GENERAC®

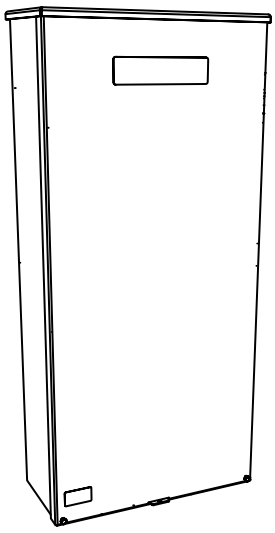
Owner's Manual

For

Automatic Transfer Switch

200 Amp, Single Phase, 240 VAC, Service Rated, 8–16 Circuit Load Center

Model Number
RXSW200A3F



SERIAL NUMBER: _____

DATE PURCHASED:_____

WWW.GENERAC.COM
888-436-3722

Para español , visita: http://www.generac.com/service-support/product-support-lookup

Pour le français, visiter : http://www.generac.com/service-support/product-support-lookup

SAVE THIS MANUAL FOR FUTURE REFERENCE

⚠WARNING

California Proposition 65. Engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects, and other reproductive harm.

(000004)

⚠WARNING

California Proposition 65. This product contains or emits chemicals known to the state of California to cause cancer, birth defects, and other reproductive harm.

(000005)

Table of Contents

Section 1: Safety

Introduction 1

Safety Rules 1

Safety Symbols and Meanings 1

Electrical Hazards 2

General Hazards 3

Section 2: Installation

Introduction to Installation 5

Mounting 5

Open Enclosure 5

Install Breakers 6

Installing Branch Circuit Conductors 6

Connecting Power Source and Generator Power Supply 6

Connecting Start Circuit Wires 7

Connecting SACM 7

Control of Air Conditioner Load 7

Auxiliary Contact 8

Fault Current Label 9

Section 3: Operation

Functional Tests and Adjustments 11

Manual Operation 11

Close to Utility Source Side 11

Close to Generator Source Side 12

Return to Utility Source Side 12

Voltage Checks 12

Utility Voltage Checks 12

Generator Voltage Checks 12

Generator Tests Under Load 12

Checking Automatic Operation 13

Installation Summary 13

Shutting Generator Down While Under Load ..13

Shutting Generator Down To Perform Maintenance 14

Testing The SACM 14

Testing The SMM 14

Fuse Removal and Installation 14

Section 4: Drawings and Diagrams

Installation Drawing 15

No. 10000007892 15

Interconnection Drawing 16

No. 10000017951—Sheet 1 of 4 (Liquid-Cooled Engine Generator) 16

No. 10000017951—Sheet 2 of 4 (Liquid-Cooled Engine Generator) 17

No. 10000017951—Sheet 3 of 4 (Air-Cooled Engine Generator) 18

No. 10000017951—Sheet 4 of 4 (Air-Cooled Engine Generator) 19

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Section 1: Safety

Introduction

Thank you for purchasing a Generac Power Systems Inc. product. This unit has been designed to provide high performance, efficient operation, and years of use when maintained properly.

⚠WARNING

Consult Manual. Read and understand manual completely before using product. Failure to completely understand manual and product could result in death or serious injury.

(000100a)

Read this manual thoroughly and understand all of the instructions, cautions, and warnings before using this equipment. If any section of the manual is not understood, contact your nearest authorized dealer, or contact Generac Customer Service at 1-888-436-3722 (1-888-GENERAC), or ***www.generac.com*** with any questions or concerns.

The owner is responsible for proper maintenance and safe use of the equipment. Before operating or servicing this transfer switch:

- Study all warnings in this manual and on the product carefully.
- Become familiar with this manual and the unit before use.
- Refer to the installation sections of the manual for instructions on final assembly procedures. Follow the instructions completely.

Save these instructions for future reference. ALWAYS supply this manual to any individual that will use this equipment.

The information in this manual is accurate based on products produced at the time of publication. The manufacturer reserves the right to make technical updates, corrections, and product revisions at any time without notice.

Safety Rules

The manufacturer cannot anticipate every possible circumstance that might involve a hazard. The warnings in this manual, and on tags and decals affixed to the unit are, therefore, not all inclusive. If using a procedure, work method or operating technique that the manufacturer does not specifically recommend, verify that it is safe for others. Also make sure the procedure, work method or operating technique utilized does not render the equipment unsafe.

Safety Symbols and Meanings

Throughout this publication, and on tags and decals affixed to the transfer switch, DANGER, WARNING, CAUTION and NOTE blocks are used to alert personnel to special instructions about a particular operation that may be hazardous if performed incorrectly or carelessly. Observe them carefully. Their definitions are as follows:

⚠DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

(000001)

⚠WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

(000002)

⚠CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

(000003)

NOTE: Notes contain additional information important to a procedure and will be found within the regular text of this manual.

These safety alerts cannot eliminate the hazards that they indicate. Common sense and strict compliance with the special instructions while performing the action or service are essential to preventing accidents.

Electrical Hazards

⚠DANGER

Electrocution. High voltage is present at transfer switch and terminals. Contact with live terminals will result in death or serious injury.

(000129)

⚠DANGER

Electrocution. Water contact with a power source, if not avoided, will result in death or serious injury.

(000104)

⚠DANGER

Electrocution. In the event of electrical accident, immediately shut power OFF. Use non-conductive implements to free victim from live conductor. Apply first aid and get medical help. Failure to do so will result in death or serious injury. (000145)

⚠DANGER

Electrical backfeed. Use only approved switchgear to isolate generator from the normal power source. Failure to do so will result in death, serious injury, and equipment damage.

(000237)

⚠DANGER

Electrocution, equipment and property damage. Handle transfer switches carefully when installing. Never install a damaged transfer switch. Doing so could result in death or serious injury, equipment and property damage. (000195)

⚠DANGER

Electrocution. Turn utility supply OFF before working on utility connections of the transfer switch. Failure to do so will result in death or serious injury.

(000123)

⚠DANGER

Electrocution. Do not disable or modify the connection box door safety switch. Doing so will result in death or serious injury.

(000157)

⚠DANGER

Automatic start-up. Disconnect utility power and render unit inoperable before working on unit. Failure to do so will result in death or serious injury.

(000191)

⚠DANGER

Equipment malfunction. Installing a dirty or damaged transfer switch will cause equipment malfunction and will result in death or serious injury.

(000119)

⚠WARNING

Electric shock. Only a trained and licensed electrician should perform wiring and connections to unit. Failure to follow proper installation requirements could result in death, serious injury, and equipment or property damage.

(000155a)

⚠CAUTION

Equipment damage. Verify all conductors are tightened to the factory specified torque value. Failure to do so could result in damage to the switch base.

(000120)

⚠CAUTION

Equipment damage. Perform functional tests in the exact order they are presented in the manual. Failure to do so could result in equipment damage.

(000121)

⚠CAUTION

Equipment damage. Exceeding rated voltage and current will damage the auxiliary contacts. Verify that voltage and current are within specification before energizing this equipment. (000134a)

General Hazards

⚠DANGER

Electrical backfeed. Use only approved switchgear to isolate generator from the normal power source. Failure to do so will result in death, serious injury, and equipment damage.

(000237)

⚠DANGER

Electrocution. High voltage is present at transfer switch and terminals. Contact with live terminals will result in death or serious injury.

(000129)

⚠DANGER

Electrocution. Turn utility supply OFF before working on utility connections of the transfer switch. Failure to do so will result in death or serious injury.

(000123)

⚠DANGER

Electrocution. Water contact with a power source, if not avoided, will result in death or serious injury.

(000104)

⚠DANGER

Electrocution. Do not wear jewelry while working on this equipment. Doing so will result in death or serious injury.

(000188)

⚠DANGER

Electrocution. Only authorized personnel should access transfer switch interior. Transfer switch doors should be kept closed and locked. Failure to do so will result in death or serious injury. (000213)

⚠DANGER

Automatic start-up. Disconnect utility power and render unit inoperable before working on unit. Failure to do so will result in death or serious injury.

(000191)

⚠DANGER

Electrocution. In the event of electrical accident, immediately shut power OFF. Use non-conductive implements to free victim from live conductor. Apply first aid and get medical help. Failure to do so will result in death or serious injury. (000145)

⚠WARNING

Loss of life. This product is not intended to be used in a critical life support application. Failure to adhere to this warning could result in death or serious injury.

(000209b)

⚠WARNING

Equipment damage. This unit is not intended for use as a prime power source. It is intended for use as an intermediate power supply in the event of temporary power outage only. Doing so could result in death, serious injury, and equipment damage.

(000247a)

IMPORTANT NOTE: See individual unit specifications for required maintenance and run times pertaining to use.

- Competent, qualified personnel should install, operate and service this equipment. Adhere strictly to local, state and national electrical and building codes. When using this equipment, comply with regulations established by the National Electrical Code (NEC), CSA Standard; the Occupational Safety and Health Administration (OSHA), or the local agency for workplace health and safety.
- If working on this equipment while standing on metal or concrete, place insulative mats over a dry wood platform. Work on this equipment only while standing on such insulative mats.
- Never work on this equipment while physically or mentally fatigued.
- Any voltage measurements should be performed with a meter that meets UL3111 safety standards, and meets or exceeds overvoltage class CAT III.

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Section 2: Installation

Introduction to Installation

This equipment has been wired and tested at the factory. Installing the switch includes the following procedures:

- Mounting the enclosure.
- Connecting power source and load leads.
- Connecting the generator start and sensing circuit.
- Connecting any auxiliary contact (if needed).
- Testing functions.

Mounting

Mounting dimensions for the transfer switch enclosure are in this manual. Enclosures are typically wall-mounted. See ***Drawings and Diagrams***.

⚠DANGER

Equipment malfunction. Installing a dirty or damaged transfer switch will cause equipment malfunction and will result in death or serious injury.

(000119)

This transfer switch is mounted in a UL type 3R enclosure. It can be mounted outside or inside and should be based on the layout of installation, convenience and proximity to the utility supply and load center.

Install the transfer switch as close as possible to the electrical loads that are to be connected to it. Mount the switch vertically to a rigid supporting structure. To prevent switch distortion, level all mounting points. If necessary, use washers behind mounting holes to level the unit.

Open Enclosure

See ***Figure 2-1***. First, remove outer cover (A):

1. Remove two thumb screws (B).
2. Slide slot (C) over retention tab.
3. Lower cover until clear of top flange (D), and pull away from enclosure.

Remove inner panel (E):

4. Loosen nut (F).
5. Grasp inner panel at two cutouts (G—left and right). Tilt inner panel as shown, passing nut through t-slot (H) in inner panel.
6. Lower inner panel until clear of two retention slots (J—left and right sides), and pull away from enclosure.

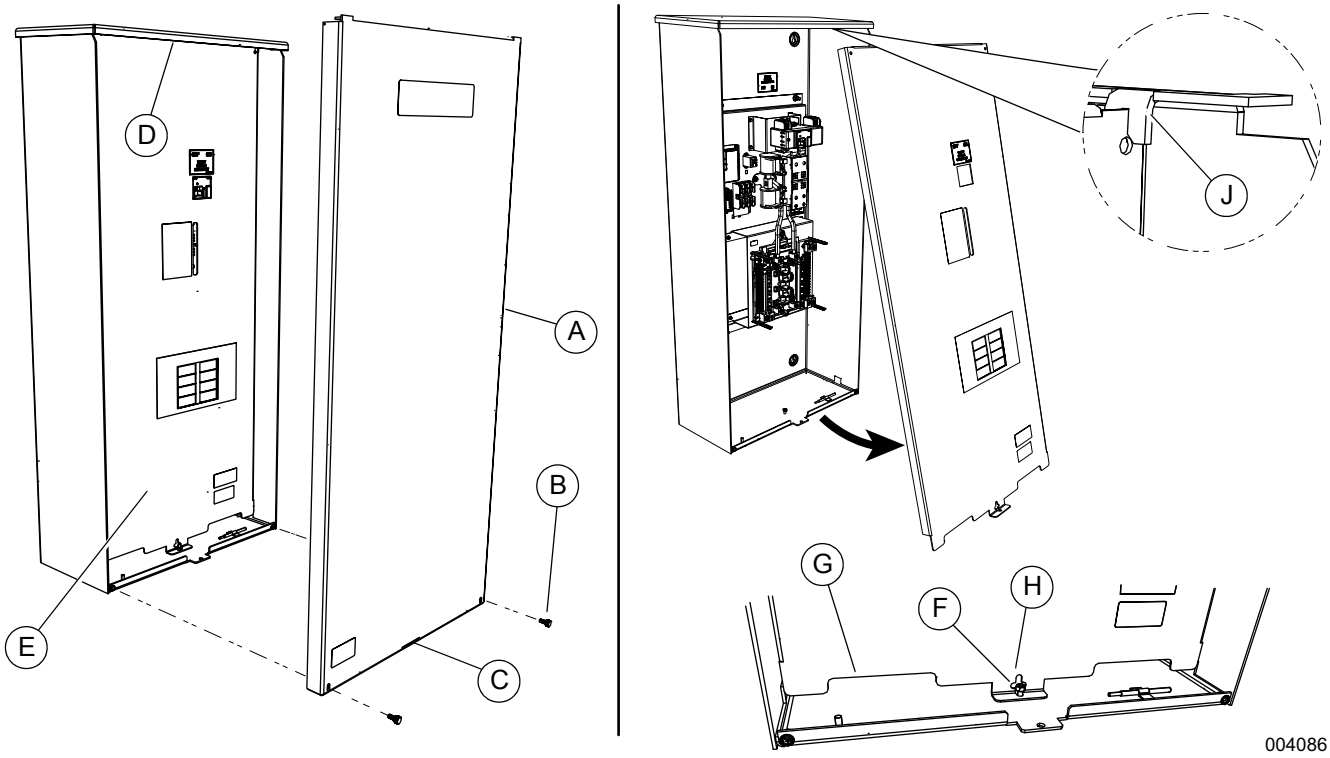


Figure 2-1. Open Enclosure

Install Breakers

1. See ***Figure 2-2***. Insert tab on each breaker (A) into the hook on the bus (B). Push the breaker into the bus until it snaps into place.

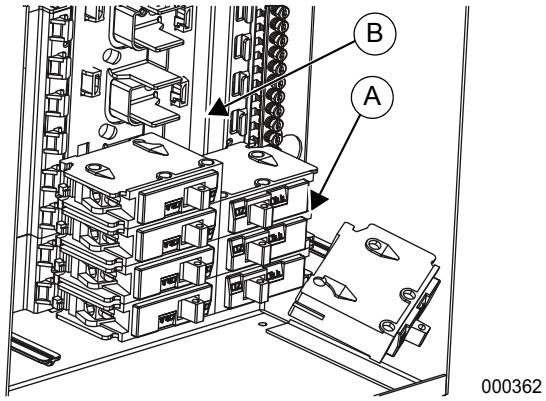


Figure 2-2. Install Breakers

Installing Branch Circuit Conductors

1. Install properly sized branch circuit conductors into the transfer switch through the knockouts provided. Additional knockouts can be made in the field as needed.
2. Connect the ungrounded branch circuit conductors (hot conductors) to a properly sized circuit breaker approved for use with the transfer switch.
3. Terminate the neutral conductor and equipment grounding conductor of the branch circuit at the neutral/equipment ground terminal bars.
4. Size all conductors, raceways, conduits, and junction boxes, if required, to the applicable NEC code articles and follow the NEC installation requirements for the wiring method(s) selected.

NOTE: Multi-wire branch circuits must be installed in accordance with NEC Article 210.4.

Connecting Power Source and Generator Power Supply

⚠DANGER

Electrocution. Turn utility and emergency power supplies to OFF before connecting power source and load lines. Failure to do so will result in death or serious injury. (000116)

Installation and interconnection diagrams are provided in this manual.

NOTE: All installations must comply with national, state and local codes. It is the responsibility of the installer to perform an installation that will pass the final electrical inspection.

1. Connect utility supply at the utility service disconnect circuit breaker terminals N1 and N2.
2. Connect utility neutral and ground to the Load Center Neutral and Ground terminals. Neutral and Ground terminals on the Load Center are bonded to each other with a jumper wire.
3. Connect loads to the Integrated Load Center with customer-supplied circuit breakers.
4. See ***Figure 2-1*** and ***Figure 2-3***. Connect generator to the generator terminals (E1 and E2) on the transfer mechanism.

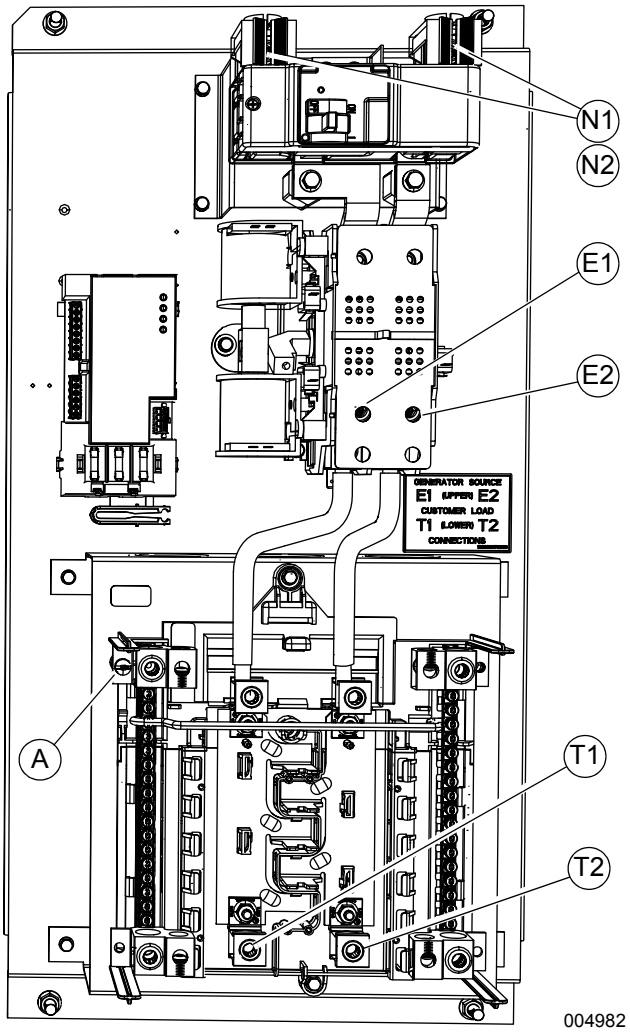


Figure 2-3. Wiring Connections

5. Connect the generator neutral wire to the top neutral lug or side lugs on the panelboard.
6. Connect neutral conductors to the lugs and terminals along the neutral/ground bars in the panelboard section of the transfer switch.
7. Connect a maximum 200A subpanel supply to lower T1 and T2 connections of 8-position Load Center Terminals. Connect subpanel Neutral and Ground to subpanel Neutral and Ground bars.
8. Connect grounding electrode conductors to the neutral / ground terminal bars in the panelboard portion of the switch.

NOTE: A Neutral to Ground bonding screw (A) is provided for use if required by local codes.

Conductor sizes must be adequate to handle the maximum current to which they will be subjected, based on the 75°C column of tables, charts, etc. used to size conductors. The installation must comply fully with all applicable codes, standards and regulations.

All power cables can enter the enclosure through the provided knockouts. Additional knockouts into the transfer switch can be made in the field as needed. Conduit entry shall maintain the proper wire bending spaces required by Tables 312.6 (A) and (B) in the NEC. Conduits should be arranged to provide separation between the Utility and Generator supply conductors inside the enclosure.

NOTE: If aluminum conductors are used, apply corrosion inhibitor to conductors. After tightening terminal lugs, carefully wipe away any excess corrosion inhibitor.

Tighten terminal lugs to the torque values as noted on the decal located on the inside of the door. After tightening terminal lugs, carefully wipe away any excess corrosion inhibitor.

⚠CAUTION

Equipment damage. Verify all conductors are tightened to the factory specified torque value. Failure to do so could result in damage to the switch base.

(000120)

Connecting Start Circuit Wires

Control system interconnections consist of N1, N2, and T1, and leads 23, 194, and 9 (Ground). The connections are color coded on the load shed to match connections in the Generac genset. Generac cable tray cable includes power cables with all necessary color-coded control wiring. It is suitable for direct burial, overhead and indoor wiring.

The generator control wiring is a Class 1 signaling circuit. Reference instruction manual of specific engine generator for wiring connection details. Recommended wire gauge sizes for this wiring depends on the length of the wire, as recommended in the following chart:

Maximum Wire Length	Recommended Wire Size
1–115 ft (1–35 m)	No. 18 AWG
116–185 ft (36–56 m)	No. 16 AWG
186–295 ft (57–89 m)	No. 14 AWG
296–460 ft (90–140 m)	No. 12 AWG

Exception: Conductors of AC and DC circuits, rated 1000 volts nominal, or less, shall be permitted to occupy the same equipment, cable, or conduit. All conductors shall have an insulation rating equal to at least the maximum circuit voltage applied to any conductor within the equipment, cable, or conduit. See NEC 300.3(C)(1).

Connecting SACM

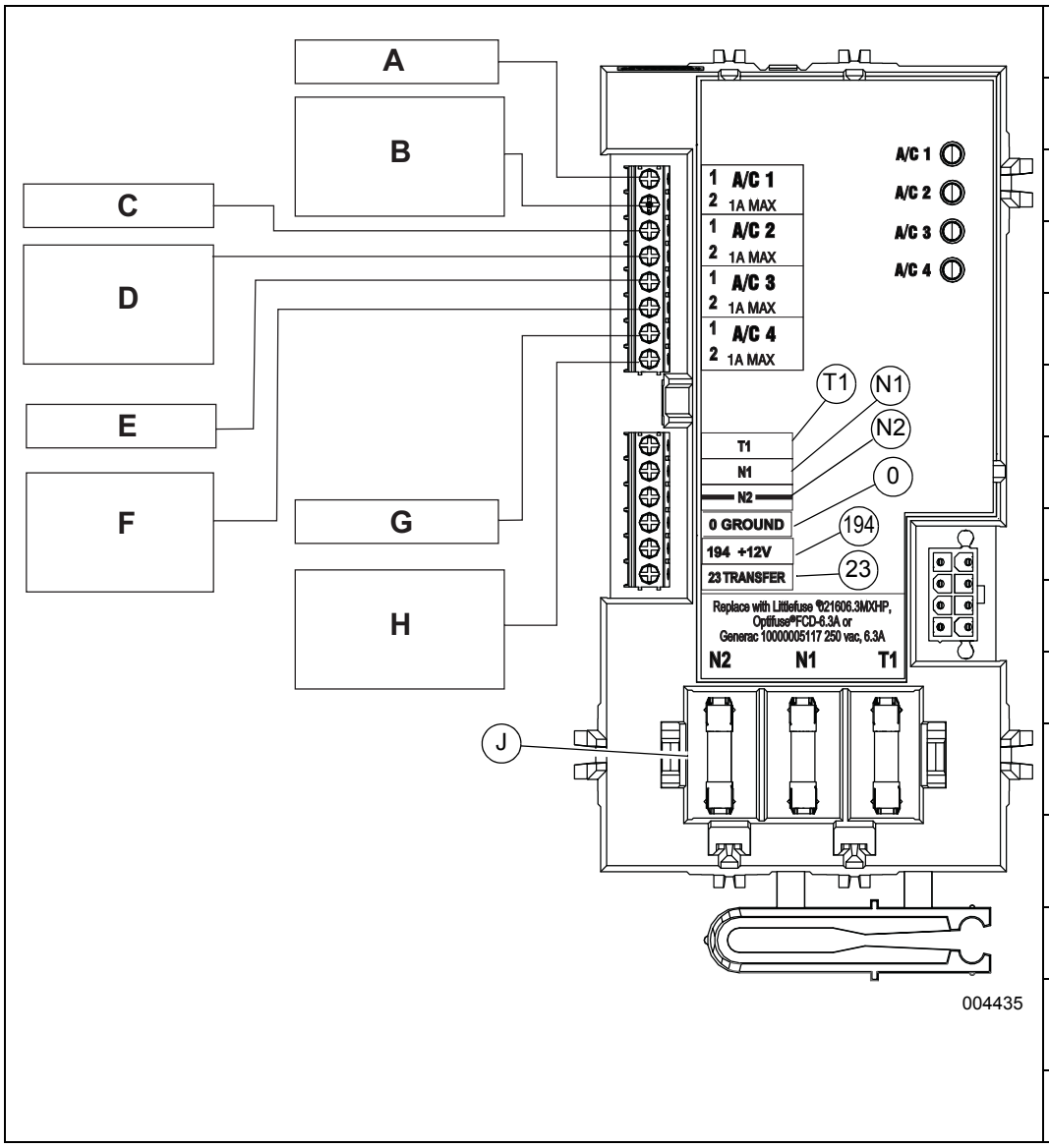
See ***Figure 2-4***. The SACM can control an air conditioner (24 VAC) directly.

Control of Air Conditioner Load

1. Route the thermostat cable (from the furnace/thermostat to the outdoor air conditioner unit) to the transfer switch.
2. Connect the wire to the terminal strip terminals (A/C 1) on the SACM as shown in ***Figure 2-4***. These are normally closed contacts which open upon load shed conditions. Route thermostat wire away from high voltage wires.
3. If required, connect additional air conditioners to the terminal strip terminals (A/C 2-4).

Contact Ratings	
A/C 1-4	24 VAC, 1.0 Amp Max

NOTE: These instructions are for a typical air conditioner installation. Control of certain heat pumps and 2-stage air conditioners may require special connections or the use of SMMs to control the loads.



A—Thermostat 1

B—Air Conditioner 1

C—Thermostat 2

D—Air Conditioner 2

E—Thermostat 3

F—Air Conditioner 3

G—Thermostat 4

H—Air Conditioner 4

T1 (fused)—Battery Charge (blue background, white letters)

N1 (fused)—Utility Sense (yellow background, black letters)

N2 (fused)—Utility Sense (yellow background with black stripe, black letters)

0—Ground (black background, white letters)

194— +12 VDC (red background, white letters)

23—Transfer Control (white background, black letters)

J—240 VAC, 6.3A Fuses

Figure 2-4. Typical SACM Connections

Auxiliary Contact

See ***Figure 2-5***. If desired, there is one normally-closed Auxiliary Contact (A) on the transfer switch to operate customer accessories, remote advisory lights, or remote annunciator devices. A suitable power source must be connected to the common terminal. If needed, an extra auxiliary contact can be added.

The auxiliary contact is normally closed when the transfer switch is in utility mode. The contacts will open when the transfer switch is in the standby power mode.

NOTE: Auxiliary Contact is rated 10 amps at 125 or 250 volts AC, and 0.6 amps at 125 volts DC.

⚠CAUTION

Equipment damage. Exceeding rated voltage and current will damage the auxiliary contacts. Verify that voltage and current are within specification before energizing this equipment. (000134a)

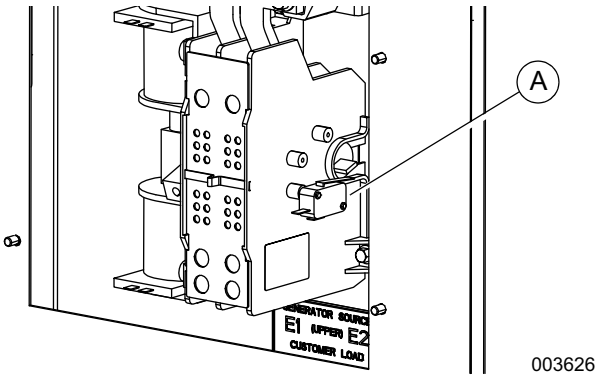


Figure 2-5. Auxiliary Contact

Fault Current Label

See ***Figure 2-6***. A Fault Current Identification Label is provided in the bag containing the unit Owner's Manual and transfer switch manual operating handle. The 2017 NEC requires that the short-circuit current rating of the transfer equipment, based on the type of overcurrent protective device protecting the transfer equipment, be field marked on the exterior of the transfer equipment. For NEC compliance, verify the required short-circuit current rating of the transfer switch before installation.The completed label provides the local AHJ (Authority Having Jurisdiction) with the information he or she may require during inspection.

Apply the label to the exterior of the transfer switch enclosure. Use a pen to fill in the required information, and then cover the label with the clear protective decal.

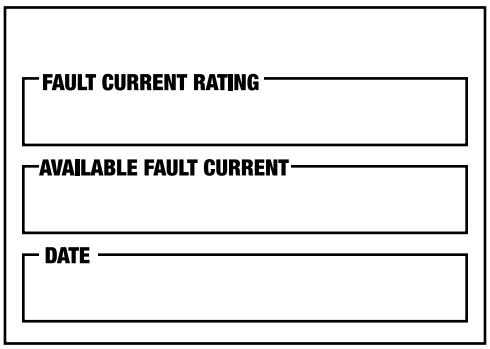


Figure 2-6. Fault Current Label

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Section 3: Operation

Functional Tests and Adjustments

Following transfer switch installation and interconnection, inspect the entire installation carefully. A competent, qualified electrician should inspect it. The installation should comply strictly with all applicable codes, standards, and regulations. When absolutely certain the installation is proper and correct, complete a functional test of the system.

⚠CAUTION

Equipment damage. Perform functional tests in the exact order they are presented in the manual. Failure to do so could result in equipment damage.

(000121)

IMPORTANT: Before proceeding with functional tests, read and make sure all instructions and information in this section is understood. Also read the information and instructions of labels and decals affixed to the switch. Note any options or accessories that might be installed and review their operation.

Manual Operation

⚠DANGER

Electrocution. Do not manually transfer under load. Disconnect transfer switch from all power sources prior to manual transfer. Failure to do so will result in death or serious injury, and equipment damage.

(000132)

See ***Figure 3-1***. A manual handle (B) is shipped with the transfer switch manual. Manual operation must be checked BEFORE the transfer switch is operated electrically. To check manual operation, proceed as follows:

1. Verify the generator is in the OFF mode.
2. Turn OFF both utility (service disconnect circuit breaker) and emergency (generator main line circuit breaker) power supplies to the transfer switch.
3. Note position of transfer mechanism main contacts (A) by observing the movable contact carrier arm. This can be viewed through the long narrow slot in the inside cover. The top of the movable contact carrier arm is yellow to be easily identified.

- Manual operation handle in the UP position - LOAD terminals (T1, T2) are connected to utility terminals (N1, N2).
- Manual operation handle in the DOWN position - LOAD terminals (T1, T2) are connected to EMERGENCY terminals (E1, E2).

⚠CAUTION

Equipment damage. Do not use excessive force while manually operating the transfer switch. Doing so could result in equipment damage.

(000122)

Close to Utility Source Side

Before proceeding, verify the position of the switch by observing the position of manual operation handle in ***Figure 3-1***. If the handle is UP, the contacts are closed in the utility (normal) position, no further action is required. If the handle is DOWN, proceed with Step 1.

1. With the handle inserted into the movable contact carrier arm, move handle UP. Be sure to hold on to the handle as it will move quickly after the center of travel.
2. Remove manual operating handle from movable contact carrier arm. Return handle to storage bracket.

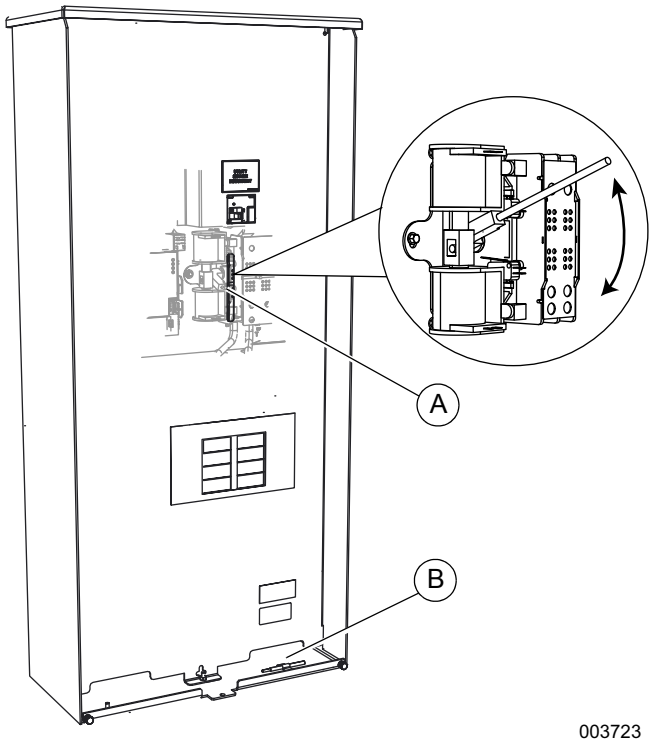


Figure 3-1. Manual Operation

Close to Generator Source Side

Before proceeding, verify the position of the switch by observing the position of the manual operation handle in ***Figure 3-1***. If the handle is DOWN, the contacts are closed in the generator (standby) position. No further action is required. If the handle is UP, proceed with Step 1.

1. With the handle inserted into the movable contact carrier arm, move the handle DOWN. Be sure to hold on to the handle as it will move quickly after the center of travel.
2. Remove manual operating handle from movable contact carrier arm. Return handle to storage bracket.

Return to Utility Source Side

1. Manually actuate switch to return manual operating handle to the UP position.
2. Remove manual operating handle from movable contact carrier arm. Return handle to storage bracket.

Voltage Checks

NOTE: Use the Digital Multimeter (DMM) LowZ low input impedance setting to collect accurate voltage measurements. LowZ eliminates the possibility of inaccurate ghost voltage readings, also known as phantom voltage or stray voltage readings. Refer to the DMM manufacturer's literature for additional information.

Utility Voltage Checks

1. Turn ON the utility power supply to the transfer switch using the utility service disconnect circuit breaker.

DANGER

Electrocution. High voltage is present at transfer switch and terminals. Contact with live terminals will result in death or serious injury.

(000129)

2. With an accurate AC voltmeter, check for correct voltage. Measure across ATS terminal lugs N1 and N2; N1 to NEUTRAL and N2 to NEUTRAL.

DANGER

Electrocution. Turn utility supply OFF before working on utility connections of the transfer switch. Failure to do so will result in death or serious injury.

(000123)

Generator Voltage Checks

1. On the generator panel, select the MANUAL mode of operation. The generator should crank and start.
2. Let the generator stabilize and warm up at no-load for at least five minutes.
3. Set the generator's main circuit breaker (CB1) to its ON or CLOSED position.

DANGER

Electrocution. High voltage is present at transfer switch and terminals. Contact with live terminals will result in death or serious injury.

(000129)

4. With an accurate AC voltmeter and frequency meter, check the no-load, voltage and frequency. Measure across ATS terminal lugs E1 to E2; E1 to NEUTRAL and E2 to NEUTRAL.

Frequency	60–62 Hz
Terminals E1 to E2	240–246 VAC
Terminals E1 to NEUTRAL	120–123 VAC
Terminals E2 to NEUTRAL	120–123 VAC

5. When certain that generator supply voltage is correct and compatible with transfer switch ratings, turn OFF the generator supply to the transfer switch.
6. Set the generator main circuit breaker (CB1) to OFF or OPEN.
7. On the generator panel, select the OFF mode to shut down the generator.

NOTE: Do NOT proceed until generator AC output voltage and frequency are correct and within stated limits. If the no-load voltage is correct but no-load frequency is incorrect, the engine governed speed may require adjustment. If no-load frequency is correct but voltage is not, the voltage regulator may require adjustment.

Generator Tests Under Load

1. Set the generator main circuit breaker to OFF or OPEN.
2. Set the utility service disconnect circuit breaker of the transfer switch to OFF or OPEN, and turn OFF or OPEN all load circuit breakers.
3. Manually actuate the transfer switch main contacts to the emergency (standby) position. See ***Manual Operation***.
4. To start the generator, select the MANUAL mode of operation. When engine starts, let it stabilize for a few minutes, and close lid.

5. Set the generator main circuit breaker to ON or CLOSED. The generator now powers all LOAD circuits. Check generator operation under load as follows:
   - Turn on electrical loads to the full rated wattage/amperage capacity of the generator. DO NOT OVERLOAD.
   - With maximum rated load applied, check voltage and frequency across transfer switch terminals E1 and E2. Voltage should be greater than 230 VAC (240 VAC system); frequency should be greater than 59 Hz.
   - Verify that the gas pressure remains within acceptable parameters (see the generator Installation manual).
   - Let the generator run under rated load for at least 30 minutes. With unit running, watch for unusual noises, vibration, or overheating that might indicate a problem.
6. When checkout under load is complete, set main circuit breaker of the generator to the OFF or OPEN position.
7. Let the generator run at no-load for several minutes. Then, shut down by selecting the OFF mode.
8. Move the main switch contacts back to the utility position.

NOTE: See ***Manual Operation***. Handle and operating lever of transfer switch should be in down position.

9. Set the utility service disconnect circuit breaker of the transfer switch to ON or CLOSED.
10. The system is now set for fully automatic operation.

Checking Automatic Operation

To check the system for proper automatic operation, proceed as follows:

1. Verify generator is OFF.
2. Set the utility service disconnect circuit breaker of the transfer switch to OFF or OPEN.
3. Verify switch is de-energized.
4. Install front cover of the transfer switch.
5. Set the utility service disconnect circuit breaker of the transfer switch to ON or CLOSED.
6. Set the generator main circuit breaker to ON.
7. On the generator panel, select AUTO. The system is now ready for automatic operation.
8. Set the utility service disconnect circuit breaker of the transfer switch to OFF or OPEN.

With the generator ready for automatic operation, the engine should crank and start when the utility source power is turned OFF after a five second delay (factory default setting). After starting, the transfer switch should connect load circuits to the standby side after a five (5) second delay. Let the system operate through its entire automatic sequence of operation.

With the generator running and loads powered by generator AC output, set the utility service disconnect circuit breaker of the transfer switch to ON or CLOSED. The following should occur:

- After approximately 15 seconds, the switch should transfer loads back to the utility power source.
- Approximately one minute after re-transfer, the generator should shut down.

With the generator in the AUTOMATIC mode, the system is now set for fully automatic operation.

Installation Summary

1. Verify the installation has been properly performed as outlined by the manufacturer and that it meets all applicable laws and codes.
2. Verify proper operation of the system as outlined in the appropriate installation and owner's manuals.
3. Educate the end-user on the proper operation, maintenance and service call procedures.

NOTE: The Utility Power Circuit Breaker in the transfer switch must be turned OFF to simulate a utility outage. Shutting off the main disconnect in a subpanel connected to the transfer switch will NOT simulate an outage.

Shutting Generator Down While Under Load

IMPORTANT NOTE: To avoid equipment damage, follow these steps, in order, when shutting the generator down during utility outages. Shutdowns may be required during outages to perform routine maintenance or to conserve fuel.

To turn the generator OFF (while running in AUTO and online):

1. Turn the main utility disconnect off.
2. Turn the generator MLCB (generator disconnect) to OFF (OPEN).
3. Run the generator for approximately one minute for proper cooling.
4. Turn the generator OFF.

To turn the generator back ON:

1. Put the generator into AUTO. Start generator and warm-up for a few minutes.
2. Set the MLCB (generator disconnect) to ON (CLOSED).

The system now operates in automatic mode. The main utility disconnect can be turned ON (CLOSED). To shut the unit off, repeat this complete process.

Shutting Generator Down To Perform Maintenance

1. Press the OFF mode button on the controller.
2. Turn the main utility disconnect OFF (OPEN).
3. Turn the MLCB (generator disconnect) on the generator to OFF (OPEN) and follow maintenance procedure(s).

To turn the generator back ON:

1. Turn the main utility disconnect ON (CLOSED).
2. Put the generator into AUTO mode.
3. Set the MLCB (generator disconnect) on the generator to ON (CLOSED).

The system is now in automatic mode.

Testing The SACM

A Test pushbutton is provided on top of the SACM to test the operation of the load shed functions. The Test button will work when the ATS is in the utility or the generator position.

1. Turn on the utility supply to the ATS.
2. Verify managed loads are powered and all LEDs illuminate on SACM.
3. Press the TEST button on the SACM.
4. Verify that all of the connected loads to be “shed” become disabled.
5. After five (5) minutes verify A/C 1 is energized and Status LED A/C 1 is ON.
6. After another 15 seconds, verify A/C 2 is energized and Status LED A/C 2 is ON.
7. After another 15 seconds, verify Load A/C 3 is energized and Status LED Load A/C 3 is ON.
8. After another 15 seconds, verify A/C 4 is energized and Status LED A/C 4 is ON.

Testing The SMM

Refer to the SMM Owner’s/Installation Manual for testing procedure.

Fuse Removal and Installation

See ***Figure 3-2***. A fuse removal and installation tool (A) is included in the control housing.

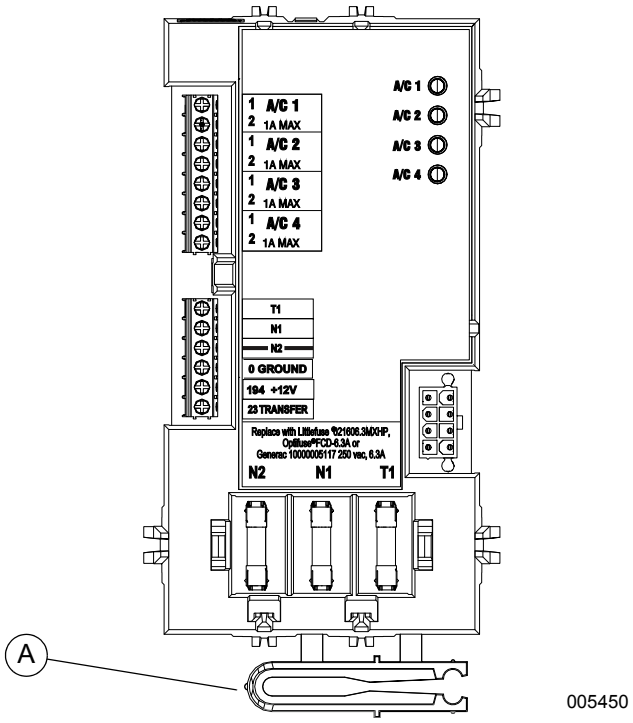


Figure 3-2. Fuse Removal and Installation Tool

If a fuse requires replacement, snap the tool free with an appropriate tool such as diagonal pliers, and use it to replace the fuse. The tool can be stored in the control housing retainer directly above the fuses, with the large thumb tab facing out.

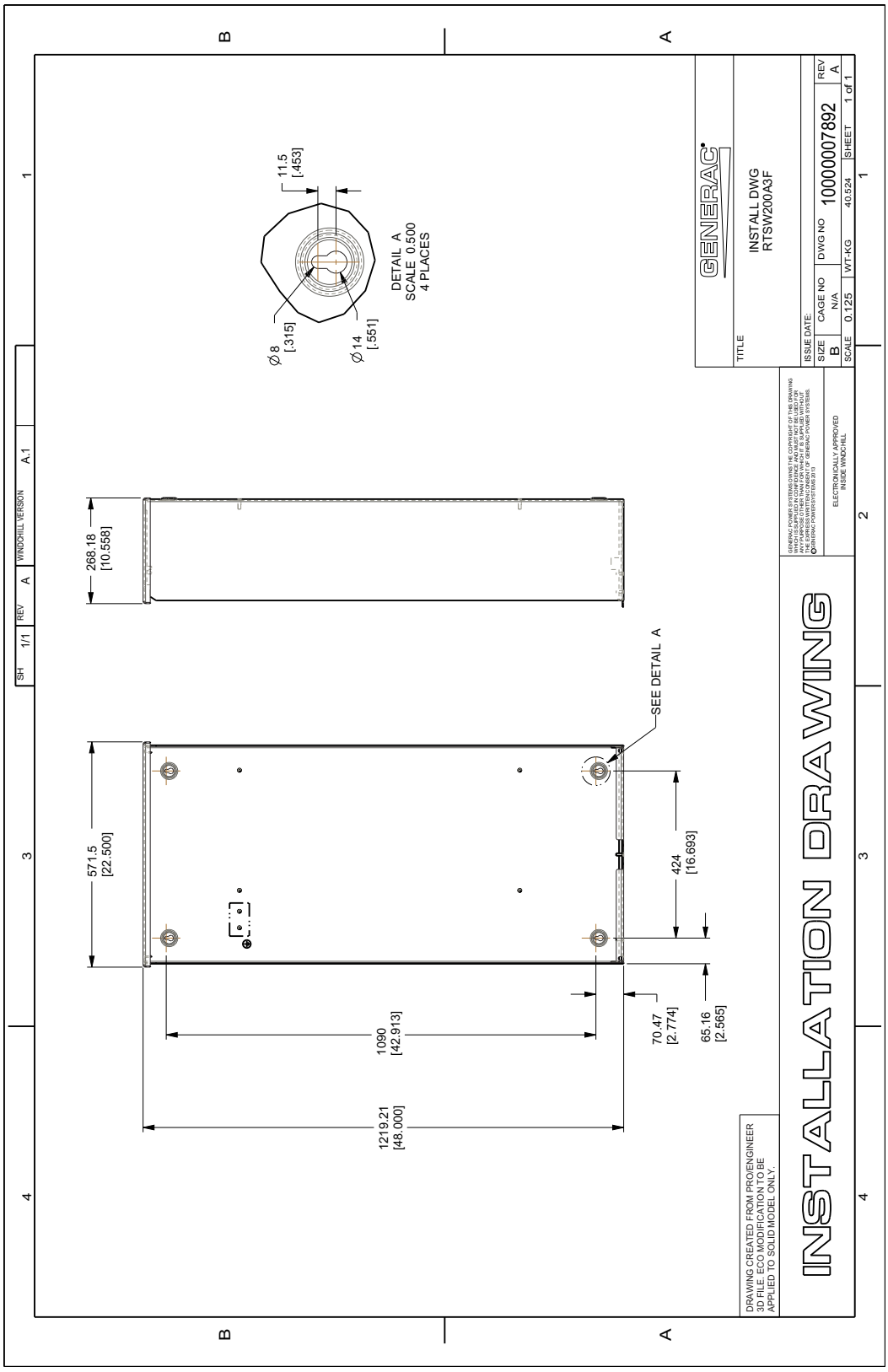
Use only Generac replacement fuses—part number 100000005117, rated 240 VAC, 6.3 Amps, 10,000 AIC.

Alternative fuses are Littelfuse® 021606.3MXHP or Optifuse® FCD-6.3.

Section 4: Drawings and Diagrams

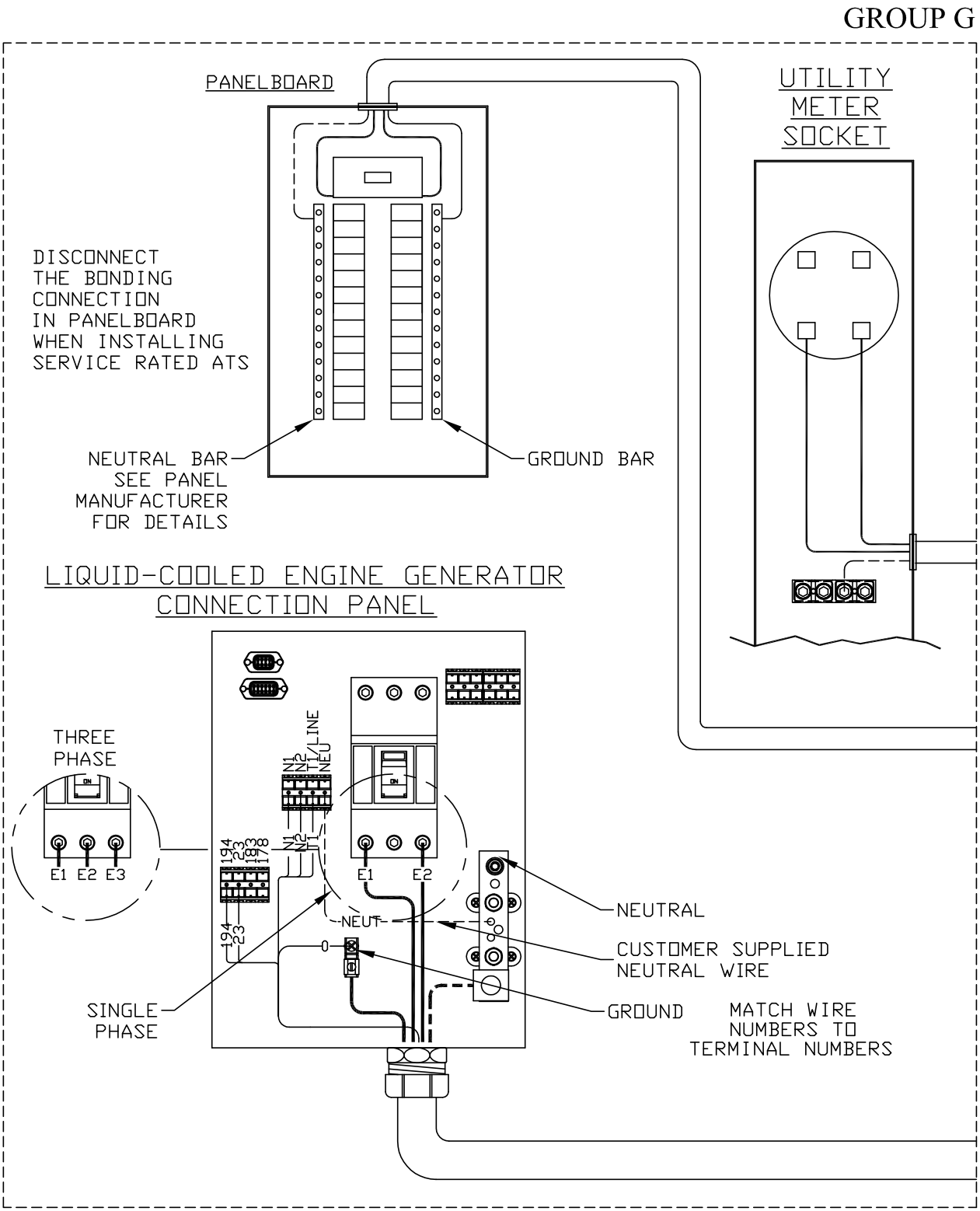
Installation Drawing

No. 10000007892



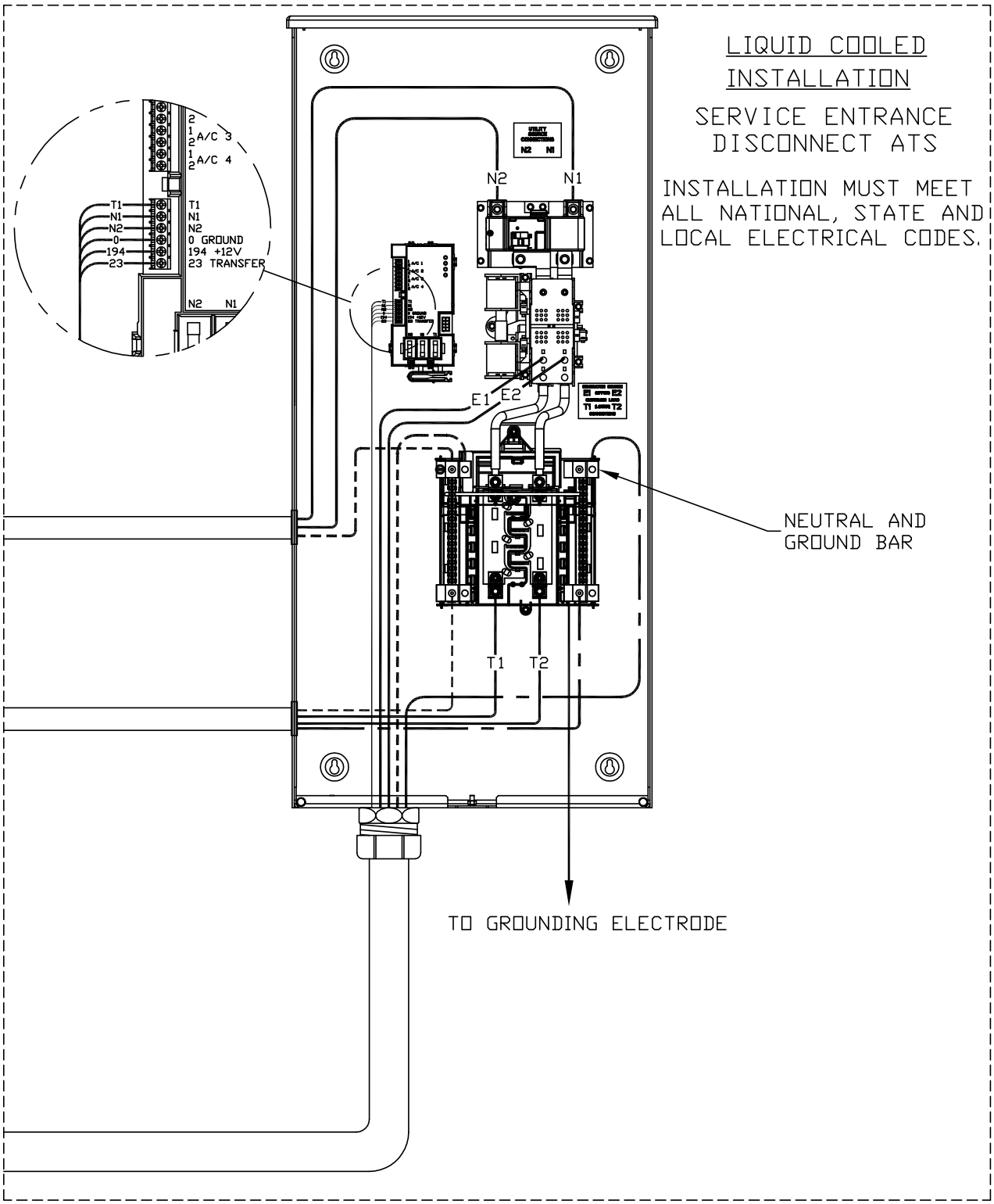
Interconnection Drawing

No. 10000017951—Sheet 1 of 4 (Liquid-Cooled Engine Generator)



No. 10000017951—Sheet 2 of 4 (Liquid-Cooled Engine Generator)

GROUP G



INTERCONNECTION DRAWING

RXSW200A3F

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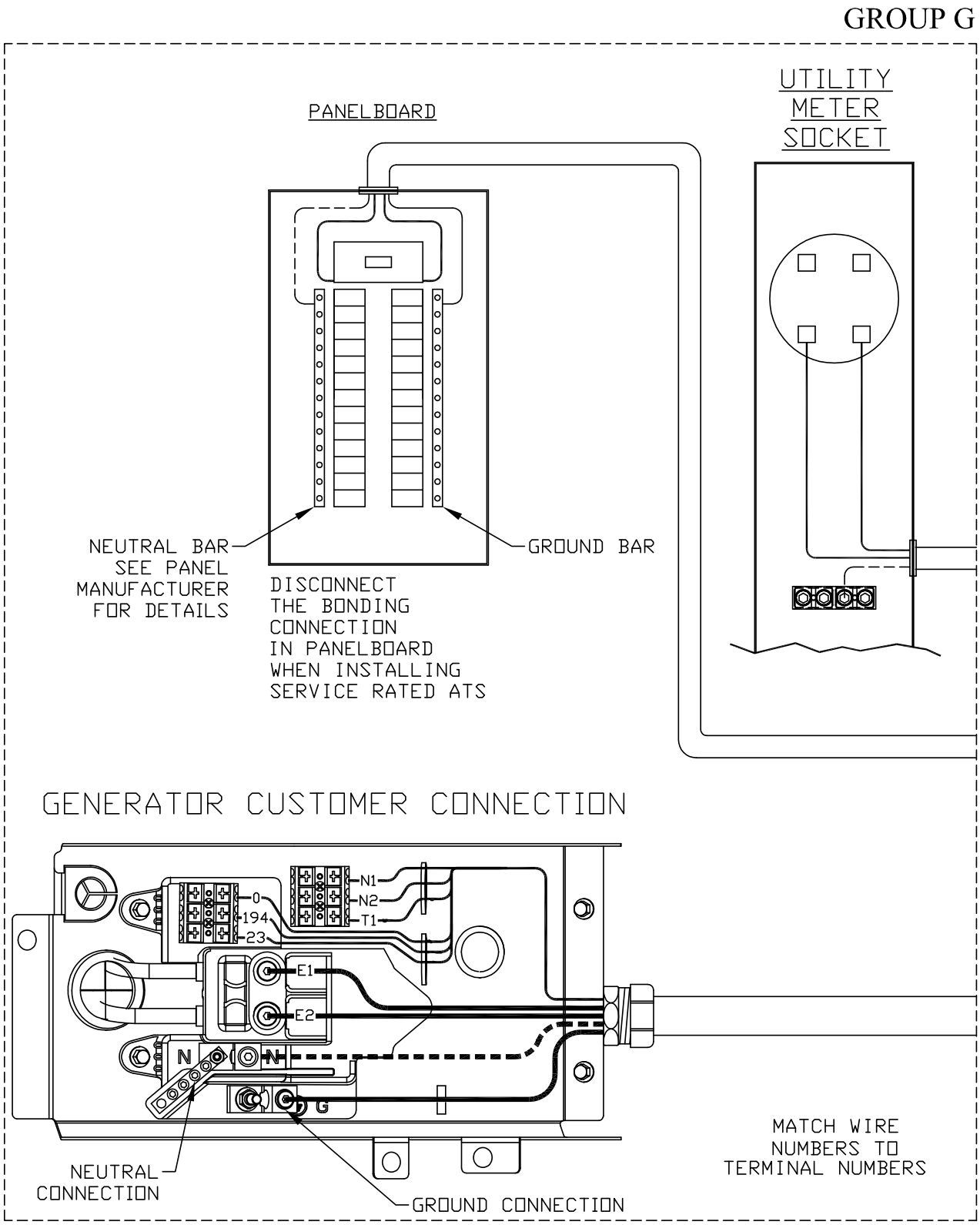
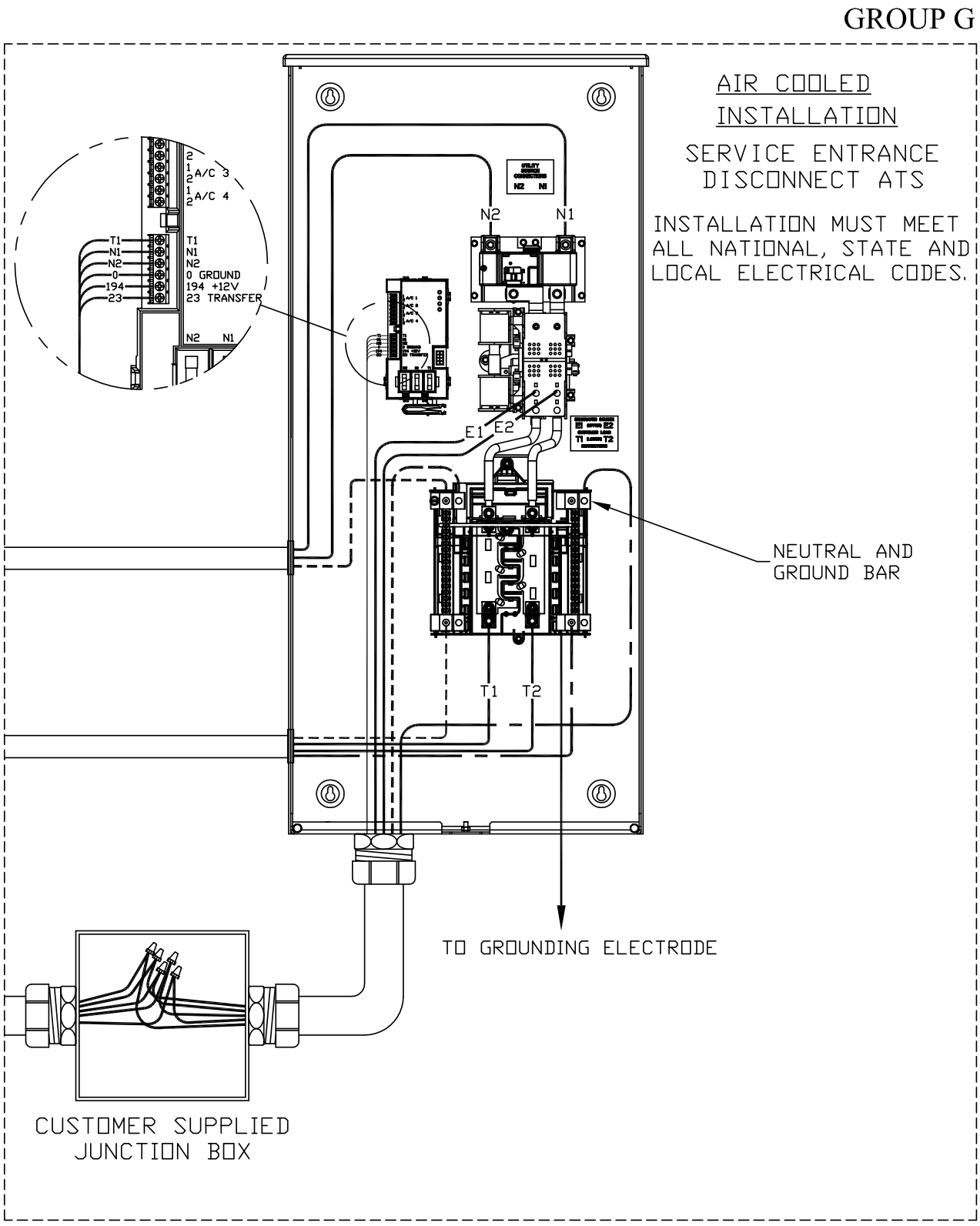
DRAWING #:10000017951

No. 10000017951—Sheet 3 of 4 (Air-Cooled Engine Generator)



No. 10000017951—Sheet 4 of 4 (Air-Cooled Engine Generator)



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