

Jefferson®

PROFESSIONAL TOOLS & EQUIPMENT

INFERNO

Portable Space Heater



JEFHTSPC060 • JEFHTSPC105 • JEFHTSPC150

User Manual

v.1.2



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Important: Please read all these instructions before operating this product and save these instructions. This manual has been compiled by Jefferson Tools and is an integrated part of the product with which it's enclosed and should be kept with it for the future reference.

This manual describes the purpose for which the product has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation or, before performing any kind of adjustment to the product and prior to any maintenance tasks. By following all the general safety instructions contained in this manual you will help to ensure operator safety and extend the potential lifespan of the equipment.

All photographs and drawings in this manual are supplied by Jefferson Tools to help illustrate the operation of the product. Whilst every effort has been made to ensure accuracy of information contained in this manual our policy of continuous improvement determines the right to make modifications without prior warning.

Note: The information contained in this Instruction Manual is designed to assist you in the safe operation and maintenance of the compressor. Some illustrations in this Instruction Manual may show details or attachments that differ from those on your own compressor. Contact your nearest Jefferson Dealer if you are unsure about any information included in this manual or require any additional information about the safe use, operation maintenance, or repair of this equipment.

**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

DANGER - IMPROPER USE OF THIS HEATER CAN RESULT IN SERIOUS INJURY OR DEATH FROM BURNS, FIRE, EXPLOSION, ELECTRICAL SHOCK AND/OR CARBON MONOXIDE POISONING.

WARNINGS:

1. RISK OF INDOOR AIR POLLUTION!

- **Use this heater only in well ventilated areas.** Provide at least a three-square foot (2,800 sq. cm.) opening of fresh outside air for each 100,000 BTU/hr. of heater rating.
- People with breathing problems should consult a physician before using the heater.
- **Carbon monoxide poisoning:** Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness and/or nausea. If you have these signs, the heater may not be working properly. **Get fresh air at once!** Have the heater serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, persons with heart or lung disease or anemia, those under the influence of alcohol, or those at high altitudes.
- Never use this heater in living or sleeping areas.

2. RISK OF BURNS/FIRE/EXPLOSION!

- **NEVER** use any fuel other than 1-K kerosene in this heater. #1 fuel oil is the only acceptable substitute.
- **NEVER** use fuel such as gasoline, benzene, paint thinners or other oil compounds in this heater. **(RISK OF FIRE OR EXPLOSION)**
- **NEVER** use this heater where flammable vapors may be present.
- **NEVER** refill the heaters fuel tank while heater is operating or is still hot.
- This heater is **EXTREMELY HOT** while in operation. Keep all combustible materials away from heater. **Minimum Clearances:** Outlet: 8 feet (250cm) / Sides, top and rear: 4 feet (125cm)
- **NEVER** block air inlet (rear) or air outlet (front) of heater.
- **NEVER** use duct work in front or rear of heater.
- **NEVER** move or handle heater while still hot.
- **NEVER** transport heater with fuel in it's tank.
- When used with an optional thermostat or if equipped with a thermostat (JEFHTSPC 150) heater may start at any time.
- **ALWAYS** locate heater on a stable and level surface.
- **ALWAYS** keep children and animals away from heater.
- Bulk fuel storage should be a minimum of 25 ft. from heaters, torches, portable generators or other sources of ignition. All fuel storage should be in accordance with federal, state or local authorities having jurisdiction.

3. RISK OF ELECTRIC SHOCK!

- Use only the electrical power (voltage and frequency) specified on the model plate of the heater.
- Use only a three-prong, grounded outlet and extension cord.
- **ALWAYS** install the heater so that it is not directly exposed to water spray, rain, dripping water or wind.
- **ALWAYS** unplug the heater when not in use.

NEVER LEAVE THE HEATER UNATTENDED WHILE BURNING!

1. INTRODUCTION

Please read this USER'S MANUAL carefully. It will show you how to assemble, maintain, and operate the heater safely and efficiently to obtain full benefits from its many built-in features.

2. FEATURES

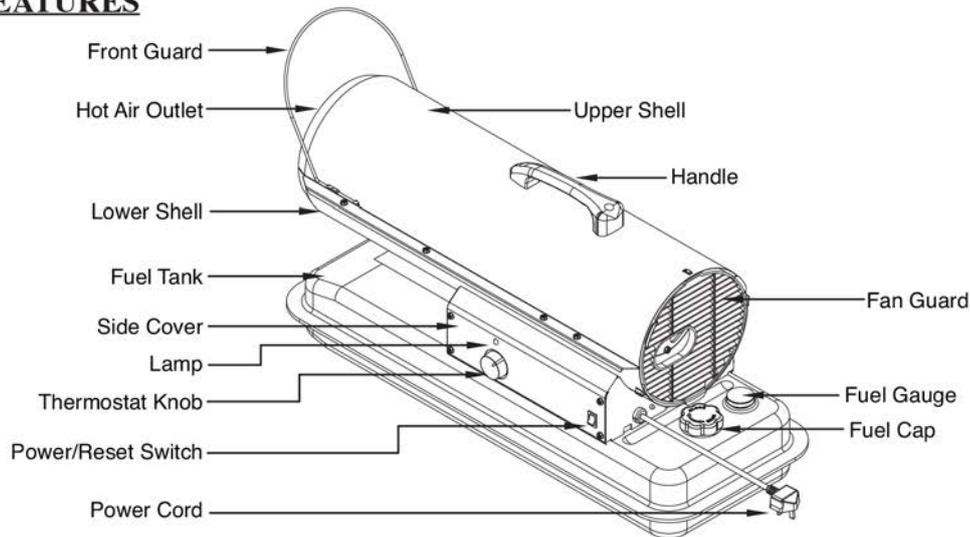


Figure 1. JEFHTSPC 60 MODEL

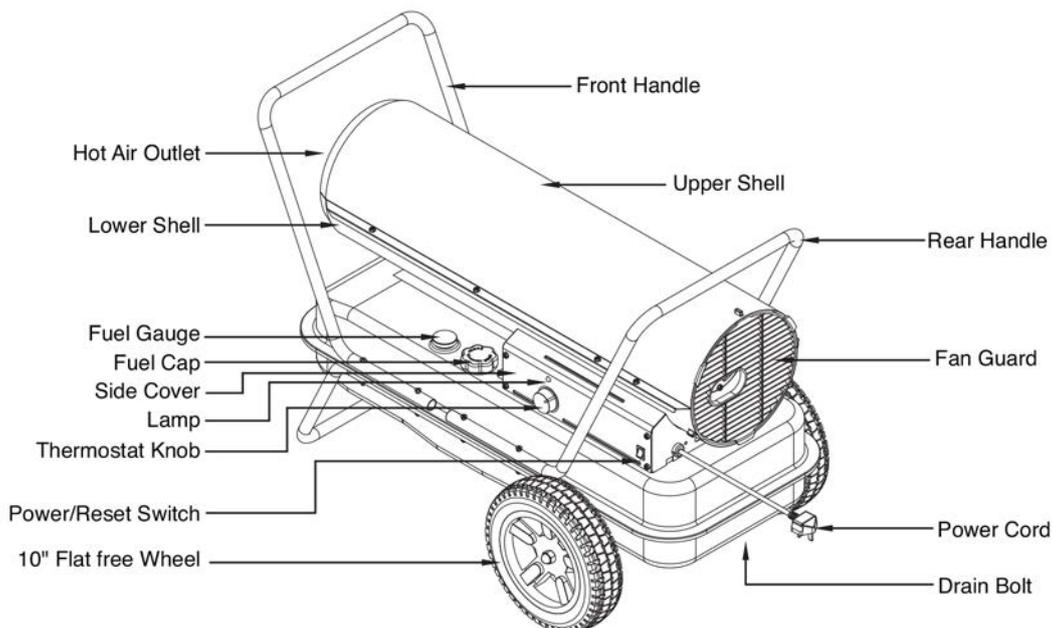


Figure 2. JEFHTSPC 105

**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

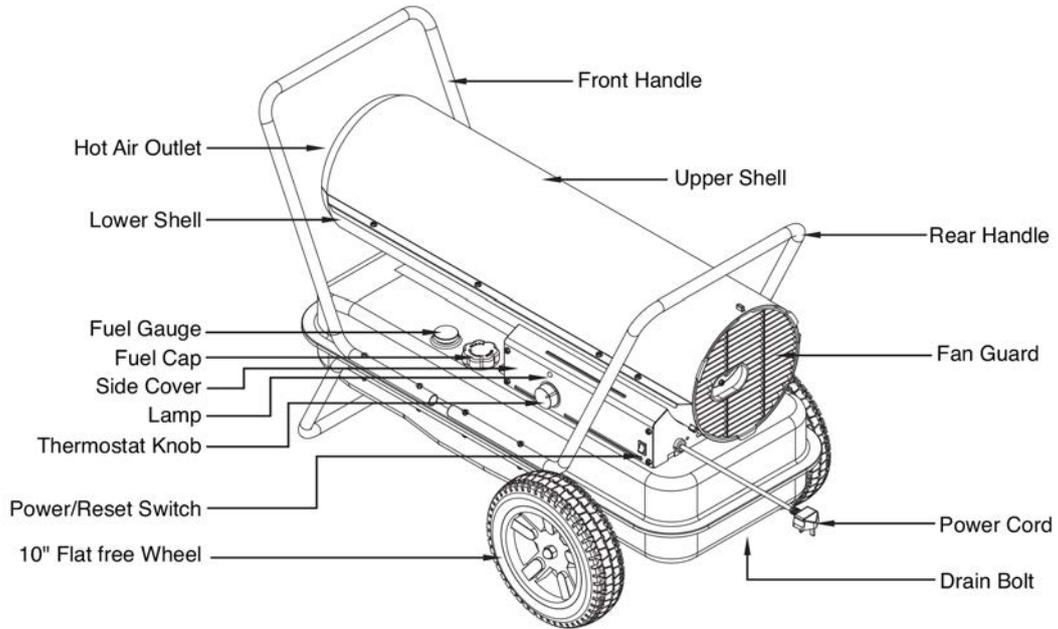


Figure 2. JEFHTSPC 105

NEVER LEAVE THE HEATER UNATTENDED WHILE BURNING!

3. UNPACKING AND ASSEMBLY

1. REMOVE THE HEATER AND ALL PACKING MATERIALS FROM THE BOX. (Fig. 4 and 5)
NOTE: Save the shipping carton and packing materials for future storage.

	JEFHTSPC 60	JEFHTSPC 105	JEFHTSPC 150
Wheel Support Frame	No	Yes	Yes
Wheel	No	Yes	Yes
Threaded Axle	No	Yes	Yes
Front Handle	No	Yes	Yes
Rear Handle	No	Yes	Yes
handle	Yes	No	No
Screws	Yes	No	No
Screws and Nuts	No	Yes	Yes

Figure 4. JEFHTSPC 60 MODEL

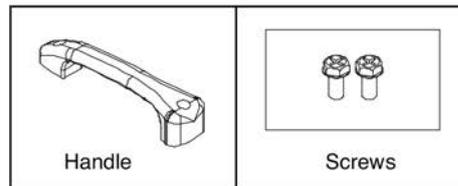
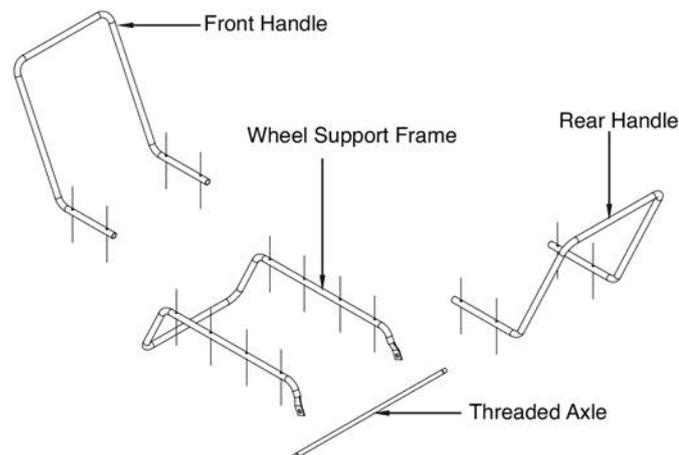
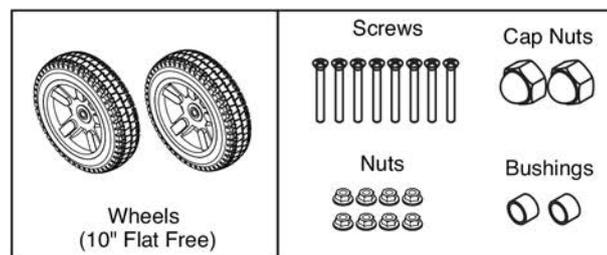


Figure 5. JEFHTSPC 105 / JEFHTSPC 150 MODELS



**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

2. ASSEMBLING

A. For JEFHTSPC 60 Model only (Figure 6)

Tools Required

- Medium Phillips Screwdriver

1. Lift front guard for arrow direction and make sure that guard's wedged portion fits into the slit hole in the upper shell and faces the hot air outlet.
2. Align the holes in the upper shell with the 2 mounting holes on the handle as shown in Figure 6.

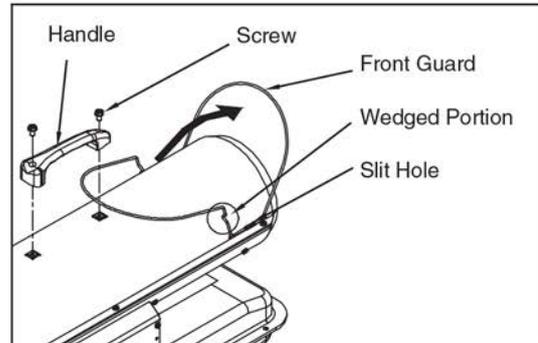


Figure 6. Assembling Handle

3. Insert screws into the holes in the handle and tighten each screw.

B. For JEFHTSPC 105 and JEFHTSPC 150 models only (Figure 7)

These models are furnished with wheels and handles. Wheels, handles, and the mounting hardware are found in the shipping carton.

Tools Required

- Medium Phillips Screwdriver
- 3/4 inch socket or adjustable wrench

1. Slide threaded axle through the rear section of the wheel support frame.
2. Slide one axle bushing on to each side of the axle. Slide one wheel on to each side of the axle. Attach one cap nut on to each side of the threaded axle and tighten well.
3. Place heater on wheel support frame. Align the holes on fuel tank flange with holes on wheel support frame.
4. Position the Handles on top of fuel tank flange. Insert screws through handles, fuel tank flange and wheel support frames as shown in Figure 7 and attach nut finger tight after each screw is inserted.
5. After all screws are inserted, tighten nuts firmly.

CAUTION: DO NOT OPERATE heater without support frame assembled to tank.

**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

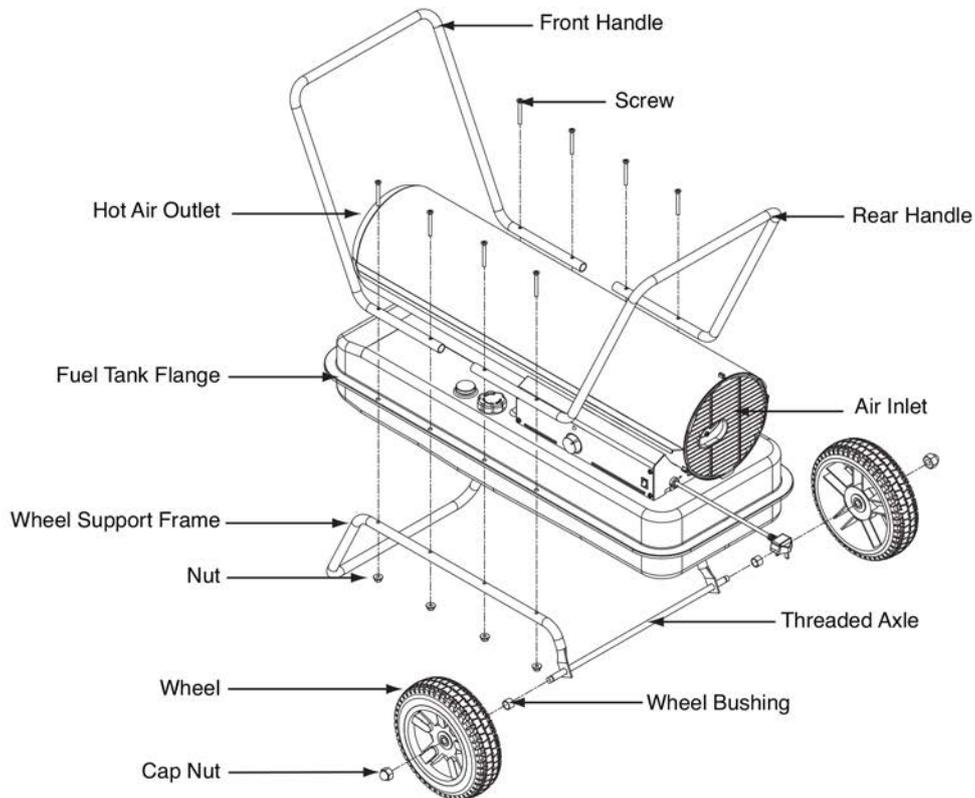


Figure 7. Assembling Handle and Wheels

4. KEROSENE (1-K)

It is **EXTREMELY IMPORTANT** for the proper operation of this heater that you use the correct grade of kerosene. The correct grade of kerosene is identified as 1-K kerosene.

1-K Kerosene has been refined to virtually eliminate contaminants such as sulphur, which can cause a rotten egg odor during operation of the heater. #1 fuel oil may be used if 1-K kerosene is not available.

KEROSENE SHOULD ONLY BE STORED IN A BLUE CONTAINER THAT IS CLEARLY MARKED "KEROSENE". NEVER STORE KEROSENE IN A RED CONTAINER.

Red containers are associated with gasoline.

NEVER store kerosene in the living space. Kerosene should be stored in a well ventilated place outside the living area.

NEVER use any fuel other than 1-K kerosene (#1 fuel oil is an acceptable substitute.)

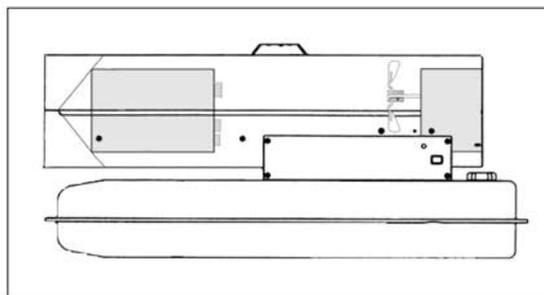
NEVER use fuel such as gasoline, benzene, alcohol, white gas, camp stove fuel, paint thinners, or other oil compounds in this heater. These are volatile fuels that can cause explosion or uncontrolled flames.

NEVER store kerosene in direct sunlight or near a source of heat.

NEVER use kerosene that has been stored from one season to the next. Kerosene deteriorates over time. **"OLD KEROSENE" WILL NOT BURN PROPERLY IN THIS HEATER.**

**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

5. OVERVIEW OF HEATERS DESIGN



Fuel System: This heater is equipped with an electric air pump that forces air through the air line connected to the fuel intake and then through a nozzle in the burner head. When the air passes in front of the fuel intake it causes fuel to rise from the tank and into the burner nozzle. This fuel and air mixture is then sprayed into the combustion chamber in a fine mist.

“Sure Fire Ignition”: The electronic ignitor sends voltage to a specially designed spark plug. The spark plug ignites the fuel and air mixture described above.

The Air System: The heavy duty motor turns a fan that forces air into and around the combustion chamber. Here the air is heated and then forced out the front of the heater.

The Safety System:

A. Temperature Limit Control: This heater is equipped with a Temperature Limit Control designed to turn off the heater should the internal temperature rise to an unsafe level. If this device activates and turns your heater off it may require service.

MODELS	Internal Shut-Off Temp. Plus/Minus 10 Degrees	Reset Temperature Plus/Minus 10 Degrees
JEFHTSPC 105 / JEFHTSPC 150	230°F/110°C	194°F/90°C
JEFHTSPC 60	176°F/80°C	122°F/50°C

Once the temperature falls below the reset temperature you will be able to start your heater.

B. Electrical System Protection: This heaters electrical system is protected by a fuse mounted to the PCB Assembly that protects it and other electrical components from damage. If your heater fails to operate check this fuse first and replace as needed.

FUSE TYPE:	All Models	250 volt / 5 amps
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C. Flame-Out Sensor: Utilizes a photocell to monitor the flame in burn chamber during normal operation. It will cause the heater to shut-off should the burner flame extinguish.

**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

6. FUELING YOUR HEATER

NEVER FILL THE HEATER FUEL TANK IN THE LIVING SPACE: FILL THE TANK OUTDOORS.

DO NOT OVERFILL YOUR HEATER AND BE SURE HEATER IS LEVELED.

IMPORTANT NOTICE REGARDING FIRST IGNITION OF HEATER:

The first time you light the heater, it should be done outdoors. This allows the oils, etc. used in manufacturing the heater to burn off outside.

WARNING!!: NEVER REFILL HEATER FUEL TANK WHEN HEATER IS OPERATING OR STILL HOT.

7. OPERATION

A.) VENTILATION

RISK OF INDOOR AIR POLLUTION/USE HEATER ONLY IN WELL VENTILATED AREAS.

Provide a fresh air opening of at least three square feet (2,800 sq. cm) for each 100,000 BTU/Hr.

Example: A JEFHTSPC 150 heater requires one of the following:

- a two-car garage door raised six inches (15.24 cm)
- a single-car garage door raised nine inches (22.86 cm)
- two, thirty-inch (76.20 cm) windows raised twelve inches (30.48 cm)

B.) OPERATION

TO START HEATER

1. Fill fuel tank with kerosene or No. 1 fuel oil.
2. Attach fuel cap.
3. Plug power cord of heater into three-prong, grounded extension cord. Extension cord must be at least six feet long.

Extension Cord Wire Size Requirements

- 6 to 10 feet (1.8 to 3 meters) long, use 18 AWG conductor.
 - 11 to 100 feet (3.4 to 30.5 meters) long, use 16 AWG conductor.
 - 101 to 200 feet (30.8 to 61 meters) long, use 14 AWG conductor.
4. Turn “THERMOSTAT CONTROL Knob” to desired setting (setting range : 4°C ~ 43°C) and push power switch to ON” position, power indicator lamp will light and heater will start. If heater does not start, the thermostat setting may be too low, turn THERMOSTAT CONTROL Knob” to higher position to start heater. If heater still does not start, turn power switch to “OFF” and then to “ON” position.(See Figure9). If heater still does not start, see Troubleshooting Guide on page 15.

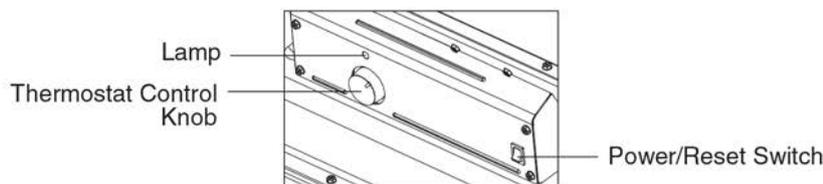


Figure 8. Controls For All Models

NOTICE: The major electrical components of this heater are protected by a safety fuse mounted to the PCB board. If your heater fails to start, check this fuse first and replace as necessary. You should also check your power source to insure that proper voltage and frequency are being supplied to the heater.

**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

TO STOP HEATER

1. Turn switch to “OFF” and unplug power cord.

TO RESTART HEATER

1. Wait 10 seconds after stopping heater.
2. Repeat steps under to start heater.

8. LONG TERM STORAGE OF YOUR HEATER

FUEL TANK DRAIN

1. Remove fuel drain bolt from rear bottom side of fuel tank using 3/4” socket or adjustable wrench and drain. (For JEFHTSPC 60 Model Only)
2. Remove fuel drain bolt from rear bottom side of fuel tank using 3/4” socket or adjustable wrench and drain. (For JEFHTSPC 105 / JEFHTSPC 150 Models Only. See Figure 9)
3. Using a small amount of kerosene, swirl and rinse the inside of the tank.
NEVER mix water with the kerosene as it will cause rust inside the tank.
Pour the kerosene out making sure that you remove it all.
IMPORTANT : Do not store kerosene over summer months for use during next heating season.
Using old fuel could damage heater.
4. Reinstall fuel cap. Properly dispose of old and dirty fuel. (For JEFHTSPC 60 Model Only)
5. Reinstall Fuel Drain Bolt to Fuel tank and tighten firmly using 3/4” socket or adjustable wrench.
(For JEFHTSPC 105 / JEFHTSPC 150 Models Only. See Figure 9)
IMPORTANT : Before reinstalling the fuel drain bolt, make sure the seal is on the bolt. If the seal is not used the bolt cannot be installed correctly and the fuel tank will leak.

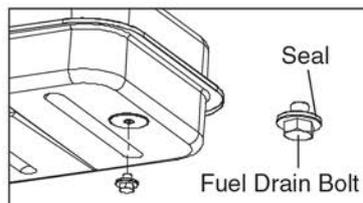


Figure 9. Drain Bolt

6. Store heater in dry well ventilated area. Make sure storage place is free of dust and corrosive fumes.
7. Store the heater in the original box with the original packing material and keep the USER'S MANUAL with the heater.

**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

9. MAINTENANCE

WARNING!: NEVER SERVICE HEATER WHILE IT IS PLUGGED IN OR WHILE HOT!

USE ORIGINAL EQUIPMENT REPLACEMENT PARTS. Use of third party or other alternate components will void warranty and may cause unsafe operating conditions.

A.) FUEL TANK

FLUSH EVERY 200 HOURS OF OPERATION OR AS NEEDED (See page 10)

B.) AIR INTAKE FILTER

WASH AND DRY WITH SOAP AND WATER EVERY 500 HOURS OF OPERATION OR AS NEEDED.

- Remove screws along each side of heater using medium phillips screwdriver
- Lift upper shell off.
- Remove fan guard.
- Wash or replace air intake filter.
- Reinstall fan guard and upper shell.

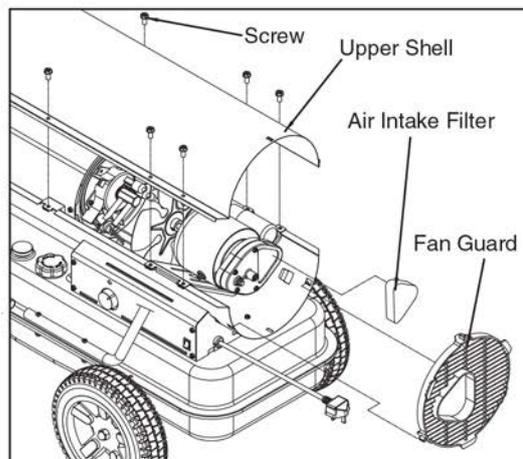


Figure 10. Air Intake Filter Access

C.) AIR OUTPUT FILTER, LINT FILTER

REPLACE EVERY 500 HOURS OF OPERATION OR ONCE A YEAR.

- Remove upper shell and fan guard (See Air Intake Filter).
- Remove end filter cover screws using medium phillips screwdriver.
- Remove end filter cover.
- Replace air output and lint filter.
- Reinstall end filter cover.
- Reinstall fan guard and upper shell.

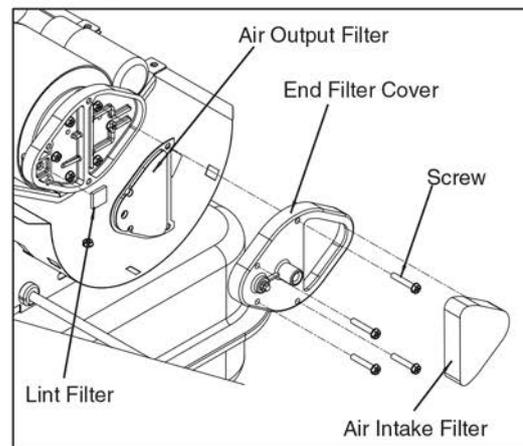


Figure 11. Air Output Filter Access

D.) FAN BLADES

CLEAN EVERY SEASON OR AS NEEDED.

- Remove upper shell (See Air Intake Filter).
- Use M6 allen wrench to loosen set screw which holds fan blade to motor shaft.
- Slip fan blade off motor shaft.
- Clean fan blade using a soft cloth moistened with kerosene or solvent.
- Dry fan blade thoroughly.
- Reinstall fan blade on motor shaft. Place fan blade hub flush with end of motor shaft.
- Place set screw on flat of shaft. Tighten set screw firmly (40-50 inch-pounds/4.5-5.6 N-m).
- Reinstall upper shell.

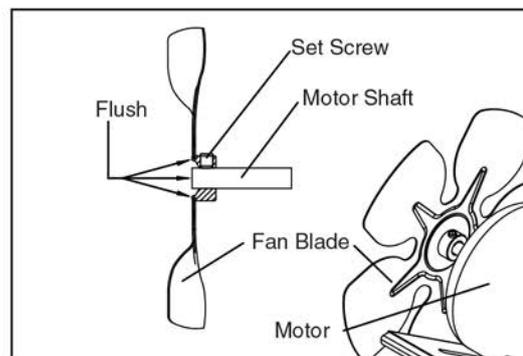


Figure 12. Fan Assembly

**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

E.) NOZZLE

REMOVE DIRT IN NOZZLE AS NEEDED
(See page 15).

- Remove upper shell (See page 11).
- Remove fan blade (See page 11).
- Remove fuel and air line hoses from nozzle adaptor.
- Remove ignitor wire from spark plug.
- Remove spark plug from nozzle adaptor using medium phillips screwdriver.
- Turn nozzle adaptor 1/9 turn (40°) to counter clock wise and pull toward motor to remove. (See Figure 13)
- Place plastic hex-body into vise and lightly tighten.
- Carefully remove nozzle from nozzle adaptor using 5/8" socket wrench.
- Blow compressed air through face of nozzle. (this will remove any dirt in nozzle)
- Reinstall nozzle into nozzle adaptor until nozzle seats. Tighten 1/3 turn more using 5/8" socket wrench. (40~45 inch-pounds)
- Reinstall nozzle adaptor to burner head.
- Reinstall spark plug to nozzle adaptor.
- Attach ignitor wire to spark plug.
- Attach fuel and air line hoses to nozzle adaptor.
- Reinstall fan blade and upper shell.

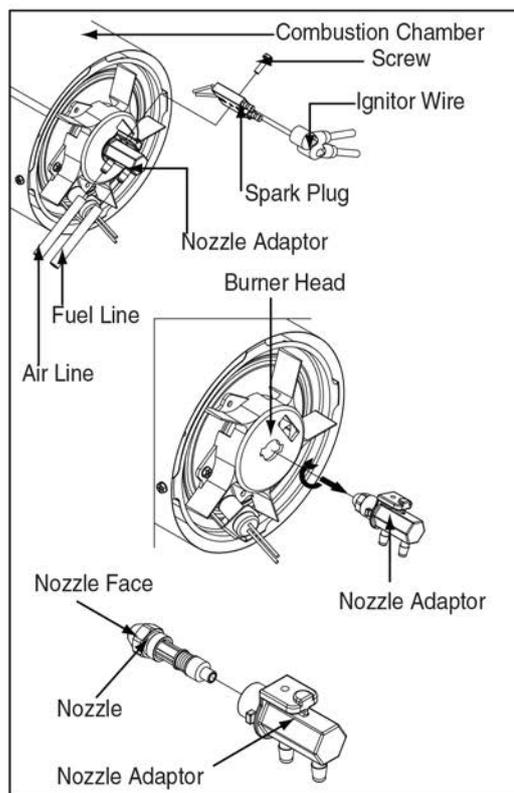


Figure 13. Remove Dirt in Nozzle

F.) SPARK PLUG

CLEAN AND REGAP EVERY 600 HOURS
OPERATION OR REPLACE AS NEEDED.

- Remove upper shell (See page 11).
- Remove fan (See page 11).
- Remove ignitor wire from spark plug.
- Remove spark plug from nozzle adaptor using medium phillips screwdriver.
- Clean and regap spark plug electrodes to 3.5mm gap. (0.138")
- Reinstall spark plug to nozzle adaptor.
- Attach ignitor wire to spark plug.
- Reinstall fan and upper shell.

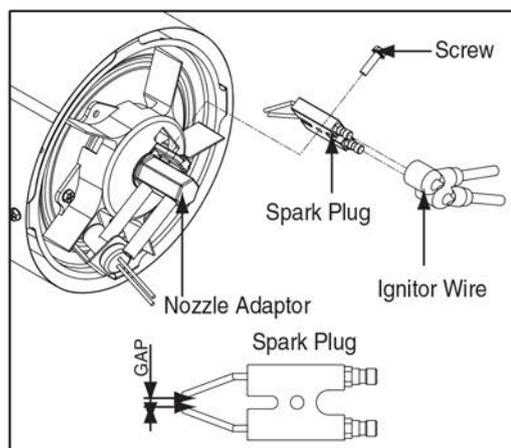


Figure 14. Clean & Regap Spark Plug

**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

G.) PHOTOCCELL

CLEAN PHOTOCCELL ANNUALLY OR AS NEEDED.

- Remove upper shell (See page 11).
- Remove fan (See page 11).
- Remove photocell from it's mounting.
Clean photocell lens with cotton swab.

TO REPLACE:

- Remove side cover screws using medium phillips screwdriver.
- Disconnect switch wires from power switch and remove side cover.
- Disconnect wires from circuit board and remove photocell.
- Install new photocell and connect wires to circuit board.
- Replace switch wires to power switch and side cover.
- Replace fan and upper shell.

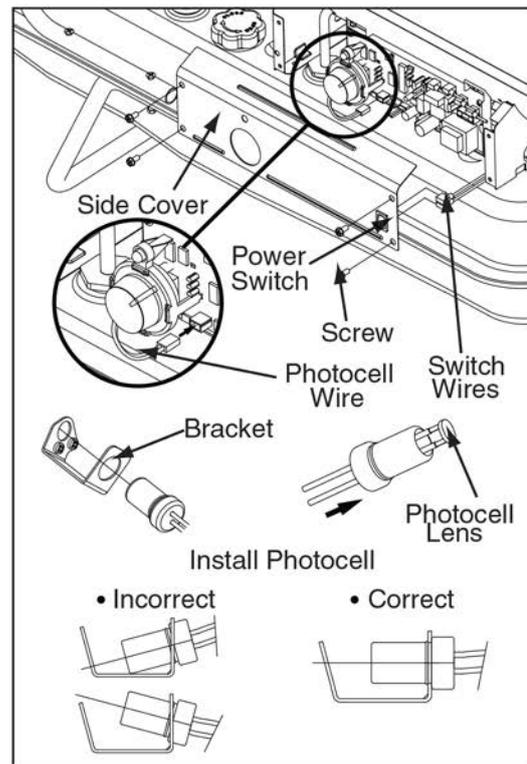


Figure 15. Potocell Replacement

H.) FUEL FILTER

CLEAN OR REPLACE TWICE A HEATING SEASON OR AS NEED.

- Remove side cover screws using medium phillips screwdriver.
- Disconnect switch wires from power switch and remove side cover.
- Pull fuel line off fuel filter neck.
- Turn fuel filter 90° to counter clockwise and pull to remove (JEFHTSPC 60 Model only).
- Turn fuel filter 90° to clockwise and pull to remove (JEFHTSPC 105 / JEFHTSPC 150 Models only).
- Wash fuel filter with clean fuel and replace in tank.
- Attach fuel line to fuel filter neck.
- Replace switch wires to power switch.
- Reinstall side cover.

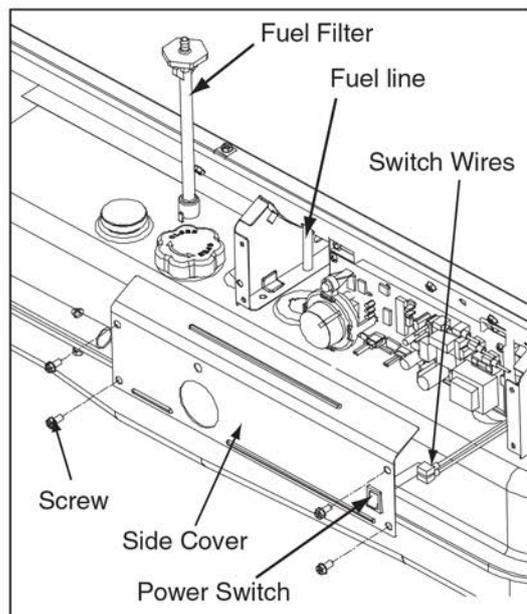


Figure 16. Clean Fuel Filter

**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

I.) PUMP PRESSURE ADJUSTMENT

- Remove pressure gauge plug from end filter cover.
- Install accessory pressure gauge.
- Start heater (See Operation, page 9)
- Adjust pressure (Using a flat blade screwdriver)
 - Turn relief valve to right to increase pressure.
 - Turn relief valve to left to decrease pressure.
 - Set pump pressure as noted below correct pressure for each model.
- Stop heater (See Operation, page 9)
- Remove pressure gauge. Replace pressure gauge plug in end filter cover.

MODEL	PUMP PRESSURE
JEFHTSPC 60	3 psi
JEFHTSPC 105	4 psi
JEFHTSPC 150	5 psi

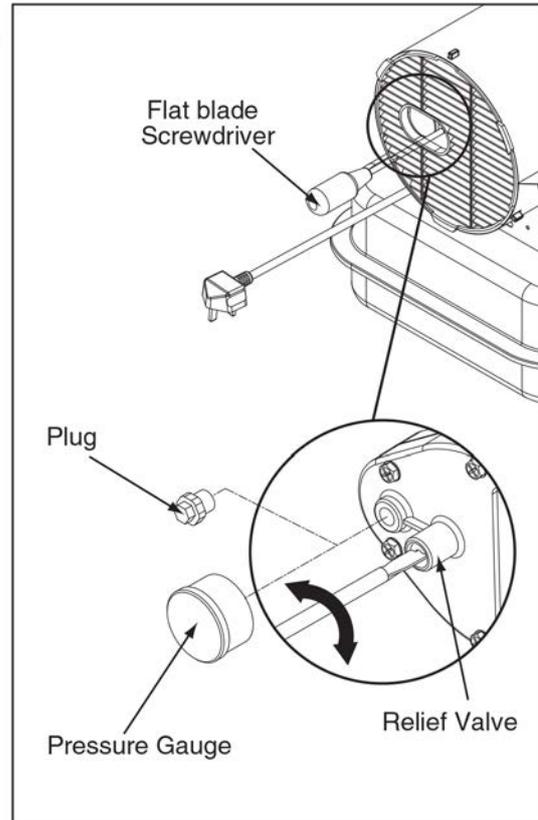


Figure 17. Adjusting Pump Pressure

NOTE: USE ONLY ORIGINAL EQUIPMENT REPLACEMENT PARTS.

Use of alternate or third party components will void any warranty and may cause unsafe operation condition.

**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

10. REPLACING FUSE

NOTICE : This heater is fuse protected.

If your heater fails to ignite, **DO NOT RETURN YOUR HEATER TO THE STORE.**

Please follow the simple instruction below to inspect and change the fuse.

PROCEDURE FOR REPLACING FUSE

⚠ WARNING : SHOCK HAZARD

To prevent personal injury, unplug the power cord before replacing fuse.

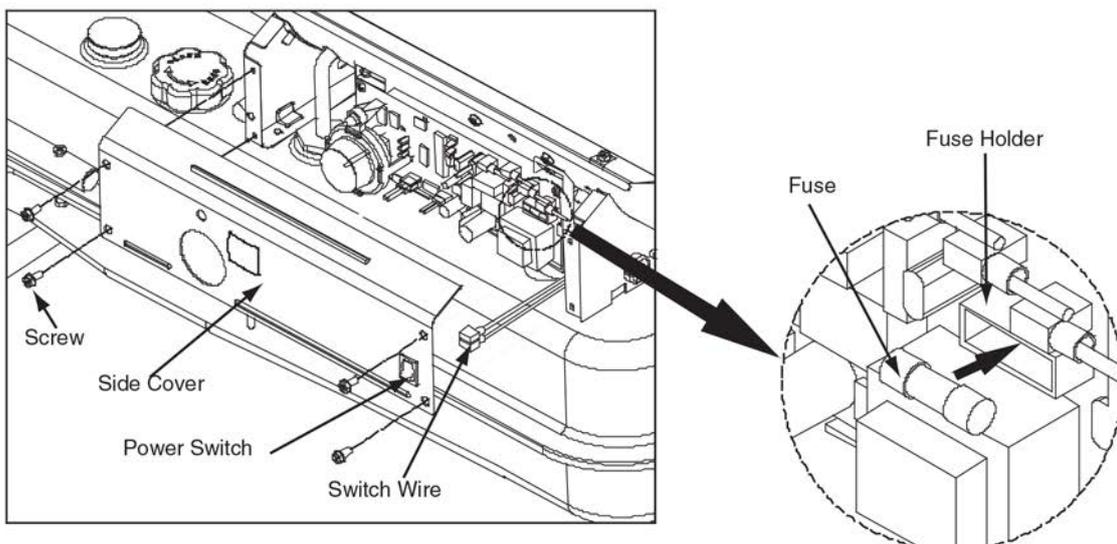
1. Unplug heater.
2. Remove side cover screws using medium phillips screw driver.
3. Disconnect switch wires from power switch.
4. Remove fuse from fuse holder.(See Figure)
5. Replace fuse with enclosed fuse.

⚠ WARNING : FIRE HAZARD

To avoid fire, Do not substitute with a higher or lower current rating.

6. Replace switch wires to power switch.
7. Replace side cover.

NOTE : Specified fuse rating : AC 250/5A



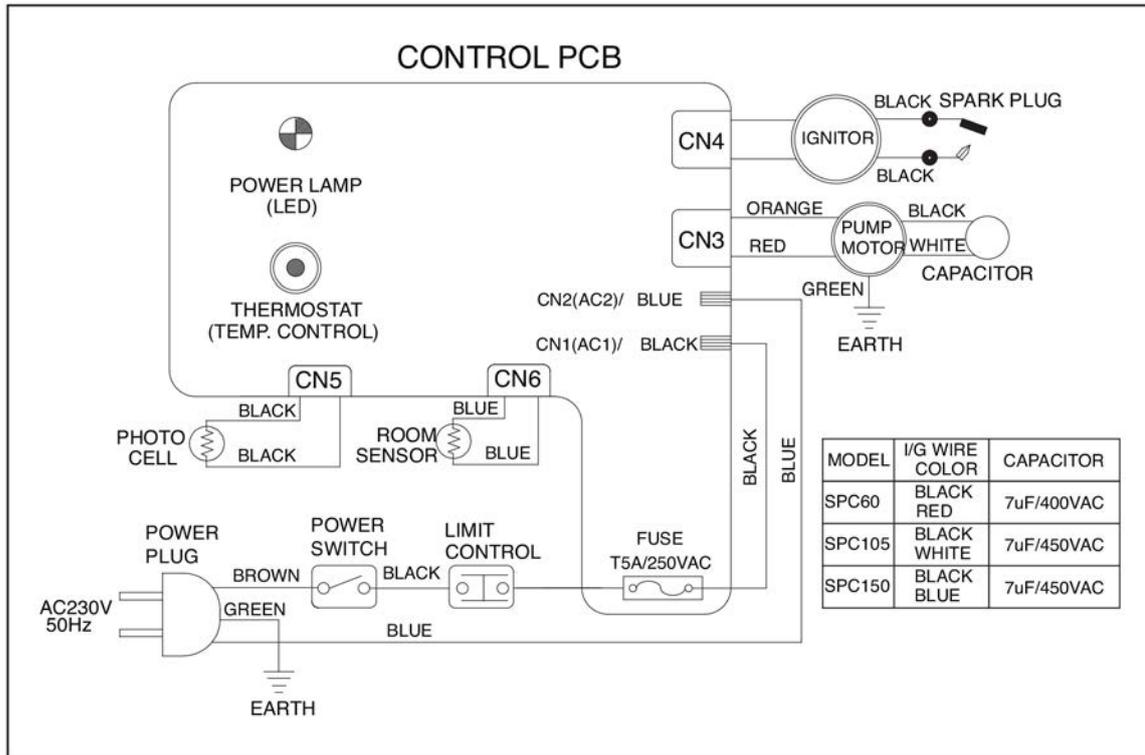
**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

11. TROUBLE SHOOTING GUIDE

TROUBLE	POSSIBLE CAUSE	CORRECTIVE ACTION
Heater ignites but MAIN PCB assembly shuts heater off after a short period of time. (Lamp is flickering)	<ol style="list-style-type: none"> 1. Wrong pump pressure 2. Dirty Air Output, Air Intake and Lint Filter 3. Dirty Fuel Filter 4. Dirt in Nozzle 5. Dirty Photocell Lens 6. Photocell Assembly not properly installed. (Not seeing the flame) 7. Bad electrical connection between photocell and MAIN PCB assembly 8. Defective photocell 	<ol style="list-style-type: none"> 1. See Pump Pressure Adjustment, page 14. 2. See Air Output, Air Intake and Lint Filters, page 11. 3. See Fuel Filter, page 13. 4. See Nozzle, page 12. 5. Clean Photocell Lens, page 13. 6. Make sure photocell boot is properly seated in bracket, page 13. 7. Check electrical components See wiring diagram, page 16. 8. Replace photocell, page 13.
Heater will not ignite but motor runs for a short period of time. (Lamp is flickering)	<ol style="list-style-type: none"> 1. No fuel in tank 2. Wrong pump pressure 3. Carbon deposits on spark plug and/or improper gap 4. Dirty fuel filter 5. Dirt in nozzle 6. Water in fuel tank 7. Bad electrical connection between ignitor and MAIN PCB assembly 8. Ignitor wire is not attached to spark plug 9. Defective ignitor 	<ol style="list-style-type: none"> 1. Fill tank with kerosene 2. See Pump Pressure Adjustment, page 14. 3. See Spark Plug, page 12. 4. See Fuel Filter, page 13. 5. See Nozzle, page 12. 6. Flush fuel tank with clean kerosene, page 10. 7. Check electrical connections, See wiring diagram, page 17. 8. Attach ignitor wire to spark plug. See Spark Plug, page 12. 9. Replace ignitor.
Fan does not turn when heater is plugged in and power switch was in the "ON" position (Lamp is on or flickering)	<ol style="list-style-type: none"> 1. Thermostat setting is too low 2. Bad electrical connection between motor and MAIN PCB assembly 	<ol style="list-style-type: none"> 1. Turn thermostat control knob to a higher setting 2. Check electrical connections, See Wiring Diagram, page 17.
Heater will not turn-on (Lamp is off)	<ol style="list-style-type: none"> 1. Temperature limit safety device is overheated 2. No electrical power 3. Blown fuse 4. Bad electrical connection between temperature limit safety device and PCB board 	<ol style="list-style-type: none"> 1. Turn power switch to "OFF" and allow to cool (about 10 min.). Then turn power switch to "ON" position. 2. Check to insure heater cord and extension cord are plugged in. Check power supply. 3. Replace safety fuse in PCB board. page 15. 4. Check electrical connections. See Wiring Diagram, page 17.

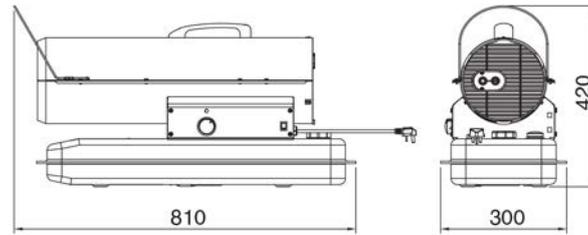
**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

12. WIRING DIAGRAM

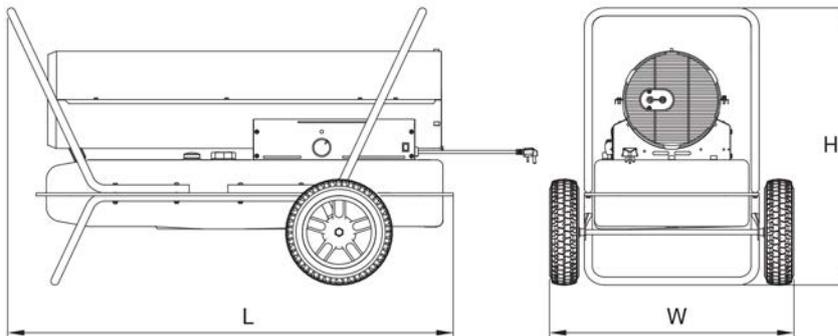


**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

13. SPECIFICATIONS



JEFHTSPC 60



	JEFHTSPC 105	JEFHTSPC 150
L	918	1062
W	547	587
H	625	664

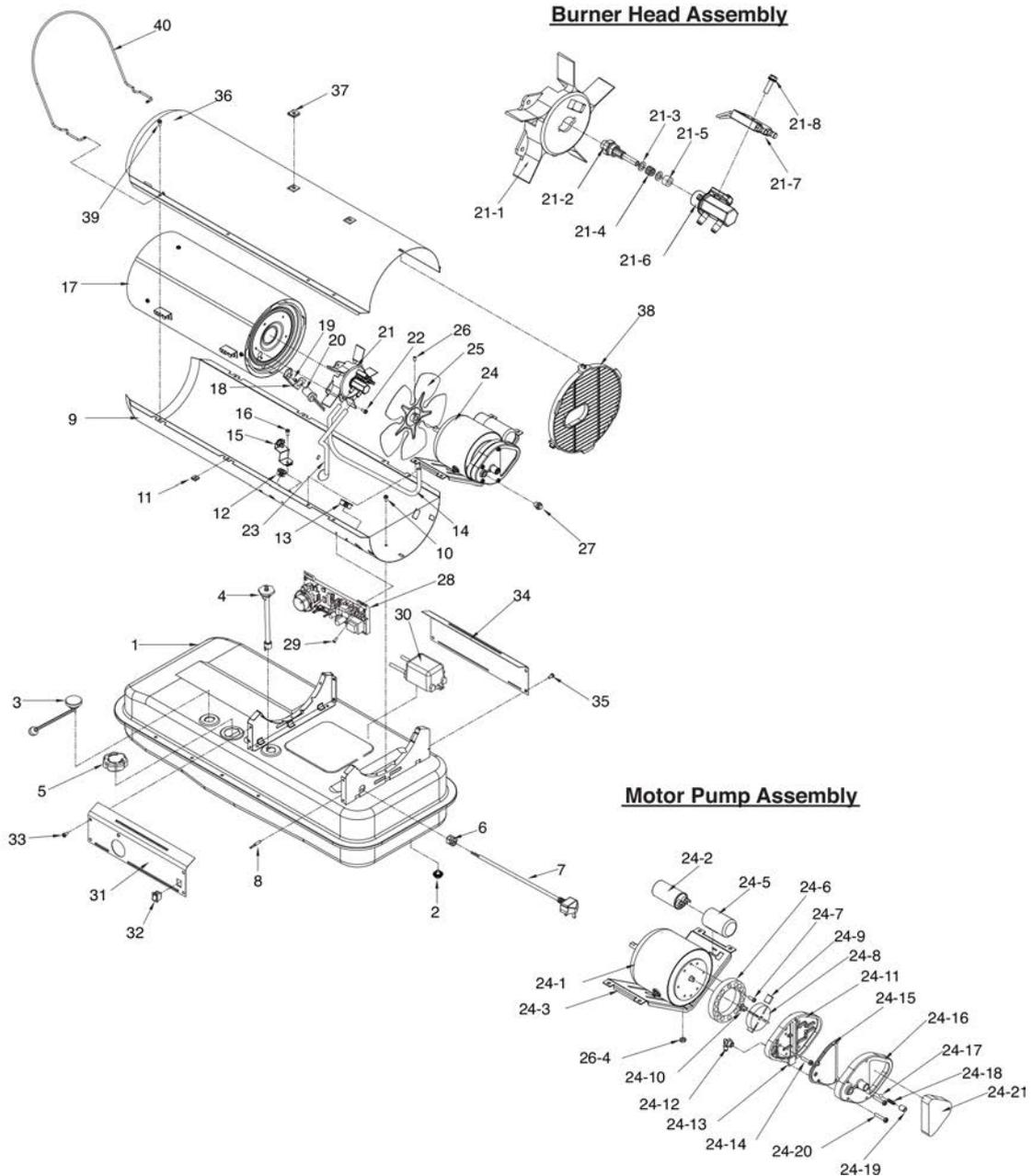
JEFHTSPC 105 / JEFHTSPC 150

	JEFHTSPC60	JEFHTSPC105	JEFHTSPC150
Heat Output:	60,000BTU (18KW)	105,000BTU (31KW)	150,000BTU (44KW)
Fuel Consumption:	1.7 L/Hour	3.0L L/Hour	4.2L L/Hour
Fuel Tank Capacity:	19L	38L	49L
Pump Pressure:	3psi	4psi	5psi
Continuous Combustion Duration:	Approx: 11hrs	Approx: 13hrs	Approx: 12hrs
Voltage ~ Frequency:	230V ~ 50Hz	230V ~ 50Hz	230V ~ 50Hz
Amps:	0.6	0.9	0.9
Fuel Type:	Kerosene	Kerosene	Kerosene
Dimensions: (LxWxH):	813 x 297 x 424mm	918 x 547 x 625mm	1062 x 587 x 664mm
Weight:	12.2kg	23.3kg	26kg

**NEVER LEAVE THE HEATER
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14. EXPLODED PARTS DRAWING

NOTE: SPECIFY MODEL NUMBER AND PART NUMBER WHEN ORDERING PARTS.



**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

15. PARTS LIST

KEY NO.	DESCRIPTION	PART NO.			Quantity
		JEFHTSPC 60	JEFHTSPC 105	JEFHTSPC 150	
1	Fuel Tank Assmebly	2151-0027-00	2151-0028-00	2151-0029-00	1
2	Fuel Drain-Bolt	-	4329-0072-00	4329-0072-00	1
3	Fuel Gauge	2156-0005-00	2156-0001-00	2156-0001-00	1
4	Fuel Filter Assmby	2155-0005-00	2155-0001-00	2155-0001-00	1
5	Fuel Cap	2151-0003-00	2151-0003-00	2151-0003-00	1
6	Cord Bushing	3712-0013-00	3712-0013-00	3712-0013-00	1
7	Power Cord	3980-0220-00	3980-0220-00	3980-0220-00	1
8	Thermistor	38C0-0054-00	38C0-0054-00	38C0-0054-00	1
9	Shell Lower	3111-0343-09	3111-0344-08	3111-0345-08	1
10	Flange Screw	4319-0015-00	4319-0015-00	4319-0015-00	4
11	Clip Nut	3131-0182-00	3131-0182-00	3131-0182-00	8
12	Bushing-Grommet(S)	3231-0120-00	3231-0120-00	3231-0120-00	1
13	Bushing-Grommet(L)	3231-0121-00	3231-0121-00	3231-0121-00	1
14	Air-Line	3341-0021-00	3341-0002-00	3341-0022-00	1
15	Temperature Limit Assembly	2153-0022-00	2153-0023-00	2153-0023-00	1
16	Flange-Screw	4319-0015-00	4319-0015-00	4319-0015-00	1
17	Chamber Assembly	2152-0116-00	2152-0117-00	2152-0118-00	1
18	Bracket Photocell	3131-0159-00	3131-0159-00	3131-0159-00	1
19	Screw-BH1	4311-0068-00	4311-0068-00	4311-0068-00	2
20	Photocell Assembly	2153-0002-00	2153-0002-00	2153-0002-00	1
21	Burner Head Assembly	2152-0121-00	2152-0122-00	2152-0123-00	1
21-1	Burner Head	3531-0026-00	3531-0025-00	3531-0024-00	1
21-2	Nozzle	2152-0063-00	2152-0005-00	2152-0011-00	1
21-3	Washer-Nozzle Seal	4349-0016-00	4349-0016-00	4349-0016-00	2
21-4	Spring-Nozzle Seal	3431-0010-00	3431-0010-00	3431-0010-00	1
21-5	O-Ring	3311-0002-00	3311-0002-00	3311-0002-00	1
21-6	Nozzle Adaptor	3231-0178-00	3231-0179-00	3231-0179-00	1
21-7	Spark Plug	3631-0009-00	3651-0012-00	3651-0012-00	1
21-8	Bolt-Flange	4329-0079-00	4329-0079-00	4329-0079-00	1
22	Flange Screw	4319-0015-00	4319-0015-00	4319-0015-00	3
23	Fuel Line	3341-0024-00	3341-0025-00	3341-0025-00	1
24	Motor and Pump Assembly	2154-0083-00	2154-0084-00	2154-0084-00	1
24-1	Motor	3970-0216-00	3970-0217-00	3970-0217-00	1
24-2	Capacitor	3820-0261-00	3820-0218-00	3820-0218-00	1
24-3	Motor Support	3121-0481-00	3121-0482-00	3121-0482-00	1
24-4	Nut-Hex	4331-0022-00	4331-0022-00	4331-0022-00	2
24-5	Holder Capacitor	-	3231-0182-00	3231-0182-00	1
24-6	Pump Body	3541-0022-00	3541-0022-00	3541-0022-00	1

**NEVER LEAVE THE HEATER
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15. PARTS LIST

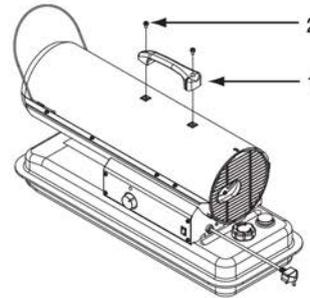
KEY NO.	DESCRIPTION	PART NO.			Quantity
		JEFHTSPC 60	JEFHTSPC 105	JEFHTSPC 150	
24-7	Bolt-BH Special	4321-0198-00	4321-0198-00	4321-0198-00	2
24-8	Rotor	3451-0008-00	3451-0008-00	3451-0008-00	1
24-9	Blade	3451-0009-00	3451-0009-00	3451-0009-00	4
24-10	Insert	3231-0052-00	3231-0052-00	3231-0052-00	1
24-11	End Pump Cover	3531-0027-00	3531-0027-00	3531-0027-00	1
24-12	Elbow	3231-0181-00	3231-0181-00	3231-0181-00	1
24-13	Lint Filter	3631-0005-00	3631-0005-00	3631-0005-00	1
24-14	Bolt Flange	4329-0016-00	4329-0016-00	4329-0081-00	6
24-15	Output Filter	2155-0004-00	2155-0004-00	2155-0004-00	1
24-16	End Filter Cover	3221-0029-00	3221-0029-00	3221-0029-00	1
24-17	Ball	3541-0023-00	3541-0023-00	3541-0023-00	1
24-18	Spring	3431-0016-00	3431-0016-00	3431-0016-00	1
24-19	Adjusting Screw	3231-0053-00	3231-0053-00	3231-0053-00	1
24-20	Bolt Flange	4329-0016-00	4329-0016-00	4329-0016-00	4
24-21	Intake Filter	3631-0007-00	3631-0007-00	3631-0007-00	1
25	Fan Assembly	2154-0009-00	2154-0004-00	2154-0007-00	1
26	Bolt Headless Hex Socket	4323-0004-00	4323-0004-00	4323-0004-00	1
27	Plug	3231-0054-00	3231-0054-00	3231-0054-00	1
28	Main P.C.B Assembly	215A-0049-00	215A-0049-00	215A-0049-00	1
29	Screw-TH2S	4312-0046-00	4312-0046-00	4312-0046-00	2
30	Ignitor	39E0-0009-00	39E0-0010-00	39E0-0011-00	1
31	Side Cover-Right	3121-0497-10	3121-051004	3121-0511-03	1
32	Power Switch	39A0-0191-00	39A0-0191-00	39A0-0191-00	1
33	Flange Screw	4319-0015-00	4319-0015-00	4319-0015-00	4
34	Side Cover-Left	3121-0503-03	3121-0504-03	3121-0506-03	1
35	Flange Screw	4319-0015-00	4319-0015-00	4319-0015-00	4
36	Shell Upper	3111-0347-08	3111-0348-08	3111-0349-08	1
37	Clip Nut	3131-0182-00	-	-	2
38	Fan Guard	3221-0050-00	3221-0051-00	3221-0051-00	1
39	Flange Screw	4319-0015-00	4319-0015-00	4319-0015-00	8
40	Front Guard	3561-0066-00	-	-	1

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15. PARTS LIST (WHEELS AND HANDLE)

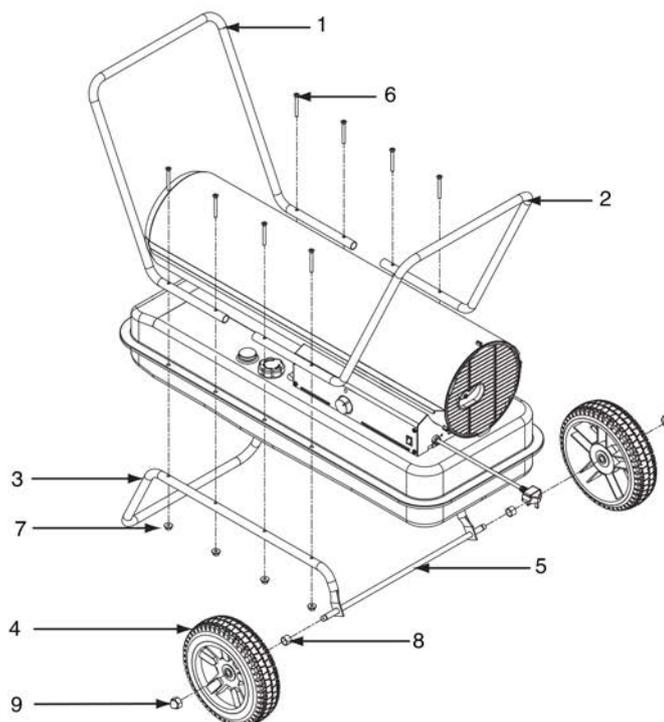
1) JEFHTSPC 60

KEY NO.	DESCRIPTION	PART NO.	Quantity
		JEFHTSPC 60	
1	Handle	3231-0073-00	1
2	Screw	4319-0015-00	2



2) JEFHTSPC 105 / JEFHTSPC 150 MODELS

KEY NO.	DESCRIPTION	PART NO.		Quantity
		JEFHTSPC 105	JEFHTSPC 150	
1	Front Handle	3551-0023-00	3551-0022-00	1
2	Rear Handle	3551-0096-00	3551-0097-00	1
3	Wheel Support Frame	3551-0082-00	3551-0084-00	1
4	Wheel	3720-0017-00	3720-0017-00	2
5	Threaded Axle	3551-0088-00	3551-0089-00	1
6	Screw	4321-0166-00	4321-0166-00	8
7	Nut	4331-0028-00	4331-0028-00	8
8	Bushing	3131-0300-00	3131-0300-00	2
9	Cap Nut	4334-0001-00	4334-0001-00	2



EC DECLARATION OF CONFORMITY

We, Jefferson Professional Tools & Equipment, as the authorised European Community representative of the manufacturer, declare that the following equipment conforms to the requirements of the following Directives:

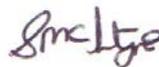
Directive:	Description:	Notified Body:
2014/35/EU (as amended)	Low Voltage Directive (LVD)	ETL Inc. 114, Gasan digital 2-ro, Geumcheon-gu, Seoul, 08506 Korea, Republic of
2014/30/EU (as amended)	Electromagnetic Compatibility (EMC)	TÜV SÜD Korea Ltd
2011/65/EU (as amended)	Restriction of Hazardous Substances Directive (RoHS)	TÜV SÜD Korea Ltd

Equipment Category: Forced Air Heater / Convection Heater

Product Model • Description: JEFHTSPC060 - 60,000btu Inferno Portable Space Heater
JEFHTSPC105 - 105,000btu Inferno Portable Space Heater
JEFHTSPC150 - 150,000btu Inferno Portable Space Heater

Signed by:

Stephen McIntyre



Position in the company:

Operations Director

Date:

22nd June 2018

**Name and address of
manufacturer or authorised
representative:**

Jefferson Tools, Herons Way, Chester Business
Park, Chester, United Kingdom, CH4 9QR
Telephone: +44 (0)1244 646 048
Fax: +44 (0)1244 241 191
Email: enquiries@jeffersonstools.com

ENVIRONMENTAL PROTECTION



**PLEASE
RECYCLE**

Recycle any packaging and unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment.

When the product becomes completely unserviceable, reaches the end of its working life and requires disposal, drain off any fluids (if applicable) into approved containers and dispose of the product and the fluids according to local regulations.

WEEE Waste Electrical and Electronic Equipment Statement



Information on Disposal for Users of Waste Electrical & Electronic Equipment

This symbol on the product(s) and / or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product(s) to designated collection points where it will be accepted free of charge.

For private households:

Dispose of this product at the end of its working life and in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). Contact your local solid waste authority for recycling information for this equipment.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with your national legislation.

For business users in the European Union:

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union:

This symbol is only valid in the European Union. If you wish to discard this product please contact your local authorities or dealer and ask for the correct method of disposal.

RoHS Directive 2011/65/EU

We hereby declare that this equipment has been tested and found to be compliant to RoHS Directive 2011/65/EU of the European Parliament and the Council from 08/06/2011 on restriction of the use of certain hazardous substances in electrical and electronic appliances.

Determination of levels of regulated substances in electrotechnical products, elements of Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) contents were measured by XRF Spectroscopy and chemical confirmation test for RoHS restricted substances.

LIMITED WARRANTY STATEMENT

Jefferson Professional Tools & Equipment, or hereafter "Jefferson" warrants its customers that its products will be free of defects in workmanship or material. Jefferson shall, upon suitable notification, correct any defects, by repair or replacement, of any parts or components of this product that are determined by Jefferson to be faulty or defective.

This warranty is void if the equipment has been subjected to improper installation, storage, alteration, abnormal operations, improper care, service or repair.

Warranty Period

Jefferson will assume both the parts and labour expense of correcting defects during the stated warranty periods below.

All warranty periods start from the date of purchase from an authorised Jefferson dealer. If proof of purchase is unavailable from the end user, then the date of purchase will be deemed to be 3 months after the initial sale to the distributor.

1 Year

JEFHTSPC060 - 60,000btu Inferno Portable Space Heater
JEFHTSPC105 - 105,000btu Inferno Portable Space Heater
JEFHTSPC150 - 150,000btu Inferno Portable Space Heater

90 Days

- All replacement parts purchased **outside** of the warranty period

***Important:** All parts used in the repair or replacement of warranty covered equipment will be subject to a minimum of 90 days cover or the remaining duration of the warranty period from the original date of purchase.*

Warranty Registration / Activation

You can register and activate your warranty by visiting the Jefferson Tools website using the following address:

www.jeffersontools.com/warranty and completing the online form. Online warranty registration is recommended as it eliminates the need to provide proof of purchase should a warranty claim be necessary.

Warranty Repair

Should Jefferson confirm the existence of any defect covered by this warranty the defect will be corrected by repair or replacement at an authorized Jefferson dealer or repair centre.

Packaging & Freight Costs

The customer is responsible for the packaging of the equipment and making it ready for collection. Jefferson will arrange collection and transportation of any equipment returned under warranty. Upon inspection of the equipment, if no defect can be found or the equipment is not covered under the terms of the Jefferson warranty, the customer will be liable for any labour and return transportation costs incurred.

These costs will be agreed with the customer before the machine is returned.

** Jefferson reserve the right to void any warranty for damages identified as being caused through misuse*

Warranty Limitations

Jefferson will not accept responsibility or liability for repairs made by unauthorised technicians or engineers. Jefferson's liability under this warranty will not exceed the cost of correcting the defect of the Jefferson products.

Jefferson will not be liable for incidental or consequential damages (such as loss of business or hire of substitute equipment etc.) caused by the defect or the time involved to correct the defect. This written warranty is the only express warranty provided by Jefferson with respect to its products.

Any warranties of merchantability are limited to the duration of this limited warranty for the equipment involved.

Jefferson is not responsible for cable wear due to flexing and abrasion. The end user is responsible for routine inspection of cables for possible wear and to correct any issues prior to cable failure.

Claiming Warranty Coverage

The end user must contact Jefferson Professional Tools & Equipment (Tel: +44 (0) 1244 646 048) or their nearest authorised Jefferson dealer where final determination of the warranty coverage can be ascertained.

Step 1 - Reporting the Defect

Online Method:

- Visit our website www.jeffersonstools.com/warranty and complete the Warranty Returns form. You can complete the form online and submit it to us directly or download the form to print out and return by post.

Telephone Method:

Contact your Jefferson dealer or sales representative with the following information:

- Model number
- Serial number (usually located on the specification plate)
- Date of purchase

A Warranty Returns form will be sent to you for completion and return by post or fax, together with details of your nearest authorised Jefferson repair centre. On receipt of this form Jefferson will arrange to collect the equipment from you at the earliest convenience.

Step 2 - Returning the Equipment

It is the customer's responsibility to ensure that the equipment is appropriately and securely packaged for collection, **together with a copy of the original proof of purchase**. Please note that Jefferson cannot assume any responsibility for any damage incurred to equipment during transit. Any claims against a third party courier will be dealt with under the terms & conditions of their road haulage association directives.

NOTE: Jefferson will be unable to collect or process any warranty requests without a copy of the original proof of purchase.

Step 3 - Assessment and Repair

On receipt, the equipment will be assessed by an authorised Jefferson engineer and it will be determined if the equipment is defective and in need of repair and any repairs needed are covered by the warranty policy. In order to qualify for warranty cover all equipment presented must have been used, serviced and maintained as instructed in the user manual.

Where repair is not covered by the warranty a quotation for repair, labour costs and return delivery will be sent to the customer (normally within 7 working days).

NOTE: If the repair quotation is not accepted Jefferson Professional Tools & Equipment will invoice 1 hour labour time at £30 per hour plus return carriage costs (plus VAT).

In cases where no fault can be found with the equipment, or, if incorrect operation of the equipment is identified as the cause of the problem, a minimum of 1 hour labour at **£30 per hour plus carriage costs** will be required before the equipment will be despatched back to the customer.

Any equipment repaired or replaced under warranty will normally be ready for shipment back to the customer within 7 working days upon receipt of the equipment at an authorised Jefferson Repair centre (subject to part availability). Where parts are not immediately available Jefferson will contact you with a revised date for completion of the repair.

General Warranty Enquiries

For any further information relating to Jefferson warranty cover please call **+44 (0) 1244 646 048** or send your enquiry via email to warranty@jeffersonstools.com

Disclaimer:

The information in this document is to the best of our knowledge true and accurate, but all recommendations or suggestions are made without guarantee. Since the conditions of use are beyond their control, Jefferson Tools® disclaim any liability for loss or damage suffered from the use of this data or suggestions. Furthermore, no liability is accepted if use of any product in accordance with this data or suggestions infringes any patent. Jefferson Tools® reserve the right to change product specifications and warranty statements without further notification. All images are for illustration purposes only.



IMPORTANT! SAFETY FIRST!

Before attempting to use this product please read all the safety precautions and operating instructions outlined in this manual to reduce the risk of fire, electric shock or personal injury.



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CH4 9QR

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