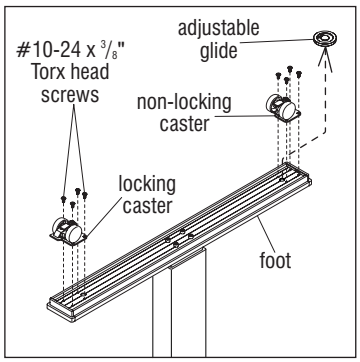
Assembly Instructions ■

Toggle® Tables

Dual Motor Height Adjustable Base, Model EL

April 2017

Motor-Operated Furnishing
-FOR COMMERICAL USE ONLY-



Detail A

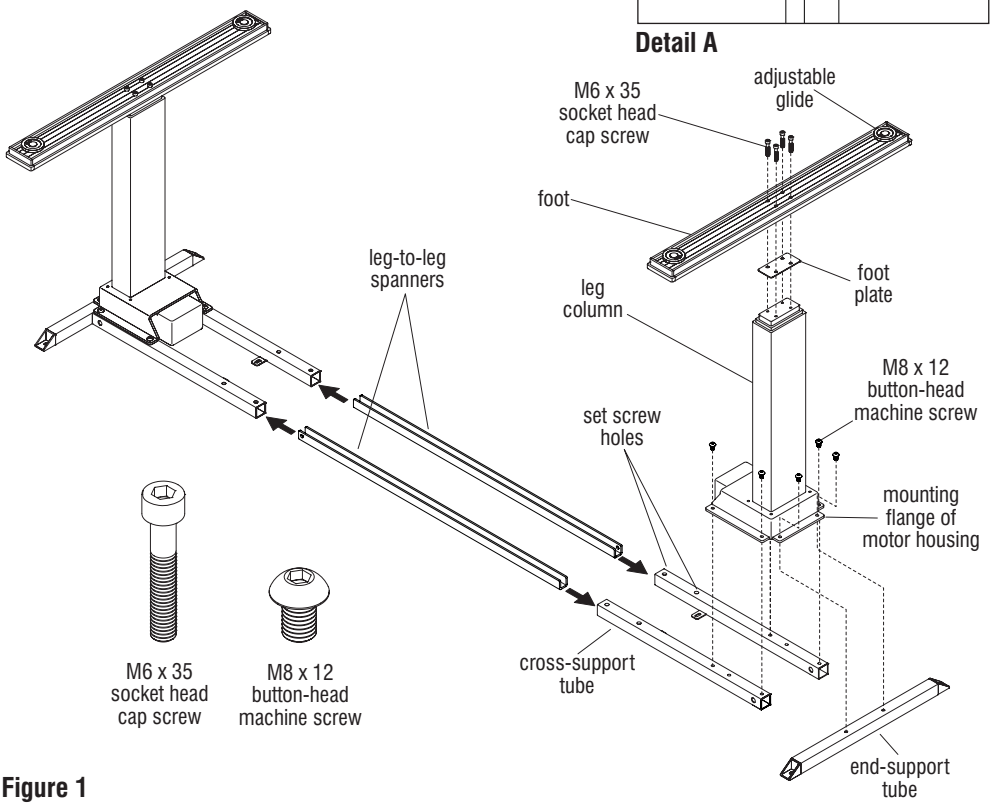


Figure 1

ATTENTION: Following assembly, **table must be "zero set" prior to being placed into service**. Failure to do so can cause table to malfunction.

Table "Zero Setting": Press and hold the Up button for two seconds then release. Next, press and hold the Down button until table has reached its lowest position then release Down button. Then, press the Down button again and hold for approximately 10 seconds. The table now re-set at its "Zero Setting" position and is ready to operate.

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.

1. Carefully remove contents from packaging, set out on a soft, clean surface and refer to Figure 1 to identify the parts required for assembly.

2. Position two cross-support tubes (with mounting tabs down and facing inward), and one end-support tube out as illustrated. Place a leg column assembly over the three tubes, aligning all six mounting holes on the flange of the column with the mounting holes on the three tubes. Using six M8 x 12 button head machine screws torqued to 9.5 ft/lbs, secure the flange of the leg column to the three base tubes (Figure 1).

3. Mount the foot to the leg column by first positioning a plastic foot plate over the mounting location on the leg column. The plastic foot plate should be oriented so the raised flange faces down on the leg to nest the foot plate in place. Position a foot over the flat face of the foot plate, aligning holes in underside of the foot with the mounting holes in the column, and secure foot to column with four M6 x 35 socket head cap screws. Torque to 7.5 ft/lbs (Figure 1).

4. If casters are required, twist both adjustable glides out of the foot. Locking and non-locking casters are supplied. Locking casters should be located toward the front, user side of the table for easy access while the non-locking casters are located to the back. Using four #10-24 x 3/8" Torx screws, carefully secure the casters to the foot (Detail A).

5. Repeat steps 2 & 3 for second leg assembly and step 4 if casters are required (Figure 1).

6. Position two leg-to-leg spanners with channel opening face up, then slide both spanners into the open ends of each base tube of both base assemblies. Slide bases together, but do not secure with set screws at this time (Figure 1).

Furnishing Knowledge®

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.

CAUTION: If Channels (Wire Troughs) are used they are not to be used for routing extension cords. Power supply cords are not to be routed across or through more than one complete unit/worksurface.

7. Carefully turn table top upside down on a soft protective surface and set the base assembly onto the underside of the top. Position one base end, so base mounting holes align with table top mounting holes, and secure base to top using four M5.5 x 22 pan head screws. Slide the other base end into position to align base mounting holes to the table top holes and secure with four M5.5 x 22 pan head screws. Insert and tighten eight M10 x 25 set screws as illustrated, through the cross support tubes and down to the leg-to-leg spanners. Torque to 4.5 ft/lbs to secure (Figure 2).

8. For 24" deep tables, the control box must be mounted to the underside of the table top centered between the cross-tube assemblies. Position the control box over the pre-drilled mounting holes and secure using two M5.5 x 22 pan head screws (Figure 2).

9. For 30" & 36" deep tables, the control box may be mounted to the underside of the table top, either at the center of the top between the cross-tube assemblies (Figure 2), one of two locations near the front of the table (Figure 3), or centered behind the cross-tube assemblies (Figure 7). If using one of the two front locations, the built in switch on the control box will eliminate the requirement for the key pad (Figure 3).

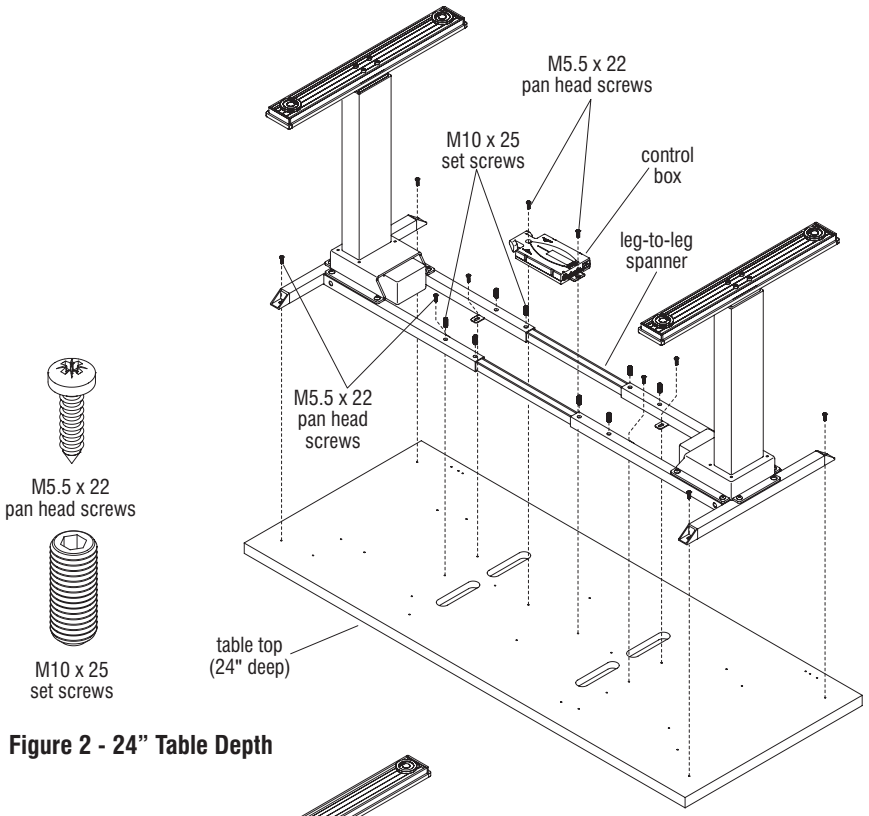


Figure 2 - 24" Table Depth

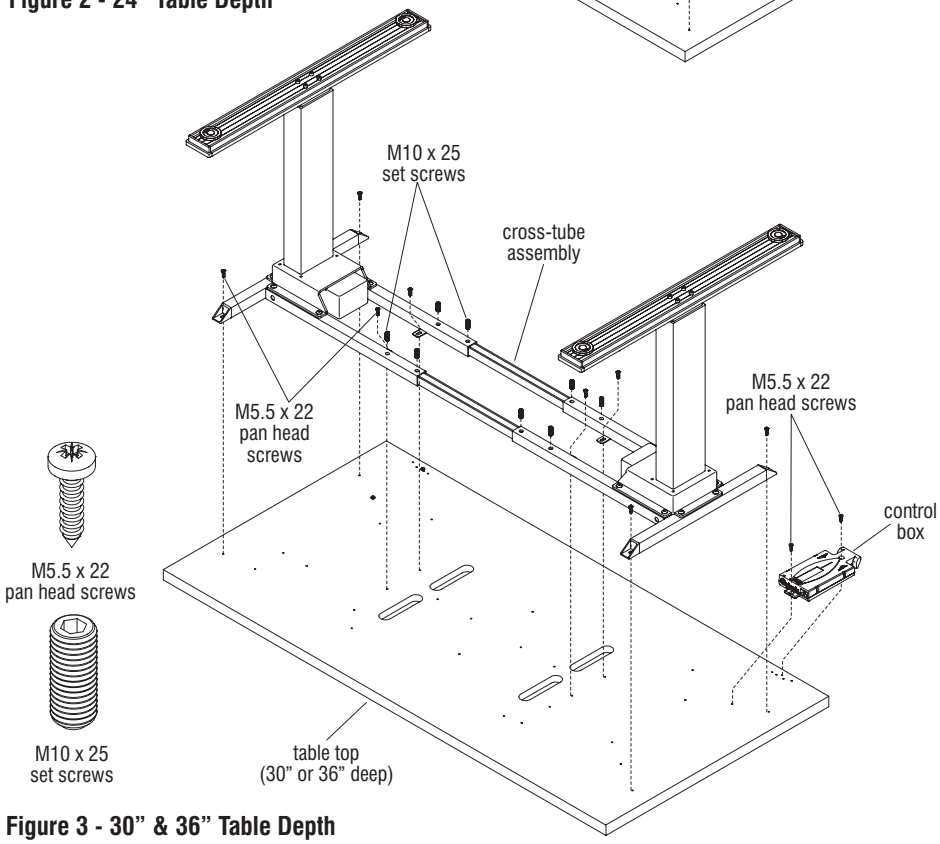


Figure 3 - 30" & 36" Table Depth

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 C. 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.

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.

Table Wiring

Note: Control cables can be routed differently than shown. 24" deep tables must have the control box mounted between the cross-tube assemblies, which requires installation of the "optional key pad" (Figure 4). All 30" & 36" tables may have the control box mounted either between the cross-tube assemblies, at one of the two locations behind the cross-tube assemblies or one of two locations at the front of the table (Detail A). Mounting to the front of the table does not require the use of the "optional key pad". Follow directions appropriate to control box mounting location.

Note: When plugging leg control cord ends in, make sure to push in straight to avoid bending any pins in the electrical control box or leg motor. The plug will click when it is locked into place.

Note: If any plug needs to be removed, make sure power cord is un-plugged from power source outlet first. Then push down on release tab on the control cable plug while simultaneously pulling on the end to remove from the socket.

1. **Leg Cord - Long:** Plug the longer leg control cord into one of the two rectangular sockets on the control box, then route cord to the leg farthest from control box. Use cut outs in the table to route under the cross tubes and/or use zip ties secured with screws at pre-drilled locations. Plug other end of the longer leg control cord into the open socket on leg motor (Figure 4).

2. **Leg Cord - Short:** The next rectangular socket on the control box is utilized by the shorter leg control cord. Plug short leg cord into control box and route to the leg motor socket that is closest to the control box. Use cut outs in table to route under the cross tubes. Plug other end of the shorter leg control cord into open socket on leg motor (Figure 4).

3. **Optional Key Pad:** The key pad can be mounted on the front side of table top (Figure 4). Using pre-drilled holes, secure key pad to table top with two M4.2 x 19 flat head screws at 1.5 ft/lbs. **Note:** Do not overtighten screws. Once key pad is mounted, route attached cord to control box. Use Figure 4 for cord routing reference and for the optimal usage of zip-tie points. Once the key pad cord is routed to control box, plug cord into the round socket on box (Figure 4).

   Note: Make sure all cables are routed correctly and plugged into correct sockets on control box and leg motor locations before installing zip-ties.

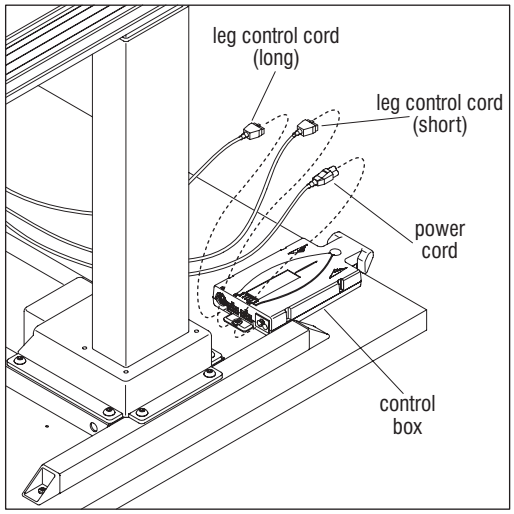
4. **Zip-ties:** Six zip-ties are included for keeping cords tight to table, but it is not necessary to use all six. Using Figure 4 for reference, wrap the zip-ties around the loose cords and then mount the zip-tie to the table top with a M5.5 x 22 pan head screw into the pre-drilled holes. The zip-ties have a built in mounting hole which must lay flat onto surface. Make sure zip-ties and cables are snug before moving to next step.

5. **Power Cord:** The final cord to be installed is the power cord. Plug power cord into remaining open socket which is tri-lobe in shape. Cord should not be zip-tied or routed through cut outs on table (Figure 4). Do not plug it into power source at this time.

6. If optional wire trough was specified for installation, go now to page 4. If no wire trough is specified, carefully turn table to the upright position with the help of another person. Adjust glides on feet to level the table. Plug the power cord into a grounded outlet power source (Detail C). **Note:** Power cord must have enough slack so the table can cycle through its entire range of motion.

7. **The table must be "zero set" prior to being placed into service. Refer to table "zero setting" instructions in the trouble shooting guide on page 6.**

8. If the table is not operating properly, see the trouble shooting guide in this instruction.



Detail B - 30" & 36" Table with Front Control Box

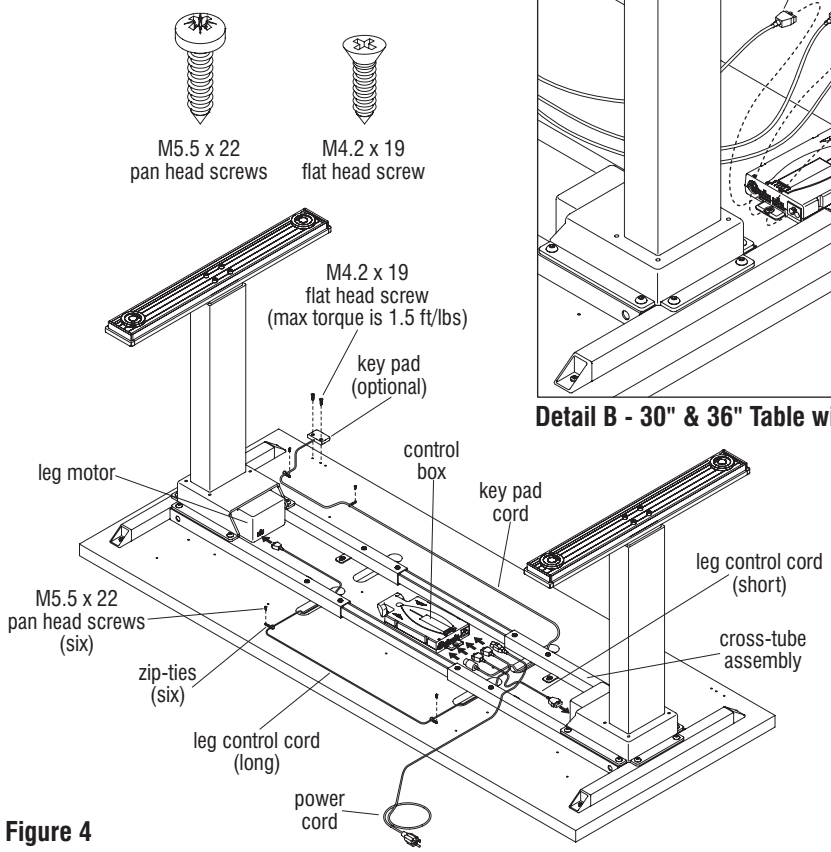
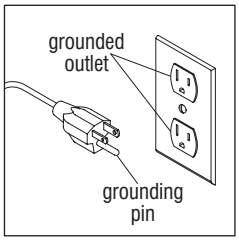


Figure 4



Detail C

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.

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 C. 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.

Wire Trough (Optional)

Note: The wire trough is an optional part that must be ordered separately.

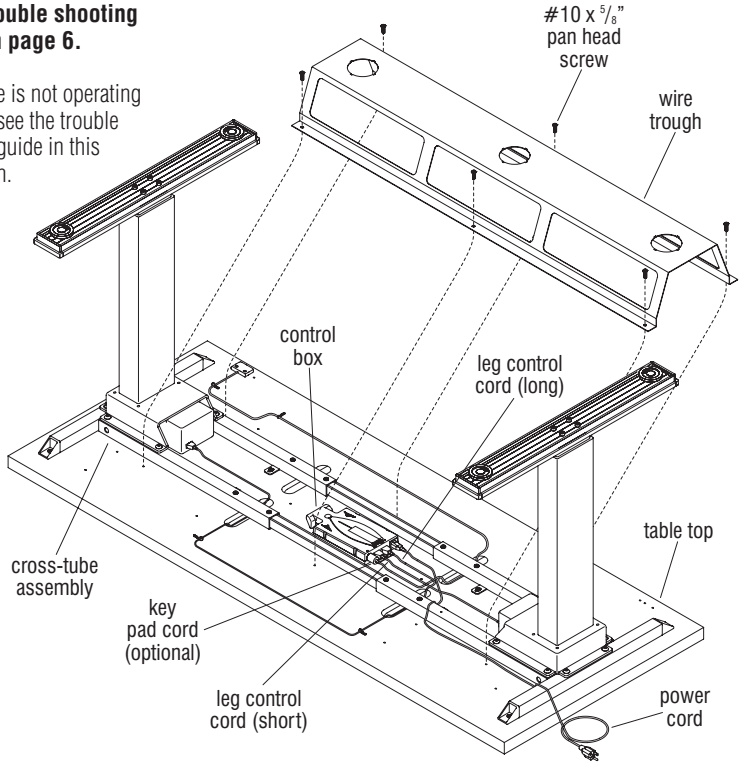
Note: Control cables can be routed differently than shown. The control box can be mounted to the underside of table tops 24" in depth at one location, between the cross-tube assembly (Figure 5). Control boxes mounting under table tops 30" or 36" in depth can mount in one of five mounting locations, one being the same as the control box mounted between the cross-tube assembly on 24" table tops (Figure 5). If the control box is mounted between the cross-tube assembly, reference figure 5 for placement of the wire trough. A 30" or 36" depth table top is the only depth which will allow a control box to be in the following locations. If the control box is mounted to the front user side of the table, reference figure 6. Mounting to the front of the table does not require the use of the "optional key pad" (Figure 6). If the control box is mounted behind the cross-tube assembly, reference figure 7.

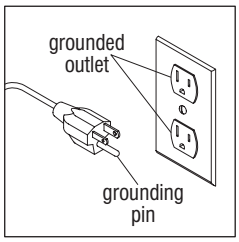
9. Align the wire trough holes to the appropriate holes in the table top. Using six #10 x $^5/_8$" pan head screws, secure the wire trough to the table top as illustrated (Figure 5, 6, & 7).

10. With help from another person, carefully turn table to the upright position. Adjust glides on feet to level the table. Plug the power cord into a grounded outlet power source (Detail F). **Note:** Power cord must have enough slack so the table can cycle through its entire range of motion.

11. **The table must be "zero set" prior to being placed into service. Refer to table "zero setting" instructions in the trouble shooting guide on page 6.**

12. If the table is not operating properly, see the trouble shooting guide in this instruction.





Detail C

Figure 5 - Centered Wire Trough with Control Box Between Cross-Tube Assembly

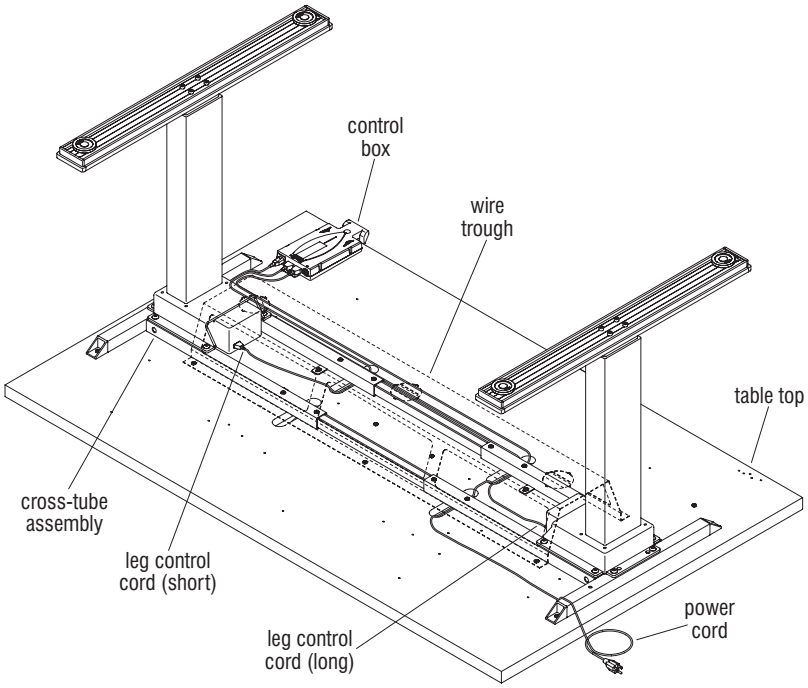


Figure 6 - Centered Wire Trough with Control Box Front User Side, 30" or 36" Table Depth

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.

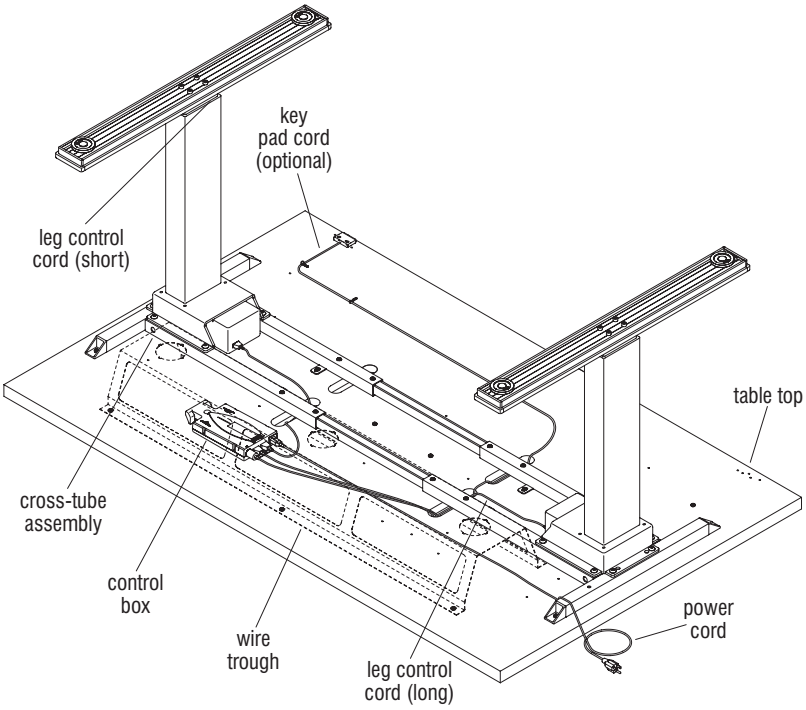


Figure 7 - Behind Cross-Tube Assembly Wire Trough, 30" or 36" Table Depth

Model Number	Operating Load Capacity
TOGL2448EL	220 lbs.
TOGL2460EL	210 lbs.
TOGL2472EL	200 lbs.
TOGL3048EL	210 lbs.
TOGL3060EL	200 lbs.
TOGL3072EL	185 lbs.
TOGL3648EL	200 lbs.
TOGL3660EL	185 lbs.
TOGL3672EL	170 lbs.
TOGLC3048EL	180 lbs.

Table Operating Capacity Chart

Wire Trough (Optional)

Note: The wire trough is an optional part that must be ordered separately.

Note: Control cables can be routed differently than shown. The control box can be mounted to the underside of table tops 24" in depth at one location between the cross-tube assembly (Figure 5). Control boxes mounting under table tops 30" or 36" in depth can mount in one of five mounting locations, one being the same as the control box mounted between the cross-tube assembly on 24" table tops (Figure 5). If the control box is mounted between the cross-tube assembly, reference figure 5 for placement of the wire trough. A 30" or 36" depth table top is the only depth which will allow a control box to be in the following locations. If the control box is mounted to the front user side of the table, reference figure 6. Mounting to the front of the table does not require the use of the "optional key pad" (Figure 6). If the control box is mounted behind the cross-tube assembly, reference figure 7.

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.

Electrical Rating:
Input: 120V/60HZ/5A **Output:** 216VA/24V

WARNING: Risk of Injury - Do not exceed recommended operating loads. See Table Operating Capacity Chart on page 5.

Duty Cycle: 10% per hour. (2 minutes "ON" and 18 minutes "OFF" at continuous operation under load.

This table is not designed for continuous operation. Table operation must not exceed duty cycle.

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.

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.

Toggle Troubleshooting Guide

**** Table "Zero Setting"**

Press and hold the Up button for two seconds then release. Next, press and hold the Down button until table has reached its lowest position then release Down button. Then, press the Down button again and hold for approximately 10 seconds. The table now re-set at its "Zero Setting" position and is ready to operate. **Note:** Intellect System Protection (ISP) detection is disabled during "Zero Setting" Operation.

Warning: In spite of Intellect System Protection (ISP) being in place, there may still be a risk of pinching in exceptional cases, as it is not only the control unit, but also the interaction between the mechanical and electrical systems that is responsible for cutting out the motor. In addition, the mechanical components, motor and ambient conditions all affect cut-out sensitivity. KI and the control unit manufacturer, cannot therefor eliminate this residual risk completely or accept any liability.

Symptom	Reason	Corrective Measure
Table does not move.	• Incorrect or no voltage.	• Verify there is power to the table. Make sure the table is properly plugged into a functioning power source. Make sure the power cord is fully engaged into the socket on the control box.
	• Table requires "Zero Setting".	• Perform Table "Zero Setting" **.
	• One of more component connectors has come disconnected or not fully connected.	• Verify all connectors are securely connected to legs and to control box. Disconnect and re-connect each one to ensure it is properly seated, then preform a Table "Zero Setting" **.
	• Damaged components or connectors.	• Check for visible damage to all connectors and connector receptacles.
	• Table has exceeded its duty cycle.	• Allow table to cool.
Table Base moves erratically or is tilted (one leg moves, one does not).	• Control box is not properly synchronized with the legs.	• Ensure that all cables connections are fully seated. Then perform a Table "Zero Setting" **.
Table base stops and will only move down (or up).	• Table may be at its highest (or lowest) position (range 26" at the lowest to 52" at the highest) and then can only go down (or up).	• Press the other switch button.
	• Table or an object on the table is colliding with an obstruction.	• Perform a visual check and clear any obstructions.
	• Table is overloaded or the weight on the table is not evenly distributed.	• Reduce load and attempt to adjust the table.
	• Control box is not properly synchronized with the legs.	• Ensure that all cable connections are fully seated. Then perform a Table "Zero Setting" **.
All above corrective measures have been applied and table still does not move.	• Control Box is damaged.	• Forward the part number (P/N) off the control box label (located next to receptacles) to your Customer Service Representative.
Table does not reach its correct highest (52") or lowest (26") position.	• Table limits may need to be programmed.	• Contact your customer service representative.

Toggle® Tables - Dual Motor Height Adjustable Base, Model EL

Assembly Instructions

1330 Bellevue Street • P.O. Box 8100 • Green Bay, WI 54308-8100 • Tel 1-800-424-2432 • www.ki.com

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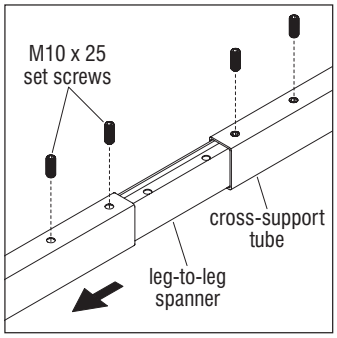
Assembly Instructions ■

Toggle® Tables

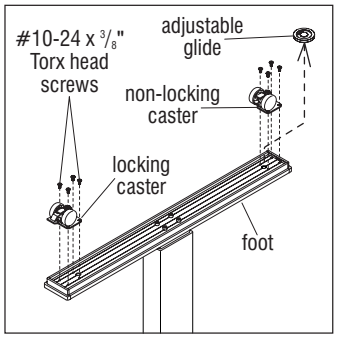
Single Motor Height Adjustable Base, Model SM

March 2017

Motor-Operated Furnishing
-FOR COMMERICAL USE ONLY-



Detail A



Detail B

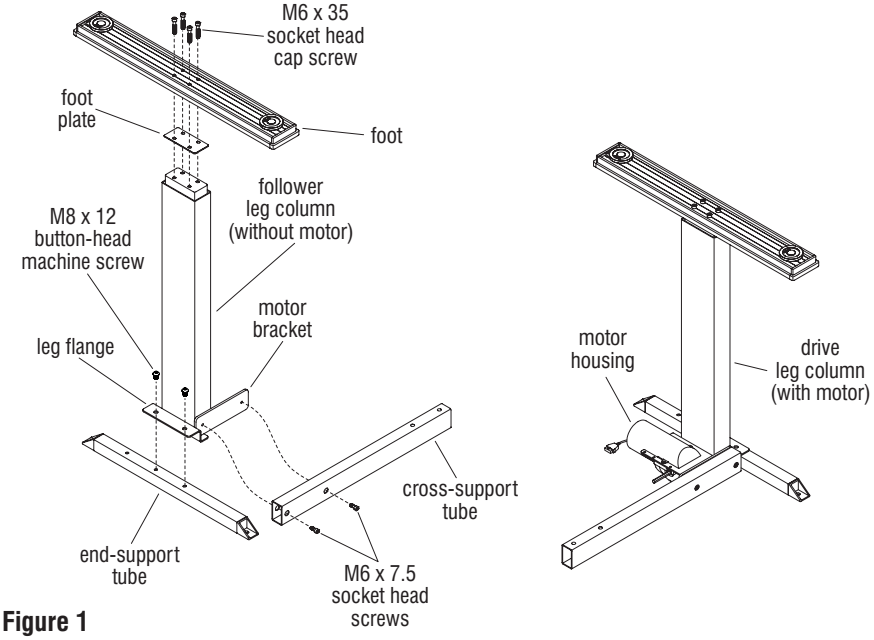
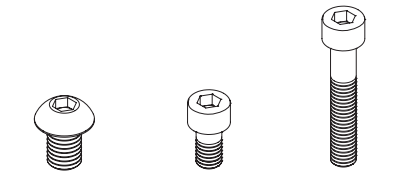


Figure 1

ATTENTION: Following assembly, **table must be "zero set" prior to being placed into service**. Failure to do so can cause table to malfunction.

Table "Zero Setting": Press and hold the Up button for two seconds then release. Next, press and hold the Down button until table has reached its lowest position then release Down button. Then, press the Down button again and hold for approximately 10 seconds. The table now re-set at its "Zero Setting" position and is ready to operate.



M8 x 12 button-head machine screw | M6 x 7.5 socket head cap screw | M6 x 35 socket head cap screw

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.

1. Carefully remove all contents from packaging, set out on a soft, clean surface and refer to Figure 1 to identify the parts required for assembly.

2. Take the cross-support tube assembly in hand and unscrew four M10 x 25 set screws, then slide the leg-to-leg spanner out of the support tubes and set aside (Detail A).

3. Position one end-support tube out as illustrated. Place a leg column assembly over the tube, aligning both mounting holes on the leg flange of the column with the two **center** mounting holes on the end-support tube. Using two M8 x 12 screws torqued to 9.5 ft/lbs, secure the flange of the leg column to the end support tube. Using two M6 x 7.5 socket head cap screws, fasten the cross-support tube to the motor bracket of the leg column (Figure 1).

4. Mount the foot to the leg column by first positioning a plastic foot plate over the mounting location on the leg column. The plastic foot plate should be oriented so the raised flange faces down on the leg column to nest the foot plate in place. Position a foot over the flat face of the foot plate, aligning holes in underside of the foot with the mounting holes in the column, and secure foot to column with four M6 x 35 socket head cap screws. Torque to 7.5 ft/lbs (Figure 1).

5. If casters are required, twist both adjustable glides out of the foot. Locking and non-locking casters are supplied. Locking casters should be installed toward the front, user side of the table for easy access while the non-locking casters are located to the back. Using four #10-24 x 3/8" Torx screws, carefully secure the casters to the foot (Detail B).

6. Repeat steps 3 & 4 for second leg assembly and step 5 if casters are required (Figure 1).

Furnishing Knowledge®

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.

7. Position the leg-to-leg spanner with channel opening face up, then slide spanner into the open ends of each base tube of both base assemblies. Slide bases together, but do not secure with set screws at this time (Figure 2).

8. Carefully turn table top upside down on a soft protective surface and set the base assembly onto the underside of the top. Position one base, so base mounting holes align with table top mounting holes, and secure base to top using three M5.5 x 22 pan head screws. Slide the other base into position to align base mounting holes to the table top holes and secure with three M5.5 x 22 pan head screws. Insert and tighten four M10 x 25 set screws as illustrated, through the cross support tubes and down to the leg-to-leg spanners. Torque to 4.5 ft/lbs to secure (Figure 3).

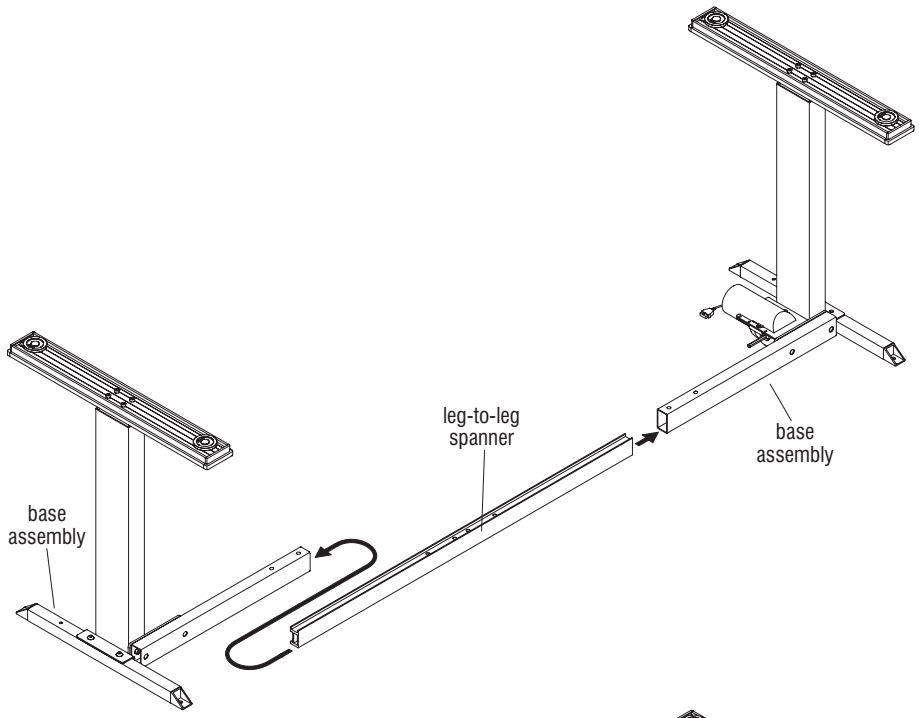


Figure 2

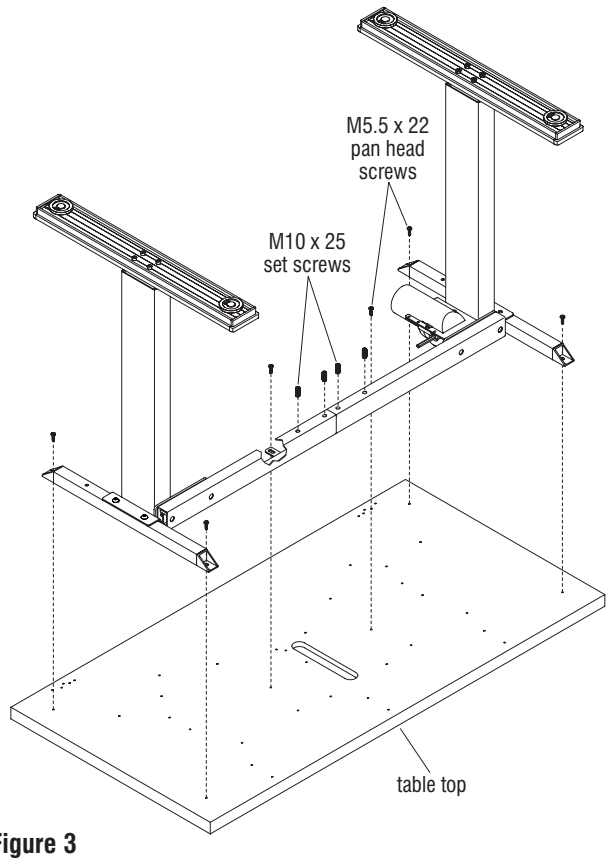
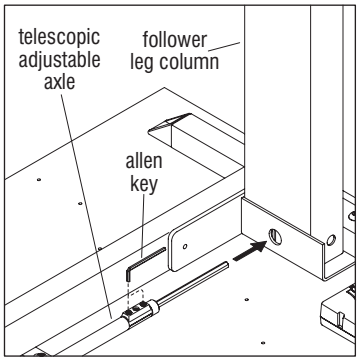


Figure 3

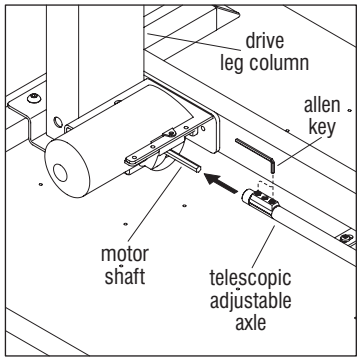
CAUTION: If Channels (Wire Troughs) are used they are not to be used for routing extension cords. Power supply cords are not to be routed across or through more than one complete unit/worksurface.

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.



Detail C



Detail D

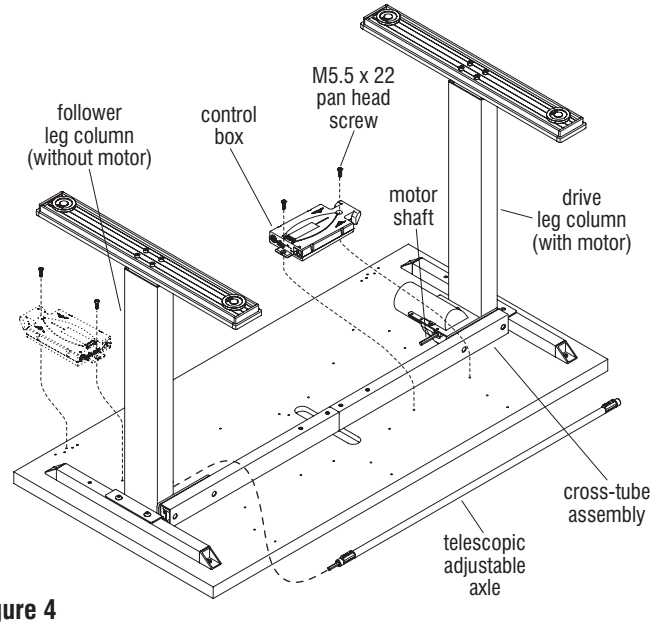


Figure 4

9. Take the telescopic adjustable axle in hand. Loosen the set screws at the male end of the axle so that the end can slide to the length desired (Detail C).

   Note: When mounting the telescopic adjustable axle, make sure the legs are at the lowest position.

10. Insert the male end of the telescopic adjustable axle into the opening in the follower leg column as illustrated (Detail C). Slide the other side of the axle onto the motor shaft of the drive leg column (Detail D). Tighten four set screws on the axle once the axle is seated fully at both ends.

11. Use two M5.5 x 22 pan head screws to secure the control box to the underside of the table top. The control box may be mounted to the underside of table tops 24" in depth at one of three locations, either behind the cross-tube assembly, or at one of two locations near the front of the table. Control boxes mounting on table tops 30" or 36" in depth can mount in the same locations as the 24" table tops as well as an additional fourth mounting location centered behind the cross-tube assembly referenced on page 6, figure 8. If using one of the two front locations, the built in switch on the control box will eliminate the requirement for the optional key pad (Figure 4).

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.

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 F. 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.

Table Wiring

Note: Control cables can be routed differently than shown. The control box may be mounted to the underside of table tops 24" in depth at one of three locations, either behind the cross-tube assembly, or at one of two locations near the front of the table. Control boxes mounting on table tops 30" or 36" in depth can mount in the same locations as the 24" table tops as well as an additional fourth mounting location centered behind the cross-tube assembly referenced on page 6, figure 8. Mounting to the front of the table does not require the use of the "optional key pad".

Note: When plugging leg control cord ends in, make sure to push in straight to avoid bending any pins in the electrical control box or leg motor. The plug will click when it is locked into place.

Note: If any plug needs to be removed, make sure power cord is un-plugged from power source outlet first. Then push down on release tab on the control cable plug while simultaneously pulling on the end to remove from the socket.

12. **Leg Cord:** Plug the leg control cord into the rectangular socket on the control box, then route the cord toward the drive leg. The cut-out in the table, under the cross-tube assembly and/or zip-ties, secured with screws at pre-drilled locations may be used to route the cord. Plug the other end of the leg control cord into the open socket on the leg motor (Figure 5).

13. **Optional Key Pad:** The key pad can be mounted on the front side of table top (Figure 5). Using pre-drilled holes, secure key pad to table top with two M4.2 x 19 flat head screws at 1.5 ft/lbs. **Note:** Do not overtighten screws. Once key pad is mounted, route attached cord to control box. Use Figure 5 for cord routing reference and for the optimal usage of zip-tie points. Once the key pad cord is routed to control box, plug cord into the round socket on box (Figure 5).

Note: Make sure all cables are routed correctly and plugged into correct sockets on control box and leg motor locations before installing zip-ties.

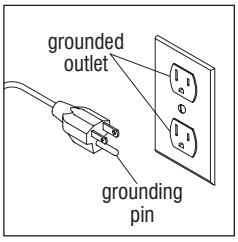
14. **Zip-ties:** Six zip-ties are included for keeping cords tight to table, but it is not necessary to use all six. Using Figure 5 for reference, wrap the zip-ties around the loose cords and then mount the zip-tie to the table top with a M5.5 x 22 pan head screw into the pre-drilled holes. The zip-ties have a built in mounting hole which has to lay flat onto surface. Make sure zip-ties and cables are snug before moving to next step.

15. **Power Cord:** The final cord to be installed is the power cord. Plug power cord into remaining open socket which is tri-lobe in shape. Cord should not be zip-tied (Figure 5). Do not plug it into power source at this time.

16. If optional wire trough was specified for installation, go now to page 5. If no wire trough is specified, carefully turn table to the upright position with the help of another person. Adjust glides on feet to level the table. Plug the power cord into a grounded outlet power source (Detail F). **Note:** Power cord must have enough slack so the table can cycle through its entire range of motion.

17. **The table must be "zero set" prior to being placed into service. Refer to table "zero setting" instructions in the trouble shooting guide on page 7.**

18. If the table is not operating properly, see the trouble shooting guide in this instruction.



Detail F

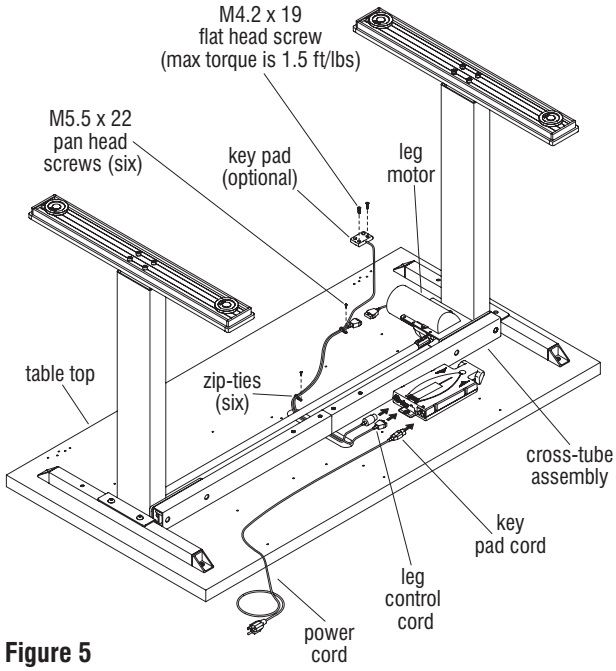
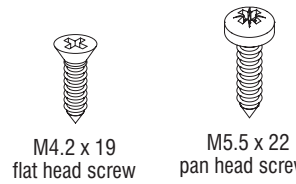
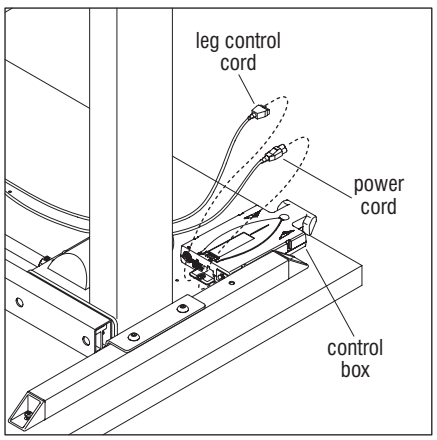


Figure 5





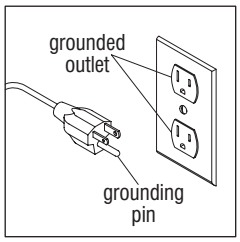
Detail E - Front Control Box

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 F. 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.

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.



Detail F

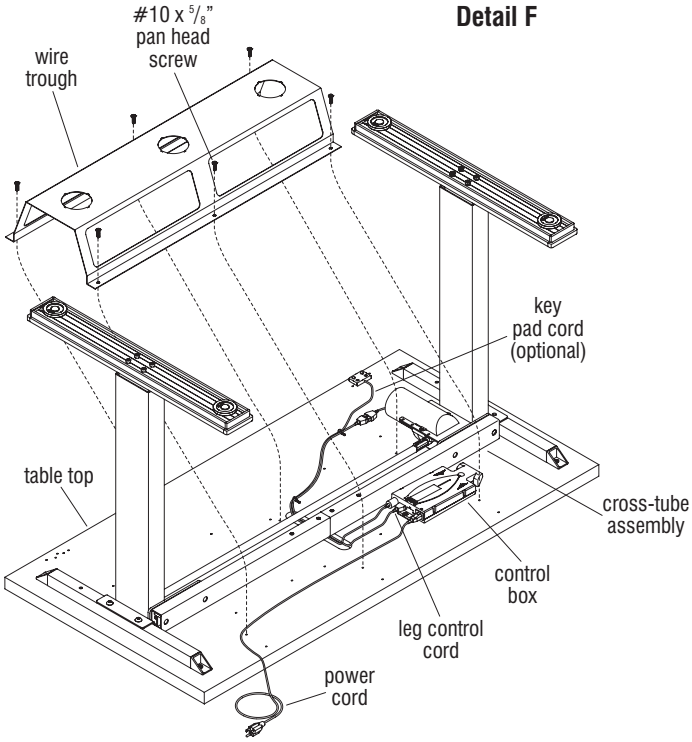


Figure 6 - Offset Wire Trough

Wire Trough (Optional)

Note: The wire trough is an optional part that must be ordered separately.

Note: Control cables can be routed differently than shown. Control box can be mounted to the underside of table tops 24" in depth at one of three locations. Control boxes mounting on table tops 30" or 36" in depth can mount in the same locations as the 24" table tops as well as an additional fourth mounting location centered behind the cross-tube assembly (Figure 8). If the control box is to be mounted offset behind the cross-tube assembly, reference figure 6 for placement of the wire trough. If the control box is mounted to the front, user side of the table, reference figure 7. Mounting to the front of the table does not require the use of the "optional key pad" (Figure 7). A 30" or 36" depth table top is the only depth which will allow a control box to be mounted centered behind the cross-tube assembly (Figure 8).

19. Align the wire trough mounting holes to the appropriate holes in the table top. Using six #10 x 5/8" pan head screws, secure the wire trough to the table top as illustrated (Figures 6, 7, or 8).

20. With help from another person, carefully turn table to the upright position. Adjust glides on feet to level the table. Plug the power cord into a grounded outlet power source (Detail F). **Note:** Power cord must have enough slack so the table can cycle through its entire range of motion.

21. **The table must be "zero set" prior to being placed into service. Refer to table "zero setting" instructions in the trouble shooting guide on page 7.**

22. If the table is not operating properly, see the trouble shooting guide in this instruction.

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.

Note: The wire trough is an optional part that must be ordered separately.

Note: Control cables can be routed differently than shown. Control box can be mounted to the underside of table tops 24" in depth at one of three locations. Control boxes mounting on table tops 30" or 36" in depth can mount in the same locations as the 24" table tops as well as an additional fourth mounting location centered behind the cross-tube assembly (Figure 8). If the control box is to be mounted offset behind the cross-tube assembly, reference figure 6 for placement of the wire trough. If the control box is mounted to the front, user side of the table, reference figure 7. Mounting to the front of the table does not require the use of the "optional key pad" (Figure 7). A 30" or 36" depth table top is the only depth which will allow a control box to be mounted centered behind the cross-tube assembly (Figure 8).

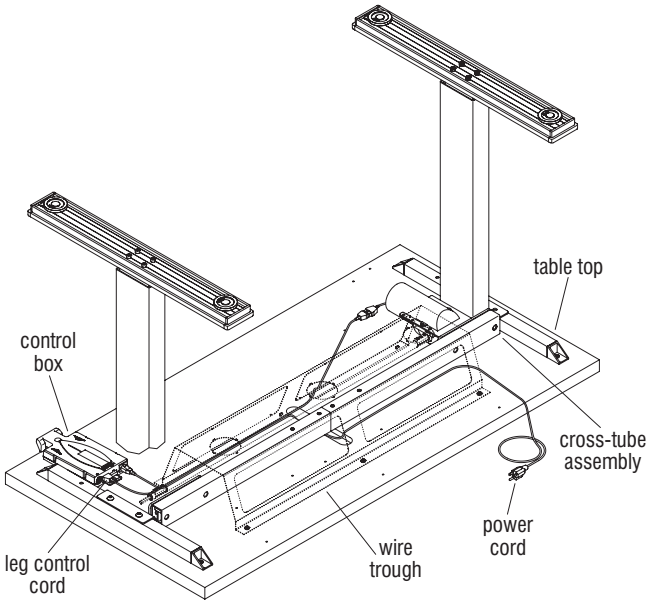


Figure 7 - Offset Wire Trough with Control Box Front User Side

Model Number	Operating Load Capacity
TOGL2448SM	110 lbs.
TOGL2460SM	100 lbs.
TOGL2472SM	90 lbs.
TOGL3048SM	100 lbs.
TOGL3060SM	90 lbs.
TOGL3072SM	75 lbs.
TOGL3648SM	90 lbs.
TOGL3660SM	75 lbs.
TOGL3672SM	60 lbs.
TOGLC3048SM	70 lbs.

Table Operating Capacity Chart

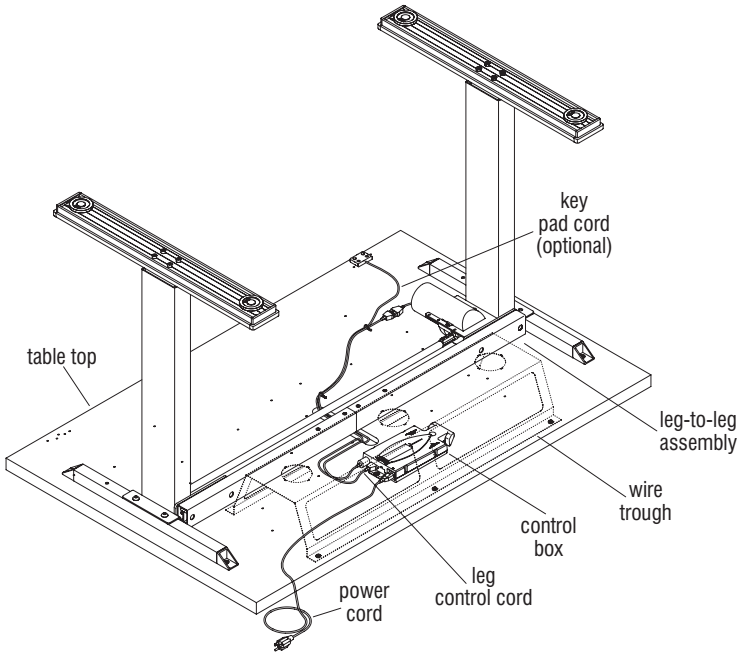


Figure 8 - Behind Leg-to-Leg Spanner Wire Trough, 30" Or 36" Table Depth

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.

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.



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.

Electrical Rating:
Input: 120V/60HZ/5A **Output:** 216VA/24V

WARNING: Risk of Injury-Do not exceed recommended operating loads. See "Table Operating Capacity Chart" on page 6.

Duty Cycle: 10% per hour. (2 minutes "ON" and 18 minutes "OFF" at continuous operation under load.

This table is not designed for continuous operation. Table operation must not exceed duty cycle.

Toggle Troubleshooting Guide

**** Table "Zero Setting"**

Press and hold the Up button for two seconds then release. Next, press and hold the Down button until table has reached its lowest position then release Down button. Finally, press the Down button again and hold for approximately 10 seconds. The table now re-set at its "Zero Setting" position and is ready to operate. **Note:** Intelligent System Protection (ISP) detection is disabled during "Zero Setting" Operation.

Warning: In spite of Intelligent System Protection (ISP) being in use, there may still be a risk of pinching in exceptional cases, as it is not only the control unit, but also the interaction between the mechanical and electrical systems that is responsible for cutting out the motor. In addition, the mechanical components, motor and ambient conditions all affect cut-out sensitivity. KI and the control unit manufacturer, cannot therefor eliminate this residual risk completely or accept any liability.

Symptom	Reason	Corrective Measure
Table does not move.	• Incorrect or no voltage.	• Verify there is power to the table. Make sure the table is properly plugged into a functioning power source. Make sure the power cord is fully engaged into the socket on the control box.
	• Table requires "Zero Setting".	• Perform Table "Zero Setting" **.
	• One of more component connectors has come disconnected or not fully connected.	• Verify all connectors are securely connected to legs and to control box. Disconnect and re-connect each one to ensure it is properly seated, then preform a Table "Zero Setting" **.
	• Damaged components or connectors.	• Check for visible damage to all connectors and connector receptacles.
	• Table has exceeded its duty cycle.	• Allow table to cool.
Table Base moves erratically or is tilted (one leg moves, one does not).	• Control box is not properly synchronized with the legs. • Telescopic adjustable axle not installed properly.	• Ensure that all cable connections are fully seated. Then perform a Table "Zero Setting" **. • Verify the adjustable axle is installed properly and set screws are tight.
Table base stops and will only move down (or up).	• Table may be at its highest (or lowest) position (range 27½" at the lowest to 47" at the highest) and then can only go down (or up).	• Press the other switch button.
	• Table or an object on the table is colliding with an obstruction.	• Perform a visual check and clear any obstructions.
	• Table is overloaded or the weight on the table is not evenly distributed.	• Reduce load and attempt to adjust the table.
	• Control box is not properly synchronized with the legs.	• Ensure that all cables connections are fully seated. Then perform a Table "Zero Setting" **.
All above corrective measures have been applied and table still does not move.	• Control Box is damaged.	• Forward the part number (P/N) off the control box label (located next to receptacles) to your Customer Service Representative.
Table does not reach its correct highest (47") or lowest (27½") position.	• Table limits may need to be programmed.	• Contact your customer service representative.

Toggle® Tables - Single Motor Height Adjustable Base, Model SM

Assembly Instructions

1330 Bellevue Street • P.O. Box 8100 • Green Bay, WI 54308-8100 • Tel 1-800-424-2432 • www.ki.com

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Furnishing Knowledge®

Assembly Instructions ■

Toggle® Tables

Dual Motor C-Leg Height-Adjustable Base, Model ELC

February 2019

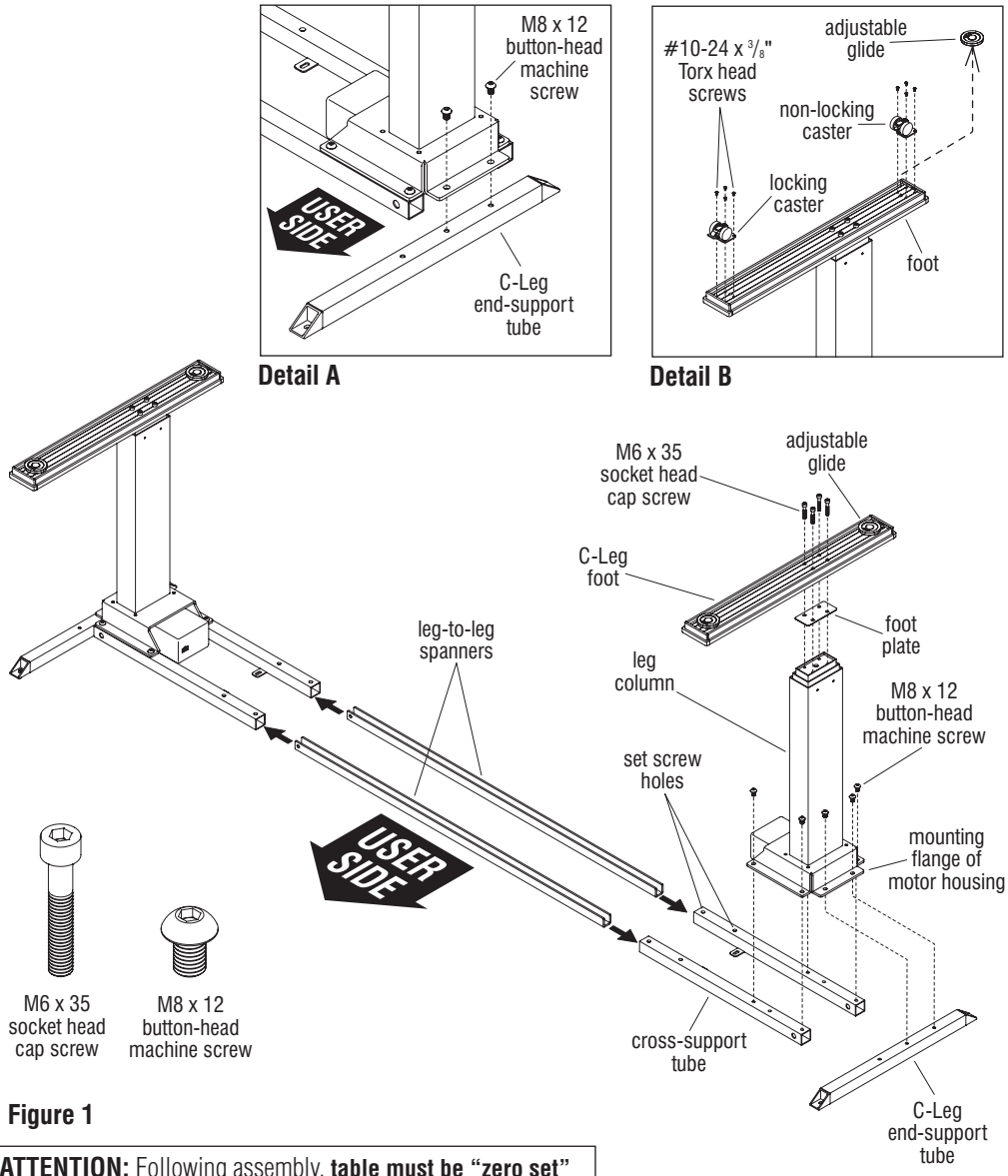


Figure 1

ATTENTION: Following assembly, **table must be "zero set" prior to being placed into service**. Failure to do so can cause table to malfunction.

Table "Zero Setting": Press and hold the Up button for two seconds then release. Next, press and hold the Down button until table has reached its lowest position then release Down button. Then, press the Down button again and hold for approximately 10 seconds. The table now re-set at its "Zero Setting" position and is ready to operate.

Motor-Operated Furnishing
-FOR COMMERCIAL USE ONLY-

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.

1. Carefully remove contents from packaging, set out on a soft, clean surface and refer to Figure 1 to identify the parts required for assembly.

2. Position the two cross-support tubes (with mounting tabs facing down and facing inwards), and one C-leg end support tube out as illustrated. Place a leg column assembly over the three support tubes and align six mounting holes of the leg column with appropriate mounting holes of the three tubes as illustrated. The C-leg end support tube contains three mounting holes but only the two non-user side holes can be used. Make sure the tube has the longer end and one unused mounting hole, facing the user side as illustrated in detail A. Using six M8 x 12 button head machine screws torqued to 9.5 ft/lbs, secure the flange of the leg column to the three support tubes (Figure 1).

3. Assemble the C-leg foot to the leg column by first positioning a plastic foot plate over the mounting location on the leg column. The foot plate must be oriented so the raised flange faces into the column, to nest the foot plate into place. Next, position a foot over the foot plate and leg column as illustrated, with the mounting holes of the foot aligning with those of the leg column. It is important that the longer end of the C-leg foot face the user side. Once foot is correctly oriented, secure the foot to the leg column with four M6 x 35 socket head cap screws. Torque to 7.5 ft/lbs (Figure 1).

4. If casters are required, twist both adjustable glides out of the C-leg foot. Locking and non-locking casters are supplied. Locking casters should be located toward the front, user side of the table for easy access while the non-locking casters are located to the back. Using four #10-24 x 3/8" Torx screws, carefully secure the casters to the foot (Detail B).

5. Repeat steps 2 & 3 for second leg assembly and step 4 if casters are required (Figure 1).

6. Position two leg-to-leg spanners with channel opening face up, then slide both spanners into the open ends of each base tube of both base assemblies. Slide bases together, but do not secure with set screws at this time (Figure 1).

Furnishing Knowledge®

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.

CAUTION: If Channels (Wire Troughs) are used they are not to be used for routing extension cords. Power supply cords are not to be routed across or through more than one complete unit/worksurface.

7. Carefully turn tabletop upside down on a soft protective surface and set the base assembly onto the underside of the top. Position one base end, so base mounting holes align with tabletop mounting holes, and secure base to top using four M5.5 x 22 pan head screws. Slide the other base end into position to align base mounting holes to the tabletop holes and secure with four M5.5 x 22 pan head screws. Insert and tighten eight M10 x 25 set screws as illustrated, through the cross support tubes and down to the leg-to-leg spanners. Torque to 4.5 ft/lbs to secure (Figure 2).

8. For 24" deep tables the control box must be mounted to the underside of the tabletop, centered between the cross-tube assemblies or one of two locations near the front of the table. If using one of the two front locations, the built in switch on the control box will eliminate the requirement for the key pad (Figure 3). Position the control box over the pre-drilled mounting holes and secure using two M.5 x 22 pan head screws (Figure 2 & 3).

9. For 30" or 36" deep tables, the control box may be mounted to the underside of the tabletop, either at the center of the top between the cross-tube assemblies (Figure 2), one of two locations near the front of the table (Figure 3), or one of three locations behind the cross-tube assemblies (Figure 7). If using one of the two front locations, the built in switch on the control box will eliminate the requirement for the key pad (Figure 3).

   Note: To prevent interference, Universal Height-Adjustable screens cannot be used on 30" deep Toggle Tables when the control box is mounted to one of the three mounting locations behind the cross-tube assemblies as shown in Figure 7.

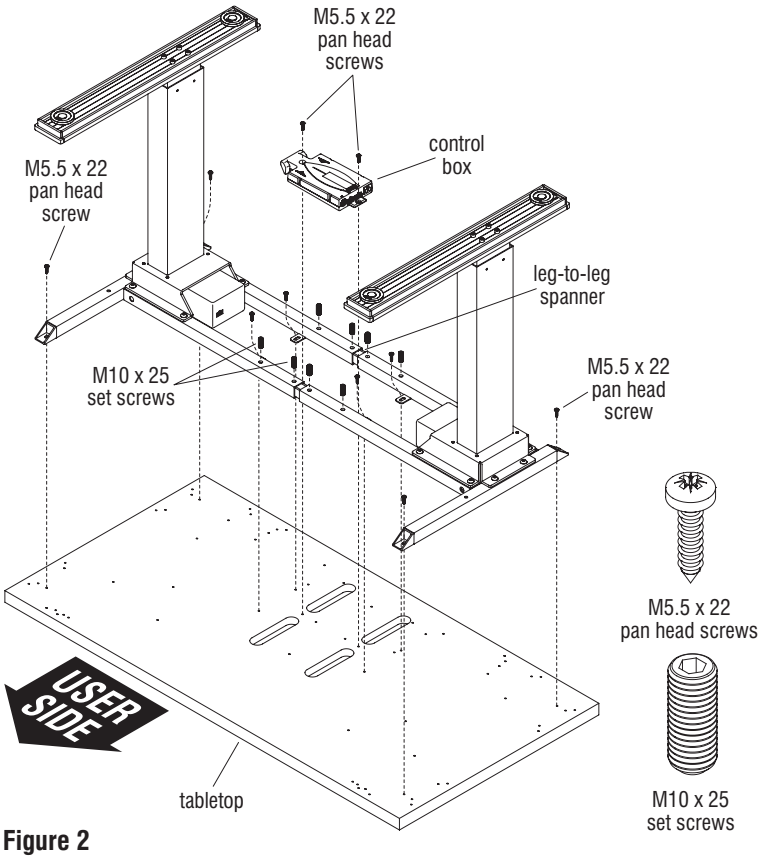


Figure 2

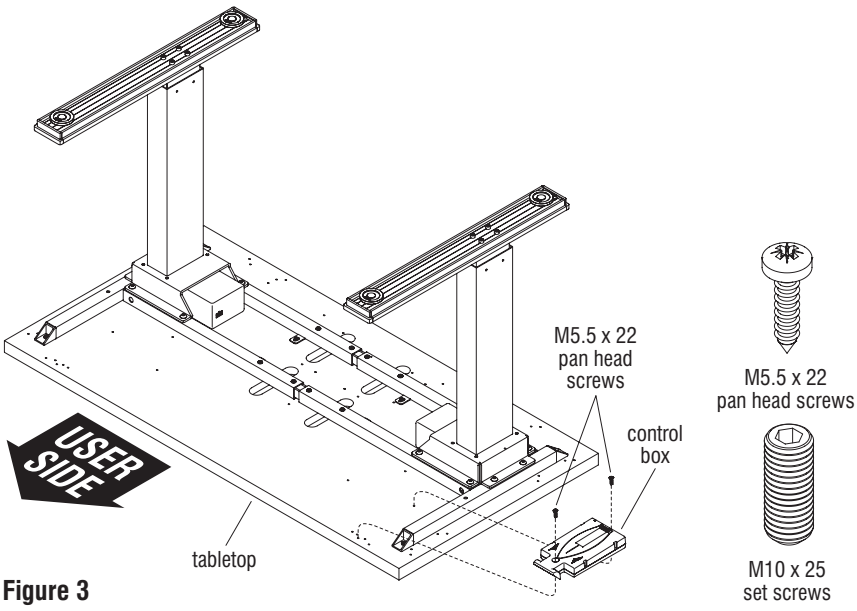


Figure 3

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 C. 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.

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.

Table Wiring

Note: Control cables can be routed differently than shown. Tables may have the control box mounted either between the cross-tube assemblies, at one of the two locations behind the cross-tube assemblies or one of two locations at the front of the table (Detail C). Mounting to the front of the table does not require the use of the "optional key pad". Follow directions appropriate to control box mounting location.

Note: When plugging leg control cord ends in, make sure to push in straight to avoid bending any pins in the electrical control box or leg motor. The plug will click when it is locked into place.

Note: If any plug needs to be removed, make sure power cord is un-plugged from power source outlet first. Then push down on release tab on the control cable plug while simultaneously pulling on the end to remove from the socket.

1. **Leg Cord - Long:** Plug the longer leg control cord into one of the two rectangular sockets on the control box, then route cord to the leg farthest from control box. Use cut outs in the table to route under the cross tubes and/or use zip ties secured with screws at pre-drilled locations. Plug other end of the longer leg control cord into the open socket on leg motor (Figure 4).

2. **Leg Cord - Short:** The next rectangular socket on the control box is utilized by the shorter leg control cord. Plug short leg cord into control box and route to the leg motor socket that is closest to the control box. Use cut outs in table to route under the cross tubes. Plug other end of the shorter leg control cord into open socket on leg motor (Figure 4).

3. **Optional Key Pad:** The key pad can be mounted on the front side of tabletop (Figure 4). Using pre-drilled holes, secure key pad to tabletop with two M4.2 x 19 flat head screws at 1.5 ft/lbs. **Note:** Do not overtighten screws. Once key pad is mounted, route attached cord to control box. Use Figure 4 for cord routing reference and for the optimal usage of zip-tie points. Once the key pad cord is routed to control box, plug cord into the round socket on box (Figure 4).

   Note: Make sure all cables are routed correctly and plugged into correct sockets on control box and leg motor locations before installing zip-ties.

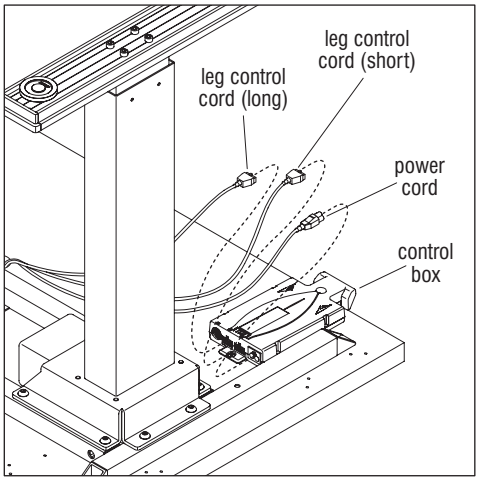
4. **Zip-ties:** Six zip-ties are included for keeping cords tight to table, but it is not necessary to use all six. Using Figure 4 for reference, wrap the zip-ties around the loose cords and then mount the zip-tie to the tabletop with a M5.5 x 22 pan head screw into the pre-drilled holes. The zip-ties have a built in mounting hole which must lay flat onto surface. Make sure zip-ties and cables are snug before moving to next step.

5. **Power Cord:** The final cord to be installed is the power cord. Plug power cord into remaining open socket which is tri-lobe in shape. Cord should not be zip-tied or routed through cut outs on table (Figure 4). Do not plug it into power source at this time.

6. If optional wire trough was specified for installation, go now to page 4. If no wire trough is specified, carefully turn table to the upright position with the help of another person. Adjust glides on feet to level the table. Plug the power cord into a grounded outlet power source (Detail D). **Note:** Power cord must have enough slack so the table can cycle through its entire range of motion.

7. **The table must be "zero set" prior to being placed into service. Refer to table "zero setting" instructions in the trouble shooting guide on page 6.**

8. If the table is not operating properly, see the trouble shooting guide in this instruction.



Detail C - Table with Front Control Box

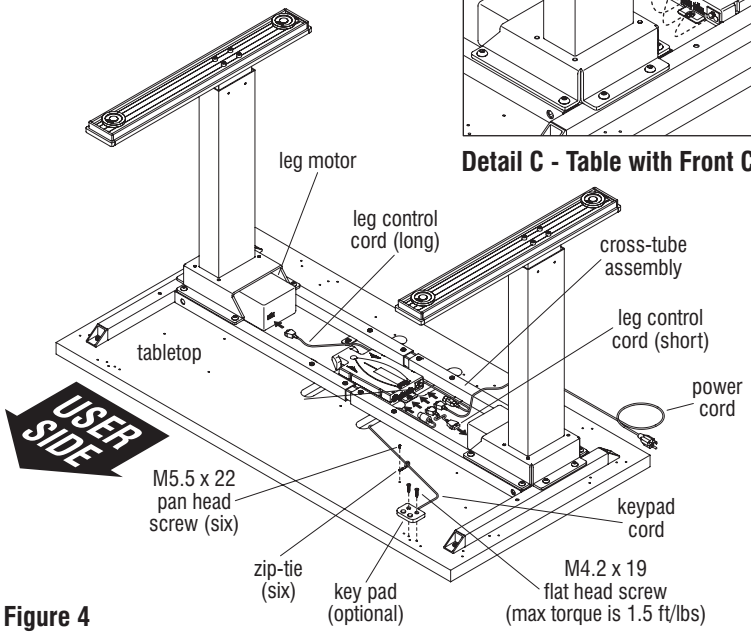
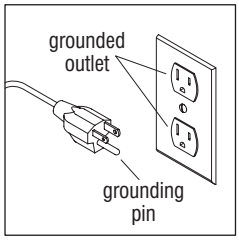


Figure 4



Detail D

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.

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 E. Make sure that the product is connected to an outlet having the same coniguration as the plug. No adapter should be used with this product.

Wire Trough (optional)

Note: The wire trough is an accessory that must be ordered separately.

Note: Control cables can be routed differently than shown. The control box can be mounted to the underside of tabletops 24" in depth at three mounting locations, between the cross-tube assembly or the front user side of the table (Figures 5 & 6). Control boxes mounting under tabletops 30" or 36" in depth can mount in one of five mounting locations. If the control box is mounted between the cross-tube assembly, reference Figure 5 for placement of the wire trough. If the control box is mounted to the front user side of the table, reference Figure 6. Mounting to the front of the table does not require the use of the "optional key pad" (Figure 6). If the control box is mounted behind the cross-tube assembly, reference Figure 7.

9. Align the wire trough mounting holes to the appropriate holes in the tabletop, making sure the larger cutouts on the trough are facing the user side of the table. Using six #10 x $^5/_8$" pan head screws, secure the wire trough to the tabletop as illustrated (Figure 5, 6, & 7).

10. With help from another person, carefully turn table to the upright position. Adjust glides on feet to level the table. Plug the power cord into a grounded outlet power source (Detail E). **Note:** Power cord must have enough slack so the table can cycle through its entire range of motion.

11. **The table must be "zero set" prior to being placed into service. Refer to table "zero setting" instructions in the trouble shooting guide on page 6.**

12. If the table is not operating properly, see the trouble shooting guide in this instruction.

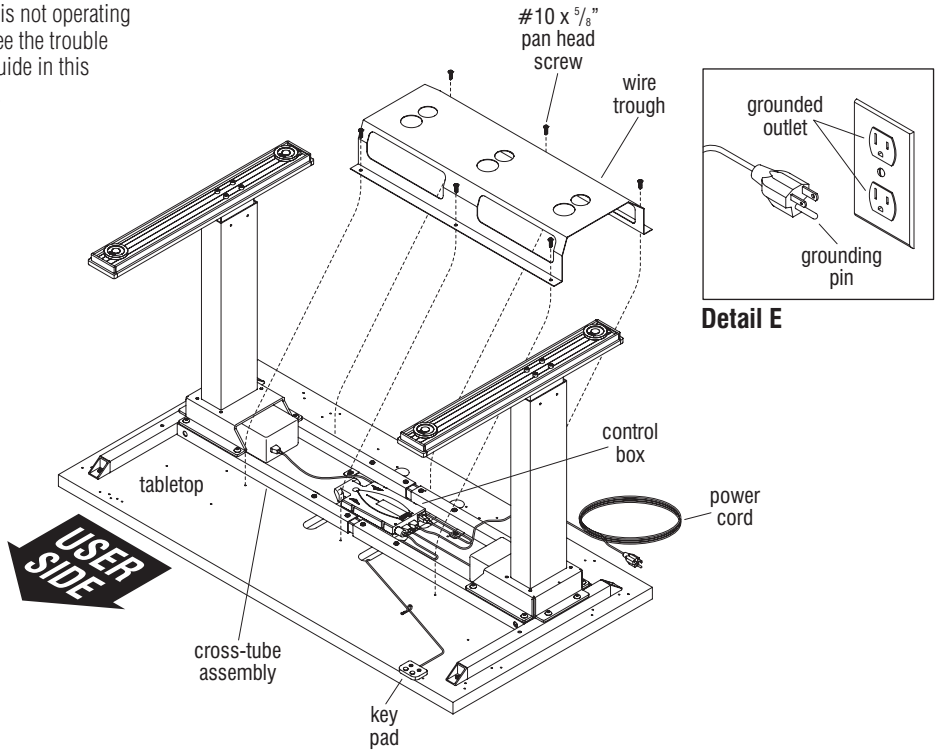


Figure 5 - Centered Wire Trough with Control Box Between Cross-Tube Assembly

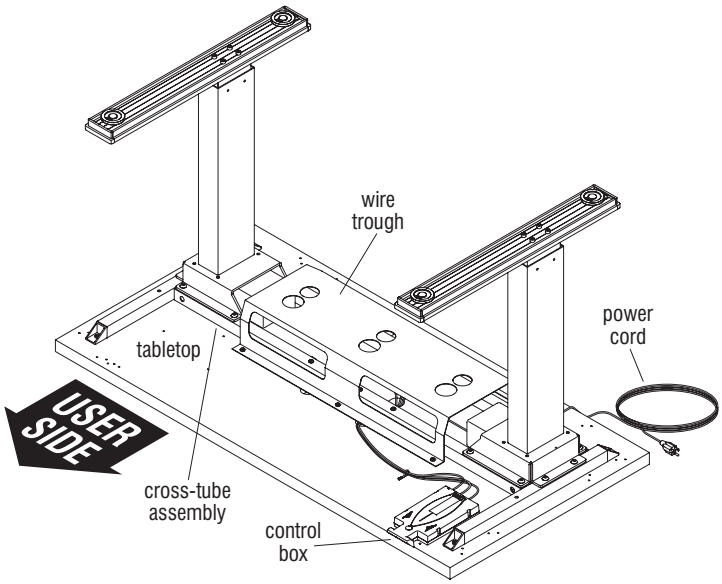


Figure 6 - Centered Wire Trough with Control Box Front User Side

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.

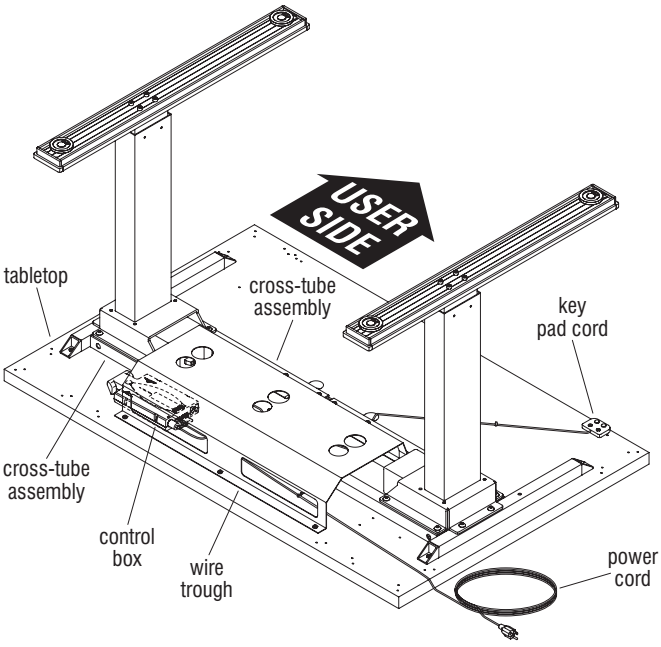


Figure 7 - Behind Cross-Tube Assembly Wire Trough, 30" or 36" Table Depth

Model Number	Operating Load Capacity
TOGL2448ELC	220 lb
TOGL2454ELC	215 lb
TOGL2460ELC	210 lb
TOGL2466ELC	205 lb
TOGL2472ELC	200 lb
TOGL3048ELC	210 lb
TOGL3054ELC	205 lb
TOGL3060ELC	200 lb
TOGL3066ELC	192.5 lb
TOGL3072ELC	185 lb
TOGL3648ELC	200 lb
TOGL3654ELC	192.5 lb
TOGL3660ELC	185 lb
TOGL3666ELC	177.5 lb
TOGL3672ELC	170 lb
TOGLC3048ELC	180 lb

Table Operating Capacity Chart

Wire Trough (optional)

Note: The wire trough is an accessory that must be ordered separately.

Note: Control cables can be routed differently than shown. The control box can be mounted to the underside of tabletops 24" in depth at three locations, between the cross-tube assembly or the front user side of the table (Figure 5 & 6). Control boxes mounting under tabletops 30" or 36" in depth can mount in one of five mounting locations. If the control box is mounted between the cross-tube assembly, reference Figure 5 for placement of the wire trough. If the control box is mounted to the front user side of the table, reference Figure 6. Mounting to the front of the table does not require the use of the "optional key pad" (Figure 6). If the control box is mounted behind the cross-tube assembly, reference Figure 7.

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.

Undermounted R8 Power Module Installation

Note: The Undermounted R8 power module can be mounted to the underside of the Toggle tabletop in one of two pre-drilled locations, and can face the user or non-user side of the table. If desired, the undermounted power module's four mounting holes can be used as a template underneath the tabletop to mark, then drill holes for an alternative mounting location.

1. Position the Undermounted R8 power module to the underside of the worksurface at the desired pre-drilled mounting location. Assure that the power cord can be routed easily to a power source (Figures 8 & 9).

2. Align the pre-drilled mounting holes of the R8 power module with the drilled mounting holes underneath the tabletop. Secure the R8 power module to the worksurface using four #8 x 3/4" wood screws. Take care to not over tighten (Figures 8 & 9).

3. Route the power cord to an approved power source if optional mounting clamps are not desired.

   CAUTION: Risk of electrical shock. Do not plug into another relocatable power tap or an extension cord.

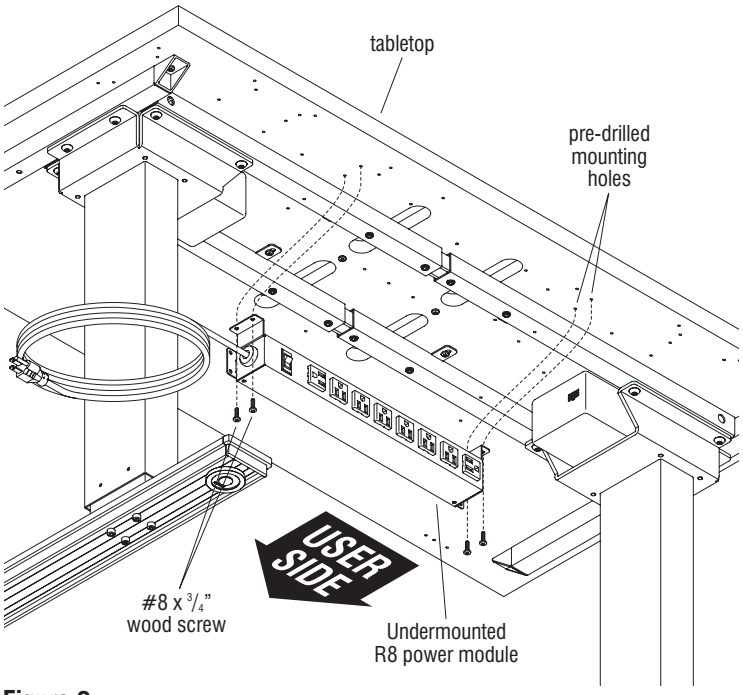


Figure 8

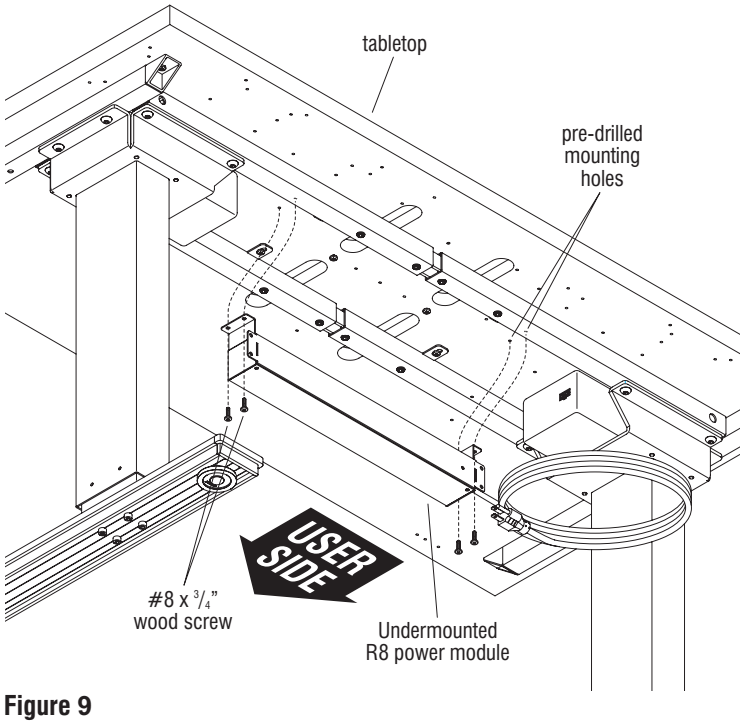


Figure 9

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.

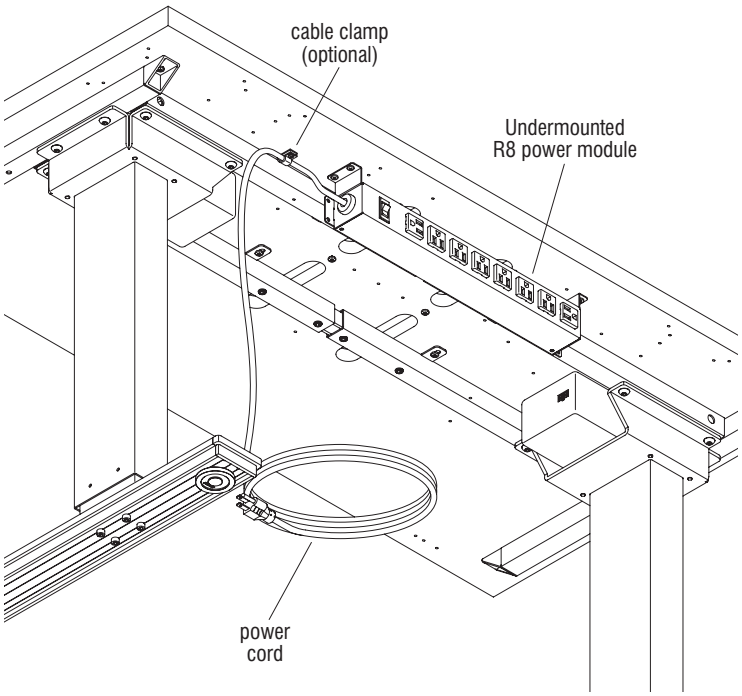


Figure 10

Cable Clamp Installation (optional)

1. Route the power cord for the Undermounted R8 power module along the underside of the tabletop and mark the pilot hole locations where the cable clamps will be installed. Four cable clamps are provided with each R8 power module, but depending on your configuration not all clamps may be required (Figure 10).

2. Position the power cord out of the way. At each marked cable clamp location, drill a pilot hole to a depth of 3/4", making sure to not drill too deep, piercing the tabletop (Figure 10).

3. Nest the power cord inside the cable clamps. Position the cable clamps over the pilot holes and secure to the tabletop using #8 x 3/4" wood screws (Figure 10).

4. Route the power cord to an approved power source.

Toggle® Tables - Dual Motor C-Leg Height-Adjustable Base, Model ELC

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.

Electrical Rating:
Input: 120V/60HZ/5A **Output:** 216VA/24V

WARNING: Risk of Injury - Do not exceed recommended operating loads. See Table Operating Capacity Chart on page 5.

Duty Cycle: 10% per hour. (2 minutes "ON" and 18 minutes "OFF" at continuous operation under load.

This table is not designed for continuous operation. Table operation must not exceed duty cycle.

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.

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.

Toggle Troubleshooting Guide

**** Table "Zero Setting"**

Press and hold the Up button for two seconds then release. Next, press and hold the Down button until table has reached its lowest position then release Down button. Then, press the Down button again and hold for approximately 10 seconds. The table now re-set at its "Zero Setting" position and is ready to operate. **Note:** Intellect System Protection (ISP) detection is disabled during "Zero Setting" Operation.

Warning: In spite of Intellect System Protection (ISP) being in place, there may still be a risk of pinching in exceptional cases, as it is not only the control unit, but also the interaction between the mechanical and electrical systems that is responsible for cutting out the motor. In addition, the mechanical components, motor and ambient conditions all affect cut-out sensitivity. KI and the control unit manufacturer, cannot therefor eliminate this residual risk completely or accept any liability.

Symptom	Reason	Corrective Measure
Table does not move.	• Incorrect or no voltage.	• Verify there is power to the table. Make sure the table is properly plugged into a functioning power source. Make sure the power cord is fully engaged into the socket on the control box.
	• Table requires "Zero Setting".	• Perform Table "Zero Setting" **.
	• One of more component connectors has come disconnected or not fully connected.	• Verify all connectors are securely connected to legs and to control box. Disconnect and re-connect each one to ensure it is properly seated, then preform a Table "Zero Setting" **.
	• Damaged components or connectors.	• Check for visible damage to all connectors and connector receptacles.
	• Table has exceeded its duty cycle.	• Allow table to cool.
Table Base moves erratically or is tilted (one leg moves, one does not).	• Control box is not properly synchronized with the legs.	• Ensure that all cables connections are fully seated. Then perform a Table "Zero Setting" **.
Table base stops and will only move down (or up).	• Table may be at its highest (or lowest) position (range 26" at the lowest to 52" at the highest) and then can only go down (or up).	• Press the other switch button.
	• Table or an object on the table is colliding with an obstruction.	• Perform a visual check and clear any obstructions.
	• Table is overloaded or the weight on the table is not evenly distributed.	• Reduce load and attempt to adjust the table.
	• Control box is not properly synchronized with the legs.	• Ensure that all cable connections are fully seated. Then perform a Table "Zero Setting" **.
All above corrective measures have been applied and table still does not move.	• Control Box is damaged.	• Forward the part number (P/N) off the control box label (located next to receptacles) to your Customer Service Representative.
Table does not reach its correct highest (52") or lowest (26") position.	• Table limits may need to be programmed.	• Contact your customer service representative.

1330 Bellevue Street • P.O. Box 8100 • Green Bay, WI 54308-8100 • Tel 1-800-424-2432 • www.ki.com

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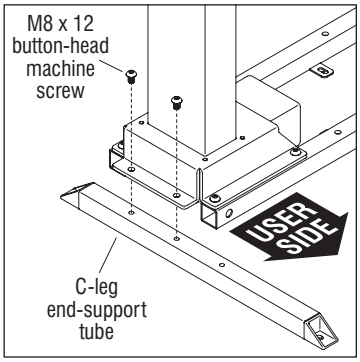
Furnishing Knowledge®

Assembly Instructions ■

Toggle® Tables

Triple Motor C-Leg Height-Adjustable Square Shoe Base, Model SS

September 2019



Detail A

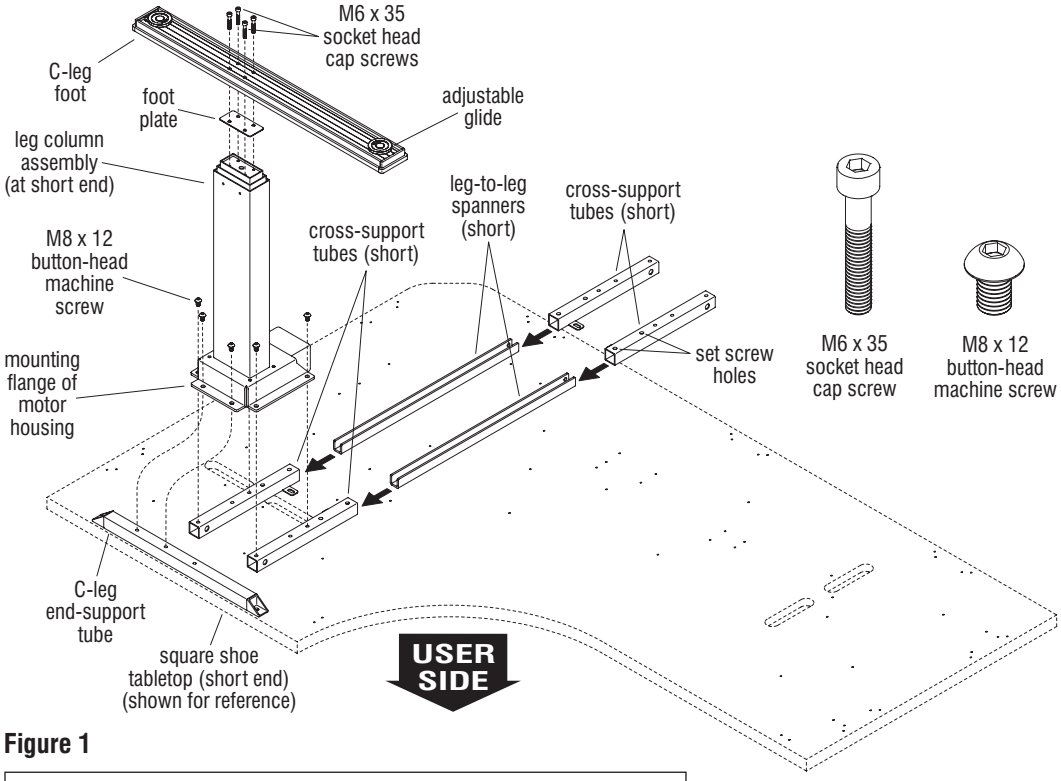


Figure 1

ATTENTION: Following assembly, **table must be "zero set" prior to being placed into service**. Failure to do so can cause table to malfunction.

Table "Zero Setting": Press and hold the Up button for two seconds then release. Next, press and hold the Down button until table has reached its lowest position then release Down button. Then, press the Down button again and hold for approximately 10 seconds. The table now re-set at its "Zero Setting" position and is ready to operate.

1. Carefully remove contents from packaging, set out on a soft, clean surface and refer to Figures 1, 2 & 3 to identify the parts required for assembly.

End C-Leg Assembly (short end of table)

Note: Two different lengths of cross-support tubes and leg-to-leg spanners are supplied. The short end of the table uses four short cross-support tubes and two short leg-to-leg spanners (Figure 2).

2. Start assembling the C-leg to be placed on the short end of the table by positioning two shorter cross-support tubes (with mounting tabs facing down and facing inwards), and one C-leg end support tube in position as illustrated in Figure 1. Place a leg column assembly over the three support tubes and align six mounting holes of the leg column mounting base with appropriate mounting holes of the three tubes as illustrated. The C-leg end support tube contains three mounting holes but only the two non-user side holes are used. Make sure the tube has the longer end with one unused mounting hole facing the user side as illustrated in Detail A. Using six M8 x 12 button head machine screws torqued to 9.5 ft/lb, secure the flange of the leg column to the three support tubes (Figure 1).

3. Assemble the C-leg foot to the leg column by first positioning a plastic foot plate over the mounting location on the leg column. The foot plate must be oriented so the raised flange faces into the column, to nest the foot plate into place. Next, position a foot over the foot plate and leg column as illustrated, with the mounting holes of the foot aligning with those of the leg column. It is important that the longer end of the C-leg foot face the user side. Once the foot is correctly oriented, secure the foot to the leg column with four M6 x 35 socket head cap screws. Torque to 7.5 ft/lb (Figure 1).

4. Position the two shorter leg-to-leg spanners with their channel openings face up, then slide both spanners into the open ends of the cross-support tubes installed under the leg column base. Next slide a cross-support tube (matching the same length as at the opposite end of the leg-to-leg spanner) onto each end of the leg-to-leg spanners (with mounting tabs face down and facing inward). Do not secure the support tubes to the spanners with set screws at this time (Figure 1).

Motor-Operated Furnishing
-FOR COMMERCIAL USE ONLY-

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.

Furnishing Knowledge®

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.

End C-Leg Assembly (long end of table)

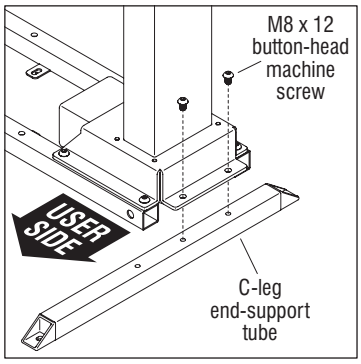
Note: There are two different lengths of cross-support tubes and leg-to-leg spanners. The long end of the table uses two short and two long cross-support tubes and two long leg-to-leg spanners. The two longer support tubes must be installed to the back, longer, non-user side of the table (Figure 2).

1. Start assembling the C-leg to be placed on the long end of the table by positioning one shorter and one longer cross-support tube (with mounting tabs facing down and facing inwards), and one C-leg end support tube in position as illustrated in Figure 2. The longer cross-support tube must be positioned to the back, longer, non-user side of the table. Place a leg column assembly over the three support tubes and align six mounting holes of the leg column mounting base with appropriate mounting holes of the three tubes as illustrated. The C-leg end support tube contains three mounting holes but only the two non-user side holes are used. Make sure the tube has the longer end with one unused mounting hole facing the user side as illustrated in Detail B. Using six M8 x 12 button head machine screws torqued to 9.5 ft/lb, secure the flange of the leg column to the three support tubes (Figure 2).

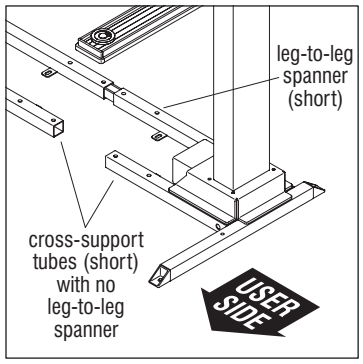
2. Assemble the C-leg foot to the leg column by first positioning a plastic foot plate over the mounting location on the leg column. The foot plate must be oriented so the raised flange faces into the column, to nest the foot plate into place. Next, position a foot over the foot plate and leg column as illustrated, with the mounting holes of the foot aligning with those of the leg column. It is important that the longer end of the C-leg foot face the user side. Once the foot is correctly oriented, secure the foot to the leg column with four M6 x 35 socket head cap screws. Torque to 7.5 ft/lb (Figure 2).

Note: If the table being assembled is 30" x 48" x 60" or 30" x 60" x 48", the leg-to-leg spanner on the longer, user side of the table is not required and must **NOT** be installed. Unused spanner(s) may be disposed of (Detail C).

3. Position the two longer leg-to-leg spanners with their channel openings face up, then slide both spanners into the open ends of the cross-support tubes installed under the leg column base. Next slide a cross-support tube (matching the same length as at the opposite end of the leg-to-leg spanner) onto each end of the leg-to-leg spanners (with mounting tabs face down and facing inward). Do not secure the support tubes to the spanners with set screws at this time (Figure 2).



Detail B



Detail C - 30" x 48" x 60" & 30" x 60" x 48" Tables

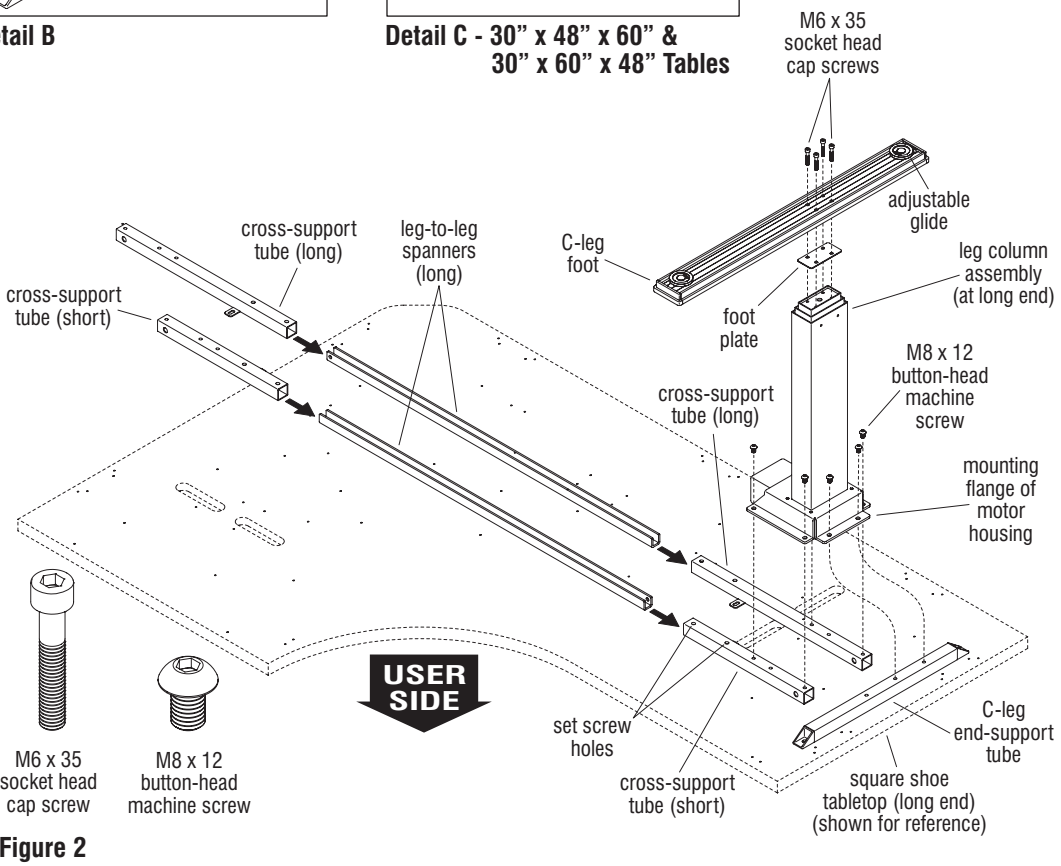


Figure 2

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.

Corner Leg Assembly

Note: Middle-support brackets are left- and right-handed. Brackets are each designed to install to a specific side of the corner leg column. Take care and follow directions below when installing brackets. If brackets are not installed to the proper left- or right-hand location, corner leg column will not secure to the brackets and disassembly and reassembly will be required.

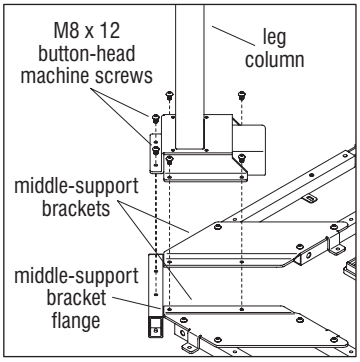
1. Orient and place each middle-support bracket over the cross-support tube assembly with flange facing the corner leg installation location as illustrated. Align the holes of the middle support bracket with the support tube mounting holes and secure with four M8 x 12 button-head machine screws (Figure 3).

2. Place the square shoe end-support tube between the two cross-support tube assemblies as illustrated in Figure 3.

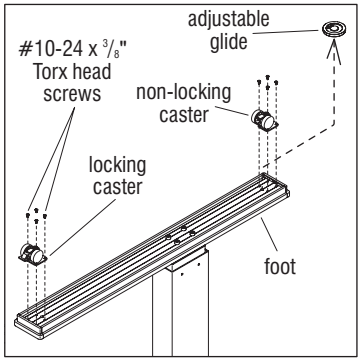
3. Position the corner leg column over the square shoe end-support tube and two middle-support bracket's flanges, then align six mounting holes of the leg column with appropriate mounting holes of the two brackets and tube as illustrated in Figure 3 and Detail D. Using six M8 x 12 button head machine screws torqued to 9.5 ft/lb, secure the flange of the leg column to the square shoe end-support tube and middle-support brackets (Figure 3 & Detail D).

4. Assemble the square shoe foot to the leg column by first positioning a plastic foot plate over the mounting location on the leg column. The foot plate must be oriented so the raised flange faces into the column, to nest the foot plate into place. Next, position the square shoe foot over the foot plate and leg column as illustrated, with the mounting holes of the foot aligning with those of the leg column. Secure the foot to the leg column with four M6 x 35 socket head cap screws. Torque to 7.5 ft/lb (Figure 3).

5. If casters are required, twist all adjustable glides out of the square shoe and C-leg feet. Locking and non-locking casters are supplied. Locking casters should be located toward the front, user side of the table for easy access while the non-locking casters are located to the back. Using four #10-24 x $^3/_8$" Torx screws, carefully secure the casters to the foot (Detail E).



Detail D



Detail E

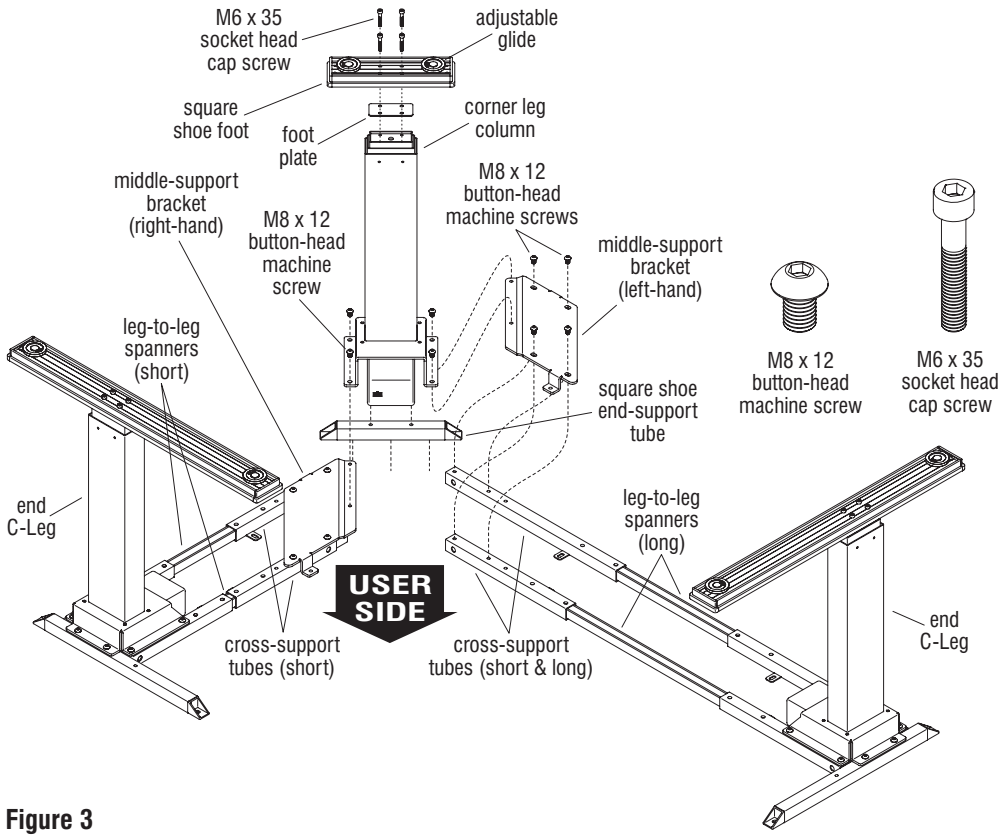


Figure 3

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.

CAUTION: If Channels (Wire Troughs) are used they are not to be used for routing extension cords. Power supply cords are not to be routed across or through more than one complete unit/worksurface.

1. Carefully turn tabletop upside down on a soft, protective surface and set the base assembly onto the underside of the top. Position one base end, so base mounting holes align with tabletop mounting holes, and secure base to top using six M5.5 x 22 pan head screws. Slide the other base end into position by adjusting the cross-support tubes to align base mounting holes to the tabletop holes and secure with six M5.5 x 22 pan head screws. Next, secure the corner base mounting holes to the tabletop mounting holes using six M5.5 x 22 pan head screws (Figure 4).

2. Insert and tighten sixteen M10 x 25 set screws as illustrated, through the cross support tubes and down to the leg-to-leg spanners. Torque to 4.5 ft/lb to secure (Figure 4).

3. The control box can be mounted in one of two locations, center corner in front of the cross tube assemblies (Figure 4) or between the cross-tube assemblies on the longer side of the table (Figure 5). If desired, the control box can be used as a template underneath the tabletop to mark, then drill a hole for an alternative mounting location. Position the control box over the pre-drilled mounting hole and secure using two M.5 x 22 pan head screws (Figures 4 & 5).

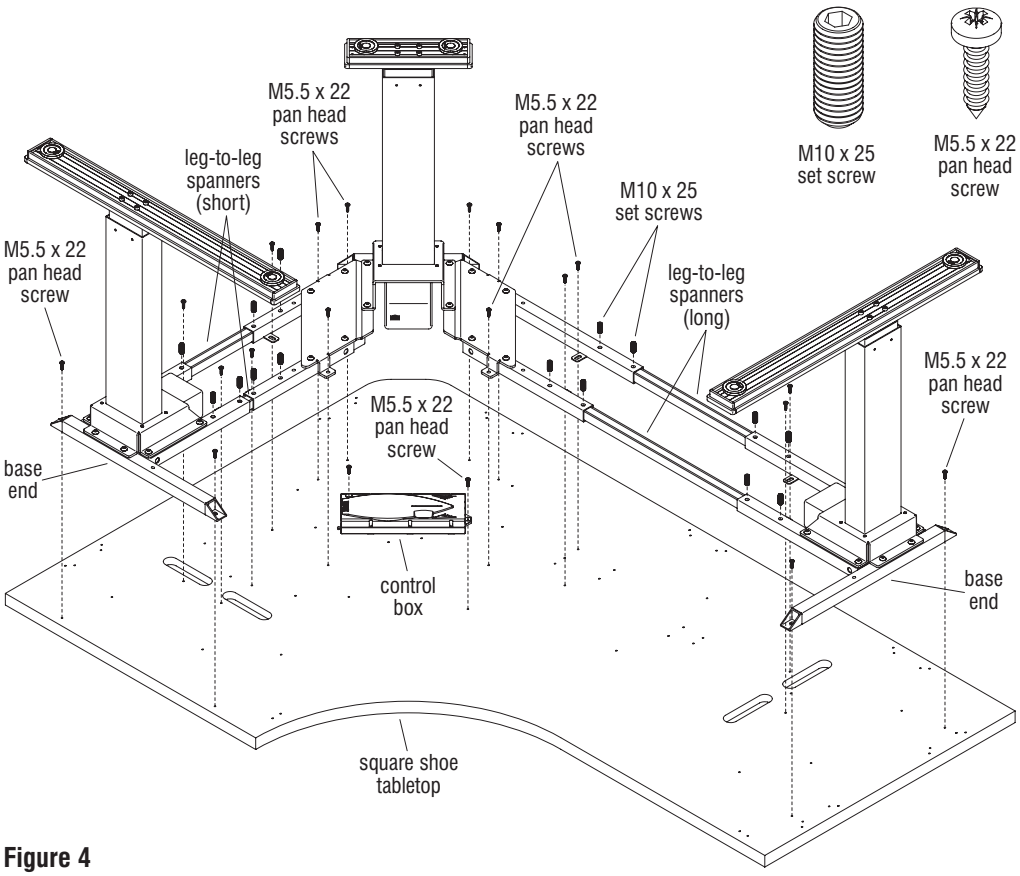


Figure 4

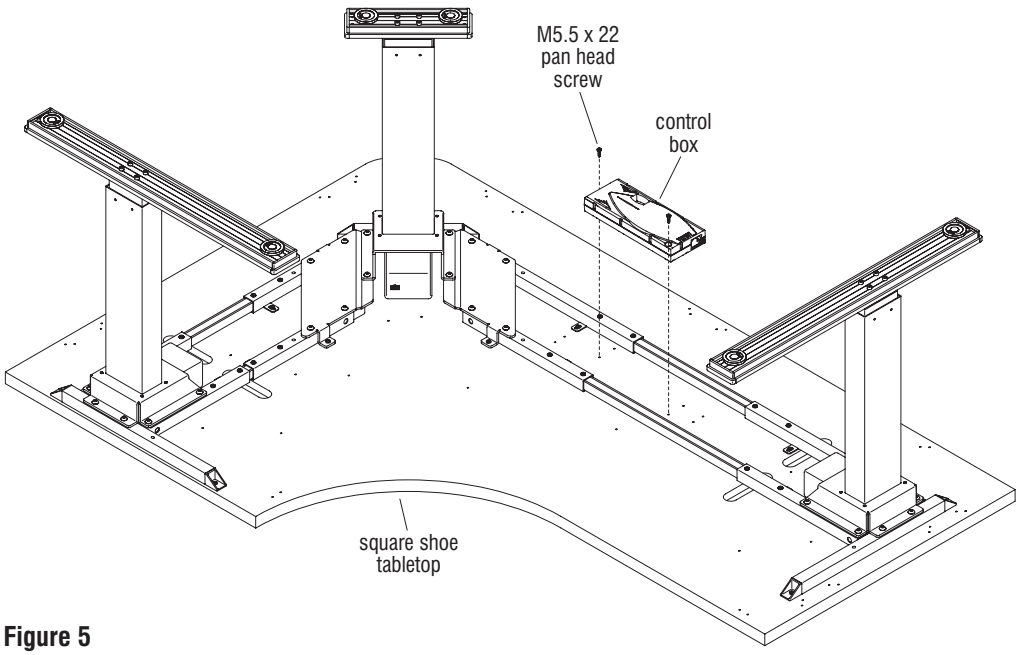


Figure 5

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 F. 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.

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.

Table Wiring

Note: Control cables can be routed differently than shown. Tables may have the control box mounted either between the cross-tube assemblies on the longer side of the table or centered in front of the square shoe leg. Follow directions appropriate to control box mounting location.

Note: When plugging leg control cord ends in, make sure to push in straight to avoid bending any pins in the electrical control box or leg motor. The plug will click when it is locked into place.

Note: If any plug needs to be removed, make sure power cord is un-plugged from power source outlet first. Then push down on release tab on the control cable plug while simultaneously pulling on the end to remove from the socket.

1. **Leg Cord - Long:** Plug the longer leg control cord into one of the three rectangular sockets on the control box, then route cord to the leg farthest from control box. Use cut outs in the table to route under the cross tubes and/or use zip ties secured with screws at pre-drilled locations. Cables can also be routed on the sides of the middle leg and under the middle support brackets to route around the cross-support tubes as illustrated in Figure 6. Plug other end of the longer leg control cord into the open socket on leg motor (Figure 6).

2. **Leg Cord - Short:** The next rectangular socket on the control box is utilized by the shorter leg control cord. Plug short leg cord into control box and route to the leg motor socket that is closest to the control box. Use cut outs in table to route under the cross tubes. Cables can also be routed on the sides of the middle leg and under the middle support brackets to route around the cross-support tubes as illustrated in Figure 6. Plug other end of the shorter leg control cord into open socket on leg motor (Figure 6).

3. **Key Pad:** The key pad mounts in one of two locations on the front side of tabletop (Figure 6). Using pre-drilled holes, secure key pad to tabletop with two M4.2 x 19 flat head screws at 1.5 ft/lb. **Note:** Do not overtighten screws. Once key pad is mounted, route attached cord to control box. Once the key pad cord is routed to control box, plug cord into the round socket on box (Figure 6).

Note: Make sure all cables are routed correctly and plugged into correct sockets on control box and leg motor locations before installing zip-ties.

4. **Zip-ties:** Six zip-ties are included for keeping cords tight to table, but it is not necessary to use all six. Using Figure 6 for reference, wrap the zip-ties around the loose cords and then mount the zip-tie to the tabletop with a M5.5 x 22 pan head screw into the pre-drilled holes. The zip-ties have a built in mounting hole which must lay flat onto surface. Make sure zip-ties and cables are snug before moving to next step.

5. **Power Cord:** The final cord to be installed is the power cord. Plug power cord into remaining open socket which is tri-lobe in shape. Cord should not be zip-tied or routed through cut outs on table (Figure 6). Do not plug it into power source at this time.

6. If optional R8 power module was specified for installation, go now to page 6. If optional wire trough was specified for installation with no R8 power module, go now to page 7. If no wire trough is specified, carefully turn table to the upright position with the help of another person. Adjust glides on feet to level the table. Plug the power cord into a grounded outlet power source (Detail F). **Note:** Power cord must have enough slack so the table can cycle through its entire range of motion.

7. **The table must be "zero set" prior to being placed into service. Refer to table "zero setting" instructions in the trouble shooting guide on page 9.**

8. If the table is not operating properly, see the trouble shooting guide in this instruction.

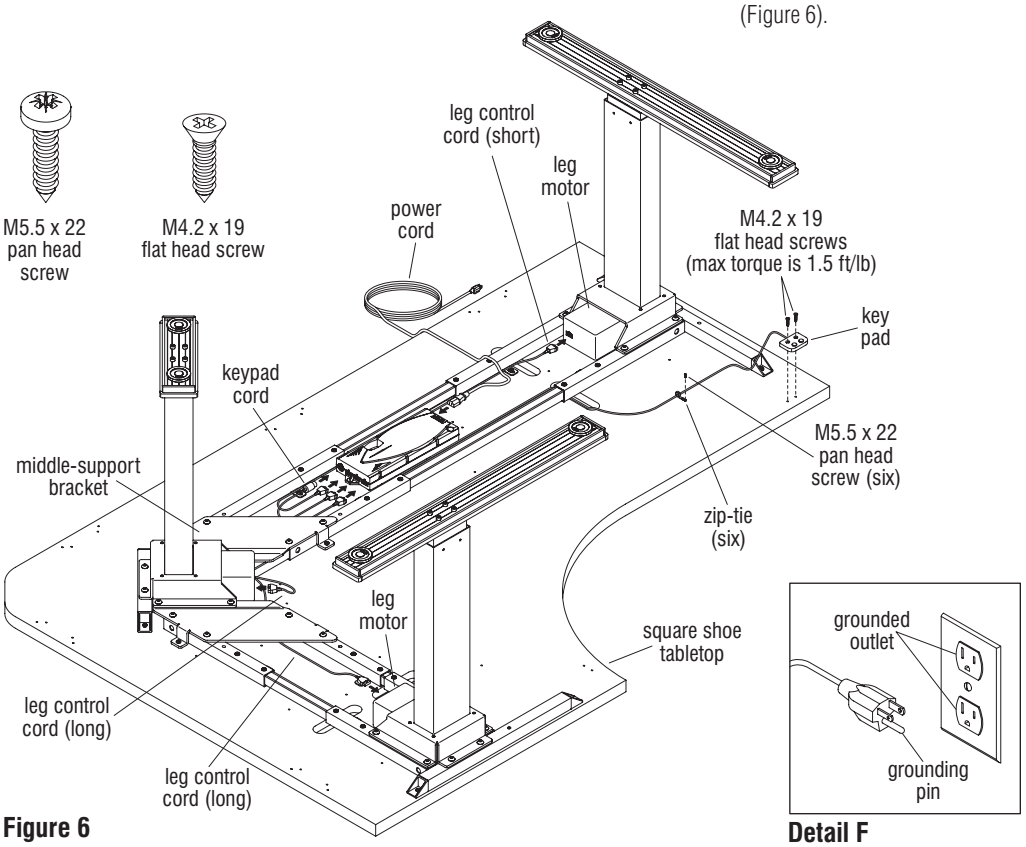


Figure 6

Detail F

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.

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 G. 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.

Undermounted R8 Power Module Installation (optional)

Note: The Undermounted R8 power module can be mounted to the underside of the Toggle tabletop between the cross-tube assemblies on the longer side of the table, and can face the user or non-user side of the table. If desired, the undermounted power module's four mounting holes can be used as a template underneath the tabletop to mark, then drill holes for an alternative mounting location.

1. Position the Undermounted R8 power module to the underside of the worksurface at the desired pre-drilled mounting location. Assure that the power cord can be routed easily to a power source (Figure 7).

2. Align the pre-drilled mounting holes of the R8 power module with the drilled mounting holes underneath the tabletop. Secure the R8 power module to the worksurface using four #8 x 3/4" wood screws. Take care to not over tighten (Figure 7).

3. Route the power cord to an approved power source if optional mounting clamps are not desired.

   CAUTION: Risk of electrical shock. Do not plug into another relocatable power tap or an extension cord.

Cable Clamp Installation (optional)

1. Route the power cord for the Undermounted R8 power module along the underside of the tabletop and mark the pilot hole locations where the cable clamps will be installed. Four cable clamps are provided with each R8 power module, but depending on your configuration not all clamps may be required (Figure 8).

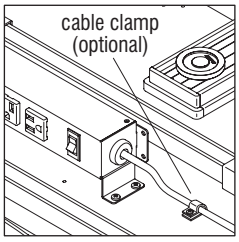
2. Position the power cord out of the way. At each marked cable clamp location, drill a pilot hole to a depth of 3/4", making sure to not drill too deep, piercing the tabletop (Figure 8).

3. Nest the power cord inside the cable clamps. Position the cable clamps over the pilot holes and secure to the tabletop using #8 x 3/4" wood screws (Figure 8 & Detail G).

4. If optional wire trough was specified for installation, go now to page 7. If no wire trough is specified, carefully turn table to the upright position with the help of another person. Adjust glides on feet to level the table. Plug the power cord into a grounded outlet power source (Detail G).
   Note: Power cord must have enough slack so the table can cycle through its entire range of motion.

5. **The table must be "zero set" prior to being placed into service. Refer to table "zero setting" instructions in the trouble shooting guide on page 9.**

6. If the table is not operating properly, see the trouble shooting guide in this instruction.



Detail G

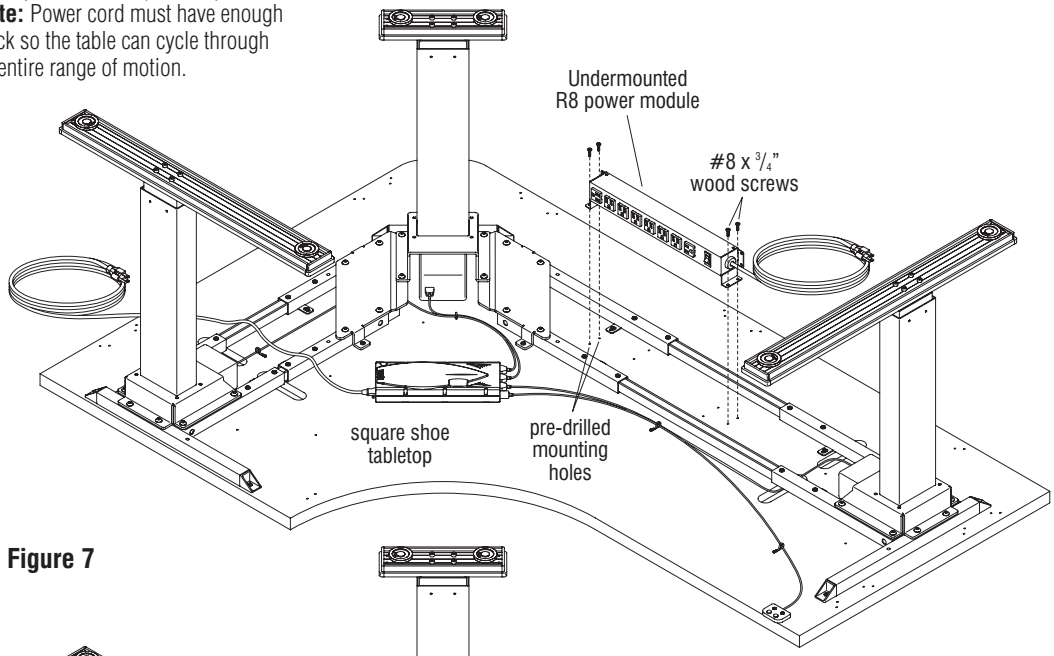


Figure 7

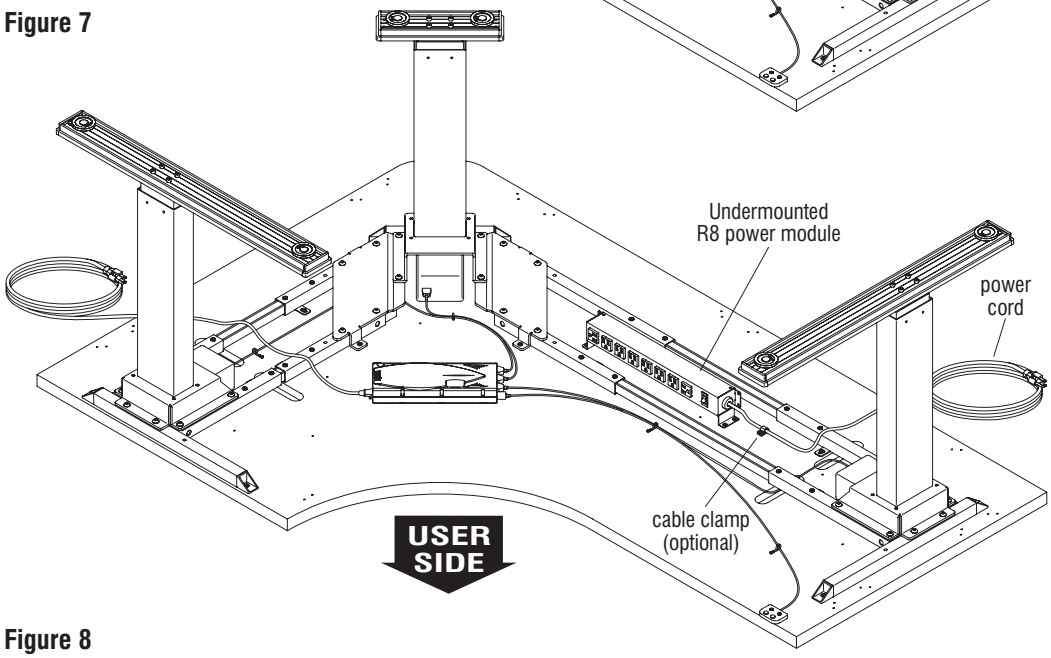


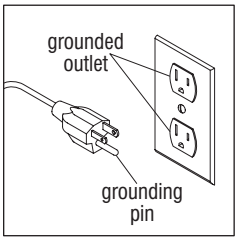
Figure 8

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 H. Make sure that the product is connected to an outlet having the same coniguration as the plug. No adapter should be used with this product.

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.



Detail H

Figure 9

Wire Trough (optional)

Note: The wire trough is an accessory that must be ordered separately.

Note: Control cables can be routed differently than shown. Tables may have the control box mounted either between the cross-tube assemblies on the longer side of the table or centered in front of the square shoe leg.

1. Align the wire trough mounting holes to the appropriate holes in the tabletop, making sure the larger cutouts on the trough are facing the user side of the table. Using six #10 x 5/8" pan head screws, secure the wire trough to the tabletop as illustrated (Figure 9).

2. With help from another person, carefully turn table to the upright position. Adjust glides on feet to level the table. Plug the power cord into a grounded outlet power source (Detail H). **Note:** Power cord must have enough slack so the table can cycle through its entire range of motion.

3. **The table must be "zero set" prior to being placed into service. Refer to table "zero setting" instructions in the trouble shooting guide on page 9.**

4. If the table is not operating properly, see the trouble shooting guide in this instruction.

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.

Universal Height-Adjustable Screens (optional)

Important: If optional Universal Height-Adjustable Screens are to be installed onto the Toggle Square Shoe Table, proceed to the Universal Height-Adjustable Screens Assembly Instructions (KI-AI-000017). Reference the chart below to identify the correct privacy screens to mount on the Triple Motor Electric-Base Table. The square shoe tabletop will have appropriate pre-drilled holes to accept the Universal Height-Adjustable Privacy Screen Models listed below.

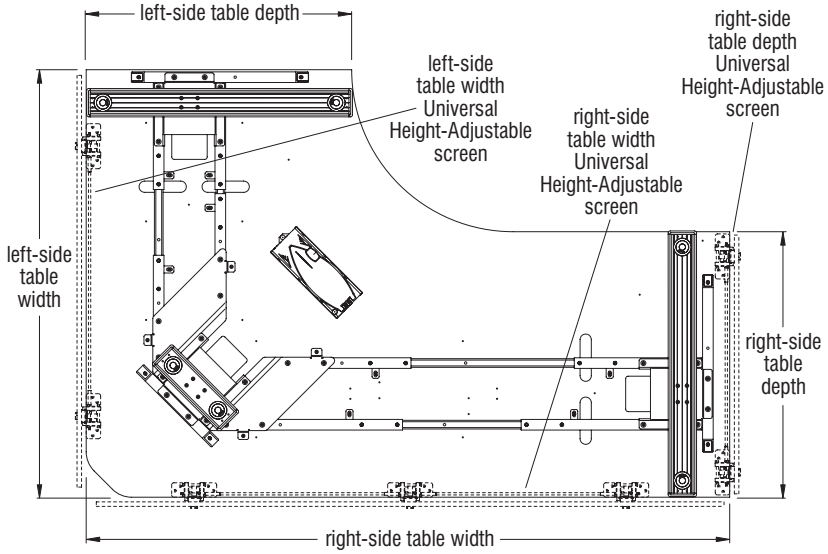


Figure 10 - (30" x 48" x 72" Model SS shown)

Model Number	Left-Side Table Depth Universal Height-Adjustable Screen	Right-Side Table Depth Universal Height-Adjustable Screen	Left-Side Table Width Universal Height-Adjustable Screen	Right-Side Table Width Universal Height-Adjustable Screen
TOGLSS244860	USPF2324	USPF2324	USPF4624	USPF5824
TOGLSS244866	USPF2324	USPF2324	USPF4624	USPF6424
TOGLSS244872	USPF2324	USPF2324	USPF4624	USPF7024
TOGLSS244884	USPF2324	USPF2324	USPF4624	USPF7024
TOGLSS246048	USPF2324	USPF2324	USPF5824	USPF4624
TOGLSS246648	USPF2324	USPF2324	USPF6424	USPF4624
TOGLSS247248	USPF2324	USPF2324	USPF7024	USPF4624
TOGLSS248448	USPF2324	USPF2324	USPF7024	USPF4624
TOGLSS304860	NA	USPF2924	USPF4624	USPF5824
TOGLSS304866	NA	USPF2924	USPF4624	USPF6424
TOGLSS304872	NA	USPF2924	USPF4624	USPF7024
TOGLSS304884	NA	USPF2924	USPF4624	USPF7024
TOGLSS306048	USPF2924	NA	USPF5824	USPF4624
TOGLSS306648	USPF2924	NA	USPF6424	USPF4624
TOGLSS307248	USPF2924	NA	USPF7024	USPF4624
TOGLSS308448	USPF2924	NA	USPF7024	USPF4624

Universal Height-Adjustable Screen Chart for Model SS Tables

Model Number	Operating Load Capacity
TOGLSS244860	260 lb
TOGLSS244866	255 lb
TOGLSS244872	250 lb
TOGLSS244884	240 lb
TOGLSS246048	260 lb
TOGLSS246648	255 lb
TOGLSS247248	250 lb
TOGLSS248448	240 lb
TOGLSS304860	250 lb
TOGLSS304866	245 lb
TOGLSS304872	235 lb
TOGLSS304884	225 lb
TOGLSS306048	250 lb
TOGLSS306648	245 lb
TOGLSS307248	235 lb
TOGLSS308448	225 lb

Table Operating Capacity Chart

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.

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.



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.

Electrical Rating:
Input: 120V/60HZ/5A **Output:** 216VA/24V

WARNING: Risk of Injury-Do not exceed recommended operating loads. See Table Operating Capacity Chart on page 8.

Duty Cycle: 10% per hour. (2 minutes "ON" and 18 minutes "OFF" at continuous operation under load.

This table is not designed for continuous operation. Table operation must not exceed duty cycle.

Toggle Troubleshooting Guide

**** Table "Zero Setting"**

Press and hold the Up button for two seconds then release. Next, press and hold the Down button until table has reached its lowest position then release Down button. Then, press the Down button again and hold for approximately 10 seconds. The table now re-set at its "Zero Setting" position and is ready to operate. **Note:** Intellect System Protection (ISP) detection is disabled during "Zero Setting" Operation.

Warning: In spite of Intellect System Protection (ISP) being in place, there may still be a risk of pinching in exceptional cases, as it is not only the control unit, but also the interaction between the mechanical and electrical systems that is responsible for cutting out the motor. In addition, the mechanical components, motor and ambient conditions all affect cut-out sensitivity. KI and the control unit manufacturer, cannot therefor eliminate this residual risk completely or accept any liability.

Symptom	Reason	Corrective Measure
Table does not move.	• Incorrect or no voltage.	• Verify there is power to the table. Make sure the table is properly plugged into a functioning power source. Make sure the power cord is fully engaged into the socket on the control box.
	• Table requires "Zero Setting".	• Perform Table "Zero Setting" **.
	• One of more component connectors has come disconnected or not fully connected.	• Verify all connectors are securely connected to legs and to control box. Disconnect and re-connect each one to ensure it is properly seated, then preform a Table "Zero Setting" **.
	• Damaged components or connectors.	• Check for visible damage to all connectors and connector receptacles.
	• Table has exceeded its duty cycle.	• Allow table to cool.
Table Base moves erratically or is tilted (one leg moves, one does not).	• Control box is not properly synchronized with the legs.	• Ensure that all cables connections are fully seated. Then perform a Table "Zero Setting" **.
Table base stops and will only move down (or up).	• Table may be at its highest (or lowest) position (range 26" at the lowest to 52" at the highest) and then can only go down (or up).	• Press the other switch button.
	• Table or an object on the table is colliding with an obstruction.	• Perform a visual check and clear any obstructions.
	• Table is overloaded or the weight on the table is not evenly distributed.	• Reduce load and attempt to adjust the table.
	• Control box is not properly synchronized with the legs.	• Ensure that all cable connections are fully seated. Then perform a Table "Zero Setting" **.
All above corrective measures have been applied and table still does not move.	• Control Box is damaged.	• Forward the part number (P/N) off the control box label (located next to receptacles) to your Customer Service Representative.
Table does not reach its correct highest (52") or lowest (26") position.	• Table limits may need to be programmed.	• Contact your customer service representative.

Toggle® Tables - Triple Motor C-Leg Height-Adjustable Square Shoe Base, Model SS

Assembly Instructions

1330 Bellevue Street • P.O. Box 8100 • Green Bay, WI 54308-8100 • Tel 1-800-424-2432 • www.ki.com

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