



## Installation Instructions

# Trane Rental Service

## Start-Up and Shutdown - RSGP0450F3 Generator



### SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.



# Introduction

Read this manual thoroughly before operating or servicing this unit.

## Warnings, Cautions, and Notices

Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:

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

**⚠ CAUTION** Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.

**NOTICE** Indicates a situation that could result in equipment or property-damage only accidents.

## Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants-including industry replacements for CFCs and HCFCs such as saturated or unsaturated HFCs and HCFCs.

## Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

### ⚠ WARNING

#### Proper Field Wiring and Grounding Required!

Failure to follow code could result in death or serious injury. All field wiring **MUST** be performed by qualified personnel. Improperly installed and grounded field wiring poses **FIRE** and **ELECTROCUTION** hazards. To avoid these hazards, you **MUST** follow requirements for field wiring installation and grounding as described in **NEC** and your local/state electrical codes.

### ⚠ WARNING

#### Personal Protective Equipment (PPE) Required!

Failure to wear proper PPE for the job being undertaken could result in death or serious injury. Technicians, in order to protect themselves from potential electrical, mechanical, and chemical hazards, **MUST** follow precautions in this manual and on the tags, stickers, and labels, as well as the instructions below:

- Before installing/servicing this unit, technicians **MUST** put on all PPE required for the work being undertaken (Examples; cut resistant gloves/sleeves, butyl gloves, safety glasses, hard hat/bump cap, fall protection, electrical PPE and arc flash clothing). **ALWAYS** refer to appropriate Safety Data Sheets (SDS) and OSHA guidelines for proper PPE.
- When working with or around hazardous chemicals, **ALWAYS** refer to the appropriate SDS and OSHA/ GHS (Global Harmonized System of Classification and Labeling of Chemicals) guidelines for information on allowable personal exposure levels, proper respiratory protection and handling instructions.
- If there is a risk of energized electrical contact, arc, or flash, technicians **MUST** put on all PPE in accordance with OSHA, NFPA 70E, or other country-specific requirements for arc flash protection, **PRIOR** to servicing the unit. **NEVER PERFORM ANY SWITCHING, DISCONNECTING, OR VOLTAGE TESTING WITHOUT PROPER ELECTRICAL PPE AND ARC FLASH CLOTHING. ENSURE ELECTRICAL METERS AND EQUIPMENT ARE PROPERLY RATED FOR INTENDED VOLTAGE.**

**⚠ WARNING****Follow EHS Policies!**

Failure to follow instructions below could result in death or serious injury.

- All Trane personnel must follow the company's Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, lockout/tagout, refrigerant handling, etc. Where local regulations are more stringent than these policies, those regulations supersede these policies.
- Non-Trane personnel should always follow local regulations.

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**Note:** *Replace Manual in Cabinet After Use!*



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# Graphical Display Panel

Figure 1. Graphical display panel



This control is provided with a graphical display capable of displaying up to 9 lines of data with approximately 27 characters per line. The graphical display is accompanied by a set of six tactile-feel membrane switches that are used by the operator to navigate through control menus and to make control adjustments. Display is configurable for multiple languages. It is configurable for units of measurement.

The display incorporates three levels of operation and adjustability. All data on the control can be viewed by scrolling through screens with the navigation keys. The top three lines of the display are allocated to mode and status messages that continuously display the operating mode of the control system, as well as any faults or warning conditions that may be present on the controller. If more than one fault or warning message is present, the messages will scroll to allow the operator to view all active messages in the system.



# Installation/Setup

1. Level the generator using appropriate cribbing and front leveling jacks. Wheels must be checked.

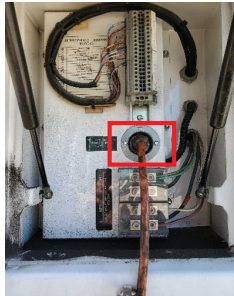
**Important:** Ensure the generator is grounded according to local code.

2. Lower ladder on front of the generator and make sure feet are evenly placed on the ground.

Remove the ladder from inside the rear door of generator and install on the driver side of the generator.



3. Plug in battery charger to 120 Vac power receptacle. Plug is located on passenger side of generator near the rear.



**Important:** When the generator is off and a 120 Vac receptacle is not available, the battery disconnect switch must be **OFF**.



**Note:** Battery disconnect switch is located inside the driver side door above batteries.

4. Locate camlock connections on passenger side of the generator.

5. Connect the cables to the generator and the load.

**Important:** Refer to local codes and regulations when determining size and number of cables required.



6. Verify all cables are correctly connected at both the generator and load.

7. Locate the battery disconnect switch on the drivers side of the engine and turn **ON**.

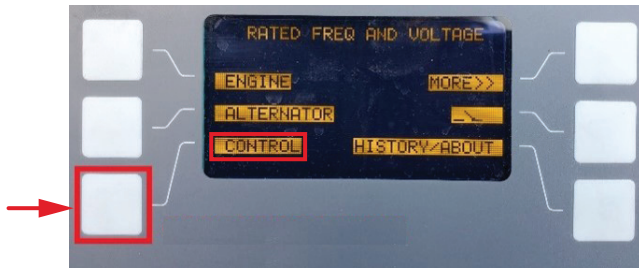


8. Locate generator controller behind access door on the passenger side of generator.

9. Press the **HOME** button.

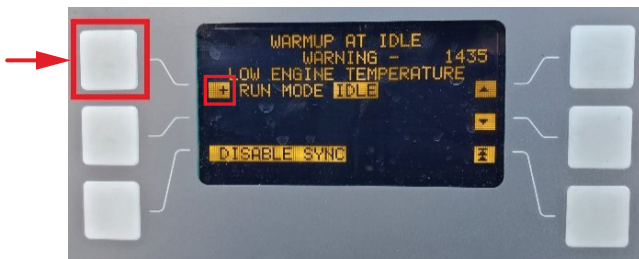


10. Press the **CONTROL** button.



11. If the generator is in **RUN MODE IDLE**, start the generator.

**Note:** If the generator is in **RUN MODE RATED**, press the (+) button to change to **RUN MODE IDLE**.



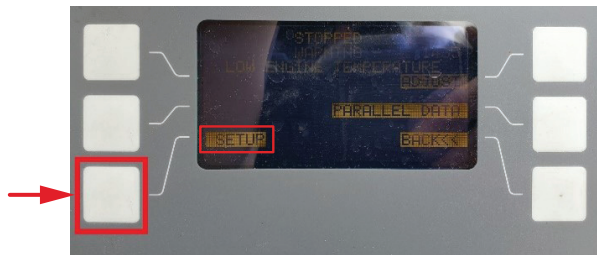
12. Press the **HOME** button to return to the main screen.

## Verify Generator Voltage

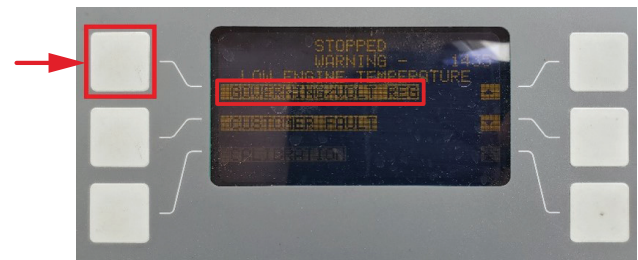
1. Press the **MORE** button.



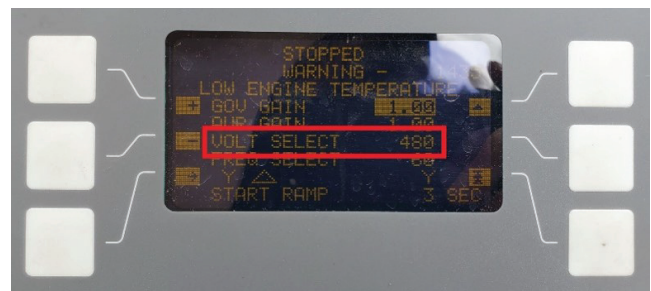
2. Press the **SETUP** button.



3. Press the **GOVERNING/VOLT REG** button.



4. Verify **VOLT SELECT** is set to the correct voltage (i.e. 480, 240, 208).



**Important:** If voltage is not correct, contact Trane Rental Services.

## Start-Up

1. Turn the control knob to **Manual**.



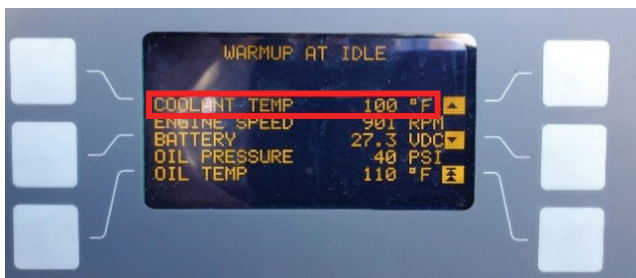
2. Press and hold **RUN/STOP**.



3. Press the **HOME** button to return to the main screen.
4. Press the **ENGINE** button to monitor the engine temperature.



**Important:** Monitor the screen until the engine temperature reaches 100°F or after five minutes, return to the main screen.



5. Repeat steps 8 to 12 above to place the generator in **RUN MODE RATED**.
6. Once the generator is running at rated speed, press breaker close button (⏏). The switch icon will change from open (⏏) to closed (⏏---).



The generator is now supplying power to the load.

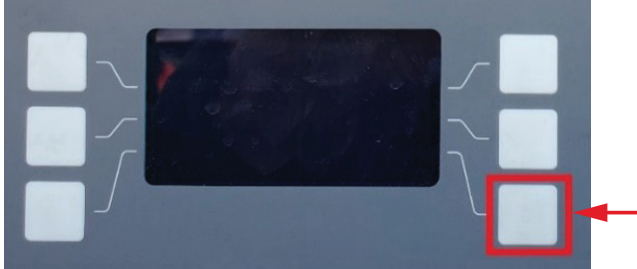


# Shutdown

Follow the manufacturer's instructions to shutdown all equipment powered by the generator.

**Important:** Verify there is no generator load.

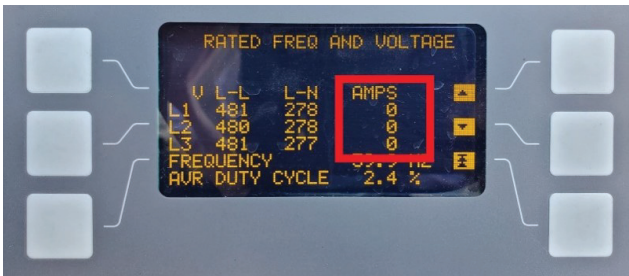
1. Press the **HOME** button.



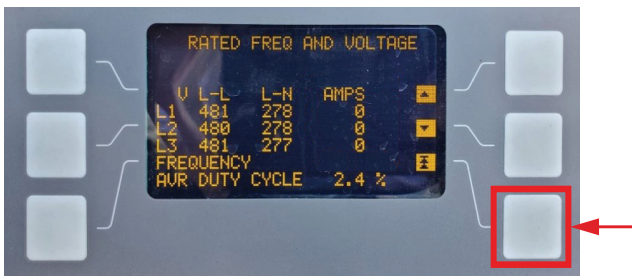
2. Press the **ALTERNATOR** button.



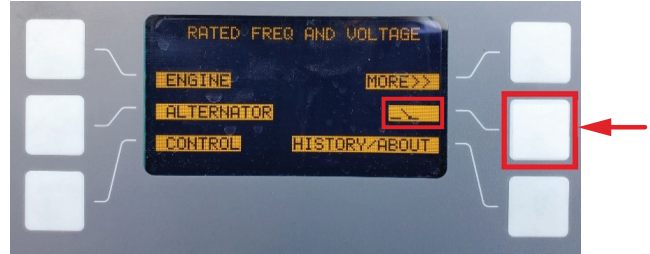
3. Verify amps columns are **0**.



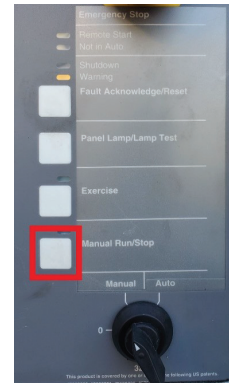
4. Press the **HOME** button.



5. Press the **BREAKER OPEN** button.



6. Press the **MANUAL RUN/STOP** button to shutdown the generator.

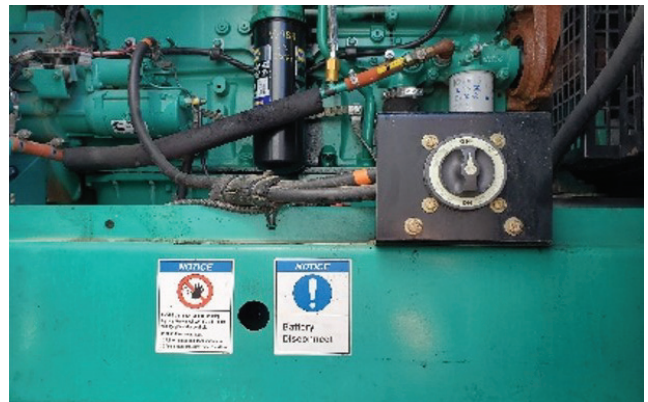


**Note:** Genset will enter cooldown mode and continue to run for 3-5 minutes.

7. Once engine stops, wait 60 seconds and turn the battery disconnect switch **OFF**.

Battery disconnect switch is located on the driver side of engine.

**Important:** If decommissioning this unit, continue to [Step 8](#).



8. Disconnect all cabling from the generator, main generator output cables, battery charger cable, and generator grounding cable.



## Shutdown

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9. Ensure all cable access doors are latched closed.
10. Disassemble/re-stow ladder and hand rail on rear door.

Re-stow ladder at the front of the generator.





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