

STANLEY®

Model Numbers ST-70-SS-E / ST-70T-SS-E / ST-125-OFR-E



This product is not suitable for primary heating purposes.

CONSUMER: READ AND SAVE THESE INSTRUCTIONS

⚠ DANGER **GENERAL HAZARD WARNING:**
READ AND UNDERSTAND ALL OF THE INSTRUCTIONS IN THIS MANUAL BEFORE ASSEMBLING, STARTING, OR SERVICING THE HEATER. Be sure to comply with the instructions and warnings provided with this heater. Failure to comply can result in fire or explosion that can cause property loss, bodily injury, or loss of life. Only persons who can follow and understand these instructions should operate or service this heater. If you need heater info; such as an operating manual, labels, etcetera, contact the manufacturer.

⚠ DANGER **NOT FOR USE IN RESIDENTIAL LIVING AREAS OR IN ENCLOSED SPACES WITHOUT ADEQUATE VENTILATION. FOR OUTDOOR USE. INDOOR USE PERMITTED ONLY FOR: THE TEMPORARY HEATING OF ADEQUATELY VENTILATED BUILDINGS OR STRUCTURES UNDER CONSTRUCTION, ALTERATION OR REPAIR.** This is an unvented portable heater that uses air (Oxygen) from within the area in which it is used. Failure to provide adequate combustion and ventilation air will result in asphyxiation, carbon monoxide poisoning, bodily injury or death. Refer to "Ventilation" on Page 8.

NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR WHILE CONNECTED TO A POWER SOURCE

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Safety Information

▲WARNING **FIRE, BURN, INHALATION AND EXPLOSION HAZARD.** Keep combustibles such as; building materials, paper or cardboard a safe distance away from the heater as recommended by these instructions. Never use the heater in spaces which contain products such as; gasoline, solvents, paint thinners, dust particles, volatile or airborne combustibles or any unknown chemicals. This is an unvented portable heater. It uses air (Oxygen) from the area in which it is used. Adequate combustion and ventilation air must be provided. Refer to "Ventilation" on page 6. Bulk fuel storage should be a minimum of 25 feet / 7.6 meters from heater.

▲WARNING **DO NOT OPERATE THIS HEATER UNTIL YOU HAVE READ AND THOROUGHLY UNDERSTAND THESE SAFETY AND OPERATING INSTRUCTIONS.**
Failure to comply with the precautions and instructions provided with this heater can result in death, serious bodily injury, property loss or damage from the hazards of fire, soot production, explosions, burns, asphyxiation or carbon monoxide poisoning. Only persons who can read and understand these instructions should use or service this heater.

▲WARNING **DO NOT START THE HEATER WHEN EXCESS OIL HAS ACCUMULATED.**

▲WARNING **DO NOT START THE HEATER WHEN THE CHAMBER IS HOT.**

THE INSTALLATION OF THIS HEATER SHALL COMPLY WITH THE REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION.

This appliance should not be used by children 16 years and younger and persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge even if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

i **Look for this icon throughout the manual for helpful tips on how to assemble, use and clean your OFR/SS Heater.**



Read The Instruction manual: When this symbol is marked on a product, it means that the instruction manual must be read.



WARNING! Never touch heater until heater has cooled off.

NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR WHILE CONNECTED TO A POWER SOURCE

Safety Information

▲ WARNING RISK OF INDOOR AIR POLLUTION!

The products described in this manual are Paraffin/Diesel direct-fired, forced air heaters. Paraffin/Diesel forced air heaters are primarily intended for use for temporary heating of buildings under construction, alteration or repair. Direct-fired means that all of the combustion products of the heater enter the heated space. This appliance is rated at 98% combustion efficiency, but does produce small amounts of carbon monoxide.

▲ WARNING CARBON MONOXIDE POISONING MAY LEAD TO DEATH!

Carbon monoxide is toxic. Humans can tolerate only small amounts of carbon monoxide and so precautions should be taken to provide proper ventilation. Failure to provide proper ventilation in accordance with the instructions in this manual can result in death.

People with breathing problems should consult a physician before using this heater.

Early signs of carbon monoxide poisoning resemble the flu. Symptoms of improper ventilation / carbon monoxide poisoning are:

**Headache • Dizziness • Nausea • Dry Mouth
Sore Throat • Burning of Nose and Eyes**

If you experience any of these symptoms: **GET FRESH AIR AT ONCE!** Have your heater serviced and check for proper ventilation. Some people are more affected by carbon monoxide than others. These include: pregnant women, those with heart or lung problems, anemia or those under the influence of alcohol or at high altitudes.

FOR OUTDOOR USE. INDOOR USE PERMITTED ONLY FOR: The temporary heating of adequately ventilated buildings or structures under construction, alteration or repair! Provide at least 2,800 sq. cm (3 sq. ft.) opening of outside air for every 29 kW(100,000 Btu/Hr) heater rating. Refer to “Ventilation” on page 8 for further instructions.

▲ WARNING RISK OF ELECTRIC SHOCK!

ALWAYS use only the electrical power (voltage and frequency) specified on the model plate of the heater.

ALWAYS use only three-prong, grounded outlet and extension cord.

ALWAYS use only 14 AWG or better extension cord.

ALWAYS unplug the heater when not in use.

ALWAYS install the heater so that it is not directly exposed to water spray, rain, dripping water, or wind.

NEVER use fuels such as gasoline, benzene, paint

▲ WARNING RISK OF BURNS, FIRE AND EXPLOSION!

thinners or other oil compounds in this heater.

NEVER refill the heater’s fuel tank while the heater is operating or still hot. This heater is **EXTREMELY HOT** while in operation.

NEVER block air outlet (front).

NEVER use duct work in front of heater.

NEVER move or handle heater while still hot.

NEVER transport heater with fuel in tank.

NEVER use with an external fuel tank. Keep all combustible materials away from this heater.

▲ WARNING CAUTION! HOT WHILE IN OPERATION. DO NOT TOUCH. KEEP CHILDREN, ANIMALS, CLOTHING AND COMBUSTIBLES AWAY FROM HEATER.

Minimum Clearance From Combustibles		
	ST-70-SS-E / ST-70T-SS-E	ST-125-OFR-E
Top	1.2 m	1.2 m
Sides	1.2 m	1.2 m
Front	2.4 m	2.4 m

ALWAYS locate heater on a stable and level surface.

If your heater is equipped with a thermostat, once it is plugged in, it can start at anytime in accordance with the thermostat setting.

NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR WHILE CONNECTED TO A POWER SOURCE

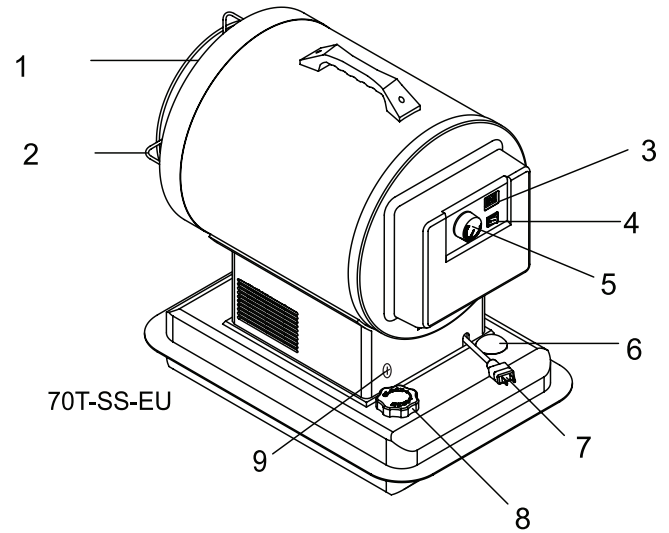
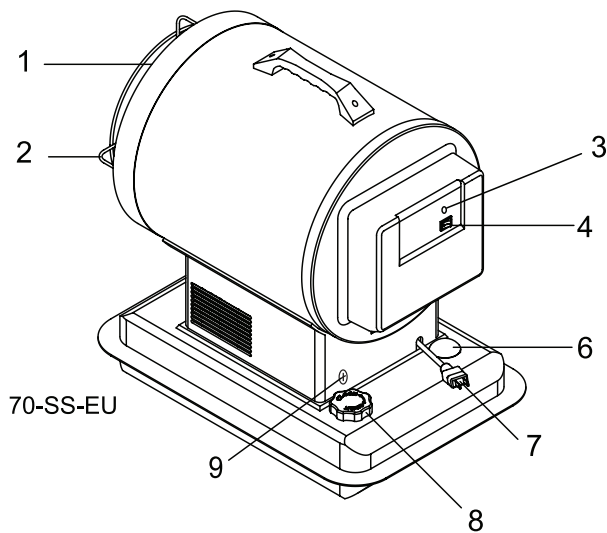
Specifications

Model #	ST-70-SS-E / ST-70T-SS-E	ST-125-OFR-E
Rating: kW	20,5	36,6
Fuel Consumption: L/Hr	1,9	3.2
Fuel Tank Capacity: L	15,1	53
Max Operating Hours	8	20
Volts: AC/Hz	230VAC / 50Hz	230VAC / 50Hz
Heating Area m ²	186	290

Specifications subject to change without notice.

Features

ST-70-SS-E / ST-70T-SS-E



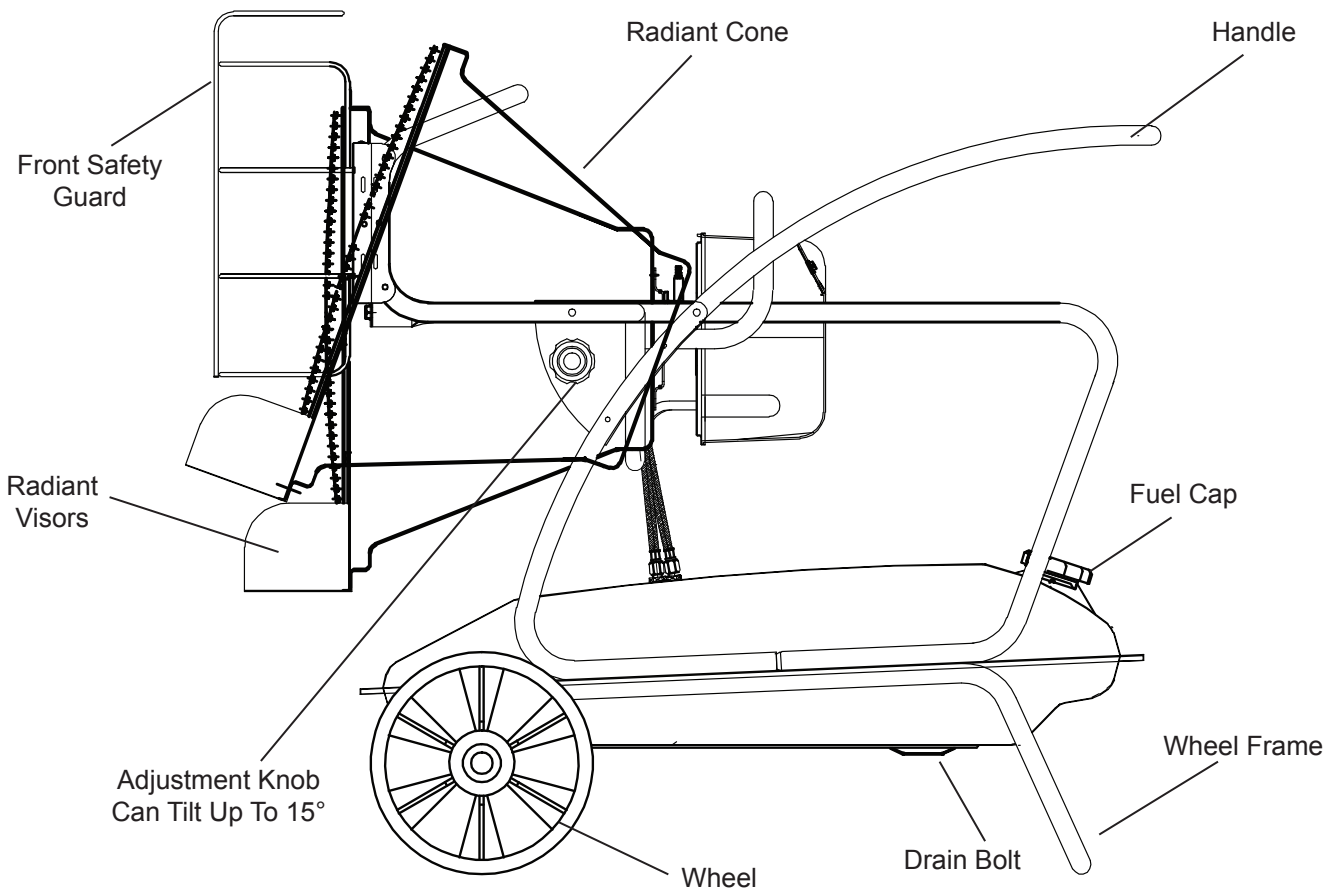
1. HEAT PLATE
2. SAFETY GUARD
3. LAMP
4. OPERATING SWITCH
5. THERMOSTAT KNOB
6. FUEL GAUGE
7. POWER CORD
8. FUEL CAP
9. AIR ADJUSTMENT SCREW

Figure 1

**NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR
WHILE CONNECTED TO A POWER SOURCE**

Features

ST-125-OFR-E



NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR WHILE CONNECTED TO A POWER SOURCE

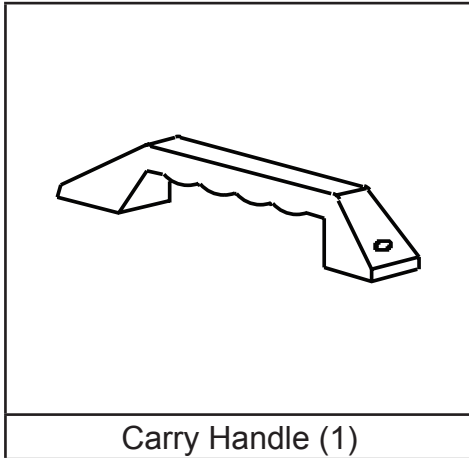
Assembly Instructions

ST-70-SS-E / ST-70T-SS-E

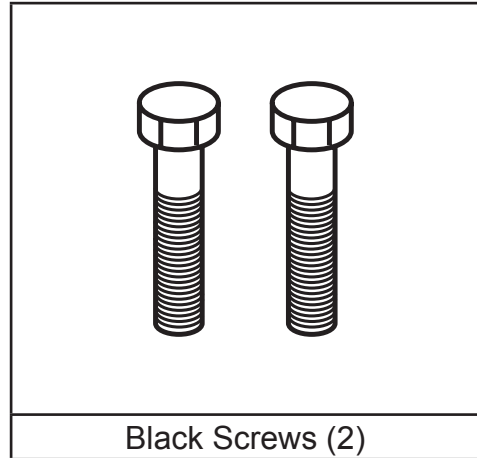
- Remove the heater and all packaging materials from the shipping carton.

Note: Save the box and packaging materials for future storage.

What's In The Box



Carry Handle (1)



Black Screws (2)

Carry Handle Assembly

1. Align holes in the upper housing with the 2 holes in the handle as shown in Figure 2.
2. Insert screws and tighten firmly.

Tools Needed:

- Phillips Head Screw Driver

i **Attach the handle while still in the box for easier unpacking. (See Figure 3)**

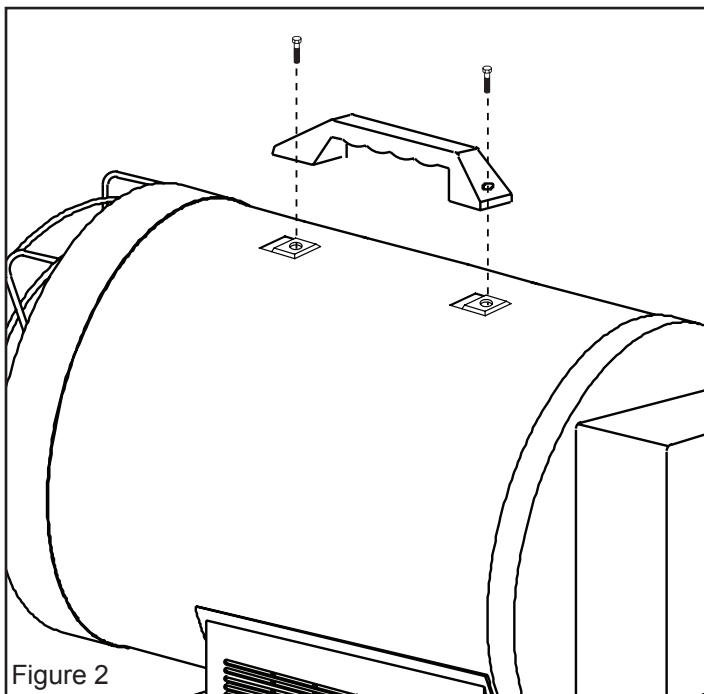


Figure 2

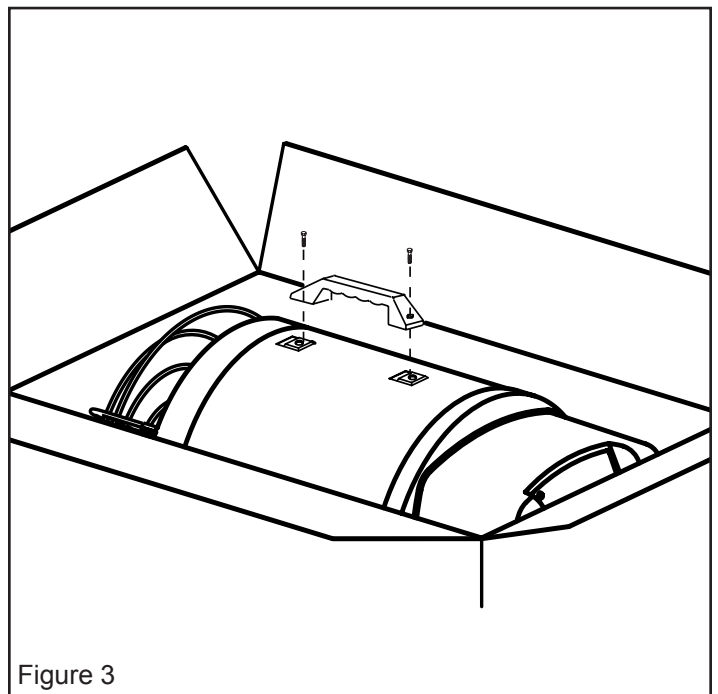


Figure 3

NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR WHILE CONNECTED TO A POWER SOURCE

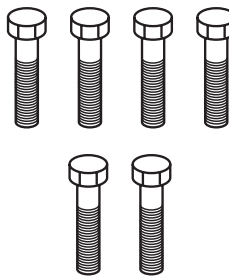
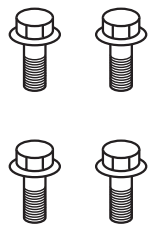
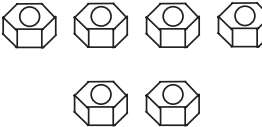
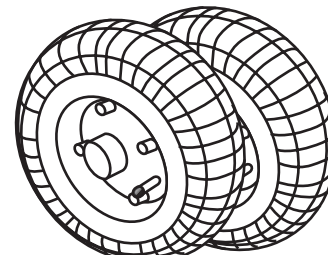
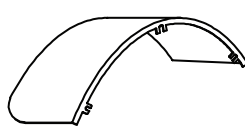
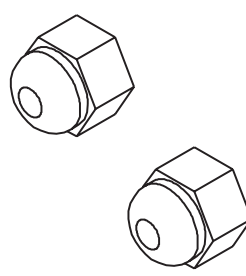

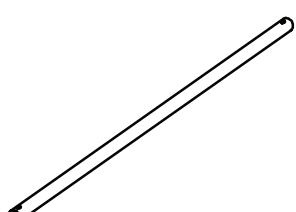
Assembly Instructions

ST-125-OFR-E

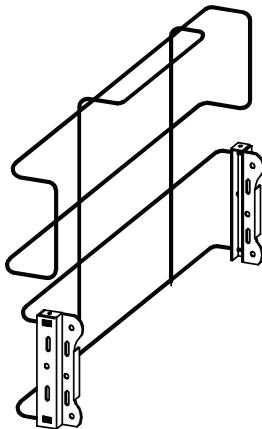
- Remove the heater and all packaging materials from the shipping carton.

Note: Save the box and packaging materials for future storage.

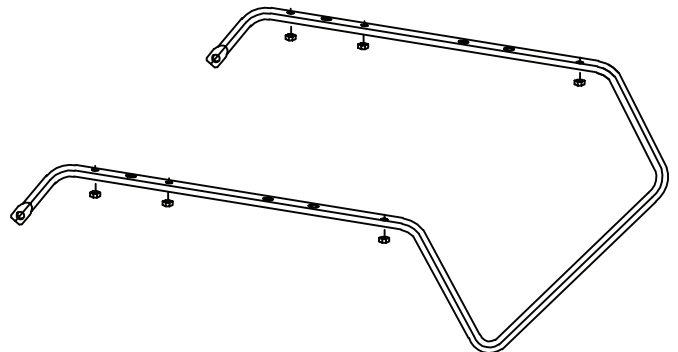
What's In The Box

			
<p>Long Screws (6)</p>	<p>Short Screws (4)</p>	<p>8 mm Nuts (6)</p>	<p>Tires (2)</p>
			
<p>Visor (1)</p>	<p>19 mm Axle Nuts (2)</p>	<p>Spacers (2) Washers (2)</p>	<p>Axle (1)</p>

Safety Guards (Top, Front)



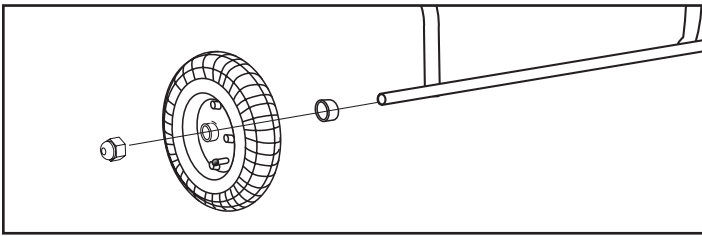
Wheel Frame



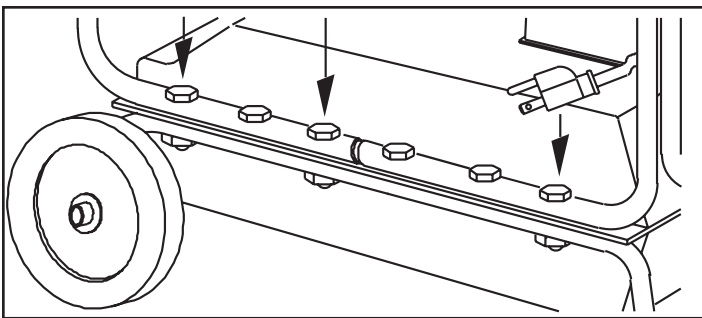
NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR WHILE CONNECTED TO A POWER SOURCE

Assembly

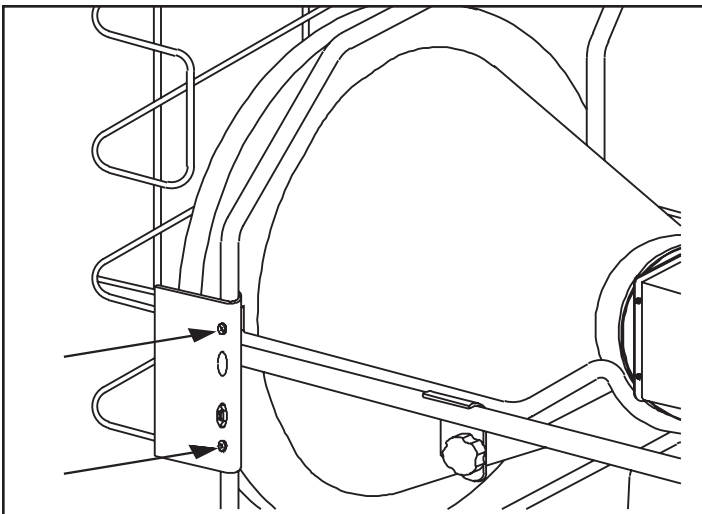
1. Slide axle through Wheel Frame and attach wheels, washers and nuts.



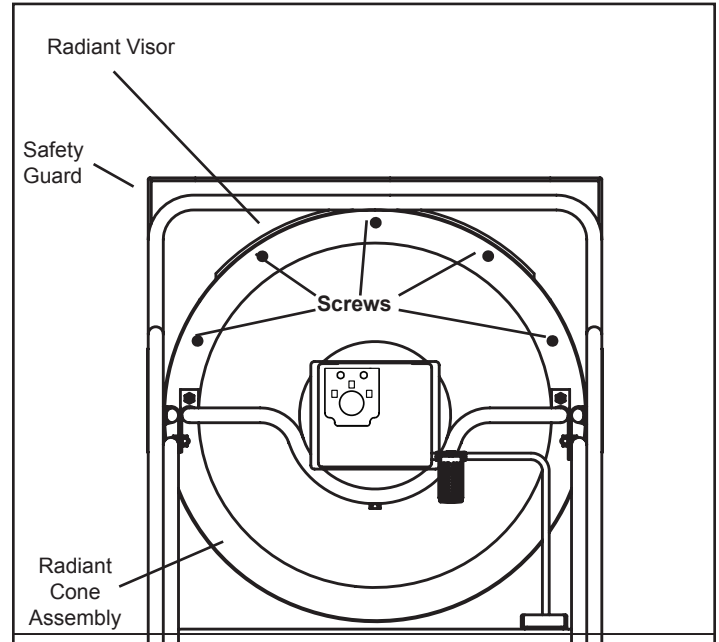
2. Place main structure on wheel frame and fasten with long screws provided.



3. Attach safety guard to front of heater with screws provided.



4. Attach Radiant Visors to the top and bottom rear of the Radiant Cone Assembly using extra screws included.



5. Attach top safety guard using the two outer-most extra screws on the top of the radiant cone (See photo).

Note: Save the box and packaging materials for future storage.

NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR WHILE CONNECTED TO A POWER SOURCE

Operation

Fueling The Heater:

Paraffin

For optimal performance of this heater, it is strongly suggested that Paraffin be used. Paraffin has been refined to virtually eliminate contaminants, such as sulfur, which can cause a rotten egg odor during the operation of the heater. Using diesel fuel can cause excess soot production. Do not use Bio-Diesel or Farm “red” diesel as this fuel will damage your heater’s seals and filter.

Factory tested for use with paraffin, no. 1 & no.2 diesel, JP8/Jet A Fuel, no. 1 and no. 2 fuel oil.

NOTE: Paraffin should only be stored in a blue container that is clearly marked “Paraffin.” Never store Paraffin in a red container. Red is associated with gasoline.

Ventilation:

- **Risk of indoor air pollution and Carbon Monoxide Poisoning. Use heater only in well ventilated areas.**
- **Refer to Safety Information on pages 1-2 for information about Carbon Monoxide Poisoning.**
- **ALWAYS** provide a fresh air opening in the heated space of at least 2,800 square centimeters (3 sq. ft) for each 29 kW (100,000 Btu / Hr.) of heater output. Provide a larger opening if more heaters are being used.

⚠ DANGER NEVER REFUEL THIS HEATER WHILE IT IS HOT OR OPERATING. FIRE OR EXPLOSION COULD RESULT.

⚠ CAUTION NEVER FILL THE FUEL TANK INDOORS. ALWAYS FILL THE TANK OUTDOORS. BE SURE THAT THE HEATER IS ON LEVEL GROUND WHEN FUELING, AND NEVER OVERFILL THE TANK.

⚠ WARNING DO NOT USE GASOLINE OR CRANKCASE DRAININGS.

⚠ DANGER CARBON MONOXIDE POISONING MAY LEAD TO DEATH!

⚠ WARNING This appliance is designed to operate safely at a minimum ambient temperature of -20° C.

⚠ WARNING Use caution when servicing in wet areas. Disconnect power from the power mains and keep all electrical components from becoming wet. Only a qualified technician should service the heater

⚠ WARNING A qualified technician is required to install, adjust and where necessary; convert this heater for use with other fuel types.

- NEVER use fuel such as, benzene, alcohol, white gas, camp stove fuel, paint thinners, or other oil compounds in this heater. THESE ARE VOLATILE FUELS THAT CAN CAUSE A FIRE OR EXPLOSION.
- NEVER store Paraffin in the living space. Paraffin should be stored in a well ventilated area outside the living area.
- NEVER store Paraffin in direct sunlight or near a source of heat.
- NEVER use Paraffin that has been stored from one season to the next. Paraffin deteriorates over time. OLD Paraffin WILL NOT BURN PROPERLY IN THIS HEATER.

Minimum Ventilation Opening Needed	
ST-70-SS-E / ST-70T-SS-E	ST-125-OFR-E
1950 cm ²	3484 cm ²

NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR WHILE CONNECTED TO A POWER SOURCE

Operation: ST-70-SS-E / ST-70T-SS-E / ST-125-OFR-E

Starting the Heater: (Ignition)

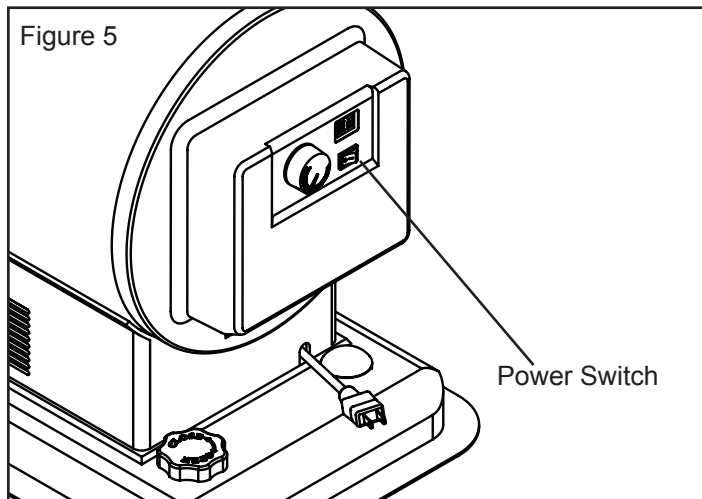
1. Fill the tank with Paraffin or other approved fuel until needle on fuel gauge points to "F".
2. Replace fuel cap and tighten firmly.

NOTE: On first ignition or after refueling, you may hear a grinding sound just before ignition. This is the fuel pump removing the air from the fuel line. Your heater will start up within seconds. If it does not start repeat start-up procedures with fuel gauge reading at least 1/2 tank.

NOTE: Smoking may occur on first ignition.

NOTE: The electrical components of these heaters are protected by a fuse mounted in the PC board. If the heater fails to ignite, check this fuse first and replace if necessary. Also check the power source to be sure the proper voltage is being provided to the heater.

1. Complete steps 1-3 above.
2. Push the power switch to the "ON" position. The power indicator lamp will light and heater will ignite. (See Figure 5)



Stopping the Heater: (Cool Down)

1. Turn the power switch to the "OFF" position. Combustion will stop and the Cooling Cycle will begin.
 - ST-70-SS-E / ST-70T-SS-E: approx. 7 mins
 - ST-125-OFR-E: approx 3 mins

When the Cooling Cycle is complete the fan will stop running and it will be safe to unplug the heater.

NOTE: Unplugging the heater before the Cooling Cycle has been completed may cause overheating, possible damage to the heater and heat plate.

Restarting the Heater:

1. Wait ten seconds after Cooling Cycle has been completed.
2. Follow all start-up procedures above.

⚠ WARNING DO NOT disconnect heater from power source before cooling cycle has been completed.

NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR WHILE CONNECTED TO A POWER SOURCE

Maintenance: ST-70-SS-E / ST-70T-SS-E / ST-125-OFR-E

Long Term Storage:

1. Unscrew the fuel cap.
2. Using an approved siphon, remove the Paraffin or diesel.
3. Using a small amount of Paraffin or diesel, rinse and swirl the fuel inside the fuel tank

NOTE: NEVER MIX WATER WITH FUEL. It will cause rust inside the tank.

4. Empty the tank completely.

IMPORTANT: Never store leftover Paraffin between seasons, using old fuel can damage heater.

Store Heater in a dry, well ventilated area.

- Be sure that the storage area is free of dust and corrosive vapors. Repack the heater in the original packaging and keep user's manual in an easily accessible place.

Service:

DO NOT TAMPER WITH THE UNIT. HAVE AN EXPERIENCED SERVICEMAN MAKE ANY NECESSARY ADJUSTMENT OR REPAIRS.

⚠ WARNING Never service heater while it is plugged in or hot!

We suggest following a maintenance schedule as follows:

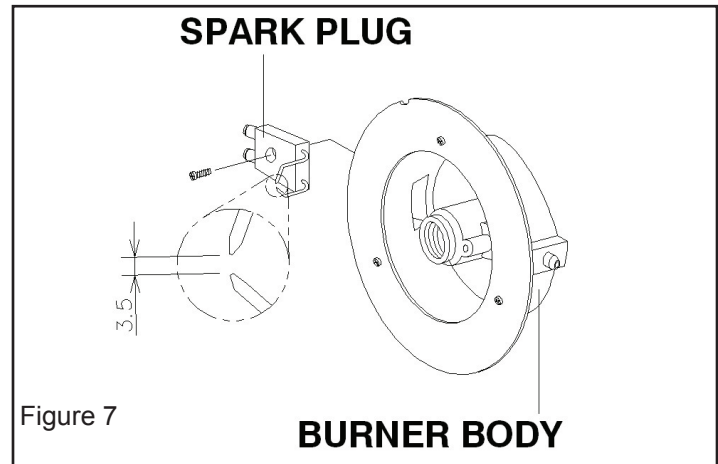
FUEL / FUEL TANK:

Flush tank every 200 hours of operation or as needed. DO NOT flush with water, use fresh Paraffin only.

i TIP: Follow the long term storage instructions to flush the tank.

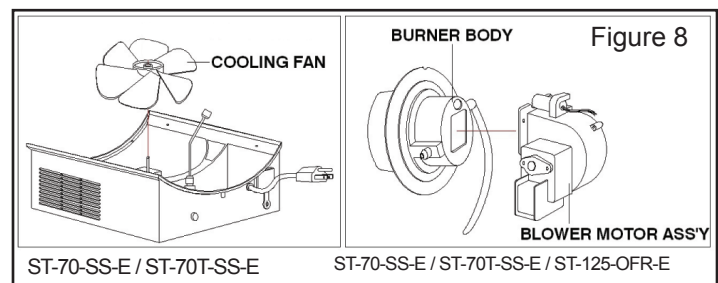
SPARK PLUG:

Clean and re-gap every 600 hours of operation or replace as needed. After removing the Spark Plug, clean the terminals with a wire brush. Re-gap the terminals to 0.140" (3.5mm). (See Figure 7)



FAN BLADES:

The fan blades should be cleaned at least once per heating season, depending on conditions. Remove all accumulated dust and dirt with a burst of condensed air. (See Figure 8)



PRESSURE ADJUSTMENTS:

Proper pressure is dependent on the fuel type the unit will be running. When smoking or non-ignition occurs, remove the lower panel. Locate the brass screw on the fuel pump to the left of the fuel line.

If you are experiencing smoking or fuel dripping from the unit, turn the screw clockwise 1/8 to 1/4 of a turn to increase the fuel pressure until the unit is operating properly.

If you are experiencing extended flames from the front of the unit, turn the screw 1/8 to 1/4 of a turn counterclockwise to reduce the air pressure until the unit is operating properly.

NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR WHILE CONNECTED TO A POWER SOURCE

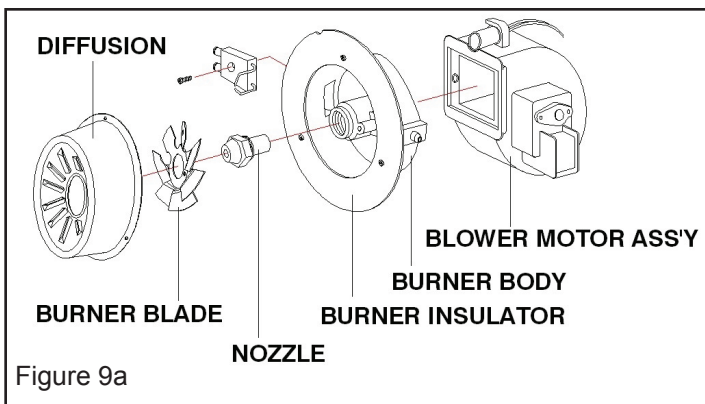
Maintenance: ST-70-SS-E / ST-70T-SS-E / ST-125-OFR-E

Service (Continued):

NOZZLES:

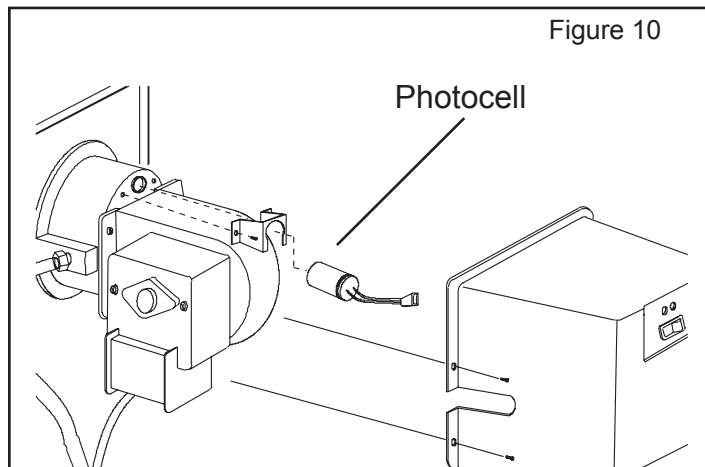
Nozzles should be cleaned or replaced at least once per heating season. Contaminated fuel could make this necessary immediately. To clean dirt from nozzle, blow compressed air through nozzle front. It may be necessary to soak nozzle in clean Paraffin or diesel to help loosen any particles. (See Figure 9)

ST-70-SS-E / ST-70T-SS-E Nozzle

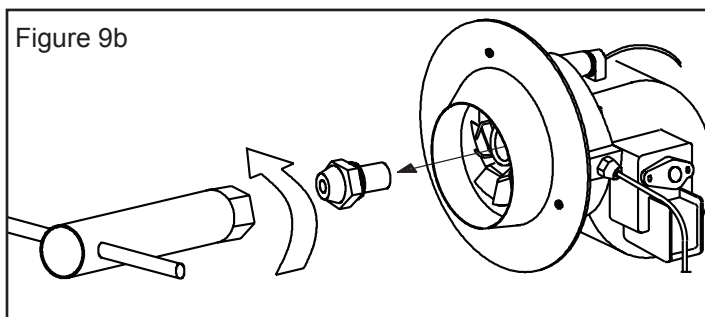


PHOTOCELL:

The photocell should be cleaned at least once per heating season or more depending on conditions. Use a cotton swab and water or alcohol to clean the lens of the photocell. Be certain to reinstall the photocell in proper position as shown below. (See Figure 10)

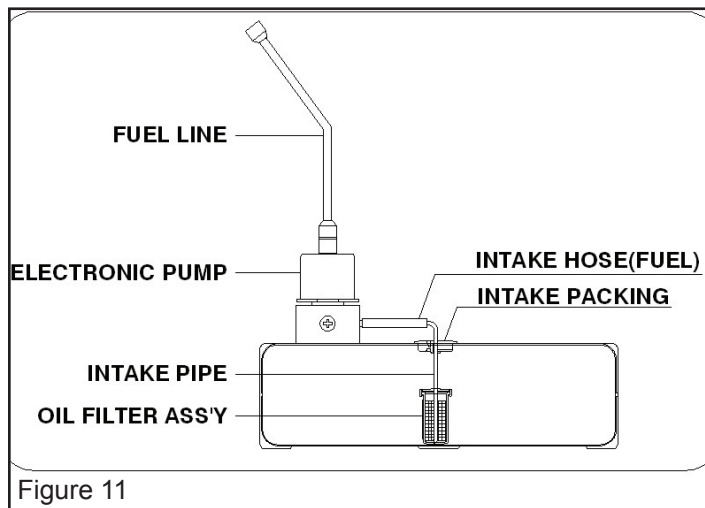


ST-125-OFR-E Nozzle



FILTERS:

The fuel filter and oil filter should be cleaned at least twice per heating season by rinsing it in clean Paraffin or diesel. Contaminated or old fuel could make cleaning necessary immediately. (See Figure 11)



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WHILE CONNECTED TO A POWER SOURCE**

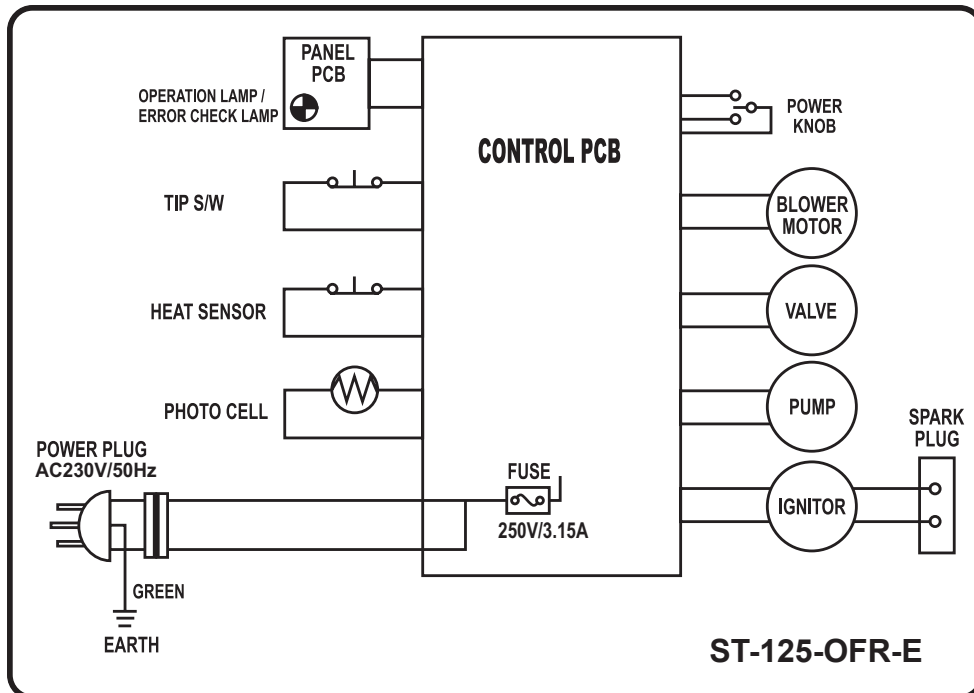
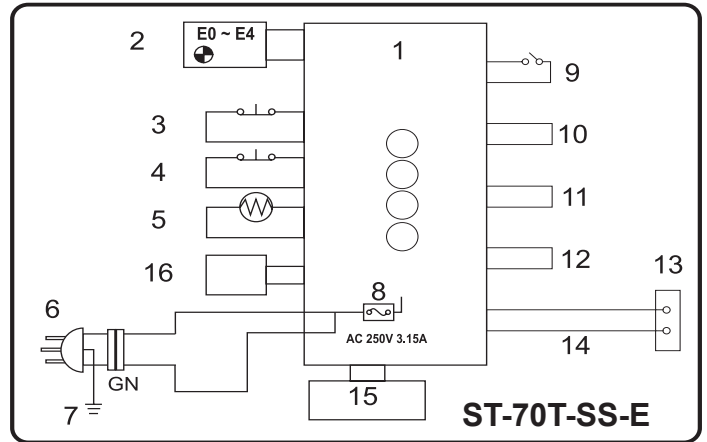
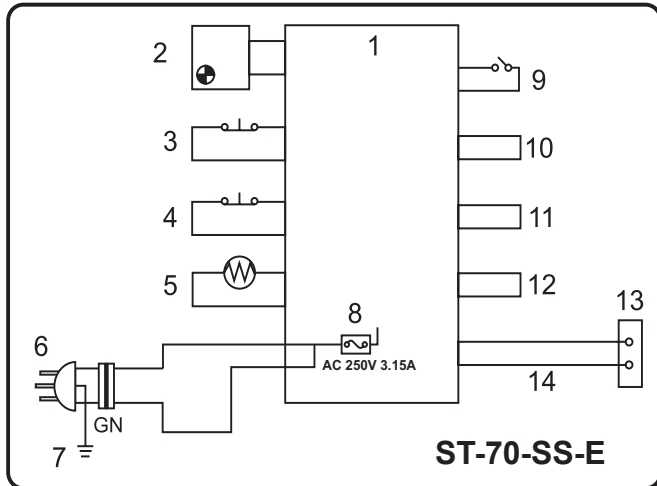
Troubleshooting Guide: ST-70-SS-E / ST-70T-SS-E / ST-125-OFR-E

Problem	Possible Cause	Solution
Heater fires, but shuts down after a short period of time. Lamp is flickering, and LED display shows "E1"	<ol style="list-style-type: none"> 1. Dirty Fuel Filter. 2. Nozzle Dirty. 3. Photocell Dirty. 4. Photocell not installed properly. 5. Photocell Defective . 6. Improper electrical connection between Circuit Board and Photocell. 7. Cooling Fan is obstructed 8. Improper pressure. 	<ol style="list-style-type: none"> 1. Clean/replace Fuel Filter. 2. Clean/replace Nozzle 3. Clean/replace Photocell . 4. Adjust Photocell position. 5. Replace Photocell. 6. Check wiring connections (See Wiring Diagrams, Page 11). 7. Check to be sure cooling fan is not obstructed. 8. Adjust pump pressure.
Heater will not operate, or motor runs for short time. Lamp flickers and LED display shows "E1"	<ol style="list-style-type: none"> 1. No Paraffin/diesel in fuel tank. 2. Corroded Spark Plug or incorrect plug gap. 3. Dirty Fuel Filter. 4. Dirty Nozzle. 5. Moisture in Fuel/Fuel Tank. 6. Improper electrical connection between Transformer and Circuit Board. 7. Transformer Wires not connected to Spark Plug. 8. Defective Transformer. 	<ol style="list-style-type: none"> 1. Fill tank with fresh Paraffin/diesel. 2. Clean/replace Spark Plug. 3. Clean/replace Fuel Filter. 4. Clean/replace Nozzle. 5. Rinse out fuel tank with clean fresh Paraffin/diesel. 6. Inspect all electrical connections. (See Wiring Diagrams, Page 11). 7. Re-attach Transformer wires to Spark Plug. 8. Replace Transformer.
Fan does not operate when heater is plugged in and Operating Switch is in the "ON" position. The lamp is flickering or on and LED display shows "E1" or "E2"	<ol style="list-style-type: none"> 1. Broken electrical connection between Circuit Board and motor. 2. Not enough amps available to power heater. 	<ol style="list-style-type: none"> 1. Inspect all electrical connections on Wiring Diagrams (Page 11). 2. Use a new extension cord or try another electrical socket.
Heater makes grinding noise.	<ol style="list-style-type: none"> 1. Air in fuel pump. 	<ol style="list-style-type: none"> 1. Sound will stop after 3 seconds. If grinding sound continues, add fuel to tank.
Heater does not turn on and the lamp is not lit.	<ol style="list-style-type: none"> 1. Temperature limit sensor has overheated. 2. No electrical power. 3. Fuse break down. 4. Improper electrical connection between Temperature Limit Sensor and Circuit Board. 	<ol style="list-style-type: none"> 1. Push Operating Switch to "OFF" and allow heater to cool for 5 minutes. Push Operating Switch back to "ON". 2. Check power cord and extension cord to insure of proper connection. Test power supply. 3. Check/replace Fuse. 4. Inspect all electrical connections. (See Wiring Diagrams, Page 11).
Poor combustion and / or soot production.	<ol style="list-style-type: none"> 1. Pump Pressure. 2. Poor fuel quality. 	<ol style="list-style-type: none"> 1. Be sure pump pressure is adjusted correctly. 2. Be sure Paraffin/diesel is not old or contaminated.
Lamp is flickering, and LED display shows "E0".	<ol style="list-style-type: none"> 1. Faulty Tip Over Switch. 	<ol style="list-style-type: none"> 1. Replace Tip Over Switch.

NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR WHILE CONNECTED TO A POWER SOURCE

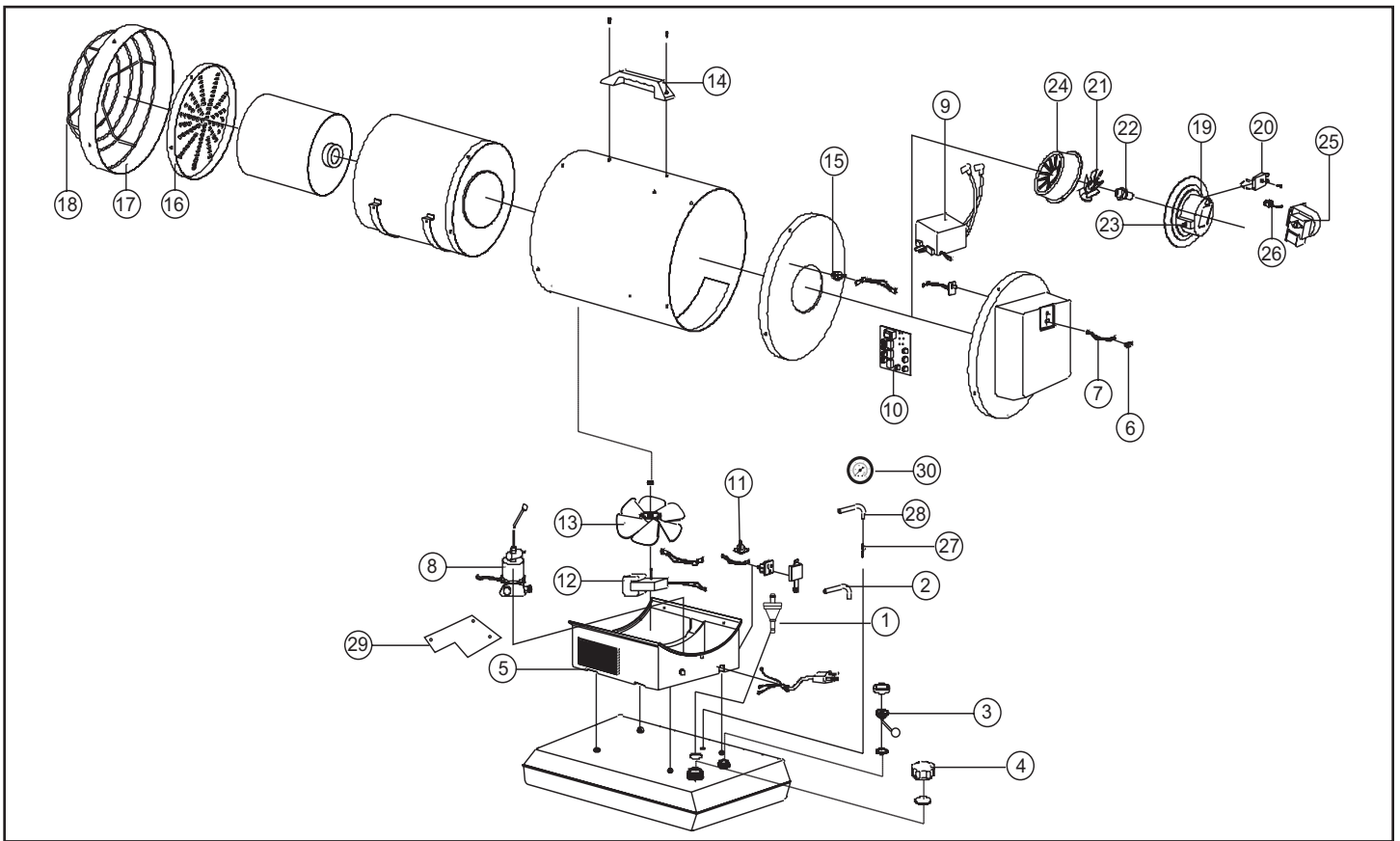
Wiring Diagrams

- | | | | |
|-----------|----------------------|---------------------|------------------------|
| GB | 1. PANEL PCB | 7. EARTH | 13. SPARK PLUG |
| | 2. OPERATION LAMP | 8. FUSE | 14. IGNITOR |
| | 3. TIP SWITCH | 9. OPERATING SWITCH | 15. TEMPERATURE SENSOR |
| | 4. HIGH LIMIT SWITCH | 10. BLOWER MOTOR | 16. THERMISTOR |
| | 5. PHOTOCELL | 11. COOLING MOTOR | GN. GREEN |
| | 6. POWER PLUG | 12. PUMP | |



NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR WHILE CONNECTED TO A POWER SOURCE

Exploded View
ST-70-SS-E

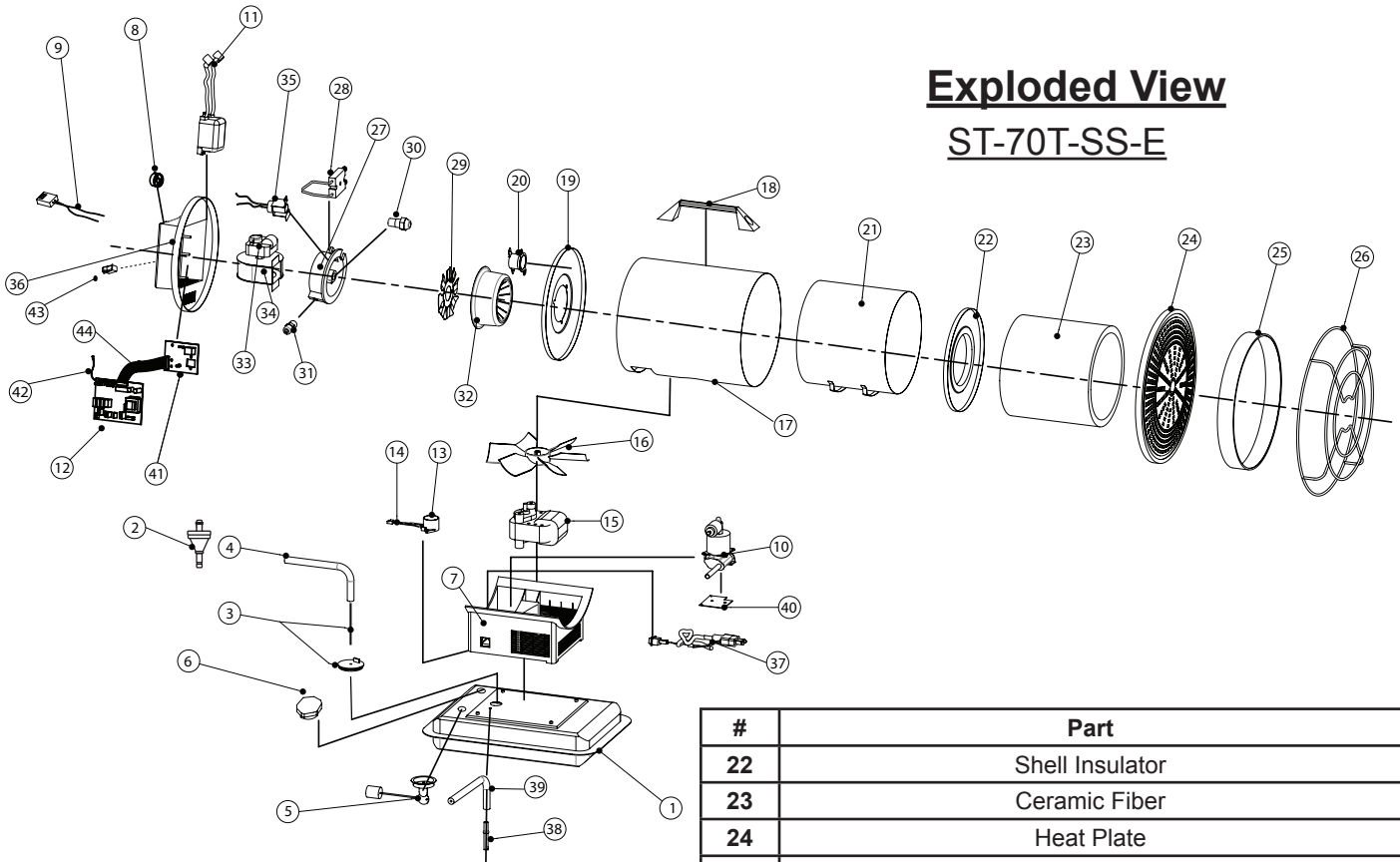


Parts List

1	Fuel Filter	16	Heat Plate
2	Fuel Line	17	Shell Ring
3	Fuel Gauge	18	Safety Guard
4	Fuel Cap	19	Burner Body
5	Cooling Fan Housing / Cooling Fan Housing Panel	20	Spark Plug
6	Operating Switch	21	Burner Blade
7	Operating Switch Wire	22	Nozzle
8	Electric Pump	23	Nipple
9	Ignitor	24	Diffusion Cap
10	Main PCB Assembly	25	Blower Motor Assembly
11	Tip-Over Sensor	26	Photocell
12	Cooling Motor Assembly	27	Return Pipe
13	Cooling Fan	28	Return Hose
14	Handle	29	Electronic Pump Bracket
15	Temperature Limit Switch	30	Fuel Pressure Gauge

NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR WHILE CONNECTED TO A POWER SOURCE

Exploded View
ST-70T-SS-E



Parts List

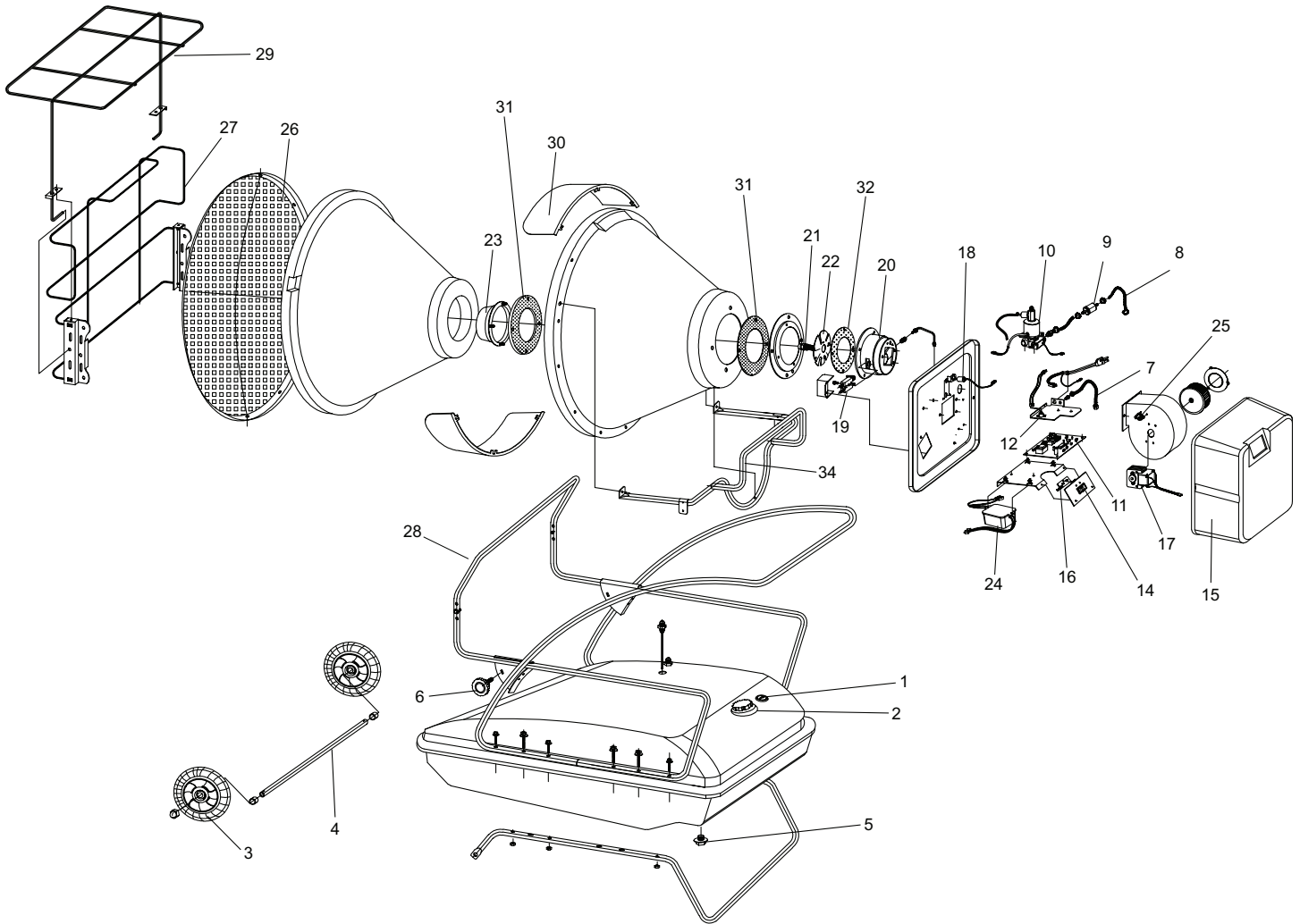
#	Part
1	Fuel Tank Assembly
2	Fuel Filter
3	Fuel Pipe Assembly
4	Fuel Hose
5	Fuel Gauge
6	Fuel cap
7	Cooling Fan Housing
8	Control Knob
9	Power Switch wire Assembly
10	Electronic Pump
11	Igniter
12	Main PCB with Thermostat
13	Tip Over Sensor
14	Tip over Sensor Wire Assembly
15	Motor
16	Plastic Fan Blade
17	Outer Shell
18	Handle
19	Burner Body Supporter
20	Temperature Limit Control
21	Chamber Insulator

#	Part
22	Shell Insulator
23	Ceramic Fiber
24	Heat Plate
25	Shell Ring
26	Safety Guard
27	Burner Body
28	Spark Plug
29	Burner Blade
30	Nozzle
31	Nipple
32	Diffusion cap
33	Blower Motor
34	Blower Housing / Air Guide / Blower Wheel (internal parts)
35	Photocell
36	Back Cover
37	Power Cord
38	Return Pipe
39	Return Hose
40	Pump Bracket
41	Display PCB
42	Thermistor
43	Power Switch
44	PCB cable
-	Back Panel (not shown)
-	Pump Connector (not shown)
-	Inlet Tube Assembly (not shown)
-	Hose Clamp (not shown)

**NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR
WHILE CONNECTED TO A POWER SOURCE**

Exploded View

ST-125-OFR-E



**NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR
WHILE CONNECTED TO A POWER SOURCE**

Parts List: ST-125-OFR-E

1	Fuel Filter
2	Fuel Cap
3	Wheel
4	Axle
5	Drain Bolt
6	Height Adjustment Knob
7	Return Fuel Line
8	Intake Fuel Line
9	Fuel Filter Assembly
10	Fuel Pump
11	Main PCB and Fuse
12	Tip Over Sensor
13	Power Cord
14	Power Switch
15	Back Cover
16	Panel Sub-PCB
17	Blower Motor Assembly
18	Photocell
19	Spark Plug
20	Burner Body
21	Nozzle
22	Burner Blade
23	Diffusion Cap
24	Ignitor
25	Temperature Overheat Sensor
26	Heat Plate
27	Safety Guard
28	Front Frame
29	Top Safety Guard
30	Radiant Visors
31	Radiant Cone Gaskets
32	Burner Housing Assembly

**NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR
WHILE CONNECTED TO A POWER SOURCE**

Information requirements for liquid fuel local space heaters

Model(s): ST-70-SS-E							
Indirect heating functionality: No							
Direct heat output: 20,5 (kW)							
Indirect heat output: N/A (kW)							
Fuel	Diesel/Paraffin			Space heating emissions (*)			
				NOx			
Select fuel type	Liquid			126.94 mg/kWh			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Heat output				Useful efficiency (NCV)			
Nominal heat output	P _{nom}	20,5	kW	Useful efficiency at nominal heat output	$\eta_{th,nom}$	100	%
Minimum heat output (indicative)	P _{min}	N/A	kW	Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	N/A	%
Auxiliary electricity consumption				Type of heat output/room temperature control (select one)			
At nominal heat output	e _{lmax}	0,087	kW	single stage heat output, no room temperature control	Yes		
At minimum heat output	e _{lmin}	N/A	kW	two or more manual stages, no room temperature control	No		
In standby mode	e _{lSB}	N/A	kW	with mechanic thermostat room temperature control	No		
				with electronic room temperature control	No		
				with electronic room temperature control plus day timer	No		
				With electronic room temperature control plus week timer	No		
				Other control options (multiple selections possible)			
				room temperature control, with presence detection	No		
				room temperature control, with open window detection	No		
				with distance control option	No		
				with adaptive start control	No		
				with working time limitation	No		
				with black bulb sensor	No		
Permanent pilot flame power requirement							
Pilot flame power requirement (if applicable)	P _{pilot}	N/A	kW				
Contact details	Obelis S.A Bd. General Wahis, 53 1030 Brussels, Belgium						
(*) NOx = nitrogen oxides							

This product is not suitable for main heating purposes.

**NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR
WHILE CONNECTED TO A POWER SOURCE**

Information requirements for liquid fuel local space heaters

Model(s): ST-70T-SS-E							
Indirect heating functionality: No							
Direct heat output: 20,5 (kW)							
Indirect heat output: N/A (kW)							
Fuel	Diesel/Paraffin			Space heating emissions (*)			
Select fuel type	Liquid			NOx 126.94 mg/kWh			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Heat output				Useful efficiency (NCV)			
Nominal heat output	P _{nom}	20,5	kW	Useful efficiency at nominal heat output	$\eta_{th,nom}$	100	%
Minimum heat output (indicative)	P _{min}	N/A	kW	Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	N/A	%
Auxiliary electricity consumption				Type of heat output/room temperature control (select one)			
At nominal heat output	e _{lmax}	0,087	kW	single stage heat output, no room temperature control	No		
At minimum heat output	e _{lmin}	N/A	kW	two or more manual stages, no room temperature control	No		
In standby mode	e _{lSB}	N/A	kW	with mechanic thermostat room temperature control	Yes		
				with electronic room temperature control	No		
				with electronic room temperature control plus day timer	No		
				With electronic room temperature control plus week timer	No		
				Other control options (multiple selections possible)			
				room temperature control, with presence detection	No		
				room temperature control, with open window detection	No		
				with distance control option	No		
				with adaptive start control	No		
				with working time limitation	No		
				with black bulb sensor	No		
Permanent pilot flame power requirement							
Pilot flame power requirement (if applicable)	P _{pilot}	N/A	kW				
Contact details	Obelis S.A Bd. General Wahis, 53 1030 Brussels, Belgium						
(*) NOx = nitrogen oxides							

This product is not suitable for main heating purposes.

**NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR
WHILE CONNECTED TO A POWER SOURCE**

Information requirements for liquid fuel local space heaters

Model(s): ST-125-OFR-E							
Indirect heating functionality: No							
Direct heat output: 36,6 (kW)							
Indirect heat output: N/A (kW)							
Fuel	Diesel/Paraffin			Space heating emissions (*)			
Select fuel type	Liquid			NOx 118,2 mg/kWh			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Heat output				Useful efficiency (NCV)			
Nominal heat output	P _{nom}	36,6	kW	Useful efficiency at nominal heat output	$\eta_{th,nom}$	100	%
Minimum heat output (indicative)	P _{min}	27,8	kW	Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	N/A	%
Auxiliary electricity consumption				Type of heat output/room temperature control (select one)			
At nominal heat output	e _{lmax}	0,084	kW	single stage heat output, no room temperature control	No		
At minimum heat output	e _{lmin}	0,075	kW	two or more manual stages, no room temperature control	Yes		
In standby mode	e _{lSB}	N/A	kW	with mechanic thermostat room temperature control	No		
				with electronic room temperature control	No		
				with electronic room temperature control plus day timer	No		
				With electronic room temperature control plus week timer	No		
				Other control options (multiple selections possible)			
				room temperature control, with presence detection	No		
				room temperature control, with open window detection	No		
				with distance control option	No		
				with adaptive start control	No		
				with working time limitation	No		
				with black bulb sensor	No		
Permanent pilot flame power requirement							
Pilot flame power requirement (if applicable)	P _{pilot}	N/A	kW				
Contact details	Obelis S.A Bd. General Wahis, 53 1030 Brussels, Belgium						
(*) NOx = nitrogen oxides							

This product is not suitable for main heating purposes.

**NEVER LEAVE HEATER UNATTENDED WHILE BURNING OR
WHILE CONNECTED TO A POWER SOURCE**

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