



Cook & Hold Ovens Smoker Ovens Deluxe Control

300-TH	750-SK
500-TH	1000-SK
750-TH	1200-SK
1000-TH	1750-SK
1200-TH	
1750-TH	





MN-46712-EN

REV.03 04/22

Manufacturer's Information

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Trademarks	All trademarks referenced in this documentation are the property of their respective owners.
Manufacturer	Alto-Shaam, Inc.
	P.O. Box 450
	W164 N9221 Water Street
	Menomonee Falls, WI 53052
Original instructions	The content in this manual is written in American English.

Alto-Shaam 24/7 Emergency Repair Service

Call	Call 800-558-8744 to reach our 24-hour emergency service call center for immediate access to local authorized service agencies outside standard business hours. The emergency service access is provided exclusively for Alto-Shaam equipment and is available throughout the United States through Alto-Shaam's toll free number.
Availability	Emergency service access is available seven days a week, including holidays.

FOREWORD



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The Meaning of Signal Words

This manual contains signal words where needed. These signal words must be obeyed to reduce the risk of death, personal injury, or equipment damage. The meaning of these signal words is explained below.



DANGER

Danger indicates a hazardous situation which, if not avoided, will result in serious injury or death.



WARNING

Warning indicates a hazardous situation which, if not avoided, could result in serious injury or death.



CAUTION

Caution indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



Notice indicates a situation which, if not avoided, could result in property damage.



NOTE: Note indicates additional information that is important to a concept or procedure.



Safety Precautions

Before you begin	Read and understand all instructions in this manual.					
Electrical precautions	Obey these electrical precautions when using the appliance:					
	Connect the appliance to a properly grounded outlet. Do not use the appliance if it is not properly grounded. Consult an electrician if there is any doubt that the outlet used is properly grounded.					
	Keep the cord away from hot surfaces.					
	Do not attempt to service the appliance or its cord and plug.					
	Do not operate the appliance if it has a damaged cord or plug.					
	Do not immerse the cord or plug in water.					
	Do not let the cord hang over the edge of a table or counter.					
	Do not use an extension cord.					
Usage precautions	Obey these usage precautions when using the appliance:					
	Only use this appliance for its intended use of heating or cooking.					
	 Always keep liquids, or foods that can become liquid when heated, level and at or below eye level where they can be seen. 					
	 Always open the appliance door very slowly. Escaping hot vapors or steam can cause serious injury. 					
	Use utensils and protective clothing such as dry oven mitts when loading and unloading the appliance.					
	Use caution when using the appliance. Floors adjacent to the appliance may become slippery.					
	Do not cover or block any of the openings of this appliance.					
	Do not cover shelves or any other part of this appliance with metal foil.					
	Do not use this appliance near water such as a sink, in a wet location, near a swimming pool, or similar locations.					
Maintenance	Obey these maintenance precautions when maintaining the appliance:					
precautions	 Obey precautions in the manual, on tags, and on labels attached to or shipped with the appliance. 					
	Only clean the appliance when the oven is disconnected from the power source.					
	Do not store the appliance outdoors.					
	Do not clean the appliance with metal scouring pads.					
	Do not use corrosive chemicals when cleaning the appliance.					
	Do not use a hose or water jet to clean the appliance.					
	Do not use the appliance cavity for storage.					
	Do not leave flammable materials, cooking utensils, or food inside the appliance when it is not in use.					

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Operator training	All personnel using the appliance must have proper operator training. Before using the appliance:					
	Read and understand the operating instructions contained in all the documentation delivered with the appliance.					
	Know the location and proper use of all controls.					
	 Keep this manual and all supplied instructions, diagrams, schematics, parts lists, notices, and labels with the appliance if the appliance is sold or moved to another location. 					
	Contact Alto-Shaam for additional training if needed.					
Operator qualifications	Only trained personnel with the following operator qualifications are permitted to use the appliance:					
	Have received proper instruction on how to use the appliance.					
	 Have demonstrated their ability with commercial kitchens and commercial appliances. 					
	The appliance must not be used by:					
	Persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision concerning use of the appliance by person responsible for their safety.					
	People impaired by drugs or alcohol.					
	Children should be supervised to ensure that they do not play with the appliance.					
	Children shall neither clean nor maintain the appliance.					
Condition of	Only use the appliance when:					
appliance	All controls operate correctly.					
	The appliance is installed correctly.					
	The appliance is clean.					
	The appliance labels are legible.					
Servicing the appliance	Only trained personnel are permitted to service or repair the appliance. Repairs that are not performed by an authorized service partner or trained technician will void the warranty and relieve Alto-Shaam of all liability.					
	To prevent serious injury, death or property damage, have the appliance inspected and serviced at least every twelve (12) months by an authorized service partner or trained technician.					
	 Contact Alto-Shaam for the authorized service partner in your area. 					

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SAFETY

Personal Protective Equipment (PPE)	Wear the following Personal Protective Equipment (PPE) while cleaning the appliance:					
	Protective gloves					
	Protective clothing					
	Eye protection					
	Face protection					
Use of restraining devices	A restraining device (tether) must be installed to any appliance that is hard-wired and mounted on casters. The tether must:					
	Be secured to the building's structure.					
	 Limit the movement of the appliance so that no stress is transmitted to the electrical conduit. 					
	A connection point for the tether is located on the back of the appliance.					
	A tether is not supplied by nor available from the manufacturer.					
Service Technician Training	Only trained personnel are permitted to service or repair the appliance. Service technicians must be knowledgeable in current codes and standards as stated by the appropriate agencies, such as:					
	The National Fire Protection Association (NFPA)					
	 National Electrical Code (NEC) 					
	The Service Technician's employer					



How to Turn On and Turn Off the Oven

Before you begin	The oven must be connected to electric power.								
Turning on the oven	To turn on the oven , do the following.								
	Step Action								
	1.	Set the power switch ① to the ON position (300-TH only). Touch and hold the ON/OFF button ② for two (2) seconds.							
		U U U U U U U U U U U U U U U U U U U							
		The oven is now on.							
Turning off the oven	2.	To turn off the oven, do the following.							
		Touch and hold the ON/OFF button for 5 seconds. The Shut Down Options screen displays.							
		Shut down options Image: Standby Ima							
	3.	Choose the desired shut-down option. On 300-TH ovens, set the power switch to the OFF position.							
Result	The ove	n is now off.							



DPERATION

How to View and Set up WiFi Connection

Before you begin

The facility must have WiFi.

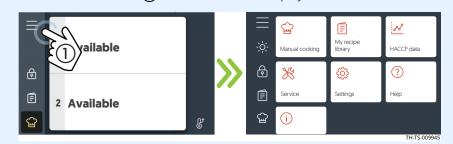
Do not connect to a guest network.

Procedure

To set up WiFi, do the following.

Step Action

1. **Touch** the menu icon ①. The menu screen displays.



2. **Touch** the settings icon **(2)**. The general settings screen displays.

\rightarrow	General Settings	Ξ		~	Ē	ଳ	\equiv
Favorite recipe >	Home Screen	÷ķ:		HACCP data	My recipe library	Manual cooking	-`Ċ҉-
Favorites >	Recipe home group	⋳	>>	?	\$	*	¢
English >	Language	Ē	//	Help	Settings	Service	Ē
UTC+00:00 >	Timezone				- {2	(i)]]
10/22/19 >	Date	ŝ			\sim	\bigcirc	

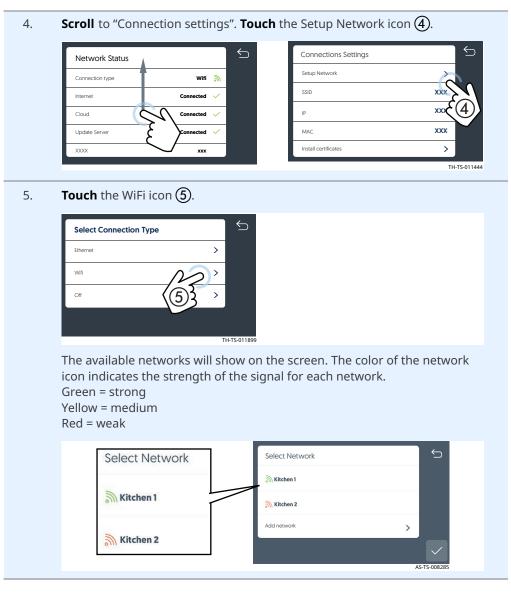
3. **Touch** the WiFi icon **③**. The Network Status screen displays.

	General Settings		5	Network Status		5
÷ċ:-	Startup Screen	Favorite recipe >		Connection type	Miłi 测	
⋳	Recipe home group	Favorites >		Internet	Connected 🗸	
	Language	English >		Cloud	Connected 🗸	
Ē	Timezone	(a)		Update Server	Connected 🗸	
ŵ	Date	9/30/19 >		XXXX	XXX	
					A	S-TS-0093

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6.	If the network is not displayed, touch the "Add network" icon (6).						
	Select Network	Select Network	÷				
	Kitchen 1	Kitchen 1	(A)				
	Kitchen 2	Add network					
			TH-TS-01	11446			
	Enter the SSID using the keypad.	Then, touch the	arrow key.				
	Enter the security type. Then, tou	i ch the check ma	rk.				
	Enter the password using the keypad. Then, touch the arrow key.						
Touch the check mark when finished.							

Result

The procedure is now complete.



How to Set up an Ethernet Connection

Before you begin

The facility must have an Ethernet port.

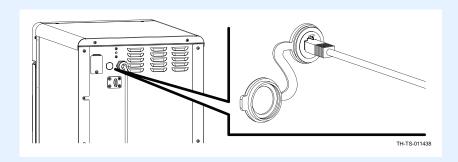
You will need an Ethernet cable.

Procedure

To set up an Ethernet connection, do the following.

Step Action

1. **Plug** the Ethernet cord into the Ethernet port on the oven and the wall outlet.



2. **Touch** the menu icon **()**. The menu screen displays.



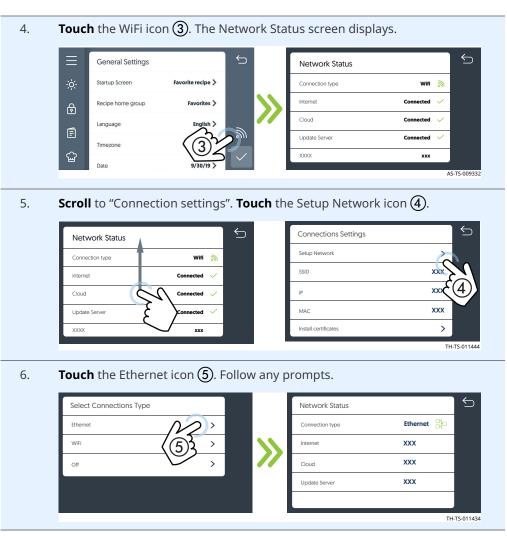
3. **Touch** the settings icon (2). The general settings screen displays.



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The Ethernet connection is now set up.



How to Update Software with a USB Drive

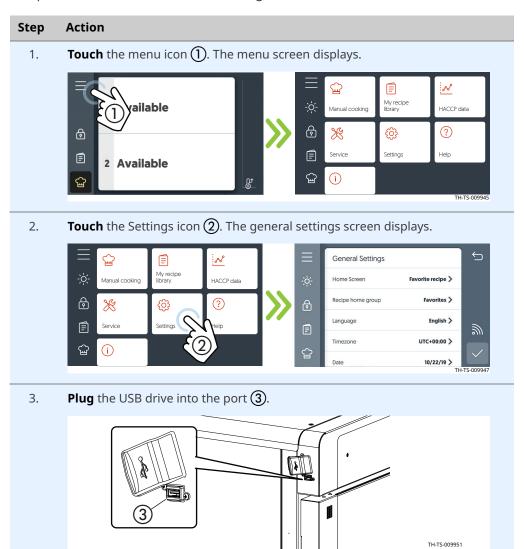
Before you begin

You will need a USB drive with the updated software. To download the most up to date oven software and register for email notifications when new software versions are released, please visit <u>https://www.alto-shaam.com/en/customersupport/software-downloads.</u>

Do not remove the USB drive during the update process.

Procedure

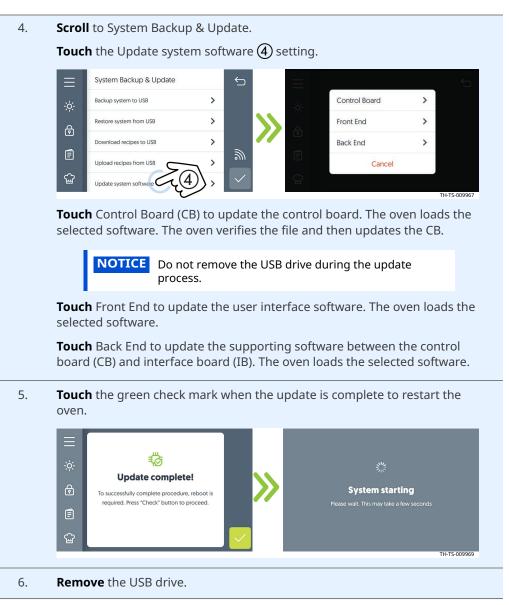
To update the software, do the following.



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Result

The software has now been updated.

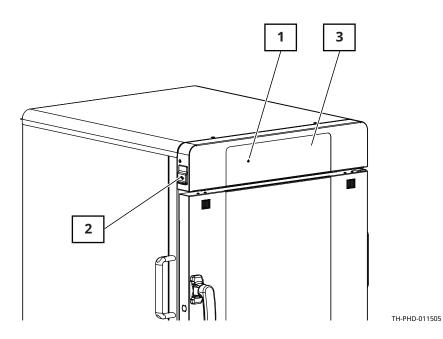


Component Identification





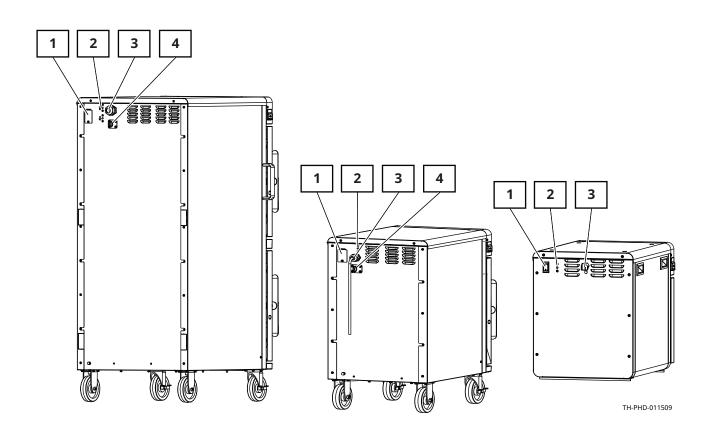
Front Panel Identification



Ref.Description1ON/OFF button2USB port3Control panel display

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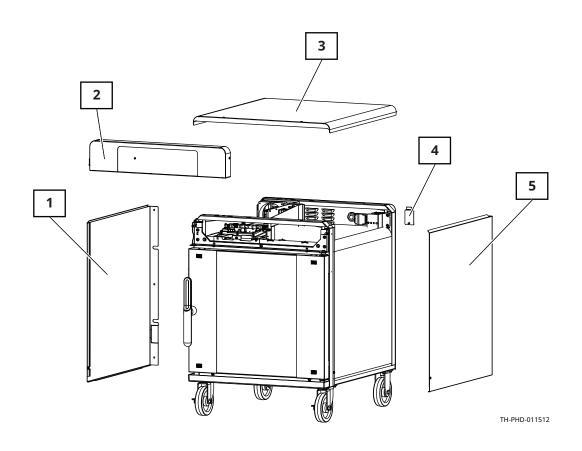
Back Panel Identification



Ref.	Description
1	Circuit breakers
	ON/OFF switch (TH-300 only)
2	High limit(s)
3	Electrical supply
4	Tether ring



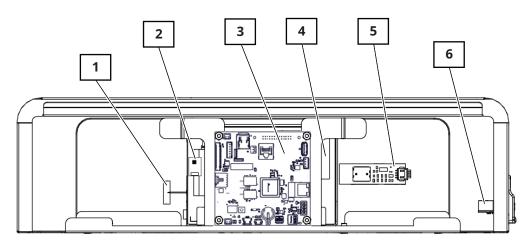
Component Access Panels Identification



Ref.	Description	Provides access to
1	Left side panel	Door switch (right hand hinge door) Heating element terminal block (500-TH)
2	Control panel	Interface board
3	Top service panel	Electrical components
4	Circuit breaker access panel	Circuit breakers (500-TH and larger)
5	Right side panel	Door switch (left hand hinge door) Heating element terminal blocks (all except the 300-TH)



Control Panel

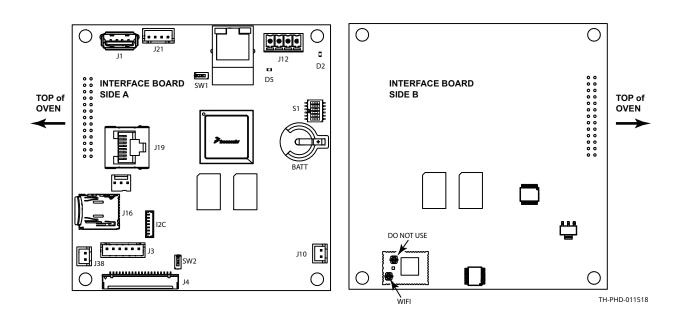


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Ref.	Description
1	WIFI antenna (Not serviceable)
2	Capacitive touch controller board (Not serviceable)
3	Interface board
4	Liquid Crystal Display (LCD) (Not serviceable)
5	ON/OFF board (Not serviceable)
6	USB port

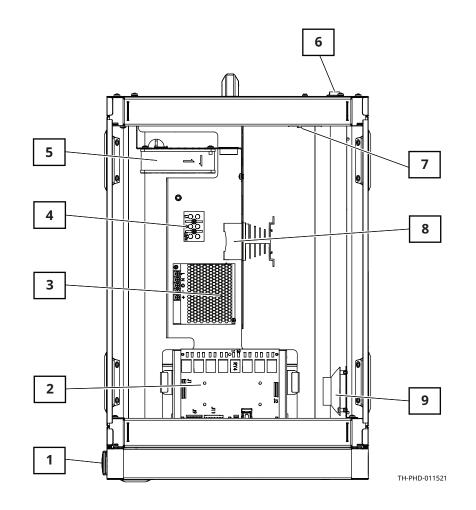


Interface Board



Ref.	Description
BATT	Clock battery
D2	5V IN
D5	12V IN
I2C	Capacitive touch cable
J1	USB connector
J3	Display back light
J4	LCD interface
J10	Speaker
J12	12 VDC power
J16	8 GB micro SD card
J19	Communication to control board
J21	ON/OFF board
J38	Speaker
S1	DIP switches (#4 on)
SW1	DIP switch (off)
SW2	DIP switch (off)
WIFI	WIFI antenna (conductor closest to the edge of the board)

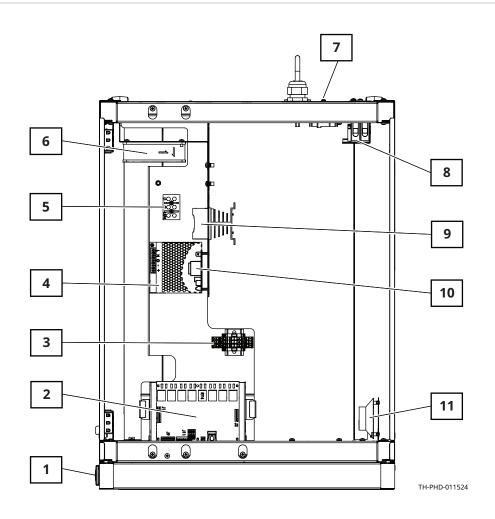
300-TH—Electrical Component Identification



Ref.	Description	Ref.	Description
1	USB port	6	ON/OFF switch
2	Control board	7	High limit switch
3	12VDC power supply	8	Solid State Relay (SSR)
4	Terminal blocks (L1, GND, L2/N)	9	Speaker
5	Cooling fan	—	—



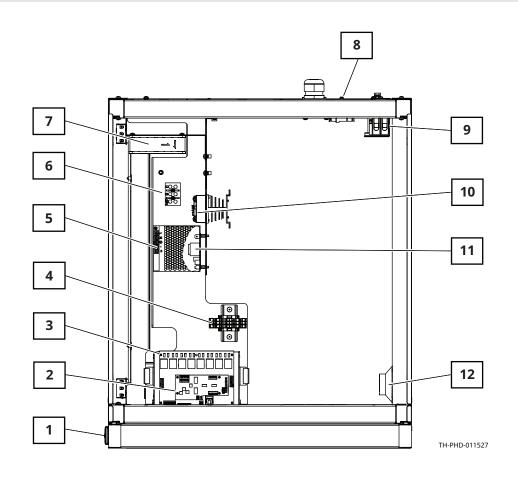
500-TH/SK, 750-TH/SK, 1000-TH/SK—Electrical Component Identification



Ref.	Description	Ref.	Description
1	USB port	7	High limit switch
2	Control board	8	Circuit breakers
3	Terminal blocks	9	Solid State Relay (SSR)
4	12VDC power supply	10	Voltage monitor
5	Terminal blocks (L1, GND, L2/N)	11	Speaker
6	Cooling fan	_	-



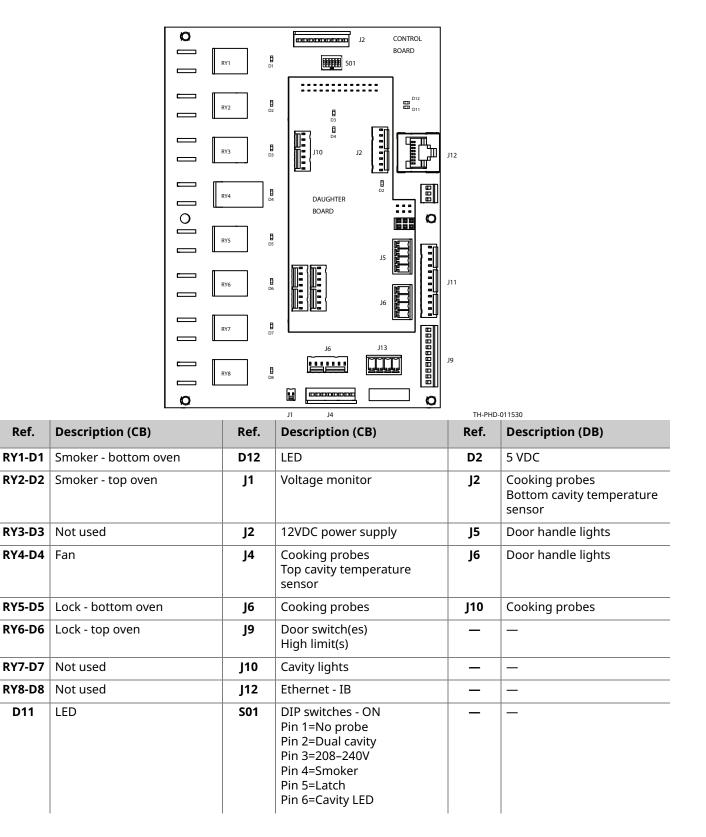
1250-TH/SK, 1750-TH/SK—Electrical Component Identification



Ref.	Description	Ref.	Description
1	USB port	7	Cooling fan
2	Daughter board	8	High limit switch(es)
3	Control board	9	Circuit breakers
4	Terminal blocks	10	Solid State Relay (SSR)
5	12VDC power supply	11	Voltage monitor
6	Terminal blocks (L1, GND, L2/N)	12	Speaker

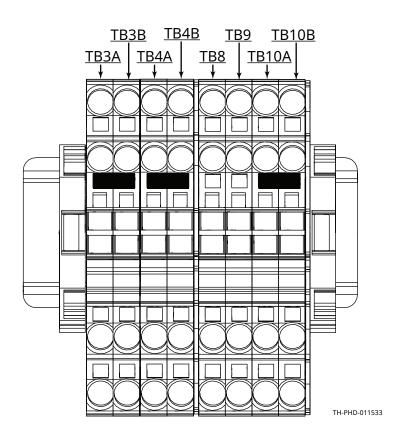


Control Board (CB) and Daughter Board (DB)



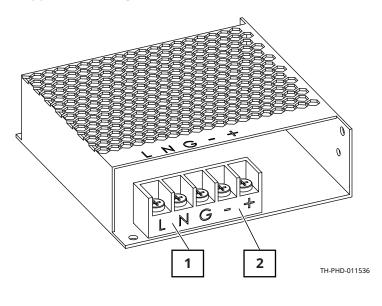


Terminal Blocks



Ref.	Description	Model
ТВЗА	L1	750, 1000, 1200, 1750
ТВЗВ	Smoker option	1200, 1750
TB4A	L2/N	750, 1000, 1200, 1750
TB4B	Smoker option	1200, 1750
TB8	DC - Lights, top cavity	1200
TB9	DC - Lights, bottom cavity	1200
TB10A	DC + Lights	1000, 1200, 1750
TB10B	DC + Lights	1200

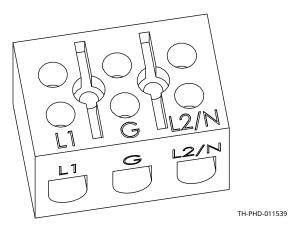
12VDC Power Supply



Supplies DC voltage to the control board and the ON/OFF switch.

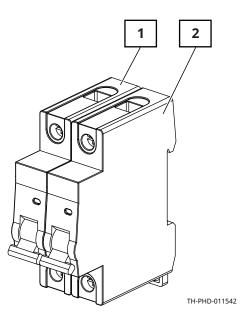
Ref.	Description
1	120–240VAC terminals
2	12VDC terminals

Terminal Blocks (L1, GND, L2/N)



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Circuit Breakers



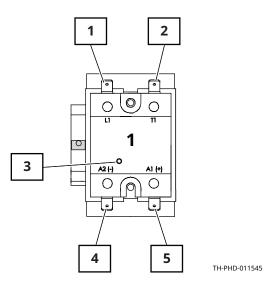
Ref.	Description
1	Circuit breaker L1
2	Circuit breaker L2/N



Solid State Relay (SSR)

Single cavity

Heater element control.



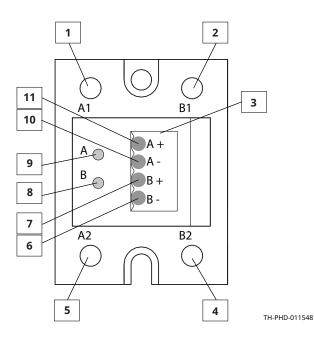
Ref.	Description
1	L1 terminal, AC line voltage into the SSR
2	T1 terminal, AC load voltage to the heating element
3	Call for heat indicator light
4	A2 (-) terminal, DC control voltage from the control board to the SSR
5	A2 (+) terminal, DC control voltage from the control board to the SSR

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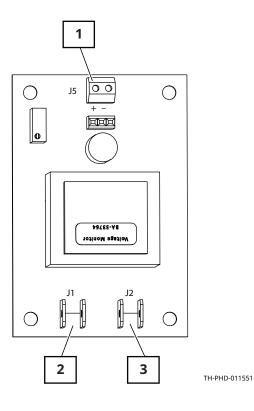
Dual cavity



Ref.	Description
1	Terminal A1 - Circuit A
2	Terminal B1 - Circuit B
3	Connector
4	Terminal B2 - Circuit B
5	Terminal A2 - Circuit A
6	Circuit B DC- from control board
7	Circuit B DC+ from control board
8	Circuit B call for heat indicator
9	Circuit A call for heat indicator
10	Circuit A DC- from control board
11	Circuit A DC+ from control board



Voltage Monitor (208–240V Ovens Only)



Input	DC Range
200–209	4.58-5.00
210-219	4.17-4.53
220-229	3.82-4.13
230-239	3.51-3.78
240-249	3.22-3.48
250+	3.20

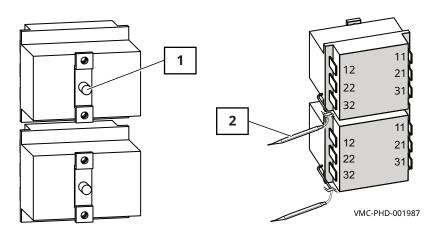
Ref.	Description
1	J5 DC output
2	J1 AC input
3	J2 AC input



High Limit Switches

Resettable

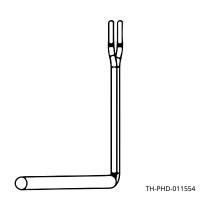
Contacts open at 300°F (149°C)



Ref.	Description
1	Reset button
2	Temperature bulb

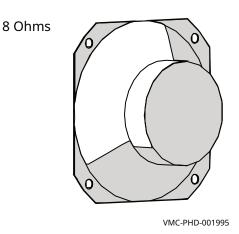
Chamber Air Temperature Probe

100 Ohm at 0°C



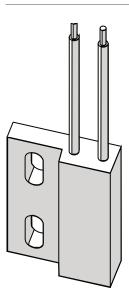


Speaker



Door Switch

- Door closed 0 Ohms; 0 VDC across terminals 1 and 2 (top oven) or 5 and 6 (bottom oven) of connector J9 on the control board.
- **Door open** Infinite Ohms; 8 VDC across terminals 1 and 2 (top oven) or 5 and 6 (bottom oven) of connector J9 on the control board.



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Fan

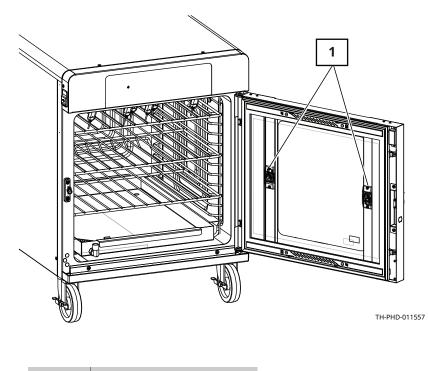
- Impedance protected
- 240 Volt
- 581 Ohm



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Internal Components Identification



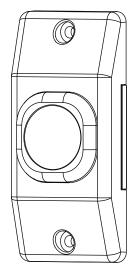
Ref.	Description
1	Cavity lights



Internal Components

Cavity Light

12 VDC



VMC-PHD-007587



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Maintenance Schedule

Requirements	 See topic <i>How to Clean the Oven</i>. Make sure the oven is cooled down and off—inside of chamber 140°F (60°C) or less.
Daily	For daily maintenance, do the following.
	 See topic <i>How to Clean the Oven</i>, and follow the Daily Cleaning procedure. Check the screen for cracking or peeling. Contact Technical Service if needed.
Weekly	For weekly maintenance, do the following.
	 See topic <i>How to Clean the Oven</i>, and follow the Weekly Cleaning procedure. Check the oven for any damage or loose parts.
Monthly	For monthly maintenance, do the following.
	Inspect door gasket.
	Inspect door window gasket for proper seal.
	Inspect cavity door vent slides for proper operation.
	Inspect side racks, shelves, and shelf supports for damage.
	 Calibrate the removable product probe (if applicable)
	Clean the cooling fan intake area and exhaust vents.
	Inspect door handle screws and tighten if necessary.
	 Inspect the smoke element (if applicable). If any deformation, cracks or breaks are seen, remove the oven from service and contact a factory authorized service technician.
Yearly	For yearly maintenance, do the following.
	NOTE: Must be performed by a qualified professional.
	Check and tighten all wire connections.
	Inspect the smoke element and smoke element wiring.
	Measure the current draw of each cavity. Operate with smoker on if applicable.
	Test the heating elements for electrical short to ground.
	Inspect the condition of the cord and plug.
	Continued on next page





MAINTENANCE

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- **Check and tighten** the cord connection inside of the appliance control area.
- Inspect the control cooling fans (if applicable).
- **Measure** the site voltage.
- **Inspect and adjust** voltage monitor board if needed.
- **Inspect** and test the product probe and product probe receptacle.
- **Inspect** and test the control and control functions.
- **Inspect** the cavity for structural integrity.
- **Inspect** the door gaskets for correct shape and seal. Replace/repair as needed.
- **Inspect** the door handle and hinges. Replace/repair as needed.
- **Inspect** the full perimeter bumper.
- Inspect the casters.
- **Do** a cavity temperature calibration procedure per manufacturer's recommendations.



How to Clean the Oven

Before you begin



WARNING: Electric shock hazard. Set the power switch to the OFF position and unplug the oven before cleaning it.



CAUTION: Burn hazard. Allow the oven, drip pans, and racks to cool before cleaning.



CAUTION: Corrosive materials hazard.

Wear eye protection and hand protection when cleaning.

NOTICE	Using improper cleaning procedures will damage the oven and void the warranty.
	Only use spray cleaner when the electric power is completely removed from the oven.
	Do not use steel pads, wire brushes, or scrapers when cleaning.

Daily cleaning procedure

To clean the oven daily, do the following.

Step	Action
1.	Make sure the oven is turned off and cool—cavity is less than 140°F (60°C).
2.	Remove all detachable items such as wire shelves, side racks, drip pan, and drip tray and clean these items separately.
3.	Remove any spills with disposable paper wipes or a damp cloth.
4.	Wipe the outside of the oven and the drip tray holder with a damp cloth.
5.	Wipe the control panel, door vents, door handles and door gaskets with a non-abrasive nylon scrub pad.
6.	If oven has an optional glass door, clean each side of the window pane with an all-purpose glass cleaner.
7.	Wipe probe, cable assembly, and probe prongs with a non-abrasive nylon scrub pad. Wipe probes with disposable alcohol pad or sanitizing solution recommended for food contact surfaces.
8.	Wipe the outside of the oven with a stainless steel cleaner.

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Weekly cleaning procedure

To clean the oven weekly, do the following.

Step	Action								
1.	Set the power switch to the OFF position and unplug the appliance.								
2.	Wipe the exterior areas of the oven with a non-abrasive nylon scrub pad.								
3.	Spray the exterior areas of the oven with stainless steel polish.								
	NOTICEUse only non-caustic cleaners.Do not spray directly into the fan openings on the back of the oven.Do not use cleaners that contain sodium hydroxide (lye) or phosphorus.								
4.	Spray the interior areas of the oven with oven cleaner. Let the cleaner work for 3–5 minutes.								
5.	Wipe the interior of the oven with a non-abrasive nylon scrub pad.								
6.	Clean the door gasket with a warm water and detergent solution.								
7.	If oven has an optional glass door, clean each side of the window pane with an all-purpose glass cleaner.								
8.	Plug the appliance in and set the power switch to the ON position when complete.								

Result

The oven is now clean.

Error Codes

DELUXE	CONTROL		
Code	Description	Cause	Remedy
E-10	Cavity probe shorted	Short circuit detected on sensor wires.	 Sensor connection Sensor Control Board
E-30	Unit under temperature	Cavity temperature remains 25°F (14°C) below target for more than 90 minutes.	Troubleshoot heating element
E-31	Unit over temperature	Cavity temperature is 50°F (28°C) above max allowable cook temperature of 325°F (163°C).	1. Cooling fan not operating 2. Installation clearance requirements not met
E-78	Under voltage	Supply voltage falls below 200V (error doesn't show on screen).	Correct the supply voltage
E-79	Over voltage	Supply voltage exceeds 250V (error doesn't show on screen).	Correct the supply voltage
E-94	Communication	No signal transfer for more than 5 seconds between the Interface Board and the Control Board.	 Connection of Modbus Cabl Modbus Cable Control Board Interface Board
E-108	Check fans	Insufficient internal cooling airflow.	 Cooling fan filters dirty Cooling fans not operating Installation clearance requirements not met
E-109	High Limit NOTE: Any oven experiencing this error should be investigated by an authorized Alto-Shaam service provider.	Open circuit detected across High Limit Switch	1.Heat Relay(s) stuck closed 2.Connection between High Limit Switch and Control Board 3.High Limit Switch



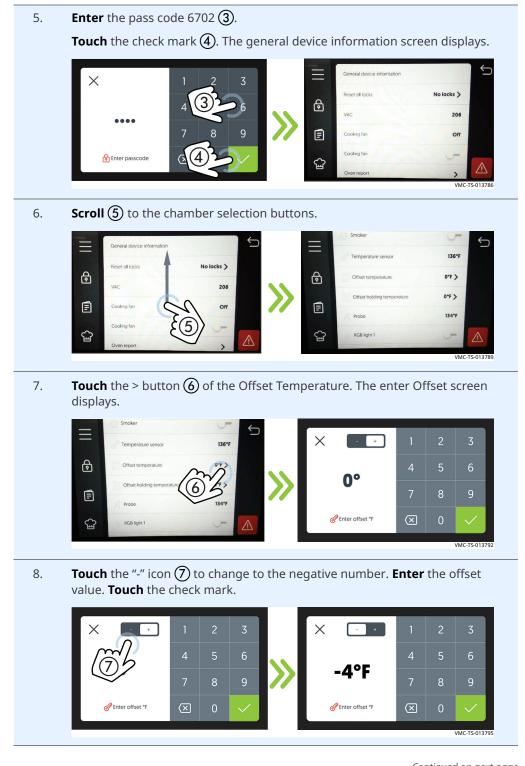


How to Calibrate a Chamber Thermocouple

Before you begin Procedure	oven must be connected to electric power. The sure you have a multimeter with a thermocouple attachment. Thermocouple needs to be calibrated in the "Hold" mode and the "Cook" de. Will need to know the service pass code. Thermocouple, do the following.	
	Step	Action
	1.	Insert the thermocouple from the multimeter into the heated oven. Allow the multimeter to stabilize.
		Compare the reading from the multimeter's thermocouple with the temperature sensor reading displayed on the screen.
Calibrate the offset	2.	Calibrate the offset number. Subtract the smaller value from the larger value. This is the offset. If the value measured by the multimeter was the larger value, the offset will be negative "+". If the value measured by the multimeter was the smaller value, the offset will be positive "-".
Enter the offset	3.	Touch the menu icon ①. The user menu screen displays.
	4.	Touch the service icon ②. The enter pass code screen displays.

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9.	<text></text>
10.	Repeat the procedure for the HOLDING offset.
11.	Cool the oven.

Result

The cavity thermocouple has now been calibrated.



High Limit Alarm

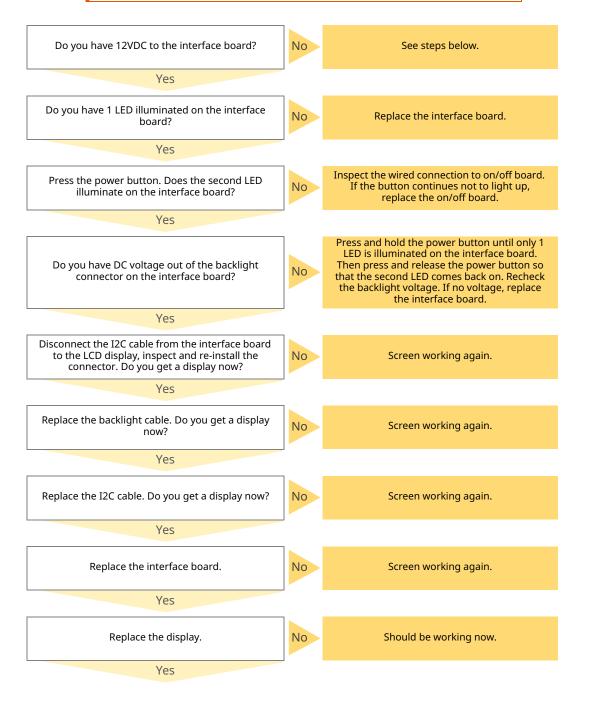




The Display does not Illuminate

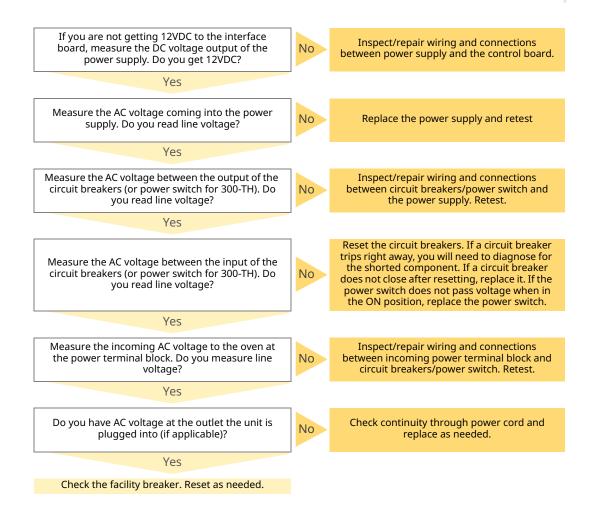


WARNING: Electric shock and arc flash hazard. Use caution when measuring line voltage. Wear Personal Protective Equipment (PPE).



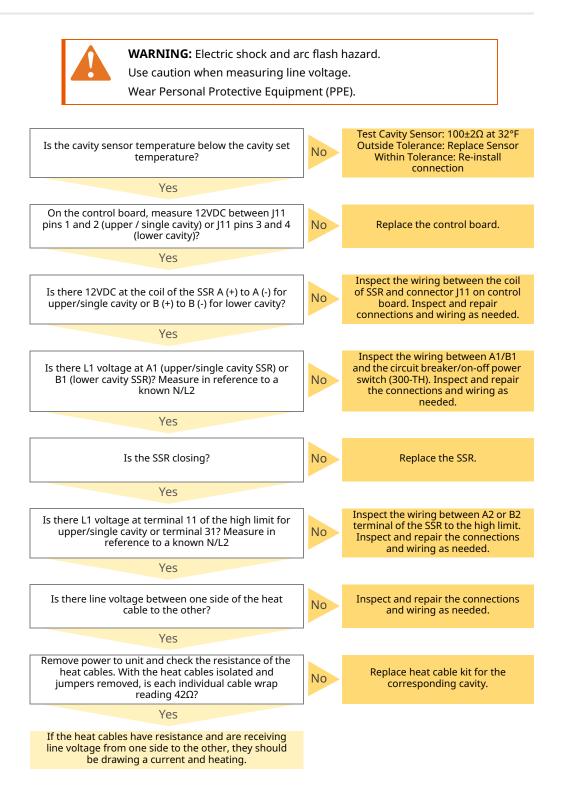


TROUBLESHOOTING

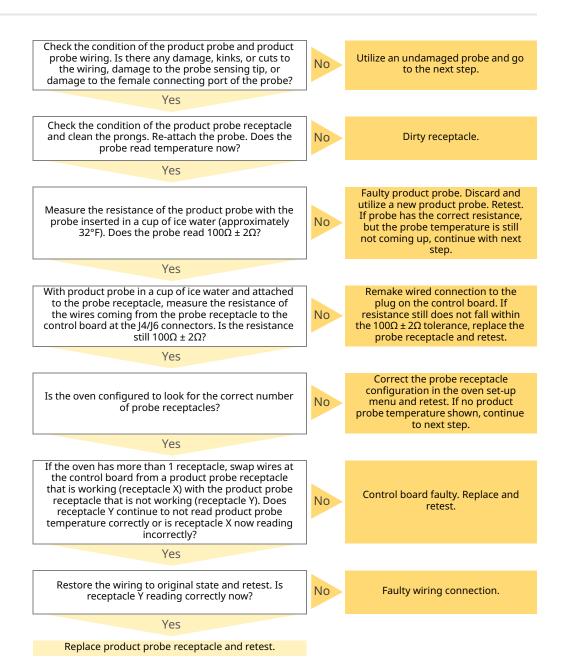




The Oven does not Heat



The Product Probe does not Work

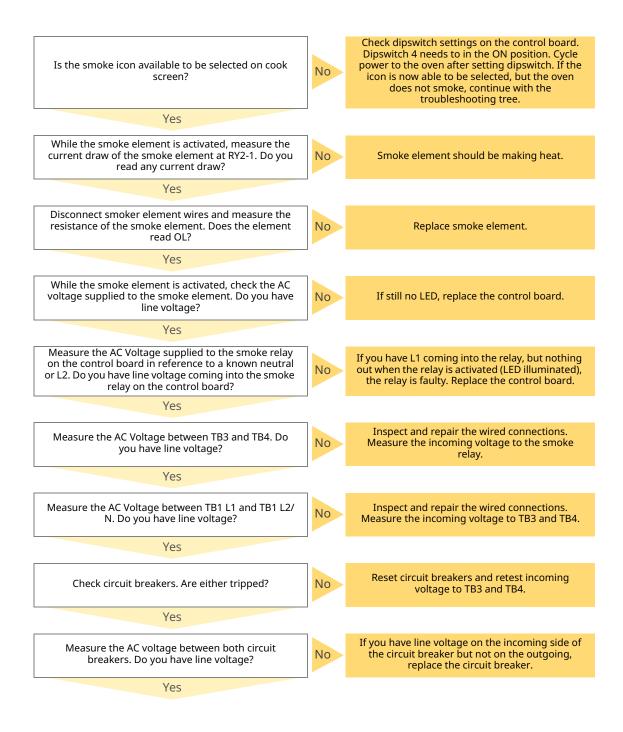




The Smoke Function does not Operate



WARNING: Electric shock and arc flash hazard. Use caution when measuring line voltage. Wear Personal Protective Equipment (PPE).



TROUBLESHOOTING

Measure the incoming voltage at the L1 and L2/N terminal block. Do you have line voltage?

Yes

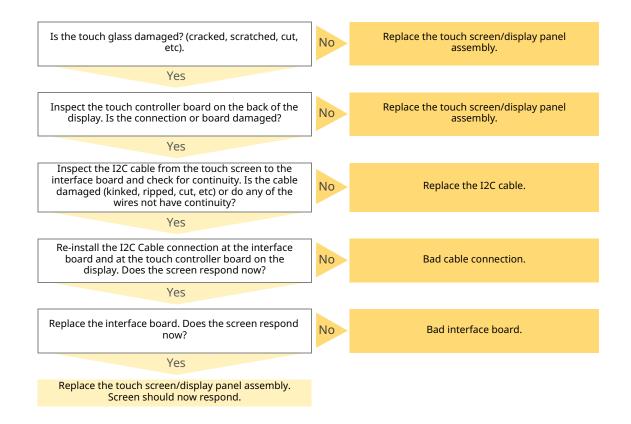
Inspect and repair wired connections. Measure voltage at the circuit breakers.



No power coming to the oven. Recheck facility breaker to the oven and power cord.



The Screen is not Responsive/Incorrect Response to the Selected Icon



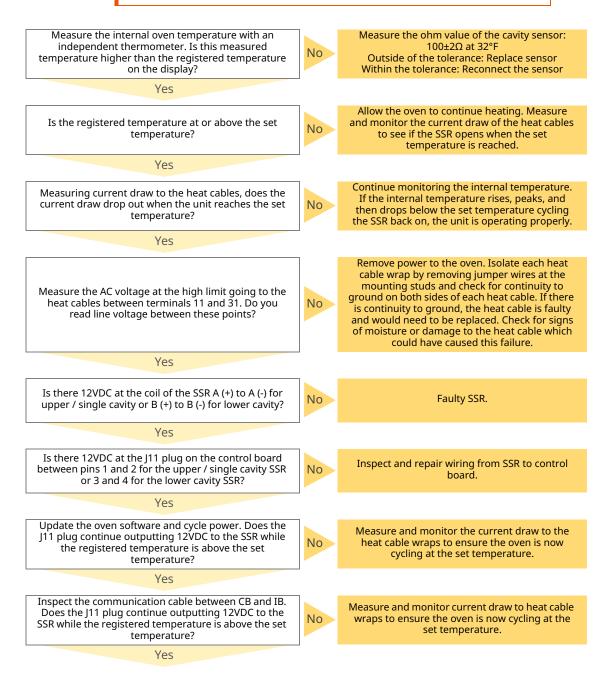
ALTO-SHAAM

The Oven Overheats



WARNING: Electric shock and arc flash hazard. Use caution when measuring line voltage.

Wear Personal Protective Equipment (PPE).





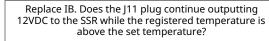
TROUBLESHOOTING

Replace CB. Does the J11 plug continue outputting 12VDC to the SSR while the registered temperature is above the set temperature?



Measure and monitor current draw to heat cable wraps to ensure oven is now cycling at the set temperature.

Yes

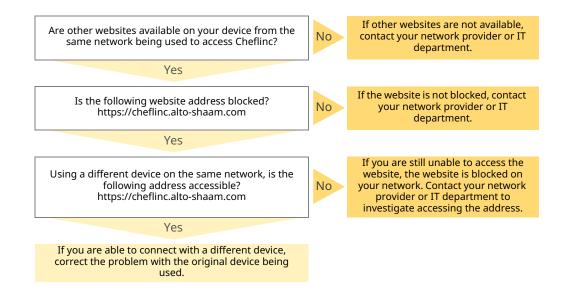


No wi

Measure and monitor current draw to heat cable wraps to ensure the oven is now cycling at the set temperature.

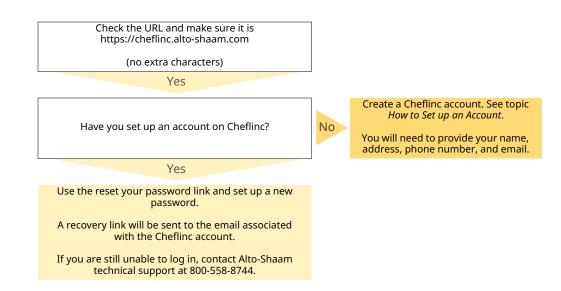


Cheflinc.alto-shaam.com is Not Available on Your Device



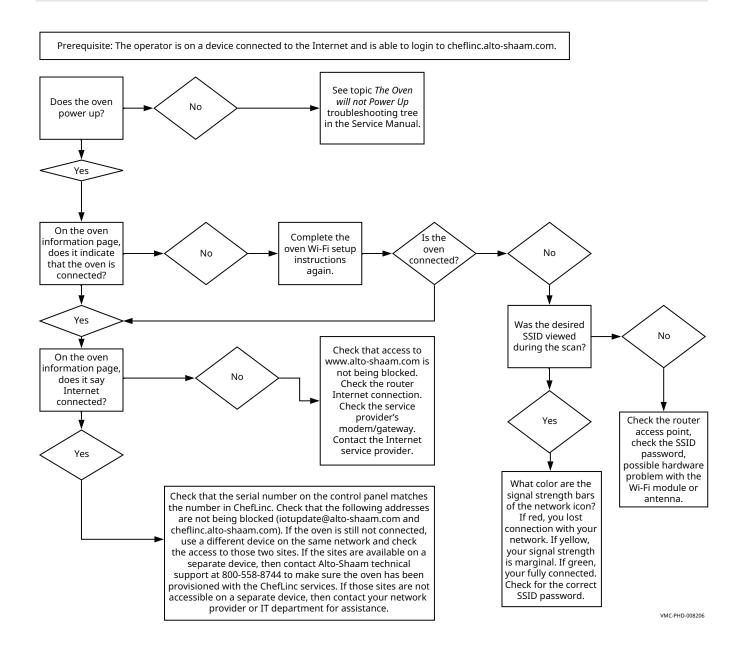


Cannot Connect to cheflinc.alto-shaam.com





The Oven is not Displayed on the Dashboard





Unable to Assign Recipes from the Dashboard to Ovens in the Field

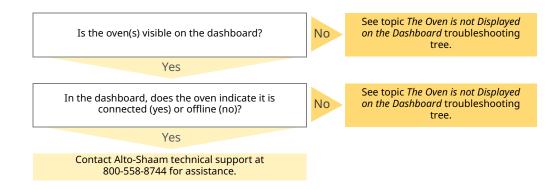




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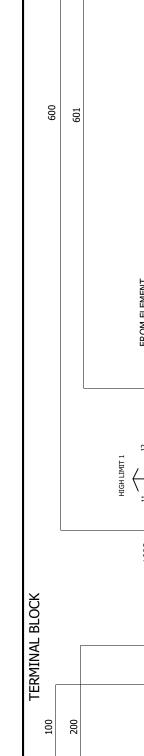
02	03	04	05	90	07	08	60	10	11
БЧ	БЧ	БС	Бq	БЧ	Бq	БЧ	БЧ	БЧ	Бq

LTQ-SHAAM Schahermics

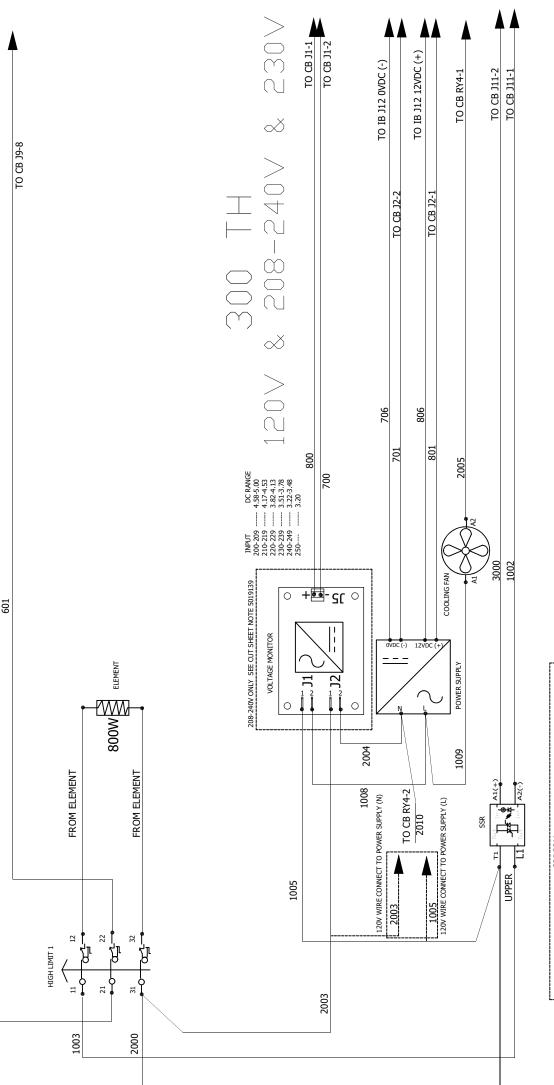
	8	1/20/2021	montev	182095	1/20/2021 montev 182095 Switch 2006 and 2007 location on high limit	ation on high limit	
	~	11/11/2020	montev 182040	182040	Adding two wrap 750 & 1000 SK	200 SK	
	9	6 10/3/2020	montev 181497	181497	Ethernet option		
	5	3/16/2020	montev	181489	Remove page 2 and 8 ad	montev 181489 Remove page 2 and 8 adding EMI filter for CE units, add gnd simple control	e control
	4	1/10/2020	montev		Change Dip Switch 6 to LED,	ED,	
	REV.	DATE	NAME	ECO	C	CHANGES	
				1		ASi	REVISION
-			100/1	\			¢
		ALL	ALL COOK & HOLD	U IOH V)
							PAGE
							1/11

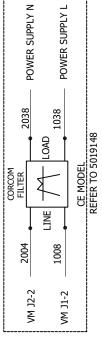


300 TH 500 TH 750 TH 1000 TH 1200 TH 1750 TH 1750/1200 TH 380V CONTROL CB DELUXE CONTROL SIMPLE CONTROL



TO CB J9-7



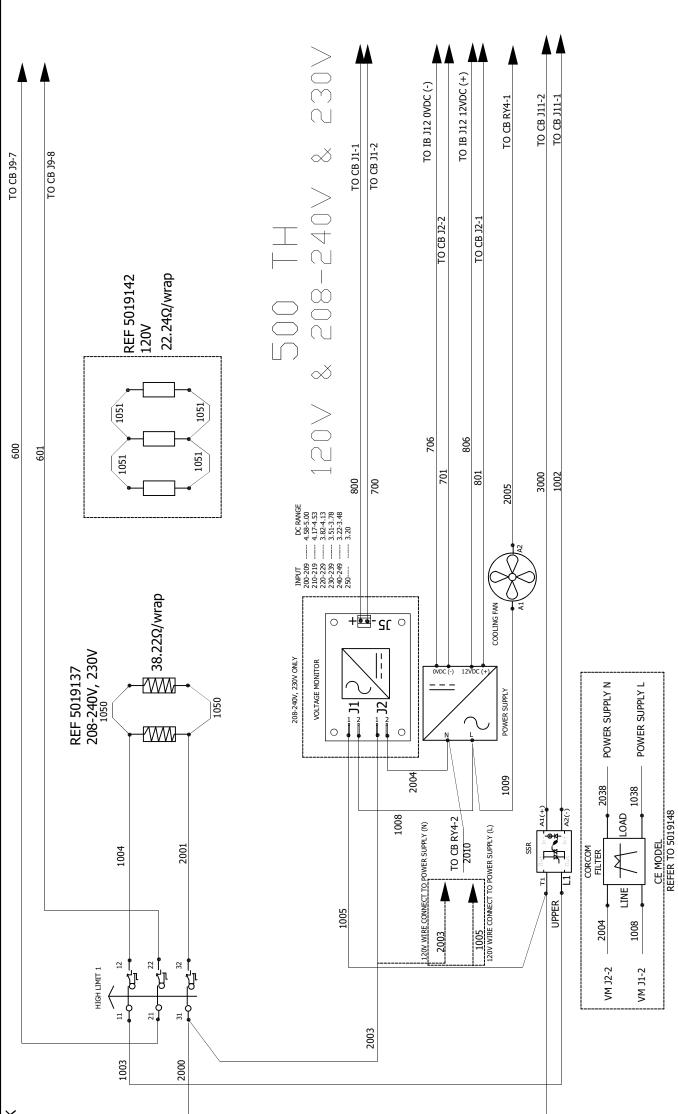


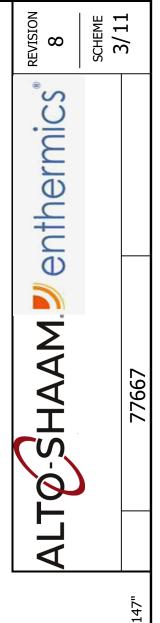


REF 120V "5019156" REF 208-240V, 230V "5019157"

GRND TERMINAL 401 -||·

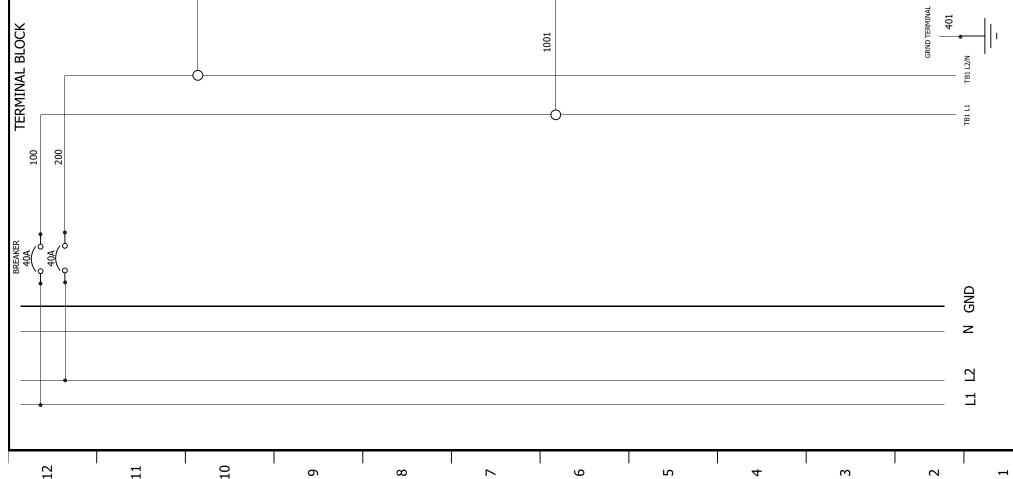
TERMINAL BLOCK				1001				GRND TE	
0N/OFF_SWITCH	-								
									L1 L2 N GND
12		 ი	ω	9	<u>م</u> ا	4	 	5	

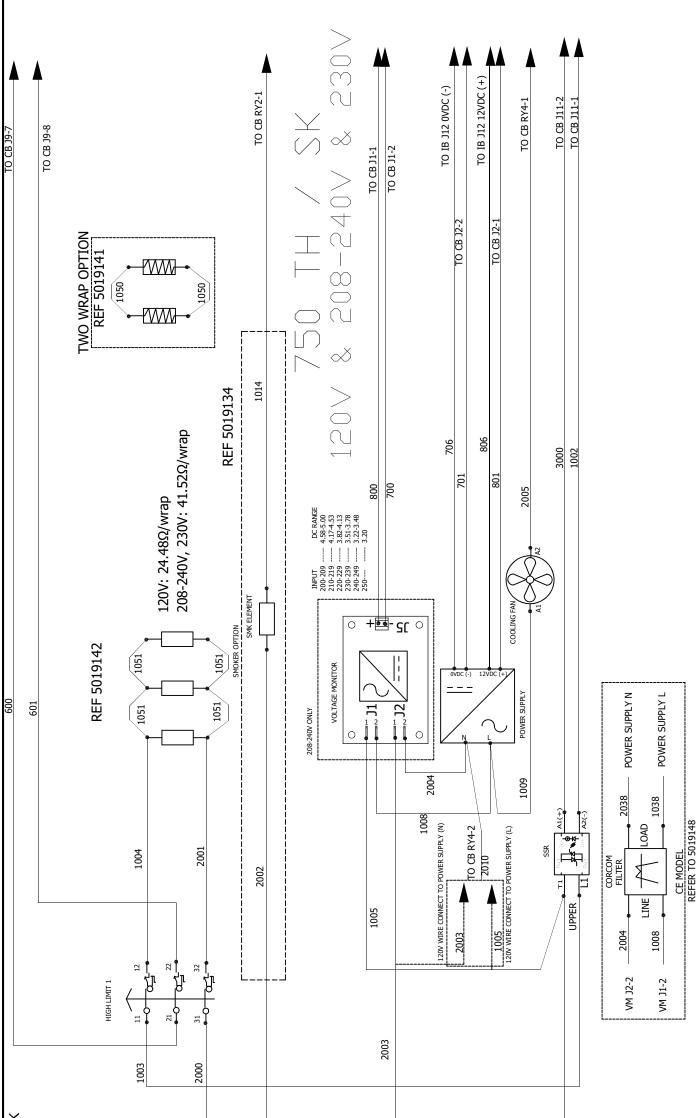




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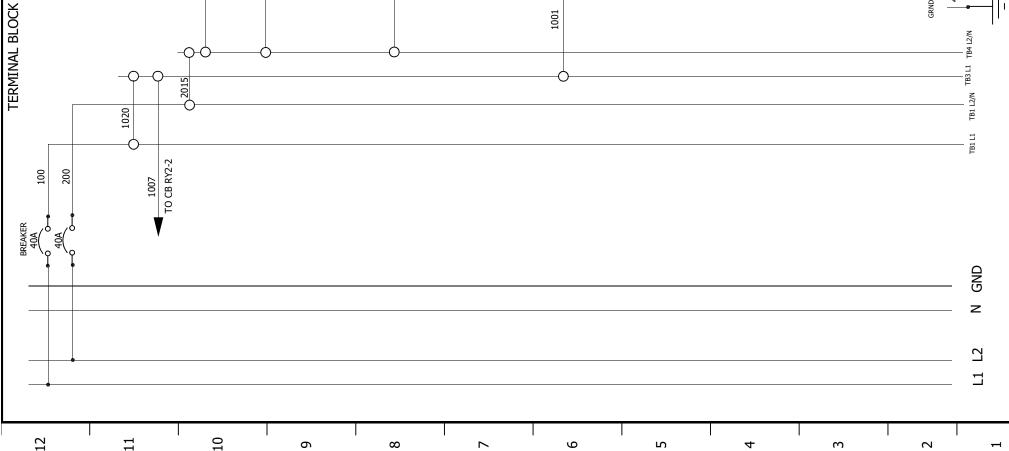


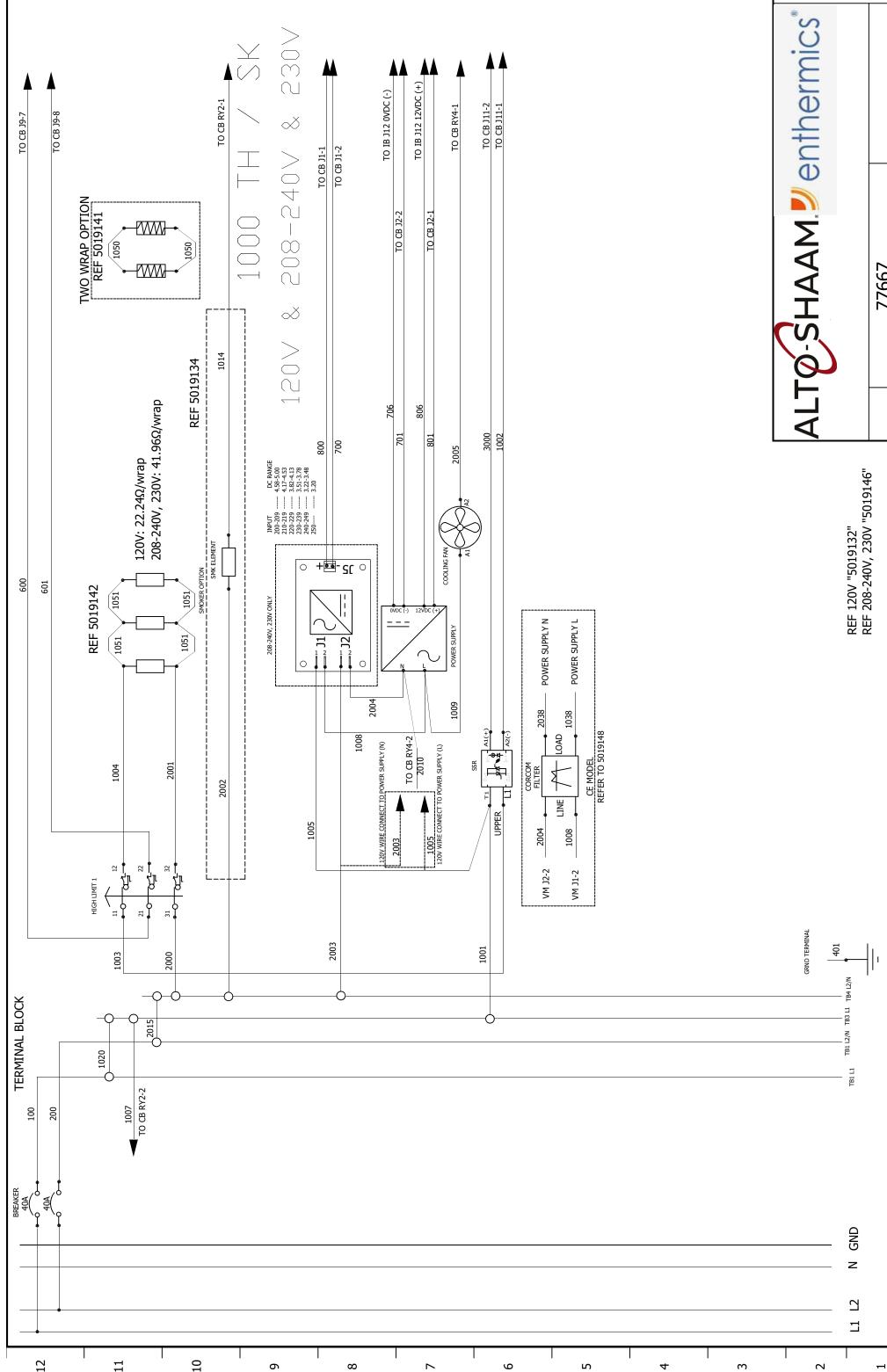




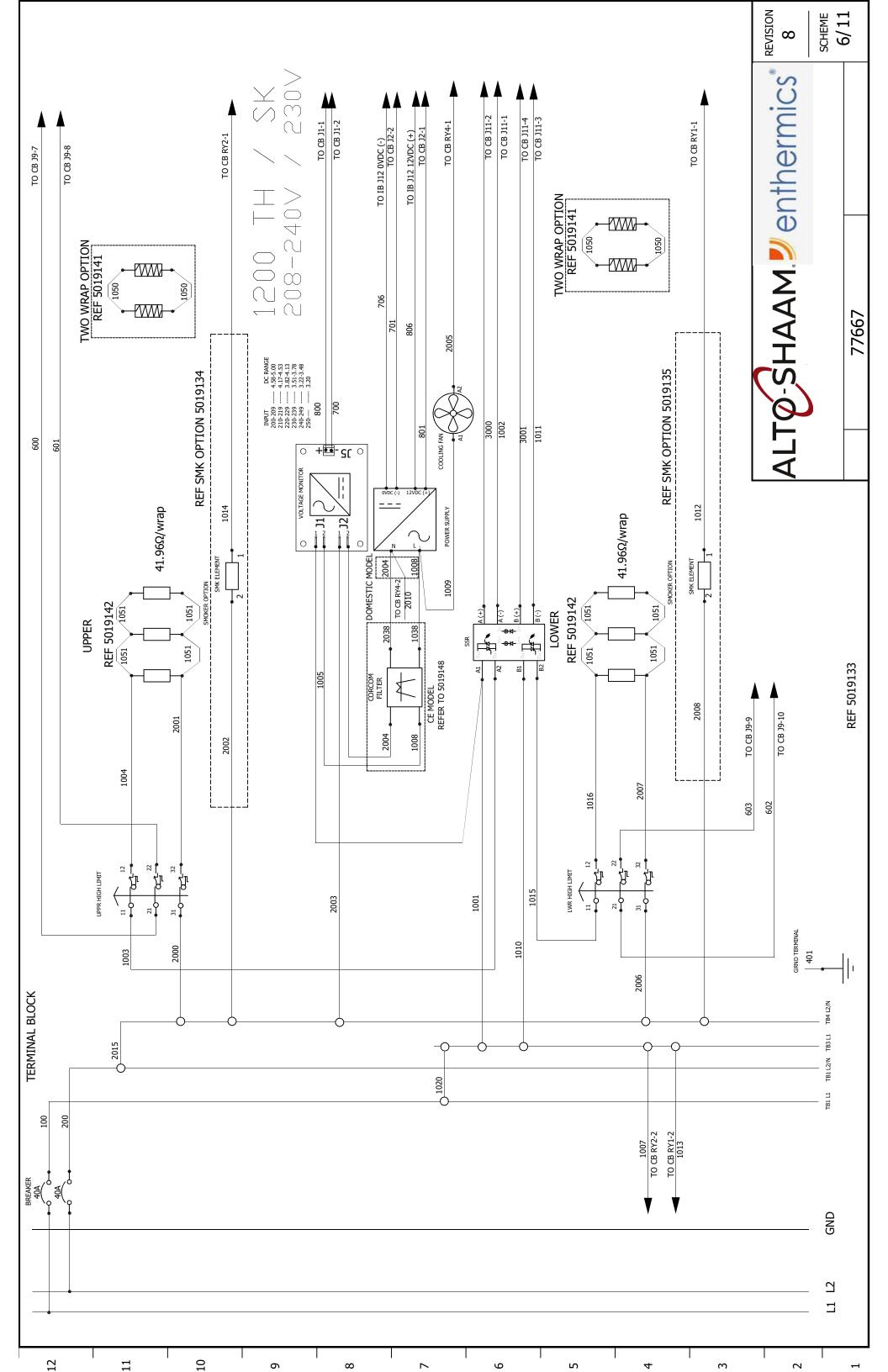
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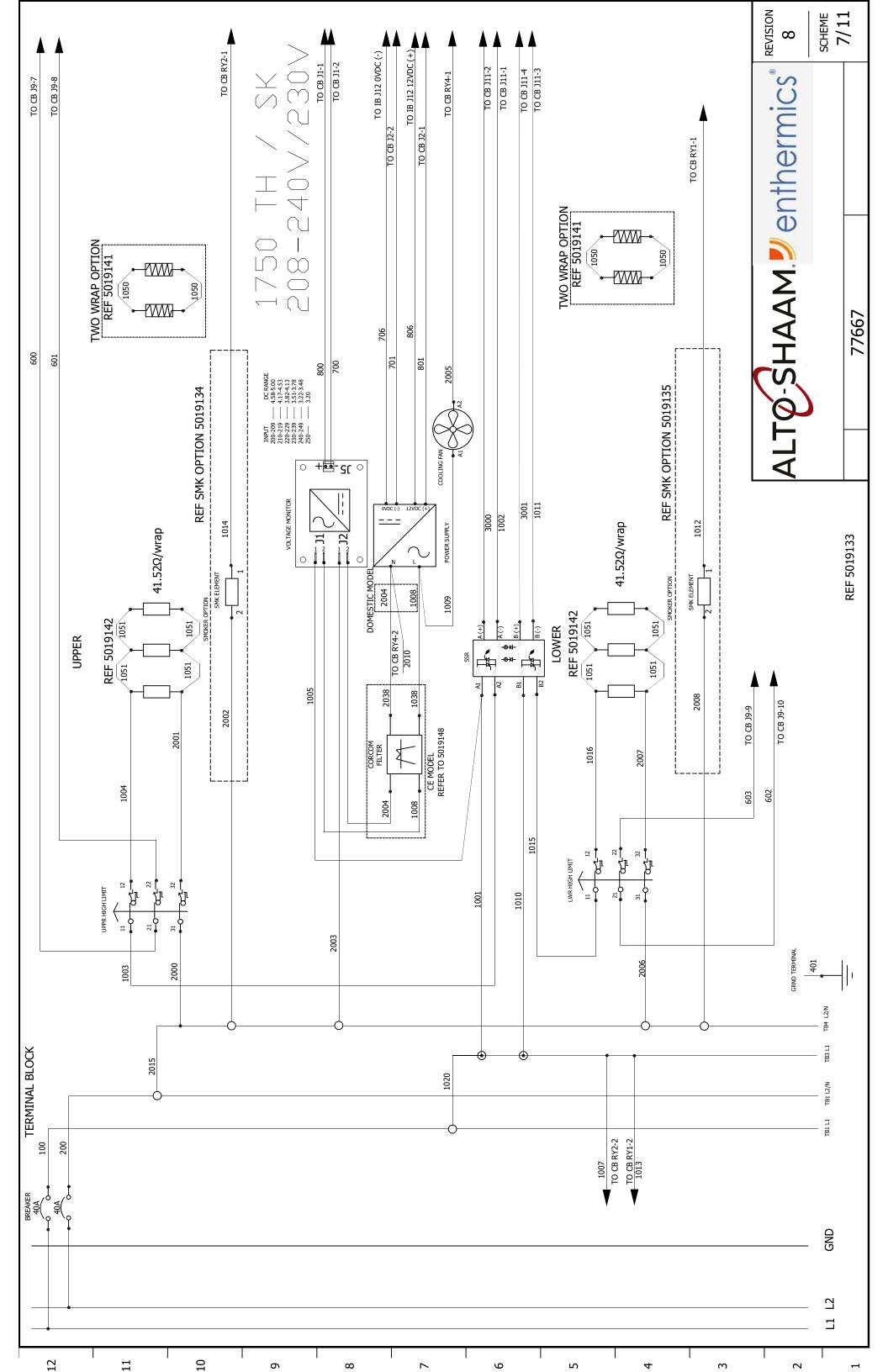
GRND TERMINAL 401

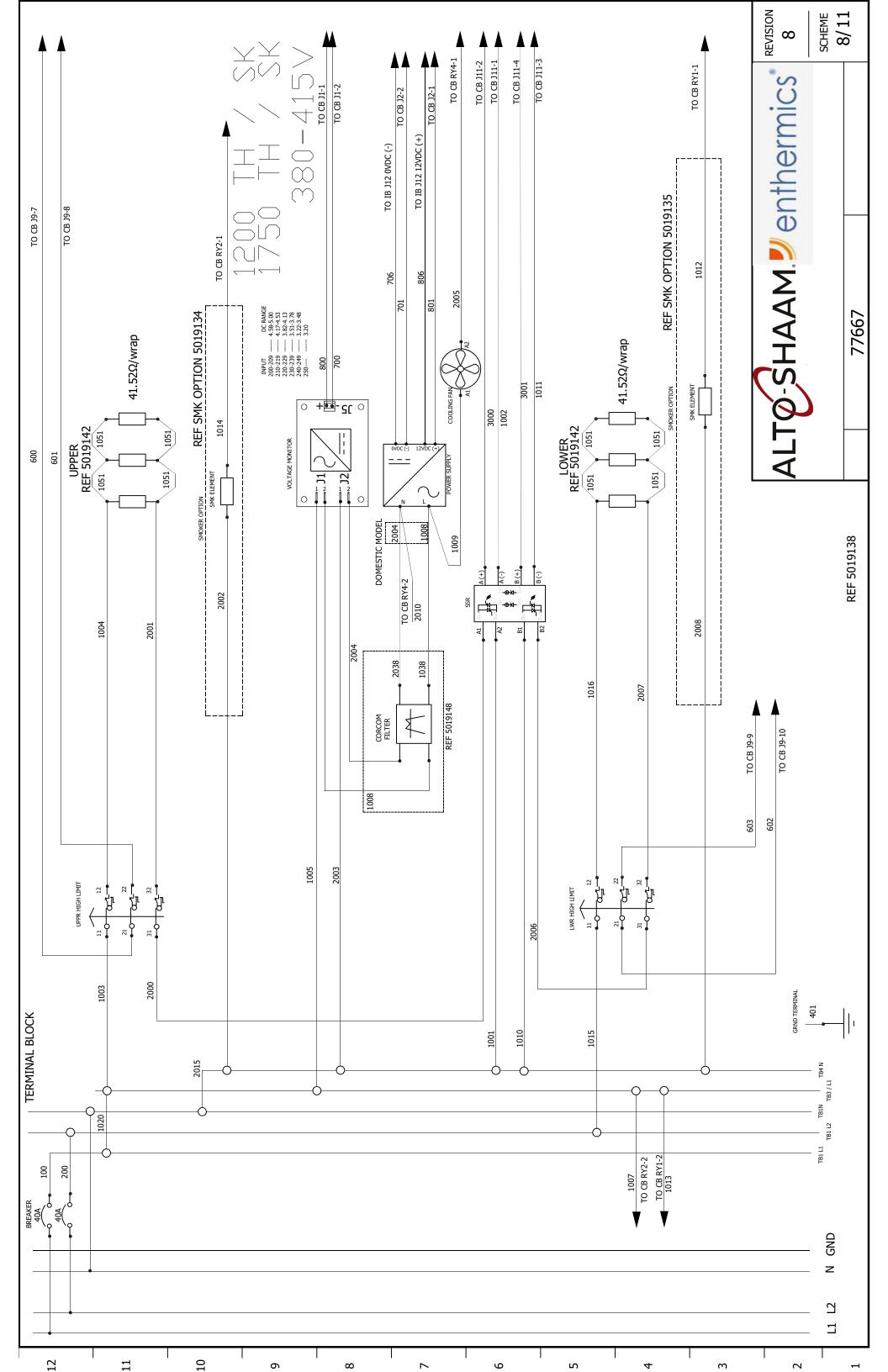


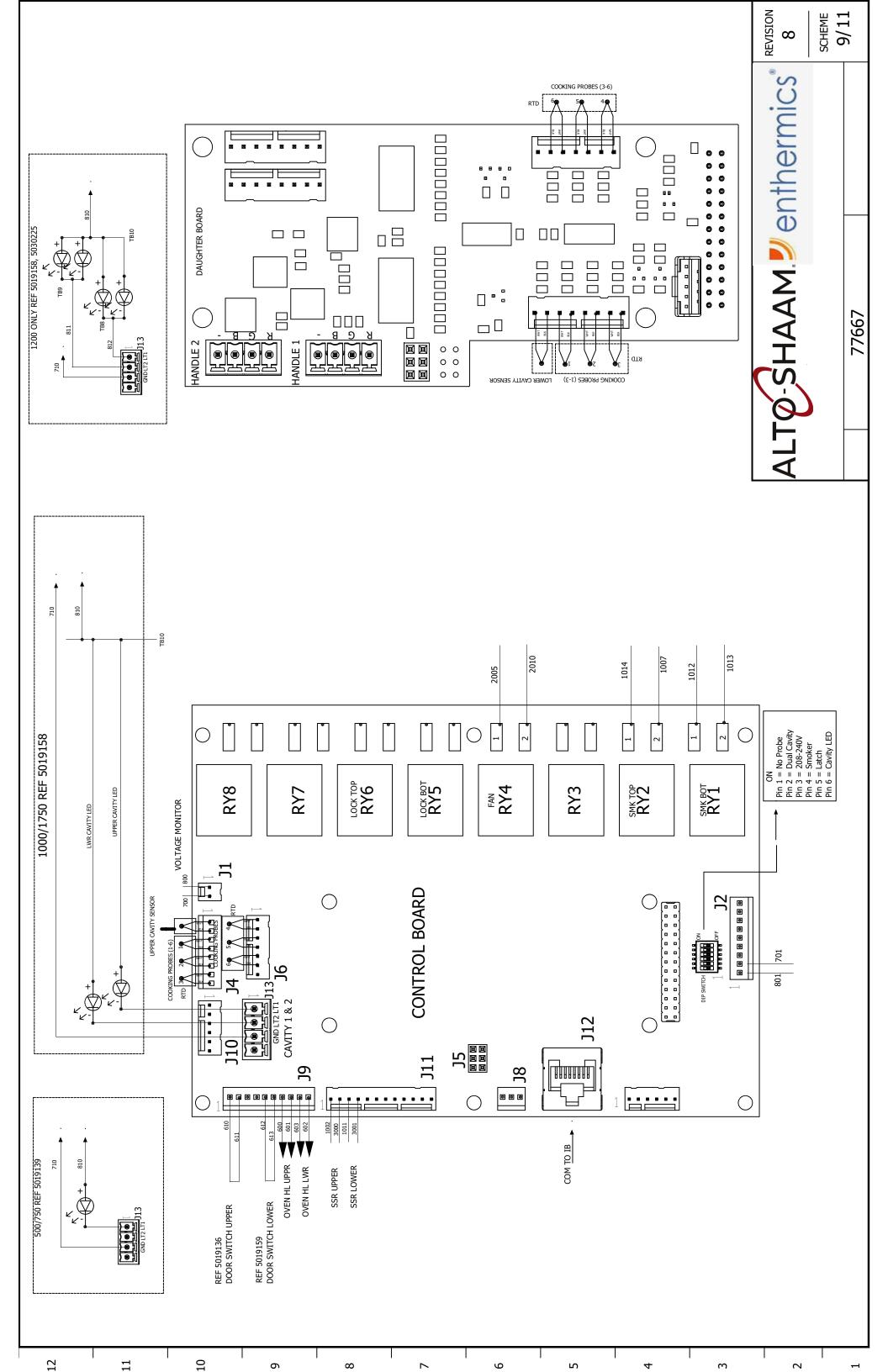


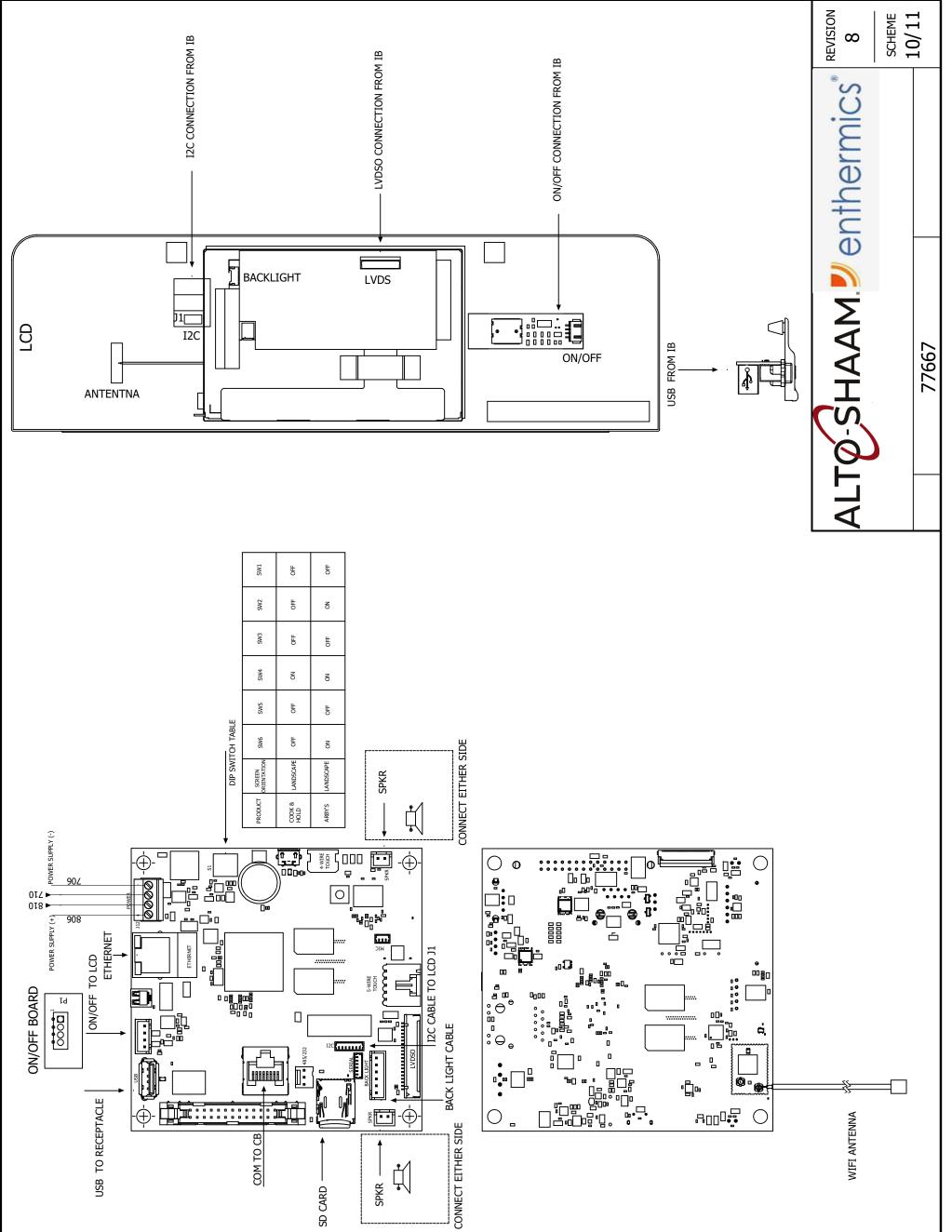




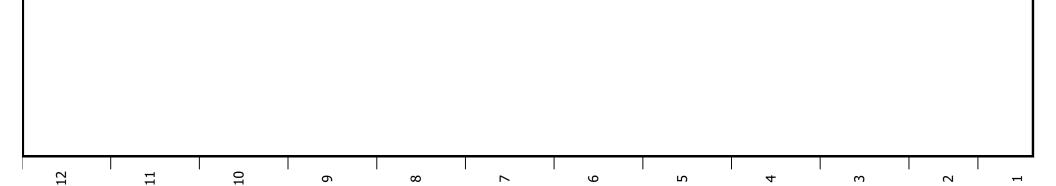




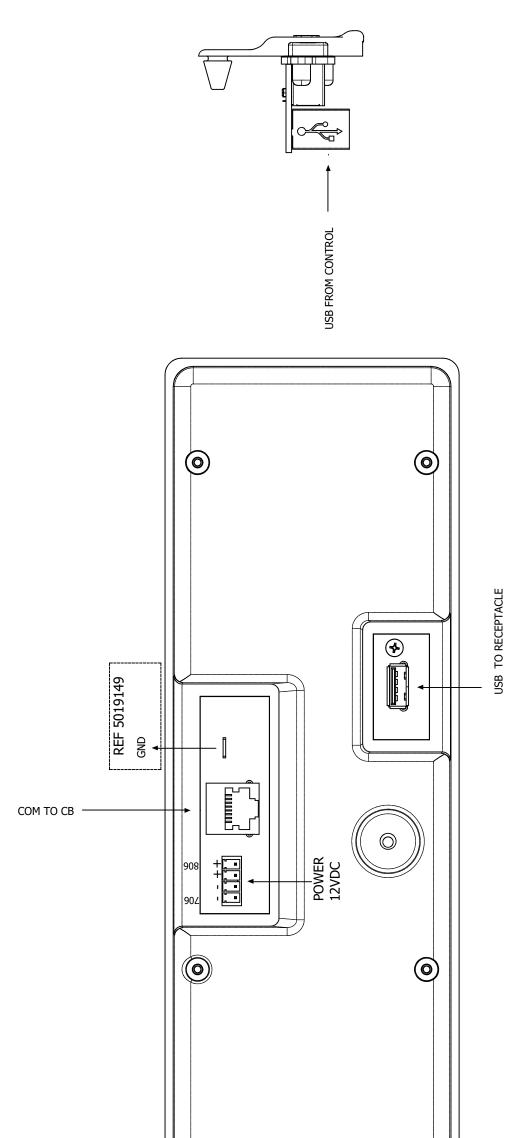


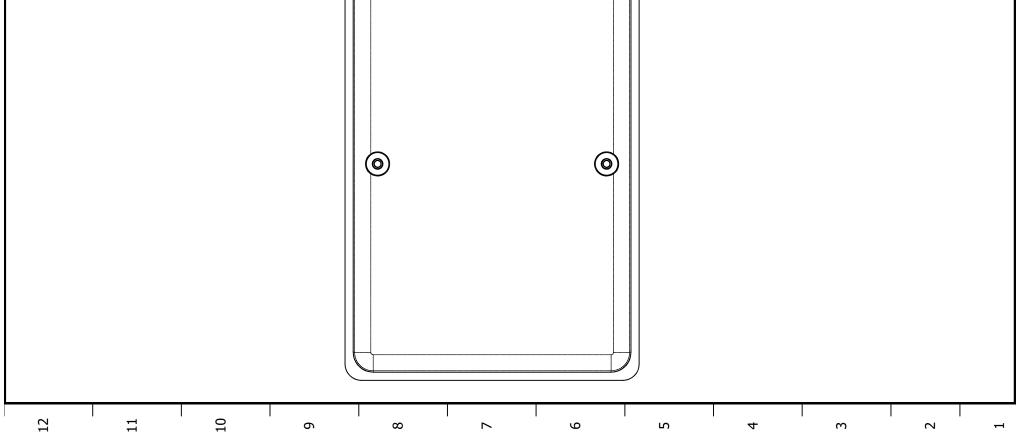
















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