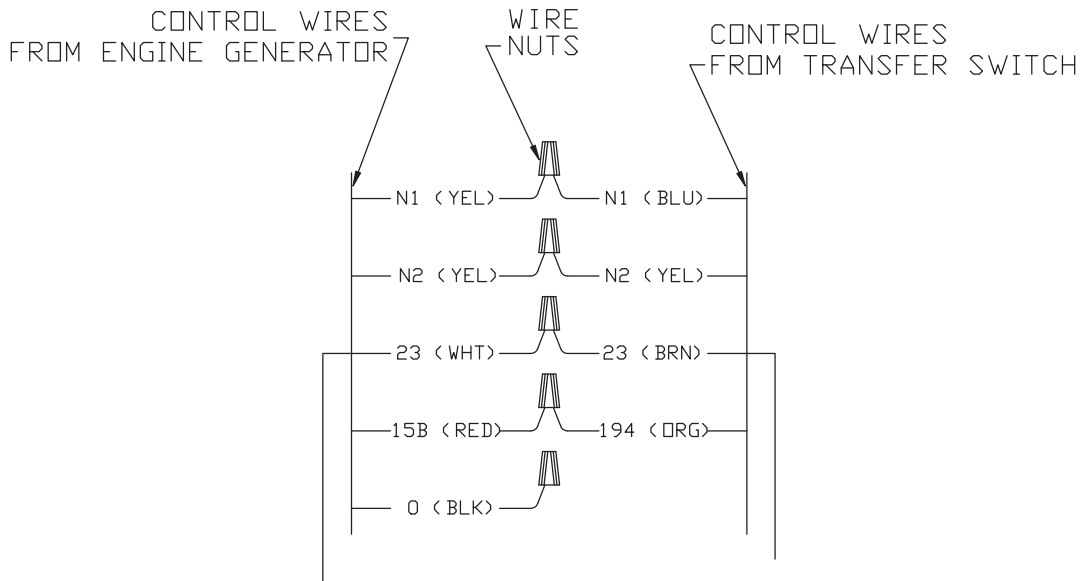
**PURPOSE:** To address issues on how to connect the control wires between the generator and the transfer switch section when wire numbers are not the same.

**PROCEDURE:** Connect a pre-2008 load center switch to a 5500 series air-cooled generator.

- 1. Follow all instructions located in the Installation Manual that was supplied with the unit regarding mounting of the switch, junction box, and generator.

**NOTE:** When installing a standalone 5500 series generator, the battery charger will be located in the generator on the side of the control assembly.

- 2. Inside the Junction box between the generator and the transfer switch there will be 5 wires coming from the generator and 4 wires from the transfer switch.
- 3. Using the following diagram and UL approved wire nuts connect the following wires together. The 0 wire will not be utilized for this setup.

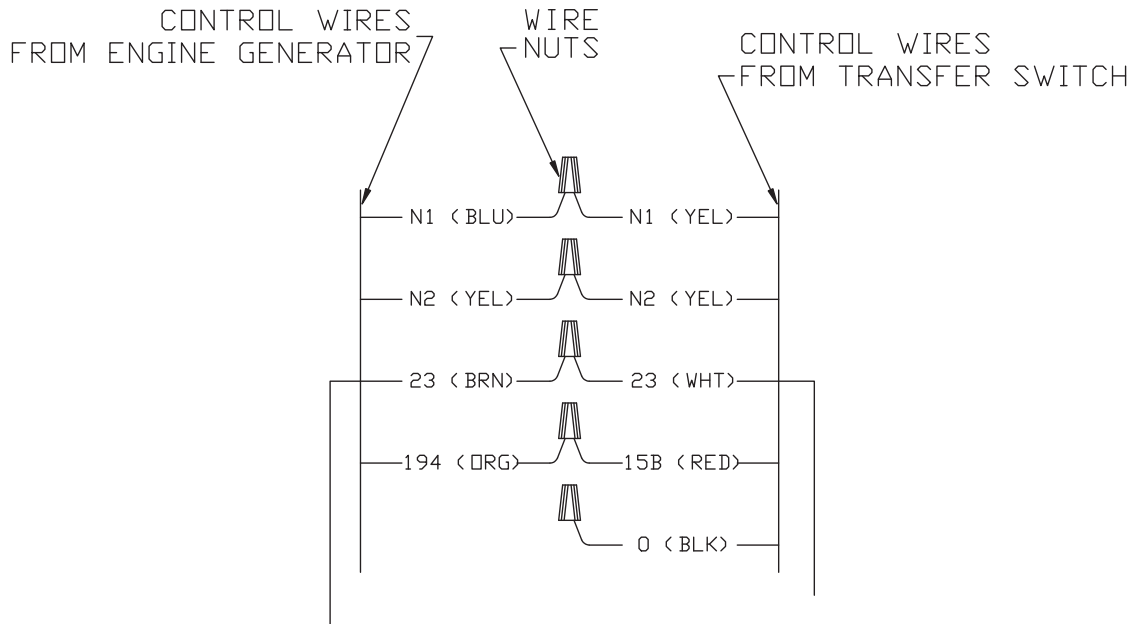


**PROCEDURE:** Connect a 2008 and later load center switch to a 5000 series air-cooled generator.

- 1. Follow all instructions located in the Installation Manual that was supplied with the unit regarding mounting of the switch, junction box, and generator.

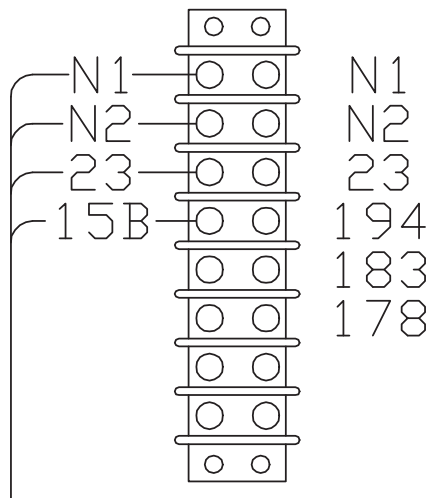
**NOTE:** When installing a standalone 5000 series generator, the battery charger will be located in the generator utilizing the 12VDC trickle charger.

2. Inside the Junction box between the generator and the transfer switch there will be 4 wires coming from the generator and 5 wires from the transfer switch.
  3. Using the following diagram and UL approved wire nuts connect the following wires together. The 0 wire will not be utilized for this setup.
- NOTE:** Remove the battery charger from the transfer switch; it will not be utilized in the operation of the generator.



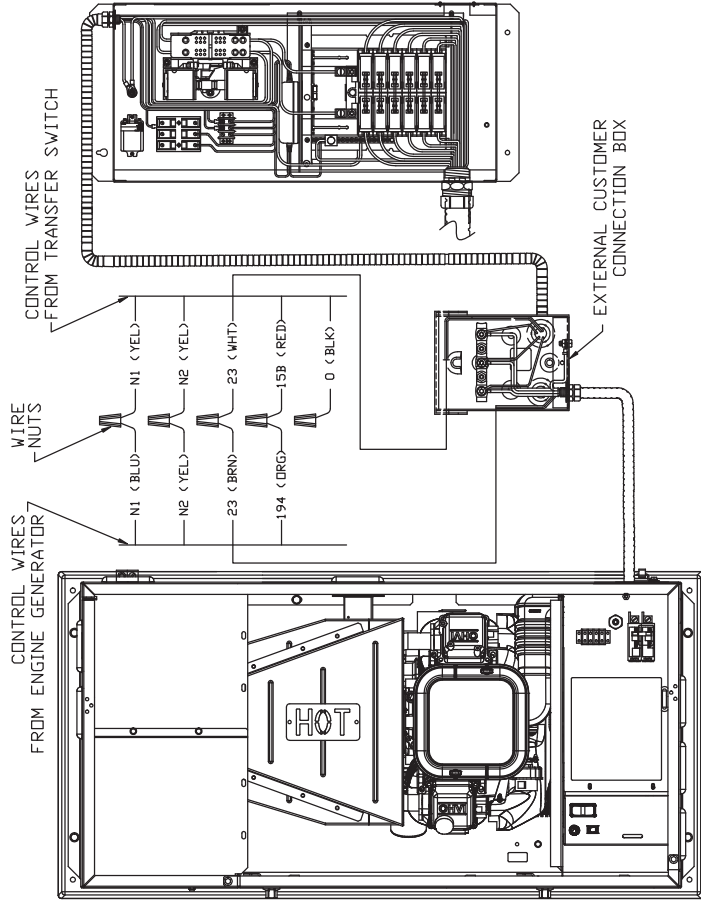
**PROCEDURE:** Connect a RTSS (Load Shed) switch to a liquid cooled generator.

1. Follow all instructions located in the Installation Manual that was supplied with the unit regarding mounting of the switch and generator.  
 Note: When installing a liquid cooled generator, the battery charger will be located in the generator utilizing the 12VDC charger.
  2. Inside the Customer Connection box between of the generator there will be a terminal strip. The N1, N2, 23, and 194 terminal connections are the only ones that will be utilized. Coming from the transfer switch there will be N1, N2, 15B, and 23. The 15B wire will become 194 after the terminal strip.
- NOTE:** The 0 wire does not need to be run between the generator and the transfer switch. It is not utilized in this installation.
3. Using the following diagram connect the wires at the terminal strip as follows.
- NOTE:** Remove the battery charger from the transfer switch; it will not be utilized in the operation of the generator.



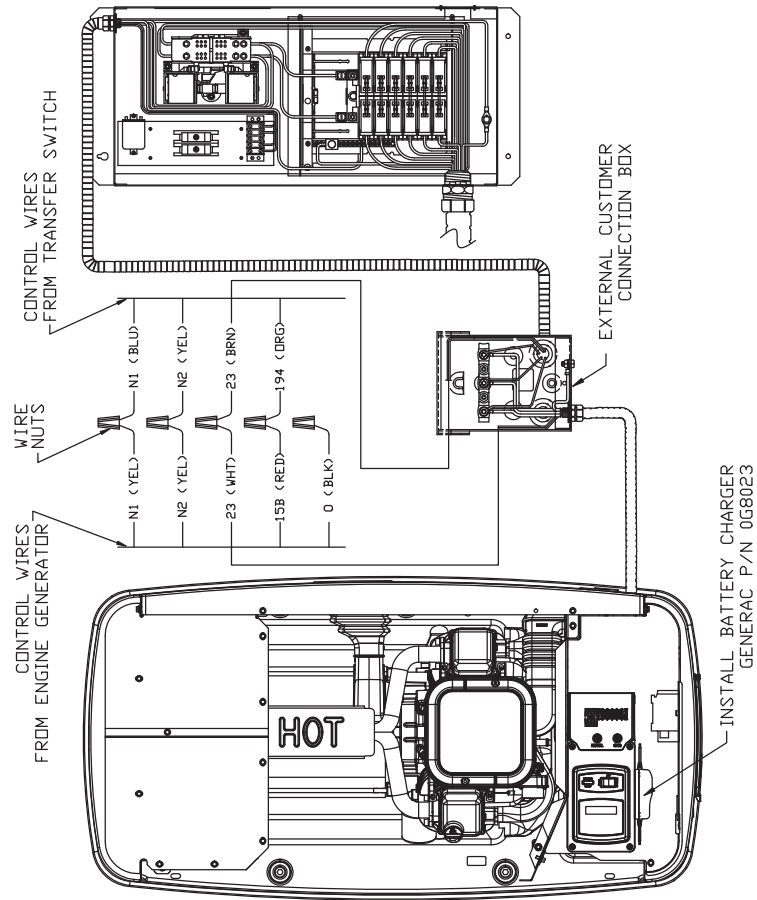
"08" & LATER  
LOAD CENTER  
TRANSFER SWITCH

PRE "08" HSB  
AIR-COOLED GENERATORS  
SINGLE & V-TWIN ENGINES

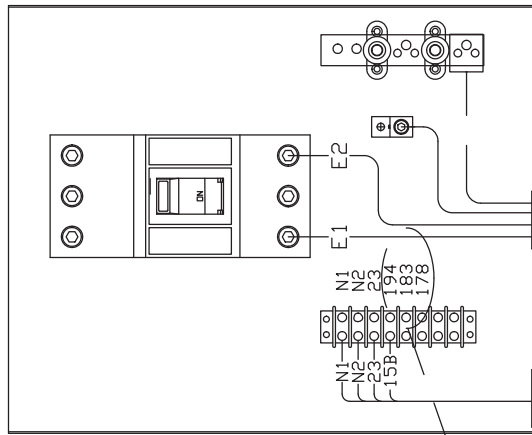


PRE "08"  
LOAD CENTER  
TRANSFER SWITCH

"08" & LATER HSB  
AIR-COOLED GENERATORS  
SINGLE & V-TWIN ENGINES



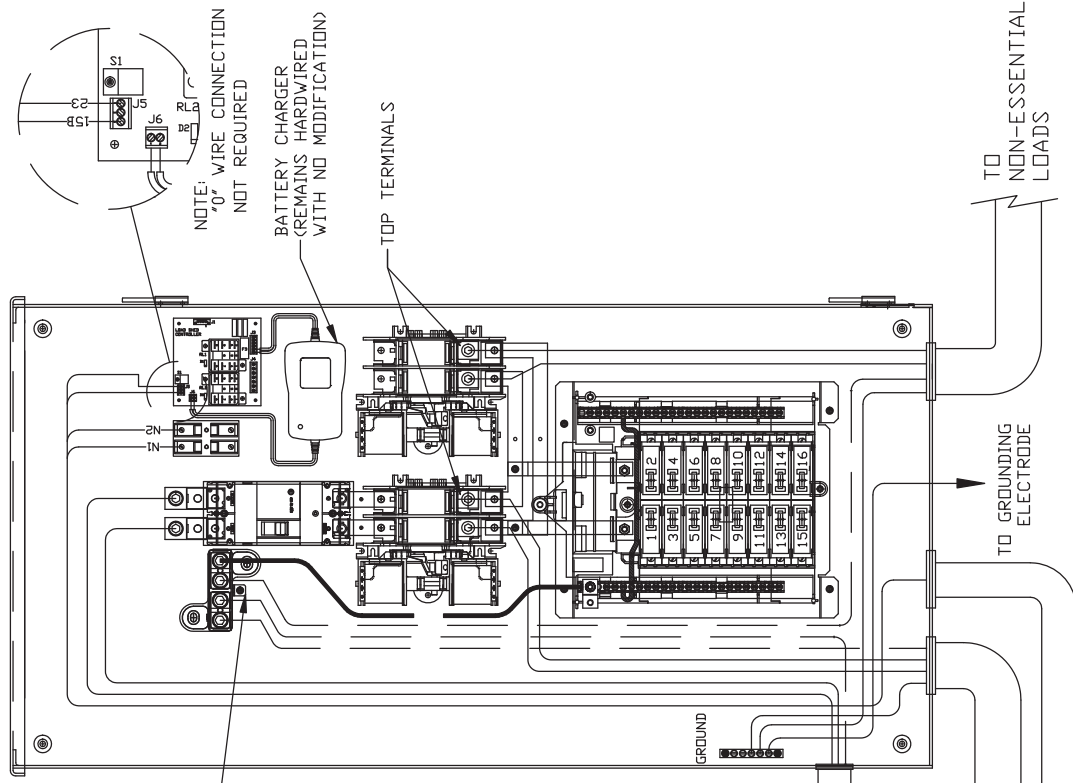
QT SERIES ENGINE  
GENERATOR CONNECTION  
PANEL



NOTE:  
15B CONNECTS TO  
TERMINAL 194 AND  
178 AND 183  
CONNECTIONS ARE  
NOT USED IN THIS  
APPLICATION

NOTE:  
POWER LEADS AND TRANSFER  
SWITCH LEADS TO BE RUN IN TWO  
DIFFERENT CONDUITS.

EXCEPTIONS:  
IF THE INSULATION RATING ON  
ALL WIRING IS RATED FOR 600V AND  
THE LENGTH OF THE CONDUIT IS 30ft+  
OR LESS IT IS ACCEPTABLE TO INCLUDE  
GENERATOR CONTROL & POWER WIRING  
IN ONE CONDUIT



A BONDING JUMPER IS PROVIDED  
BETWEEN THE NEUTRAL LUG  
AND ENCLOSURE AT THIS LOCATION  
(FACTORY INSTALLED)

UTILITY  
METER  
SOCKET

NOTE:  
"0" WIRE CONNECTION  
NOT REQUIRED  
BATTERY CHARGER  
(REMAINS HARDWIRED  
WITH NO MODIFICATION)

TOP TERMINALS

TO  
NON-ESSENTIAL  
LOADS

TO GROUNDING  
ELECTRODE