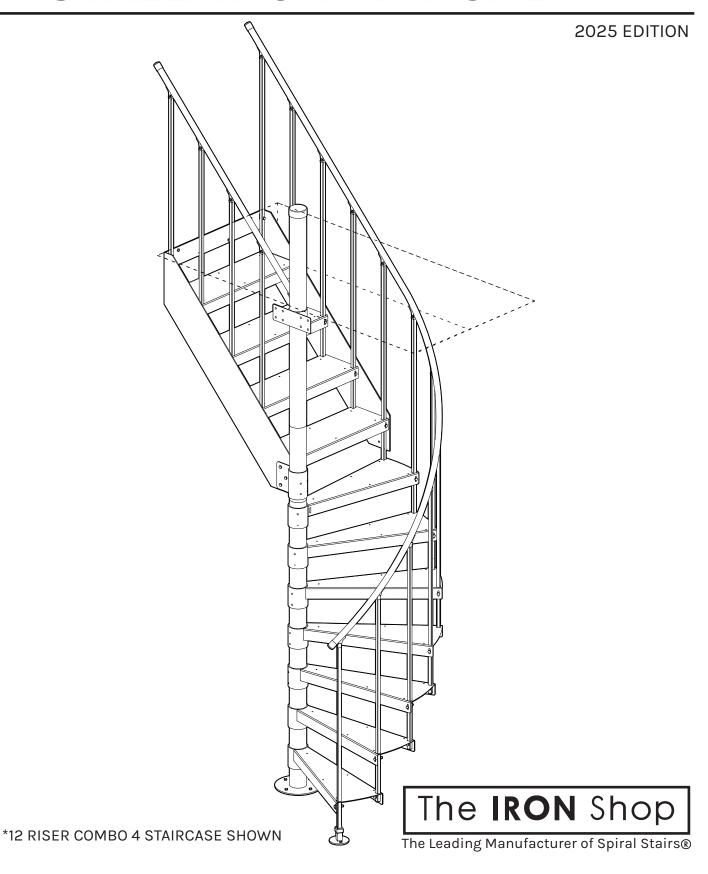
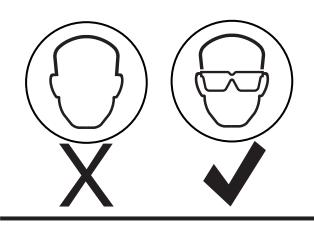
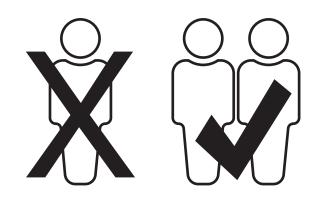
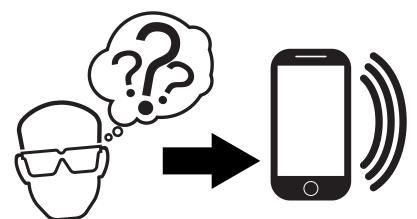
# COMBINATION SPIRAL STAIR INSTALLATION MANUAL





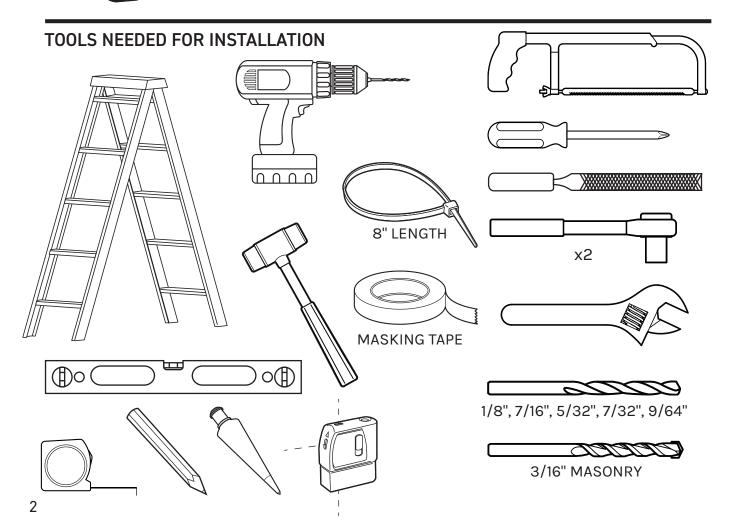




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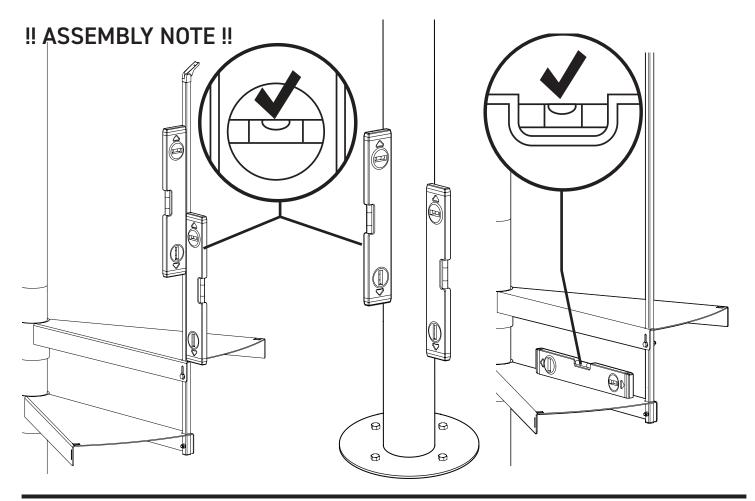
# **INCLUDED** $\oplus$ (E) (C) (G (X) $\mathbb{R}$ (Y)(3)

#### PLEASE REFER TO YOUR ORDER FORM FOR RISER HEIGHT AND PART QUANTITY.

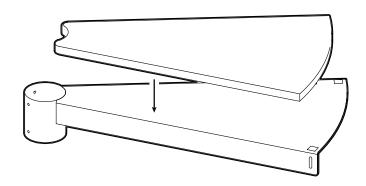
- (A) Center Pole
- (B) Tread
- © Combo Bracket
- (D) Center Pole Base Plate
- (E) Flat Mount Bracket
- (F) Main Spindle
- G IRS-4 Tube Bottom Cup & Starter Post Base Plate
- (H) Handrail Coil
- ① Inside Straight Handrail
- Screw
- (K) 1/4" x 2-1/4"Hex-Washer Head Masonry Screw

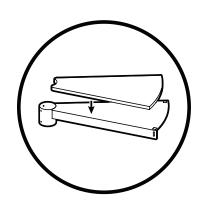
- M 1/4" x 2" Heavy Duty Lag Screw
- (N) Handrail Pivot Fitting
- ① 1/4" 20 x 1-1/2" Hex Serrated Flange Bolt
- (P) 1/4" 20 Hex Serrated Flange Nut (2) Vinyl Pole Top Cap
- ( IRS-1 Flipper Head
- (R) 5/16 x 1" Hex Head Bolt
- (S) 5/16 Hex Nut
- (T) 5/16" Lock Washer
- ① #10-24 x 3/4" Flat Head Machine ① #6-32 1-1/4" Machine Screw w/ Toggle Wing
  - (V) 5/16" 18 5/16" Set Screw

- (W) #10 x3/4" Pan Head Sheet Metal Screw
- (X) Stair Lower Straight Run (Combo-4 Tread Shown, 5 Tread Also Available)
- (Y) Spindle Post End Cap
- 1 Vinyl Handrail End Cap
- ② Rubber Cap for 1/4" "O" Bolts
- (3) Hex Key for 5/6" Set Screws
- (4) #10-24 x 1/2" Round Head Thread Forming Screw
- (5) IRS 2 Adjustable Fitting

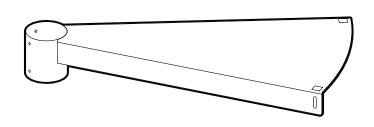


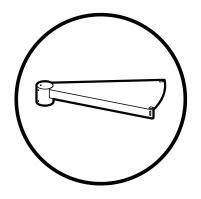
### WOOD COVERING

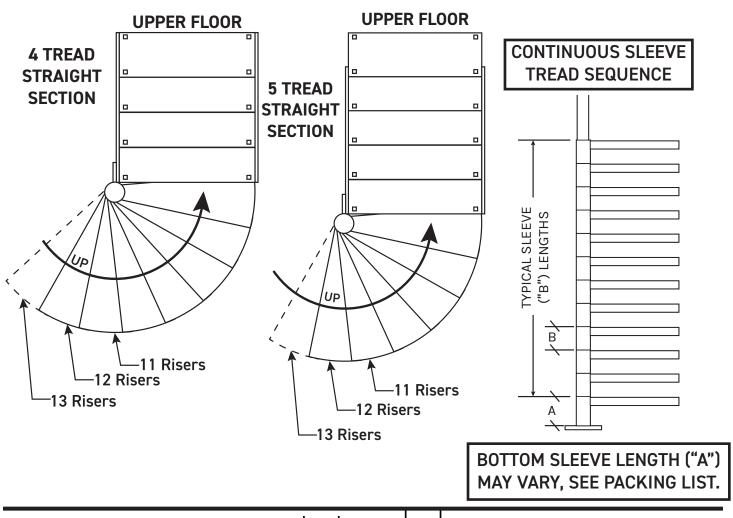


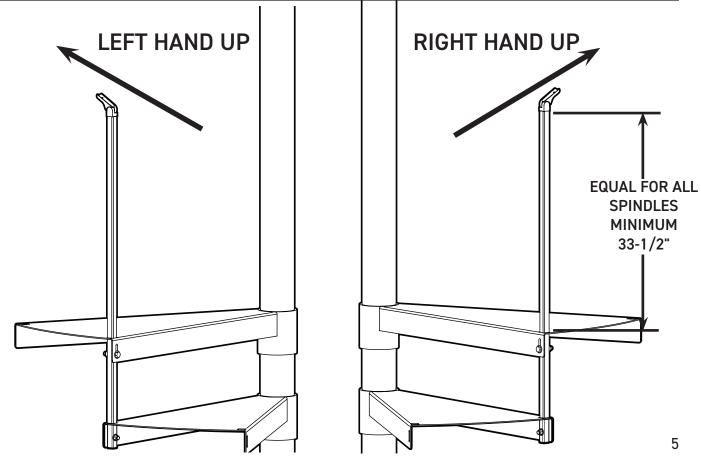


### NO WOOD COVERING

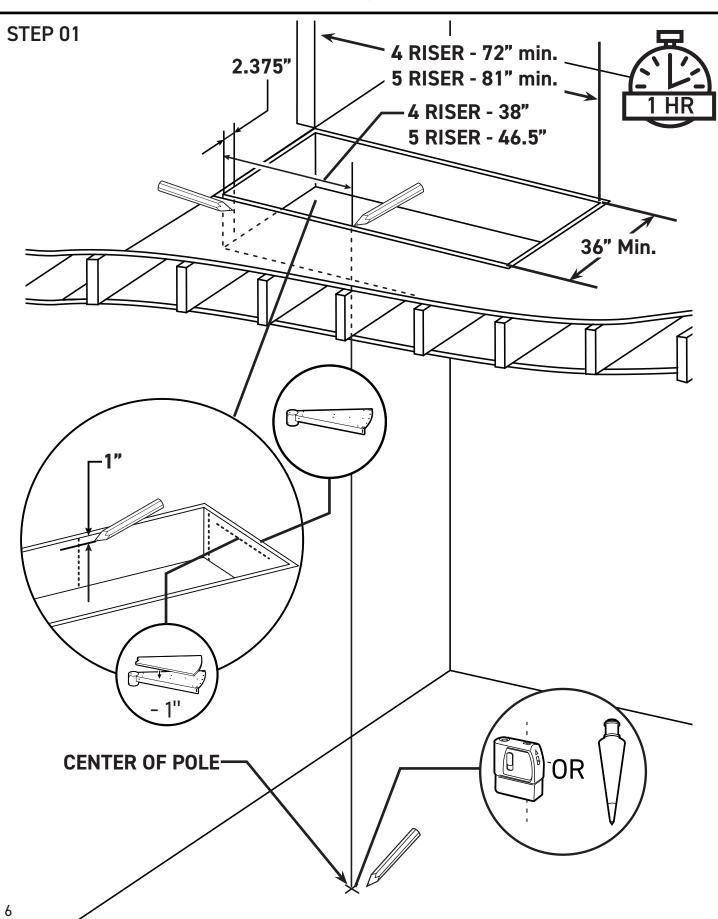






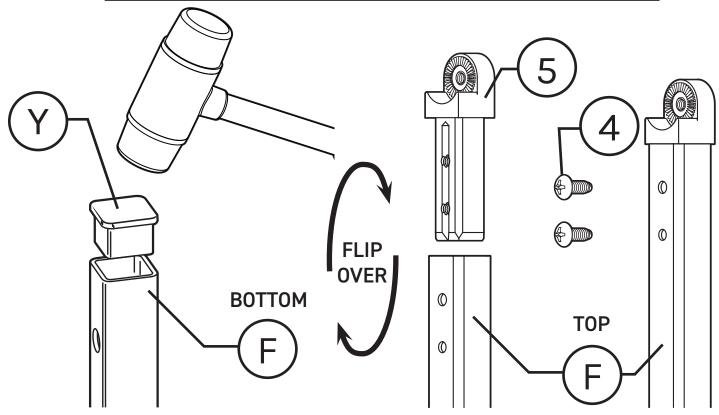


### **SPIRAL STAIR INSTALLATION**



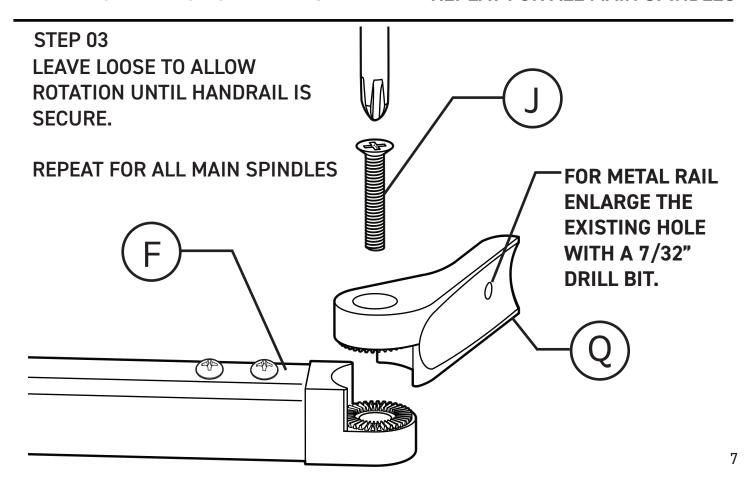
**STEP 02** 

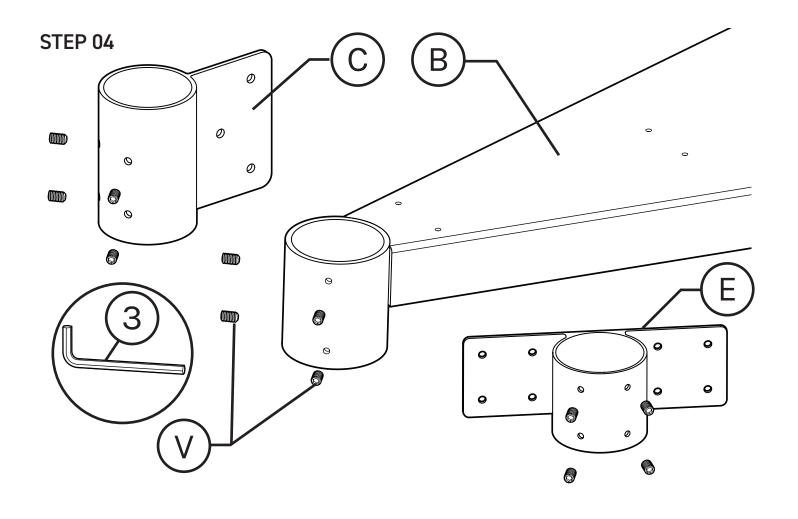
### ASSEMBLY NOTE: DO NOT PLUG SPINDLES FOR OUTDOOR STAIRS. DRAINAGE REQUIRED.



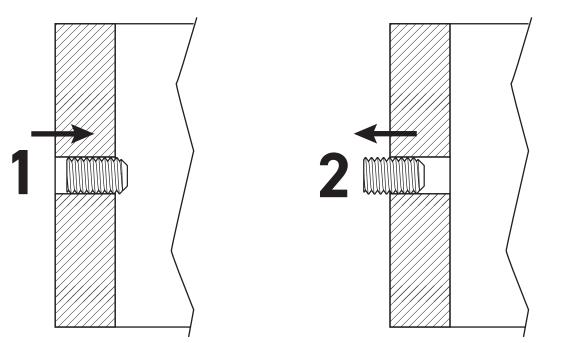
REPEAT FOR ALL BUT ONE MAIN SPINDLE

REPEAT FOR ALL MAIN SPINDLES



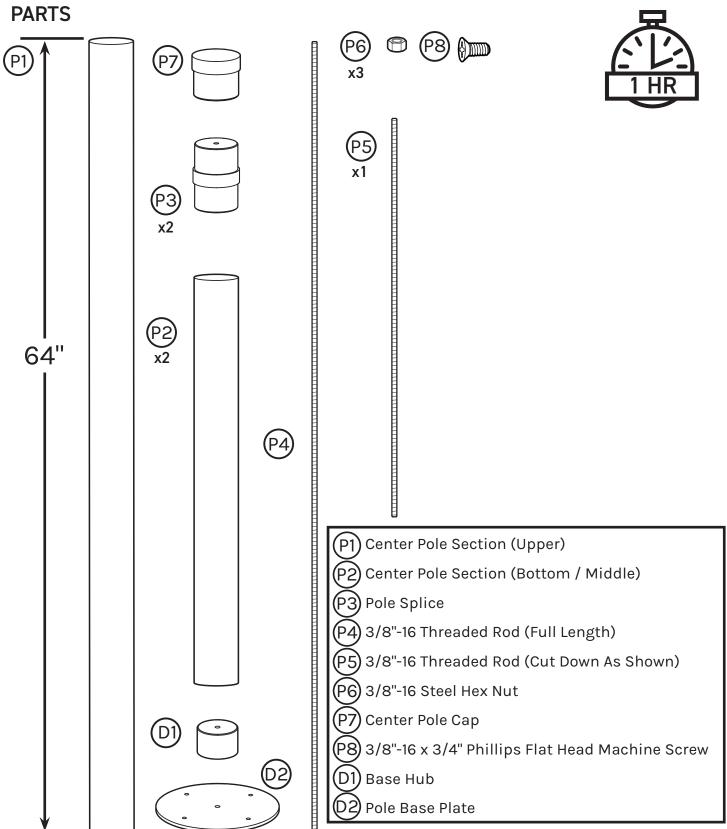


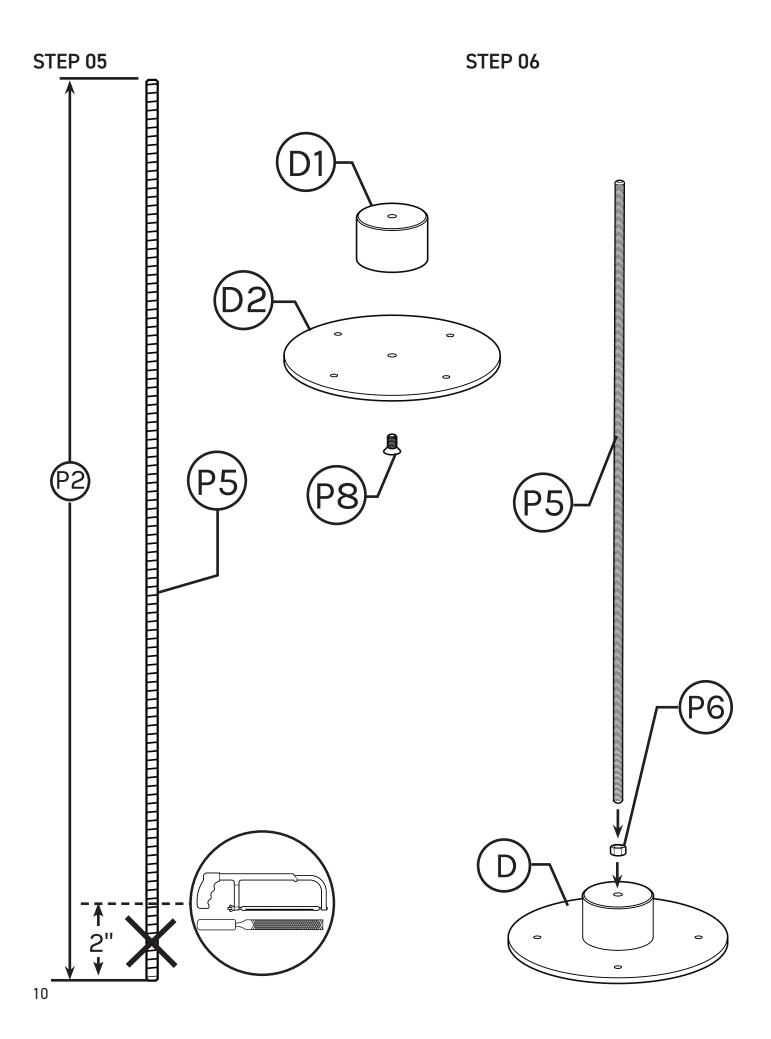
# INSERT SET SCREW ALL THE WAY INTO THE TREAD, THEN BACK OUT 1/2 WAY

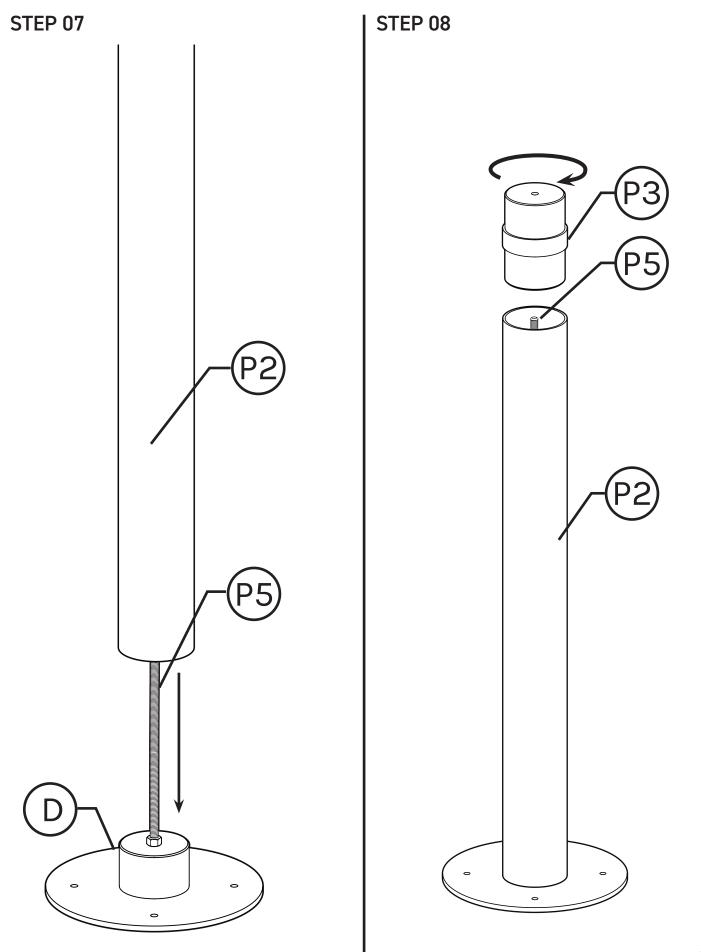


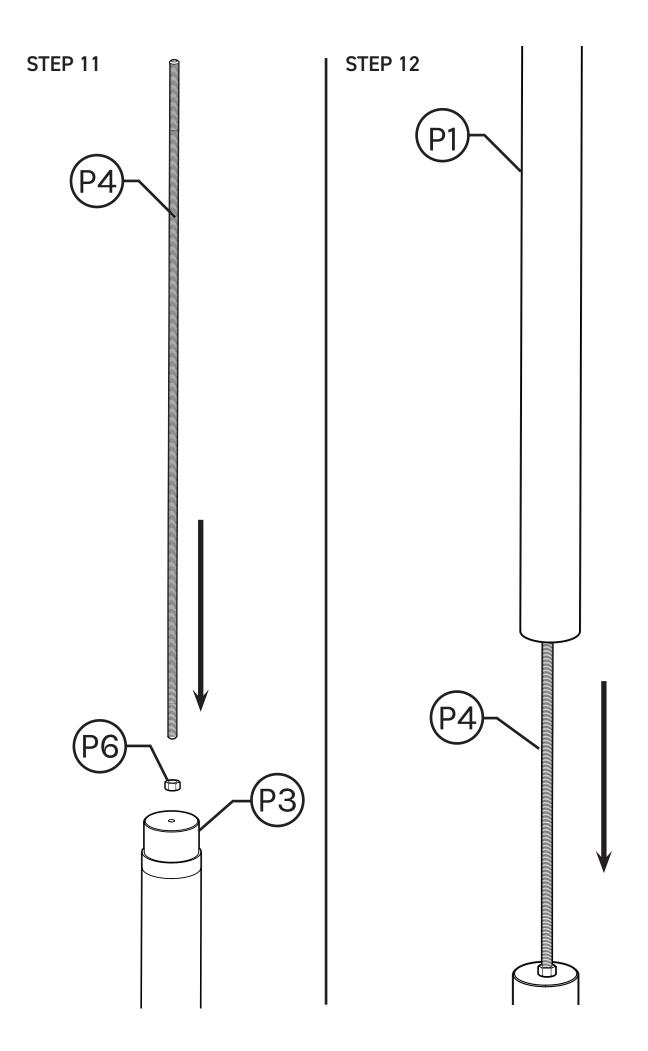
### CENTER POLE ASSEMBLY: FOR SINGLE PIECE CENTER POLE SKIP TO STEP 15.

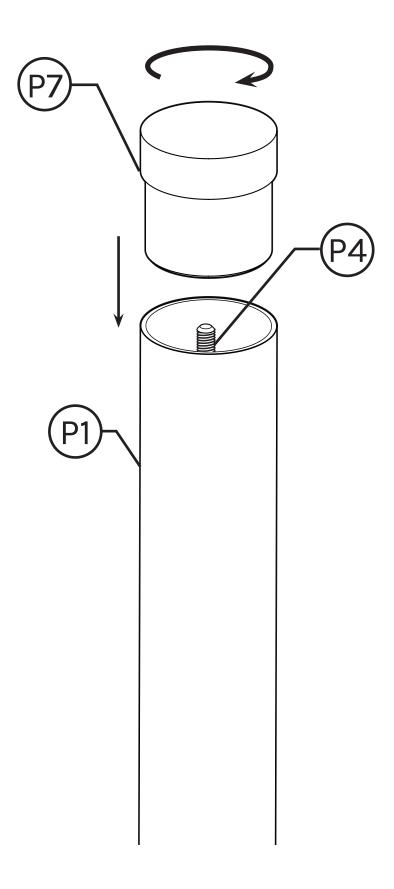
IF YOUR STAIR IS ALUMINUM WITH A MULTI-PIECE POLE USE THE PROVIDED WHITE LITHIUM GREASE TO LUBRICATE THE POLE SPLICES PRIOR TO INSERTING THEM INTO THE CENTER POLE TUBES.

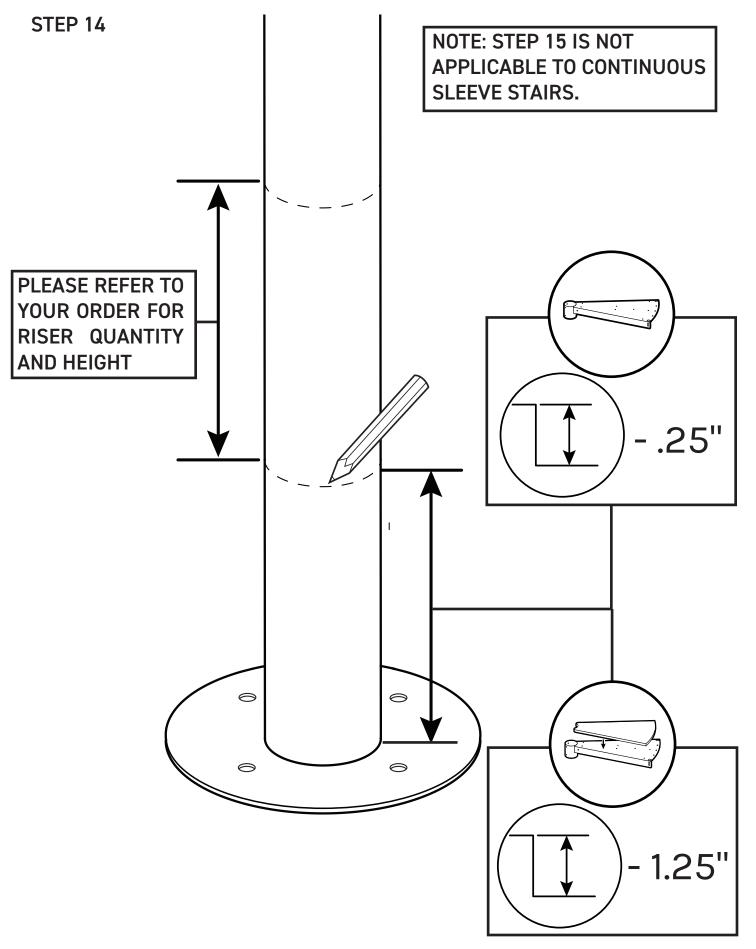


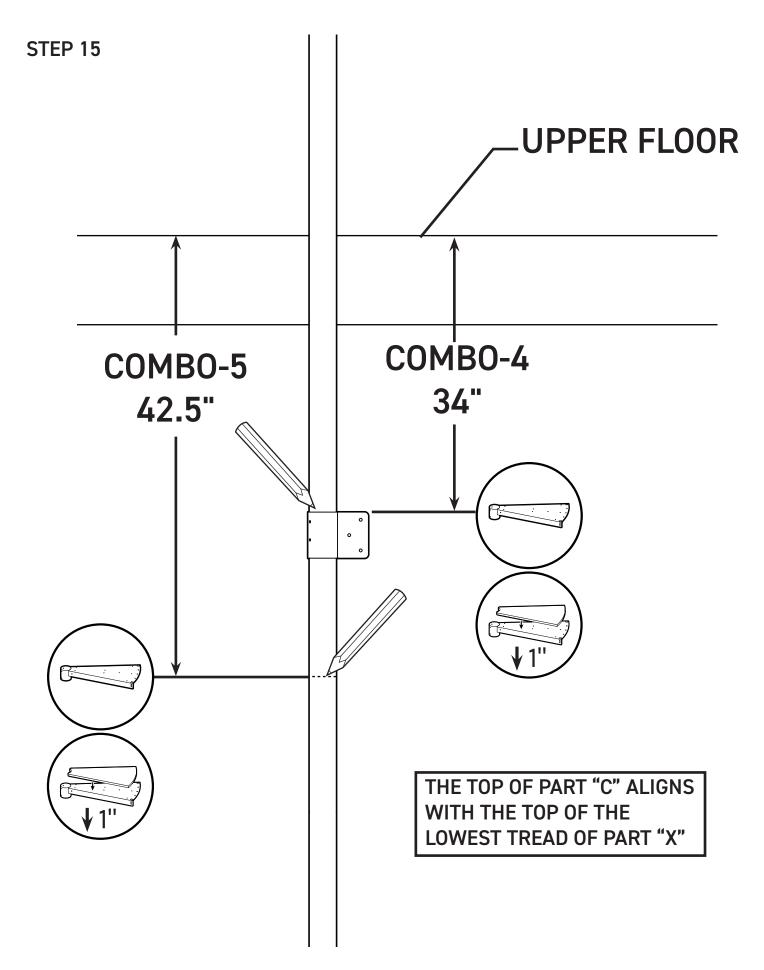


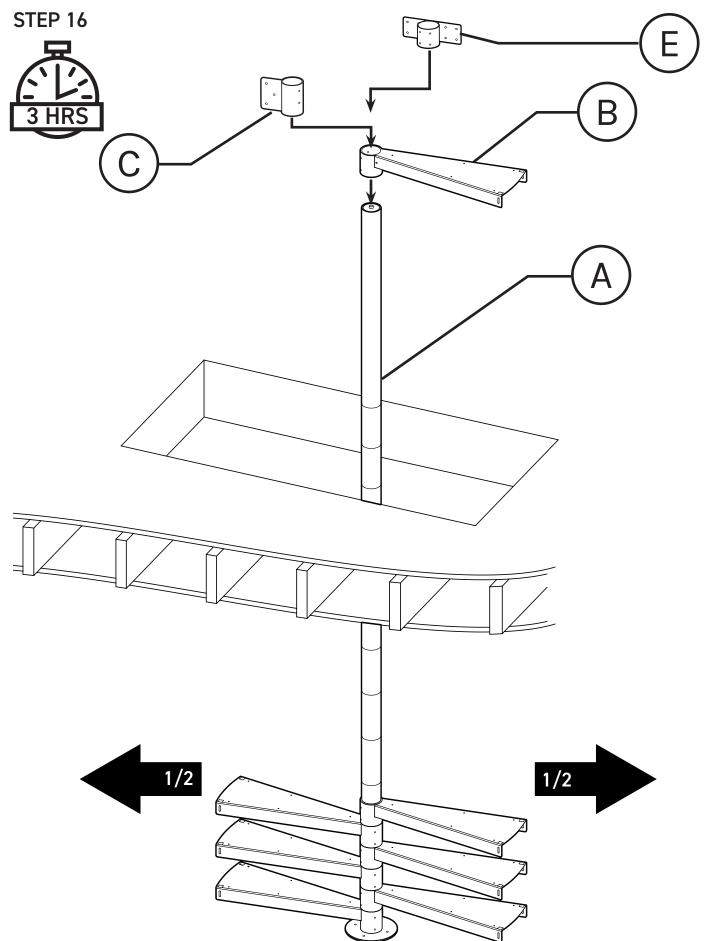


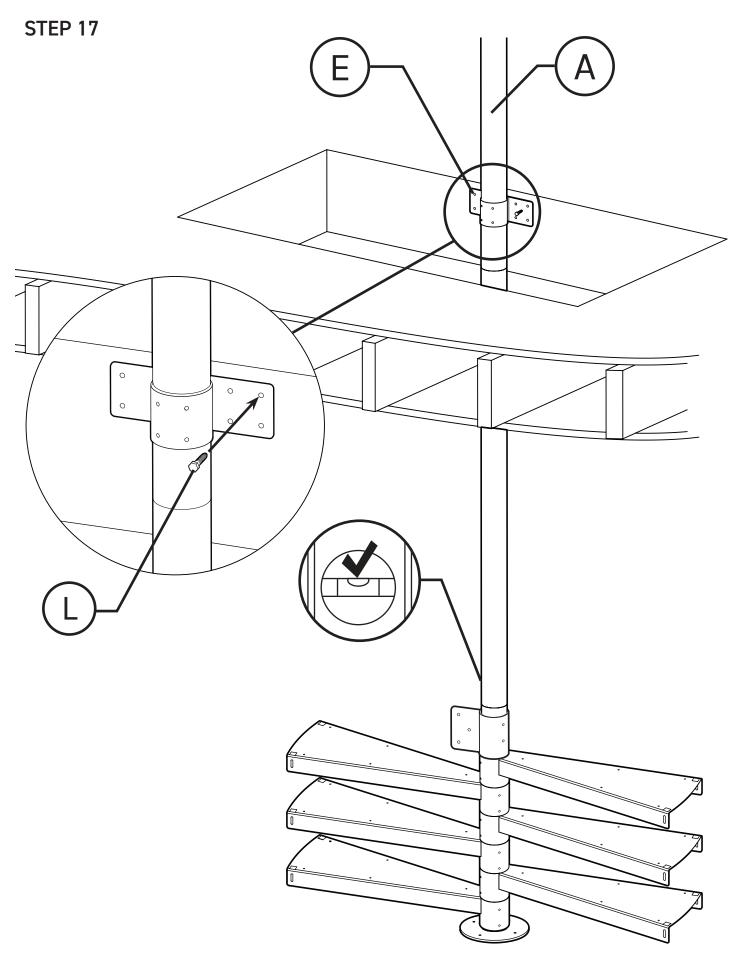




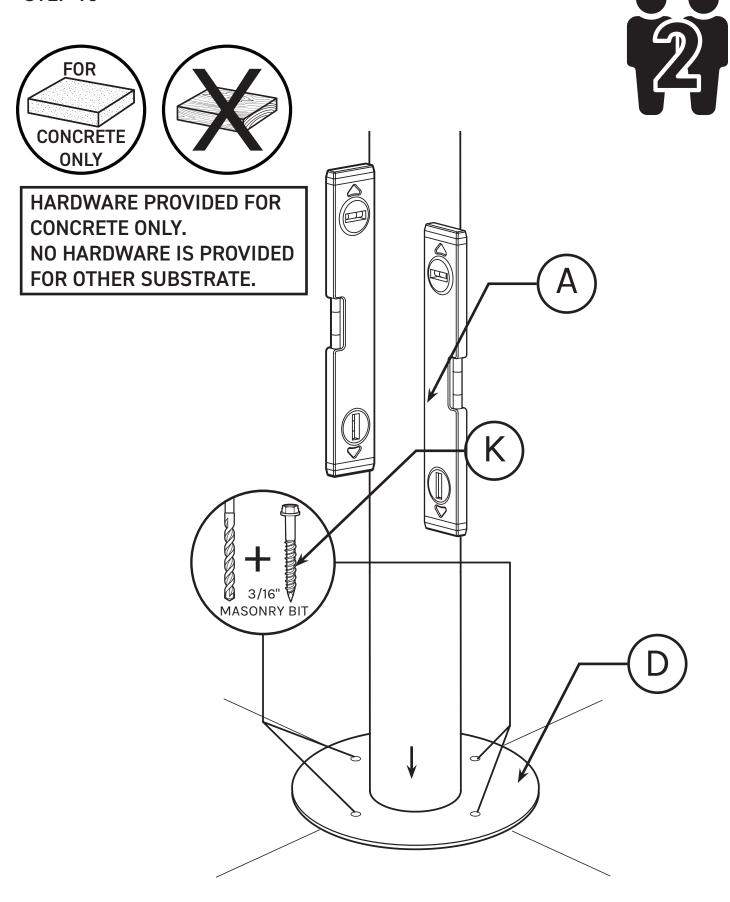


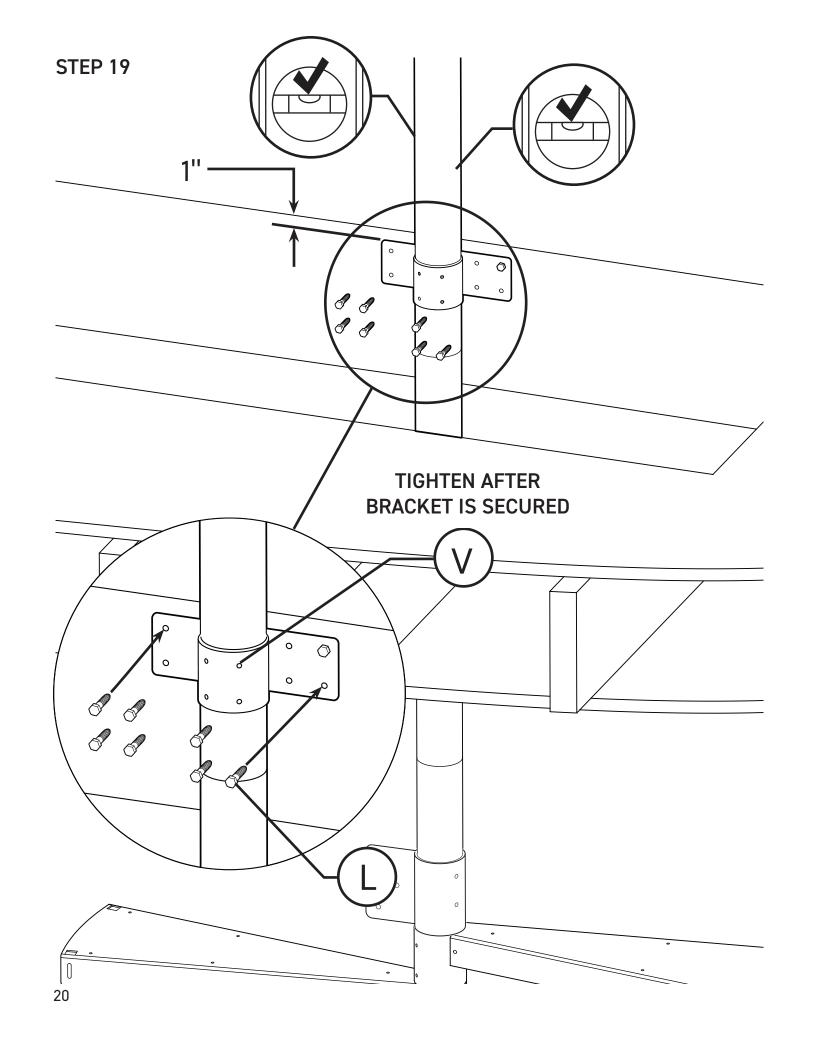




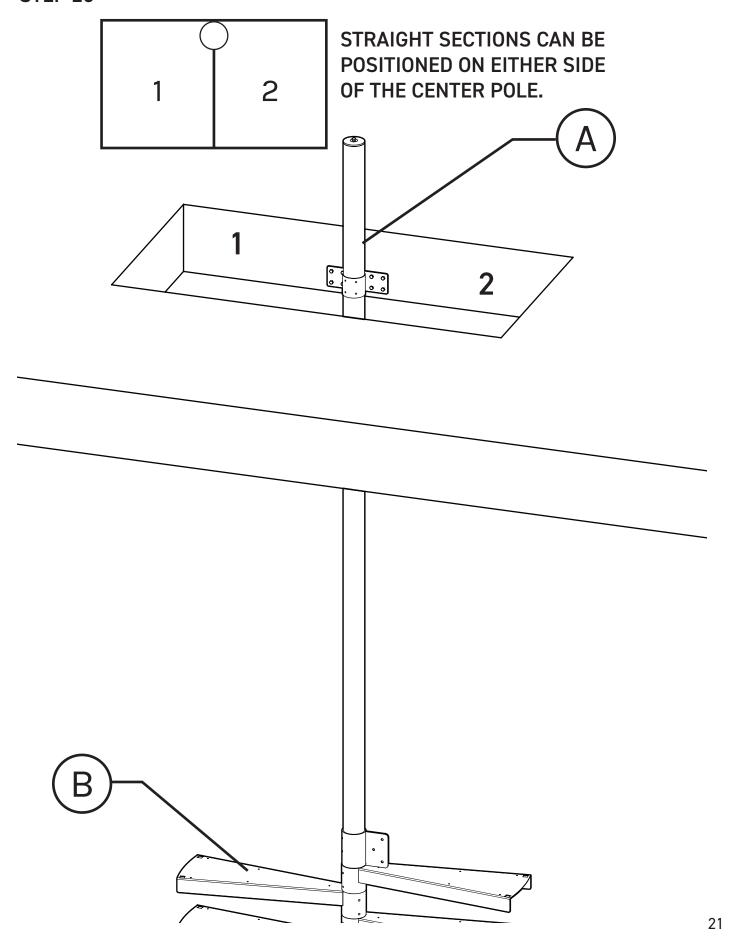


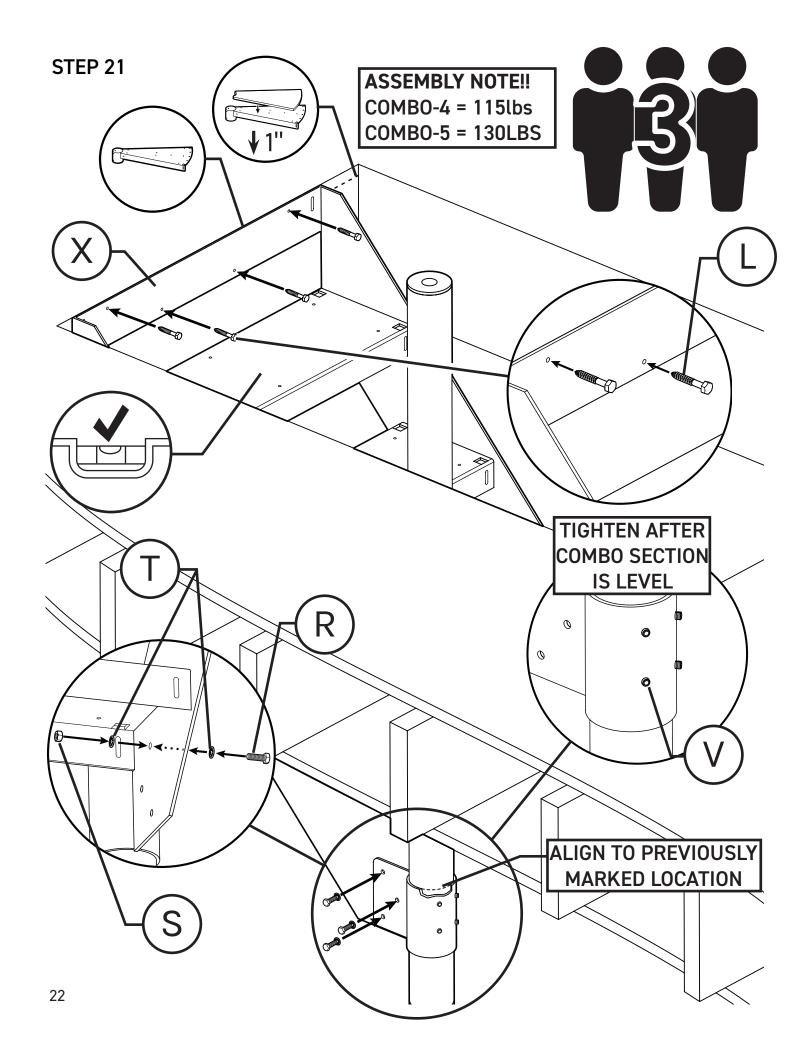
### **STEP 18**



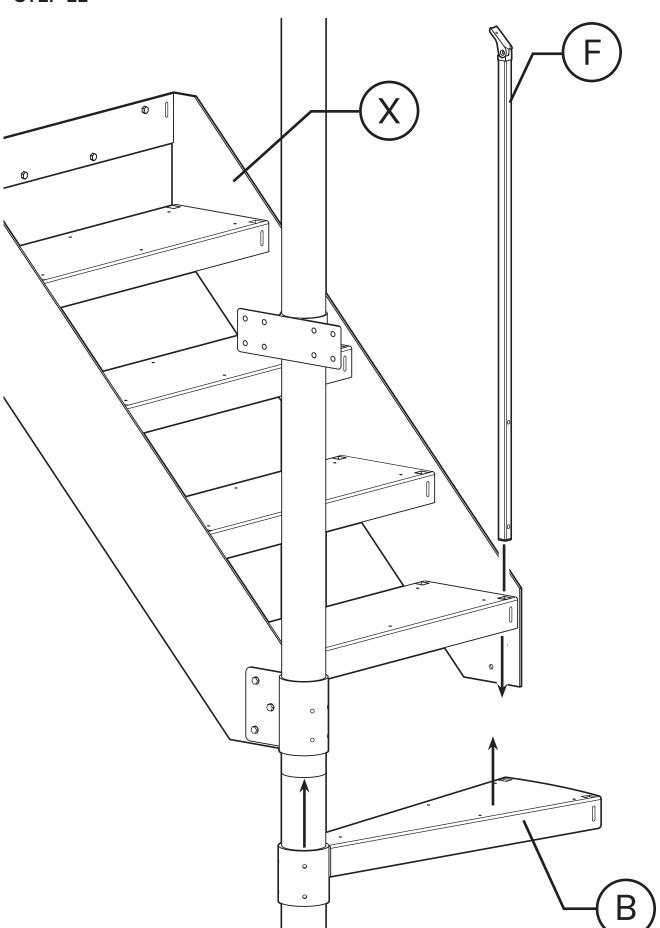


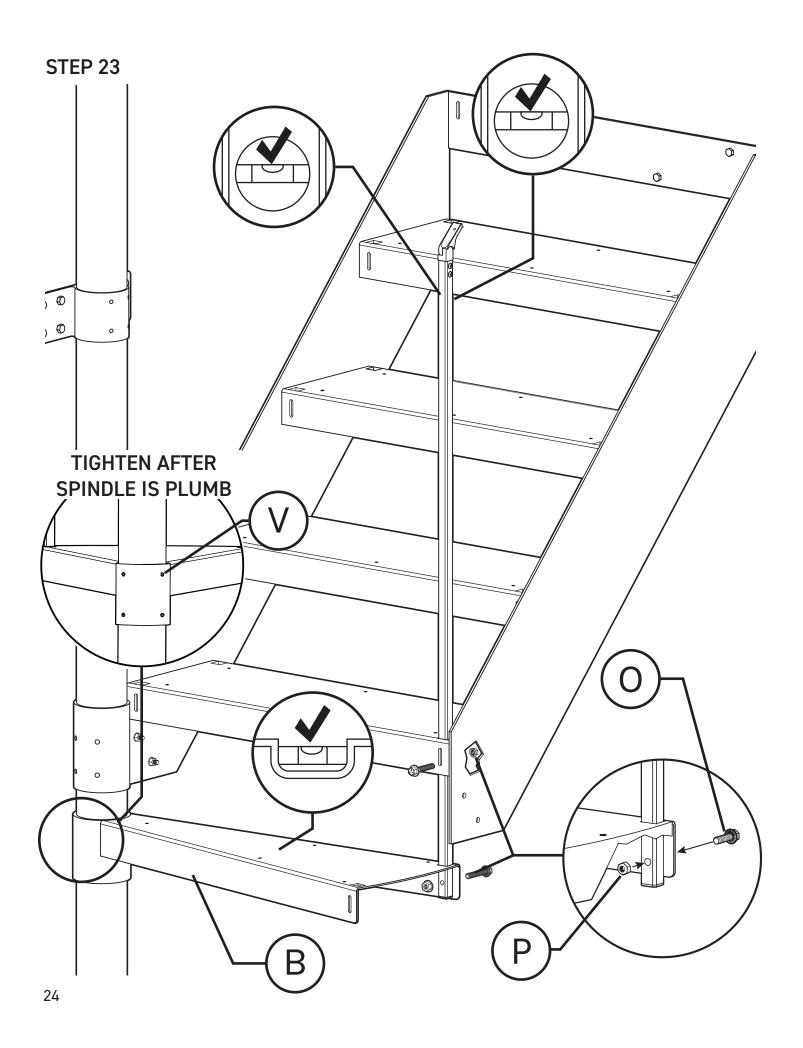
**STEP 20** 



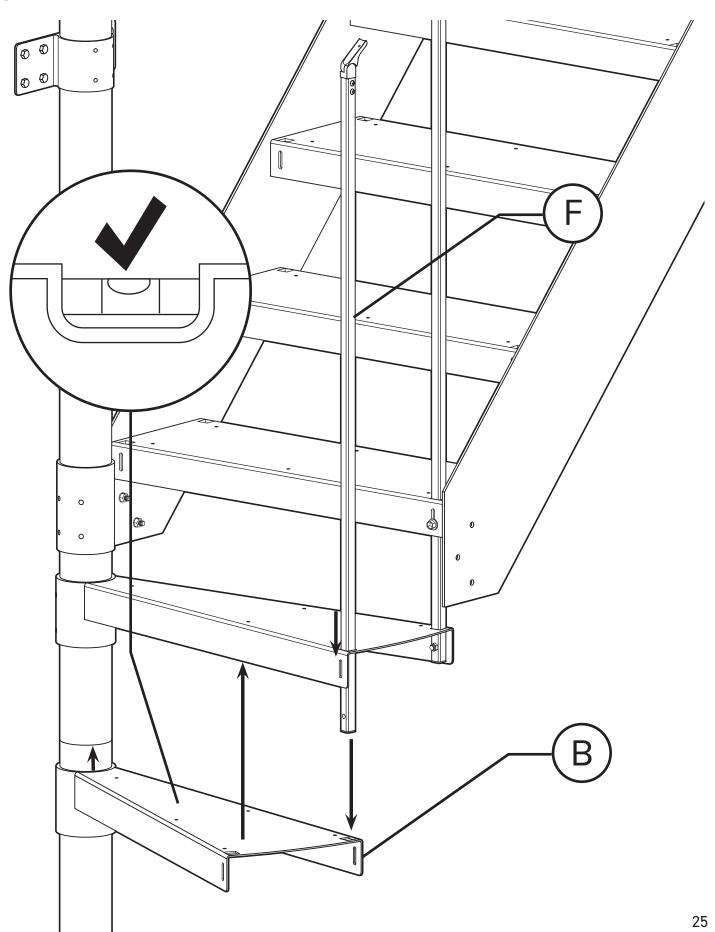


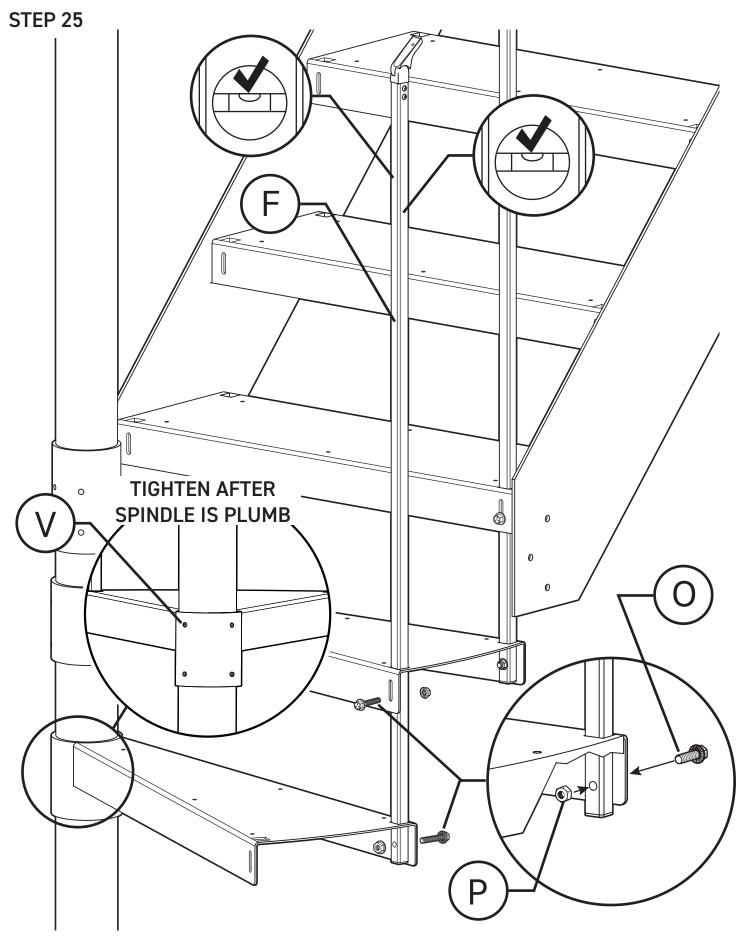
STEP 22

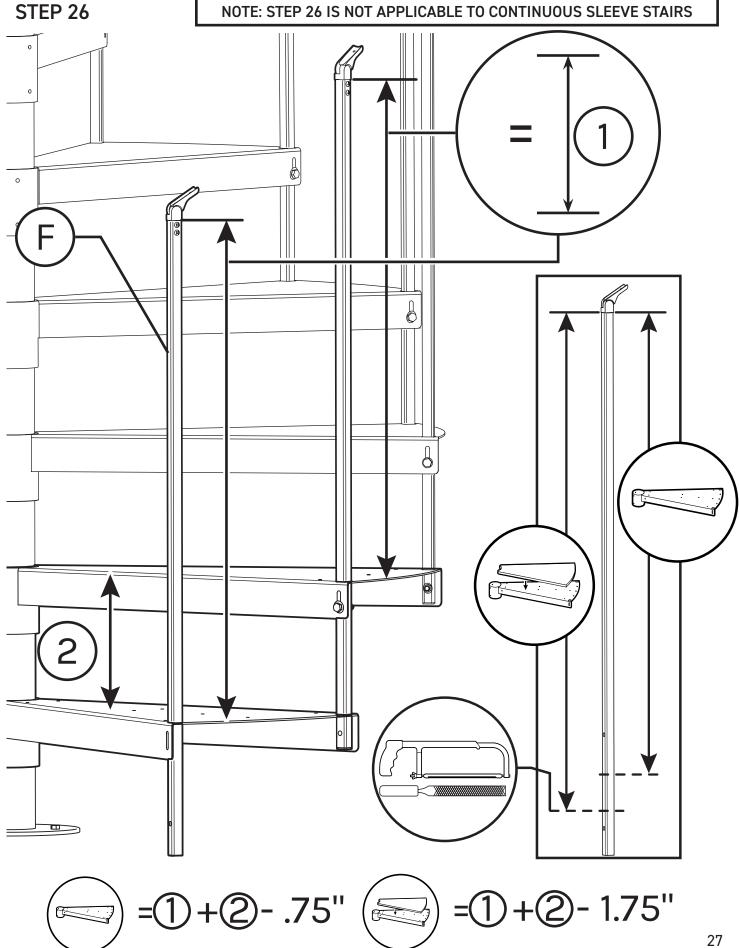


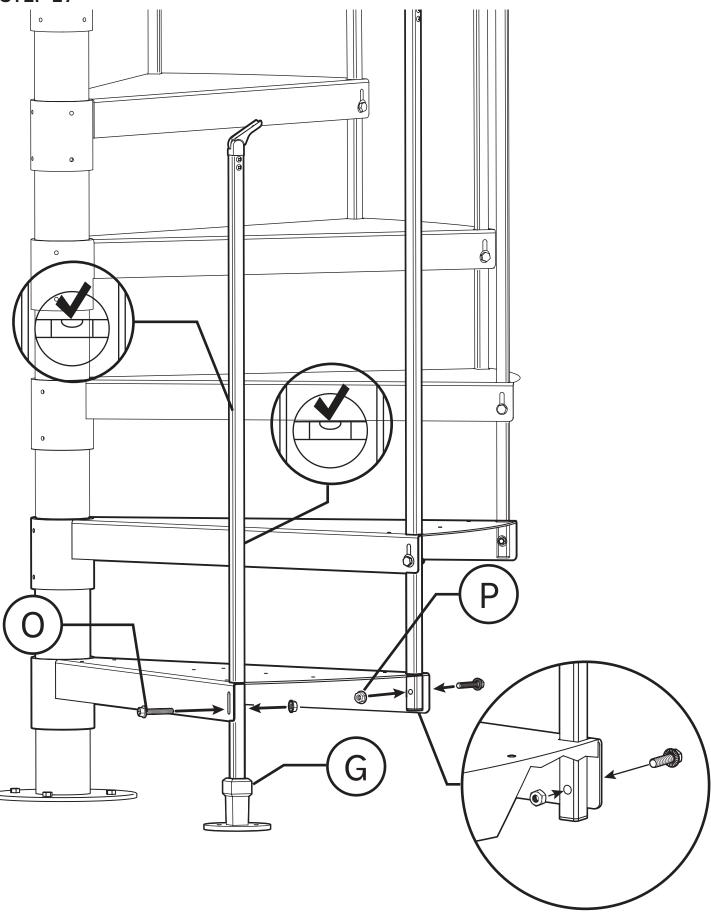


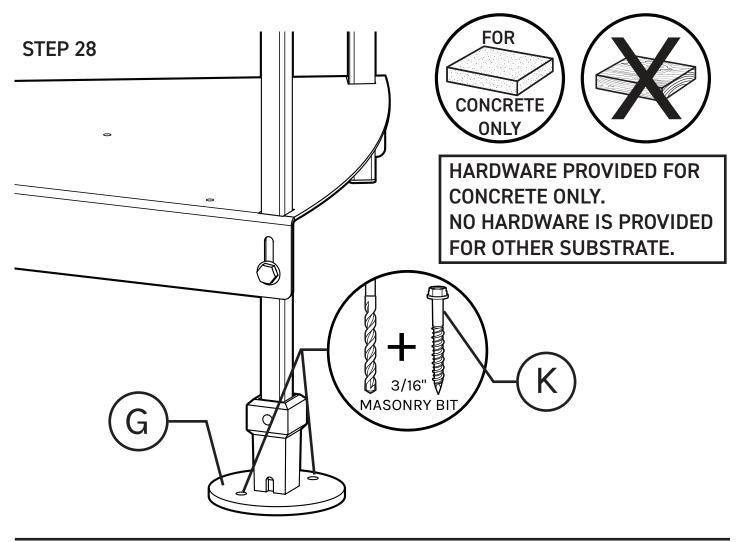
### STEP 24

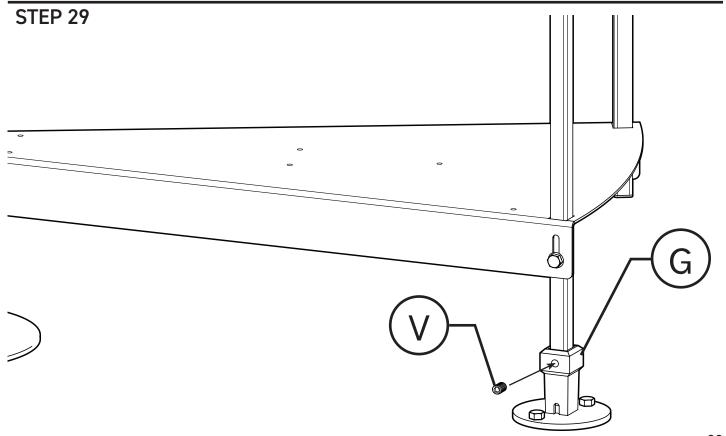


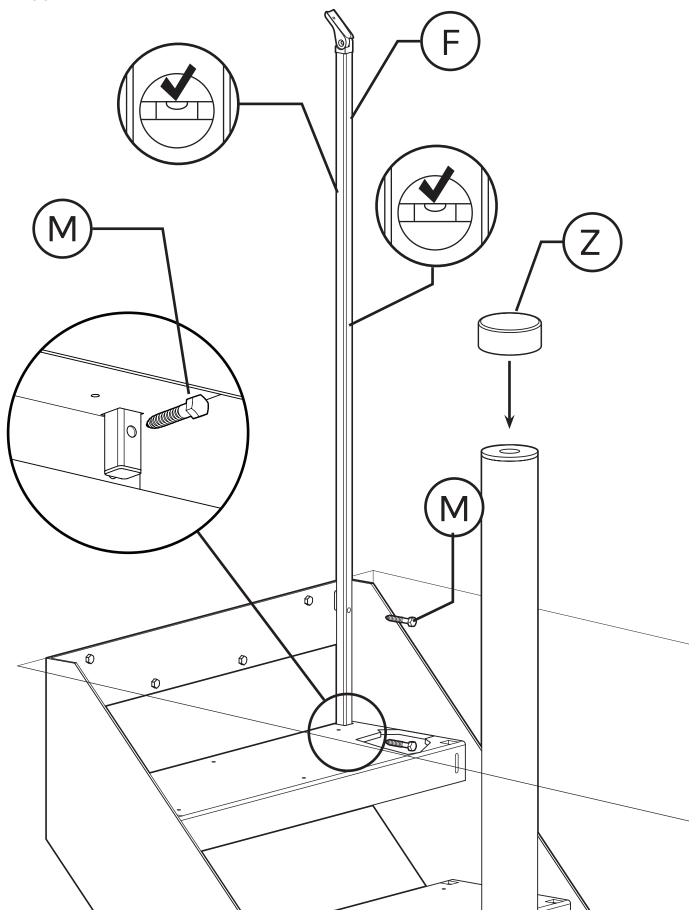


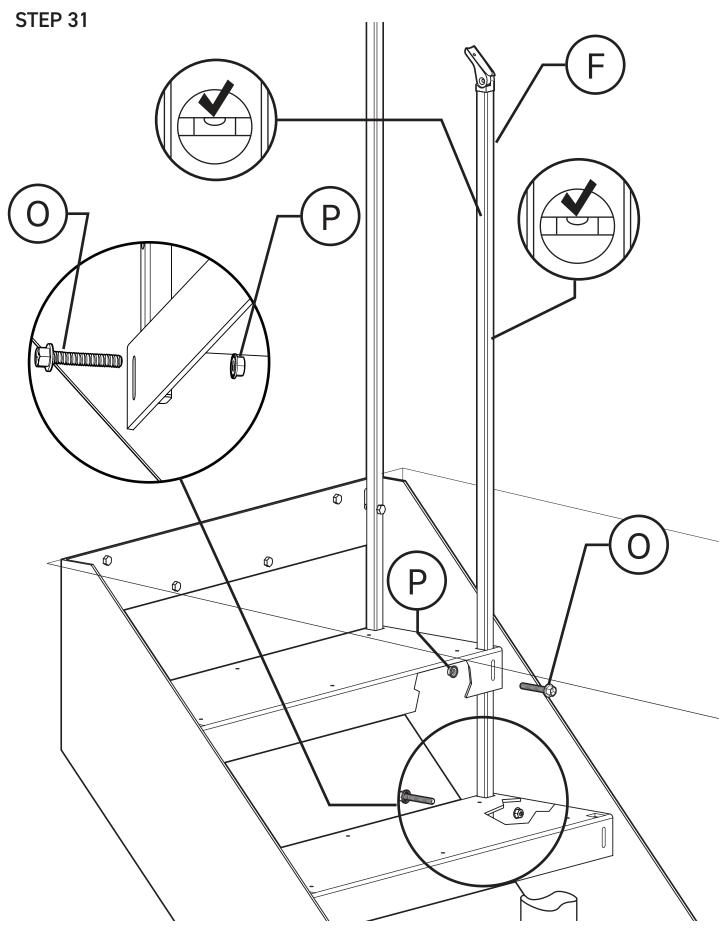








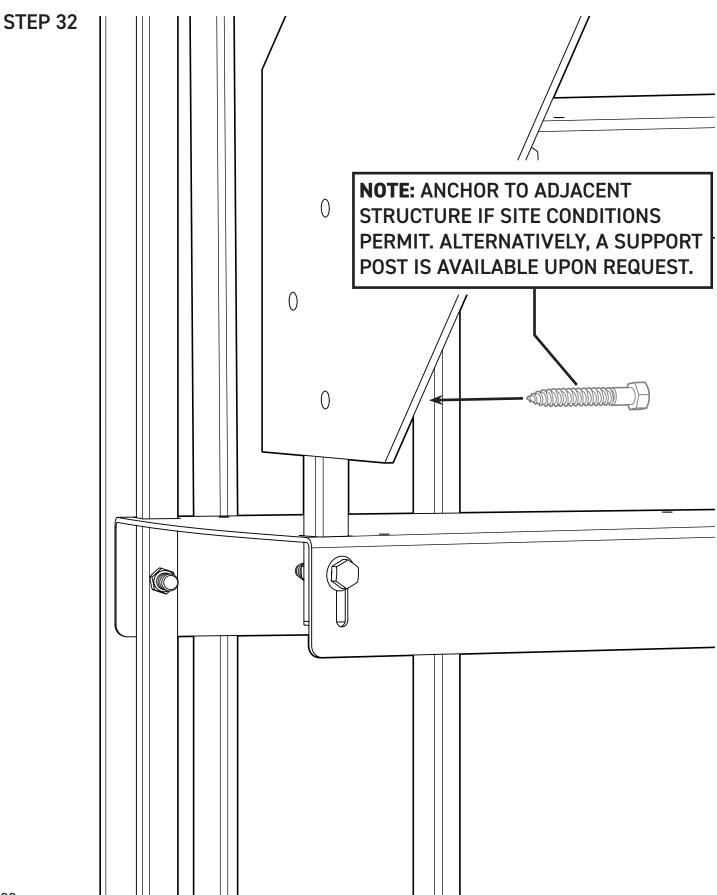




REPEAT STEP FOR ALL SPINDLES ON BOTH SIDES.

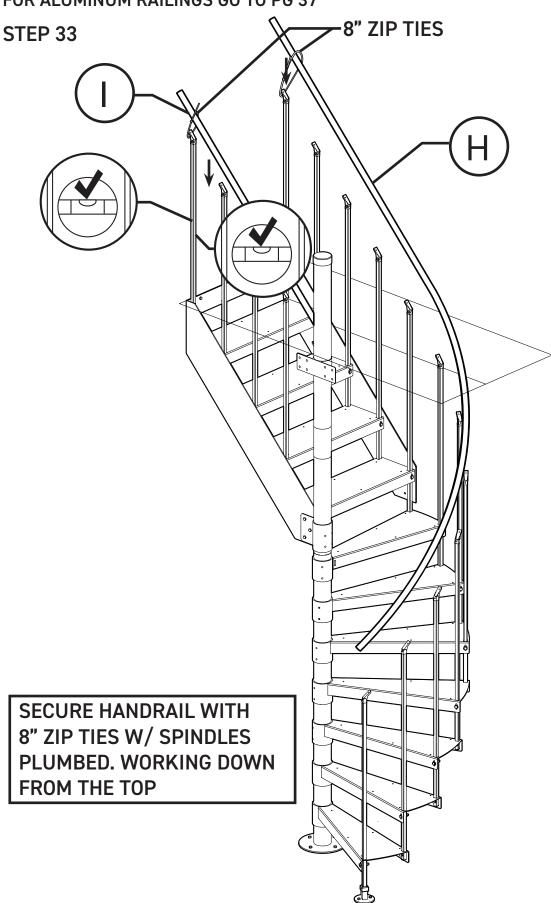
### LOWER SUPPORT INSTALLATION:

IF THERE IS NO ADJACENT WALL OR SUPPORT, CALL FOR AN OPTIONAL SUPPORT POST.



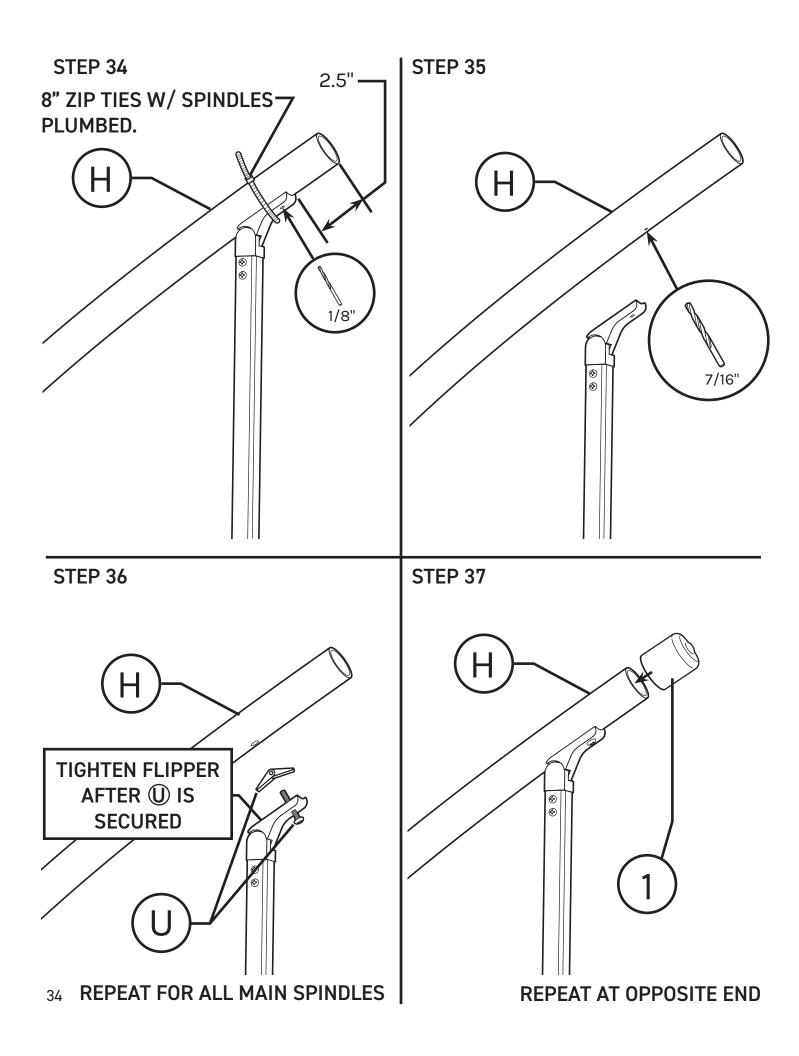
### **VINYL RAILING INSTALLATION:**

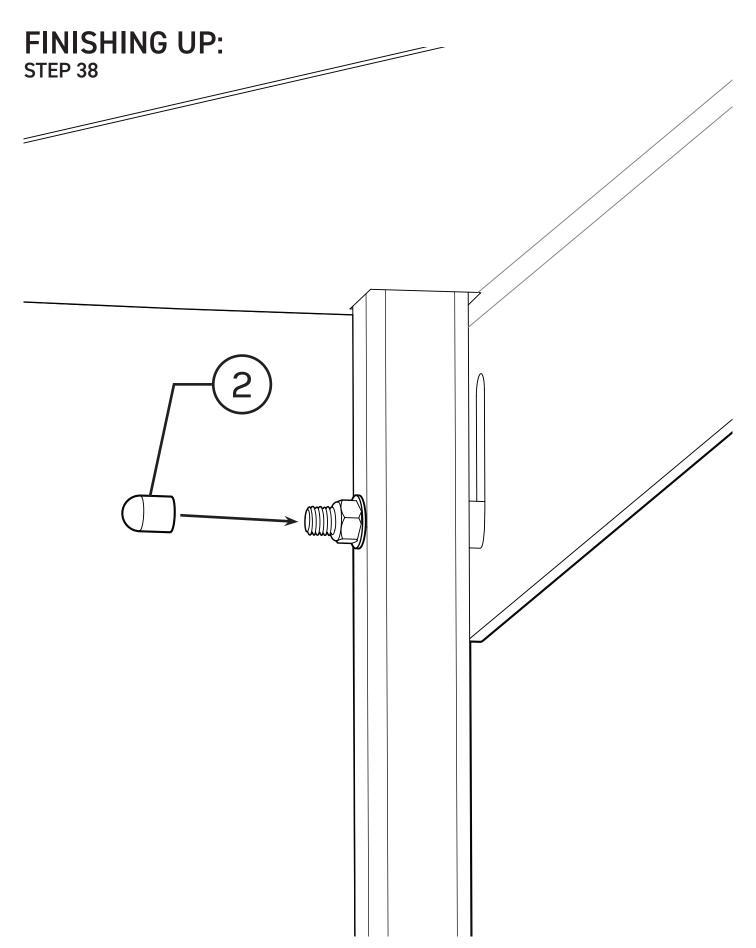
FOR ALUMINUM RAILINGS GO TO PG 37







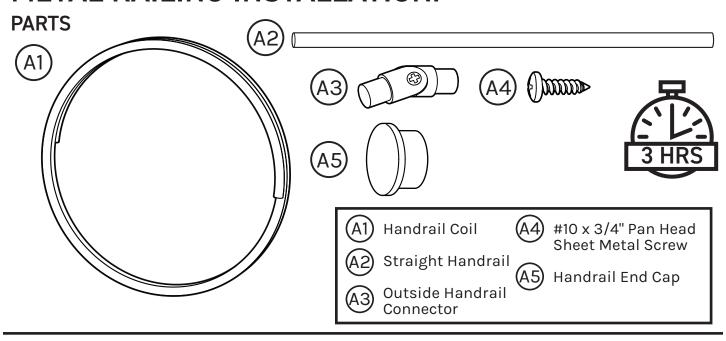




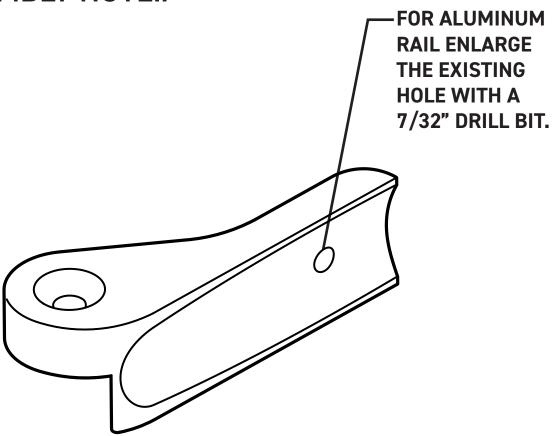
## **SPIRAL STAIR OPTIONS**

METAL RAILING INSTALLATION:PAGE 3	<b>37</b>
WOOD COVERING INSTALLATION:PAGE	46
WOOD RAILING INSTALLATION:PAGE	48
MULTI LINE RAILING INSTALLATION:PAGE	51
RING® LIGHT INSTALLATION:PAGE S	<b>5</b> 5

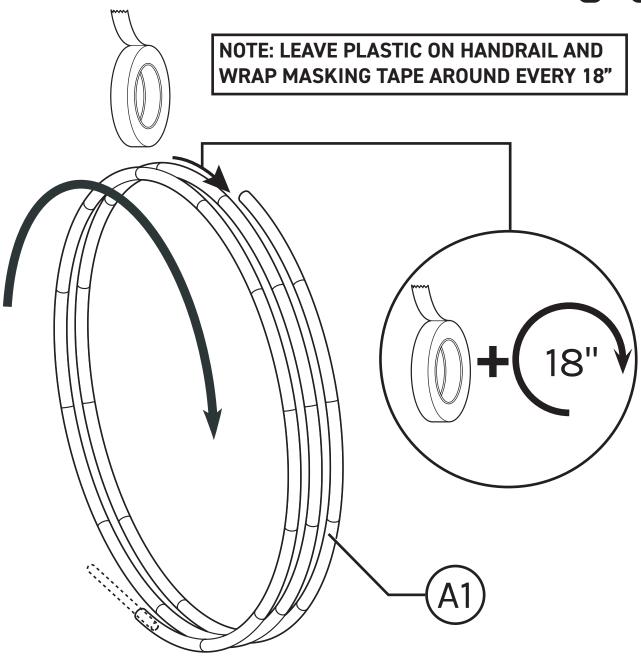
# **METAL RAILING INSTALLATION:**



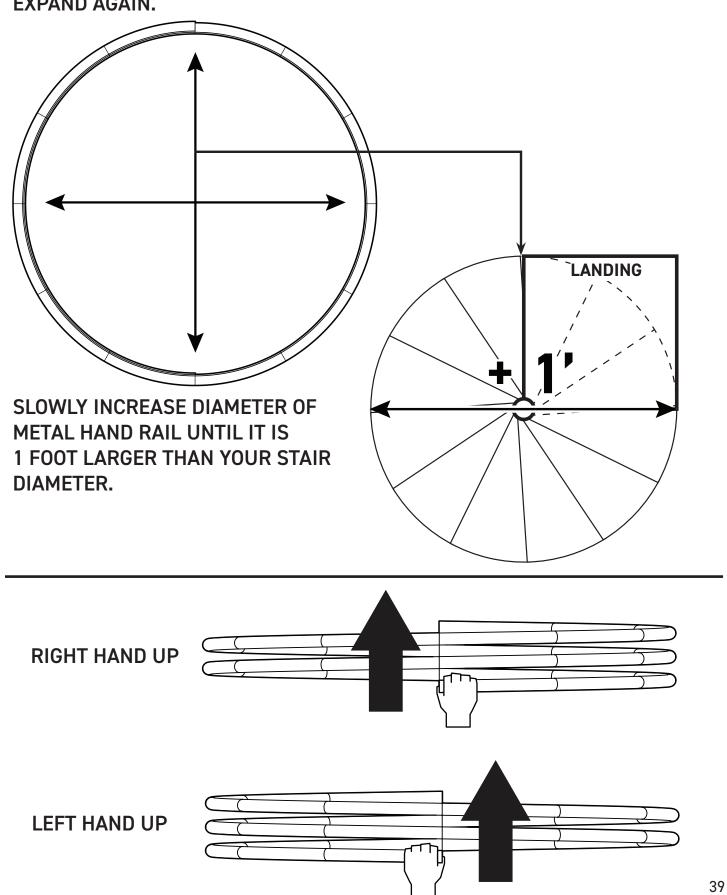
# **ASSEMBLY NOTE!!**

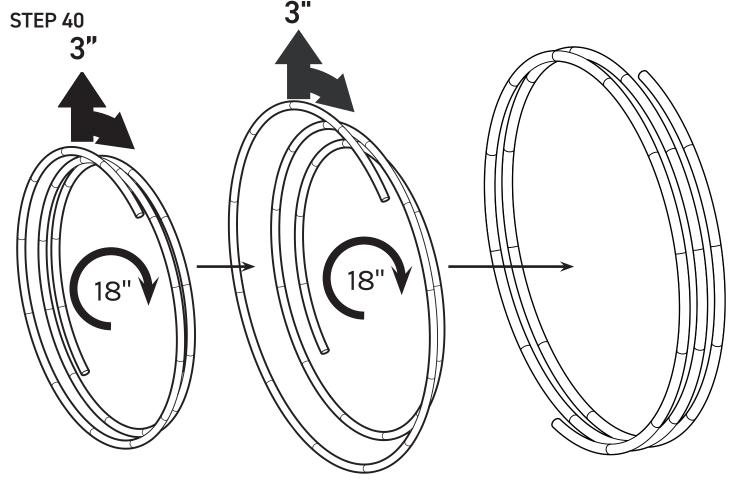






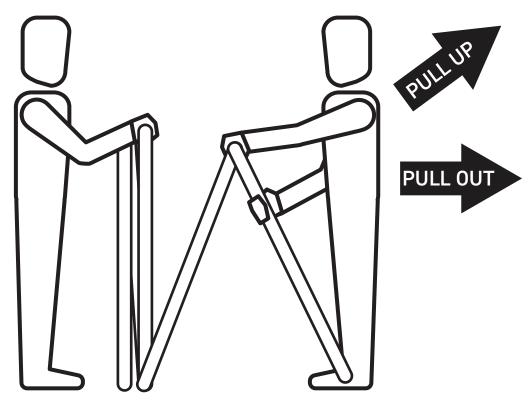
!! NOTE !! METAL RAILINGS CANNOT BE REFORMED ONCE YOU START EXPANDING IT. EXPAND SLOWLY, ROTATING TO THE NEXT MARK AND EXPAND AGAIN.



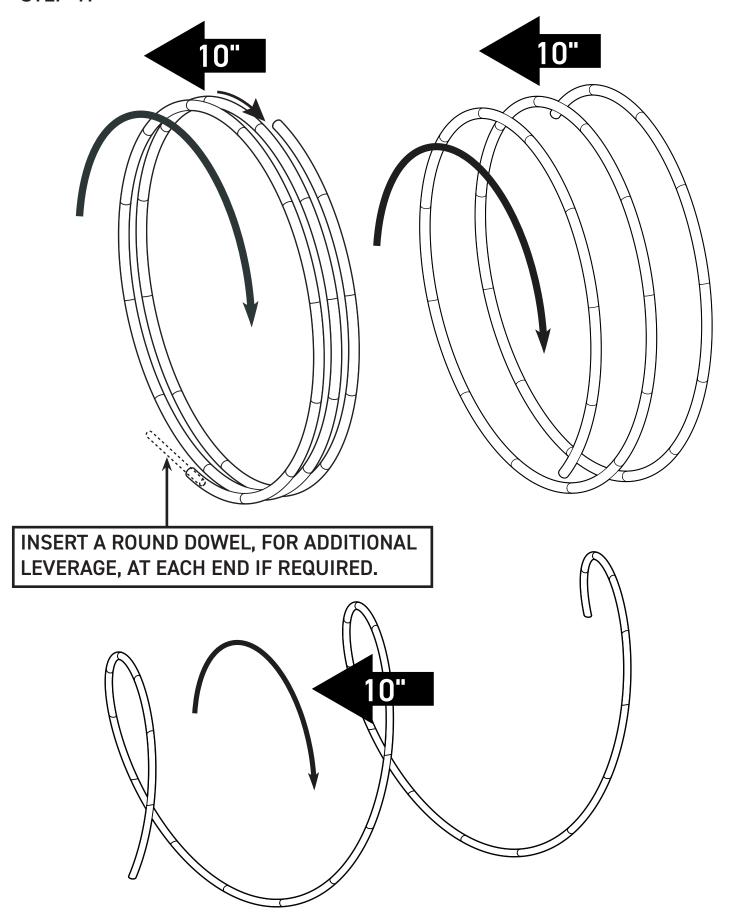


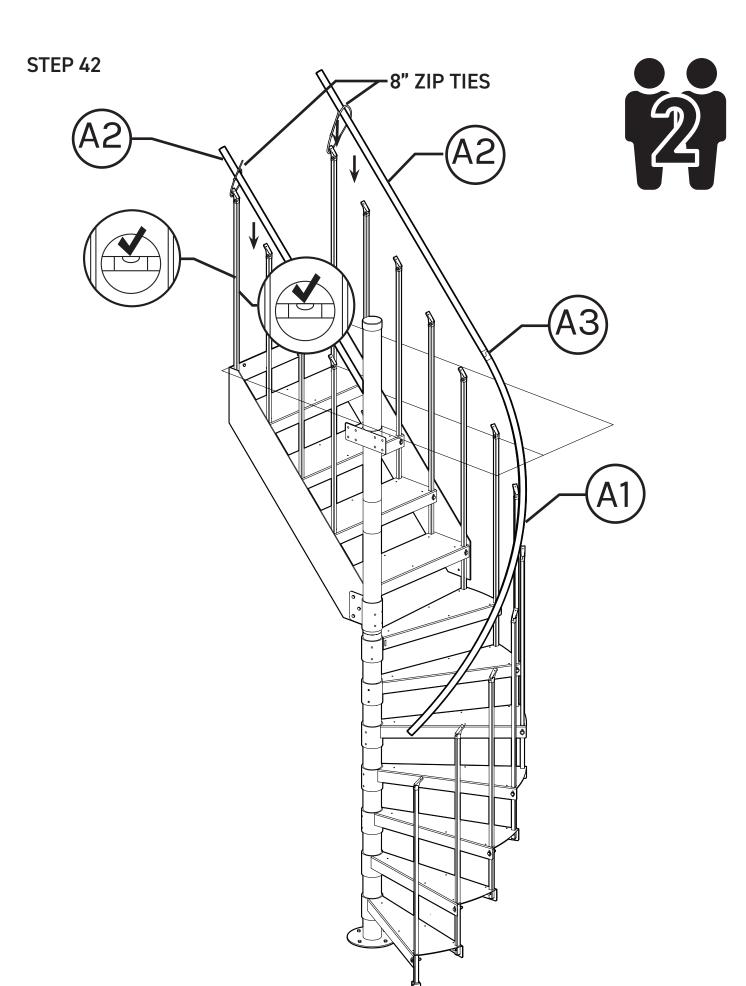
### **EXPANDING THE METAL RAILING**

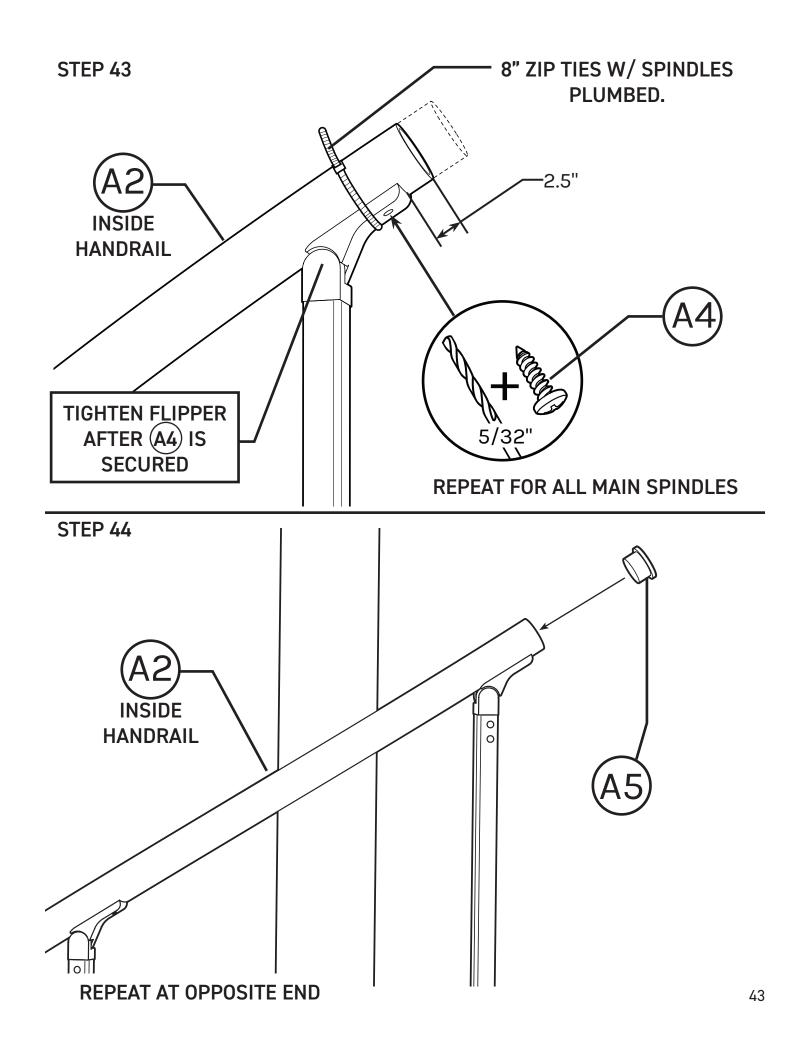
- 1. AT THE MARK PULL UP AND OUT.
- 2. ROTATE TO THE NEXT MARK AND REPEAT.
- 3. EXPAND COIL EVENLY, AVOID FLAT SPOTS.

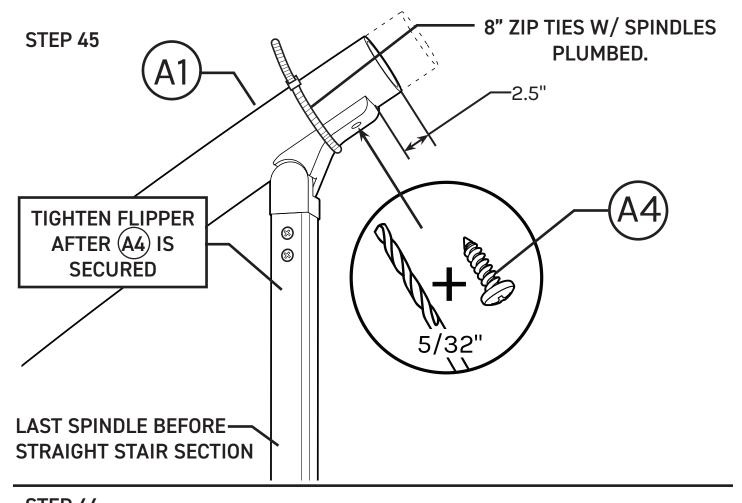


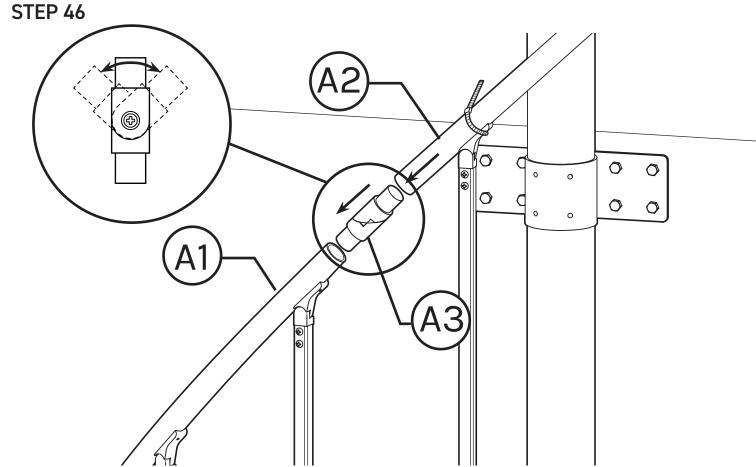
**STEP 41** 

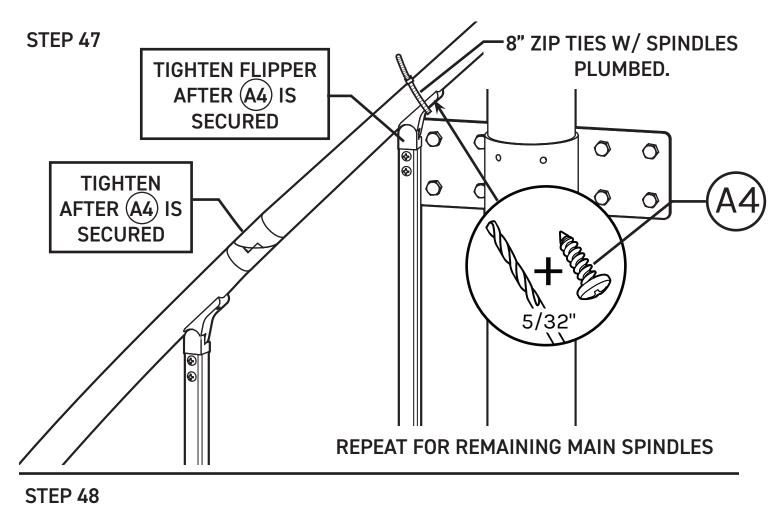


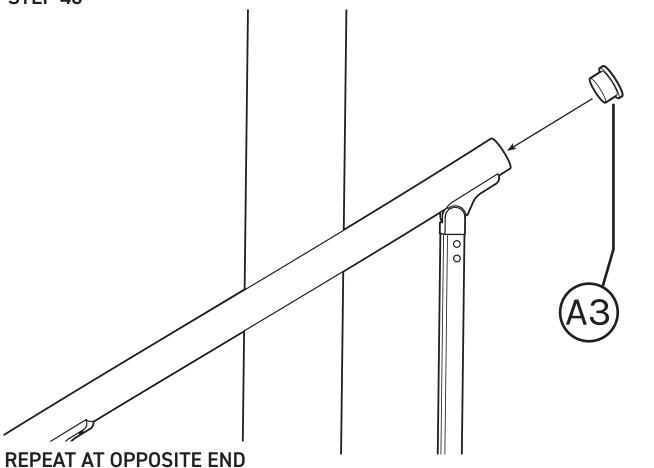


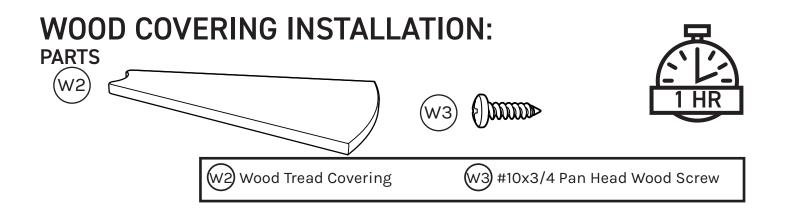




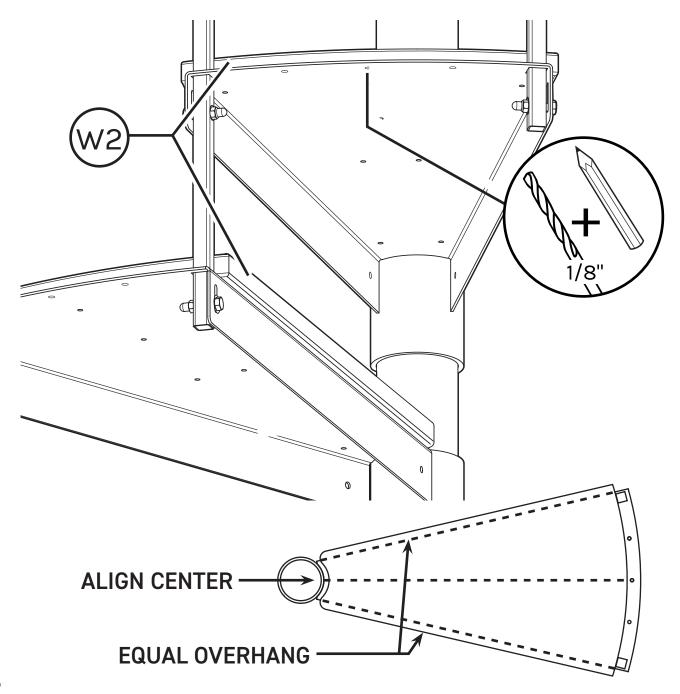




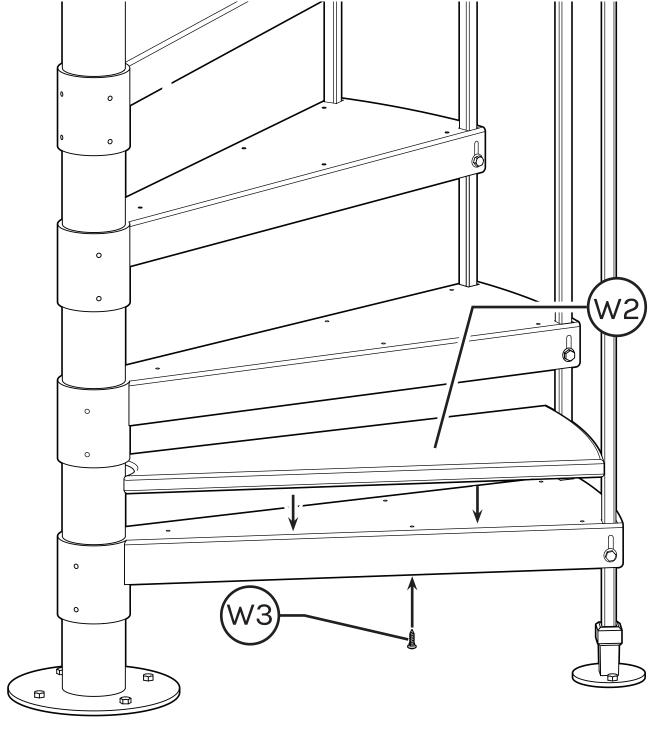




**STEP 49** 



NOTE: TO PREVENT WARPING AND CRACKING OF NATURAL WOOD COVERINGS THEY MUST BE FINISHED WITHING (30) DAYS OF RECEIPT WITH A MINIMUM OF (2) COMPLETE COATS OF A QUALITY POLYURETHANE. COVERINGS SHOULD BE FINISHED PRIOR TO INSTALLATION ON THE STAIR.

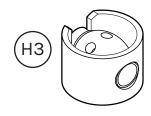


# WOOD HANDRAIL INSTALLATION:



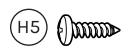


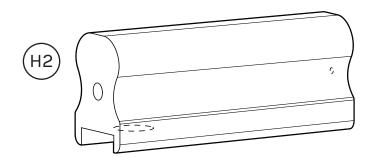




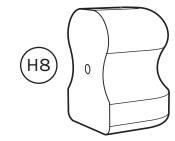


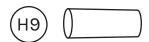






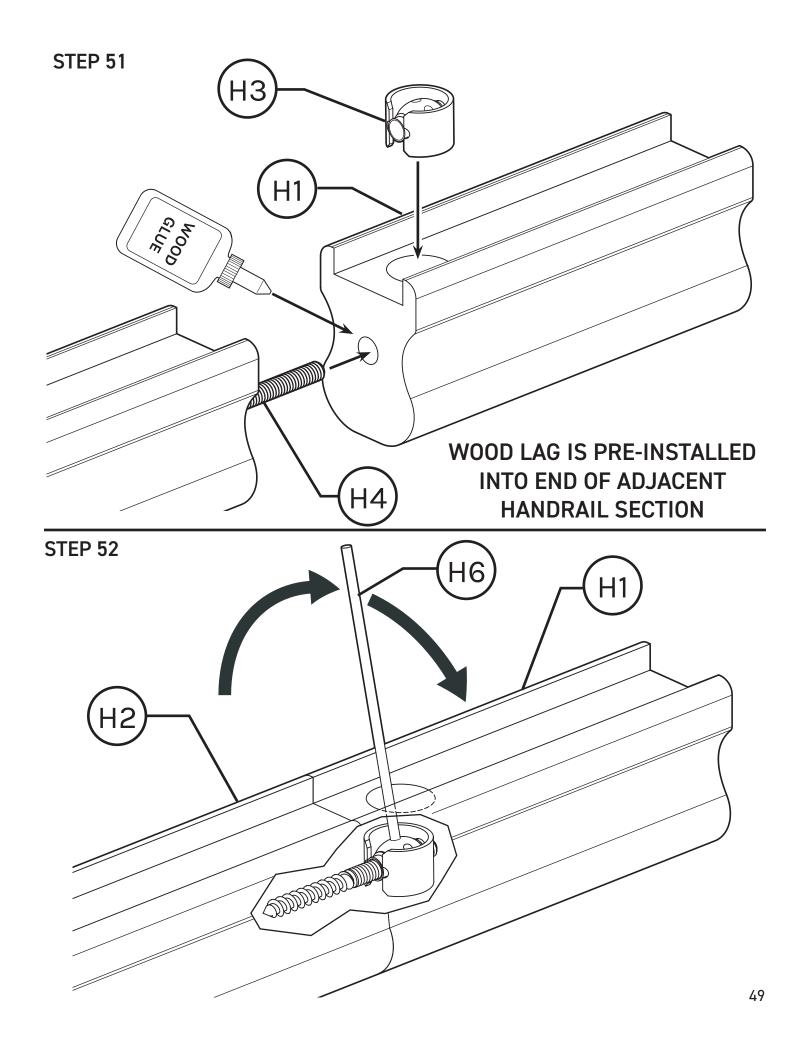


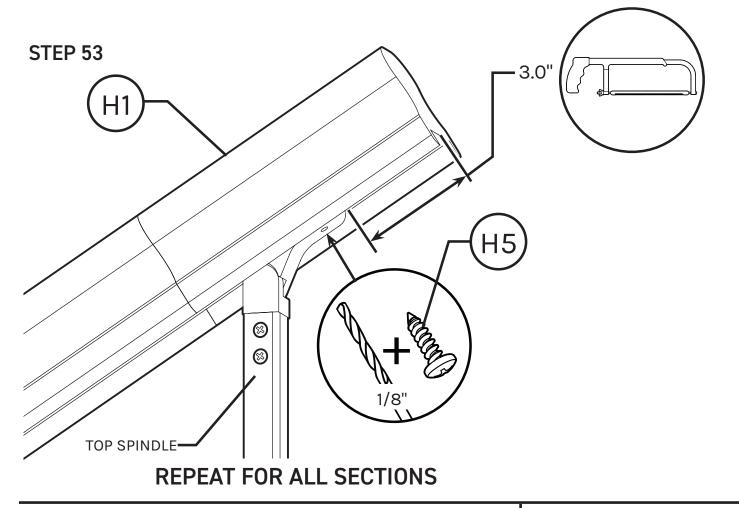


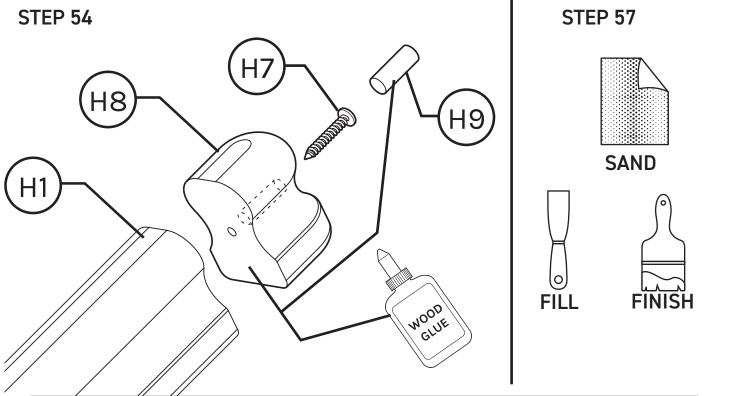


- (H1) Wood Handrail Section
- (H2) Wood Handrail Section
- (H3) Ball Nut
- H4) 1/4" x 20 Hanger Bolt (Pre-installed)
- (H5) #10 x 3/4" Pan Head Sheet Metal Screw
- H6 Ball Nut Wrench

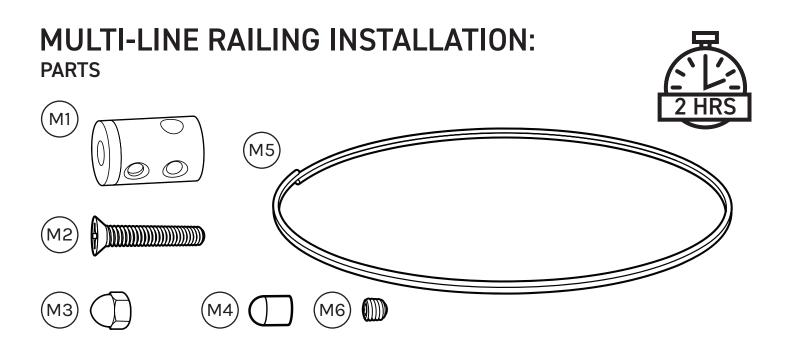
- H7) #10 x 1/14" Pan Head Sheet Metal Screw
- H8) Wood End Cap
- (H9) Wood Plug







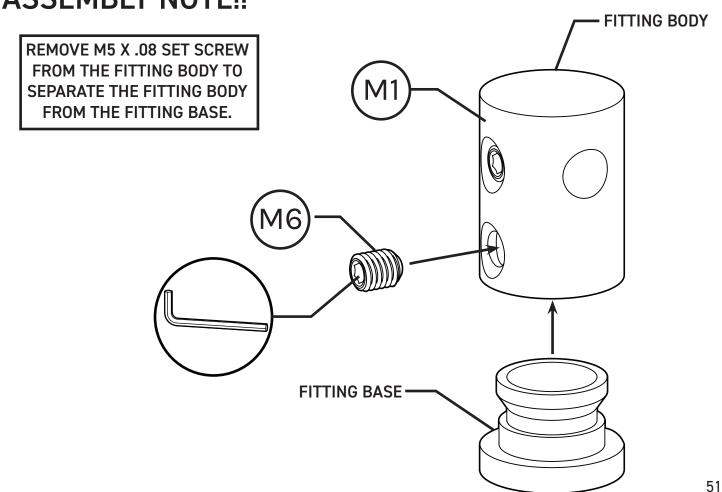
NOTE: FOR WOOD SCROLL ENDS THE 'H3' BALL NUT WILL BE PRE-INSTALLED IN THE SCROLL END, CUSTOMER TO DRILL A 3/16" PILOT HOLE AND INSTALL 'H4' HANGER BOLT INTO END OF HANDRAIL AFTER CUTTING TO LENGTH.

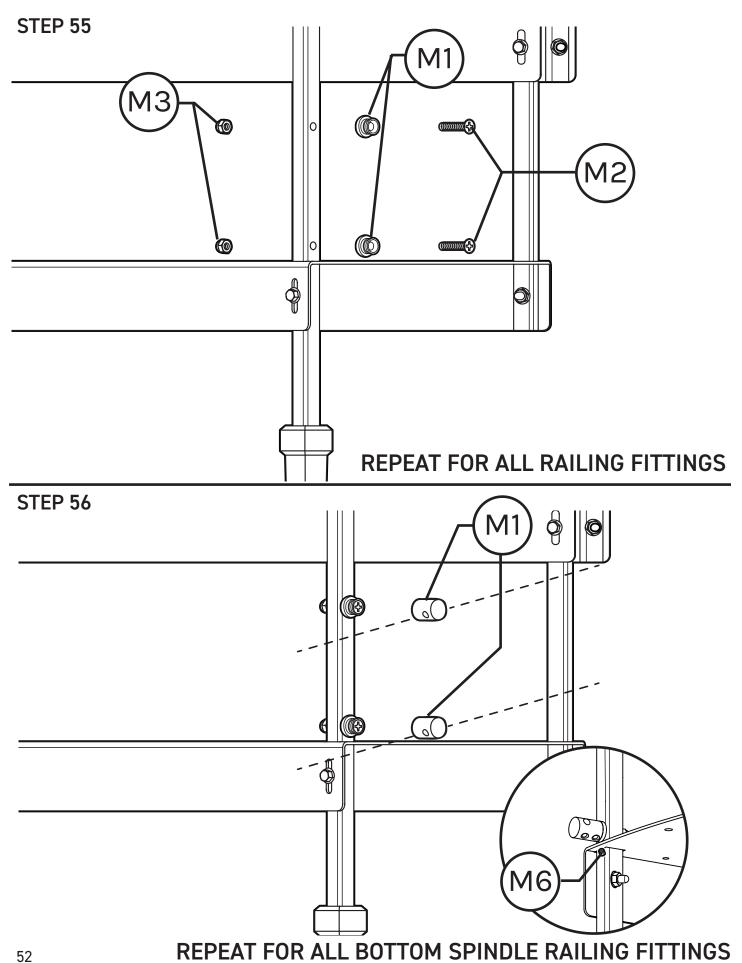


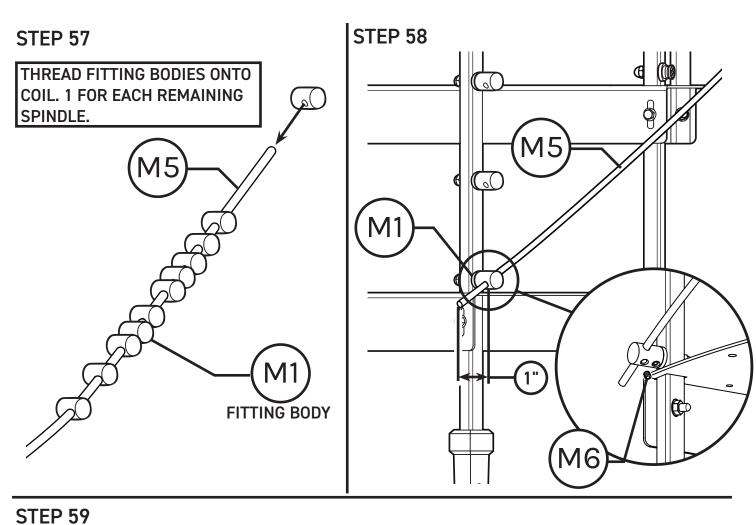
- (MI) Railing Fitting
- (M2) 1/4" 20 x 1-1/2" Flat Head Machine Screw
- M3)1/4" 20 x Acorn Nut

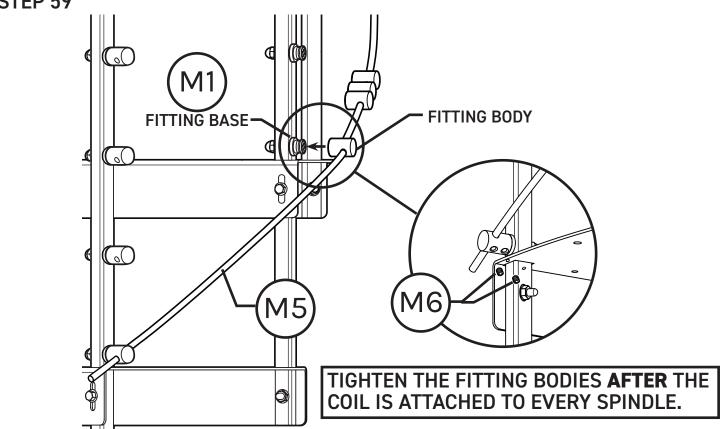
- (M4)1/2" Long Black Rubber Cap
- M5)1/4" Dia. Solid Stainless Steel Multi-Line Coil
- M5 x .08 Set Screw (Pre-Installed)

# **ASSEMBLY NOTE!!**

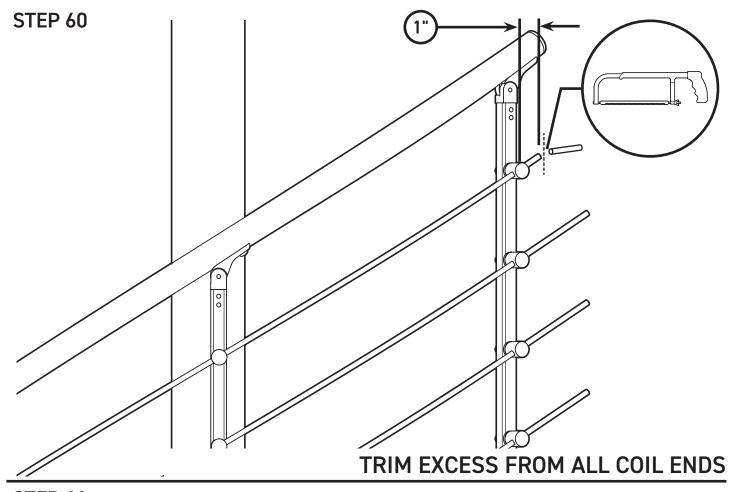




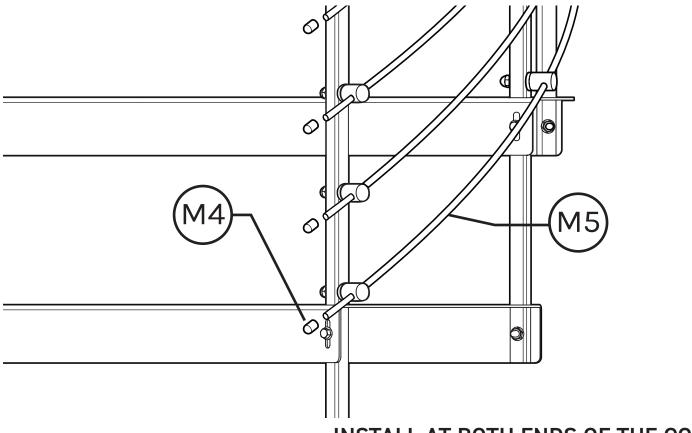




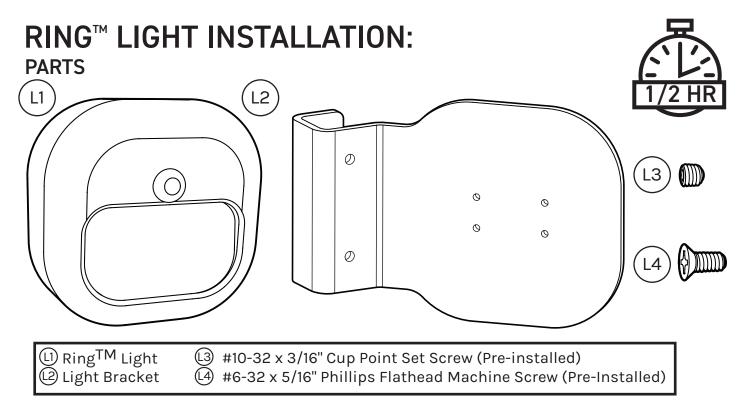
**REPEAT STEPS 57-59 FOR ALL REMAINING SPINDLES** 

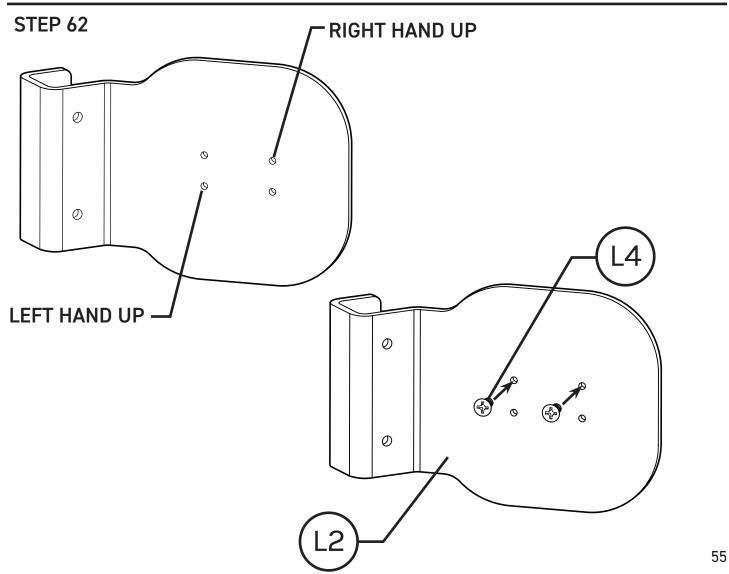


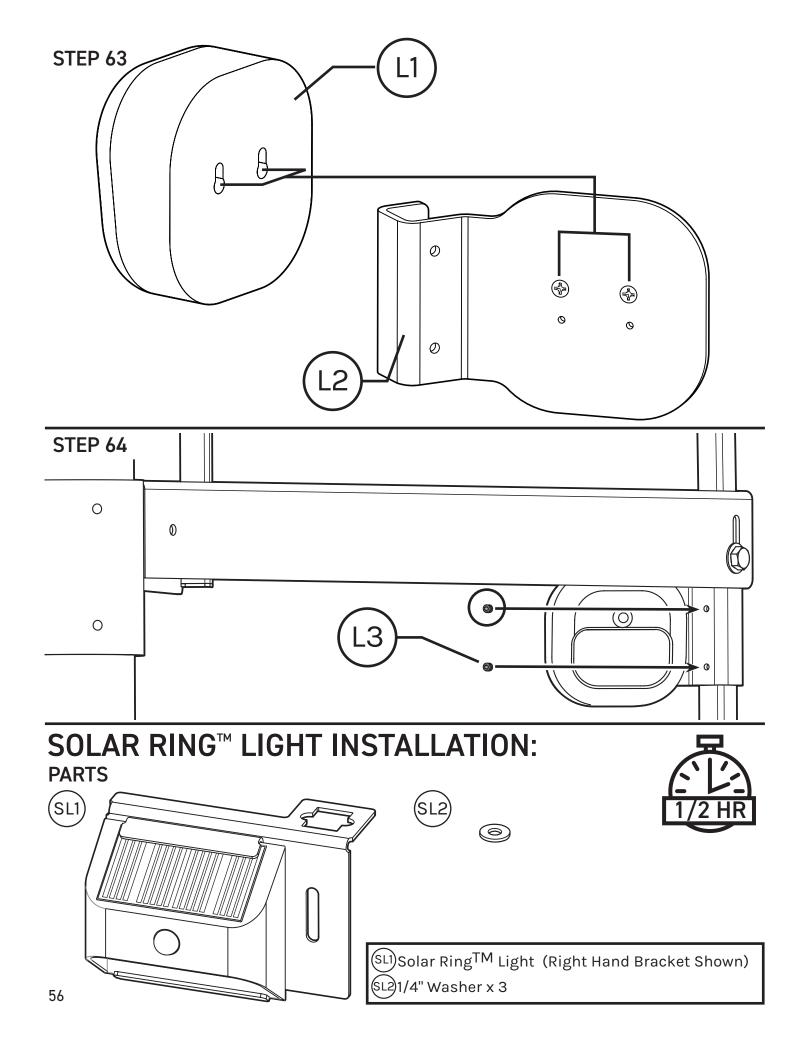
STEP 61

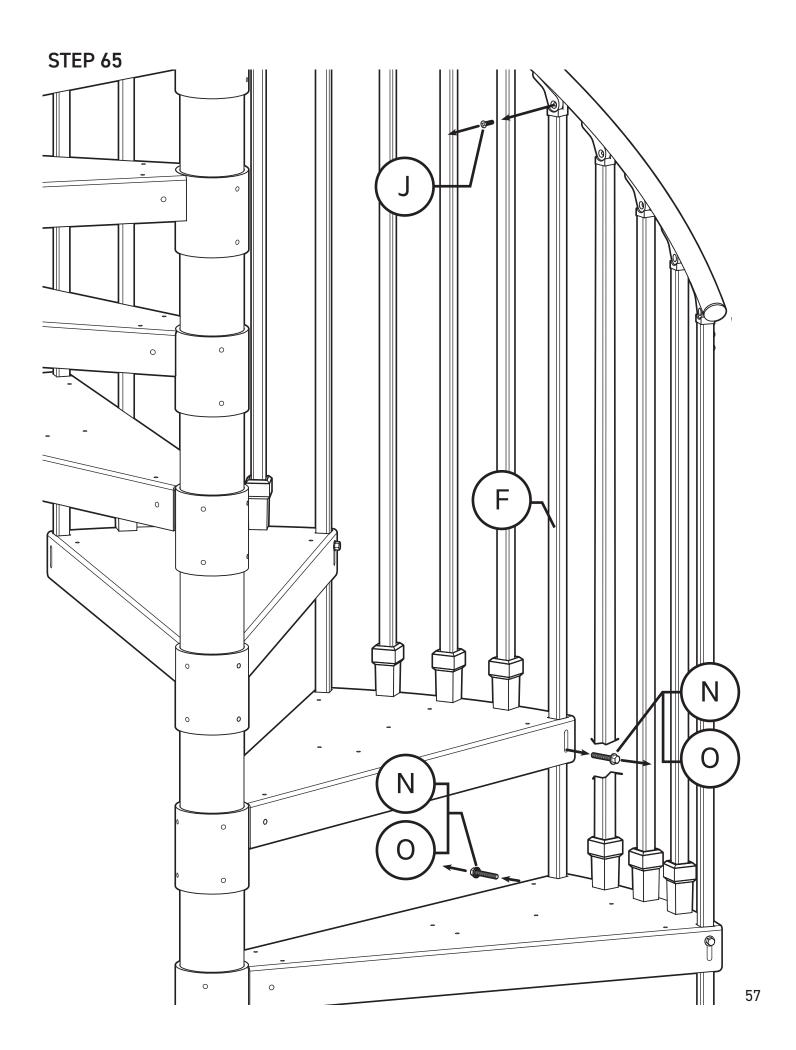


**INSTALL AT BOTH ENDS OF THE COIL** 









# STEP 66

VISIT https://www.ring.com/app TO DOWNLOAD THE RING® APP

### LIMITED LIFETIME WARRANTY:

We have a limited lifetime warranty. This limited lifetime warranty covers the original purchaser or recipient only. This limited lifetime warranty covers any defects in the material or workmanship of our products under normal use. TIS will repair, at no charge, products or part of the product that prove materially defective because of improper material or workmanship under normal use and maintenance. Normal wear and tear in not warrantied.

**Our warranty is simple:** If we screwed up we will fix it! Any manufacturing defects are covered for life. We expect no less from any product we purchase. Thank you for your support and interest in our products. Allen Cohen President



Email: info@theironshop.com

### MAIN PLANT & SHOWROOM

P.O. Box 547 400 Reed Road Broomall, PA 19008

Tel: (866) 446-2975 Fax: (610) 544-7297

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