



$\mathbf{Prodigi}^{\mathbb{R}}$

PRO Control

| 6-10E | 6-10G |
|--------|--------|
| 10-10E | 10-10G |
| 7-20E | 7-20G |
| 10-20E | 10-20G |
| 20-10E | 20-10G |
| 20-20E | 20-20G |



MN-48155-EN

REV.01 5/23

EN

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Manufacturer's Information

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Manufacturer Alto-Shaam, Inc.

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Original instructions The content in this manual is written in American English.



FOREWORD

Alto-Shaam 24/7 Emergency Repair Service

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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SAFETY

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.

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.
- 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 racks 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.
- Do not unplug or disconnect the appliance immediately after cooking. The cooling fans must stay on to protect electrical components.

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.
- Only clean the appliance when oven is OFF.
- 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.
- Do not remove the top cover or side panels. There are no user-serviceable components inside.



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 will void the warranty and relieve Alto-Shaam of all liability. Original manufacturer's replacement parts may be substituted; however, these parts must be of equal quality and specifications as those provided by Alto-Shaam.
- 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.

Sound power

The A-weighted sound pressure level is below 70 dB(A).



SAFETY

Personal Protective Equipment (PPE)

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

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

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



OPERATION

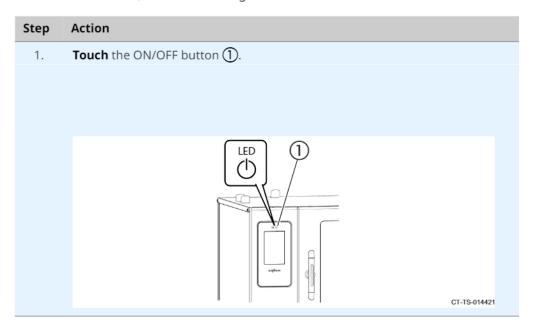
How to Turn On and Turn Off the Oven

Before you begin

- The oven must be connected to electric power.
- Make sure the gas supply is connected.
- Make sure the water supply is connected.

Turning on the oven

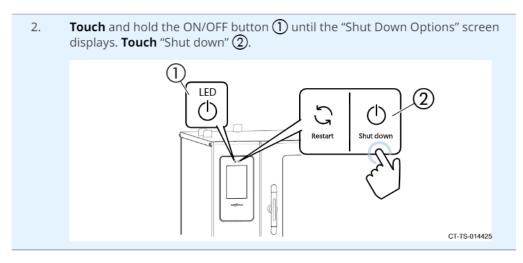
To turn on the oven, do the following.



The oven is now on.

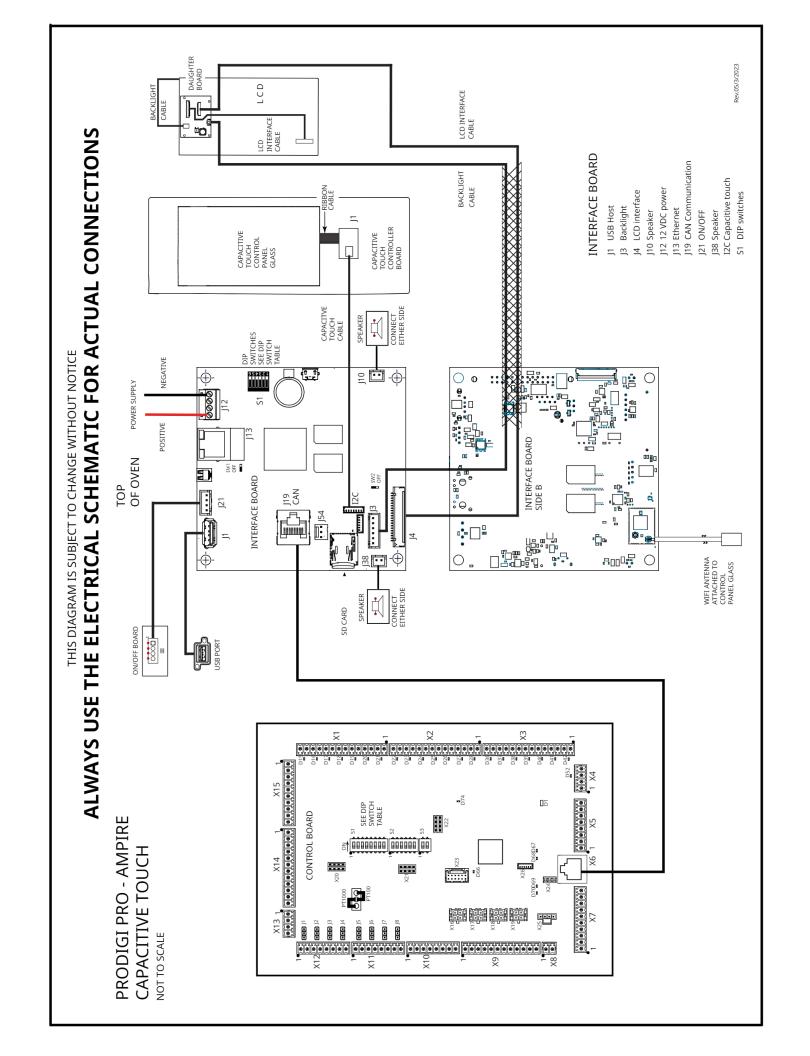
Turning off the oven

To turn off the oven, do the following.

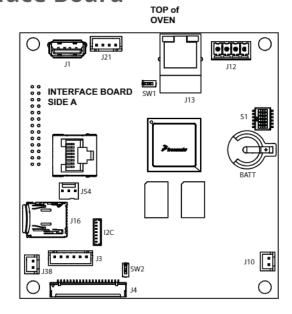


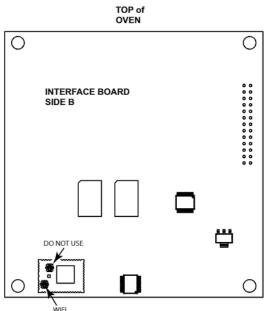
The oven is now off.





Interface Board





VMC-TS-008222.ai

| Ref. | Description |
|------|--------------------------|
| BATT | Clock battery |
| I2C | Capacitive touch cable |
| J1 | USB connections |
| J3 | Display back light |
| J4 | LCD interface |
| J10 | Speaker |
| J12 | 12 VDC power |
| J13 | Ethernet |
| J16 | 8 GB micro SD card |
| J21 | ON/OFF board |
| J38 | Speaker |
| J54 | RS 485/232 LVIO |
| S1 | DIP switches (see table) |
| SW1 | DIP switch (off) |
| SW2 | DIP switch (off) |

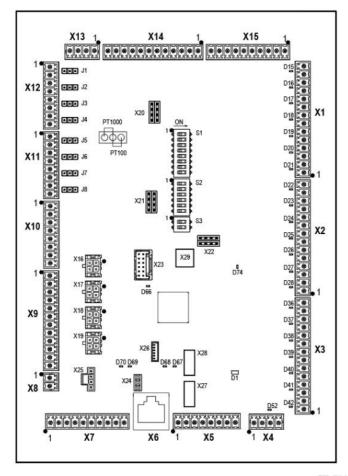
| Product | Screen Orientation | SW 6 | SW 5 | SW 4 | SW 3 | SW 2 | SW 1 |
|--------------------------|-----------------------|------|------|------|------|------|------|
| Vector H | Landscape | OFF | OFF | OFF | OFF | OFF | OFF |
| Cook & Hold | Landscape | OFF | OFF | ON | OFF | OFF | OFF |
| Vector F Electric | Portrait | OFF | ON | ON | OFF | OFF | ON |
| Vector F Gas | Portrait | OFF | ON | ON | ON | OFF | ON |
| - | - | - | - | - | - | - | - |
| Converge DX | Landscape | ON | OFF | OFF | OFF | OFF | OFF |
| Converge SX | Landscape | ON | OFF | OFF | OFF | ON | OFF |
| Prodigi Pro Electric | Portrait | OFF | OFF | OFF | ON | OFF | ON |
| Prodigi Pro Gas | Portrait | ON | OFF | ON | ON | OFF | ON |
| Prodigi Classic Elect | Portrait | OFF | OFF | OFF | ON | ON | ON |
| Prodigi Classic Gas | Portrait | ON | OFF | ON | ON | ON | ON |

AS-PHD-014227

Control Board

PARE

LE S3



CT-PHD-014167_ Prodigi

DIP SWITCH TABLE S1

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|-----------------|----------|---------|--------------|--------------|--------------|---------------------------|-------|
| ON | BOILER | GAS | CLASSIC | ROLL-IN | OPTION | V-HOOD | MULTI- POINT PROBE | SPARE |
| OFF | BOILER- LESS | ELECTRIC | PRO | TABLE TOP | NO OPTION | NO V-HOOD | SINGLE- POINT PROBE | SPARE |

| DID | SWIT | CUT | ΛDI | E C | - |
|-----|------|-----|-----|-----|---|

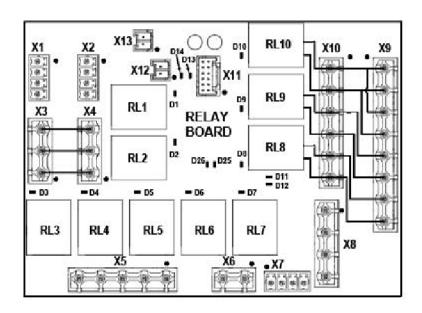
| | 1 | 2 | 3 | 4 | 5 | 6 | |
|-----|-----|---------|-----|-----|-----|-----|--|
| ON | N/A | PRODIGI | N/A | N/A | N/A | N/A | |
| OFF | N/A | СМС | N/A | N/A | N/A | N/A | |

DIP SWITCH TABLE S3

| | 1 | 2 | |
|-----|-----|-----|--|
| ON | N/A | N/A | |
| OFF | N/A | N/A | |

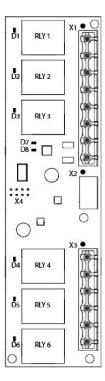
| Ref. | Pin(s) | Description | Ref. | Pin(s) | Description |
|---------|--------|---|------|--------|------------------------------------|
| D1 | - | Green / Red LED 5V | X11 | 1-2 | B10, Product Temp Probe |
| D15-D28 | - | Yellow LEDs - Function Outputs | - | 3-8 | Not Used |
| D36-D42 | - | Yellow LEDs - Function Outputs | X12 | 1-2 | N6, Cavity Temp Probe |
| D52 | - | Amber LED 12V at 5V Converter | - | 3-8 | Not Used |
| D66 | - | White Led - Heart Beat Blinking | X13 | 1-4 | RGB Door Handle Lights |
| D67-D68 | - | Blue LEDs - Rx - Tx Blinking | X14 | 1-2 | Pressure Switch - Water Supply |
| D69-D70 | - | Not Used | - | 3-12 | Not Used |
| D74 | - | Green LED 3.3V | X15 | 1-2 | Door Switch |
| J1- J8 | - | Probe Jumpers 100 Ω , or 1000 Ω | - | 3-4 | Not used |
| S1 | - | DIP Switches - See Table on El Schematic | - | 5-6 | Steam Relief Valve Switch 1 (SW-1) |
| S2 | - | DIP Switches - See Table on El Schematic | - | 7-8 | Steam Relief Valve Switch 2 (SW-2) |
| S3 | - | DIP Switches - See Table on El Schematic | - | 9-10 | Not Used |
| X1 | 1-14 | Not Used | X16 | 1 | PWM to RB - Upper Burner |
| X2 | 1-2 | RLY 50 VFD(s) - Power Enable | - | 2 | Not Used |
| - | 3-4 | RLY 51 VFD - 20.20 - Lower - 440-480 Volt | - | 3 | Not Used |
| - | 5-14 | Not Used | - | 4 | Hall Effect from RB - Upper Burner |
| Х3 | 1 | Not Used | X17 | 1 | PWM to RB - Lower Burner |
| - | 2 | Cavity LED | - | 2 | Not Used |
| - | 3 | Not Used | - | 3 | Not Used |
| - | 4 | Cavity LED - 20.10, 20.20 | - | 4 | Hall Effect from RB - Lower Burner |
| - | 5-8 | Not Used | X18 | - | Not Used |
| - | 9-12 | Steam Relief Valves (RV) Browning Valves | X19 | - | Not Used |
| - | 13-14 | Not Used | X20 | - | Not Used |
| X4 | - | 12 VDC Supply - Jumpers to IB | X21 | - | Not Used |
| X5 | 1-2 | N7, High Limit - Test | X22 | - | Interface to Option Board X4 |
| - | 3-8 | Not Used | X23 | - | Comm Cable to Relay Board X11 |
| X6 | - | CB - IB Communication | X24 | - | Not Used |
| X7 | 1-2 | Fan Motor - High Limit - Upper - Classic | X25 | - | Not Used |
| - | 3-4 | Fan Motor - High Limit - Lower - Classic | X26 | - | Not Used |
| - | 5-10 | Not Used | X27 | - | VFD(s) Communication - S600 |
| X8 | - | Not Used | X28 | - | Not Used |
| Х9 | - | Not Used | X29 | - | Not Used |
| X10 | 1-2 | B3 - Water Temp Probe - Condensate | - | - | - |
| - | 3-4 | Not Used | - | - | - |
| - | 5-6 | B5 - Probe- Steam Bypass | - | - | - |
| - | 7-8 | Not Used | - | - | - |

Relay Board



| Ref. | Pin(s) | Description | Ref. | Pin(s) | Description |
|----------|--------|------------------------------------|----------------------|--------|-------------------------------------|
| D1 - D10 | - | Yellow LEDs - Function Outputs | Х3 | 1-3 | Fan Motor - Upper - Classic |
| D11 | -3 | Green LED Lower Gas Function Check | X4 | 1-3 | Fan Motor - Lower - Classic |
| D12 | -93 Î | Green LED Upper Gas Function Check | X5 | 1 | NO Contact RL6 - Y4 Cleaning Pump |
| D13 | | Amber LED 12V | 00 4 00 | 2 | NO Contact RL5 - Y3 Water |
| D14 | -9 3 | Green LED - 5VDC | 8a+a | 3 | NO Contact RL4 - Y2 Water |
| D25 | - | Red LED - Lower Gas Alarm | 0.0 .0 00 | 4 | NO Contact RL3 - Y1 Steam Valve |
| D26 | 25 | Red LED - Upper Gas Alarm | 528 | 5 | Common RL 3 - RL 6 |
| RL-1 | 2 | Fan Motor - High Speed - Classic | X6 | 1-2 | RL7 - Smoker |
| RL-2 | - 2 | Fan Motor - Low Speed - Classic | X7 | 1-2 | Flame Sensor - Upper (Gas) |
| RL-3 | 28 | Y1 Water Solenoid | 3-6 | 3-4 | Flame Sensor - Lower (Gas) |
| RL-4 | -81 | Y2 Water solenoid | X8 | 1-2 | Upper Alarm (Gas) |
| RL-5 | -0 | Y3 Water solenoid | 1498 | 3-4 | Lower Alarm (Gas) |
| RL-6 | -9 | Y4 Cleaning Pump | X9 | 1-2 | Heat Demand - Upper (Gas) |
| RL-7 | - | Smoker | 0.0-0.0 | 3-4 | Heat Demand - Lower (Gas) |
| RL-8 | - | Reset - Lower (Gas) | 000 | 5-6 | Reset - Upper (Gas) |
| | | K45 Contactor (Electric) | . | 7-8 | Reset - Lower (Gas) |
| RL-9 | - 27 | Reset - Upper (Gas) | X10 | 1-2 | K41 Contactor (Electric) |
| | | K44 Contactor (Electric) | (28) | 3-4 | K44 Contactor (Electric) |
| RL-10 | -8 | Heat Demand Upper and Lower (Gas) | (g 2 %) | 5-6 | K45 Contactor (Electric) |
| 17 19 | | K41 Contactor (Electric) | X11 | * 1 | Comm Cable to Control Board X23 |
| X1 | 1 | Combustion Blower - Upper - GND | X12 | 1 | Combustion Blower Lower - HES to CB |
| | 2 | Hall Effect (HES) - In | 10 0 00 | 2 | CB PWM Signal |
| 3 3 | 3 | Pulse Width Modulation (PWM) - Out | X13 | 1 | Combustion Blower Upper - HES to CB |
| | 4 | 12 VDC | 004 5 00 | 2 | CB PWM Signal |
| X2 | 1 | Combustion Blower - Lower - GND | [3 <u>4</u>]] | 2 | - |
| | 2 | Hall Effect (HES) - In | 3250 | 2 | <u> </u> |
| · . | 3 | Pulse Width Modulation (PWM) - Out | 348 | 12 | 2 |
| 10 | 4 | 12 VDC | 10420 | 18 T | <u> </u> |





| Ref. | Description | Ref. | Pin(s) | Description |
|-------|--------------------------------|------|--------|------------------------|
| RLY 1 | Relay - Hood Low | X 1 | 1-2 | Hood Low |
| RLY 2 | Relay - Hood High | • | 3-4 | Hood High |
| RLY 3 | Relay - Grease Pump - PRO ONLY | - | 5-6 | Grease Pump - PRO ONLY |
| RLY 4 | Relay - Liquid Soap - PRO ONLY | | 7-8 | Hood Function Test |
| RLY 5 | Relay - Not Used | X 2 | | Not Used |
| RLY 6 | Relay - Not Used | X 3 | 1-2 | Soap Pump - PRO ONLY |
| D 1-6 | LED - Function Outputs | | 3-6 | Not Used |
| D-7 | 12 VDC | X 4 | - | Interface Pins to CB |
| D-8 | 5 VDC | | | |

MAINTENANCE

Maintenance Schedule

Requirements

- See topic How to Clean the Oven.
- 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.

- **Remove** any spills with disposable paper wipes or a damp cloth.
- **Wipe** the outside of the oven with a damp cloth.
- Wipe the oven gaskets with soap and water.
- **Inspect** the oven gaskets for damage.
- Wipe the front door glass.
- Check the product probe.
- **Check** the screen for cracking or peeling. Contact Technical Service if needed.

Weekly

For weekly maintenance, do the following.

- Clean the entire oven. Make sure to use a non-abrasive nylon scrub pad.
- Do not spray the cleaner directly into the fan openings located in the rear of the oven.
- **Inspect** the oven cavity lamp.
- **Inspect** the oven cavity for signs of grease/carbon buildup.
- **Check** behind the fan panel inside the oven cavity for signs of grease/carbon buildup.
- Check behind the fan panel inside the oven cavity for signs of scale buildup.
- Inspect the heat exchanger for any signs of major deformation. If yes, immediately remove from service and take corrective action.
- **Inspect** the heat exchanger for any loose/disconnected pipes or flanges. If yes, immediately remove from service and take corrective action.
- **Inspect** the convection elements for signs of cracking, deformation, or damage.
- Clean the ventless hood grease filters.

Monthly

For monthly maintenance, do the following.

- Clean out the drip tray line.
- **Check** the supplied water filtration and change as needed.
- Check for software updates.
- Check lighting.
- **Inspect** and test the proper draining of the oven cavity.
- **Inspect** the drain lines for leaks or clogs.

Continued on next page



Continued from previous page

- **Inspect** the oven cavity for any signs of scale buildup.
- Inspect the ventless hood paper filter (replace as needed).
- **Test** the ventless hood drain for proper drainage and signs of leaking.
- De-scale as needed.

Yearly

For yearly maintenance, do the following.



NOTE: Must be performed by a qualified professional.

- **Replace** the steam bypass hose.
- Inspect and test the humidity control.
- Inspect all drain hoses and clamps.
- **Inspect** all steam water injection lines and clamps for leaks or potential issues.
- **Inspect** wiring to heating elements. Re-tighten or secure as needed. Record the amp draw.
- **Inspect** the cleaning system pump and hoses for leaks and proper operation.
- **Inspect** and test the proper draining of the oven cavity.
- **Inspect** the upper browning valve hose.
- **Inspect** the low pressure relief valve and hose.
- **Inspect** the convection element seal from the electrical compartment.
- **Inspect** the gas heat exchanger seal from the electrical compartment.
- **Inspect** the N6 oven temperature probe seal.
- **Inspect** the hand shower handle and hose.
- **Check** operation of all electrical cooling fans.
- **Test** steam injection solenoid.
- **Test** condensate solenoid.
- **Check** all electrical connections are properly connected and secure to the boards.
- **Check** door hinges and handles. Tighten, secure, or adjust as needed.
- Check door gaskets for damage and seal.
- **Run** the oven in convection mode and test operation.
- **Run** the oven in steam mode and test operation.
- De-scale as needed.
- For ovens shipped to New Zealand or Australia, inspect the back flow preventer check valve per AS/NZ3500.1 and AS/NZ3500.2



MAINTENANCE

Continued from previous page

- **Inspect** all drain hoses and clamps.
- **Inspect** all steam water injection lines and clamps for leaks or potential issues.
- **Inspect** wiring to heating elements. Re-tighten or secure as needed. Record the amp draw.
- **Inspect** wiring to the steam element. Re-tighten or secure as needed. Record the amp draw.
- **Inspect** the cleaning system pump and hoses for leaks and proper operation.
- For ovens shipped to New Zealand or Australia, **inspect** the back flow preventer check valve per AS/NZ3500.1 and AS/NZ3500.2
- **Check** operation of all electrical cooling fans.
- **Check** all electrical connections are properly connected and secure to the boards.
- **Check** door hinges and handles. Tighten, secure, or adjust as needed.
- Check door gaskets for damage and seal.
- **Test** steam injection solenoid.
- **Test** condensate solenoid.
- **Run** each chamber in convection mode and test operation.
- **Run** each chamber in steam mode and test operation.



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Error Codes

| Code | Component | Description | Troubleshooting steps |
|------|---------------------|------------------------------------|--|
| E-5 | 2 - Convection fan | Convection fan (upper) under speed | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-5 | 2 - Convection fan | Lower convection fan under speed | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-10 | 44 - Cavity sensor | Cavity sensor short | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-10 | 47 - Food probe | Food probe short | Investigate food probe for damage. Replace if damaged. Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-10 | 52 - Steam injector | Steam injector sensor short | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-10 | 55 - Tank | Tank sensor short | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-11 | 44 - Cavity sensor | Cavity sensor open | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |



TROUBLESHOOTING

| Code | Component | Description | Troubleshooting steps |
|------|---|------------------------------------|--|
| E-11 | 52 - Steam injector | Stem injector sensor open | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-11 | 55 - Tank | Tank sensor open | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-31 | 2 - Convection fan (Classic control) | Motor (upper) over temperature | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-31 | 2 - Convection fan (Classic control) | Lower motor over temperature | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-31 | 2 - Convection fan | Motor VFD (upper) over temperature | Make sure cooling fan(s) are operating. Make sure exhaust vents are clean and free of debris. Make sure oven clearances are met. Ambient temperature greater than 105°F (41°C). |
| E-31 | 2 - Convection fan | Lower motor VFD over temperature | Make sure cooling fan(s) are operating. Make sure exhaust vents are clean and free of debris. Make sure oven clearances are met. Ambient temperature greater than 105°F (41°C). |
| E-31 | 44 - Cavity sensor | Chamber over temperature | 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-31 | 55 - Tank | Tank sensor over temperature | 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. |



| Code | Component | Description | Troubleshooting steps |
|------|---------------------|--------------------------------|---|
| E-31 | 8 - Control Board | Control board too warm | Make sure cooling fan(s) are operating. Make sure exhaust vents are clean and free of debris. Make sure oven clearances are met. Ambient temperature greater than 105°F (41°C). Check the door gasket for damage and proper seal. |
| E-31 | 9 - Interface Board | Interface board too warm | Make sure cooling fan(s) are operating. Make sure exhaust vents are clean and free of debris. Make sure oven clearances are met. Ambient temperature greater than 105°F (41°C). Check the door gasket for damage and proper seal. |
| E-55 | 56 - Vent valve | Vent (upper) not open | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-55 | 56 - Vent valve | Lower vent valve not open | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-62 | 2 - Convection fan | Motor VFD (upper) over current | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-62 | 2 - Convection fan | Lower motor VFD over current | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-66 | 2 - Convection fan | VFD (upper) error | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-66 | 2 - Convection fan | Lower VFD error | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |



TROUBLESHOOTING

| Code | Component | Description | Troubleshooting steps |
|------|---------------------|------------------------------|--|
| E-78 | 19 - Voltage sensor | Voltage monitor too low | 1. Check to make sure the unit plug is fully seated in the electrical outlet. 2. Reset the main circuit breaker for the oven. If error reappears contact service provider. |
| E-78 | 2 - Convection fan | VFD (upper) under voltage | Check to make sure the unit plug is fully seated in the electrical outlet. Reset the main circuit breaker for the oven. If error reappears contact service provider. |
| E-78 | 2 - Convection fan | Lower VFD under voltage | Check to make sure the unit plug is fully seated in the electrical outlet. Reset the main circuit breaker for the oven. If error reappears contact service provider. |
| E-79 | 19 - Voltage sensor | Voltage monitor too high | Check to make sure the unit plug is fully seated in the electrical outlet. Reset the main circuit breaker for the oven. If error reappears contact service provider. |
| E-79 | 2 - Convection fan | VFD (upper) over voltage | Check to make sure the unit plug is fully seated in the electrical outlet. Reset the main circuit breaker for the oven. If error reappears contact service provider. |
| E-79 | 2 - Convection fan | Lower VFD over voltage | Check to make sure the unit plug is fully seated in the electrical outlet. Reset the main circuit breaker for the oven. If error reappears contact service provider. |
| E-80 | 2 - Convection fan | VFD (upper) memory error | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-80 | 2 - Convection fan | Lower VFD memory error | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-88 | 1 - Heater | Gas ignition failure (upper) | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or turning off the breaker. Inspect the top of oven for anything blocking the exhaust flue of the oven. Make sure the ventilation hood is turned on and working properly. Make sure the gas line is properly connected to the unit and the gas shut off valve is in the open position. Resume cook operation. If error reappears turn the oven off, shut off the gas supply to the oven and immediately contact service provider. |

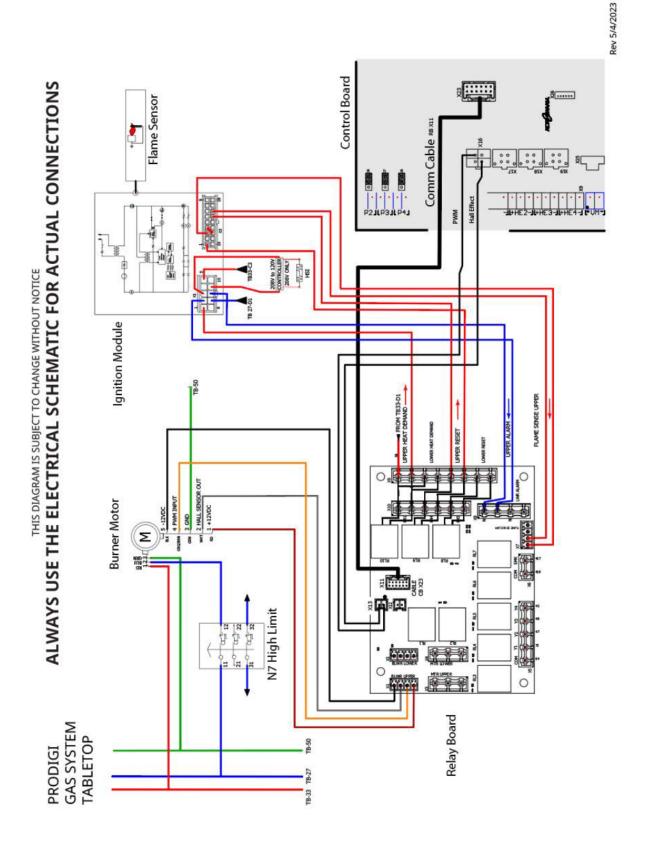


| Code | Component | Description | Troubleshooting steps |
|-------|--------------------------------------|---|---|
| E-88 | 1 - Heater | Lower gas ignition failure | 1. Power down control using on/off icon. 2. Cycle power to the oven either by unplugging the unit or turning off the breaker. 3. Inspect the top of oven for anything blocking the exhaust flue of the oven. 4. Make sure the ventilation hood is turned on and working properly. 5. Make sure the gas line is properly connected to the unit and the gas shut off valve is in the open position. 6. Resume cook operation. If error reappears turn the oven off, shut off the gas supply to the oven and immediately contact service provider. |
| E-90 | 1 - Heater | Gas blower failure (upper) | 1. Power down control using on/off icon. 2. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. 3. Resume use of oven. If error reappears contact a service provider. |
| E-90 | 1 - Heater | Lower gas blower failure | 1. Power down control using on/off icon. 2. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. 3. Resume use of oven. If error reappears contact a service provider. |
| E-93 | 8 - Control Board | State synchronization error between the interface board and control board | Clear error by pressing the check mark on the display to accept the error. If the error persists contact Alto-Shaam Technical Support. |
| E-94 | 10 - Control Board Communications | Communication error between Interface Board and Control Board | 1. Power down control using on/off icon. 2. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. 3. Resume use of oven. If error reappears contact a service provider. |
| E-94 | 2 - Convection fan | VFD (upper) communication error | 1. Power down control using on/off icon. 2. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. 3. Resume use of oven. If error reappears contact a service provider. |
| E-94 | 2 - Convection fan | Lower VFD communication error | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |
| E-102 | 59 - Ventless hood | Ventless hood filter Fault | Check if filters are installed. Check if filters are clogged. Check operation of hood fan. |



TROUBLESHOOTING

| Code | Component | Description | Troubleshooting steps |
|-------|-----------------------------|---|---|
| E-105 | 6 - Chamber | Low water pressure | Water supply not connected. Water supply is shut off. Water supply to unit blocked or obstructed (check filter). |
| E-109 | 6 - Chamber | Chamber high limit | 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-606 | 6 - Chamber | Error during cleaning cycle | Manually Clean Oven. Manually Rinse Oven. Ensure chemicals removed before use. Resume use of oven. If error repeats contact service provider. |
| E-999 | 48 - Personality handler | IB and CB dip switch settings not set correctly | Power down control using on/off icon. Cycle power to the oven either by unplugging the unit or by turning the main power switch off and then back on. Resume use of oven. If error reappears contact a service provider. |



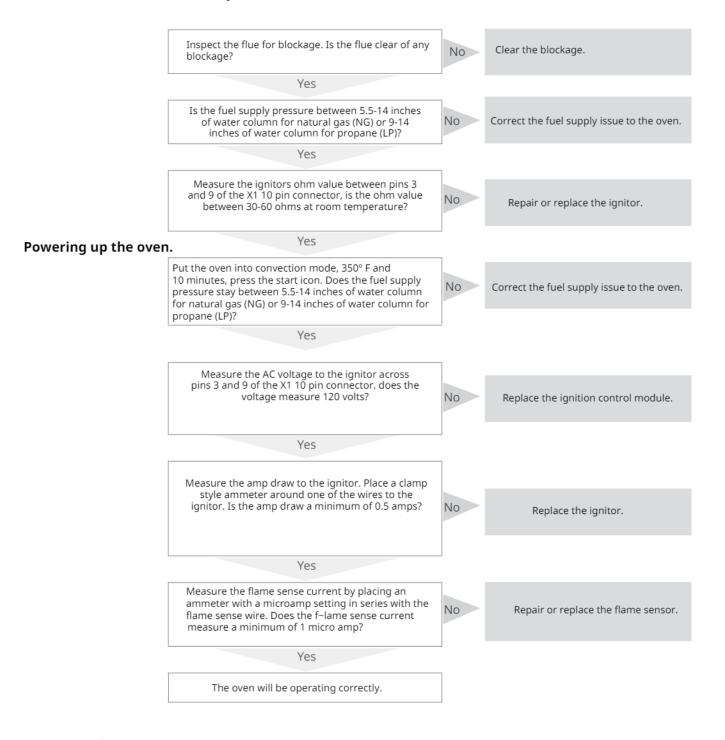
E88 Error - Gas Ignition Failure

This troubleshooting tree is based on a 7-20 120 volt oven. Remove the side panel.

Open the control panel and place it onto the support hooks.

Install a manometer onto the MIN test port.

Monitor the LEDs on the relay board.





• This troubleshooting tree is based on a 7-20 208/240V 3ph oven.

Prodigi: Oven Dead — No Display or Operation

Replace the Display assembly.

| 1 / 1 | | |
|---|----|---|
| Is electrical power connected to the oven? | No | Supply electrical power to the oven by turning on the main circuit breaker or plugging the oven in. |
| Yes | | |
| Is the voltage correct at the power source? | No | Inspect and/or reset the circuit breaker. |
| Yes | , | |
| Is the voltage correct at the main terminal blocks (L1/2/3)? | No | Repair or replace the faulty cord, plug, or wiring. |
| Yes | | |
| Is the voltage correct at the line side of the electromagnetic interference (EMI) Filter? | No | Repair the wiring between the main terminal block and |
| Yes | | the EMI Filter. |
| Is the voltage correct at the load side of the EMI Filter? | No | If there is no voltage on the load side of the filter replace the EMI filter. |
| Yes | | are Emmeen |
| Is the voltage correct at circuit breaker C/B 20 to L2 on the main terminal block? | No | Reset or replace circuit breaker C/B 20. |
| Yes | | |
| Is the voltage correct at circuit breaker C/B 5 to L1 on the main terminal block? | No | Reset or replace circuit breaker C/B 5. |
| Yes | | |
| Is the voltage correct across L and N terminals at the DC power supply? | No | Inspect/Repair the wiring between terminal block TB 33-1 and the power supply terminal L, and between terminal block TB 27-1 and the power supply terminal N. |
| Yes | | Disconnect power at the main breaker and remove the |
| Is there 12 VDC output from the DC power supply? | No | DC wires from the power supply. Apply power to oven. |
| | | Measure 12 VDC directly at the output of the power supply. |
| Yes | | If DC voltage is not present replace the power supply. |
| Is there 12 VDC across the Control Board (CB) connector X4 | | If there is DC voltage present inspect the DC circuit for shorts |
| pins 1-4? | No | Repair the wiring between the power supply and the |
| Yes | | control board (CB) connector X4. |
| Is there 12 VDC across the interface board (IB) connector J12 pins 1-4? | No | Repair the wiring between control board (CB) connector X4 and IB connector J12. |
| Yes | | IB connector 312. |
| Locate the back-light connector J3 on the IB. $\mbox{\bf PRO}$ (the left pin, pin 1 is | | |
| the common pin). Measure DC voltage from pin 1 to pin 2, pin 1 to 4, | No | Replace the Interface Board. |
| and pin1 to 6. Classic red to black, red to black. | | |
| Is there 12 VDC across each measurement? Yes | J | |
| | | Dealers the head, list to the |
| Check the back-light cable for breaks or pinched wires. Check continuity of the wires. Is the cable in good condition? | No | Replace the back-light cable. |
| Yes | 1 | |

Prodigi Pro, Electric: No Convection Heat

| Is the convection fan motor spinning? | No | See "Convection Motor Is Not Spinning". |
|---|----|---|
| Yes | _ | |
| Is the N6 oven temperature probe below set point? | No | The convection element contactors will not be energized until the N6 probe is below set point. |
| Yes | | |
| Are the K41 and K44 convection element contactors being energized. | No | Measure the AC voltage across the coil of K41 and K44 convection element contactors. If voltage is present, replace faulty contactor(s). If voltage is not present, determine which leg of AC voltage is missing and correct. A1 is L1 and it is supplied to K41 from the RB connector X10 pin 1. A1 is L1 and it is supplied to K44 from the RB connector X10 pin 3. A1 (turbo option)is supplied to K45 from the RB connector X10 pin 3. A2 is L2 and is supplied to K44 and K41 (NON-Turbo) from the N7 highinit terminal 11. A2 (turbo option) is supplied to K45 and then jumped over to A2 on K44 and K41. |
| Yes | | |
| Is there AC voltage being supplied to terminals 2-4-6 on the K41/K44 contactor's? | No | Repair the wiring issue between the main terminal blocks TB1-1, TB6-1, TB11-1 and the K41/K44 contactors. |
| Yes | | |
| Is there AC voltage across terminals 1-3-5 on the K41/K44 contactor's? | No | Replace faulty contactor(s). |
| Yes | | |
| Is there AC voltage across element loops at the convention elements? | No | Repair the wiring between contactors and elements. |
| Yes | | |
| Are all element loops drawing current? | No | Replace faulty element assembly. |

Prodigi: Electric, No Steam Production — Steam at 212°F (100°C)

**Steam below 212°F (100°C) – B5 will cycle off the Y1 solenoid at 10°F below the set temperature (example: Set Temp 200°F, B5 cycles Y1 off at 190°F)

| | _ | |
|---|----|--|
| Is the convection fan motor spinning? | No | See "Convection Motor Is Not Spinning". |
| Yes | | |
| Is the B5 probe below set point 204° F/ 96° C ? (In the service screen) | No | The oven will not call for steam production until the B5 probe is below set point. If the B5 probe is reading incorrectly, test the probe and replace it if necessary. |
| Yes | | |
| Are the K41 and K44 convection element contactors being energized? | No | Measure the AC voltage across the coil of K41 and K44 convection element contactors. If voltage is present, replace faulty contactor(s). If voltage is not present, determine which leg of AC voltage is missing and correct. A1 is L1 and it is supplied to K41 from the RB connector X10 pin 1. A1 is L1 and it is supplied to K44 from the RB connector X10 pin 3. A1 (turbo option) is supplied to K45 from the RB connector X10 pin A2 is L2 and is supplied to K44 and K41 (NON-Turbo) from the N7 h limit terminal 11. A2 (turbo option) is supplied to K45 and then jumped over to A2 on |
| Yes | _ | K44 and K41. |
| Is there AC voltage being supplied to terminals 2-4-6 on the K41/K44 contactor's? | No | Repair the wiring issue between the main terminal blocks TB1-1, TB6-1, TB11-1 and the K41/K44 contactors. |
| Yes | | |
| Is there AC voltage across terminals 1-3-5 on the K41/K44 contactor's? | No | Replace faulty contactor(s) |
| Yes | | |
| Is there AC voltage across the element loops at the convection elements? | No | Repair the wiring between contactors and the elements. |
| Yes | | |
| Are all element loops drawing current? | No | Replace the faulty element assembly. |
| Yes | | |
| Is the Y1 solenoid valve being energized? | No | Determine which line is missing at the solenoid: • A1 is L1 supplied from Relay Board (RB) connector X05 pin 4. • A2 is supplied from terminal block TB 27-B1. |
| Yes | _ | |
| Is the solenoid valve opening? | No | Replace faulty solenoid. |
| Yes | | |
| Is water being injected into the fan wheel inside the oven? | No | Correct the obstruction between the solenoid valve and the injection pipe |
| Yes | | |
| Oven will begin producing steam in 2-5 minutes. | | |
| | _ | |



Prodigi, Gas: No Steam Production — Steam at 212°F (100°C)

**Steam below 212°F (100°C) – B5 will cycle off the Y1 solenoid at 10°F below the set temperature (example: Set Temp 200°F, B5 cycles Y1 off at 190°F)

| Is the convection fan motor spinning? | No | See "Convection Motor Is Not Spinning". |
|---|----|---|
| Yes | | |
| Is the Steam Bypass Temperature Probe B5 below the set point? 204° F/ 96° C (In the service screen) | No | The oven will not call for steam production until the B5 probe is below the set point. If the B5 probe is reading incorrectly, test the probe and replace if necessary. |
| Yes | | |
| Is the burner igniting? | No | See "No Combustion On A Call For Heat". |
| Yes | | |
| | | Determine which AC line is missing at the Y1 solenoid valve. |
| Is the Y1 Solenoid valve being energized? | No | A1 is L1 supplied from the Relay Board (RB) connector X5 pin 4. A2 is L2 supplied from terminal block TB27-B1. |
| Yes | _ | |
| Is the Y1 solenoid valve opening? | No | Replace the faulty solenoid valve. |
| Yes | | |
| Is water being injected into the fan wheel inside the oven? | No | Remove the obstruction between the Y1 solenoid valve and the injection pipe |
| Yes | | |
| The oven will begin producing steam in 2 to 5 minutes. | | |

Prodigi Pro Only: Convection Motor Is Not Spinning (E05)

| Is the convection fan wheel physically blocked? | Yes Remove the obstruction from the fan wheel and retest. |
|---|---|
| No | |
| Is the Controller Area Network (CAN) cable properly seated at Variable Frequency Drive (VFD) S600 connector and the Control Board (CB) connector X27? | |
| Yes | |
| Is there continuity from end to end on all CAN cable wires? | No Replace the faulty CAN cable and retest. |
| Yes | |
| Reconnect the cable, Measure AC voltage on the Variable Frequency Drive (VFD) at S105 across L & N. Is there AC voltage present? | No Determine which leg of AC power is missing. L (L1) on the S105 gets voltage from Circuit Breaker C/B 4. Check that the C/B is not tripped. N (L2) gets power from Relay 50. Make sure Relay 50 is energized and closing. |
| Yes | |
| Is there a solid green LED light on the VFD? | No If the LED light on the VFD is blinking, please reference the Touch Motor Control Error Codes page in the Service Manual. |
| Yes | |
| When running a cook mode, does the fan start to spin? | No Check voltage out of the VFD on any two wires using connector S500 (brown, blue, and black wires). If there is AC voltage Replace the faulty motor. |
| Yes | 0 1 |
| | |
| With the motor running, does the Revolutions Per Minute (RPM) appear in the service screen? | No Check the Hall Effect sensor wiring from the motor. |
| | |
| Yes | |
| Replace the VFD. | |

Touch Motor Control Error Codes

The LED is located on the variable frequency drive (VFD) 1 of the oven.

| Type of Error | Indication | Cause of Error |
|-----------------------|---|---|
| Undervoltage | LED flashing sequence, with 1 flash per period. | Voltage of intermediate circuit is less than 250V. |
| Overvoltage | LED flashing sequence, with 2 flashes per period. | Voltage of intermediate circuit exceeds 445V. |
| Excess Temperature | LED flashing sequence, with 3 flashes per period. | Temperature sensor in the power unit is more than 199°F (93°C). |
| Current Peak | LED flashing sequence, with 4 flashes per period. | Blocked motor, detected by current peak monitoring from 900 rpm rotating field. |
| Overcurrent | LED flashing sequence, with 5 flashes per period. | Intermediate circuit current exceeds 4.0A. |
| Short-circuit | LED flashing sequence, with 6 flashes per period. | Release of interrupt at intermediate circuit current larger than 53.0A. |
| Power on | LED flashing sequence, with 7 flashes per period. | Effective mains voltage does not correspond to jumper setting 115V/230V. |
| Watchdog | LED flashing sequence, with 8 flashes per period. | Watchdog of the microcontroller released, program crash. |

Prodigi: No Grease Collection Operation

Remove pump and clear obstruction between condensate pan and pump, or between pump and grease collection bin.

Is the oven equipped with a grease collection (GC) pump? No Grease collection system is not available. Yes Make sure the control board DIP switch S1-#5 is in the "ON" position. Turn on grease collection in option set up screen. No Is the control set up to operate a GC system? Contact the Alto-Shaam Technical Support Yes Is grease collection activated in the cooking program? No Activate grease collection in the program and retest. Yes Determine which leg of the power is missing and correct. • A1 is L1 being switched from Option Board (OB) Is the grease collection pump being energized on its timed cycle? connector X1 pin 5 No • A2 is L2 supplied by TB 27-E3. Yes No Replace the faulty grease collection pump. Is the grease collection pump running? Yes

Prodigi: No Liquid Clean Injection

| | Is the oven equipped with a Liquid Cleaning (LC) system? | No | Liquid cleaning system is not available. |
|---|---|----|---|
| | Yes | | |
| | Is the control set up to operate liquid cleaning chemical injection? | No | Make sure the control board DIPswitch S1-#5 is in the "ON" position. Turn on liquid clean injection in option set up screen. |
| | Yes | | Contact the Alto-Shaam Technical Support |
| | Is the liquid soap injection(LSI) Pump being energized on its timed cycle? Yes | No | Determine which leg of the power is missing and correct. A1 is L1 supplied from the Option Board (OB) connector X3 pin 1. This circuit is fuse protected by LSI F15 fuse. Test fuse and replace if bad. A2 is L2 supplied from the Terminal block (TB) 46-A4. |
| | Is the LSI Pump running? | No | Replace the faulty LSI pump. |
| | Yes | | |
| | Is the LSI pump hose connected to a chemical jug? | No | Connect the hose to the chemical jug and retest. |
| | Yes | 1 | |
| | Is there chemical inside the chemical jug? | No | Replace the chemical jug and retest. |
| | Yes | | |
| | Is the hose between the LSI pump and the liquid chemical jug free of obstruction or pinching? | No | Replace or correct as needed. |
| | Yes | | |
| | Are you able to prime the LSI pump through the service | No | Inspect the LSI Pump hose and replace as needed. |
| | mode function? | | |
| I | Yes | 1 | |
| | Retest the cleaning cycle. | | |



Prodigi: No Smoke Production During the Smoke Cycle

Make sure the smoke tray is installed with soaked wood chips and that the smoke icon has been selected on the touch control. Steam production and humidity control vents take priority over smoke production.

The smoke option is not available with a vent-less hood.

Smoke element will be working.

Check circuit breaker C/B 8 and reset if tripped.
 Measure AC voltage at connector X6 pin 1 on the relay board (RB) to terminal block TB 27 D3.
 If no voltage is present, measure AC voltage at RB connector X6 pin 2 to TB 27 D3.

 If there is voltage then replace the RB.

Measure the amperage to smoker element by clamping an ammeter on one wire. Is there amperage?

No

Check wiring at smoke element. Replace smoke element.

Prodigi: No Rinse Water During the Cleaning Cycle

| During the Rinse Cycle, is the Y3 solenoid being energized? | No | Determine which leg of the power is missing at the Y3 solenoid and correct. • A1 is L1 supplied from the Relay Board (RB) connector X5 pin 2. • A2 is L2 supplied from terminal block TB27-B3. |
|---|----|--|
| Yes | | |
| Is the Y3 solenoid opening? | No | Replace the faulty solenoid. |
| Yes | | |
| Is water present at the injection pipe in the oven? | No | Clean or repair water manifold and/or hose from manifold to the injection pipe. |
| Yes | | |
| Is the injection pipe clear of debris? | No | Repair or replace the injection pipe as needed. |
| Yes | | |
| The rinse water plumbing will be working properly. | | |

Prodigi: Cleaning System is Not Operating

The cleaning pump and plumbing circuit will be working properly.

Determine which leg of the power is missing at the Y4 wash pump and correct. Is the Y4 cleaning pump being energized at its timed cycle? No • A1 is L1 from the Relay Board (RB) connector X5 pin 1. • A2 is L2 supplied from terminal block TB 27-B4. Yes No Replace the faulty cleaning pump. Is the Y4 cleaning pump running? Make sure the condensate pan clean out hose is unplugged Is there water at the pump inlet? No and that the Y2 cooling water solenoid is operating properly. Yes Inspect or replace the hose between Y4 cleaning pump and Is there water at the water manifold inlet from the Y4 pump? No the water manifold. If the hose is okay, replace the faulty Y4 cleaning pump. Yes Remove the obstruction between the water manifold and the No Is there water at the injection pipe? injection pipe. Is the injection pipe clear of debris? No Clean or replace the injection pipe as needed. Yes

Prodigi PRO ONLY: Error Code E94

NOTE: The single variable frequency drive (VFD) in a table top oven will be identified as the "UPPER" or #1 VFD. The two VFDs in a roll-in oven will be identified as the "UPPER" or #1 and the "LOWER" or #2 VFD.

Disconnect the VFD communication cable at the control board (CB) connector X27, are you still getting the E94 error? Tabletop oven - replace the VFD. Disconnect the interface board Roll-in oven with two (2) VFDs, reconnect (IB) to control board (CB) the X27 connector and disconnect controller area network (CAN) VFD #1 - S600 connector. cable at the CB connector X6. Replace the VFD Still getting an E94 error? Replace Yes the No Still getting an E94 error? VFD #1. Disconnect both ends of the CAN cable, inspect the terminals Yes and firmly reattach the CAN cable. Reconnect the VFD #1 - S600 connector. The oven will Disconnect the VFD #2 - S600 connector. No Still getting an E94 error? operate properly. Replace Yes the No Still getting an E94 error? VFD #2. Replace the CAN cable. Yes The oven will Still getting an E94 error? No operate properly. Replace the VFD cable. Yes The oven will operate properly. Replace the CB. If not, restart at the top of page. The oven will Still getting an E94 error? No operate properly. Yes Replace the IB. The oven will No Still getting an E94 error? operate properly. Yes Contact the Alto-Shaam Technical Service team.

Prodigi Pro: Fan Motor Over Temp E31

| Is the convection fan spinning? | No | See "Convection Motor Is Not Spinning". |
|---|----|---|
| Yes | | |
| Is the motor high-limit wiring to the Variable Frequency Drive (VFD) secure? | No | Secure the wiring and retest. |
| Yes | | |
| | | |
| Remove the S300 and S301 connectors from the VFD, measure continuity across the 2 wires. Is there continuity? | No | Replace the motor. |
| | | |
| Yes | | |
| Check fan wheel and make sure the motor spins freely. Does the motor spin freely? | No | Remove any obstruction causing the fan wheel to lock up. Replace the motor. |
| Yes | | |
| Replace the VFD | | |

Schematics

77790

6.10,10.10,7.20 380-415V 3Ph



77791

6.10 208-240V 1Ph



77792

6.10, 10.10, 7.20 208-240V 3Ph



77794

6.10,10.10,7.20 440-480V 3Ph



77796

10.20 208-240V 3Ph



77797

10.20 380-415V 3Ph



77798

10.20 440-480V 3Ph



77799

xx-xx xx-xx xx-xx Ph INTENTIONALLY BLANK

77800

xx-xx xx-xx xx-xx Ph

INTENTIONALLY BLANK

77801

xx-xx xx-xx xx-xx Ph

INTENTIONALLY BLANK

77802

20.20 208-240V 3Ph



77803

20.20 380-415V 3Ph



77804

20.20 440-480V 3Ph



77807

6.10,10.10,7.20,10.20 120V **NG/LP**



77808

6.10,10.10,7.20,10.20 208-240V / 380-415V **GAS**



77809

20.10,20.20 120V **GAS**



77812

20.10,20.20 208-240V **GAS**







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