

# Assembly Instructions ■

Pirouette HA Tables

Screw & Pneumatic-Adjustable - Fixed & Nesting-Top Bases

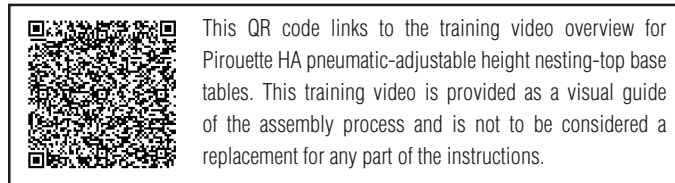
May 2024



## Pirouette HA Tables

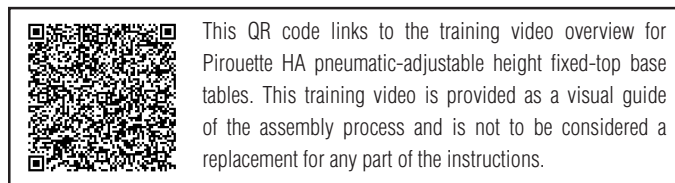
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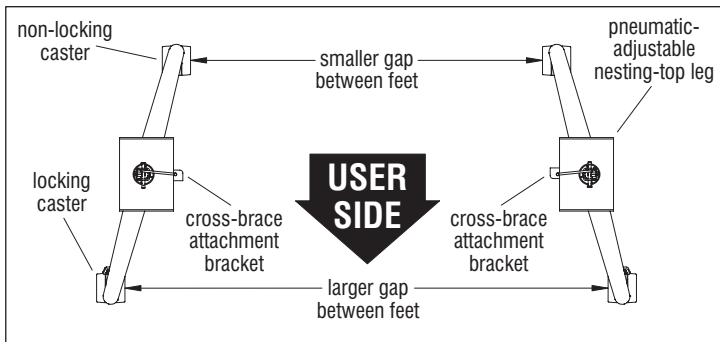
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This QR code links to the training video overview for Pirouette HA pneumatic-adjustable height nesting-top base tables. This training video is provided as a visual guide of the assembly process and is not to be considered a replacement for any part of the instructions.



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



Detail A - (top view)

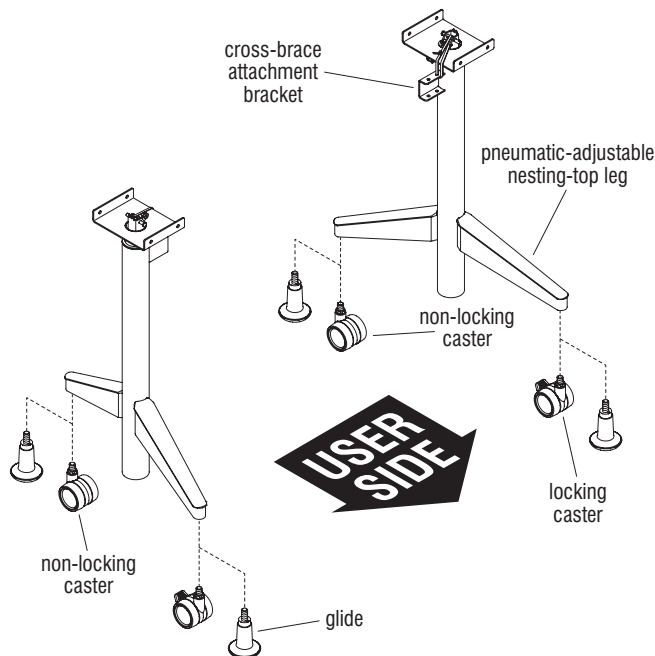


Figure 1 - (Leg Kit Item #HPN24)

## Pirouette HA Tables Overview

**Note:** The beginning of this instruction is divided into four separate sections, each explaining how to assemble a specific Pirouette HA table base type. Reference the following sections below based on the unit being assembled: Reference page 3 for pneumatic-adjustable height nesting top base tables, page 17 for pneumatic-adjustable height fixed top base tables, page 26 for screw-adjustable height nesting top base tables, or page 33 for screw-adjustable height fixed top base tables.

## Pneumatic-Adjustable Height Nesting-Top Leg Assembly (Leg Kit Item #HPN24)

1. Carefully remove contents from shipping packing and identify parts and hardware supplied. **DO NOT cut zip-ties around the nesting-table support assembly until instructed to at a later step (Page 5, Figure 4).**

**Note:** The two pneumatic-adjustable nesting-top legs, when assembled together with the cross brace between them are designed to have a smaller gap between the back feet, and have a larger gap between the feet which must be oriented the front, "user side" of the table when the bases are assembled to the tabletop.

2. Carefully stand the two pneumatic-adjustable legs to the upright position with cross-brace attachment brackets facing each other as illustrated. Orient the legs so the cross-brace attachment brackets on each leg post are inline to each other, then identify the side of the leg pair that has a larger gap between the feet. The side with the larger gap is the user side and eventually will be placed at the user side of the tabletop (Figure 1 & Detail A).

3. If the table being assembled is a caster leg unit, proceed to "Caster Installation" instructions below, otherwise proceed to "Glide Installation" instructions on this page.

## Caster Installation

**Note:** Casters are designed as locking, and non-locking. Each type must be installed to the appropriate side of a table leg, as it corresponds to either the user, or non-user side of the table. Take care and follow directions below when positioning legs for caster assembly. If casters are not installed to the proper locations, users will not be able to properly access the locks on the casters from the user side of the table, and disassembly and reassembly will be required.

4. Locate the locking and non-locking casters. Locking casters are to be installed to the front, user side of each leg, and non-locking casters are to be installed to the rear of each leg. Use a  $\frac{3}{4}$ " open end wrench to tighten casters to the foot of each leg (Figure 1).
5. Proceed to "Lower Cross-Brace Tube Installation" instructions on the next page.

## Glide Installation

6. Thread the stems of two glides into the threaded inserts at the underside of each foot by hand. Twist the glides in clockwise, fully to the bottom of the feet (Figure 1).
7. Proceed to "Lower Cross-Brace Installation" instructions on the next page.

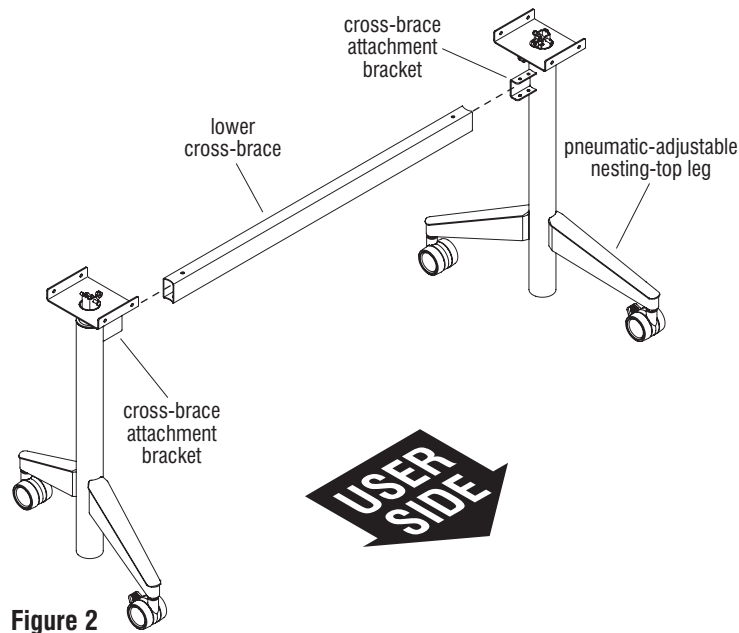
# **Pirouette HA Tables - Pneumatic-Adjustable Height Nesting-Top Base** Assembly Instructions



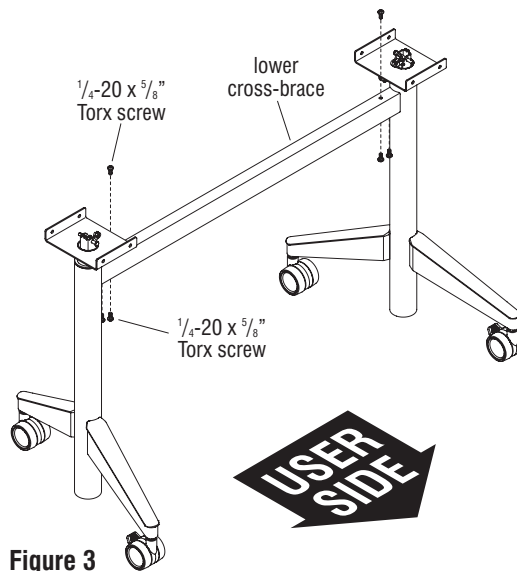
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

## **Lower Cross-Brace Installation**

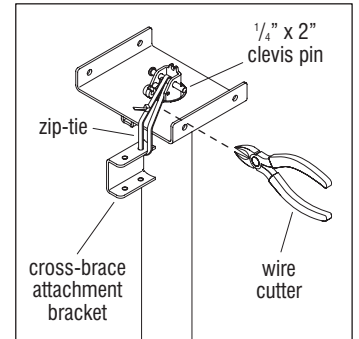
8. Cut the zip tie wrapped around the  $\frac{1}{4}$ " x 2" clevis pin and cross-brace attachment bracket on each pneumatic-adjustable leg using a wire cutter (Detail B).
9. Orient the lower cross-brace so the side with one mounting hole on each end is on the top of the brace, while the side with two mounting holes on each end is on the underside of the brace (Figure 2).
10. One leg at a time, insert the cross-brace attachment bracket into an available open end of the lower cross brace, making sure the brace side with one mounting hole on each end is on the top. If the brace is not positioned correctly for installation, disassembly and reassembly will be required (Figure 2).
11. Align the cross-brace mounting holes with the cross-brace attachment bracket mounting holes on one leg. Attach the brace to the bracket loosely, using one  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx screw on the top hole location and two  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx screws on the underside hole locations, leaving a gap between the screw heads and the brace. Repeat this process to secure the opposite leg to the brace (Figure 3 & Details C & D).
12. Make sure the gussets on the nesting table support brackets are facing each other before proceeding to "Nesting Support Assembly Installation" instructions on the next page (Details D & E).



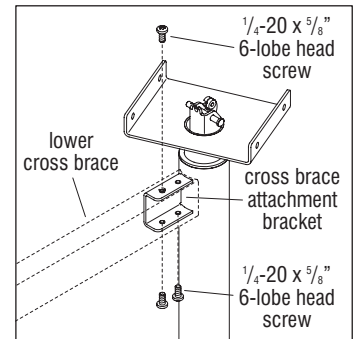
**Figure 2**



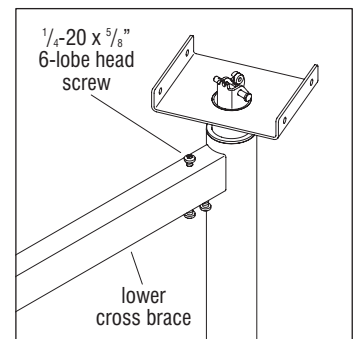
**Figure 3**



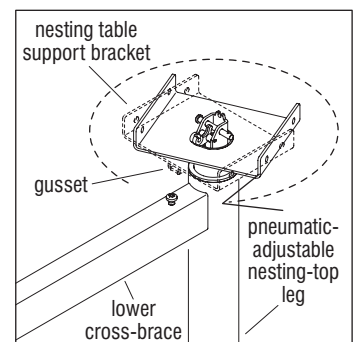
**Detail B**



**Detail C**



**Detail D**

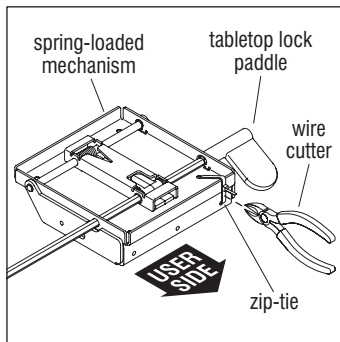


**Detail E**

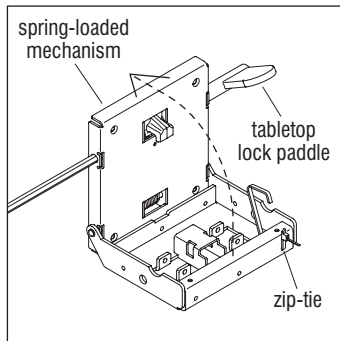




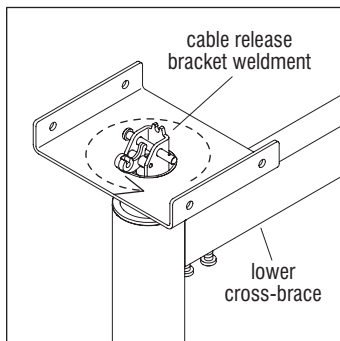
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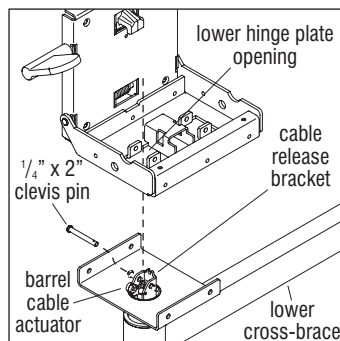
Detail F



Detail G



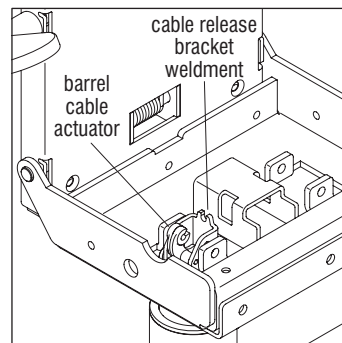
Detail H



Detail I

### Nesting Support Assembly Installation

13. Carefully place the nesting support assembly on a soft, protective surface.



Detail J

**WARNING:** The nesting support assembly consists of two spring-loaded mechanisms, one on each end of an actuating rod. Each spring-loaded mechanism is latched, and for safety is secured in the closed position with a zip-tie to prevent the mechanisms from flipping open.

14. While facing the user side of the nesting support assembly, one side at a time, press down firmly on the top of the spring-loaded mechanism on the user side of the plate, then cut the zip-tie with a wire cutter and pull it out. While holding the

mechanism down firmly, gently lift on the tabletop lock paddle, and release the holding pressure to open that side of the mechanism. Repeat the process for carefully cutting and removing the zip-tie, then actuating the tabletop lock paddle to open the mechanism at the other end of the support assembly. Take care to not actuate the tabletop lock paddles while cutting, which may release the spring-loaded mechanism quickly and cause personal injury (Figure 4 & Details F & G).

15. Rotate both cable release bracket weldments so the barrel cable actuators face away from the lower cross brace (Figure 5 & Detail H).

16. Remove a 1/4" x 2" clevis pin from the cable release brackets at each side (Figure 5 & Detail I).

**WARNING:** Use caution when handling the barrel cable actuators. If the barrel cable actuator presses down onto the cylinder release button on top of the table lift cylinder, the cylinder will rise, and must be lowered back down. If this occurs, reference "Lowering Pneumatic-Adjustable Leg Cylinder" instructions on page 48.

17. Position the opened nesting support mechanism above the leg attachment brackets, making sure the opening is facing the user side of the table assembly as illustrated. Making sure the barrel cable actuators are still facing away from the lower cross brace, carefully set the opened spring-loaded mechanisms onto the leg attachment brackets, aligning the outside lower hinge plate openings with the cable release bracket weldments. If cable actuators are not facing away from the cross brace while the lower hinge plate is set onto the leg attachment brackets, disassembly and reassembly will be required (Figure 5 & Details I & J).

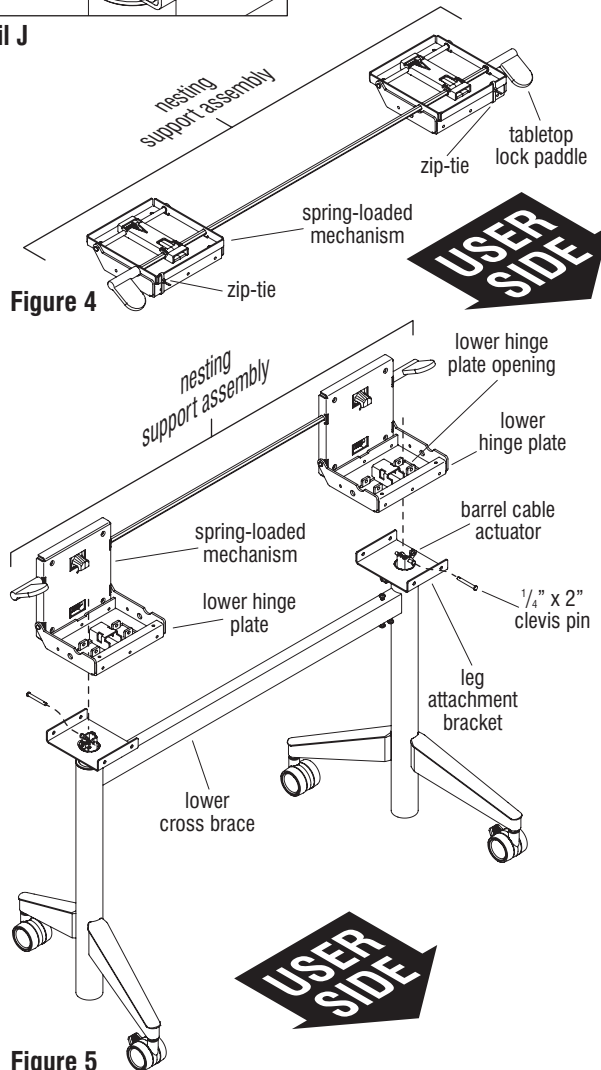


Figure 5

# ■ Pirouette HA Tables - Pneumatic-Adjustable Height Nesting-Top Base Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

## **Nesting Support Assembly Installation (cont.)**

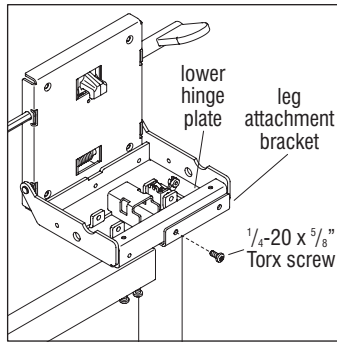
18. At one leg/side of the leg attachment bracket at a time, align the two mounting holes of the leg attachment bracket with the associated mounting holes of the lower hinge plate (Detail K). As illustrated, at the inward-most mounting hole, secure the mechanism to the attachment bracket using one  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx screw (Figure 6 & Detail K).

19. Next, locate one nesting bumper to be installed at the outermost mounting hole, one bumper at each leg/side of the spring-loaded mechanism (Detail L). Align a nesting bumper over the outermost mounting hole in the leg attachment bracket as illustrated and insert and tighten a  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx screw through the nesting bumper, through the leg attachment bracket and tighten into the lower hinge plate to 80" lb/ft of torque. Repeat the above step at the opposite leg, at the other side of the nesting support assembly (Figure 6 & Detail L).

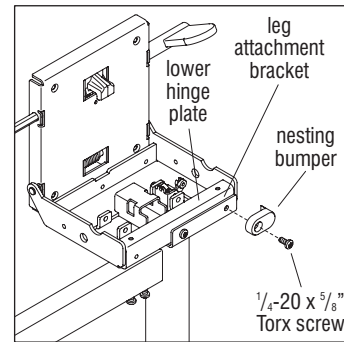
20. Repeat steps 18 through 19 on the opposite leg, at the other side of the nesting mechanism assembly.

21. To gain access to the leg attachment bracket mounting holes on the non-user side of the spring-loaded mechanisms, slightly press down on the spring-loaded mechanisms but do not fully close onto the lower hinge plates (Detail M).

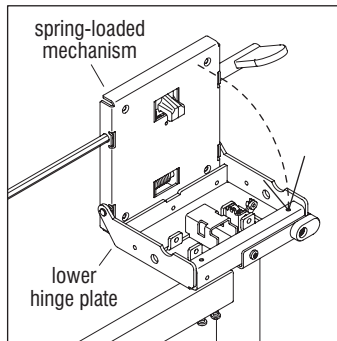
22. While continuing to hold the spring mechanisms down, on the non-user side of the nesting support assembly, secure the leg attachment brackets to the lower hinge plates using two  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx screws per bracket (Figure 7 & Detail N).



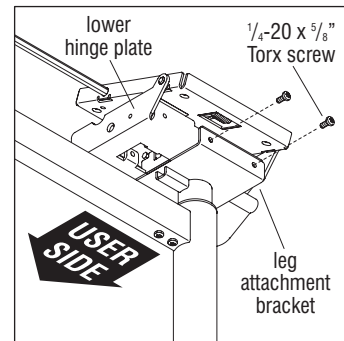
**Detail K**



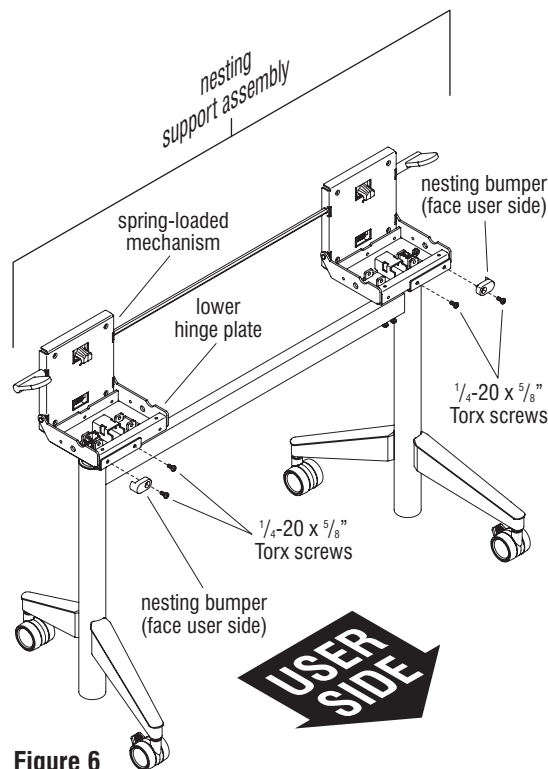
**Detail L**



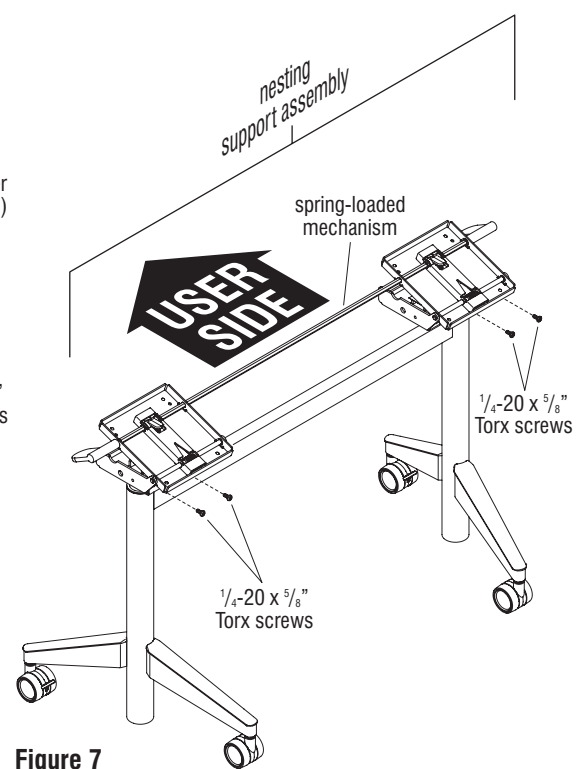
**Detail M**



**Detail N**



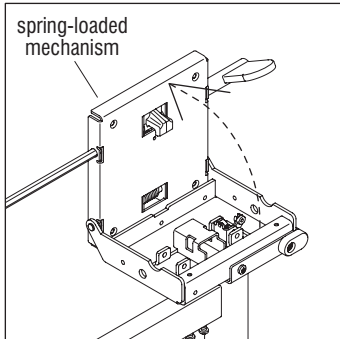
**Figure 6**



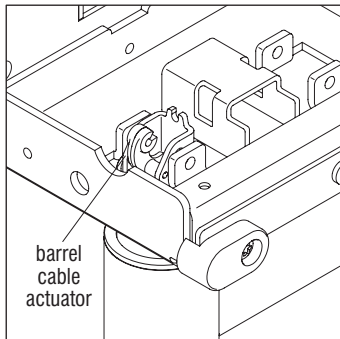
**Figure 7**



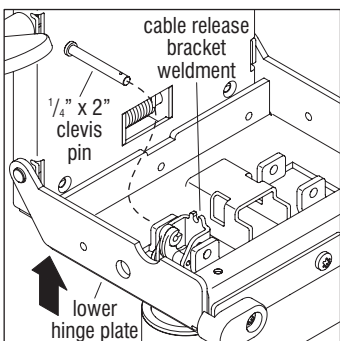
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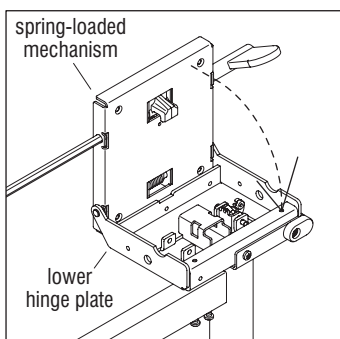
**Detail O**



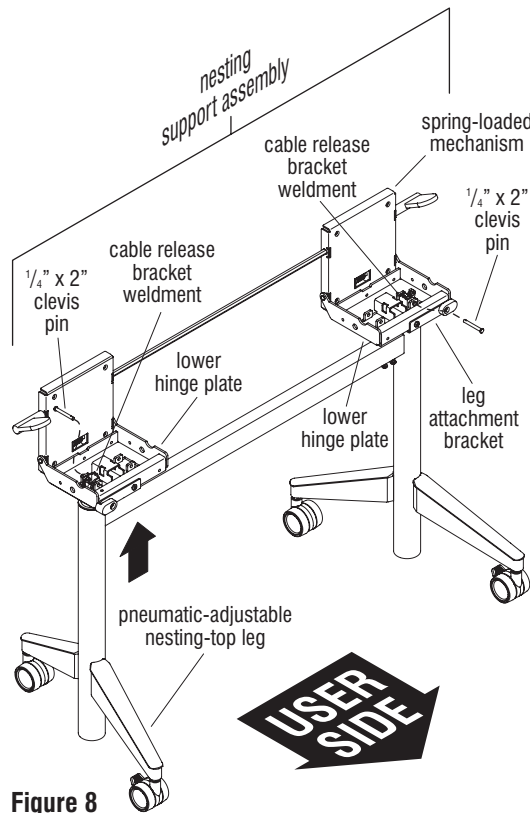
**Detail P**



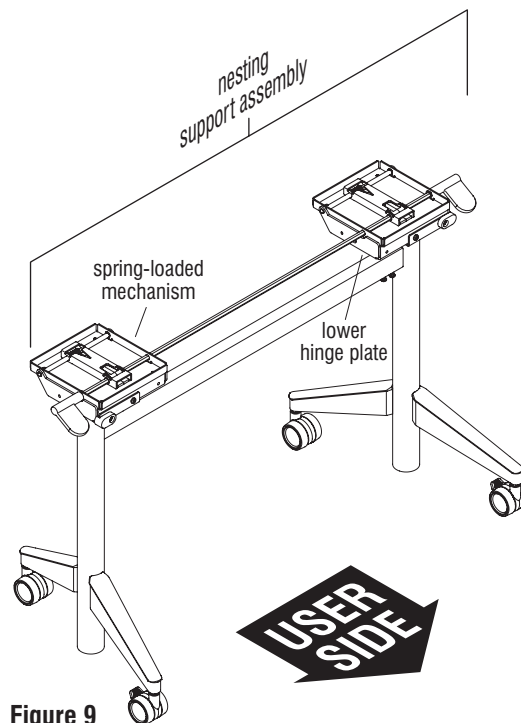
**Detail Q**



**Detail R**



**Figure 8**



**Figure 9**

23. While continuing to hold the top of one spring-loaded mechanism down, gently lessen pressure to open both sides of the spring-loaded mechanism (Figure 8 & Detail O).
24. Flip the barrel cable actuator up and forward as illustrated (Detail P).
25. One side at a time, lift one end of the nesting support assembly up and align the mounting holes on the lower hinge plate with the cable release bracket weldment mounting holes. While the end is held up, and the holes are aligned, insert the 1/4" x 2" clevis pin through the lower hinge plate and cable release bracket weldment mounting holes, preventing the barrel cable actuator from falling down. Repeat this step to install the second clevis pin on the opposite side of the nesting support assembly (Detail Q).
26. Carefully close and latch both spring-loaded mechanisms down onto the lower hinge plates (Figure 9 & Detail R).

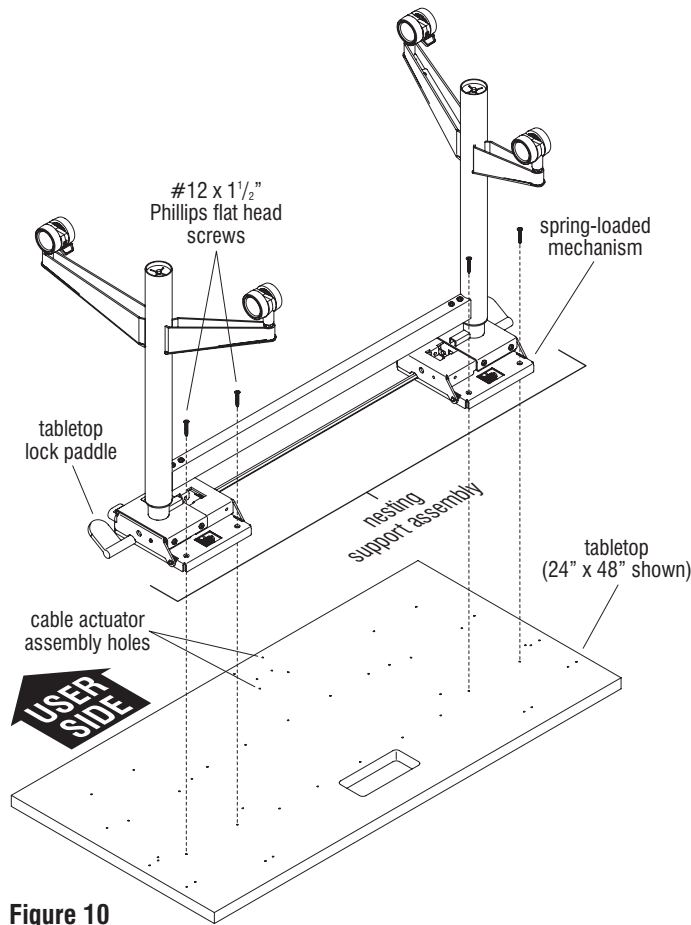
# **Pirouette HA Tables - Pneumatic-Adjustable Height Nesting-Top Base** Assembly Instructions



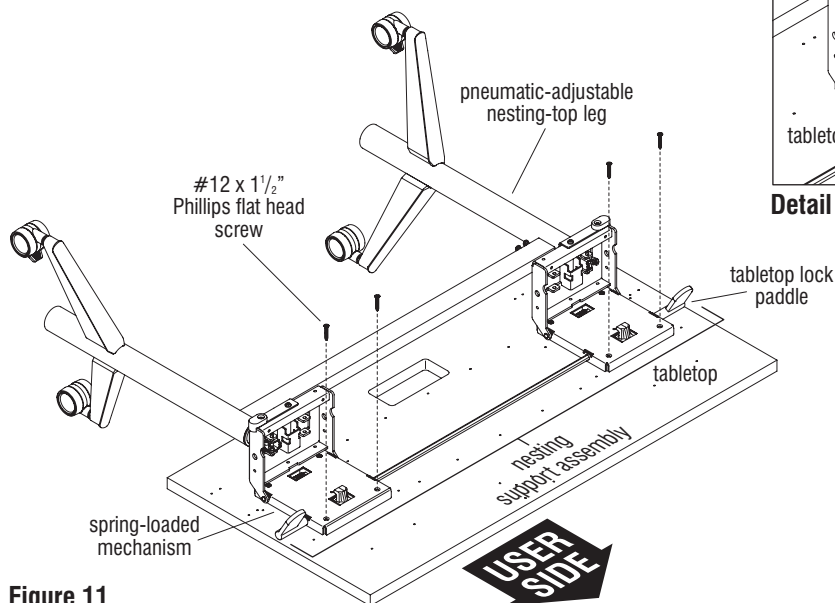
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## **Nesting Support Assembly Installation (cont.)**

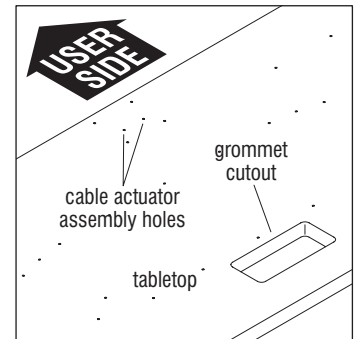
27. Carefully place the tabletop upside down on a soft, protective surface. Take note that the "user side" of the tabletop has pilot holes for the cable actuator assembly near the front edge, at the center. Carefully position the nesting support assembly onto the tabletop with the tabletop lock paddles and wider spread of the legs oriented to be facing the user side of the table, as illustrated (Figure 10 & Detail S).
28. Align the two mounting holes on the back of each spring-loaded mechanism of the nesting support assembly to the corresponding pre-drilled holes at the underside of the tabletop, then secure into each pre-drilled hole a #12 x 1 1/2" Phillips flat head screw. Do not over-tighten (Figure 10 & Detail T).
29. Press the tabletop lock paddles down and gently lower the pneumatic-adjustable legs down to gain access to the front spring-loaded mechanism mounting holes (Figure 11).
30. Align the two front mounting holes on each spring-loaded mechanism of the nesting support assembly with the mounting holes on the tabletop underside and secure using #12 x 1 1/2" Phillips flat head screws. Do not over-tighten (Figure 11 & Detail U).



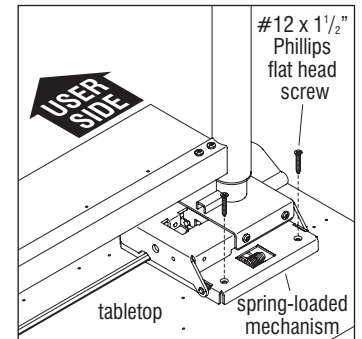
**Figure 10**



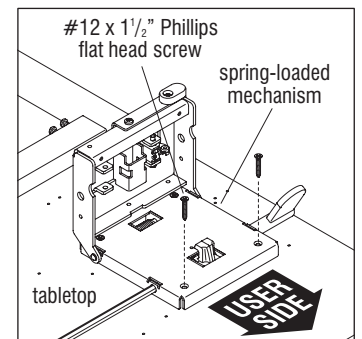
**Figure 11**



**Detail S**



**Detail T**



**Detail U**



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#### Cable Trough Installation

31. Position the cable trough over the tabletop's actuating rod as illustrated, with the two smaller rectangular openings in the trough facing the user side of the table. Align the cable trough mounting holes with the pre-drilled holes in the underside of the tabletop, and secure using ten #10 x  $\frac{5}{8}$ " Phillips tapping screws. Do not over-tighten (Figure 12).
32. Carefully turn the table to the upright position.

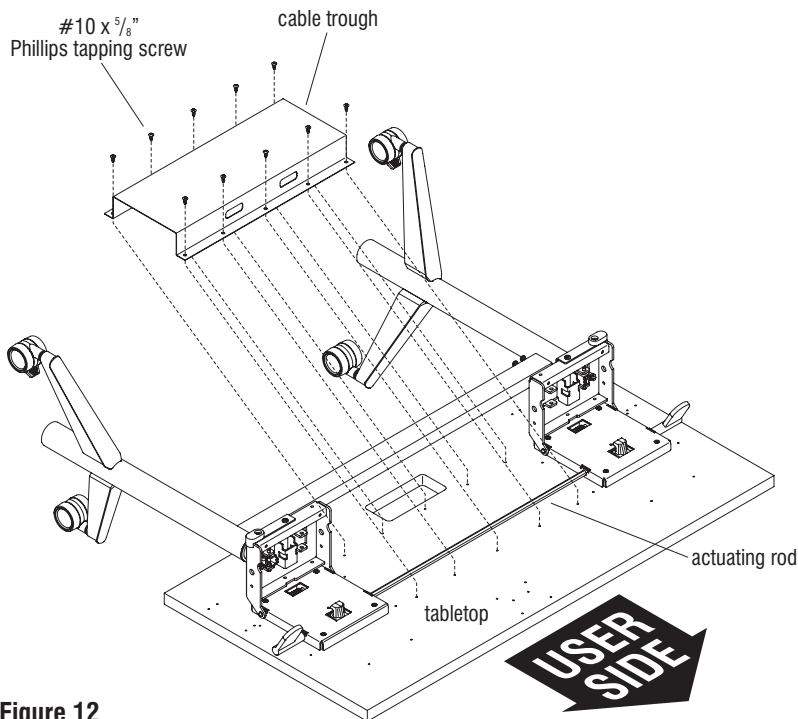


Figure 12



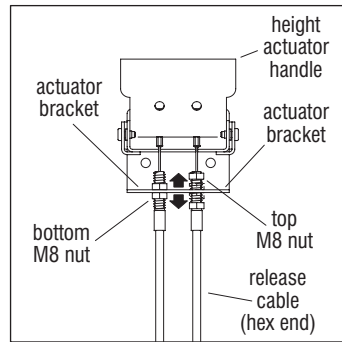
# ■ Pirouette HA Tables - Pneumatic-Adjustable Height Nesting-Top Base Assembly Instructions



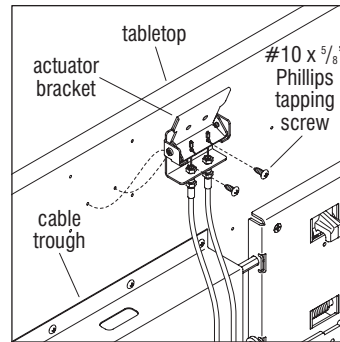
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## **Cable Actuator Installation**

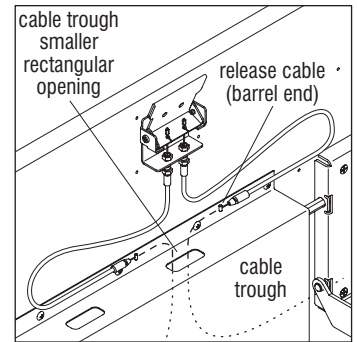
33. With the table on its feet in the upright position, and if the table is not rotated up, press up on a tabletop lock paddle to rotate the tabletop into the vertical nesting position (Figure 13).
34. Locate the cable actuator assembly with two release cables attached. At the actuator bracket, twist each top M8 nut up onto the top threads of the release cable housing (hex end), only enough to hold the top of each cable housing in place on the actuator bracket. Once each top M8 nut has been adjusted, thread the bottom M8 nuts all the way down on each cable housing threads (Detail V).
35. Align the mounting holes of the cable actuator assembly with the pre-drilled holes on the underside of the tabletop and secure using two #10 x 5/8" Phillips tapping screws (Figure 13 & Detail W).
36. Guide the barrel end of each cable into the smaller rectangular opening on the cable trough, closest to the cable actuator assembly. Then route the barrel end of the release cable in the leftmost hole on the actuator bracket out the left end of the cable trough, and the rightmost cable's barrel end out the right end of the cable trough (Figure 13 & Details X & Y).



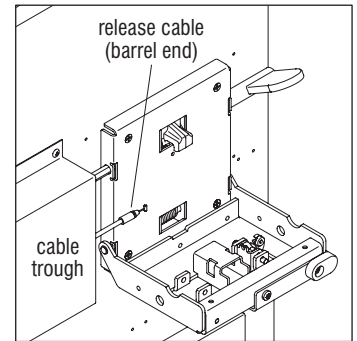
**Detail V**



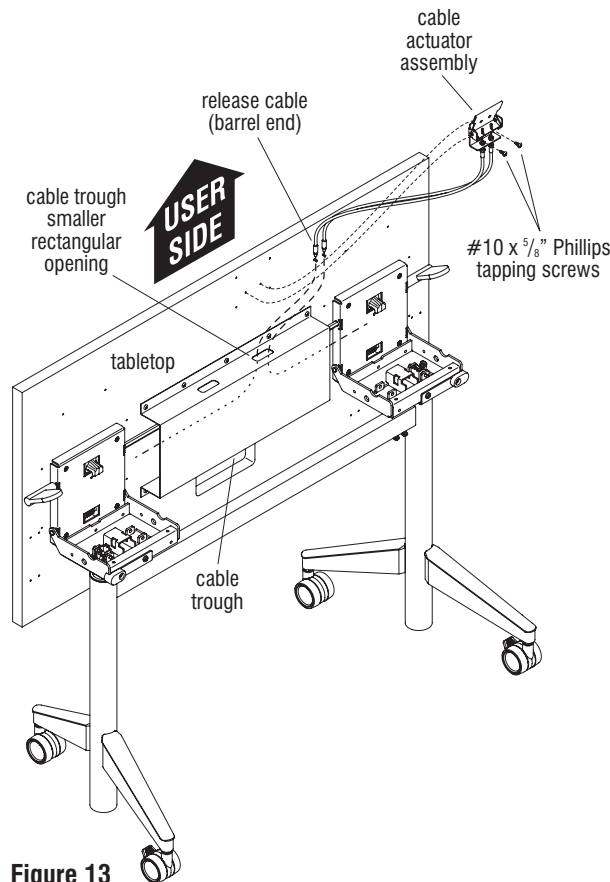
**Detail W**



**Detail X**



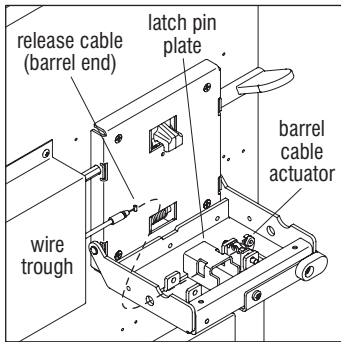
**Detail Y**



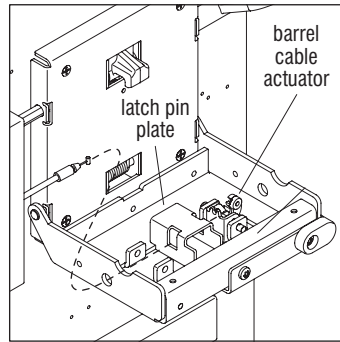
**Figure 13**



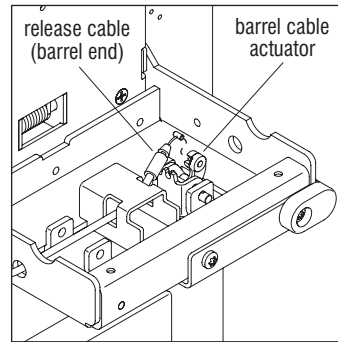
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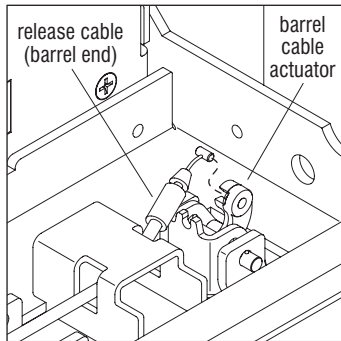
**Detail Z**



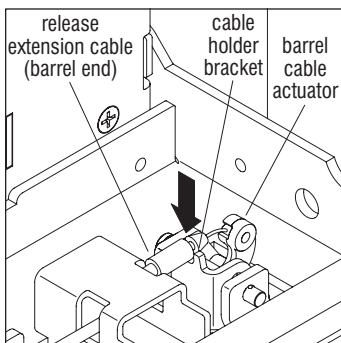
**Detail A2**



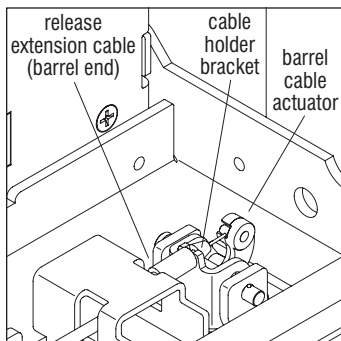
**Detail B2**



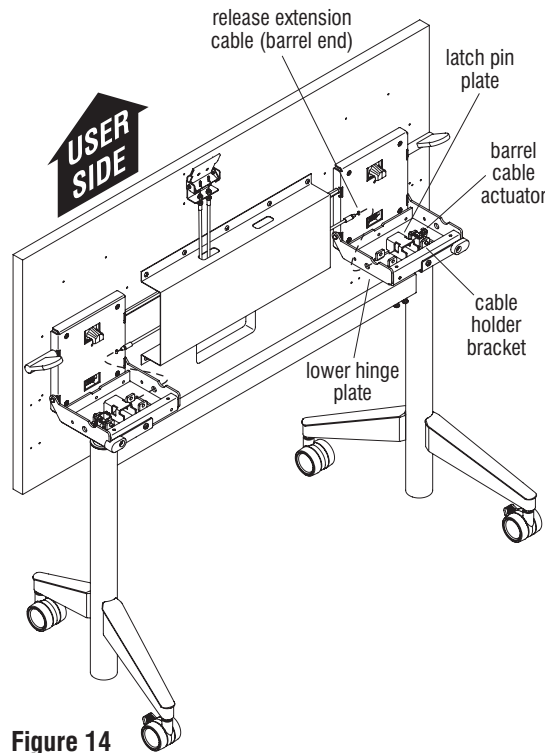
**Detail C2**



**Detail D2**



**Detail E2**



**Figure 14**

37. Route the barrel end of one release cable through the round hole located on the side of the lower hinge plate, then through the two rectangular openings on the latch pin plates, until the barrel end reaches the barrel cable actuator (Figure 14 & Details Z & A2).
38. Insert the barrel end of the release cable into the housing slot on the barrel cable actuator (Details B2 & C2).
39. With the barrel end engaged in the barrel cable actuator, press the plastic end of the release extension cable into the cable holder bracket by snapping the notch of the cable's plastic end into the cable holder bracket as illustrated. If the release cable will not snap into the cable holder bracket, tap lightly with a rubber mallet until the plastic end snaps into the holder (Details D2 & E2).
40. Repeat steps 37 through 39 to secure the second release cable to the opposite-side barrel cable actuator and cable holder bracket.



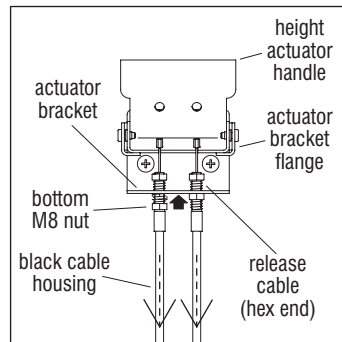
# ■ Pirouette HA Tables - Pneumatic-Adjustable Height Nesting-Top Base Assembly Instructions



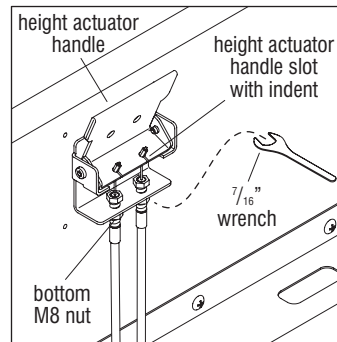
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

## Cable Actuator Installation (cont.)

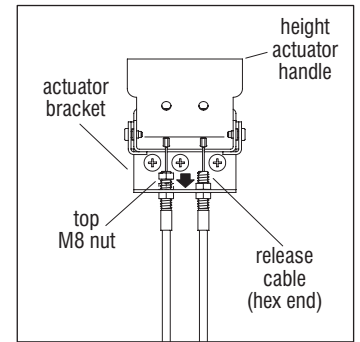
41. Gently pull down on each black cable housing under the cable actuator assembly to assure the hex ends are nested snugly in the actuator handle, and the actuator handle is also pulled down tight to the top flanges of the actuator bracket. Then twist each bottom M8 nut upward, finger-tight against the actuator bracket, to assure the cable's hex end is snug and nested in the conical indent of the handle (Detail F2).
42. After the bottom M8 nuts are finger tight to the actuator bracket, tighten each bottom nut an **additional one-quarter to one-half of a turn using the  $\frac{7}{16}$ " wrench** provided (Detail G2).
43. Next, twist each top M8 nut downward, finger tight to the actuator bracket. Then, one nut at a time, using the first  $\frac{7}{16}$ " wrench provided, tighten each top nut one-quarter to one-half of a turn to secure (Details H2 & I2).
44. Position the pneumatic cover above the barrel cable actuator. Nest the cover's tab into the latch pin plate rectangular opening, then set the cover into the lower hinge plate (Figure 15 & Details J2 & K2).
45. Align the mounting hole in the lower hinge plate with the hole in the actuator cover and secure the cover to the side of the plate using a  $8-32 \times \frac{3}{8}$ " screw. Do not overtighten (Detail K2).



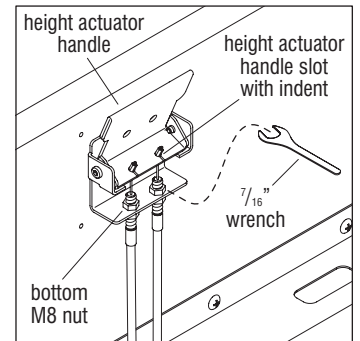
Detail F2



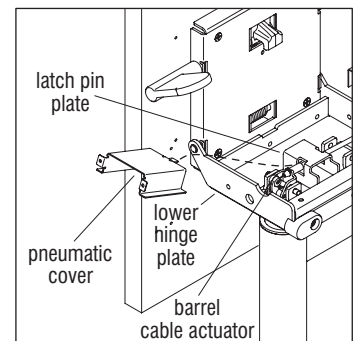
Detail G2



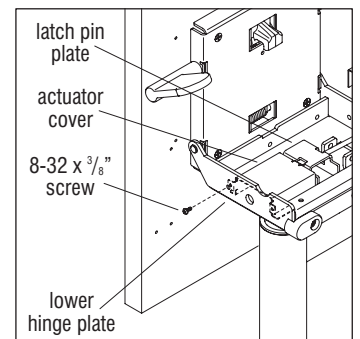
Detail H2



Detail I2



Detail J2



Detail K2

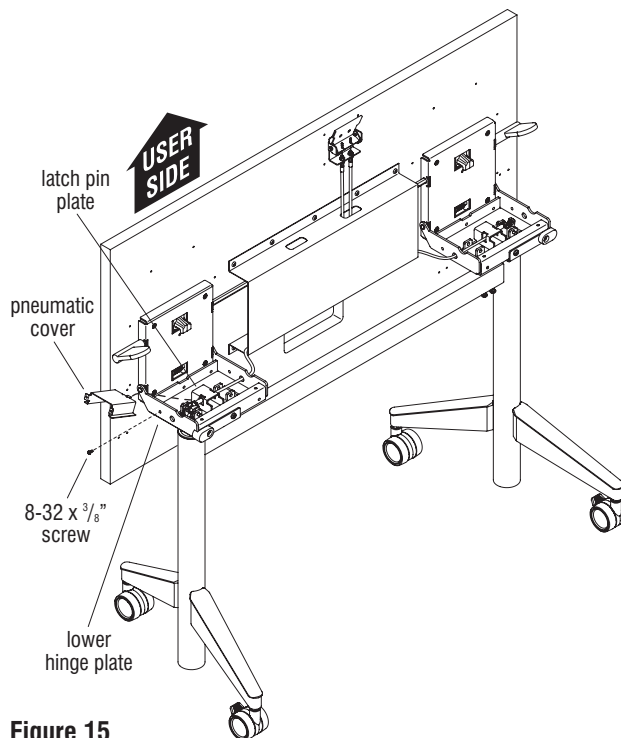
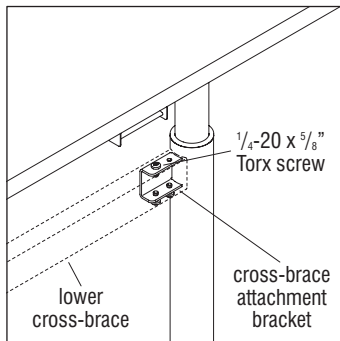


Figure 15



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



Detail L2

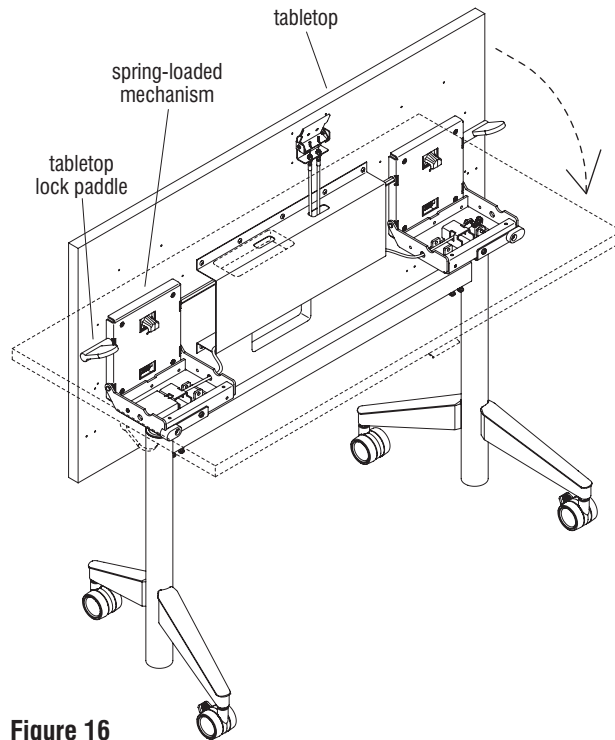


Figure 16

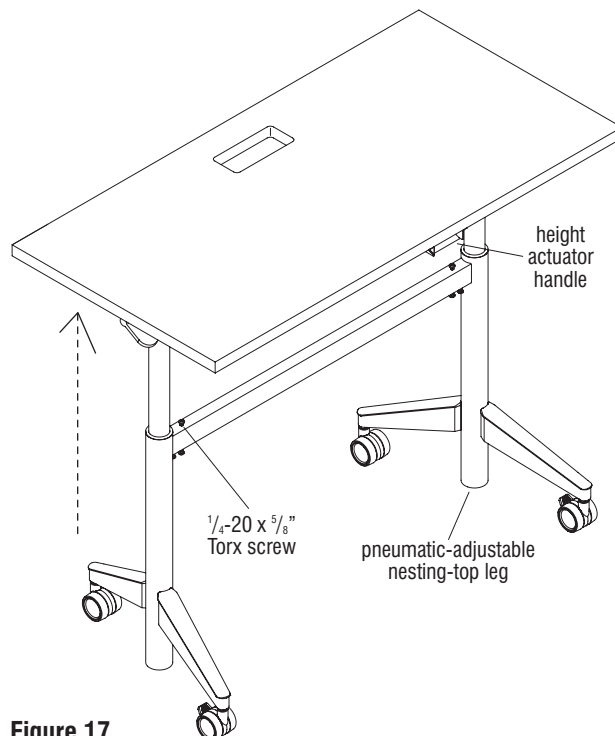


Figure 17

46. Carefully close the spring-loaded mechanisms by folding the tabletop down from the nesting position to be level (Figure 16).
47. Locate the height actuator handle at the front, user side of the table and raise the table height enough to gain access to the top holes on each end of the lower cross-brace (Figure 17).
48. Secure lower cross-brace to the cross-brace attachment bracket by tightening one  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx screw on the top hole location at each end, then fully tightening the two  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx head screws on the underside of the lower cross brace, at each end (Detail L2).

# ■ Pirouette HA Tables - Pneumatic-Adjustable Height Nesting-Top Base

## Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

### Testing Table Height-Adjustability

#### Test 1 - Automatic Height Test

49. Locate the height actuator handle at the front, user side of the table and press the handle up to automatically raise the table height (Figure 18). Then press the handle again, apply pressure down on the tabletop to test that it lowers evenly. If the table raises and lowers evenly, no additional adjustment is required. If the table does not automatically raise when the handle is pressed, one or both cable's hex ends are loose, and require additional adjustment to add more tension. If adjustments are required, proceed to step 50 below. If no adjustments are required, proceed to "Test 2 - Leg Stability Test" instructions on the next page.

50. Begin "Test 1" adjustments by lifting a tabletop lock paddle and rotate the tabletop into the nesting position to gain access to the height actuator handle and cables (Figure 19). Inspect the hex ends of both cables in the actuator handle slots and conical indent and identify if one or more are not nested properly, and handle is not tight (Detail M2). Loosen the appropriate top M8 nut using the  $\frac{7}{16}$ " wrench provided while pulling down on the black cable housing and twist the nut up as much as required. Holding the cable housing down, twist the bottom nut up finger tight, enough to assure that the hex cable end is seated correctly into the conical indent of the actuator handle, and the handle is tight down against the actuator bracket. Use the  $\frac{7}{16}$ " wrench to turn the bottom M8 nut one-quarter to one-half of a turn more to tighten. (Detail N2). Check to assure the cables are tight, or repeat the above process.

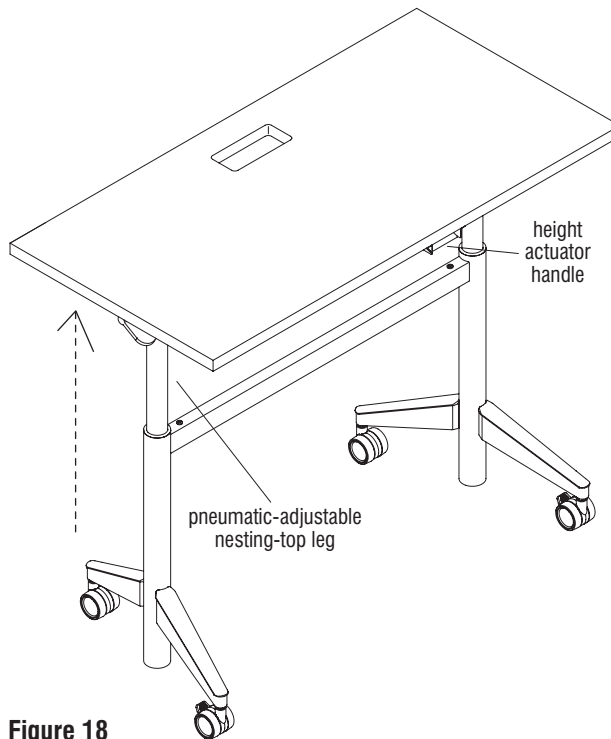
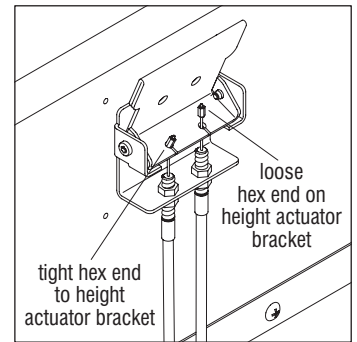
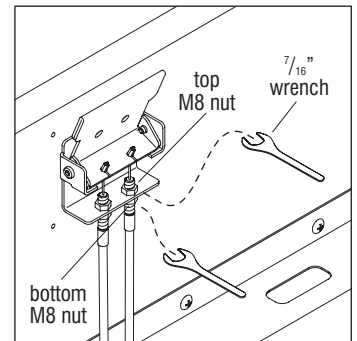


Figure 18



Detail M2



Detail N2

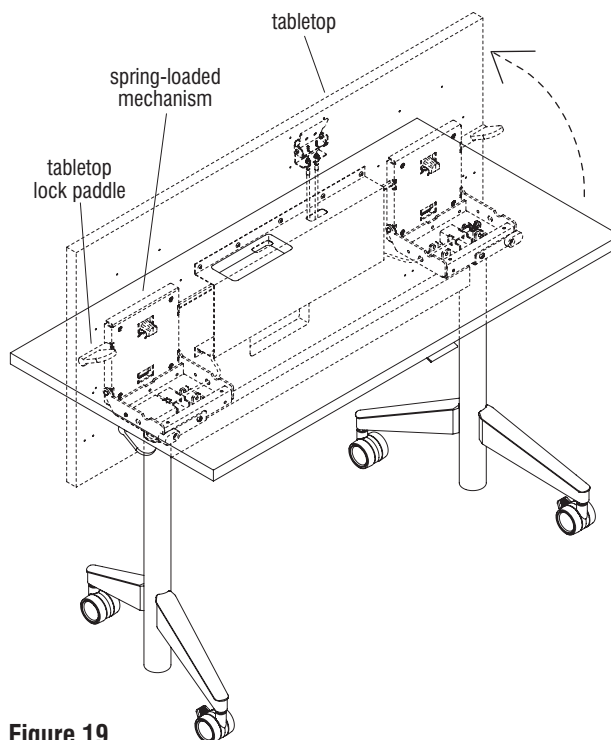
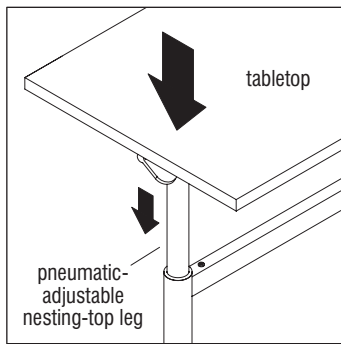


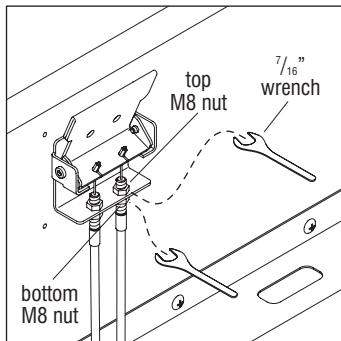
Figure 19



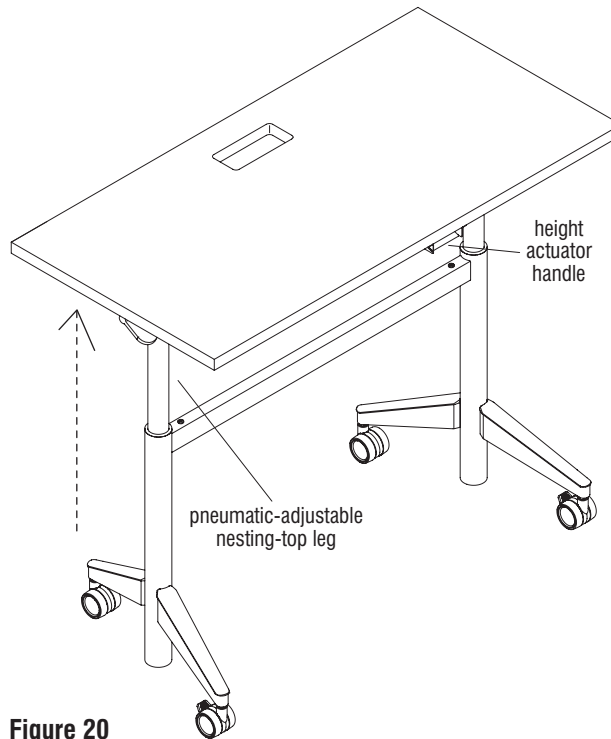
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



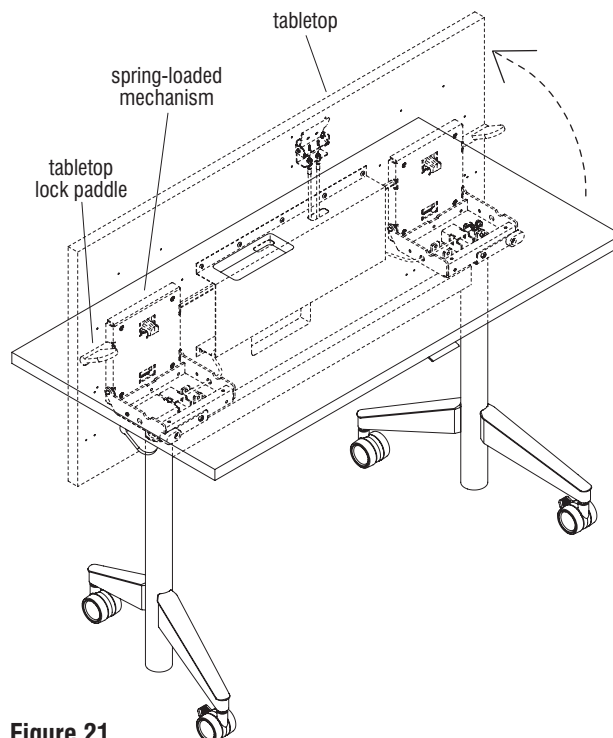
**Detail O2**



**Detail P2**



**Figure 20**



**Figure 21**

## Test 2 - Leg Stability Test

51. Locate the height actuator handle at the front, user side of the table and press the actuator handle up, to automatically raise the table height at least four inches (Figure 20). One side at a time, push down on the raised tabletop over each side's pneumatic-adjustable leg (Detail O2). If pressing down on each end does not cause the tabletop to lower at one of the ends, no adjustment is needed. If the tabletop lowers on one side with pressure, one or more cables is adjusted too tight, and adjustment is required. If adjustments are required, proceed to step 52 below. If no adjustments are required, proceed to the next page.
52. Begin "Test 2" adjustments by lifting a lock paddle and rotate the tabletop into the nesting position to gain access to the height actuator handle and cables (Figure 21). At the side of the table which could be pressed down with the table raised, locate the appropriate cable housing and M8 nuts to lessen that cable tension. Using the  $\frac{7}{16}$ " wrench, loosen the bottom M8 nut one-quarter to one-half of a turn, or until tension releases. Then, twist the top M8 nut down finger tight and use the  $\frac{7}{16}$ " wrench to turn the nut one-quarter to one-half turn more to tighten it (Detail P2). Rotate the tabletop down to the use position, press the height actuator handle to raise the table, and test the side that was adjusted to see if it lowers with pressure. If it does not lower, no more adjustment is required, but if it does lower, repeat step 52 above.

## ■ Pirouette HA Tables - Pneumatic-Adjustable Height Nesting-Top Base

### Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

#### Actuator Cover Installation

53. Lift one tabletop lock paddle and open the table to the nesting position (Figure 22).
54. At the underside of the tabletop, position the actuator cover above the cable actuator assembly. Secure the cover to the tabletop using four #10 x 5/8" Phillips tapping screws (Figure 23).
55. If the table being assembled will receive power, proceed to "Power Module Overview" instructions on page 37. If the table being assembled does not require power, but requires a grommet, proceed to "Grommet Overview" instructions on page 42. If the table being assembled does not require power or grommets but requires a modesty panel, proceed to "Modesty Panel Installation" instructions on page 46. If the table being assembled does not require power, grommet or a modesty panel, move the table to the final location of use.

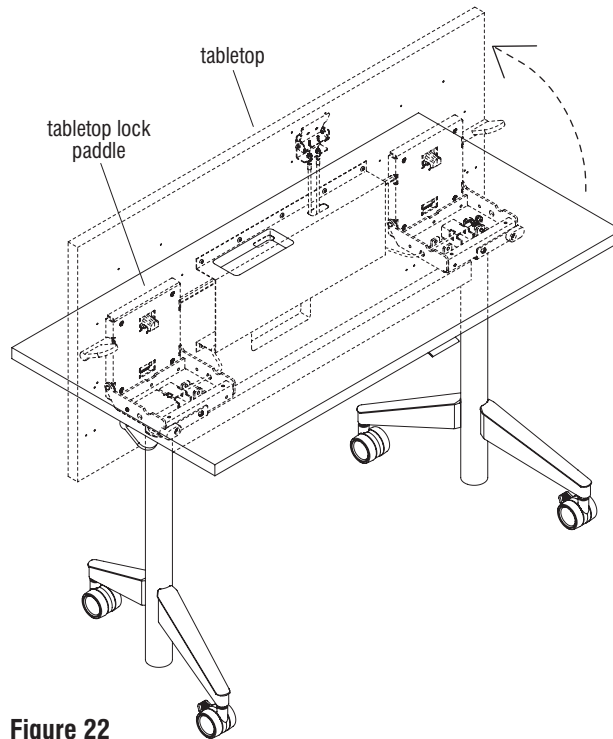


Figure 22

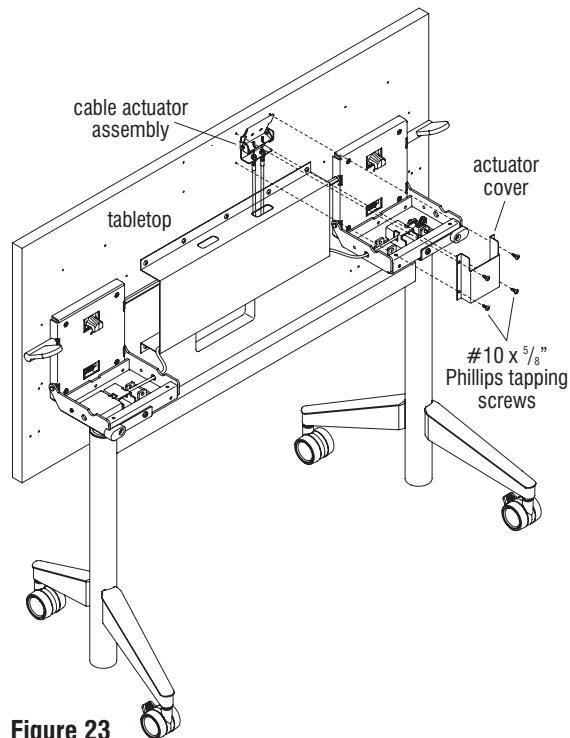


Figure 23



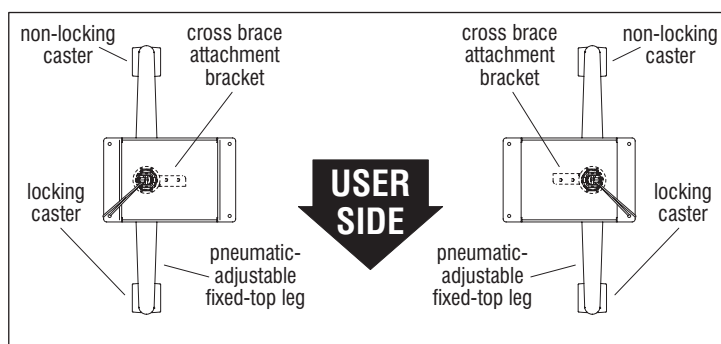
This QR code links to the training video overview for Pirouette HA pneumatic-adjustable height fixed-top base tables. This training video is provided as a visual guide of the assembly process and is not to be considered a replacement for any part of the instructions.



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

### Pneumatic-Adjustable Height Fixed-Top Leg Assembly (Leg Kit Item #HPF24)

1. Carefully remove contents from shipping packing and identify parts and hardware supplied.



Detail A - (top view)

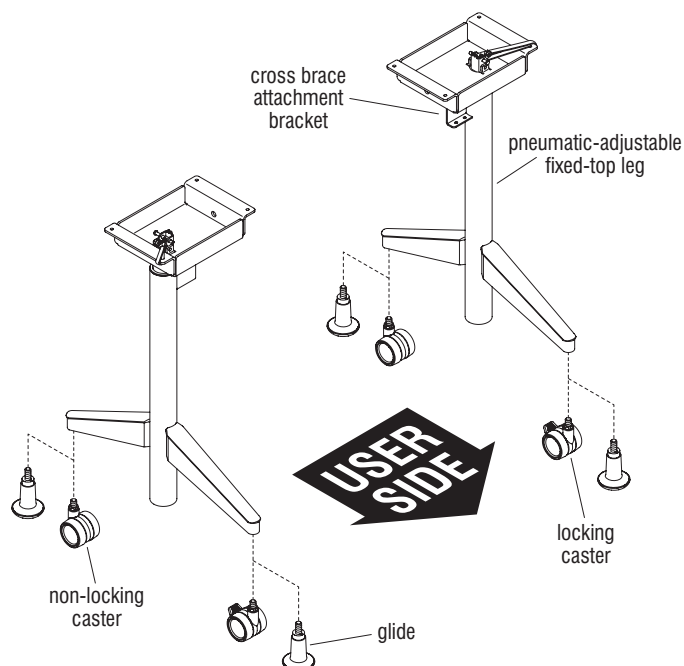


Figure 1 - (Leg Kit Item #HPF24)

2. Carefully stand the two pneumatic-adjustable fixed-top legs to the upright position with cross-brace attachment brackets facing each other as illustrated. Orient the legs so the cross-brace attachment brackets on each leg post are inline to each other (Figure 1 & Detail A).
3. If the table being assembled is a caster leg unit, proceed to "Caster Installation" instructions below, otherwise proceed to "Glide Installation" instructions on this page.

### Caster Installation

**Note:** Casters are designed as locking, and non-locking. Each type must be installed to the appropriate side of a table leg, as it corresponds to either the user, or non-user side of the table. Take care and follow directions below when positioning legs for caster assembly. If casters are not installed to the proper locations, users will not be able to properly access the locks on the casters from the user side of the table, and disassembly and reassembly will be required.

4. Choose which side of the legs will be designated as the eventual user side of the table. Locate the locking and non-locking casters. Locking casters are to be installed to the front, user side of each leg, and non-locking casters are to be installed to the rear of each leg. Use a  $\frac{3}{4}$ " open end wrench to tighten casters to the foot of each leg (Figure 1).
5. Proceed to "Lower Cross-Brace Tube Installation" instructions on the next page.

### Glide Installation

6. Thread the stems of two glides into the threaded inserts at the underside of each foot by hand. Twist the glides in clockwise, fully to the bottom of the feet (Figure 1).
7. Proceed to "Lower Cross-Brace Installation" instructions on the next page.



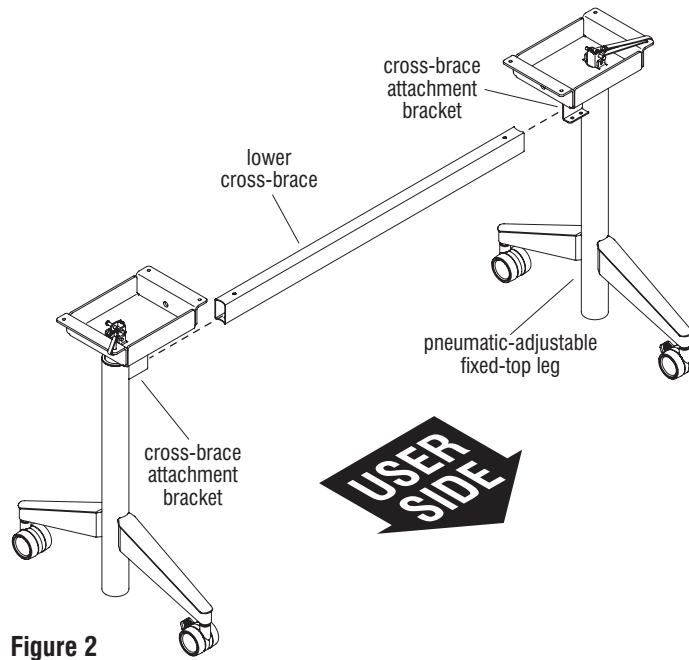
# ■ Pirouette HA Tables - Pneumatic-Adjustable Height Fixed-Top Base Assembly Instructions



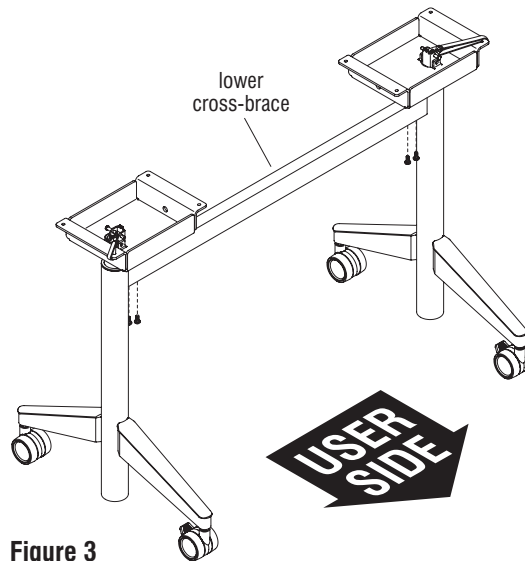
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

## **Lower Cross-Brace Installation**

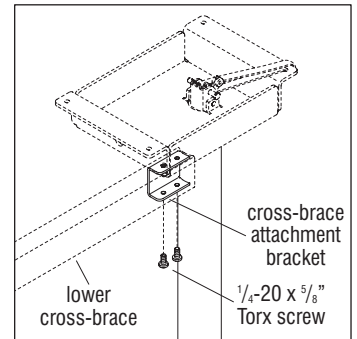
8. Orient the lower cross-brace so the side with one mounting hole on each end is on the top of the brace, while the side with two mounting holes on each end is on the underside of the brace (Figure 2).
9. One leg at a time, insert the cross-brace attachment bracket into an available open end of the lower cross brace, making sure the brace side with one mounting hole on each end is on the top. If the brace is not positioned correctly for installation, disassembly and reassembly will be required (Figure 2).
10. Align the cross-brace mounting holes with the cross-brace attachment bracket mounting holes on one leg. Attach the brace to the bracket loosely, using two  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx screws on the underside hole locations, leaving a gap between the screw heads and the brace. Repeat this process to secure the opposite leg to the brace (Figure 3 & Details B & C).
11. Cut zip-tie wrapped around the  $\frac{1}{4}$ " x 2" clevis pin and tabletop mounting bracket on each pneumatic-adjustable leg using a wire cutter (Detail D).



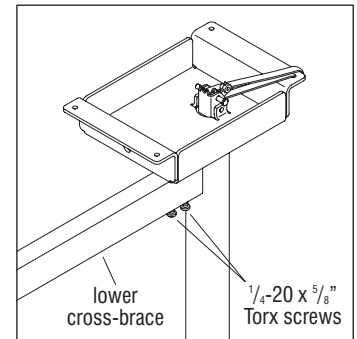
**Figure 2**



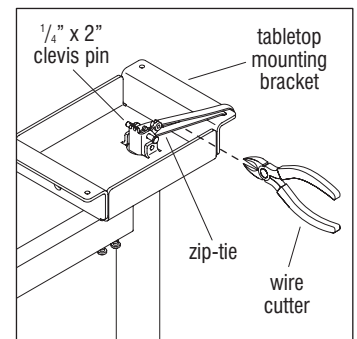
**Figure 3**



**Detail B**



**Detail C**

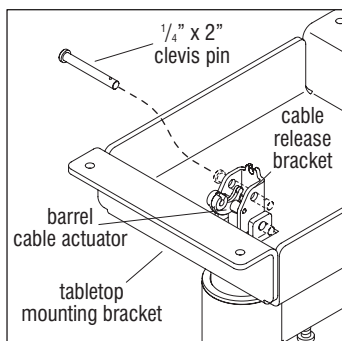


**Detail D**

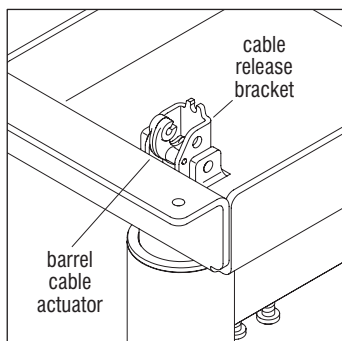




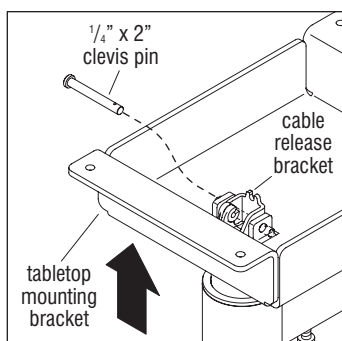
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



Detail E



Detail F



Detail G

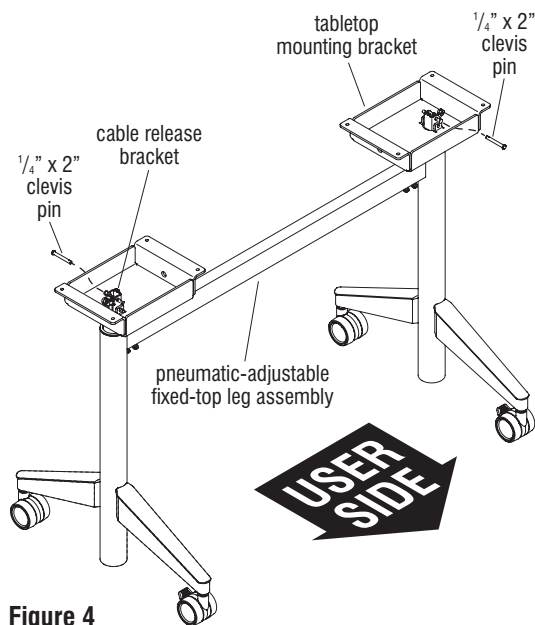


Figure 4

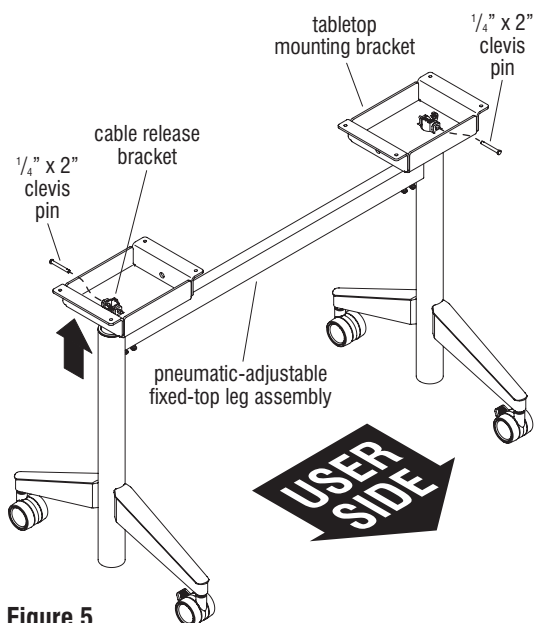


Figure 5

### Pneumatic-Adjustable Fixed-Top Leg Assembly Installation

12. Remove a  $\frac{1}{4}$ " x 2" clevis pin from each cable release bracket housed inside the tabletop mounting brackets (Figure 4 & Detail E).

**WARNING:** Use caution when handling the barrel cable actuators. If the barrel cable actuator presses down onto the cylinder release button on top of the table lift cylinder, the cylinder will rise, and must be lowered back down. If this occurs, reference "Lowering Pneumatic-Adjustable Leg Cylinder" instructions on page 48.

13. Flip the barrel cable actuator up and forward as illustrated (Detail F).
14. One side at a time, lift one tabletop mounting bracket up and align the mounting holes on the bracket with the cable release bracket mounting holes. While the tabletop mounting bracket is held up, and the holes are aligned, insert the  $\frac{1}{4}$ " x 2" clevis pin through the tabletop mounting bracket and cable release bracket mounting holes. Repeat this step to install the second clevis pin on the opposite side of the pneumatic-adjustable fixed-top leg assembly (Figure 5 & Detail G).

## ■ Pirouette HA Tables - Pneumatic-Adjustable Height Fixed-Top Base

### Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

#### Pneumatic-Adjustable Fixed-Top Leg Assembly Installation (cont.)

15. Carefully place the tabletop upside down on a soft, protective surface. Take note that the “user side” of the tabletop has pilot holes for the cable actuator assembly near the middle, front edge. Carefully position the non-user side of the pneumatic-adjustable fixed-top leg assembly onto the tabletop as illustrated (Figure 6).
16. Position the cable trough over the tabletop underside as illustrated, with the two smaller rectangular openings in the trough facing the user side of the table. Align the cable trough mounting holes with the pre-drilled holes in the underside of the tabletop (Figure 7).

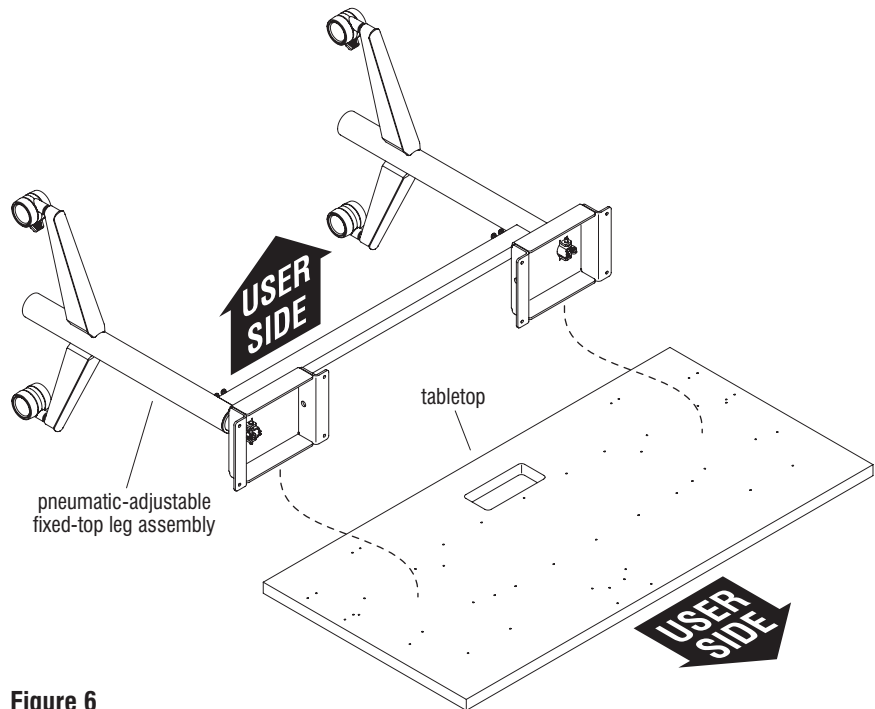


Figure 6

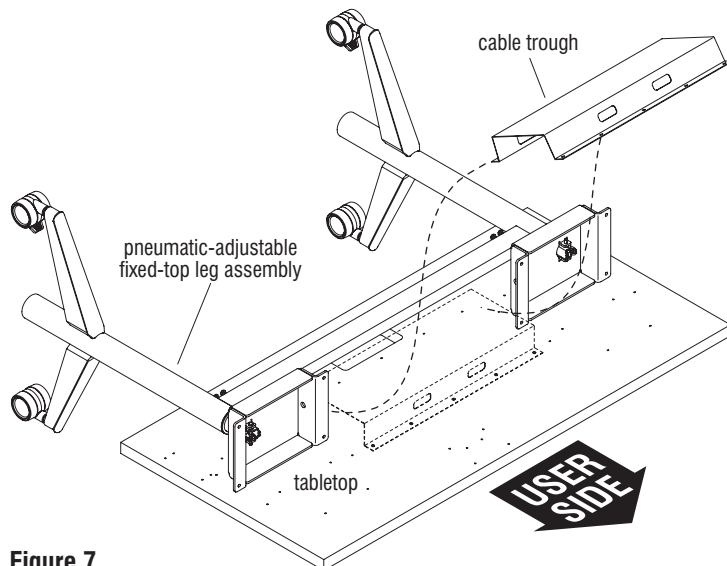
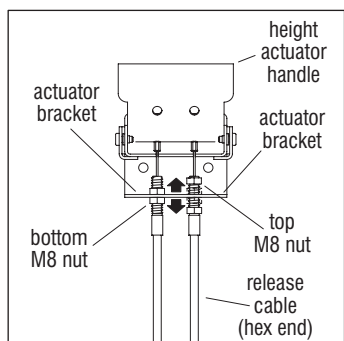


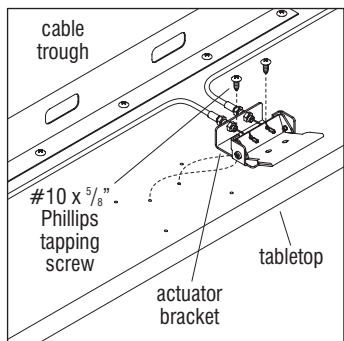
Figure 7



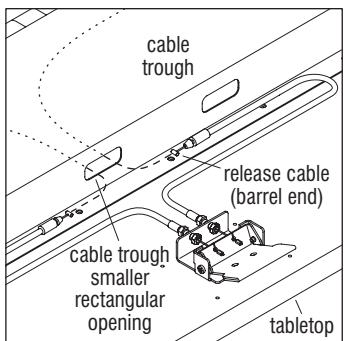
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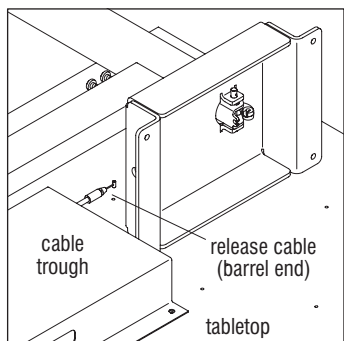
Detail H



Detail I



Detail J



Detail K

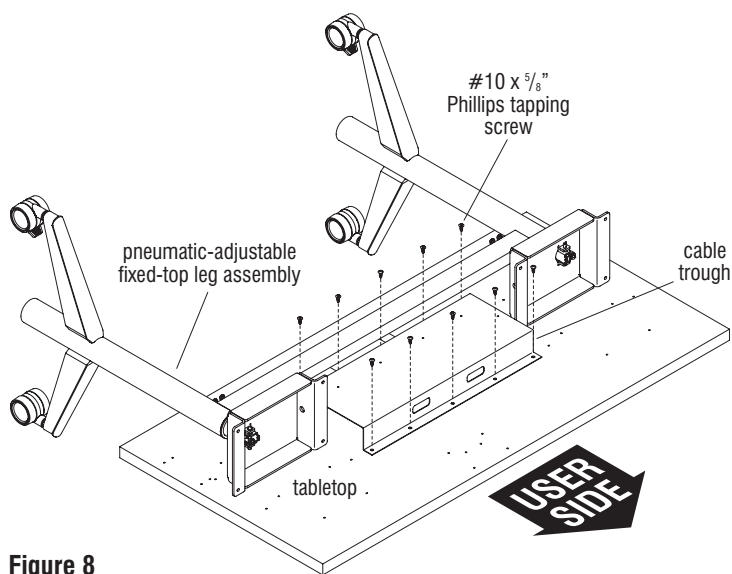


Figure 8

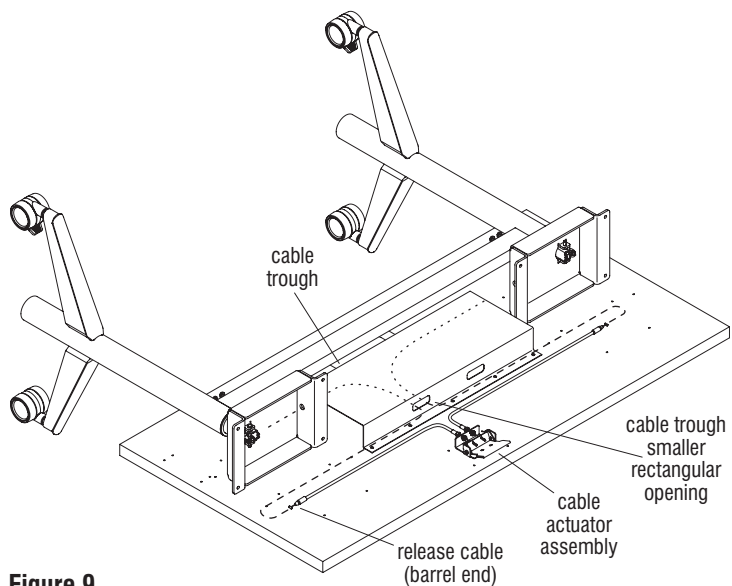


Figure 9

17. Secure the cable trough to the tabletop using ten #10 x 5/8" Phillips tapping screws. Do not over-tighten (Figure 8).
18. Locate the cable actuator assembly with two release cables attached. At the actuator bracket, twist each top M8 nut up onto the top threads of the release cable housing (hex end), only enough to hold the top of each cable housing in place on the actuator bracket. Once each top M8 nut has been adjusted, thread the bottom M8 nuts all the way down on each cable housing threads (Detail H).
19. Align the mounting holes of the cable actuator assembly with the pre-drilled holes on the tabletop and secure using two #10 x 5/8" Phillips tapping screws (Detail I).
20. Guide the barrel end of each cable into the smaller rectangular opening on the cable trough, closest to the cable actuator assembly. Then route the barrel end of the release cable in the leftmost hole on the actuator bracket out the left end of the cable trough, and the rightmost cable's barrel end out the right end of the cable trough (Figure 9 & Details J & K).

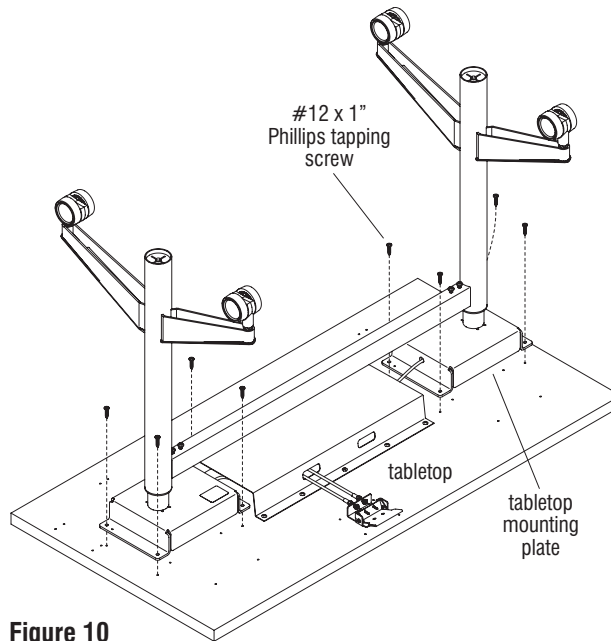
# ■ Pirouette HA Tables - Pneumatic-Adjustable Height Fixed-Top Base Assembly Instructions



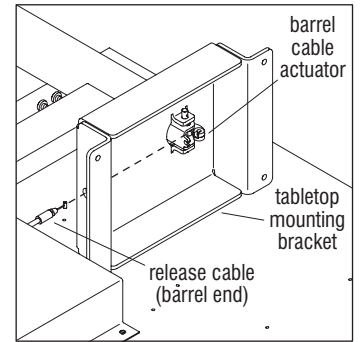
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

## **Pneumatic-Adjustable Fixed-Top Leg Assembly Installation (cont.)**

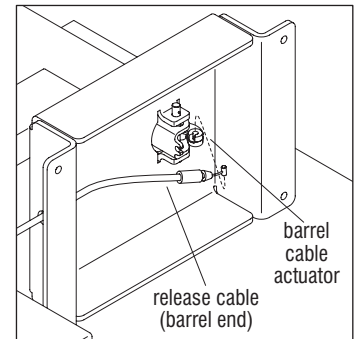
21. Route the barrel end of one release cable through the round hole located on the side of the tabletop mounting plate, until the barrel end reaches the barrel cable actuator (Detail L).
22. Insert the barrel end of the release cable into the housing slot on the barrel cable actuator (Detail M).
23. With the barrel end engaged, press the plastic end of the release extension cable into the cable holder bracket by snapping the notch of the cable's plastic end into the cable holder bracket as illustrated. If the release cable will not snap into the cable holder bracket, tap lightly with a rubber mallet until the plastic end snaps into the holder (Details N & O).
24. Repeat steps 21 through 23 to secure the second release cable to the opposite-side barrel cable actuator and cable holder bracket.
25. Carefully lift and rotate the pneumatic-adjustable fixed leg assembly so it is upside down in mounting position, on the tabletop as illustrated. Align each tabletop mounting plate's mounting holes with the tabletop mounting holes and secure using four #12 x 1" Phillips tapping screws per plate (Figure 10).



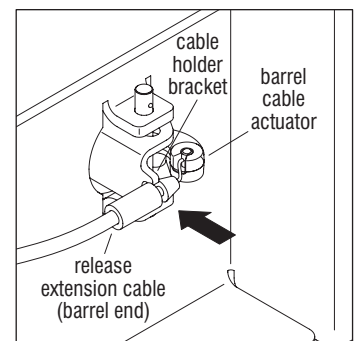
**Figure 10**



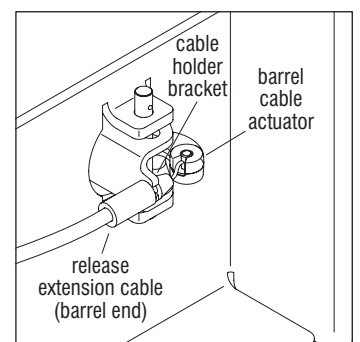
**Detail L**



**Detail M**



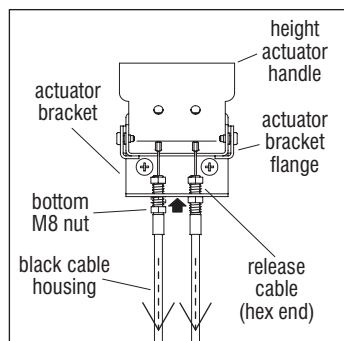
**Detail N**



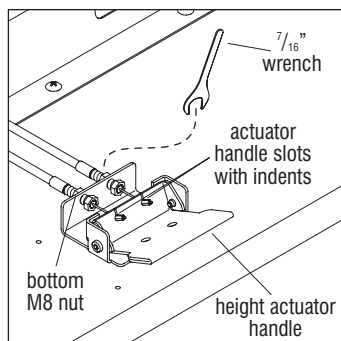
**Detail O**



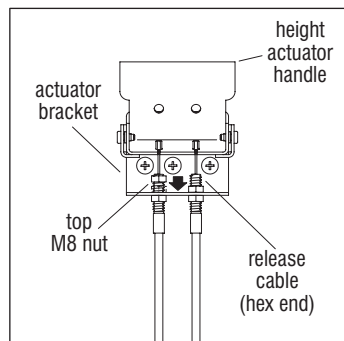
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



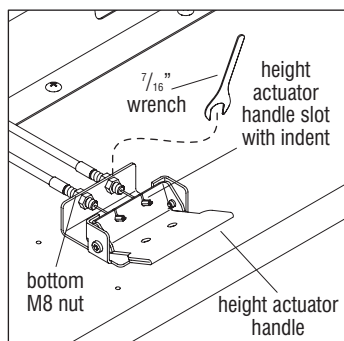
Detail P



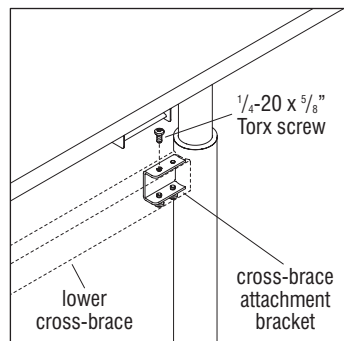
Detail Q



Detail R



Detail S



Detail T

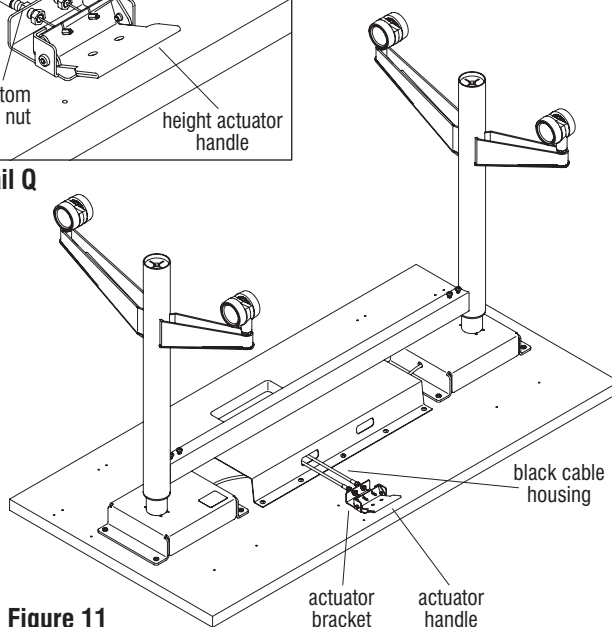


Figure 11

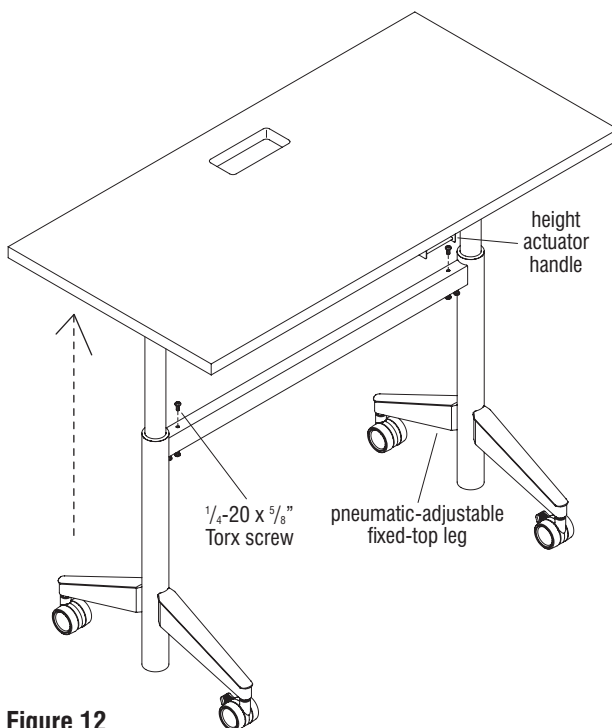


Figure 12

### Cable Actuator Adjustments

26. Gently pull down on each black cable housing under the cable actuator assembly to assure the hex ends are nested snugly in the actuator handle, and the actuator handle is also pulled down tight to the top flanges of the actuator bracket. Then twist each bottom M8 nut upward, finger-tight against the actuator bracket, to assure the cable's hex end is snug and nested in the conical indent of the handle (Figure 11 & Detail P).
27. After the bottom M8 nuts are finger tight to the actuator bracket, tighten each bottom nut an additional one-quarter to one-half of a turn using the  $\frac{7}{16}$ " wrench provided (Detail Q).
28. Next, twist each top M8 nut downward, finger tight to the actuator bracket. Then, one nut at a time, using the  $\frac{7}{16}$ " wrench provided, tighten each top nut one-quarter to one-half of a turn to secure (Details R & S).
29. Carefully turn the table to the upright position. Locate the height actuator handle at the front, user side of the table and raise the table height enough to gain access to the top holes on each end of the lower cross-brace.
30. Secure lower cross-brace to the cross-brace attachment bracket using one  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx screw on the top hole location at each end, then fully tighten the two  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx head screws on the underside of the lower cross-brace at each end (Detail T).

## ■ Pirouette HA Tables - Pneumatic-Adjustable Height Fixed-Top Base

### Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

#### Testing Table Height-Adjustability

31. With the table in the upright position, press the height actuator handle again, apply pressure down on the tabletop to test that it lowers evenly. If the table raises and lowers evenly, no additional adjustment is required. If the table does not automatically raise when the height actuator handle is pressed, one or both cable's hex ends are loose, and require additional adjustment to add more tension. If adjustments are required, proceed to "Test 1 - Automatic Height Test" instructions on the next page. If no adjustments are required, proceed to "Test 2 - Leg Stability Test" instructions on the next page.

#### Test 1 - Automatic Height Test

32. Begin "Test 1" adjustments by moving under the table or carefully placing the table upside down on a soft, protective surface to gain access to the height actuator handle and cables (Figure 13). Inspect the hex ends of both cables in the actuator handle slots and conical indent and identify if one or more are not nested properly, and handle is not tight (Detail U). Loosen the appropriate top M8 nut using the  $\frac{7}{16}$ " wrench provided while pulling down on the black cable housing and twist the nut up as required. Holding the cable housing down, twist the bottom nut up finger tight, enough to assure that the hex cable end is seated correctly into the conical indent of the actuator handle, and the handle is tight down against the actuator bracket. Use the  $\frac{7}{16}$ " wrench to turn the bottom M8 nut one-quarter to one-half of a turn more to tighten. (Detail V). Check to assure the cables are tight, or repeat the above process.

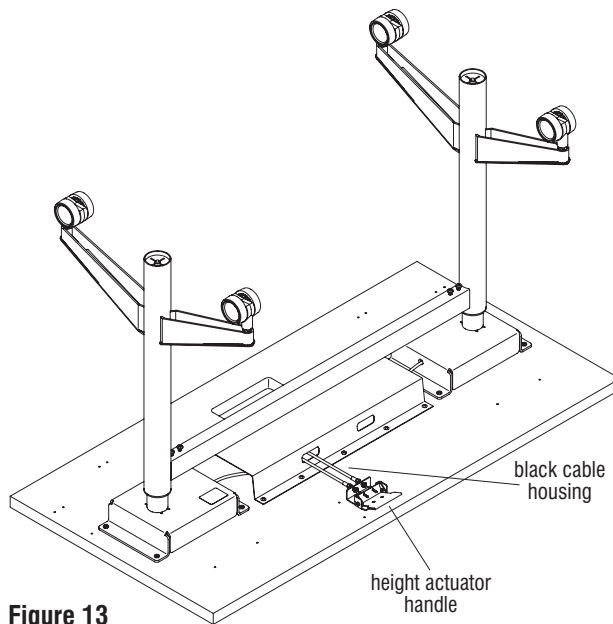


Figure 13

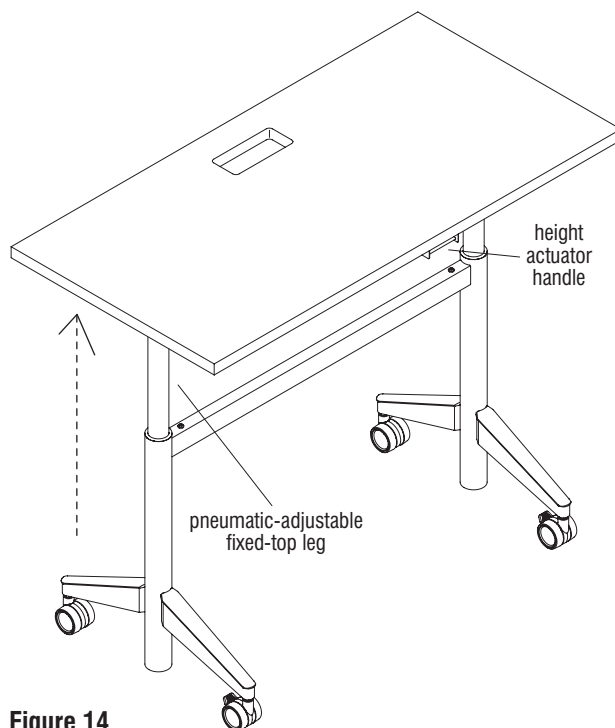
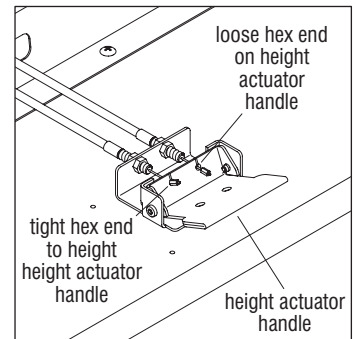
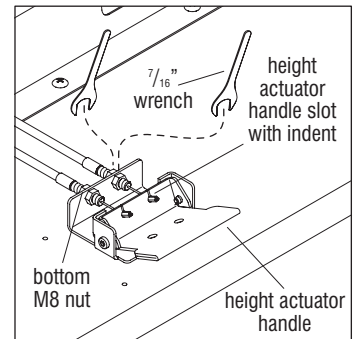


Figure 14



Detail U



Detail V





Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

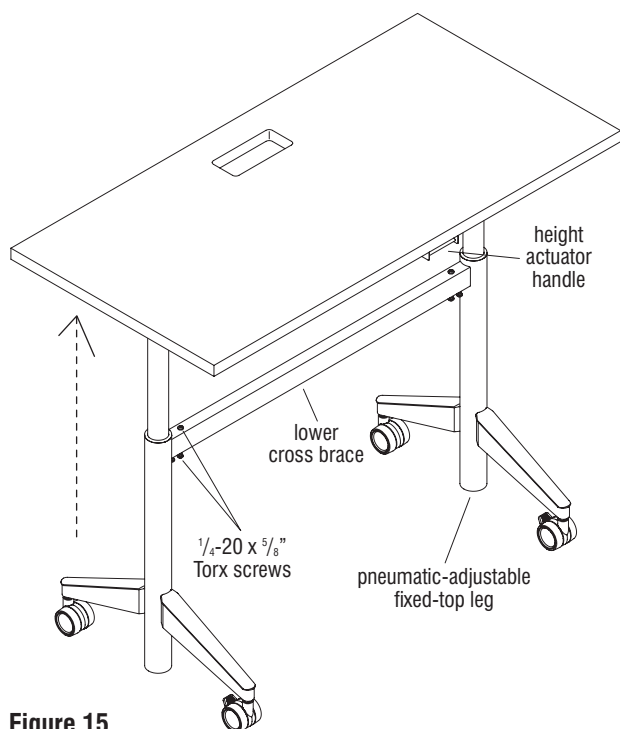


Figure 15

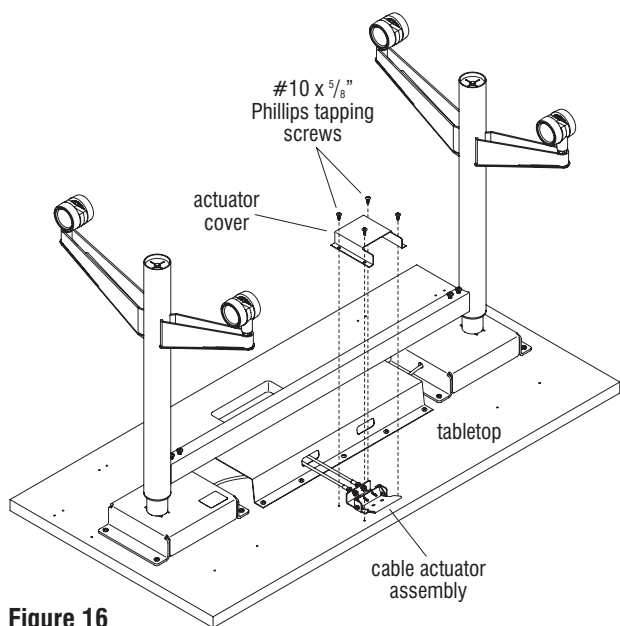


Figure 16

### Test 2 - Leg Stability Test

33. Carefully turn the table to the upright position. Locate the height actuator handle at the front, user side of the table and press the actuator handle up, to automatically raise the table height at least four inches (Figure 15). One side at a time, push down on the raised tabletop over each side's pneumatic-adjustable leg (Detail W). If pressing down on each end does not cause the tabletop to lower at one of the ends, no adjustment is needed. If the tabletop lowers on one side with pressure, one or more cables are adjusted too tight, and adjustment is required. If adjustments are required, proceed to step 34 below. If no adjustments are required, proceed to "Actuator Cover Installation" instructions below.

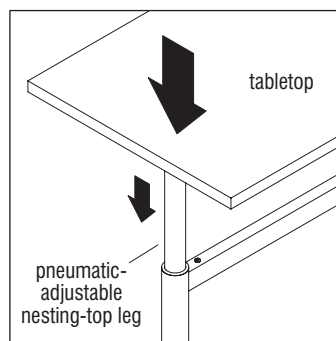
34. Begin "Test 2" adjustments by moving under the table or carefully placing the table upside down on a soft, protective surface to gain access to the height actuator handle and cables (Figure 16). At the side of the table which could be pressed down with the table raised, locate the appropriate cable housing and M8 nuts to lessen that cable tension. Using the  $\frac{7}{16}$ " wrench, loosen the bottom M8 nut one-quarter to one-half of a turn, or until tension releases. Then, twist the top M8 nut down finger tight and use the  $\frac{7}{16}$ " wrench to turn the nut one-quarter to one-half turn more to tighten it (Detail X). Carefully turn the table to the upright position, press the height actuator handle to raise the table, and test the side that was adjusted to see if it lowers with pressure. If it does not lower, no more adjustment is required, but if it does lower, repeat step 34.

### Actuator Cover Installation

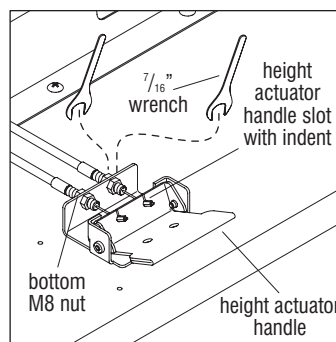
35. Move under the table or carefully place the table upside down on a soft, protective surface (Figure 16).

36. At the underside of the tabletop, position the actuator cover above the cable actuator assembly. Secure the cover to the tabletop using four #10 x  $\frac{5}{8}$ " Phillips tapping screws (Figure 16).

37. If the table being assembled will receive power, proceed to "Power Module Overview" instructions on page 37. If the table being assembled does not require power, but requires a grommet, proceed to "Grommet Overview" instructions on page 42. If the table being assembled does not require power or grommets but requires a modesty panel, proceed to "Modesty Panel Installation" instructions on page 46. If the table being assembled does not require power, grommet or a modesty panel, move the table to the final location of use.



Detail W



Detail X



# **Pirouette HA Tables - Screw-Adjustable Height Nesting-Top Base** Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

## **Screw-Adjustable Height Nesting-Top Leg Assembly (Leg Kit Item #HSN24)**

1. Carefully remove contents from shipping packing and identify parts and hardware supplied.

**Note:** The two screw-adjustable nesting-top legs, when assembled together with the cross brace between them are designed to have a smaller gap between the back feet, and have a larger gap between the feet which must be oriented at the front, "user side" of the table when the bases are assembled to the tabletop.

2. Carefully stand the two screw-adjustable nesting-top legs to the upright position with cross-brace attachment brackets facing each other as illustrated. Orient the legs so the cross-brace attachment brackets on each leg post are inline to each other, then identify the side of the leg pair that has a larger gap between the feet. The side with the larger gap is the user side and eventually will be placed at the user side of the tabletop (Figure 1 & Detail A).
3. If the table being assembled is a caster leg unit, proceed to "Caster Installation" instructions below, otherwise proceed to "Glide Installation" instructions on this page.

### **Caster Installation**

**Note:** Casters are designed as locking, and non-locking. Each type must be installed to the appropriate side of a table leg, as it corresponds to either the user, or non-user side of the table. Take care and follow directions below when positioning legs for caster assembly. If casters are not installed to the proper locations, users will not be able to properly access the locks on the casters from the user side of the table, and disassembly and reassembly will be required.

4. Locate the locking and non-locking casters. Locking casters are to be installed to the front, user side of each leg, and non-locking casters

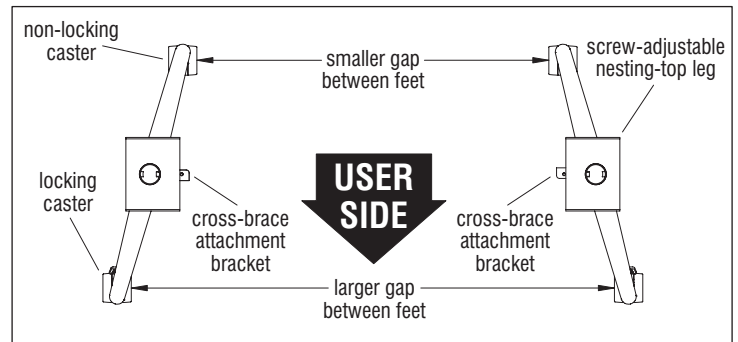
are to be installed to the rear of each leg. Use a  $\frac{3}{4}$ " open end wrench to tighten casters to the foot of each leg (Figure 1).

5. Proceed to "Lower Cross-Brace Tube Installation" instructions on the next page.

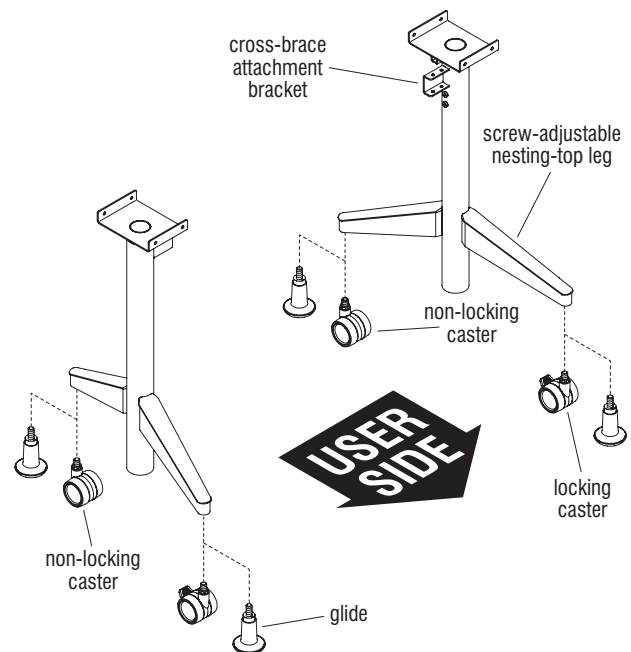
### **Glide Installation**

6. Thread the stems of two glides into the threaded inserts at the underside of each foot by hand. Twist the glides in clockwise, fully to the bottom of the feet (Figure 1).

7. Proceed to "Lower Cross-Brace Installation" instructions on the next page.



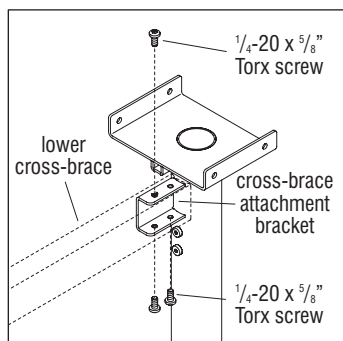
**Detail A - (top view)**



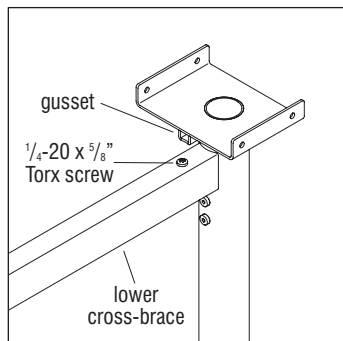
**Figure 1 - (Leg Kit Item #HSN24)**



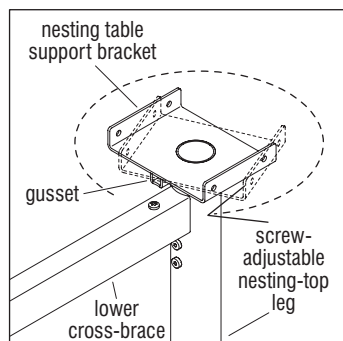
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



Detail B



Detail C



Detail D

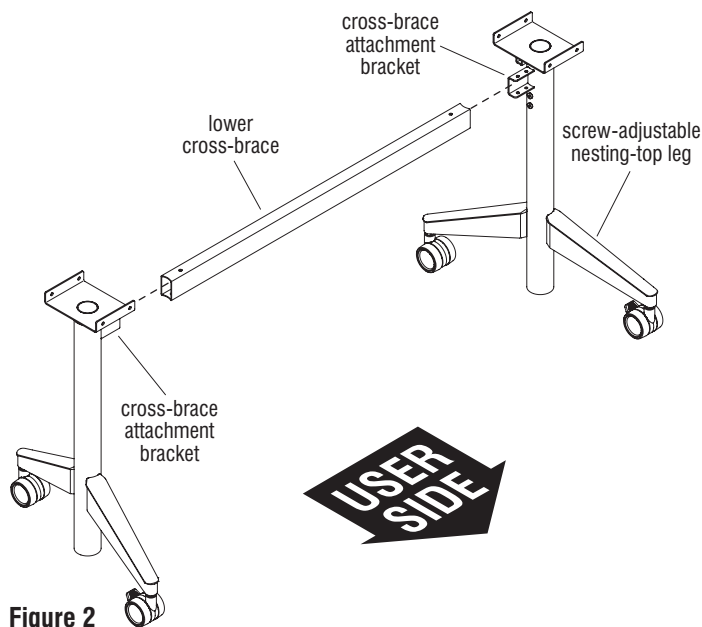


Figure 2

#### Lower Cross-Brace Installation

8. Orient the lower cross-brace so the side with one mounting hole on each end is on the top of the brace, while the side with two mounting holes on each end is on the underside of the brace (Figure 2).
9. One leg at a time, insert the cross-brace attachment bracket into an available open end of the lower cross brace, making sure the brace side with one mounting hole on each end is on the top. If the brace is not positioned correctly for installation, disassembly and reassembly will be required (Figure 2).
10. Align the cross-brace mounting holes with the cross-brace attachment bracket mounting holes on one leg. Secure brace to the bracket using one  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx screw on the top hole location and two  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx screws on the underside hole locations. Repeat this process to secure the opposite leg to the brace (Figure 3 & Details B & C).
11. Make sure the gussets on the nesting table support brackets are facing each other before proceeding to "Nesting Support Assembly Installation" instructions on the next page (Details C & D).

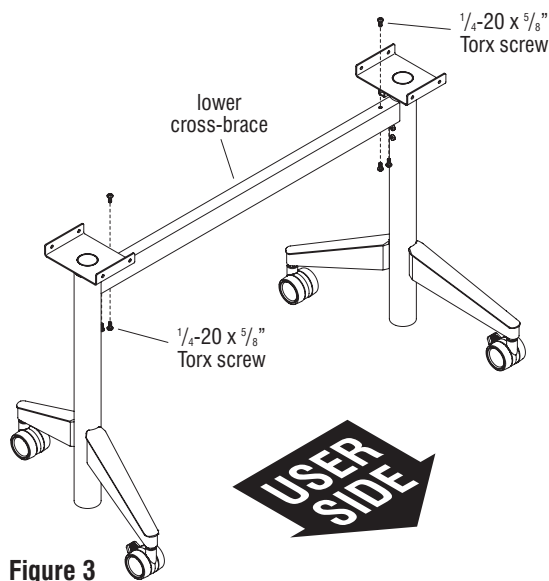


Figure 3

# ■ Pirouette HA Tables - Screw-Adjustable Height Nesting-Top Base Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

## **Nesting Support Assembly Installation**

12. Carefully place the nesting support assembly on a soft, protective surface.

**WARNING:** The nesting support assembly consists of two spring-loaded mechanisms, one on each end of an actuating rod. Each spring-loaded mechanism is latched, and for safety is secured in the closed position with a zip-tie to prevent the mechanisms from flipping open if the tabletop lock paddles are accidentally engaged during shipment. Care must be taken when removing the zip-ties.

**Assure that both nesting mechanisms are pressed closed and latched, and do not actuate the tabletop lock paddles before cutting zip-ties.**

13. One side at a time, press down firmly on the top of the closed spring-loaded mechanism, cut the zip-tie with a wire cutter and pull it out. While holding the mechanism down firmly, gently lift on the tabletop lock paddle, and release holding pressure to open that side of the mechanism. Repeat the process for carefully cutting and removing the zip-tie, then actuating the tabletop lock paddle to open the mechanism at the other end of the support assembly. Take care to not actuate the tabletop lock paddles while cutting, which may release the spring-loaded mechanism quickly and cause personal injury (Figure 4 & Details E & F).

14. Carefully set the opened spring-loaded mechanisms onto the leg attachment brackets, making sure the tabletop lock paddles face the user side of the table (Figure 5).

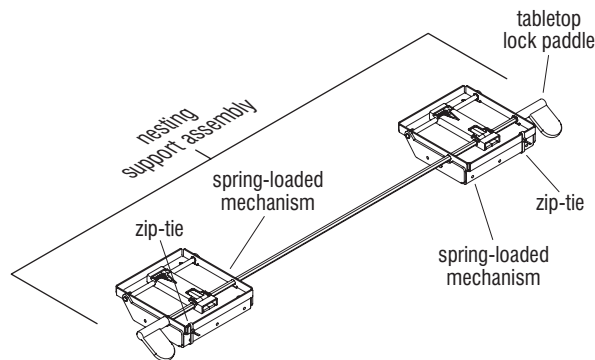


Figure 4

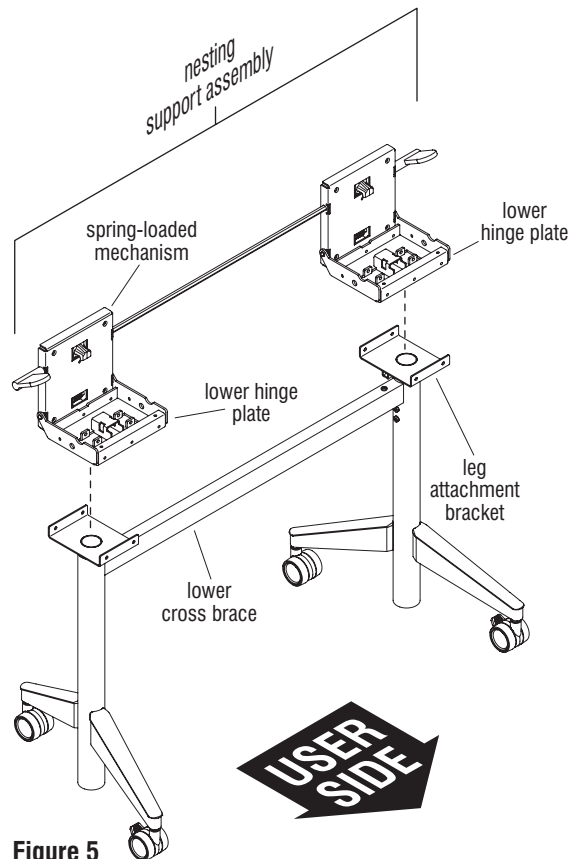
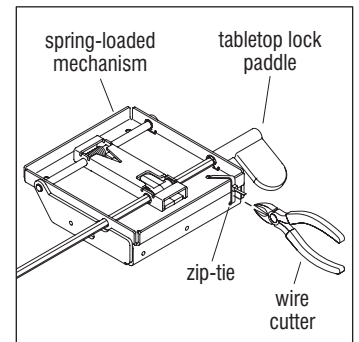
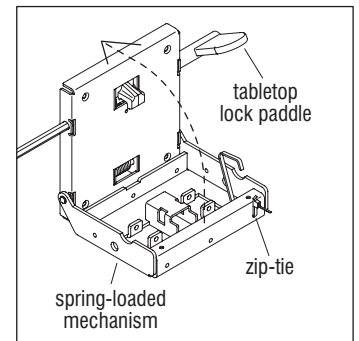


Figure 5



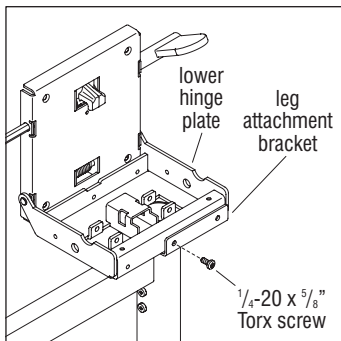
Detail E



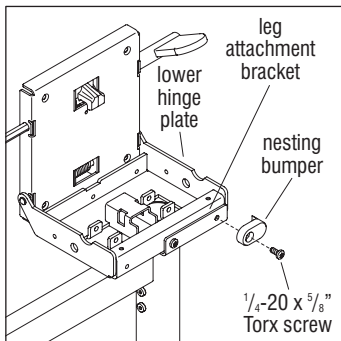
Detail F



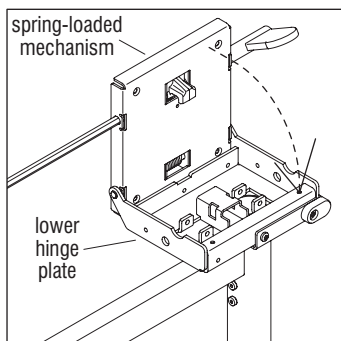
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



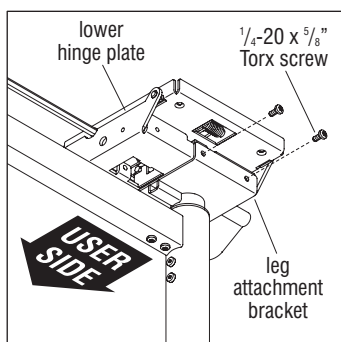
Detail G



Detail H



Detail I



Detail J

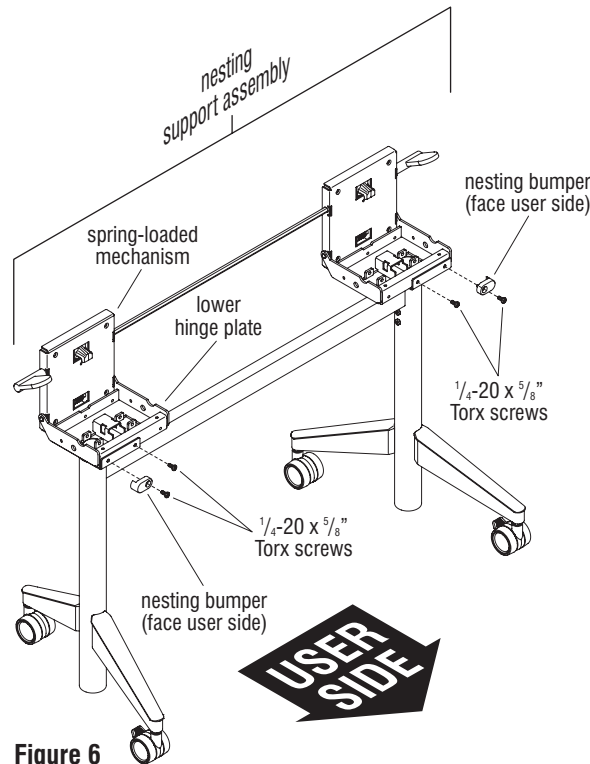


Figure 6

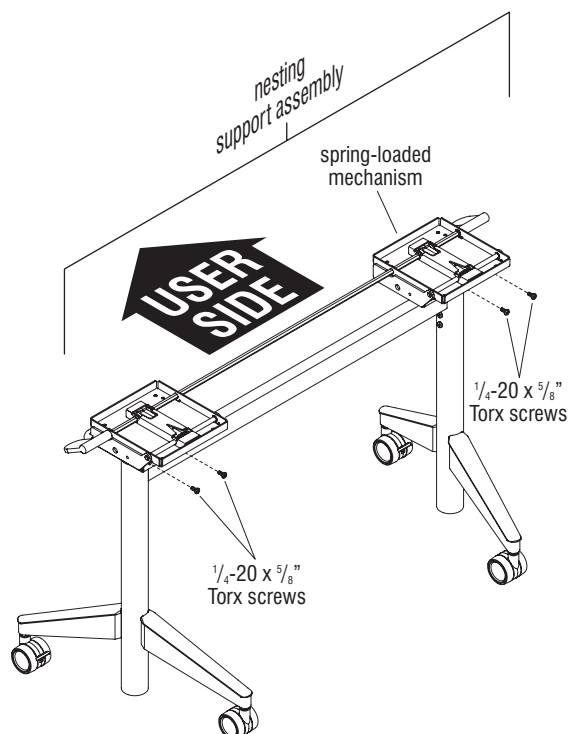


Figure 7

15. At one leg/side of the leg attachment bracket at a time, align the two mounting holes of the leg attachment bracket with the associated mounting holes of the lower hinge plate (Detail G). As illustrated, at the inward-most mounting hole, secure the mechanism to the attachment bracket using one  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx screw. Repeat the above step at the opposite leg, at the other side of the nesting mechanism assembly (Figure 6 & Detail G).

16. Next, locate the two nesting bumpers to be installed to each outermost mounting hole, one bumper at each leg/side of the spring-loaded mechanism (Detail H). At one side first, align a nesting bumper over the outermost mounting hole in the leg attachment bracket as illustrated and insert and tighten a  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx screw through the nesting bumper, through the leg attachment bracket and tighten into the lower hinge plate. Repeat the above step at the opposite leg, at the other side of the nesting support assembly (Figure 6 & Detail H).

17. To gain access to the leg attachment bracket mounting holes on the non-user side of the nesting mechanisms, close and latch both spring-loaded mechanisms down onto the lower hinge plates (Detail I).

**WARNING:** For the next step, when securing the leg attachment brackets to the lower hinge plates, **DO NOT** touch the tabletop lock paddles as they may accidentally engage and cause the spring-loaded mechanisms to flip up causing personal injury.

18. On the non-user side of the nesting support assembly, secure the leg attachment brackets to the lower hinge plates using two  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx screws per bracket (Figure 7 & Detail J).

# ■ Pirouette HA Tables - Screw-Adjustable Height Nesting-Top Base Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

## **Nesting Support Assembly Installation (cont.)**

19. Carefully place the tabletop upside down on a soft, protective surface. Take note that the "user side" of the tabletop has pilot holes for the cable actuator assembly near the front edge, at center. Carefully position the nesting support assembly onto the tabletop with the tabletop lock paddles and wider spread of the legs oriented to be facing the user side of the table, as illustrated (Figure 8 & Detail K).
20. Align the two mounting holes on the back of each spring-loaded mechanism of the nesting support assembly to the corresponding pre-drilled holes at the underside of the tabletop, then secure using #12 x 1½" Phillips flat head screws. Do not over-tighten (Figure 8 & Detail L).
21. Press a tabletop lock paddle down and gently rotate the screw-adjustable nesting-top legs down to gain access to the front spring-loaded mechanism mounting holes (Figure 9).
22. At the two front mounting holes on each spring-loaded mechanism, one at each side of the nesting support assembly, insert and tighten two #12 x 1½" Phillips flat head screws. Do not over-tighten (Figure 9 & Detail M).

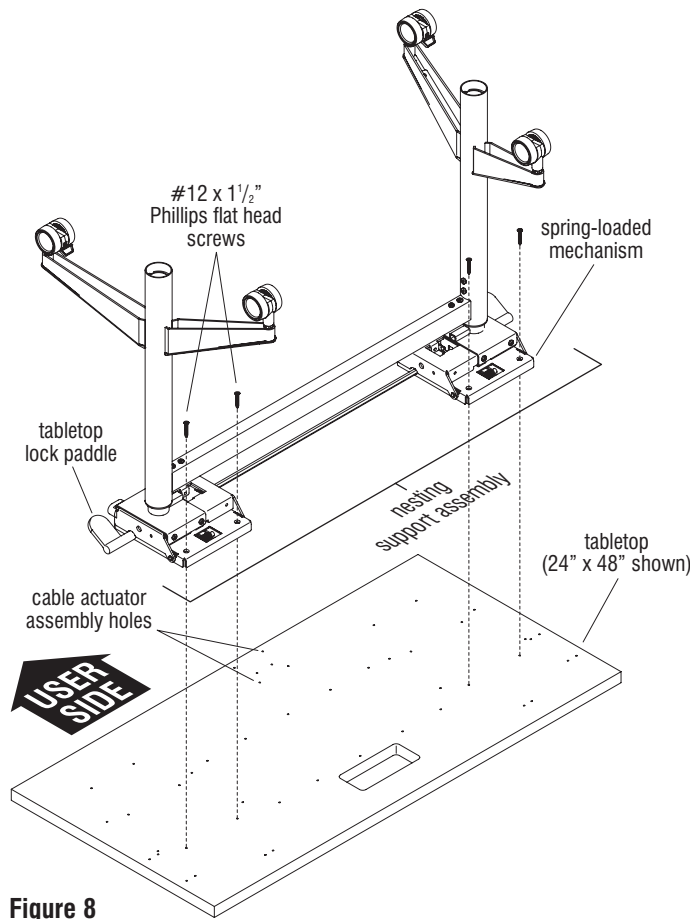


Figure 8

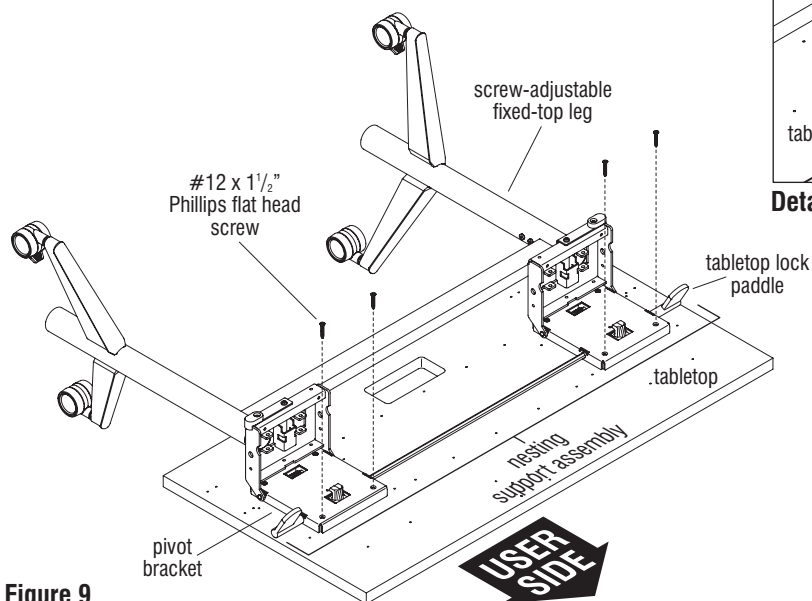
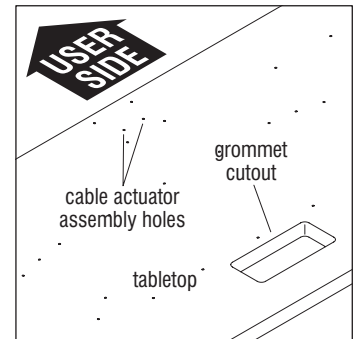
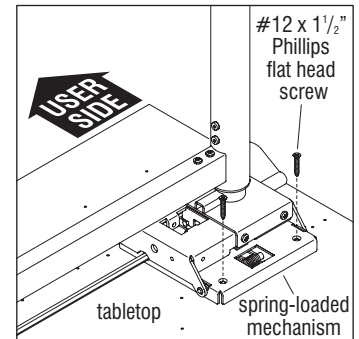


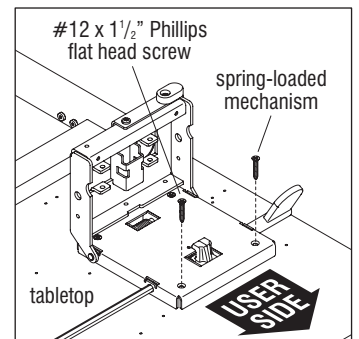
Figure 9



Detail K



Detail L



Detail M



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

#### Cable Trough Installation

23. Position the cable trough over the tabletop's actuating rod as illustrated, with the two smaller rectangular openings in the trough facing the user side of the table. Align the cable trough mounting holes with the pre-drilled holes in the underside of the tabletop, and secure using ten #10 x  $\frac{5}{8}$ " Phillips tapping screws. Do not over-tighten (Figure 10).

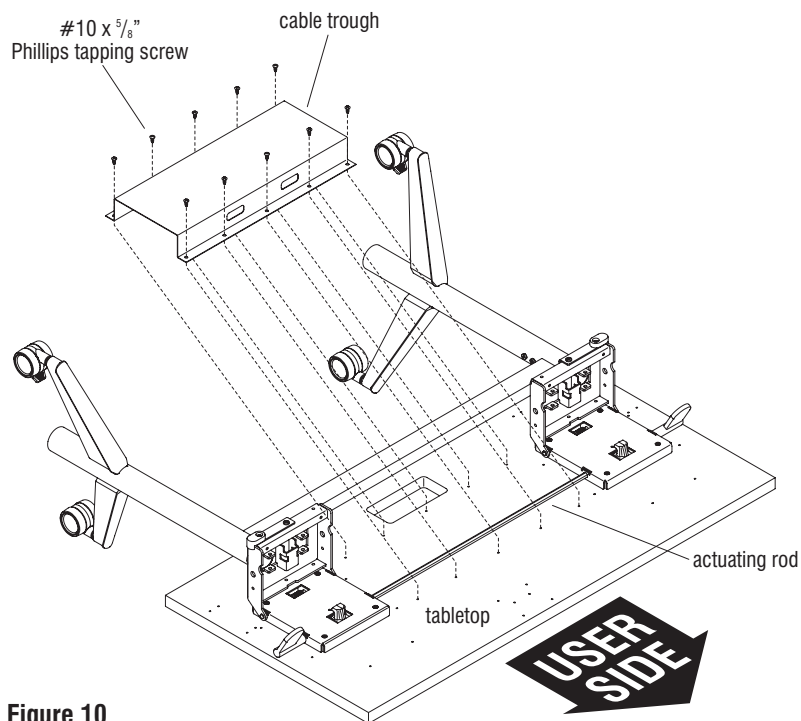


Figure 10



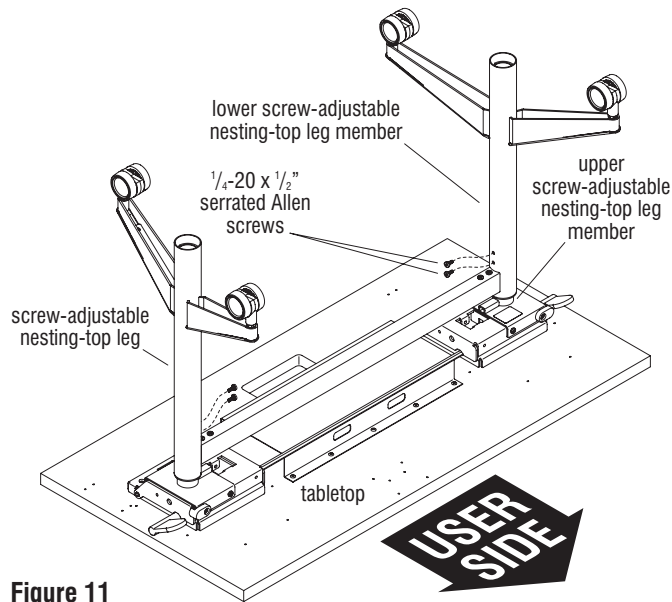
# ■ Pirouette HA Tables - Screw-Adjustable Height Nesting-Top Base Assembly Instructions



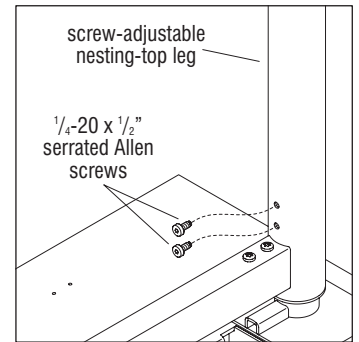
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

## **Table Height Adjustment**

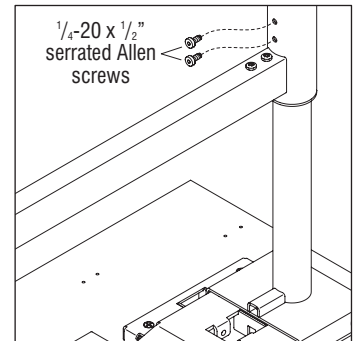
24. Carefully lift and rotate the screw-adjustable nesting-top legs, to close the spring-loaded mechanisms (Figure 11).
25. With the table upside down on a soft, protective surface, remove the two  $\frac{1}{4}$ -20 x  $\frac{1}{2}$ " serrated Allen screws from each lower screw-adjustable fixed-top leg member. Move the lower leg members up or down to the desired height (1" increments). Align the two adjustment holes on the lower member with the two holes on the upper leg member and secure to the desired height with the four previously removed  $\frac{1}{4}$ -20 x  $\frac{1}{2}$ " serrated Allen screws (Figures 11 & 12, Details N & O).
26. If the table being assembled will receive power, proceed to "Power Module Overview" instructions on page 37. If the table being assembled does not require power, but requires a grommet, proceed to "Grommet Overview" instructions on page 42. If the table being assembled does not require power or grommets but requires a modesty panel, proceed to "Modesty Panel Installation" instructions on page 46. If the table being assembled does not require power, grommet or a modesty panel, carefully turn the table into the upright position and move the table to the final location of use.



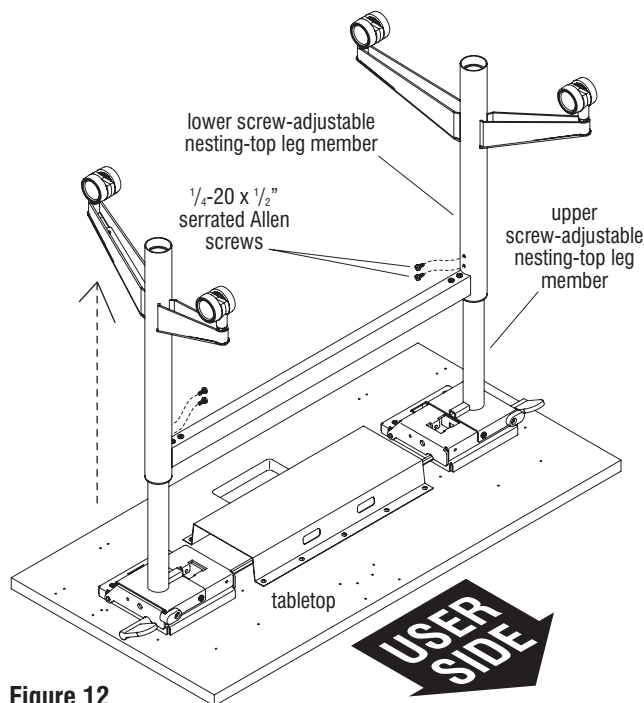
**Figure 11**



**Detail N**



**Detail O**

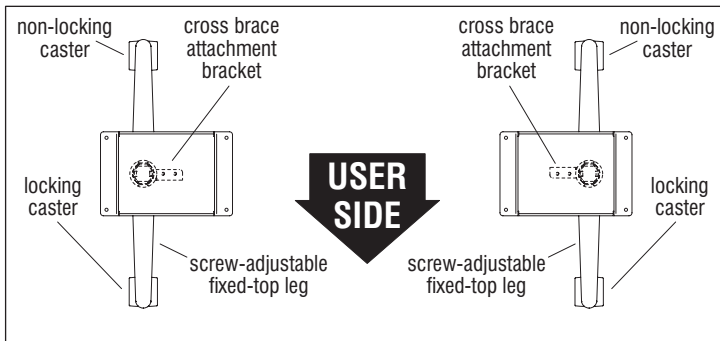


**Figure 12**





Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



Detail A - (top view)

### Screw-Adjustable Height Fixed-Top Leg Assembly (Leg Kit Item #HSF24)

1. Carefully remove contents from shipping packing and identify parts and hardware supplied.

2. Carefully stand the two screw-adjustable fixed-top legs to the upright position with cross-brace attachment brackets facing each other as illustrated. Orient the legs so the cross-brace attachment brackets on each leg post are inline to each other (Figure 1 & Detail A).
3. If the table being assembled is a caster leg unit, proceed to "Caster Installation" instructions below, otherwise proceed to "Glide Installation" instructions on this page.

### Caster Installation

**Note:** Casters are designed as locking, and non-locking. Each type must be installed to the appropriate side of a table leg, as it corresponds to either the user, or non-user side of the table. Take care and follow directions below when positioning legs for caster assembly. If casters are not installed to the proper locations, users will not be able to properly access the locks on the casters from the user side of the table, and disassembly and reassembly will be required.

4. Pick which side of the legs will be designated as the eventual user side of the table. Locate the locking and non-locking casters. Locking casters are to be installed to the front, user side of each leg, and non-locking casters are to be installed to the rear of each leg. Use a  $\frac{3}{4}$ " open end wrench to tighten casters to the foot of each leg (Figure 1).
5. Proceed to "Lower Cross-Brace Tube Installation" instructions on the next page.

### Glide Installation

6. Thread the stems of two glides into the threaded inserts at the underside of each foot by hand. Twist the glides in clockwise, fully to the bottom of the feet (Figure 1).
7. Proceed to "Lower Cross-Brace Installation" instructions on the next page.

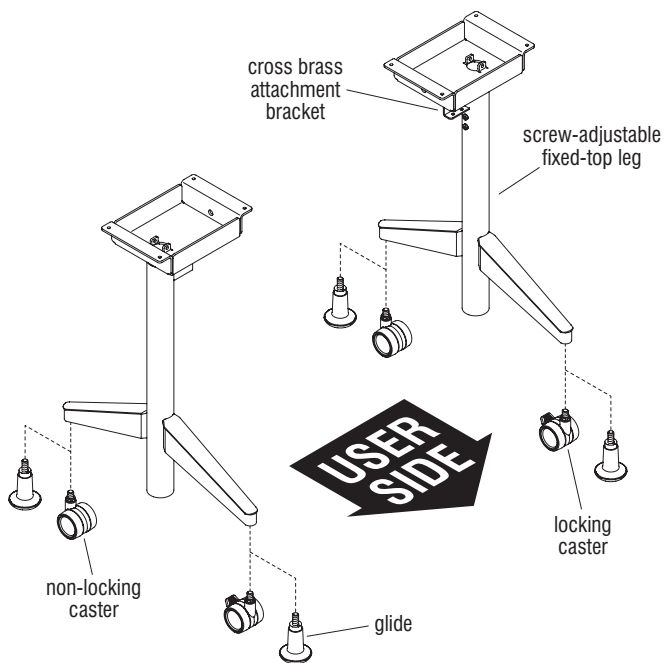


Figure 1 - (Leg Kit Item #HSF24)

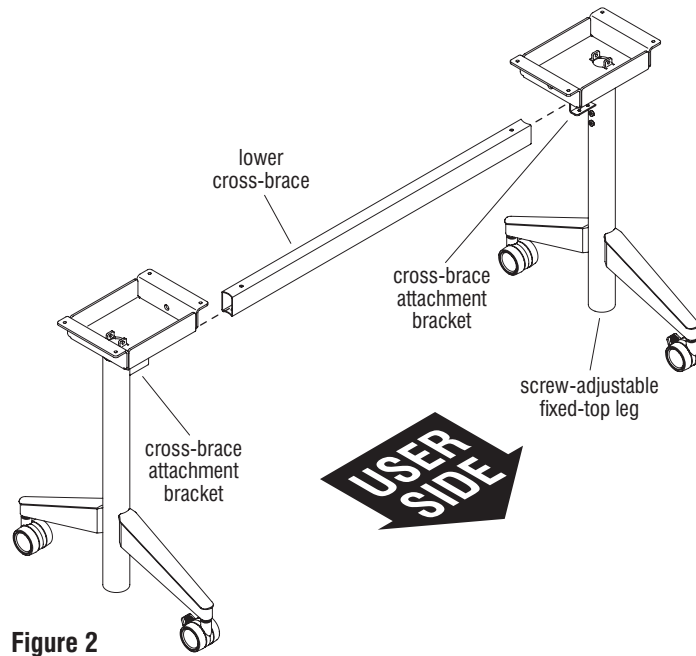
# ■ Pirouette HA Tables - Screw-Adjustable Height Fixed-Top Base Assembly Instructions



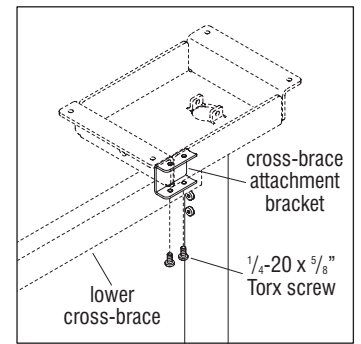
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

## **Lower Cross-Brace Installation**

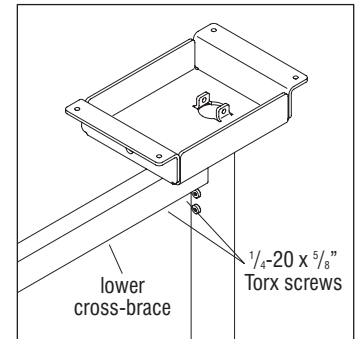
8. Orient the lower cross-brace so the side with one mounting hole on each end is on the top of the brace, while the side with two mounting holes on each end is on the underside of the brace (Figure 2).
9. One leg at a time, insert the cross-brace attachment bracket into an available open end of the lower cross brace, making sure the brace side with one mounting hole on each end is on the top. If the brace is not positioned correctly for installation, disassembly and reassembly will be required (Figure 2).
10. Align the cross-brace mounting holes with the cross-brace attachment bracket mounting holes on one leg. Secure brace to the bracket using two  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx screws on the underside hole locations. Repeat this process to secure the opposite leg to the brace (Figure 3 & Details B & C).



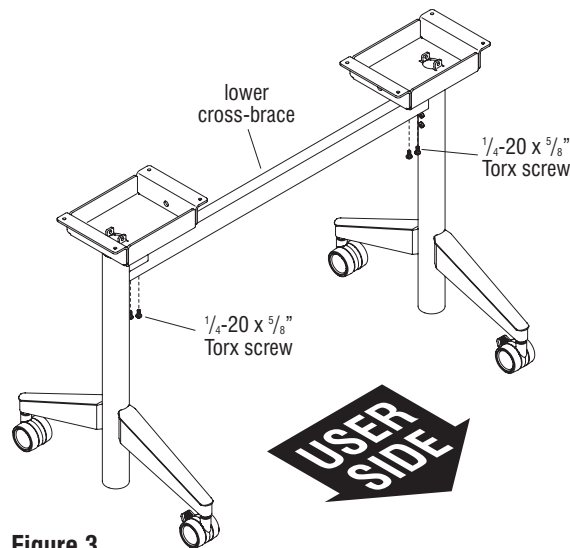
**Figure 2**



**Detail B**



**Detail C**



**Figure 3**



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

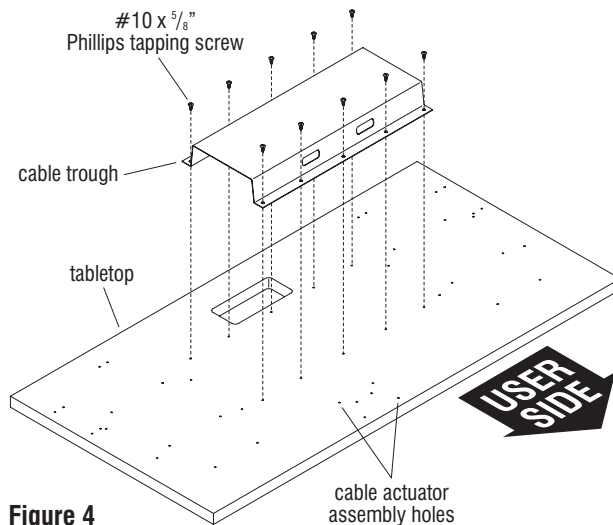


Figure 4

#### Cable Trough Installation

11. Carefully place the tabletop upside down on a soft, protective surface. Take note that the "user side" of the tabletop has pilot holes for the cable actuator assembly near the front edge, at the center (Figure 4).
12. Place the cable trough onto the tabletop with the two smaller rectangular openings in the trough facing the user side of the table. Align the cable trough mounting holes with the pre-drilled holes in the underside of the tabletop, and secure using ten #10 x 5/8" Phillips tapping screws. Do not over-tighten (Figure 4).

#### Fixed Table Support Assembly Installation

13. Carefully set the fixed-top table support assembly upside down onto the tabletop. If the table being assembled has casters, orient the locking casters to be facing the user side of the table, as illustrated (Figure 5).

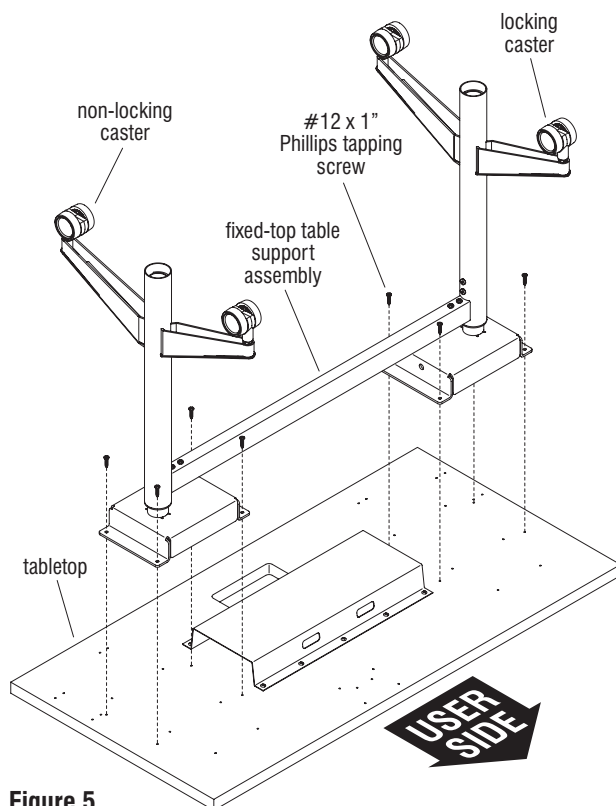


Figure 5

# ■ Pirouette HA Tables - Screw-Adjustable Height Fixed-Top Base Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

## Table Height Adjustment

14. With the table upside down on a soft, protective surface, remove the two  $\frac{1}{4}$ -20 x  $\frac{1}{2}$ " serrated Allen screws from each lower leg member as illustrated (Detail D), then raise the pair of lower legs up to gain access to under the top of the lower cross-brace. At the cross brace, install one final  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Torx screws at each end (Detail E) to secure the cross brace to the cross-brace attachment bracket (Figures 6 & 7, Details D & E).
15. With the two  $\frac{1}{4}$ -20 x  $\frac{1}{2}$ " serrated Allen screws removed from each side in step 14 above, move the lower leg members up, or down to the desired height (1" increments). Align the two adjustment holes on the lower member with the two holes in the upper leg member and secure to the desired leg height using the four previously removed  $\frac{1}{4}$ -20 x  $\frac{1}{2}$ " serrated Allen screws (Figures 6 & 7, Detail F).
16. If the table being assembled will receive power, proceed to "Power Module Overview" instructions on page 37. If the table being assembled does not require power, but requires a grommet, proceed to "Grommet Overview" instructions on page 42. If the table being assembled does not require power or grommets but requires a modesty panel, proceed to "Modesty Panel Installation" instructions on page 46. If the table being assembled does not require power, grommet or a modesty panel, carefully turn the table into the upright position and move the table to the final location of use.

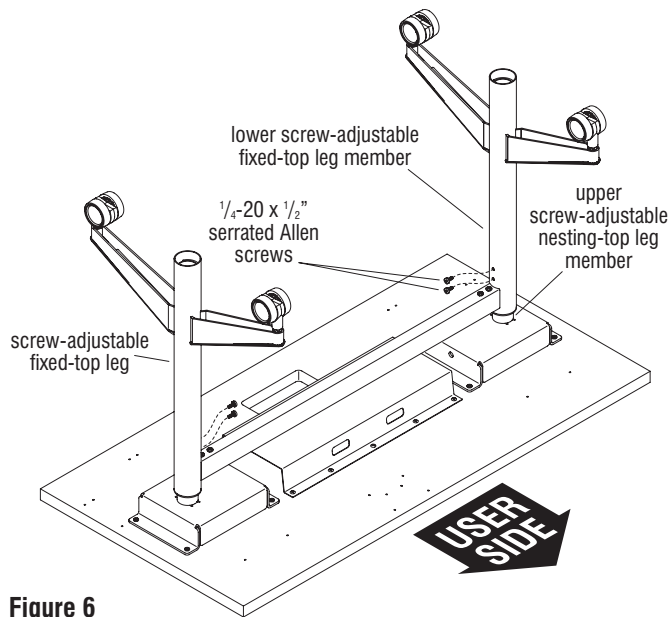


Figure 6

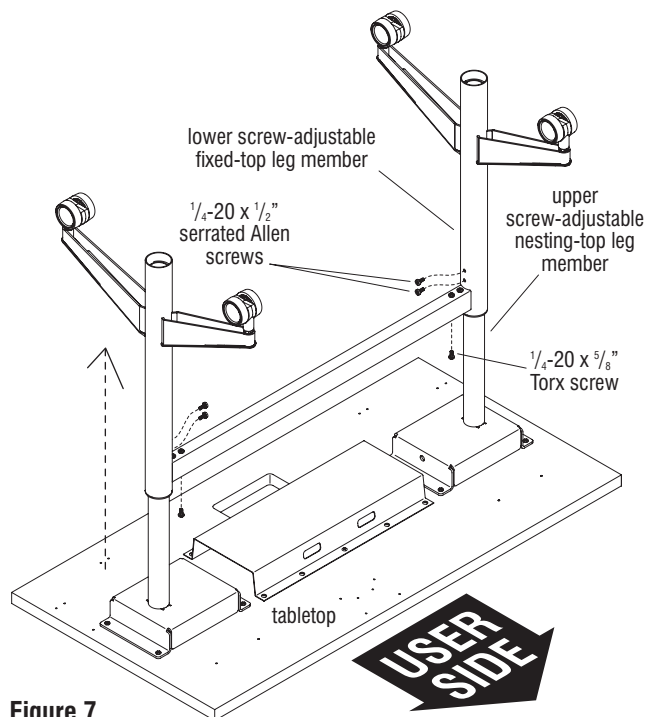
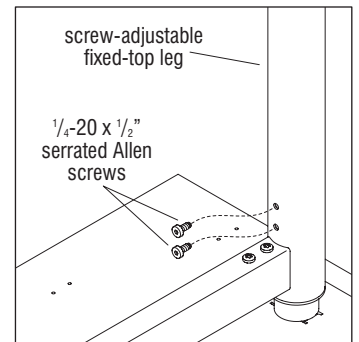
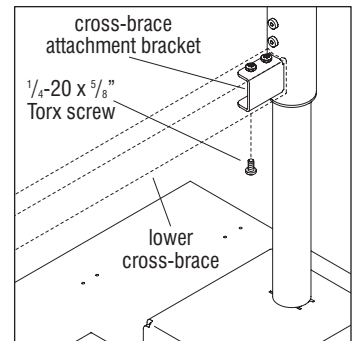


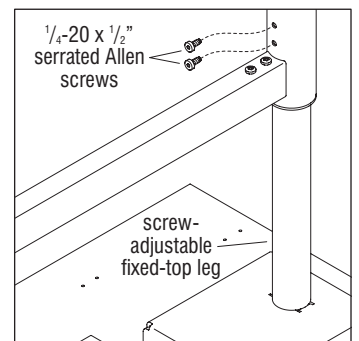
Figure 7



Detail D



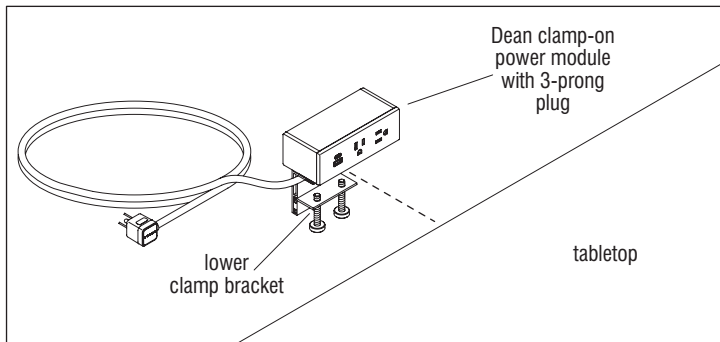
Detail E



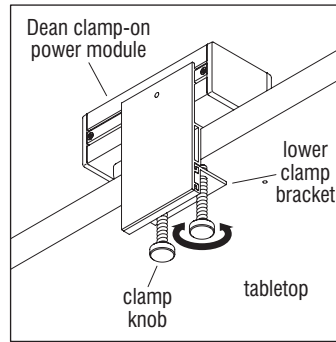
Detail F



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



Detail A



Detail B - (underside shown)

### Power Module Overview

**Note:** Although the figures throughout the "Power Module" instructions illustrate a pneumatic-adjustable height table, the instructions apply to all Pirouette HA tables. Your configuration may vary.

**Note:** If the Pirouette HA table being assembled requires a power module, reference the following sections below based on the power module your table requires: Reference page 37 for Dean clamp-on power modules, page 38 for Dean in-surface power modules, page 39 for Dubbel undersurface power modules, page 40 for Nacre in-surface pop-up power modules or page 41 for Node in-surface power modules.

### Dean® Clamp-On Power Module Installation

1. With the assembled table in the upright position, place the Dean clamp-on power module onto the back edge of the tabletop at the desired location. Assume that the power cord can be routed easily to a power source (Figure 1 & Detail A).
2. Using the clamp knobs on the lower clamp bracket, tighten to secure Dean clamp-on power module to the tabletop (Detail B).
3. Proceed to "Velcro® Wire Manager Installation" instructions on page 43.

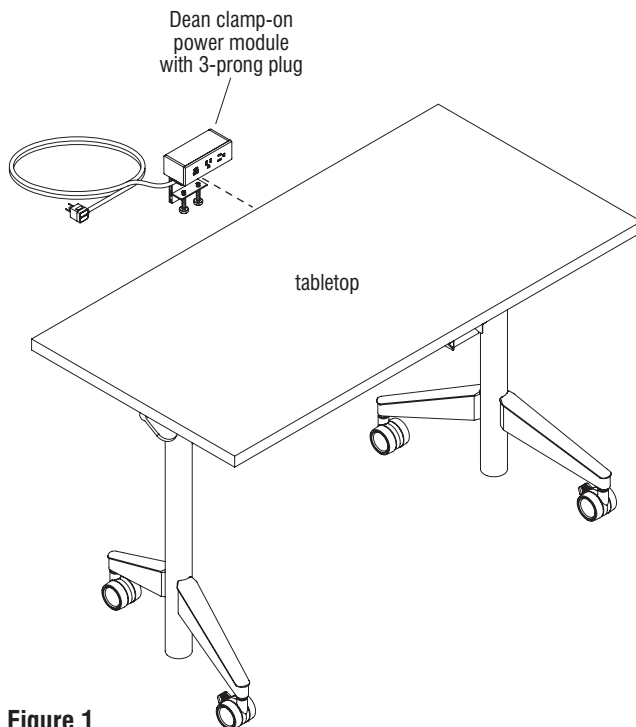


Figure 1

**Pirouette HA Tables - Power Modules**  
Assembly Instructions

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

**Dean® In-Surface Power Module Installation**

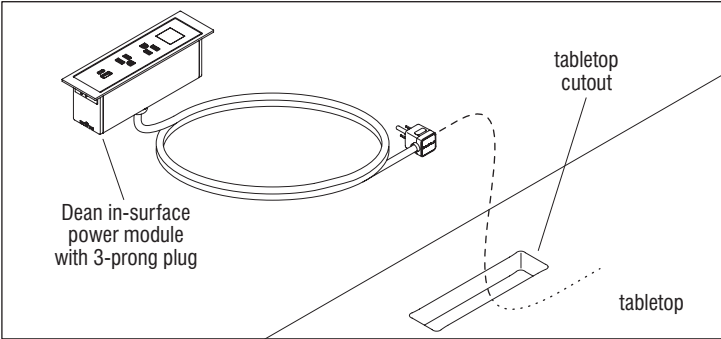
1. With the assembled table in the upright position, orient the Dean in-surface power module as shown and route the plug end down through the tabletop cutout in the tabletop. Press the module down firmly into the cutout (Figure 2 & Detail C).
2. At the underside of the Dean in-surface power module, at each end are two horizontal channels which the clamp bracket assemblies slide into. Position each clamp bracket so the screws are oriented away from the power module, as illustrated in Detail D. Insert a clamp bracket into the two channels on each end of the power module, sliding each in until the top bracket is completely engaged with the channel (Detail D).
3. Using the screws on the clamp bracket assembly, tighten the screws to the tabletop underside to secure the Dean in-surface power module in place to the tabletop (Detail E).
4. Select the appropriate data plate adapter for the phone/data jack to be used and carefully remove from injection molded tree (Detail F).

**Note:** Jacks are sold by separate companies and are not supplied with the module.

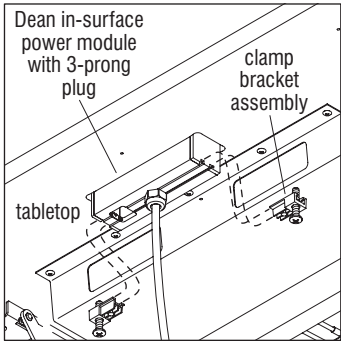
5. Wire the jack appropriately to the data plate and snap the data plate assembly into the module grommet opening as shown (Detail G).

**Note:** Depending on style of data jack used, it may be necessary to route the phone/data cord through the module grommet opening and data plate to install. Each installation may vary.

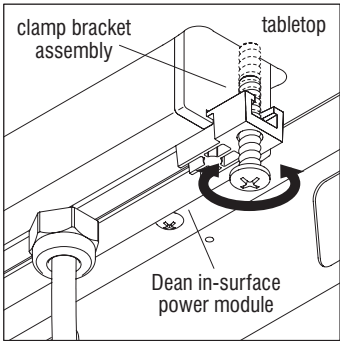
6. Proceed to "Velcro® Wire Manager Installation" instructions on page 43.



Detail C



Detail D - (underside view)



Detail E - (underside view)

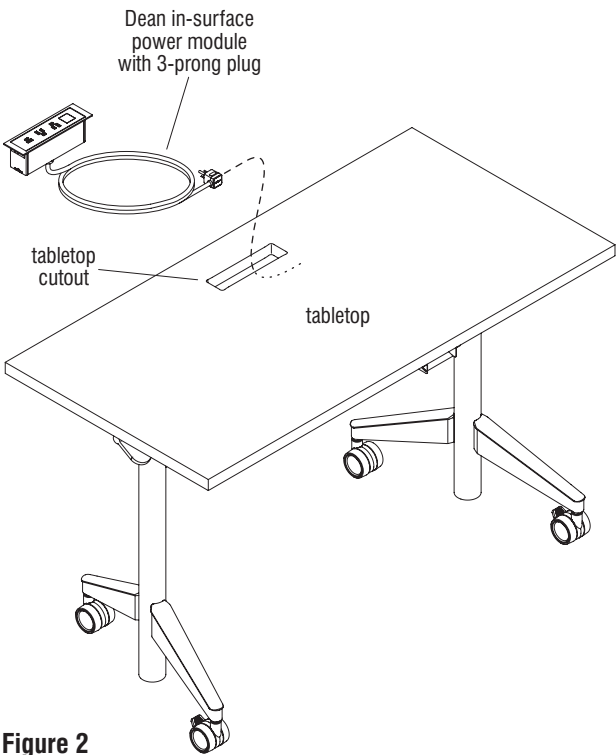
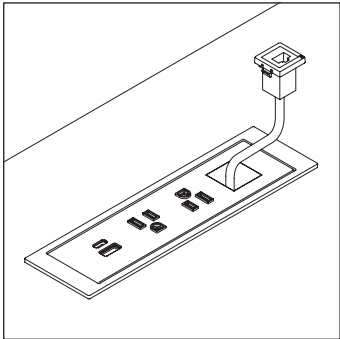


Figure 2

		CCC	EEE		HHH
BBB				FFF	
			DDD		
<b>Data Adapter Plates</b>					
BBB	L-Com Keystone Modular, NETCONNECT and 110 Connect Series Modular Jack, Siemon ZMAX Style, Allen Tel Versa Tap Series, Leviton Quick Port Series, Belden REVConnect, HDMI Adapter Cable.				
CCC	Hubbell Nextspeed Keystone Series, ADC Truenet Series				
DDD	Blank (no coupler/jack)				
EEE	Ortronics Tracjack Series				
FFF	Panduit Mini-Com Series				
HHH	Video Monitor Jack/DB-15				

Detail F

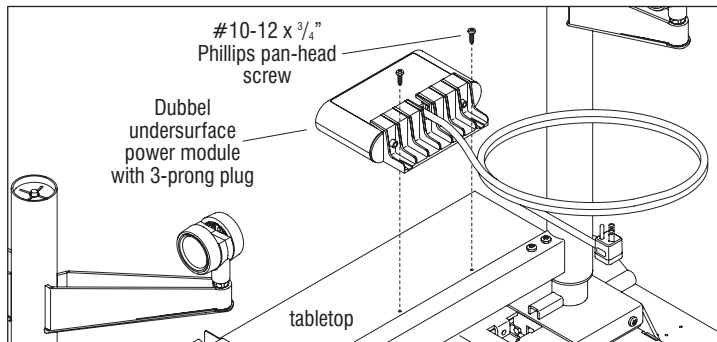


Detail G





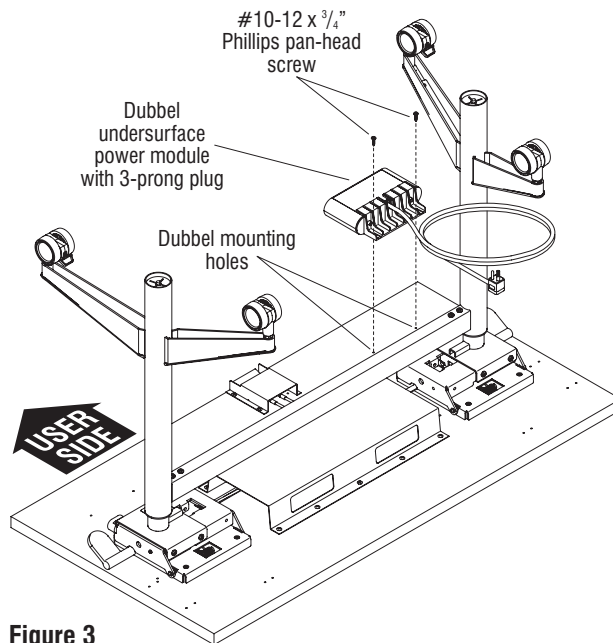
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



**Detail H - Left or Right Aligned Dubbel Mounting Holes**

### Dubbel Undersurface Power Module Installation


1. Align the mounting holes of the Dubbel undersurface power module with one of the two sets of Dubbel pre-drilled mounting hole locations underneath the front, user side of the tabletop as illustrated (Figure 3 and Detail H). Secure the Dubbel power module to the tabletop using two #10-12 x  $\frac{3}{4}$ " Phillips pan-head screws (Figure 3 & Detail H).
2. Proceed to "Velcro® Wire Manager Installation" instructions on page 43.



**Figure 3**

■ Pirouette HA Tables - Power Modules

Assembly Instructions



**CAUTION**

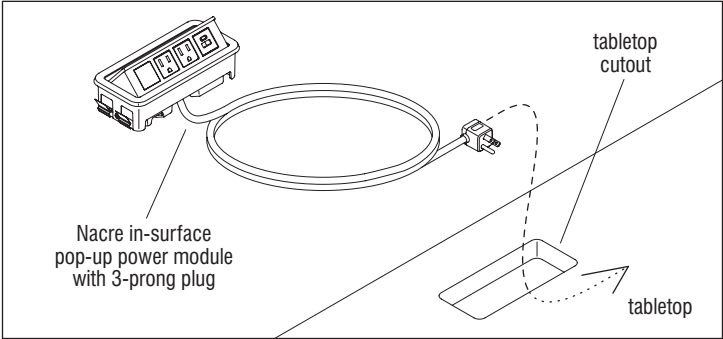
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

**Nacre® In-Surface Pop-Up Power Module Installation**

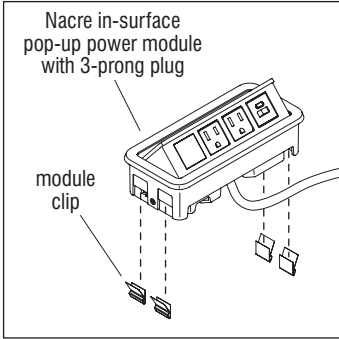
1. Attach four module clips, two at each end, onto the sides of the Nacre in-surface pop-up power module as illustrated (Detail J).
2. With the assembled table in the upright position, orient the Nacre in-surface pop-up power module as shown and route the plug end down through the tabletop cutout. Press the module down firmly into the cutout to secure in place, making sure the two clips on each side of the module catch under the cutout bottom edge of the tabletop (Figure 4 & Detail I).
3. Select the appropriate data adapter plate for the phone/data jack to be used and carefully remove from injection molded tree (Detail K).

**Note:** Jacks are sold by separate companies and are not supplied with the module.

4. Wire the jack appropriately to the data plate and snap the data plate assembly into the module grommet opening as shown (Detail L).
5. Proceed to “Velcro® Wire Manager Installation” instructions on page 43.



Detail I



Detail J

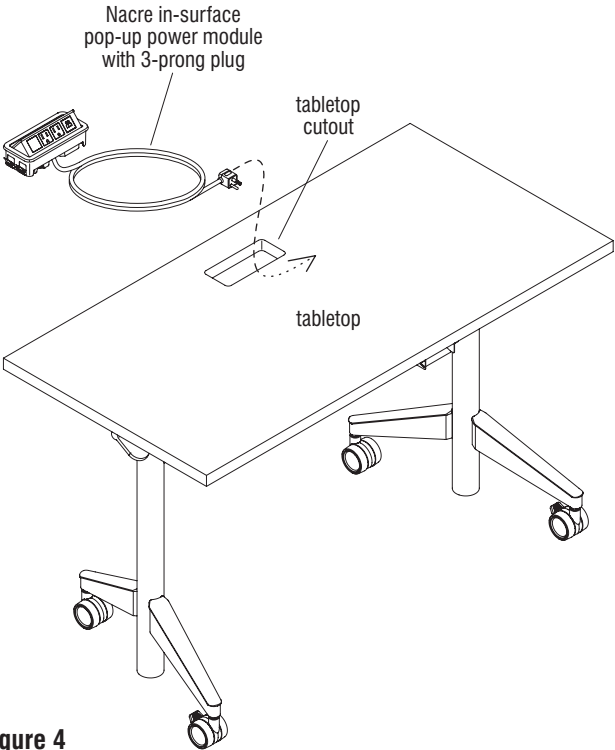
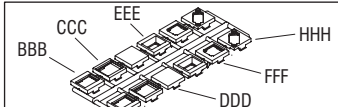
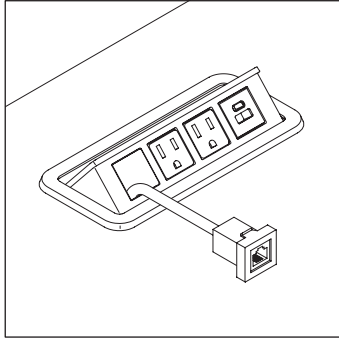


Figure 4

	
<b>Data Adapter Plates</b>	
BBB	L-Com Keystone Modular, NETCONNECT and 110 Connect Series Modular Jack, Siemon ZMAX Style, Allen Tel Versa Tap Series, Leviton Quick Port Series, Belden REVConnect, HDMI Adapter Cable.
CCC	Hubbell Nextspeed Keystone Series, ADC Truenet Series
DDD	Blank (no coupler/jack)
EEE	Ortronics Tracjack Series
FFF	Panduit Mini-Com Series
HHH	Video Monitor Jack/DB-15

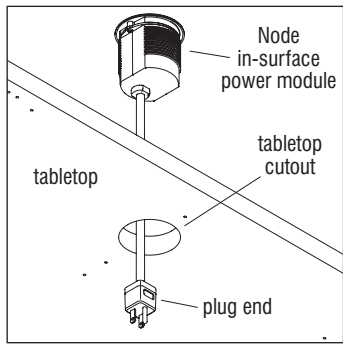
Detail K



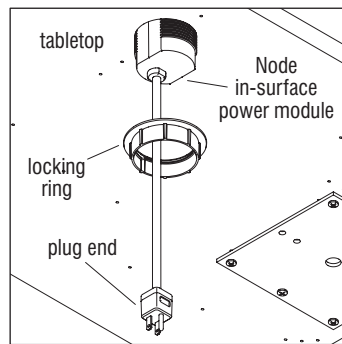
Detail L



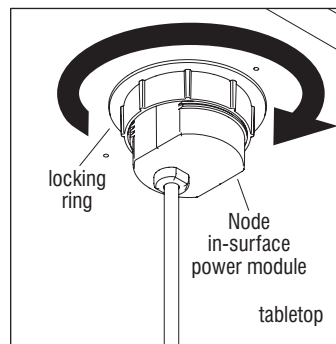
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



Detail M - (underside view)



Detail N - (underside view)



Detail O - (underside view)

#### Node In-Surface Power Module Installation

1. With the assembled table in the upright position, orient the Node in-surface power module consistently straight, as shown and route the plug end down through the tabletop cutout. Press the module down completely into the cutout assuring it is straight, and consistent with other tables, if being assembled (Figure 4 & Detail M).
2. Guide the locking ring up the power cord to the Node in-surface power module, then thread the locking ring up the power module, tight to the underside of the tabletop (Details N & O).
3. Assure that the power module is straight as desired on the tabletop. Hold the power module by hand from underneath, then more completely tighten the locking ring by using a large locking pliers, or a hammer and flat blade screwdriver to tap on a ridge of the ring to rotate and tighten as illustrated (Detail O).
4. Proceed to "Velcro® Wire Manager Installation" instructions on page 43.

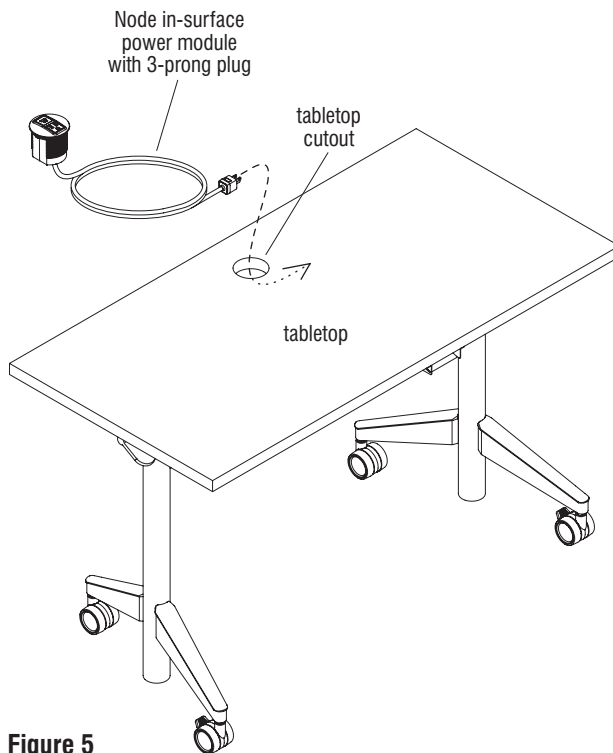


Figure 5

## ■ Pirouette HA Tables - Grommets

### Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

### Grommet Overview

**Note:** Although the figures throughout this "Grommet" instructions illustrate a pneumatic-adjustable height table, the instructions apply to all Pirouette HA tables. Your configuration may vary.

**Note:** If the tables being assembled require a Dean or Nacre grommet installed into any tabletop cutouts, proceed to "Dean & Nacre Grommet Installation" instructions below. If a Node grommet is required, proceed to "Node Grommet Installation" instructions on this page.

### Dean & Nacre Grommet Installation

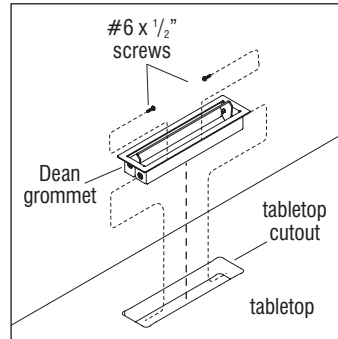
1. Position the Dean or Nacre grommet above the tabletop cutout with the lid opening towards the user (Figure 1 & Detail A or B).
2. Push the grommets into each cutout, tapping lightly with a rubber mallet if required. Use caution to avoid scratching the grommet (Figure 1 & Detail A or B).
3. Secure the grommet to the tabletop by inserting two #6 x 1/2" screws through the holes on the inside of the module into the cut edge of the top (Detail A or B).
4. If a modesty panel is to be installed, proceed to "Modesty Panel Installation" instructions on page 46. If no modesty panel is to be installed, move the table to the final location of use.

### Node Grommet Installation

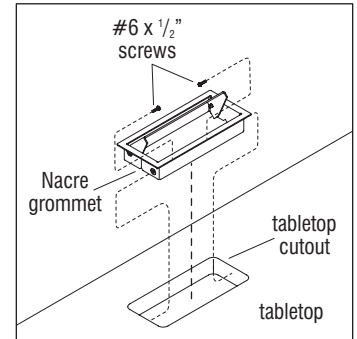
1. Position the Node grommet above the tabletop cutout as illustrated (Figure 1 & Detail C).
2. Push the grommet into the cutout, tapping lightly with a rubber mallet if required. Use caution to avoid scratching the grommet (Figure 1 & Detail C).
3. Secure the grommet to the tabletop by inserting one #6 x 1/2" screw through the hole on the inside of the

module into the cut edge of the top (Detail C).

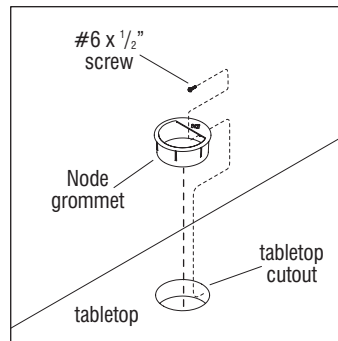
4. If a modesty panel is to be installed, proceed to "Modesty Panel Installation" instructions on page 46. If no modesty panel is to be installed, move the table to the final location of use.



Detail A - Dean Grommet



Detail B - Nacre Grommet



Detail C - Node Grommet

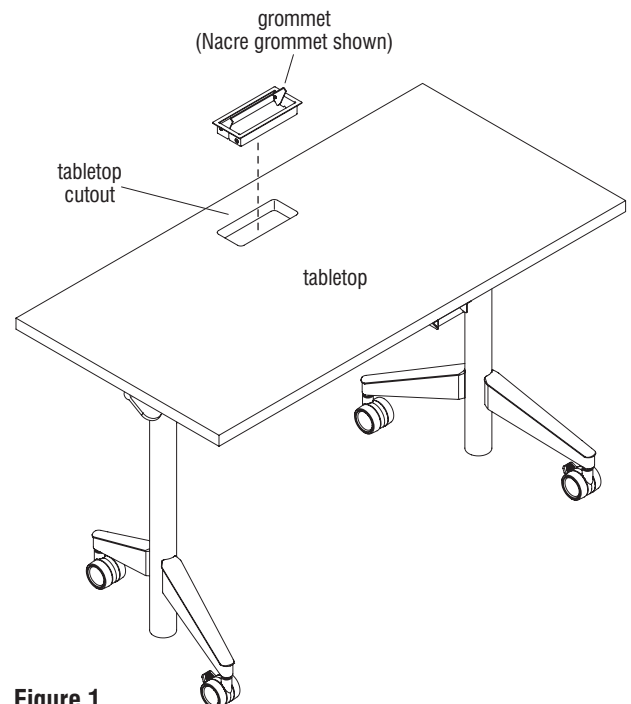
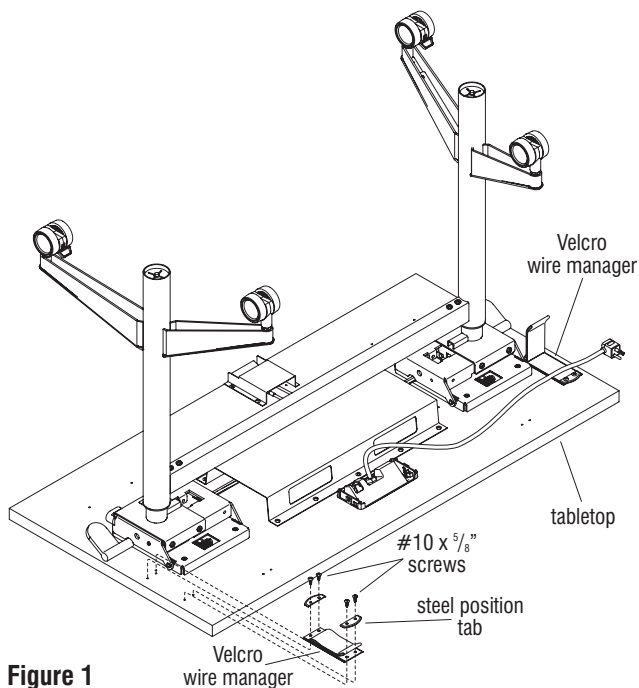


Figure 1



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



**Figure 1**

#### **Velcro® Wire Manager Installation**

**Note:** Although the figures throughout the "Wire Management" instructions illustrate a pneumatic-adjustable height table, the instructions apply to all Pirouette HA tables. Your configuration may vary.

1. If the table being assembled consists of a power module or grommet with a flip-top cover, make sure the cover is closed, then carefully rotate the table to be upside down on a soft, protective surface.
2. Position the two Velcro® wire managers over the pre-drilled holes in the underside of the tabletop where illustrated. Locate and place two steel position tabs, one at each end over the mounting holes in the wire manager, then secure using four #10 x 5/8" screws, through the two position tabs, wire manager mounting holes and into the tabletop. Do not over-tighten (Figure 1 & 2).
3. Strap in the desired cords using the installed Velcro wire manager (Figure 1).
4. Power modules with 3-prong plugs utilize cord strain relief clips to restrain the power module cable along the desired path underneath the tabletops. If optional strain relief clips are desired, proceed to "Strain Relief Clip" instructions on the next page, otherwise proceed to "Vertical Wire Manager Installation" instructions on page 45.

## ■ Pirouette HA Tables - Wire Management

### Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

#### Strain Relief Clip Installation

**Note:** The instructions below illustrate pre-drilling of mounting hole locations for cord strain relief clips, but unused pre-drilled holes at the underside of the tabletop may be used if desired. Install strain relief clips frequently to restrain the power module cables along the desired path underneath the tabletop. Your configuration may vary.

1. Locate strain relief clips and position them at the desired locations. Using the clip as a template, mark the desired mounting hole locations, then move the clips away (Figure 2 & Detail A).
2. Carefully bore a  $\frac{1}{8}$ " pilot hole at the center of each marked location, underneath the worksurface using a cordless power drill. Take care to not drill too deep, piercing the worksurface (Figure 2 & Detail A).
3. Insert the cable into the openings of the clips. Secure the clips to the tabletop using one  $\#10 \times \frac{3}{4}$ " screw per clip (Figure 3 & Detail A).

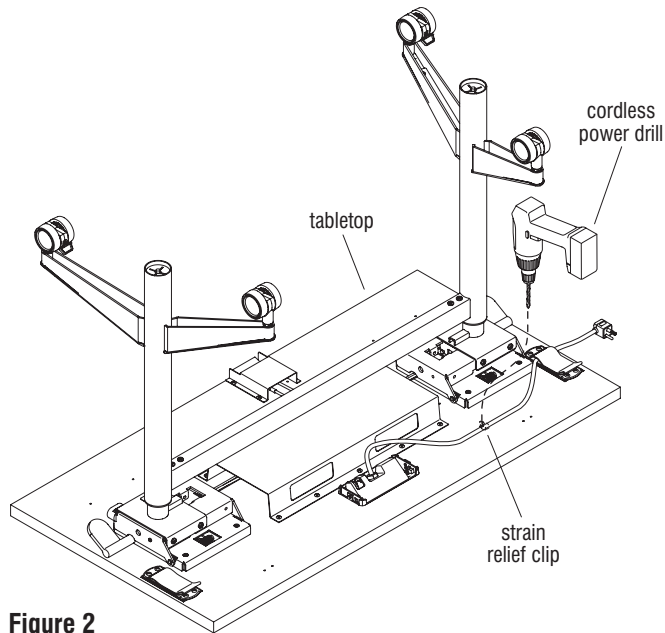
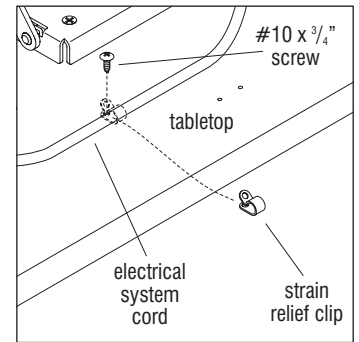


Figure 2



Detail A

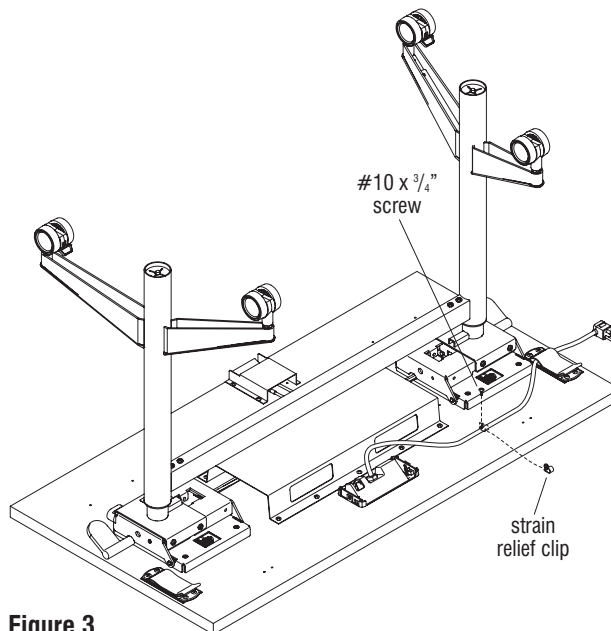


Figure 3





Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

#### Vertical Wire Manager Installation

1. Route the power cord along the leg, then snap the wire manager to the post with the cord in between. Vertical wire manager easily snaps on and off the leg, to add or reconfigure cords (Figure 4).
2. If the table being assembled requires an optional modesty panel, proceed to "Modesty Panel Installation" instructions on page 46, otherwise proceed to "Connections to Power Source - Power Modules with 3-Prong Plug" instructions on page 47.

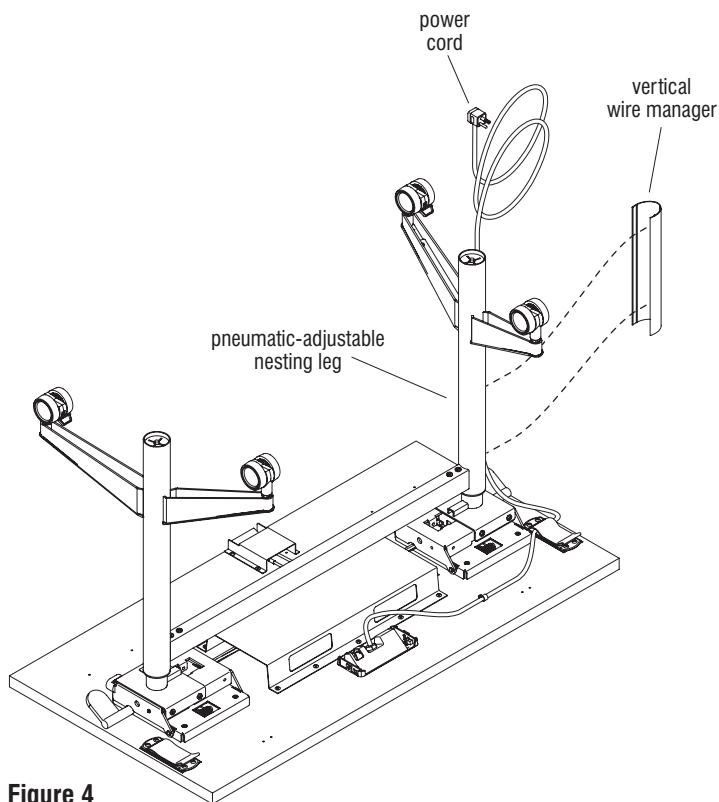


Figure 4

## ■ Pirouette HA Tables - Modesty Panel

### Assembly Instructions



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

### Modesty Panels Installation (optional)

**Note:** Although the figures throughout this "Modesty Panel" instructions illustrate a pneumatic-adjustable height table, the instructions apply to all Pirouette HA tables. Your configuration may vary.

1. Position the modesty panel down near the back edge of the tabletop where it will install. The wire manager on the modesty panel should face up, and the notches exposing the pivot rod in the panel should face the back edge of the table as illustrated (Figure 1 & Detail A).
2. Locate the mounting clips and position them over the pivot rod and to the inside of the weld bump as illustrated. For longer modesty panels, an additional two clips are used, one at each side of the center support rod into modesty panel. The tabs with the mounting hole must face the modesty panel, or disassembly and reassembly will be required (Figure 1 & Details A & B).
3. Move the modesty panel with clips up to align the mounting holes of the clips with the pre-drilled holes in the table. The mounting holes will be close to the edge. Screw each clamp to the underside of the table with a #10 x 3/4" wood screw per clamp as illustrated (Figure 2 & Detail C).

**Note:** Pirouette Tables less than 72" in length will use two clamps per modesty panel, but 72" long tables will use three clamps to the tabletop.

4. Carefully turn the table to the upright position. If the Pirouette HA table being assembled contains power, proceed to "Connections to Power Source - Power Modules with 3-Prong Plug" instructions on page 47, otherwise move the table to the final location of use.

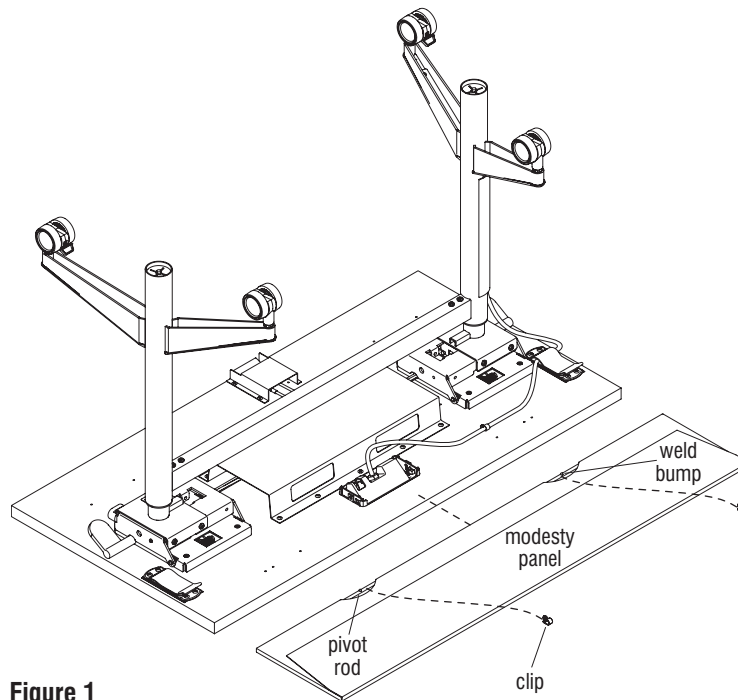


Figure 1

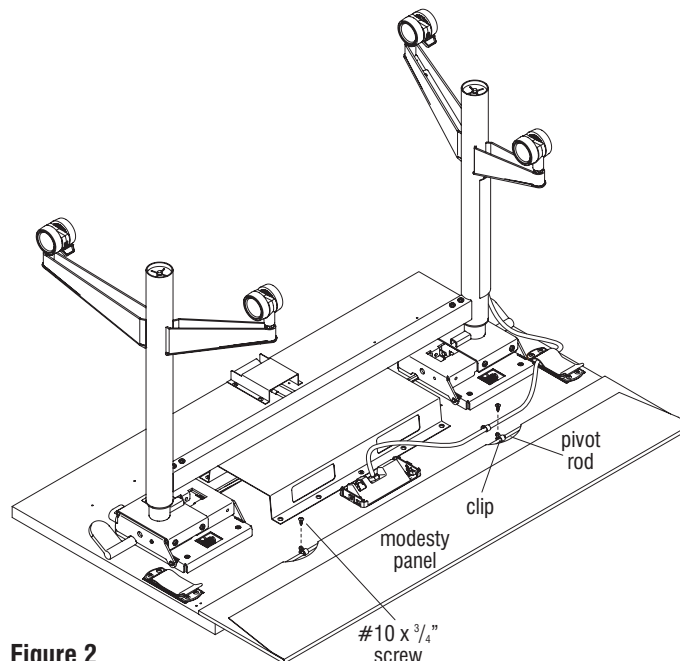
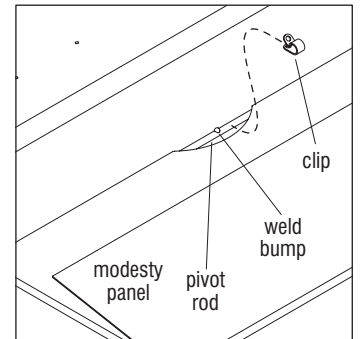
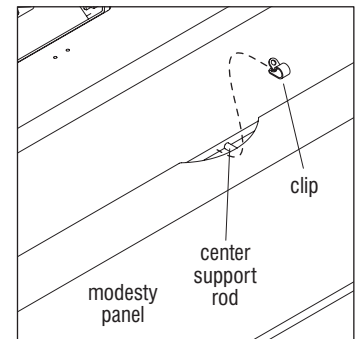


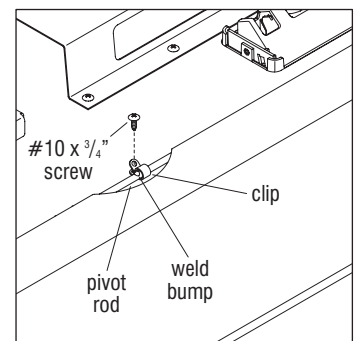
Figure 2



Detail A



Detail B - 72" Modesty Panel



Detail C

### GROUNDING INSTRUCTIONS

This product is for use on a nominal 120-volt circuit and has a grounding plug that looks like the plug illustrated in Detail A. Make sure that the product is connected to an outlet having the same configuration as the plug. No adapter should be used with this product.

### SAVE THESE INSTRUCTIONS

#### IMPORTANT SAFETY INSTRUCTIONS

When using an electrical furnishing, basic precautions should always be followed, including the following:

Read all instructions before using (this furnishing).

**DANGER:** To reduce the risk of electric shock:

1. Always unplug this furnishing from the outlet before cleaning or servicing.

**WARNING:** To reduce the risk of burns, fire, electric shock, or injury to persons:

1. Unplug from outlet before putting on or taking parts off parts.
2. Close supervision is necessary when this furnishing is used by, or near children, invalids, or disabled persons.
3. Use this furnishing only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.
4. Do not use outdoors.
5. **WARNING:** Risk of Electric Shock - Connect this furnishing to a properly grounded outlet only. See Grounding Instructions.
6. **WARNING:** Risk of Electric Shock, Fire, and Injury - Review instructions to confirm all critical components are installed and function safely.

**Electrical Rating:** 120V 15 A

**WARNING:** Risk of Injury - Maximum Load 4.7 lb per inch width.



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

### Connections to Power Source - Power Modules with 3-Prong Plug

**Note:** Although the figures throughout this "Connections to Power Source" instructions illustrate a pneumatic-adjustable height table with Nacre in-surface pop-up power module, the instructions apply to all Pirouette HA tables and all available power modules. Your configuration may vary.

1. Place tables at their final location and lock the two front, user side casters in place on each table. (Figure 1).
2. Plug the power module into an outlet only after all other components have been installed.

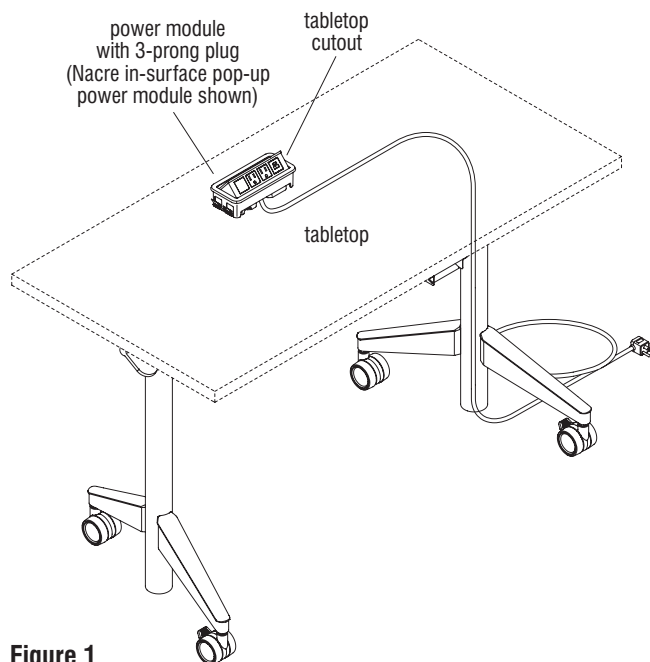
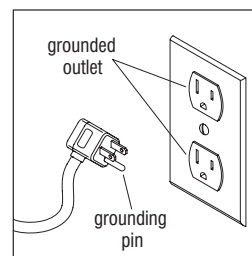


Figure 1



Detail A

## ■ Pirouette HA Tables - Troubleshooting

### Assembly Instructions

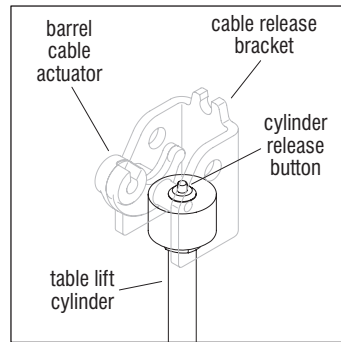


Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

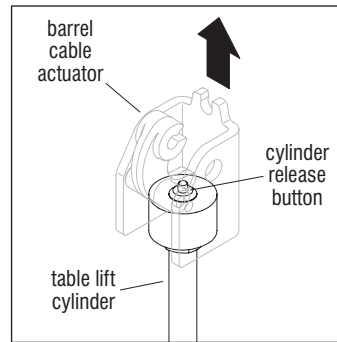
### Lowering Pneumatic-Adjustable Leg Cylinder

**Note:** Although the figures throughout this “Troubleshooting” instructions illustrate a pneumatic-adjustable height table, the instructions apply to all Pirouette HA Pneumatic-Adjustable tables. Your configuration may vary.

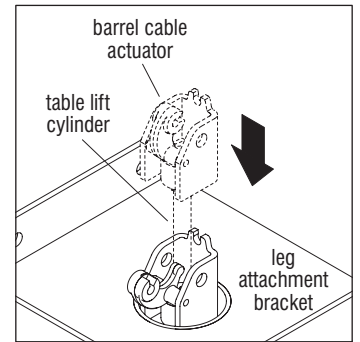
1. If the barrel cable actuator presses down onto the cylinder release button on top of the table lift cylinder, the cylinder will rise, and must be lowered back down (Figure 1 & Detail A).
2. Flip the barrel cable actuator up as illustrated (Detail B). Press the barrel cable actuator onto the cylinder release button to raise the table lift cylinder to its maximum height (Figure 2 & Detail B).
3. Press the barrel cable actuator firmly onto the cylinder release button and push the cylinder straight down with force until the cable release bracket weldment reaches the leg attachment bracket, then quickly release the actuator from the button to stop the cylinder from rising up. If the button is released before the cable release bracket weldment reaches the leg attachment bracket, go back to step 2 to start the process over. If the cable release bracket is lowered to within 1” inch of its proper lowest position, the table can still be assembled properly. Proceed back to “Nesting Support Assembly Installation” Instructions on page 5 or “Pneumatic-Adjustable Fixed Leg Assembly Installation” instructions on page 19 (Figure 3 & Detail C).



Detail A



Detail B



Detail C

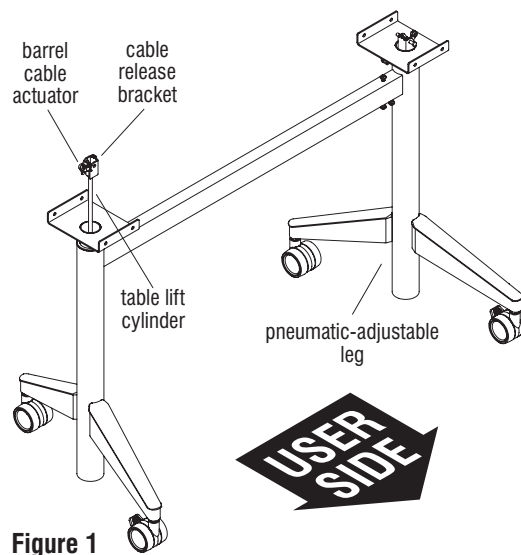


Figure 1

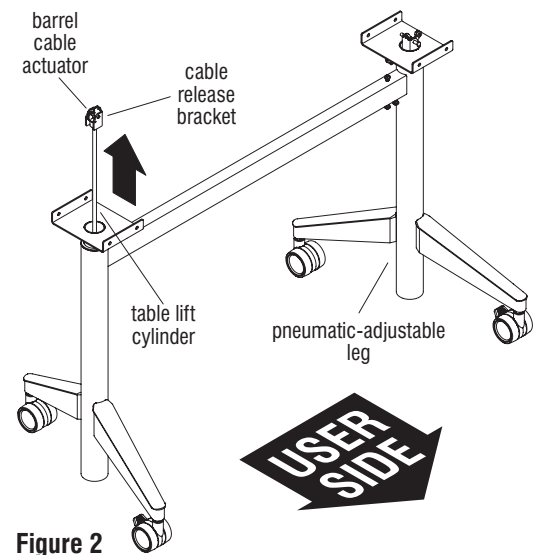


Figure 2

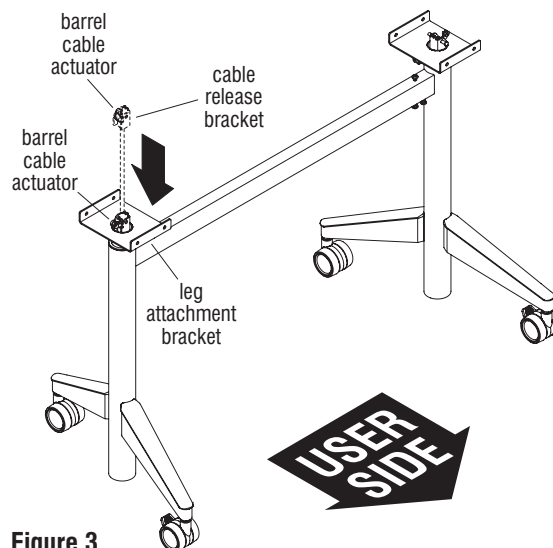


Figure 3









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