

Installation & Operation Manual



ONEREV

Rotating Oven

Electric

ONEREV WS-ERV-71-E

**READ ALL INSTRUCTIONS BEFORE
INSTALLING AND USING THE APPLIANCE**

WOOD  STONE

WOOD STONE CORPORATION

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**INSTALLATION & OPERATION MANUAL FOR THE
WOOD STONE ONEREV OVEN**

ELECTRIC ROTATING OVEN

WS-ERV-71-E-03

WS-ERV-71-E-04

ADDITIONAL COPIES AVAILABLE UPON REQUEST



**WOOD STONE WS-ERV INSTALLATION AND OPERATING INSTRUCTIONS****RETAIN THIS MANUAL FOR FUTURE REFERENCE**

Additional copies of this manual and prompt responses to service/maintenance questions are available from Wood Stone @ 1-800-988-8103.

READ ALL INSTRUCTIONS BEFORE INSTALLING AND USING THIS APPLIANCE

Please read this entire manual before you install the oven. Failure to follow instructions may result in property damage, bodily injury or even death. Contact your local building or fire officials about restrictions and installation inspection in your area.

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

ESURE DE SÉCURITÉ: Ne pas entreposer ni utiliser de l'essence ni autres vapeurs ou liquides inflammables à proximité de cet appareil ou de tout autre appareil.

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

AVERTISSEMENT: L'installation, le réglage, la modification, la réparation ou l'entretien incorrect de cet appareil peut causer des dommages matériels, des blessures ou la mort. Lire attentivement les instructions d'installation, de fonctionnement et d'entretien avant de procéder à son installation ou entretien.

Always keep the area under and around this appliance free and clear of any and all combustible materials.

IF THIS OVEN IS NOT PROPERLY INSTALLED A FIRE MAY RESULT. TO REDUCE THE RISK OF FIRE, FOLLOW THESE INSTALLATION INSTRUCTIONS. A MAJOR CAUSE OF OVEN RELATED FIRES IS FAILURE TO MAINTAIN REQUIRED CLEARANCES (AIR SPACES) TO COMBUSTIBLE MATERIALS. IT IS OF UTMOST IMPORTANCE THAT THIS OVEN BE INSTALLED ONLY IN ACCORDANCE WITH THESE INSTRUCTIONS.

WARNING: In the event of a power failure, no attempt should be made to operate this appliance. Disconnect power to the oven before servicing or cleaning.

SAVE THE INSTRUCTIONS

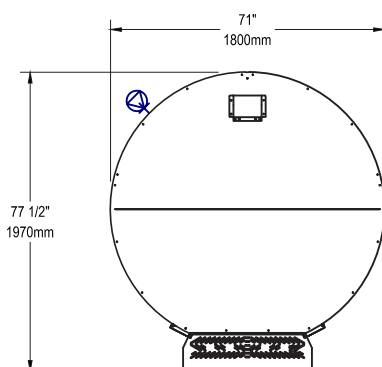
Wood Stone's OneRev ovens have been tested and approved by Intertek Testing Services, and are ETL Listed to UL 197 ANSI/CSA 22.2 and to NSF/ANSI Standard 4 - 2022.



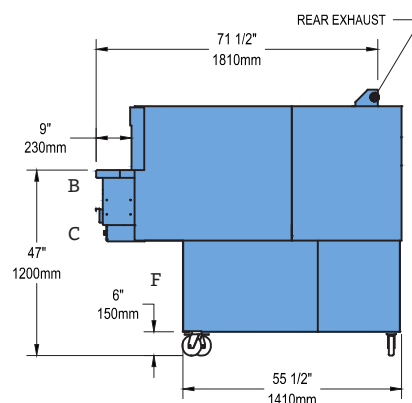


A	Flue Collar
B	Mantel
C	Control Panel
D	Function Switch
E	Casters
	Electrical Connection
F	Service Panel
G	Arch
	Must Be Left Removable for Service

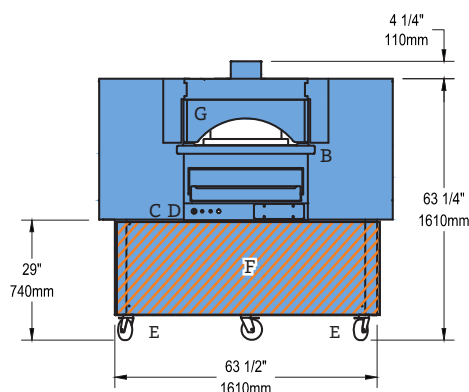
PLAN VIEW



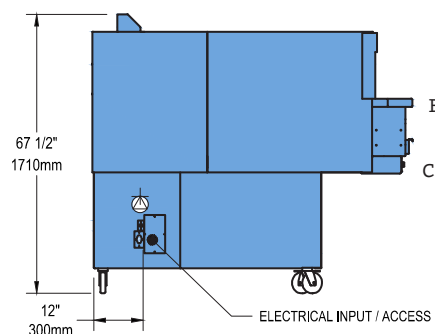
RIGHT SIDE VIEW



FRONT VIEW



LEFT SIDE VIEW



UTILITIES SPECIFICATIONS

ELECTRICAL

Model WS-ERV-71-03 : 208 VAC 3P 20.1 kW 56 A

Model WS-ERV-71-04: 240 VAC 3P 27.4 kW 66 A

VENTING INFORMATION

The OneRev Rotating Oven with the optional eyebrow hood added can be direct connected to a power-ventilated, grease-rated chimney or can be vented with a Listed Type 1 exhaust hood, or one constructed in accordance with NFPA 96 and all relevant local and national codes. The oven must be vented in accordance with all relevant local and national codes, and in a manner acceptable to the authority having jurisdiction.

With direct connect: 250 CFM with .1" WC static pressure. 6" ID flue collar (only applies if optional eyebrow hood— WS-ERV-7-EXB—is added.)

Ship Weight: 1,600 lbs / 726 kg

M0372.00 JUNE 2026

An ongoing program of product improvement may require us to change specifications without notice.

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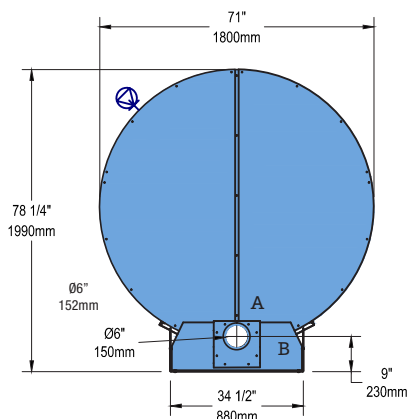
2 WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

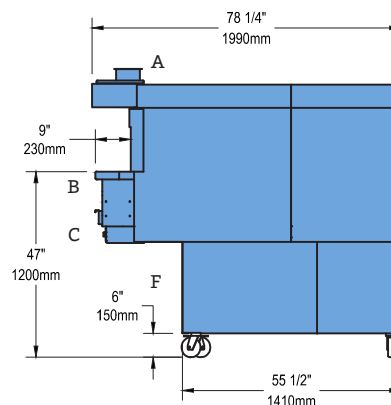


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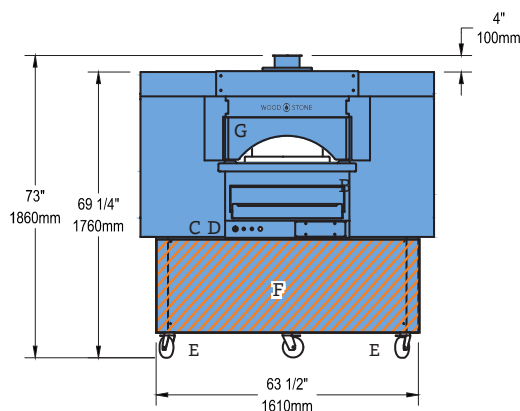
PLAN VIEW



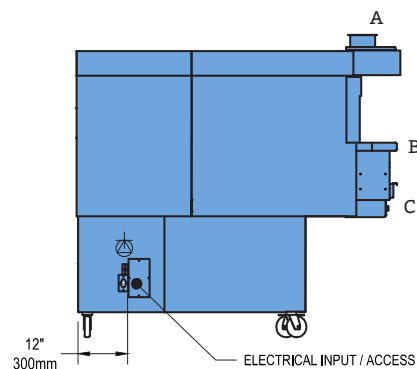
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FRONT VIEW



LEFT SIDE VIEW



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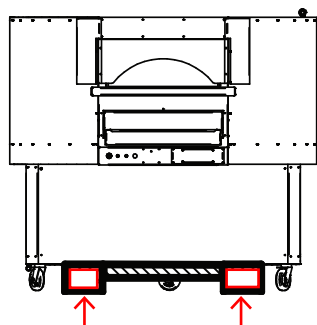
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E-MAIL info@woodstone-corp.com

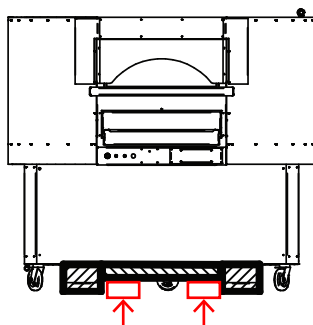
woodstone-corp.com



Cancer and Reproductive Harm - www.P65Warnings.ca.gov



(A) When using a fork lift, insert forks into fork tubes and lift.



(B) When using a pallet jack, insert pallet jack underneath pallet jack tubes and lift.

⚠ WARNING Minimum Required Forklift Capacities

5' FORKS MINIMUM

Model	Lifting from Front or Rear
WS-ERV-71-E	1,600 lbs (726 kg)

USING A FORKLIFT

The Wood Stone OneRev weighs approximately 1,600 lbs. and is top-heavy.

Use a forklift with adequate fork lengths and lifting capacity. Lifting the oven any other way with a forklift may result in damage. Use extreme caution and make sure that the forks extend all the way under the oven. Fork length must be at least 5' long. If it is necessary to approach the oven from the front, be sure the mast does not contact the mantel (shelf).

USING A PALLET JACK

The oven may also be moved with a Pallet Jack by inserting the pallet jack underneath the pallet jack tubes. Once the oven is on a **smooth, flat** floor it can be rolled to its final position. **DO NOT ATTEMPT TO MANUALLY ROLL THE OVEN UP OR DOWN A RAMP OR INCLINE.** Do not position yourself between the moving oven and an immovable object or surface such as a wall or door frame.

DO NOT TURN THE OVEN ON ITS SIDE!

Moving a Wood Stone oven can present interesting challenges to even the most experienced riggers. Make sure to secure the proper equipment and make safety your first priority. Please don't hesitate to call the factory for technical support.

DELIVERY NOTE

The customer will receive an Oven Shipping Notification when the oven leaves the Wood Stone factory. This will include a PRO# and a trucking company contact number. Wood Stone recommends that you confirm the delivery date/time with the trucking company before committing to heavy equipment and/or labor. Our goal is a smooth and safe delivery.



REMOVING FORK TUBES AND PALLET JACK TUBES

BEFORE YOU BEGIN:

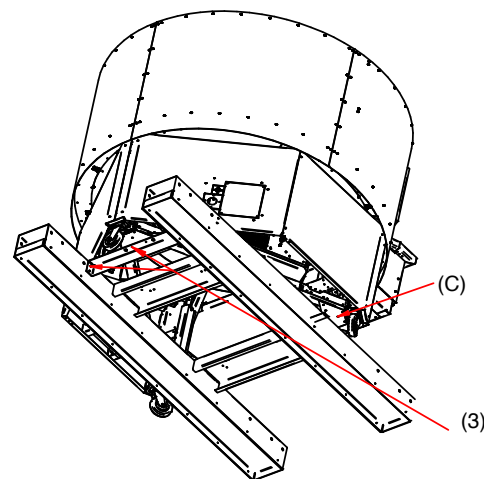
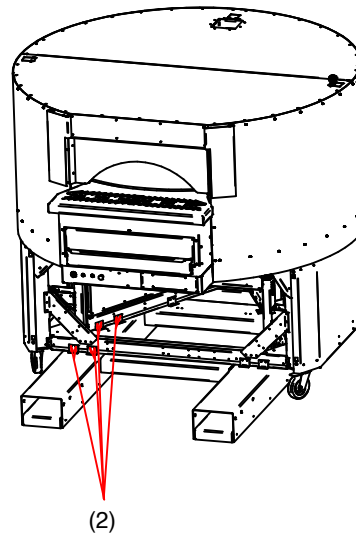
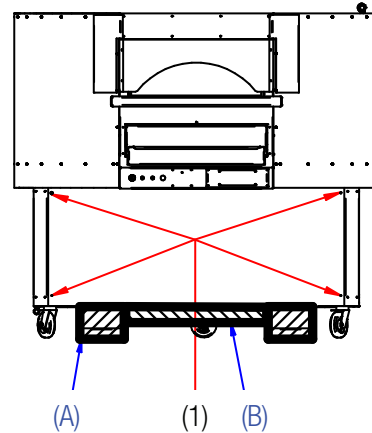
- (A) When using a forklift, insert forks into fork tubes and lift.
- (B) When using a pallet jack, insert the pallet jack underneath the pallet jack tubes and lift.
- (C) Place blocks here to raise the oven at all three castor locations.



WARNING: Never place any part of the body beneath the oven while it is supported on blocks.

STEPS:

- (1) Remove the front panel.
- (2) Use a #2 Phillips head screwdriver to remove the screws holding the fork tubes to the oven frame (both sides).
- (3) Remove sheet metal support by removing the screws and 1/4-20" bolts and nuts (both sides).
- (4) The fork tubes are now separated from the oven.
- (5) Lift the oven (location (A) for forklifts or location (B) for pallet jacks) at least 2" vertically and place blocks (such as one wood 2x4 and two wood 4x4's stacked together) underneath the oven legs at location (C). Lower the oven onto the blocks so the oven sits at least 2" higher. Pull the fork tubes forward to separate them from the oven. Use caution to avoid placing any body part under the oven when it is on the blocks. Raise the oven and remove the blocks. If using a forklift, lift the oven where the fork tubes were. Ensure each fork has two points of contact on the triangle oven base when lifting. Lower the oven down onto the castors.

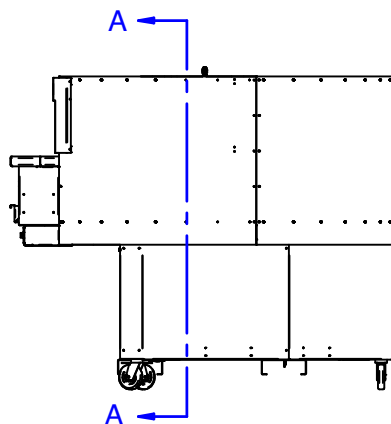




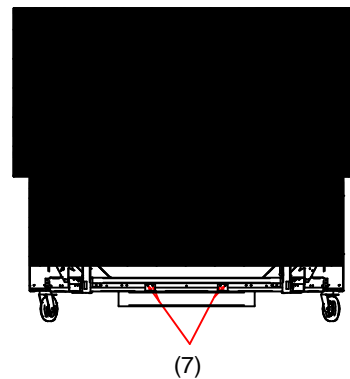
REMOVING FORK TUBES AND PALLET JACK TUBES

(6) Lock the castors and proceed to remove the pallet jack tubes.

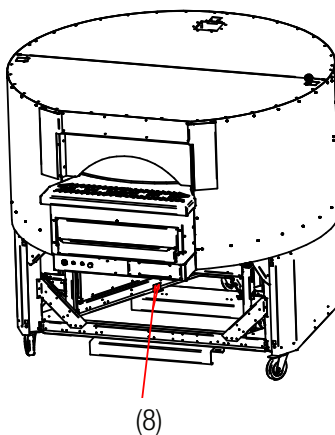
(7) Remove screws.



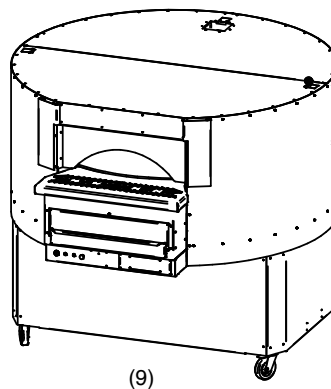
SECTION A-A



(8) Remove screws, both sides.



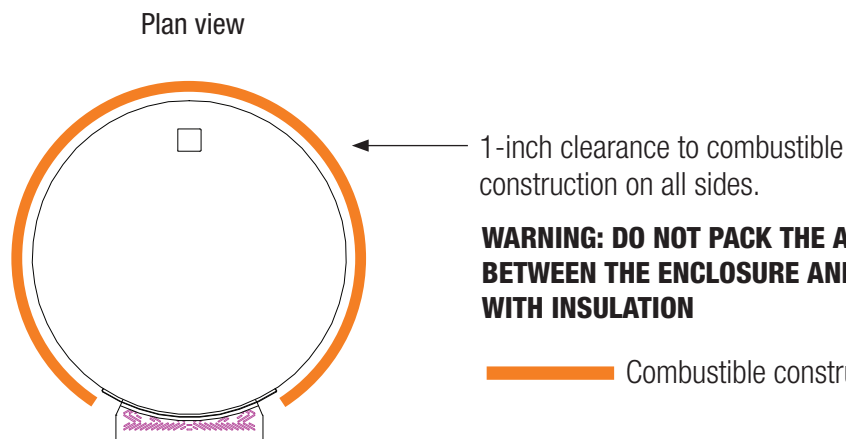
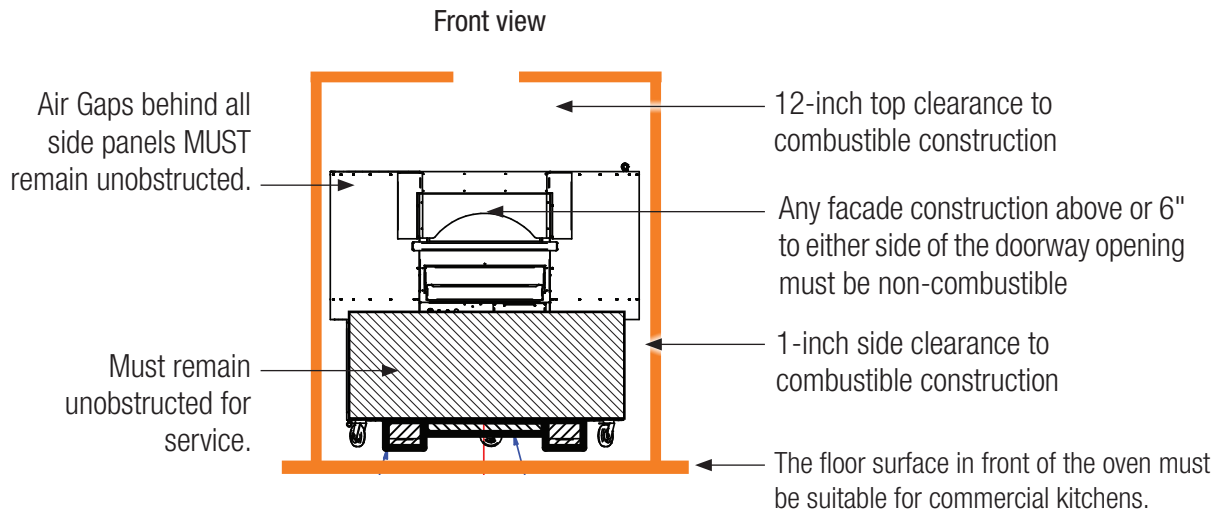
(9) Pull the pallet jack tubes out of the oven. Install the front panel back onto the oven. The oven can now be rolled into position.





WARNING: Do not pack required air space (clearance) with insulation or other materials. When non-combustible building materials contact the body of the oven, the clearances to combustibles are transferred to those non-combustibles.

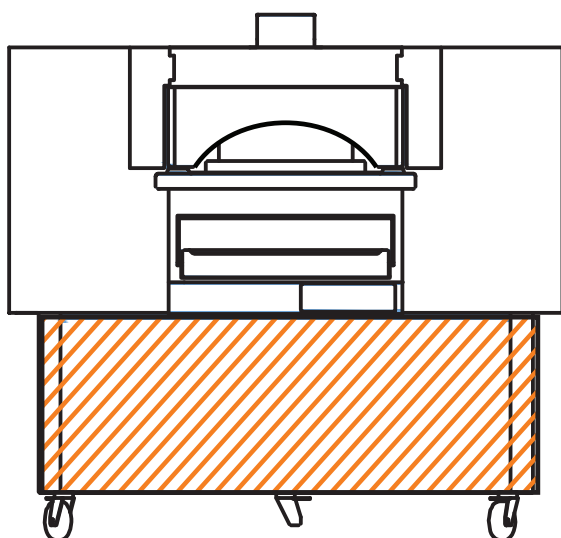
1. The Wood Stone OneRev oven must have a minimum 1 inch clearance to combustibles from all sides, and a 12 inch clearance to combustibles from the top (see figures below). Any construction above and/or 6 inches to either side of the door, must be non-combustible.
2. This oven may be installed on a combustible floor surface. The floor surface in front of the oven must be suitable for commercial kitchens.
3. Any combustibles within 3 feet of the oven doorway should be protected in a manner acceptable to the authority having jurisdiction.



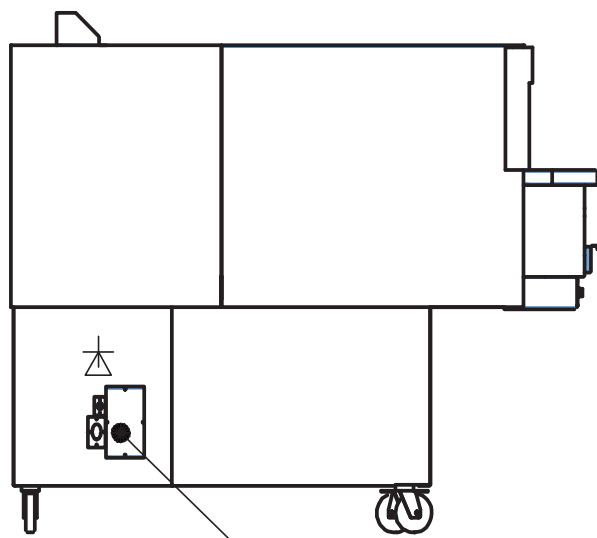


INSTALLATION CLEARANCES OPERATIONAL ACCESS AND SERVICE ACCESS

Front view



Side view



ELECTRICAL INPUT / ACCESS



Area which **MUST** be left accessible for operation and servicing of the oven.

**NOTE**

Wood Stone recommends you submit your venting plans in advance to your local authority for approval. The hood must be installed in accordance with the Hood Manufacturer's instructions, NFPA 96, and any additional relevant local codes. All installations are subject to the approval of the local authority having jurisdiction. Refer to the hood manufacturer's instructions for specifications and exact mounting instructions.

If fire suppression is required by the local jurisdiction, the oven must then be vented with a Type 1 hood.

It is never appropriate to use "B vent" in any part of an exhaust system connected to this oven. The venting system should be inspected and cleaned at least every 3 months or as necessary. Submit your venting plans to your local authorities before proceeding with your installation, as there may be additional requirements in your area.

The oven may be installed beneath a ventilation hood sized to capture exhaust from both the rear flue and the front doorway. Alternatively, an optional eyebrow hood (WS-EV-71-XEB) can be installed to capture exhaust above the doorway while routing the rear flue exhaust into a single 6" O.D.-diameter flue collar. This flue collar may be directly connected to the facility's ducting system.



ELECTRICAL SPECIFICATIONS

WS-ERV-71-E-03: 208VAC

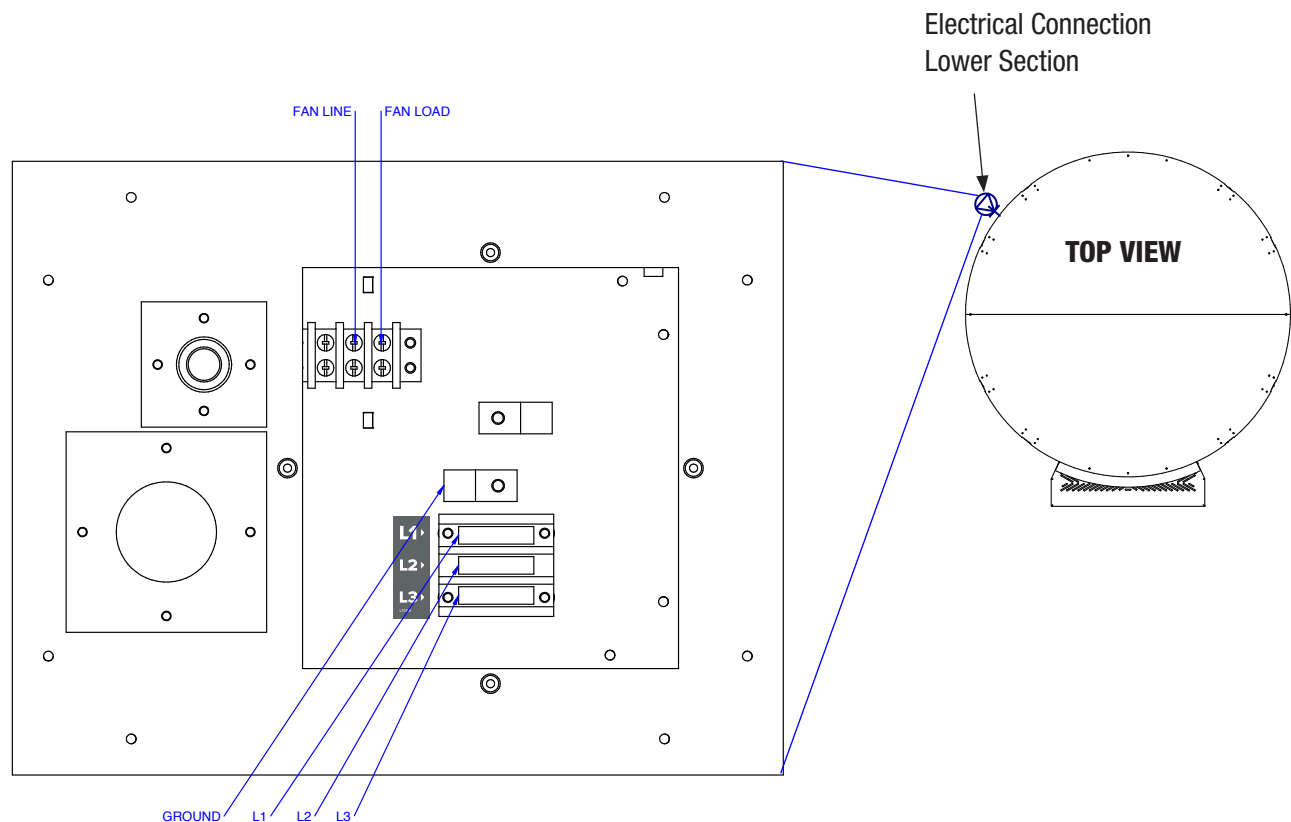
WS-ERV-71-E-04: 240VAC

NOT FOR USE WITH SOLID FUEL.

POWER CONNECTION TO THE OVEN TERMINAL BLOCK

Provide a 3-Phase circuit (75A circuit breaker for 208V, 100A for 240V) to the terminal block, located in the Junction Box located to the rear of the oven. The terminal blocks are labeled L1, L2, L3, Ground, and fan terminal strip.

UTILITY CONNECTIONS

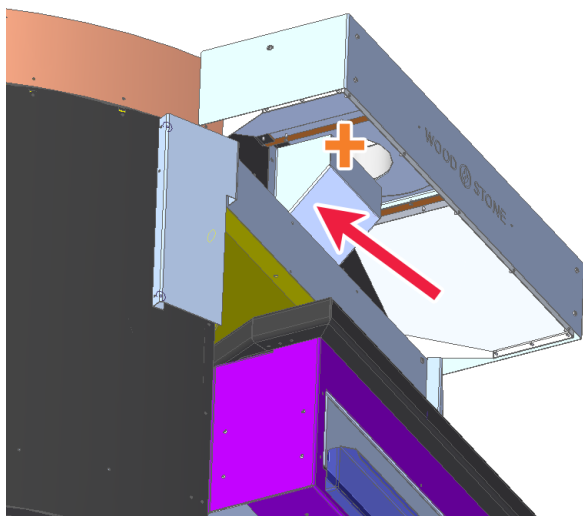


ELECTRICAL CODE LIMITATIONS

Electrical Grounding: This appliance 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 C22.1 as applicable.

**DIRECT CONNECT INSTALLATIONS – SETTING THE EXHAUST FAN SPEED**

Direct connection requires optional Eyebrow Hood (WS-EV-71-XEB). For proper operation of the oven, **proper airflow through the duct system must be maintained.** Remove the 90-degree adapter inside the eyebrow hood (red arrow) and take CFM reading centered in the opening (orange plus sign.) **Required airflow is 250 CFM.**

**SETTING THE FAN SPEED FOR PROPER AIRFLOW**

Airflow should be set by a qualified Air Balance or Ventilation Contractor. For direct connection, adjust accordingly to reach 250 CFM. NOTE: For hood installations, set airflow in accordance with hood manufacturer's data plate and instructions.

AIRFLOW MEASUREMENT

If an airflow measurement is required, this is best measured at the fan outlet by a qualified air balancer or properly equipped HVAC technician. Please contact Wood Stone if there are any questions.

For Hood installations set the airflow in accordance with the specifications on the hood data plate.

Fan speed control, shown in initial 2 o'clock position.



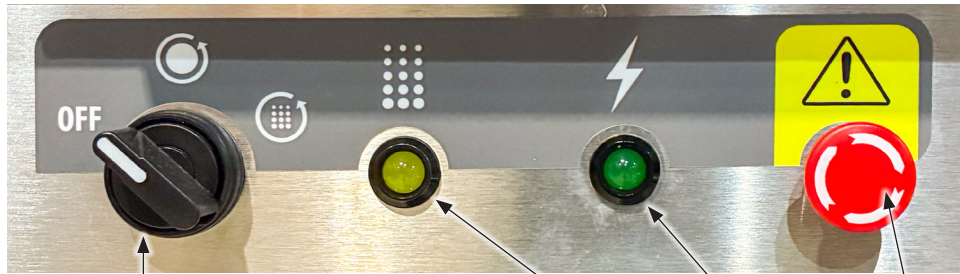
Control shown for optional Exodraft Fan from Wood Stone. For other fans follow the manufacturer's instructions for setting the fan speed.



CONTROL PANELS—FRONT PANEL



Left side Controls



Function Switch

- ON:**  Engages Full Heat, Exhaust Fan** and Deck Rotation.
- ROTATION:**  Engages Deck Rotation & Exhaust Fan only (when interlocked.)
- OFF:** Turns oven **OFF**—All Elements, Deck Rotation and Exhaust Fan (allow 30 minutes in **ROTATION** mode, to avoid damage to oven, before turning to **OFF**. Exhaust fan will run for a set time after function switch is set to the **OFF** position).

Heating Indicator Light

Indicates the heating elements are heating to their set point.

Main Power Indicator Light

Indicates the oven is receiving external electrical power.

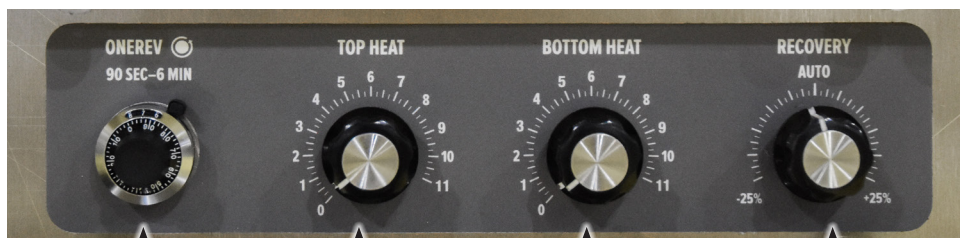
Emergency Stop Button

In the event of an emergency, push button to turn off Rotating Deck and Elements.
To reset: Turn the knob clockwise & it will pop out automatically.

Steady flashing:

Call Wood Stone Service Department.

Right side (covered) Controls



Rotation Speed Dial

Rotate the dial to increase or decrease rotation speed. Ranges from 90 seconds to 6 minutes per rotation. See Cooking Deck Rotation SPEED Table on page 21. (Allow 1-1/4 turns to transition to new speed)

Top Heat Dial

Controls the Top elements, which help set the oven chamber temperature. Turn the dial clockwise to increase the set point.

Bottom Heat Dial

Controls the Bottom elements, beneath the deck for the "on demand" heat system. Turn the dial clockwise to increase the set point.

Hearth Recovery Dial

A fine-tuning knob to control frequency of Bottom Heat application. In most situations, this knob will work best in the Auto position.

**Note: Exhaust fan refers to external exhaust fan for ventilation system, it is not part of the oven.



DAILY OVEN OPERATION

IMPORTANT: If at any time you feel that the elements are not operating properly, turn the oven off and call WOOD STONE for service instructions. Before servicing, disconnect the electrical supply. In the event of a power failure, no attempt should be made to operate the oven. If the rotation of the deck stops for any reason, the control will turn the elements off.

TURNING ON THE OVEN (BEGINNING OF DAY)

- Turn the Function Switch to the **ON**  position to start the oven.
- The heating element Indicator Light will illuminate.
 - **Main Power Indicator Light (green):** Lit when the selector switch is turned to the **ON** or **ROTATION** position.
 - **Heating Indicator Light (yellow):** Lit when the oven is heating, but still below the selected Temperature Set Point.

TURNING OFF THE OVEN (END OF DAY)

- Turn the Function Switch counterclockwise to the **ROTATION**  position and allow the exhaust fan to run and the deck to rotate (elements off) for a **minimum of 30 minutes** before completely turning **OFF**. **Ignoring this step may cause damage to the moving parts of the oven.**
- Turn the Function Switch counterclockwise to the **OFF** position to turn the oven off completely after the minimum 30 minute cool down period.

CAUTION: TO AVOID INJURY, CARE SHOULD BE TAKEN WHEN WORKING NEAR THE DOOR OPENING, WHERE THE ROTATING DECK AND DOOR OPENING INTERSECT.

Rotation – Pinch Point



Intersection of door opening
and rotating deck.

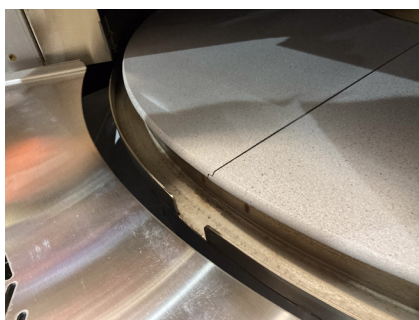
**DAILY CLEANING****OVEN DECK**

The oven deck should be swept after the oven is heated and before beginning to cook. Wood Stone recommends using a natural fiber brush to remove debris that accumulates during cooking. Always brush toward the doorway and into the debris mantel. Never brush debris off the sides of the rotating deck or toward the center. For deeper cleaning, use a brass bristled brush (available for purchase on our website) to loosen debris, then sweep out with the natural fiber brush as described above.

Wood Stone offers an assortment of oven brushes available on our website (woodstone-corp.com), or through your dealer.

DEBRIS MANTEL

When the oven is cool lift the mantel up and pull it toward yourself (it will move about 2.5 inches and then stop.) Set the Function Switch to the middle position so the floor is rotating. Use a soft-bristled brush to sweep debris through the opening in the debris trough and into the space below the mantel. Brush or wipe the space below the mantel when needed. **CAUTION: AVOID PINCH POINTS WHERE THE ROTATING DECK IS NEAR THE DOOR OPENING.**



TAKE CARE NOT TO BRUSH DEBRIS INTO THE HEATING ELEMENTS. DO NOT POUR OR SPRAY LIQUIDS ONTO THE OVEN DECK OR INTO THE OVEN INTERIOR AS THIS CAN DAMAGE THE SURFACE AND WILL VOID THE WARRANTY.

NEVER USE ANY TYPE OF CLEANER OR CHEMICAL ON THE OVEN DECK OR INTERIOR. THIS WILL VOID THE WARRANTY.

OVEN EXTERIOR (DOORWAY AND MANTEL)

All exterior stainless steel and powder-coated surfaces should be cleaned as necessary using a mild detergent, hot water and a soft cloth or sponge. Stubborn residues may be removed using a non-metallic scouring pad. When scouring stainless steel surfaces, scrub with the grain of the metal to prevent scratching.



Turn the Function Switch clockwise to
"ON"  position.

Deck starts to rotate.

Electric Power is switched ON.

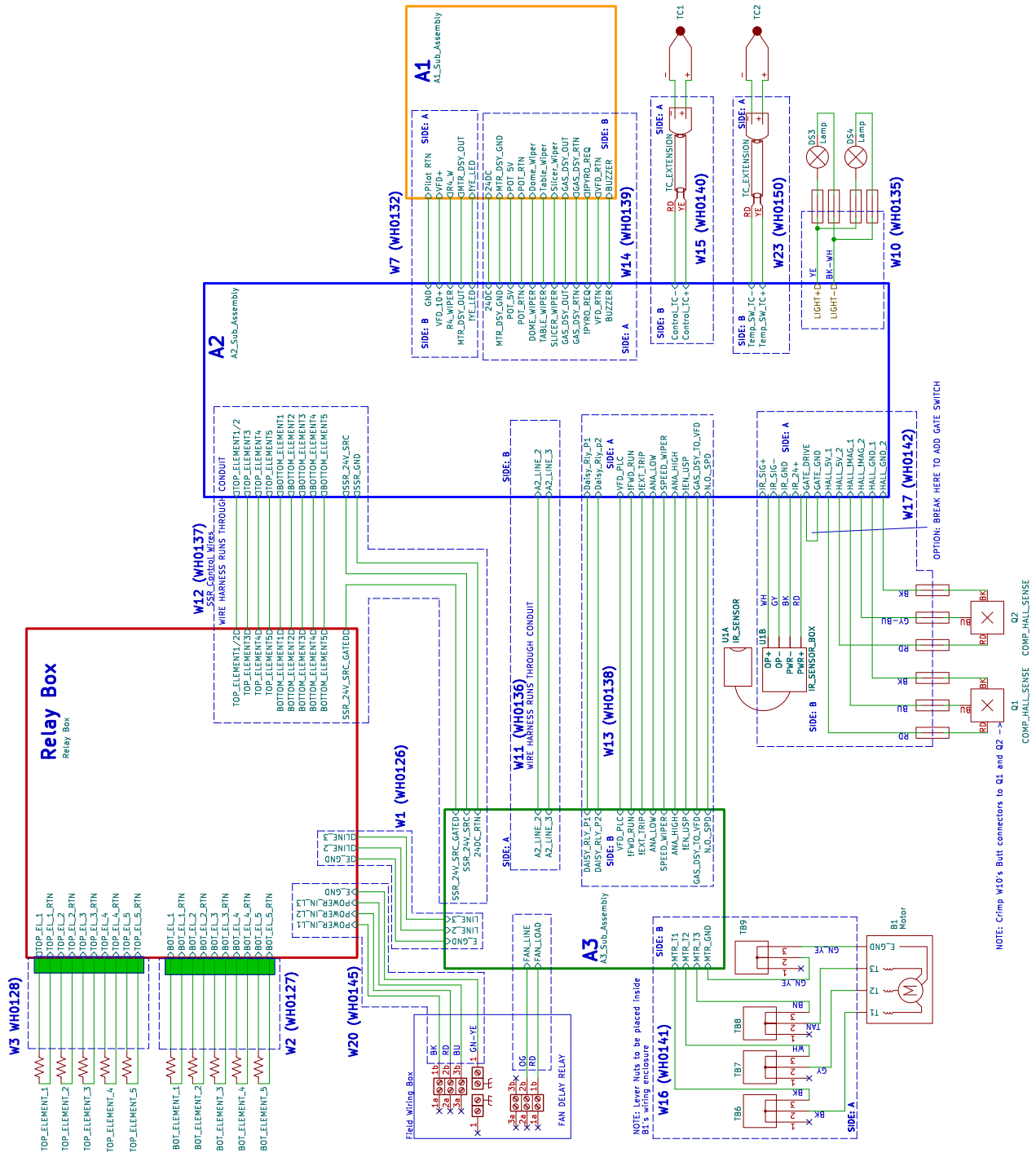
The heating elements will remain at 50% until the
Oven Temperature reaches 175 °F (80 °C), then is
turned all the way up.

When the Top Heat reaches 330 °F (166 °C), the
heating elements will operate as required to
maintain the Bottom Heat Set Point.

When the Top Heat is approaching its Set Point,
the heating elements will begin to modulate to
maintain the correct temperature. At this point,
the Heating Indicator Light will turn off.

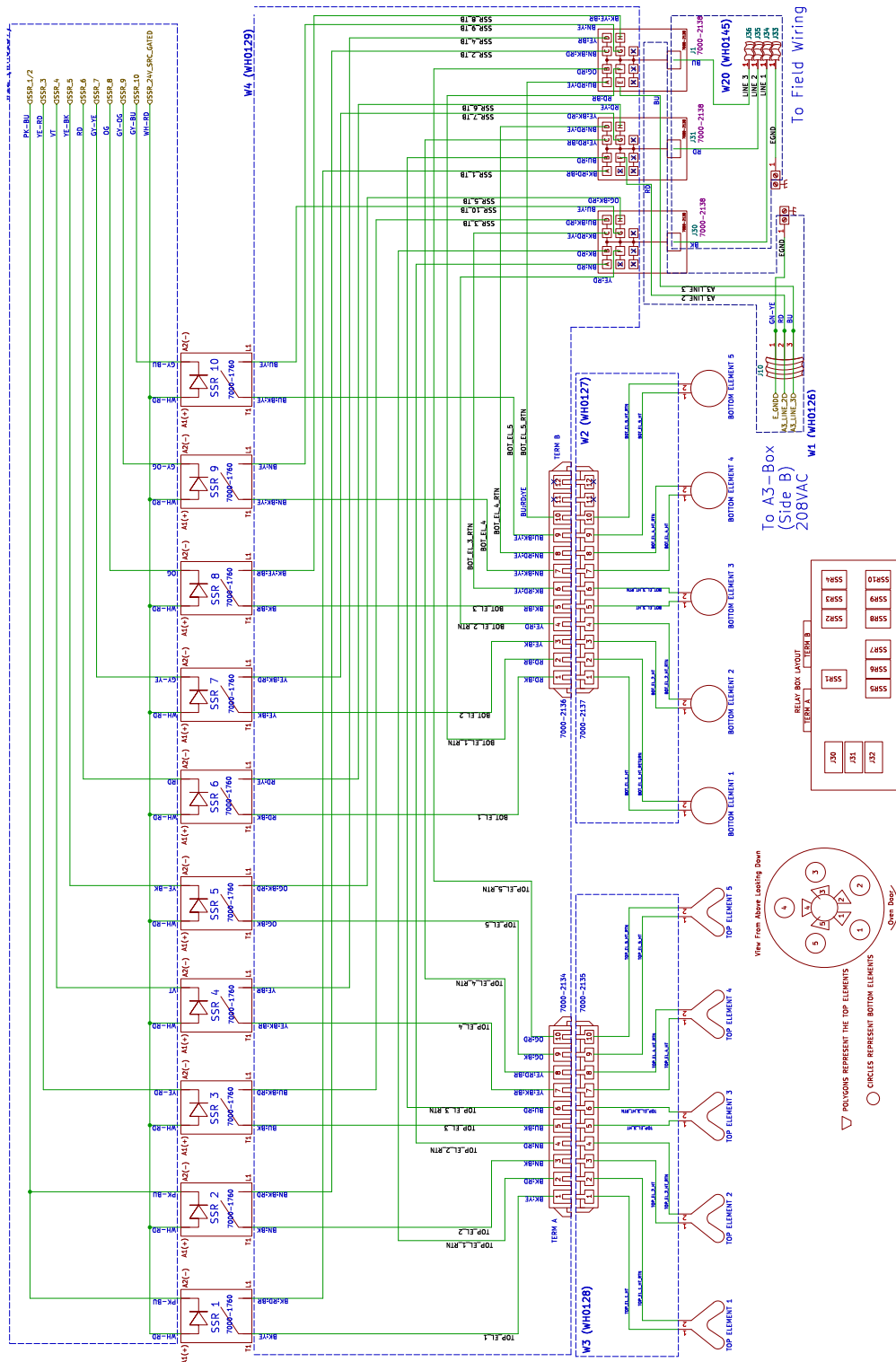


TOP LEVEL WIRE DIAGRAM



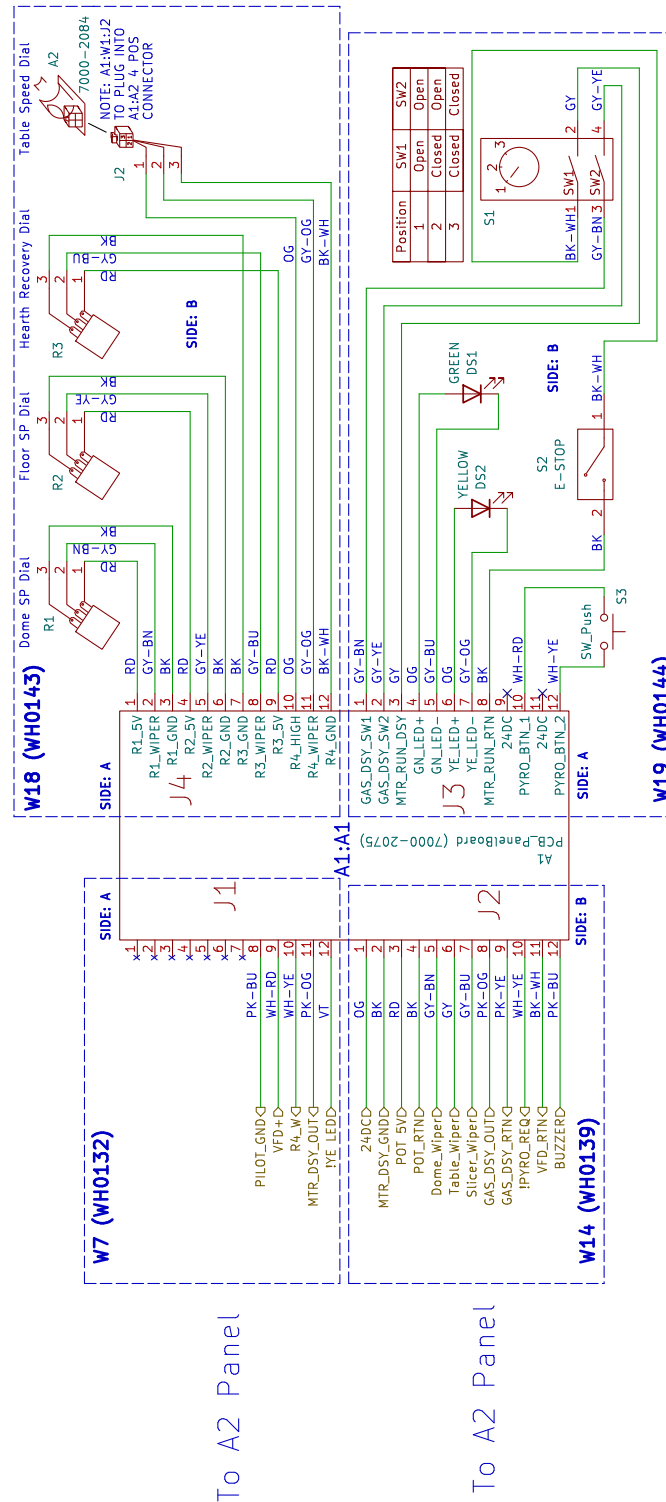


RELAY BOX WIRING



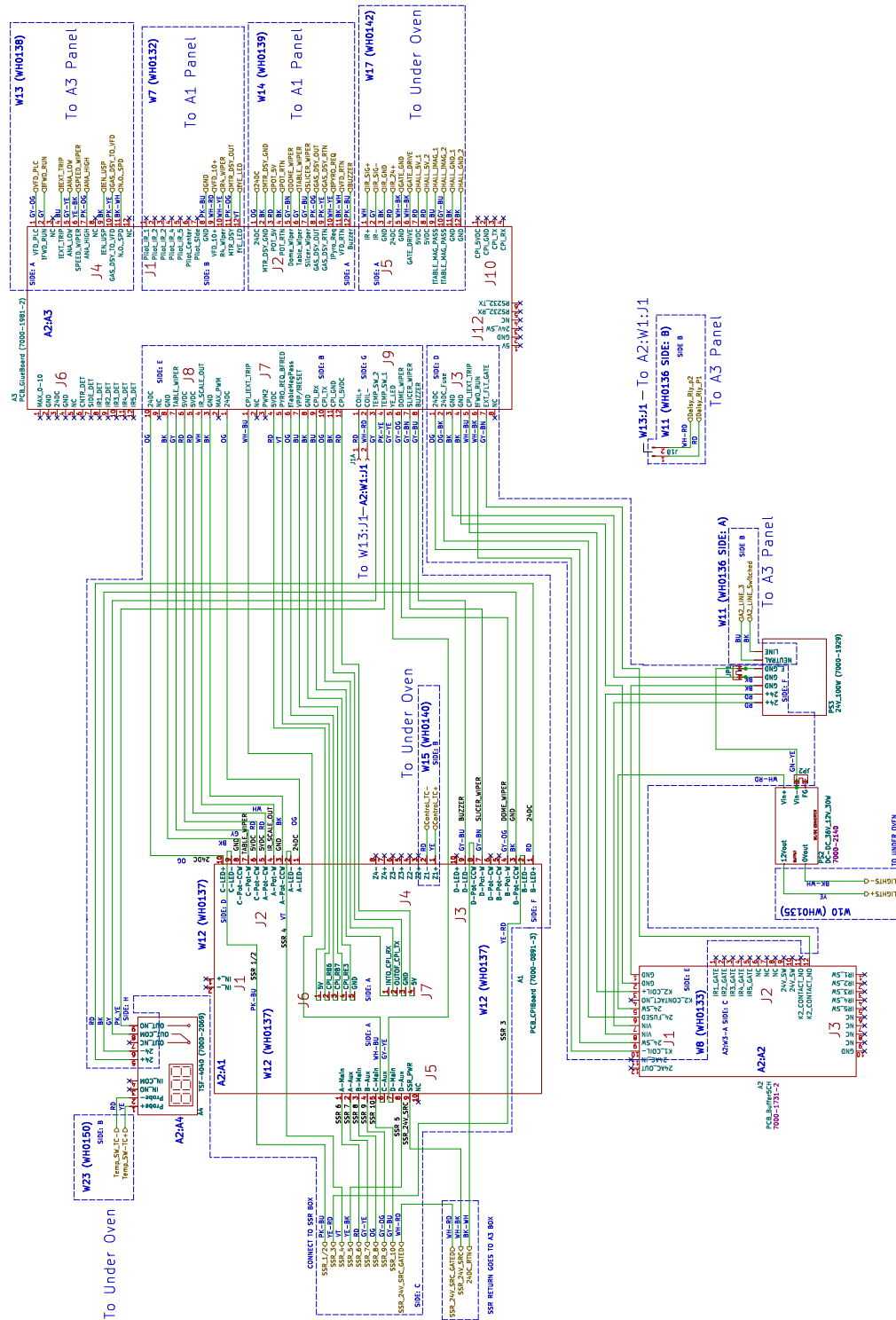


A1 SUB ASSEMBLY



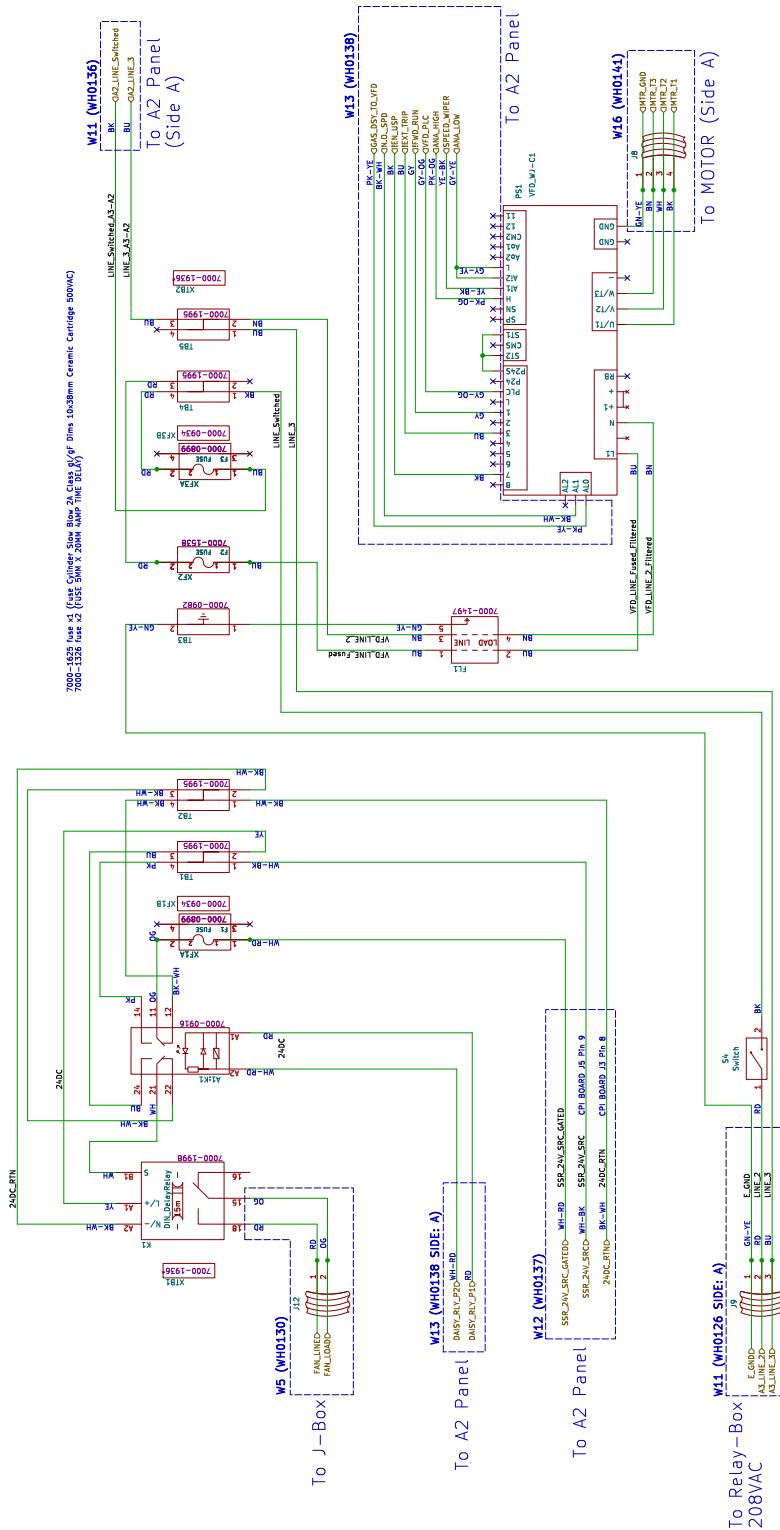


A2 PANEL WIRING DIAGRAM





A3 SUB ASSEMBLY



**ALL WARRANTY SERVICE MUST BE PRE-APPROVED BY WOOD STONE
PLEASE CONTACT THE FACTORY FIRST**

Please call 1.800.988.8103 or 1.360.650.1111 seven days a week. Our normal service hours are 8am to 5pm Pacific time Monday through Friday. If calling during non-business hours, follow the recorded instructions for emergency service and a Wood Stone technician will get back to you promptly. Wood Stone warrants its equipment to the original purchaser against defects in material or manufacture for a period of one year from the original date of purchase subject to the following exclusions and limitations.

EXCLUSIONS

The warranties provided by Wood Stone do not apply in the following instances:

1. In the event that the equipment is improperly installed. Proper installation is the responsibility of the installer; proper installation procedures are prescribed by the Wood Stone installation manual.
2. In the event the equipment is improperly maintained. Proper maintenance is the responsibility of the user; proper maintenance procedures are prescribed in the Wood Stone installation manual.
3. In the event that the failure or malfunction of the appliance or any part thereof is caused by abnormal use or is otherwise not attributable to defect in material or manufacture.
4. In the event that the appliance, by whatever cause, has been materially altered from the condition in which it left the factory.
5. In the event that the rating plate has been removed, altered or obliterated.
6. On parts that would be normally worn or replaced under normal conditions.
7. Normal cracking due to expansion and contraction stress relief in the ceramic.
- 8. In the event that any type of solid fuel has been burned in the equipment.**
9. Damage resulting from the use of chemical cleaning products in the oven, as well as any damage from liquids or chemicals being poured or sprayed into the oven.

If any oral statements have been made regarding this appliance, such statements do not constitute warranties and are not part of the contract of sale. This Limited Warranty constitutes the complete, final and exclusive statement with regard to warranties.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER WRITTEN, ORAL OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE OR WARRANTY AGAINST LATENT DEFECTS

LIMITATIONS OF LIABILITY

In the event of warranty claim or otherwise, the sole obligation of Wood Stone shall be the repair and/or replacement, at the option of Wood Stone, of the appliance or component or part thereof. Such repair or replacement shall be at the expense of Wood Stone with the exception of travel over 100 miles or two hours, overtime, and holiday charges which shall be at the expense of the purchaser. Any repair or replacement under this warranty does not constitute an extension of the original warranty for any period of the appliance or for any component or part thereof. Parts to be replaced under this warranty will be repaired or replaced at the option of Wood Stone with new or functionally operative parts. The liability of Wood Stone on any claim of any kind, including claims based on warranty, expressed or implied, contract, negligence, strict liability or any other theories shall be solely and exclusively the repair or replacement of the product as stated herein, and such liability shall not include, and purchaser specifically renounces any rights to recover, special, incidental, consequential or other damages of any kind whatsoever, including, but not limited to, injuries to persons or damage to property, loss of profits or anticipated profits, or loss of use of the product.

TO SECURE WARRANTY SERVICE

If you claim a defect covered by this Limited Warranty, direct your claim to:

Wood Stone Corporation 1801 W. Bakerview Rd. Bellingham, WA 98226 USA Attn: Global Service Manager