



THERMO KING

SG-5000

Driver guide



GENSET OVERVIEW

SG-5000 Clip-On

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



SG-5000 Undermount

1. SG+ controller
2. On-Off switch
3. Power receptacle
4. Fuel inlet
5. Fuel gauge
6. Service access door
7. Fork pockets



BASIC FUNCTIONS

Reefer connection

To connect the reefer plug the cable securely in to the power receptacle of the genset

Genset power up

Move the power switch to the On position.

Genset start sequence will automatically begin, including engine preheat if needed.

Once the engine has successfully started, power output will turn on automatically after two minutes.

Pre-Trip Inspection

To properly perform a PTI (Pretrip Inspection Test) on units equipped with a SG+ controller, do not apply a load to the alternator.

1. Start the unit.

2. Initiate an automatic PTI: Note: Correct all existing alarm conditions and clear the alarm codes before performing a PTI.

- Press the ENTER key or the ESCAPE key to enter the Main Menu, if necessary.
- Press the UP or DOWN key to scroll up or down through the Main Menu to the Commands Menu.

• Press the ENTER key to enter the Commands Menu.

• The PTI submenu will be displayed.

• Press the ENTER key to start the PTI.

3. The controller then performs the PTI. Observe the unit for proper operation and functions during the PTI. The display shows which component is being tested, and the test result (PASSED or FAILED):

4. When the PTI is complete, the test ends automatically and the controller display shows "PTI PASSED (or FAILED) - REBOOT". Turn the On/Off Switch Off and back On to reboot and return the unit to normal operation

Note: Acknowledge the alarms or messages ONLY after the alarm codes are documented and problems repaired.

Genset power down

Move the power switch to the Off position.

CONTROLLER OVERVIEW



1. Display

A vacuum lucent display on the front panel shows operating information including output voltage, current test state during a Pretrip test and the controller menu. Normally it shows the Output Voltage (this is called the Standard Display). It will be blank when the unit On/Off switch is OFF.

2. Escape key

Press this key to escape a new setting or jump to the parent menu.

3. Up key

Press this key to scroll UP through the menu display, or increase the value of a setting.

4. Down key

Press this key to scroll DOWN through the menu display, or decrease the value of a setting

5. Enter key

Press this key to enter or execute controller menu tasks or commands.

6. Alarm key

Press this key to go directly to the Alarm List Menu and view the alarm information in the display.

7. Alarm LED

Flashes when the controller has detected an alarm condition. It is off when there are no alarms

8. Power LED

Lights up while the Unit On/Off Switch is in the ON position. It is off when the Unit On/Off Switch is in the OFF position.

9. Language key

Press this key to change the language used on the display. English and Spanish are the languages that are currently available.

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Press this key to change the language used on the display. English and Spanish are the languages that are currently available.

11. On-Off switch

In the ON position, the electrical control system energizes for unit operation. In the OFF position, the electrical control system including the fuel solenoid de-energizes to stop the engine. The unit will not operate.

ALARM LIST MENU

Alarm list menu

The Alarm List Menu displays alarms. Alarms are recorded in the controller memory to simplify unit diagnostic procedures. The alarms are listed in the reverse order of their occurrence. The Alarm LED flashes if a shutdown alarm is present. Enter the Alarm List Menu to view the and acknowledge the alarms.

Displaying and Acknowledging Alarms

Enter the Alarm List Menu to view and acknowledge the alarms as follows:

1. Place the On/Off switch in the "ON" position.
2. Press the ALARM key to enter the Alarm List Menu directly. Or Enter the Alarm List Menu through the Main Menu as follows:
 - Press the ENTER key or the ESCAPE key to enter the Main Menu, if necessary.
 - Press the UP or DOWN key to scroll up or down through the Main Menu to the Alarm List Menu.
 - Press the ENTER key to enter the Alarm List Menu.
3. The Alarm List Menu will appear on the display. It shows the most recent alarm and the following information:
 - The alarm code (100 through 604).
 - The position of the alarm in the list of recorded alarms. For example, 1/2 means alarm one of two.
 - The alarm text.
 - The alarm status (Active or Acknowledged).
 - Write down the alarm code and the alarm text.
4. Write down the alarm code and the alarm text.
5. Press the ENTER key to acknowledge the alarm. The Alarm LED will continue flashing until the active alarms (and messages) have been acknowledged.
6. Press the DOWN key to scroll down to the next alarm, if necessary.
7. Write down the alarm code and the alarm text.
8. Press the ENTER key to acknowledge the alarm.
9. Repeat steps 6 through 8 until all active alarms have been written down and acknowledged.
10. Press the ESCAPE key to return to the Main Menu.

Note: Acknowledge the alarms or messages ONLY after the alarm codes are documented and problems repaired.