

Installation and Operating Instructions

30A SWITCHED NEUTRAL ACCESSORY KIT MODEL 6297

Warning: This Switched Neutral Kit should be installed by a professional electrician familiar with electrical wiring and codes, and experienced in working with generator transfer switches. Generac accepts no responsibility for accidents, damages or personal injury caused by incorrect installation. The Switched Neutral Kit can upgrade most manual transfer switches from non-Switched neutral to Switched neutral, as required by certain municipalities, electrical inspectors and generators.

Caution: This Switched Neutral Kit can be used in single phase manual transfer switches up to 30 Amps 125/250V. Check the transfer switch rating label BEFORE beginning installation to be sure NOT to exceed the rating of the transfer switch. Incorrect or inappropriate installations will void the warranty.

For use with Neutral-Bonded Generators. This Switched Neutral Kit is designed to enable manual transfer switches up to 30 Amps @ 125/250V to isolate the utility and generator neutrals. Product features include:

- Preserve the integrity of your generator ground fault protection system by isolating the utility and generator neutrals.
- Generator and Utility neutrals are interlocked; neutral pole is simultaneously switched and connected to only one source at any time.
- Prewired for fast, easy connection to the transfer switch and load center.
- Retrofit most any make or model of manual transfer switch, load center or isolation device.
- All components are UL Listed and/or Recognized.

What is Included in this carton:

- Prewired Contactor, UL listed
- Wire Harness
- Wire Connectors (3)
- Insulated terminal block, 8 position
- Installation manual and Warranty Registration Card (this document)

Tools Needed for Installation:

- Screwdrivers, straight blade and Phillips
- Wire cutter/stripper
- Safety eye goggles

STEP 1: PLANNING YOUR INSTALLATION:

Look on the product label on your transfer switch to determine which model you have, and that it is rated for up to 30 amps. You will need this information throughout this procedure.

STEP 2: INSTALLATION PROCEDURE:

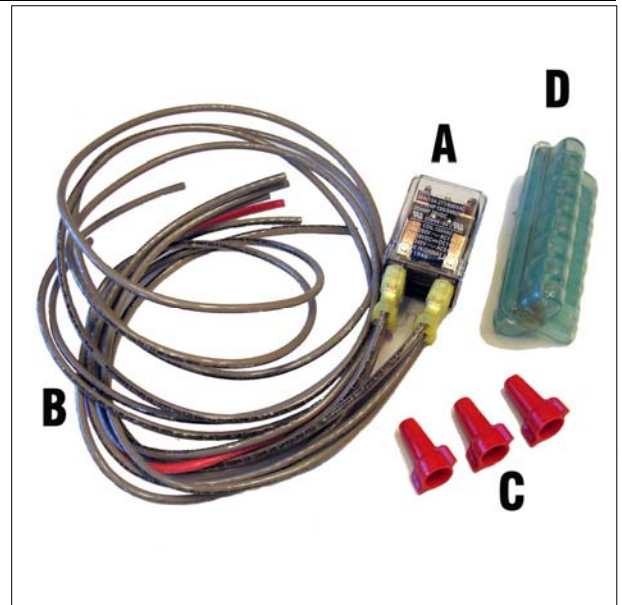
CAUTION PLEASE READ THIS MANUAL **BEFORE** ATTEMPTING TO INSTALL, OPERATE OR MAINTAIN THIS EQUIPMENT. HAZARDOUS VOLTAGES ARE PRESENT INSIDE TRANSFER SWITCH and LOAD CENTER ENCLOSURE THAT CAN CAUSE DEATH OR SEVERE PERSONAL INJURY. FOLLOW PROPER INSTALLATION, OPERATION AND MAINTENANCE PROCEDURES TO AVOID HAZARDOUS VOLTAGES. **TURN OFF THE MAIN CIRCUIT BREAKER IN THE LOAD CENTER BEFORE STARTING INSTALLATION.**

A. Install contactor (Item A) into manual transfer switch:

- Referring to Figure 1, determine the appropriate location to install the contactor inside the manual transfer switch enclosure, based upon the manual transfer switch model determined in STEP 1. Clean the location from all dirt and grease. Remove the double-stick tape backing on the contactor and press the contactor tight to the enclosure. Make sure that the wires attached to the contactor are accessible for routing and termination.



B. Terminate NC1 and NC2 in load center (electrical panel):

- Locate the 67" gray wires marked NC1 and NC2 connected to the contactor. For 6294 manual transfer switch, route, insert and feed both



⚠ DANGER

Using a generator indoors CAN KILL YOU IN MINUTES.
Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.

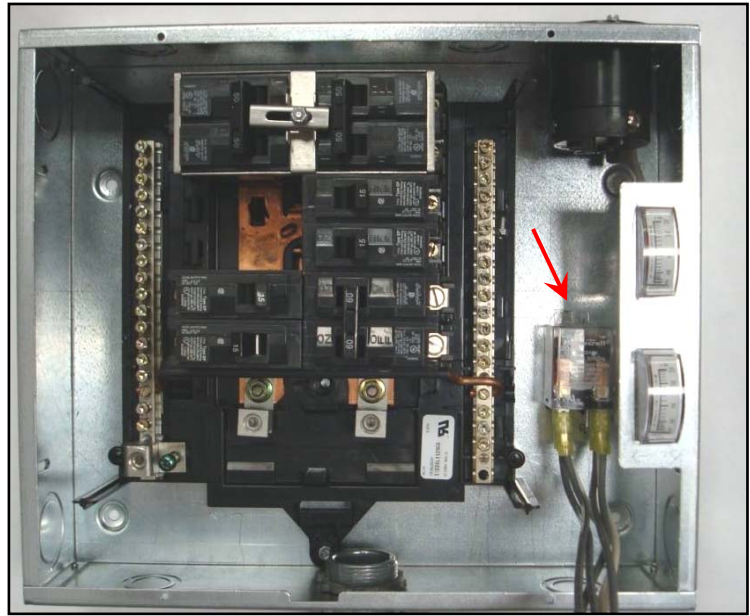
 NEVER use inside a home or garage, EVEN IF doors and windows are open.	 Only use OUTSIDE and far away from windows, doors, and vents.
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wires into and through the conduit located at the bottom of the transfer switch. For 6295, after the wire harness conduit has been attached to the transfer switch, insert and feed both wires along with the wire harness into and through the conduit located at the bottom of the transfer switch. For all models, terminate wires NC1 and NC2 to the load center neutral bus bar. See Figure 2 Wiring Diagrams for all wire routing and connections.

FIGURE 1: Models 6294-6376-6408



Models 6295-6378-6379-6380-6381



B. Terminate COM1 and COM2 wires:

1. For 6294 and 6295 models: Locate and strip 5/8" insulation from the 2 -15" gray wires labeled COM1 and COM2 and terminate both to the manual transfer switch neutral buss bar.

C. Terminate NO1, NO2 and RET wires:

1. Locate and strip 5/8" insulation from the 3-15" gray wires marked NO1, NO2 and RET.
2. For manual transfer switches without Flanged Inlets, connect these 3 wires with the generator neutral (white) wire coming from the Power Inlet Box.

D. Install insulated terminal block (Item D) in load center:

1. Identify and disconnect from the load center neutral buss bar all branch circuit neutral (white) wires for the circuits that have been connected to the transfer switch.
2. Locate the provided insulated terminal block close to the load center neutral buss bar and reconnect the branch circuit neutral (white) wires to the insulated terminal block removed in Step D1 above.
3. Connect the neutral (white) wire in the wiring harness coming from the transfer switch to the insulated terminal block

E. Terminate GEN wire:

1. Locate and strip 5/8" insulation from the 15" red wire marked GEN.
2. For 6294 and 6295 models, terminate the red GEN wire along with the generator input wire into one of the GEN circuit breaker lugs in the transfer switch. Torque to recommended specification.
3. Installation is now complete.

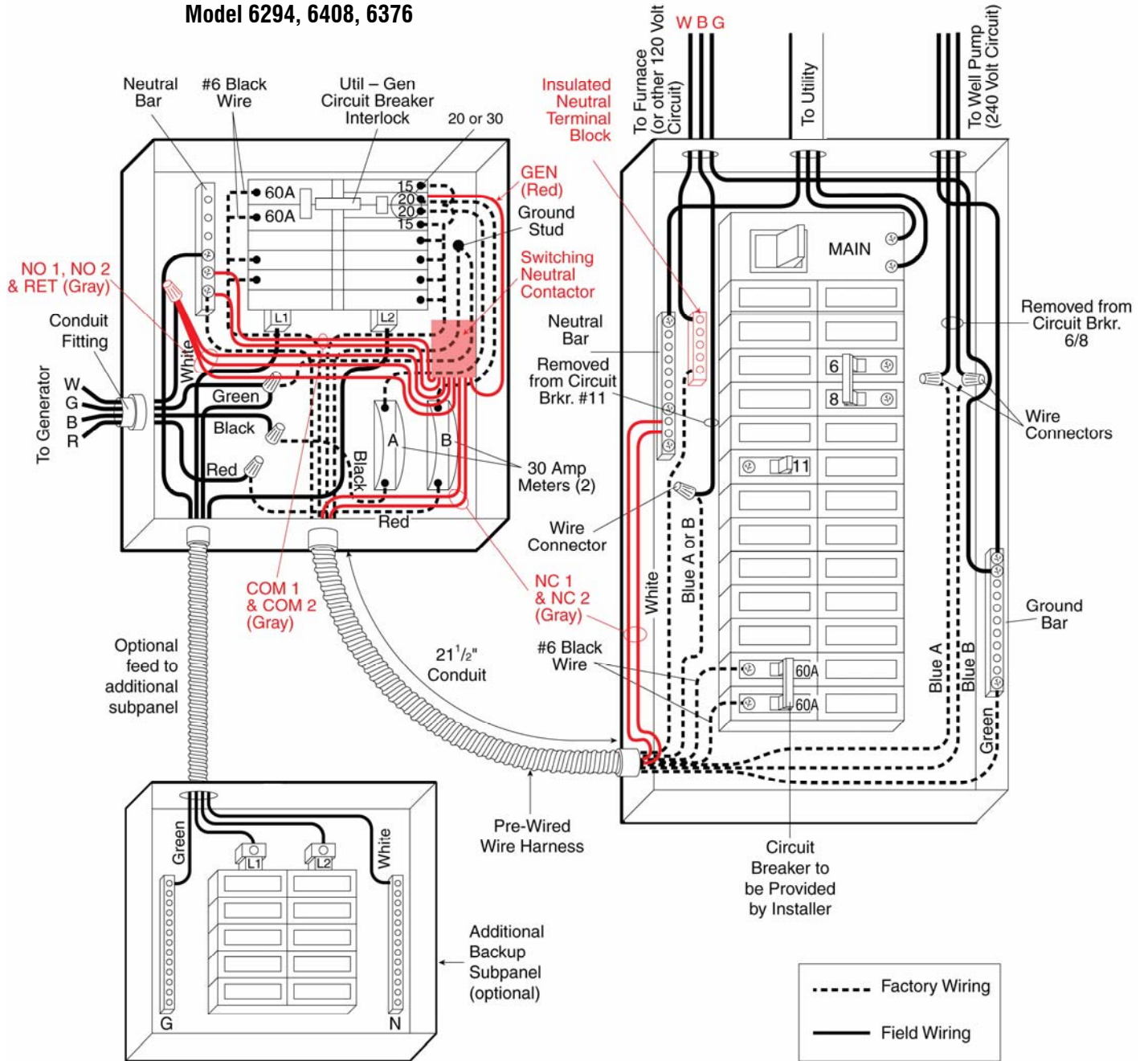
STEP 3: USING YOUR TRANSFER SWITCH WITH SWITCHED NEUTRAL KIT:

The operation of the Switched Neutral Kit inside your transfer switch requires no operator assistance. Just follow the instructions on the transfer switch. When the transfer switch is in Utility mode, the utility neutral is connected to the circuits located in the transfer switch. When generator power is connected to the transfer switch, the Switched Neutral Kit transfers the transfer switch circuits from utility to generator neutral. When generator power is disconnected, the Switched Neutral Kit transfers back to utility neutral.

Figure 2 - WIRING DIAGRAMS:

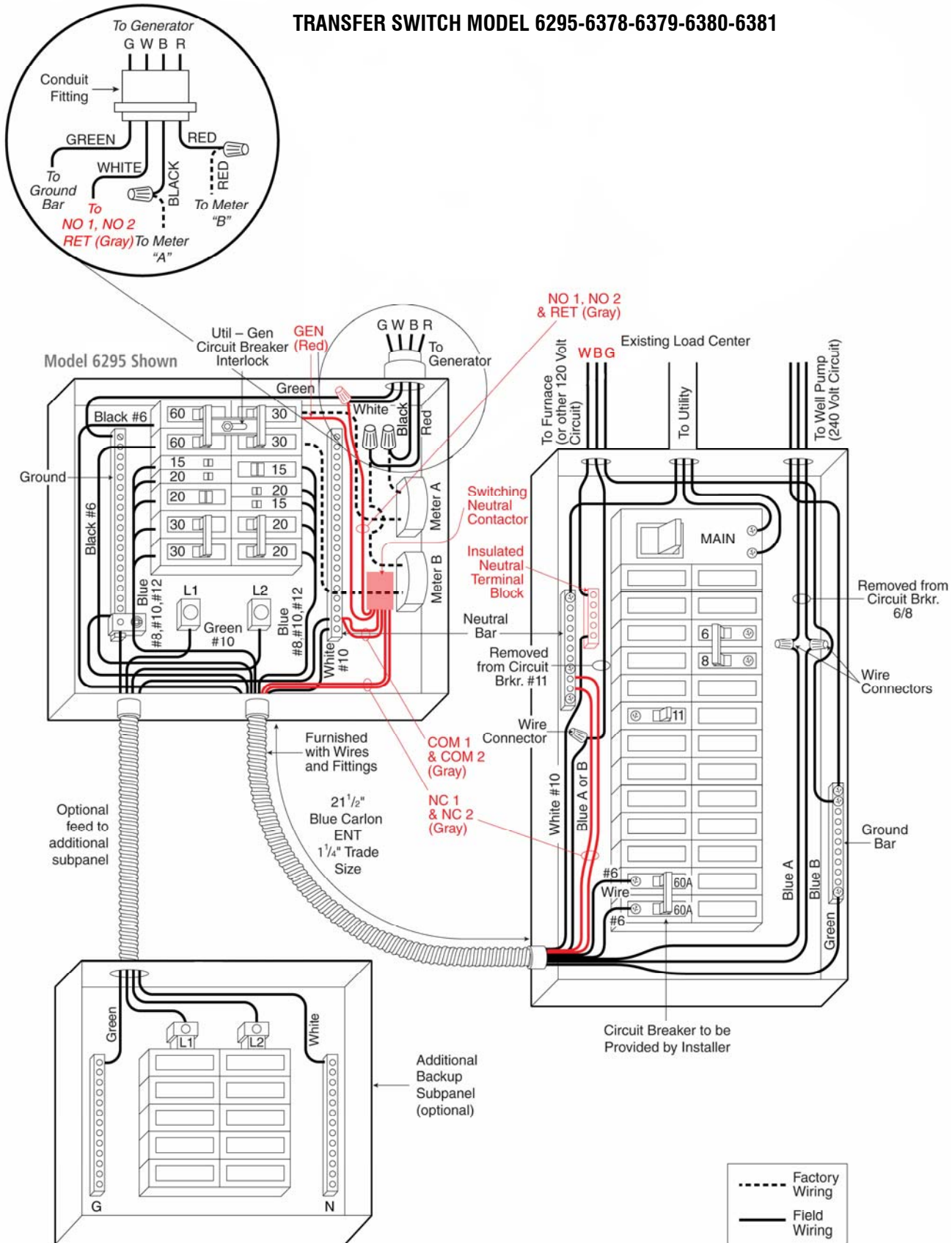
PRE-WIRED TRANSFER SWITCH
Model 6294, 6408, 6376

CUSTOMER LOAD CENTER



Model 6295

TRANSFER SWITCH MODEL 6295-6378-6379-6380-6381



--- Factory Wiring
 — Field Wiring

Generac Power Systems, Inc.
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 PN 500513 Rev B