
evenheat

This guide will walk you through taking delivery of your new Evenheat Studio Pro Series Kiln. It will also provide instructions on how to remove the kiln from the pallet and disassembly for placement of the kiln.

Prior to taking delivery you should have your ultimate kiln location determined and properly set up as well as proper electrical service installed. For complete information refer to the Technical Specifications document for Evenheat Studio Pro kilns, available from Evenheat

Studio Pro kilns are not difficult to set up but it will take some time. Many of the procedures require at least 2 people to accomplish. There is lifting and setting involved and set-up personnel should be chosen from those who are capable of lifting and maneuvering objects weighing 50 pounds or more.

Figure 1 – As Delivered

Your kiln will arrive via a freight truck.

Generally a “Lift-Gate” option is requested at the time of order or shipping. A Lift-Gate is a movable portion of the delivery trailer and allows the freight company to lower the delivery to ground level where it can usually be slid off by hand.

If a Lift-Gate is not requested for delivery the freight company will simply move the package to the rear of the trailer with the expectation that you will be able to remove it safely. The only way to remove it safely is with a fork-truck. The freight company is not required to remove it from the trailer for you.

After the unloading process, position your kiln in an area free of clutter and easily accessible to make the un-boxing and disassembly process easier.

Figure 2 - Cutting the Straps

The box containing the kiln and shelf (if ordered) is strapped to the pallet by poly strapping.

Using side-cuts or a knife, remove all black straps. After cutting all straps, discard them.

Figure 3 - Unpacking

Remove the lid of the box, as well as the foam inside.

The packaging material (other than the straps) will be useful later on in the disassembly/assembly process.

Do not discard the cardboard or foam…yet.

Figure 4 - Remove Tube

Remove the tube of the packaging. It is a fairly large piece of cardboard.

We recommend having two people to lift this portion off.

Figure 5

After removal of the tube, you will find your new Studio Pro Series kiln fastened to the decking on the pallet.

You will also see a box which contains your hardware and tools and several assembly parts fastened to the decking as well.

Figure 6 - Remove Assembly Parts

The assembly parts are screwed to the decking of the pallet.

Using a screwdriver or drill if available, remove the screws.

Figure 7 - Open Parts Box

Open the box containing the hardware and assembly tools.

Inside the box you will find:

Kiln Operation Manual
2 or 4 Springs (Depending on Model)
1 – 1/8” Hex Key
1 – 1/4" Nut Driver
1 – Evenheat 11/32” Two-Fingered Wrench
2 – Acorn Nuts
2 – T-Nuts

Additional tools (not included) needed for installation - 7/16” socket or wrench, pliers, side-cuts (diagonals).

****Optional – If rolling casters were purchased with the kiln, there will be 2 locking casters, 2 non-locking casters along with 16 bolts and lock washers ****

Figure 8 - Parts Box Contents

Contents of parts box.

****Note this image includes the optional rolling casters****

Figure 9 - Power Cord

The power cord for the unit will be fastened down with a screw and a zip tie.

Using side-cuts, cut the zip tie to free the power cord

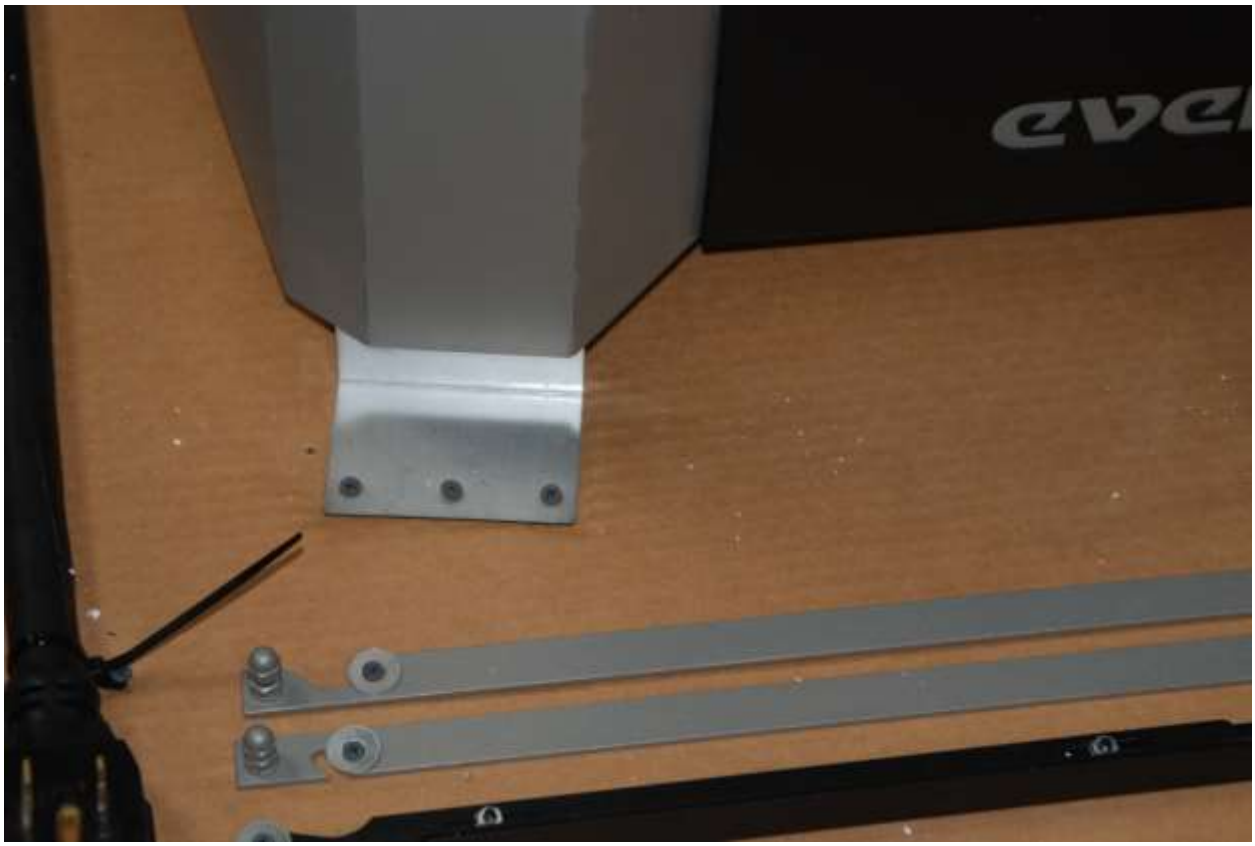

Figure 10 - Shipping Brackets

The kiln is fastened down to the pallet decking using the brackets as shown above.

Remove all screws to free the kiln from the pallet. Make sure to double check you have freed all 4 brackets.

Figure 11 - Lid Handle Bungee

The Lid handle is attached to the pallet as well. This is done using a bungee-style strap.

To remove the bungee-style strap simply slide each end off of the handle. At this point your kiln is completely free of the pallet.

Figure 12 - Disconnect Power Cables

For disassembly, the lid will need to be removed.

Before we do that, we need to disconnect the electrical power cord connections made between the lid and the kiln control center.

There are three plugs that will need to be unplugged. Above a user is unplugging 1 of the 3.

Figure 13 - Control Cable Connection

The last cable to remove is the control cable connector.

The collar on the connector will spin counter clockwise (Left) to unlock the cable for removal.

This connection is keyed, meaning when re-inserting the connection, it must be lined up correctly.

Figure 14 - Removing Cable Management Rod

Remove the cable management rod.

This rod is located directly on the back of the chamber near the thermocouple. This rod keeps the cables in place but to remove the lid we must remove the rod.

Simply pull a pin on the rod and remove (we recommend placing the pin back in the rod once removed so it isn't misplaced).

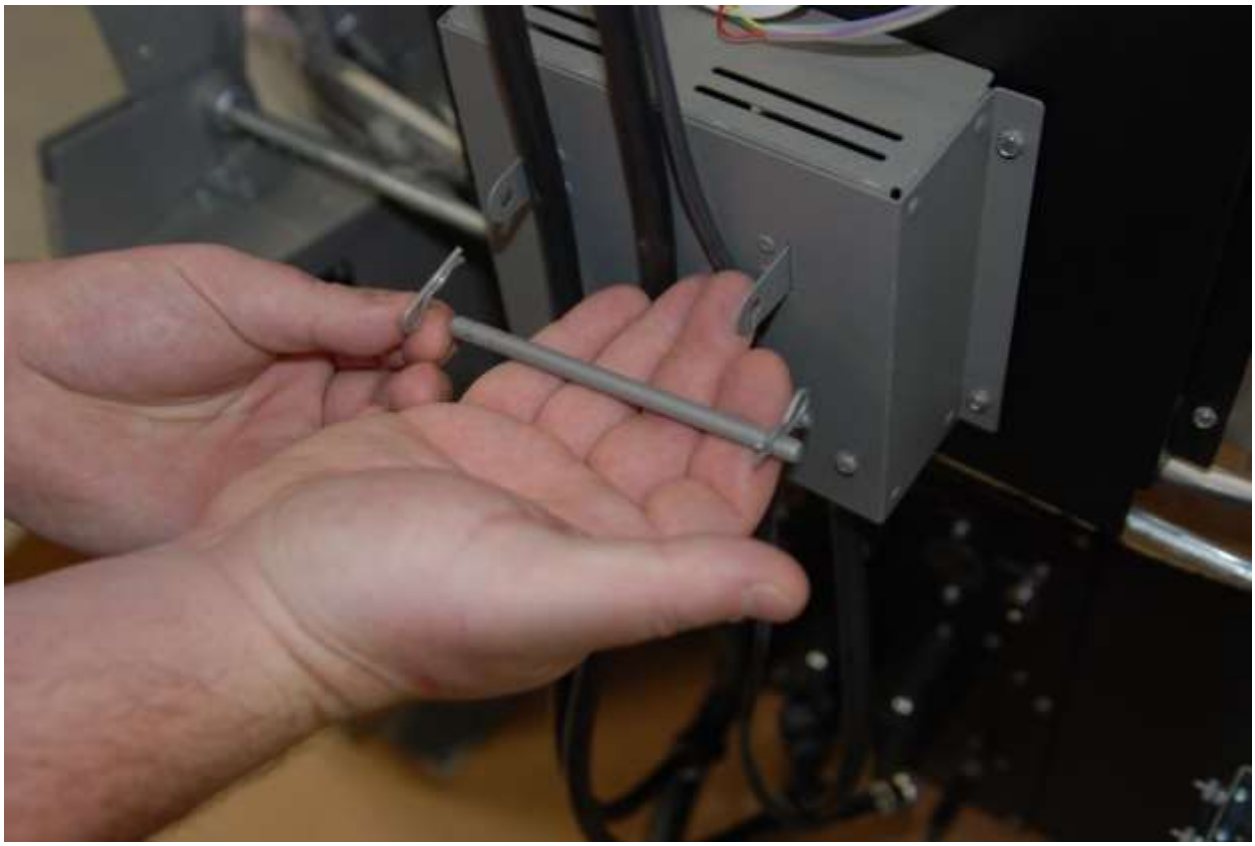

Figure 15 - Cable Management Rod Removed

Figure 16 - Remove Thermocouple

Remove the thermocouple from the back of the chamber.

There are two Phillips screws holding the thermocouple in, remove these to free the thermocouple.

Figure 17 - Thermocouple Removed

Thermocouple removed from the chamber.

Removing the thermocouple is very simple, once the screws are loose, gently pull out the thermocouple.

You may need to wiggle it a little to help guide it out of the chamber.

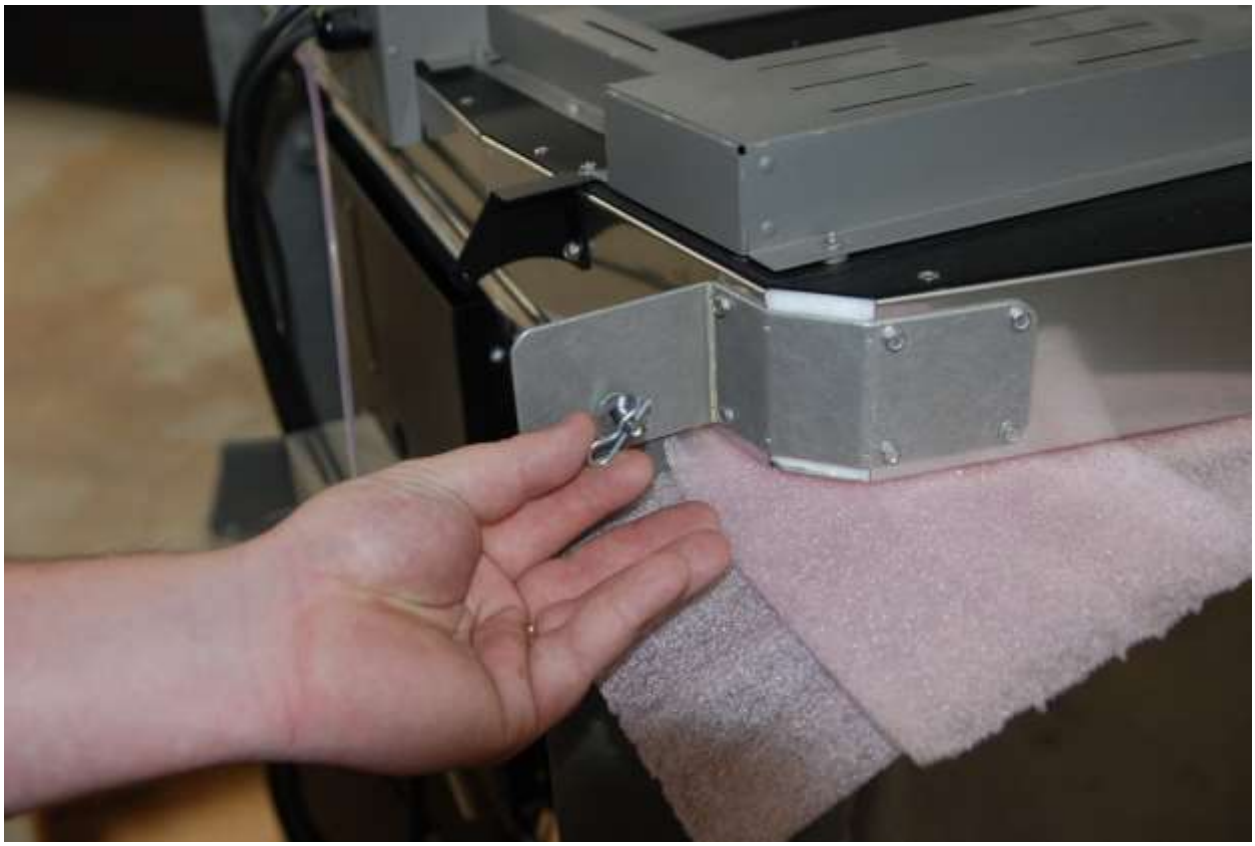

Figure 18 - Removing Hinge Rod

Remove the lid hinge rod.

This is very similar to removing the cable management rod.

Simply remove the pin and washer on one side of the rod and feed the rod out of the brackets.

Figure 19 - Hinge Rod Removed

Figure 20 - Note Lid Hinge Placement

Remove the lid. This operation is a 2-person operation. Do not attempt to remove the lid using a single person.

The above image is to show the location of the lid bracket in relation to the chamber bracket. Note that the lid bracket goes on the outside of the chamber bracket.

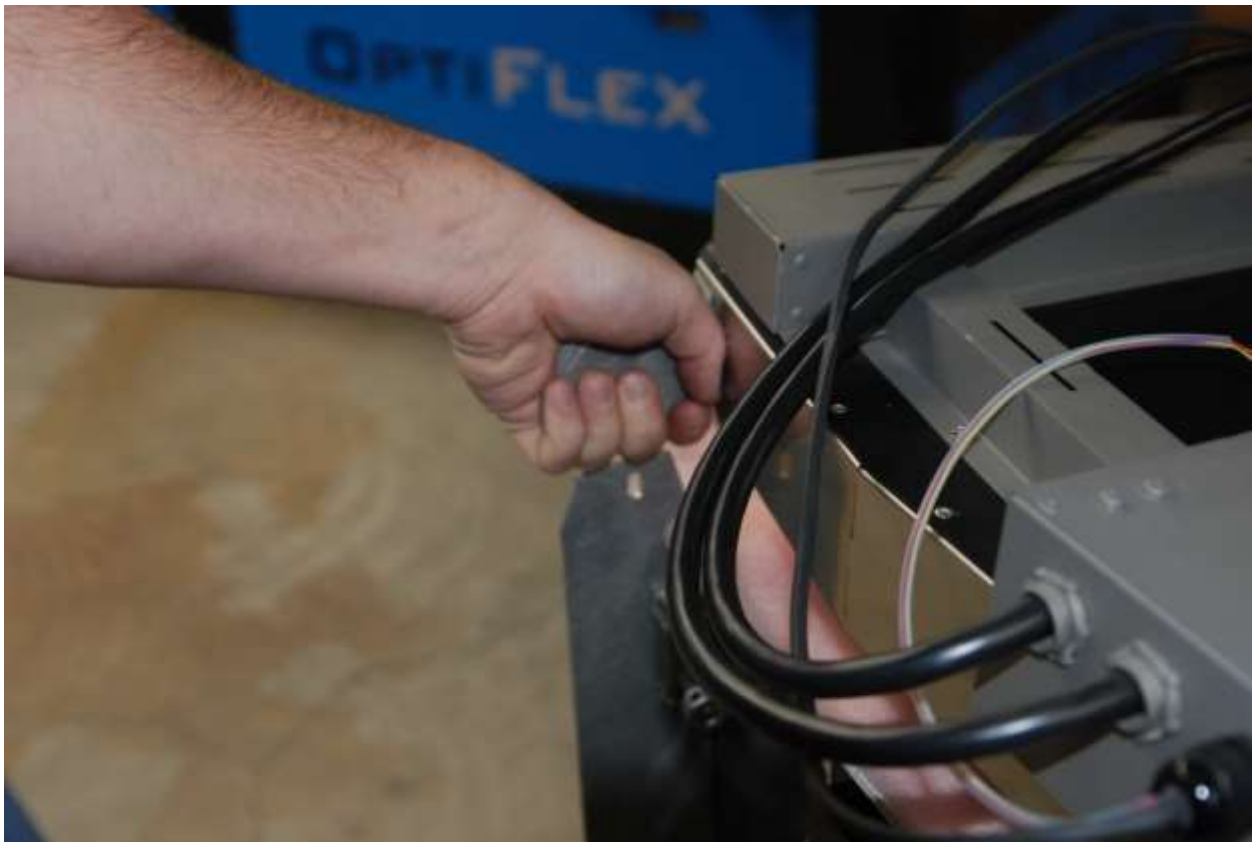

Figure 21 - Lifting the Lid - Backside

To lift the lid off of the chamber, first place the electrical connections on top of the lid and out of the way of the person lifting.

Above is ideal placement of the hands when lifting the back of the lid off the chamber. You will basically be grabbing by each lid hinge ear.

This is when the packaging material comes in handy, we recommend using the Styrofoam from the packaging material to place the lid on once it is removed.

Figure 22 - Lifting the Lid - Frontside

The person lifting at the front of the lid uses the grey lid handle.

Figure 23 - Removal of Lid

Figure 24 - Placing Removed Lid Down

We recommend setting the lid on the Styrofoam that was previously removed from the package.

When setting the lid down, do so gently.

The angle of the handle allows the lid to sit up off the Styrofoam, making minimal contact with the fiber blanket and heating elements.

Figure 25 - Remove Packing Material

Once the lid is removed, remove the foam that was placed between the lid and chamber.

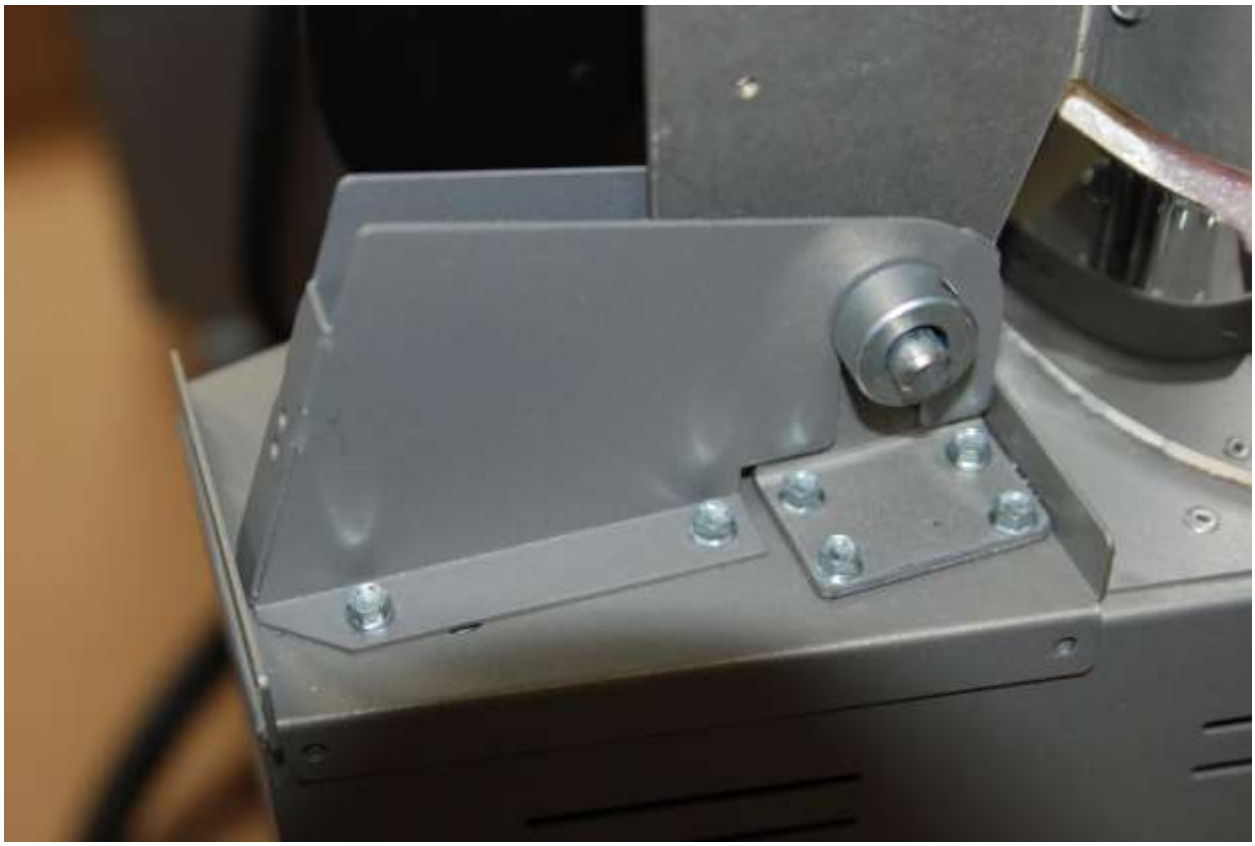

Figure 26 - Counter Yokes

Remove the two counter yokes located at the back of the base on either side of the chamber hinge.

These devices provide a stop for the chamber and prevents the user from opening the unit too far.

Figure 27 - Counter Yoke Removal

Using the included ¼" nut driver, remove the 4 hex head screws holding each counter yoke in place.

There are two counter yokes, one on each back side. Both must be removed.

Figure 28 - Unhook Chamber Catch Spring

Unhook the chamber catch spring located at the bottom front of the firing chamber.

Simply lift it off of the pin.

Figure 29 - Time to Remove the Chamber - Backside Grasp

Removing the chamber is a 2-person operation.

With all connections removed as previously stated, place hands on the rear hinge rod (place hands close to the ends of the rod as shown).

Figure 30 - Time to Remove the Chamber - Frontside Grasp

The other person will grab the front chamber rod.

Figure 31 - Lift Chamber from Base

Carefully lift chamber off of base.

Figure 32 - Setting Chamber Down

Again using the Styrofoam that was removed during unpacking, place chamber gently down while keeping an eye on the Power Interrupt Cam – See next image!

Figure 33 - Place Cam as Shown when Setting Down Chamber

Located on the rear of the chamber is the Power Interrupt Switch Cam.

This cam swings freely when you carry the chamber.

Be careful of the position when setting the chamber down. The Power Interrupt Cam should be positioned as shown to avoid damaging it.

Figure 34 - Remaining Base

Figure 35 - Remove the Kiln Base from Pallet

Remove the kiln base from the pallet and place on its side as shown in the next image.

Figure 36 - Position Kiln Base on its Side

Gently set the base down and rest it on its side for models Studio Pro 24 and Studio Pro 28.

Model Studio Pro 41 should be placed on the back portion of the base.

Positioning of the kiln base in this way will allow you to access the shipping brackets that will need to be removed.

Do not place any model down with the brick floor against the ground.

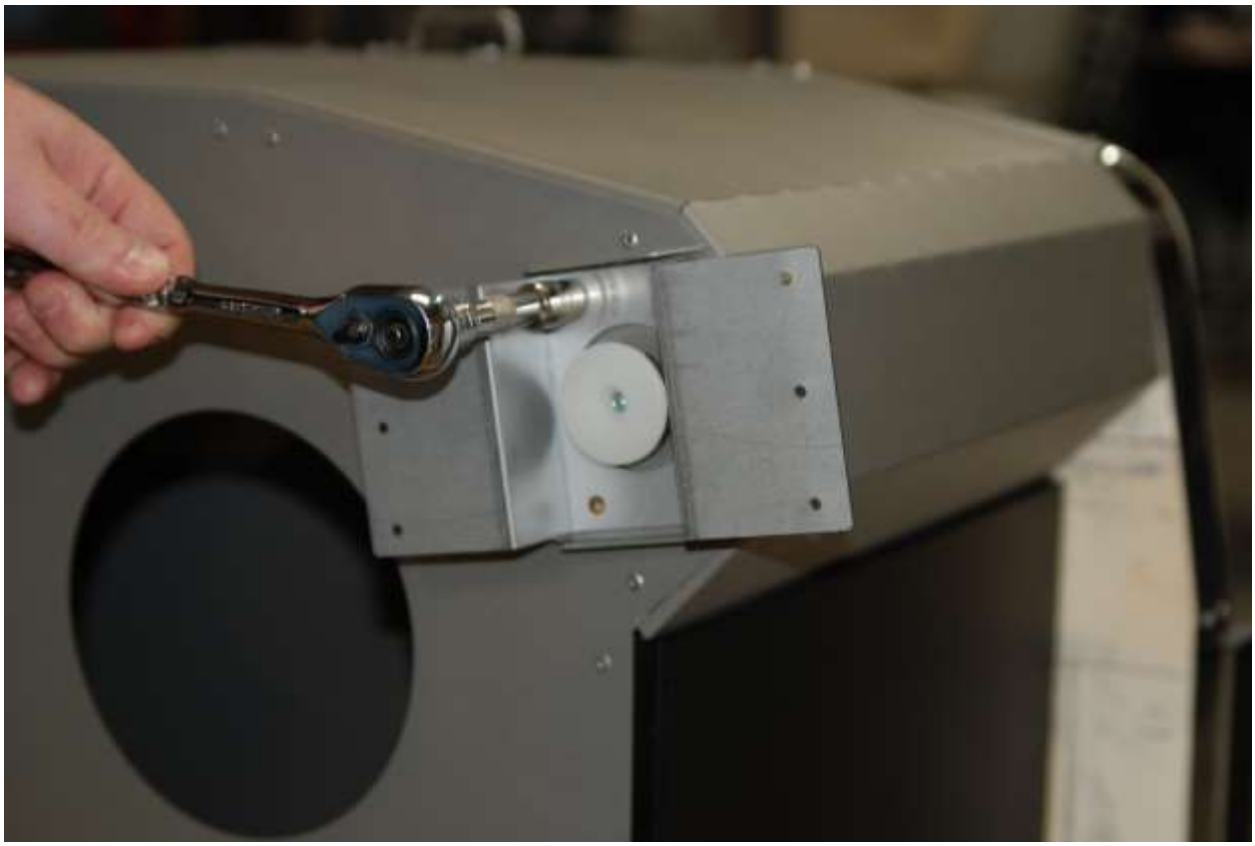

Figure 37 - Remove Shipping Brackets

Using a 7/16” socket or wrench, remove the bolts that hold the 4 shipping brackets to the base.

Once shipping brackets are removed they may be disposed of.

Figure 38 - Shipping Brackets Removed

Figure 39 - Leveling Feet Attached

After removing the 4 shipping brackets you will see the leveling feet already attached.

We suggest that you spin the leveling feet clockwise to seat them all the way in.

If rolling casters were purchased continue on with instructions

If optional rolling casters were not supplied you may skip ahead to Figure 43

Figure 40 -- Remove Leveling Feet

If the optional rolling casters were purchased now is a good time to install them.

First unscrew and remove all 4 leveling feet.

Figure 41 - Rolling Caster Installation

Using the hardware provided, mount the casters to the bottom of the base. This will require a 7/16” socket. When doing so, place the included lock washer onto each bolt and then into the caster mounting hole. Each Caster will be secured using 4 bolts and washers.

Helpful Hint #1: *Each caster is attached with 4 bolts and washers. It is best to install all bolt and washers loosely before tightening any of them. Once all 4 bolts and washers are loosely installed then tighten firmly.*

Helpful Hint #2: *The caster set includes 2 locking and 2 non-locking casters. We recommend installing the locking casters at the front of the kiln and the non-locking at the back. However you are free to mount them as you wish.*

Figure 42 - Rolling Caster Installation

Be sure to tighten all bolts firmly on all casters.

Figure 43 - Base Ready for Placement

Rotate the completed base back to right-side-up.

The base is now ready for placement at the kilns ultimate location.

Use care when moving the base to its ultimate location while being especially careful not to damage the firebrick floor.

Figure 44 - Placing the Chamber on the Base

Place chamber section onto base.

Note person in image on right is grasping the kiln using the upper spring rods.

Ensure the chamber brackets are correctly positioned into base mounts (see next figure).

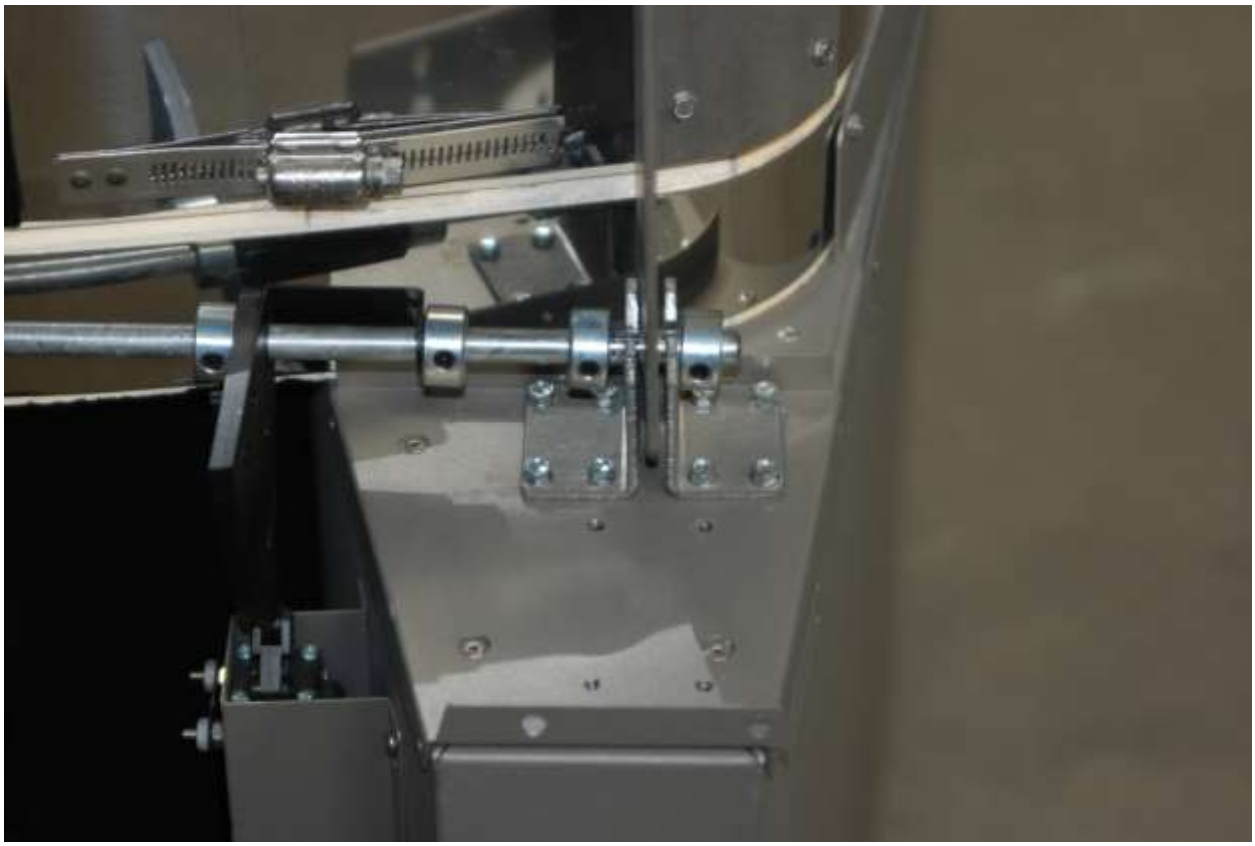

Figure 45 - Placing the Chamber - Looks Like This

Note the position of the chamber hinge placed between the hinge yokes.

Also note the shaft collars are on the outside of the hinge yokes. Both sides should appear this way.

Figure 46 - Placing the Lid on the Chamber

Pick up lid and place onto chamber.

Be cautious when placing the lid. The fiber lid is delicate. Refrain from “scooting” the lid across the firebrick. Line up the lid the best you can as you are placing it.

The lid brackets should be on the outside of the chamber brackets. Reference Figure 20.

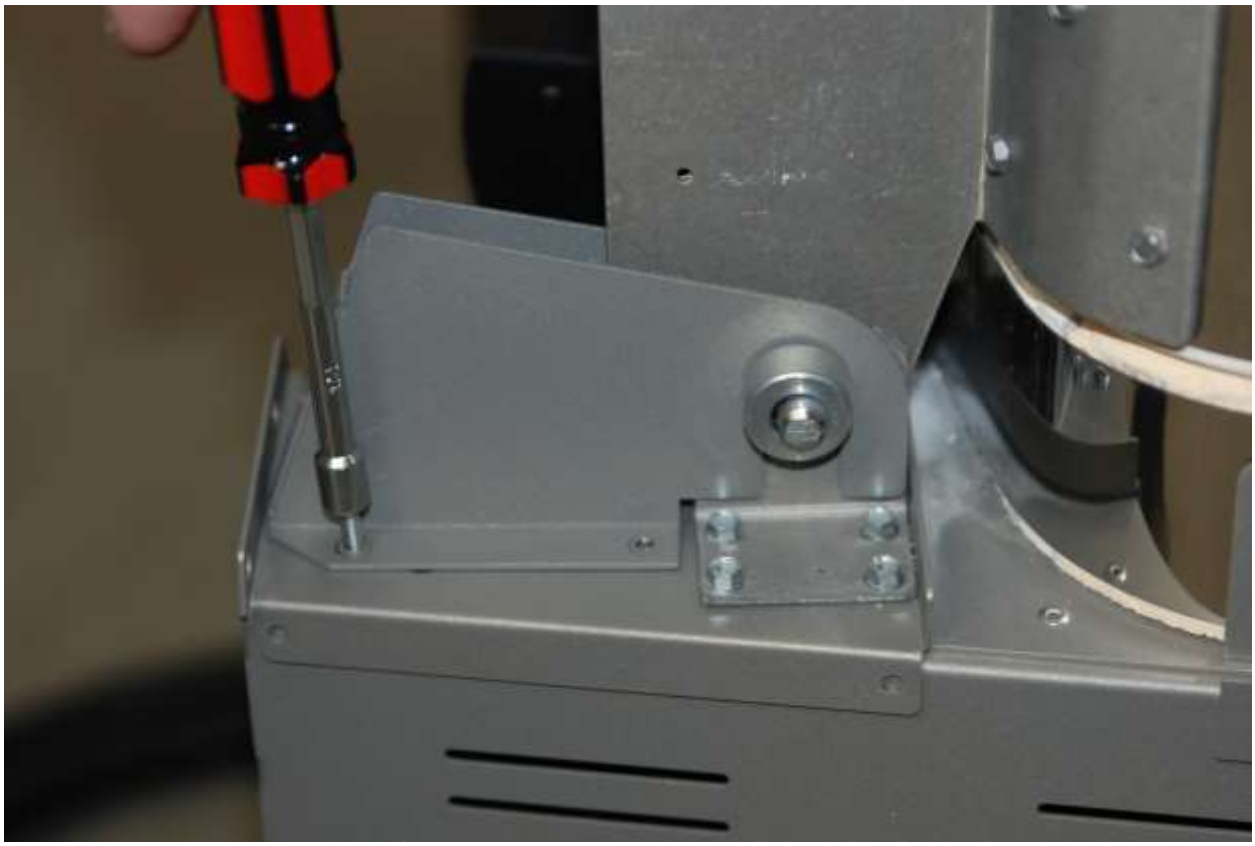

Figure 47 – Re-install Counter Yokes

Re-install the counter yolks. Each counter yoke uses 4 screws and all screws must be installed.

Note that the counter yokes are positioned between the shaft collars and the lower yokes.

Don’t attempt to install them placed between the lower yokes and hinge bracket.

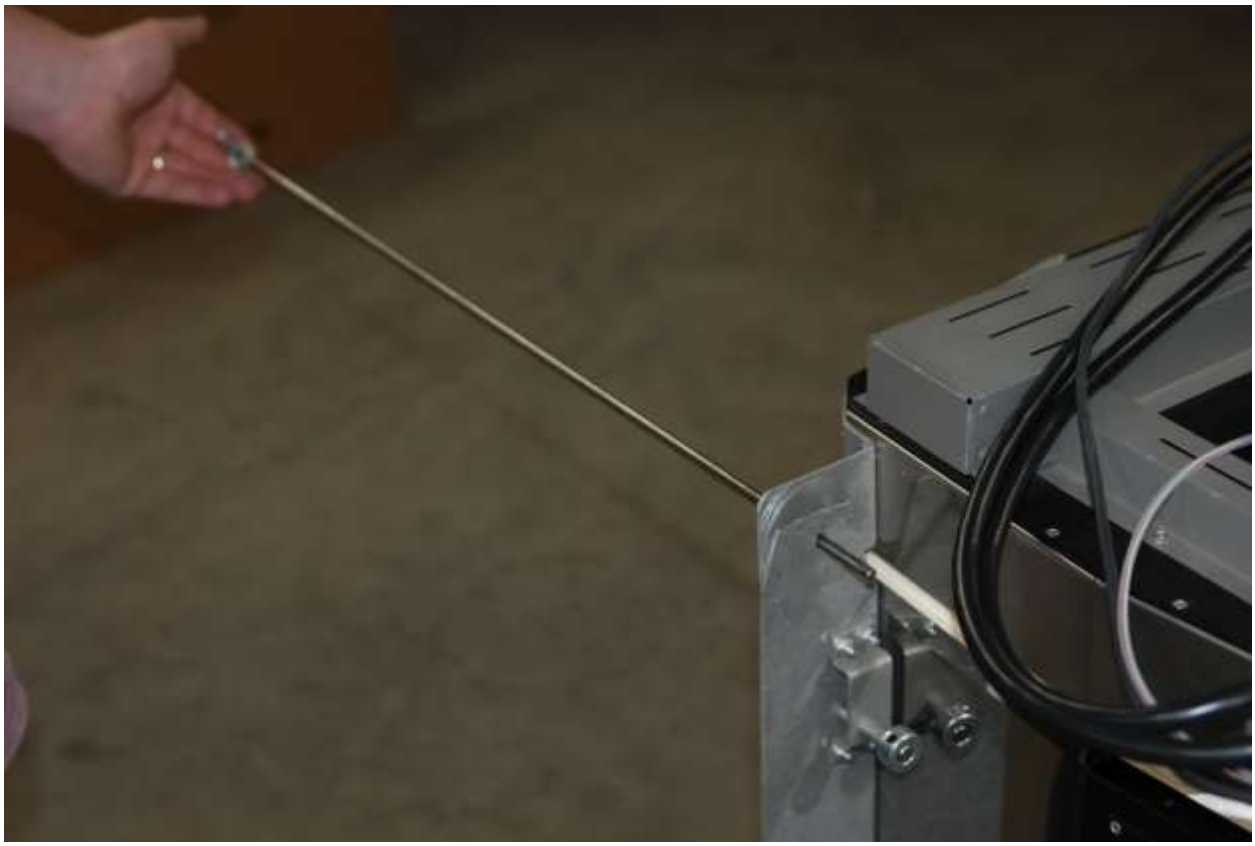

Figure 48 - Re-install the Lid Hinge Rod

Re-install lid hinge rod by lining up the holes and inserting the rod fully through.

When installing take care to avoid scooting the lid around on the firebrick too much.

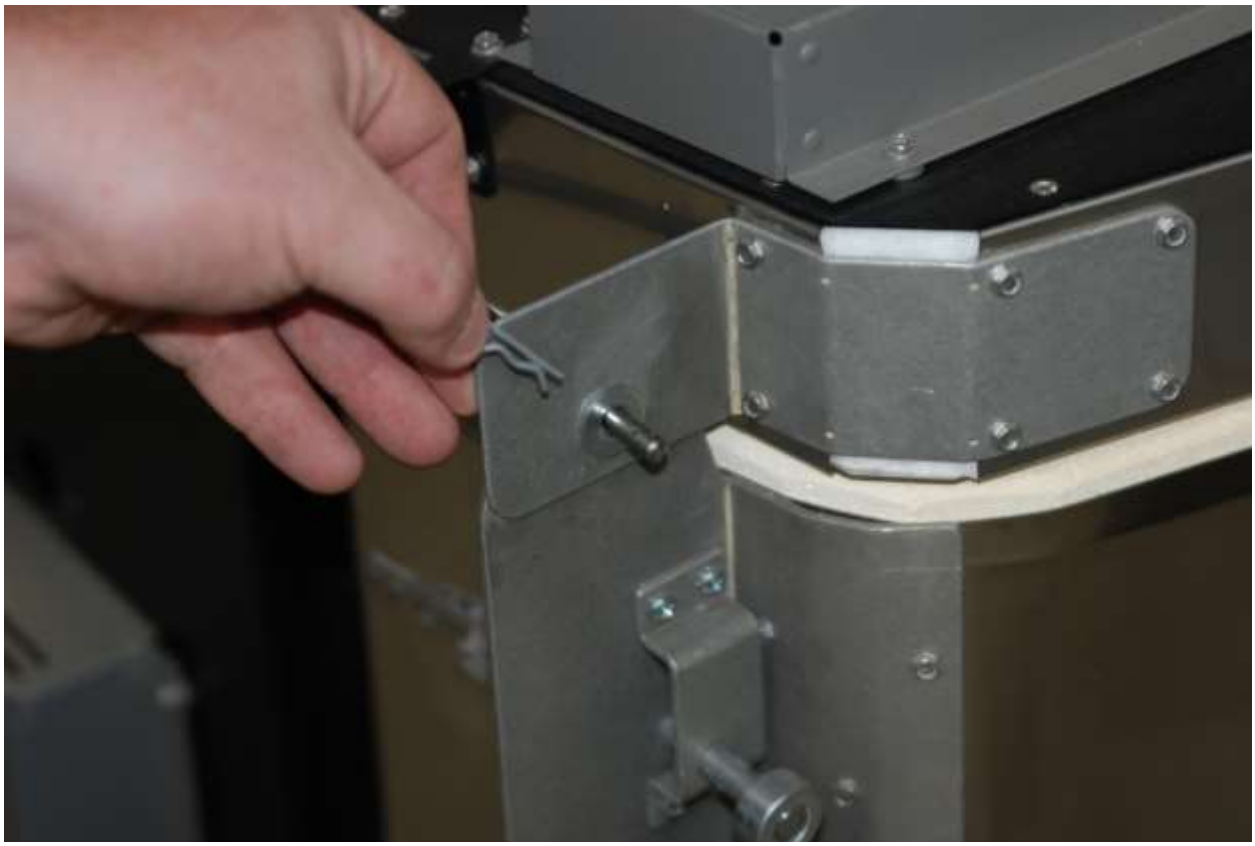

Figure 49 - Securing Lid Hinge Rod

After guiding the rod through the brackets, re-install hardware (washer and pin).

Figure 50 - Cables Run Over Top of Lid Hinge Rod

The two power cables, control cable, and thermocouple wires go over the lid hinge rod.

Do not try to feed them behind the rod.

Figure 51 - Re-install the Thermocouple

Re-install thermocouple as shown.

Insert the thermocouple as shown above. It may be necessary to wiggle it a bit to get it into the hole.

When completely in the white mounting block should fit flat against the chamber plate.

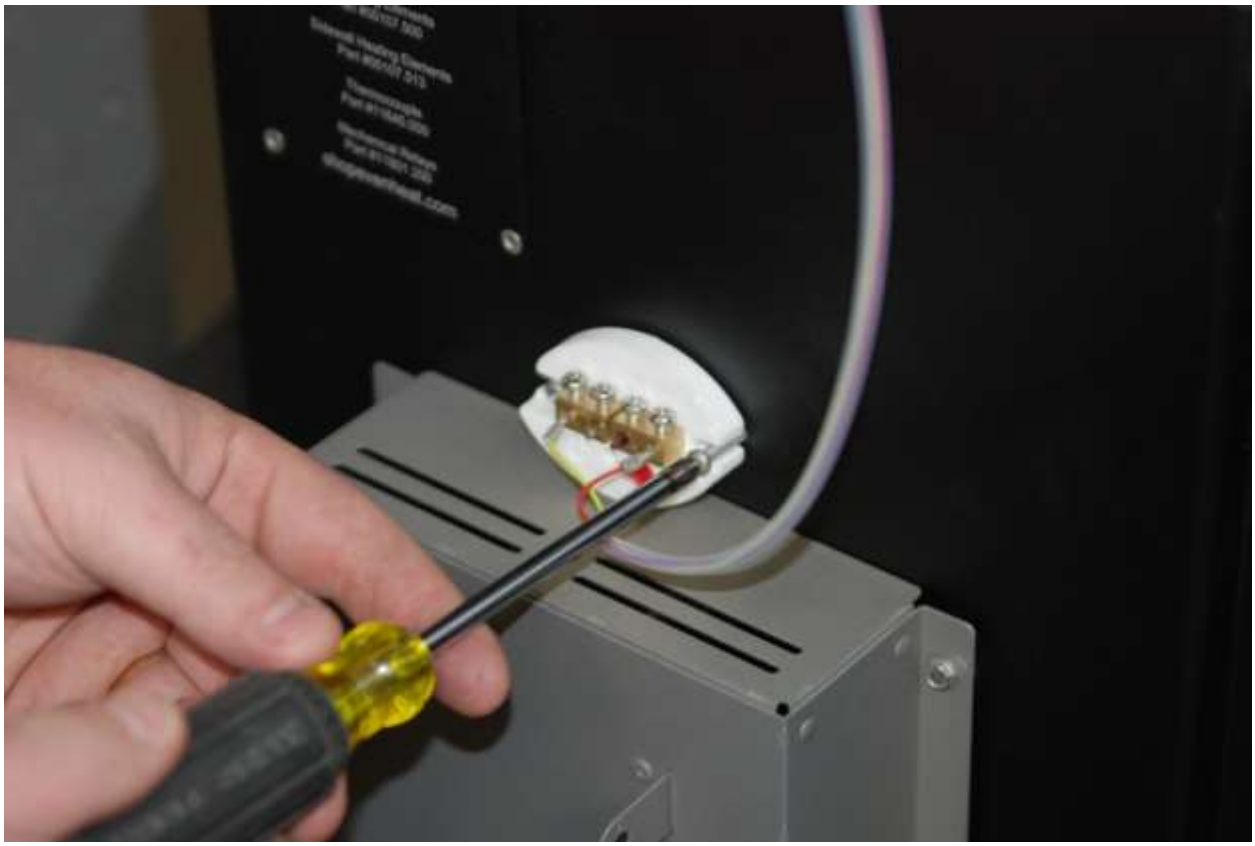

Figure 52 - Fasten the Thermocouple

Fasten thermocouple to the chamber.

Take note when installing that neither of the 2 screws used to fasten the thermocouple are touching any of the brass portions of the thermocouple connections.

Figure 53- Re-install Control Cable

Re-insert the control cable plug into the control cable jack.

The cable plug and jack are “keyed”. You must line up the pin connections prior to inserting. It’s not difficult, just take your time.

Once the plug is plugged into the jack, push the retaining collar forward and tighten by rotating clockwise.

Figure 54 - Re-install Element Power Cords

Plug in the element power cords.

The receptacle closest to the control cable (shown above) uses the plug from the electrical enclosure located on the kiln chamber (the short cord).

The receptacle in the middle uses the plug from the middle cord on the lid enclosure (Figure 55).

The receptacle on the left uses the plug from the left-side cord on the lid enclosure (Figure 56).

Figure 55 – Middle Receptacle Connection

The middle receptacle uses the middle power cord from the lid.

Figure 56 - Left Receptacle Connection

The left receptacle uses the left power cord from the lid.

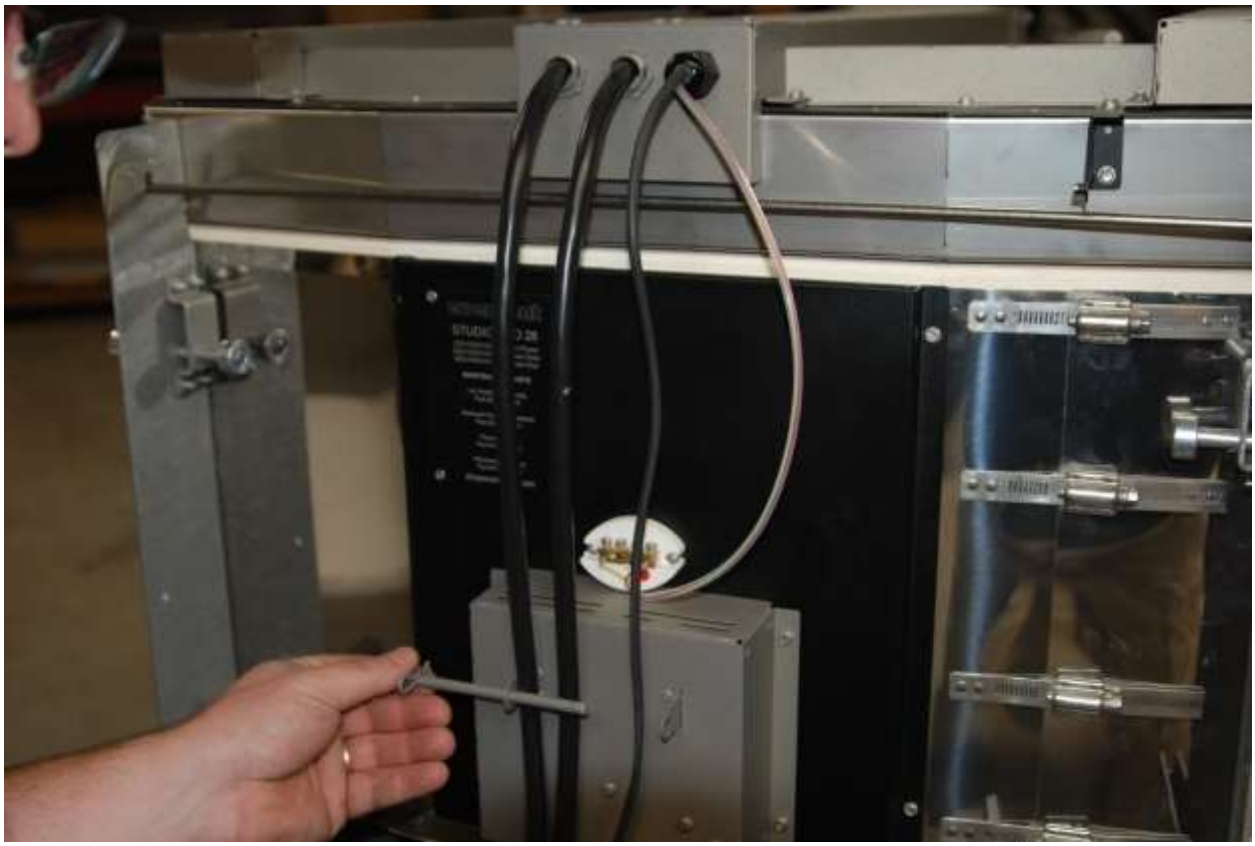

Figure 57 - Re-install Cable Management Rod

Re-install cable management rod.

Simply insert through both holes and secure with the hairpin clip.

Figure 58 - Cable Management Rod

Cable Management Rod is secured.

Figure 59 - Locate Power Interrupt Switch Pushrod

Locate the power interrupt switch pushrod.

Note the 2 nuts installed on the pushrod. You may be directed to these later in the installation guide.

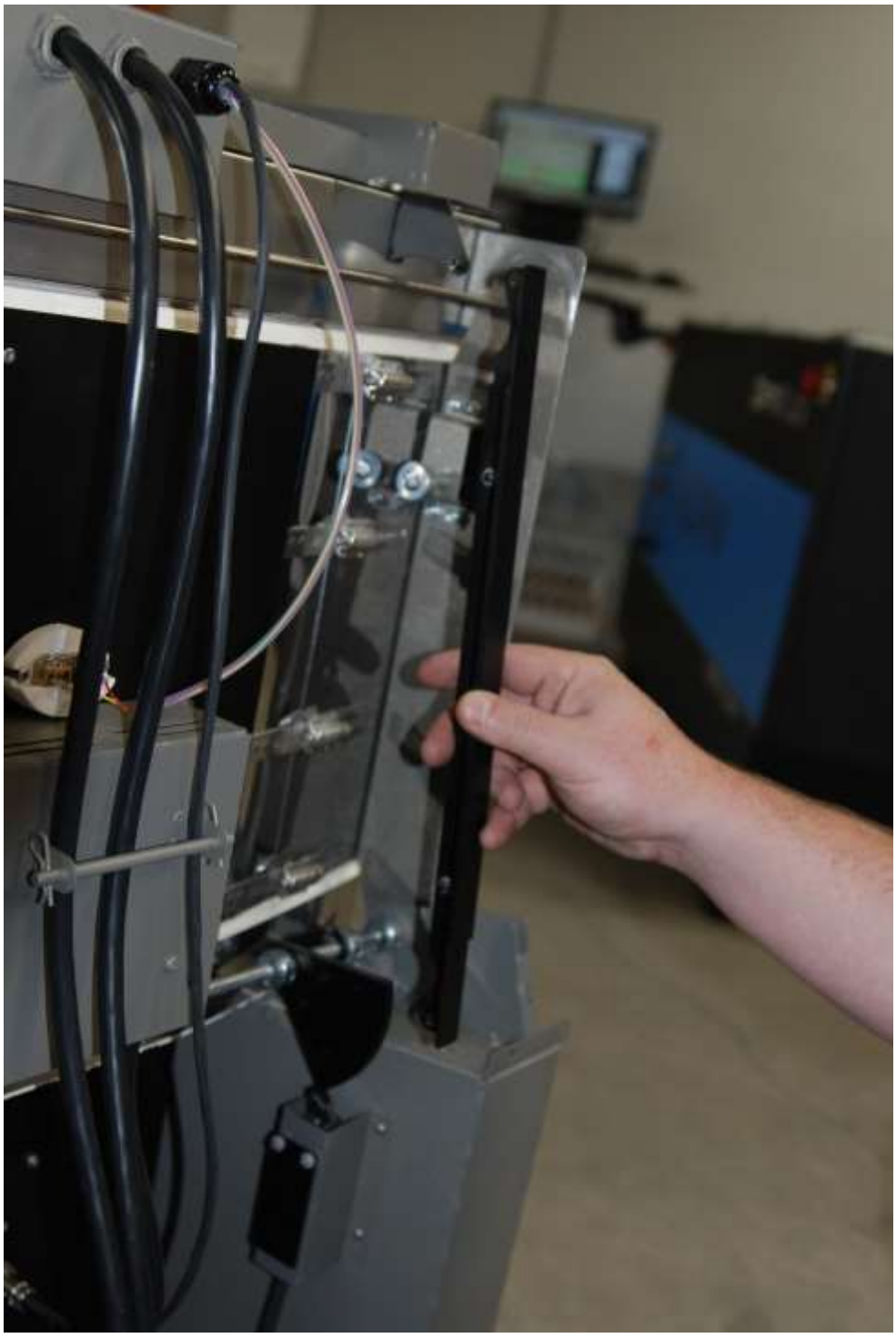

Figure 60 - Pushrod Example Position

Figure 60 illustrates the general position of the pushrod. One end installs on a pin located on the lid and the other end installs on a pin located on the Power Interrupt Switch Cam.

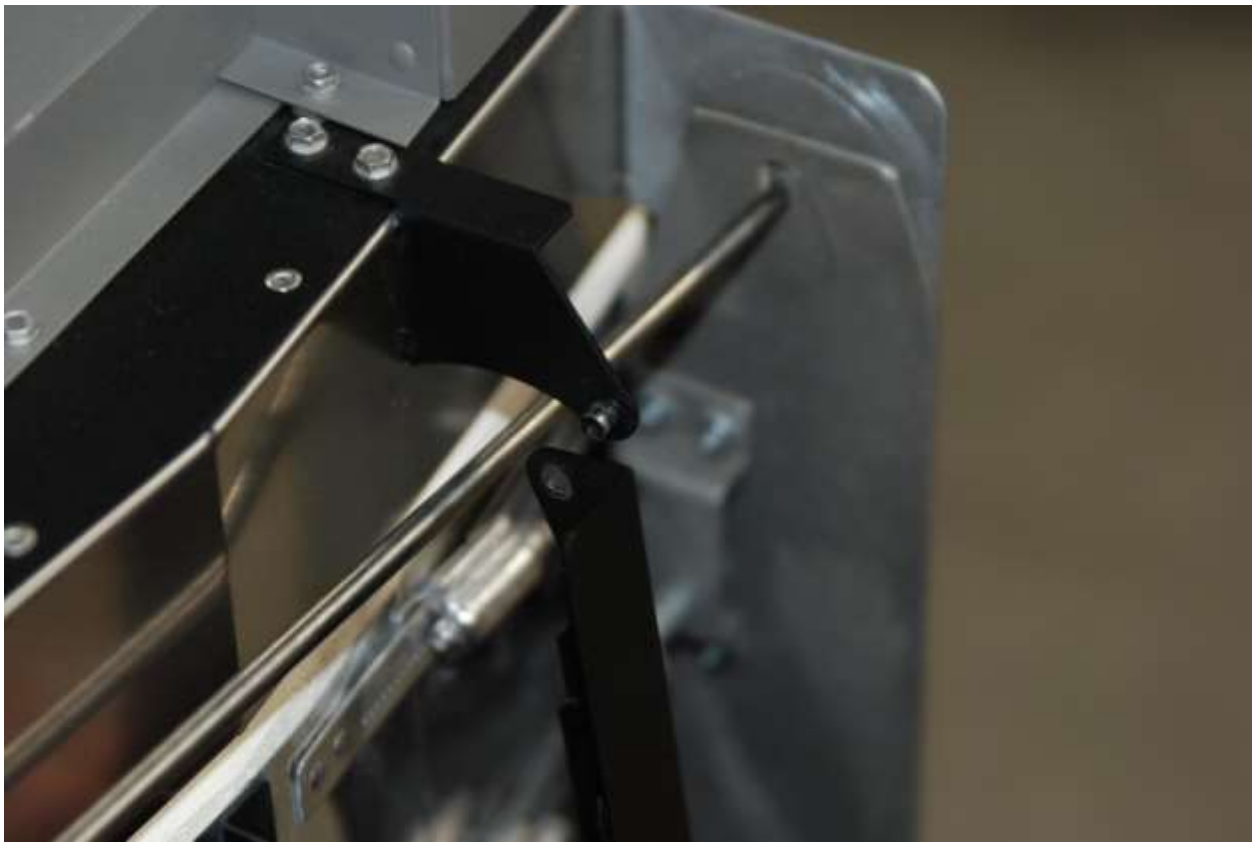

Figure 61 - Pushrod Lid Connection

Place one end of the pushrod up to the pushrod pin located on the lid.

The hole in the pushrod is placed on this pin.

The bent portion of the pushrod should be pointing to the middle of the kiln when installing.

Figure 62 - Pushrod Hardware

Pushrod connection hardware consists of 6-32 x ¼ bolts and #6 split washers. These will be threaded into the threaded pins.

Helpful hint: *These itty-bitty fasteners are prone to loss when installing. We have included extras within the parts bag in case you lose them. If you lose those all of them a hardware store should have replacements, (or call us).*

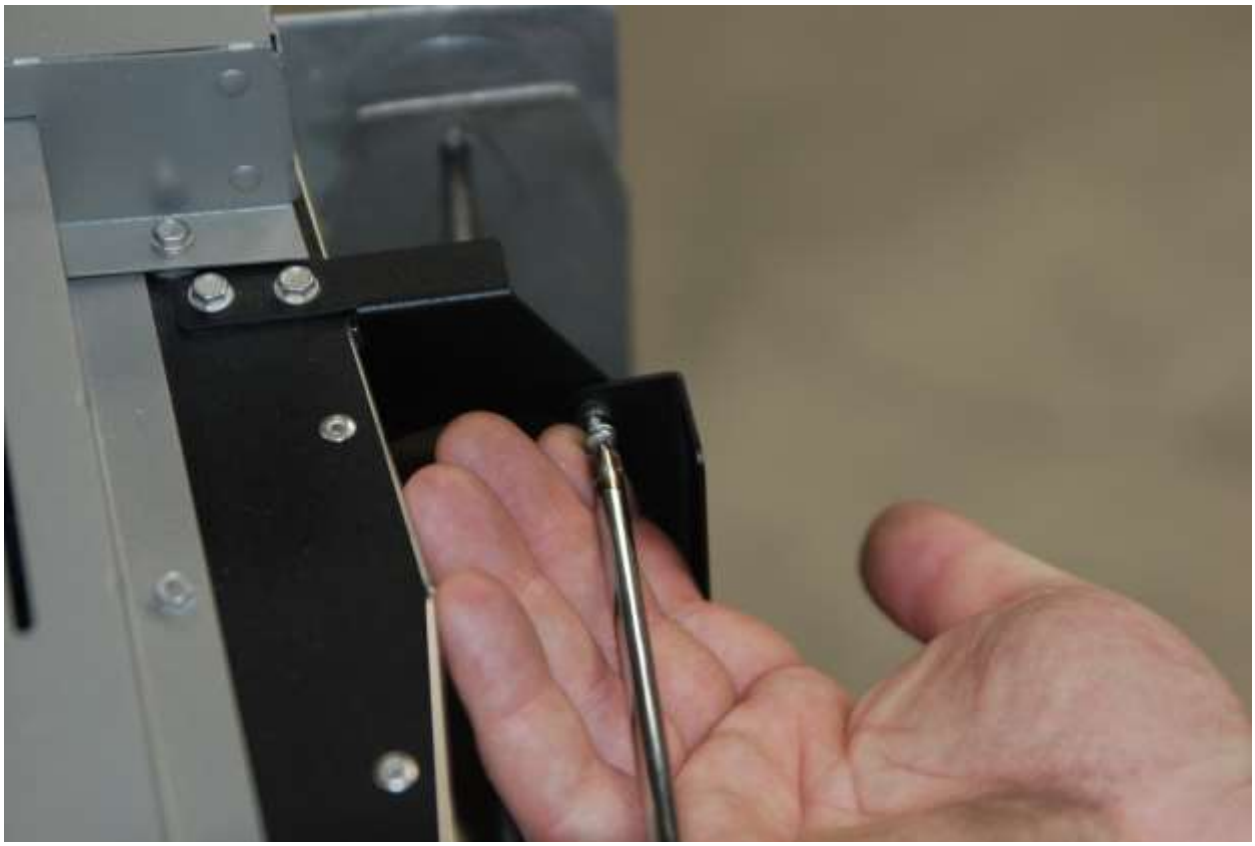

Figure 63 - Connecting Top of Pushrod

Place the pushrod hole onto the upper lid pin. It’s a typically tight fit but it will go.

Using a phillips screwdriver thread the bolt and washer into the upper pin and tighten.

Figure 64 - Pushrod Lower Connection

The lower pushrod connection pin can be found on the power interrupt cam.

Rotate the cam until you can push the pushrod hole onto the pin.

Secure the pushrod with the 6-32 bolt and washer.

The power interrupt switch pushrod is now fully assembled.

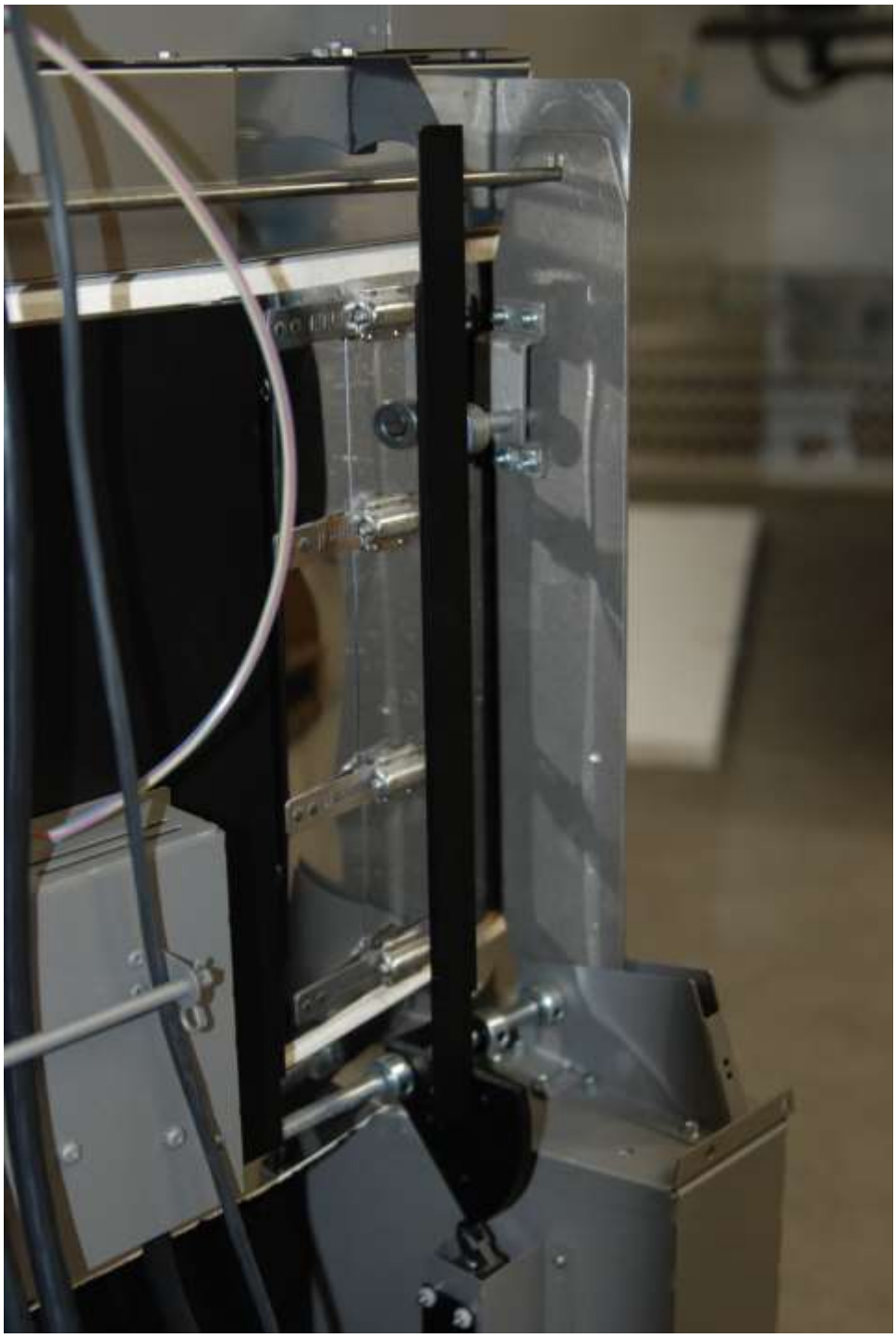

Figure 65 - Pushrod Fully Assembled

Figure 66 - Locate Lid Prop Bar

Locate the lid prop bar.

This bar mounts to the right side of the kiln lid and holds the lid in place when opened.

Helpful hint: *Your kiln will include a lid prop bar and a chamber safety bar. These bars are not the same in length, design or function. Please see the above image for proper selection of the Lid Prop Bar.*

Figure 67 - Lid Prop Bar Installation

Feed the lid prop bar through the catch on the right side of the chamber and up to the stud mounted on the side of the lid.

Position the lid prop bar in such a way that the lower stud and acorn nut are facing outward, not shown.

Figure 68 - Lid Prop Bar Installation

Place the lid prop bar hole over the stud as shown.

You may have to lift the lid slightly in order to accomplish this.

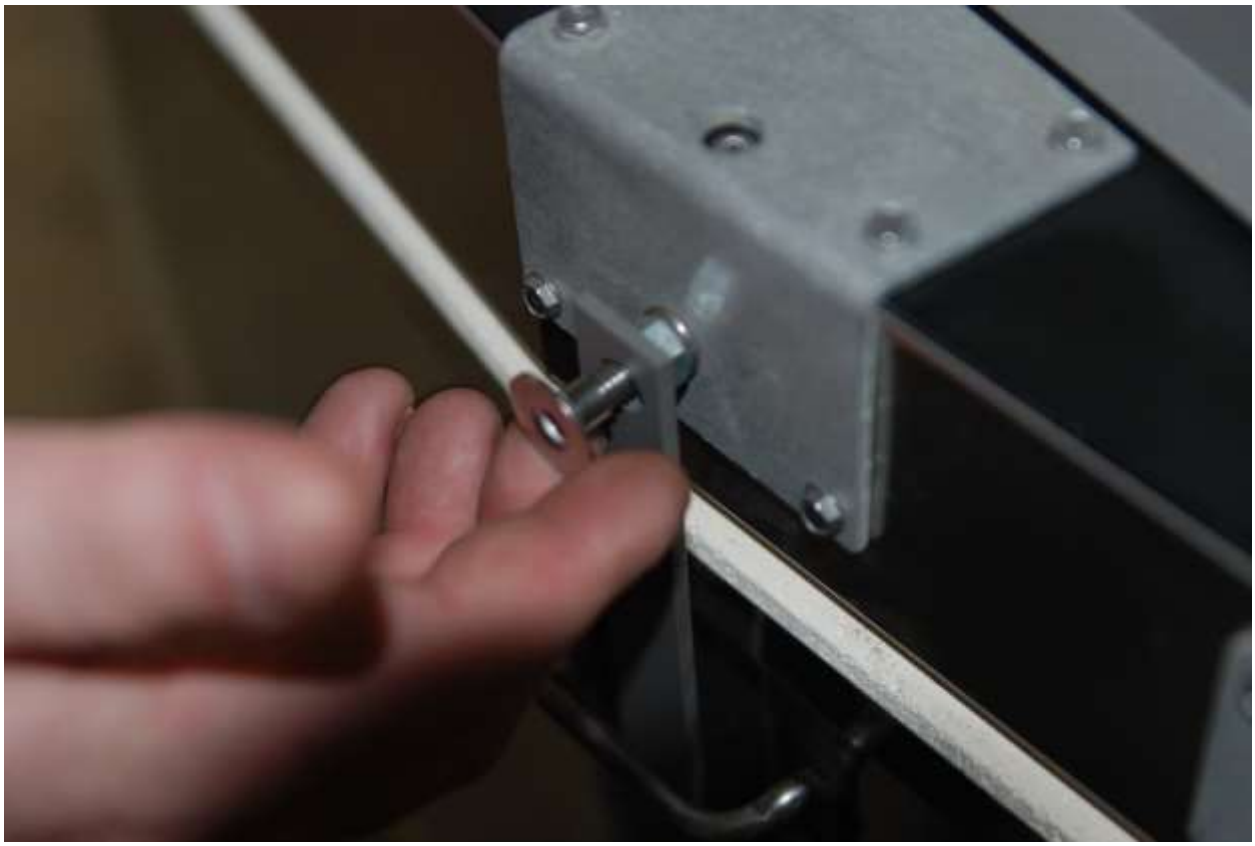

Figure 69 - Lid Prop Bar Installation

Thread the T-Nut onto the stud.

The shoulder portion of the T-Nut will go through the hole of the prop bar. Thread on until it stops.

Once you have verified that the shoulder of the T-Nut has gone through the hole in the lid prop bar and in threaded on all the way, use a pair of pliers, channel locks or other suitable tool to tighten the T-Nut.

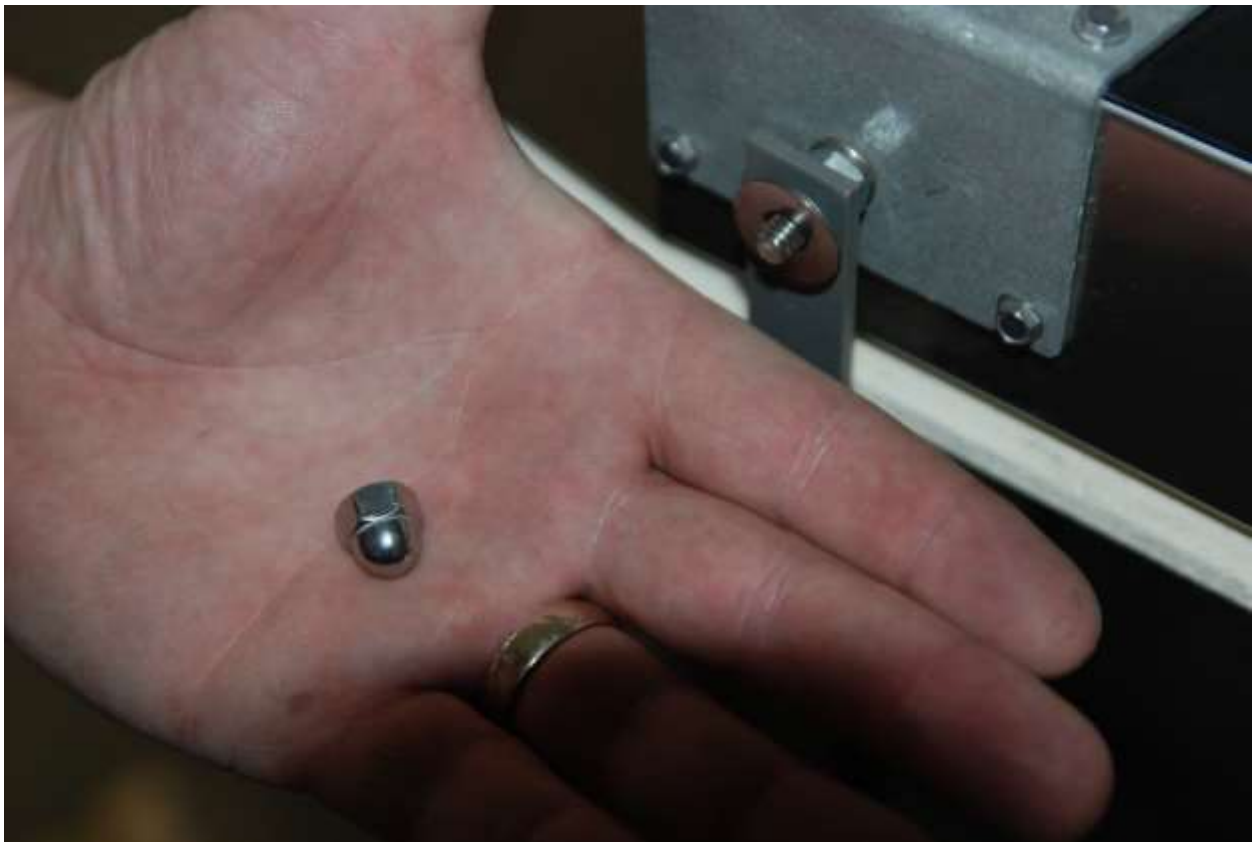

Figure 70 - Lid Prop Bar Installation

Thread the Acorn Nut onto the stud.

Figure 71 - Lid Prop Bar Installation

Tighten the Acorn Nut with a 7/16” socket or wrench.

Figure 72 - Lid Prop Bar Installed

Secure the chamber catch spring located at the bottom front of the chamber. Basically roll the spring up onto the pin located on the chamber plate. Not shown. This chamber catch prevents the chamber from opening as the lid is opened.

Lift the lid until the lid prop bar falls into the wire-formed catch. Lid will open approximately vertical. The lid prop bar should fall into place easily without any manual manipulation. If it does not, double-check the T-Nut connection.

The lid will stay open by itself, with the assistance of the lid prop bar.

To close the lid, grasp the lid handle, push the lid back a little bit, unhook the lid prop bar and lower the lid.

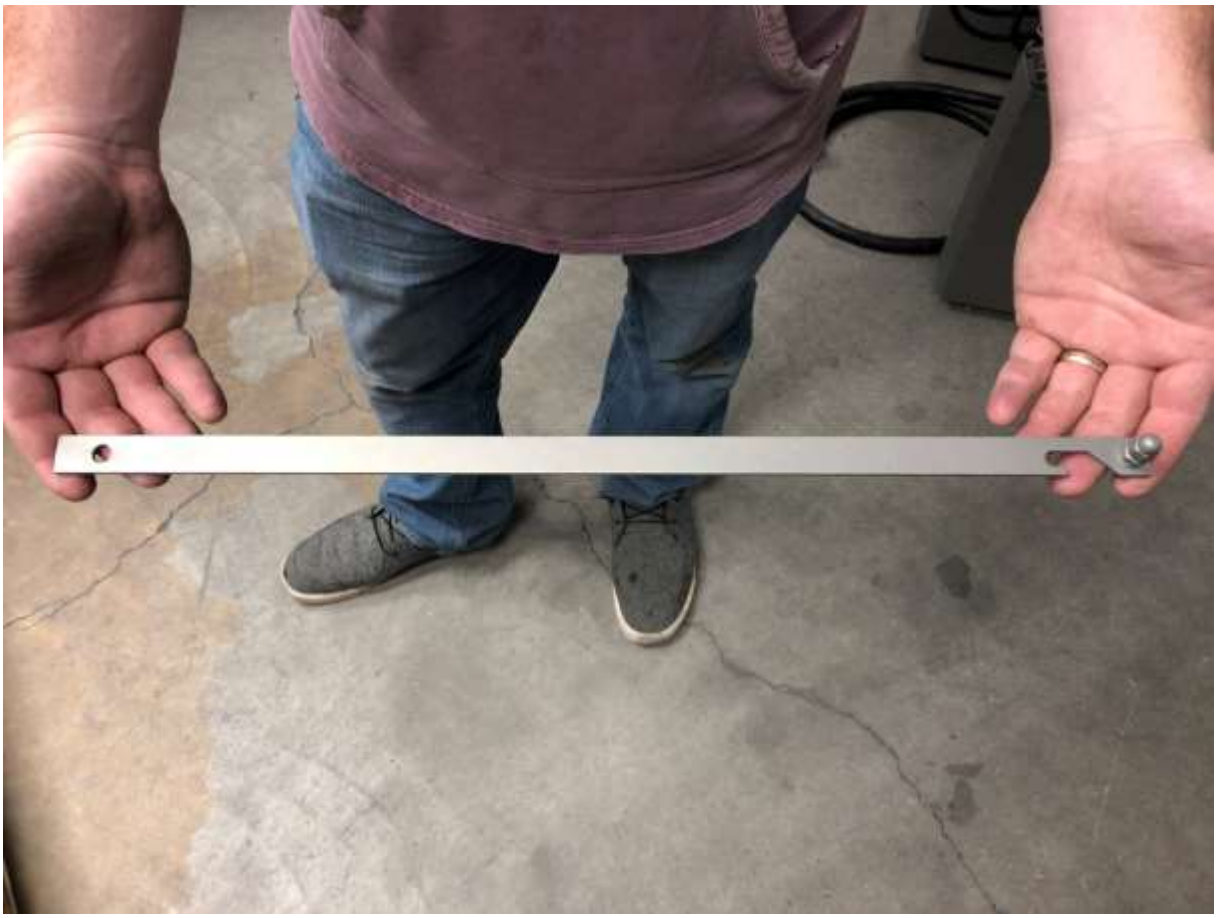

Figure 73 - Chamber Safety Bar Installation

Locate the Chamber Safety Bar, shown.

Helpful hint: *As mentioned previously, your kiln will include a lid prop bar and a chamber safety bar. These bars are not the same in length, design or function. Please see the above image for proper selection of the Chamber Safety Bar.*

Figure 74 - Chamber Safety Bar Installation

Feed the chamber safety bar through the bracket mounted on the left side of the base.

Position the chamber safety bar in such a way that the lower stud and Acorn Nut are facing outward.

Figure 75 - Chamber Safety Bar Installation

Fit the hole in the chamber safety bar over the stud mounted on the chamber as shown.

You may have to lift the chamber slightly to accomplish this. Do not fully open. Open only enough to place the bar hole onto the stud then close.

Figure 76 - Chamber Safety Bar Installation

Thread the T-Nut onto the stud. The shoulder portion of the T-Nut will go through the hole of the chamber safety bar. Thread on until it stops.

Once you have verified that the shoulder of the T-Nut has gone through the hole in the chamber safety bar and in threaded on all the way, use a pair of pliers, channel locks or other suitable tool to tighten the T-Nut.

Figure 77 - Chamber Safety Bar Installation

Thread on Acorn Nut.

Figure 78 - Chamber Safety Bar Installation

Tighten Acorn Nut with 7/16” socket or wrench.

DO NOT test the chamber safety bar for proper function at this point. Function testing should only be done AFTER the lift assist springs are attached.

Figure 79 - Lift Assist Spring Installation

Locate the lid assist springs.

The number of springs will vary depending on what model was purchased. The Studio Pro 24 will have two springs, the Studio Pro 28 and Studio Pro 41 will have four.

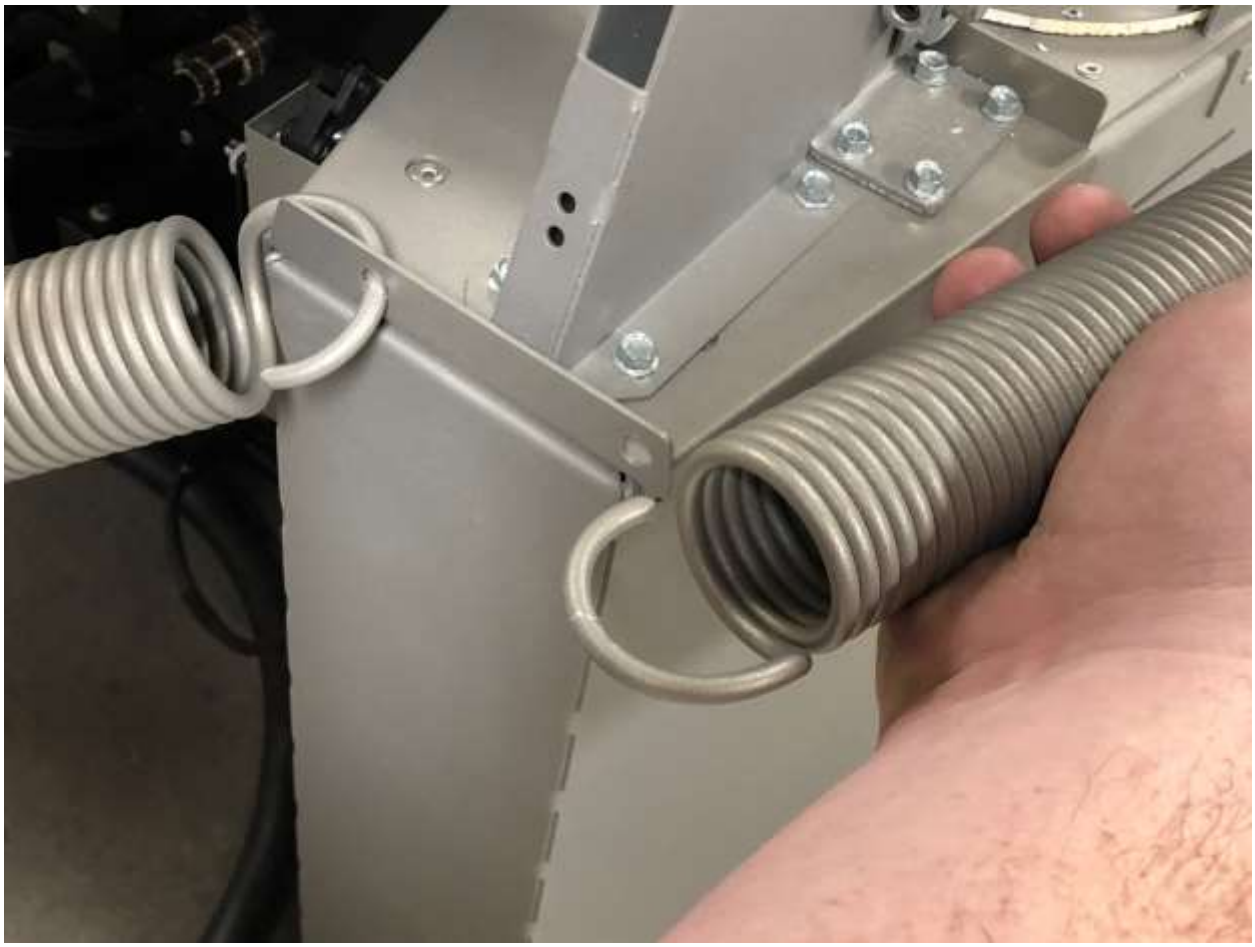

Figure 80 - Lift Assist Spring Installation for SP28 and SP41

The following images are used when installing the lift assist springs on models Studio Pro 28 and Studio Pro 41.

Lift assist spring installation instructions for the Studio Pro 24 begin with Figure 85.

After locating the lift assist springs, install them into the holes on the back of the base.

Figure 81 - Lift Assist Spring Installation SP 28 and SP41

All springs attached to base.

Figure 82 - Lift Assist Spring Installation SP28 and SP41

With help, have one person lift the chamber up using the bar on the front of the chamber. While doing this, have the other person attach the springs to the rods on the back of the chamber bracket, see next image for visual detail.

Note that the chamber will be quite heavy without the spring assist attached so use care.

Figure 83 - Lift Assist Spring Installation SP28 and SP41

Visual of lift assists spring installation.

Each of the four lift assist springs is installed this way.

Figure 84 - Lift Assist Spring Installation SP28 and SP41

Image of one side with lift assist springs attached. Both sides should look this way.

Figure 85 - Lift Assist Spring Installation SP24

This begins the lift assist spring installation process for the Studio Pro 24. The Studio Pro 24 models receive one spring per side.

Insert one end of the springs in the hole located near the top of the chamber hinge.

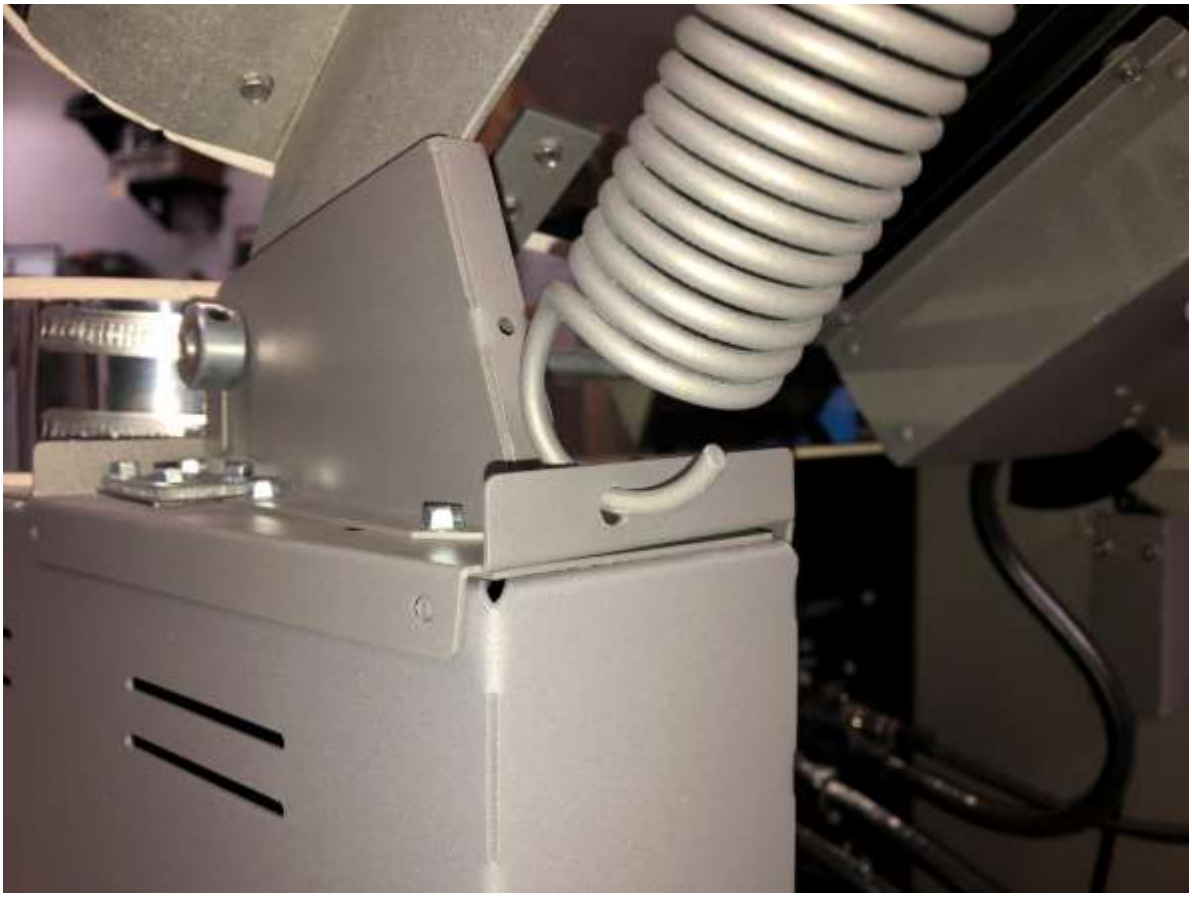

Figure 86 - Lift Assist Spring Installation SP24

With help, have one person lift the chamber up using the bar on the front of the chamber. While doing this, have the other person attach the spring ends to the holes located in the base as shown.

Note that the chamber will be quite heavy without the spring assist attached so use care.

We will admit that this portion of the installation is not particularly easy. One must slightly stretch and bend the spring while trying to hit the hole. It's a little frustrating but can be done.

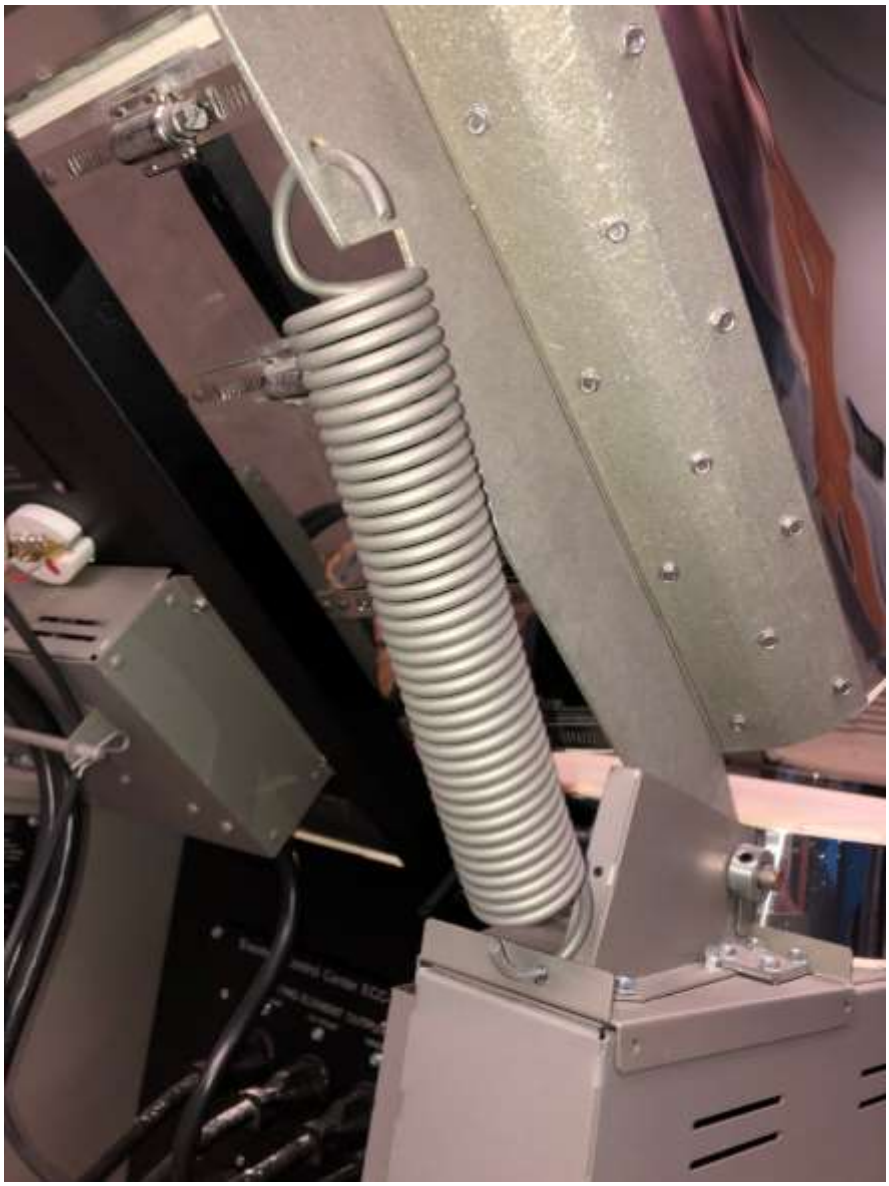

Figure 87 - Lift Assist Spring Installation SP24

Lift assist spring completely installed.

The image shows only one side. Both sides should look this way.

Figure 88 - Test the Chamber Safety Bar and Lift Assist Action

Slowly raise the chamber to the open position until it stops. The chamber safety bar notch should fall onto the wire formed catch as shown in the image above.

Carefully release the chamber handle. The chamber should stay open as it is held open with the lift assist springs. Be ready to catch it if it fails to stay back.

Slowly pull the chamber handle down in an attempt to shut the chamber. The chamber safety bar should now engage and stop the chamber from coming down. This is the chamber safety bar in action. Allow the chamber to rest in the open position again by allowing the chamber to go back under spring pressure.

With your left hand, raise the chamber safety bar slightly to clear the wire formed catch and begin to lower the chamber with your right hand. The chamber safety bar will now clear the wire formed catch and the chamber should close.

If any part of these tests fail, inspect the lift assist spring assembly and/or the chamber safety bar assembly and re-test.

Power Interrupt Switch Adjustments

While the kiln is complete and ready for firing, inspection and possible calibration of the Power Interrupt Switch mechanism must be completed first. We set the power interrupt switch pushrod and cam to function properly during production. However during transport, disassembly and re-assembly it's possible the pushrod and cam are no longer calibrated for your kiln.

Cam and Switch Roller Alignment:

Inspect the position of the power interrupt cam as it relates to the power interrupt switch. Viewing from the back, the cam edge should be lined up with the power interrupt switch roller.

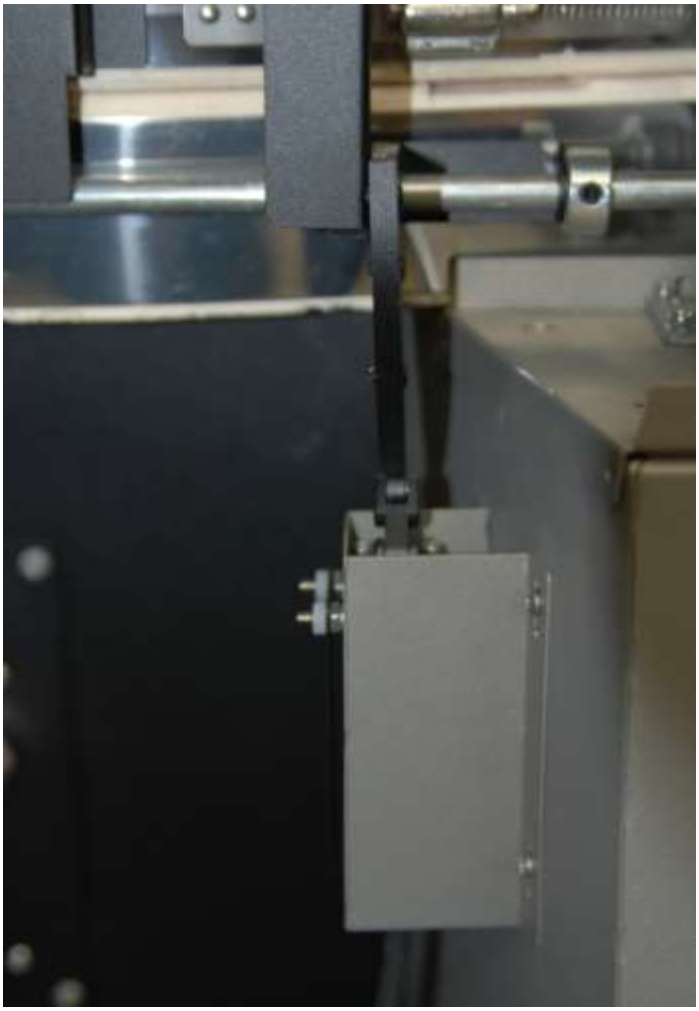

Figure 89 - Proper Cam / Roller Alignment

If the cam edge and power interrupt switch are not in alignment, using the 1/8” hex key loosen the 2 shaft collars on either side of the cam and reposition the cam edge until it is in alignment with the switch roller. Once in alignment, tighten the shaft collars. Double-check alignment and readjust as necessary.

With the cam edge in proper alignment we can now test the function of the power interrupt switch.

To test the function of the Power Interrupt Switch:

Lift the lid and set the lid vent bracket to the bottom/lowest vent notch on the chamber. When doing so you should not hear a “click” sound from the power interrupt switch.

Lift the lid and set the lid vent bracket to the upper/highest vent notch on the chamber. When doing so you should hear a click sound from the power interrupt switch.

Lower the lid all the way so it rests on the chamber. When doing so you should hear a click sound coming from the power interrupt switch.

We encourage you to repeat the above process a couple of times just to verify proper operation.

If the power interrupt functions test described above is successful you are free to operate the kiln. If not, continue reading.

If the power interrupt functions test described above fails then adjustment to the power interrupt switch operation is necessary.

There are two adjustments to be made: the height of the power interrupt switch itself and the length of the power interrupt pushrod. We will discuss the switch height first then the length of the pushrod.

Power Interrupt Switch Height Adjustment:

This adjustment determines how much the power interrupt switch mechanism moves downward when operated. The goal is to create maximum operating movement of the switch roller downward without “bottoming-out” or jamming the switch mechanism itself.

Locate the power interrupt switch adjustment gauge fastened to the power interrupt switch mount. It’s a small piece of black metal held on with two white, nylon nuts. Remove the nuts to access it.

Figure 90 - Power Interrupt Switch Gauge

Figure 91 -- Loosen Power Interrupt Switch Mount

Loosen (but don't remove) the four Phillips head screws that secure the power interrupt switch mount to the base. Once loose, the power interrupt switch mount is capable of moving up and down. Move it down until it stops.

Open the lid of the kiln and secure it with the lid prop bar. Doing so rotates the power interrupt switch cam into position as shown.

Figure 92 - Using the Gauge

Place the power interrupt adjustment gauge between the cam edge and power interrupt switch roller as you push the power interrupt switch up to make contact.

Basically you are sandwiching the adjustment gauge between the cam edge and switch roller.

Figure 93 - Tighten the Mount

Tighten the four screws on the power interrupt switch mount.

Remove the adjustment gauge.

Figure 94 - Check for Slight Free-Play

At this point we recommend that you depress the power interrupt switch roller arm down by hand. When doing so you should experience some slight movement downward. This slight movement downward signifies that the power interrupt switch has some downward travel remaining when the cam is rotated into it. This is a good thing and it means we are not jamming or “bottoming-out” the switch.

Adjustment is complete and you may now close the lid.

Power Interrupt Pushrod Adjustment:

This adjustment controls when the power interrupt switch turns on and off in relation to the angle of the lid and chamber. The goal is to allow for the heating elements to continue to operate when the lid is set to the lower/bottom vent position and not operate when set to the upper/higher vent position.

With both the chamber and lid in the closed positions, inspect the position of the cam leading edge as it relates to the power interrupt switch roller.

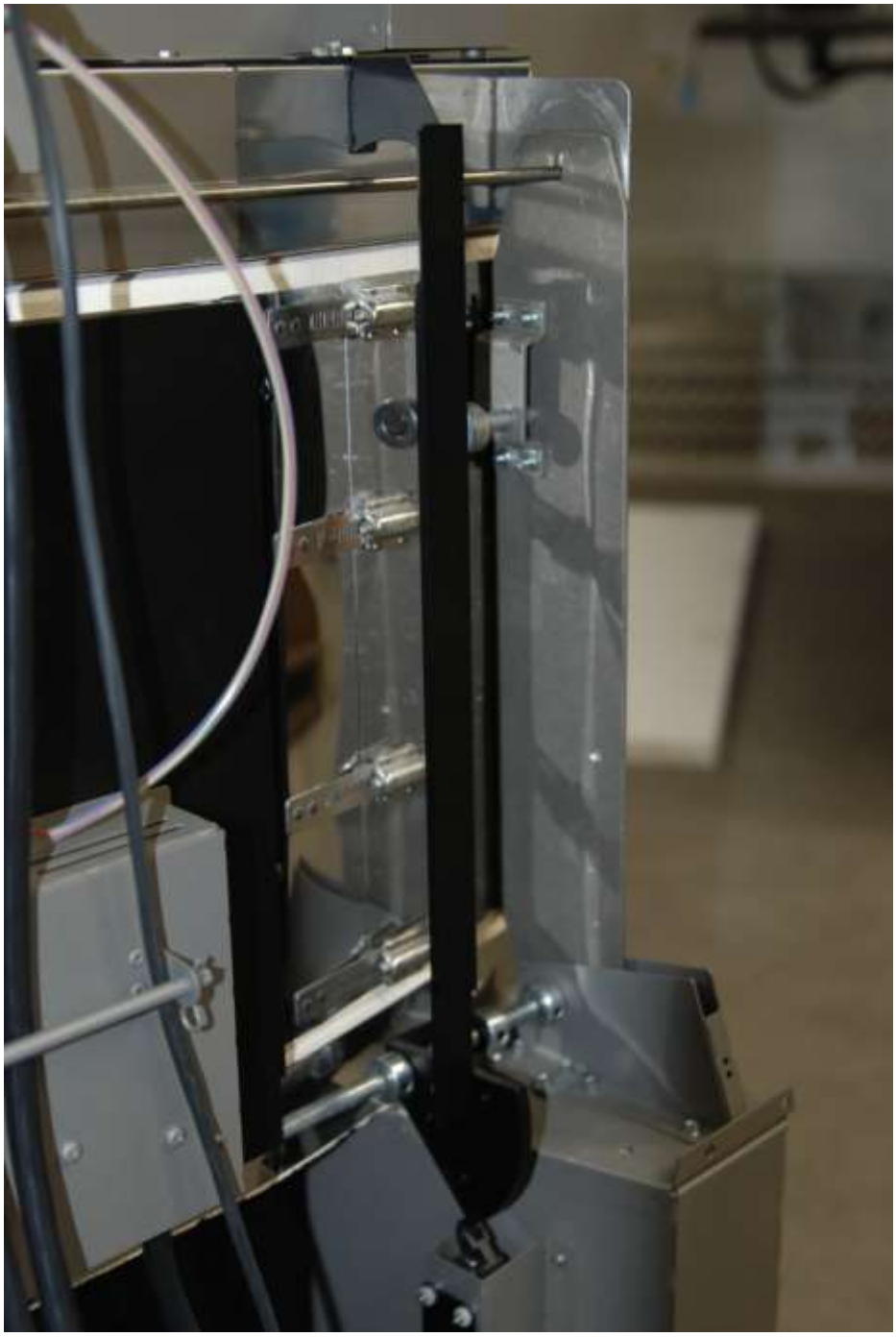

Figure 95 - Cam Edge Almost Making Contact

The leading edge of the cam should not be making contact with switch roller and you should be able to just fit the adjustment gauge between the leading edge of the cam and switch roller. That's how little space there should be.

If the distance between the leading edge of the cam is not correct, adjustment to the power interrupt pushrod length is necessary.

Figure 96 - Two-Finger Wrench

To adjust the pushrod, locate the two-fingered wrench included with the kiln. This tool is an 11/32” tool.

If you have access to traditional 11/32” tools you may find adjustment using these tools is easier.

Figure 97 - Two-Fingered Tool in Action

Using the 11/32” wrench, loosen the 2 nuts located on the power interrupt pushrod enough so that the two halves of the pushrod are free to move.

Move the two halves in such a way as to create the proper distance between the cam leading edge and the switch roller. Use the adjustment gauge as your guide.

Tighten the pushrod nuts.

To verify proper operation, close the lid and chamber completely. Slowly lift the lid until you can place the lid vent bracket into the lower/bottom vent notch on the chamber. When doing so you should not hear a click sound coming from the power interrupt switch. This tells us that the switch did not turn off the heating element circuits and that the heating elements will still produce heat if desired.

Slowly lift the lid to the upper/highest vent notch on the chamber. When doing so you should hear a click sound coming from the power interrupt switch. This tells us that the switch did turn off the heating element circuits and that the heating elements will not produce heat, even if desired.

We recommend that you repeat the verification process 3 or 4 times to double-check consistency.

Once verified, adjustment is complete. The power interrupt switch mechanism is in adjustment and you are free to operate the kiln.

We recommend that you place the power interrupt switch adjustment gauge back where it was found on the power interrupt switch mount. Adjustment to the switch may be necessary in the future and having the gauge handy and available is a good thing.