

# GORDON-RAY

## VENTED INFRARED RADIANT TUBE GAS HEATER

### INSTALLATION INSTRUCTIONS FOR

## MODEL RTH-150B HEATER



Roberts  Gordon

A LEADER IN HEATING EQUIPMENT FOR OVER 50 YEARS

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Subsidiary of A.J. Industries Inc.

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GRIMSBY, ONTARIO



# GORDON-RAY SPECIFICATIONS INSTALLATION, OPERATION, SERVICE & SPARE PARTS

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*INSTALLER — Please take time to read and understand these instructions prior to any installation.*

*OWNER — Keep this manual in a safe place to provide your serviceman with helpful information if the need arises.*

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## INTRODUCTION

### UNPACKING THE HEATER

Remove the heater carefully from the shipping carton so as not to damage any components. The unit is inspected and tested at the factory before shipment and is delivered to the carrier in good condition. Check the heater for possible damage in shipment. In case of damage, the carrier should be contacted immediately.

### GENERAL INFORMATION

It is important that these instructions and all applicable specifications be read in their entirety before proceeding.

This heater is intended for heating non-residential indoor spaces. Installation of this heater must comply with local codes and recommendations of the local gas company, and the National Fuel Gas Code, ANSI Z223.1-1988 (same as Bulletin No. 54). Units must be electrically grounded in accordance with the National Electrical Code, ANSI/NFPA 70-1987. Installation in (1) aircraft hangars must be in accordance with the Standard for Aircraft Hangars, ANSI/NFPA 409-1985 and (2) garages in accordance with the Standard for Parking Structures, NFPA 88A-1985 or the Standard for Repair Garages, NFPA 88B-1985.

For locations where there is the possibility of exposure to combustible airborne materials or vapor, consult the authorities having local jurisdiction to obtain approval for proposed installation. The authorities with local jurisdiction are usually the Fire Marshal and fire insurance carrier.

All heaters and associated gas piping should be installed in accordance with applicable specifications and this installation made only by firms (or individuals) well qualified in this type of work. Local authorities such as Building Inspectors or Fire Marshals should be consulted for guidance in this matter.

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**GENERAL SPECIFICATIONS**

General specifications for the RTH-150B heater are as follows:

**RATING:**

Natural Gas . . . . . 150,000 BTU/Hr. Input  
L.P. Gas . . . . . 140,000 BTU/Hr. Input

**GAS PRESSURE AT MANIFOLD:**

Natural Gas . . . . . 3.5" W.C.  
L.P. Gas . . . . . 10.5" W.C.  
Gas Connection Size . . . . . 1/2" NPT

**GAS INLET PRESSURE**

Gas	*Minimum	Maximum
Natural	4.5" W.C.	14.0" W.C.
L.P.	11.0" W.C.	14.0" W.C.

\*For purpose of input adjustment.

**ELECTRICAL RATING:**

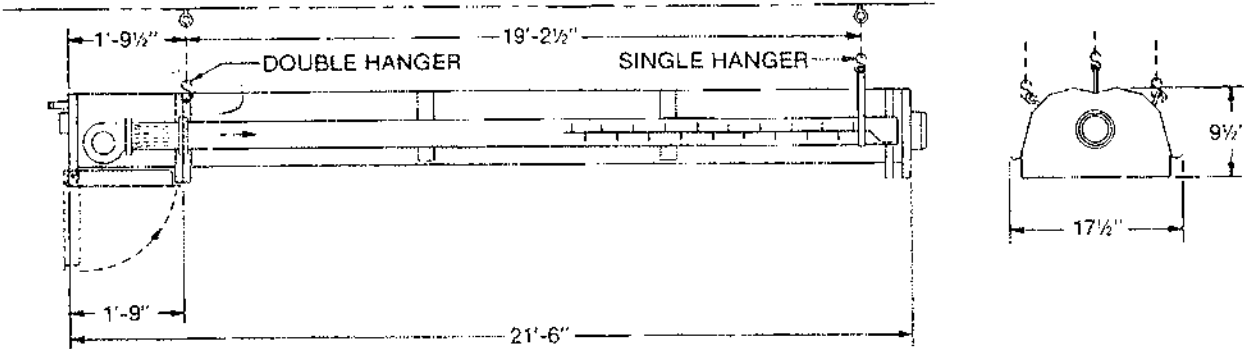
120V - 60Hz - 2.6 AMP  
Flue Connection Size . . . . . 6" O.D.  
Weight of Heater . . . . . 200 lbs.

**DIMENSIONS**

Refer to Figure 1 of these instructions for dimensional information.

STANDARD EQUIPMENT INCLUDES complete heater assembled, consisting of: Cast-iron burner, coated steel combustion chamber, heat exchanger, fully automatic controls, motor with thermal overload switch, balanced air rotor, five inch O.D. radiant tube with stainless steel air pre-heater and baffles; gas shut-off cock; aluminum reflector and built-in draft hood.

OPTIONAL: Thermostats, Reflector Side Extension.



**MODEL RTH-150B DIMENSIONS**  
**Figure 1**

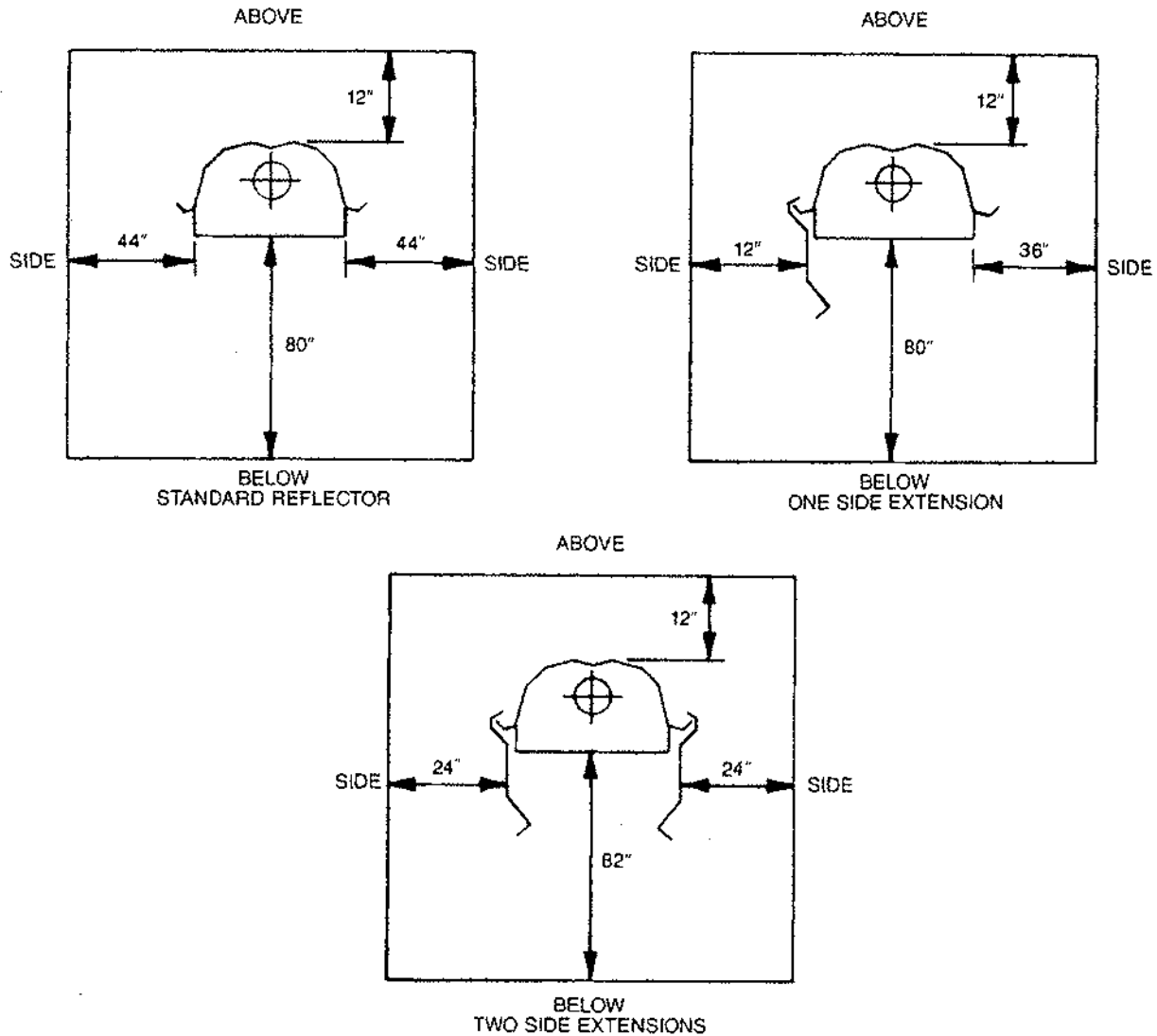
**CLEARANCE TO COMBUSTIBLES (From Heater Surfaces)**

Caution must be used when installing the heater near combustible materials such as wood, paper, rubber, etc. Consideration should be given to partitions, storage racks, hoists, building construction, etc. Figure 2 gives MINIMUM clearances.

**WARNING:** Minimum clearance from heater must be maintained from vehicles parked below heater.

**NOTE:** In all situations, clearances to combustibles must be maintained. Signs should be posted in storage areas to specify MAXIMUM stacking height to maintain required clearance to combustibles.

## INSTALLATION



### MODEL RTH-150B CLEARANCE TO COMBUSTIBLES WITH STANDARD REFLECTOR AND OPTIONAL EQUIPMENT

Figure 2

## INSTALLATION

### IN AIRCRAFT HANGARS

Heaters must be installed in accordance with specification ANSI/NFPA 409-1985 and with special consideration for the following:

1. Heaters in aircraft storage or service areas shall be installed at a height of at least 10 feet above the upper surface of wings or engine enclosures of the highest aircraft which may be housed in the hangar. (This should be measured from the bottom of the heater to the wing or engine enclosure, whichever is highest from the floor.)
2. In other sections of aircraft hangars, such as shops or offices communicating with airplane storage or servicing area, heaters shall be installed in accordance with their listings and not less than eight feet above the floor.
3. Heaters installed in aircraft hangars shall be so located as not to be subject to damage by aircraft, cranes, moveable scaffolding or other objects. Heaters shall be placed so they will be readily accessible for maintenance purposes.

### IN PUBLIC GARAGES

In accordance with the standard for parking structures NFPA 88A-1985 or the standard for repair garages NFPA 88B-1985.

1. Heaters shall be installed in accordance with their listings and not less than eight feet above the floor. Minimum clearances to combustibles must be maintained from vehicles parked below the heater.
2. When installed over hoists, clearance to combustible material must be maintained from top of vehicle on hoist or in elevated position.
3. Clearance between the heater and its vent and adjacent combustible material (which is part of the building or its contents) shall be maintained to conform with the standard for Installation of Gas Appliances and Gas Piping (NFPA No. 54 ANSI Z223.1-1988).

**IMPORTANT:** Heaters should be placed so they will be readily accessible for maintenance.

### INSTALLING THE HEATER

**IMPORTANT:** The type of gas appearing on the heater nameplate must be the type of gas used. Read all accompanying literature carefully before proceeding with installation. Allow for adequate clearances around air openings in heater, clearances to combustible materials, provide for accessibility for service, combustion and ventilating air supply as specified in ANSI Z223.1 National Fuel Gas Code.

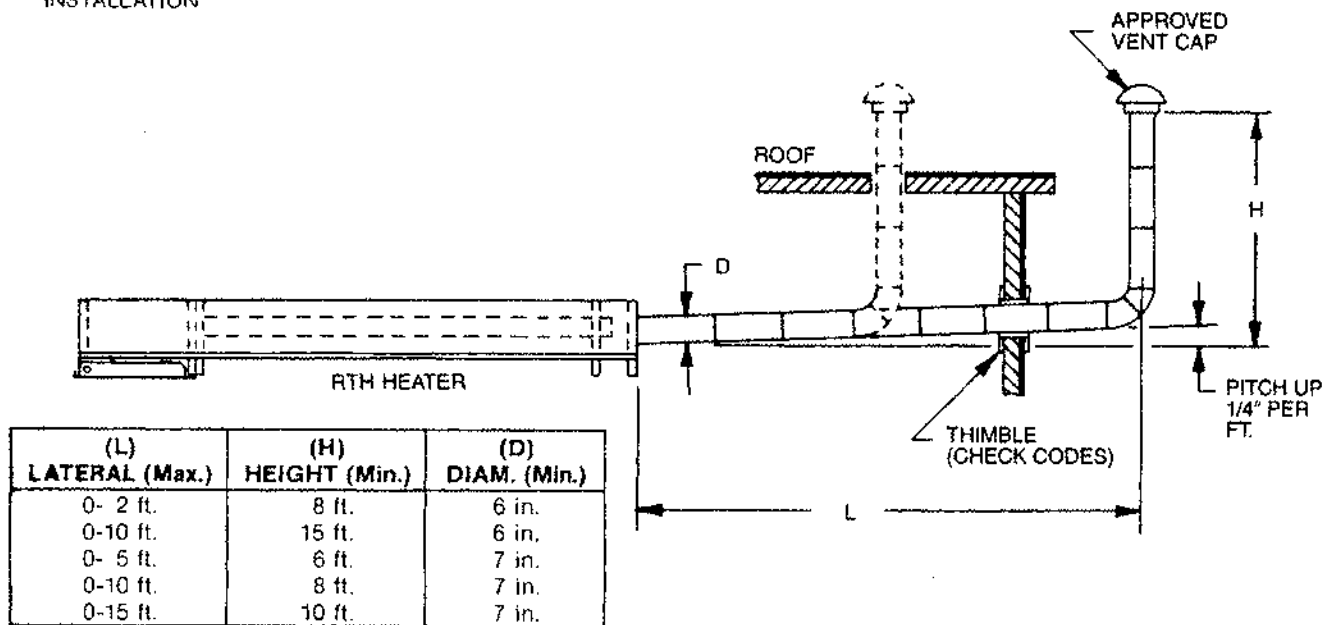
### HANGING THE HEATER

Suspension straps and "S" hooks provided with the heater should be used as the only suspension points. Chain should be used to support the unit between the ceiling and suspension straps provided. Chain should have a load rating of at least 400 lbs. at each suspension point. For instructions on mounting height and locations of heaters, refer to installation plans or supplier of equipment.

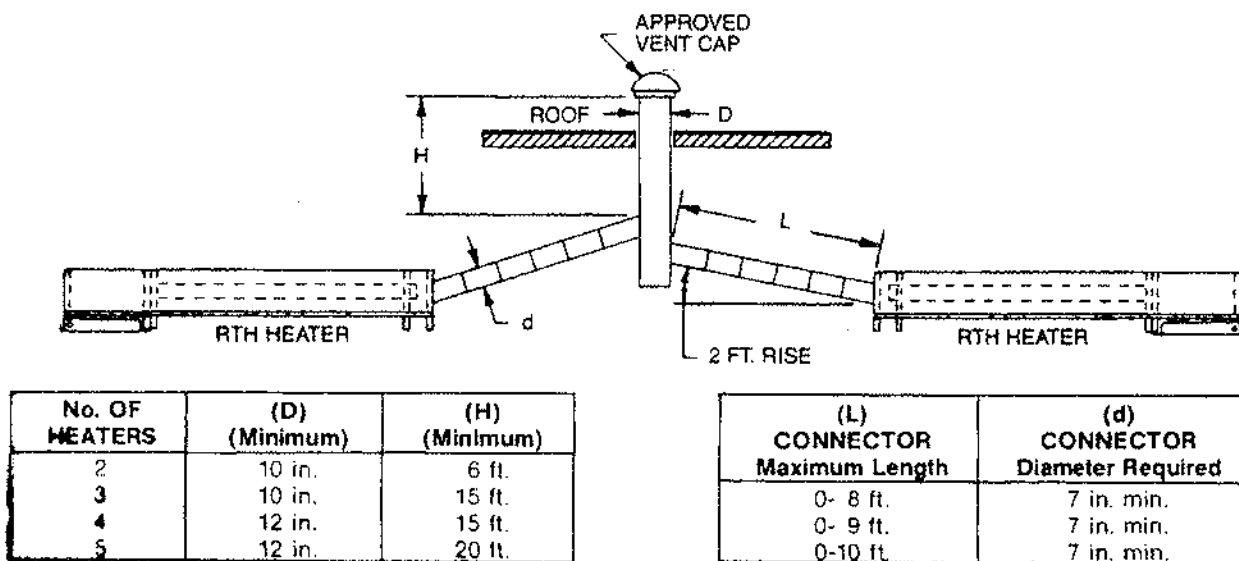
### VENTING

The venting must be installed in accordance with Specification ANSI Z223.1 (NFPA No. 54) National Fuel Gas Code. Partial information relating to this Specification is provided in this section with regard to size and configurations for venting arrangements (see following tables and diagrams). However, it is the responsibility of the installer to make the installation in strict accordance with National Fuel Gas Code ANSI Z223.1 to provide assurance of proper and safe operation.

RTH heaters are designed for outdoor venting. For best results RTH heaters should be vented individually or in groups of heaters with a common vent and controlled by a common thermostat. This reduces condensation and provides a stronger natural draft. The use of vent caps and positioning of the top of the vent with respect to roof structure should be in accordance with ANSI Z223.1. For other situations not covered here, the installer must consult ANSI Z223.1 or other sources to obtain the necessary information.



**INDIVIDUAL VENTING**  
Figure 3



**MULTIPLE VENTING**  
(Vent connectors into a common stack)  
Figure 4

**POWER VENTING**

Power venting should be used if conditions cannot be met for sizes and configuration as described herein, or if the heater is located in an area of negative pressure with respect to the point of discharge of flue products. For best results, all heaters connected to a common powered vent should meet both of the following conditions:

1. Be controlled by a single thermostat.
2. Be wired with an interlock circuit to preclude firing unless the power vent is operating. See Field Wiring Diagram (Figures 7 and 9).

A maximum of two (2) Model RTH-150B Heaters can be vented per power ventor R.G. P/N 90707500. This is for a distance up to 100 feet of equivalent length and a minimum duct diameter of six inches. The equivalent length is computed as actual length of straight sections plus 10 feet for 90 degree elbows, five feet for 45 degree elbows and 10 feet for Briedert cap or equivalent.



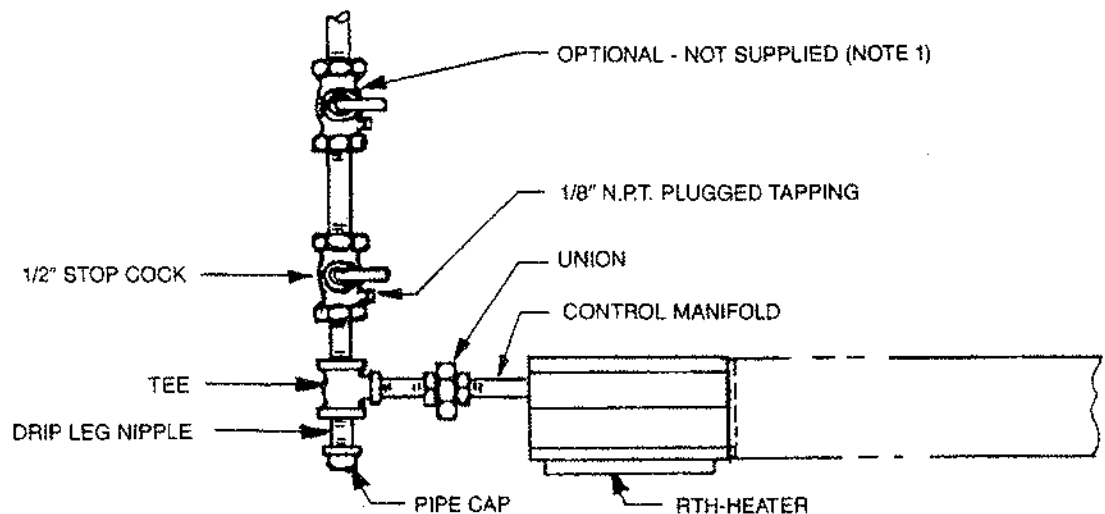
**GAS PIPING**

1. Check meter to be sure it is large enough to handle all the gas appliances on the line, including this heater. If necessary, request gas company to install a larger meter.
2. The gas line which feeds the heater(s) must be large enough to supply the required gas with a maximum pressure drop of 0.5 inches water column (w.c.). If there is any question, check with the gas company. Use the following capacity table as a guide:

Pipe Capacity @ 150 Cu. Ft./Hr. — Specific Gravity 0.6  
Pressure Drop — 0.5 Inches Water Column

PIPE SIZE	LENGTH OF STRAIGHT PIPE-Feet
¾"	84
1"	160
1¼"	325

3. All pipe should be properly supported by using suitable pipe hanging materials.
4. Wrought iron or wrought steel pipe and malleable iron fittings are recommended. All pipe fittings should be new and free from defects.
5. For L.P. Gases, see your L.P. Dealer for details on pipe or tubing sizes and general information on handling Liquefied Petroleum gases.
6. Ends of pipes and tubing should be carefully reamed to remove obstructions or burrs.
7. Use a special compound in making all pipe connections. Compound should be of a type that is suitable for L.P. Gas.
8. Install a drip leg ahead of the heater to prevent foreign matter and moisture from entering the heater controls.
9. Provide a 1/8-inch N.P.T. plugged tapping immediately upstream of the gas supply connection to the heater, accessible for test gage connection.



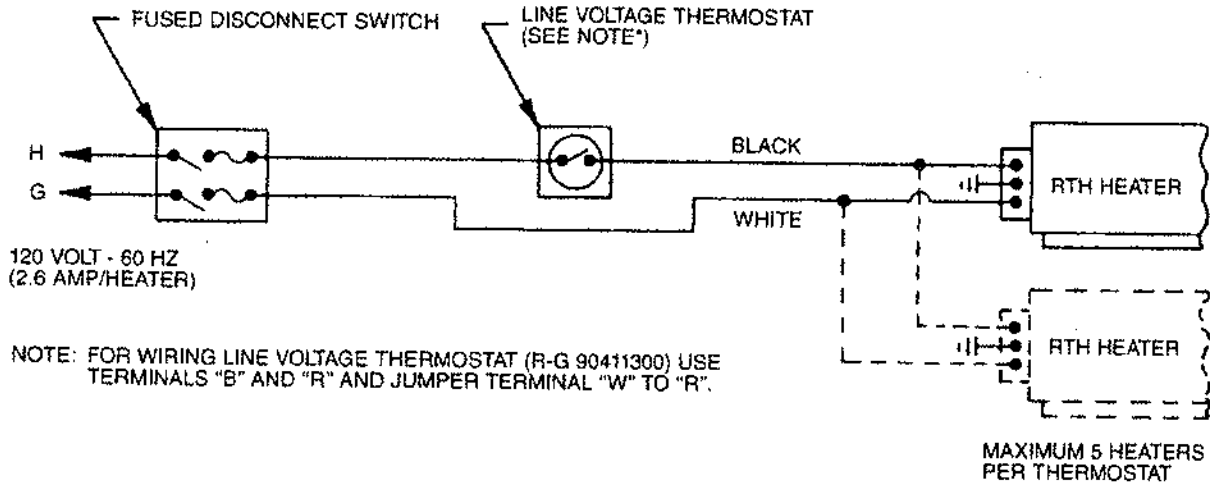
NOTE (1) HIGH PRESSURE STOP COCK AS SUPPLIED BY INSTALLER IF REQUIRED.

**TYPICAL GAS PIPING ARRANGEMENT**  
Figure 5

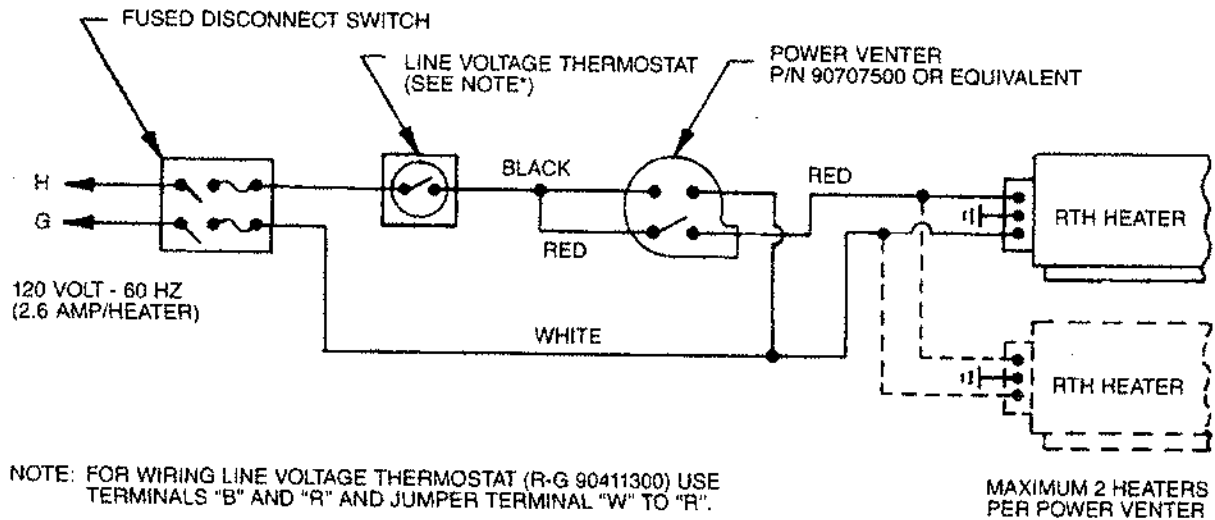
**FIELD WIRING**

Heaters are normally controlled by thermostats (see Figures 6 and 7). Line voltage thermostats are wired directly; the recommended 24 volt thermostats use a relay per Figures 8 and 9. Heaters must be grounded in accordance with National Electrical Code ANSI/NFPA 70-1987. Heaters can also be controlled with a manual line voltage switch or times switch in place of the thermostat.

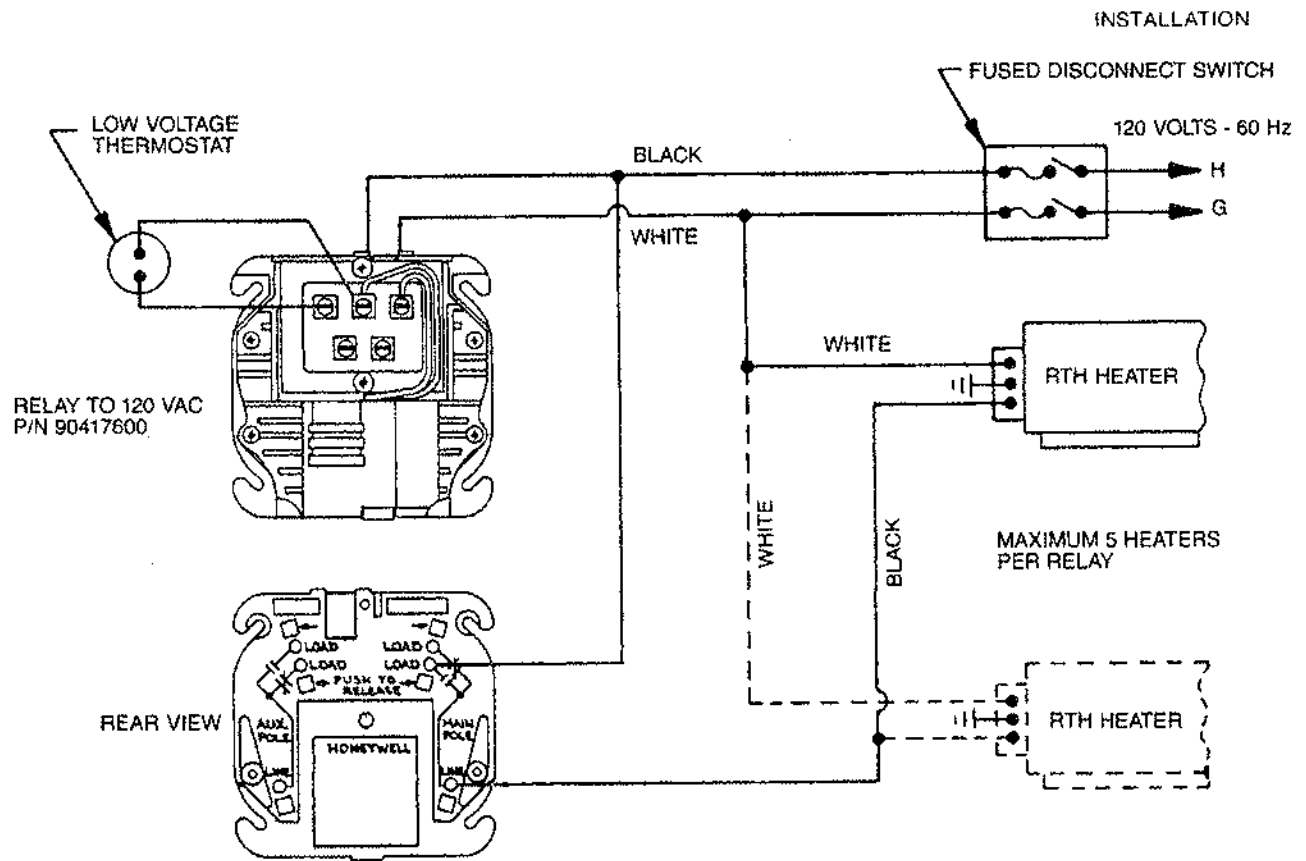
See Figure 11 for internal wiring of the heater.



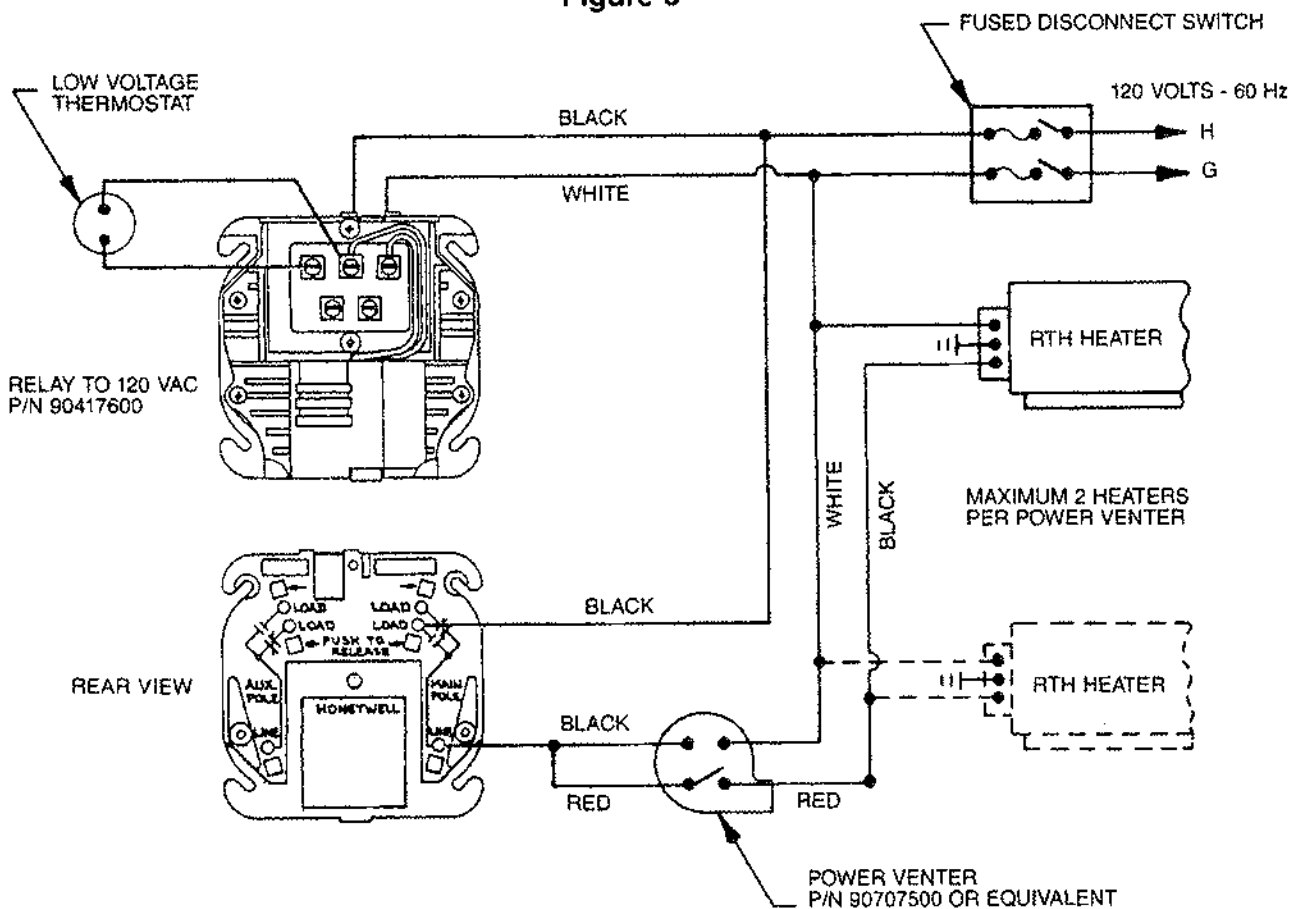
**WIRING OF LINE VOLTAGE THERMOSTAT**  
Figure 6



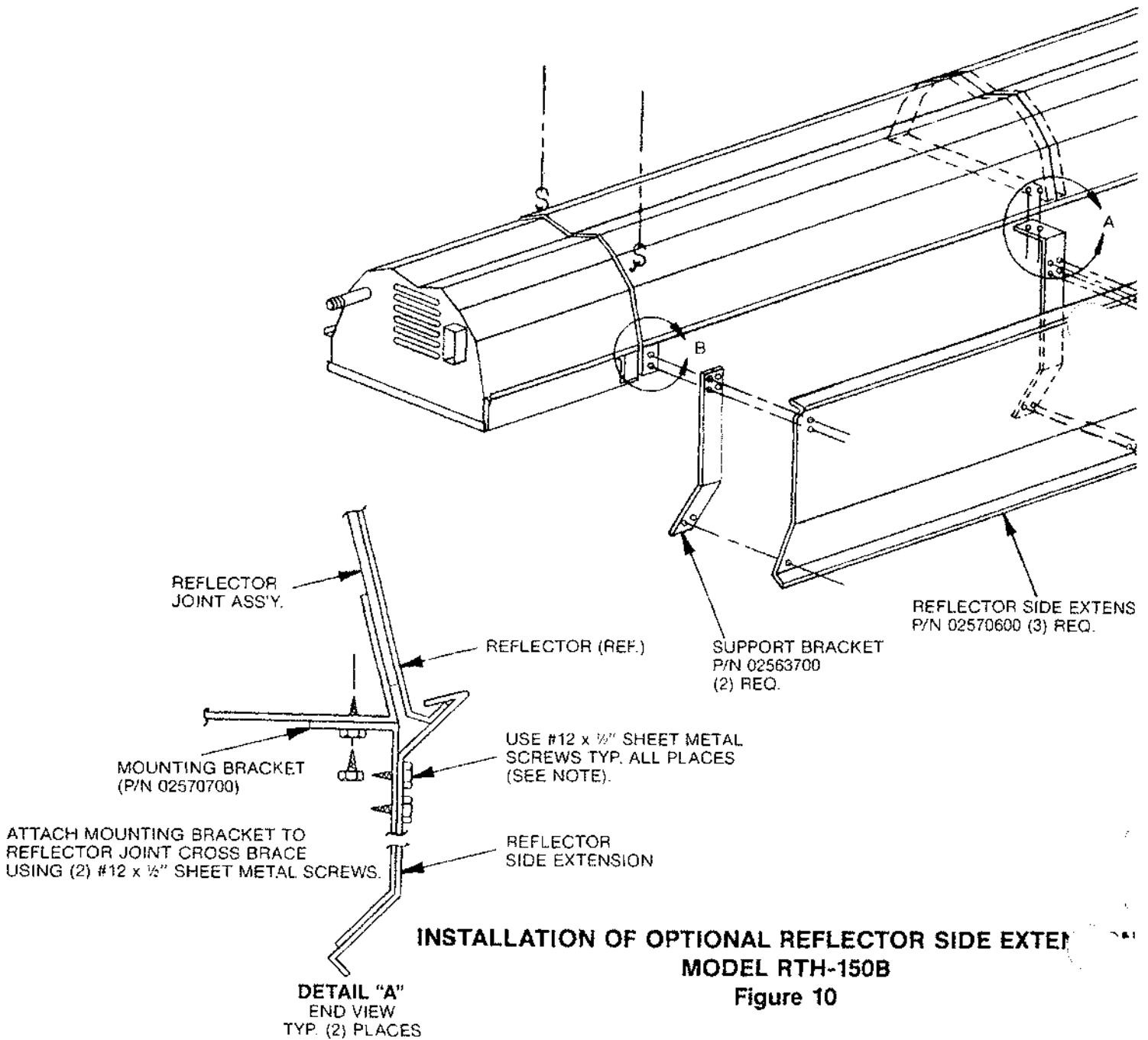
**WIRING OF LINE VOLTAGE THERMOSTAT WITH POWER VENTING**  
Figure 7

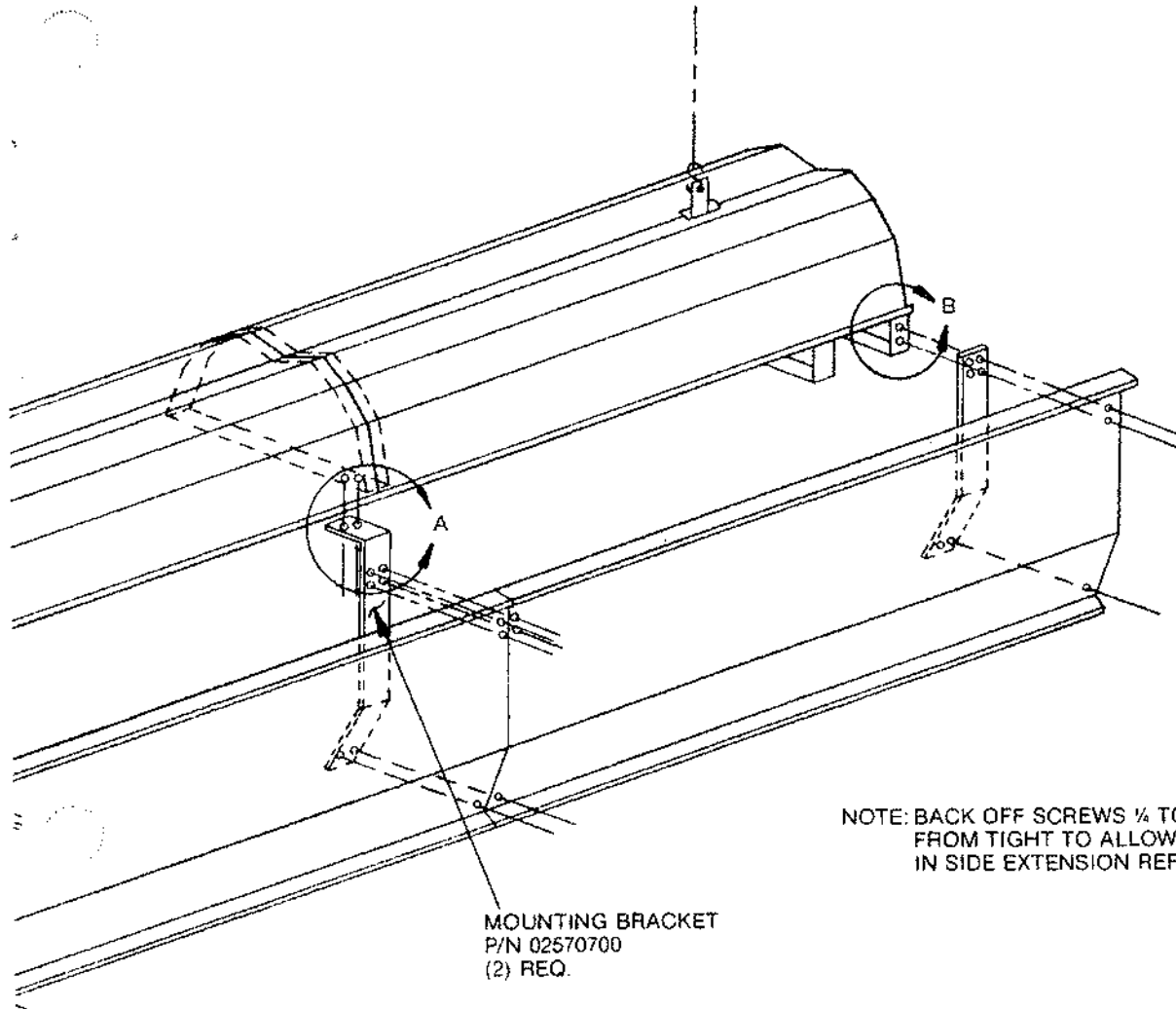


**WIRING OF LOW VOLTAGE THERMOSTAT AND RELAY**  
Figure 8



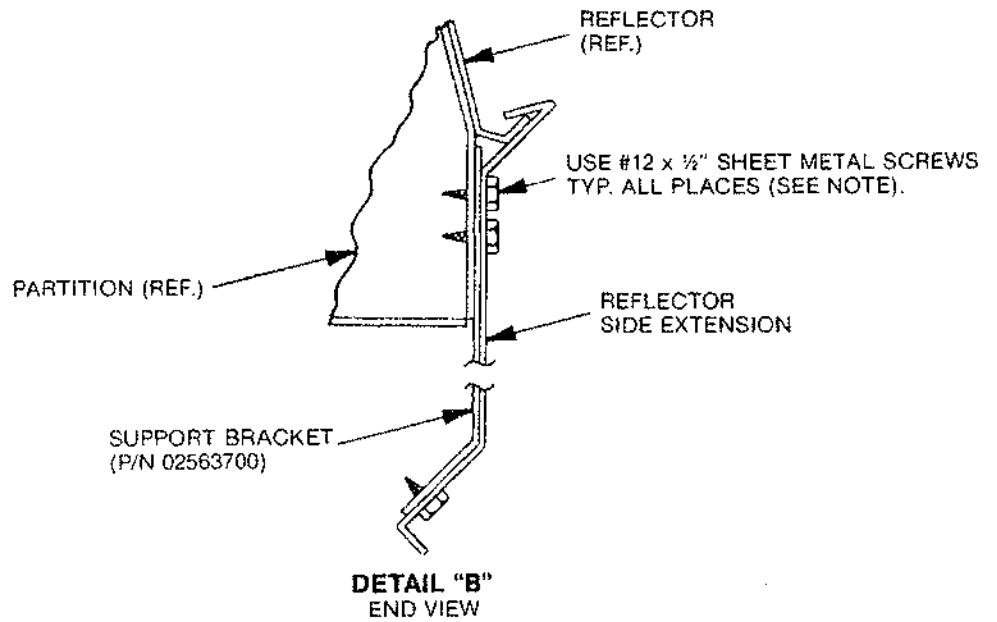
**WIRING OF LOW VOLTAGE THERMOSTAT AND RELAY WITH POWER VENTING**  
Figure 9





NOTE: BACK OFF SCREWS  $\frac{1}{8}$  TO  $\frac{1}{4}$  TURN FROM TIGHT TO ALLOW MOVEMENT IN SIDE EXTENSION REFLECTORS

MOUNTING BRACKET  
P/N 02570700  
(2) REQ.



**IMPORTANT:** In all cases clearance to combustibles must be maintained. See Clearance to Combustibles Chart (Figure 2) of these instructions.

## SERVICE INSTRUCTIONS

### MODEL RTH-150B D.S.I. CONTROL

#### SEQUENCE OF OPERATION

The RTH Gordon-Ray Heater is equipped with a gas direct spark ignition system. This is how it works:

1. Thermostat on a call for heat energizes the blower motor and air proving pressure switch.
2. When motor approaches nominal running RPM, the air proving pressure switch closes, energizing the control board which energizes the spark ignitor and opens the redundant gas valve.
3. With normal operation as the flame is established, the spark ceases.
4. If the flame is not established during the flame establishing period, the system closes the gas valve and locks out.
5. If flame is extinguished during the duty cycle, the ignitor will provide one immediate retry for ignition before going into lockout.
6. After lockout, control must be reset by turning down thermostat for five seconds and then raising it again to desired temperature.
7. When thermostat is satisfied, all power to the unit is de-energized.

#### SERVICE PROCEDURES

**CAUTION:** Before removing control housing cover for any type of service to heater, be sure that gas and electric supply to heater are turned OFF.

#### NO POWER TO HEATER

1. **Check** — to see that thermostat is calling for heat.
2. **Check** — for blown fuse in electrical supply to heater.
3. **Check** — for power on hot and ground leads entering heater junction box.
4. **Check** — for loose or broken wire at heater junction box.

#### BLOWER MOTOR FAILS TO RUN

1. **Check** — for loose or broken wires from motor to hot and ground leads entering heater junction box.
2. **Check** — to see if blower impeller turns freely; it may be hitting blower housing or motor shaft may be seized. Adjust to free impeller or repair or replace blower motor.

#### NO SPARK

With gas to heater turned OFF, set the thermostat above room temperature. When blower motor attains running speed the blower air proving pressure switch energizes the spark module. The spark electrode may be observed by looking through the observation window of the burner control housing. Spark should appear as a bright blue arc across the electrodes. Spark duration is only a few seconds since main flame is not established, so recycling of the thermostat may be necessary for observation purposes. If no spark appears:

1. **Check** — for loose or broken leads from air proving pressure switch.
2. **Check** — for carbon bridge or broken porcelain insulator on spark electrode.
3. **Check** — spark electrode gap should be .125 inches.
4. **Check** — leads from electrode for loose connections or frayed insulation.
5. **Replace** direct spark ignition module if defective; module is not field repairable.

**NO GAS PRESENT**

Set thermostat above room temperature. When blower attains running speed blower air proving pressure switch energizes main gas valve. If no gas flow or flame is established:

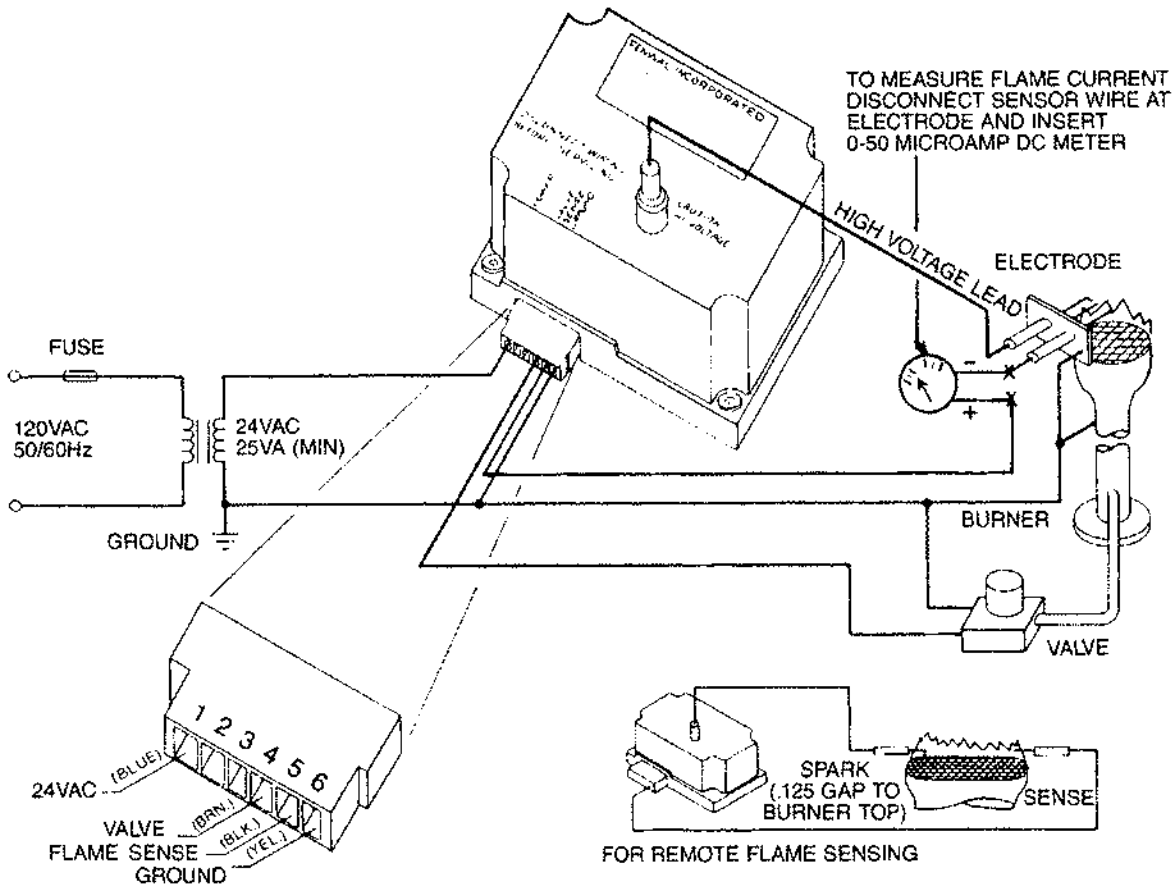
1. **Check** — to see that manual gas supply valve to heater is ON.
2. **Check** — to see that dial knob on redundant valve in control housing is turned to ON.
3. **Check** — for gas pressure at 1/8" N.P.T. Gauge tapping upstream of burner control.
4. **Check** — for loose or broken leads from air proving pressure switch.
5. **Check** -- for loose or broken wire leads from gas valve to circuit board.
6. **Replace** defective gas valve.
7. **Replace** circuit board. Board is not field repairable.

**FENWAL CONTROL**

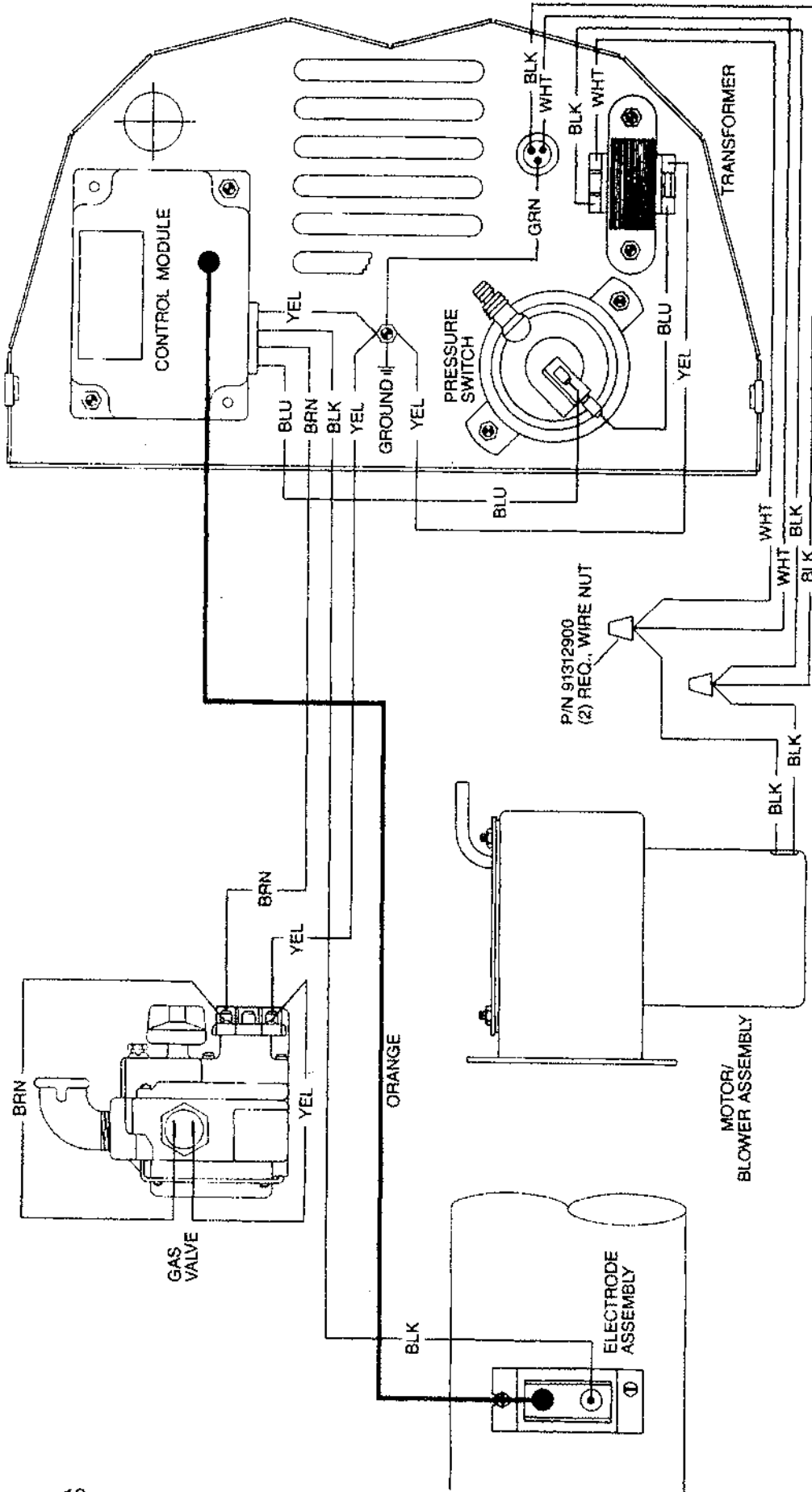
Flame current is the current which passes through the flame from the sensor to ground to complete the primary safety circuit. The minimum flame current necessary to keep the ignitor from lockout is five microamps. To measure flame current, DISCONNECT INPUT VOLTAGE then remove low voltage sensing lead wire from electrode terminal and insert a 0-50 DC microamp meter in a series with the sensor probe and sensor wire (see Figure 11). Meter reading should be 5 microamps or higher.

If meter reads below "0" on scale, the leads are reversed. Disconnect power and reconnect leads for proper polarity.

If the flame current reading is less than 5 microamps, reposition the electrode in the flame to get a higher reading.



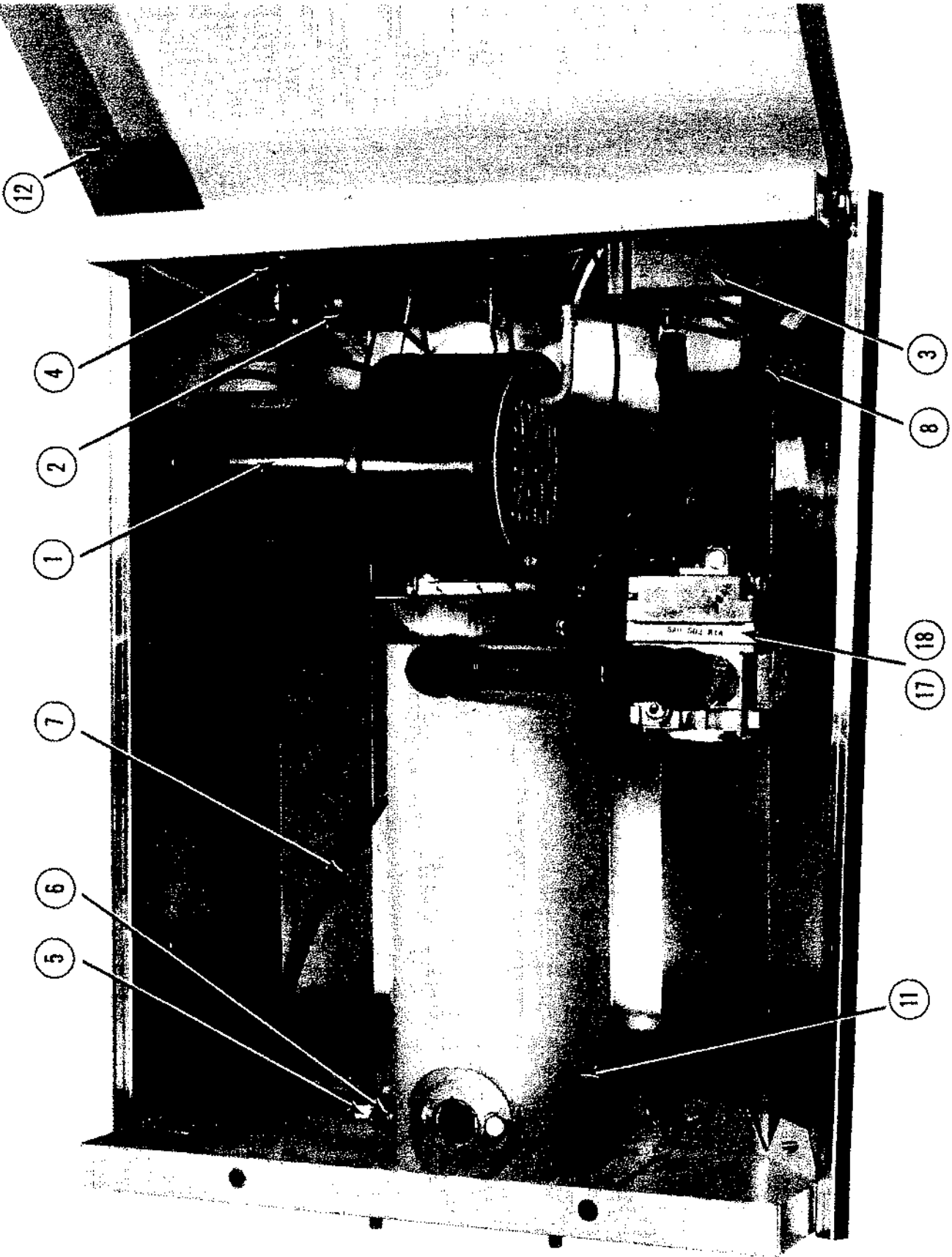
**FENWAL CONTROL**  
**Figure 11**



- NOTES:**
1. If any of the original wire as supplied with the appliance must be replaced, it must be replaced with wiring material having a temperature rating of at least 105°C.
  2. Each burner must be electrically grounded in accordance with National Electrical Code ANSI/NFPA 70-1967.
  3. For low voltage thermostat and/or parallel burner operation see Wiring Diagram (Figure 9).

**INTERNAL WIRING DIAGRAM**  
Figure 12





CONTROL HOUSING  
Figure 13

## REPLACEMENT PARTS FOR RTH-150B

ITEM	DESCRIPTION	PART NO.
1	Blower and Motor Assembly	02517400
2	Transformer	02535700
3	Control Module	90427302
4	Air Sensing Switch	90434901
5	Electrode Assembly	90427400
6	Electrode Mounting Bracket	02526100
7	Ignition Cable Assembly	90434800
8	Low Voltage Connector Assembly	02535600
9	Mixer Assembly With Adaptor and Orifice — Nat. Gas	02516400
10	Mixer Assembly With Adaptor and Orifice — L.P. Gas	02516500
11	Burner Tube Assembly	02538400
12	Bottom Cover (Control Housing)	02567401
15	Fuel Conversion Kit — L.P. to Natural	02514900
16	Fuel Conversion Kit — Natural to L.P.	02515000
17	Gas Valve — Natural Gas	90031200
18	Gas Valve — L.P. Gas	90031100
19	Orifice Adaptor	02591800
20	Orifice "B" Drill — Natural Gas	91910498
21	Orifice #29 Drill — L.P. Gas	91910429

## WARRANTY CARD

### Gordon-Ray Installation Information

Name \_\_\_\_\_

Address Where Installed \_\_\_\_\_

Phone No. \_\_\_\_\_ Person To Contact \_\_\_\_\_

Installation Date \_\_\_\_\_ Installer \_\_\_\_\_

Purchased From \_\_\_\_\_

DID THESE UNITS REPLACE AN EXISTING HEATING SYSTEM?     YES     NO

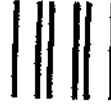
Type \_\_\_\_\_ BTU's Replaced \_\_\_\_\_

Gordon-Ray Units No. \_\_\_\_\_ Type \_\_\_\_\_

Serial No's \_\_\_\_\_

### Type of Application — Please Indicate

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> AIRPORT FACILITY<br><input type="checkbox"/> Hangar <input type="checkbox"/> Warehouse<br><input type="checkbox"/> Other _____<br><input type="checkbox"/> AUTO BODY SHOP<br><input type="checkbox"/> AUTO DEALER<br><input type="checkbox"/> AUTO SERVICE SHOP<br><input type="checkbox"/> ASSEMBLY PLANT<br><input type="checkbox"/> BOTTLING PLANT OR<br>WAREHOUSE<br><input type="checkbox"/> CAR WASH<br><input type="checkbox"/> CONSTRUCTION EQUIP. DEALER<br><input type="checkbox"/> FABRICATION PLANT<br>TYPE _____<br><input type="checkbox"/> FARM <input type="checkbox"/> Cattle <input type="checkbox"/> Dairy<br><input type="checkbox"/> Horse <input type="checkbox"/> Pig <input type="checkbox"/> Poultry<br><input type="checkbox"/> FARM BUILDING<br>TYPE _____ | <input type="checkbox"/> FARM IMPLEMENT DEALER<br><input type="checkbox"/> FIRE STATION<br><input type="checkbox"/> GARAGE<br>TYPE _____<br><input type="checkbox"/> GREENHOUSE<br><input type="checkbox"/> HOCKEY RINKS<br><input type="checkbox"/> HIGHWAY DEPT. BUILDING<br>TYPE _____<br><input type="checkbox"/> LUMBER COMPANY<br><input type="checkbox"/> MANUFACTURING PLANT<br>TYPE _____<br><input type="checkbox"/> MACHINE SHOP<br><input type="checkbox"/> PUBLIC BUILDING<br>TYPE _____<br><input type="checkbox"/> POST OFFICE<br><input type="checkbox"/> RESTAURANT<br>TYPE _____ | <input type="checkbox"/> SCHOOL<br>TYPE _____<br><input type="checkbox"/> STORE<br>TYPE _____<br><input type="checkbox"/> SWIMMING POOL<br><input type="checkbox"/> TENNIS COURT<br><input type="checkbox"/> TRUCKING COMPANY<br><input type="checkbox"/> UTILITY COMPANY BUILDING<br>TYPE _____<br>UTILITY _____<br><input type="checkbox"/> WAREHOUSE<br><input type="checkbox"/> WELD SHOP<br>TYPE _____<br><input type="checkbox"/> ZOO<br><input type="checkbox"/> OTHER _____ |
|--|--|---|



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UNITED STATES

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POSTAGE WILL BE PAID BY ADDRESSEE



**Roberts-Gordon, Inc.**  
Subsidiary of A.J. Industries, Inc.  
P.O. Box 44  
Buffalo, NY 14240

**ROBERTS-GORDON, INC.  
LIMITED WARRANTY**

**WARRANTY COVERAGE:** ROBERTS-GORDON, INC. ("Seller") warrants that entire heating systems sold by it (individually a "System") and any replacement parts which it sells relating to any System ("Parts") shall be free from defects in workmanship and material for the time periods described as follows. With respect to a System this warranty shall apply for a period of three years from delivery to the original purchaser ("Buyer"). With respect to Parts, this warranty shall apply for the longer of the original System warranty period or for a period of one year. ("Systems" and "Parts" are hereinafter collectively referred to as "Products".) This warranty extends only to the original purchaser of Products.

Seller manufactures products which are designed only to provide predetermined ranges of heat rises in various enclosures when properly used in systems designed by purchaser or others and installed by others. Seller makes no representation or warranty with respect to the effect upon enclosure, or upon any of the contents of the enclosure, including, without limitation, all plant or animal life, kept or processed in the enclosure subject to the limitations outlined below.

**WARNING:** THIS WARRANTY IS VOID IF THE PRODUCTS HAVE BEEN DAMAGED DUE TO ACCIDENT, ABUSE, MISHANDLING OR ANY OTHER CAUSE WHATSOEVER OTHER THAN DEFECTS IN MATERIAL OR WORKMANSHIP. Specifically, Seller's warranty shall not apply: (a) to damage to Products when used in an atmosphere containing halogenated hydrocarbons or other corrosive chemicals. Some compounds in the air can be ingested into the equipment and can cause an accelerated rate of corrosion of some of the Products. The use of such chemical compounds in or near the enclosure should be avoided where a longer life of the burner, tubing and other parts is desirable; (b) to Products which have been repaired or replaced with other than factory parts, modified in any way, misused or damaged, or which have been installed and used contrary to Seller's written instructions or manuals; or (c) to any damage resulting from improper service or a lack of proper maintenance.

**LIMITATIONS OF WARRANTY:** OTHER THAN AS STATED HEREIN OR IN ANY OTHER WRITTEN WARRANTY OF SELLER, THERE ARE NO OTHER WARRANTIES OF ANY KIND WHATSOEVER, EXPRESS OR IMPLIED, AND ALL OTHER EXPRESS AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR ANY PARTICULAR PURPOSE ARE HEREBY SPECIFICALLY DISCLAIMED.

**EXCLUSIVE REMEDY:** THE SOLE AND EXCLUSIVE REMEDY FOR ANY LOSS, DAMAGE OR LIABILITY, OR OTHERWISE, IS LIMITED TO THE OBLIGATION OF SELLER TO REPAIR OR REPLACE PARTS, AT ITS FACTORY, OF ANY PRODUCT OWNED BY ORIGINAL BUYER AND RETURNED TO SELLER'S FACTORY WITHIN THREE (3) YEARS AFTER SHIPMENT TO JOB SITE IN THE CASE OF SYSTEMS AND WITHIN ONE (1) YEAR AFTER SHIPMENT TO JOB SITE IN THE CASE OF PARTS, TRANSPORTATION CHARGES PREPAID, WHICH EXAMINATION REVEALS TO HAVE BEEN DEFECTIVE. UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR ANY LOSS, DAMAGE, COSTS, EXPENSES, OR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, IN CONNECTION WITH THE SALE, INSTALLATION, USE, MAINTENANCE, OR REPAIR, OF ANY PRODUCT.

**BUYER RESPONSIBLE FOR DATA:** Seller and its representative may furnish Buyer, upon Buyer's request, data relating to the function and use of Products. Seller shall not be liable for loss, damage, cost, expenses or incidental or consequential damages of any kind, sustained directly or indirectly, by any person, or to any property, if Buyer adopts and uses such data in whole or in part.

**LIMITATIONS ON AUTHORITY OF REPRESENTATIVES:** No representative of Seller, other than an Executive Officer, has authority to change or extend these provisions. Changes or extensions shall be binding only if confirmed in writing by Seller's duly authorized Executive Officers.

Direct any questions or warranty claims to the original installer:

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Or to: Warranty Claims, ROBERTS-GORDON, INC., 1250 William Street, Buffalo, New York 14206.



*This Roberts-Gordon Gas-Fired  
Infrared Heater was manufactured  
in the United States by union labor  
dedicated to producing quality products.*



### **What you should know about Roberts-Gordon, Inc.**

- Pioneer developer and manufacturer of low-intensity gas-fired infrared heaters and heating systems.
- More than 60 years experience in the heating equipment industry.
- We cherish and work hard to protect our reputation for quality products.



**Roberts Gordon, Inc.**

*Subsidiary of A.J. Industries Inc*

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