Start-Up Instructions

Trane Rental Services

Clip On Generator
SG-5000

⚠ 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.

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Warnings, Cautions, and Notices

Read this manual thoroughly before operating or servicing this unit. 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.

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.

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⚠ 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/national 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.**

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⚠ 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.**

⚠ WARNING

Cancer and Reproductive Harm!

This product can expose you to chemicals including lead and bisphenol A (BPA), which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

⚠ WARNING

High Voltage!

Failure to follow instructions below could result in death or serious injury. Turn the unit ON/OFF switch OFF before connecting or disconnecting power. Disconnect the unit battery before replacing/repairing any unit component. Even when controller is off, one phase is still live. If the engine is running, it indicates high voltage.

NOTICE

Battery Damage!

Failure to follow instructions below could result in battery damage.

Set all controls to OFF before connecting or disconnecting the battery. When removing battery cables always disconnect negative cable first. When reconnecting battery cables connect negative cable last.

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⚠ CAUTION

High Pressure Systems!

Failure to follow instructions below could result in minor to moderate injury. Do not remove expansion tank cap while coolant is hot. Do not remove radiator cap while engine is hot. Wait for 10-15 minutes, after the engine stops, to open high pressure side of fuel system. Use paper or cardboard to check high pressure joints for leaks.

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System Requirements and Specifications

These start-up instructions are provided as a convenience only. Review all safety and warning labels prior to start-up. Consult the operations manual if there are questions.

Visual Inspection

The following inspections should be made before loading the container or trailer:

- **FUEL:** The diesel fuel supply must be sufficient to guarantee engine operation to the next check point.
- **Engine Oil:** Engine oil level should be at the full mark. Never overfill. The dipstick is attached to the filler cap.
- **Coolant:** Engine coolant must be above the add mark with antifreeze protection of -34°C (-30°F). Check and add coolant in the expansion tank.
- **Battery:** Terminals must be clean. Electrolyte should be at the full mark.
- **Electrical:** Electrical connections should be securely fastened. Check wires and terminals for corrosion, cracks or moisture. Repair or replace if necessary.
- **Structural:** Visually inspect the unit for leaks, loose or broken parts and other damage. The radiator coil should be clean and free of debris. Clean if necessary. Use an air or water spray jet directed against the coil from the air discharge side.
- **Mounting Bolts:** Check the mounting bolts on the unit and engine. Tighten if necessary.

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Starting The Unit

1. Plug the main container main power cable securely into the main power receptacle of the SG-5000 (Figure 2, p. 1).

Figure 1. Power connection between container and SG-5000



2. Turn the unit ON/OFF switch to ON. The switch is located below the controller.
3. The display will change several times during the start sequence.

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Figure 2. SG-5000 layout

1. SG+ controller
2. On-Off switch
3. Power receptacle
4. Fuel inlets
5. Fuel gauges
6. Clamp mounts
7. Pin mounts
8. Service access doors
9. Fork pockets



Post-Start Inspection

1. Listen for abnormal noises.
2. Use the Alarm List Menu to check for alarms or messages.

Note: *The engine must operate for approximately 2 minutes before power output is available.*

Functional Inspection

1. Start the unit.
2. Initiate an automatic PTI (Pre-Trip Inspection).
   a. Press enter/Escape to open the Main Menu.
   b. Scroll up/down to the Commands Menu.
   c. In the Commands Menu, select the PTI submenu and press Enter.
3. The controller initiates the PTI.
4. If successful, the PTI displays **Passed**.
5. Turn the controller OFF, then back ON, to reset it and resume normal operation.

Important: *Do not turn the container on during PTI.*

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Figure 3. PTI result



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