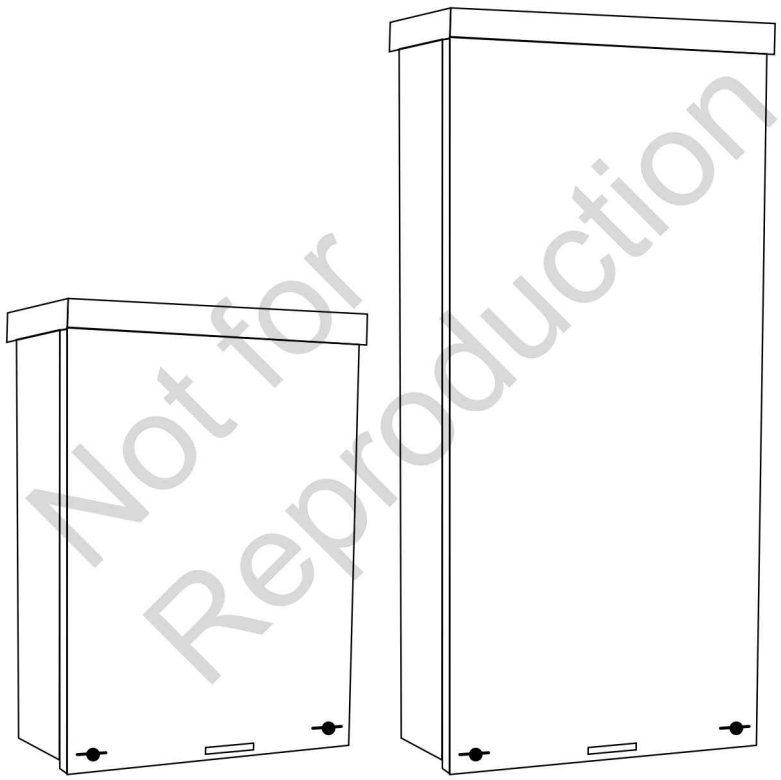
BRIGGS&STRATTON

# Automatic Transfer Switch: 100/150/200 Amp

(en) Installation and Operation Manual

(es) Manual de instalación y operación

(fr) Manuel d'installation et d'utilisation





LISTED

(en) This transfer switch is rated in accordance with UL (Underwriters Laboratories) 1008 (transfer switch equipment).
This equipment is suitable ONLY for use with Briggs and Stratton® Standby generator sets.

(es) Este interruptor de transferencia está clasificado de acuerdo con la norma UL (Underwriters Laboratories) 1008 (equipos de interruptor de transferencia).
Este equipo es adecuado ÚNICAMENTE para su uso con generadores de energía de emergencia Briggs and Stratton®.

(fr) Ce commutateur de transfert est évalué en conformité à la norme 1008 (équipement de commutation de transfert) de UL (Underwriters Laboratories).
Cet équipement peut être utilisé UNIQUEMENT avec les groupes électrogènes fixes/génératrices de secours Briggs and Stratton®.



80126070

Revision B

# Manual Contents:



# Important Safety Instructions

**SAVE THESE INSTRUCTIONS** - This manual contains important instructions that must be read, understood, and obeyed during installation of generator kits and/or accessories.

## Safety Symbols and Meanings

| Symbol | Meaning |
|---|---|
|  | Safety alert symbol shows a possible personal injury hazard. |
|  | Read Manual. Failure to obey warnings, instructions, installation manual, and Operator's Manual could result in death or serious injury. |
|  | Electric Shock |

## Safety Alert Symbol and Signal Words

The safety alert symbol  identifies safety information about hazards that could result in personal injury. A signal word (**DANGER**, **WARNING**, or **CAUTION**) is used to indicate the likelihood and the potential severity of injury. In addition, a hazard symbol is used to represent the type of hazard.

**DANGER** indicates a hazard which, if not avoided, **will** result in death or serious injury.

**WARNING** indicates a hazard which, if not avoided, **could** result in death or serious injury.

**CAUTION** indicates a hazard which, if not avoided, **could** result in minor or moderate injury.

***NOTICE*** indicates information considered important but not hazard-related.

## Safety Messages

**WARNING** 

This product contains lead and lead compounds, known to the state of California to cause birth defects or other reproductive harm. Wash your hands after handling this product. Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

***NOTICE:*** Improper treatment of the transfer switch could damage it and shorten its life.

- Use the transfer switch only for intended uses. See *Equipment Description and Product Use* section of this manual.
- If you have questions about the intended use, contact your authorized dealer.
- The enclosure door must be closed.
- DO NOT expose the transfer switch to excessive moisture, dust, dirt, or corrosive vapor.
- Remain alert at all times while working on this equipment. Never work on the equipment when you are physically or mentally fatigued.

# General Information

For most applications, the *Installation and Operation Manual* contains the information necessary to correctly install, operate, and maintain the transfer switch. Briggs & Stratton has made every effort to make sure that the information in this manual is accurate and current. Briggs & Stratton reserves the right to change, alter, or otherwise improve the product and this document at any time without prior notice.

## FCC Statement Part 15 (To User)

Pursuant to part 15.21 of the FCC Rules, you are cautioned that changes or modifications to the product not expressly approved by Briggs & Stratton could void your authority to operate the product.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Thank You

Thank you for purchasing this quality-built Briggs & Stratton® transfer switch. We are pleased that you have placed your confidence in the Briggs & Stratton brand. When operated and maintained according to the instructions in this manual, your transfer switch can provide many years of dependable service. This manual contains safety information to make you aware of the hazards and risks associated with transfer switches and how to avoid them.

**SAVE THESE INSTRUCTIONS.** This manual contains important instructions that users must obey during installation, operation, and maintenance of the transfer switch.

## Where to Find Us

You do not have to look far to find support and service for your equipment. There are many authorized service dealers worldwide that supply quality service. You can also contact Customer Service by phone at **800-732-2989** between 8:00 AM and 5:00 PM central time or click on "Dealer Locator" at www.briggsandstratton.com, which will supply a list of authorized dealers.

## For Future Reference

Fill out the information that follows and keep it with your receipt. Have this information at hand if you need to contact your installer or authorized dealer regarding service or repair of the unit.

Date of Purchase: _____

Dealer/Retailer: _____

Dealer's/Retailer's Phone Number: _____

**TRANSFER SWITCH:**

Model Number: _____

Model Revision: _____

Serial Number: _____

## Equipment Description and Product Use

The transfer switch is designed to transfer whole house to standby power in the event of a primary power outage. The load connects to the utility power (normal) or to standby power (generator). The generator controller monitors utility and generator voltages, and automatically controls the transfer switch board to connect load to the appropriate source of power..

Only a licensed electrician should complete a transfer switch installation. Service conduit and conductors can be wired directly from the watt-hour meter to the transfer switch. A separate service entrance disconnect and associated wiring is not necessary when installed as specified by applicable federal, state and local codes, standards and regulations.

Major components of the transfer switch are a 2 pole Service Disconnect Circuit Breaker, a 2 pole double throw transfer switch, transfer switch board, fused utility terminals and interconnecting wiring. All of these components are housed in a NEMA 3R enclosure that is appropriate for both indoor and outdoor installations.

The transfer switch is solenoid-operated from utility or generator inputs and contain suitable mechanical and electrical interlock switches to eliminate the possibility of connecting the utility service to the generator output. It has ratings that can switch full utility power into the residence. A manual override lever is provided for the transfer function.

The generator controller has active circuits that senses utility and generator voltages. The generator controller controls when the generator starts and when the transfer switch transfers to utility or generator power. The status LEDs show the position of the transfer switch contactor.

## Installer Responsibilities

- Read and obey the safety, installation and operation instructions in this *Installation and Operation Manual*.
- Install only a Nationally Recognized Testing Laboratory (NRTL) approved transfer switch that is compatible with the generator.
- Installation must obey all applicable codes, industry standards, laws, and regulations.
- Allow sufficient room on all sides of the transfer switch for maintenance and service.
- Speak with the owner about transfer switch placement.
- Speak with the owner about their load priority preferences to decide on remote module priority settings.
- Make sure the generator is not overloaded with selected loads.
- Make sure that ALL of the manuals are given to the owner after the installation has been completed.

## Owner Responsibilities

To help you make the correct choices and communicate effectively with your installation contractor(s), read and understand the *Owner Orientation* before you start your equipment installation.

- Read and obey the instructions in this Installation and Operation Manual.
- Schedule regular maintenance for your equipment to be done by licensed electrical professionals.

For correct installation, contact the store where you purchased your equipment, your dealer, or your utility power provider. The equipment warranty is VOID unless the system is installed by licensed electrical professionals.

**Owner Orientation**

The illustrations given are for typical circumstances and are meant to familiarize you with the installation options available with your system. Local codes, appearance, and distances must be considered when negotiating with an installation professional. As the distance from the electrical service increases, compensation in wiring materials must be allowed for. This is necessary to comply with local codes and to overcome electrical voltage drops. These factors will have a direct effect on the overall price of your equipment installation.

Your installer must find local codes AND get the necessary permits before the system is installed.

## Installation Factors to Consider

The illustrations shown in this manual depict typical circumstances. They are meant to familiarize you with the installation options available for the transfer switch and optional equipment for the transfer switch.

Always consider installation factors such as federal and local codes, appearance, noise levels, and distances. Compensations can be necessary to comply with local codes and overcome drops in electrical voltage.

## Delivery Inspection

Avoid damage from dropping, bumping, or collision with the shipping carton.

Remove the carton and carefully examine the equipment for damage that can occur during shipment.

If an owner sees loss or damage at the time of delivery, the owner must tell the person or persons who made the delivery to document the loss or damage on the freight bill and affix a signature under the consignor's memo of loss or damage. If the owner notices loss or damage after delivery, separate the damaged materials and then contact the carrier for claim procedures. Missing or damaged parts are not warranted.

## Shipment Contents

**The transfer switch system is supplied with:**

- Automatic transfer switch
- Installation and Operator's Manual

**The transfer switch system does not included (An owner will need):**

- Connecting wire and conduit
- Torque screwdriver, 5 to 50 inch-pound range
- Multimeter
- Various specialty tools/equipment

# Installation

Only current licensed electrical professionals are qualified to do system installations. Installations must obey all related codes, industry standards and regulations. The equipment warranty is VOID unless the system is installed by licensed electrical professionals.

## Mounting Guidelines

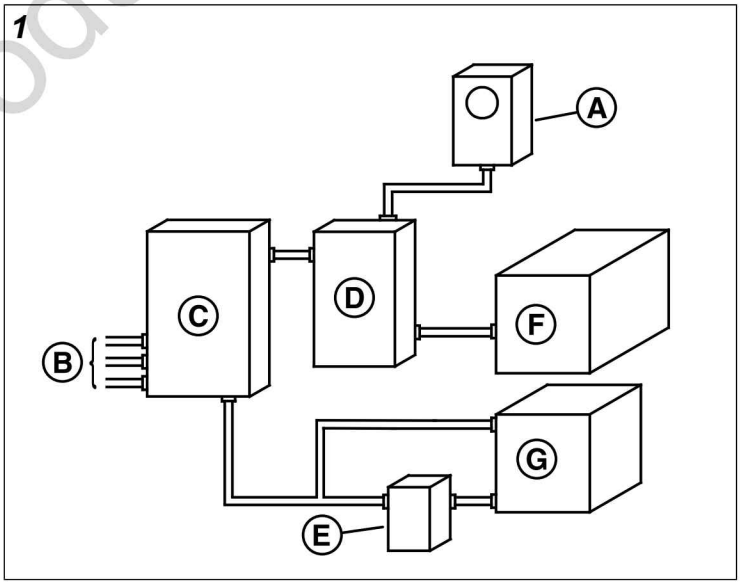
The transfer switch system circuitry is in a NEMA Type 3R enclosure for indoor/outdoor use. Guidelines for mounting the enclosure include:

- Install enclosure on a firm, strong support structure.
- The transfer switch enclosure must be installed with minimum NEMA 3R hardware for conduit connections.
- To prevent switch contact distortion, level and plumb the enclosure. Put washers between the enclosure and the mounting surface.
- DO NOT install the transfer switch where too much corrosive substances could fall onto the enclosure.
- Always protect the switch from too much moisture, dust, dirt, lint, construction grit and corrosive vapors.

A typical automatic transfer switch installation is shown in Figure 1. It is best if the transfer switch is mounted near the utility watt-hour meter (inside or outside). Speak to the owner about layout suggestions and changes before you start the system installation process.

**Typical Automatic Transfer Switch Installation**

*1*




(A) - Watt-Hourmeter

(B) - Branch Circuits

(C) - Main Distribution Panel

(D) - Transfer Switch with Service Disconnect

(E) - Air Conditioner Disconnect

(F) - Generator

(G) - Air Conditioner

***NOTICE*** Before you drill conduit entry holes, or other holes, protect the switch and electronics with a cover. This prevents dirt and metal fragments from entry of the mechanical and electrical components. Failure to do so could result in damage or malfunction of the switch. Wiring to generator must be enclosed in conduit.

***NOTICE*** Use a vacuum to remove dirt or metal shavings in the transfer switch. Do not use a blower or compressed air to clean the transfer switch because debris can get caught in the electrical and mechanical components, and cause damage or malfunction.

## Power Wiring Interconnections

**WARNING**

Generator and utility voltage could cause electrical shock or burn resulting in death or serious injury.

- Installation must be performed by a licensed professional.
- Disconnect all sources of electricity before installing or servicing equipment.
- Ground system before applying power.

**WARNING**

Hazardous Voltage - Installing low and high voltage wire in same conduit could cause electric shock or burns, resulting in death or serious injury.

- Do not run low and high voltage wire in the same conduit unless the insulation rating on ALL wiring is rated for 600 V. See NFPA 70 for more information.

Incorrect installation can cause damage to the circuit boards and shorten their life. If you install the circuit boards in live circuits it will damage the board, which is not included in the warranty. ALWAYS disconnect ALL sources of power before you service the generator.

***NOTICE*** Disconnect all power connections before you install this equipment. Failure to do so could cause internal damage to the board during electrical connections.

All wiring must be the correct gauge, correctly supported and protected by conduit. All wiring must be done as specified by federal, state and local codes, standards and regulations. Obey the wire type and torque specifications printed on the terminal blocks, neutral/ground connectors, and installation instructions.

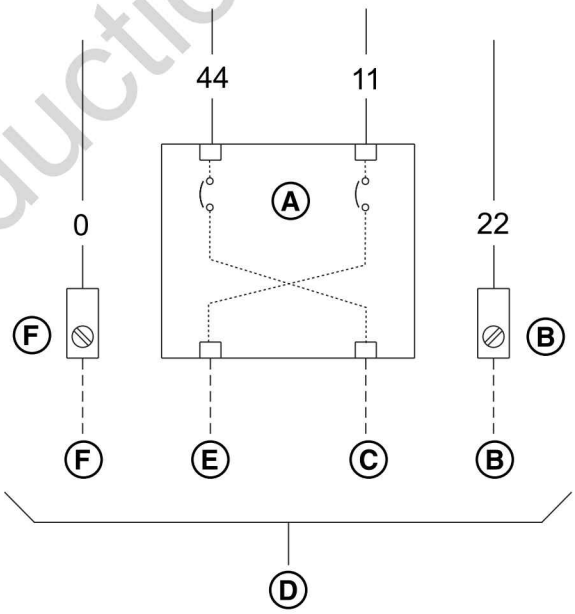
Use the installer supplied 600VAC or greater copper or aluminum wire of a gauge that complies with the latest version of the National Electric Code to complete the connections between utility power, transfer switch, generator, main distribution panel, and optional remote modules. Apply the necessary correction factors and wire size calculations

1. Set the Generator Circuit Breaker to the OFF position.
2. Set the Generator ON/OFF Switch to the OFF position.
3. Remove the 15 Amp fuse from the generator.
4. Disconnect the utility power to the generator and transfer switch.
5. Connect the utility service to the transfer switch's Service Disconnect Circuit Breaker terminals that are labeled "UTILITY CONNECTION."
6. Connect the utility service neutral to the Transfer Switch Neutral Terminal.
7. Connect the main distribution panel feeder conductors to the transfer switch terminals that are labeled "LOAD CONNECTION."
8. Connect the Neutral Bus to the Transfer Switch Neutral Terminal.
9. Connect the Ground Bus to the Transfer Switch Ground ("GND") Terminal.

***NOTICE*** Make sure that the grounding electrode conductor is connected and bonded as specified by federal, state and local codes, standards and regulations.

10. Connect the feeder conductors from transfer switch "GENERATOR CONNECTION" terminals to generator circuit breaker LINE1 and LINE2 terminals. Refer to Figure 2 for the correct transfer switch connections.

***2***




- **A:** Generator Circuit Breaker
- **B:** Neutral
- **C:** Line 2
- **D:** To Transfer Switch
- **E:** Line 1
- **F:** Ground

11. Connect the conductor from the Transfer Switch Neutral Terminal to the generator NEUTRAL terminal. Read the generator control panel labeling for terminal identification.

12. Connect the conductor from the Transfer Switch Ground ("GND") Terminal to the Generator Ground Terminal.

***NOTICE*** If specifically required by federal, state, or local codes, make sure the generator grounding conductor is connected.

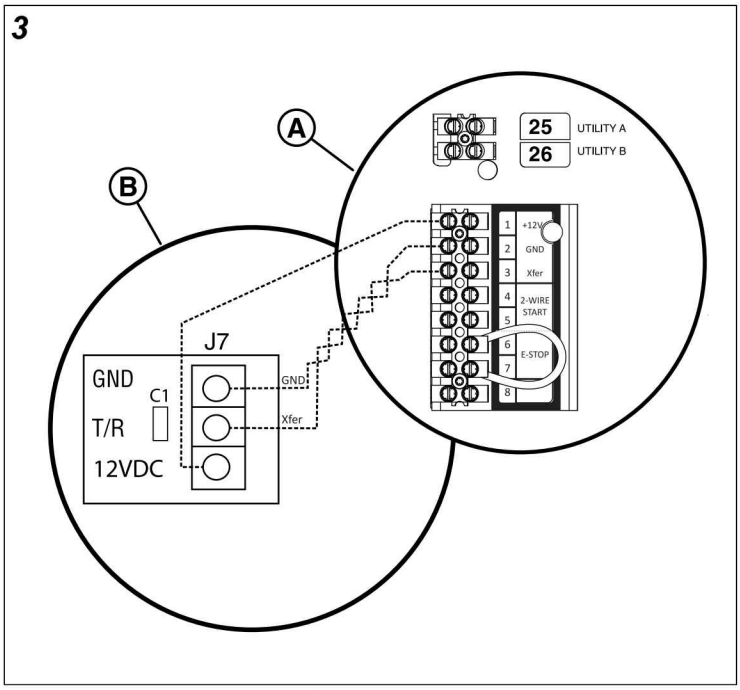
13. Use a minimum #14 AWG conductors to connect the transfer switch “UTILITY 240 VAC” terminals to the generator’s “240 VAC” terminals through the two-pole connector included with the generator.
14. Use a minimum #18 AWG twisted pair copper or aluminum conductors to connect the GND and T/R (XFER). For the +12VDC use a single #18 AWG. Refer to the table that follows for the maximum wire length specified by the wire gauge sizes.

***NOTICE*** For installations with a GC103X SERIES controller, DO NOT connect the TxRx and TxRx GND wiring, or damage to the controller can occur.

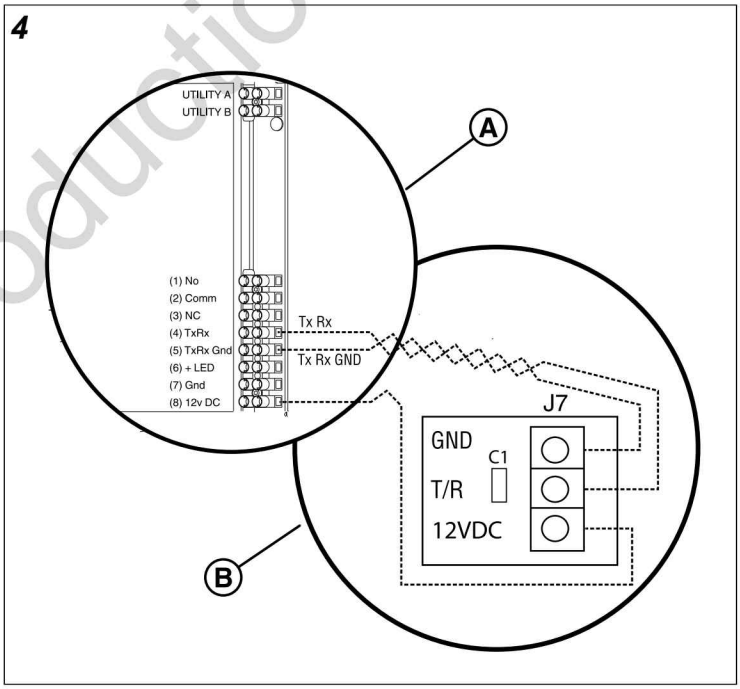
***NOTICE*** Torque Terminal J7 = 2.5 lb-in.

| Maximum Wire Length | Wire Gauge |
|---|---|
| 1 - 200 ft (1 - 60 m) | 18 |
| 201 - 300 ft (61 - 91 m) | 16 |
| 301 - 500 ft (92 - 152 m) | 14 |

**Control Panels: GC1030 SERIES GENSET** (Figure 3)




**Control Panels: Standard** (Figure 4)




- **A (Figure 3 and Figure 4):** Located at the generator (a Briggs and Stratton® generator is shown)
- **B (Figure 3 and Figure 4):** Located at the transfer switch

***NOTICE*** For this system to operate correctly, the generator controller must have the correct hardware and software version as specified in the table that follows.

| Hardware Revision or Higher | Software Revision or Higher |
|---|---|
| E4 | E1.00 |

15. Neutral is bonded to Ground with a green wire or a green wire with a yellow stripe.

***NOTICE*** Make sure that this Neutral to Ground bond is installed as specified by all current NEC, state and local codes, standards and regulations.

16. Tighten all wire connections and fasteners to the correct torque. See the label inside the transfer switch enclosure or the values listed in the remote module installation instructions for the correct torque values. The Typical Transfer Switch illustration that follows shows a completed transfer switch installation. The actual layout can vary. Make sure that the callouts in the Typical Transfer Switch illustration agree with the components in the list and figure that follows:

| Callout | Component |
|---|---|
| A | From Utility Watt-Hour Meter |
| B | Transfer Switch Enclosure |
| C | Terminal J7 |
| D | Transfer switch Relay Control Module (TRCM) |
| E | Transfer Switch Neutral Terminal |
| F | Neutral Bus |
| G | Ground Bus |
| H | Distribution Panel |
| J | Utility 240 VAC to Generator |
| K | Ten or Eight Pin Terminal Strip |
| L | Two Pin Terminal Strip |
| M | Generator Circuit Breaker |
| N | Generator |
| P | Generator Neutral Terminal |
| R | Generator Ground Terminal |
| S | Transfer Switch Ground Terminal |
| T | Load Connection to Distribution Panel |
| U | Service Disconnect Circuit Breaker |
| V | Utility Connection |
| W | Generator Connection |
| X | Neutral to Ground bond |
| Y | Fourth Wire (Stranded Wire) |
| Z | Wire Cap and Electrical Tape |

***NOTICE*** For the correct torque values refer to the decals located at the Transfer Switch.

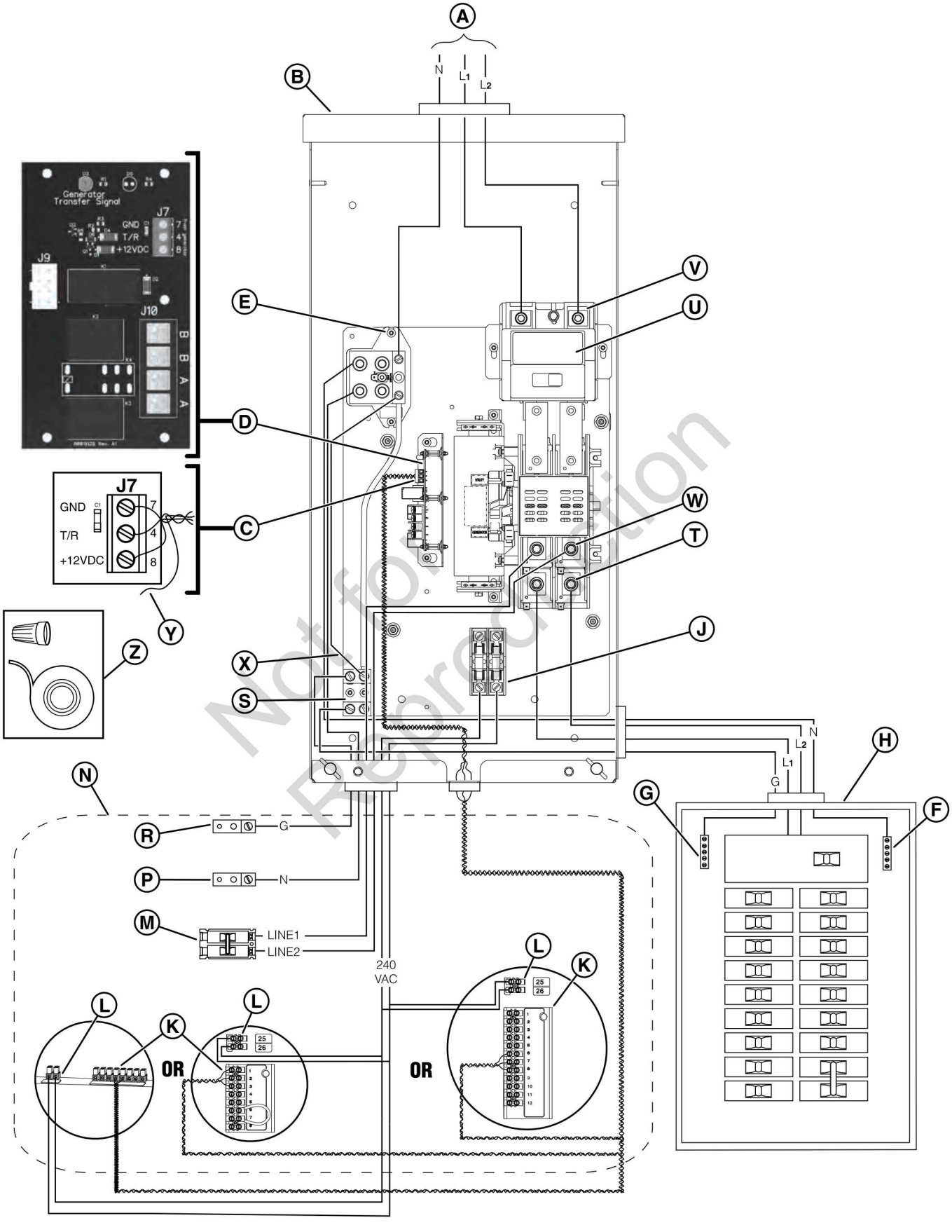
***NOTICE*** The fourth wire (Y) is not used in a standard installation but should be reserved for future use with optional accessories. The end of the wire should be protected by a wire cap or folded over and wrapped with electrical tape (Z).

***NOTICE*** The wires between the generator and the transfer switch must be enclosed in the conduit.

## Transfer Switch - Completed Install

An automatic transfer switch installation is shown in Figure 5.

*5*



## System Setup (for GC1030 SERIES GENSET Controller)

No setup is necessary for the GC1030 SERIES GENSET controller to function with the TRCM board.

## System Setup (for Standard Controller)

This is only applicable to Briggs & Stratton generator controller software version E1 or higher, hardware E4 or higher. For system setup, refer to the flowchart (Figure 6) and the steps that follow.

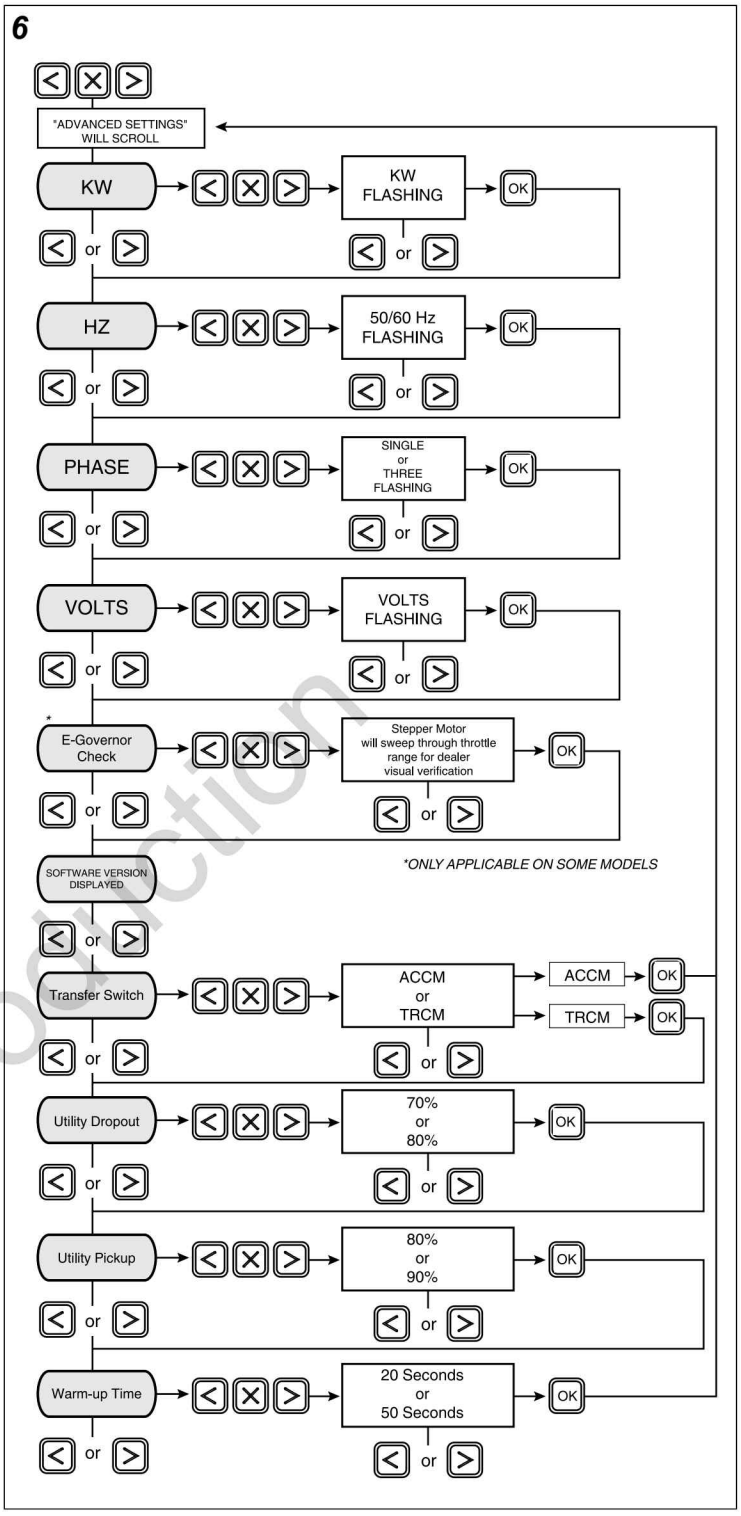
***NOTICE*** When the generator starts for the first time, it purges air from the gaseous fuel lines. This process can cause the engine to run roughly for a few minutes.

1. Go to the generator control panel.

***NOTICE*** Make sure the generator controller is off.

2. Access the advanced menu screen settings. Refer to the *Control Panel* section in the Generator Operator's Manual.

3. In the advanced menu screen, scroll to the transfer switch settings as shown in Figure 6.




4. Set the TRCM and push OK.
5. If the generator is installed in an area regularly subjected to temperatures below 40°F (4°C), select a 50 second warm up time at the advanced menu settings. The factory default is set to a 20 second warm up.
6. Put the 15A ATO fuse into the fuse holder of the generator controller.

7. Measure the voltage across the GND terminal and +12V DC at the generator's electrical box. The voltage should be approximately +12V DC. If there is no voltage, check to make sure that the hardware revision of the control panel is E4 or higher.
8. Measure the voltage across the GND terminal and +12V DC at the generator's electrical box. The voltage should be approximately +12V DC. If there is no voltage, check to make sure that the hardware revision of the control panel is E4 or higher.

## Supervisory Control Wiring (A-A) and (B-B)

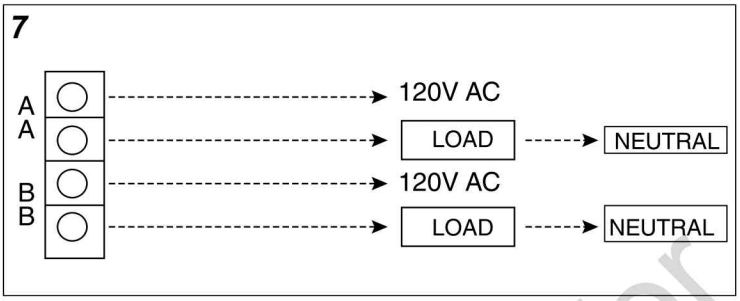
A-A and B-B

- A-A and B-B are NC contacts that are used as lockouts when the transfer switch is switched to generator power.

***NOTICE*** A-A and B-B are independent circuits.

- A-A and B-B are rated 120V AC, 1A (Figure 7).

***7***




- A-A and B-B wire range 12 - 22 AWG. Torque to 12 lb/in.

## Test the Automatic Transfer Switch

**WARNING**

Shock Hazard. Equipment contains high voltage that could cause electrocution resulting in death or serious injury.

- Testing must only be performed by qualified personnel.

Turn the Service Disconnect Circuit Breaker to the OFF position. The system's automatic sequence will initiate. To return to utility power, turn the Service Disconnect Circuit Breaker to the ON position.

## Controls

Other than a manual override lever, there are no operator controls because this is an automatic transfer switch. The manual override is to be used only by licensed professionals. To get Information on the lever, call Technical Service at 800-732-2989.

# Operation

## Utility Fail
The generator senses when the utility voltage is below 70 percent of nominal. The engine start sequence initiates after a 6-second time delay.

## Engine Warm-Up
This is the time delay for engine warm-up before transfer.

## Transfer
The transfer from the utility to the generator supply occurs after the voltage is above set levels. The generator control board will send a transfer signal (12 VDC) to the TRCM board. Then, the red LED will turn ON and the transfer switch switches to generator power. The minimum engine operation time is 5 minutes after transfer.

## Utility Pickup
The voltage pickup level is 80 percent of the nominal voltage.

## Re-transfer
Re-transfer from the generator to the utility power is approximately 10 seconds after the utility voltage supply is above pickup level and the minimum operation time is completed.

## Engine Cool Down
Standard controller - The engine will operate for 1 minute (60 seconds) after re-transfer.

GC1030 SERIES GENSET controller - The engine will operate for 5 minutes (300 seconds) after re-transfer.

## Set the Automatic Transfer Operation
To set the automatic transfer operation, complete the steps that follow:

1. In the transfer switch, set the Service Disconnect Circuit Breaker to the ON position.
2. Set the Generator Disconnect Circuit Breaker to the ON position.
3. Install a 15 Amp fuse in the generator.
4. Set the generator controller to AUTO.

## Enclosure Door (Open and Close)

**WARNING**

Generator and utility voltage could cause electrical shock or burn resulting in death or serious injury.

- DO NOT allow unqualified persons to operate or service this equipment.

**Open the Door**

1. Open the transfer switch door.
2. Remove the two exterior thumb screws (A, Figure 8).
3. Carefully lift off the door.

**Close the Door**

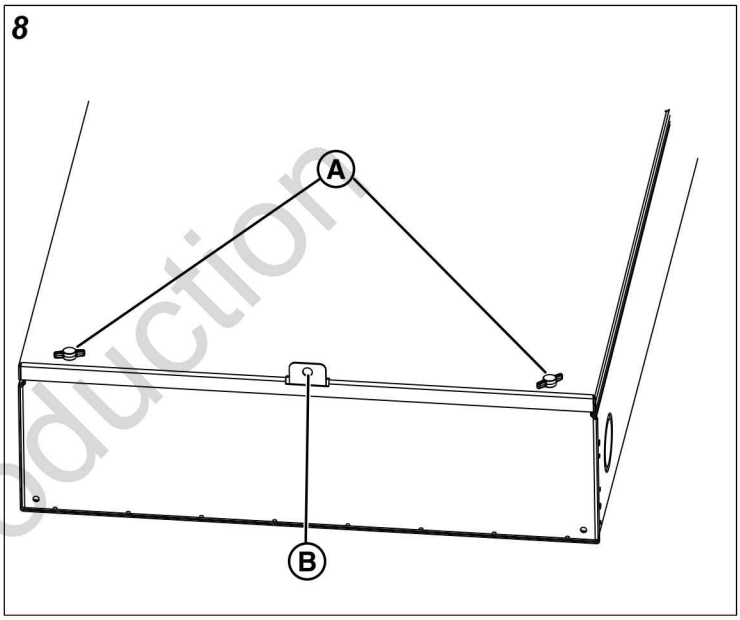
1. Push the door against the enclosure.
2. Put the tab on the enclosure into the slot on the door.

***NOTICE:*** The door can now rest on the tab (B, Figure 8 ) at the bottom of the enclosure.

3. Install the thumb screws (A). Tighten them with your hand.

***NOTICE:*** The enclosure door MUST be closed and secured at all times except when the system is being serviced.

*8*




## When Calling for Assistance
You must have the Model Number and Serial Number from each transfer switch or remote module ID label at hand if it is necessary to contact a local service center regarding service or repair. Obtain this information from the unit ID labels located on or inside device. For convenience, record the information in the For Future Reference section at the front of this manual.

To contact Briggs & Stratton call **800-732-2989**, between 8:00 AM and 5:00 PM CT.

## Pre-Service Inspection
Before you service the system, examine all of the installation carefully.

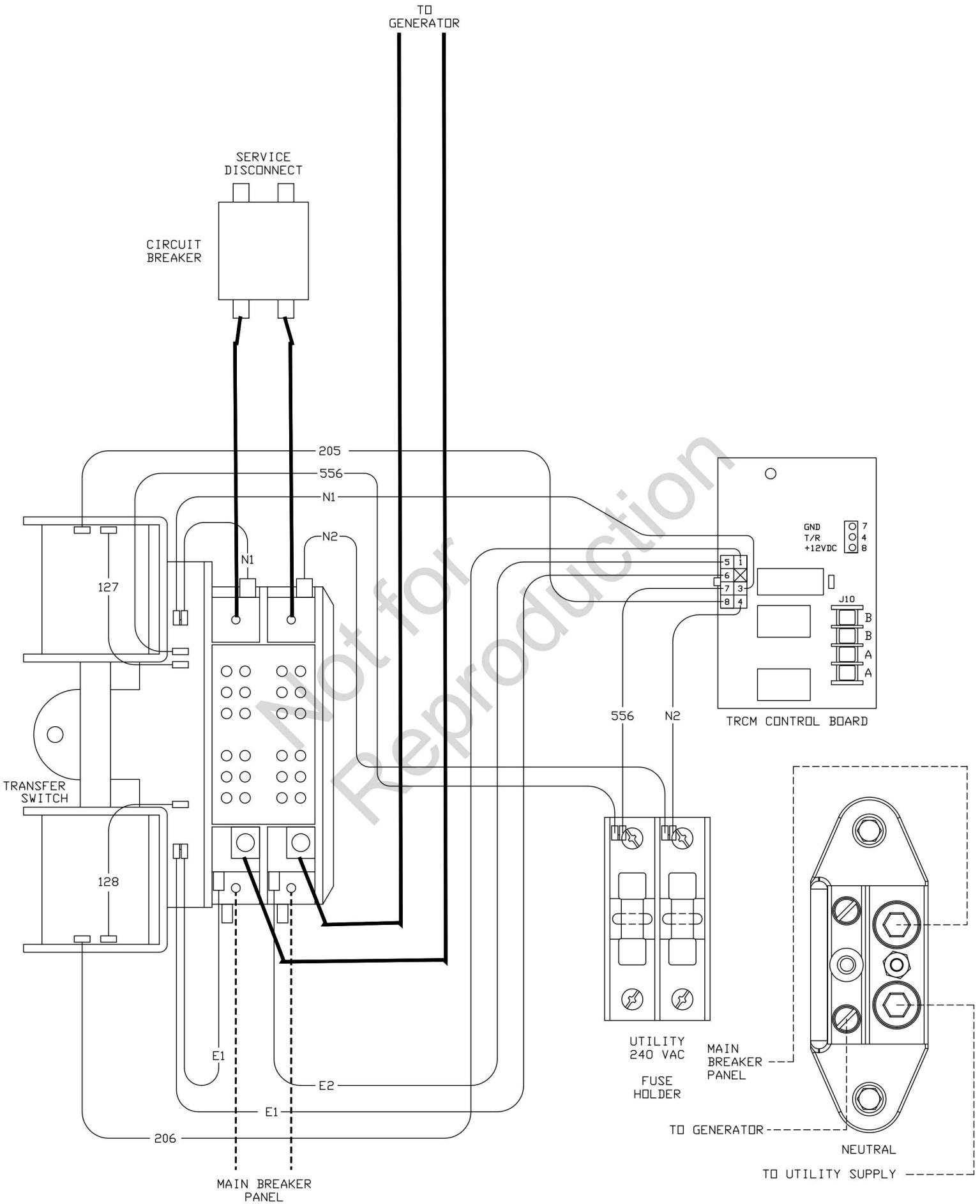
# Troubleshooting

## Troubleshooting Table

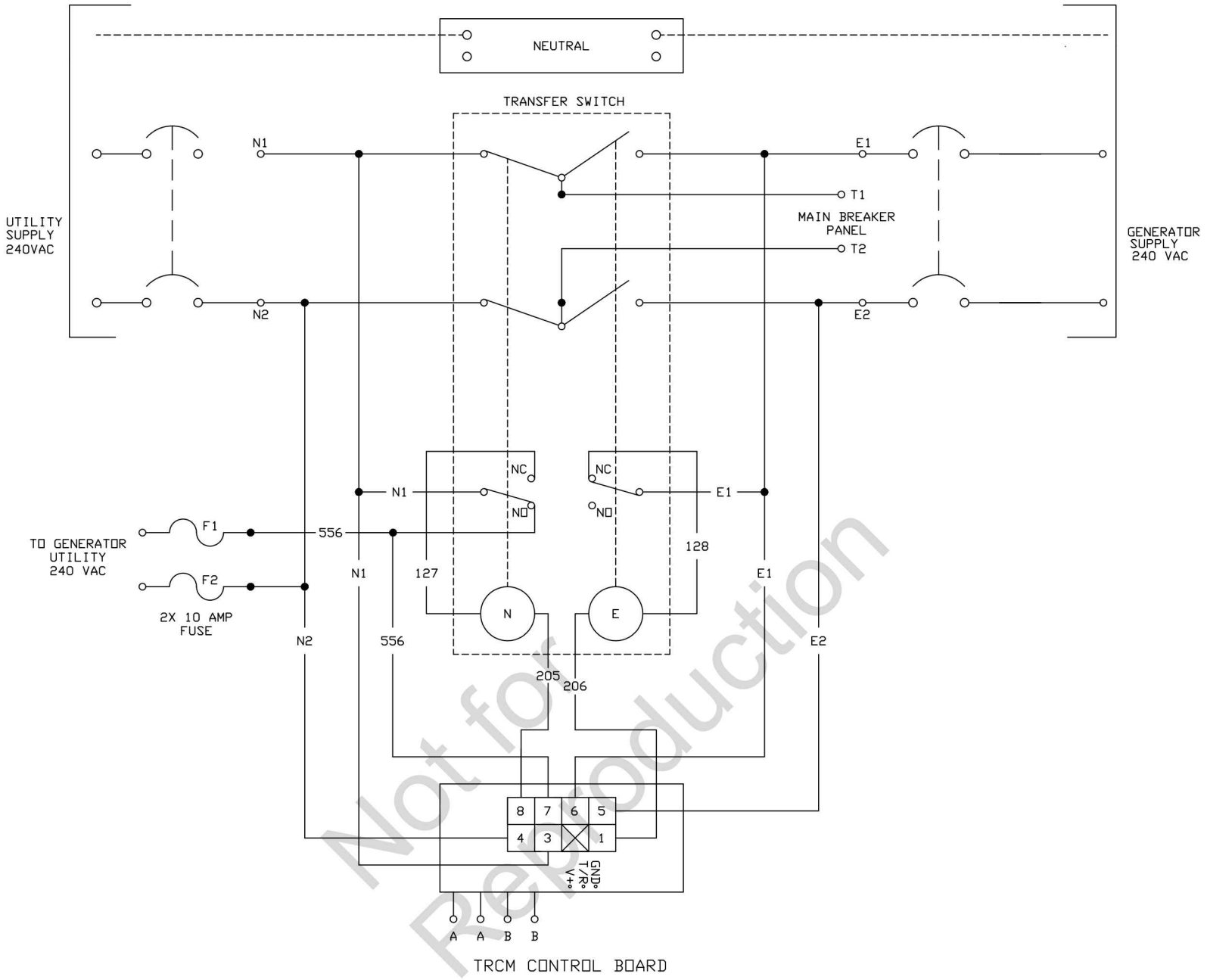
See the *Alarms* section of the separate online manual titled *Operation Instructions GC1030 SERIES GENSET Controller* for details on service alarm description and causes. Call 800-732-2989 or visit www.briggsandstratton.com for assistance.

| PROBLEM | CAUSE | CORRECTION |
|---|---|---|
| The automatic transfer switch does not transfer to the generator. | 1. The generator breaker is open.<br>2. The generator voltage is incorrect.<br>3. There is no transfer signal (12VDC) or there is a ground short. | 1. Reset or replace circuit breaker.<br>2. Refer to your Generator's *Installation and Operators* manual.<br>3. Check for transfer signal (12VDC) at the generator controller and TRCM – visually inspect the wiring. |
| The Automatic transfer switch does not transfer to utility. | 1. The Service Disconnect Circuit Breaker is open in the transfer switch.<br>2. The utility voltage is incorrect.<br>3. Transfer is shorted high. | 1. Reset the Service Disconnect Circuit Breaker in the transfer switch.<br>2. Wait for the utility voltage to come back to normal.<br>3. Make sure all strands are correct. |
| The generator continues to operate after the switch transfers to utility power. | Engine cool down period. | See the Common Faults and Their Remedial Actions table inside the separate online manual titled Operation Instructions GC1030 SERIES GENSET Controller for details.<br>• Standard controller: the engine will stop after 1 minute (60 seconds).<br>• GC1030 SERIES GENSET controller: the engine will stop after five minutes (300 seconds). |
| The generator or supervised loads (air conditioner, etc.) operate incorrectly when the generator supplies power. | A-A or B-B contacts operate incorrectly. They do not operate under generator power (locked out). | Check A-A or B-B contacts for the correct operation and/or check the control wiring to the external load. |
| The generator continues to operate after utility power comes back. | 1. The minimum engine operation time has not elapsed.<br>2. The fuse(s) in the transfer switch is defective. | 1. Wait for the transfer switch to re-transfer to utility power.<br>• Standard controller: wait 1 minute (60 seconds).<br>• GC1030 SERIES GENSET controller: wait five minutes (300 seconds).<br>2. Contact an authorized service center. |

# Wiring Diagram — 100, 150, and 200 Amp



# Wiring Schematic — 100, 150, and 200 Amp



# Specifications

## Transfer Switch Specifications

| Model: | 071210 | 071250 | 071270 |
|---|---|---|---|
| **Series:** | **100SED** | **150SED** | **200SED** |
| Rated Maximum Load Current 25°C (77°F) | 100 Amps | 150 Amps | 200 Amps |
| Rated AC Voltage | 250 Volts | 250 Volts | 250 Volts |
| Poles | 2 | 2 | 2 |
| Frequency | 60 Hz | 60 Hz | 60 Hz |
| Fault Current Rating (Utility Side) | 10,000 RMS Symmetrical Amperes | 22,000 RMS Symmetrical Amperes | 22,000 RMS Symmetrical Amperes |
| Fault Current Rating (Generator Side) | 10,000 RMS Symmetrical Amperes | 10,000 RMS Symmetrical Amperes | 22,000 RMS Symmetrical Amperes |
| Normal Operating Range | -28.8°C (-20°F) to 40°C (104°F) | -28.8°C (-20°F) to 40°C (104°F) | -28.8°C (-20°F) to 40°C (104°F) |
| Enclosure Material | Galvannealed Steel | Galvannealed Steel | Galvannealed Steel |
| Weight | 15.4 kg (34 lbs) | 20.4 kg (45 lbs) | 20.4 kg (45 lbs) |
| Dimensions | 20.3 in (51.6 cm) x 14.5 in (36.8 cm) x 7 in (17.8 cm) | 30 in (76.2 cm) x 14.5 in (36.8 cm) x 7.0 in (17.8 cm) | 30 in (76.2 cm) x 14.5 in (36.8 cm) x 7.0 in (17.8 cm) |

These transfer switches are UL Listed devices.