

" THE EQUATOR "

**THESE INSTALLATION
INSTRUCTIONS MUST
BE KEPT WITH THE
HEATER**



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Installation/Operating Instructions for: **"The Equator"**



"H.I." Series Indoor/Outdoor Infrared Patio Heaters

"The Equator" is C.S.A. design certified as a non-vented infrared heater for outdoor or indoor installation. All units are equipped with direct spark ignition and 100% safety shutoff for safety and economy.

The aluminized steel enclosures and aluminium face grill provides resistance to wind and rain. The slim design and horizontal or angle mounting option provides versatility to fit almost any patio situation.

The installation of **"The Equator"** must only be performed by licensed technicians, trained and educated in the installation of this type of gas appliance.

WARNING: Read this manual completely before first installing or servicing this equipment. Failure to read and fully understand this manual may result in an improper installation, which could result in faulty operation of **"The Equator"**, causing property damage, serious injury or death. If you do not fully understand these instructions, contact your sales representative or the manufacturer prior to the commencement of installation, servicing or maintenance. Easy Radiant Works accepts no responsibility for damages whatsoever resulting in improper installation of this heater. Improper installation voids all warranties. This manual must remain with **"The Equator"** at all times.

DANGER:

For indoor installations, the installation must comply with all local and governing codes. Minimum ventilation requirements as described on page 7 of this manual (or as governed by applicable codes) must be met. Improper ventilation may cause injury or death.

For Your Safety... IF YOU SMELL GAS

- 1. Open all windows.**
- 2. Do not try to light any appliance.**
- 3. Do not use any electrical switches**

Do not use any telephones in the building. Immediately call your local gas supplier from a neighbour's, and follow the gas supplier's instructions. If you are unable to reach the gas supplier, CALL THE FIRE DEPARTMENT!

Installations in Canada must conform to the National Standards of Canada

CAN/CGA-B 149.1&2-M86, and all local codes.

In the United States the installation of this appliance must conform with ANSI standard Z223.1 entitled "National Fuel Gas Code" and any applicable local codes. Heaters installed in aircraft hangers must be installed in accordance with American National Standards for Aircraft Hangers, ANSI/NFPA no. 409. Heaters in public garages must be installed in accordance with NFPA No. 88A standards for parking structures.

Each heater must be electrically grounded in accordance with the CSA Canadian Electric Code C22.1 and in the U.S. the National Electrical Code ANSI/NFPA 70 when an external electrical source is utilized.

The gas inlet supply and normal operating manifold pressure for each heater are as follows. For gas supply line pressures in excess of ½ PSIG, consult with your representative from the factory.



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Infrared Heat

“**The Equator**” heaters are effective in heating outdoor spaces because they utilize infrared or radiant heat. Infrared energy is the same type of energy we get from the sun. Infrared energy warms people and objects without heating the intervening air. Unlike the sun “**The Equator**” does not produce Ultraviolet (UV) rays that can be harmful. Infrared energy travels by line-of-sight so the designer must be aware that doors, panels or windows may obstruct the infrared energy from reaching the desired location. Overlapping infrared patterns from numerous heaters may be used effectively to provide even heat distribution.

Because infrared heaters heat people and objects, and thermostats measure air temperature, a thermostat may not be the best method for controlling outdoor heaters. Where multiple heaters are used, it is suggested that they be switched independently, so as to allow for flexibility in heating larger areas as the space becomes more occupied. A timer is a good method to ensure that all heaters are turned off when the patio is not being used.

Clearances & Safe Mounting Practices.

“**The Equator**” must be installed, so that the “minimum clearances to combustibles” are maintained. Combustible materials are considered to be wood, compressed paper, plant fibres, or other materials capable of being ignited and burned. Such materials shall be considered combustible even though flame-proofed, fire retardant treated or plastered. Additional clearances may be required for glass, painted surfaces, plastics, vinyl’s and other materials which may be damaged or melted by radiant or convection heat. A minimum clearance of 24 inches above “**The Equator**” must be maintained to plastics, vinyl’s or any other materials that may be adversely affected by radiant or convection heat.

Clearance Guidelines

“**The Equator**” must be installed with adequate space around each unit. When placed near wood or other flammable materials, appropriate clearances from combustible materials must be maintained. Even if materials surrounding “**The Equator**” are non-combustible, adequate space around “**The Equator**” is required to provide sufficient combustion air, ventilation of exhaust gases, and the general safe operation of “**The Equator**”. They must **NEVER** be installed inside building recesses or inside a soffit. Fire sprinkler heads must be located an appropriate distance from “**The Equator**”, or a sprinkler head with a high enough temperature rating, that normal operation of “**The Equator**” will not activate, must be used. Please refer to local fire codes for guidelines for locating sprinkler heads near heaters.

Warning: The clearances below are also applicable to vehicles parked below heaters. Applicable to natural gas and propane heaters.

MINIMUM CLEARANCES TO COMBUSTIBLE

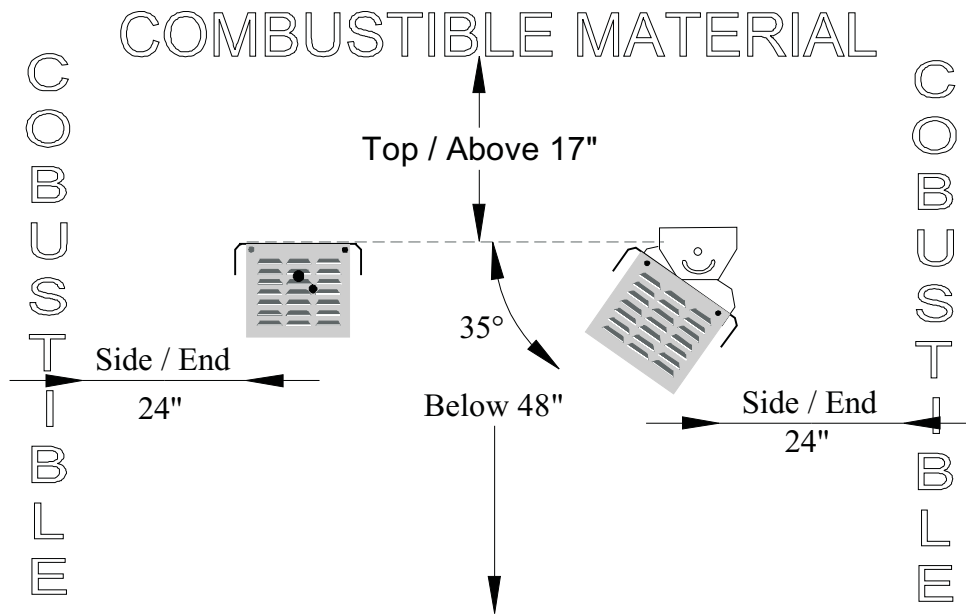
"EQUATOR" MODEL HI-30-40
INPUT 30/40,000 BTUH

SIDES / ENDS -----24"

ABOVE / TOP-----17"

BELOW----- 48"

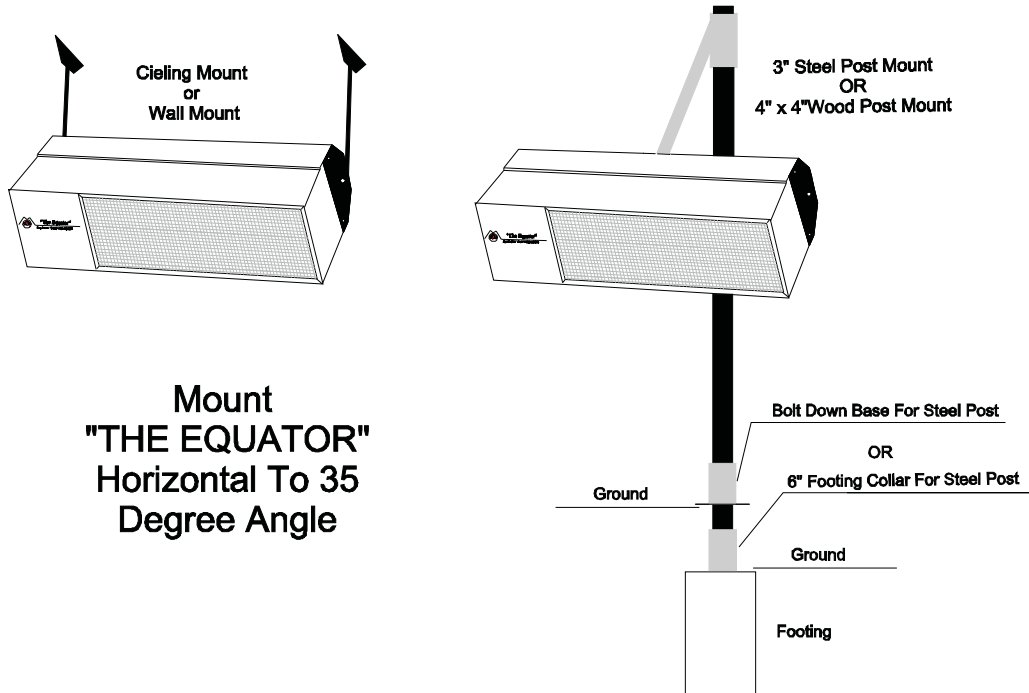
MOUNTING----ANGLE OR HORIZONTAL



Ventilation

1. It is **MANDATORY** that a minimum building ventilation rate of four (4) CFM per 1000 BTUH of installed heater input be provided. This rate of ventilation may be obtained through either gravity or mechanical ventilation of the building.
2. In conjunction with building ventilation system, adequate fresh air into the building must be provided through fresh air inlets and/or building openings
3. Local authorities must be contacted to assure the ventilating system and heater installation are in compliance with any and all applicable codes.

Equator Mounting Configurations



Electrical Requirements

A 120/ 24VAC 20 VA NEC Class 2 transformer is installed in **“The Equator”**. **“The Equator”** is supplied with a 3 wire plug in 120 volt connecting wire.

If any factory wiring is to be replaced, it must be replaced with wiring material having a temperature rating of at least 105 degrees C. **Modifying factory wiring voids warranty**

Gas Piping

A 1/2" X 24" LONG FLEXIBLE GAS HOSE (SUPPLIED) TO BE INSTALLED AT THE UNIT

1. A minimum pipe size of 1/2" is required for inlet piping. A 1/2" lever handled shut-off gas cock should be installed within 6 feet of "**The Equator**" for servicing the unit.
2. Check with local and provincial plumbing and heating codes regarding sizing of the gas lines.
3. All gas pipe connections to the heater(s) must be sealed with a gas pipe compound resistant to liquefied petroleum gases.
4. Installation of a drip leg in the gas supply line going to each heater is required to minimize the possibility of any loose scale or dirt within the gas supply line from entering "**The Equator**" control system.
5. When checking for gas leaks, do not use an open flame. Use a soap and water solution.
6. For gas supply line pressures in excess of 1/2 psig, consult the factory or your local representative.
7. Installation of 1/8" N.P.T. plugged tapping, accessible for test gage connections, is required upstream of the gas supply connection to "**The Equator**".

<u>Gas Inlet Pressure</u>	<u>Natural Gas</u>	<u>L.P. Gas</u>
Maximum pressure	1/2 psig	1/2 psig*
Minimum pressure	7" w.c.	11" w.c.
Manifold pressure	6" w.c.	10" w.c.

For gas supply line pressure in excess of 1/2 PSIG, consult with your gas supplier.

Do not locate either the gas or electrical supply line directly above the flue outlet of "**The Equator**".

“**The Equator**” must be installed in a location so that it is readily accessible for servicing and have no restriction of airflow to the air inlet of the heater’s casing.

WARNING:
FOR ENCLOSED PATIOS

Enclosed patios must be large enough to meet the clearance, combustion air and ventilation requirements of “**The Equator**”. “**The Equator**” may not be suitable for very small-enclosed patios. Consult the local authority, for information on local codes prior to using “**The Equator**” in an enclosed area.

Patio Heating Design Considerations

“**The Equator**” placement is critical for effective and efficient patio heating. If heaters are placed too close together, or mounted too low, patrons of the patio may become uncomfortable. If heaters are placed too far apart, or too high, on a breezy or wind-swept patio, the area may never become comfortable.

Infrared heaters work best if placed in areas of greatest heat loss, such as the open side of a semi-protected patio.

“**The Equator**” may be angle mounted from 0 degrees to 35 degrees maximum. When mounting above 20 degrees to a maximum of 35 degrees, wind protection must be provided. **Note** clearances to combustibles chart on page 4.

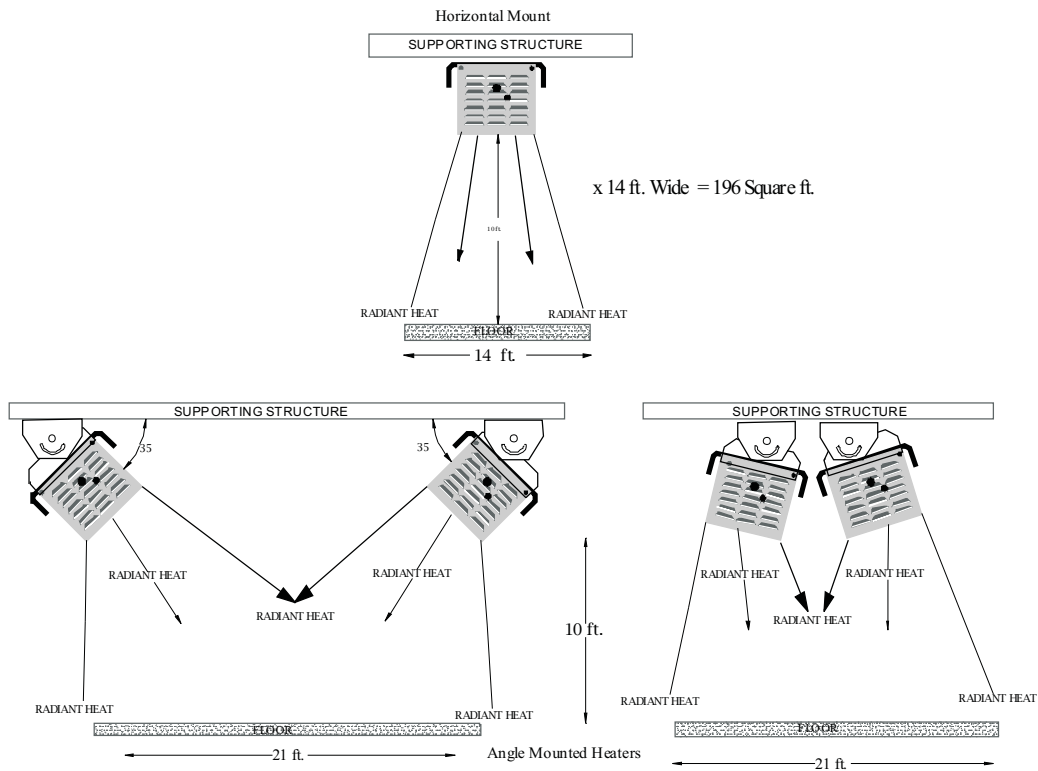
Windy conditions can be a problem when heating any patio. Windbreaks can be extremely effective in increasing comfort levels.

The heating requirements of any patio depend greatly on local climatic conditions.

It is recommended that you work with a local, and experienced supplier and installer who are familiar with the heating requirements of your area.

Typical Patio Layouts

At a mounting height of 10 ft., “**The Equator**” will heat an area of approximately 14 ft. x 14 ft. (196 sq. ft.) Conditions vary depending upon outdoor temperatures and wind conditions



Individual heaters can be placed below a supporting structure without angle mounting. **“The Equator”** can be installed with up to 35-degree angle to face inward toward each other or outward & away from each other.

Heater Operation

Upon installation of **“The Equator”** and completion of the gas and electrical supply line to each heater, follow the steps outlined on the “Lighting Instruction” plate located on the inside of the control door.

Sequence of Operation

Turn gas and power “ON”. The pilot and burner should light within 4 seconds. A flame sensor will shut off the spark. If the burner does not light within 15 seconds, the flame sensor will shut “OFF” the gas valve; the unit will try a relite 3 times. To relight the pilot and burner, shut “OFF” power. Wait 5 minutes. Turn power back “ON”.

Lighting Instructions:

To Start “The Equator”:

1. Turn Manual gas valve to “ON” position.
2. Turn electrical supply “ON”

To Shut Down:

1. Turn manual gas valve to “OFF” position.
2. Turn electrical supply “OFF”.

CAUTION:

If burner fails to ignite, shut down electrical power and wait five (5) minutes before turning power “ON”.

Maintenance

In order to get the maximum performance from “**The Equator**”, we recommend the following be performed at least annually. More frequent service and maintenance may be required if “**The Equator**” is located within 2,000 feet of a waterfront.

1. With an air hose regulated to 30 psig, blow off any dust and dirt that has accumulated around the burner and inside the control compartment of “**The Equator**”. Proper eye protection required.
2. From the front of the heater, direct the air hose from a distance of approximately twelve (12) inches over the entire exposed area of each burner’s ceramics.
3. Do not insert air hose into the inlet of the burner.
4. Remove main burner orifice, clean and reinstall.
5. Check to insure heater is securely mounted and the clearance from combustible material is maintained.
6. If additional service to “**The Equator**” is required, contact your local representative of the factory.

Stainless Steel Heater

Stainless steel does not “rust”, however, air pollution can leave brown deposits on exterior of **“The Equator”**.

We recommend washing the outer stainless steel casing only with a mild detergent solution and wiping it dry with a soft cloth to bring back the original shine.

The stainless steel may be expected to permanently darken around the flue outlet at the top of **“The Equator”** over time with extended use.

Servicing Instructions:

Turn off gas and electrical before attempting any service to this appliance.

“The Equator” may be serviced by opening door to control compartment.

Cover of control compartment must be removed for servicing by removing six screws holding cover in place.

The cover must be removed if the gas controls, burner or burner orifice is to be replaced.

Removal of Direct Spark Ignition Control

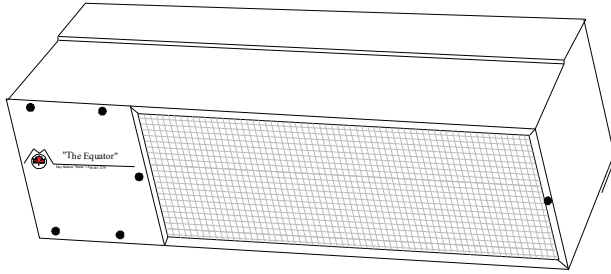
Disconnect 24VAC volt wiring from electronic control.

Remove two (2) 8-32 x 1-1/4 screws and nuts holding control in place.

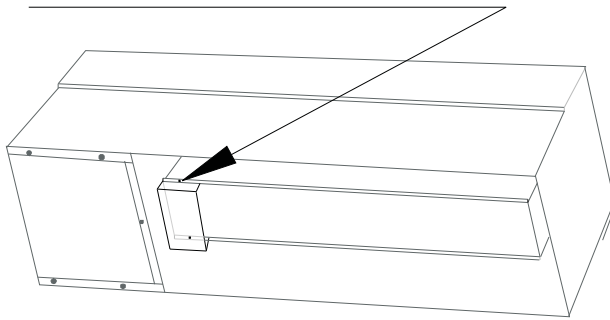
Remove control.

Removal of the Burner

"A" Remove 6 Screws From Cover Plate and Grill



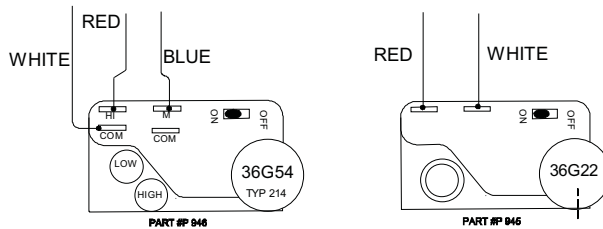
"B" Remove Cover Plate and Grill
Remove Pilot Screen (2 screws)



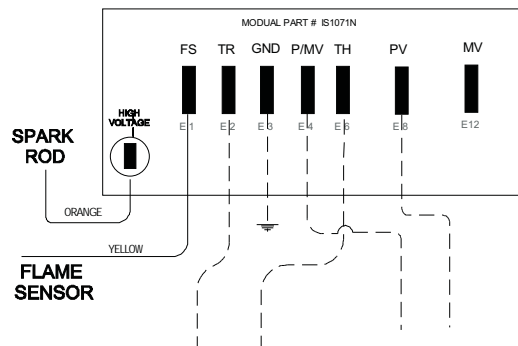
"C" Disconnect Wiring From Valve

(Two Stage)

(Single Stage)



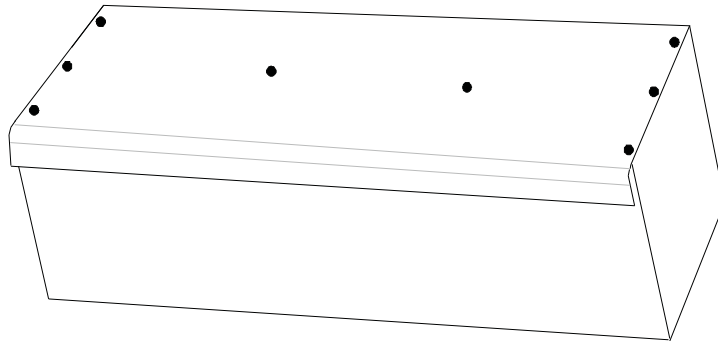
"D" Remove IGNITER (ORANGE) Wire
And
Flame Sensor (Yellow) From Modul



Removal of the Burner (con't)

"E"

Turn Burner Face Down
And
Remove (8) Screws
And
Remove Back Panel



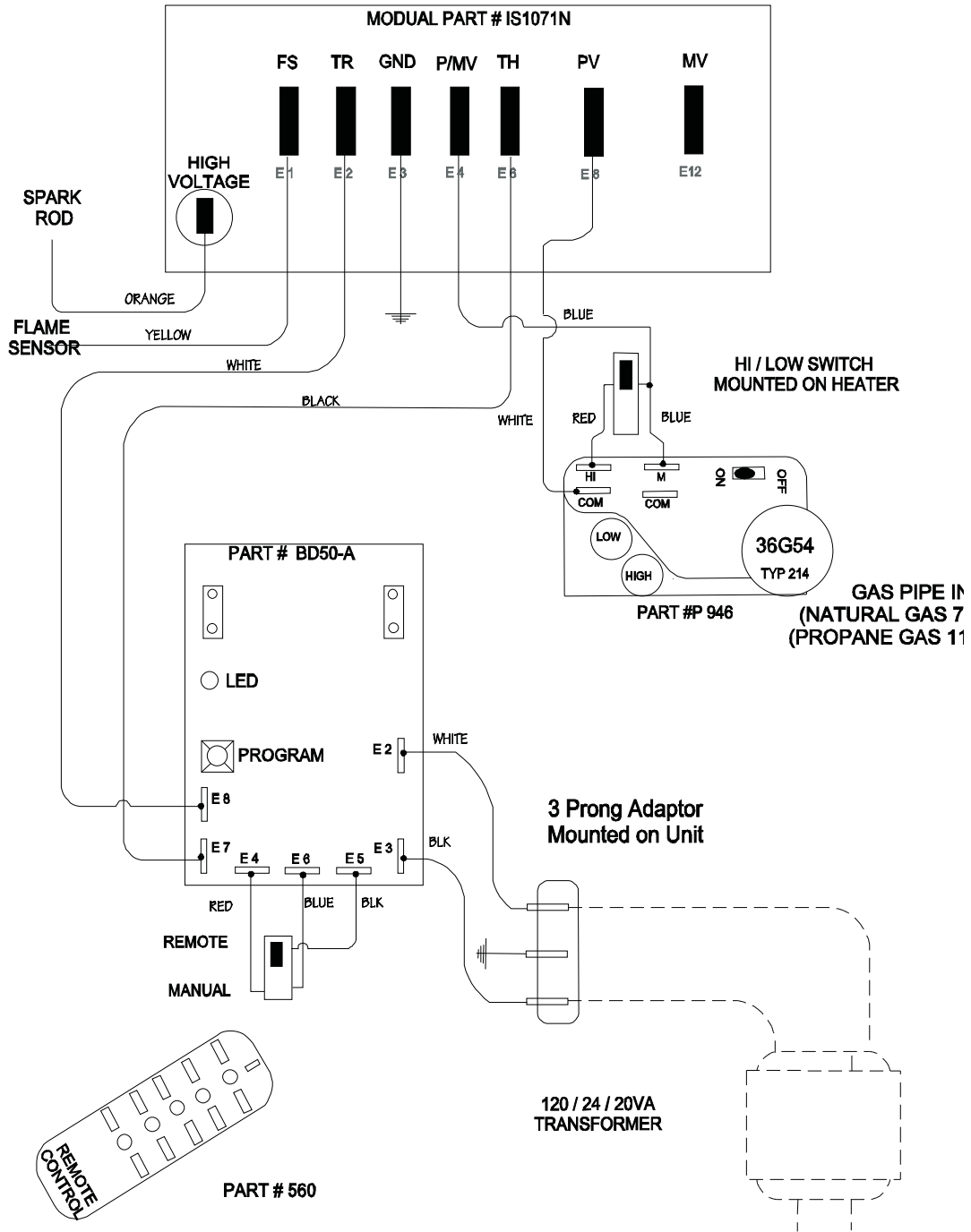
"F"

Remove the screws (4)
And
Lift Burner From Enclosure



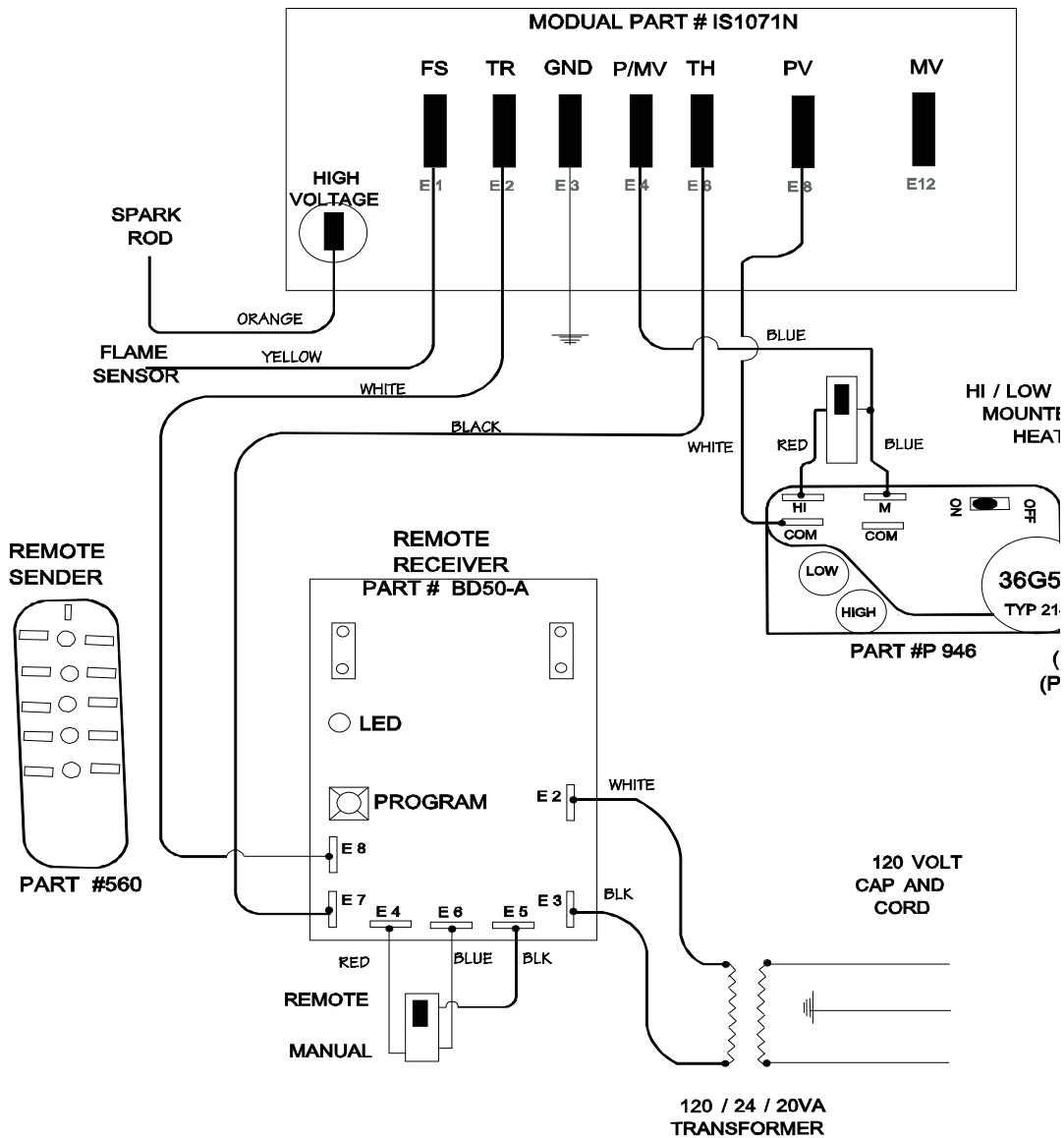
Wiring Diagrams

WIRING DIAGRAM FOR TWO INPUT UNIT WITH REMOTE 24v



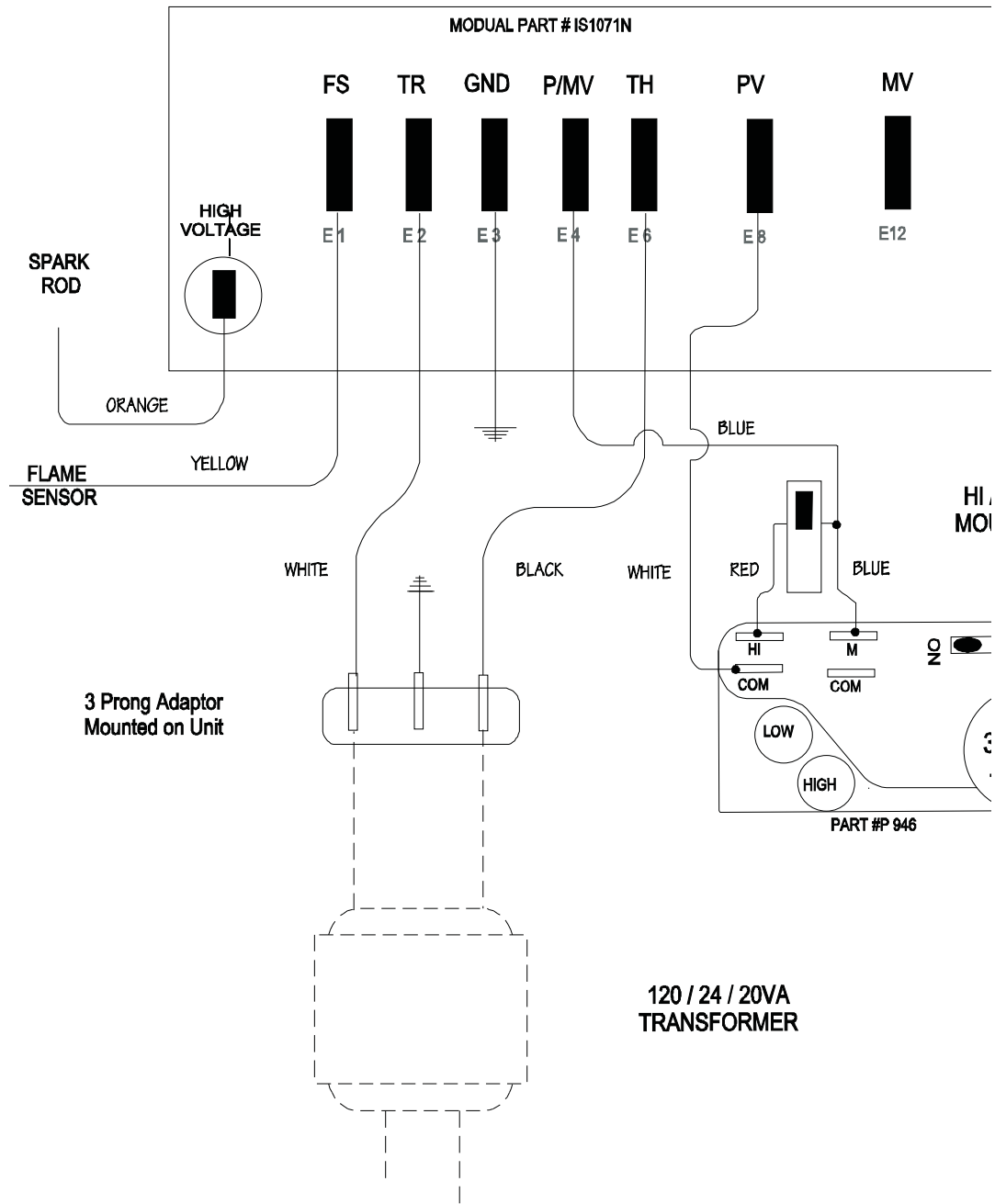
Wiring Diagrams

WIRING DIAGRAM FOR TWO INPUT UNIT WITH REMOTE 120v

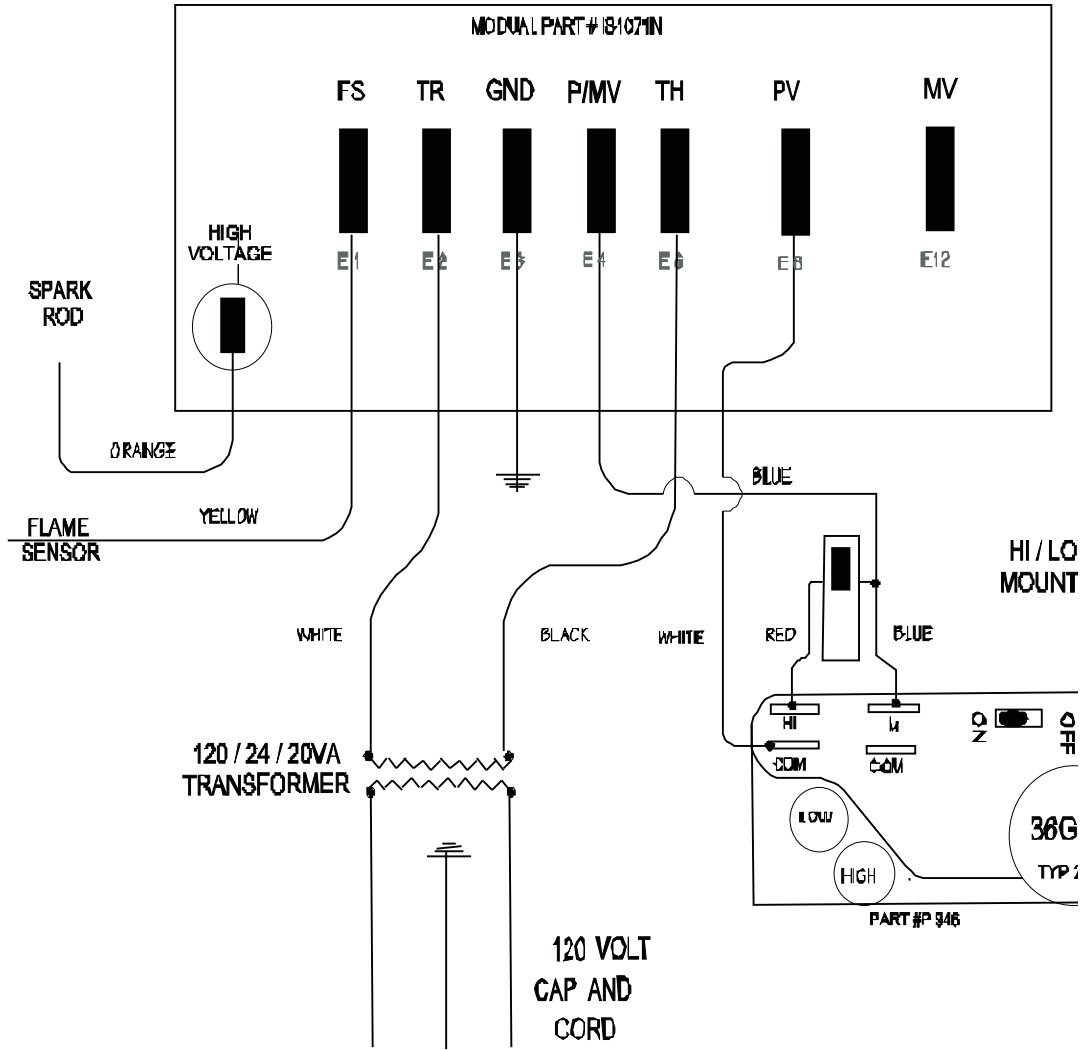


Wiring Diagrams (con't)

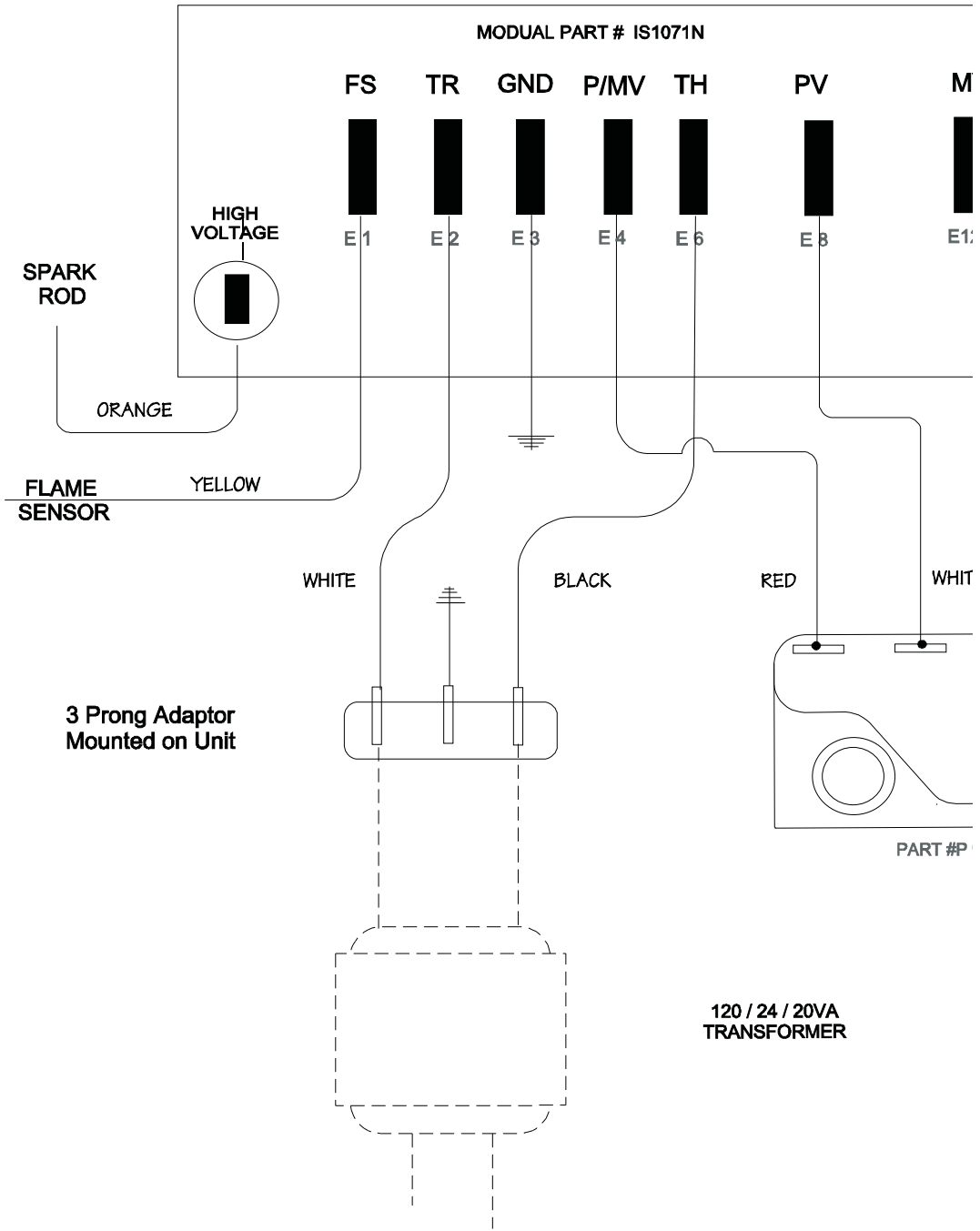
WIRING DIAGRAM FOR TWO INPUT 24v



Wiring Diagrams (con't)
WIRING DIAGRAM FOR TWO INPUT
 120v

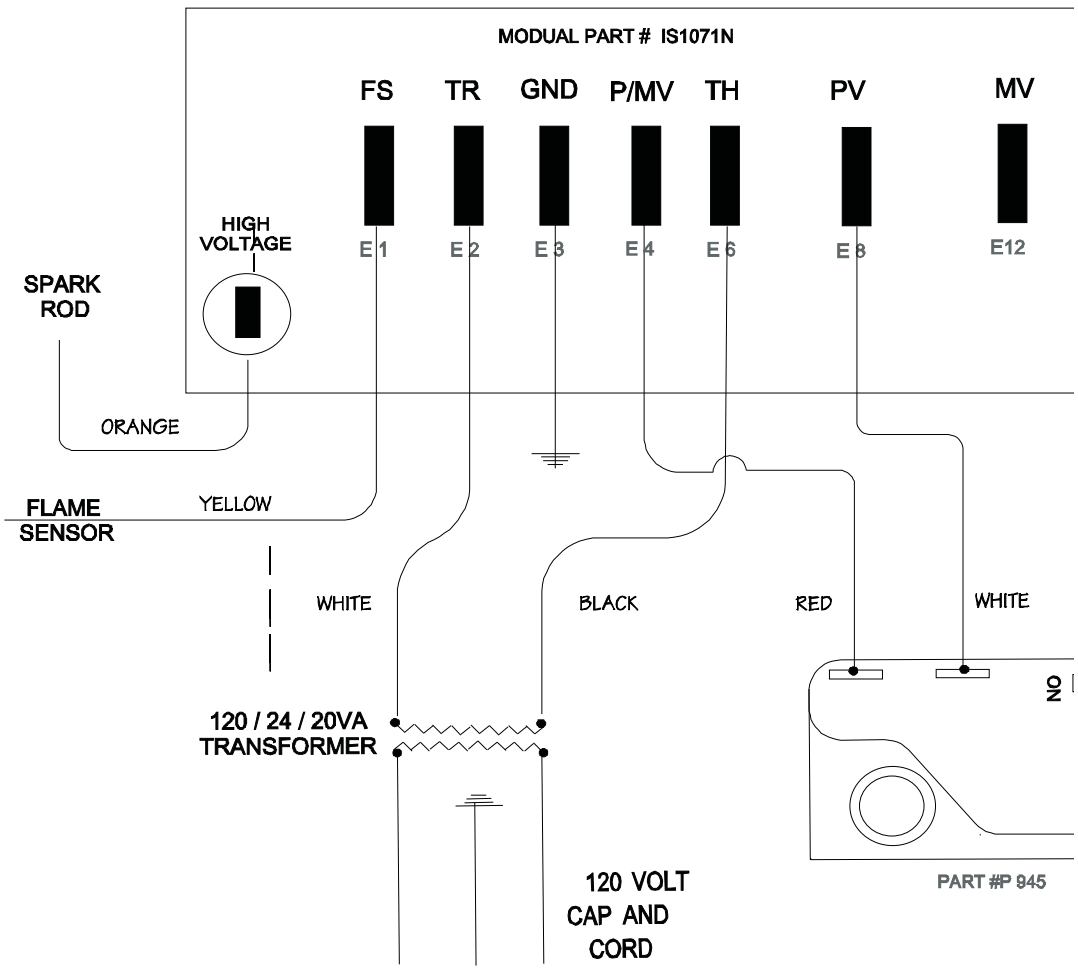


Wiring Diagrams (con't)
WIRING DIGRAM FOR SINGLE INPUT
 24v



Wiring Diagrams (con't)

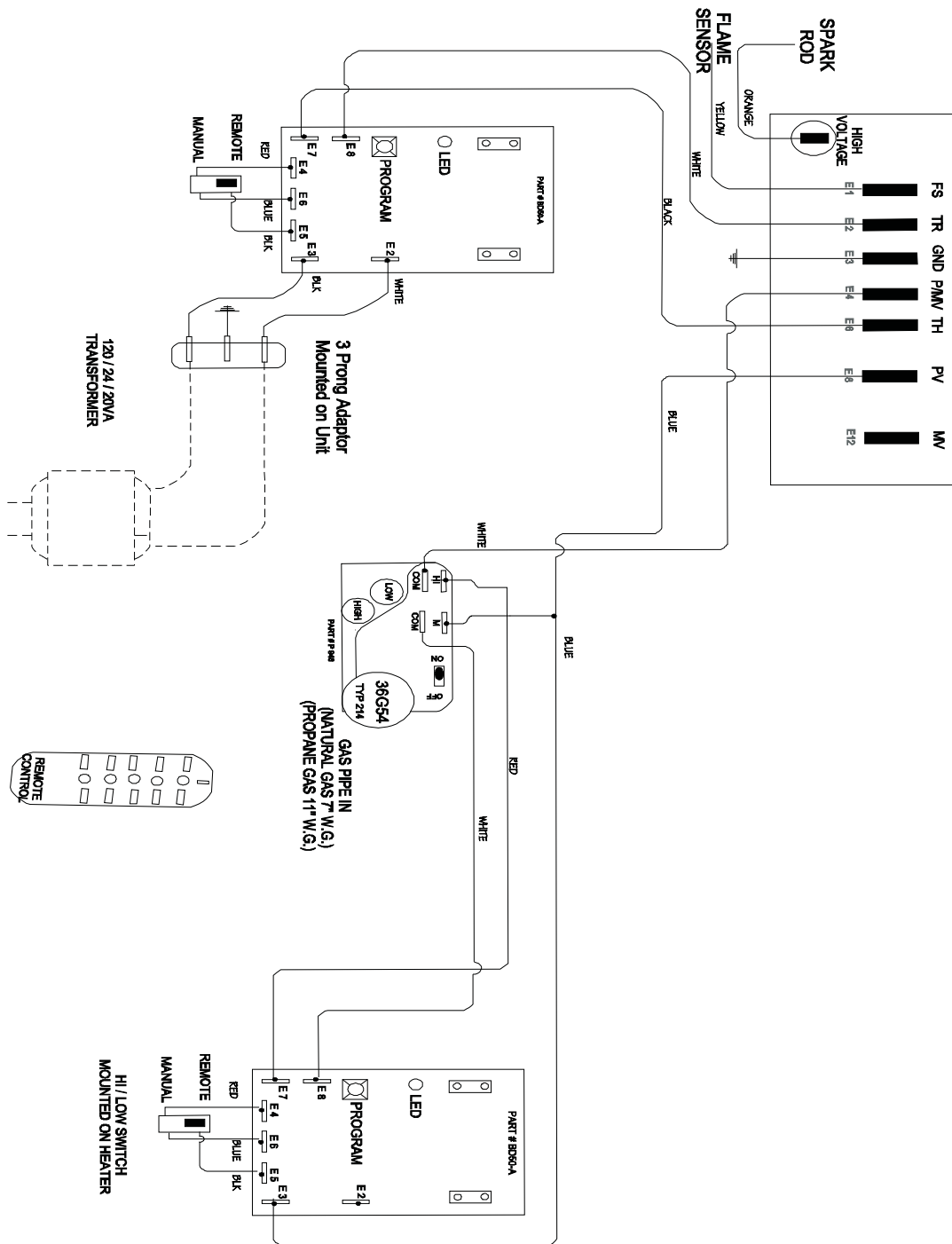
WIRING DIGRAM FOR SINGLE INPUT 120v



Wiring Diagrams (con't)

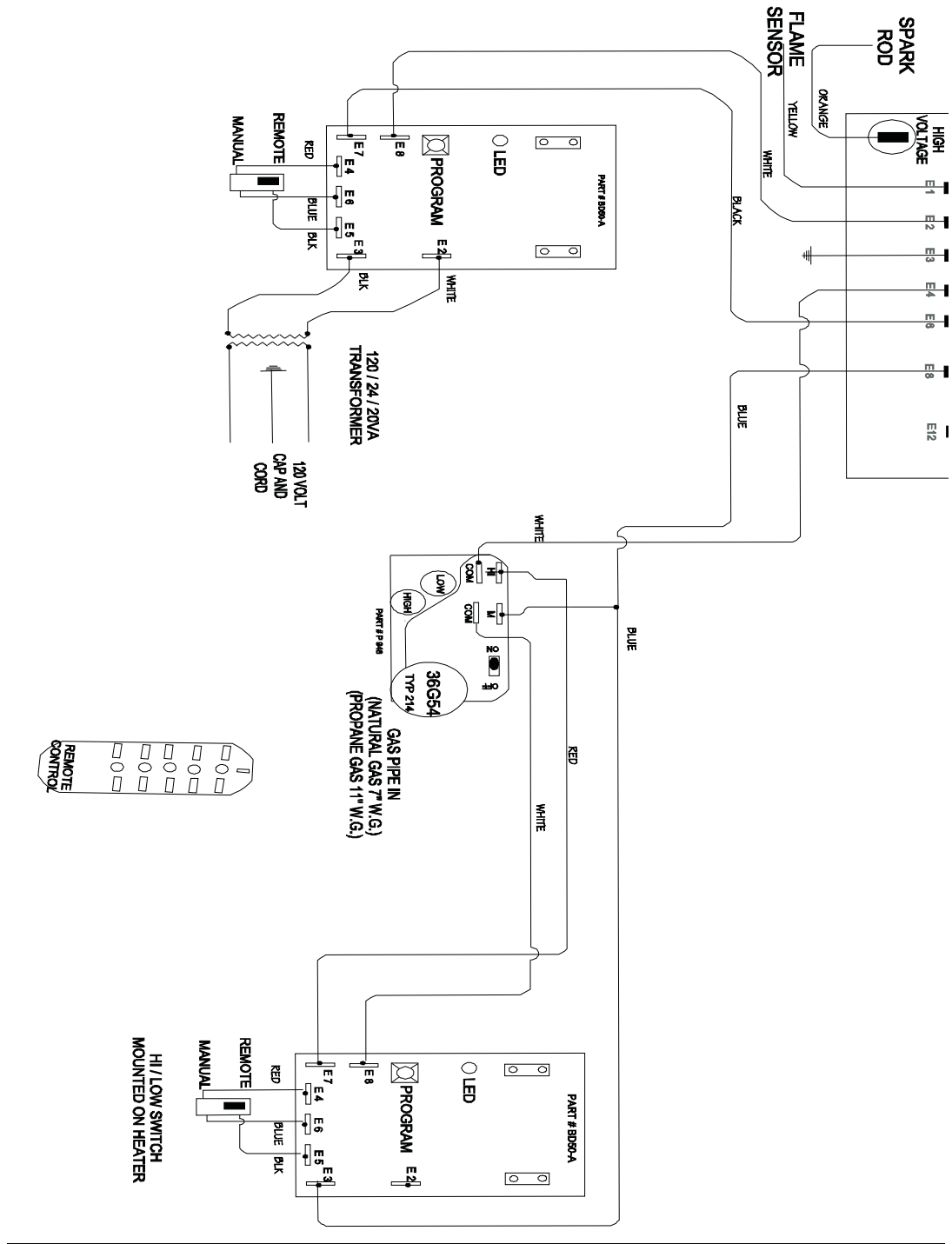
WIRING DIGRAM FOR TWO INPUT WITH ON OFF & HIGH LOW REMOTE

24v



Wiring Diagrams (con't)

WIRING DIGRAM FOR TWO INPUT WITH ON OFF & HIGH LOW REMOTE
120v



Trouble Shooting

IF NO SPARK FROM ELECTRODE OR IF GAS VALVE DOES NOT WORK THEN

- a. Check your power supply. Should have 24 volts between power wires. Use a voltage meter between inlet 24 volts wire and ground terminal at electrode plate to measure 24 volts.
- b. Check continuity. Use ohmmeter. For example, check resistance between valve wire and ground. Should show almost no resistance. (0 ohms) through valve. If high resistance, check wire connectors.
- c. Check spark gap. Should be $7/64$ " (.109") between electrode tip ground stop. If gap is too large, spark will occur at wrong location. If gap is too small, spark may not be hot enough to light pilot burner.
- d. Be sure connectors are fully inserted into ignition control. (See Wiring Diagram on rating plate).

IF INSUFFICIENT GAS FLOW THEN

- a. Gas manual valve not full "ON". Turn valve handle to full "ON" position.
- b. Burner orifice plugged. Remove heater top, remove burner orifice (use $1/2$ " hex wrench) and thoroughly clean. Spiders often crawl into orifice hole and make a web, blocking the orifice.

Trouble Shooting (continued)

Problem	Possible Causes
No Spark	Voltage under 24VAC Improper spark gap (7/64" or .109) Loose ground wire Broken electrode Faulty electronic module
Burner Won't Light	Air in gas line Low gas pressure Bad gas valve Blockage in gas line Manual gas valve turned "OFF"
Inconsistent Operation	Variable gas pressure (improperly sized gas line) Variable voltage Wind exceeding 15 mph Tip angle exceeding 30 degrees Debris inside burner Erratic winds
Deterioration of the Front Grill	"The Equator" must be installed in such a manner as to allow the products of combustion or hot gases to vent out the top portion of the heaters. When operating normally, only radiant heat passes through the front grill. If conditions exist which force hot gases through the front grill of heater, the installation must be altered to correct the condition.

Programming Instructions for “EQUATOR”
24v Remote Control

ERW-R (remote control receiver, factory installed in heater)

ERW-S (hand held remote control sender)

For individual control of multiple heaters (i.e. up to 4 heaters individually)
OR
groups of many heaters – with one remote sender

Ensure that the dial on the back of the hand held sender is set to “G”
Ensure that the sliding switch on the front of the hand held sender labeled
1,11,111,1V is set to 1

1. Remove the access panel on the heater to expose the ERW-R1 that has been factory installed.
2. Turn the “manual-remote” switch on the exterior of the heater to “Remote”.
3. Identify the yellow button on the factory installed ERW-R which is directly below the green LED.
4. Press and continue to hold in the yellow program button. It will flash once.
5. While depressing the yellow program button on the ERW-R, depress and hold the “grey off button” labeled number 1, on the ERW-S hand held sender. The LED on the ERW-R will flash again.
6. Release the yellow program button on the ERW-R and the grey button on the sender.
7. Press and hold the green button (number 1) for 3 seconds and the heater will ignite.
8. Press the grey button (number 1) and the heater will turn off.
Move to heater number 2 and repeat the above steps but use number 2 on the hand held ERW-S
Continue to heaters 3 and 4 and repeat above using numbers 3 and 4
Several heaters can be turned on and off simultaneously by programming to “G” for group on the ERW-S rather than using numbers 1 – 4.

Additional hand held senders can be programmed for the same heaters
using the above method.

Single Input “EQUATOR” with On / Off hand held remote control.

Your remote control (ERW-S & ERW-R) has been pre-programmed to work with your heater.

Ensure that the “Manual / Remote” switch on the heater is in the “Remote” position.

To turn the heater on depress and hold for 5 seconds the green “on” button labelled “1”. To turn the heater off depress the grey “off” button labelled number “1”

Buttons 2,3,4 will be inoperative. They can be used to control additional heaters in future. The “G” button is used to control a group of heaters

Always leave the sliding control labelled 1, 11, 111 @ 1V in the “1” position and do not change the setting on the reverse side of the remote.

If the remote control becomes inoperative, ensure that there is a fresh battery installed. If you suspect that the remote may require reprogramming contact the manufacturer for instructions.

To operate the heater manually, turn the “Manual / Remote” switch to “Manual”. In this position the hand held remote will not operate.

Multiple (2, 3 or 4) Single Input “EQUATOR” heaters with On / Off hand held remote control

Your remote control (ERW-S & ERW-R) has been pre-programmed to work with your heaters.

Ensure that the “Manual / Remote” switch on all the heaters is in the “Remote” position.

To turn on heater No. 1, depress and hold for 5 seconds the green “on” button labelled “1”. To turn the heater off depress the grey “off” button labelled number “1” To turn on heater No. 2 depress and hold for 5 seconds the green “on” button labelled “2” To turn the heater off depress the grey “off” button labelled number “2”. For heaters 3 and 4 repeat the above procedure with buttons labelled 3 and 4. The “G” button will turn the group of heaters on and off .

Always leave the sliding control labelled 1, 11, 111 @ 1V in the “1” position and do not change the setting on the reverse side of the remote.

If the remote control becomes inoperative, ensure that there is a fresh battery installed. If you suspect that the remote may require reprogramming contact the manufacturer for instructions.

To operate the heaters manually, turn the “Manual / Remote” switch to “Manual”. In this position the hand held remote will not operate.

2 Inputs “EQUATOR” with On / Off & High / Low hand held remote control.

Your remote control (ERW-S & ERW-R) has been pre-programmed to work with your heater.

Ensure that the “Manual / Remote” switch on the heater is in the “Remote” position.

To turn the heater on depress and hold for 5 seconds the green “on” button labelled “1”. To turn the heater off depress the grey “off” button labelled number “1”

To switch from high to low on your heater slide the switch labelled 1, 11, 111 & 1V to the “11” position. Depress the green “on” button to go to the high input (40,000 BTU) and the grey “off” button to go to the low input (30,000 BTU)

Buttons 2,3,4 will be inoperative. They can be used to control additional heaters in future. The “G” button will control a group of heaters.

Always leave the sliding control labelled 1, 11, 111 @ 1V in the “1” position to control on/off and the “11” position to control high / low. Positions “111” and “1V” will be inoperative.

Do not change the setting on the reverse side of the remote.

If the remote control becomes inoperative, ensure that there is a fresh battery installed. If you suspect that the remote may require reprogramming contact the manufacturer for instructions.

To operate the heater manually, turn the “Manual / Remote” switch to “Manual”. In this position the hand held remote will not operate.

Multiple (2, 3 or 4) 2 Inputs “EQUATOR” heaters with On / Off & High / Low hand held remote control

Your remote control (ERW-S & ERW-R) has been pre-programmed to work with your heaters.

Ensure that the “Manual / Remote” switch on all the heaters is in the “Remote” position.

To turn on heater No. 1, depress and hold for 5 seconds the green “on” button labelled “1”. To turn the heater off depress the grey “off” button labelled number “1”. To turn on heater No. 2 depress and hold for 5 seconds the green “on” button labelled “2”. To turn the heater off depress the grey “off” button labelled number “2”. For heaters 3 and 4 repeat the above procedure with buttons labelled 3 and 4. The “G” button will turn the group of heaters on and off .

To switch from high to low on your heater slide the switch labelled 1, 11, 111 & 1V to the “11” position. For heater No. 1, depress the green “on” button labelled “1” to go to the high input (40,000 BTU) and the grey “off” button labelled “1” to go to the low input (30,000 BTU). To control the high / low on heaters 2 – 4 repeat the above procedure using buttons 2 – 4.

Always leave the sliding control labelled 1, 11, 111 @ 1V in the “1” position to control on/off and the “11” position to control high / low.

Positions “111” and “1V” will be inoperative.

Do not change the setting on the reverse side of the remote.

If the remote control becomes inoperative, ensure that there is a fresh battery installed. If you suspect that the remote may require reprogramming contact the manufacturer for instructions.

To operate the heaters manually, turn the “Manual / Remote” switch to “Manual”. In this position the hand held remote will not operate.

Multiple (2 – 8) 2 Inputs “EQUATOR” heaters with On / Off & High / Low hand held remote control

Your remote control (ERW-S & ERW-R has been pre-programmed to work with your heaters.

Ensure that the “Manual / Remote” switch on all the heaters is in the “Remote” position.

To turn on heater No. 1, depress and hold for 5 seconds the green “on” button labelled “1”. To turn the heater off depress the grey “off” button labelled number “1” To turn on heater No. 2 depress and hold for 5 seconds the green “on” button labelled “2” To turn the heater off depress the grey “off” button labelled number “2”. For heaters 3 and 4 repeat the above procedure with buttons labelled 3 and 4.

For heaters 5 through 8, turn the dial on the reverse side of the remote to “B”. Follow the above procedures with buttons 1 – 4 now controlling heaters 5 – 8. Turn the dial back to “A” to control heaters 1 – 4.

To switch from high to low on your heater slide the switch labelled 1, 11, 111 & 1V to the “11” position. For heater No. 1, depress the green “on” button labelled “1” to go to the high input (40,000 BTU) and the grey “off” button labelled “1” to go to the low input (30,000 BTU). To control the high / low on heaters 2 – 4 repeat the above procedure using buttons 2 – 4.

The “G” button will turn the group of heaters on and off.(Group settings on back of sender)

Always leave the sliding control labelled 1, 11, 111 @ 1V in the “1” position

If the remote control becomes inoperative, ensure that there is a fresh battery installed. If you suspect that the remote may require reprogramming contact the manufacturer for instructions.

To operate the heaters manually, turn the “Manual / Remote” switch to “Manual”. In this position the hand held remote will not operate.

Warranty

THIS WARRANTY IS APPLICABLE TO THE ORIGINAL OWNER ONLY

In accordance with the warranty terms and conditions specified below

EASY RADIANT "WORKS" (the manufacturer) will supply to the **ORIGINAL OWNER**.

A replacement part or any component part which fails before three (3) years

"NO IF'S AND'S OR BUTS"

SERVICE AND LABOUR RESPONSIBILITY

THE MANUFACTURER WILL PROVIDE ONLY A REPLACEMENT HEATER OR PART THEREOF; THE OWNER IS RESPONSIBLE FOR ALL OTHER COSTS.

Such cost may include but not limited to:

- (a)** Labour charges for service, removal, or reinstallation of the heater or part thereof.
- (b)** Shipping and delivery charges for forwarding the new **"EQUATOR"** or replacement part from **EASY RADIANT "WORKS"** and returning the claimed defective heater or part to **EASY RADIANT "WORKS"**.
- (c)** All costs necessary or incidental for handling and administrative charges and for any materials and/or permits required for installation of the replacement heater or part.

EASY RADIANT "WORKS"

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