

Kiln Cautions

FREE PDF Download at: hotkilns.com/cautions

VIEWING INTO KILN

Use dark glasses (shade number 1.7 to 3.0) to view inside the kiln through the peepholes when firing.



KEEP FLAMMABLES AWAY FROM KILN



Do not put sealed containers or combustible materials such as solvents, paper, rags, in or near kiln. An explosion or fire could result.

TURN OFF POWER WHILE LOADING

Turn off power to the kiln when loading or servicing.



CHILDREN & PETS

Protect any children, animals, and unqualified adults (anyone who is not able to understand these cautions) that may be near the kiln.

VENTILATION IS ESSENTIAL

Kilns generate
harmful fumes when
firing ceramics. Fumes include carbon
monoxide, sulfur oxides, hydrogen
fluoride and metal vapors (all of which
can be very toxic).

DO NOT STORE ANYTHING ON LID

Do not use the lid as a storage shelf.
The lid could crack.



DO NOT FIRE TOXIC, FLAMMABLE, OR UNKNOWN MATERIALS

Flammable or unknown materials can decompose under heat causing the release of highly toxic fumes or rapid uncontrollable combustion.

NO EXTENSION CORDS

Locate the outlet close enough to the kiln to plug directly into it with the kiln's supplied power cord.



SURFACE IS HOT AND CAN CAUSE BURNS

Kiln surface can be extremely hot: up to 500°F(260°C). You can be severely burned if you touch the hot surface.

ATTEND THE FIRING

We recommend attending the kiln while firing. Be especially careful about attending the kiln when it is scheduled to shut off.



ELECTRICAL SAFETY

Lock out all electrical power before repairing kiln. Have electrical installation performed by a licensed electrician.



FIRE EXTINGUISHER

Keep an adequate fire extinguisher near the kiln and check it on a regular basis.



DO NOT OPEN DOOR ABOVE 250°F

Do not open the kiln door until the kiln has cooled down to 250°F (120°C).



DO NOT UNLOAD KILN WHILE HOT

You may burn yourself or you may harm your work.



KEEP LID CLOSED WHEN KILN IS NOT USED

Keep lid closed when not operating the kiln. Keeping the lid closed will keep out dust and extend the longevity of your kiln.



SPRINKLER CAUTIONS

If you have a sprinkler system be careful to check the temperature rating and location of the heads so that you do not inadvertently cause them to activate under normal firing conditions.

AVOID LOOSE/ FLAMMABLE CLOTHING

When working around a hot kiln be careful of the kinds of clothes you are wearing. Some clothes could potentially catch on fire if they touch the hot surface of a kiln.

KEEP KILN DRY

Kiln must be kept dry and protected from moisture. It is best to keep kiln in an enclosed room away from inclement weather and dew formation.



WHAT'S INSIDE Unpacking

Your Plug-N-Fire will arrive in two separate boxes. Box 1 (blue) contains the main ring and the Genesis mini controller, while Box 2 (red) contains the stand, bottom, lid, and furniture kit. Unpack both boxes and keep everything organized.

VENTILATION

- No Vent Needed: Compact design eliminates dedicated vent system.
- Ventilation Tip: Use in a wellventilated area for performance, air quality, and safety.



IMPORTANT KILN CALIBRATION

Get To Know Your Kiln

hotkilns.com/support/kiln-calibration

Review our guides on kiln calibration and using pyrometric cones. Always fire with witness cones to verify accuracy and make necessary adjustments.

IMPORTANT: Your Plug-N-Fire kiln will likely fire hotter than programmed due to its additional backup insulation. To compensate, use **Cone Offsets** to fine-tune the firing results. we recommend starting with a **-50 Cone Offset** at each cone you plan to fire to, and adjusting as needed. See **Page 13** for more information.



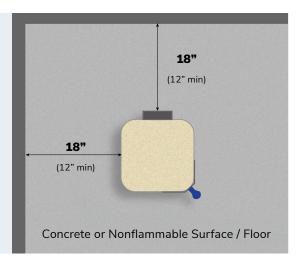
Because of its smaller size, the Plug-N-Fire cools faster than larger kilns. To mimic the natural cooling curve of a larger kiln, program a controlled cooldown: drop **100°F**, then cool at **175°F per hour to 1500°F**. This method should have minimal impact on overall heat work.

INSTALLATION

Placement

hotkilns.com/instruct/plug-n-fire

- Floor Surface: Use non-combustible surfaces (cement, ceramic, stone, slate, cinder blocks, brick).
- Avoid: Wood, vinyl, carpet; protect linoleum with a non-combustible covering.
- Work Table: May be placed on a non-combustible raised table.
- Clearance: Maintain 18" clearance from non-combustible walls,
 12" minimum; 3 feet from combustible surfaces.



PRE-ASSEMBLY

Element Check





Make sure the elements rest completely in the channels

REMOVE

Element Clips

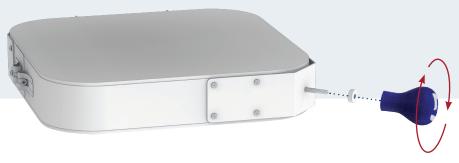


Remove transport clips from element channels located in the kiln body.

PRE-ASSEMBLY

Handle Attachment

Place ceramic washer on handle bolt and twist the handle until firm. Do not over tighten

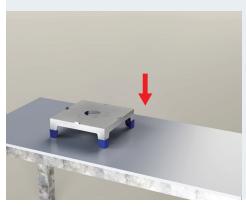


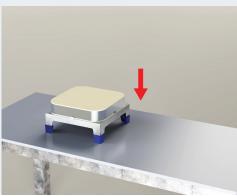
ASSEMBLY

Base Setup

hotkilns.com/instruct/plug-n-fire

- 1. Place the metal base
- 2. Place kiln bottom on stand.
- 3. Place the kiln body







ASSEMBLY

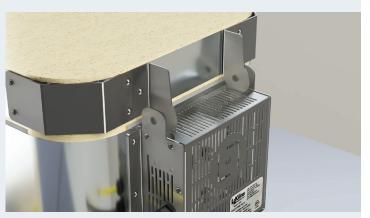
Hinge Assembly

4. Place the lid, align like shown

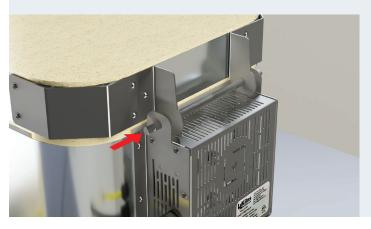


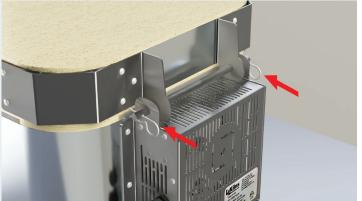


6. Insert hinge bar



7. Use 2 cotter pins to secure bar in place

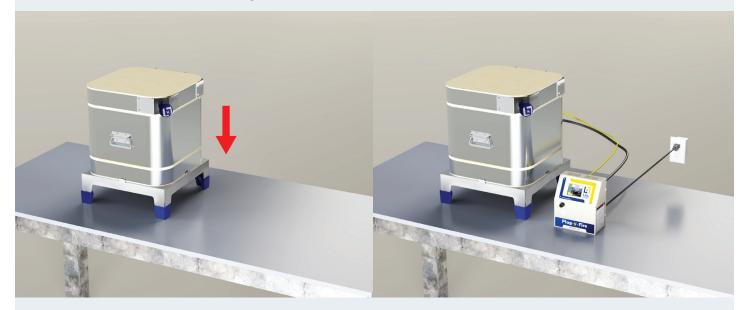




ASSEMBLY

Control Setup

8. Place the control box in place



9. Connect the power wire and thermocouple wire between controls and element box.



Ready To Fire!

Plug in and move on to your first firing!



View online video or check the genesis manual for first firing

hotkilns.com/genesis/first-firing



TALL STAND

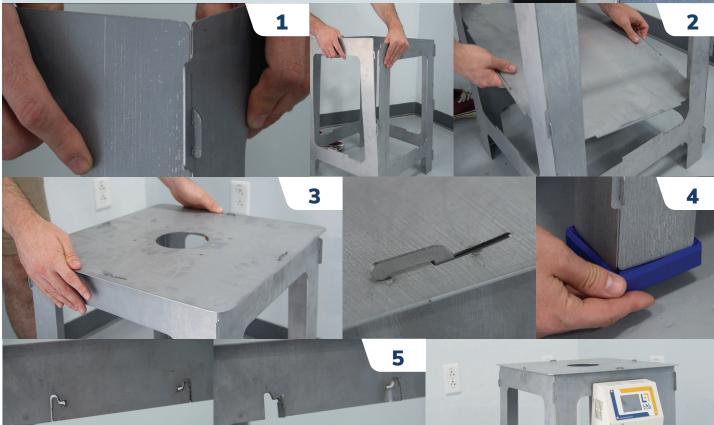
No hardware needed for assembly

Comes with 4 sides, 1 platform (hole in center) and 1 Shelf

- 1. Slot together the 4 sides of the tall stand.
- 2. Place the shelf at the base of the 4 assembled sides
- 3. Put the top platform on, align and twist to lock in the tabs
- 4. Place the 4 plastic feet on the bottom of each leg (4)
- 5. If desired, bend out the tabs to hang your controls

*Tall stand does not have a rolling option







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Details and Assembly Video

hotkilns.com

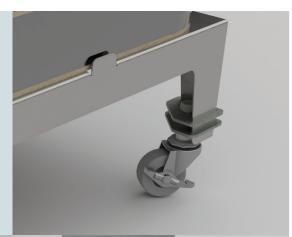
/kiln-accessories/tall-stand-plug-n-fire

ROLLING STAND UPGRADE

Works with standard Plug-n-Fire stand.

Comes with 4 caster wheels with slotted brackets.

- 1. Place each caster on the tapered legs of the Plug-n-Fire stand
- 2. Press down to nest each caster onto the legs using the top of the stand.
- 3. Place your Plug-n-Fire on the stand and get rolling!
- *Tall stand does not have a rolling option







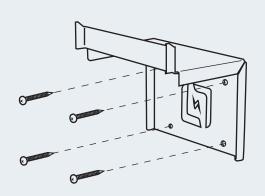


Details At

hotkilns.com

/kiln-accessories/rolling-stand-plug-n-fire

WALL-MOUNT BRACKET





Details at

hotkilns.com /kiln-accessories /wall-mount-bracket -plug-n-fire

Use appropriate anchors based on where you choose to mount (Drywall anchors, wood screws, masonary screws, etc.) **Screws are not included with mount.**

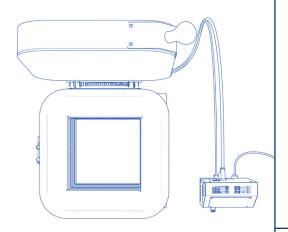


TROUBLESHOOTING

hotkilns.com/pnftroubleshooting







LOADING & SHELF PLACEMENTS Option 1:

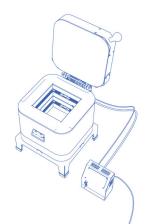
Firing Without A Shelf

Apply kiln wash to the kiln brick base.

Pro: maximize firing area.

Con: potentially damage the soft brick / less air circulation.

Fix: if glaze sticks and damage occurs the base is not attached and can be flipped over.



Option 2:

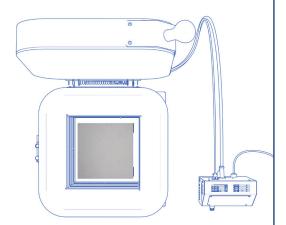
Firing With A Shelf Only

Apply kiln wash to the shelf and place directly on the base of the kiln.

Pro: maximize firing area / protect base.

Con: less air circulation.





Option 3:

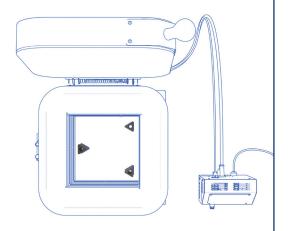
Use The Provided Furniture Kit

Pro: good air flow.

Con: less height in firing area.







FIRST FIRING



Details at

hotkilns.com /support/first-firing

PURPOSE OF FIRST FIRING

- Removes any moisture from firebrick and sets brick coating
- Forms a protective oxide layer on elements.
- Identifies electrical issues (e.g., wrong voltage or wiring).
- Helps elements settle into holders.

BEFORE YOU START

Check elements

- Ensure all elements are fully seated in holders—no coils hanging out.
- Stretch coils slightly if needed; vibration during transit may cause shrinkage.

Fire without ware

• Fire without any ware to prevent fumes from damaging the element coils.

Fire with kiln furniture

- Fire with evenly spaced shelves to help with heat circulation and prevent rapid, uneven cooling.
- Apply kiln wash to shelves during this firing if desired.

Fire with cones

- Place cones near thermocouples, at least 2" away from tips.
- We include 04 cones and a recommended firing schedule, but you're welcome to use your own.

Venting

- With Vent-Sure: Leave vent on; keep lid closed and peephole plugs in.
- Without Vent-Sure: Remove top peephole plug during first firing for airflow.

RECCOMENDED FIRING SCHEDULE

Ceramic Glaze Cone 04 Medium (Firing Time: ~8 hours)

Segment	Firing Rate	Setpoint Temp (F)	Hold Time
1	150	180	0:00
2	150	250	0:00
3	400	1695	0:00
4	120	1945	0:00

GENESIS PROGRAMMING STEPS

- 1. Press LOAD
- 2. Press GLAZE
- 3. Current setting will display—press OK
- 4. Press EDIT
- 5. Set CONE# to CONE 04

- 6. Set SPEED to MEDIUM
- 7. Hold should remain at 0.00
- 8. Press BACK, returning to the Main Menu
- 9. Press START
- 10. Choose to start now, later, or remote

^{*}Follow the link or QR code for a more detailed first firing guide and Dynatrol programming steps.*

KILN CALIBRATION



Details at hotkilns.com /support/operation/ calibration

OVERVIEW

New kilns sometimes overfire and may need to be calibrated.

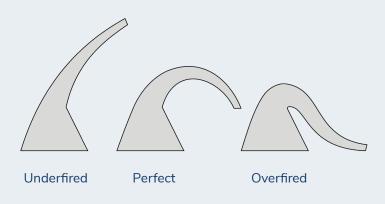
Calibration can also become necessary as elements and thermocouples age. Always use witness cones to verify accuracy and adjust as needed. For detailed instructions, see our guides on kiln calibration and using pyrometric cones.

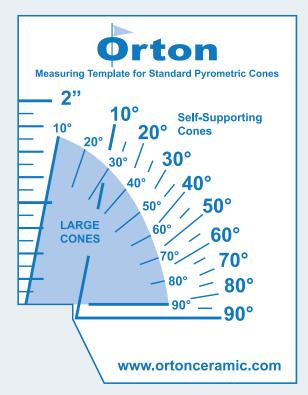
BASIC PROCESS:

- 1. Fire to your target cone using a full cone pack(guide, target, guard) in each kiln section.
- 2. After firing, inspect the cones and adjust as needed:
 - If the entire kiln is off, apply a **Cone Offset** for that specific cone number.
 - If one section is off in a multizone kiln, apply a **Thermocouple Offset** to even out that zone.
- 3. Use our Offset Calculator to help estimate the right adjustment:



Details at hotkilns.com /support/cone-offsetcalculator





GENESIS FIRMWARE UPDATES

If using the Genesis Control, periodically check for firmware updates. See the Genesis Control Manual for more details.



Details at hotkilns.com /support/operation/ genesis-control



ONLINE SUPPORT INDEX



Details at hotkilns.com/support



INSTALLATION

Space and wiring guidelines, site-preparation checklist — everything you need for kiln installation support.

Pages:

- Overview
- Checklist



VENTILATION

Best-practice for downdraft and hood vents, airflow calculators, and health-and-safety guidelines for kiln ventilation.

Pages:

- Overview
- Vent-Sure Instructions
- Vent Control



OPERATION

Controller programming videos (Genesis®, One-Touch™, Dyna-Trol), calibration guides, and firing-profile templates for precise kiln operation support.

Pages:

- Genesis
- Dynatrol
- One Touch Control
- Manual Control

- First Firing
- The Ceramic Process
- Calibration
- Pyrometric Cones
- Orton Firing Tips



MAINTENANCE

Element replacement, thermocouple testing, brick repair, and preventive-maintenance focused on long-term reliability.

Pages:

- Routine Maintenance
- Changing Elements
- Changing Thermocouples
- Changing Relays

- Changing Transformers
- Changing Controls
- Changing Fuses & Fuse Holders
- Brick Repair

ONLINE SUPPORT INDEX



DIAGNOSTICS

Troubleshooting flowcharts, complete error-code tables, and electrical-supply tips so you can quickly resolve kiln troubleshooting issues.

Pages:

- General Diagnostics
- Electrical Diagnostics
- Error Codes
- Paper Test

- Element Diagnostics
- Firing Log
- Genesis Log



SERVICE

How to get service, how to prepare for a service call or visit, how to hire an electrician, warranty help, and for urgent kiln repair help.

Pages:

- Get Service
- Warranties



RESOURCES

Knowledge-base articles, PDF libraries, wiring diagrams, legacy manuals, external links, and our video library — a deep archive of ceramic-kiln resources at your fingertips.

Pages:

- Video Library
- PDF Library
- Knowledge-Base
- External Links

- Discontinued Kilns
- Receiving
- Wiring Diagrams
- Dimension Drawings



CAUTIONS

Critical safety notices, high-temperature handling advice, and best practices to protect people, property, and your kiln investment.

Pages:

- Cautions Overview
- Cautions Poster
- Safety Data Sheets

Upgrading Your Elements

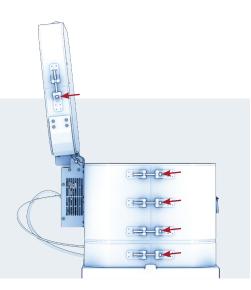
The Plug-N-Fire is designed to reach cone 10 on a standard 120 V outlet, though performance may be affected if your household voltage runs low. Frequent cone 10 firings can shorten element life, so if you high-fire often, consider upgrading to our 1,800 W elements—they hold up better under sustained heat but require a dedicated 120 V / 20 A (NEMA 5-20) circuit, common in newer homes.



hotkilns.com/kiln-elements/plug-nfire-pf8-120v-1800w-15a-element

Moving Your Kiln

If you need to relocate the Plug-N-Fire kiln, you can easily disassemble and reassemble it at the new location. However, it's crucial to be aware that kilns expand and contract during the firing process, which can cause the steel case to loosen over time. Therefore, if the kiln has been fired, ensure you tighten the steel case before moving it. This precaution helps maintain the kiln's structural integrity and ensures safe transport.



Wiring Diagrams

Electrical Installation: Have all electrical installations performed by a licensed electrician or qualified technician to ensure safety and compliance with electrical codes. Do not use aluminum wire for the final

connection to the kiln. Route the power cord (or electrical connection wires) away from the kiln so that it cannot touch the hot case of the kiln or run under the stand. Never use an extension cord with your kiln. Follow the amperage rating on the diagram or the kiln specifications on the website to ensure proper fusing and wire gauge selection. Note that the recommended wire gauge for kiln hookup is based on 75 °C wire. Adjust the wire accordingly for the length of the run to the kiln and any local conditions, such as excessive heat.



Download wiring diagrams: hotkilns.com /support/resources/ wiring-diagrams