# **INSTALLATION MANUAL**



42" and 60" CONDOR





Illustrations are general and may not match your specific stair design.

# CALIFORNIA PROPOSITION 65 RAW WOOD PRODUCT EXPOSURE

WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood

# **CALIFORNIA PROPOSITION 65**



WARNING: This product can expose you to chemicals including formaldehyde, ethylbenzene, litanium dioxide, cumene, carbon black, silica and wood dust, which are known to the State of California to cause cancer, and toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

www.mylenstairs.com

Mylen

On behalf of everyone at Mylen Stairs, we would like to thank you for your purchase of one of our products. This product is designed and manufactured in the USA. This stair comes with an Installation Manual. It is important that you read and fully understand this manual prior to installation. Following the steps exactly as specified in the manual will ease installation and reduce the amount of time necessary to complete the process. Keep this manual even after the installation process has been completed. Understand how to use tools that may be required during the installation process. Observe all safety warnings called out in this manual. Make sure those who may install this product for you understand this manual as well as you do.

Mylen Stairs 106 GP Clement Drive Collegeville, PA 19426

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## NOTICE !!!

Unauthorized modifications may present extreme safety hazards and could also result in injury or product damage. Mylen Stairs strongly warns against, rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Mylen Stairs' Engineering Department. Any Mylen Stairs product that is altered, modified or changed in any manner not specifically authorized after original manufacture – including the addition of "aftermarket" accessories or component parts not specifically approved by Mylen Stairs – will result in the Mylen Stairs warranty being voided. Any and all liability for personal injury and/or property damage caused by any unauthorized modifications, add-on accessories or products not approved by Mylen Stairs will be considered the responsibility of the individual(s) or company designing and/or making such changes. Mylen Stairs will vigorously pursue full indemnification and costs from any party responsible for such unauthorized post-manufacture modifications and/or accessories should personal injury and/or property damage result.

This symbol means: ATTENTION! BECOME ALERT!	WARNING WARNING indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.		
Your safety and the safety of others is involved. <b>Signal word definitions:</b> The signal words below are used to identify levels of hazard seriousness. For your safety and the safety of others, read and follow the information given with these signal words and/or the symbol shown above.	<b>CAUTION</b> CAUTION indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices or property damage.		
<b>DANGER</b> DANGER indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.	<b>CAUTION</b> <b>CAUTION</b> used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, <b>MAY</b> result in property damage		

**Preparing For Installation** 

#### **Read the Installation Manual**

- If anyone involved in the installation process cannot read English, it is the owner's responsibility to explain the contents of this manual to them.
- If any portion of this manual is unclear, contact the Mylen Stairs Customer Service Department for clarification.
- It is the owner's responsibility to be familiar with the use of any tools that may be necessary to complete the installation of this product. Read the manual for these specific tools.
- Do not install or allow anyone to install this product if there are any questions about the installation process.
- Never attempt to install this product if any of the components are damaged or have any unauthorized modifications.
- All persons should be trained. The owner is responsible for training the users.
- Wear the appropriate personal protective equipment during installation.
- Wear hearing protection.
- Wear safety glasses.
- Wear a dust mask to avoid breathing dust.
- Never allow children, unskilled or improperly trained people to participate in the installation process.
- Keep the Installation Manual legible and intact.
- Do not attempt to install this product while under the influence of drugs or alcohol.
- The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people or property.

#### **Site Preparation**

- Check the area where the product is to be installed.
- Be sure the area is clear of pets and people, especially young children. Stop the installation process if any enter the area.
- Installation should be done in daylight or in good artificial light.
- Only use components approved by the manufacturer.

#### Installation Preparation

- Do not tamper with any component.
- Use extra care when unloading or moving any component. Some components may be heavy and require multiple people to move them safely.
- Keep all fasteners such as nuts and bolts well secured.
- Verify that all components are in good condition and are not damaged in any way.
- Do not start the assembly process until you read the Installation Manual.
- Do not use the stair until the assembly process is complete.

#### Suspending the Installation Procession

- If it is necessary to suspend the installation process, it is the owner's responsibility to mark off the area to limit access until the installation is complete.
- Do not allow anyone to use the stair until the assembly process is complete.

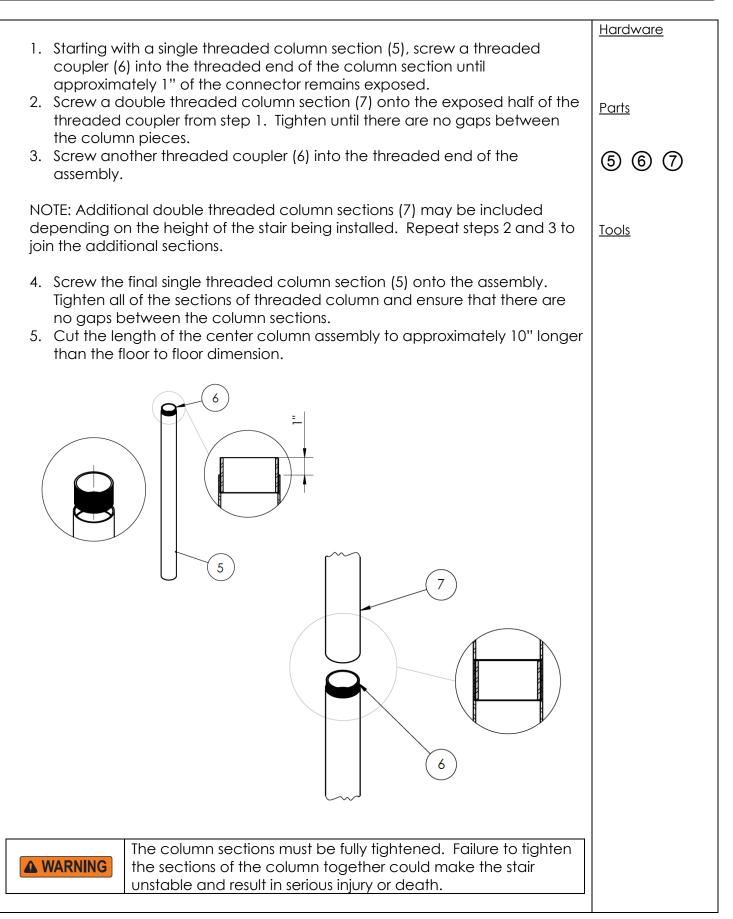
# Parts & Hardware

	\	· · · ·	(for 60" diameter stair only)	
(1) Base Plate	2 Bottom Baluster	3 Main Balusters	4 Center Balusters	5 Single Threaded Column
6 Treaded Coupler	⑦ Dual Threaded Column	8 Tread (8.5" hub height)	9 Platform	Olumn Ext with Cap
$\bigcirc$	2 e		0.	
1) Aluminum Handrail	D Top Baluster Bracket	(3) Aluminum HR End Cap	(1) Bottom Baluster Bracket	15 Platform Rail
6 Extra Platform Rail (Optional)	D Spacer	Bottom Tread (5.75" hub height)		

	Item	Description	Item		Description
A	6	5/16"-18 x 5/16" Socket Set Screw	0	Omm	#12x1-1/2" Wood Screw
B	$\bigcirc$	3/8" Flat Washer			
Ô	H-MMMM	3/8"x3" Lag Screw			
Ø	$\bigcirc$	1/4" Flat Washer			
Ē	$\bigcirc$	1/4" Lock Washer			
Ē		1/4"-20 Hex Nut			
©		1/4"-20 x 1-1/2" Carriage Bolt			
Ð		1/4"-20 x 3/4" Carriage Bolt			
	OMME	#10 x 3/4" SQ. Drive D&T			
®	MANNE	#12-1" Baluster Screw			
\$		1/4"-20x1" Tube Connector Screw			
T		Tube Connector			

## **Center Column Assembly**





Hardware 1. While all treads and platform are on the around, partially thread set screws (A) into each tread and platform sleeve. A B C 2. Partially thread set screws (A) into the baseplate (1). Insert the center column assembly into the baseplate until is fully seated. Attach the baseplate (1) to the center column assembly with set screws (A). 3. Determine the number of 1/8" spacers per rise using the following simple calculations: <u>Parts</u> a. Add number of treads and platforms = b. Measure the floor to floor height in inches = \_\_\_\_ 8 9 10 c. Divide 3b by 3a = \_\_\_\_ (This is your riser height) NOTE: Riser height is usually between 8  $\frac{1}{2}$ " and 9  $\frac{1}{2}$ ". (17) 4. The bottom tread has a hub that measures 5.75" in height. The remaining treads have a hub that measures 8.5" in height. 5. The total number of spacers needed can be determined below. a. Floor to floor measurement from 3b in inches = \_ <u>Tools</u> b. Count the # of treads (not including the bottom tread) = c. Multiply 5b by 8.5 = \_\_\_\_\_ d. Add 16.25 to 5c = \_\_\_\_\_ e. Subtract 5d from 5a = f. Divide 5e by .125 = g. Stairs with Wood Tread Covers = Subtract 6 from 5e = \_\_\_\_\_. This is the total number of spacers needed for your stair. h. Stairs without Wood Tread Covers = Place 6 of the spacers counted out in 5f onto the center column assembly. 6. The remaining spacers from 5g or 5f must be evenly distributed in between the treads of the stair. a. Divide remaining number of spacers (5g or 5h) by 3a = \_\_\_\_\_ b. The whole number is the number of spacers for each rise. EXAMPLE: If 5h is 48.5 and 3a = 12, the result is 48.5/12 = 4.0417. The whole number would be 4. c. Multiply 3a by 6b = \_\_\_\_\_ d. Subtract 6c from 5g/5h =\_\_\_\_ NOTE: This is the remaining number of spacers that must be added throughout the entire stair to meet the floor to floor height. Do not add all of the spacers calculated in 6d to only one rise. Add only one spacer per rise. 7. Place the number of spacers determined in 6b onto the center column assembly. 8. Place the bottom tread (18) onto the center column assembly. Measure the rise from the floor to the top surface of the tread. If your stair has wood tread covers, the measurement should be 0.75" shorter than the rise height

you calculated in 3b. If you do not have wood tread covers, the measurement should be equal to the rise height calculated in 3b.

- 9. Place the number of spacers determined in 6b onto the center column assembly.
- 10. Place a tread (8) over the center column assembly.
- 11. Measure the rise from the top surface of the bottom tread to the top surface of the next tread. The measurement should be equal to the rise height calculated in 3b.
- 12. Repeat steps 9-11 for the remaining treads and platform.

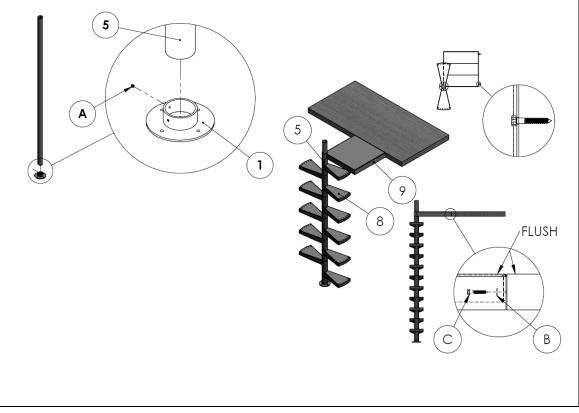
NOTE: Remember to add in the extra spacers calculated in 6e during the assembly process. This will make sure the top of the platform is located correctly at the end of the assembly process. This additional spacer will cause the measurement to be 1/8" larger than the riser height when included. If you have wood tread and platform covers, the top surface of the platform will be  $\frac{3}{4}$ " shorter than the loft surface.

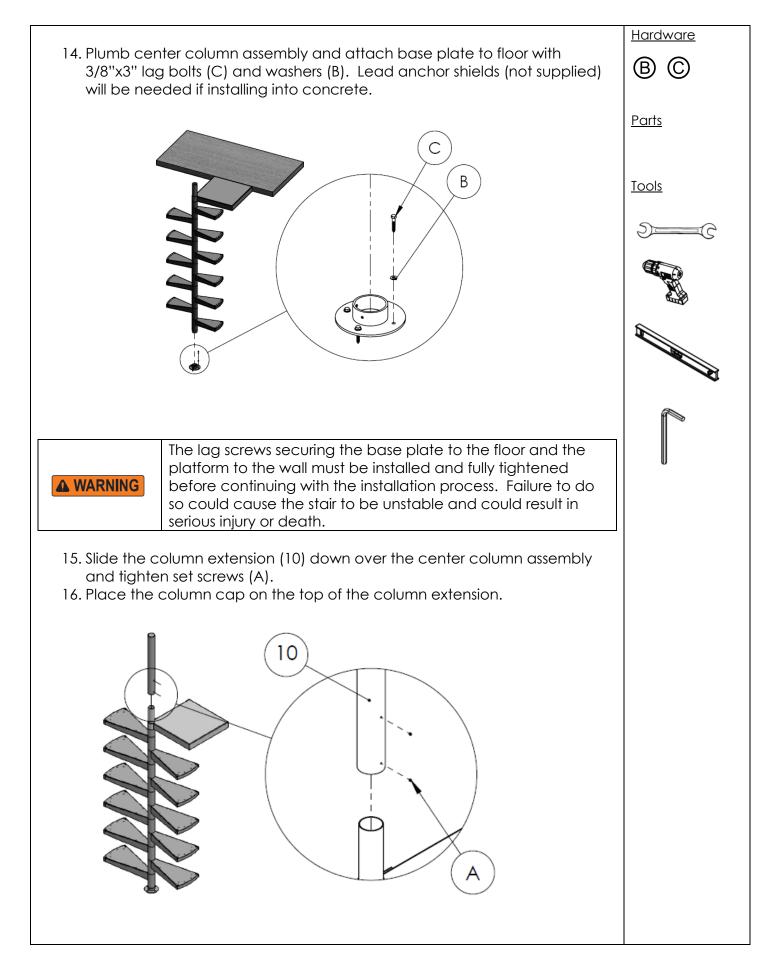
NOTE: Depending on how the platform is being mounted in your application, 3/8" holes may need to be drilled through the platform edge as needed to install the mounting lag screws. If the platform is being mounted in a corner, make sure that both edges of the platform are secured to the wall.



The platform is heavy. Steps 4 through 6 require a minimum of 3 people. One to keep the column steady and 2 people hoist and hold the platform in place. A fourth person may then drill and fasten the platform.

13. Use 3/8"x3" lag screws (C) and washers (B) to attach the platform to the mounting surface.

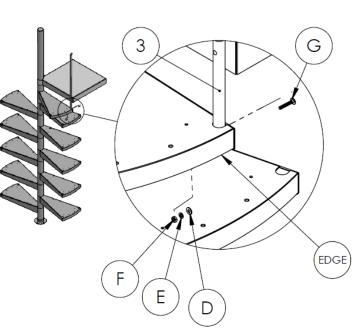




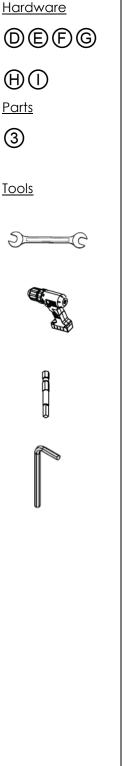
## **Tread and Baluster Installation**

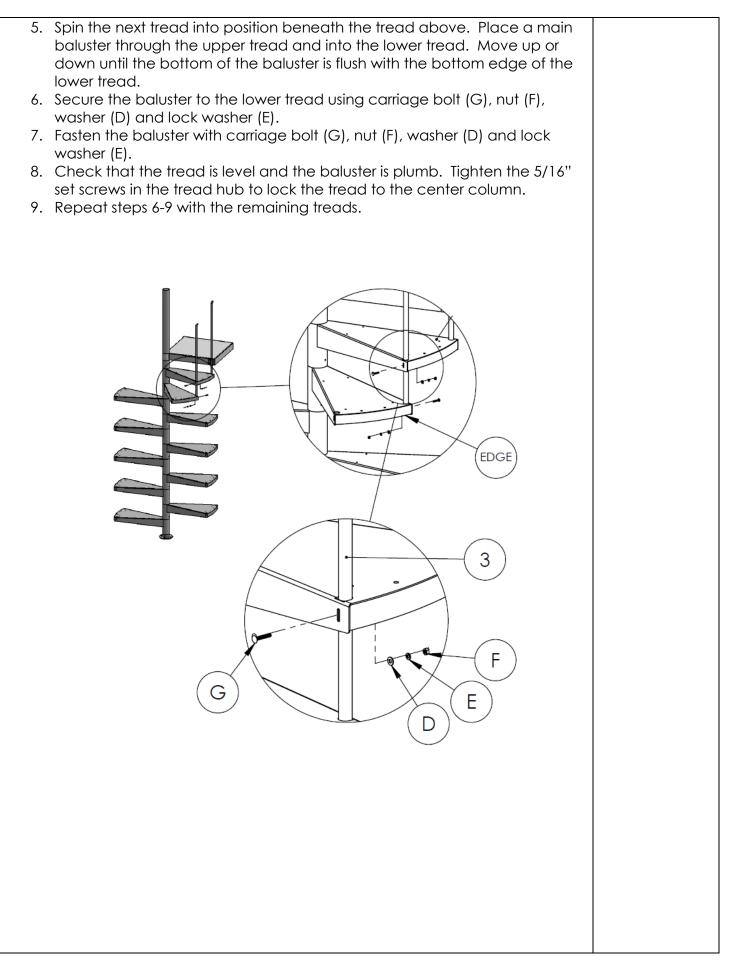
- Tools EDGE E 3. For stairs that are 60" in diameter, plumb the main baluster and attach to the face of the platform using the top baluster bracket, carriage bolts (H) 12 F Е G Е www.mylenstairs.com
- 1. Start installation with the top tread. Place a main baluster (3) in the hole closest to the platform. Move the baluster up or down until the bottom of the baluster is flush with the bottom edge of the tread.
- 2. Attach this baluster to the tread using the carriage bolt (G), nut (F), washer (D) and lock washer (E).

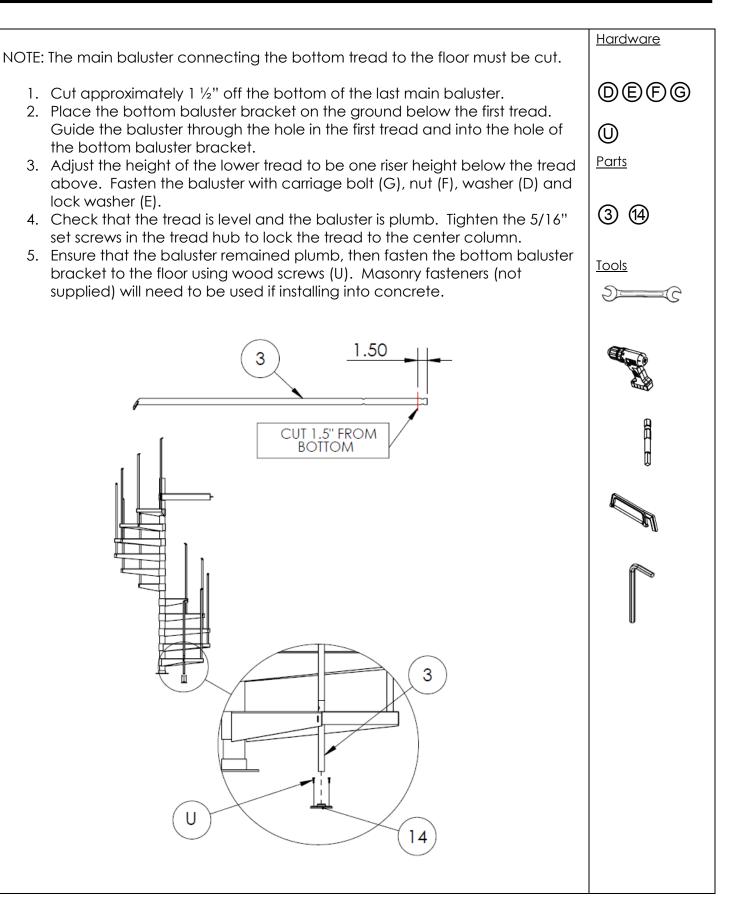
NOTE: Main Balusters have two holes drilled near the bottom.



and SQ Drive D&T screws (I), nut (F), washer (D), and lock washer (E). For stairs that are 42" in diameter, plumb the main baluster and attach to the face of the platform using carriage bolt (G), nut (F), washer (D) and lock washer (E). A  $\frac{1}{4}$ " diameter hole must be drilled in the platform at the location of the pre-drilled hole in the baluster. 4. Check that the tread is level and the baluster is plumb. Tighten the 5/16" set screws in the tread hub to lock the top tread to the center column. Н



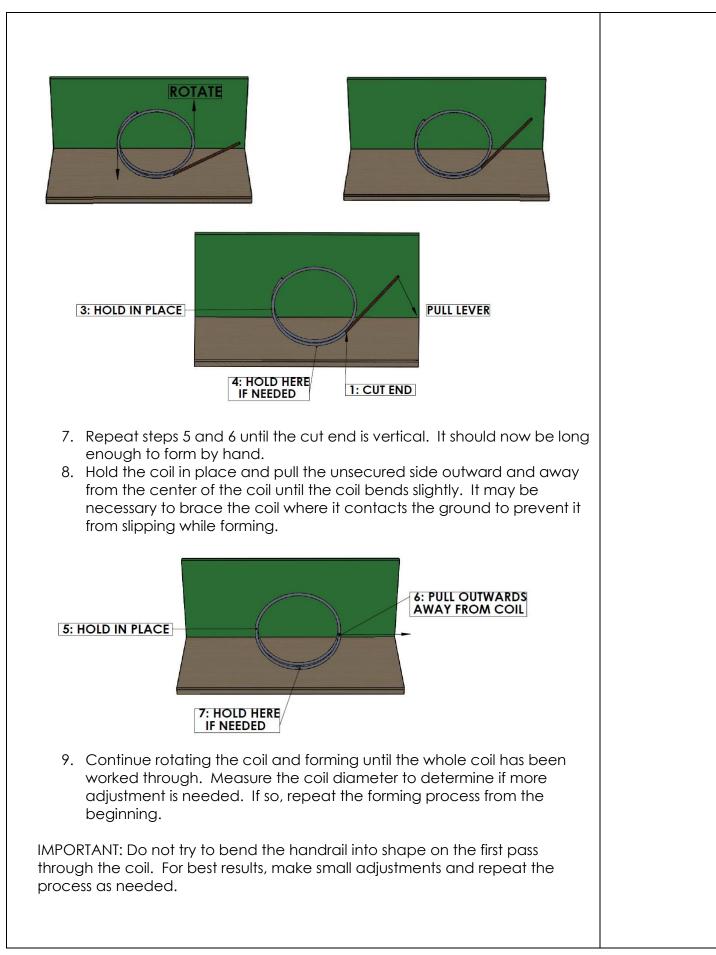


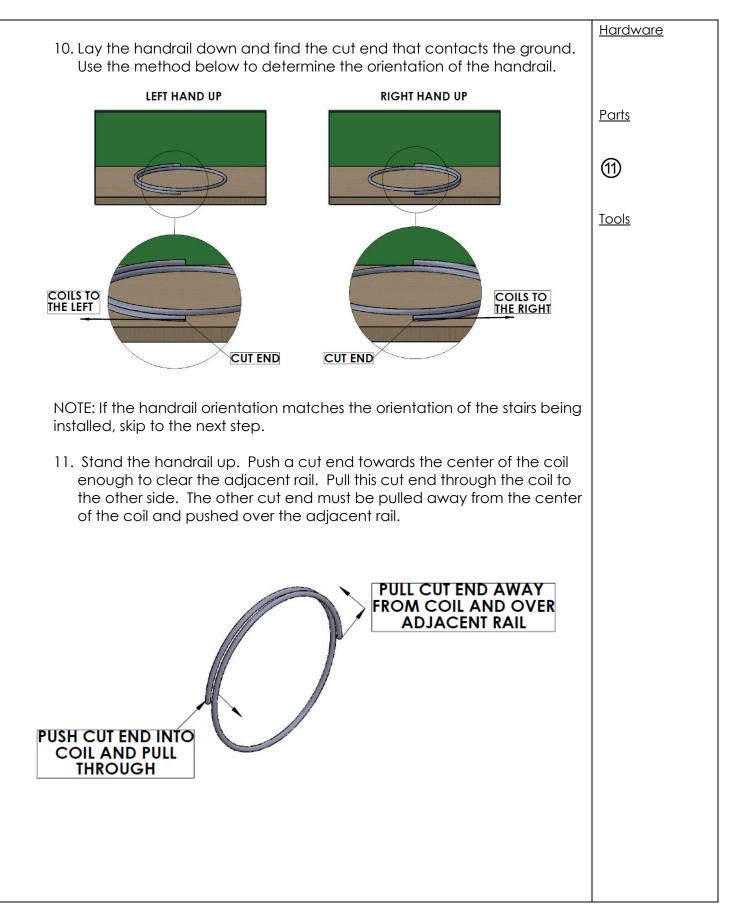


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Hardware 1. The handrail is shipped in a coil that is typically between 36" and 48" in diameter. The first step to fitting the handrail is increasing this diameter to the proper coil diameter listed below. Parts Stair Diameter 5'-0" 3'-6" Coil Diameter 60" 75" (11) NOTE: The coil diameter should be larger than the stair diameter. 2. On a soft surface such as carpet, position the coil as depicted below. The cut end (1) should be approximately 4"-6" off the ground. Tools 3. Insert a lever (2) into the cut end. A wooden handle (such as a broom handle) makes a suitable lever. 4. Hold the coil in place on the side opposite the cut end. Push the lever down until the coil bends slightly. It may be necessary to brace the coil where it contacts the ground to prevent it from slipping during this process. 2:LEVER 3: HOLD IN PLACE PUSH LEVER DOWN 4: HOLD HERE/ 1: CUT END IF NEEDED NOTE: This example depicts a right hand up handrail. The lever would be on the left side of a left hand up handrail. IMPORTANT – The handrail is best formed with a series of many small adjustments. To avoid kinks and/or warped sections, do not sharply bend the handrail.

- 5. Rotate the handrail counterclockwise (clockwise for left hand up) approximately 20 degrees.
- 6. Hold the coil in place on the side opposite the cut end. Push the lever down until the coil bends slightly. It may be necessary to brace the coil where it contacts the ground to prevent it from slipping while forming.

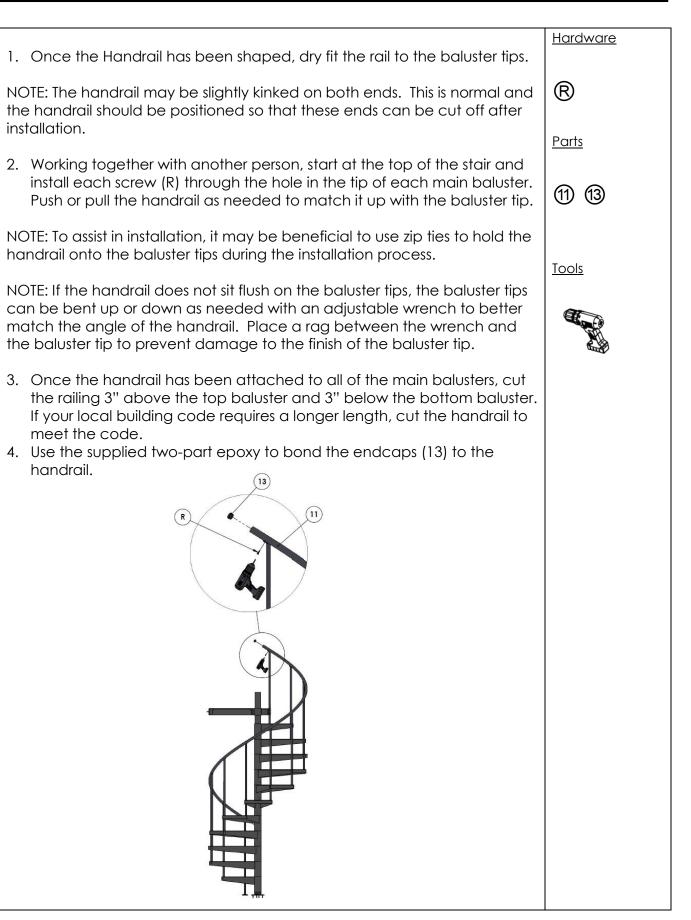




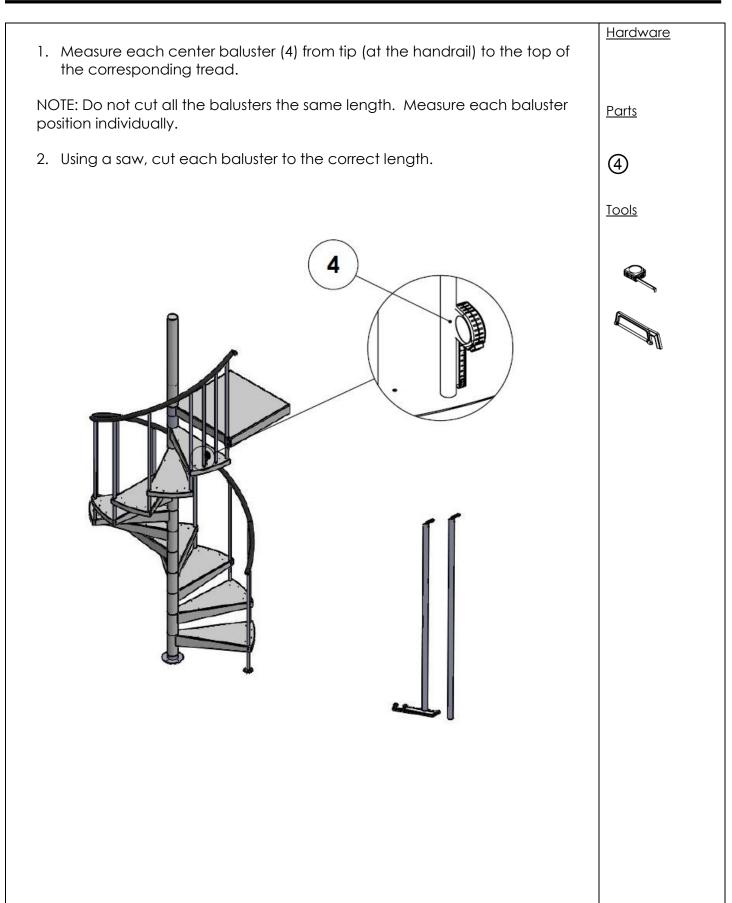
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## Pulling the Handrail into a Spiral

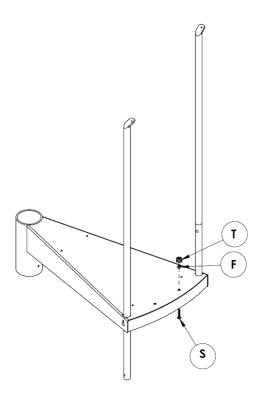
Hardware 1. Determine the end to end length needed based on the diameter of the stair being installed. 3'-6" 5'-0" Stair Diameter <u>Parts</u> End to End Length 14' 11' (11) 2. With the help of another person, pull the handrail apart to the desired end to end length. Stop periodically to inspect the handrail for any kinks that may be forming. <u>Tools</u>



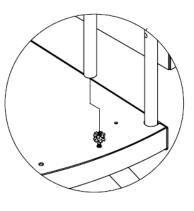
## **Center Baluster Installation**



- 3. Insert bolt (S) through the tread and into hex nut (F). Do not fully tighten the hex nut.
- 4. Thread a tube connector (T) onto the exposed threads of the bolt until it is seated against the hex nut. Make sure the flanges on the tube connector are facing down towards the tread surface. Unscrew the tube connector one revolution to create a gap between the nut and the tube connector.



- 5. Ensure that the baluster tip is in line with the handrail, then slide the center baluster onto the tube connector.
- 6. Install screw (R) through the hole in the tip of each center baluster.
- 7. Tighten the screw that was installed in step 3. This will pull the baluster against the tread and complete the connection.



8. Repeat steps 1-7 for each center baluster.

platform.

**WARNING** 

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