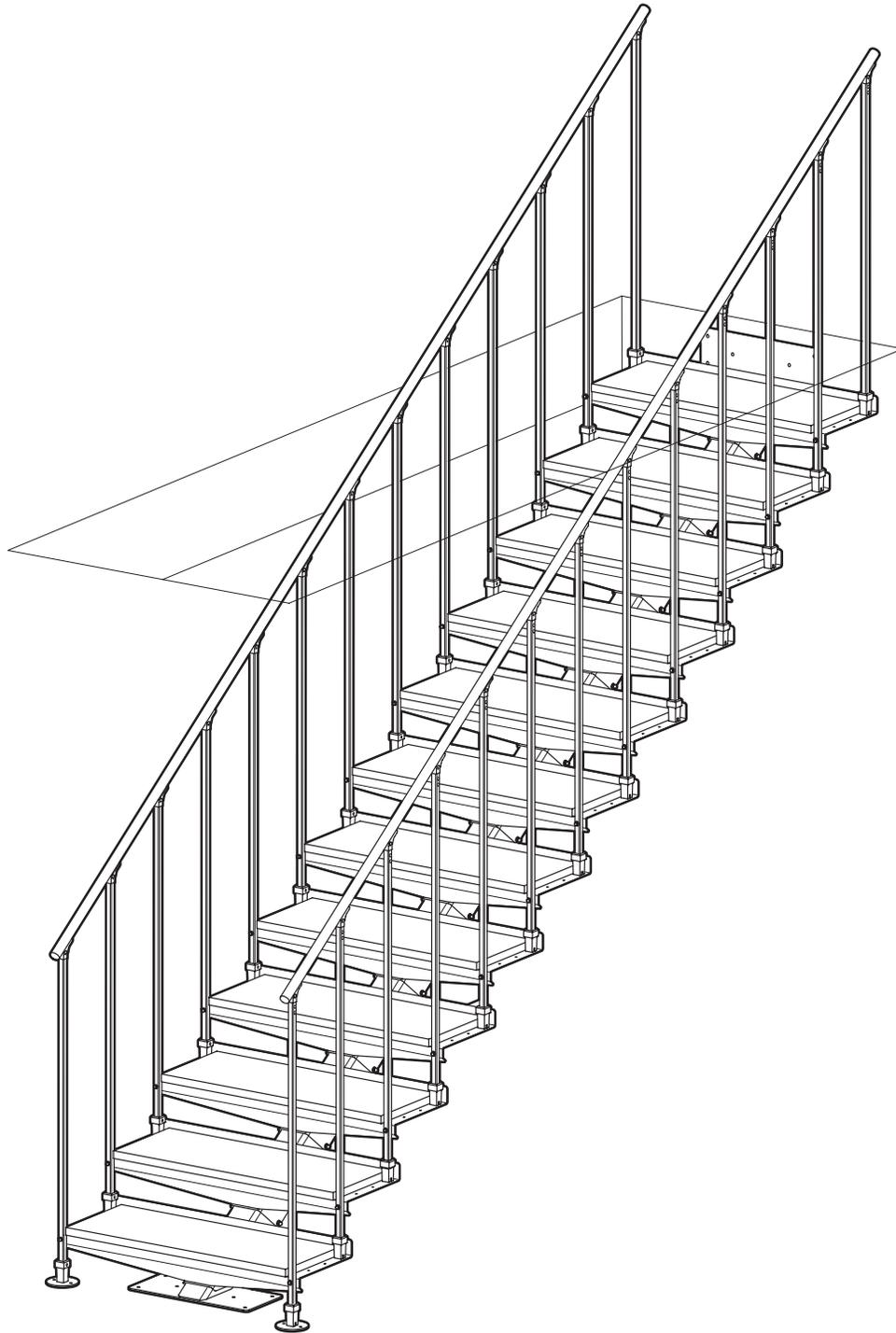


# FLOATING STAIR KIT INSTALLATION MANUAL

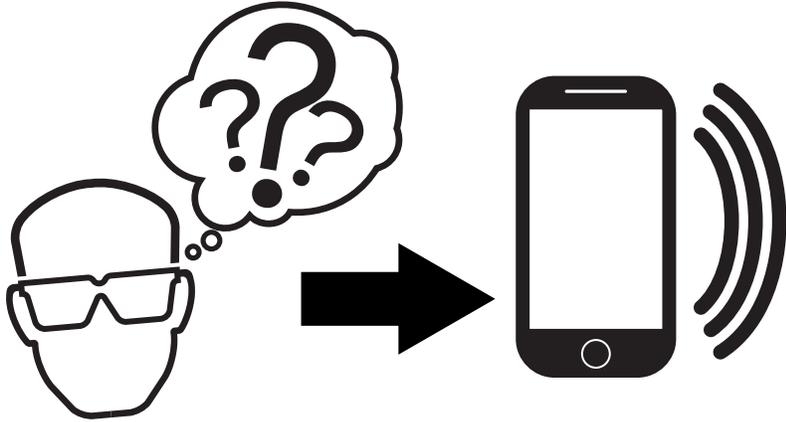
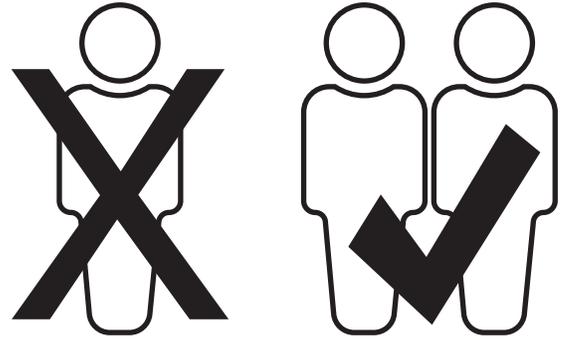
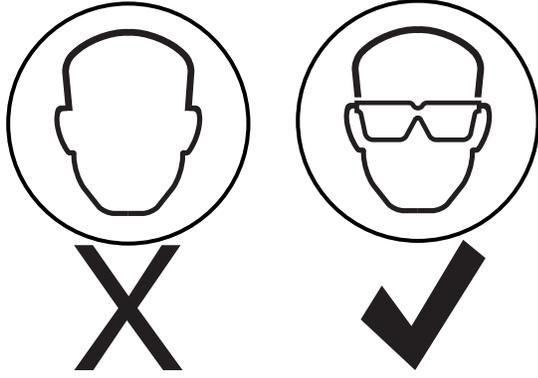
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2023 EDITION



\*13 RISER STAIRCASE SHOWN

**The IRON Shop**  
The Leading Manufacturer of Spiral Stair Kits®

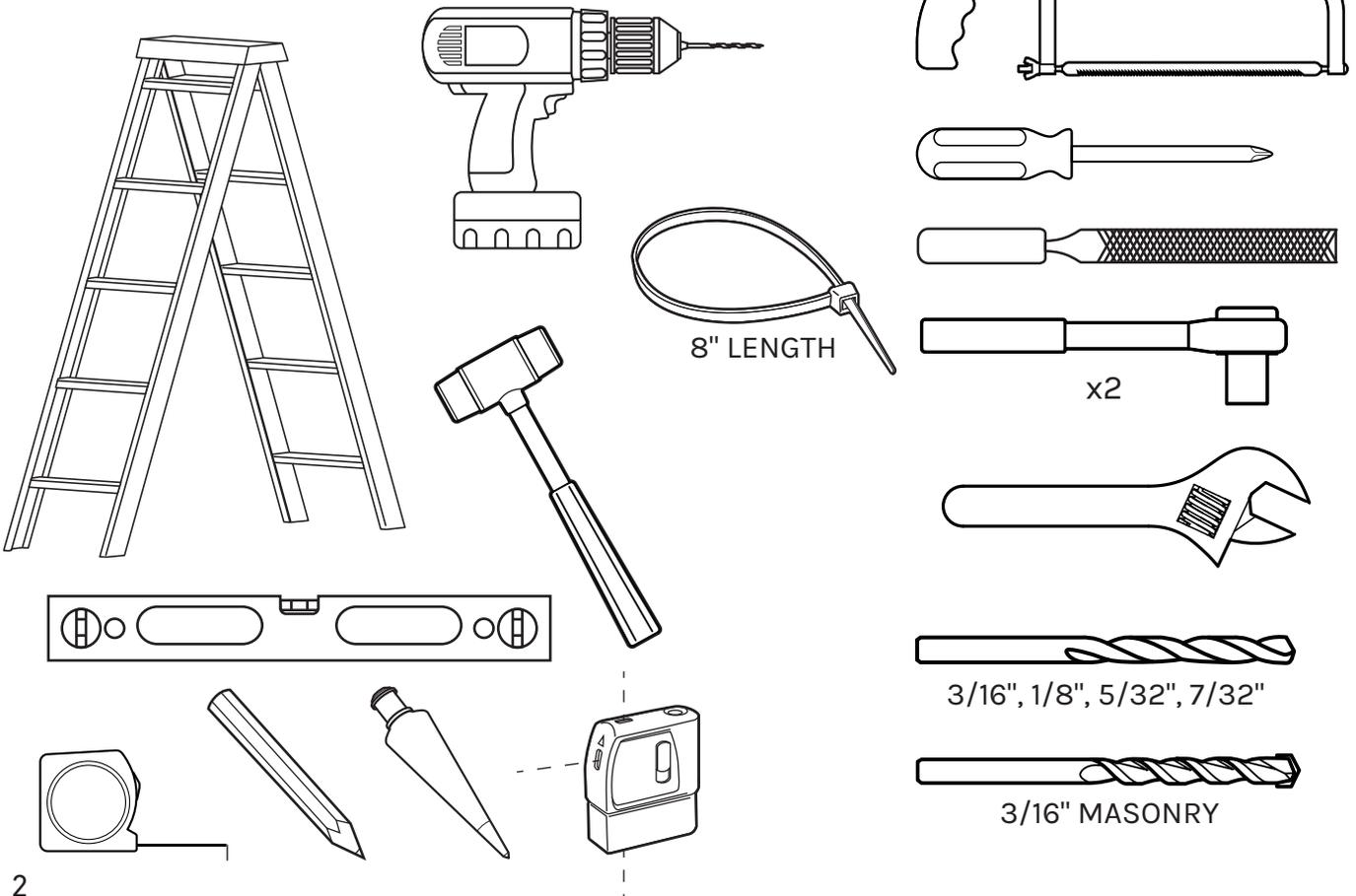


(800)-523-7427

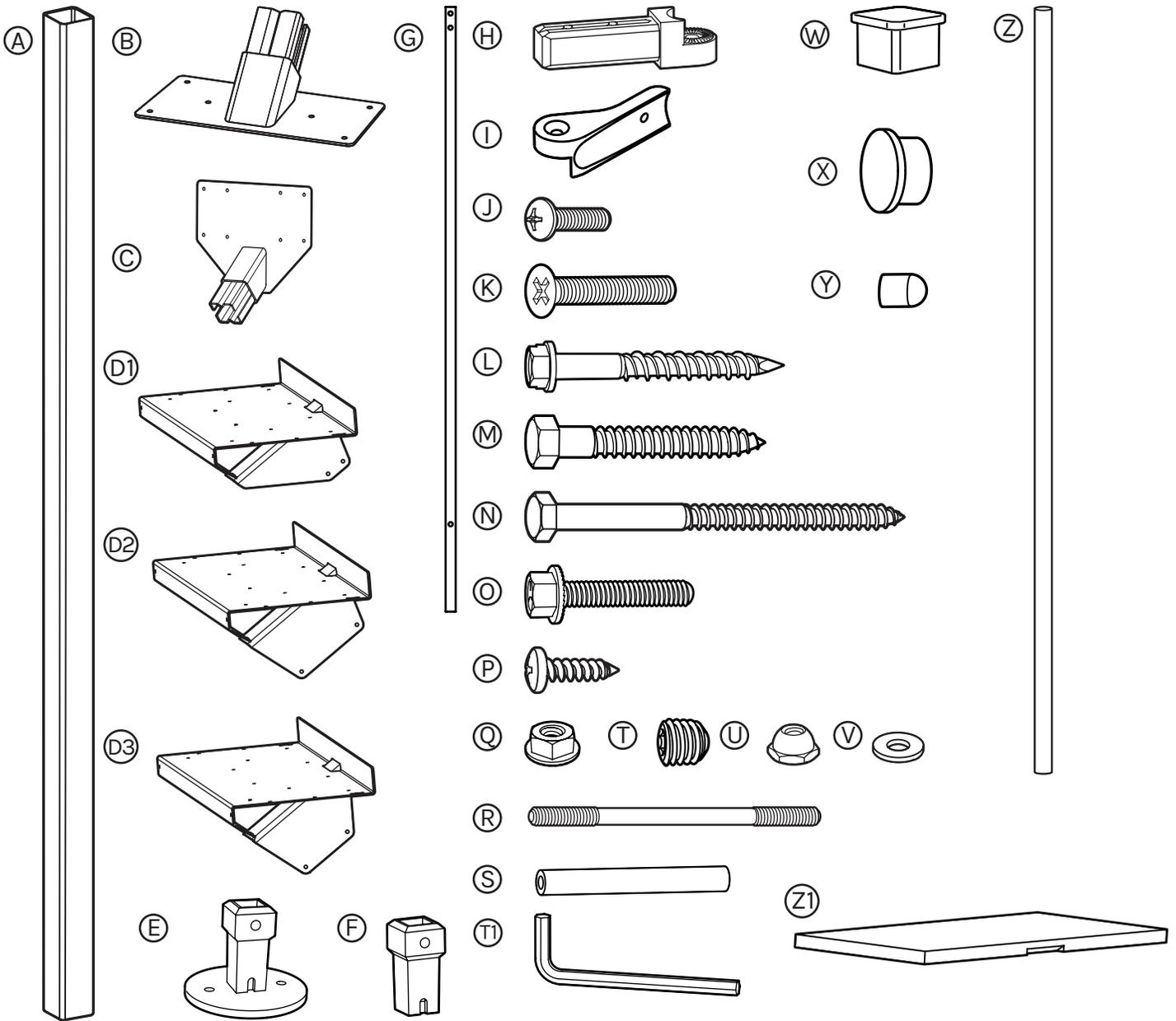


[www.TheIronShop.com](http://www.TheIronShop.com)

**TOOLS NEEDED FOR INSTALLATION**



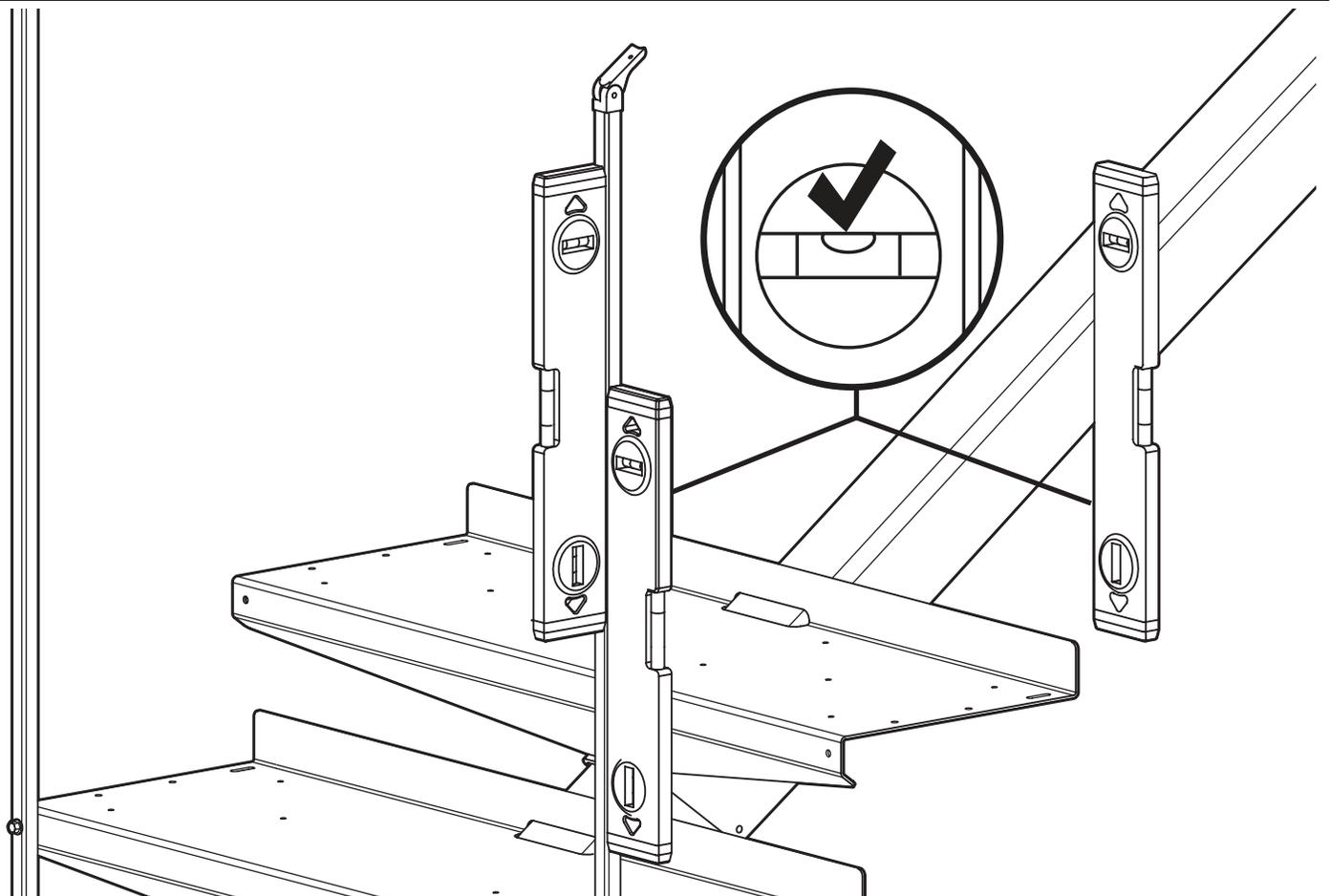
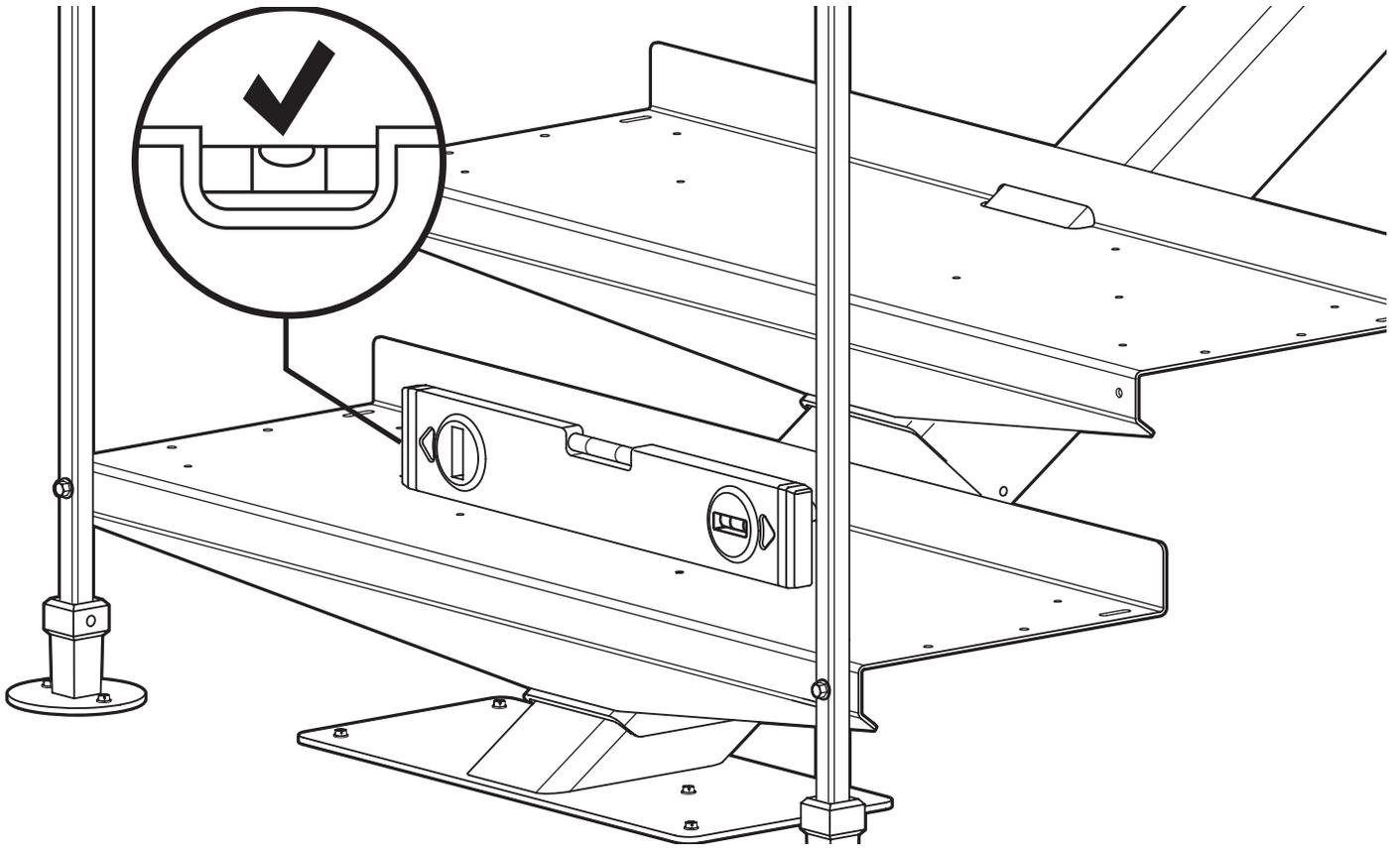
# INCLUDED



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

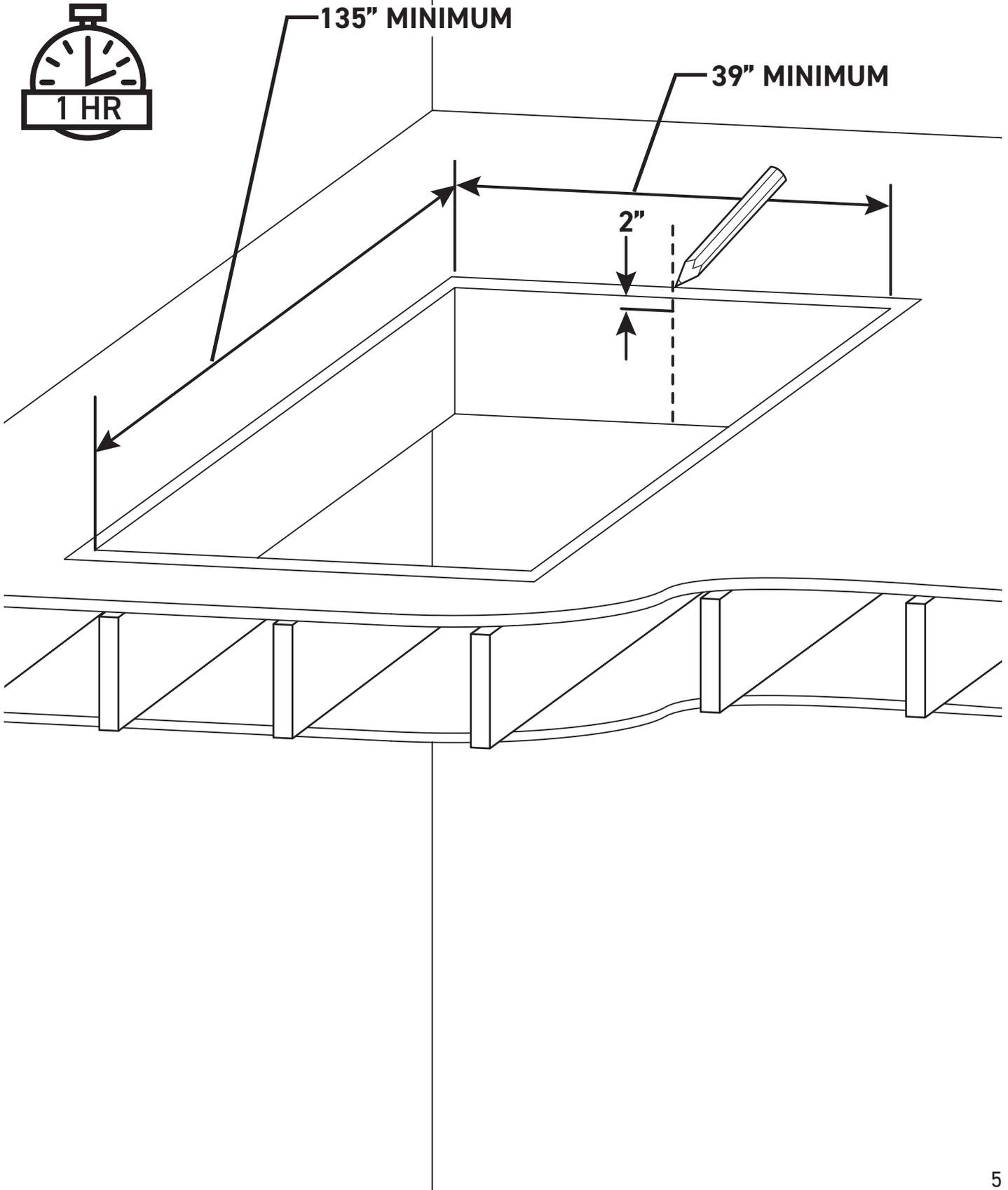
(A) Center Support	(J) #10-24 x 1/2" Round Head Thread Forming Screw	(V) 1/4" Washer
(B) Bottom Mounting Plate	(K) #10-24 x 3/4" Flat Head Machine Screw	(W) Spindle Post End Cap
(C) Top Mounting Plate	(L) 1/4" x 2-1/4" Hex-Washer Head Masonry Screw	(X) Rail End Cap
(D1) Top Tread Pan	(M) 5/16" x 2" Heavy Duty Lag Screw	(Y) Rubber Cap for 1/4" "O" Bolts
(D2) Common Tread Pan	(N) 1/4" x 4" Heavy Duty Lag Screw	(Z) Handrail
(D3) Top Tread Pan	(O) 1/4" - 20 x 1-1/2" Hex Serrated Flange Bolt	(Z1) Wood Tread
(E) IRS-4 Tube Bottom Cup & Starter Post Base Plate	(P) #10 x 3/4" Pan Head Sheet Metal Screw	(TI) Hex Key
(F) IRS-4 Tube Cup	(Q) 1/4" - 20 Hex Serrated Flange Nut	
(G) Main Spindle	(R) 1/4" Threaded Rod	
(H) IRS-2 Spindle Top Fitting	(S) Steel Spacer	
(I) IRS-1 Flipper Head	(T) 5/16" x 18 5/16" Set Screw	
	(U) 18-8 Cap Nut	

**!! ASSEMBLY NOTE !!**



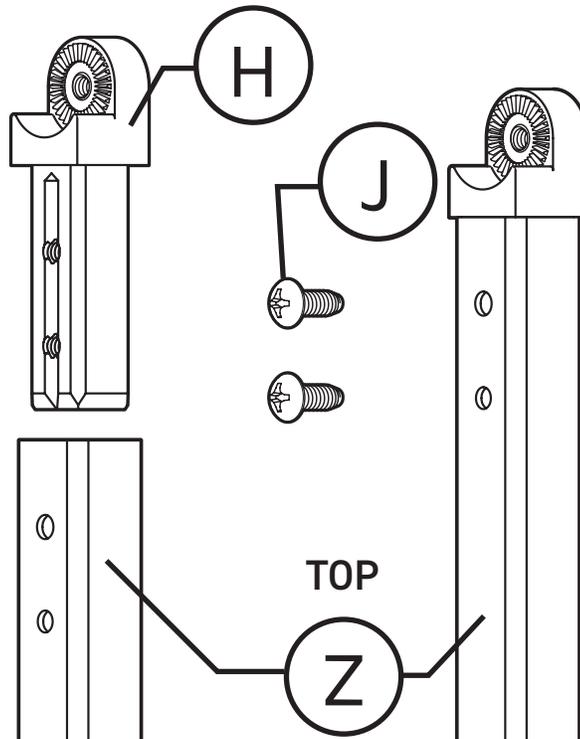
# SPIRAL STAIR KIT INSTALLATION

STEP 01



## STEP 02

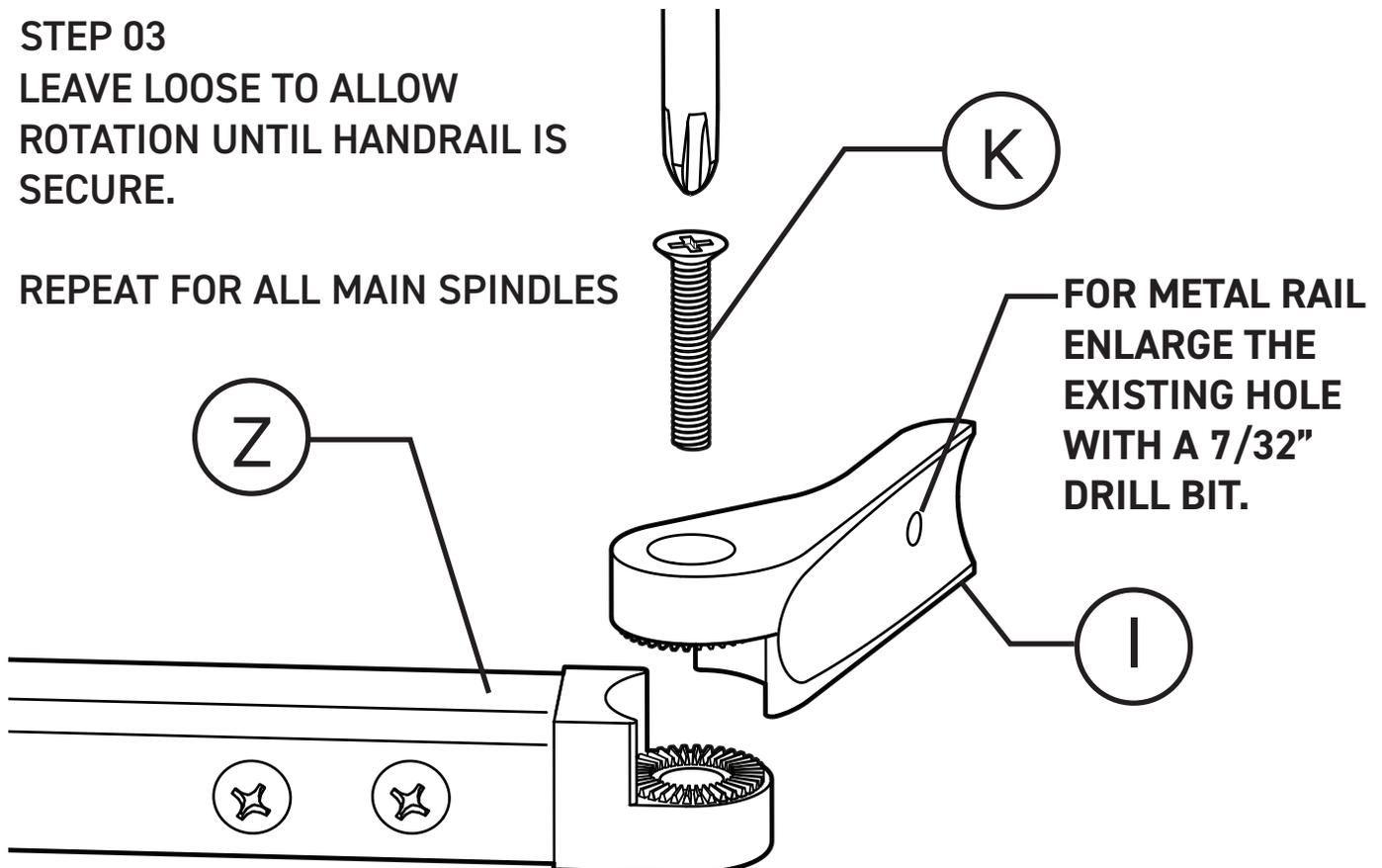
**ASSEMBLY NOTE: SCREW HEADS SHOULD FACE THE OUTSIDE OF THE STAIRS.**



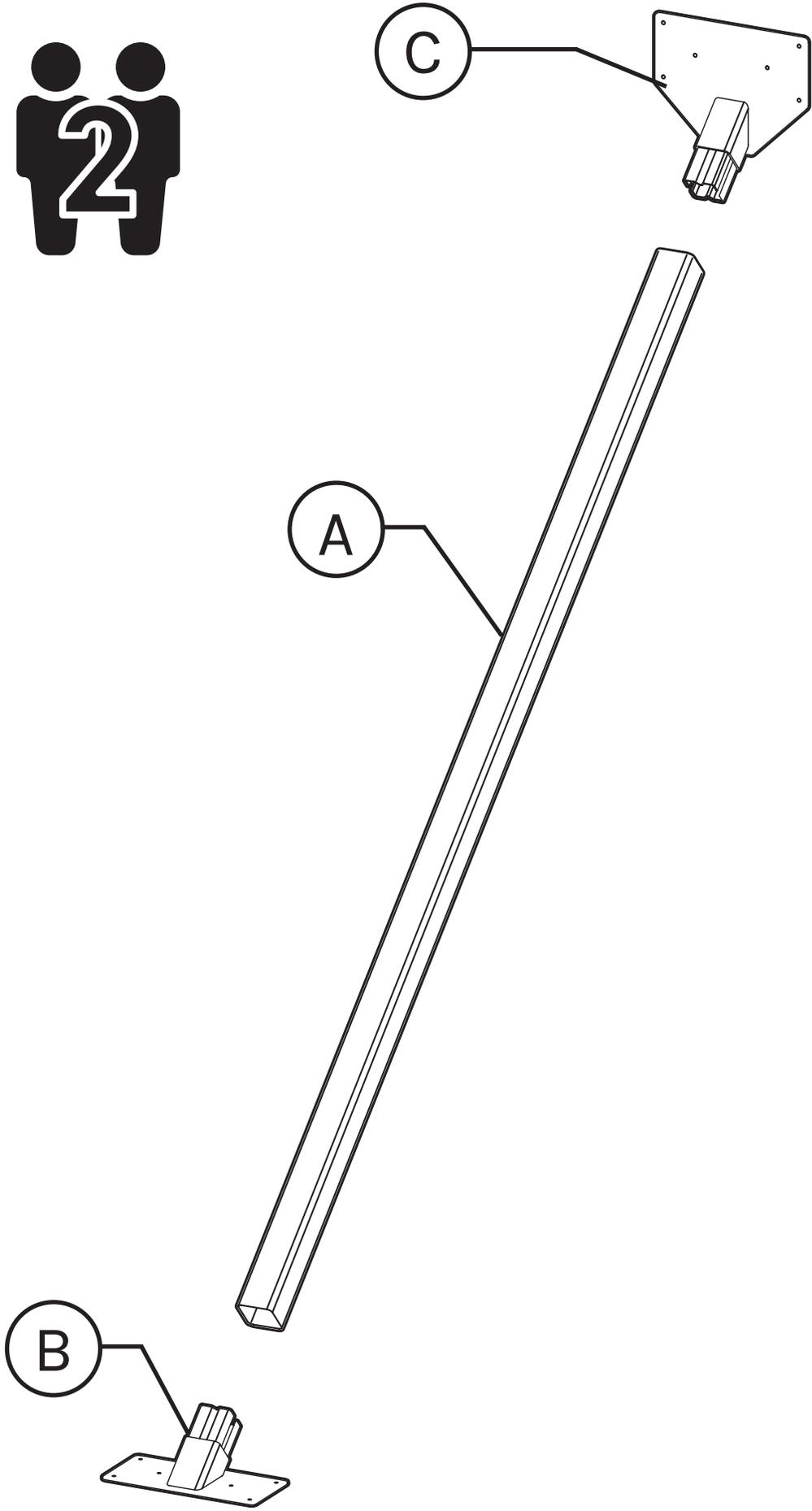
**REPEAT FOR ALL MAIN SPINDLES**

**STEP 03**  
**LEAVE LOOSE TO ALLOW**  
**ROTATION UNTIL HANDRAIL IS**  
**SECURE.**

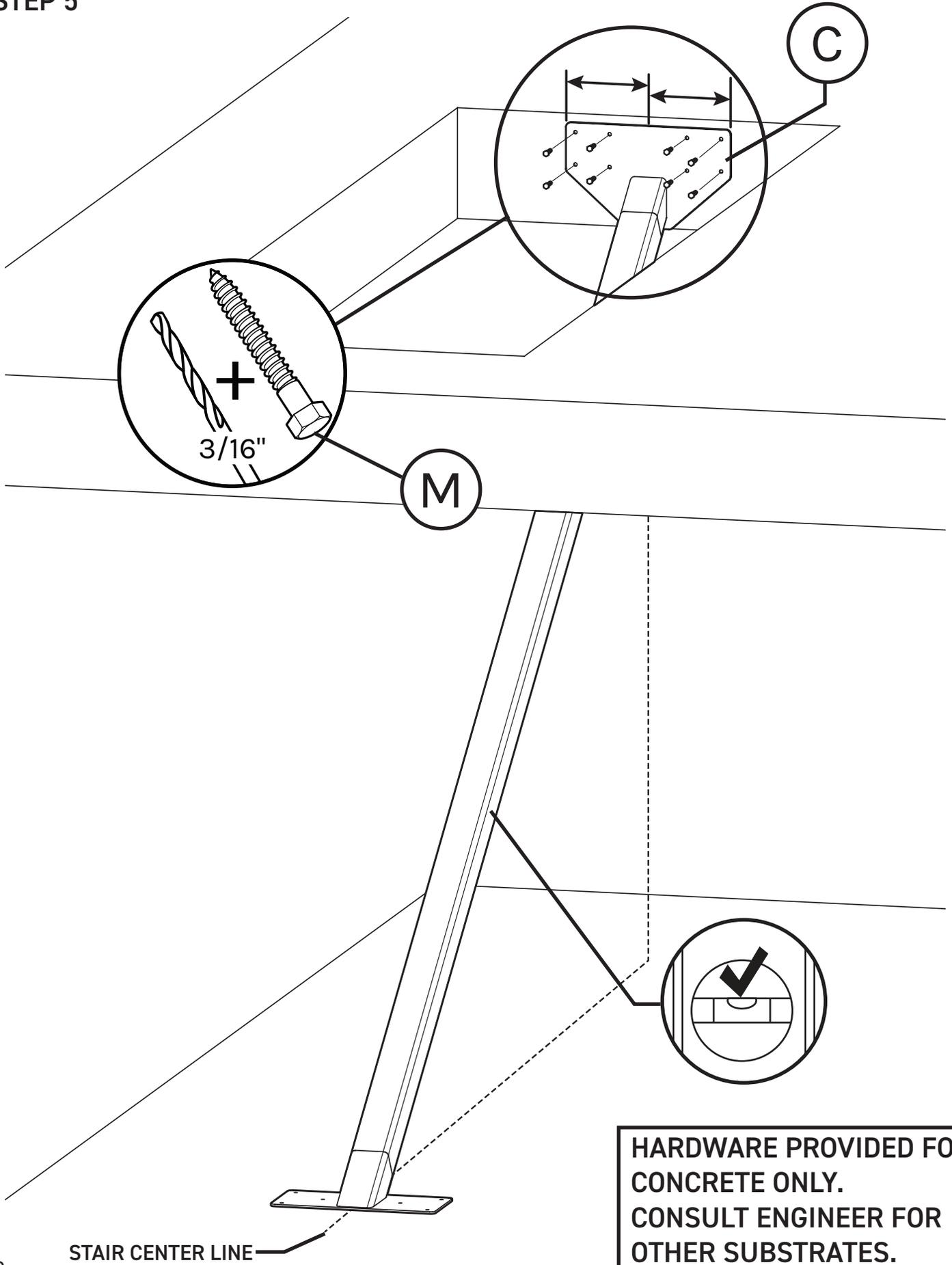
**REPEAT FOR ALL MAIN SPINDLES**



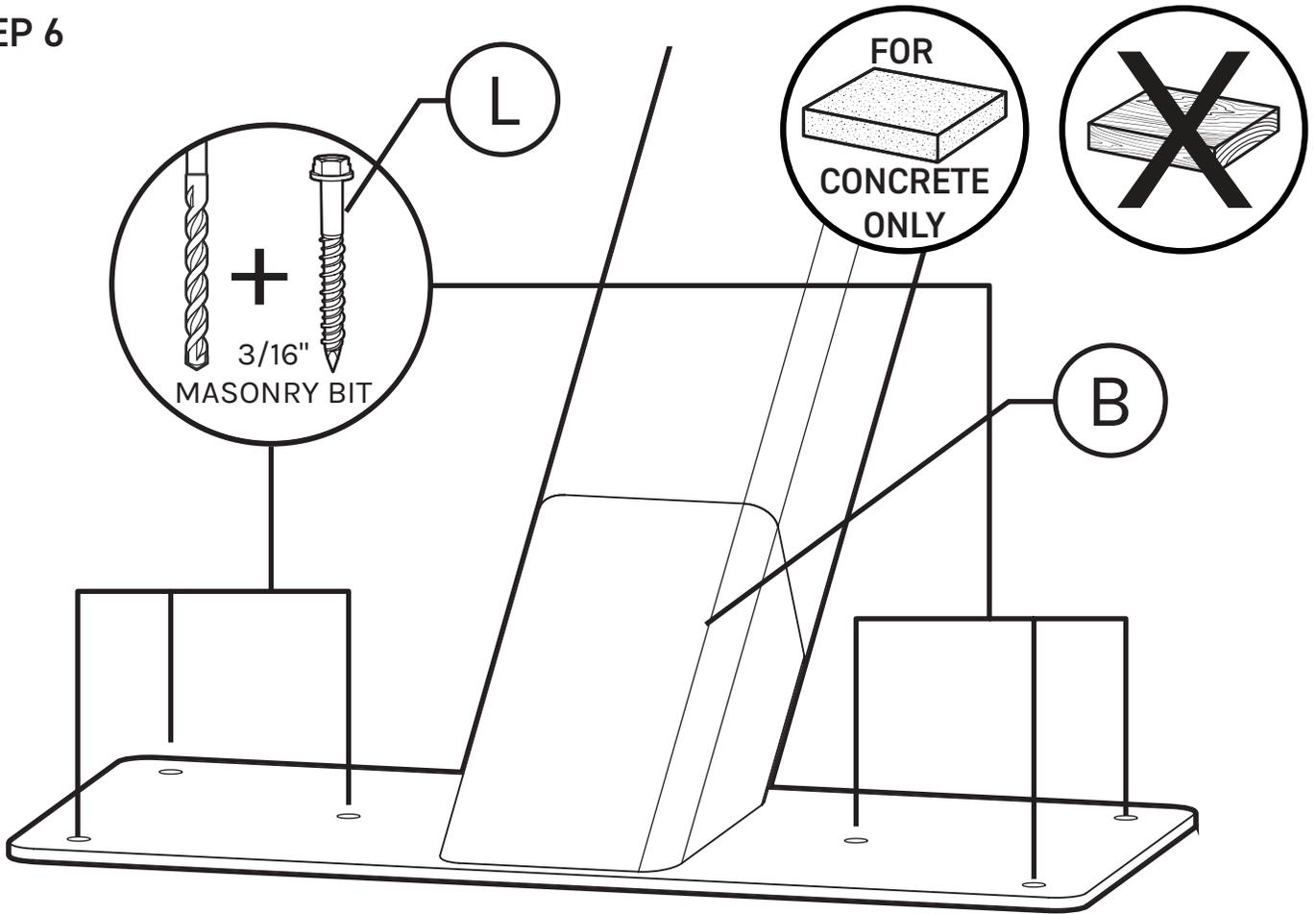
STEP 04



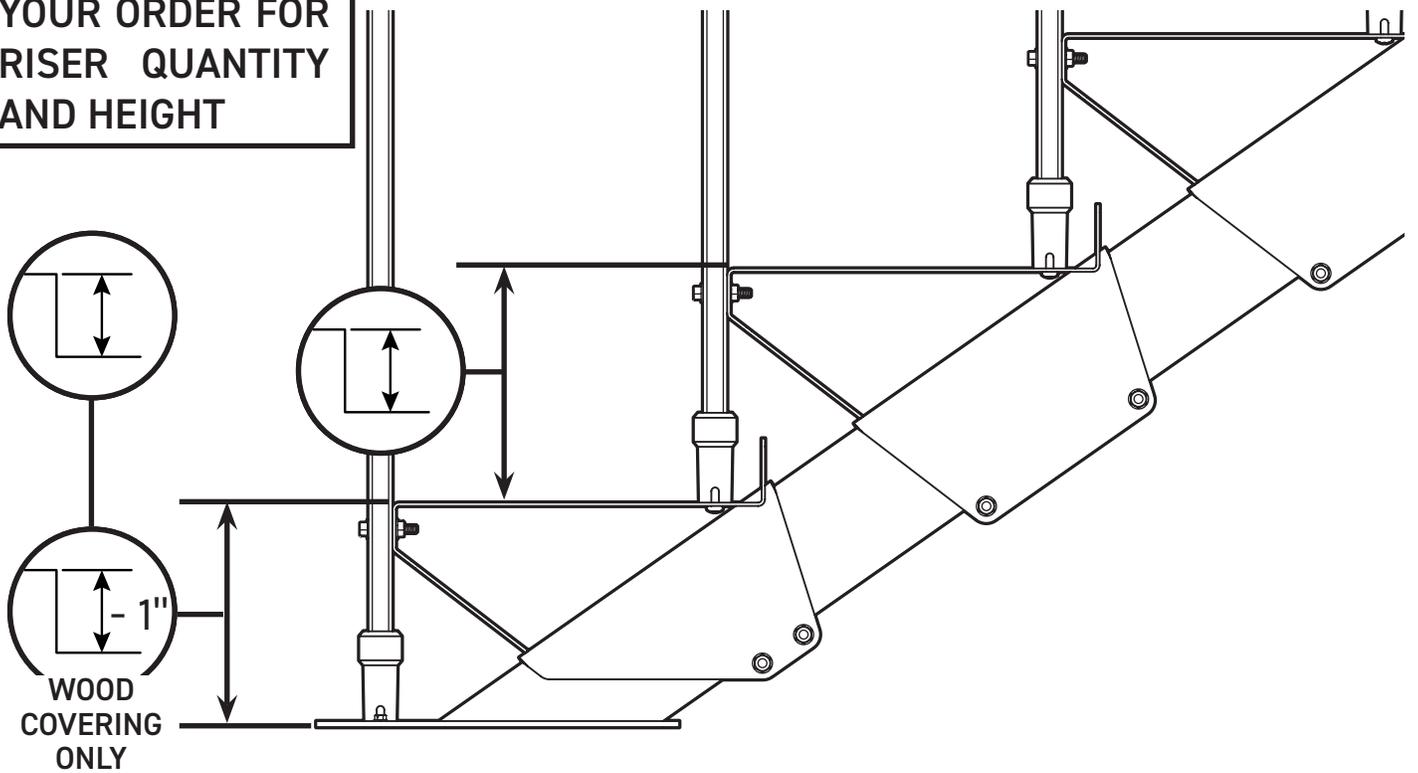
STEP 5



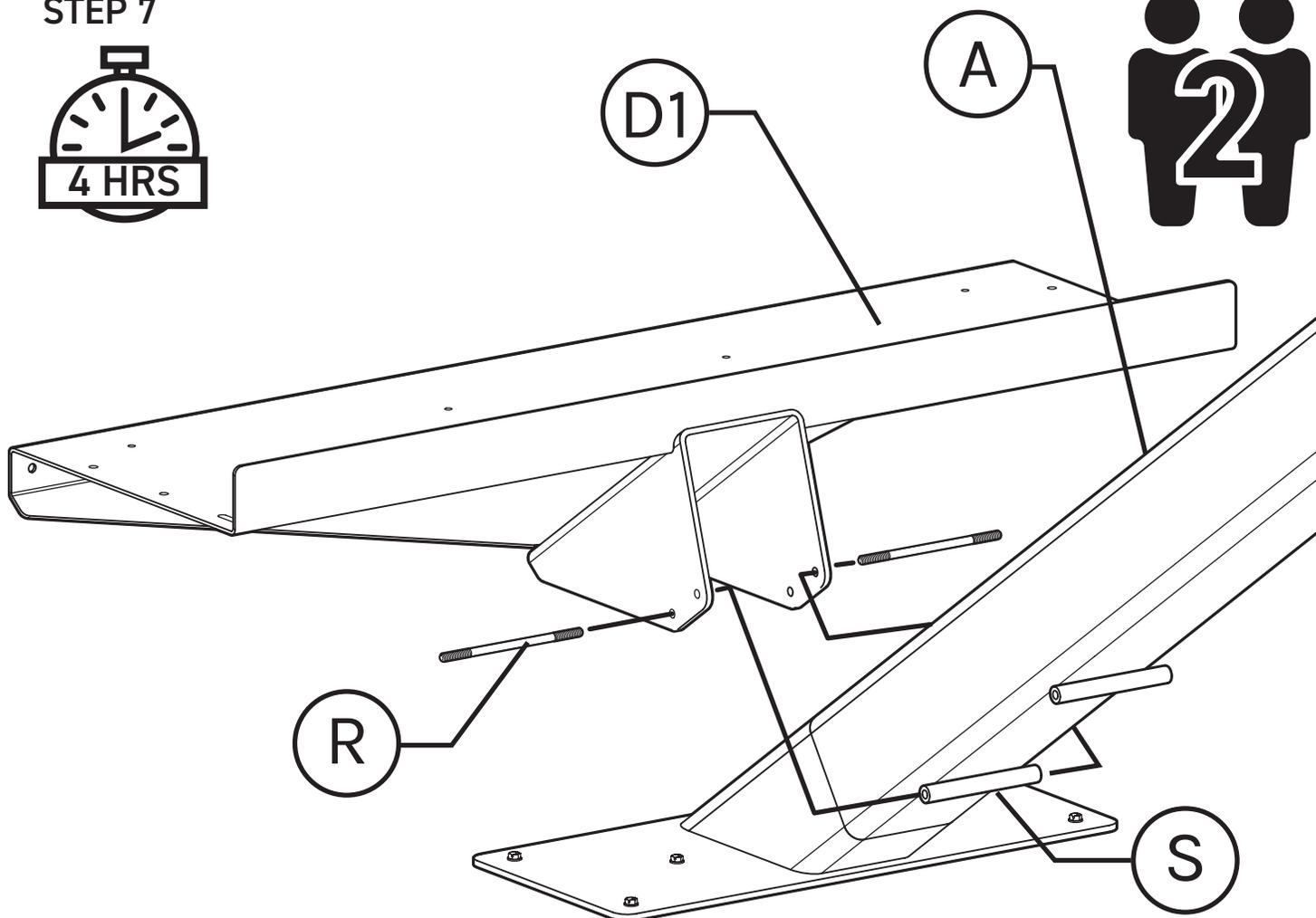
STEP 6



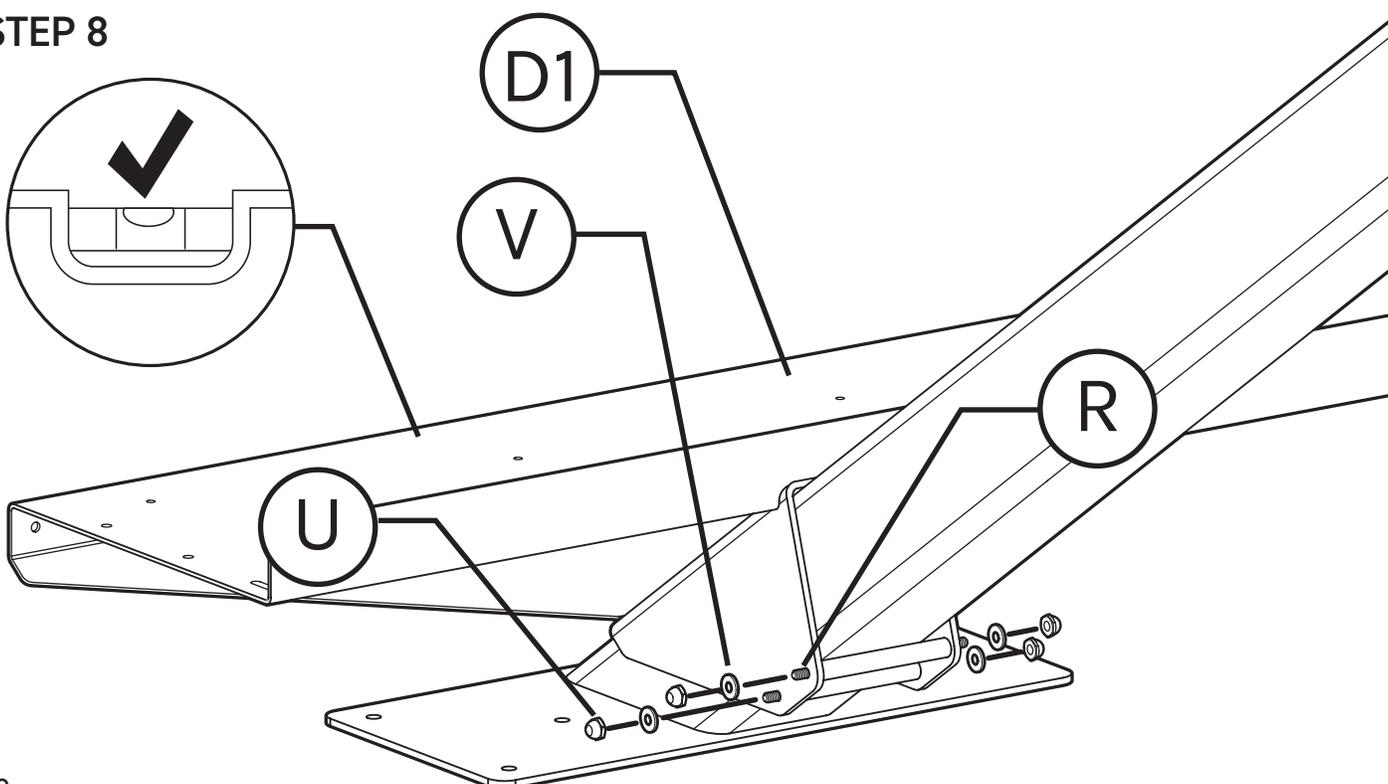
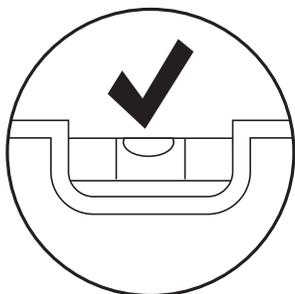
PLEASE REFER TO YOUR ORDER FOR RISER QUANTITY AND HEIGHT



STEP 7

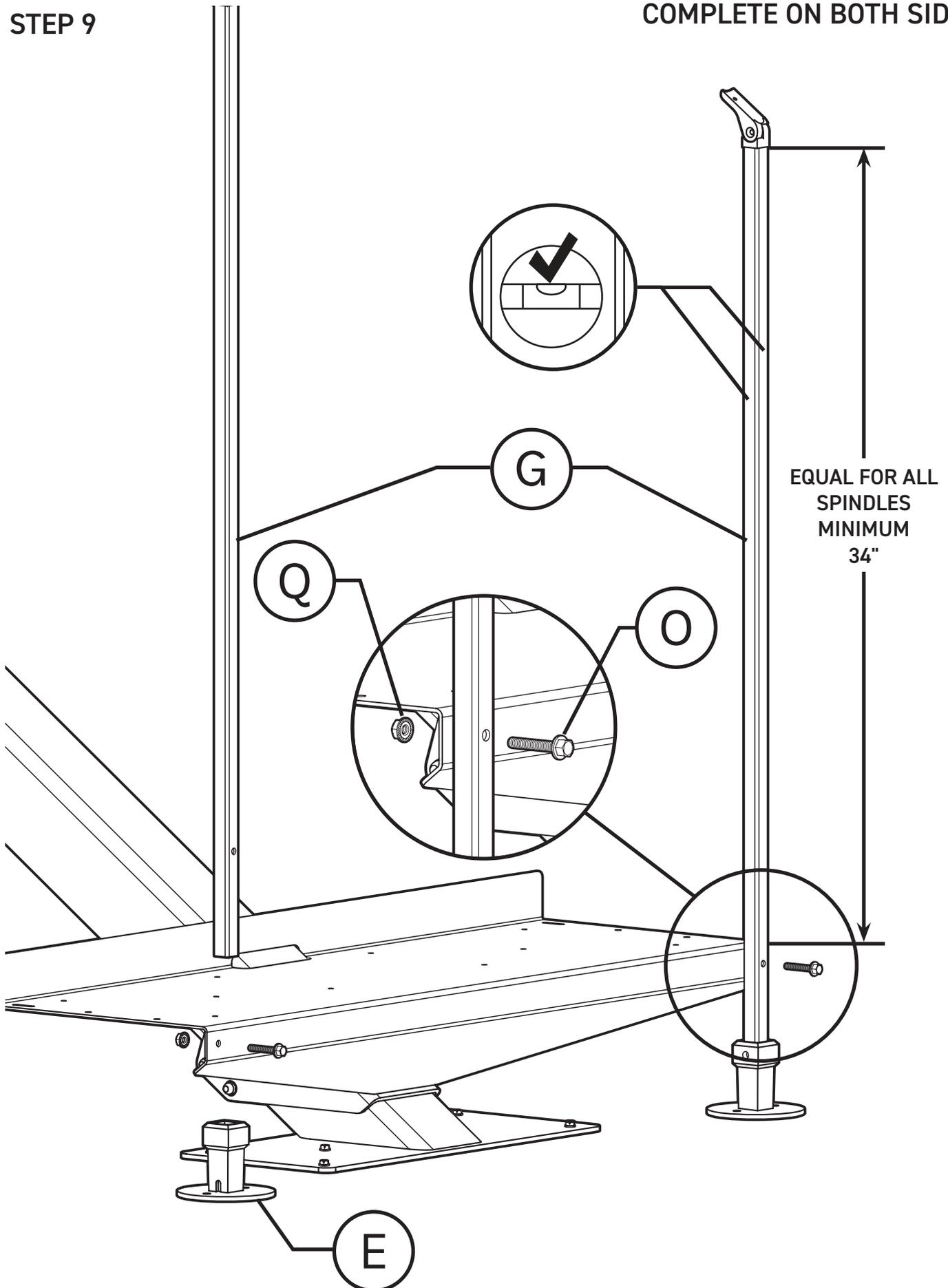


STEP 8

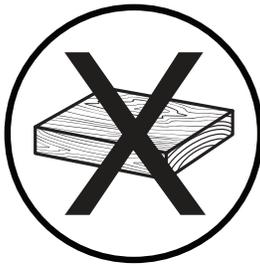


STEP 9

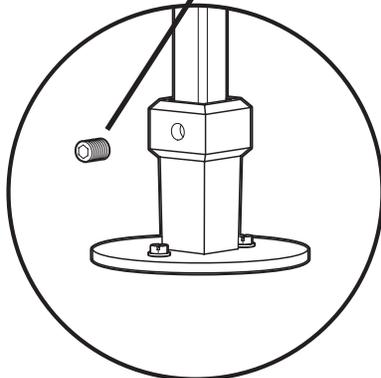
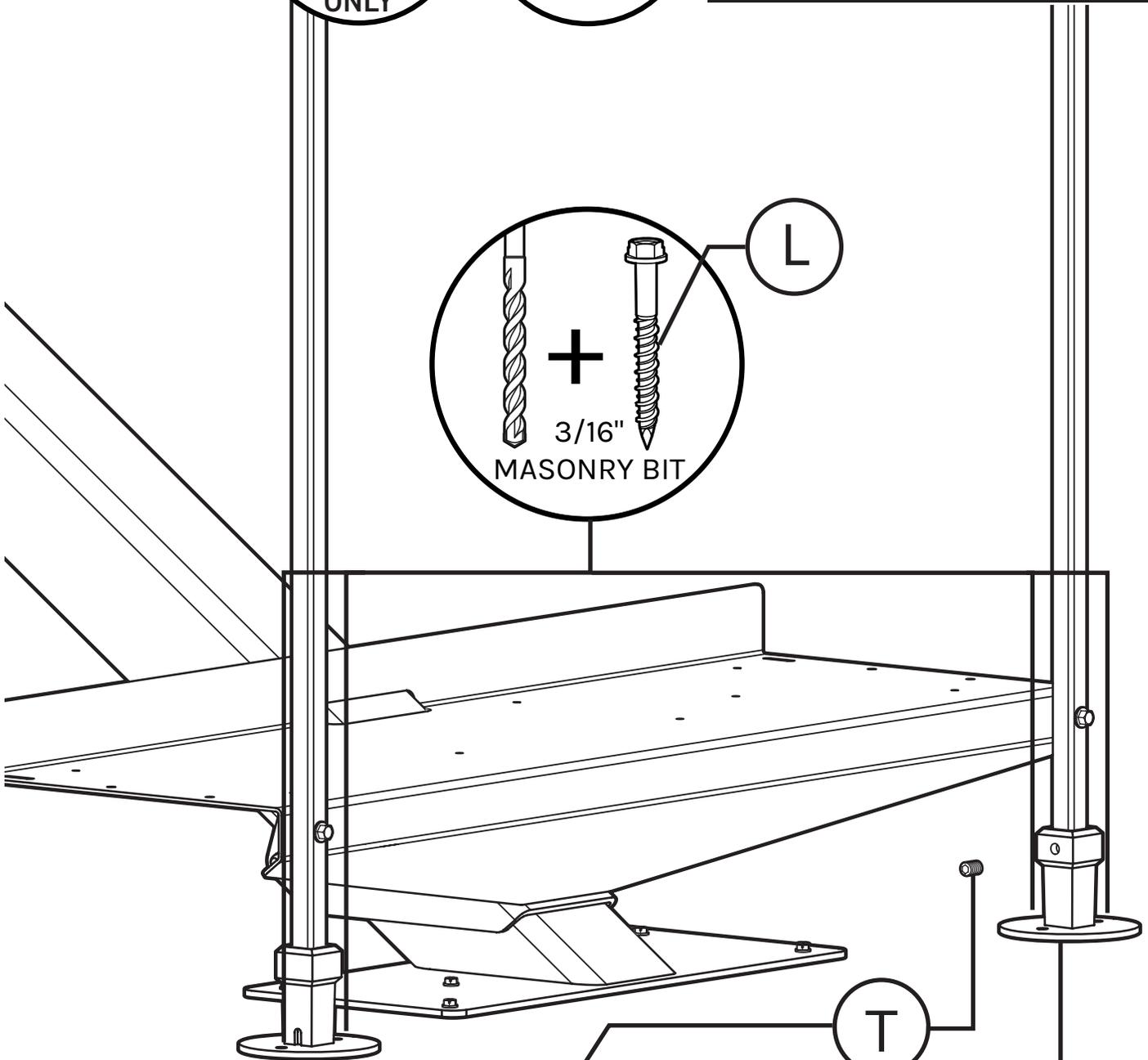
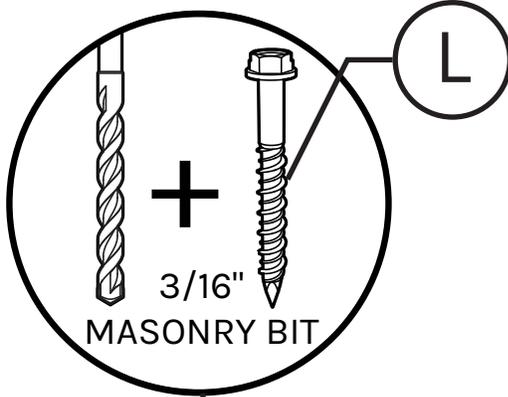
COMPLETE ON BOTH SIDES



STEP 10



HARDWARE PROVIDED FOR  
CONCRETE ONLY.  
CONSULT ENGINEER FOR  
OTHER SUBSTRATES.

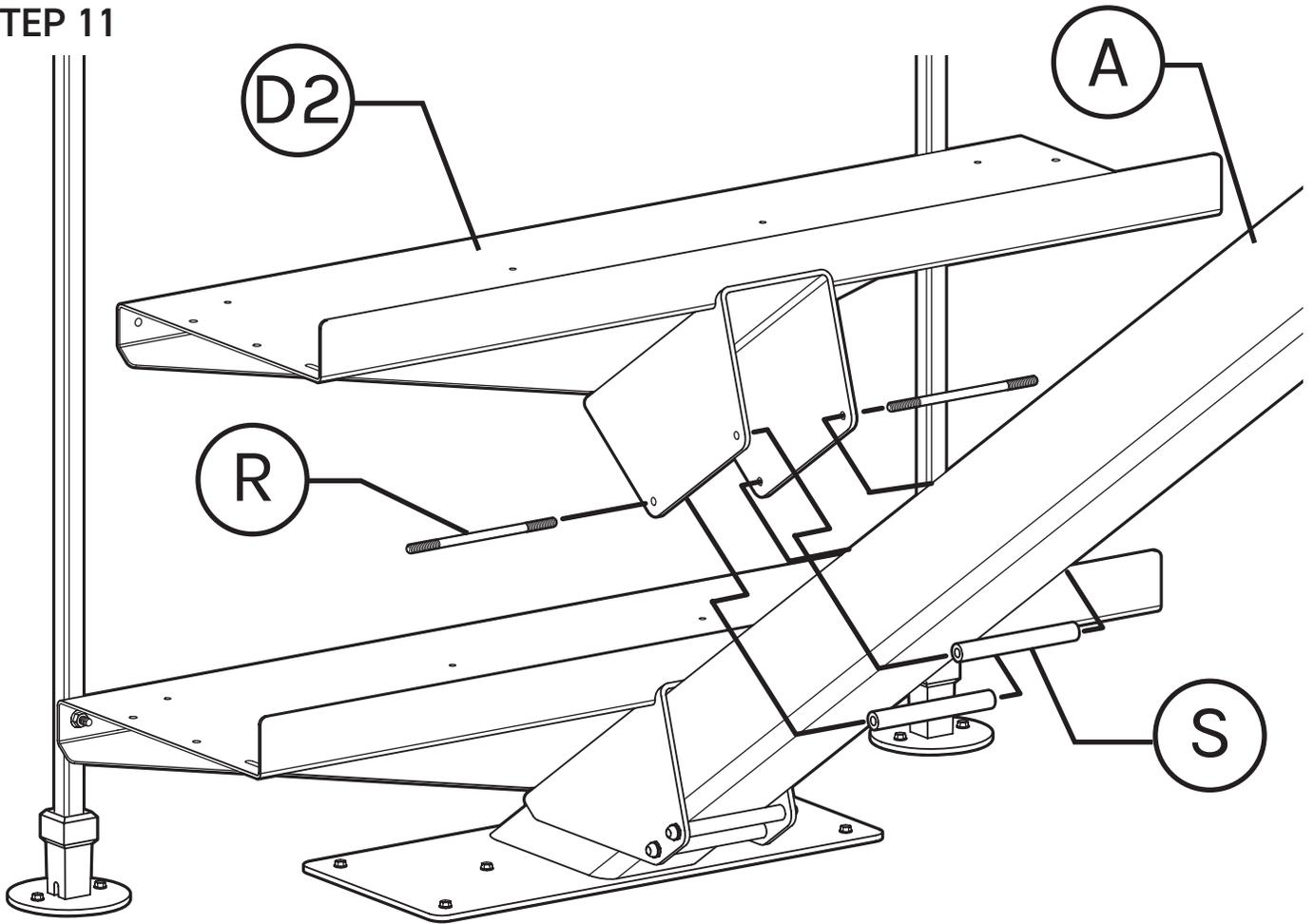


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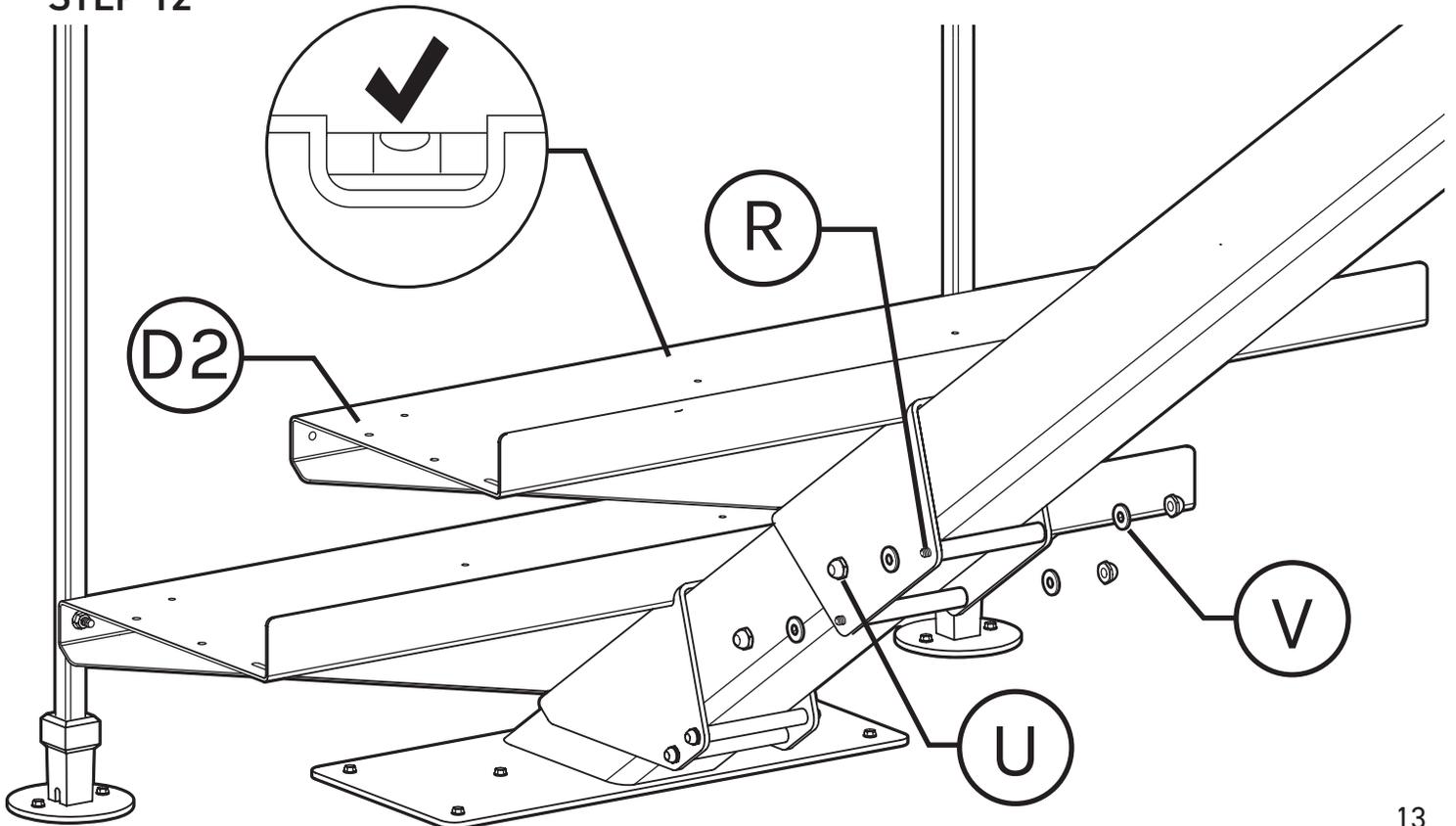
E

COMPLETE ON BOTH SIDES

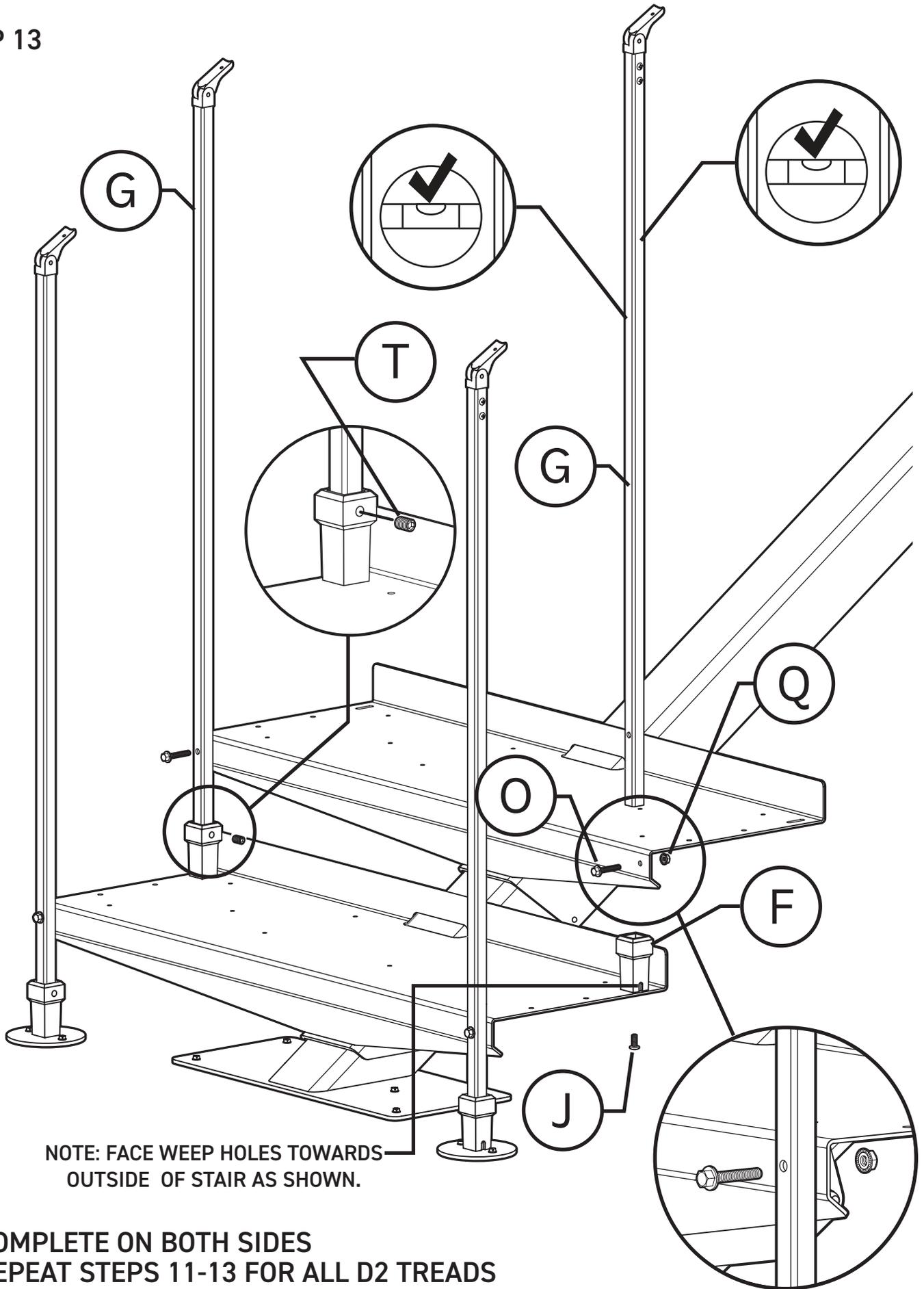
STEP 11



STEP 12



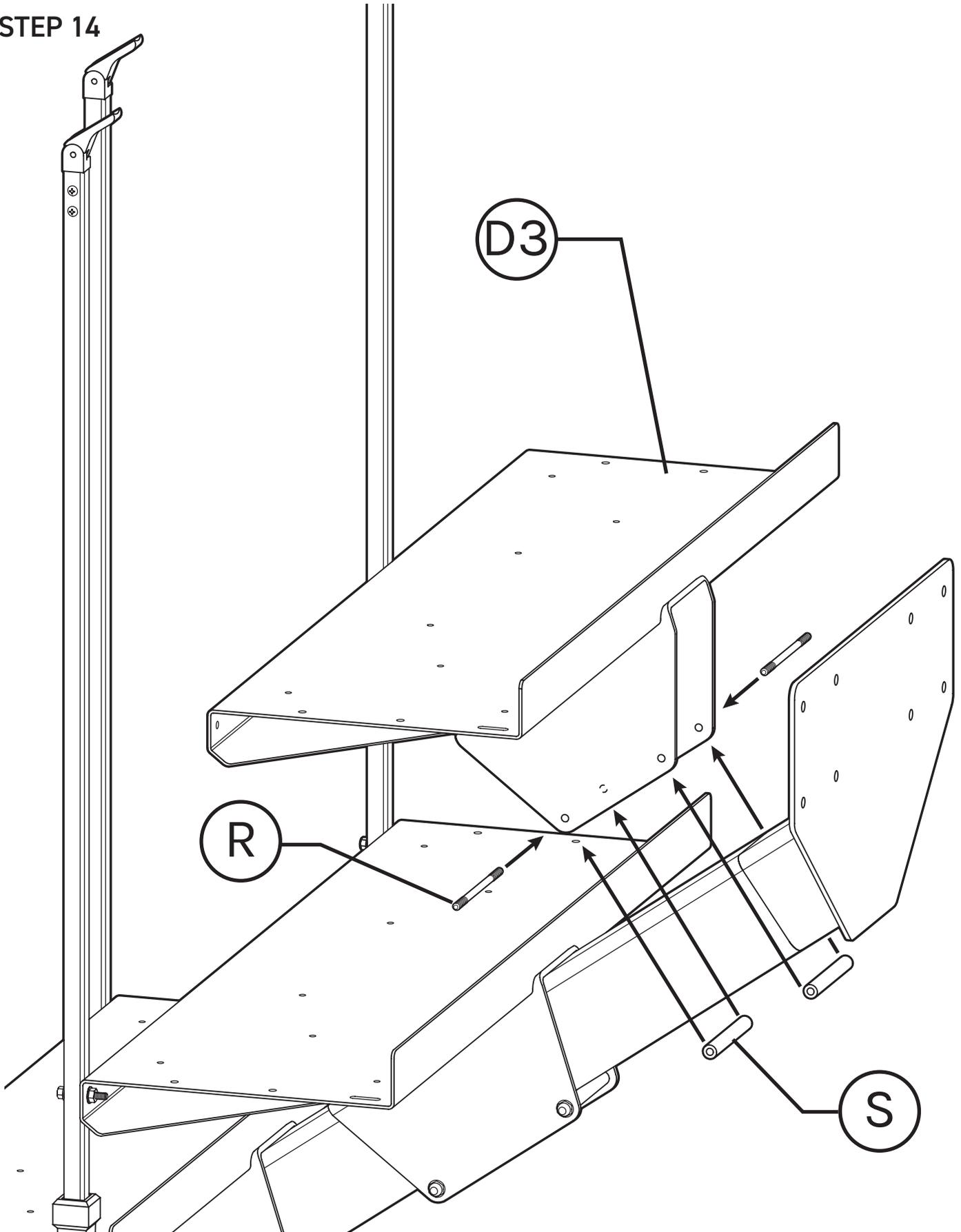
**STEP 13**



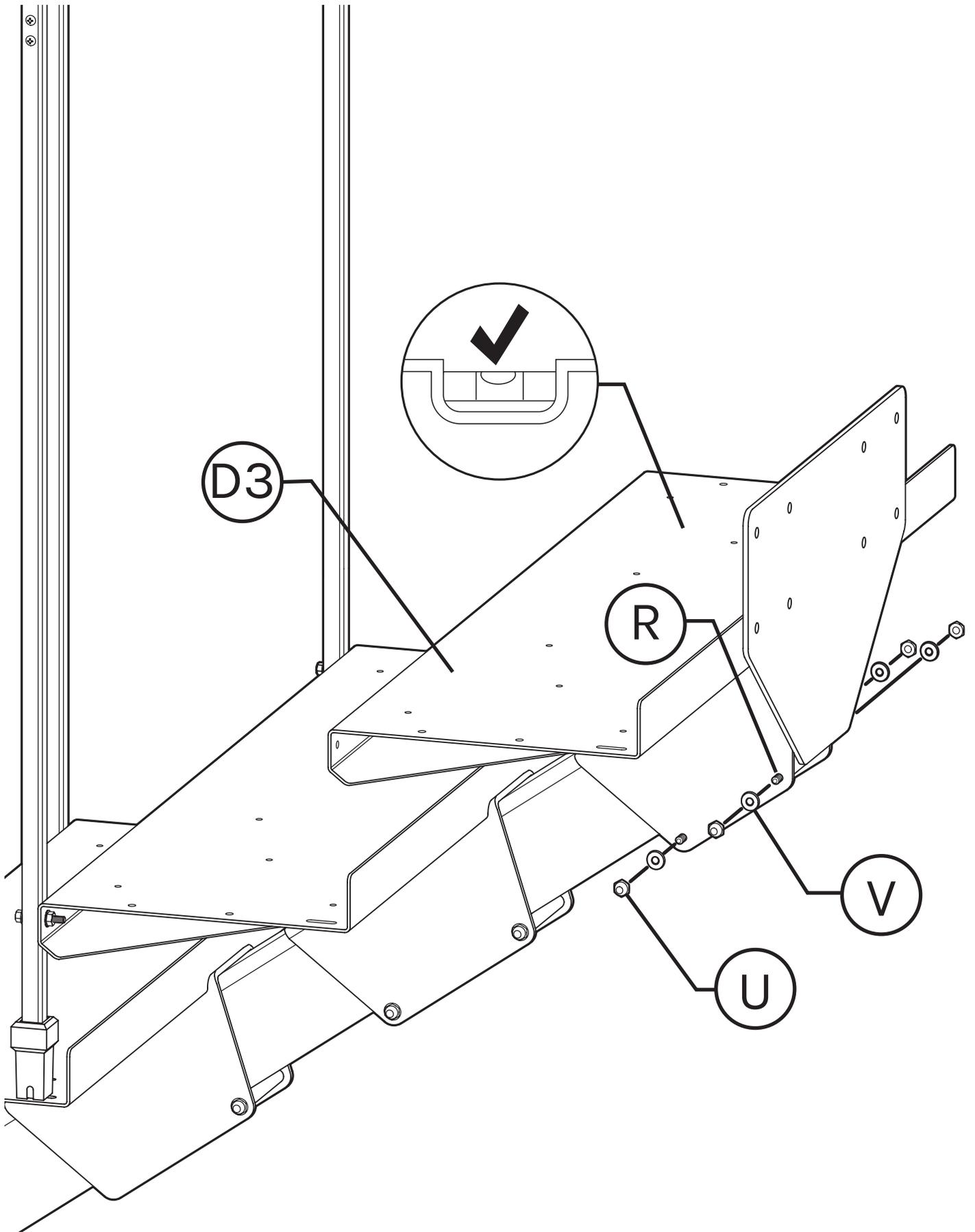
**NOTE: FACE WEEP HOLES TOWARDS  
OUTSIDE OF STAIR AS SHOWN.**

**COMPLETE ON BOTH SIDES  
REPEAT STEPS 11-13 FOR ALL D2 TREADS**

STEP 14

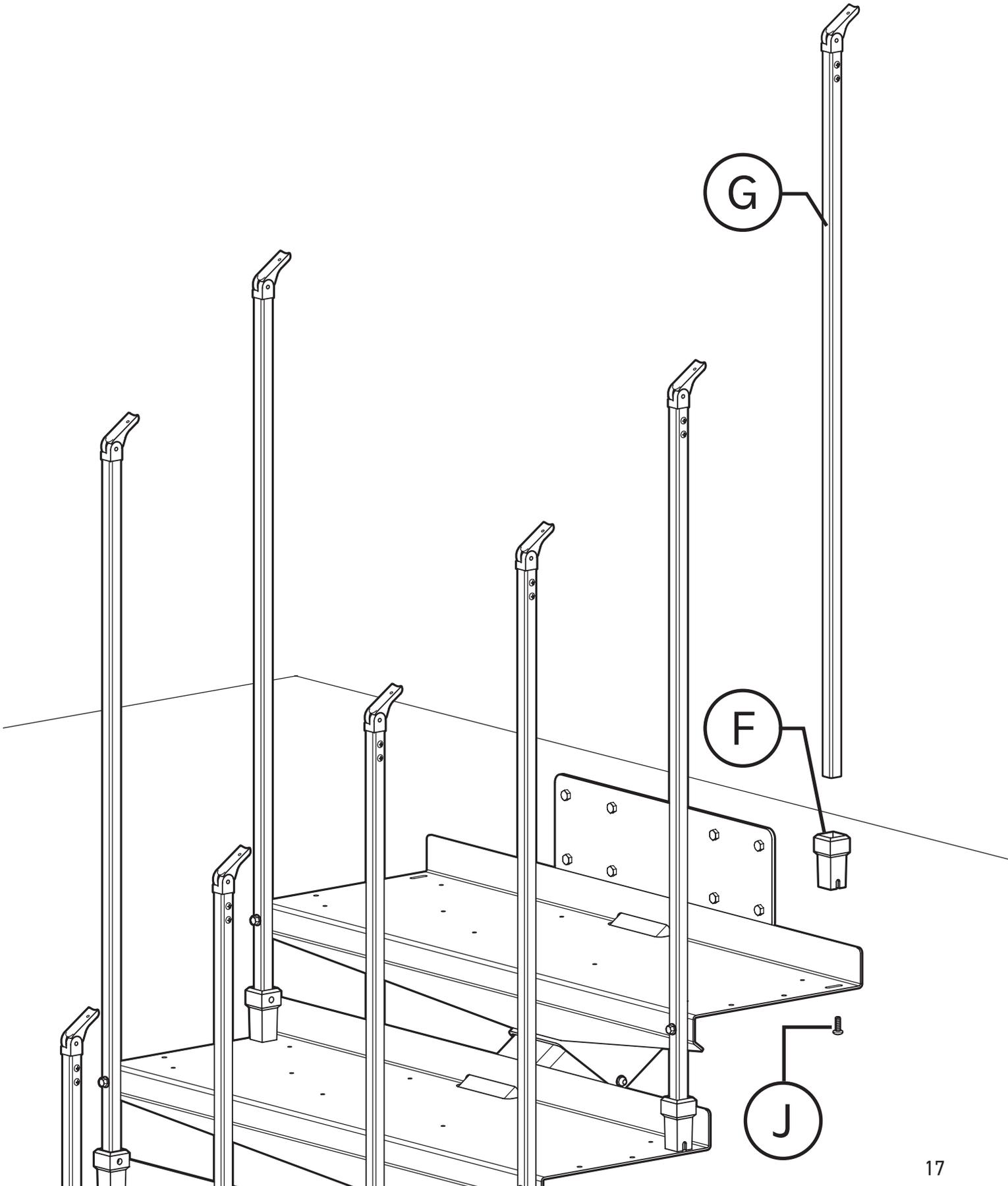


# STEP 15



STEP 16

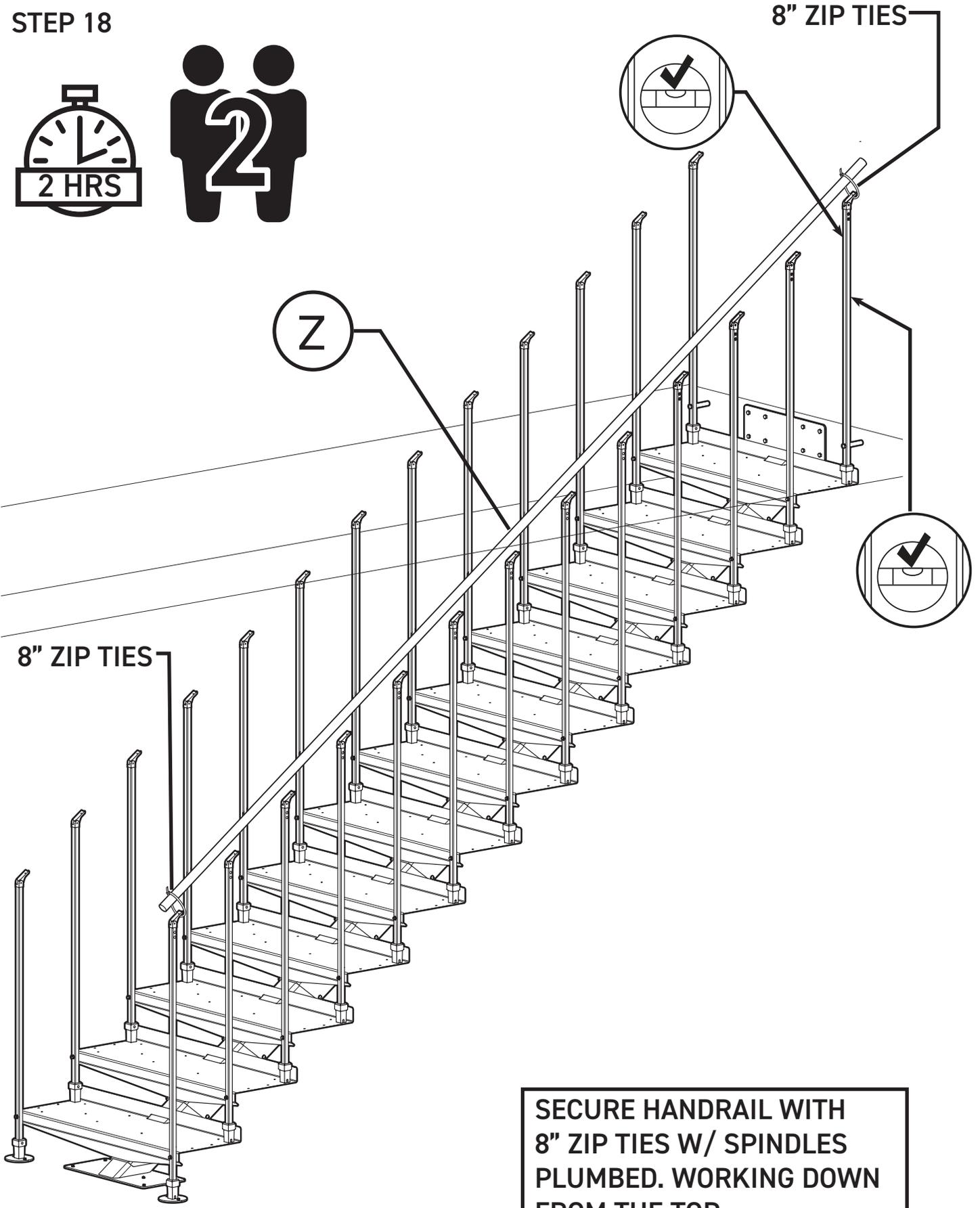
COMPLETE ON BOTH SIDES





# RAILING INSTALLATION:

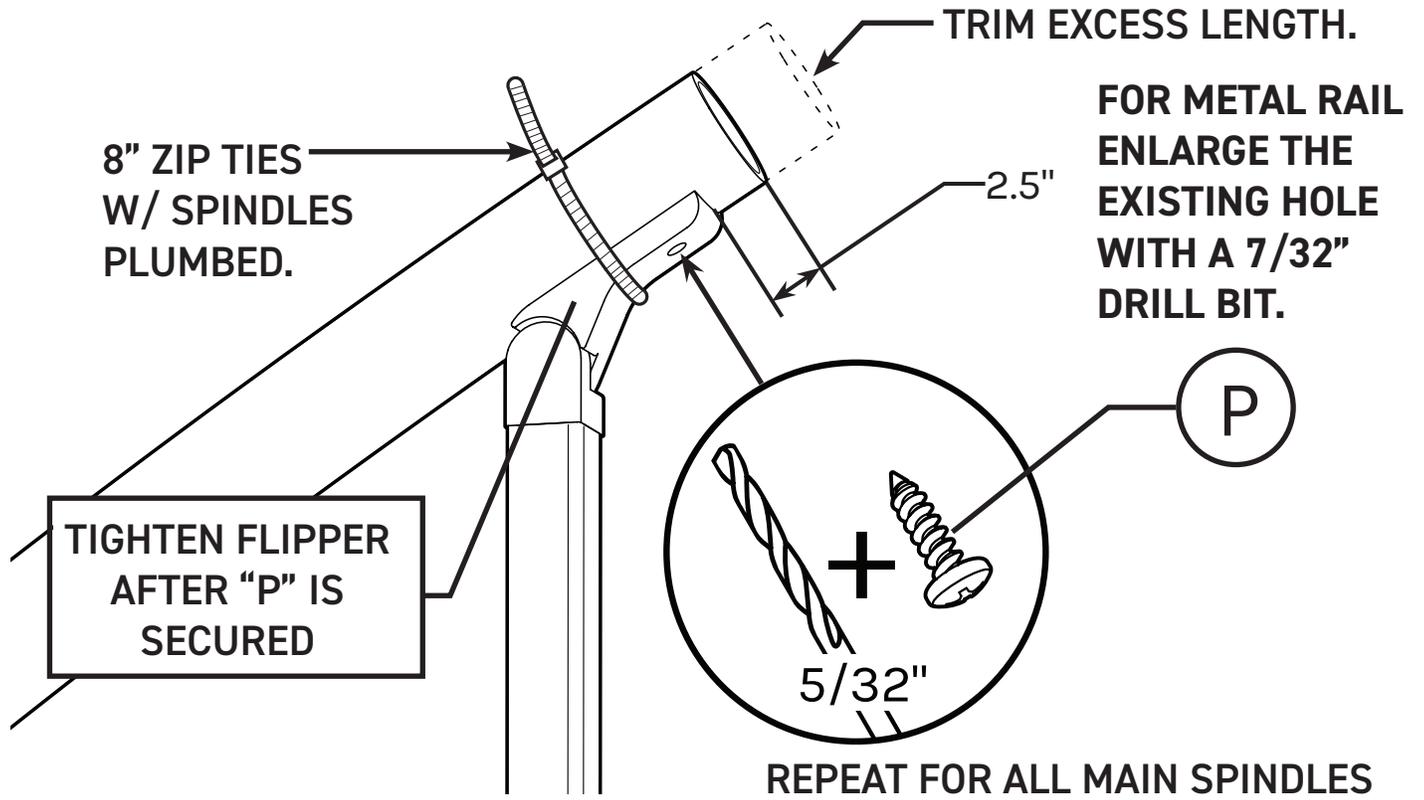
STEP 18



**SECURE HANDRAIL WITH  
8" ZIP TIES W/ SPINDLES  
PLUMBED. WORKING DOWN  
FROM THE TOP**

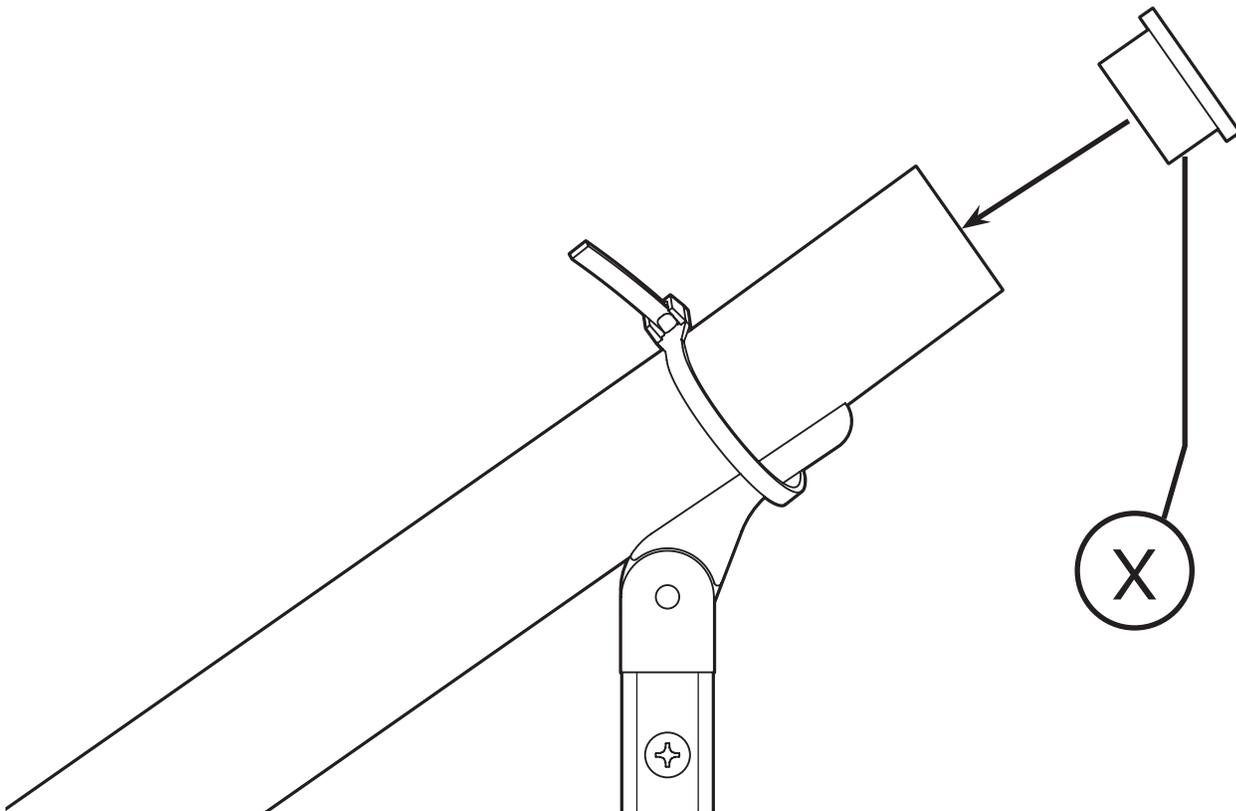
STEP 19

METAL HANDRAIL ONLY



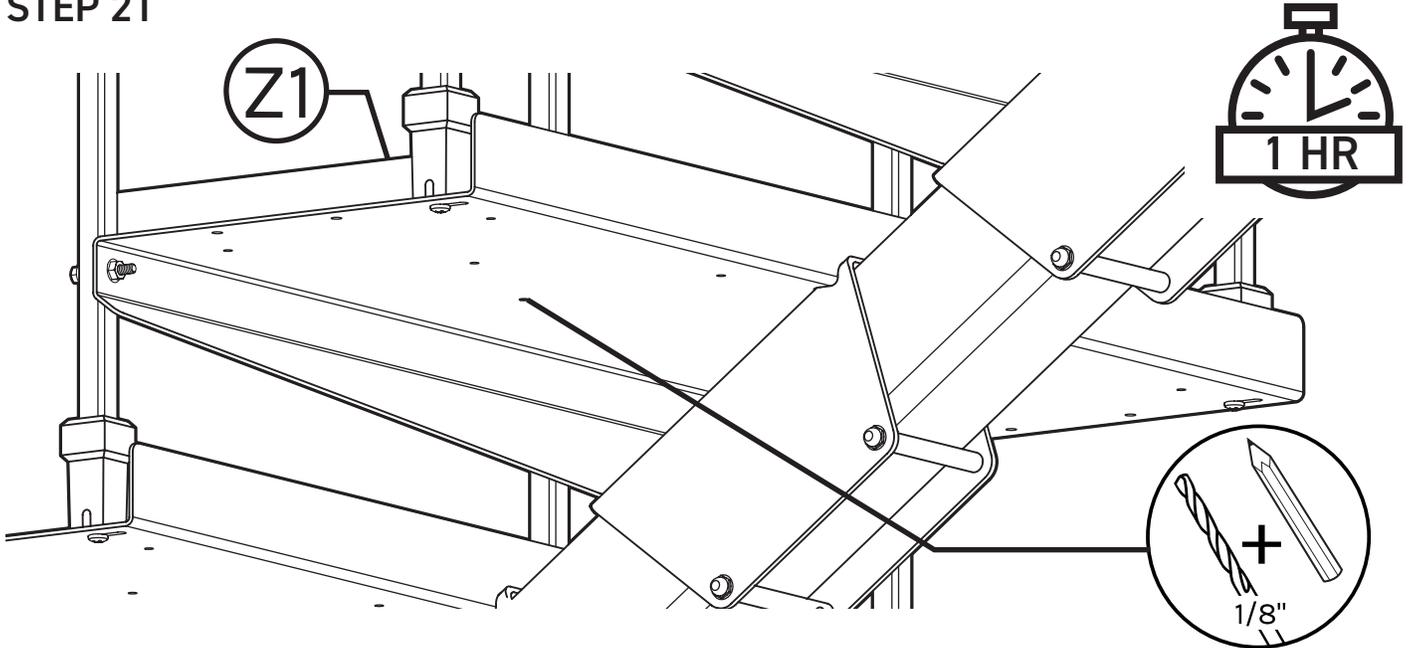
STEP 20

REPEAT STEPS 18 -20 ON THE OTHER SIDE

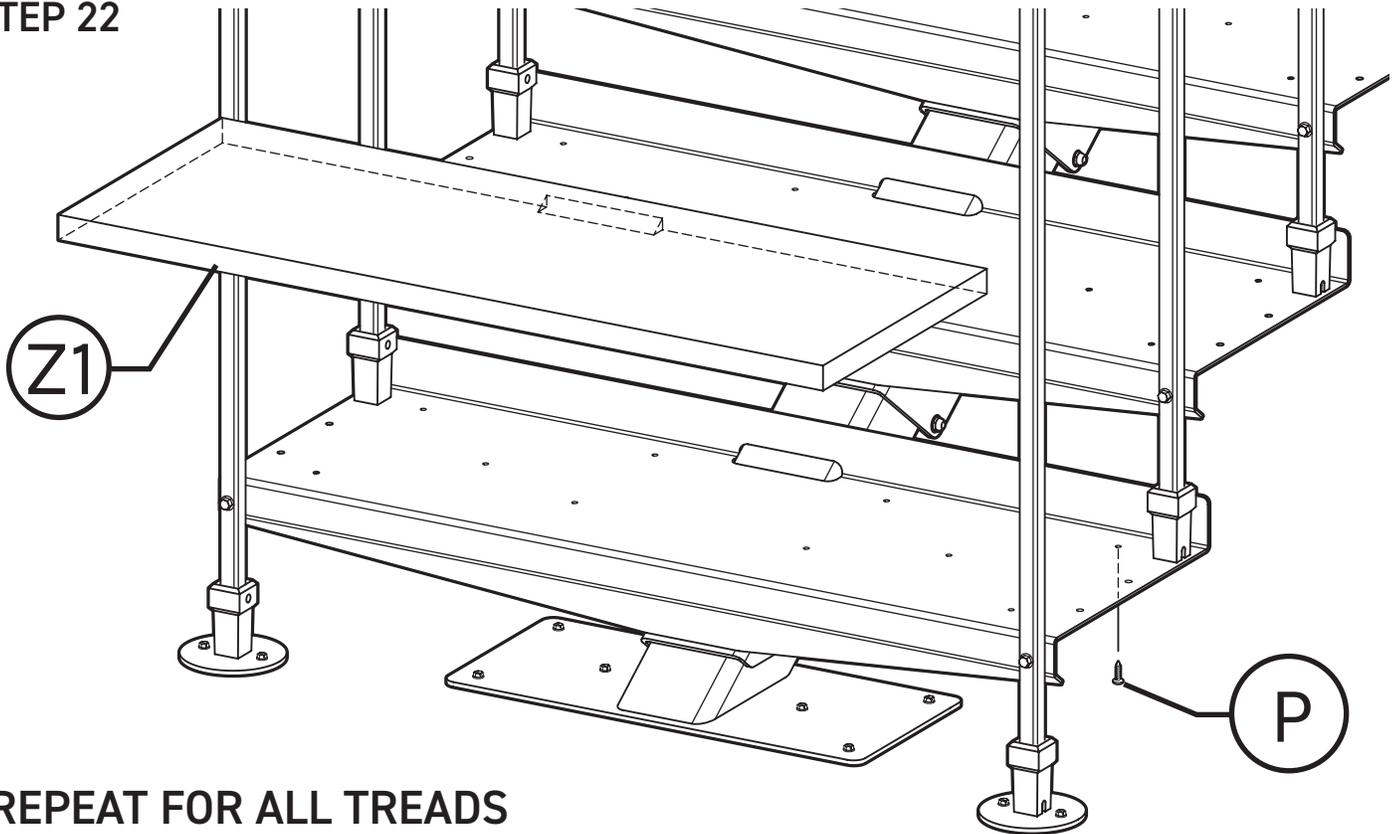


REPEAT AT OPPOSITE END

STEP 21



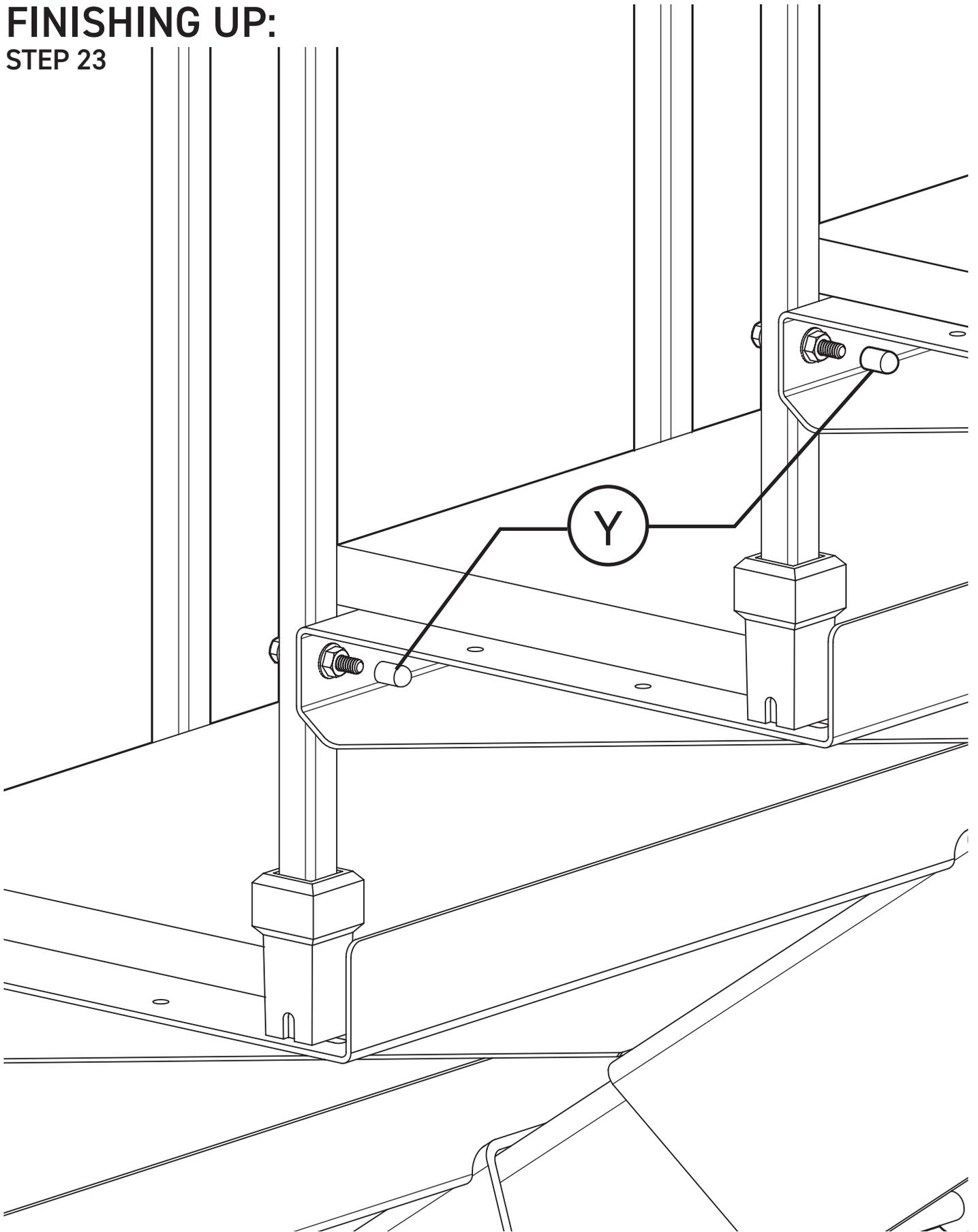
STEP 22



REPEAT FOR ALL TREADS

**NOTE: TO PREVENT WARPING AND CRACKING OF NATURAL WOOD COVERINGS THEY MUST BE COATED ALL SIDES WITHIN (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.**

# FINISHING UP: STEP 23



# **SPIRAL STAIR KIT OPTIONS**

---

**IN BETWEEN SPINDLE INSTALLATION:.....PAGE 24**

**WOOD HANDRAIL INSTALLATION: .....PAGE 29**

**MULTI-LINE RAILING INSTALLATION:.....PAGE 32**

# IN-BETWEEN SPINDLE (IBS) INSTALLATION:

## PARTS



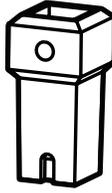
(S1)



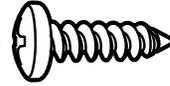
(S2)



(S3)



(S4)



(S5)



(S6)



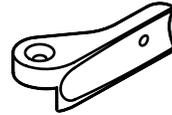
(S7)



(S8)



(S9)



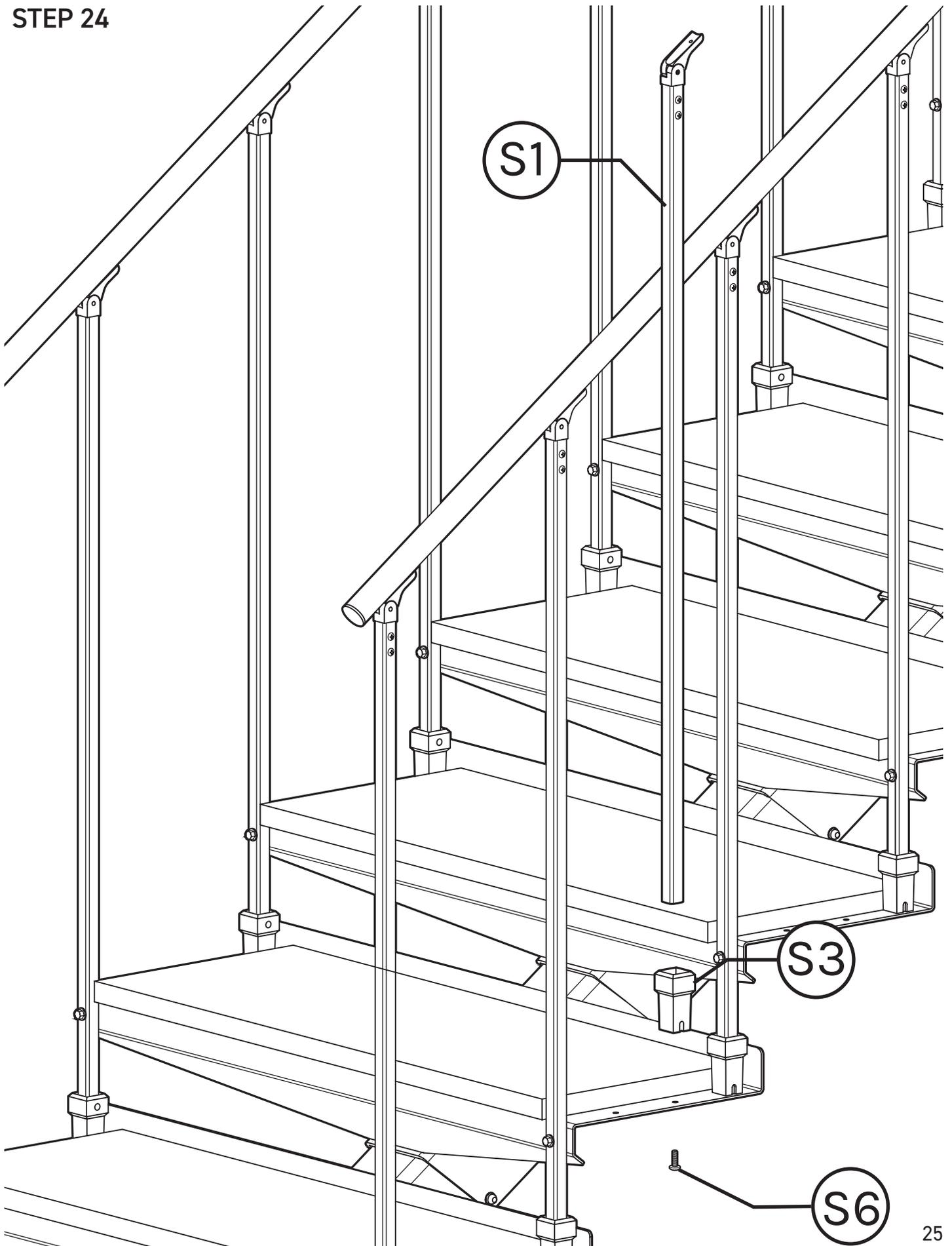
(S10)



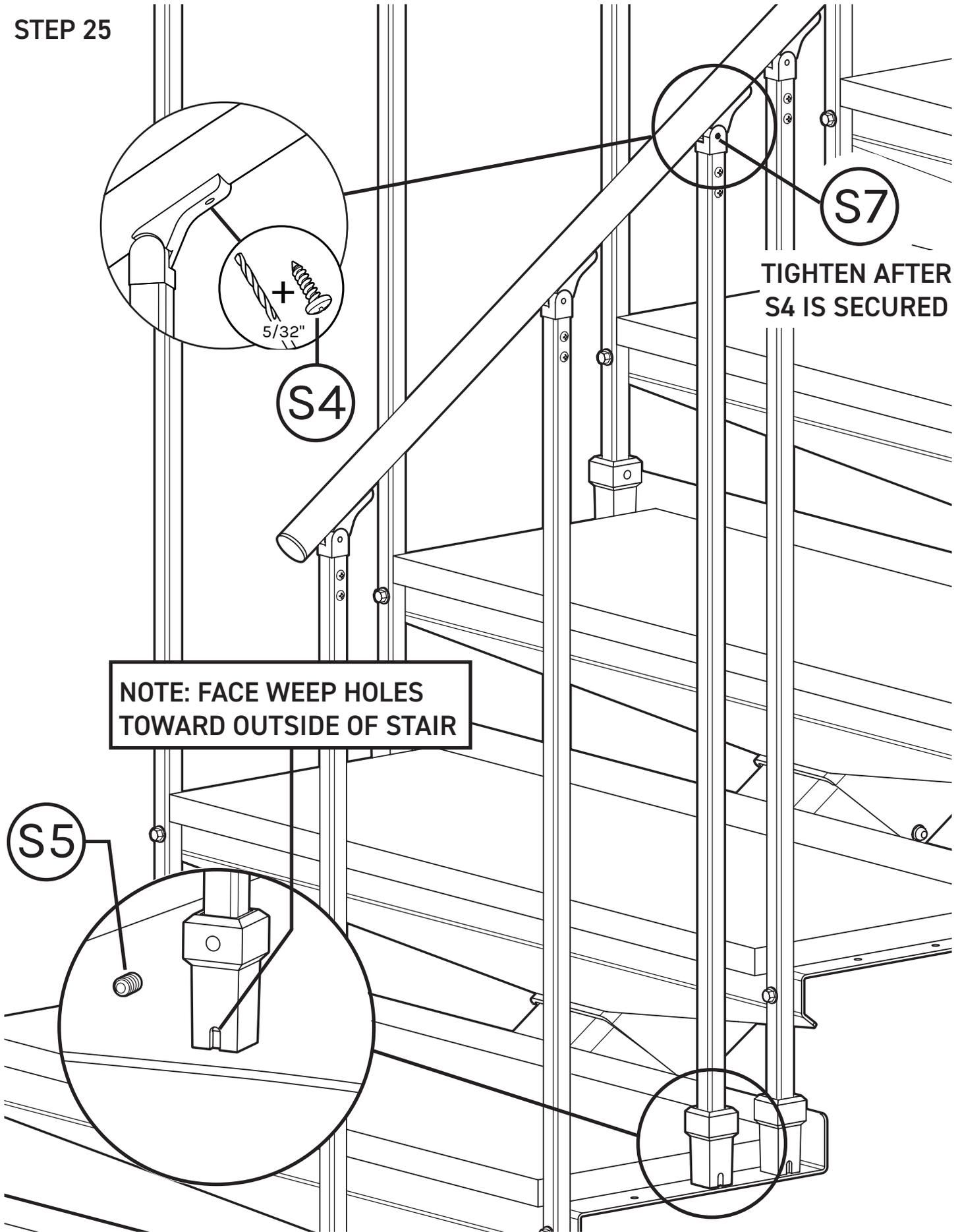
- (S1) First IBS Spindle
- (S2) Second IBS Spindle
- (S3) IRS-4 Tube Bottom Cup
- (S4) #10 x 3/4" Pan Head Sheet Metal Screw
- (S5) 5/16"-18 x 5/16" Set Screw
- (S6) 1/4"-20x3/4" Phillips Pan Head Machine Screw
- (S7) #10-24 x 3/4" Phillips Flat Head Machine Screw
- (S8) #10-24 x 1/2" Round Head Thread Forming Screw
- (S9) IRS-2 Spindle Top Fitting
- (S10) IRS-1 Flipper Head

**NOTE: PLEASE REFER TO STEP 2 FOR ASSEMBLY OF THE IBS SPINDLES.**

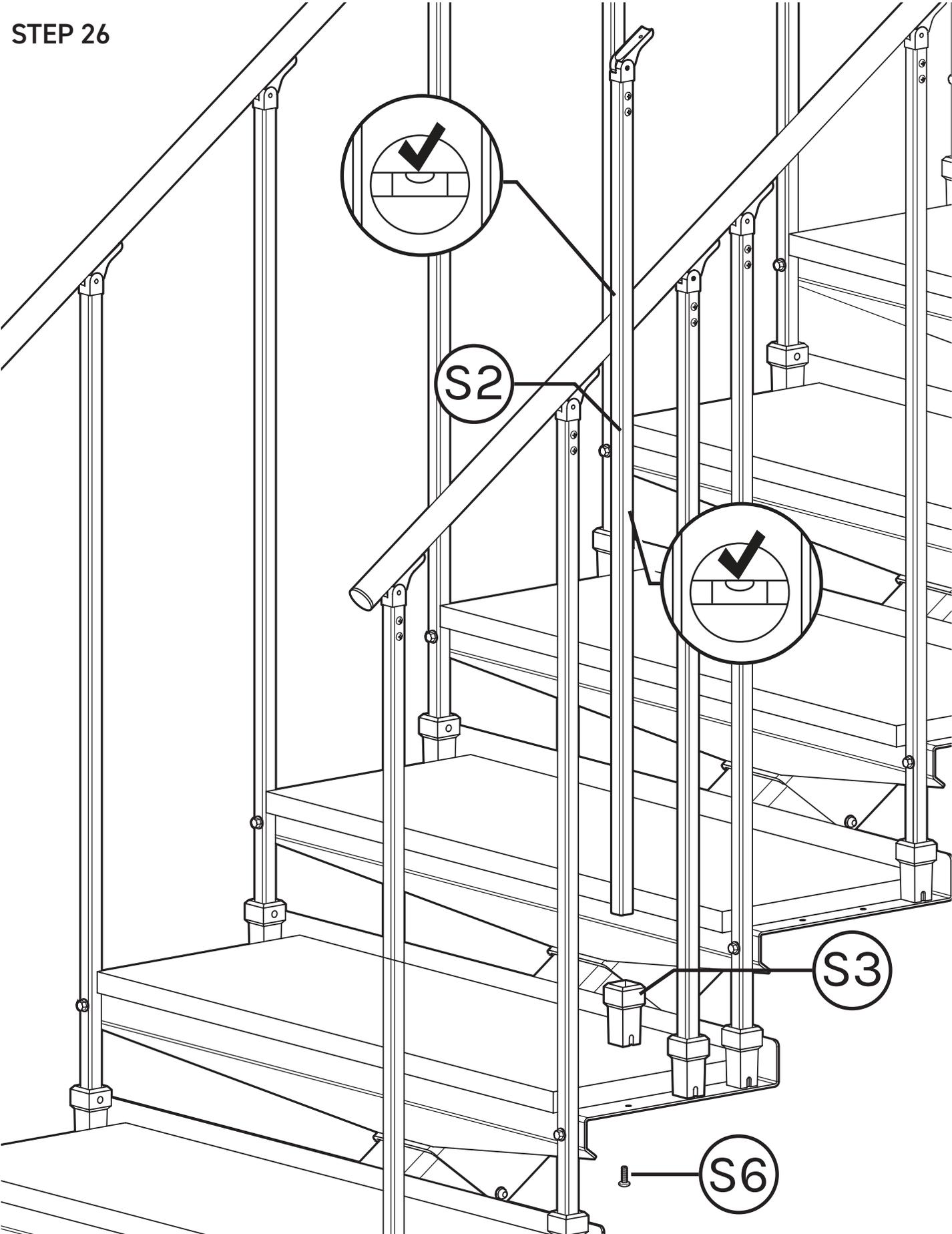
STEP 24



STEP 25



STEP 26



**STEP 27 REPEAT STEPS 24-27 FOR ALL TREADS BOTH SIDES**

**TIGHTEN  
AFTER S4 IS  
SECURED**

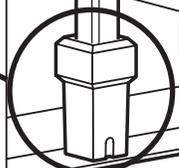
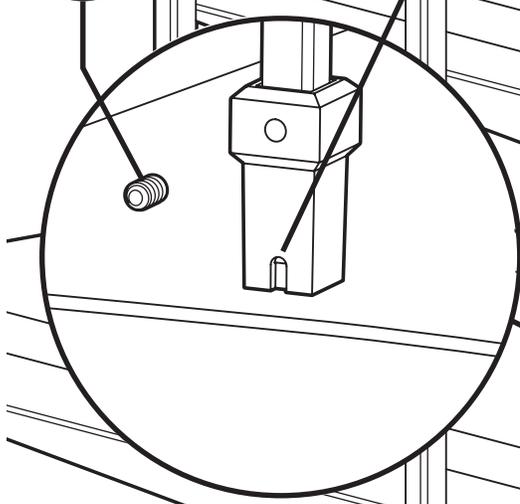
**S7**

**+**  
**5/32"**

**S4**

**NOTE: FACE WEEP HOLES  
TOWARD OUTSIDE OF STAIR**

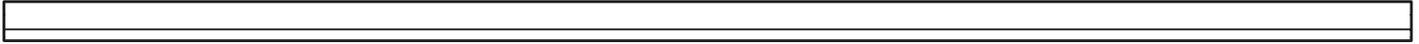
**S5**



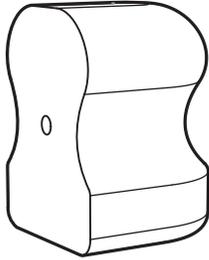
# WOOD HANDRAIL INSTALLATION: PARTS



H1



H2



H3



H4

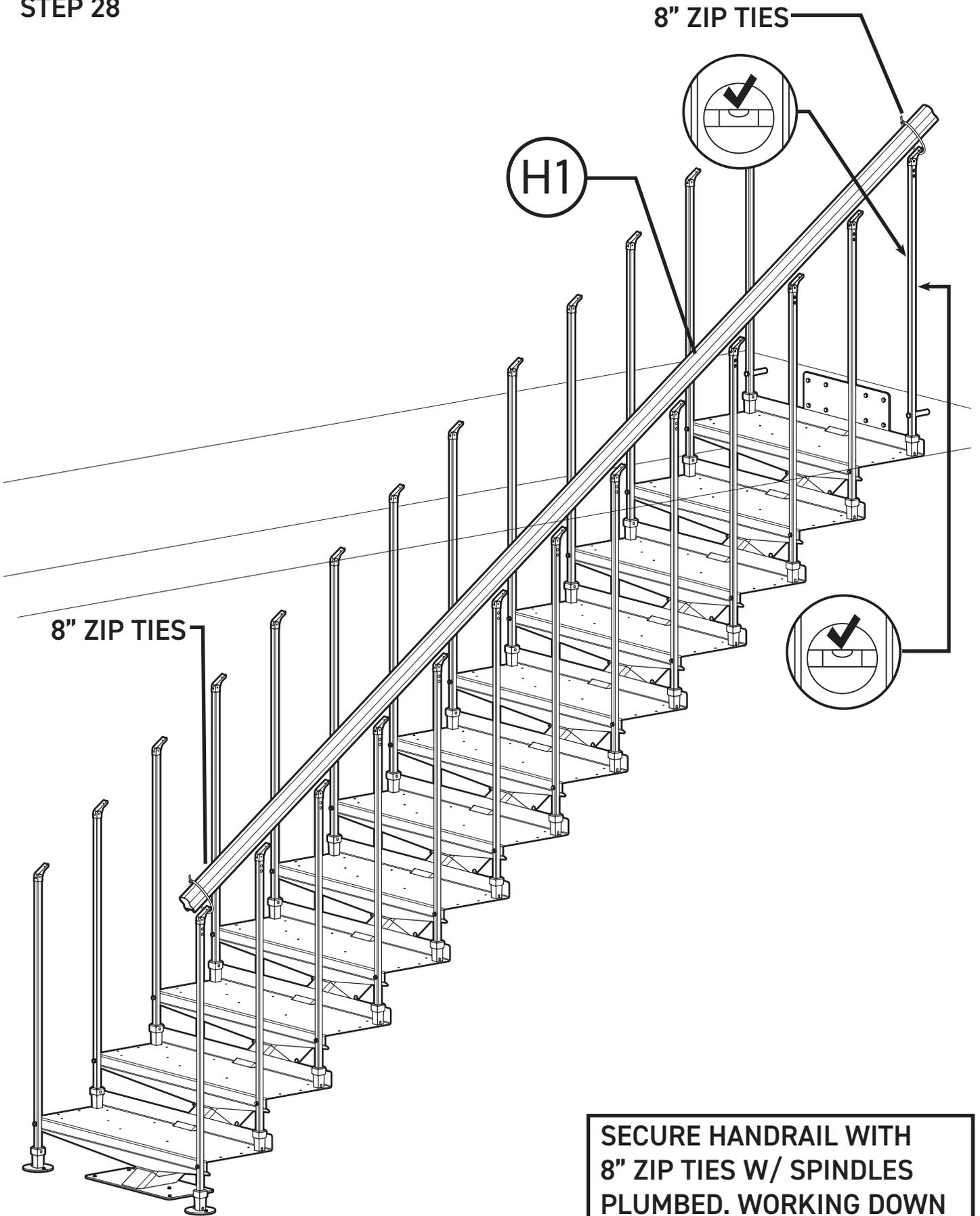


H5



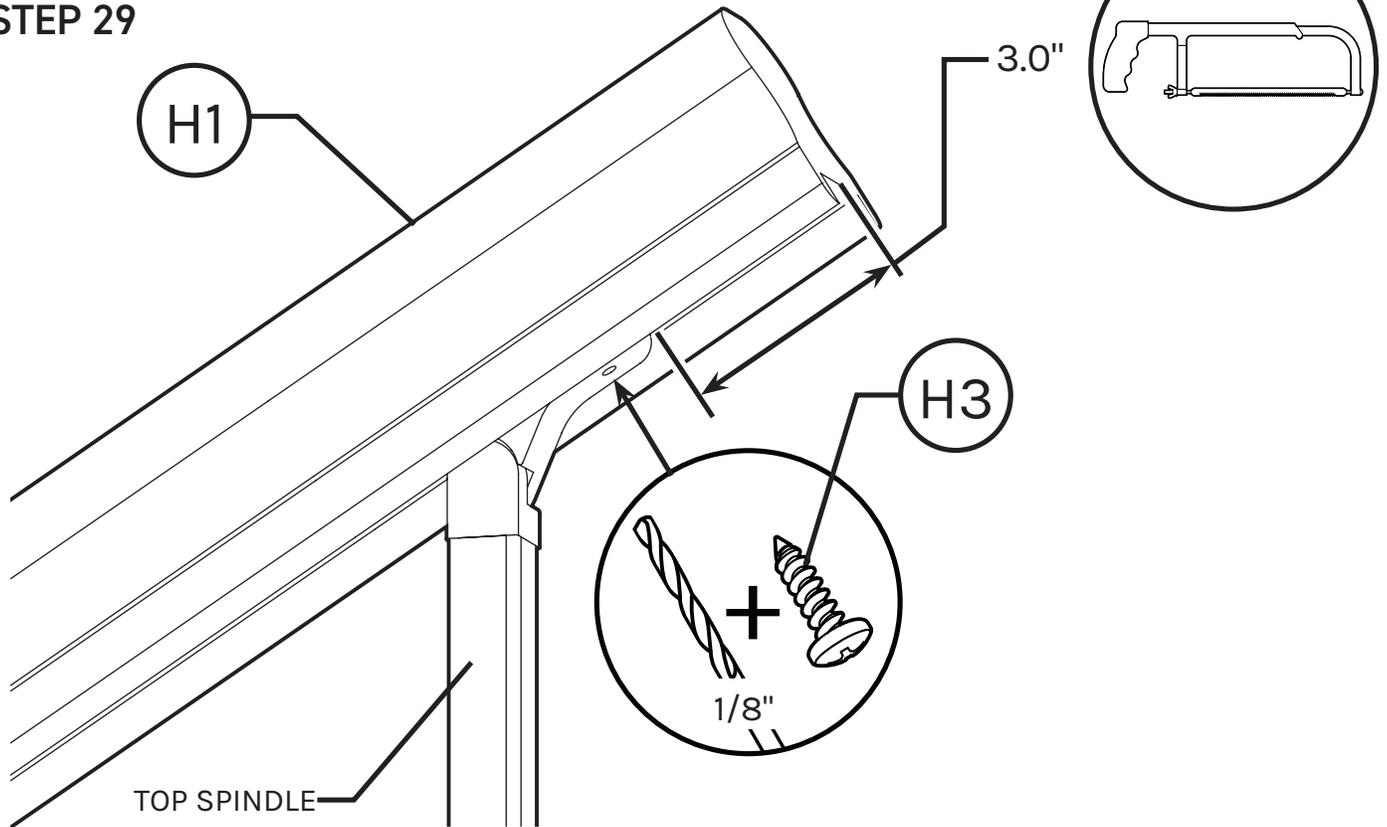
H1	Wood Handrail	H4	#10 x 1-1/4" Pan Head Sheet Metal Screw
H2	Wood End Cap	H5	Wood plug
H3	#10 x 3/4" Pan Head Wood Screw		

**STEP 28**



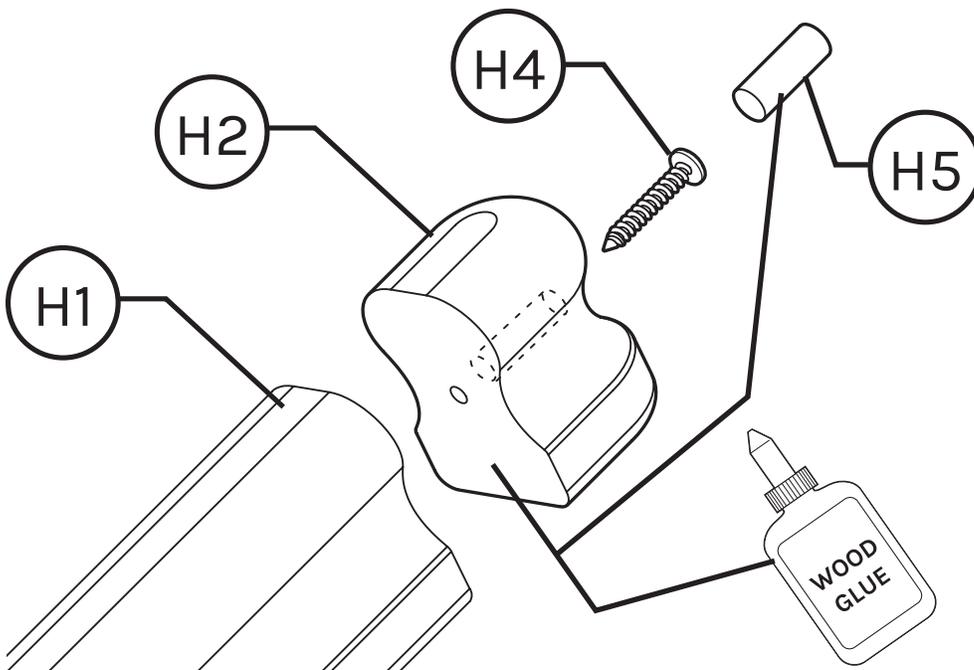
**SECURE HANDRAIL WITH  
8" ZIP TIES W/ SPINDLES  
PLUMBED. WORKING DOWN  
FROM THE TOP**

STEP 29

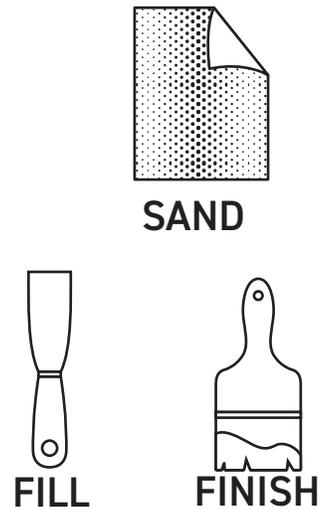


REPEAT FOR ALL SPINDLES

STEP 30



STEP 31



NOTE: FOR WOOD SCROLL ENDS CUSTOMER TO DRILL A 3/16" PILOT HOLE AND INSTALL 'H4' HANGER BOLT INTO END OF HANDRAIL AFTER CUTTING TO LENGTH.

REPEAT STEPS 28-31 FOR THE OTHER SIDE

# MULTI-LINE RAILING INSTALLATION:

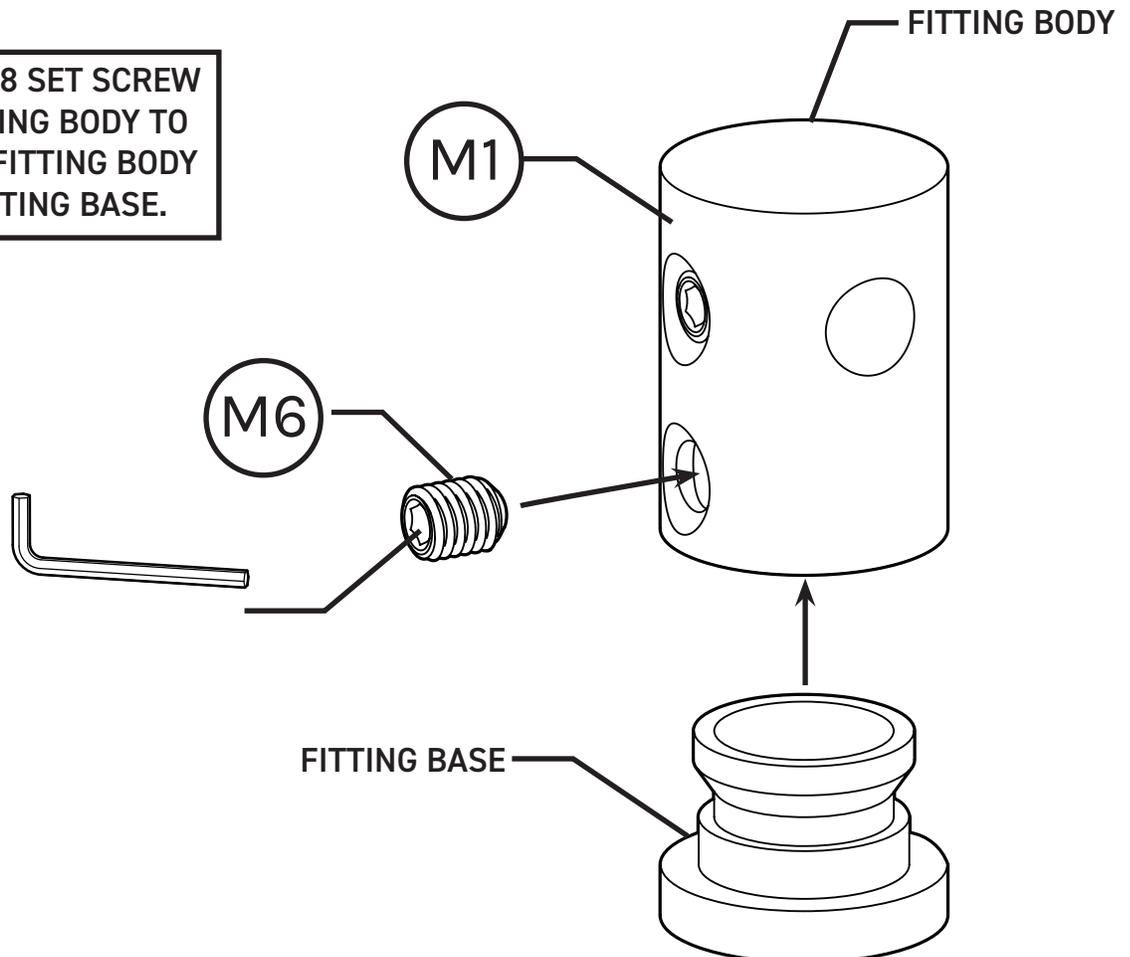
## PARTS



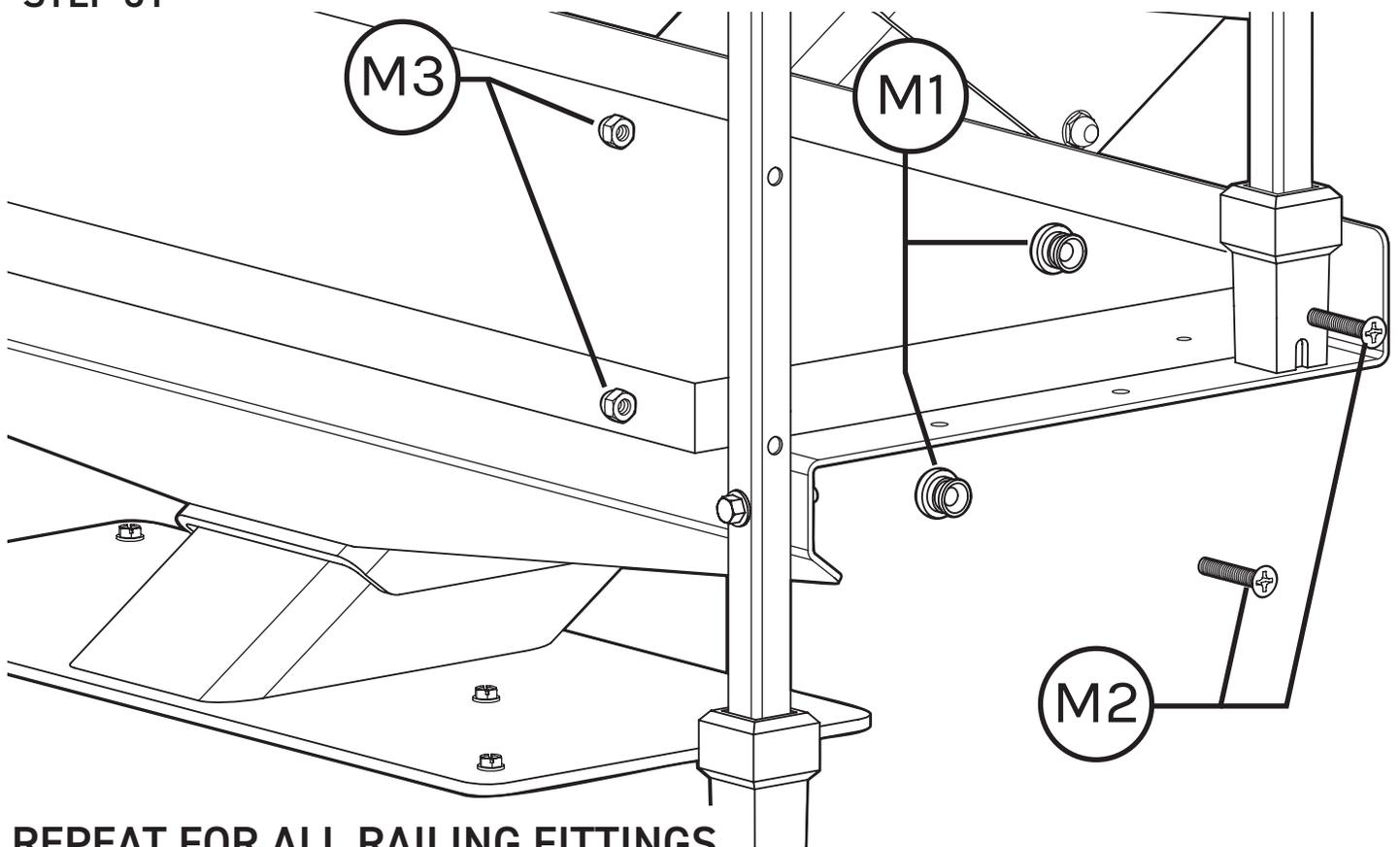
M1 Railing Fitting	M4 1/2" Long Black Rubber Cap
M2 1/4" - 20 x 1-1/2" Flat Head Machine Screw	M5 1/4" Dia. Solid Stainless Steel Multi-Line Rod
M3 1/4" - 20 x Acorn Nut	M6 M5 x .08 Set Screw (Pre-Installed)

## ASSEMBLY NOTE!!

REMOVE M5 X .08 SET SCREW FROM THE FITTING BODY TO SEPARATE THE FITTING BODY FROM THE FITTING BASE.

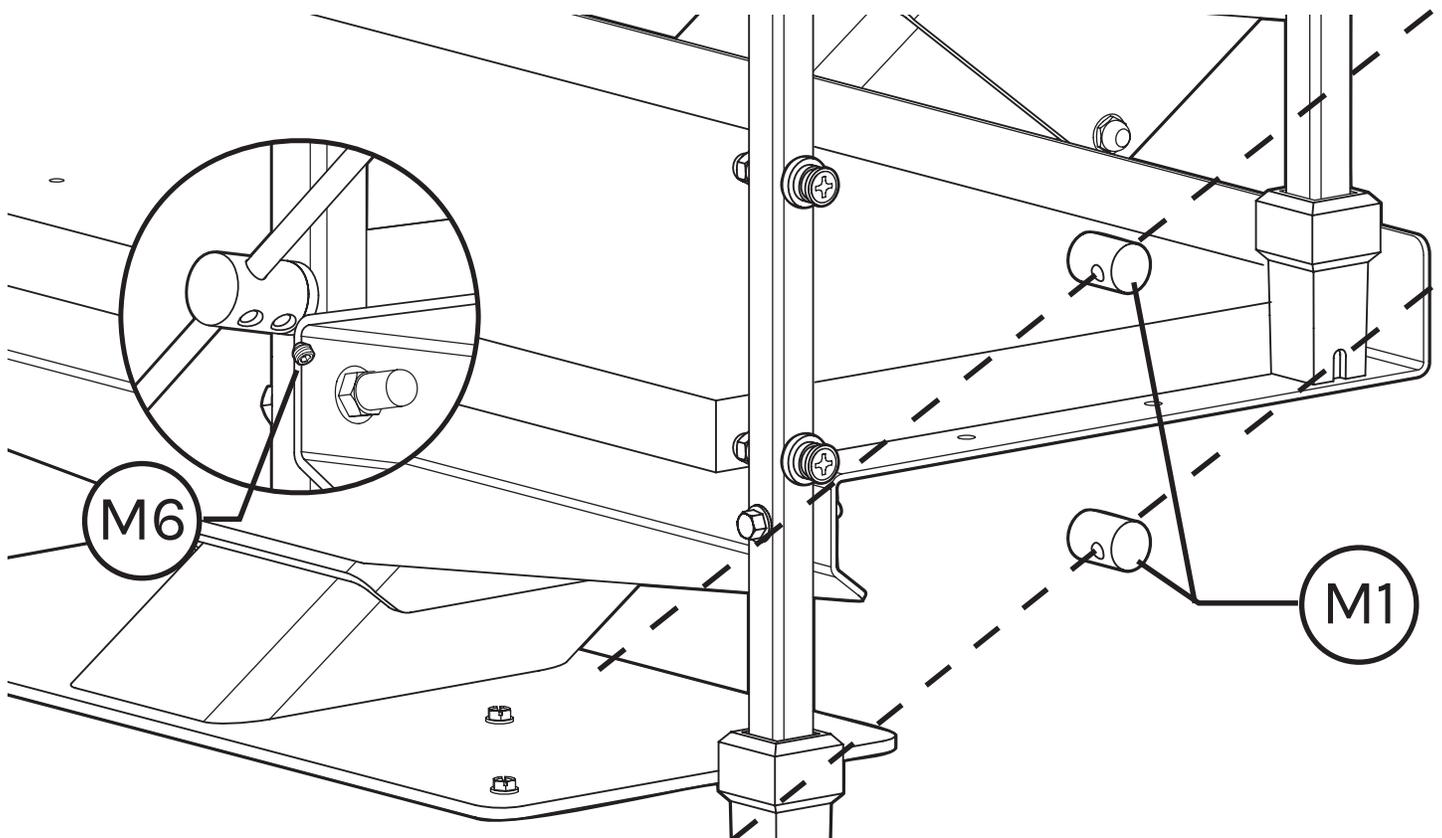


**STEP 31**



**REPEAT FOR ALL RAILING FITTINGS**

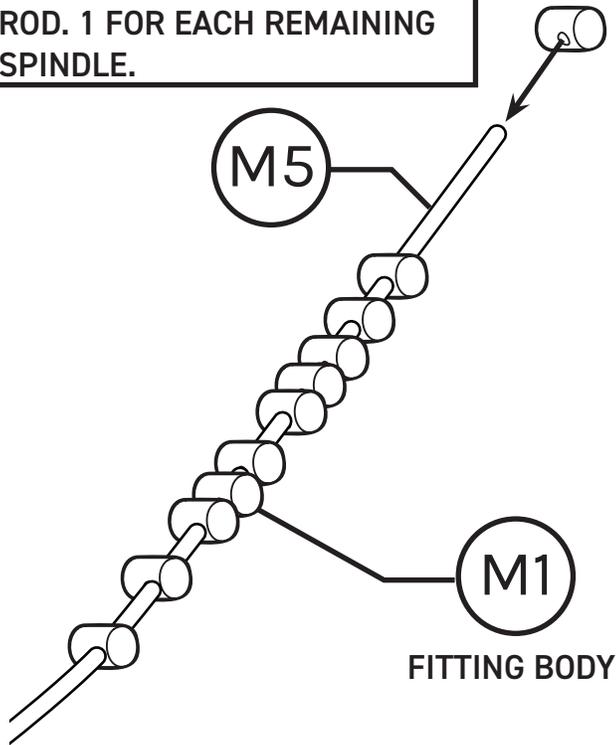
**STEP 32**



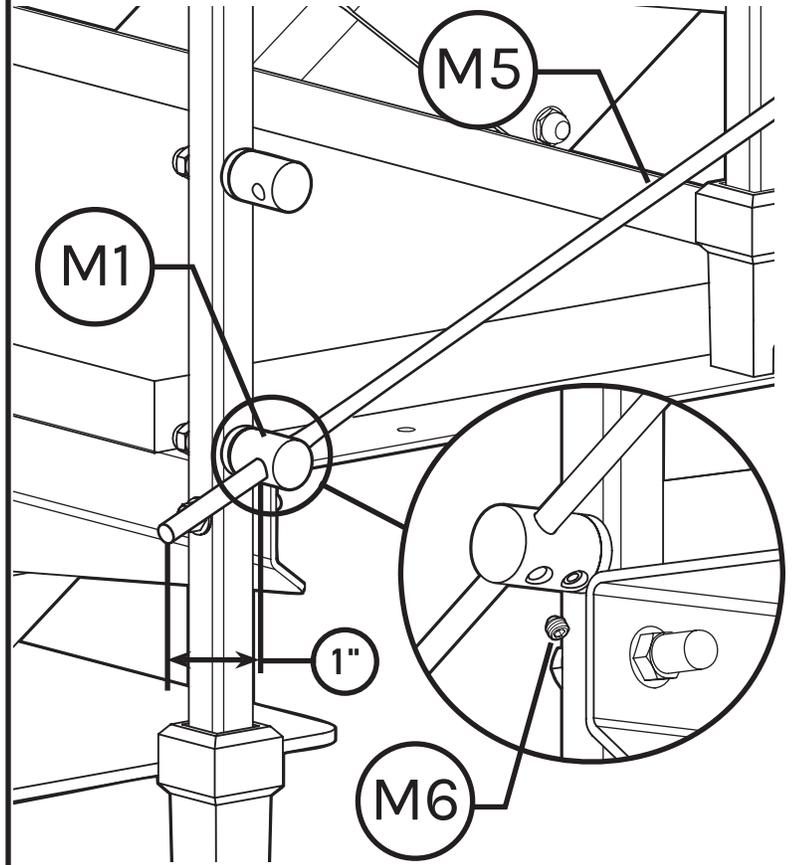
**REPEAT FOR ALL BOTTOM SPINDLE RAILING FITTINGS**

### STEP 33

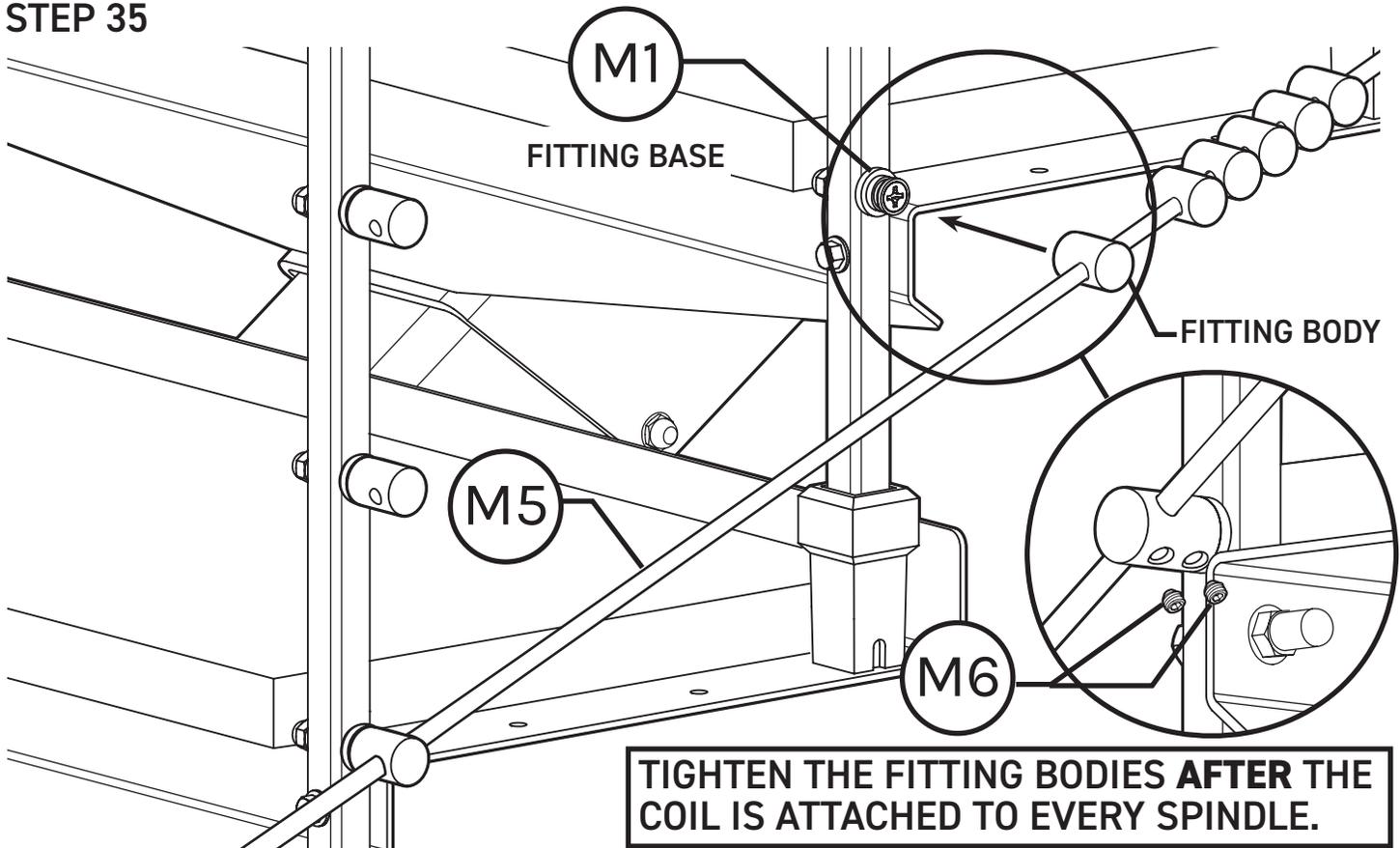
THREAD FITTING BODIES ONTO ROD. 1 FOR EACH REMAINING SPINDLE.



### STEP 34

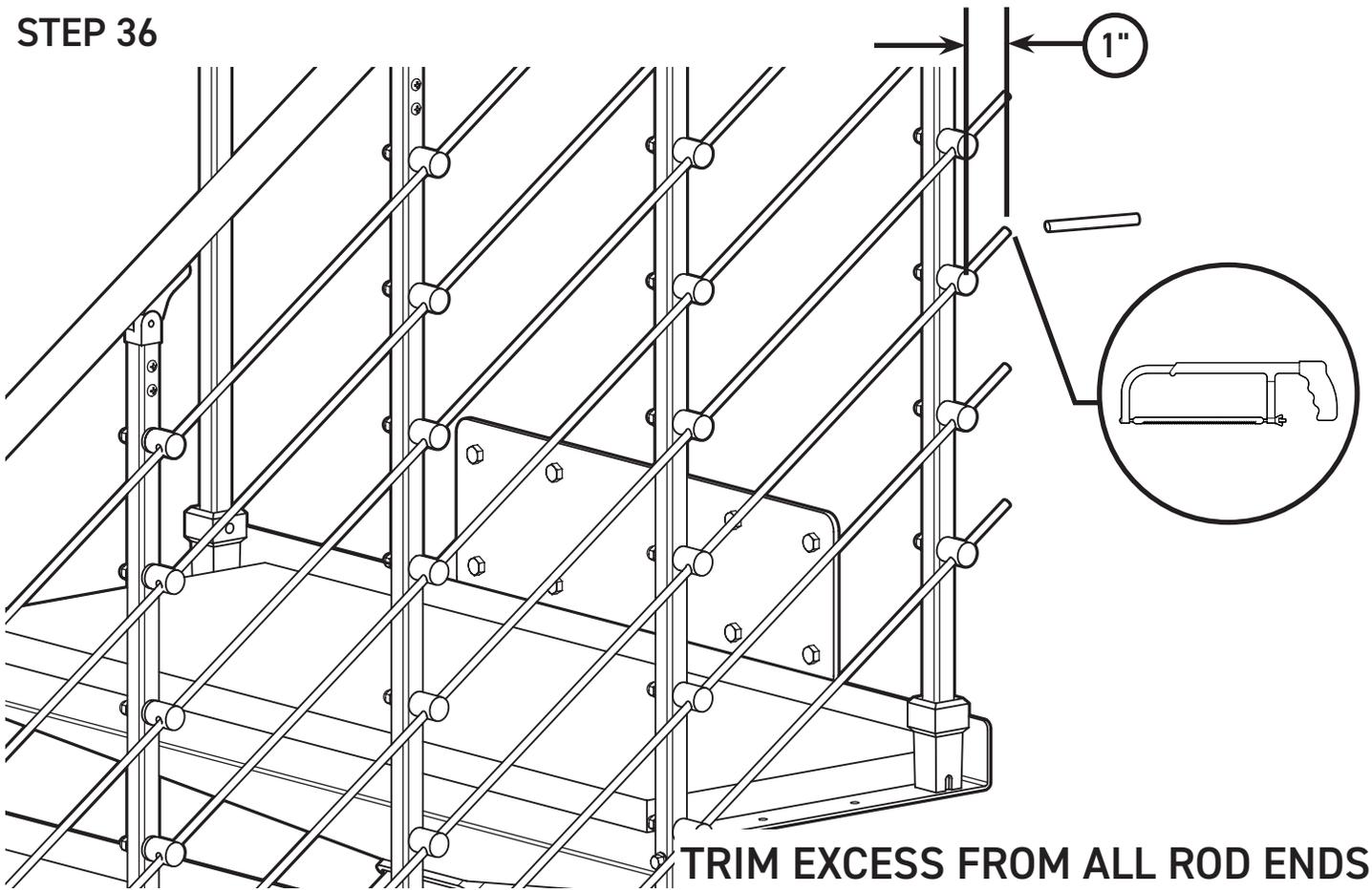


### STEP 35

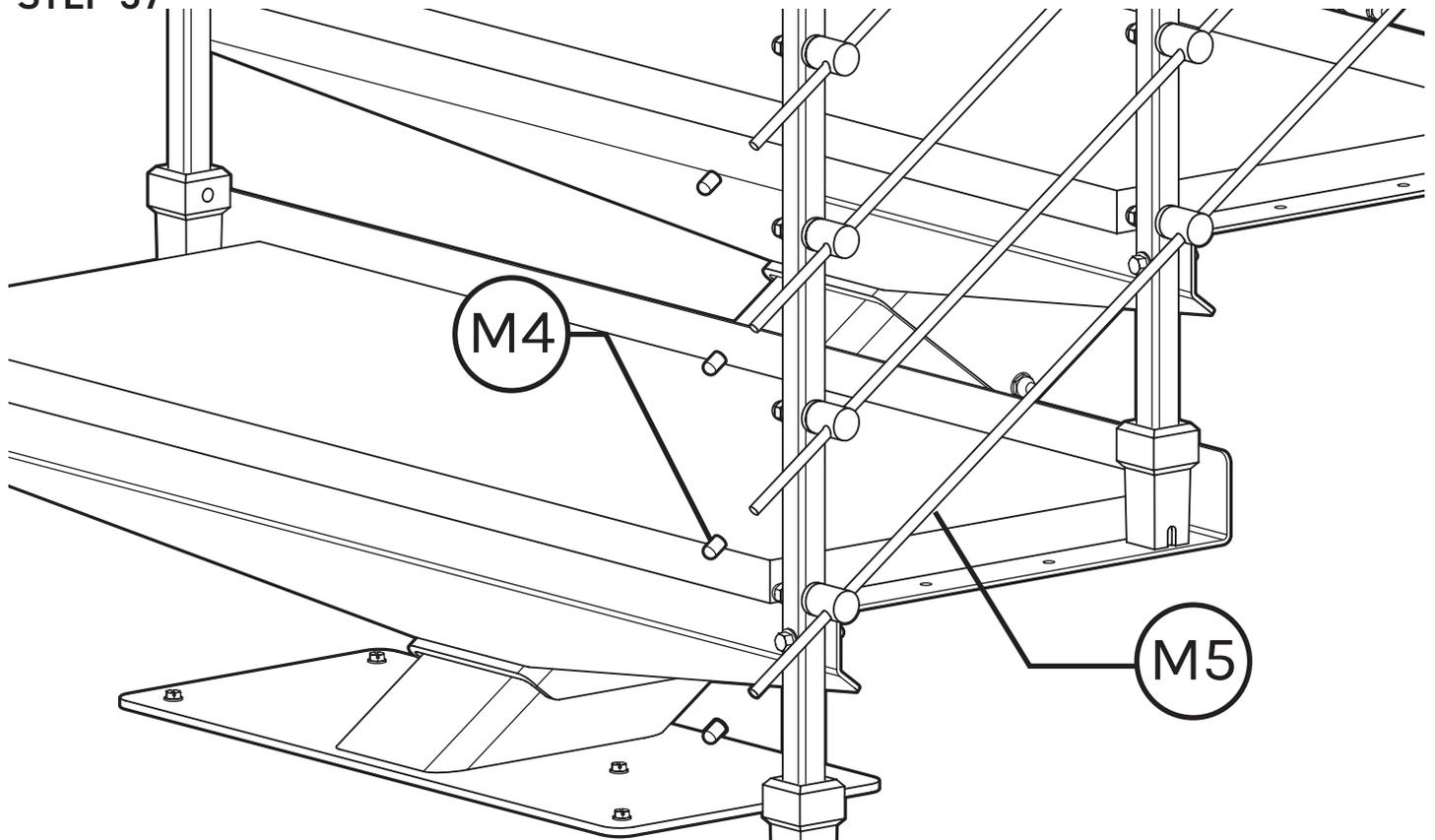


REPEAT STEPS 34-35 FOR ALL REMAINING SPINDLES

**STEP 36**



**STEP 37**



**INSTALL AT BOTH ENDS OF THE ROD**

## 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 is 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

[www.TheIronShop.com](http://www.TheIronShop.com)



Email: [info@theironshop.com](mailto: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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The Leading Manufacturer of Spiral Stair Kits®

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