BroilVection™

Model JF63 Flow Through Natural Gas/LP Owner's Manual

APPROVALS:

FOR YOUR SAFETY:

Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

WARNING:

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

Broiler area must be kept free of combustible materials, and the flow of combustion and ventilation air must not be obstructed. Operating personnel must not perform any maintenance or repair functions. Contact your Nieco Authorized Dealer.

IMPORTANT: RETAIN THIS MANUAL IN A SAFE PLACE FOR FUTURE REFERENCE

TABLE OF CONTENTS

A. General Information 4
- A.1 Description 4
- A.2 Warranty Information 4
- A.3 Service/Technical Assistance 5
- A.4 Safety Information 5

B. Machine Installation 7
- B.1 Pre-Installation 7
- B.2 Mounting 7
- B.3 Leveling 7
- B.4 Hood Requirements 7
- B.5 Clearance 7
- B.6 Gas Connection 8
- B.7 Flexible Gas Line Installation 8
- B.8 Restraining Device 9
- B.9 Electrical Connection 9
- B.10 Pre-Operation Check 9

C. Operation 10
- C.1 Controls and Indicators 10
- C.2 Step-by-Step Lighting Procedure 12
- C.3 Shutdown Procedure 13
- C.4 Control Operation 14

D. Assembly/Disassembly and Cleaning 15

E. Troubleshooting Guide 27

F. Parts Location Drawings 28

G. Wiring Diagram 31

H. Specifications 35

A. GENERAL INFORMATION

A.1 Description

The Nieco® Model JF63 (single belt) and JF63-2 (dual belt) automatic broiler features high release convection burners, Patent pending BroilVection™ air system that uses waste heat to greatly reduce energy needs, easy cleaning and a simple and intuitive control package to help eliminate broiling problems and provide the operator with even greater control over the broiling environment.

This manual provides the safety, installation and operating procedures for the Nieco Automatic Broiler Model JF63. We recommend that all information
contained in this manual be read prior to installing and operating the broiler.

A.2 Warranty Information

Please read the full text of the limited Warranty in this manual.

If the unit arrives damaged, contact the carrier immediately and file a damage claim with them. Save all packing materials when filing a claim. Freight damage claims are the responsibility of the purchaser and **ARE NOT** covered under warranty.

The warranty **does not** extend to:

- Damages caused in shipment or damage as a result of improper use.
- Installation of electrical service.
- Normal maintenance as outlined in this manual.
- Malfunction resulting from improper maintenance not in accordance with the steps contained in this manual and any applicable training.
- Damage caused by abuse or careless handling outside of the normal operating procedures contained in this manual.
- Damage from moisture into electrical components.
- Damage from tampering with or removal of any safety device.

IMPORTANT!
Keep these instructions for future reference. If the unit changes ownership, be sure this manual accompanies the equipment.

IMPORTANT

The Nieco Corporation reserves the right to change specifications and product design. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment.

A.3 Service/Technical Assistance

If you experience any problems with the installation or operation of your broiler, contact your local Authorized Nieco Distributor.

Fill in the information bellow and have it handy when calling your authorized service agency for assistance. The serial number is on the broiler rating plate on the side of the unit.

Purchased from: _____

Date of Purchase: _____

Model No.: _____

Serial No.: _____

For the name of your local Authorized Nieco Distributor, please call (800) 821-2141.

Use only genuine Nieco replacement parts in your broiler. Use of replacement parts other than those supplied by Authorized Nieco Distributors and Service Agencies will void the warranty and may significantly alter the performance of your broiler. The use of non-Nieco parts is capable of affecting these criteria, and may affect broiler performance, parts longevity and food safety. Your local Authorized Nieco Distributor and Service Agent has been factory trained and has a complete supply of parts for your Nieco Automatic Broiler.

You may contact the factory direct at (707) 284-7100 if you have trouble locating your local Nieco Distributor.

A.4 Important Safety Information

Throughout this manual, you will find the following safety words and symbols that signify important safety issues with regards to operating or maintaining the equipment:

⚠ WARNING ⚠

GENERAL WARNING. Indicates information important to the proper operation of the equipment. Failure to observe may result in damage to the equipment and/or severe bodily injury or death.

⚠ WARNING ⚠

ELECTRICAL WARNING. Indicates information relating to possible shock hazard. Failure to observe may result in damage to the equipment and/or severe bodily injury or death.

⚠ CAUTION ⚠

GENERAL CAUTION. Indicates information important to the proper operation of the equipment. Failure to observe may result in damage to the equipment.

WARNING

HOT SURFACE WARNING. Indicates information important to the handling of equipment and parts. Failure to observe caution could result in personal injury.

A.4 Important Safety Information (Continued.)

In addition to the warnings and cautions in this manual, use the following guidelines for safe operation of your Nieco Automatic Broiler:

- Read and follow all instructions before using this equipment.
- Install or locate broiler only for its intended use as described in this manual.
- Do not operate this equipment if it has a damaged cord or plug, if it is not working properly or if it has been otherwise damaged.
- This equipment should only be serviced by authorized personnel. Contact your local Nieco Distributor for adjustment or repair.
- Use only genuine Nieco replacement parts for your broiler. Failure to do so will void the warranty and may significantly alter the performance of your broiler. The use of non-Nieco parts is capable of affecting these criteria, and may affect broiler performance, parts longevity and food safety.

The following warnings and cautions appear throughout the manual and should be carefully observed:

- **Turn the broiler off, close the main gas valve, and disconnect the plug before performing any service, maintenance or cleaning on the broiler.**
- **Always allow the broiler to fully cool before performing any service, maintenance or cleaning. Failure to wait for the broiler to cool fully may result in personal injury.**
- **The procedures in this manual may include reference to the use of chemical products. The Nieco Corporation does not endorse the use of any particular cleaning/degreasing agent. Use only those chemicals that are approved for use in your kitchen.**
- **The broiler should be grounded according to local electrical codes to prevent the possibility of electrical shock. It requires a grounded receptacle with separate electrical lines, protected by fuses or circuit breakers of the proper rating.**
- **All electrical connections must be in accordance with local electrical codes and any other applicable codes.**
- **The use of adequate ventilation (as rated in this manual) with this broiler is mandatory. Failure to adequately ventilate this unit and provide safe operating distances (as specified in this manual) is a fire safety hazard. Follow the instructions for emergency broiler shutdown in the event of an emergency.**
- **No attempt should be made to operate this appliance in the event of a power failure.**

WARNING ELECTRICAL SHOCK HAZARD. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH:

- **Electrical ground is required on this appliance.**
- **Check with a qualified electrician if you are in doubt as to whether the appliance is properly grounded.**
- **Do not use water on or near the control box for risk of serious injury or death due to electrical shock.**

WARNING, HIGH TEMPERATURES WITH HOT SURFACES. FAILURE TO FOLLOW THESE PROCEDURES COULD RESULT IN SERIOUS INJURY:

- **Do not attempt to clean, disassemble or perform maintenance on this broiler until it is fully cooled as per the instructions contained in this manual.**

B. INSTALLATION

B.1 Pre-Installation

Uncrate the broiler and inspect for shipping damage. Remove the tape securing the machine parts, and install the parts in their proper location. If there are obvious or concealed damages to any part of the broiler, please contact your freight carrier. The factory warranty does not cover freight damage.

B.2 Mounting

Follow the mounting instructions if this function is not performed by the installer.

B.3 Leveling

The grease drain system is based on a gravity-flow design. Therefore, it is extremely important that the broiler be placed on a level surface.

B.4 Hood Requirements

This appliance must be installed under a ventilation hood of adequate size. Do not obstruct the flow of combustion and ventilation air. An adequate air supply must be available for safe and proper operation.

For installations in the Commonwealth of Massachusetts the following shall apply: Venting shall be in compliance with NFPA Section 10.3.5.2 for the Model MPB94.

B.5 Clearance

Keep appliance area free from combustibles.

To facilitate disassembly and service of the unit a minimum of 24” (610 mm) should be allowed on the control panel (feed end) of the broiler.

REQUIRED AND RECOMMENDED CLEARANCES

	REQUIRED for installation near combustible walls and construction	**REQUIRED** for installation near non-combustible walls and construction	**RECOMMENDED** by Nieco for proper disassembly and service
Back of broiler	12” (305 mm)	0” (0 mm)	0” (0 mm)
Sides of broiler	12” (305 mm)	0” (0 mm)	0” (0 mm)
Front of broiler (Feed end)	12” (305 mm)	0” (0 mm)	24” (610 mm)

B.6 Gas Connection- 3/4” N.P.T.

At rated input the gas supply should deliver a minimum pressure of at least 15 mbar (6" water column) at the broiler connection for natural gas. Incoming gas supply pressure must not exceed 50 mbar (14" water column).

Note: The installation of this appliance must conform with local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1, Natural Gas Installation Code, CAN/CGA-B149.1 including:

1. The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.45 kPa).

2. The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.45 kPa).

By public initiative, the State of California has adopted legislation (Proposition 65) which requires manufacturers of many types of products, including gas appliances, to warn consumers of their products that contain chemicals or produce substances listed by the State of California to either cause cancer, birth defects or other reproductive harm.

WARNING

If not installed, operated and maintained in accordance with the manufacturers instructions, this product could expose you to substances in fuel or from fuel combustion which can cause cancer, birth defects or other reproductive harm.

B.7 Installing Gas Appliance Connectors and Flexible Gas Lines Correctly

For safety in the kitchen area, and to insure maximum service life, it is vitally important to correctly install connectors. The connector shall comply with the Standard for Connectors for Moveable Gas Appliances, ANSI Z21.69 or CAN/CGA-6.16 and a quick disconnect device that complies with the Standard for Quick-Disconnect Devices for use with gas fuel, ANSI Z21.41 or CAN1-6.9

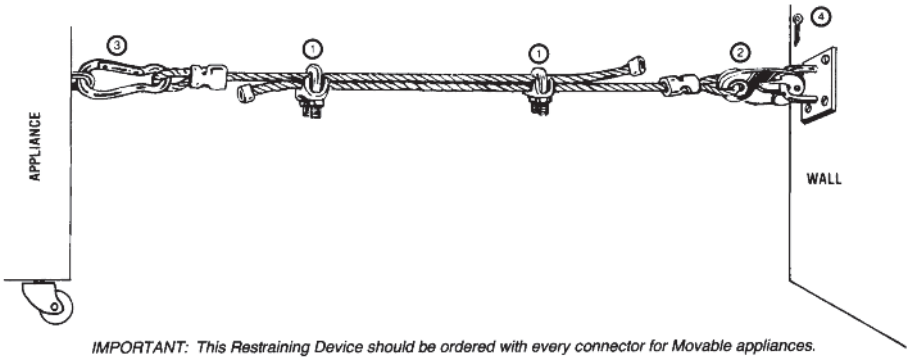
In order to avoid sharp kinks or excessive bends that could have a damaging effect on the connector, it may be necessary to attach pipe elbows in order to bring the connector into its proper plane. For easy movement of the appliance, the connector should be installed with a "lazy" loop for minimum tension.

Note: Gas appliances should be disconnected prior to maximum movement. (Minimal movement is possible to connect hose.)

B.8 Restraining Device Installation and Use

This high strength restrainer is to be used with all moveable (castered) appliances. It fully complies with American Gas Association requirements. References: Z21.69, Z83.11, and Z21.41 with current revisions. Installation is quick and positive. In Canada, device is in accordance with CAN 1-6.9-M70 Quick Disconnect Devices for use with gas fuel, and CAN 1-6.10-88 metal connectors for gas appliances. Correct length for any appliance is simply a matter of loosening two adjuster clips (1) and re-tightening. (3" to 6" shorter than appliance connector is desired length.) Restrainer is made of heavy duty steel cable, with a strong scissor hood (2) at one end, and an equally strong spring hook (3) at the other. Cotter pin (4) is supplied to secure the installation. For proper attachment to the broiler, use the supplied hardware to attach the device to the holes in the shear plate of the broiler stand.

NOTE: If disconnection of the restraint is necessary, reconnect the restraint after the appliance has been returned to its originally installed position.



IMPORTANT: This Restraining Device should be ordered with every connector for Movable appliances.

B.9 Electrical Connection

Power requirements are stated on the unit nameplate and must be connected accordingly. This appliance, when installed must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.2, as applicable. Before starting broiler, tighten all electrical connections in control box. An electrical wiring diagram can be found inside the control box.

Note: Disconnect power before servicing.

B.10 Pre-Operation Check

Be sure that all parts are installed in the proper location:

- Ventilation is turned on
- Broiler is plugged in
- Gas line is connected

C. OPERATION

C.1 Controls and Indicators

1. Belt Speed Control - Used to set the broil time for the meat belt NOTE: The JF63-2 is equipped with two (2) speed controls).

1.

2. Load Sensing Control - Used to help stabilize the broiler under load.

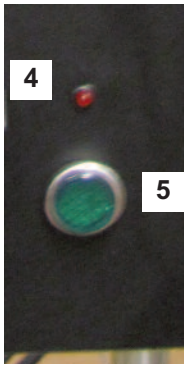
2.

3. Main On/Off Switch - Turns the broiler on and off.

4. Ignition Failure Light - If flashing, indicates the broiler is no longer lit.

5. Power Indicator Light - Glows green when the power to the broiler is on.

3.



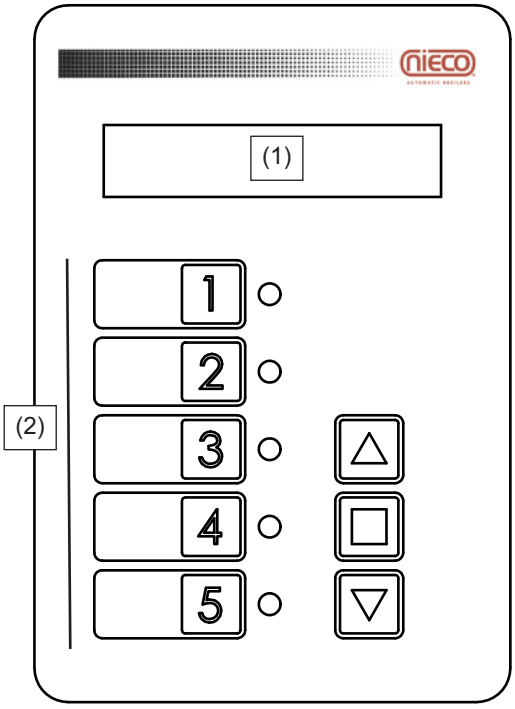
C. OPERATION

C.1 Controls and Indicators

6. Multi Product Control (P/N 15161-B) - Used to broil a variety of products that may require different settings (If equipped)

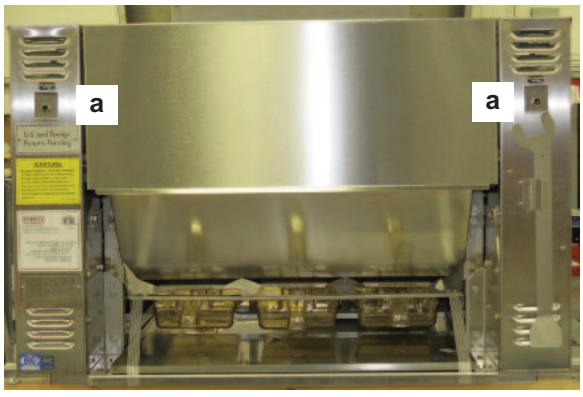
MULTI-PRODUCT CONTROL (If equipped)

1. LED DISPLAY - Shows current product selection and cook time.
2. PRODUCT SELECTION BUTTONS - Press to select different presets for different products.
3. ADJUSTMENT BUTTONS - Use to adjust product cook times, element settings and product names.
4. SELECTION INDICATOR LIGHT - Lights up to show which button is selected.



ON THE BACK OF THE BROILER

a. Belt Reverse Buttons - In the event the broiler gets jammed, use these buttons to reverse the direction of the meat belt to help clear the jam.



C.2 Lighting Procedures

PRE-LIGHTING PREPARATION

1. Broiler is centered under hood and plugged in
2. Gas valve is open when handle is in line (parallel to) the pipe
3. Turn ventilation system on

⚠ WARNING ⚠

THE VENTILATION SYSTEM MUST BE ON AT ALL TIMES DURING BROILER OPERATION. OPERATING BROILER WITHOUT PROPER VENTILATION IS A SEVERE FIRE HAZARD.

NORMAL IGNITION

The JF63 is equipped with automatic ignition. When the broiler is turned on, a hot surface ignitor turns on 5 seconds before the flow of gas. Gas then flows to all of the burners. If the burners are not lit within 10 seconds, the control will reset and try again for 10 seconds. This occurs 3 times. If the broiler does not light after the third attempt, the ignition failure light will flash and the main on/off switch must be cycled to repeat the procedure. If this still doesn't light the broiler, see the MANUAL IGNITION instructions.

1. Turn the **MAIN POWER SWITCH** on.

1.

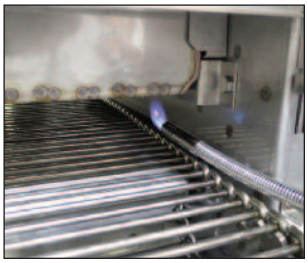
2. Allow broiler to heat for 45 minutes before cooking.

2.

C.2 Lighting Procedures (Continued.)

MANUAL IGNITION

1. Remove the return slide. Turn the **MAIN POWER SWITCH** on. Hold a lighter/match to the first upper burner on the discharge end until the burner lights. Once the first burner is lit, verify that all burners have ignited.



C.3 Shutdown Procedures

PLANNED SHUTDOWN

1. Allow the broiler to run free of any product for 10 minutes. This will burn the chain clean.
2. Turn off the **Main Power Switch**.

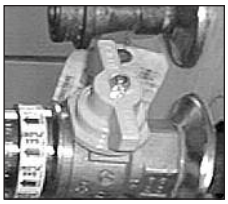
3. Wait for 30 minutes for the broiler to cool.

EMERGENCY SHUTDOWN

1. Turn off the **MAIN POWER SWITCH.**

2. Close the **MAIN GAS VALVE**

Valve is closed when it is perpendicular to pipe.



Your Nieco Automatic Broiler is designed to automatically stop gas flow to the broiler in the event of power failure, gas pressure loss or any other related incident. No attempt to operate this appliance should be made in the event of a power failure.

⚠ CAUTION ⚠

In a prominent location, post instructions to be followed in the event the user smells gas. This information shall be obtained by consulting your local gas supplier.

⚠ CAUTION ⚠

FOR YOUR SAFETY: Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

⚠ CAUTION ⚠

FOR YOUR SAFETY: In the event of a prolonged power failure, no attempt should be made to operate this appliance.

C.4 Control Operation

IMPORTANT: THIS BROILER IS SHIPPED WITH FACTORY PRESETS THAT MUST BE CHANGED.

If this is the initial start-up for your broiler, ALL controls must be adjusted to properly broil your product. Follow the steps outlined for calibration and changing preset times to properly set up this broiler.

CONTROL OPERATION

1. SETTING BELT SPEEDS

Press up arrow to increase broil time; press the down arrow to decrease broil time. After you have set the control the display will be flashing. Press the center square to save your changes. NOTE: After making changes to the broil time, if you do not press the center square button, your changes will not be saved.

2. LOAD SENSING CONTROL

How it works:

The load sensing control modulates the gas pressure to help keep the broiler stable during cooking.

3. CALIBRATION

Perform calibration in the morning when the broiler is cool.

a. Turn the broiler on and set the set point (bottom number on the control) to 1000. Let the broiler warm up for 25 minutes. Do not cook during the warm up period.

b. After the 25 minutes is up, use the arrows to put the set point to the actual temperature.

c. Your broiler is now calibrated.

Use the up and down arrows to set the time. Press the center square button to save your changes.

CONTROL OPERATION

1. Multi-Product Control (If equipped)
How it works: The multi-product control is designed to let you broil different products on the flex side of the broiler. The control allows you to have different broiler settings for each product selection button. Use a grease pen to mark the white area with the product name.

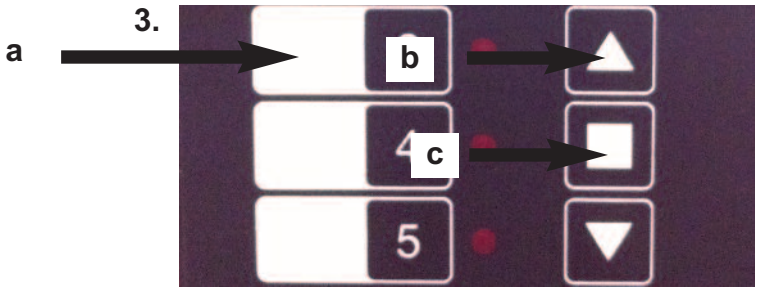
2. Normal Operation
Press the product selection button (number) for the product you wish to cook. The display will show the product name and cook time and the light next to the product selection button will be lit.

NOTE: Be sure the belt is clear of any products before pressing a new product selection button.

2.

3. Changing Belt Speeds
Push the product selection button (a) you want to adjust then push the up and down (b) arrows to make changes, then press the center square button (c) to save them.

3.



4. Changing Product Names
Push the product selection button which you want to make a name to. Press and hold the center square button for 15 seconds. The control will enter the edit name screen for that button. Use the up and down buttons to change the characters. Press center square button once to move to the next character until you are finished editing the product name for that button (10 character limit). Press and hold the PRODUCT SELECTION BUTTON for 5 seconds to save the changes and return to normal operation.

4.

D. CLEANING AND DISASSEMBLY

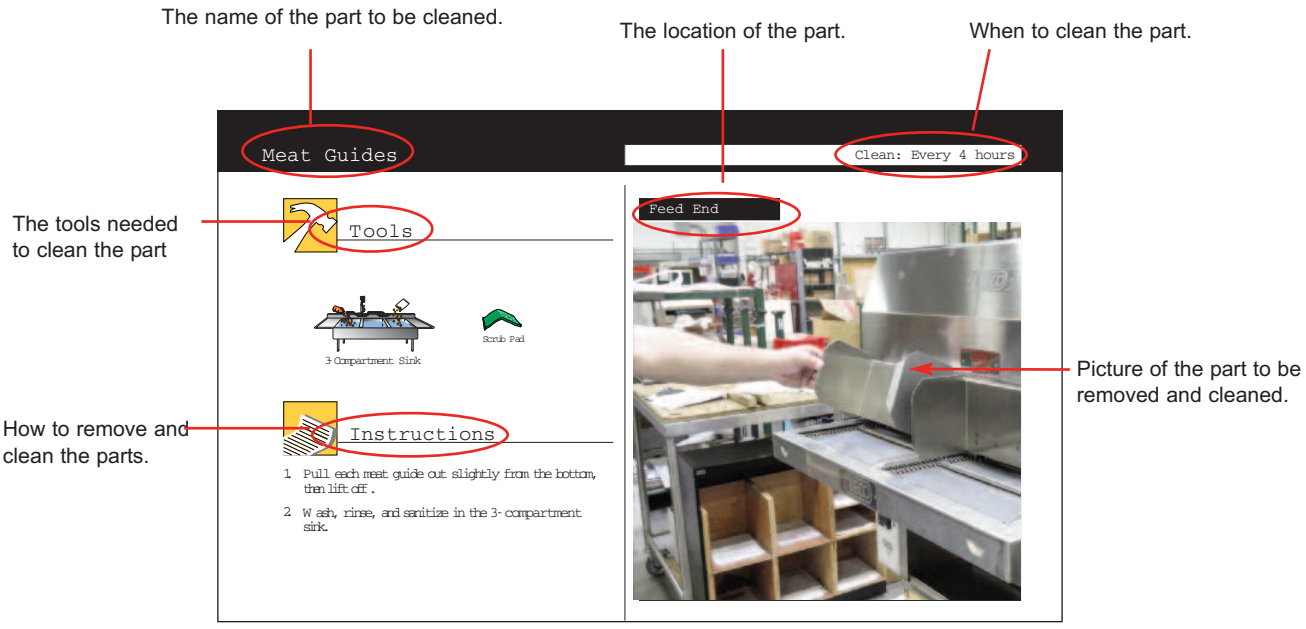
Turn broiler off and close the main gas valve. Disconnect the power supply to the broiler before cleaning or servicing. If this broiler is connected using a restraint, and disconnection of the restraint is necessary for cleaning or moving the broiler, the restraint must be reconnected after the broiler has been returned to its originally installed position. Allow to cool for 30 minutes prior to cleaning/disassembly. Leave the ventilation system on during cooling. Use only approved cleaning, degreasing and sanitizing solutions.

⚠ WARNING ⚠	⚠ CAUTION ⚠	WARNING
LEAVE THE VENTILATION HOOD ON DURING COOLING. FAILURE TO DO SO COULD POSE A FIRE SAFETY HAZARD.	Follow the Disassembly and Reassembly steps to ensure proper operation of the broiler. Failure to do so may result in operational problems.	BROILER PARTS ARE HOT. DO NOT ATTEMPT TO DISASSEMBLE THE BROILER UNTIL IT IS FULLY COOL. FAILURE TO FOLLOW THIS INSTRUCTION MAY RESULT IN SEVERE INJURY.

ALL PARTS ARE CLEANED ON A DAILY BASIS UNLESS OTHERWISE NOTED

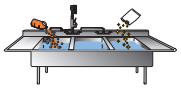
Follow the steps for proper disassembly. Reverse the order for reassembly.

How to read the cleaning section



Cleaning the Broiler

Tools Needed


3-Compartment Sink

Degreaser

Heat Resistant Gloves

Non-Scratch Pad

Scrub Pad

Soft Bristle Brush

Towel

Small Orifice Brush

Large Orifice Brush

Shaft Cleaning Tool

Important Symbols

This “Stop” sign shows a step in the procedure that must be followed exactly or personal safety could be affected.

This warning symbol shows a step in the procedure that must be followed exactly or broiler performance could be affected.

This “puzzle” symbol shows a step in the reassembly procedure that must be followed.

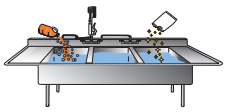
Instructions

1. 1. Allow the broiler to run free of product for 10 minutes before turning it off. This allows any residue to burn off the chains.
2. Shut the broiler off and let it cool for 30 minutes before disassembly and cleaning.
3. Close the main gas valve and unplug the broiler before cleaning.
4. Always leave the ventilation hood on during the 30 minute cool down period.
5. Use only approved cleaning solutions.
6. Allow parts to air dry after cleaning.

Front Heat Shield

Clean: Daily

Tools


3-Compartment Sink

Scrub Pad

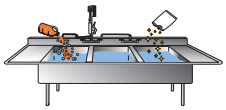
Instructions

1. Lift the Front Heat Shield up and off the broiler
2. Wash, rinse, and sanitize in the 3-compartment sink.

Feed End

Wire Belt Feeder Base (If equipped)

Tools



3-Compartment Sink

Scrub Pad

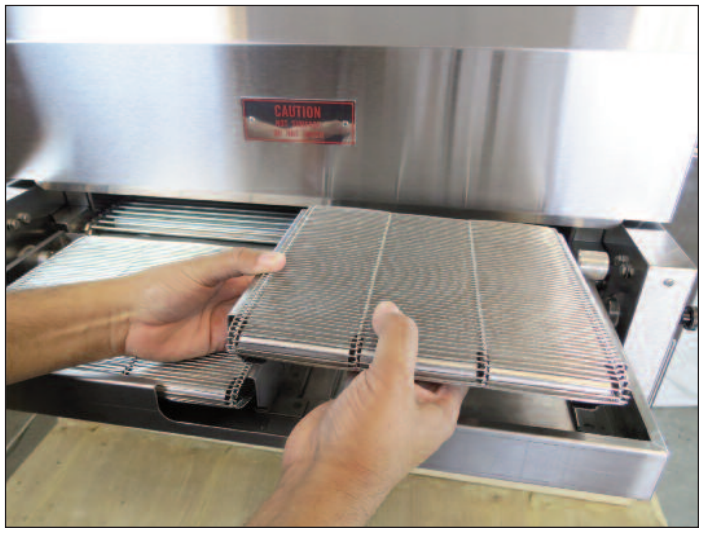
Instructions

1. Pull the release pin.
2. Lift wire belt feeder base up and off.
3. Wash, rinse, and sanitize in the 3-compartment sink.

DO NOT lift the feeder base by the wire belt. This will damage the feeder base.

REASSEMBLY: Pull the release pin and place feeder base in position.

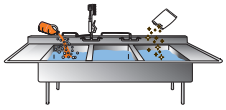
Feed End



Push Bar Feeder Base (If equipped)

Clean: Every 4 hours

Tools



3-Compartment Sink

Scrub Pad

Instructions

1. Pull the release pin.
2. Lift push bar and wire belt feeder bases up and off.
3. Wash, rinse, and sanitize in the 3-compartment sink.

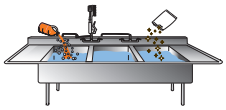
DO NOT lift the feeder base by the feeder bar or the chains. This will damage the feeder base.

REASSEMBLY: Pull the release pin and place feeder base in position.

Feed End

Feeder Housing

Tools



3-Compartment Sink

Scrub Pad

Instructions

1. Lift and remove.
2. Wash, rinse, and sanitize in the 3-compartment sink.

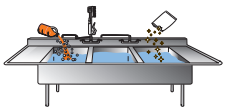
REASSEMBLY: Hang feeder housing on brackets.

Feed End

Grease Pan

Clean: Daily

Tools



3-Compartment Sink

Scrub Pad

Instructions

1. Slide grease pan out.

Make sure grease pan is cool before putting in water or it may warp the pans.

2. Take to sink area and spray with degreaser.
3. Wash with a scrub pad, rinse, and sanitize in the 3-compartment sink.

Feed End

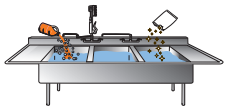
Grease Catch Pan

Clean: Daily

Tools

Scrub Pad

Degreaser



3-Compartment Sink

Instructions

1. Lift and remove.
2. Wash, rinse, and sanitize in the 3-compartment sink.

Feed End

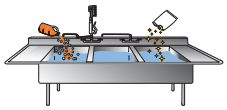
Crumb Tray

Clean: Daily

Tools

Scrub Pad

Degreaser

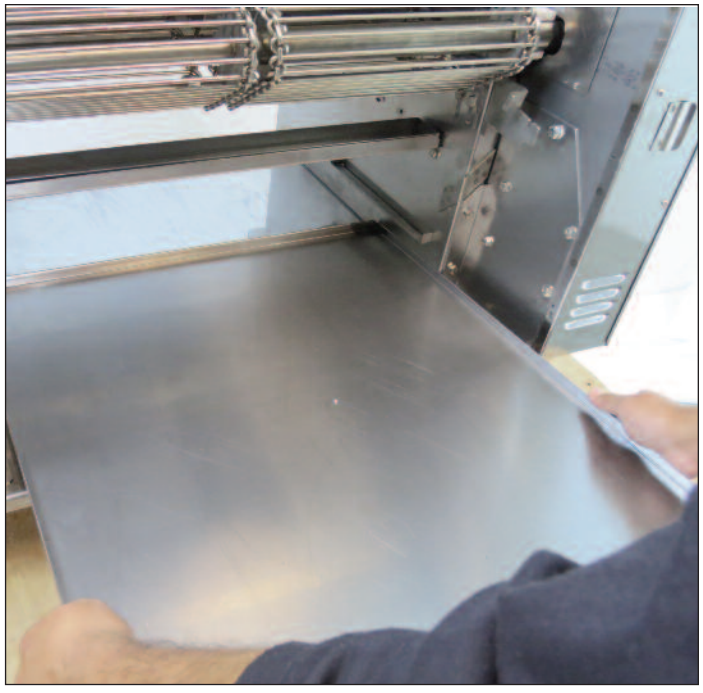


3-Compartment Sink

Instructions

1. Slide crumb tray out.
2. Take to sink area and spray with degreaser.
3. Wash with a scrub pad, rinse, and sanitize in the 3-compartment sink.

Feed End



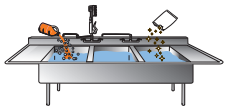
Awning

Clean: Daily

Tools

Scrub Pad

Degreaser



3-Compartment Sink

Instructions

1. Lift the Awning up and off mounting bracket.
2. Take to sink area and spray with degreaser.
3. Wash with a scrub pad, rinse, and sanitize in the 3-compartment sink.

Discharge End

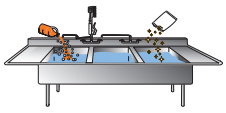
Sizzle Plate

Clean: Daily

Tools

Scrub Pad

Degreaser



3-Compartment Sink

Instructions

1. Lift the Sizzle Plate out of Discharge Pan.
2. Take to sink area and spray with degreaser.
3. Wash with a scrub pad, rinse, and sanitize in the 3-compartment sink.

Discharge End

Discharge Pan

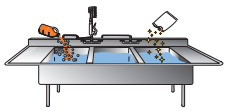
Clean: Daily

Tools

Heat Resistant Gloves

Scrub Pad

Degreaser



3-Compartment Sink

Instructions

1. Lift up and off.
2. Take to sink area and spray with degreaser.
3. Wash, rinse, and sanitize in the 3-compartment sink.

Discharge End

Stripper Blade

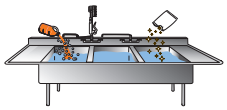
Clean: Daily

Tools

Heat Resistant Gloves

Scrub Pad

Degreaser



3-Compartment Sink

Instructions

1. Lift up and off.
2. Take to sink area and spray with degreaser.
3. Wash, rinse, and sanitize in the 3-compartment sink.

Discharge End

Stripper Blade

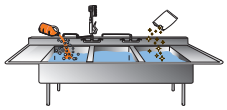
Clean: Daily

Tools

Heat Resistant Gloves

Scrub Pad

Degreaser



3-Compartment Sink

Instructions

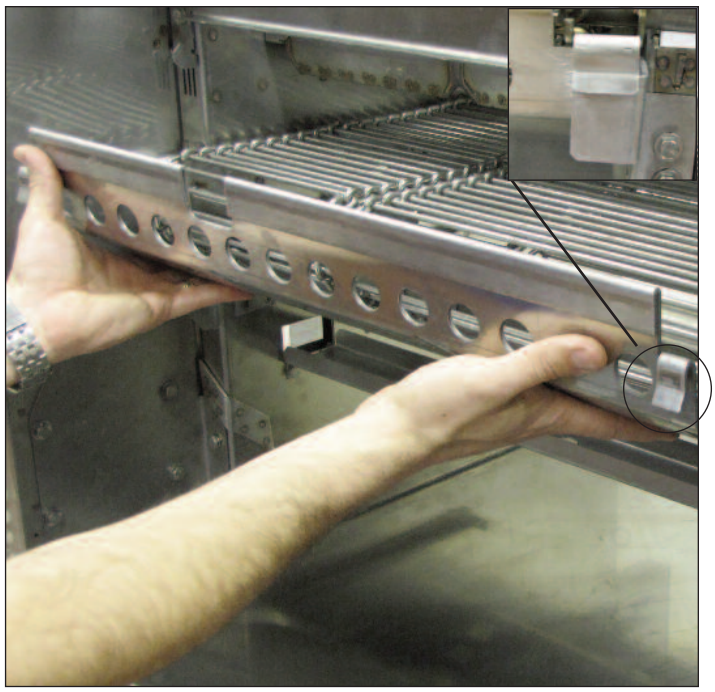
1. Tilt stripper blade away from chain; lift off brackets.

Make sure stripper blade is cool before putting in water or it may warp.

2. Take to sink area and spray with degreaser.
3. Wash with a scrub pad, rinse, and sanitize in the 3-compartment sink.

REASSEMBLY: Hang stripper blade on brackets.

Discharge End



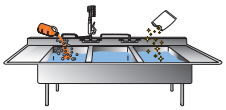
Grease Trough

Clean: Daily

Tools

Scrub Pad

Degreaser



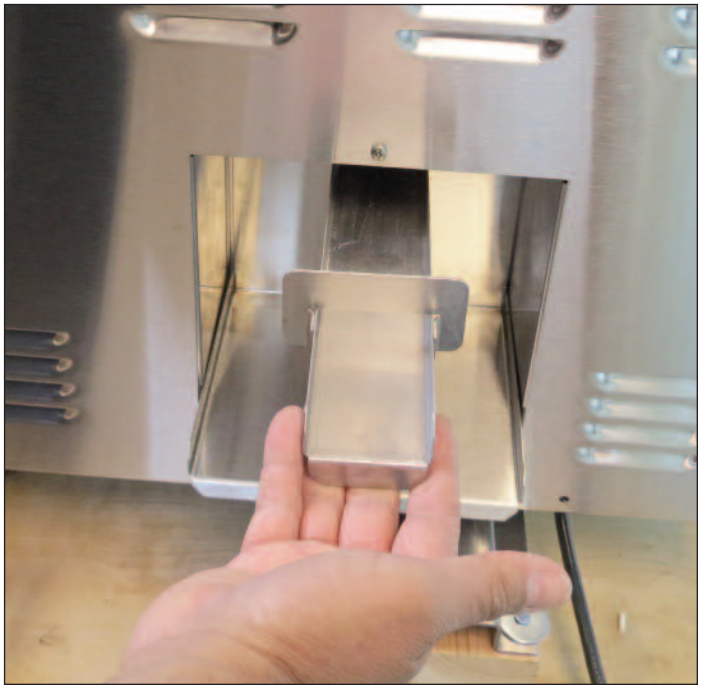
3-Compartment Sink

Instructions

1. Lift and slide the grease trough out of the broiler.
2. Take to sink area and spray with degreaser.
3. Wash with a scrub pad, rinse, and sanitize in the 3-compartment sink.

REASSEMBLY: Be sure grease trough is pushed all the way into the broiler.

Side



Chain Shafts

Clean: Daily

Tools

Shaft Cleaning Tool

Instructions

1. Scrape each shaft of both belts on the discharge end with the wide end of the shaft cleaning tool. The tool is located on the clip on the discharge end of the broiler.
2. Wipe shaft cleaning tool with a towel.

Discharge End

Cleaning Inner Shield

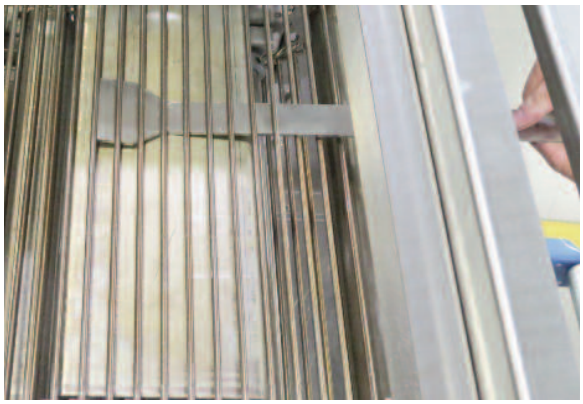
Clean: Daily

Tools

Shaft Cleaning Tool

Instructions

1. Reach between belt with Shaft cleaning tool to scrape deposits from inner shield.



Belt Adjustment

Adjust: As Needed

Tools

Instructions

1. Remove return slide and stripper blade.
2. Loosen slotted crossbar bracket with 7/16 wrench.
3. Pry on Shaft to adjust belt.
4. Tighten bolts.

Incendalyst™ - If no perforated cap

Clean: Daily

Tools

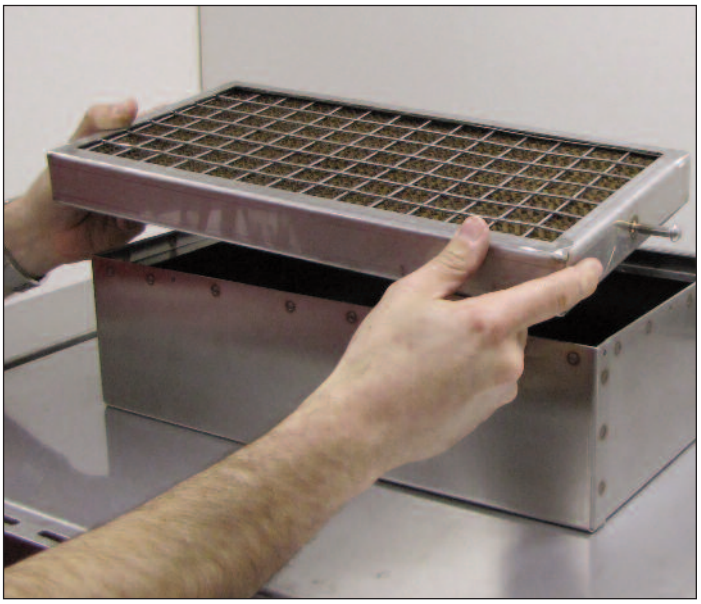
Heat Resistant Gloves

Instructions

EXTREMELY HOT! Be careful not to burn yourself.

1. Grasp handle and lift Catalyst off to remove from Shroud.
2. SOAK IN WARM WATER FOR 1 HOUR. RINSE WITH WATER ONLY. NEVER USE ANY CHEMICALS ON THE CATALYST.
3. Lay flat to drain water and let air dry overnight.
4. Make sure catalyst is dry before putting back on broiler.

Top



CAUTION: Extremely Hot

Hood Shroud

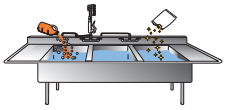
Clean: Daily

Tools

Heat Resistant Gloves

Scrub Pad

Degreaser



3-Compartment Sink

Instructions

EXTREMELY HOT! Be careful not to burn yourself.

1. Lift Shroud from broiler.
2. Take to sink area and spray with degreaser.
3. Wash with a scrub pad, rinse, and sanitize in the 3-compartment sink.

Top

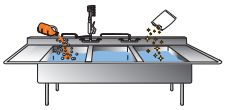
CAUTION: Extremely Hot

Upper Heat Shield

Clean: Daily

Tools

Heat Resistant Gloves


3-Compartment Sink

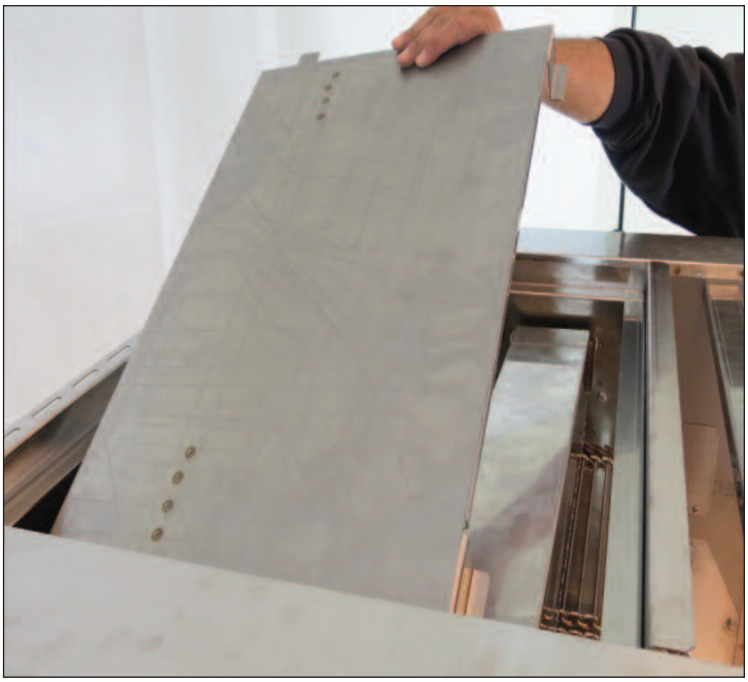
Scrub Pad

Instructions

EXTREMELY HOT! Be careful not to burn yourself.

1. Lift upper heat shield up and off.
2. Take to sink area and spray with degreaser.
3. Wash with a scrub pad, rinse, and sanitize in the 3-compartment sink.

Top

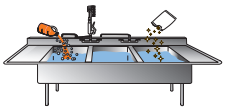


Upper Burner/Air Box

Clean: Daily

Tools

Heat Resistant Gloves


3-Compartment Sink

Scrub Pad

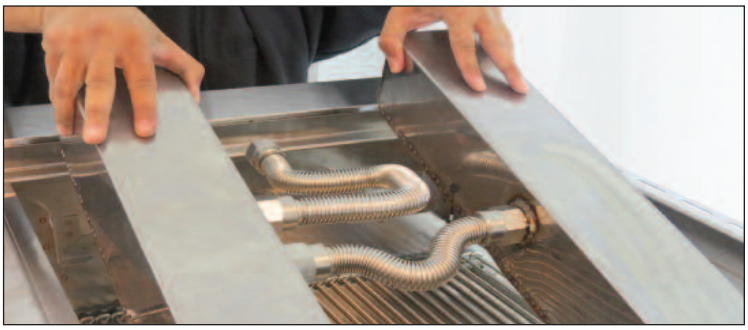
Instructions

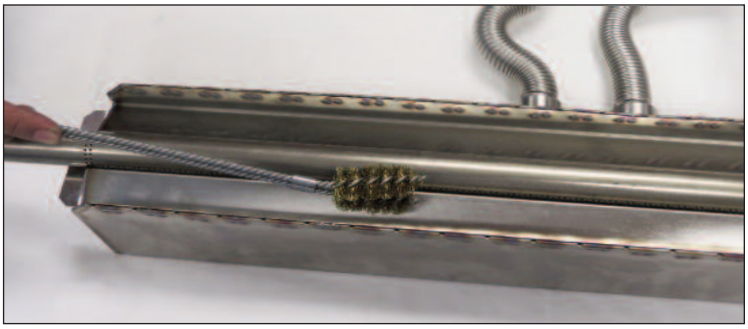
EXTREMELY HOT! Be careful not to burn yourself

1. Lift air upper burner and air box from the top of the broiler. It is not necessary to detach them from each other.
2. Use a stiff brush to clean any clogged burner holes / air vent holes.

Be sure that both air box assemblies are installed and sit flush on their brackets.

Top





Main Burner Orifices

Clean: Monthly

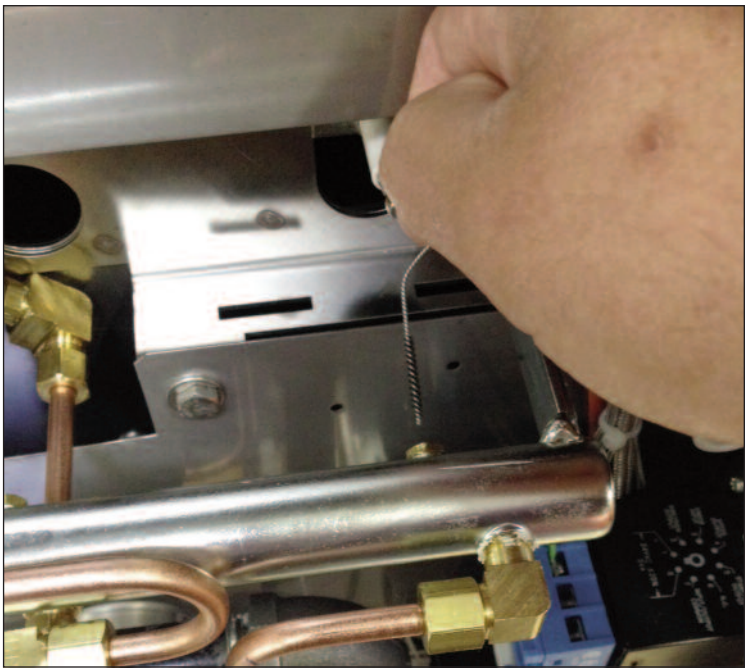
Tools

Small Orifice Brush

Instructions

1. Use a small brush to clean the main burner orifices

Side



Flame Sensor

Clean: Monthly

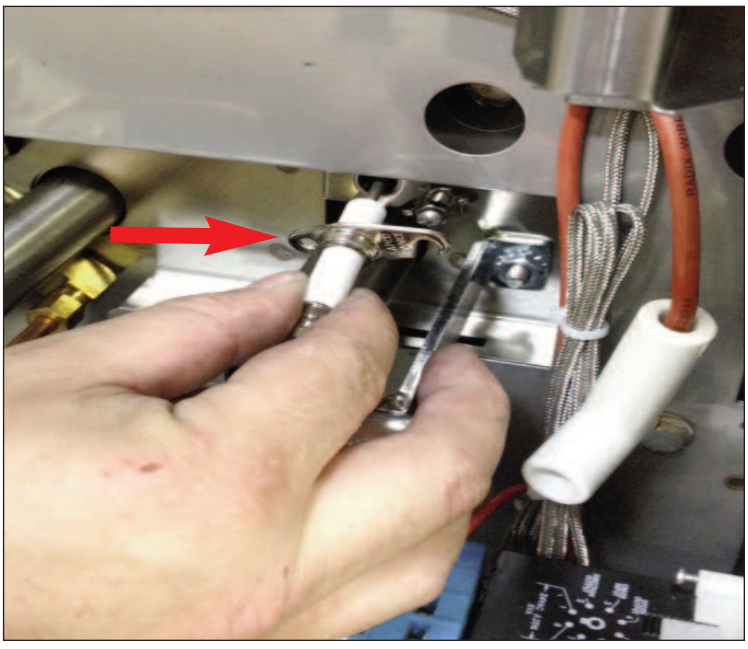
Tools

Scrub Pad

Instructions

1. Remove the left side control box cover.
2. Remove the ceramic boot from the back of the flame sensor.
3. Loosen the wing nut holding the flame sensor in place.
4. Remove the flame sensor and clean the metal tip with a DRY, clean scrub pad.

Side



E. TROUBLESHOOTING

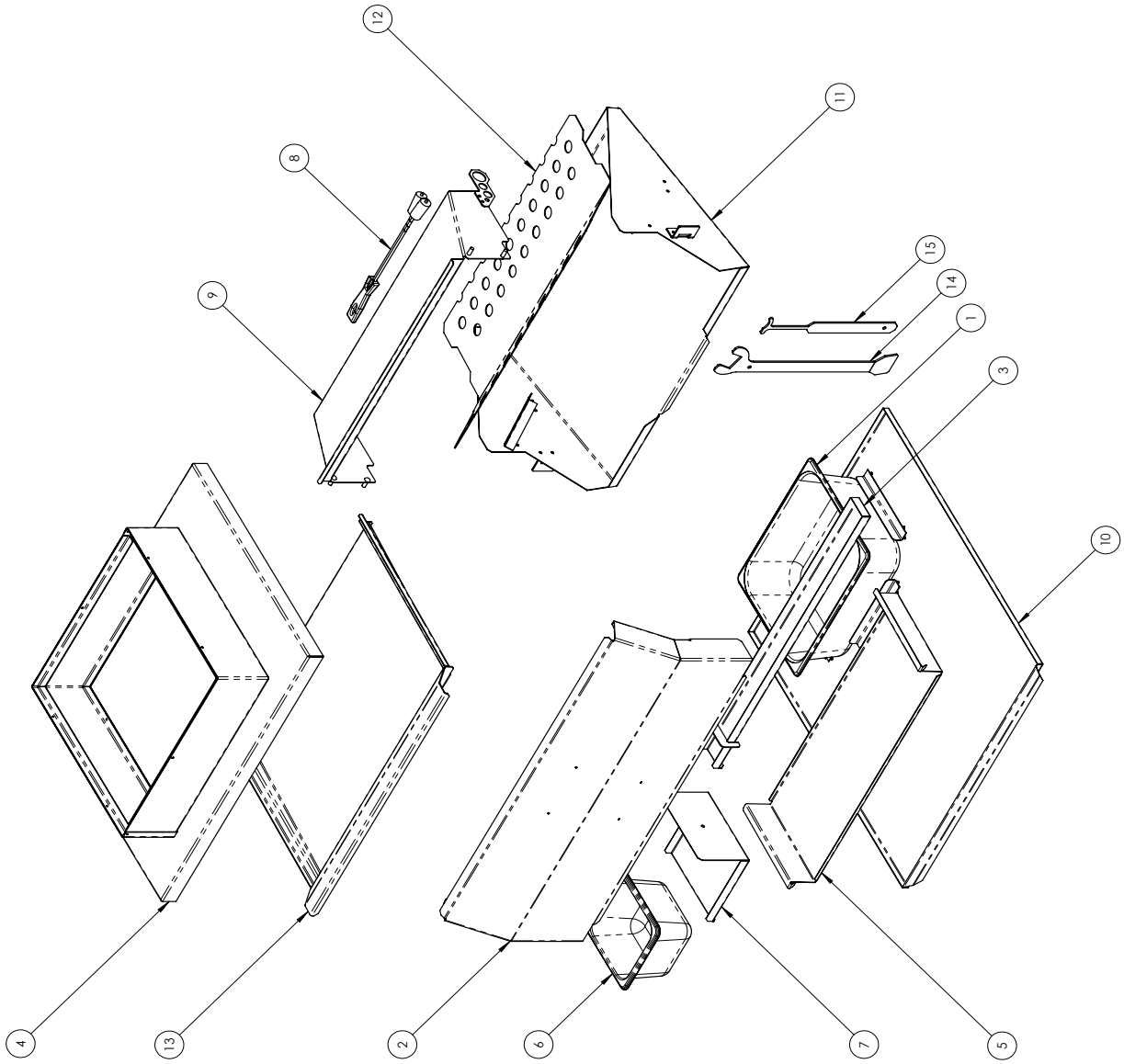
Always verify that the broiler is properly assembled, the hood is on, gas valve open and broiler is plugged in.

No power to broiler when the switch is turned on.	Check: Broiler is plugged in. Ventilation hood is on. Circuit Breaker on wall panel is on.
Broiler has power, but the burners do not light.	Check: Ventilation hood is on. Gas line is properly plugged in. Manual gas valve (if equipped) is on. Burners are installed properly. Burners are clean and dry. Flame sensor wire connection. Follow manual lighting instructions.
Red light blinking on left control box.	Check the items above for burners not lighting. Turn power off and on again to reset ignition. Follow manual lighting instructions.
Hot surface ignitor does not heat.	Check for loose wires connecting the hot surface ignitor. Follow manual lighting instructions.
Power is on, broiler is lit, but the conveyor belts are not turning.	Check for a jam in the conveyor belt. Check the stripper blade and the flame arrestors to make sure they are installed properly.
Feeder belt not moving.	Make sure the feeder is assembled properly. Check for jam. Make sure the drive pin is engaged.
Feeder jams.	Make sure the burgers are not frozen together.
Burgers sticking to slide or stripper blade.	Clean the slide and stripper blade very thoroughly. Check cookout temperature (undercooking).
COOKING PROBLEMS Burgers under or over cooked.	Adjust conveyor belt speed. Clean burners and orifices.
Excessive flaming in broiler.	Clean the catalyst if equipped. Check the hood for proper operation. Check product for overcooking.

F. PARTS LOCATION DRAWINGS

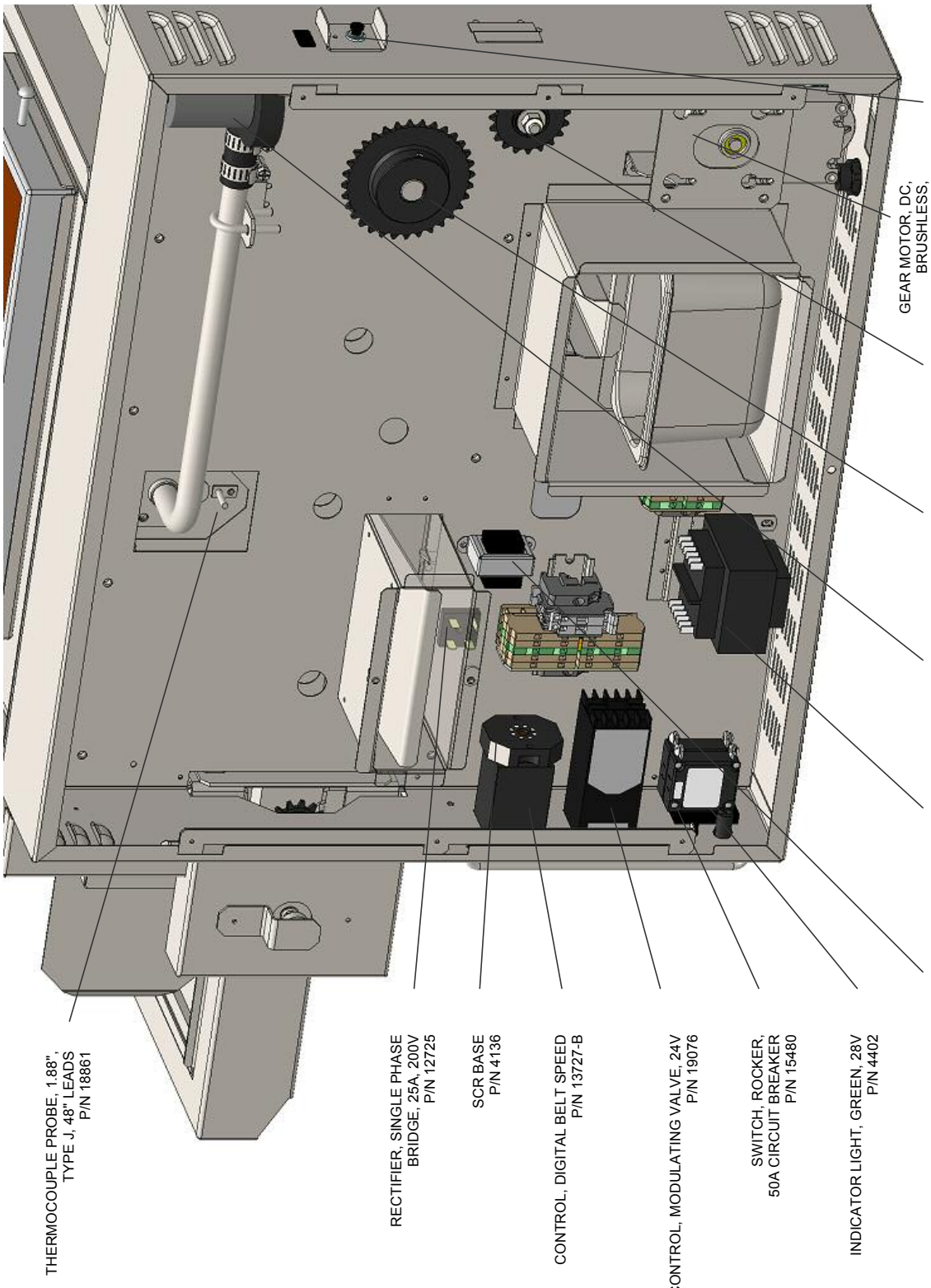
SHIELDS AND PANS

QTY.	PART NO.	DESCRIPTION	ITEM NO
1	25333	TOOL, SHAFT, CLEANING, JF-E	15
1	25332	TOOL, COMBINATION, WRENCH, JF-E	14
1	24211	GREASE PAN, SLOPED, 23" WIDE FRAME, JF	13
1	23532	INSERT, PATTY CATCH PAN, 23" FRAME, JF	12
1	23524	PAN, PATTY CATCH, FT, 23" FRAME, JF - WLDMT	11
1	23471	TRAY, GREASE, FLOW THRU, 23" FRAME - WLDMT	10
1	23466	AWNING, FLOW THRU, 23" FRAME, JF - WLDMT	9
1	23307	BRUSH, CLEANING, JF	8
1	22899	TRAY, GREASE DIVERTER, 1/6 HOTEL PAN, JF	7
1	22898	PAN, HOTEL, 1/6 X 4" DEEP	6
1	22634	HEAT SHIELD, HOLDING PAN, 23" FRAME	5
1	22632	HOOD, CHIMNEY, 23" FRAME, JF, HC - WLDMT	4
1	21204	TRAY, SLUDGE, GREASE, 23" FRAME - WLDMT	3
1	21201	HEAT SHIELD, FEEDER/FRAME, 23" FRAME, JF	2
1	9452	GREASE BOX, (12 x 10 x 4")	1



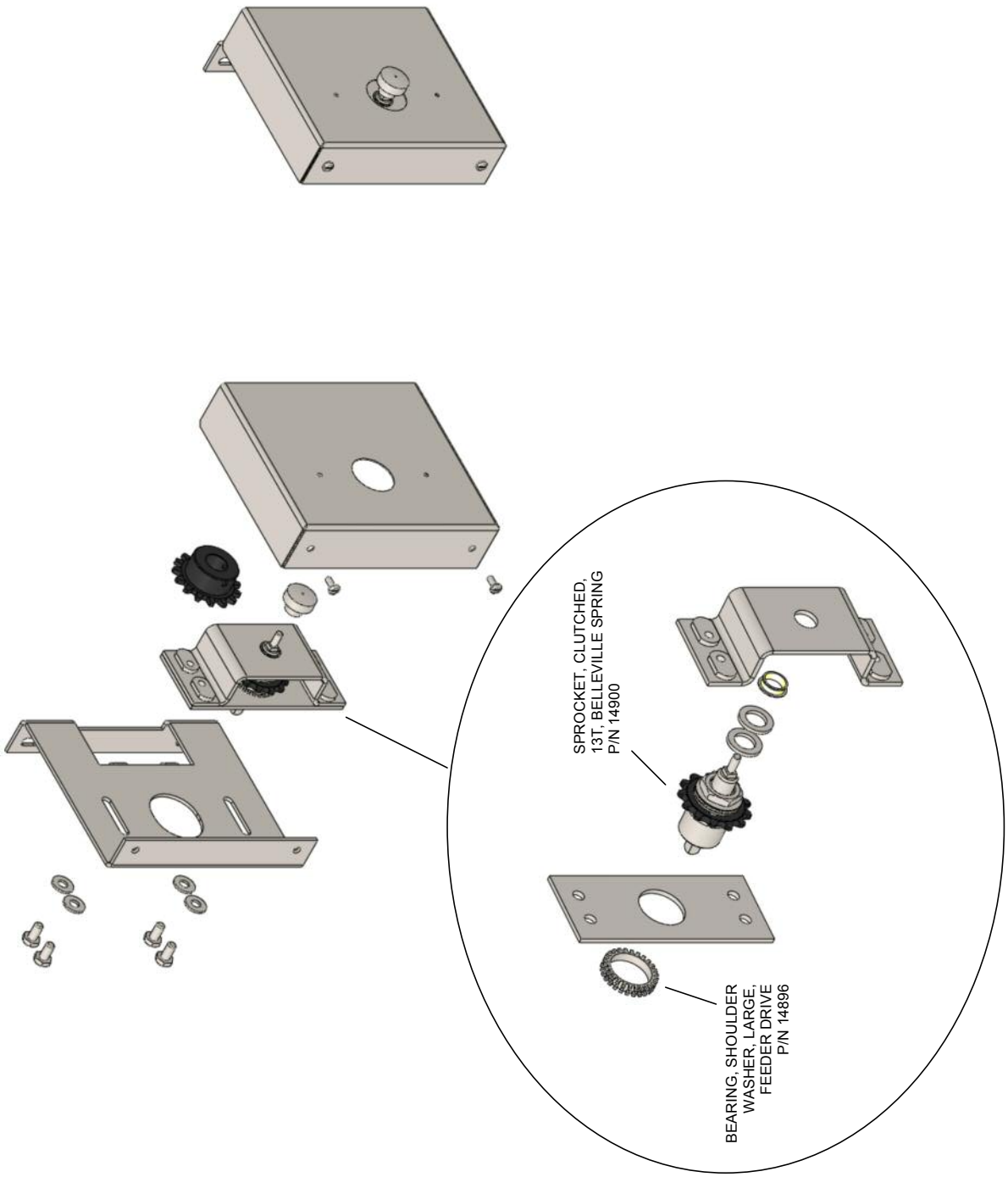
F. PARTS LOCATION DRAWINGS

RIGHT SIDE CONTROL BOX

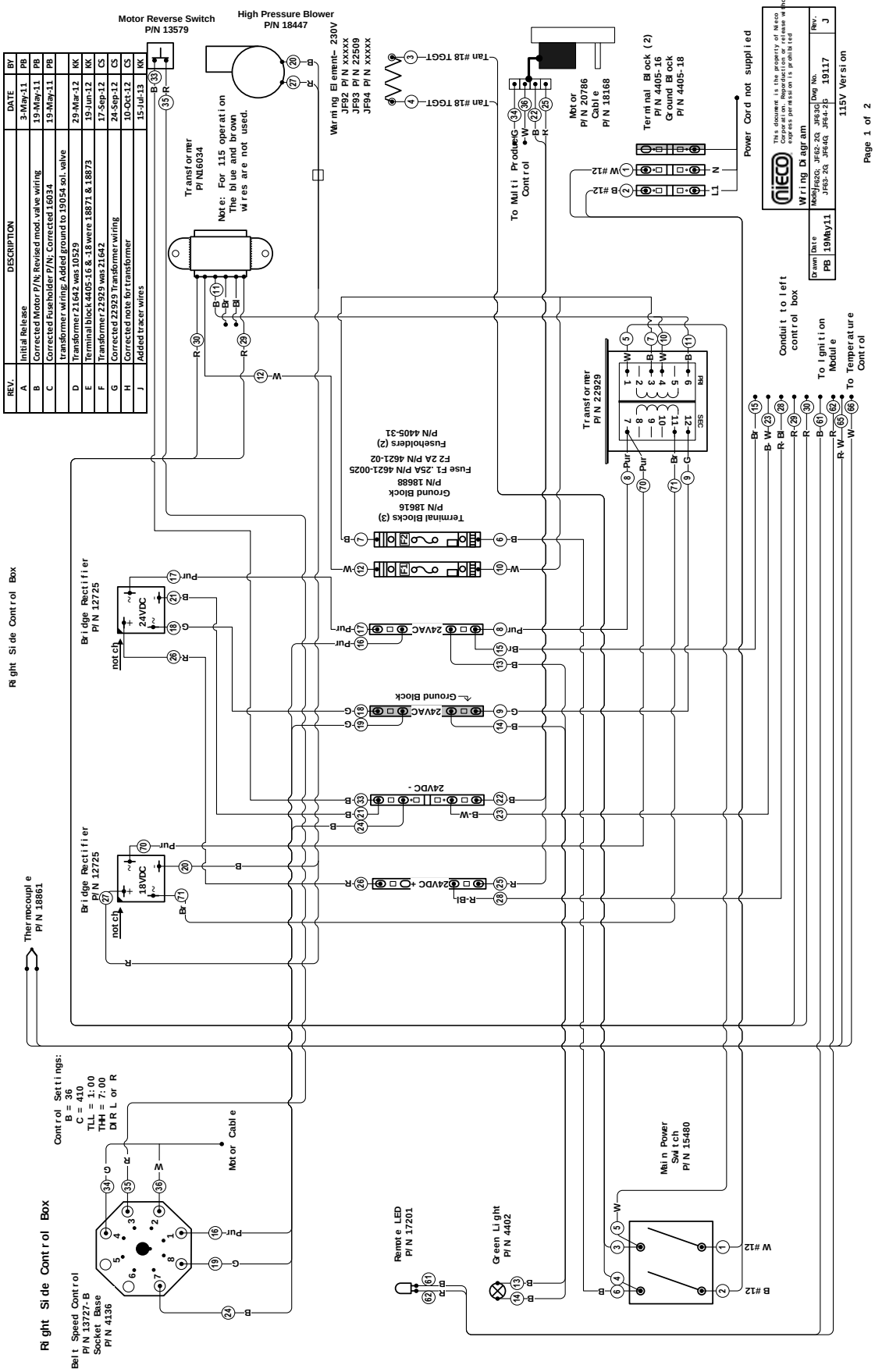


F. PARTS LOCATION DRAWINGS

FEEDER BRACKET ASSEMBLY

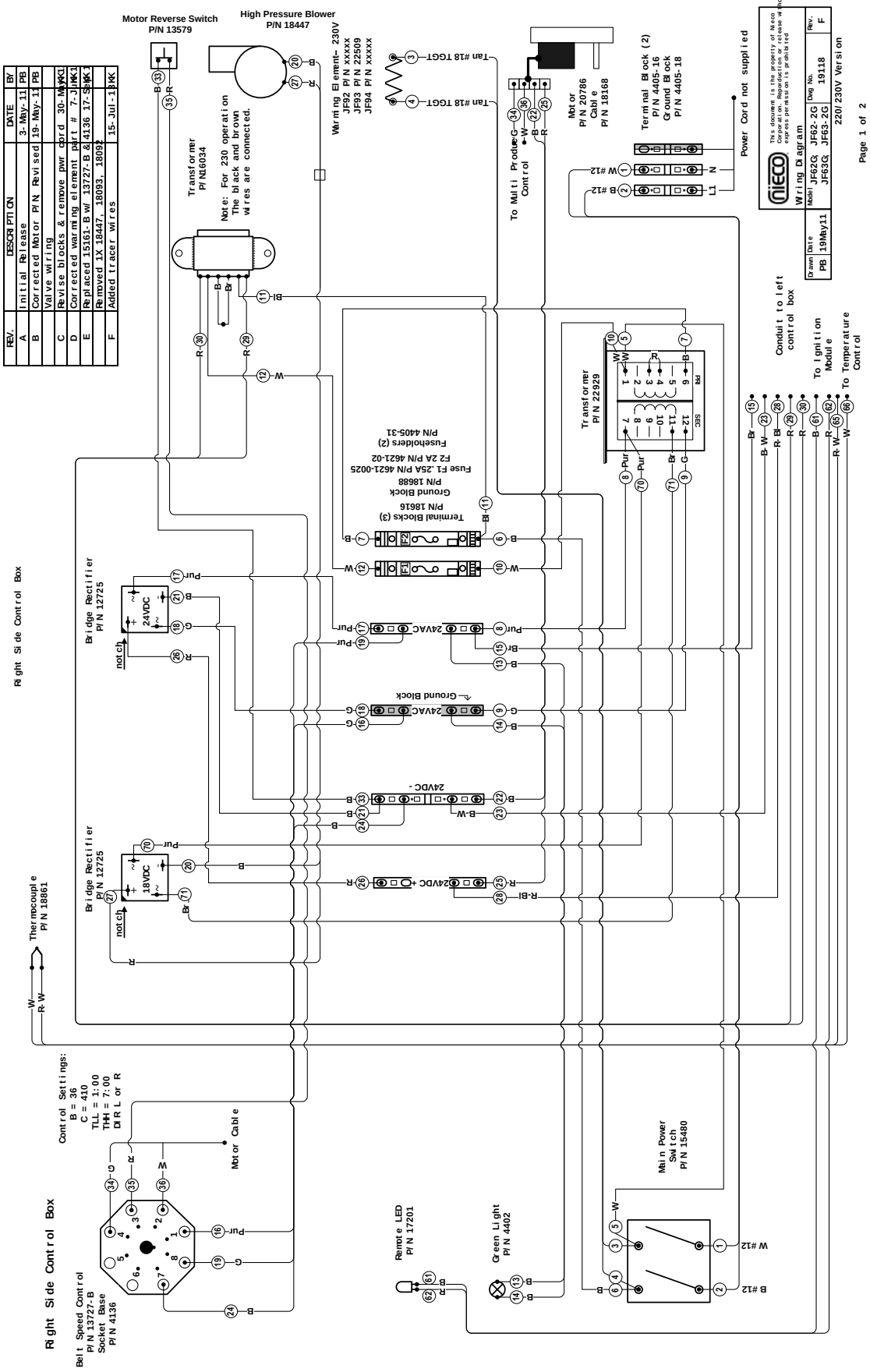


G. Wiring Diagrams



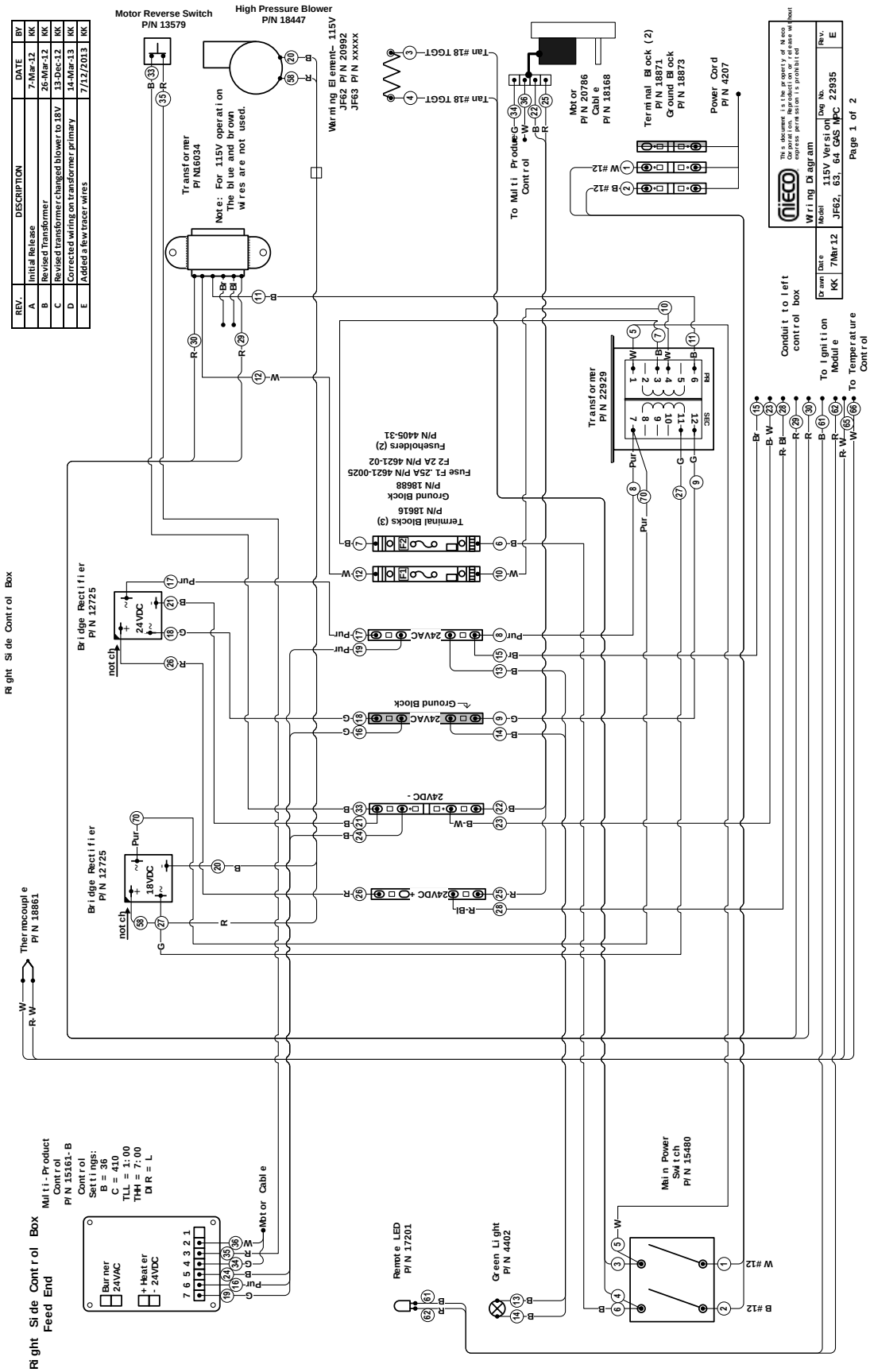
REV.	DESCRIPTION	DATE	BY
A	Initial Release	3-May-11	PB
B	Corrected Motor P/N; Revised mod. valve wiring	19-May-11	PB
C	Corrected Fuseholder P/N; Corrected 16034 transformer wiring; Added ground to 19054 sol. valve	19-May-11	PB
D	Transformer 21642 was 10529	29-Mar-12	KK
E	Terminal block 4405-16 & 18 were 18871 & 18873	19-Jun-12	KK
F	Transformer 22929 was 21642	17-Sep-12	CS
G	Corrected 22929 Transformer wiring	24-Sep-12	CS
H	Corrected note for transformer	10-Oct-12	CS
J	Added tracer wires	15-Jul-13	KK

G. WIRING DIAGRAM

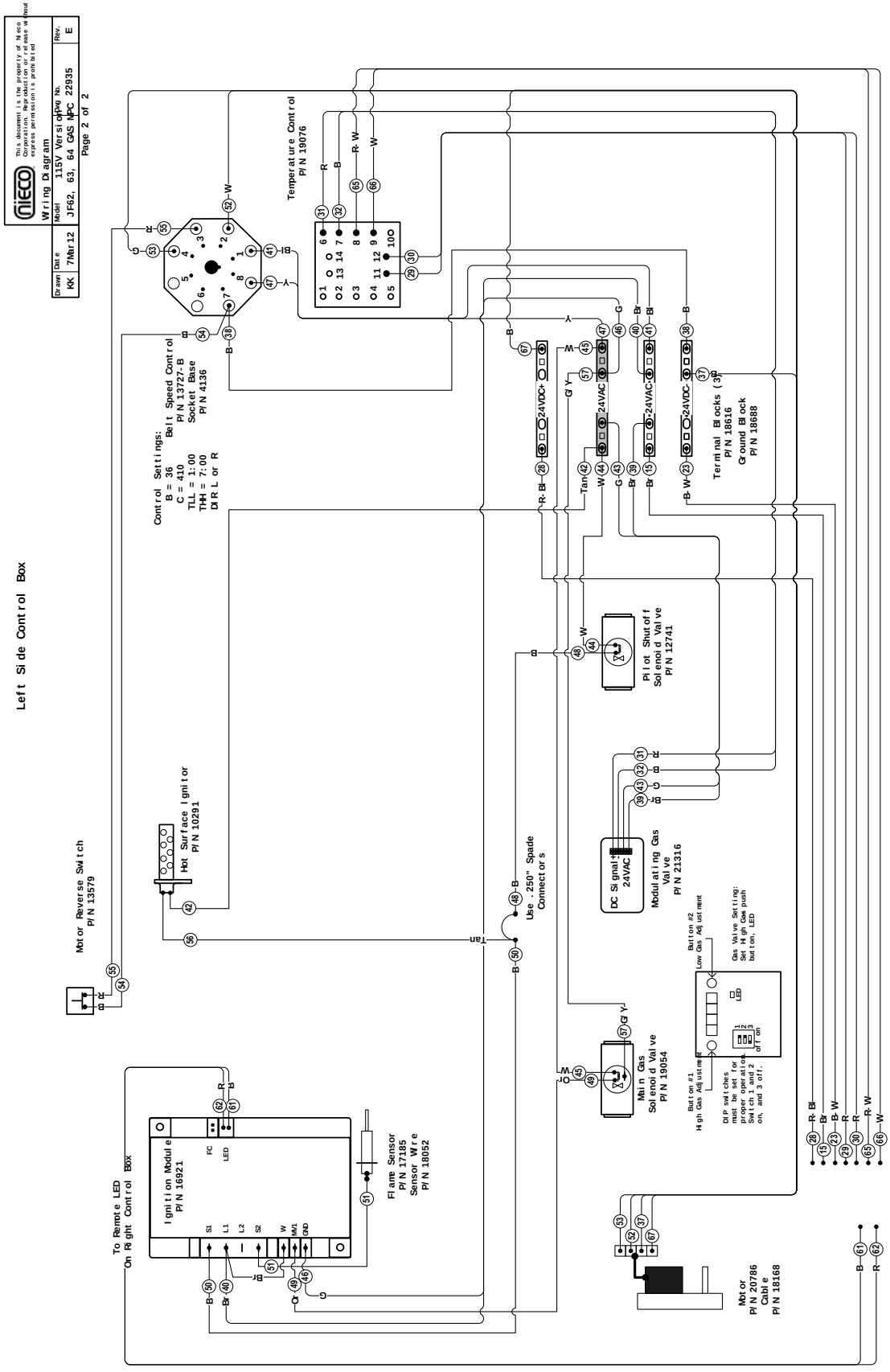


REV.	DESCRIPTION	DATE	BY
A	Initial Release	3- May- 11	PB
B	Corrected Motor P/N Revised	19- May- 11	PB
	Valve wiring		
C	Revise blocks & remove pwr cord	30- May- 11	KK
D	Corrected warming element part #	7- Jun- 11	KK
E	Replaced 15161- B w/ 13727- B & 4136	17- Sep- 12	KK
	Removed 1X 18447, 18093, 18092		
F	Added tracer wires	15- Jul - 13	KK

G. WIRING DIAGRAM - MULTI-PRODUCT CONTROL



G. WIRING DIAGRAM - MULTI-PRODUCT CONTROL



H. SPECIFICATIONS

AUTOMATIC BROILER
Model JF63/63-2

DIMENSIONS	INCH	MM
Length	39.03	991
Height	27.14	689
Width	34.73	882

ENERGY

Gas connection 3/4” N.P.T.

Electrical connection (specify exact voltage)

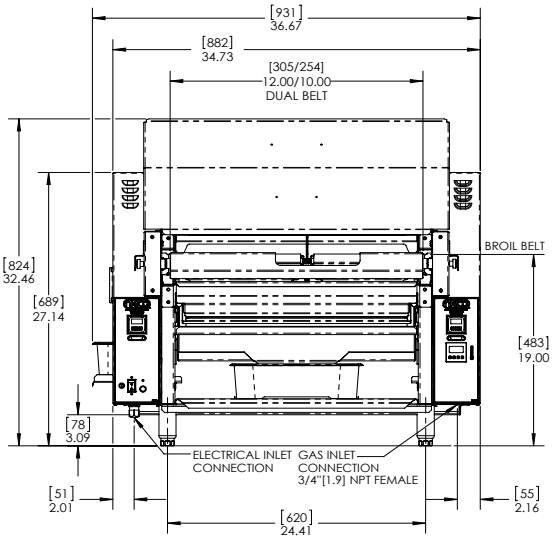
115V 5A or 220V 3A

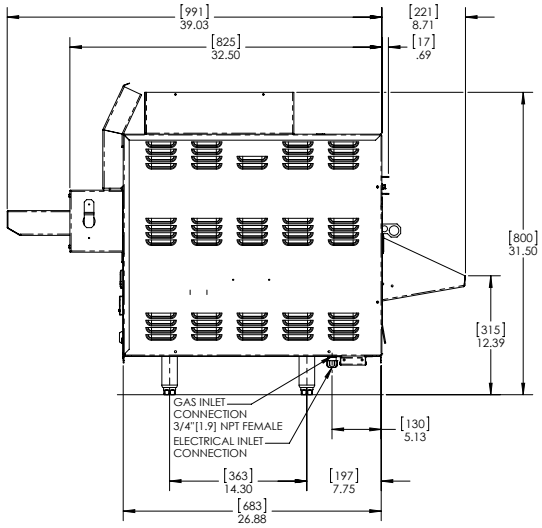
Natural/LP Gas Operating Usage

Average usage::

BTU/hr	50,843

WEIGHT	LBS
Broiler	350





⚠ CAUTION ⚠

All electrical connections must be in accordance with local electrical codes and any other applicable codes.

⚠ CAUTION ⚠

Do not operate the broiler at gas pressures other than those stated here. Doing so will affect the operation of your broiler.

Revision History:

Date	Notes	REV
4-2-2013	Released	A
7-10-2015	General updates	B

Nieco Corporation
7950 Cameron Drive
Windsor, CA 95492
(707) 284-7100 Office • (707) 284-7430 Fax
www.nieco.com • e-mail: service@nieco.com
Printed in the USA © 2011 Nieco Corporation
All Rights Reserved • Reorder P/N 99006