

Self-Cleaning Rotisserie Oven

AR-7T



MN-39404-EN

REV.07
6/23
EN

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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.

Enjoy your Alto-Shaam Rotisserie Oven!

Exclusive cleaning and grease collection systems

This rotisserie oven features a hands-free, self-cleaning design that saves time and uses 35% less water than traditional models during the automatic cleaning process. The oven's cleaning system also has no moving parts, which makes it more reliable.

The built-in grease collection system pumps grease into jugs that are easily removed for safe and quick disposal.

Various cooking options

Obtain perfect crispiness and even browning with flexibility to choose from seven browning levels and four cooking levels.

Attractive design

The oven has an illuminated interior to highlight the food for your customers to help boost impulse sales.

Extend Your Manufacturer's Warranty

Register

Register your Alto-Shaam appliance online. Registering your appliance ensures prompt service in the event of a warranty claim.

Your personal information will not be shared with any other company.

alto-shaam.com/warranty

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.

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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

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.

Appliance Description and Intended Use

Appliance Description

This Alto-Shaam rotisserie oven is an electric-powered oven with programmable touchscreen control that includes multi-level cooking for preheat, cooking, holding, and cool-down stages. It includes a self-cleaning wash system with built-in sanitizing cycle. Seven angled spits are included; a variety of spits are offered as options. Double-pane glass door available in curved or flat options. USB port for recipe upload and download.

Intended use

The rotisserie oven is intended to cook, hold or process foods for the purpose of human consumption. No other use for this appliance is authorized. This appliance is intended to be used for commercial applications, for example in kitchens of restaurants, canteens, hospitals and in commercial enterprises such as bakeries, butcheries, etc., but not for continuous mass production of food.

Residual risks

This appliance is manufactured using ISO-certified processes. The appliance is designed with maximum safety in mind; however, there are residual risks to operators of this oven. Residual risks include exposure to heat and exposure to hot food products.

Possible misuse

Misuse of this appliance includes cooking food containing flammable materials (such as food with alcohol). Substances with a low flash point can ignite spontaneously and cause a fire.

Safety Precautions

Before you begin

Read and understand all instructions in this manual.

Electrical precautions

Obey these electrical precautions when using the appliance:

- Various electrical configurations of the rotisserie are available. Always match the power source with the power rating on the rotisserie's data tag.
 - Use one (1) dedicated circuit per rotisserie.
 - Use a junction box or electrical disconnect within 3' (914mm) of rotisserie.
 - Keep the cord away from hot surfaces.
 - Electrical connections and circuit breakers must meet all applicable federal, state and local codes.
 - Do not let the cord hang over the edge of a table or counter.
-

Usage precautions

Obey these usage precautions when using the appliance:

- Only use this appliance for its intended use of cooking or heating.
 - Do not load liquids, or foods that can become liquid when heated, into the rotisserie.
 - Use utensils and protective clothing when loading and unloading the appliance.
 - Use caution when using the appliance. Floors adjacent to the appliance may become slippery.
 - Use caution when opening the appliance door. Escaping hot vapors or steam can cause serious injury.
 - Do not open the door of the rotisserie during the cleaning cycle.
 - Do not cover or block any of the openings of this appliance.
 - Do not use this appliance near water such as a sink, in a wet location, near a swimming pool, or similar locations.
-

Maintenance precautions

Obey these maintenance precautions when maintaining the appliance:

- Obey precautions in the manual, on tags, and on labels attached to or shipped with the appliance.
- The appliance must be cleaned thoroughly to prevent deposits of grease and food residue inside the appliance that may catch fire.
- Do not place combustible materials in the appliance.
- Do not store the appliance outdoors.
- Do not clean the appliance with metal scouring pads.
- Do not use a hose, water jet, or steam cleaner to clean the appliance.
- Do not store or use any flammable substances near the appliance.
- For users only: Do not remove the top cover or side panels. There are no user-serviceable components inside.

Caster precautions

Obey these precautions if the appliance is installed on casters.

- Restrict movement of the appliance with a tether so that utility connections (water and electricity) are not damaged.
- Disconnect all utility connections when moving the appliance.
- Only use this appliance when it is stationary.
- Use caution when using the appliance on uneven floors. Mobile appliances and accessories can roll or tip over and cause serious injury or property damage.
- Lock the caster brakes on mobile appliances or accessories when they are not being moved.

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 appliance

Only use the appliance when:

- 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, or the use of non-factory parts, 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.
-

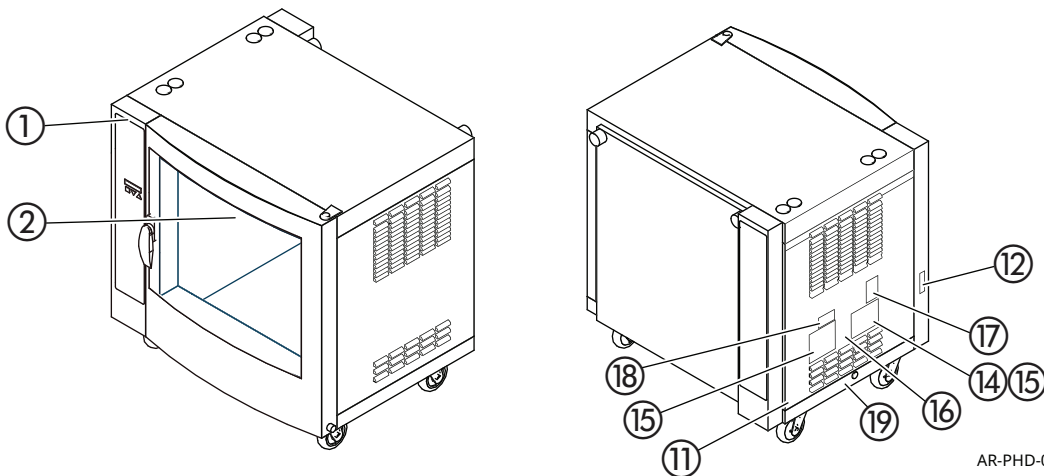
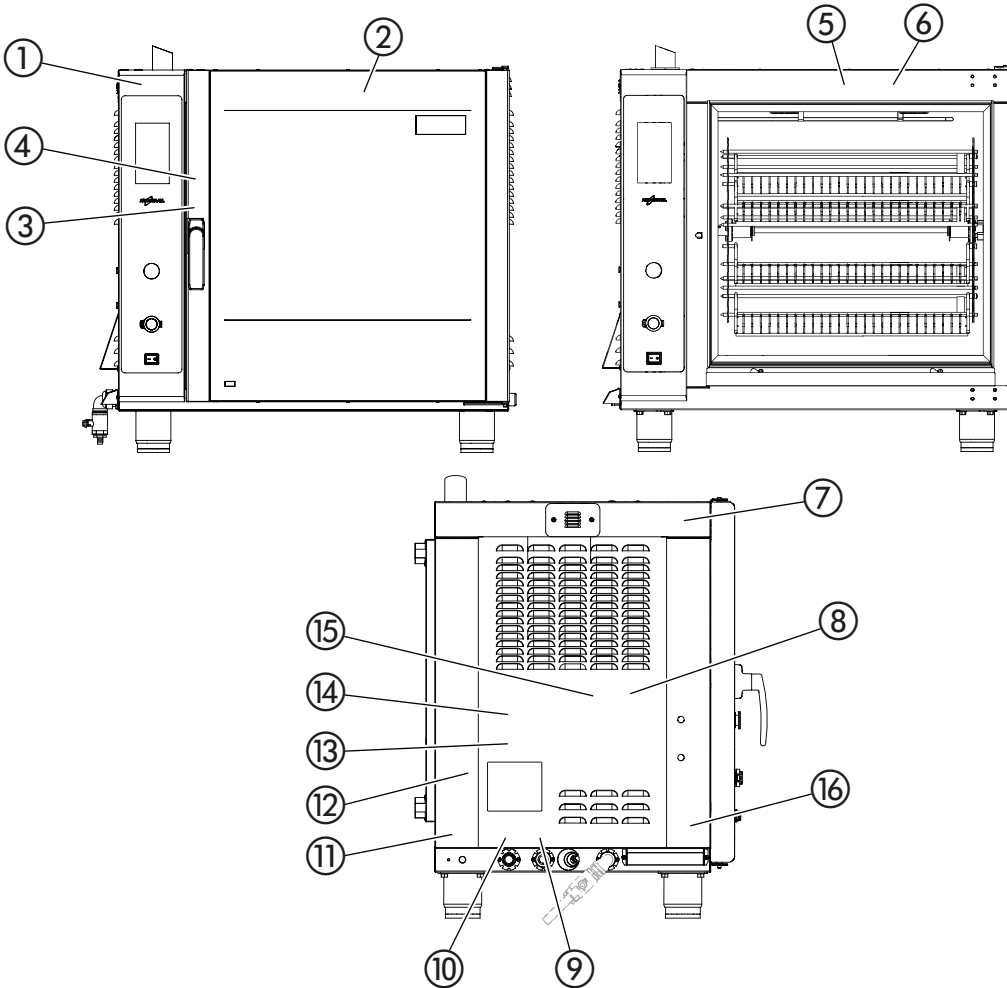
Personal Protective Equipment (PPE)

Wear the following Personal Protective Equipment (PPE) while cleaning the appliance:

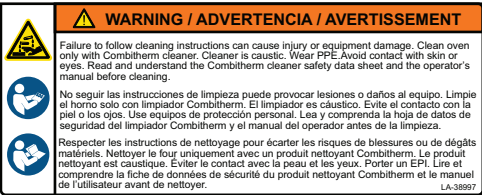
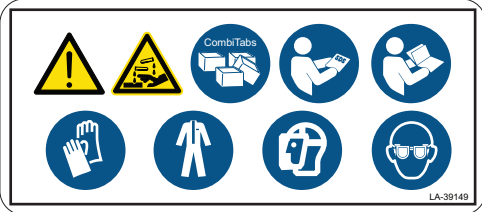
- Protective gloves
- Protective clothing
- Eye protection
- Face protection

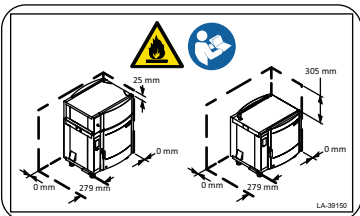
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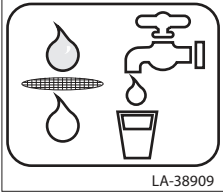
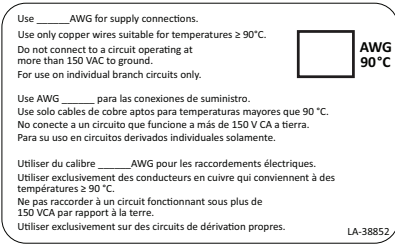
Label Locations

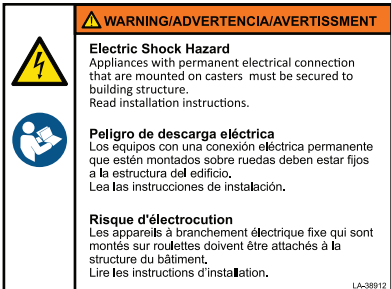
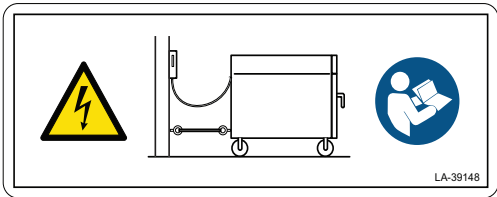
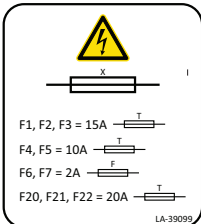
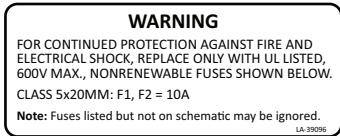


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1		Made in U.S.A.
2		WARNING Hot surface
3	 	WARNING Caustic chemicals. Do not open door during cleaning cycle.
4	 	WARNING Steam. Open door carefully.
5	 	WARNING Failure to follow cleaning instructions can cause injury or equipment damage. Clean oven only with Combitherm cleaner. Cleaner is caustic. Wear PPE. Avoid contact with skin or eyes. Read and understand the Combitherm cleaner safety data sheet and the operator's manual before cleaning.

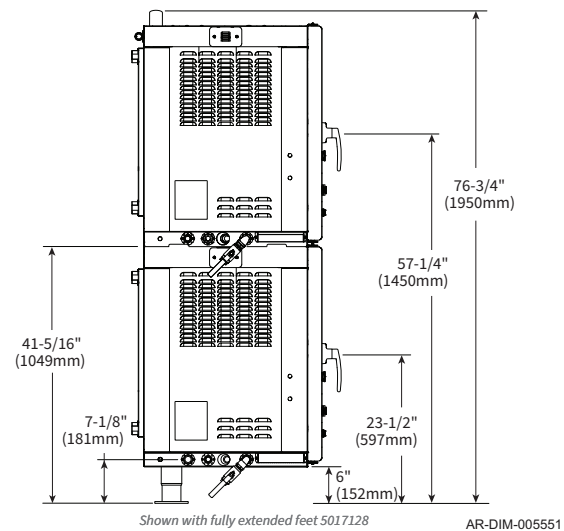
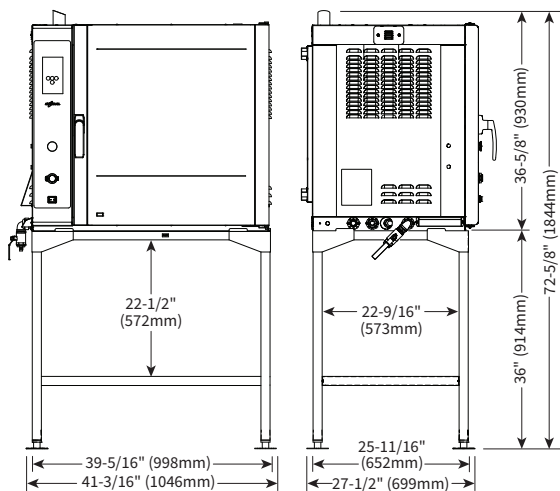
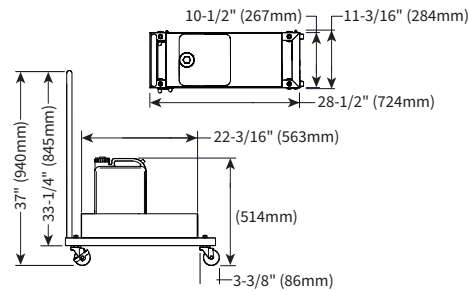
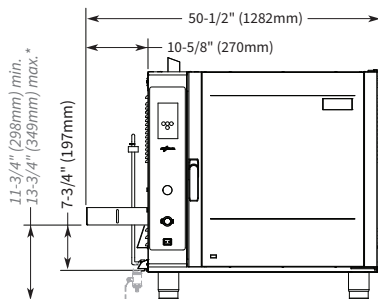
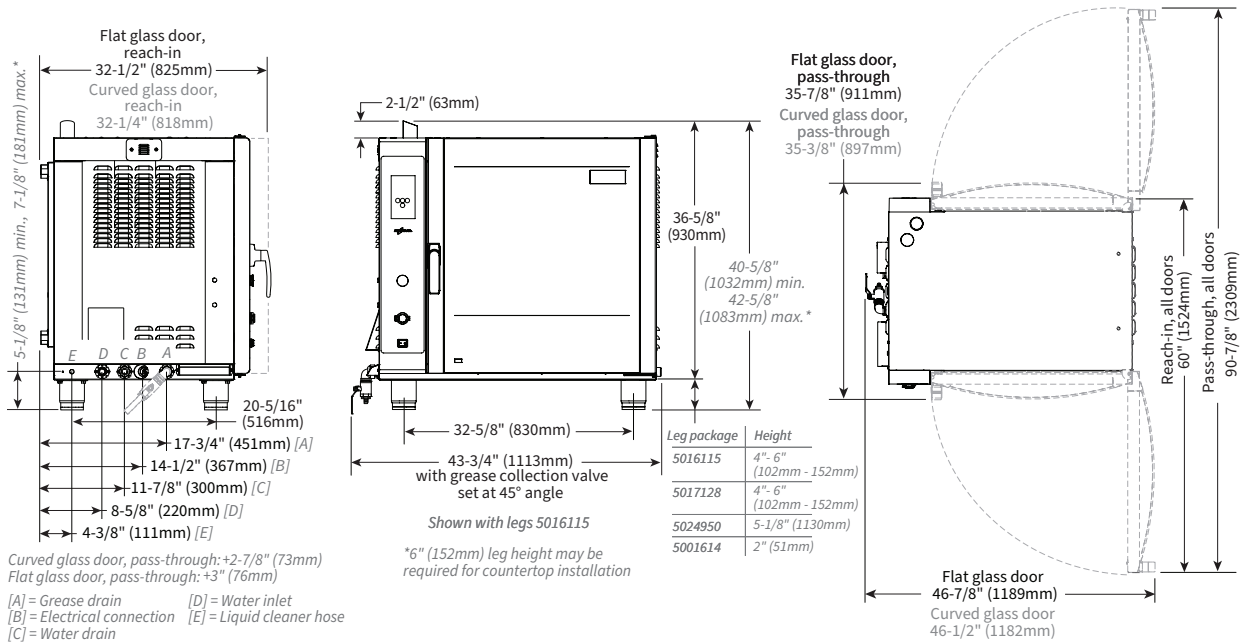
6	 ⚠ WARNING / ADVERTENCIA / AVERTISSEMENT Burn hazard. Always load liquids, or foods that can become liquid when heated, at an eye level where they can be seen. Peligro de quemaduras. Siempre coloque líquidos, o alimentos que se puedan volver líquidos cuando se calientan, a nivel de los ojos donde se puedan ver. Risque de brûlure. Toujours charger les liquides, ou les aliments qui deviennent liquides au chauffage, à hauteur des yeux où ils peuvent être vus. LA-39123  LA-39123	WARNING Burn hazard. Always load liquids, or foods that can become liquid when heated, at an eye level where they can be seen.															
7	 ⚠ CAUTION / ATENCIÓN / ATTENTION Electric Shock Hazard This group of appliances has multiple power supply cords. Disconnect all power supply cords before moving or servicing this appliance. Peligro de descarga eléctrica Este grupo de equipos tiene varios cables de alimentación. Desconecte todos los cables de alimentación antes de mover o realizarle mantenimiento a este equipo. Risque d'électrocution Ce groupe d'appareils comporte plusieurs cordons d'alimentation. Débrancher tous les cordons d'alimentation avant de déplacer cet appareil ou d'effectuer son entretien. LA-39462  LA-39462	(if applicable) CAUTION Electric Shock Hazard This group of appliances has multiple power supply cords. Disconnect all power cords before moving or servicing this appliance.															
8	 ⚠ WARNING/ADVERTENCIA/AVERTISSEMENT Fire Hazard For use only on noncombustible surfaces. Maintain the correct clearances to combustibles. Peligro de incendio Solo para uso en superficies no combustibles. Mantenga las distancias correctas de elementos combustibles. Risque d'incendie Utilisation sur des surfaces non combustibles seulement. Maintenir des dégagements corrects par rapport aux matières combustibles. <table border="1"> <thead> <tr> <th></th><th>Combustibles</th><th>Non-combustibles</th></tr> </thead> <tbody> <tr> <td>Top/rope/haut</td><td>12" (305mm)</td><td>12" (305mm)</td></tr> <tr> <td>Left/izquierda/gauche</td><td>11" (279mm)</td><td>11" (279mm)</td></tr> <tr> <td>Right/derecho/droite</td><td>0" (0mm)</td><td>0" (0mm)</td></tr> <tr> <td>Rear/posterior/arrière</td><td>0" (0mm)</td><td>0" (0mm)</td></tr> </tbody> </table> LA-39121  LA-39150		Combustibles	Non-combustibles	Top/rope/haut	12" (305mm)	12" (305mm)	Left/izquierda/gauche	11" (279mm)	11" (279mm)	Right/derecho/droite	0" (0mm)	0" (0mm)	Rear/posterior/arrière	0" (0mm)	0" (0mm)	WARNING Fire Hazard For use only on noncombustible surfaces. Maintain the correct clearances to combustibles.
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Right/derecho/droite	0" (0mm)	0" (0mm)															
Rear/posterior/arrière	0" (0mm)	0" (0mm)															
9	 LA-38911	Drain water connection point.															

10	 LA-38909	Treated, drinkable water connection point.
11	 LA-26378	Every Alto-Shaam product is precision calibrated prior to release from the factory to ensure accurate temperature control.
12		Security seal
13	 LA-38852	Note: This label is only used on UL-certified appliances that have 120V to ground wiring. Use _____ AWG for supply connections. Use only copper wires suitable for temperatures less than or equal to 90 °C. Do not connect to a circuit operating at more than 150 VAC to ground. For use on individual branch circuits only.
14	 LA-38990	WARNING Electric Shock Hazard To reduce the risk of electric shock, do not remove or open cover. No user-serviceable parts inside. Refer servicing to qualified personnel. Qualified personnel: Disconnect power before servicing.

15	 	WARNING Electric Shock Hazard Appliances with permanent electrical connection that are mounted on casters must be secured to building structure. Read installation instructions.
16		WARNING Electric Shock Hazard Use the correct fuse of the specified type, current, and voltage rating.
17		Oven light: 12V, 20W max.
18		WARNING. For continued protection against fire and electrical shock, replace only with UL listed 600V max., nonrenewable fuses shown below. Class 5x20mm: F1, F2 =10A Note: Fuses listed but not on schematic may be ignored.
19		Equipotential stud
		Consult instructions for operation and use.

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Dimension Drawings



How to Receive the Appliance

Responsible parties

When an Alto-Shaam® preferred carrier is used, shipping damage is a matter between Alto-Shaam and the carrier. In such cases, contact Alto-Shaam customer service.

When an Alto-Shaam non-preferred carrier is used, shipping damage is a matter between the carrier and the consignee. In such cases, the carrier is assumed to be responsible for the safe delivery of the merchandise, unless negligence can be established on part of the shipper.

Receive the appliance

When receiving the appliance, do the following.

Step	Action
1.	Inspect the equipment while it is still in the truck or immediately after it is moved to the receiving area. Do not wait until after the equipment is moved to a storage area.
2.	Inspect and count all merchandise received. Do not sign a delivery receipt or a freight bill until you have done so.
3.	Note all damage to packaging and to the equipment on the carrier's receipt.
4.	Request the driver sign the delivery receipt. If the driver refuses to sign, make a note of this refusal on the delivery receipt.
5.	Write the following on the delivery receipt if the driver refuses to allow an inspection: Driver refuses to allow inspection of containers for visible damage.
6.	Contact the carrier immediately upon finding damage, and request an inspection. Follow the carrier's policies and procedures.

Alto-Shaam policy

It is the policy of Alto-Shaam to assist customers in collecting claims that have been properly filed and actively pursued. Alto-Shaam cannot, however, file damage claims, assume the responsibilities for damage claims, or accept deductions in payment for damage claims.

How to Unpack the Oven

Before you begin

Make sure you have:

- An appropriate lifting device and enough personnel to safely move and position the weight of the oven.
 - AR-7T: 361 lb (164 kg)
- Cutting tools to remove the packaging.

Unpack the oven

To unpack the oven, do the following.

Step	Action
1.	Remove banding before lifting the oven. Only lift the oven from the front.
2.	Remove the appliance from the carton or crate. Save all packing materials for inspection by the carrier.
 NOTE: Examine the appliance for damage. If the appliance has been damaged, do not use the appliance until it has been inspected by an authorized service provider. Contact your carrier or Alto-Shaam customer service.	
3.	Remove all protective film, packaging materials, and items from inside the appliance.
4.	Clean any detachable parts such as spits, baskets, and drip trays with hot, soapy water. Dry with a clean, lint-free cloth.
5.	Clean the interior and exterior of the appliance with a mild soap and water solution. Remove any detergent residue with a clean, damp cloth. Dry with a clean, lint-free cloth.
6.	Clean the appliance glass with glass cleaner or distilled vinegar.
7.	Re-install the spits and baskets.

Clean the oven

Result

The oven is now unpacked.

How to Connect the Wiring



WARNING: Electric shock hazard.

This procedure to be done only by qualified personnel familiar with local electrical codes.

Electrical connection



WARNING: Appliances without a cord provided by the factory must be equipped with a cord of sufficient length to permit the appliance to be moved for cleaning.

Always use the correct AWG/IEC wire size based on the electrical requirements for the appliance.



WARNING: To prevent serious injury, death, or property damage:

All electrical connections must be made by a qualified and trained service technician in accordance with applicable electrical codes.

This appliance must be adequately grounded in accordance with local electrical codes or, in the absence of local codes, with the current edition of the National Electrical Code ANSI/NFPA No 70. In Canada, all electrical connections are to be made in accordance with CSA C22 1, Canadian Electrical Code Part 1 or local codes.

CE-approved appliances include an equipotential-bonding terminal marked with the equipotential symbol. Provisions for earthing are to be made in accordance with IEC: 60335-1 section 27 or local codes.



WARNING: Electric shock hazard.

Power source must match voltage identified on appliance rating tag. The rating tag provides essential technical information required for any appliance installation, maintenance or repairs. Do not remove, damage or modify the rating tag.

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Regarding international models:

If the unit is not equipped with flexible cord and plug, an all-pole country approved disconnection device which has a contact separation of at least 3mm in all poles must be incorporated in the fixed wiring for disconnection. When using a cord without a plug, the green/yellow conductor shall be connected to the terminal which is marked with the ground symbol. If a plug is used, the socket outlet must be easily accessible. If the power cord needs replacement, use a similar one obtained from the distributor.

Hard-wired models:

Hard-wired models must be equipped with a country-certified, external, all-pole disconnection switch with sufficient contact separation. Hard-wired models that are mounted on casters must have a strain relief device (tether) to prevent strain on the power supply cord. If a power cord is used for the connection of the product, an oil resistant cord like H05RN or H07RN or equivalent must be used.

NOTICE Where local codes and CE regulatory requirements apply, appliances must be connected to an electrical circuit that is protected by an external GFCI outlet.

Before you begin

Make sure the oven is disconnected from power.

Procedure

To connect the wiring to the oven, do the following.

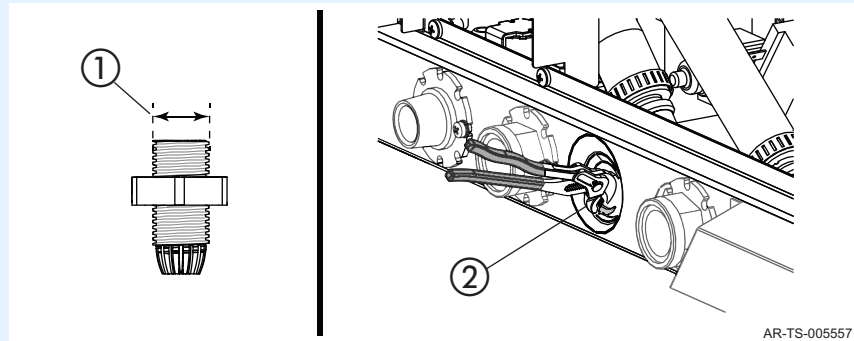
Step	Action
1.	Remove the left side service panel. The diagram illustrates a side view of the oven unit with its left service panel removed. The panel is shown detached and leaning against the unit, revealing the internal wiring and components. The unit is mounted on casters.

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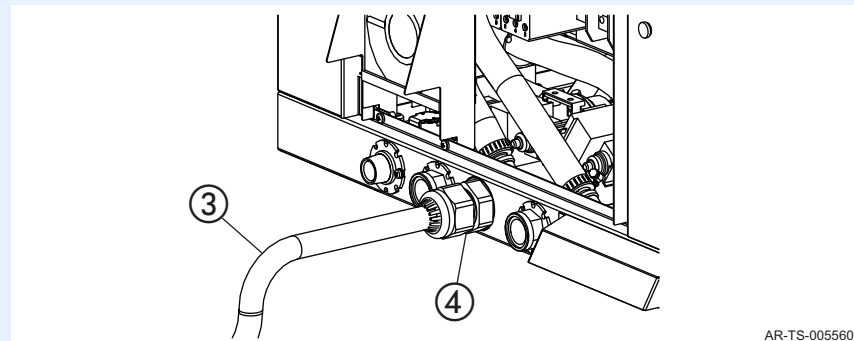
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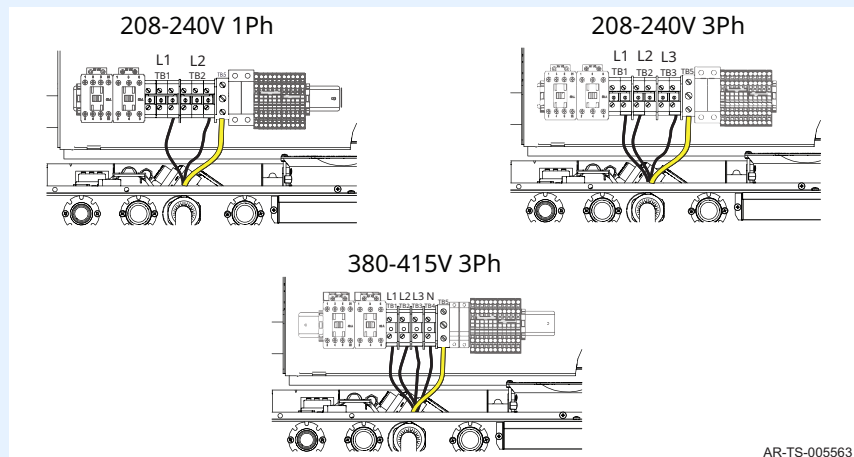
2. **Measure** the diameter of the cord grip ①.
Remove the knock out ② from the connection panel.



3. **Install** the cord ③ through the cord grip ④ and to the oven.



4. **Connect** the supply cord to the appropriate terminals (L1, L2, L3, N, etc.) in accordance with local codes and regulations.



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5. **Install** the ground wire.
Leave an extra loop so that current-carrying conductors become taut before the ground wire if the cord is accidentally pulled. Follow applicable regulations.
6. **Adjust** the cord length. Tighten the cord grip sealing nut onto the supply cord.
7. **Re-install** the left side panel.

Result

The wiring is now connected to the oven.

How to Install the Water Supply and Drain

Before you begin



NOTE: Refer to the detailed instructions that come with the installation kit.

NOTICE

Significant damage to the appliance cavity, elements, or heat exchanger could result from improper water quality. Failure to meet the water quality requirements will void the warranty.

Make sure

- The supply lines are flexible to allow the oven to be moved when service or cleaning is needed.
- For units under IEC / EN jurisdiction: This appliance is intended to be permanently connected to the water mains. Comply with local codes when installing this appliance.
- The incoming water supply is shut off when the oven is not being used.

Requirements

Water requirements for automatic cleaning option:

- One (1) water inlet, drinking quality (treated)
- Treated water line: 3/4" NPT connection
- Water temperature range: 50°–140°F (10°–60°C)
- Line pressure: 30 psi (200 kPa) min; 90 psi (1000 kPa) max.
- Two (2) gallons per minute minimum flow
- One (1) 3/4" ID water supply shut-off valve and back-flow preventer per rotisserie where required by local code
- Water drain: 3/4" NPT connection with air gap at floor. Materials must withstand temperatures up to 200°F (93°C)
- Floor drain within 3' (914mm) of rotisserie. Drain may not be directly below rotisserie unless rotisserie is on a stand with solid top/solid shelf to block steam.

The owner/operator is responsible for water quality meeting standards below. Non-compliance may damage oven and void warranty. Use Alto-Shaam R-O system to treat water.

Contaminant	Inlet water requirement
Free Chlorine	less than 0.2 ppm (mg/L)
Hardness	30–170 ppm
Chloride	less than 50 ppm (mg/L)
pH	7.0–8.5
Silica	less than 12 ppm (mg/L)
Total Dissolved Solids (TDS)	50–125 ppm
Chloramine	less than 0.2 ppm (mg/L)

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Installing the water supply

To install the water supply, do the following.

Step	Action
1.	Flush the water line at the installation site.
2.	Install adequate backflow protection to comply with applicable federal, state, and local codes.
3.	Apply Teflon® tape at all connection points.
 NOTE: It is not recommended to use a pipe sealing compound.	
4.	Install a manual water shut-off valve between the water supply line and the rotisserie.
5.	Connect the water supply to the water inlet.

Water inlet requirements

- 50 ft. (15.24m) maximum run
- Bends
 - 4 at 90° maximum, 2 at 45° maximum
- Horizontal runs
 - 1" (25mm) per 10 ft. (3,048mm)
- No air vent required
- 1" (25mm) air gap at drain
- Do not block the access panel
- Do not block the grease valve
- Piping materials must withstand temperatures up to 200°F (93°C)

Continued on next page

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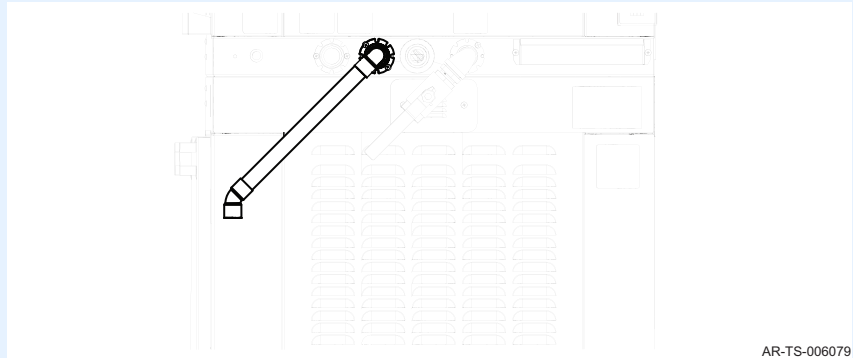
Installing the water drain

To install the water drain, do the following.

6. **Install** the 45° elbow onto a piece of pipe.

Cut the pipe to a length that places the elbow in-line with the rear corner panel of the oven.

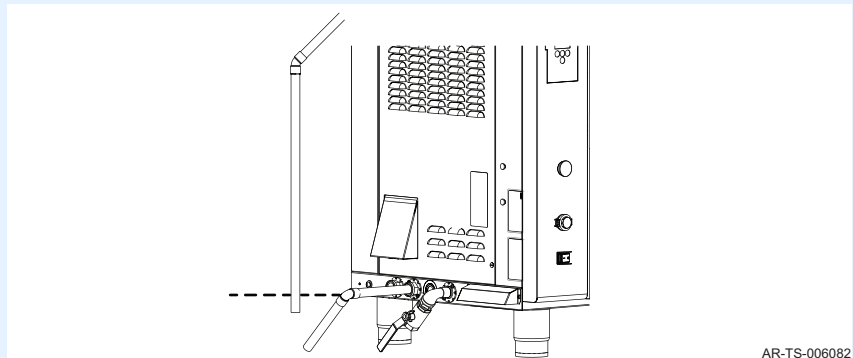
Install the pipe assembly into the 90° elbow.



AR-TS-006079

7. **Cut** a piece of pipe to a length that places the end of the pipe below the bottom of the oven.

Install the pipe assembly into the 45° elbow.



AR-TS-006082

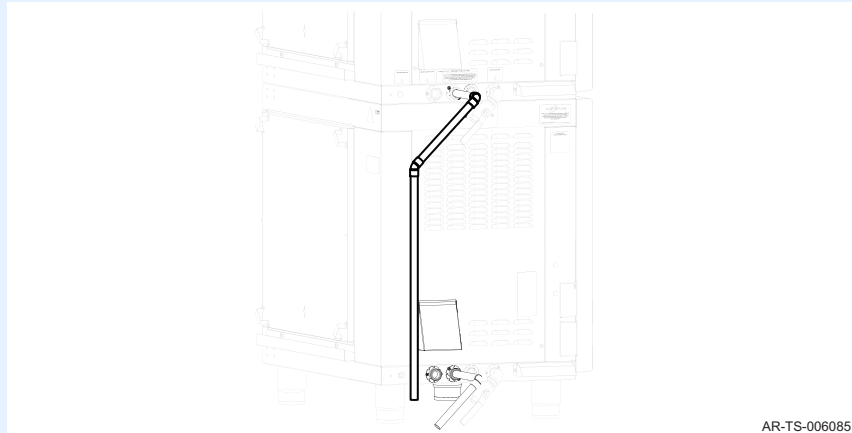
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8. **Run** additional drain pipe to the floor drain.



NOTE: The floor drain should be within 3' (914mm) of the oven, not directly underneath of where the oven is installed.



AR-TS-006085

Result

The water supply and drain are now installed.

How to Install the Liquid Cleaner

Before you begin



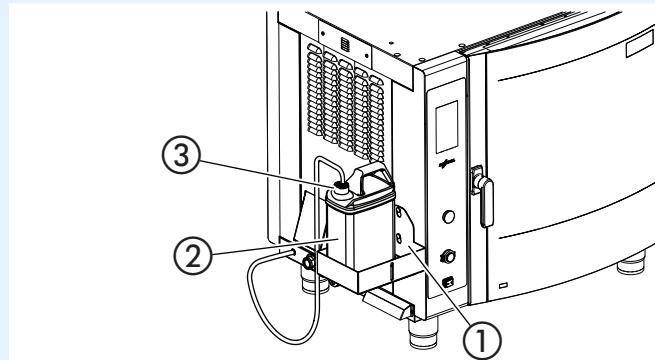
WARNING: Burn hazard.

Wear protective gloves, protective clothing, eye protection, and face protection when handling oven cleaner.

Procedure

To install the liquid cleaner, do the following.

Step	Action
1.	Mount the cleaner support tray on the left exterior panel of the oven. Slide the slotted openings on the cleaner support tray ① over the mounting studs.
The cleaner support tray holds a 2-1/2-gallon (9.5 liter) bottle.	
2.	Place the liquid cleaner bottle ② inside the support tray.
3.	Pull the cleaner cap and tubing assembly ③ from the rear of the oven and screw the cleaner cap onto the liquid cleaner bottle.
4.	Position the cleaner cap so that the tubing assembly is not kinked after the cleaner cap is tightened. The liquid cleaner is automatically pumped through the system during each liquid cleaning cycle.



AR-TS-005575

Result

The liquid cleaner is now installed.

How to Install the Grease Collection System

Before you begin

The grease collection valve requires 6" (152mm) of vertical clearance. For counter-top installations, the legs should be set to a height of 6" (152mm).

The handle of the grease collection valve must be parallel to the side of the oven. Use enough Teflon® tape for a tight seal at the correct angle.

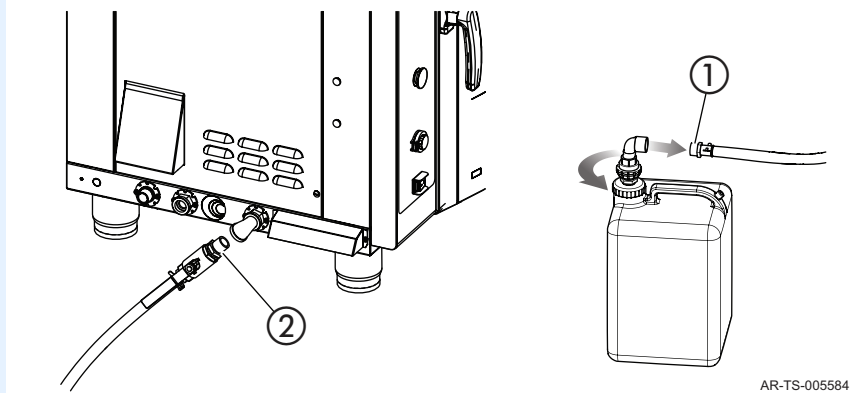
Procedure

To install the grease collection system, do the following.

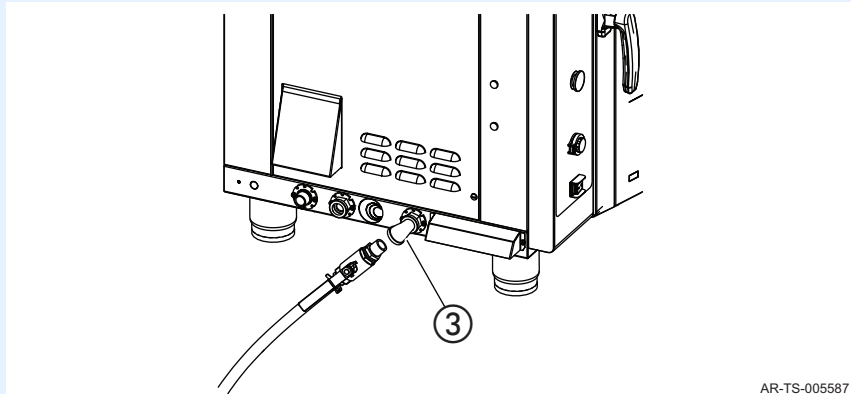
Step	Action
1.	Unpack the grease collection valve assembly and the grease collection container assembly.
2.	Apply Teflon® tape to the fittings on the grease collection hose ① and valve ②.
AR-TS-005584	
3.	Insert the valve into the elbow ③.
AR-TS-005587	

1. **Unpack** the grease collection valve assembly and the grease collection container assembly.

2. **Apply** Teflon® tape to the fittings on the grease collection hose ① and valve ②.



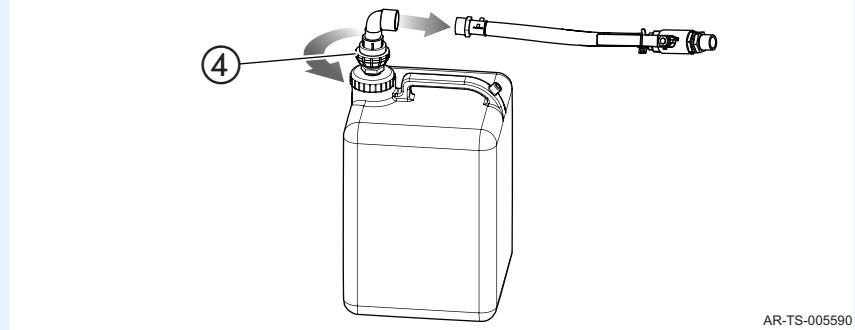
3. **Insert** the valve into the elbow ③.



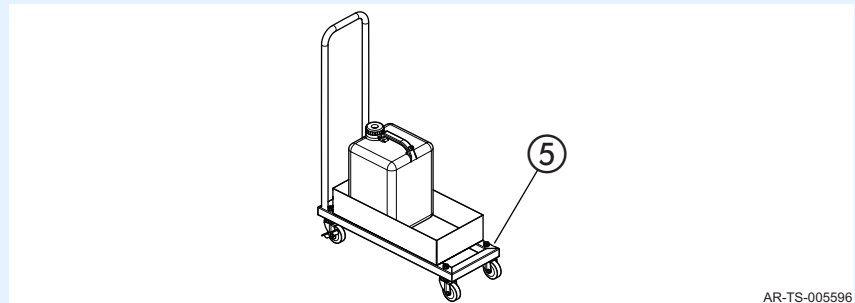
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4. **Loosen** the radial nut ④ on the grease collection container union.
Insert the taped fitting on the grease collection hose into the union fitting and turn until tight.



5. **Tighten** the radial nut on the grease collection container.
6. **Place** the grease collection container in an easily accessed location.
If you have purchased a Mobile Grease Collection Cart ⑤, roll it into place next to the oven and apply the caster brake.



Result

The grease collection system is now installed.

How to Install the Carousel

Before you begin

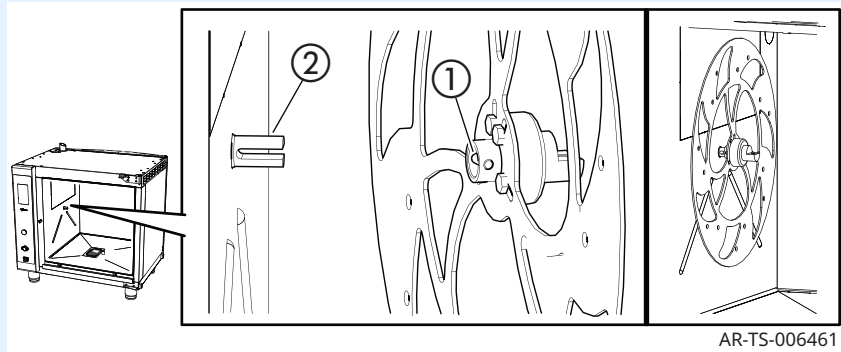
- Allow the oven to cool.
- Obtain protective gloves and wear them throughout the procedure.

Installation

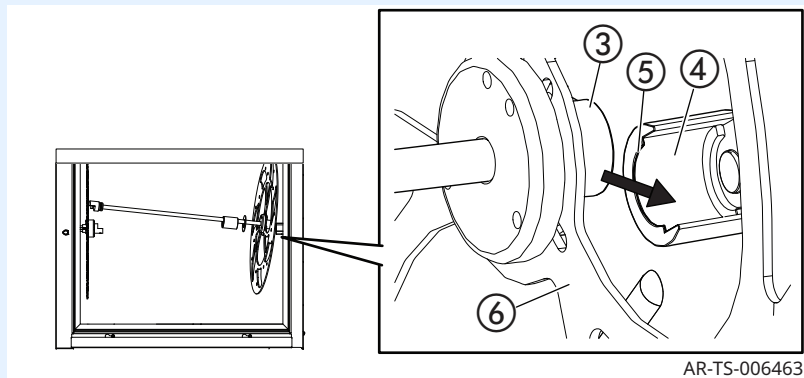
To install the carousel, do the following.

Step	Action
------	--------

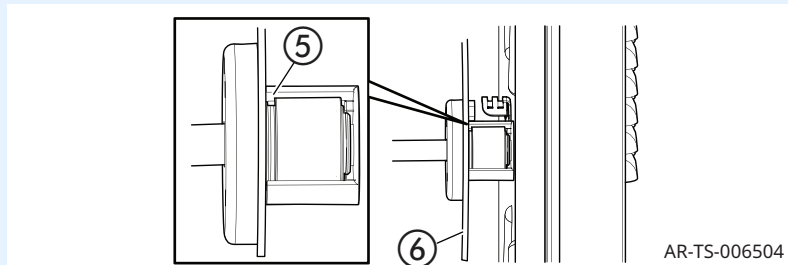
- | | |
|----|---|
| 1. | Align the pin ① in the drive hub ② with the slot in the drive shaft. |
|----|---|



- | | |
|----|---|
| 2. | Insert the bushing ③ into the cup ④. |
|----|---|



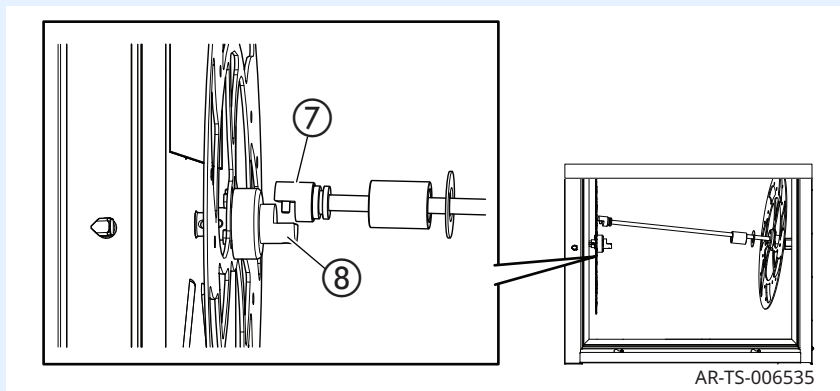
Be sure that the lip ⑤ of the cup is installed between the bushing and the disc ⑥.



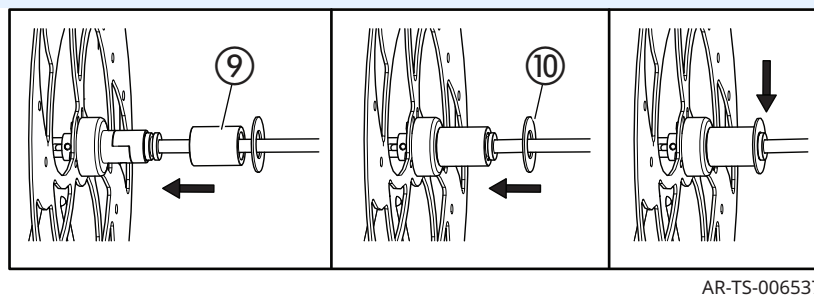
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3. **Align** the pin of the shaft coupler (7) with the hole in the drive hub coupler (8) and connect the coupler halves.



4. **Slide** the collar (9) over the coupler.



Slide the retaining ring (10) over the coupler and push it into the groove. Note that the retaining ring fits loosely in the groove and it may move as the carousel rotates.

Result

The carousel is now installed.

How to Remove the Carousel

Before you begin

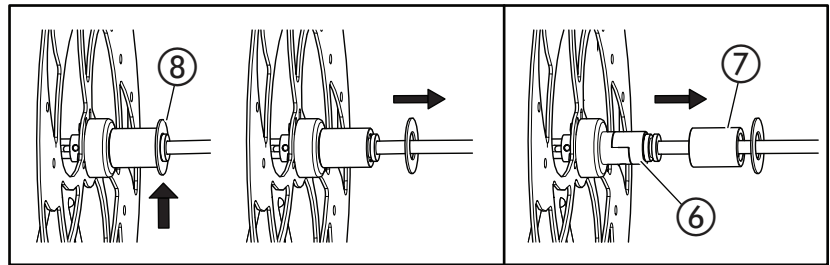
- Allow the oven to cool.
- Obtain protective gloves and wear them throughout the procedure.

Removal

To remove the carousel, do the following.

Step	Action
------	--------

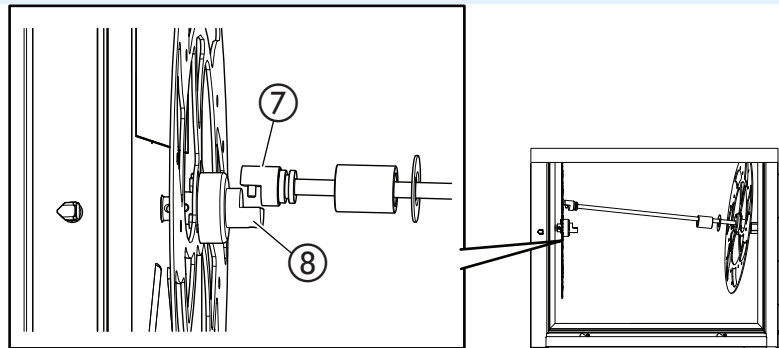
- | | |
|----|--|
| 1. | Pull the retaining ring (8) out of the groove and slide it away from the coupler. |
|----|--|



AR-TS-006546

Slide the collar (7) off the coupler (6).

- | | |
|----|---------------------------------------|
| 2. | Disconnect the coupler halves. |
|----|---------------------------------------|

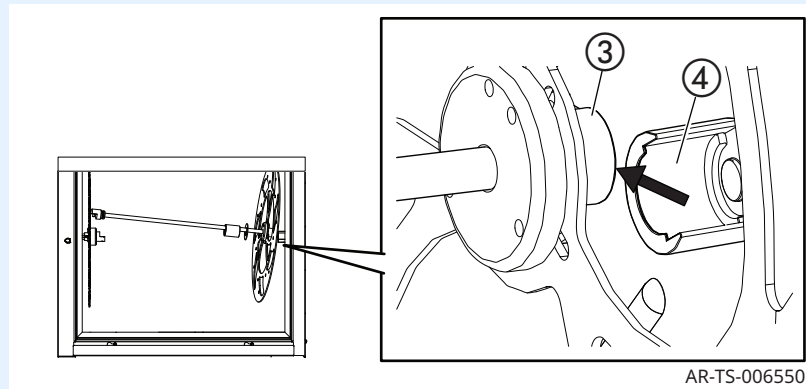


AR-TS-006535

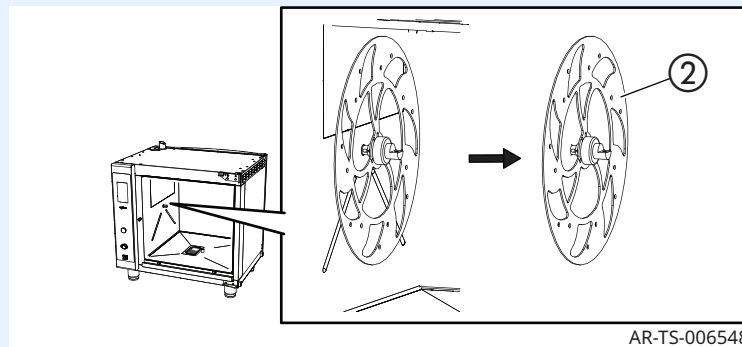
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3. **Remove** the bushing ③ from the cup ④ and lift the carousel out of the oven.



4. **Slide** the disk ② off the drive hub.



Result

The carousel is now removed.

How to Turn On and Turn Off the Oven

Before you begin

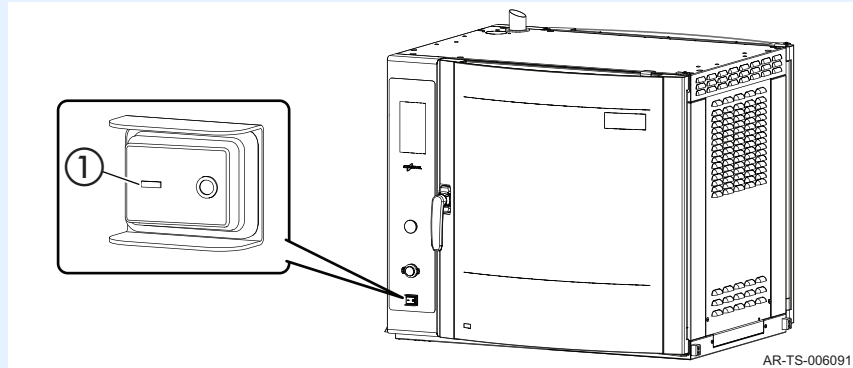
The oven must be connected to electric power.

Turning on the oven

To turn on the oven, do the following.

Step	Action
------	--------

- | | |
|----|---|
| 1. | Set the power switch to the ON (I) position ①. |
|----|---|



The oven is now on.

Turning off the oven

To turn off the oven, do the following.

Step	Action
------	--------

- | | |
|----|--|
| 1. | Set the power switch to the OFF (0) position. |
|----|--|

The oven is now off.

How to Preheat the Oven for Professional Cooking Mode

Before you begin

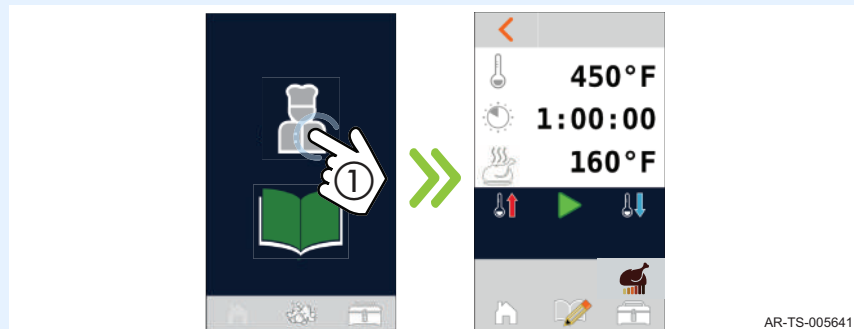
Make sure:

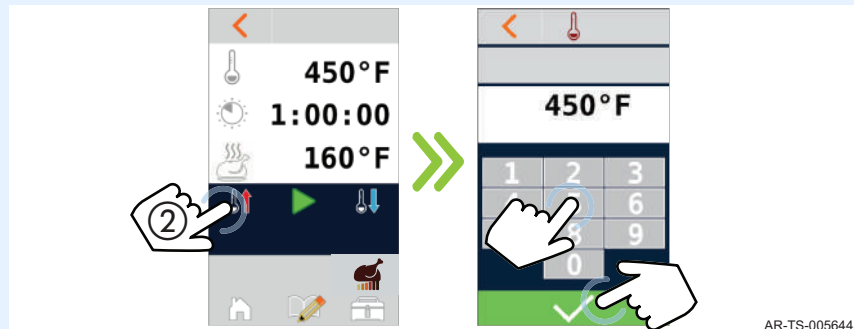
- The oven is turned on.
- The oven door is closed.

Procedure

To preheat the oven, do the following.

Step	Action
1.	Touch the professional cooking mode icon ①. The professional cooking mode screen displays.
2.	Touch the preheat icon ②. The enter preheat temperature screen displays. Enter the temperature using the number pad. Touch the green check mark. The oven starts the preheat process.



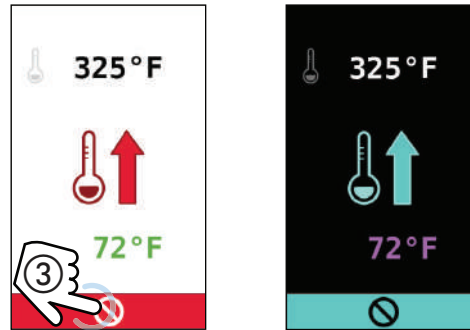


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Preheat progress

The screen indicates the progress towards reaching its set temperature.



AR-TS-005738

The screen displays the actual temperature and its set temperature. Touch the cancel icon ③ to cancel the preheat process, if necessary.



NOTE: If the oven door is open, the screen will display the color inverted. The preheat process will not begin until the oven door is closed.

Result

The oven is preheating. When the preheat process is complete, the oven sounds an alert.

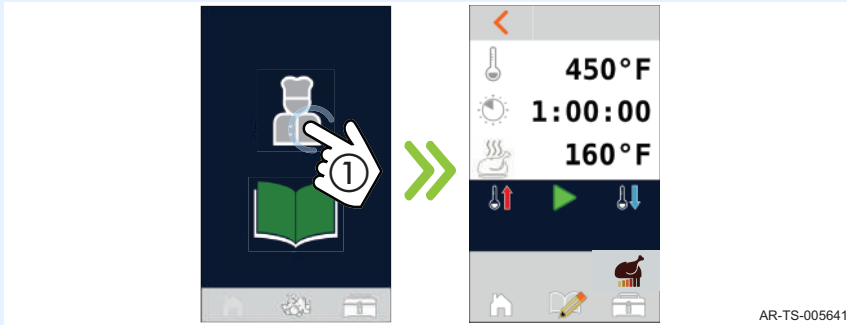
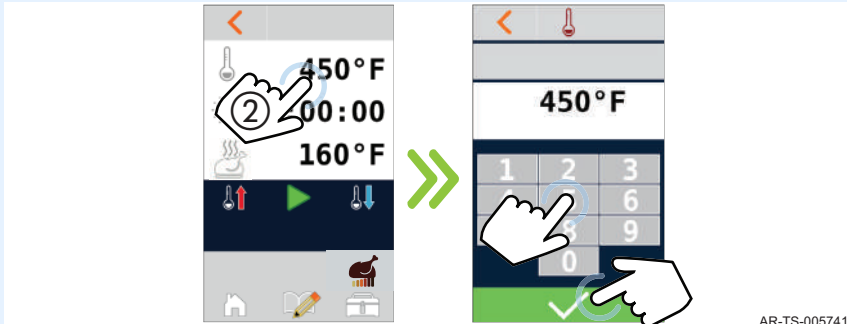
How to Use Professional Cooking Mode

Before you begin

- **Make sure** the oven is preheated. See topic *How to Preheat the Oven for Professional Cooking Mode*.
- Be sure your food is prepared and ready to cook.

Procedure

To cook in professional cooking mode, do the following.

Step	Action
1.	Touch the professional cooking mode icon ①. The professional cooking mode screen displays.  AR-TS-005641
2.	Touch the temperature setting ②. Enter the cooking temperature using the number pad. Touch the green check mark.  AR-TS-005741

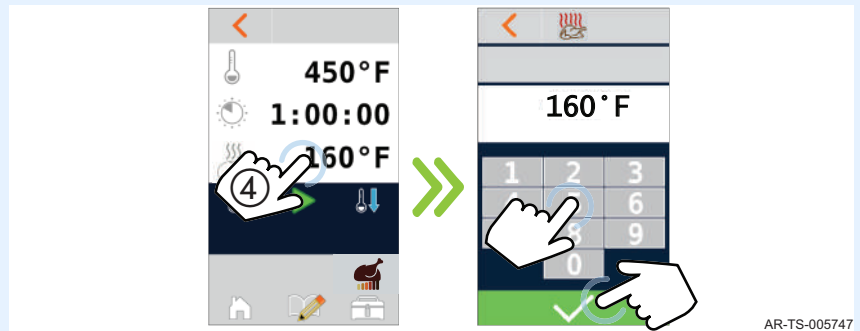
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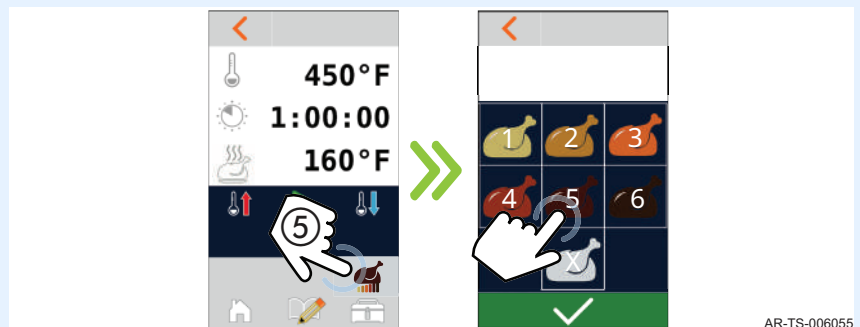
3. **Touch** the time setting ③. **Enter** the cooking time using the number pad. **Touch** the green check mark.



4. **Touch** the hold temperature setting ④. **Enter** the hold temperature using the number pad. **Touch** the green check mark.



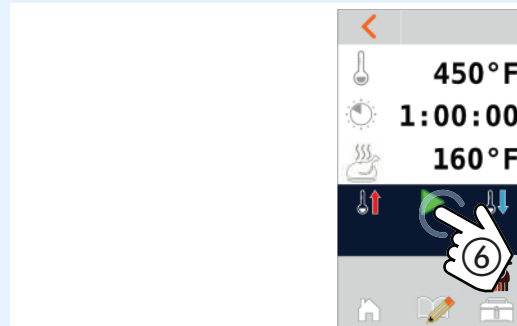
5. **Touch** the browning level icon ⑤. The browning screen displays. **Touch** the browning level; 1 through 6 or "X" for no browning.



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6. **Touch** the start icon ⑥ to begin cooking.

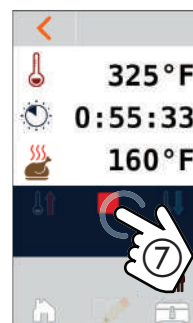


AR-TS-005750

During the cooking process

The remaining time appears next to the cook time icon. Touch the cook time icon to view the set cook time. The set time displays in green for five (5) seconds.

Press and hold the red stop icon ⑦ for three (3) seconds before the time expires to stop the cooking process, if necessary.



AR-TS-005753

Result

At the end of the cooking process, the oven sounds an alert. Then, the oven holds the food at the set holding temperature.

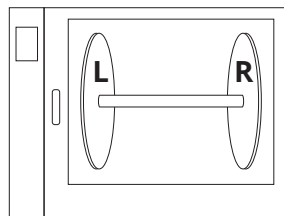
Spit Configurations

Before you begin

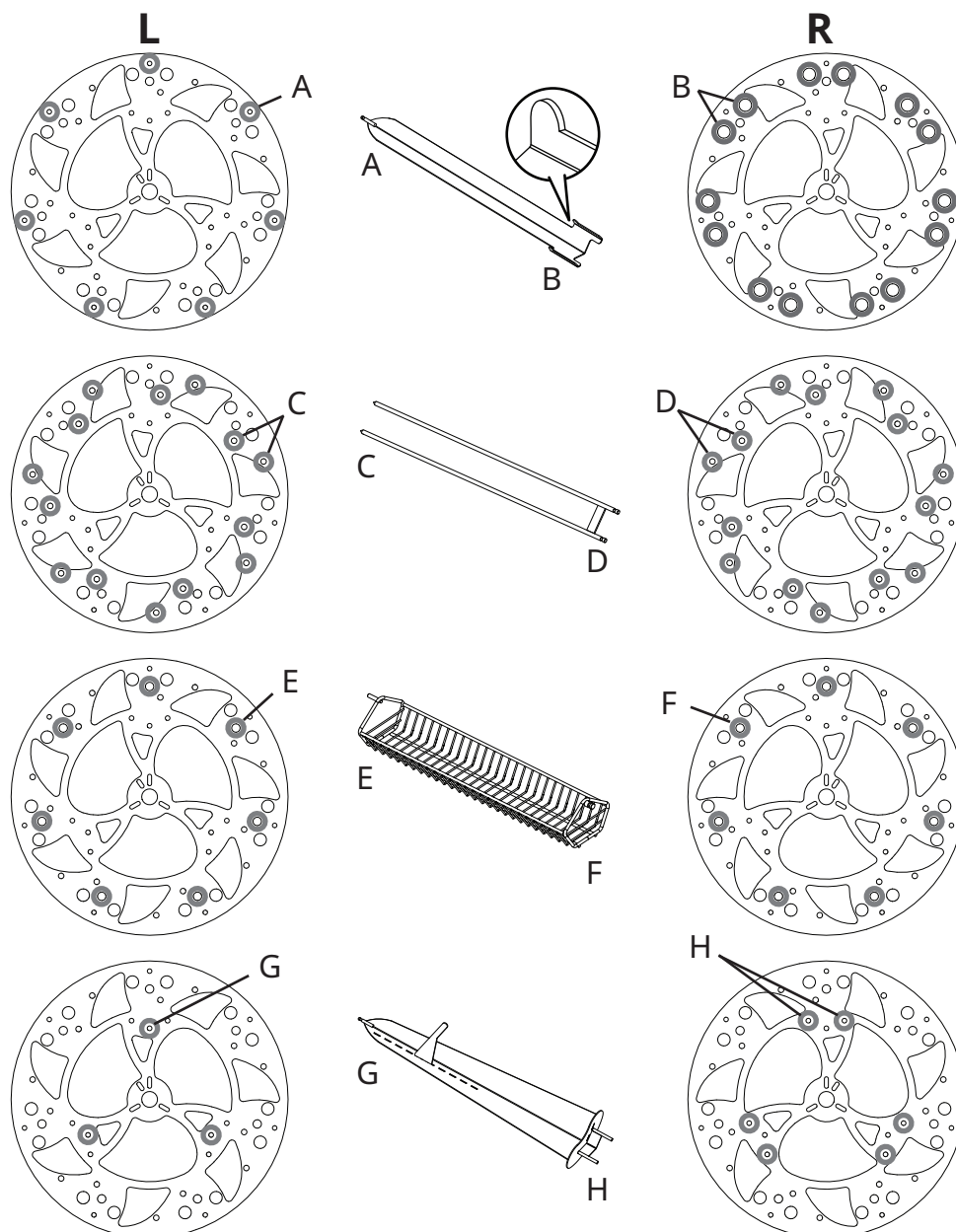
Make sure:

- You have identified two matching disks.
- The disks are installed into the oven.

All-Options 7-spit disk



The spits fit into the disks as follows:

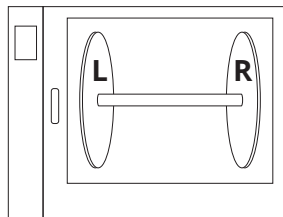


AR-TS-006295

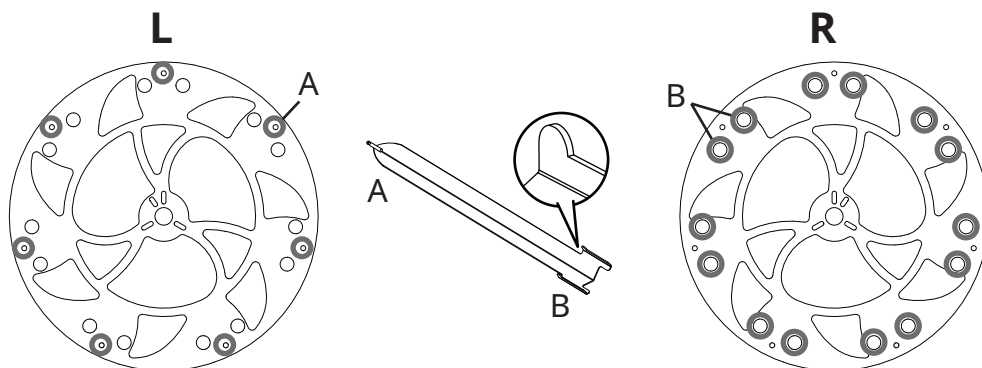
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Standard 7-spit disk

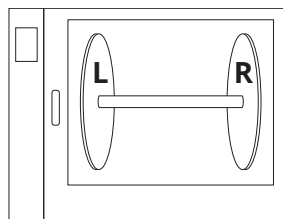


This is the typical spit-disk combination that is shipped with the unit. The spits fit into the disks as follows:

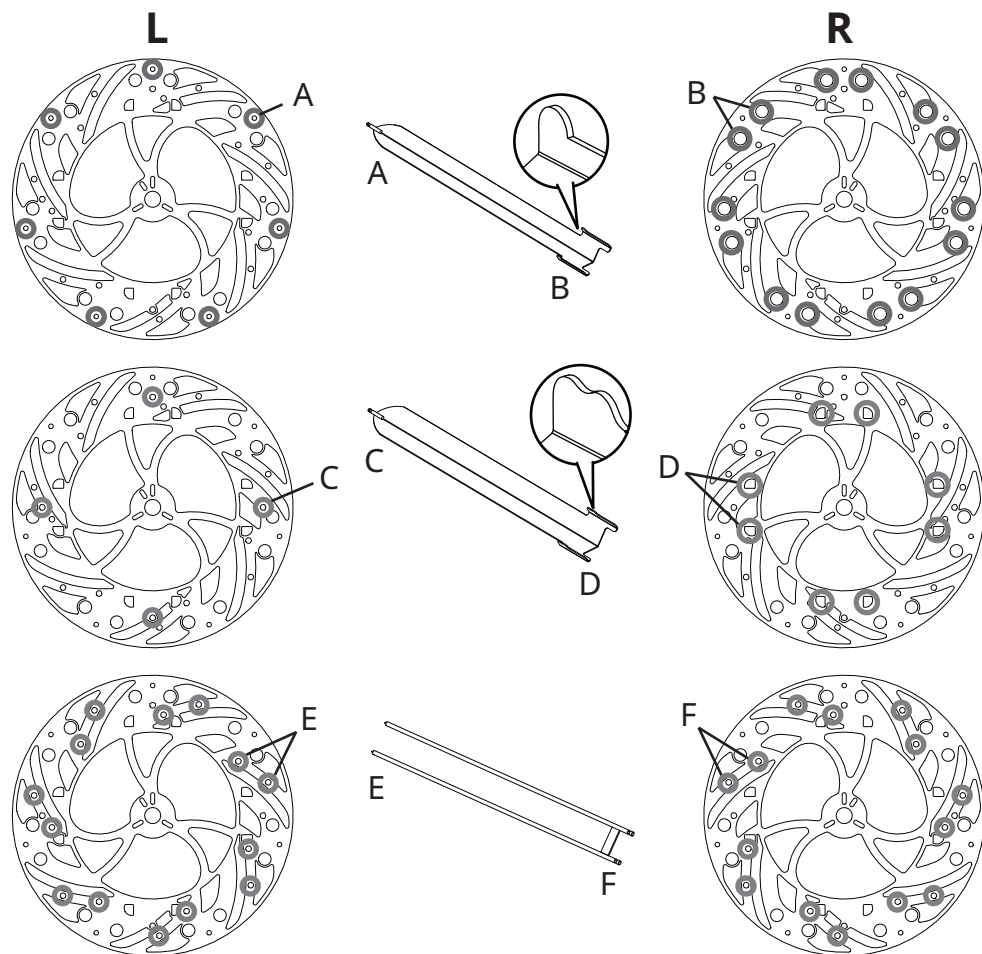


AR-TS-006293

Large V-spit disk



The spits fit into the disks as follows:

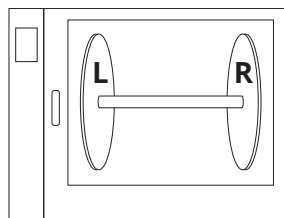


AR-TS-006297

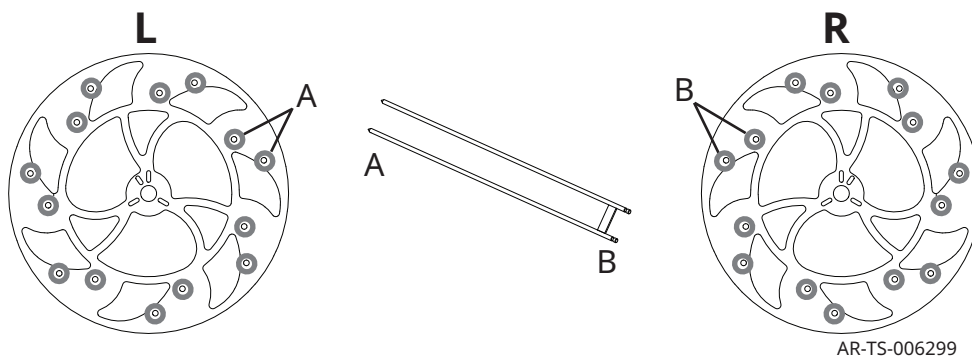
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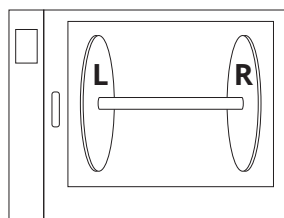
7-spit piercing only



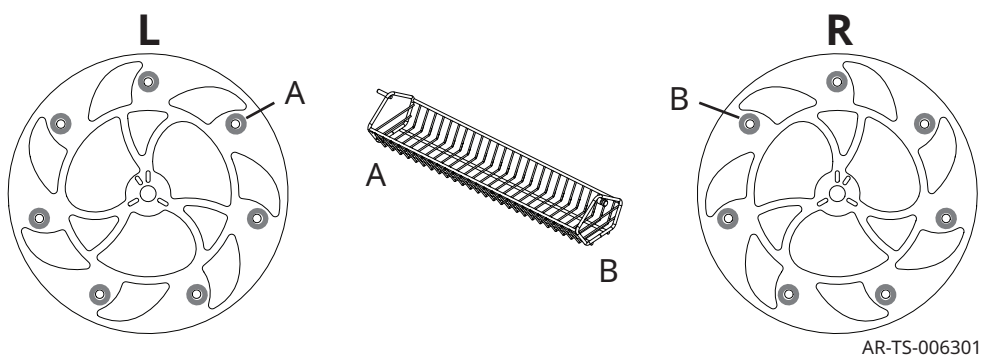
The spits fit into the disks as follows:



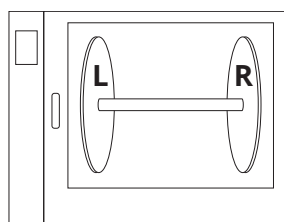
Baskets only



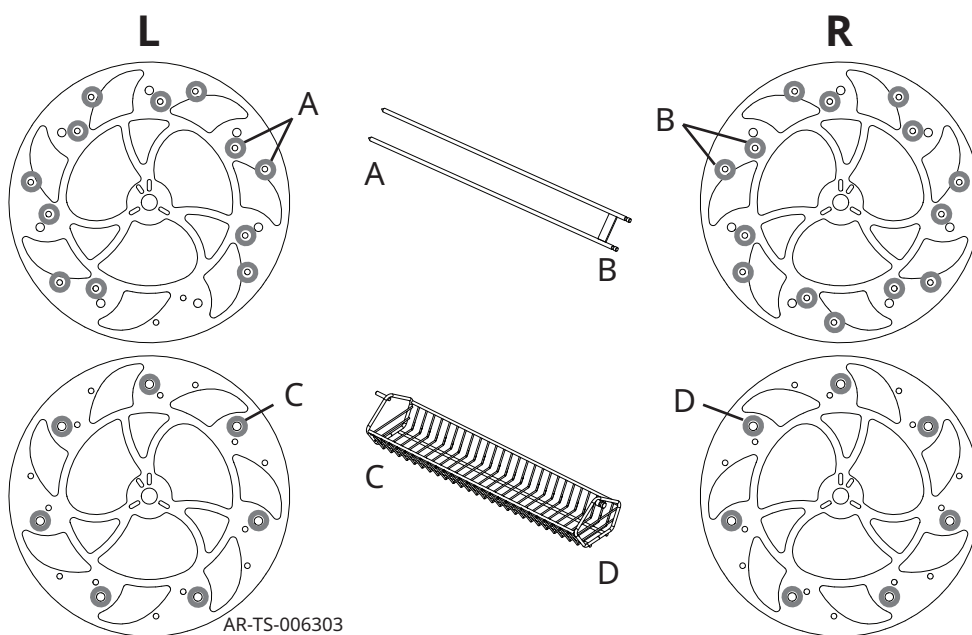
The spits fit into the disks as follows:



Baskets and piercing



The spits fit into the disks as follows:



How to Load the Spits

Before you begin

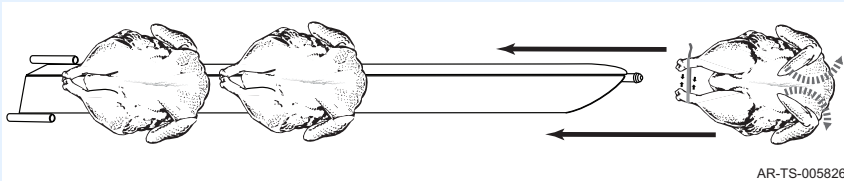
Make sure:

- The oven is turned on.
- The oven has completed preheating.
- You have food products ready to be cooked.

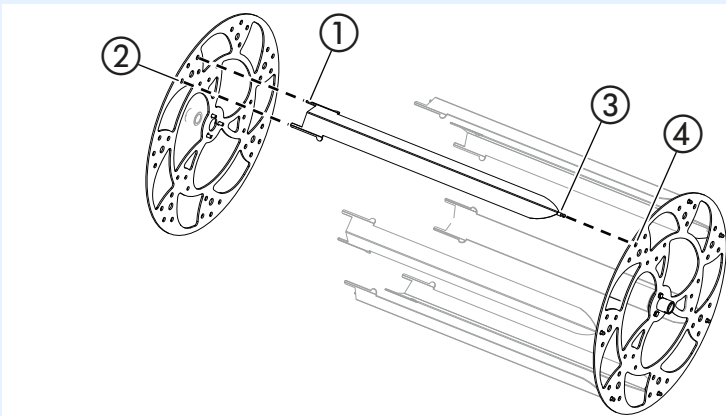
Standard angled V-spits

To load standard angled V-spits, do the following.

Step	Action
1.	Insert whole chickens with the legs facing the square end of the spit. Load three (3) 3-1/2 lb (1,6 kg) chickens per spit for a maximum capacity of 21 whole chickens or load four (4) 2-1/2 lb (1,1kg) chickens for a maximum capacity of 28 whole chickens. AR-TS-005826
NOTE: When loading less than maximum capacity, chickens must be staggered evenly on the spits.	
2.	Insert the two-prong, square end ① into the two holes ② on the drive disk. AR-TS-005829
3.	Insert the tapered, ridged-prong end ③ into the top hole ④ on the opposite side.



NOTE: When loading less than maximum capacity, chickens must be staggered evenly on the spits.

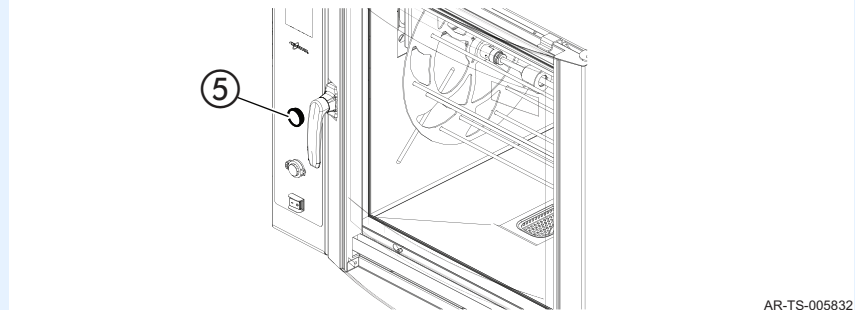


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4. **Rotate** the rotisserie spit assembly using the jog button ⑤.

Load the spits one at a time and every disk location. This is done to maintain balance within the rotisserie.

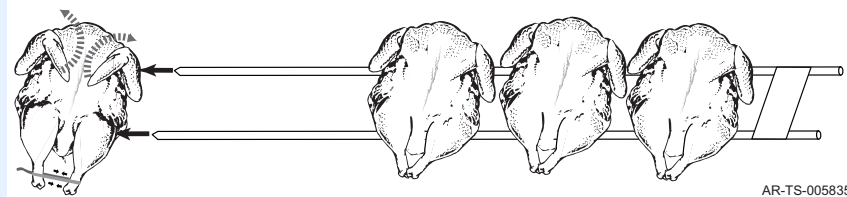


AR-TS-005832

Optional piercing spits

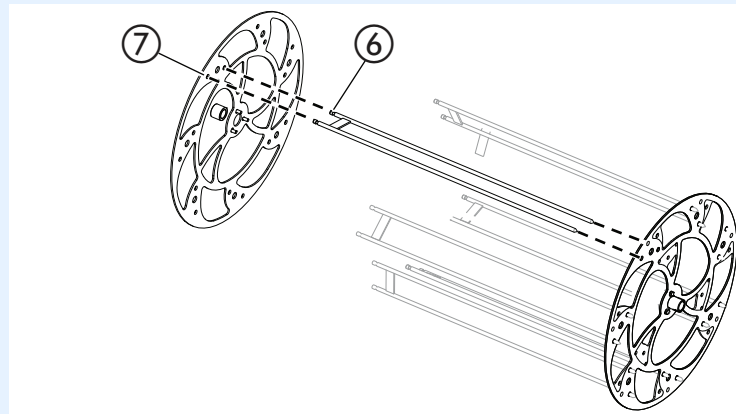
To load optional piercing spits, do the following.

5. **Load** a maximum of three (3) 3-1/2 lb (1,6 kg) or four (4) 2-1/2 lb (1,1 kg) whole chickens per piercing spit.



AR-TS-005835

6. **Insert** the spits ⑥ in the drive disk ⑦.



AR-TS-005838

Load the spits one at a time and as evenly spaced as possible. This is done to maintain balance within the rotisserie.

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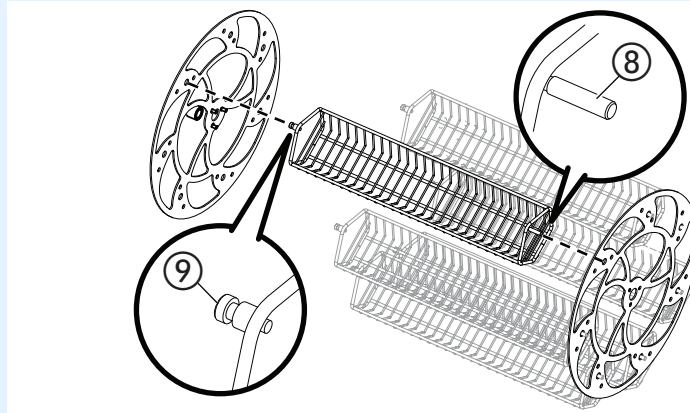
Optional baskets

To load optional baskets, do the following.

7. **Insert** the smooth pin end (8) in first when inserting the basket.



NOTE: Remove the machined pin (9) first when removing the baskets.



AR-TS-005841

8. **Load** the baskets one at a time and as evenly spaced as possible. This is done to maintain balance within the rotisserie.

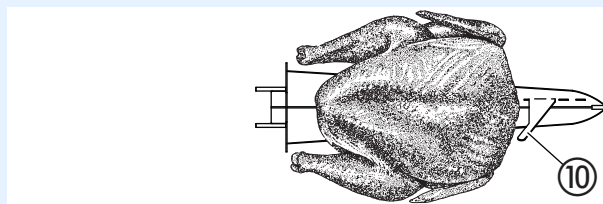
Optional turkey spits

To load optional turkey spits, do the following.

9. **Insert** the whole turkey with the legs facing the stop plate of the spit. **Adjust** the stopping tab (10) to keep the turkey in position.

Load one (1) turkey spit into the oven with a maximum weight of 25 lb (11.4 kg).

Use one (1) to three (3) turkey spits per oven for a maximum capacity of three (3) whole turkeys.



AR-TS-005844

Result

You have now loaded the spits.

How to Create a Recipe

Before you begin

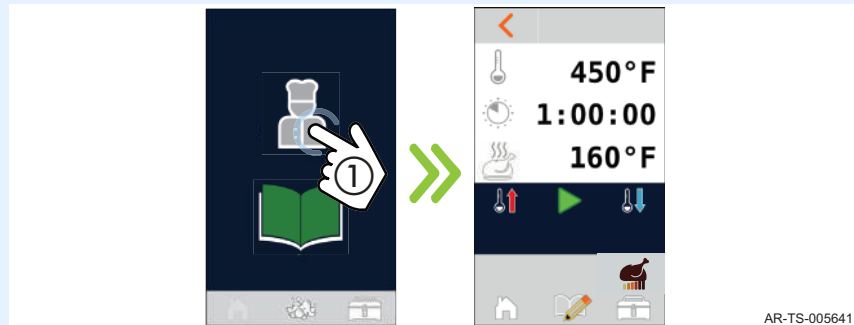
Make sure:

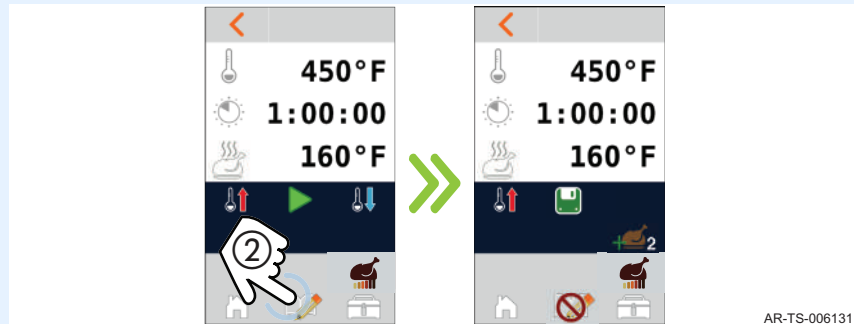
- The oven is turned on.
- The oven is idle and not in cook or clean sequence.

Creating a new recipe

To create a recipe, do the following.

Step	Action
1.	Touch the professional cooking mode icon ①. The professional cooking mode screen displays.
2.	Touch the write recipe icon ②. The write recipe screen displays.





NOTE: When the number of recipes has reached the maximum, the create recipe icon will be grayed out. An existing recipe must be deleted to create a new recipe.

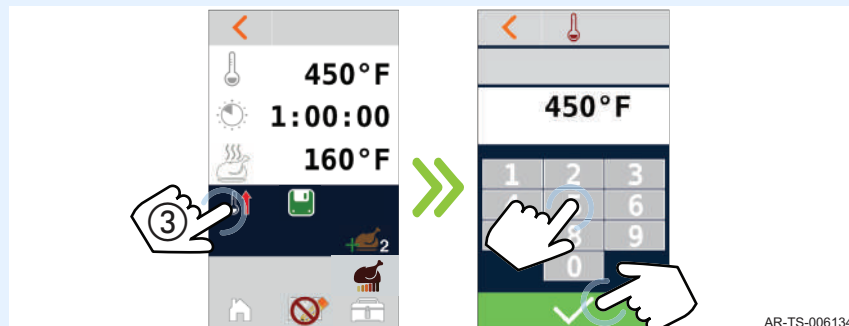
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Adding a preheat step

To add a preheat step to the recipe, do the following.

3. **Touch** the preheat icon ③. The enter preheat screen displays. **Enter** the preheat temperature using the number pad.
Touch the green check mark icon.

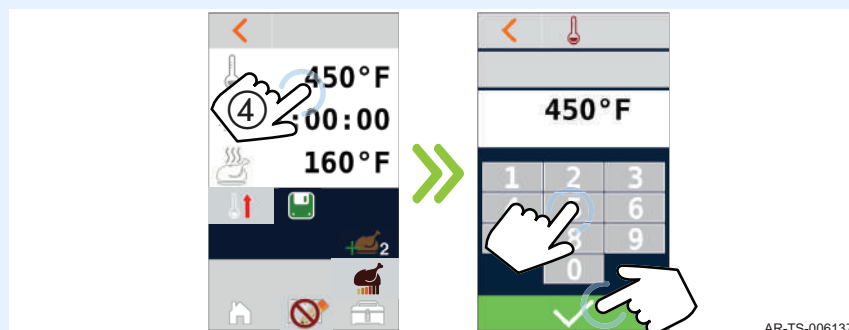


NOTE: A cool down step cannot be added to a recipe. The cool down icon does not appear in the create recipe screen.

Adding recipe settings

To add recipe settings, do the following.

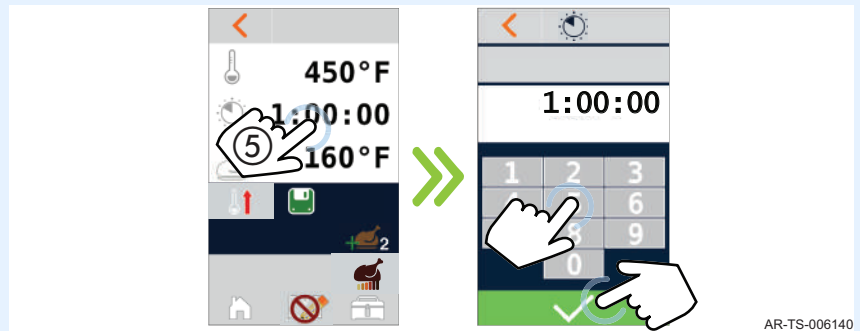
4. **Touch** the temperature setting ④. **Enter** the cooking temperature using the number pad.
Touch the green check mark.



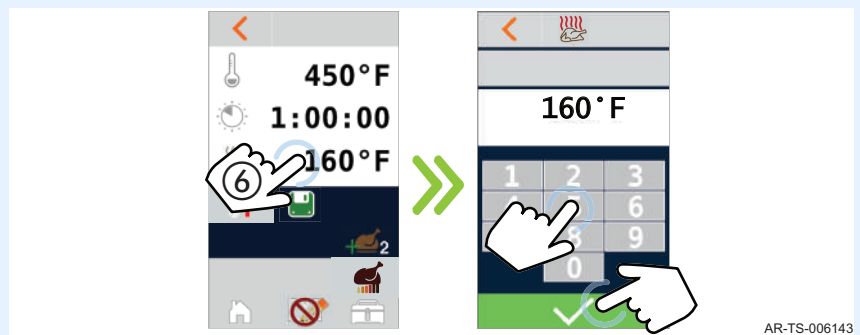
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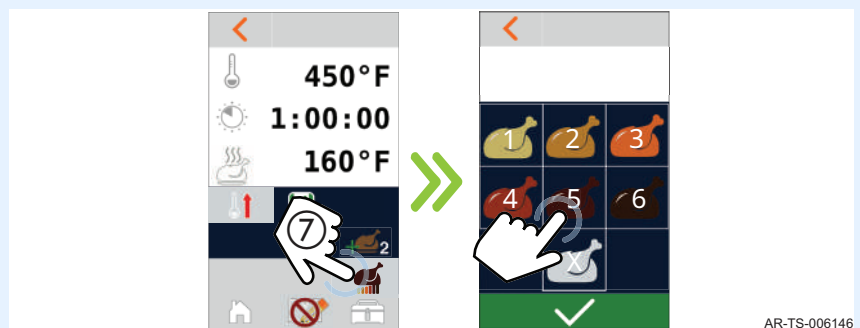
5. **Touch** the time setting ⑤. **Enter** the cooking time using the number pad.
Touch the green check mark.



6. **Touch** the hold temperature setting ⑥. **Enter** the hold temperature using the number pad.
Touch the green check mark.



7. **Touch** the browning level icon ⑦. The browning screen displays.
Touch the browning level 1-6 or X for no browning.



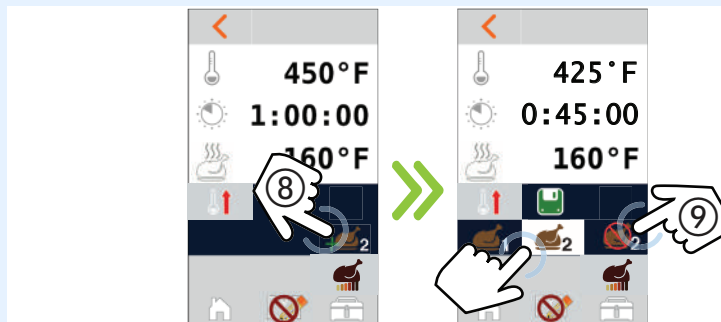
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Programing a multi-stage recipe

To program a multi-stage recipe, do the following.

8. **Touch** the multi-stage icon (8). **Select** a stage.
Set the time, temperature, and browning level for each stage.
Touch the cancel icon (9) to return to the single stage recipe settings.

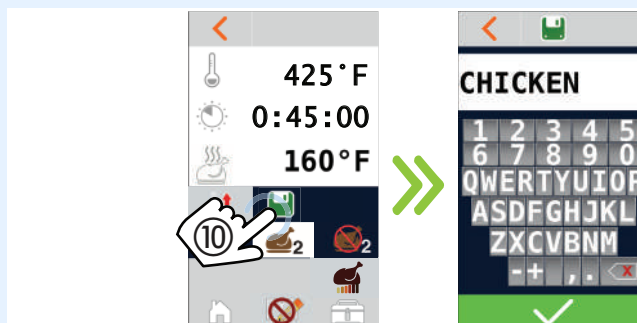


AR-TS-006149

Saving the recipe

To save the recipe, do the following.

9. **Touch** the save icon (10). **Enter** the recipe name. **Touch** the green check mark to save the recipe.



AR-TS-006152

Result

You have now created a recipe.

How to Cook with Programmed Recipes

Before you begin

Make sure:

- The oven is turned on.
- There is a recipe saved on the oven.
- Be sure your food is prepared and ready to cook.

Procedure

To cook using a programmed recipe, do the following.

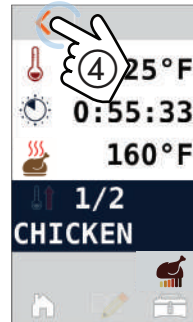
Step	Action
1.	Touch the cookbook icon ①. The recipe screen will display.  AR-TS-005756
2.	Navigate to the recipe using the arrows ②.  AR-TS-005759
3.	Touch the recipe listing ③. If the recipe includes a preheat step, the oven starts the preheat process. The oven sounds an alarm when the preheat process is complete.
4.	Open the door and load the food into the oven.
5.	Close the door. The oven starts cooking.

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During the cooking process

The screen displays the details on the current cook setting.



AR-TS-005762

Touching and holding the back arrow ④ for three (3) seconds stops the cooking process.

Result

At the end of the cooking process, the oven sounds an alert.

How to Cool Down the Oven

Before you begin

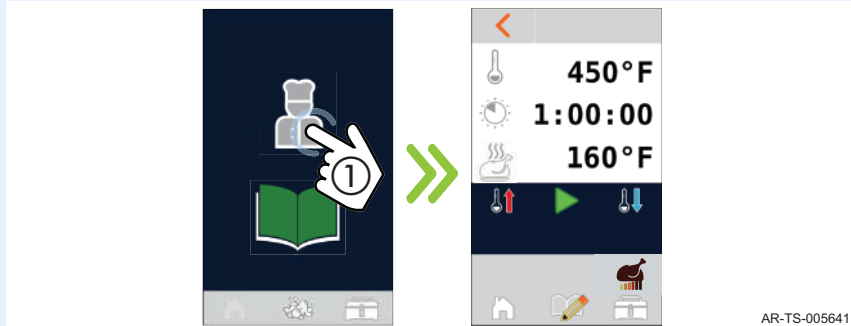
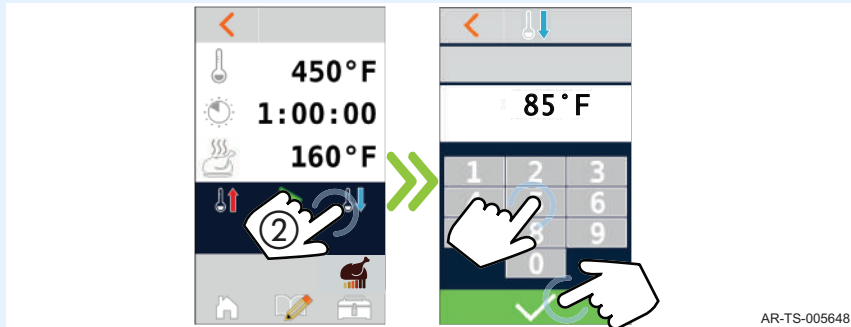
The cool down feature allows you to lower the temperature of the oven cavity at an accelerated rate. This is useful when you want to change from a high temperature cooking function to a lower temperature function or to prepare for cleaning. The minimum setting is 85°F (29°C).

Make sure:

- The oven is turned on.
- The oven door is open.

Procedure

To cool down the oven, do the following.

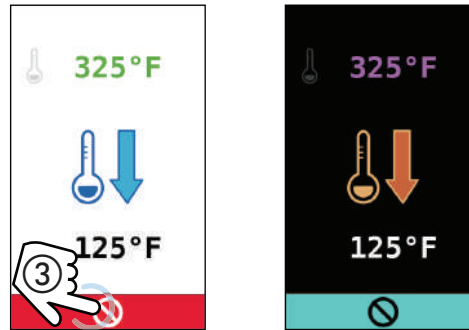
Step	Action
1.	Touch the professional cooking mode icon ①. The professional cooking mode screen displays.  AR-TS-005641
2.	Touch the cool down icon ②. The enter cool down temperature screen displays. Enter the temperature using the number pad. Touch the green check mark. The oven starts the cool down process.  AR-TS-005648

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Cool down progress

The screen indicates the progress towards reaching the cool down temperature.



The screen displays the actual temperature and its set temperature. Touch the cancel icon ③ to cancel the cool down process.



NOTE: If the oven door is closed, the screen will display in reverse. The cool down process will not begin until the oven door is opened.

Result

The oven is cooling down.

How to Delete a Recipe

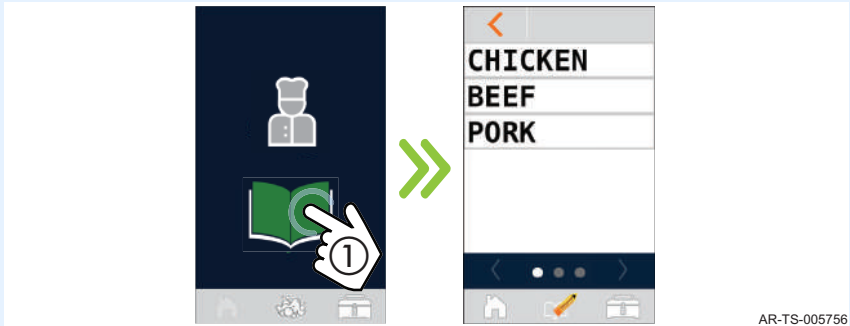
Before you begin

Make sure:

- The oven is turned on.
- The oven is idle and not in cook or clean sequence.

Procedure

To delete a saved recipe, do the following.

Step	Action
1.	Touch the cookbook icon ①. The recipe screen will display.  AR-TS-005756
2.	Touch the delete recipes icon ②. The delete recipes screen will display.  AR-TS-005768

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3. **Touch** the recipe ③ you want to delete.
Touch the delete icon ④.
Touch the save icon ⑤.



AR-TS-005771

4. **Touch** the home icon to return to the home screen.

Result

The recipe is now deleted.

How to Upload or Download Recipes

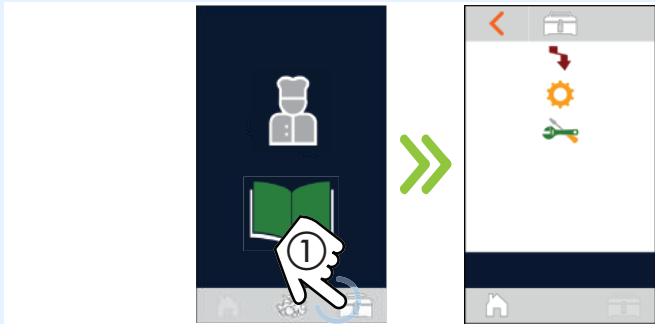
Before you begin

Make sure:

- The oven is turned on.
- The oven is idle and not currently in a cook or clean sequence.
- You have a USB drive.

Procedure

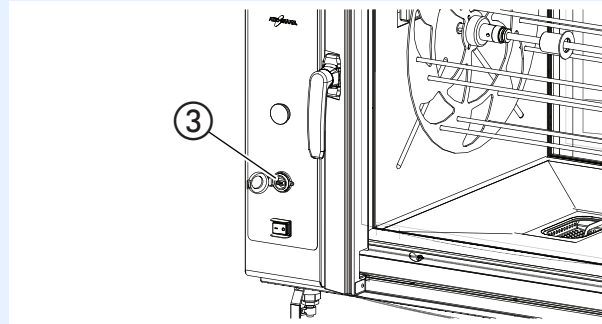
To upload or download recipes, do the following.

Step	Action
1.	Touch the utilities icon ①. The utilities screen displays.  AR-TS-005599
2.	Touch the upload/download icon ②. The upload/download screen displays.  AR-TS-005602

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3. **Insert** the USB drive into the port ③.



AR-TS-005774

4. **Touch** the upload recipes icon ④ or the download recipes icon ⑤.
The oven uploads or downloads the recipes. This takes a few seconds.



AR-TS-005606



NOTE: Downloaded recipes will overwrite existing recipes.

5. **Touch** the home icon to return to the home screen.
6. **Remove** the USB drive.

Result

You have uploaded or downloaded recipes.

How to Update the Software

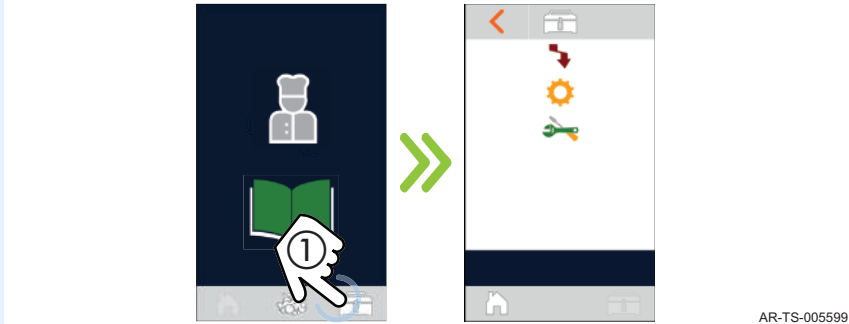
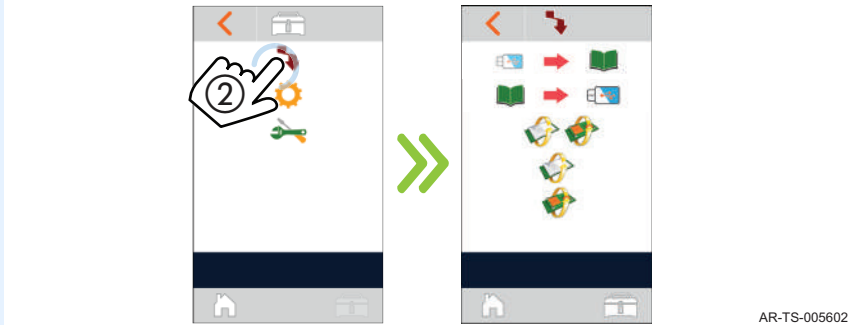
Before you begin

Make sure:

- The oven is turned on.
- The oven is idle and not currently in a cook or clean sequence.
- You do not remove the USB drive during the update process.
- You have a USB drive with the updated firmware.

Procedure

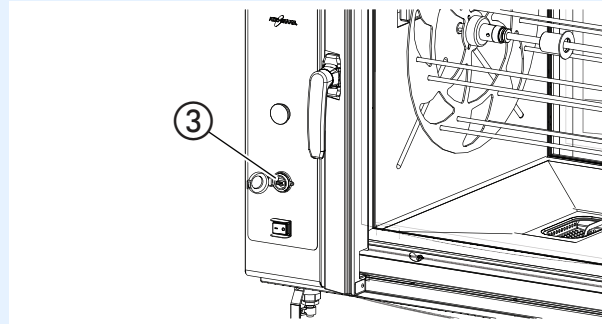
To update the software, do the following.

Step	Action
1.	Touch the utilities icon ①. The utilities screen displays.  AR-TS-005599
2.	Touch the upload/download icon ②. The upload/download screen displays.  AR-TS-005602

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3. **Insert** the USB drive into the port ③.

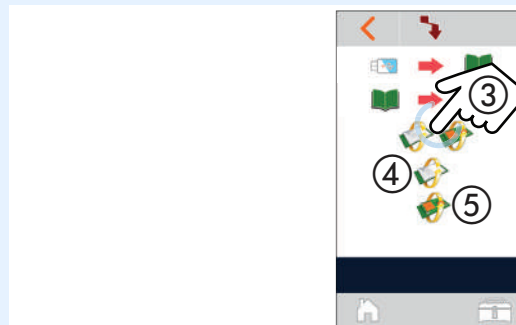


AR-TS-005774

NOTICE Do not remove the USB drive during the update process.

4. **Touch** the download new software icon ③ for the full oven update.
 - To update only the interface board, **touch** the interface board icon ④.
 - To update only the control board, **touch** the control board icon ⑤.

NOTE: After the software has been updated, the oven may automatically initiate a shut down and reboot sequence if required.



AR-TS-005611

5. **Remove** the USB drive.

Result

The oven's software has been updated.

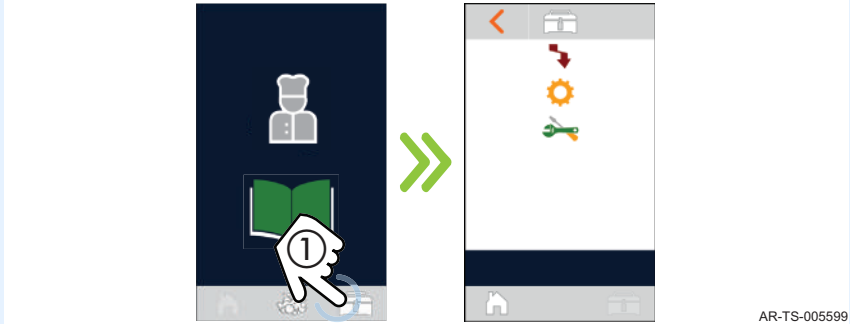
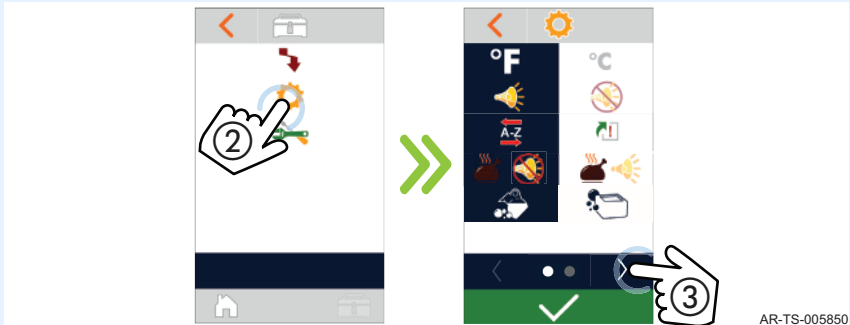
How to Calibrate the Screen

Before you begin

Make sure the oven is turned on.

Procedure

To calibrate the screen, do the following.

Step	Action
1.	Touch the utilities icon ①. The utilities screen displays.  AR-TS-005599
2.	Touch the settings icon ②. The settings screen displays. Touch the arrow icon ③ to view the second settings screen.  AR-TS-005850

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3. **Touch** the calibrate screen icon ④. The calibrate screen displays.



4. **Touch** the green check mark icon ⑤. The second calibrate screen displays.

5. **Touch** the plus sign icon ⑥ as it appears in each corner of the screen.
When all four corners have been touched, the start-up screen will appear briefly, then the display will return to the home screen.

Result

The screen has been calibrated.

How to Force Calibrate the Screen

Before you begin

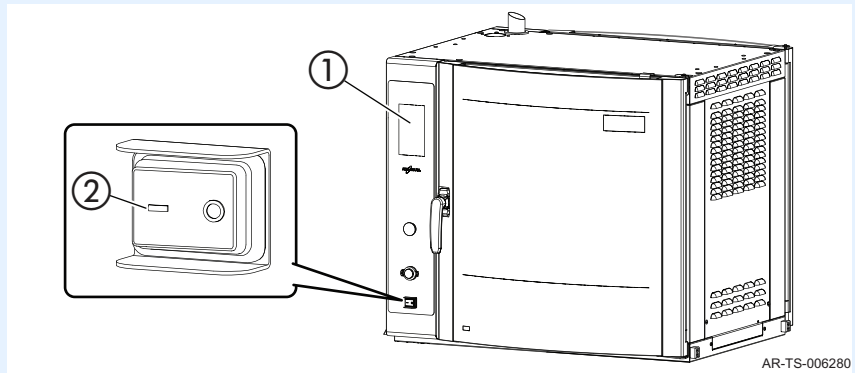
Make sure the oven is turned off.

Procedure

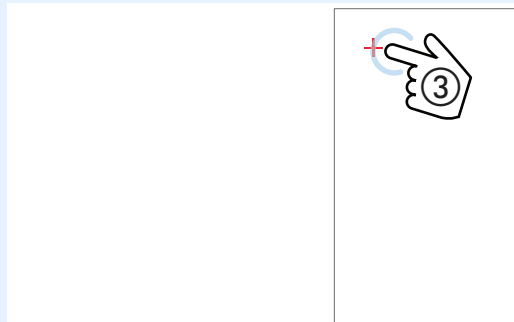
To force calibrate the screen, do the following.

Step	Action
1.	Touch and hold the touch screen ① and set the power switch to the ON (I) position ② at the same time.
2.	Touch the plus sign icon ③ as it appears in each corner of the screen. When all four corners have been touched, the start-up screen will appear briefly, then the display will return to the home screen.

1. **Touch and hold** the touch screen ① and **set** the power switch to the ON (I) position ② at the same time.



2. **Touch** the plus sign icon ③ as it appears in each corner of the screen. When all four corners have been touched, the start-up screen will appear briefly, then the display will return to the home screen.



Result

The screen has been calibrated.

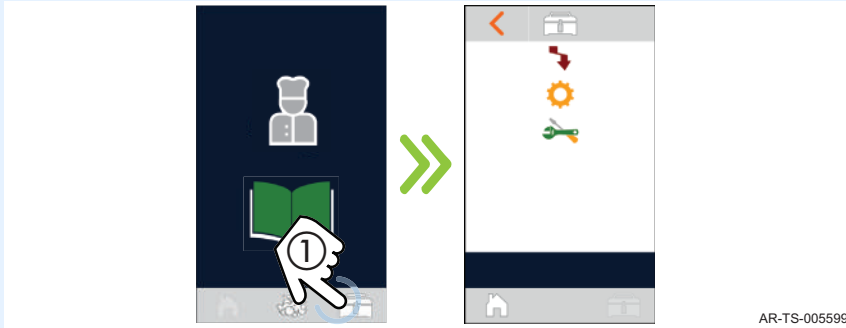
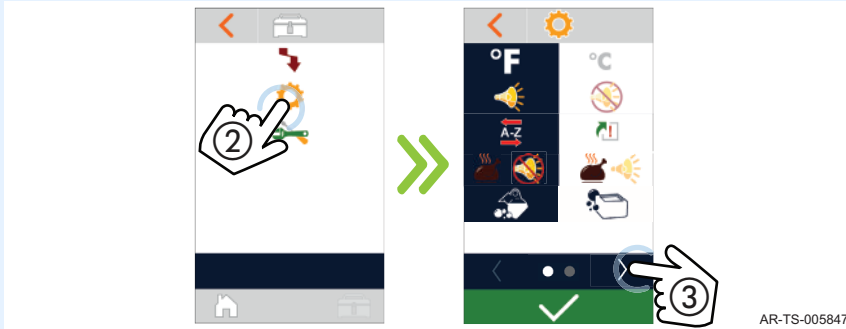
How to Restore Factory Defaults

Before you begin

Make sure the oven is turned on.

Procedure

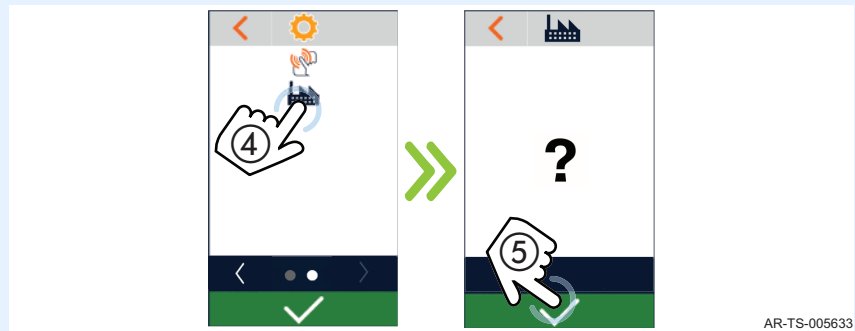
To restore factory defaults, do the following.

Step	Action
1.	Touch the utilities icon ①. The utilities screen displays. 
2.	Touch the settings icon ②. The settings screen displays. Touch the arrow icon ③ to view the second settings screen. 

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3. **Touch** the restore factory defaults icon ④. The restore factory defaults screen displays.



4. **Touch** the green check mark icon ⑤.



NOTE: All saved recipes will be deleted.

The screen will go blank for a moment. The start-up screen will appear briefly, then the display will return to the Home screen.

Result

The factory defaults have been restored.

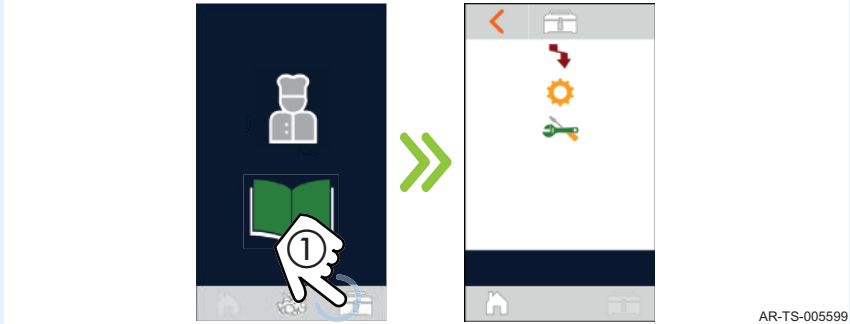
How to Select the Cleaning Method

Before you begin

Make sure the oven is turned on.

Procedure

To select the cleaning method, do the following.

Step	Action
1.	Touch the utilities icon ①. The utilities screen displays.  AR-TS-005599
2.	Touch the settings icon ②. The settings screen displays. Touch the tablet cleaner icon ③ to clean using tablet cleaner or the liquid cleaner icon ④ to clean using liquid cleaner.  AR-TS-005625
3.	Touch the green check mark icon.  NOTE: This will set the cleaning method. The oven will not start a cleaning sequence.

Result

The cleaning method has been selected.

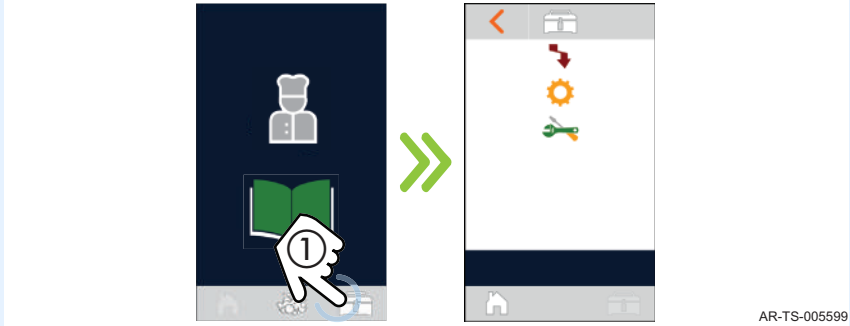
How to Change the Sound Settings

Before you begin

Make sure the oven is turned on.

Turning the sound on/off

To turn the sound on/off, do the following.

Step	Action
1.	Touch the utilities icon ①. The utilities screen displays.  AR-TS-005599
2.	Touch the settings icon ②. The settings screen displays. Touch the sound on icon ③ to turn the sound on. Touch the sound off icon ④ to turn the sound off.  AR-TS-006101
3.	Touch the green check mark icon.

The sound is now on/off.

Changing the sound tone

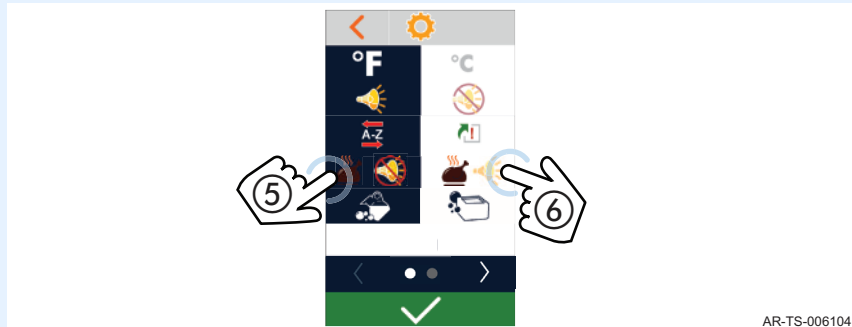
To change the sound tone, do the following.

- Make sure** the sound on/off setting is turned on.

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5. **Touch** the one sound tone icon ⑤. This sounds one alert when the cooking process is complete.



AR-TS-006104

6. **Touch** the multiple sound tones icon ⑥. This sounds multiple alerts when the cooking process is complete.
7. **Touch** the green check mark icon.

Result

The sound settings have been changed.

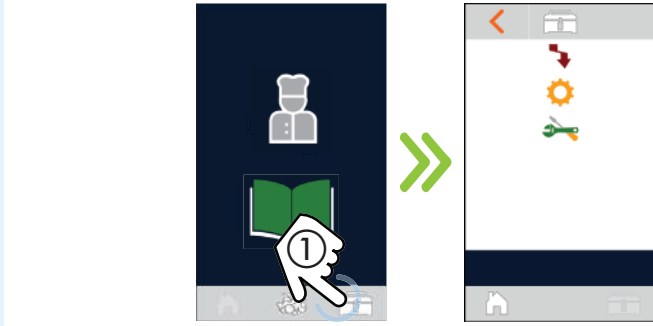
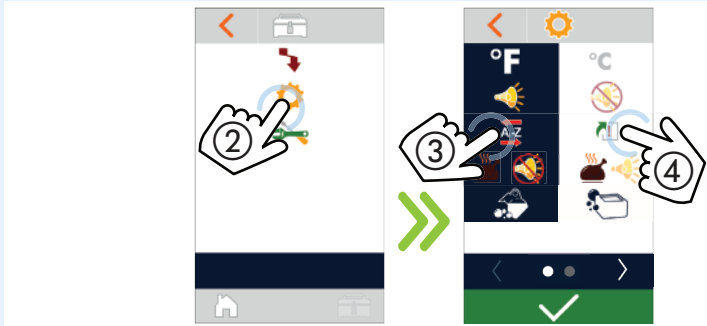
How to Sort Recipes

Before you begin

Make sure the oven is turned on.

Procedure

To sort the recipes, do the following.

Step	Action
1.	Touch the utilities icon ①. The utilities screen displays.  AR-TS-005599
2.	Touch the settings icon ②. The settings screen displays. Touch the sort recipes A-Z icon ③ to sort recipes by alphabetical order. Touch the sort recipes by most recent icon ④ to sort recipes by most recently created.  AR-TS-006127
3.	Touch the green check mark icon.

Result

The recipes have now been sorted.

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Maintenance Schedule

Requirements

- Make sure the oven is under 140°F (60°C) before cleaning.
- Do not use a hose or water jet on external and technical parts of the appliance.

Daily

For daily maintenance, do the following.

- **Clean** all grease and debris from the bottom of the oven. Do not wipe debris into the drain.
- **Clean** the drip tray.
- **Clean** the glass and outside of the oven.
- **Clean** the door gasket.
- **Remove** debris from the drain screen.
- **Run** automatic cleaning cycle.
- **Empty** the grease collection container, if needed.

Weekly

For weekly maintenance, do the following.

- **Inspect** the door gaskets for tears.
- **Clean** the outside of the oven with a stainless steel cleaner.
- **Inspect** grease collection hoses and containers for damage.
- **Make sure** all lights are working.
- **Inspect** the oven for grease or carbon buildup.
- **Inspect** the oven for scale buildup.
- **Inspect** the oven cavity exhaust port and vent pipe.
 - **Clean** out any grease or carbon buildup
 - **Inspect** the gasket around the vent pipe. Replace as needed

Monthly

For monthly maintenance, do the following.

- **Descal** the oven using Alto-Shaam's ScaleFree descaling powder.
- **Inspect** the drain piping for leaks.
- **Clean** the convection fan box.
- **Inspect** the touchscreen for damage.

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Yearly

For yearly maintenance, do the following.



NOTE: Must be performed by a qualified professional.

- **Inspect** the humidity valve hoses and tubes
 - **Clean** any grease or carbon buildup.
 - **Replace** hoses as needed.
- Clean the Vent Pipe from the top of the unit.

How to Run a Rinse Cycle

Before you begin



WARNING: Burn hazard.

Wear protective gloves, protective clothing, eye protection, and face protection when handling oven cleaner. Do not open the oven door during the wash or rinse cycle.

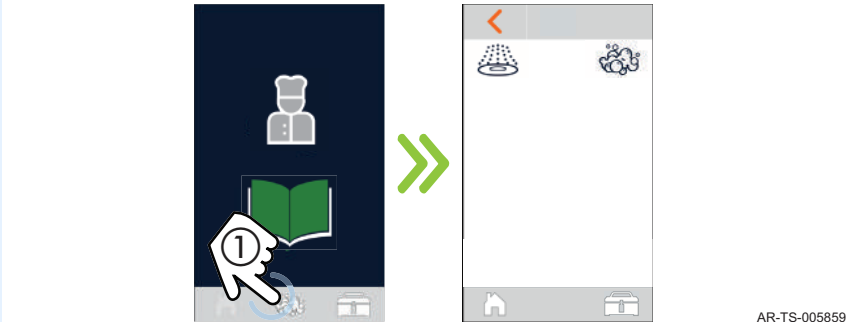
NOTICE

Do not use steel pads, wire brushes, or scrapers when cleaning.

Procedure

To run a rinse cycle, do the following.

Step	Action
1.	Make sure the oven is cool—oven is less than 140°F (60°C).
2.	Remove food debris, solid wastes, poultry skin and bones from the drain screen.
3.	Touch the cleaning icon ①. The cleaning screen displays.



AR-TS-005859

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4. **Touch** the rinse icon ②. The rinse screen displays.
Touch the green check mark icon ③ to begin the rinse cycle.

NOTE: The rinse cycle takes approximately 2–3 minutes before the water begins to spray.



The rinse cycle takes 30 minutes to complete. At the end of the rinse cycle, the oven sounds an alert and the rinse cycle complete screen displays.

5. **Touch** the green check mark icon ④ to return to the home screen when the rinse cycle is complete.

Result

The oven has completed a rinse cycle.

How to Clean the Oven Using Liquid Cleaner

Before you begin

**WARNING:** Burn hazard.

Wear protective gloves, protective clothing, eye protection, and face protection when handling oven cleaner. Do not open the oven door during the wash or rinse cycle.

NOTICE

Do not use steel pads, wire brushes, or scrapers when cleaning.

Make sure:

- The liquid cleaner is installed. See topic *How to Install the Liquid Cleaner*.
- You have set the cleaning method to liquid cleaning. See topic *How to Select the Cleaning Method*.
- You have enough liquid cleaner (CE-36457) to clean the oven.

Procedure

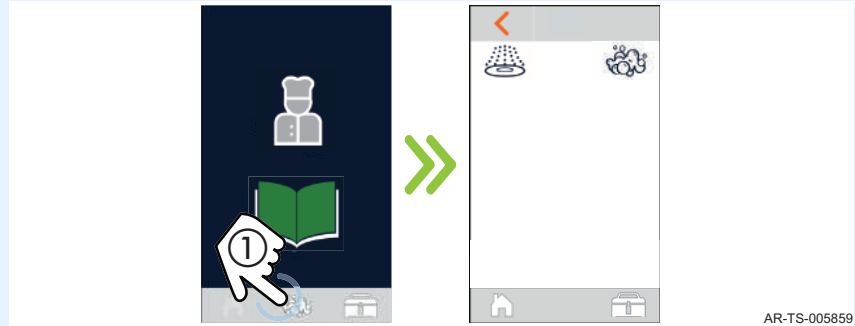
To clean the oven using liquid cleaner, do the following.

Step	Action
1.	Make sure the oven is cool—oven is less than 140°F (60°C).
2.	Remove food debris, solid wastes, poultry skin and bones from the drain screen.

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3. **Touch** the cleaning icon ①. The cleaning screen display.

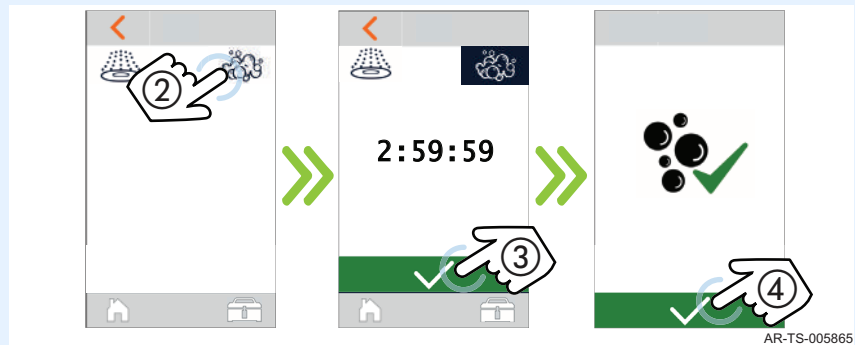


4. **Touch** the wash icon ②. The wash screen displays.

Touch the green check mark icon ③ to begin the wash cycle.



NOTE: The wash cycle takes approximately 2-3 minutes to heat the water before the water begins to spray.



The wash cycle takes 2:59:59 to complete. At the end of the wash cycle, the oven sounds an alert and the wash cycle complete screen displays.

5. **Touch** the green check mark icon ④ to return to the home screen when the wash cycle is complete.

Result

The oven has completed a wash cycle using liquid cleaner.

How to Clean the Oven Using Tablets

Before you begin



WARNING: Burn hazard.
Wear protective gloves, protective clothing, eye protection, and face protection when handling oven cleaner. Do not open the oven door during the wash or rinse cycle.

NOTICE

Do not use steel pads, wire brushes, or scrapers when cleaning.

Make sure:

- You have set the cleaning method to tablet cleaning. See topic *How to Select the Cleaning Method*.
- You have enough concentrated cleaning tablets (CE-46991) to clean the oven.

Procedure

To clean the oven using concentrated cleaning tablets, do the following.

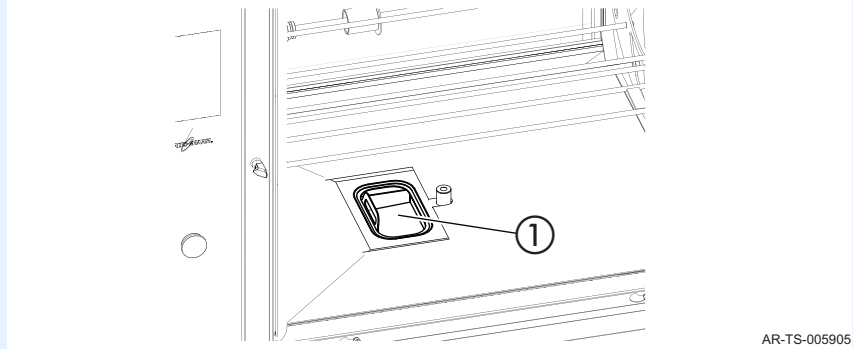
Step	Action
1.	Make sure the oven is cool—oven is less than 140°F (60°C).
2.	Remove food debris, solid wastes, poultry skin and bones from the drain screen.

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3. **Insert** two (2) concentrated cleaning tablets into the cavity drain ①.
Make sure the drain screen is closed before starting the wash cycle.

NOTICE Do not place the cleaning tablets on the top of the drain or the bottom of the oven. The tablets could damage the interior of the oven.



4. **Touch** the cleaning icon ②. The cleaning screen display.

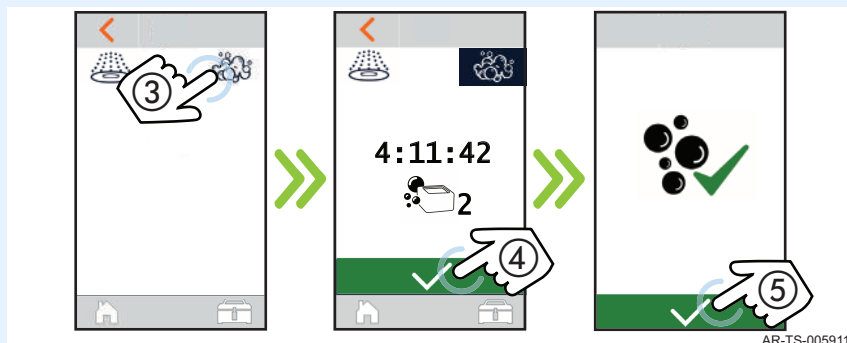


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5. **Touch** the wash icon ③. The wash screen displays.
Touch the green check mark icon ④ to begin the wash cycle.

NOTE: The wash cycle takes approximately 2-3 minutes to heat the water before the water begins to spray.



The wash cycle takes 4:11:42 to complete. At the end of the wash cycle, the oven sounds an alert and the wash cycle complete screen displays.

6. **Touch** the green check mark icon ⑤ to return to the home screen when the wash cycle is complete.

Result

The oven has completed a wash cycle using tablets.

How to Descale the Oven

Before you begin



WARNING: Burn hazard.

Wear protective gloves, protective clothing, eye protection, and face protection when handling oven cleaner. Do not open the oven door during the wash or rinse cycle.

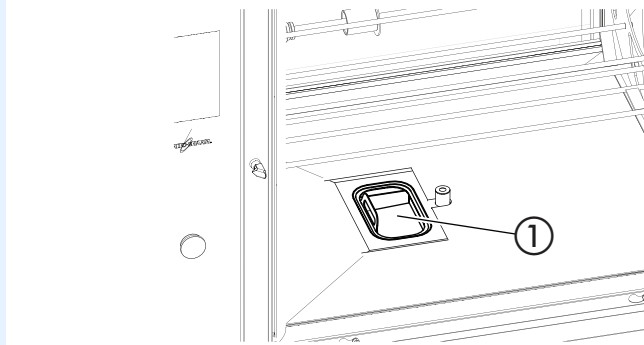
NOTICE

Do not use steel pads, wire brushes, or scrapers when cleaning.

Make sure you have Alto-Shaam ScaleFree Descaling Powder (CE-27889).

Procedure

To descale the oven, do the following.

Step	Action
1.	Make sure the oven is cool—oven is less than 140°F (60°C).
2.	Clean the oven with a full wash cycle. See topic <i>How to Clean the Oven Using Liquid Cleaner</i> or <i>How to Clean the Oven Using Tablets</i> .
3.	Place 7 oz. (198 g) of Alto-Shaam ScaleFree Descaling Powder into the cavity drain ①. Close the drain screen.  AR-TS-005905

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4. **Run** a rinse cycle. See topic *How to Run a Rinse Cycle*.
5. **Run** a wash cycle. See topic *How to Clean the Oven Using Liquid Cleaner or How to Clean the Oven Using Tablets*.

Result

The oven is now descaled.

How to Clean the Door Gasket and Glass

Before you begin



WARNING: Burn hazard.

Wear protective gloves, protective clothing, eye protection, and face protection when handling oven cleaner.

NOTICE

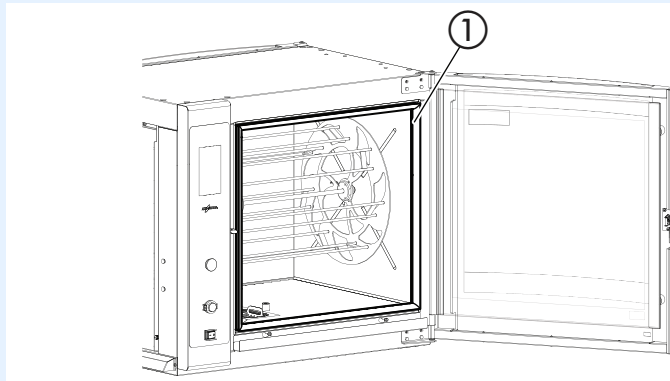
Do not use steel pads, wire brushes, or scrapers when cleaning.

Make sure you have glass cleaner or distilled vinegar.

Procedure

To clean the door gasket and glass, do the following.

Step	Action
1.	Make sure the oven is cool—oven is less than 140°F (60°C).
2.	Clean the door gasket ① with soap and water.
3.	Clean each side of the window pane with glass cleaner or distilled vinegar.
4.	Leave the door open until the door gasket completely dries.



AR-TS-006005

Result

The oven door is now clean.

How to Clean the Convection Fan Box and Directional Panel

Before you begin



WARNING: Burn hazard.

Wear protective gloves, protective clothing, eye protection, and face protection when handling oven cleaner. Do not open the oven door during the wash or rinse cycle.

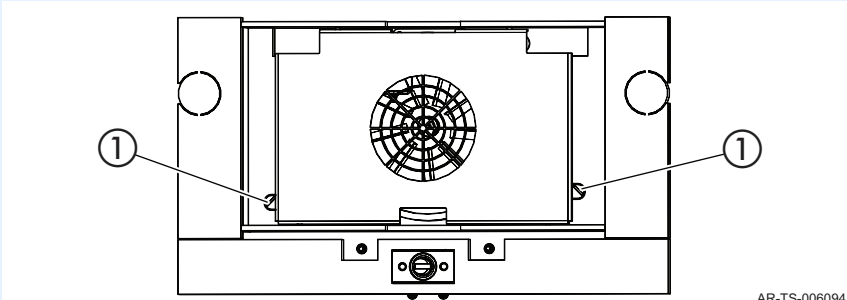
NOTICE

Do not use steel pads, wire brushes, or scrapers when cleaning.

Procedure

To clean the rotisserie convection fan box, do the following.

Step	Action
1.	Make sure the oven is cool—oven is less than 140°F (60°C).
2.	Clean the oven with a full wash cycle. See topic <i>How to Clean the Oven Using Liquid Cleaner</i> or <i>How to Clean the Oven Using Tablets</i> .
3.	Set the ON/OFF power switch to the OFF position or disconnect the oven from power.
4.	Remove the drive tube assembly and disk drive.
5.	Turn the tabs ① on the fan panel to the open position using a flathead screwdriver. Remove the directional panel.



AR-TS-006094

1.Spray cleaning agent onto the directional panel. Let the cleaning agent sit for 5 minutes before continuing.

2.Clean the directional panel using a brush.

3.Rinse off the directional panel with water and then wipe dry.

4.Re-install the directional panel onto the fan box.

Cleaning the directional panel

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6.	Spray inside of the fan convection box. Allow the cleaner to soften the grease for five minutes.
7.	Clean hard deposits with a plastic scouring pad, if necessary.
8.	Clean grease deposits accumulated in the area surrounding the convection element and fan blade using a damp sponge and a plastic scouring pad.
NOTICE Use caution to avoid bending the convection element or the fan blades.	
9.	Re-install the fan panel.
10.	Run a wash cycle. See topic <i>How to Clean the Oven Using Liquid Cleaner</i> or <i>How to Clean the Oven Using Tablets</i> .

Result

The convection fan box is now clean.

How to Clean the Vent Pipe

Before you begin

You will need a cleaning brush.

NOTICE Do not use steel pads or scrapers when cleaning.



WARNING: Cleaning vent pipe from top can result in injury. Cleaning the vent pipe from top should only be performed by ASA. The ASA should perform the cleaning of the top of the vent pipe yearly.

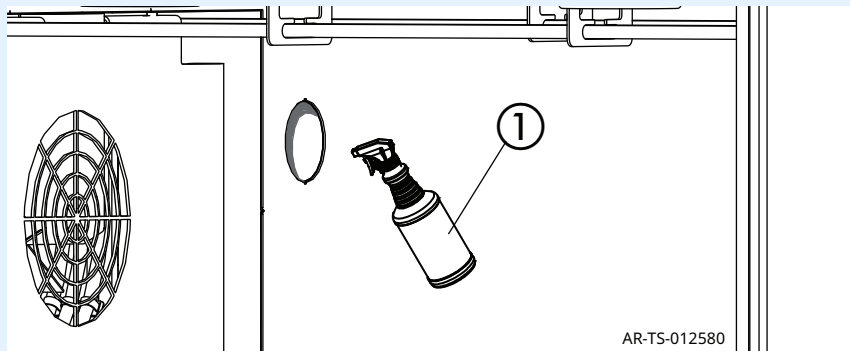


NOTE: Use the same procedure on either individual or stacked AR-7T units.

Procedure

To clean the vent pipe, do the following.

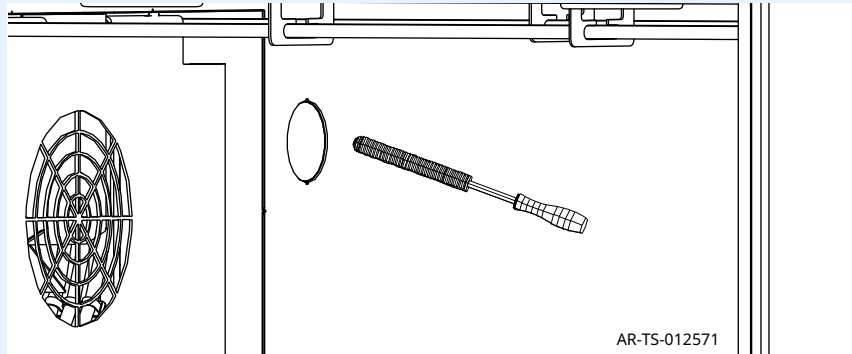
Step	Action
1.	Make sure the oven is cool—oven is less than 140°F (60°C).
2.	Remove the carousel from the oven. See topic <i>How to Remove Carousel</i> for more information.
3.	Spray the inside of the vent pipe with Alto-Shaam non-caustic oven cleaner ① CE-46828. Allow the cleaning agent to sit for ten minutes before continuing.



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4. **Insert** brush into the vent pipe.
Clean the buildup with the brush.
Wipe the buildup with a kitchen towel.



5. **Wash** the remaining oven cleaner from the vent pipe and the cavity wall with water.
6. **Wipe** the vent pipe with a kitchen towel.
7. **Re-install** the carousel.

Result

The vent pipe is now clean.

AR-7T Error Codes

Code	Description	Possible Cause
PROG	Fatal error, call service.	Programmer error.
EADC	ADC is out of range.	Microprocessor on the control board (CB) may be failing. May have cold solder joint on the CB.
E-BC	Bootloader Chip is bad. Software updates cannot be performed.	Chip may have cold solder joint or other electrical distress.
E-CB	Control board and interface board software do not match. Update the software.	Control board or Interface board version is not current.
E-B0	PCB temperature sensor is short-circuited.	Board failure.
E-B1	PCB temperature sensor is open-circuit.	Board failure.
E-B2	PCB is over-temperature of 70°C.	Possible cooling fan failure in the control area. Possible runaway heater. Possible that we are too close to another piece of equipment or have inadequate ventilation.
E-I0	Short circuit in-line water heater sensor.	Sensor wires damaged.
E-I1	Open circuit in-line water heater sensor.	Sensor wires damaged.
E-I2	Water heater sensor over temperature	Sensor above 200°F (93.3°C).
E-SD	SD card is not detected.	SD card slot is bad. SD card is not present.
E-10	N6 cavity sensor is short-circuit.	Error at sensor input. Wrong RTD type (100Ω vs. 1000Ω). Check wiring. Board may be bad at sensor input.
E-11	N6 cavity sensor is open-circuit.	Error at sensor input. Wrong RTD type (100Ω vs. 1000Ω). Check wiring. Board may be bad at sensor input.
E-30	Temperature is 25°F below the target set point for more than 90 minutes.	Troubleshoot cavity heating element.
E-31	N6 cavity sensor over temperature, > 500°F for two consecutive minutes. If temperature exceeds 525°F, the program will stop.	If the oven has experienced an over temperature condition allow the oven to cool down for a minimum of 30 minutes. Press the high limit reset button. Resume cooking operation. If error reappears contact service provider.
E-41	Touch driver is detected, but not responding to queries.	Touch chip error on board.
E-43	Touch driver is missing.	Touch chip error on board.
E-44	Touch driver is detected, but not responding to queries.	Touch chip error on board.

Code	Description	Possible Cause
E-53	Motor high-limit is open.	Motor is too hot, and high-limit is legitimately open. Wiring to motor is incorrect. Board issues reading motor high-limit input switch.
E-55	Vent valve error, contact service.	Vent valve malfunction.
E-60	Real time clock checksum fail/invalid.	Date/Time reset to default value. Reset date/time to current.
E-61	Real time clock not responding/not detected/not present.	Control failure. Replace the control.
E-64	Real time clock not ticking.	Control failure. Replace the control.
E-66	Control board reset but interface board did not.	Electrical noise.
E-70	Personality wiring is incorrect, does not equate to a supported configuration.	Personality wiring is incorrect. Broken wire. Board issues reading personality jumpers. Old software with new configuration.
E-71	Control ID is not what is expected. The control board and interface board can talk, but are meant for different controls, a CB or IB update is required.	Control board is programmed for a different software than what is intended. Example: Rotisserie is plugged into a Cook and Hold or QuickChiller control board.
E-80	Control settings have been reset to factory defaults because EEPROM checksum was incorrect.	Software has new features installed (post updated, this may be expected after the first restart and is normal). Continuous E-80 may be failing EEPROM.
E-83	EEPROM is not responding.	Failing EEPROM.
E-84	User options have been reset to factory defaults because user options EEPROM checksum was incorrect.	Software has new features installed (post updated, this may be expected after the first restart and is normal). Continuous E-84 may be failing EEPROM.
E-94	Communications has not occurred for 4 attempts.	Electrical noise. Communication cable not properly seated, not plugged in.
E-109	N7 or N9 high-limit is open.	Unit is too hot, and N7 is legitimately open. Water heater is too hot, and N9 is legitimately open. Wiring to N7 or N9 is incorrect. Board issues reading N7 or N9 input switch. Lack of water in heater tank, check for debris on drain.

Warranty

Introduction

Alto-Shaam, Inc. warrants to the original purchaser only, that any original part found to be defective in material or workmanship will be replaced with a new or rebuilt part at Alto-Shaam's option, subject to provisions hereinafter stated.

Warranty Period

The original parts warranty period is as follows:

- For all other original parts, one (1) year from the date of installation of appliance or fifteen (15) months from the shipping date, whichever occurs first.
- The labor warranty period is one (1) year from the date of installation or fifteen (15) months from the shipping date, whichever occurs first.
- Alto-Shaam will bear normal labor charges performed during standard business hours, excluding overtime, holiday rates or any additional fees.
- For the refrigeration compressor, if installed, the warranty period is five (5) years from the date of original installation of the appliance.
- For heating elements on Halo Heat® Cook and Hold ovens, the warranty period is for as long as the original owner owns the oven. This warranty period applies to units sold after 2/1/2009 and excludes holding-only ovens.
- To be valid, a warranty claim must be asserted during the applicable warranty period. This warranty is not transferable.

Exclusions

This warranty does not apply to:

- Calibration.
- Replacement of light bulbs, rubber gaskets, grease filters, air filters, racks, jet plates, and/or the replacement of glass due to damage of any kind.
- Equipment damage caused by accident, shipping, improper installation or alteration.
- Equipment used under conditions of abuse, misuse, carelessness or abnormal conditions, including but not limited to, equipment subjected to harsh or inappropriate chemicals, including but not limited to, compounds containing chloride or quaternary salts, poor water quality, or equipment with missing or altered serial numbers.
- Equipment damage caused by use of any cleaning agents other than those recommended by Alto-Shaam, including but not limited to damage due to chlorine or other harmful chemicals.
- Any losses or damage resulting from malfunction, including loss of food product, revenue, or consequential or incidental damages of any kind.
- Equipment modified in any manner from original model, substitution of parts other than factory authorized parts, unauthorized removal of any parts including legs, or unauthorized addition of any parts.

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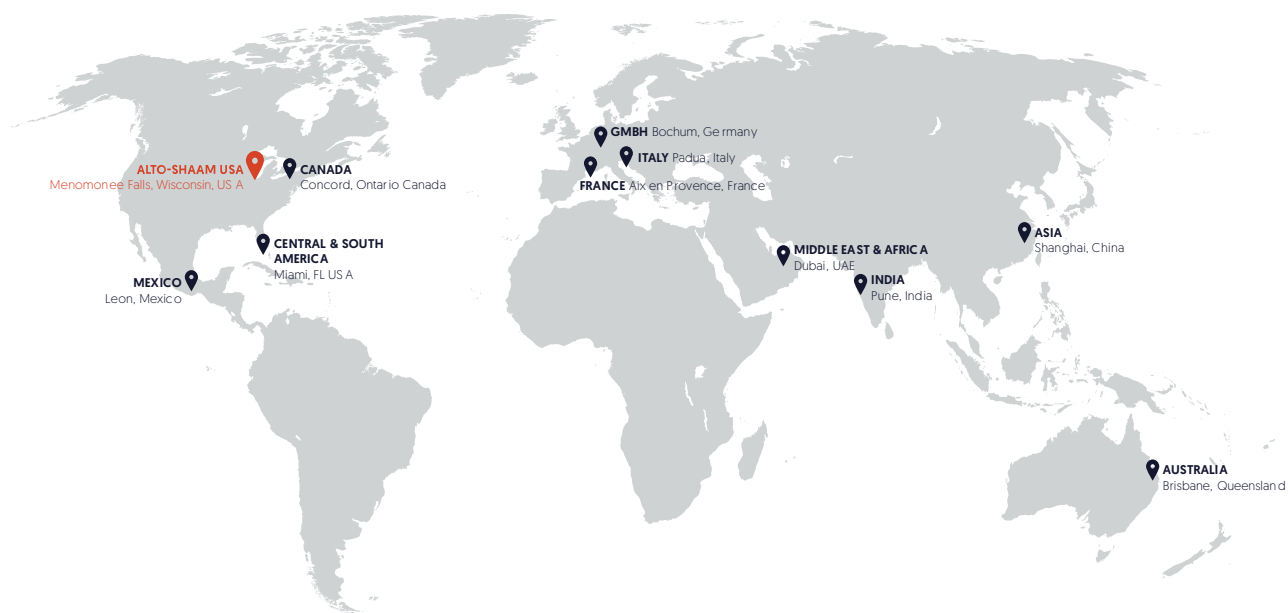
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- Equipment damage incurred as a direct result of poor water quality*, inadequate maintenance of steam generators and/or surfaces affected by water. Water quality and required maintenance of steam generating equipment is the responsibility of the owner/operator.
- Equipment damage incurred as a result of not following the required maintenance schedule published in the manuals for the equipment.

Conclusion

This warranty is exclusive and is in lieu of all other warranties, express or implied, including the implied warranties of merchantability and fitness for a particular purpose. No person except an officer of Alto-Shaam, Inc. is authorized to modify this warranty or to incur on behalf of Alto-Shaam any other obligation or liability in connection with Alto-Shaam equipment.

**Refer to the product spec sheet for water quality standards.*



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