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INSTALLATION AND OPERATION INSTRUCTIONS

RFPA10C CONSTRUCTION HEATER FLOOR MODEL

WHAT TO DO IF YOU SMELL GAS

*Do not try to light any appliance.

*Do not touch any electrical switch; do not use any phone in your building.

*Immediately call your gas supplier from a neighbors phone. Follow the gas supplier's instructions.

*If you cannot reach your gas supplier, call the fire department.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

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SECTION 1: RFPA10C GENERAL INFORMATION

INSTALLER: This manual is the property of the owner. Please present this manual to the owner when you leave the job site.

This heater is a self-contained infrared floor model heater for use in the temporary heating of buildings under construction, repair or alteration.

⚠ GENERAL HAZARD WARNING:

FAILURE TO COMPLY WITH THE PRECAUTIONS AND INSTRUCTIONS PROVIDED WITH THIS HEATER, CAN RESULT IN DEATH, SERIOUS BODILY INJURY AND PROPERTY LOSS OR DAMAGE FROM THE HAZARDS OF FIRE, EXPLOSION, BURN, ASPHYXIATION, CARBON MONOXIDE POISONING, AND/OR ELECTRICAL SHOCK.

ONLY PERSONS WHO CAN UNDERSTAND AND FOLLOW THE INSTRUCTIONS SHOULD SERVICE THIS HEATER.

IF YOU NEED ASSISTANCE WITH THIS HEATER OR INFORMATION SUCH AS AN INSTRUCTIONS MANUAL, LABEL, ETC. CONTACT THE MANUFACTURER.

⚠ WARNING: FIRE, BURN, INHALATION, AND EXPLOSION HAZARD. KEEP SOLID COMBUSTIBLES, SUCH AS BUILDING MATERIALS, PAPER OR CARDBOARD, A SAFE DISTANCE AWAY FROM THE HEATER AS RECOMMENDED BY THE INSTRUCTIONS. NEVER USE THE HEATER IN SPACES WHICH DO OR MAY CONTAIN VOLATILE OR AIRBORNE COMBUSTIBLES, OR PRODUCTS SUCH AS GASOLINE, SOLVENTS, PAINT THINNER, DUST PARTICLES OR UNKNOWN CHEMICALS.

⚠ WARNING: NOT FOR HOME OR RECREATIONAL USE.

INSTALLATION REQUIREMENTS

The heater is designed and approved for use as a construction heater in accordance with Standard ANSI Z83.7 - CGA 2.14. CHECK WITH YOUR LOCAL FIRE SAFETY AUTHORITY IF YOU HAVE ANY QUESTIONS ABOUT APPLICATIONS. Other standards govern the use of fuel gases and heat producing products in specific applications. Your local authority can advise you about these.

This heater is intended for use in the temporary heating of buildings or structures under construction, alteration or repair.

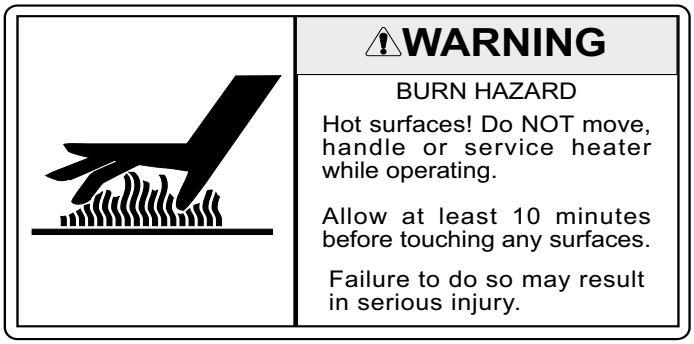
Installation of this heater must be in accordance with all applicable codes shown in the instructions and/or the local codes and authorities having jurisdiction. Heaters shall be installed by a licensed contractor or licensed installer. Clearances to combustibles as outlined in this manual should always be observed.

Every heater shall be located with respect to building construction and other equipment so as to permit access to the heater. Each installer shall use good installation practices when locating the heater and must give consideration to service accessibility. The heater should be inspected before each use, and at least annually by a qualified service person.

This heater is for INDOOR INSTALLATION ONLY. While the products of combustion are expelled into the building, national codes require ventilation in the building to dilute these products of combustion. This ventilation may be provided by gravity or mechanical means. Refer to Section 8 “VENTILATION AND COMBUSTION AIR” on page 7 of this manual for minimum requirements for ventilation and combustion air.

The heater must not be installed where it is directly exposed to water spray, rain and/or dripping water.

Copies of the National Fuel Gas Code (ANSI Z223.1 - latest edition) are available from the American Gas Association Laboratories, 8501 E. Pleasant Valley Road, Cleveland, OH 44131. All NFPA codes are available from the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.



SECTION 2: SPECIFICATIONS

Table 1: Model input rating

MODEL NO	GAS TYPE	INPUT BTU/HR	ORIFICE SIZE
RFPA10C	NATURAL	100,000	#12 (.1890)
RFPA10C	PROPANE	95,000	7/64 (.1094)

Gas Pipe connection: 1/2" NPT Female

MODEL SUFFIXES:

N Natural Gas

L Propane Gas

6 Standing Pilot Ignition, 100% Safety Shutoff, Manual Valve (Baso)

6C Standing Pilot Ignition, 100% Safety Shutoff, Manual Valve (White-Rodgers)

9A Standing Pilot Ignition, 100% Safety Shutoff, Thermostatic Controlled Valve (Robertshaw)

Table 2: Model Dimensions

DIMENSIONS	RFPA10C
HEATER	18"Dia. x 32-3/4"
PACKAGED	18-1/2" x 18-1/2" x 34"
SHIPPING WEIGHTS	55 LBS.

SECTION 3: ADDING OPTIONAL REFLECTOR

A 180° reflector can be used where it is desirable to direct the heat into a specific work area. This may be ordered as an accessory item, Part No. 0431003 for Model RFPA10C.

INSTALLATION INSTRUCTIONS

3.1. Loosen and remove the 1/2-13 hex nut and washer from the heater assembly.

3.2. Lift the head from the heater.

3.3. Place reflector on outside of expanded metal guard with bottom edge inside lip of the base head assembly.

3.4. Replace upper head with lip over the expanded guard and reflector.

3.5. Re-secure with the nut and washer

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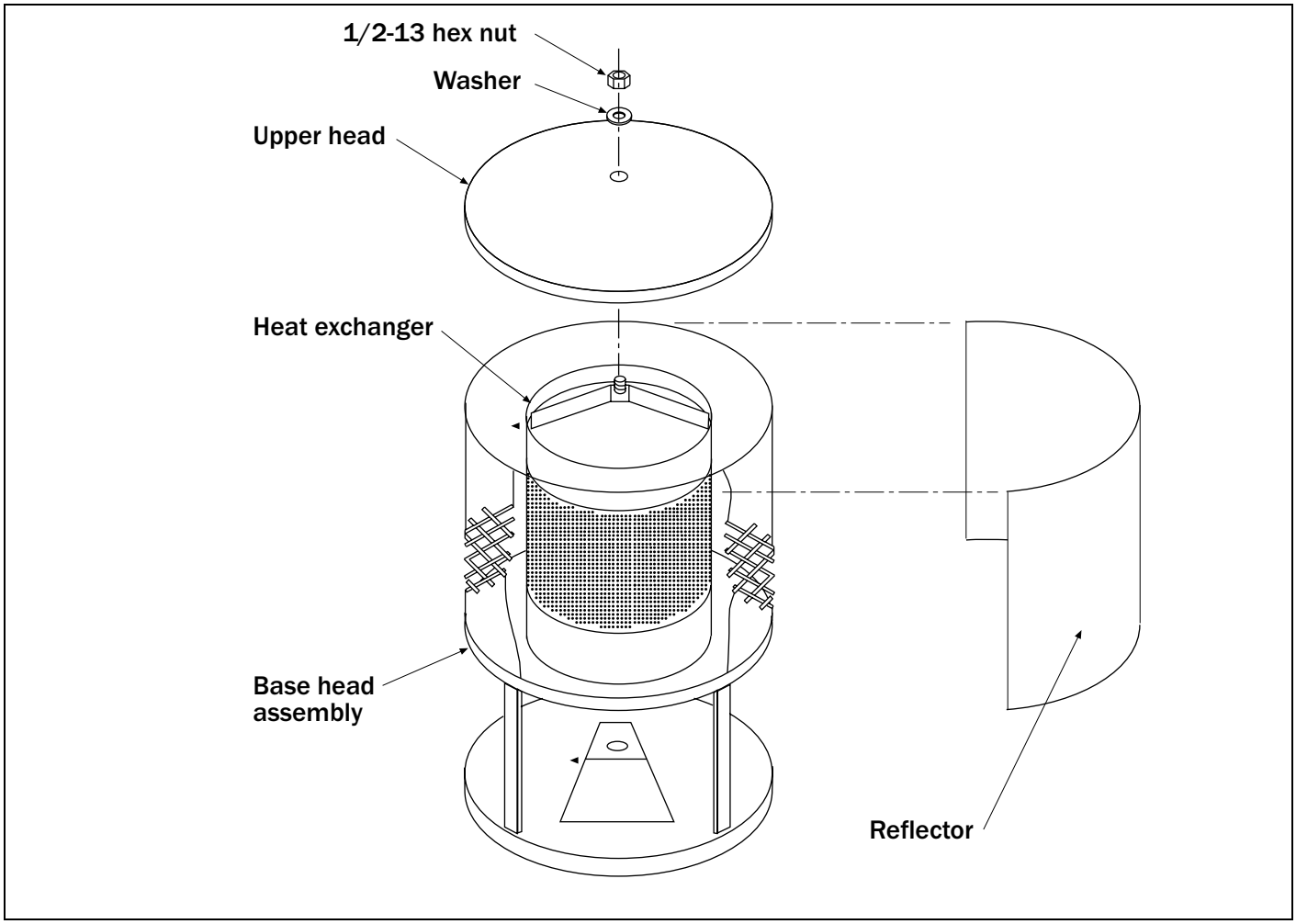
Figure 1: Optional reflector assembly



SECTION 4: MINIMUM CLEARANCES TO COMBUSTIBLES

The heater shall be operated only on a NON-COMBUSTIBLE, level floor. Minimum clearances to combustible walls and ceilings are listed below:

Table 3: RFPA10C Clearances to combustibles

MODEL RFPA10C	FRONT	SIDES	REAR	TOP	CLEARANCE FROM PROPANE CYLINDER
WITH REFLECTOR	120"	60"	48"	54"	10 FEET
WITHOUT REFLECTOR	--	60"	--	54"	10 FEET

SECTION 5: GAS CONNECTIONS AND REGULATION

5.1. The installation must conform with local codes, or in absence of local codes, with the standard for the storage and handling of Liquefied Petroleum Gases, ANSI/NFPA 58 and the Natural Gas and Propane Installation Code, CSA B149.1.

5.2. This heater is intended for construction heating and it must never be used for residential/domestic heating.

5.3. Connect to the supply tank or manifold in accordance with the latest edition of National Fuel Gas Code (ANSI Z223.1/NFPA 54) and local building codes. Authorities having jurisdiction should be consulted before the installation is made.

5.4. Pipe joint compounds must be resistant to the action of liquefied petroleum gases.

5.5. Where local codes do not prohibit, a C.S.A or U.L. approved flexible connection is recommended between the rigid piping and the heater. A union and an approved shut-off valve should be installed before the control valve inlet. The shut-off valve should be installed within 6 feet of the union.

5.6. This appliance is equipped with a manual gas valve and an appliance regulator. The maximum supply pressure to the appliance is 14" W.C. or ½ P.S.I. If the line pressure is more than the maximum supply pressure, then use a line regulator which corresponds to the supply pressure.

5.7. After gas connections have been made, make sure the heater and all gas outlets are turned off before the main gas supply is turned on. Turn the gas pressure on and check for leaks. To check for leaks, apply a solution of soap suds to all connections and joints or check by one of the methods listed in Appendix D of ANSI Z223.1/NFPA 54 (latest edition) Natural Fuel Gas Code. DO NOT USE AN OPEN FLAME OF ANY KIND TO TEST FOR LEAKS.

SECTION 6: INSTRUCTIONS FOR PRESSURE TEST GAUGE CONNECTION

6.1. Supply Pressure: Installer to provide a 1/8" N.P.T. plugged tapping, accessible for test gauge connection immediately upstream of the gas supply connection to the heater.

6.2. Manifold Pressure: Turn gas valve to "OFF" position. Remove 1/8" plug from manifold downstream from the valve and connect 1/8" nipple to the tapped hole. Connect gauge to nipple. Turn on the gas supply.

6.3. With the main burner operating, check burner manifold pressure using a water manometer (see Table 4 on page 4 for correct setting pressures). If adjustment is required, remove cover screw of the appliance regulator. Using a small screwdriver, turn adjustment screw clockwise to increase or counter-clockwise to decrease gas pressure to burner. Replace cover screw.

6.4. Gauges which measure in pounds per square inch or ounces per square inch are not accurate enough to measure or set the manifold pressure. Use a water manometer.

Table 4: Gas supply pressures

GAS TYPE	MANIFOLD PRESSURE	MINIMUM*	MAXIMUM
Natural	3.5" W.C.	5" W.C.	14" W.C.
Propane	10" W.C.	11" W.C.	14" W.C.

*Minimum permissible gas supply pressure for purpose of input adjustment.

SECTION 7: INFORMATION FOR LP GAS FLOOR MODEL HEATERS ONLY

Heaters used with LP gas must be installed in accordance with the latest edition of the National Fuel Gas Code -NFPA54, Standard for the Storage and Handling of LP Gas - NFPA 58, all state and local codes or the authority having jurisdiction. See Section 7.1 “LP models only - Regulator and hose assembly instructions” on page 5 for specific LP connection information.

The heater must be connected to the tank or cylinder by a UL Listed hose assembly or hard piping. A 15 foot assembly of UL Listed hose is included with each heater from Space-Ray under Part No. 3052202. A single stage LP gas regulator (operation range: 10-150 PSIG inlet and 11.0" W.C. outlet) having a POL fitting with an excess flow valve is included with each hose assembly as Part No. 3052400 (LP Cylinder Kit).

The hose assembly must be visually inspected prior to each use of the heater. If it is evident there is excessive abrasion or wear, or the hose is cut, it must be replaced prior to the heater being put into operation. The replacement hose must a UL Listed hose assembly.

The volume of a given quantity of liquid LP gas in a container is directly related to its temperature. As a result, the vaporization rate of a tank or cylinder will decrease as the temperature drops and as the percentage of liquid in the container becomes smaller. Table 5 on page 5 shows the approximate vaporization rate of a 100 lb. cylinder.

Table 5: Maximum Continuous Flow in BTU/Hr. At Various Temperatures (Degrees F)

Lbs. of Propane in Cylinder	20°F	40°F	60°F	70°F
100	167,000	214,000	277,000	300,000
80	137,000	180,000	214,000	236,000
60	109,000	140,000	176,000	197,000
40	**	105,000	131,000	141,000
30	**	**	107,000	118,000

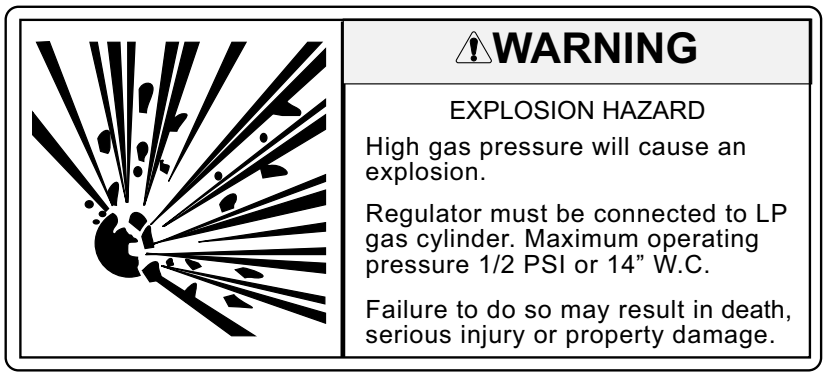
** Rate of vaporization drops below the heater input rate.

WARNING: Due to the continuous length of time the heater might be in operation, a 100 lb. LP gas cylinder may not be sufficient in size. Manifolding several cylinders together is a practical way of increasing the time of operation of these heaters. Operation of the heater with insufficient sized cylinders or when the liquid level becomes too low will result in poor heater performance and can cause sooting. Consult your LP gas dealer for proper sizing of container.

Always turn the gas off at the tank or cylinder when the heater is not in use. When in operation, keep the heater a safe distance from the LP gas container and combustible materials as indicated on the heater and in the instructions. Fasten LP cylinders securely so they cannot be knocked over.

When the heater is to be stored indoors, the connection between the propane supply cylinder(s) and the heater must be disconnected and the cylinder(s) removed from the heater and stored in accordance with the Standard for the Storage and Handling of Liquefied Petroleum Gases, ANSI/NFPA 58 and CSA B149.1, Natural Gas and Propane Installation Code.

7.1. LP models only - Regulator and hose assembly instructions



7.1.1. Attach the POL fitting on the regulator to the LP gas tank / cylinder as shown in Figure 2 "Regulator and hose assembly" on page 6. Use a wrench to tighten the connection.

*Note:*This fitting has left hand threads (like a gas barbecue and tank). Screw the POL fitting counter-clockwise.

CAUTION: DO NOT try to overtighten this connection. Overtightening may damage the “Excess flow control safety device” in the POL fitting regulator.

7.1.2. Remove the plastic cap from the end of the 3/8” flare fitting. Connect the 3.8” flare swivel nut on the end of the regulator/hose assembly to the 3/8” flare tube fitting on the burner assembly, as shown in Figure 2 ”Regulator and hose assembly” on page 6. Use two wrenches to tighten this connection, screwing the swivel nut clockwise onto the supported 3/8” flare fitting.

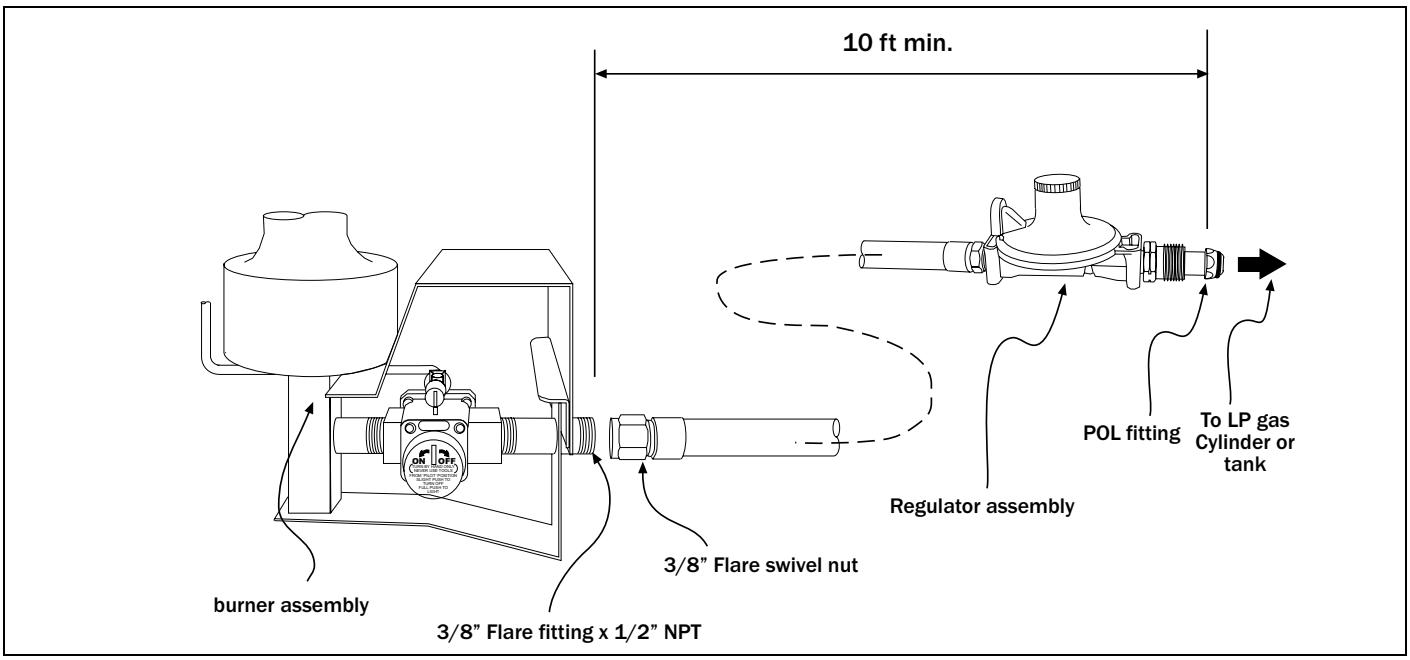
7.1.3. After all the connections are made, they must be checked for leaks prior to operation. The following instructions describe the leak checking procedure.

i. Make sure the control knob on the heater is turned to “OFF” prior to opening the valve on the LP tank/cylinder.

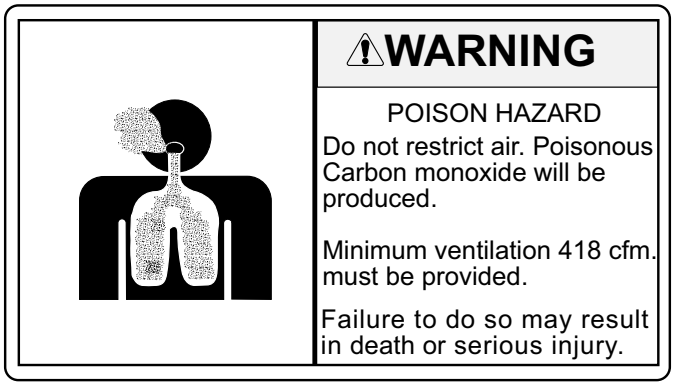
ii. Open the tank/cylinder valve fully (turn tank knob counterclockwise). Apply a rich soap and water solution to the POL fitting into the tank/cylinder as well as the 3/8” flare swivel fitting at the heater. Bubbles indicate leaks which must be fixed before the heater is operated.

iii. Tighten the joints to stop any leaks. Repeat steps i. and ii. after any tightening. If you are unable to stop the leaks, DO NOT operate the heater. Contact your local LP dealer.

Figure 2: Regulator and hose assembly



SECTION 8: VENTILATION AND COMBUSTION AIR



This heater requires ventilation in the building to dilute the products of combustion and provide fresh air for combustion. The minimum recommended vent flow required is 418 cfm.

The combustion air enters through the heater base and must not be restricted. DO NOT block or enclose any part of the heater base. All ventilation in the building must be at a level above the height of the heater.

SECTION 9: LIGHTING AND SHUTDOWN INSTRUCTIONS

9.1. MODELS WITH IGNITION SUFFIX "-6"

9.1.1. Pull lock and turn gas control knob to "OFF" position. Allow 5 minutes for any gas to escape before lighting.
9.1.2. Pull lock and turn gas control knob to "PILOT" position. Push down on flow index button and light the pilot with a match. Hold this knob down for approximately 30 seconds after lighting the pilot.
9.1.3. When the flow index button is released, the pilot should continue to burn. If the pilot goes out, repeat Steps 1 and 2 again.
9.1.4. Rotate the gas control knob from "PILOT" to "ON". The main burner will ignite.
9.1.5. If the main or pilot burners extinguish, turn the gas control knob to the "OFF" position, wait 5 minutes and repeat the above lighting procedure.

9.2. MODELS WITH IGNITION SUFFIX "-6C"

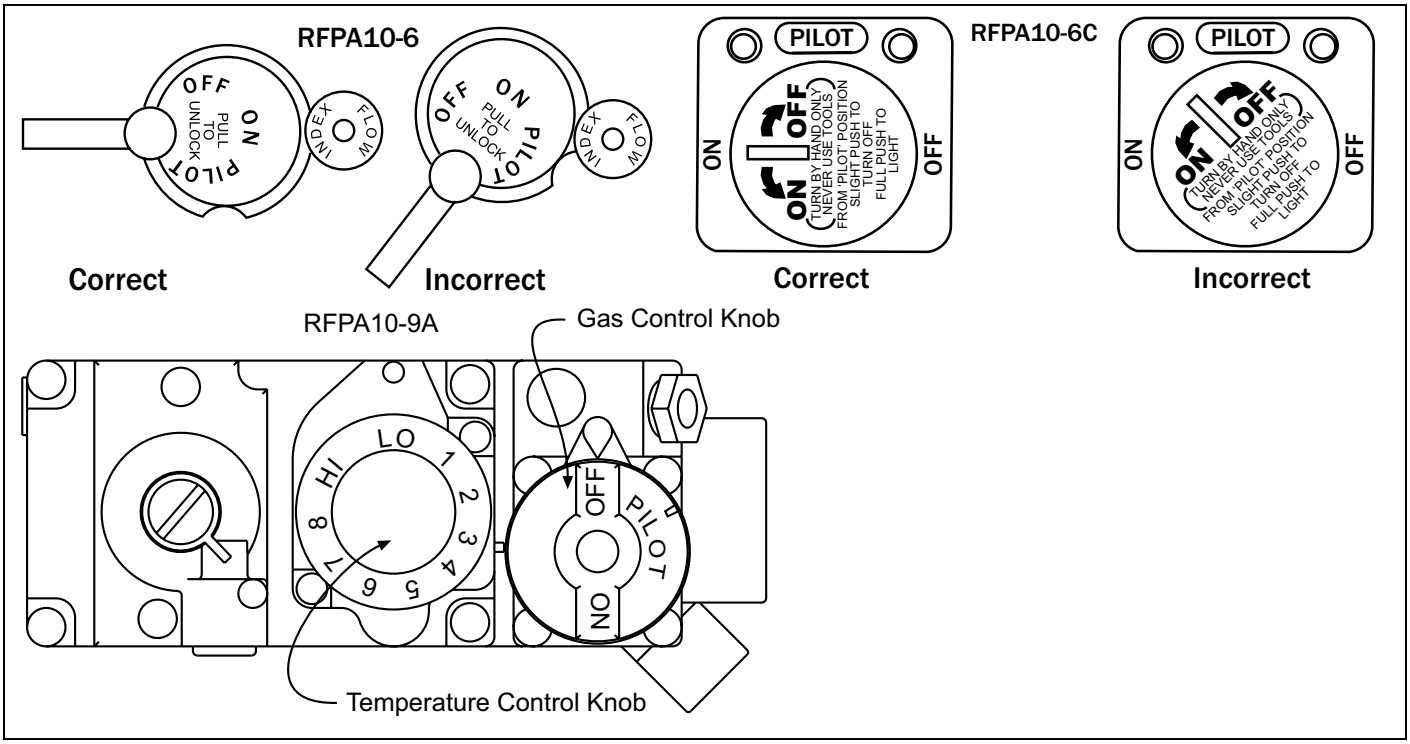
9.2.1. Turn gas control knob to "OFF" position. Allow 5 minutes for any gas to escape before lighting.
9.2.2. Turn gas control knob to "PILOT" position. Push down on gas control knob and light the pilot with a match. Hold this knob down for approximately 60 seconds after lighting the pilot.
9.2.3. When the gas control knob is released, the pilot should continue to burn. If the pilot goes out, repeat Steps 1 and 2 again.
9.2.4. Push the knob down slightly and rotate the gas control knob from "PILOT" to "ON". The main burner will ignite.
9.2.5. If the main or pilot burners extinguish, depress and turn the gas control knob to the "OFF" position, wait 5 minutes and repeat the above lighting procedure.

CAUTION: DO NOT OPERATE MAIN BURNER AT ANY SETTING LESS THAN FULL "ON" POSITION. SOOTING WILL OCCUR!

9.3. MODELS WITH IGNITION SUFFIX "-9A"

9.3.1. Turn gas control knob to "OFF" position. Allow 5 minutes for any gas to escape before lighting.
9.3.2. Turn gas control knob to "PILOT" position. Push down on gas control knob and light the pilot with a match. Hold this knob down for approximately 60 seconds after lighting the pilot.
9.3.3. When the gas control knob is released, the pilot should continue to burn. If the pilot goes out, repeat Steps 1 and 2 again.
9.3.4. Rotate the gas control knob from "PILOT" to "ON". The main burner will ignite.
9.3.5. If the main or pilot burners extinguish, depress and turn the gas control knob to the "OFF" position, wait 5 minutes and repeat the above lighting procedure.
9.3.6. Turn the temperature control knob to the desired setting.

Figure 3: Gas control knob setting position



SECTION 10: CLEANING AND ANNUAL MAINTENANCE

This heater must be cleaned and serviced at least once before the start of each heating season or at any time the infrared emitter show signs of collecting any foreign material on its surface. Maximum heating efficiency and clean combustion will be maintained by keeping the emitter and burner clean. To clean the heater follow these instructions:

10.1. Turn off the gas supply to the heater.

10.2. Remove and clean the burner.

10.2.1. Remove the three (3) piece burner alignment brackets.
10.2.2. Unscrew the burner from burner fitting on which it is mounted.
10.2.3. Remove three (3) fillister head screws holding burner cap in place.
10.2.4. Burner ports are formed by grooves on underside of burner cap; burner ports may be cleaned with a wire brush.
10.2.5. Removal of burner cap also makes mixing tube of burner accessible for cleaning with a round wire brush.
10.2.6. After cleaning, re-assemble burner cap on burner base with the three (3) 8 - 32 fillister head screws.
10.2.7. Screw burner all the way down on burner fitting and install burner alignment brackets.

10.3. If the emitter shows any accumulation of material in the ports, remove the heater top and the expanded metal guard to expose the emitter and use a high pressure air hose to blow the ports clean. If this does not clean the holes, remove the four (4) screws holding the emitter to its mounting ring and remove the emitter so that it can be cleaned both inside and out with a wire brush and then blown out with a high pressure air hose.

10.4. Inspect the pilot burner and remove any foreign material with a brush or an air hose.

10.5. Reassemble the heater, test all connections for leaks and test the heater to be sure it is now operating properly.

SECTION 11: REPLACING PARTS

At all times when parts are being replaced, ensure that both gas and electrical supplies are disconnected.

Various parts are available from the factory for replacement by a licensed service person. Refer to exploded parts guide in Section 12 for all replacement parts.

Date of Installation _____

Heater Model Number RFPA _____ - _____N = Natural Gas

Heater Serial Number _____L = Propane Gas

SECTION 12: REPLACEMENT PARTS LIST - RFPA10C

Table 6: Replacement parts

ITEM No.	PART NO.	DESCRIPTION	MODEL USED ON
1	0212715	Nut - Hex 1/2-13	RFPA10C (All models)
2	0212916	Washer - Flat 1/2	RFPA10C (All models)
3	0411400	Upper Head	RFPA10C (All models)
4	0459302	Expanded Metal Guard (Short)	RFPA10C (All models)
5	0436202	Heat Exchanger Assembly (Short)	RFPA10C (All models)
6	0438000	Main Burner Assembly (Complete)	RFPA10C (All models)
7	4185900	Burner Cap	RFPA10C (All models)
8	4185800	Burner Base	RFPA10C (All models)
9	4058400	Burner Alignment Bracket Assembly	RFPA10C (All models)
10	0409401	Shutter Plate - Fixed	RFPA10C (All models)
11	0478301	Base Assembly	RFPA10C (All models)
12	4180602	Label mounting Plate	RFPA10C (All models)
13	4184700	Washer - Burner Fitting	RFPA10C (All models)
14	0224701	Machine Screw 1/2-13 x 1	RFPA10C (All models)
15	4179502	Pilot Shield - Outer	RFPA10C (All models)
16	4179501	Pilot Shield - Inner	RFPA10C (All models)
17	0339902	Pilot Burner & Orifice Fitting - Nat. #J129DDA3223	RFPA10C-N6,N6C,N9A
18	0339903	Pilot Burner & Orifice Fitting - LP #J129DDA4212	RFPA10C-L6,L6C,L9A
19	0334501	Pilot Orifice - Nat (.023") #Y90AA - 3223	RFPA10C-N6,N6C,N9A
20	0334502	Pilot Orifice - LP (.012") #Y90AA - 4212	RFPA10C-L6,6C,L9A
21	0343700	Pilot Burner less Orifice #J129DDA	RFPA10C (All models)
22	0340103	Thermocouple	RFPA10C (All models)
23	4179900	Pilot Tubing - White-Rodgers Valve	RFPA10C-6C
24	0465900	Pilot Tubing - Baso Valve	RFPA10C-6
25	4313701	Pilot Tubing - Robertshaw Valve	RFPA10C-9A
26	0352700	Break Away Fitting - Comes w/Valve and Pilot Orifice	RFPA10C (All models)
27	0333902	Plug - 1/8" (Pressure Tap)	RFPA10C (All models)
28	4183400	Burner Fitting Assembly	RFPA10C (All models)
29	0325812	Main Burner Orifice (Nat.) #12	RFPA10C-N6,N6C,N9A
30	0325891	Main Burner Orifice (LP) 7/64"	RFPA10C-L6,L6C,N9A

Table 6: Replacement parts

ITEM No.	PART NO.	DESCRIPTION	MODEL USED ON
31	3009101	Gas Valve - White-Rodgers	RFPA10C-6C
32	0369500	Gas Valve - Baso	RFPA10C-6
33	3064001	Gas Valve - Robertshaw (Nat 3.5" w.c.)	RFPA10C-N9A
34	3064000	Gas Valve - Robertshaw (LP 10" w.c.)	RFPA10C-L9A
35	0330710	Regulator - RV48 (Nat.) 1/2" x 1/2"	RFPA10C-N6,N6C
36	3052400	*Regulator - 230 (LP) POL x 3/8" (Not Shown)	RFPA10C-L6,L6C,L9A
37	0333310	Nipple 1/2 x 3	RFPA10C-6C
38	0333304	Nipple 1/2 x 1/2	RFPA10C-N6
39	3024101	Flare Fitting 3/8" Tube x 1/2" NPT	RFPA10C-L6,L9A
40	3063301	Flare Fitting 3/8" Tube x 1/2" FPT	RFPA10C-L6C
41	3052803	Adaptor Fitting 1/2" FPT x 1/2" NPT	RFPA10C-N9A
42	4313600	Manifold Support	RFPA10C-6,6C
43	4313605	Manifold Support	RFPA10C-9A
44	4135704	Instruction Manual (Not Shown)	RFPA10C (All models)
45	4184801	Control Arm Kit - Nat. (Not Shown) - Baso	RFPA10C-N6
46	4184805	Control Arm Kit - LP (Not Shown) - Baso	RFPA10C-L6
47	4178301	Control Arm Kit - Nat. (Not Shown) - White Rodgers	RFPA10C-N6C
48	4178303	Control Arm Kit - LP (Not Shown) - White Rodgers	RFPA10C-L6C
49	4313809	Control Arm Kit - Nat. (Not Shown) - Robertshaw	RFPA10C-N9A
50	4313810	Control Arm Kit - LP. (Not Shown) - Robertshaw	RFPA10C-L9A
51	4187005	Bulb Retainer (Not Shown)	RFPA10C-9A

MODEL NUMBER SUFFIXES

N - Natural Gas

L - LP Gas

6 - 100% Gas Shutoff Control - Manually Operated (Baso valve)

6C - 100% Gas Shutoff Control - Manually Operated (White-Rodgers valve)

9A - 100% Gas Shutoff Control - Thermostatically Operated (Robertshaw Valve)

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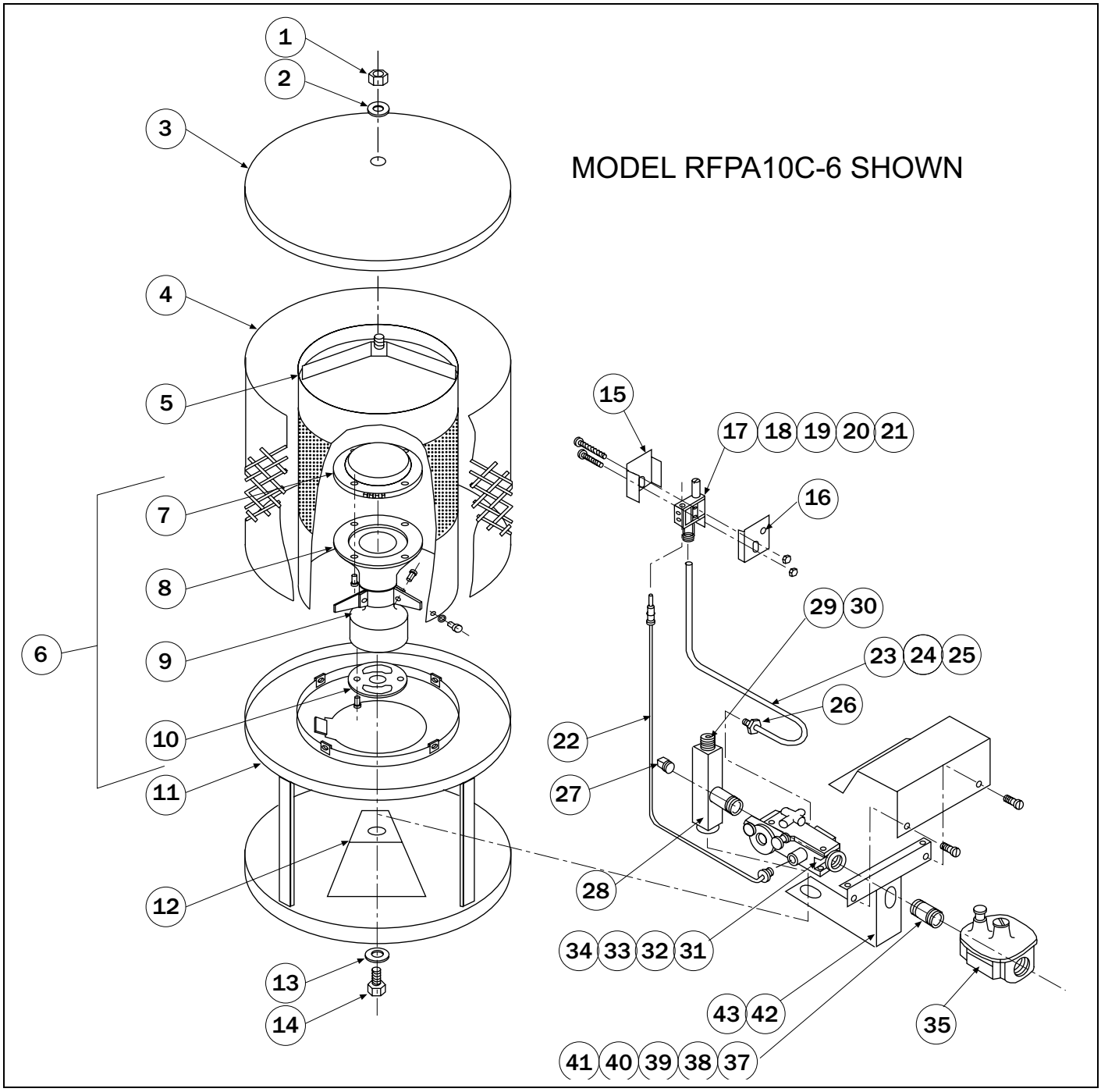
Figure 4: Replacement parts



IMPORTANT

PLEASE ORDER BY PART NUMBER - NOT BY ITEM NUMBER.

ALSO REFER TO COMPLETE MODEL NUMBER WHEN ORDERING.

ALL REPLACEMENT PART PRICES AVAILABLE WHEN ORDERING.