PORTABLE FORCED AIR HEATERS
"USER'S MANUAL"

MODEL : DFA400T2

Before the first use of this heater, please read this USER'S MANUAL very carefully. This USER'S MANUAL has been designed to instruct you as to the proper manner in which to assemble the heater, maintain the heater, store the heater, and most importantly, how to operate the heater in a safe and efficient manner. Please keep this manual for future reference.

World Marketing of America, Inc.
RT.22 West, P.O. Box 192
Mill Creek, PA 17060
Telephone : 814-643-1775 (9AM - 4PM EST)
www.yourheater.com
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, #1/#2 diesel/fuel oil, JET A or JP-8 fuels in this heater.
   - 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.

⚠️ CAUTION: Hot while in operation. Do not touch. Keep children, clothing and combustibles 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 behind of heater.
   - NEVER move, handle, service a hot, operating or plugged in heater.
   - NEVER transport heater with fuel in it’s tank.
   - When used with an optional thermostat or if equipped with a thermostat 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.

PROPOSITION 65 WARNING: Fuels used in gas, wood-burning or oil fired appliances, and the products of combustion of such fuels, contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

MASSACHUSETTS RESIDENTS: Massachusetts state law prohibits the use of this heater in any building which is used in whole or in part for human habitation. Use of this heating device in Massachusetts requires local fire dept. permit (M.E.L.C. 148, Section 10A.)

CANADIAN RESIDENTS: Use of this heater shall be in accordance with authorities having jurisdiction and CSA Standard B139.

NEW YORK CITY RESIDENTS: For use only at construction sites in accordance with applicable NYC codes under NYCFD certificate of approval # 5034 and 5037.
NEVER LEAVE THE HEATER UNATTENDED WHILE BURNING!

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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

![Diagram of Heat Lamp Model DFA400T2](image)

Figure 1. DFA400T2 MODEL
3. UNPACKING AND ASSEMBLY
1. REMOVE THE HEATER AND ALL PACKING MATERIALS FROM THE BOX. (See Fig.2)
   NOTE: Save the shipping carton and packing materials for future storage.

![Figure 2. PACKING MATERIALS](image)

2. ASSEMBLING

   **Tools Required**
   - Medium Phillips Screwdriver
   - 24 mm Socket Wrench

   **Assembling wheel & handle & cord wrap**
   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. Make sure air inlet end (rear) of heater is over wheels. Align the
      holes on fuel tank flange. Insert screws(L) through handles (front and Rear), fuel tank flange, and
      wheel support frame. Insert screws(S) through rear handle, fuel tank flange, and washer(S) as shown
      in figure 3 and attach nut finger tight after each screw is inserted.
   4) After all screws are inserted, tighten nuts firmly.
   5) Align the hole on the rear handle with the mounting hole on the cord wrap.
   6) Insert screws through cord wrap, rear handle as shown in Figure 3 and attach nut finger tight after each
      screw is inserted.
   7) After all screws are inserted, tighten nuts firmly.

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

For optimal performance of this heater, it is strongly suggested that 1-K kerosene be used. 1-K kerosene has been refined to virtually eliminate contaminants, such as sulphur. Which can cause a rotten egg odor during the operation of the heater. However, #1/#2 diesel/fuel oil, JET A or JP-8 fuels may also be used if 1-K kerosene is not available. Be advised that these fuels do not burn as clean as 1-K kerosene, and care should be taken to provide more fresh air ventilation to accommodate any added contaminants that may be added to the heated space. #2 diesel/fuel oil heavier than 1-K kerosene in extreme cold temperatures without nontoxic anti-icer additives will not ignite properly.

**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/#2 diesel/fuel oil, JET A or JP-8 fuels are acceptable substitutes)

**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 an 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 a Fuel pump (Gear) that pulls fuel through the fuel line connected to the fuel tank and then pushes fuel through a filter and a solenoid valve and out the burner head nozzle. This fuel is 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.

The Air System: The heavy duty motor turns a fan that forces air into and around the combustion chamber. This 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.

<table>
<thead>
<tr>
<th>Internal Shut-Off Temp. Plus/Minus 10 Degrees</th>
<th>Reset Temperature Plus/Minus 10 Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>176°F/80°C</td>
<td>122°F/50°C</td>
</tr>
</tbody>
</table>

B. Electrical System Protection: This heater's 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: 250 VAC / 8 amps

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.

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 REFILE HEATER FUEL TANK WHEN HEATER IS OPERATING OR STILL HOT.
NEVER LEAVE THE HEATER UNATTENDED WHILE BURNING!

7. OPERATION

A.) VENTILATION

RISK OF INDOOR AIR POLLUTION/USE 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.

B.) OPERATION

TO START HEATER
1. Fill fuel tank with fuel.
NOTE: Kerosene is recommended when the temperature drops below 0°F (-18°C) to prevent ignition delay or failure.

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 100 feet long, use 14 AWG conductor.
   - 101 to 200 feet long, use 12 AWG conductor.
   - 201 to 300 feet long, use 10 AWG conductor.
   - 301 to 400 feet long, use 8 AWG conductor.
   - 401 to 500 feet long, use 6 AWG conductor.

4. Turn “Thermostat Control Knob” to desired setting (setting range: 40°F to 110°F) and push operating switch to “ON” position, power indicator lamp and room temp. display will light and heater will start.

NOTE: Room Temp. display indicates as following,
- When room temp. is less than 0°F: “Lo”
- When room temp. is between 0°F and 99°F: Indicates in figure.
- When room temp. is more than 99°F: “Hi”

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 operating switch to “OFF” and then to “ON” position. (Figure 4). If heater still does not start, see Troubleshooting Guide on page 13.

Figure 4. CONTROL PARTS

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

⚠️ CAUTION; Never unplug heater while heater is running
Heater must go through cooling cycle. The cooling cycle cools the combustion chamber. Damage to heater can occur if combustion chamber is not cooled. Do not restart heater until cooling cycle is complete.

1. Turn operating switch to "OFF".
   This will cause heater flame to go out.
   The motor will continue to run during the cooling cycle.
   (Room Temp. Display will show "CC" during the cooling cycle)
   This allows the fan to cool the combustion chamber. When the cooling cycle (approx. 1 Min) is finished, the motor will stop.
   Do not unplug heater until cooling cycle is finished.
2. Unplug power cord.
3. To temporarily stop heaters, set thermostat at a temperature lower than air around heater, Heater will cycle back on if air temperature around heater matches thermostat setting.

TO RESTART HEATER

⚠️ CAUTION; Do not restart heater until cooling cycle is finished.
The cooling cycle cools the combustion chamber.

1. Wait until cooling cycle is finished after stopping heater.
2. Repeat steps under to start HEATER.

PIGGYBACK POWER CORD

![Figure 5. Piggyback Power Cord](image)

⚠️ WARNING; SHOCK HAZARD!

- Always cover electric outlet when not in use.
- Do not plug in and use an appliance of more than 120V 5A current in this outlet.
8. LONG TERM STORAGE OF YOUR HEATER

1. Remove fuel drain bolt from rear bottom side of fuel tank using 3/4” socket or adjustable wrench and drain.

2. 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.

3. Reinstall Fuel Drain Bolt to Fuel tank and tighten firmly using 3/4” socket or adjustable wrench.

![Figure 6. Drain Bolt]

   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.

4. Store heater in dry well ventilated area. Make sure storage place is free of dust and corrosive fumes.

5. Store the heater in the original box with the original packing material and keep the USER’S MANUAL with the heater.
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.) UPPER SHELL REMOVAL

- Remove screws along each side and top of heater using medium phillips screw driver.
- Lift upper shell off.

(See Figure 7)

Figure 7. Upper Shell Removal

B.) FAN BLADES AND AIR DEFLECTOR
CLEAN EVERY SEASON OR AS NEEDED.
- Remove upper shell (See figure 7 above)
- Clean fan blades and air deflectors using a soft cloth moistened with kerosene or solvent.
- Dry fan blades and air deflectors thoroughly.
- Reinstall upper shell.

Figure 8. Fan Blades and Air Deflectors
C.) SPARK PLUG
CLEAN AND REGAP EVERY 600 HOURS
OPERATION OR REPLACE AS NEEDED.
- Remove upper shell (See page 9).
- Remove spark plug wire from spark plug
  (See Figure 9).
- Remove spark plug from burner head using
  medium phillips screw driver.
- Clean and regap spark plug electrodes to
  0.14" (3.5mm) gap.
- Reinstall spark plug in burner head.
- Attach spark plug wire to spark plug.
- Reinstall upper shell.

D.) NOZZLE
REMOVE DIRT IN NOZZLE AS NEED (See page 14)
- Remove upper shell (See page 9).
- Remove fuel line from solenoid valve using
  1/4" wrench.
- Remove spark plug wire from spark plug.
- Remove spark plug from burner head using medium
  phillips screw driver.
- Remove five screws using medium phillips screwdriver
  and remove burner head from
  combustion chamber.
- Carefully remove nozzle from burner head
  using 5/8" socket wrench.
- Blow compressed air through face of
  nozzle. (this will remove any dirt in nozzle)
- Inspect nozzle for damage. If damaged
  or clogged, replace nozzle.
- Make sure plug is in place on burner
  head.
- Reinstall nozzle into burned head and
  tighten firmly. (175-200 inch-pounds)
- Reinstall spark plug in burner head.
- Attach burner head to combustion
  chamber.
- Attach spark plug wire to spark plug.
- Attach fuel line to solenoid valve
  tighten firmly.
- Replace upper shell.
E.) PHOTOCELL

CLEAN PHOTO CELL ANNUALLY OR AS NEEDED.
- Remove upper shell (See Page 9)
- Remove photocell from photocell Bracket and disconnect photocell from connector.
- Clean photocell lens with cotton swab.
- Inspect photocell lens for damage. If damaged, replace photocell.

Figure 11. Clean photocell Lens

F.) FUEL LINES

TIGHTENING FUEL LINES ANNUALLY OR AS NEEDED.
- Remove upper shell (See page 9).
- Use 1/4” wrench and tighten fuel lines (A) at solenoid valve and at pump. (See Figure 12)
- Remove fan guard (See Figure 13)
- Use 3/8” wrench and tighten fuel lines (B) at pump, pump fuel filter assembly.
- Reinstall fan guard.

Figure 12. Tighten fuel line
Figure 13. Remove Fan guard
G.) FUEL FILTER

CLEAN TWICE PER HEATING SEASON OR AS NEEDED.

- **Tank Fuel Filter**
  - Remove fan guard. (See page 11).  
  - Disconnect fuel line (B) from pump and pump fuel filter assembly with 3/8" wrench (See Figure 14).
  - Remove two screws that fix bracket-filter to shell lower and remove bracket-filter.
  - Carefully pry fuel filter loose from fuel tank with flat end of screwdriver.
  - Wash fuel filter and fuel lines with clean kerosene.
  - Replace fuel filter into fuel tank.
  - Replace bracket-filter to shell lower.
  - Connect fuel lines (B) to pump and pump fuel filter assembly.
  - Reinstall fan guard.

![Figure 14. Remove Tank Fuel Filter](image)

- **Pump Fuel Filter**
  - Remove fan guard. (See page 11)
  - Unscrew (C.W) filter bottom from filter top with adjustable pliers.
  - Remove fuel filter, gasket, magnet from filter bottom. (See Figure 15)
  - Wash filter bottom with clean kerosene.
  - Wipe inside of filter bottom dry with clean cloth.
  - Wash Fuel filter in clean kerosene.
  - Remove dirt attached magnet.
  - Put clean magnet, fuel filter and gasket back in filter bottom.
  - Tighten firmly.

![Figure 15. Fuel Pump Filter](image)
H.) PUMP PRESSURE ADJUSTMENT

- Remove pressure gauge plug from pump with 1/8" allen wrench.
- Install accessory pressure gauge to pressure gauge port. (See Figure 16)
- Start heater (See operation, page 6)
  Allow motor to reach full speed.
- Adjust pressure. (Using a small flat blade screw driver)
  Turn pressure adj. Screw to clock wise to increase pressure.
  Turn screw to counter clock wise to decrease pressure.
  Set pump pressure to 125 PSI.
- Stop heater (See operation, page 6)
- Remove pressure gauge. Replace pressure gauge plug in pressure gauge port.

NOTE: USE ONLY ORIGINAL EQUIPMENT REPLACEMENT PARTS.
USE OF ALTERNATE OR THIRD PARTY COMPONENTS WILL VOID ANY WARRANTY
AND MAY CAUSE UNSAFE OPERATING CONDITION.
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. Turn Fuse Cover COUNTERCLOCKWISE 45° using a flat blade screwdriver and remove Fuse from Fuse Holder.
3. Replace Fuse.

⚠️ WARNING: FIRE HAZARD
To avoid fire, Do not substitute with a higher or lower current rating.

4. Turn Fuse Cover CLOCKWISE 45° using a flat blade screwdriver while slightly pushing.

NOTE: Specified fuse rating: 250VAC/20A

Figure 17. Replacing Fuse
### 11. TROUBLE SHOOTING GUIDE

<table>
<thead>
<tr>
<th>TROUBLE</th>
<th>POSSIBLE CAUSE</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan does not turn when heater is plugged in and operating switch was in the &quot;ON&quot; position (Indicator lamp is on or flickering)</td>
<td>1. Thermostat setting is too low 2. Bad electrical connection between motor and MAIN PCB assembly</td>
<td>1. Turn thermostat control knob to a higher setting 2. Check electrical connections, See Wiring Diagram, page 15.</td>
</tr>
<tr>
<td>(Indicator lamp is flickering and room temp. display indicates &quot;E2&quot;)</td>
<td>1. Sensor Failure</td>
<td>1. Replace sensor See wiring diagram, page 15.</td>
</tr>
<tr>
<td>(Indicator lamp is flickering and room temp. display indicates &quot;E3&quot;)</td>
<td>1. Thermostat switch failure</td>
<td>1. Replace switch See wiring diagram, page 15.</td>
</tr>
<tr>
<td>Heater will not turn-on (Indicator lamp is off)</td>
<td>1. No electrical power 2. Blown fuse</td>
<td>1. Check to insure heater cord and extension cord are plugged in. Check power supply. 2. Replace safety fuse on cover display.</td>
</tr>
</tbody>
</table>
NEVER LEAVE THE HEATER UNATTENDED WHILE BURNING!

12. WIRING DIAGRAM
13. **SPECIFICATIONS**

![DFA400T2 Diagram]

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DFA400T2</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTU/Hr</td>
<td>400,000</td>
</tr>
<tr>
<td>Fuel Consumption-Gal./(c/Hr)</td>
<td>3.0(11.36)</td>
</tr>
<tr>
<td>Fuel Tank Capacity-Gal.(l)</td>
<td>29.0(110.0)</td>
</tr>
<tr>
<td>Pump Pressure PSI (kgf/cm²)</td>
<td>125(8.79)</td>
</tr>
<tr>
<td>Volts/Hz/Amps</td>
<td>120VAC/60/4.4</td>
</tr>
<tr>
<td>Phase</td>
<td>1</td>
</tr>
<tr>
<td>Size(D×W×H), Inch_(min)</td>
<td>52.5&quot;×31.4&quot;×32.8&quot;(1,334×798×834)</td>
</tr>
<tr>
<td>Weight lbs. (kg)</td>
<td>150(68.0)</td>
</tr>
</tbody>
</table>
NEVER LEAVE THE HEATER UNATTENDED WHILE BURNING!

14. EXPLODED PARTS DRAWING (DFA400T2 MODEL)

NOTE: SPECIFY MODEL NUMBER AND PART NUMBER WHEN ORDERING PARTS.
15. **PARTS LIST**

<table>
<thead>
<tr>
<th>KEY No.</th>
<th>DESCRIPTION</th>
<th>PART No.</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>1</td>
<td>Fuel Tank Assembly</td>
<td>DFA400T2 2151-0010-00</td>
<td>1</td>
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<tr>
<td>2</td>
<td>Fuel Drain Bolt</td>
<td>4329-0072-00</td>
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<td>3</td>
<td>Fuel Gauge</td>
<td>2156-0053-00</td>
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<td>4</td>
<td>Fuel Filter</td>
<td>3221-0009-00</td>
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<td>Fuel Cap</td>
<td>2151-0041-00</td>
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<td>6</td>
<td>Filler Neck Assembly</td>
<td>2155-0007-00</td>
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<td>7</td>
<td>Space Support</td>
<td>3713-0004-00</td>
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<td>Card Support</td>
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<td>Cord Bushing</td>
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<td>Power Cord</td>
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<td>Bushing Grommet(L)</td>
<td>3231-0012-00</td>
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<td>Shell Lower</td>
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<td>Flange Screw</td>
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<td>Line-Fuel</td>
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<td>Harness-Burner</td>
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<td>Burner Head Assembly</td>
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<td>30</td>
<td>Motor &amp; Pump Assembly</td>
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<td>31</td>
<td>P.C.B Assembly</td>
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<td>32</td>
<td>Cover Display</td>
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<td>Operating Switch</td>
<td>39A0-0209-00</td>
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<td>35</td>
<td>Fuse Holder</td>
<td>3930-0012-00</td>
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<td>Fuse</td>
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<td>Safe Guard Assembly</td>
<td>2153-0011-01</td>
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<td>38</td>
<td>Bracket-Filter</td>
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<td>42</td>
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<td>4325-0005-00</td>
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<td>43</td>
<td>Shell Upper</td>
<td>3111-0196-07</td>
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FOR TECHNICAL ASSISTANCE SEE YOUR LOCAL RETAILER OR CONTACT US AT:
EMAIL: TECHSVC@YOURHEATER.COM OR VISIT OUR WEBSITE AT WWW.YOURHEATER.COM
15. PARTS LIST (BURNER HEAD ASSEMBLY & MOTOR AND PUMP ASSEMBLY)

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

<table>
<thead>
<tr>
<th>KEY NO.</th>
<th>DESCRIPTION</th>
<th>PART NO.</th>
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<tbody>
<tr>
<td>1</td>
<td>Burner Head</td>
<td>3531-0012-00</td>
</tr>
<tr>
<td>2</td>
<td>Plug</td>
<td>3541-0060-00</td>
</tr>
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<td>3</td>
<td>Nozzle</td>
<td>SP-KFA1024</td>
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<td>4</td>
<td>Spark Plug</td>
<td>SP-KFA1009</td>
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<td>5</td>
<td>Fiber Washer</td>
<td>4349-0017-00</td>
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<td>6</td>
<td>Spring Washer</td>
<td>4342-0009-00</td>
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<td>7</td>
<td>Flange Bolt</td>
<td>4329-0013-00</td>
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<td>8</td>
<td>Nipple-Straight</td>
<td>3541-0057-00</td>
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<td>9</td>
<td>Solenoid Valve</td>
<td>39A0-0084-00</td>
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<td>10</td>
<td>Elbow Male</td>
<td>3740-0037-00</td>
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Figure 18. Burner Head Assembly

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<tr>
<th>KEY NO.</th>
<th>DESCRIPTION</th>
<th>PART NO.</th>
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<td>1</td>
<td>Motor</td>
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<td>2</td>
<td>Supportor-Motor</td>
<td>3121-0334-00</td>
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<td>3</td>
<td>Bolt(HH)</td>
<td>4321-0182-00</td>
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<td>4</td>
<td>Nut Lock</td>
<td>4331-0022-00</td>
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<td>5</td>
<td>Coupling-Pump</td>
<td>3531-0013-00</td>
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<td>6</td>
<td>Gear Pump</td>
<td>3740-0026-00</td>
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<tr>
<td>7</td>
<td>Bolt-Headless Socket</td>
<td>4323-0004-00</td>
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<td>8</td>
<td>Filter Oil Assembly</td>
<td>3740-0034-00</td>
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<td>9</td>
<td>Elbow Male</td>
<td>3740-0044-00</td>
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<td>10</td>
<td>Fitting-Straight</td>
<td>3740-0039-00</td>
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<td>Holder Condensor</td>
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<td>Bushing Grommet</td>
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<td>Cover Condensor</td>
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<td>Flange Screw</td>
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<td>15</td>
<td>Capacitor</td>
<td>3820-0144-00</td>
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Figure 19. Motor and Pump Assembly
NEVER LEAVE THE HEATER UNATTENDED WHILE BURNING!

15. PARTS LIST (Wheel and Handle)
NOTE: SPECIFY MODEL NUMBER AND PART NUMBER WHEN ORDERING PARTS.

<table>
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<tr>
<th>KEY NO.</th>
<th>DESCRIPTION</th>
<th>PART NO.</th>
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<tbody>
<tr>
<td>1</td>
<td>Wheel Support Frame</td>
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<td>Handle</td>
<td>3551-0036-00</td>
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<td>3</td>
<td>Cord Wrap</td>
<td>3221-0052-00</td>
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<td>4</td>
<td>Threaded Axle</td>
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<td>Wheel</td>
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<td>Screw (S)</td>
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<td>6-3</td>
<td>Nut</td>
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<td>Cap Nut(S)</td>
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<td>Flat Washer</td>
<td>INCLUDED IN HARDWARE KIT</td>
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<tr>
<td>6-7</td>
<td>Cap Nut(L)</td>
<td>INCLUDED IN HARDWARE KIT</td>
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