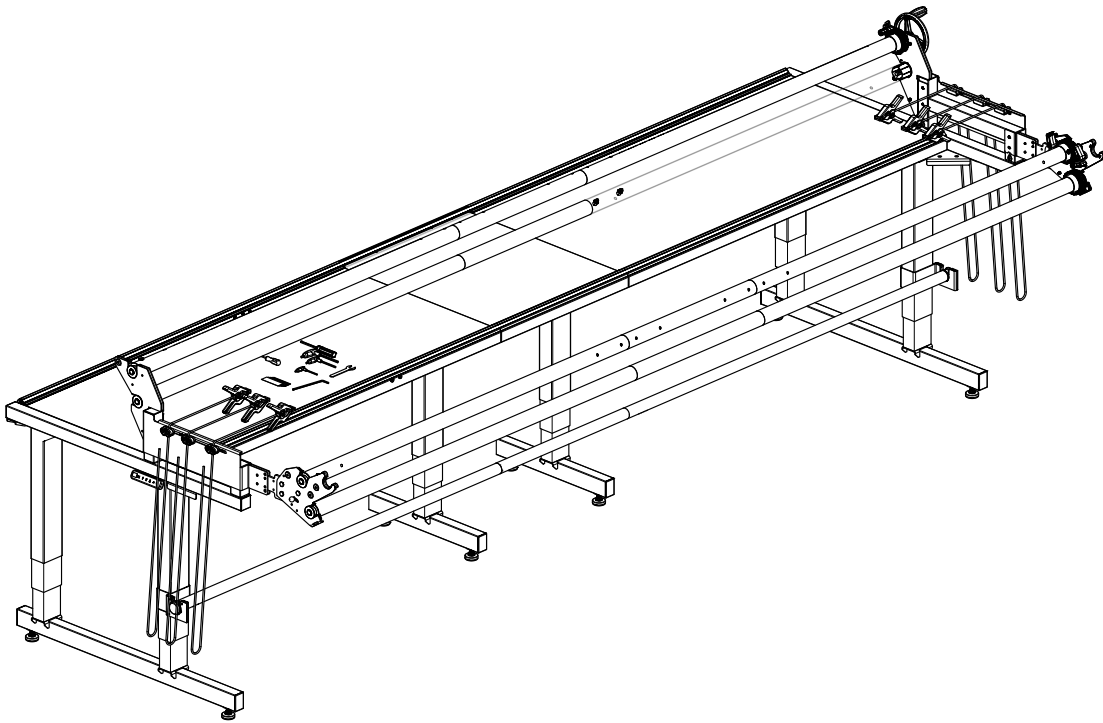


# Gallery3 10', 12', 15' Frame Assembly Instructions

January 22, 2026



# Gallery3 10', 12', 15' Frame Assembly Instructions

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# Frame Box Contents

## 10-Foot Frame

### **Box 1** (qty 1)

Hardware, Small Parts, and Tools  
Frame Assembly Instructions

### **Box 2** (qty 2)

5-Foot Table Assy w/Track Supports w/Screws (1)

### **Box 3** (qty 2)

5-Foot 1.5" pole (batting pole) (1)  
5-Foot 2" pole (4)

### **Box 4** (qty 1)

Left Rear Pole Side Arm Assy (1)  
Right Rear Pole Side Arm Assy (1)  
Left Front Pole Side Arm Assy (1)  
Right Front Pole Side Arm Assy (1)  
Left Batting Bar Bracket (1)  
Right Batting Bar Bracket (1)  
Left Plate Connector (1)  
Right Plate Connector (1)  
Bracket Side Arm Support Front (2)  
Bracket Side Arm Support Rear (2)  
Plate Control Box Mount (2)

### **Box 5** (qty 1)

Table Coupler Screw (8)  
Pole Coupler Screw (20)  
Track Support Coupler Screw (12)  
Bottom Lift Column Screw (4)  
Pole Coupler for 1.5" diameter (1)  
Pole Coupler for 2" diameter (4)  
Foot- Middle (1)  
Table Coupler (2)  
Track Support Coupler (2)

### **Box 6** (qty 0 - Not used on 10' frame)

### **Box 7** (qty 1)

Tube-Table to Side Arm Connector Left (1)  
Tube-Table to Side Arm Connector Right (1)  
Foot-Outer (2)

### **Box 8** (qty 1)

9.5' Super-Leader Set (1)  
10' Velcro Set (1)  
10' Pair Black Plastic Track (2)

### **Box 9** (qty 0 - Not used on 10' frame)

### **Box 10** (qty 0 - Not used on 10' frame)

### **Box 11** (qty 1)

3 Column Control Box (1)  
Power Cable (2)  
Lifting Column w/4 top screws pre-installed (2)

### **Box 12** (qty 1)

Cable Extension 1.5m (4)  
Cable Extension 3.0m (2)  
Lifting Column w/4 top screws pre-installed (2)

### **Box 13** (qty 1)

Key Pad (1)  
Communications Cable (1)  
2 Column Control Box (1)  
Lift Instructions (1)  
Lifting Column w/4 top screws pre-installed (1)

### **Box 14** (qty 0 - not used on 10' frame)

# Frame Box Contents

## 12-Foot Frame

### **Box 1** (qty 1)

Hardware, Small Parts, and Tools  
Frame Assembly Instructions

### **Box 2** (qty 2)

5-Foot Table Assy w/Track Supports w/Screws (1)

### **Box 3** (qty 2)

5-Foot 1.5" pole (batting pole) (1)  
5-Foot 2" pole (4)

### **Box 4** (qty 1)

Left Rear Pole Side Arm Assy (1)  
Right Rear Pole Side Arm Assy (1)  
Left Front Pole Side Arm Assy (1)  
Right Front Pole Side Arm Assy (1)  
Left Batting Bar Bracket (1)  
Right Batting Bar Bracket (1)  
Left Plate Connector (1)  
Right Plate Connector (1)  
Bracket Side Arm Support Front (2)  
Bracket Side Arm Support Rear (2)  
Plate Control Box Mount (2)

### **Box 5** (qty 2)

Table Coupler Screw (8)  
Pole Coupler Screw (20)  
Track Support Coupler Screw (12)  
Bottom Lift Column Screw (4)  
Pole Coupler for 1.5" diameter (1)  
Pole Coupler for 2" diameter (4)  
Foot- Middle (1)  
Table Coupler (2)  
Track Support Coupler (2)

### **Box 6** (qty 1)

2-Foot Table Assy w/Track Supports w/Screws (1)  
2-Foot 2" Pole (4)  
2-Foot 1.5" Pole (1)

### **Box 7** (qty 1)

Tube-Table to Side Arm Connector Left (1)  
Tube-Table to Side Arm Connector Right (1)  
Foot-Outer (2)

### **Box 8** (qty 0, Not used on 12' frame)

### **Box 9** (qty 1)

11.5' Leader Set (1)  
12' Velcro Set (1)  
12' Pair Black Plastic Track (2)

### **Box 10** (qty 0 Not used on 12' frame)

### **Box 11** (qty 1)

3 Column Control Box (1)  
Power Cable (2)  
Lifting Column w/4 top screws pre-installed (2)

### **Box 12** (qty 1)

Cable Extension 1.5m (4)  
Cable Extension 3.0m (2)  
Lifting Column w/4 top screws pre-installed (2)

### **Box 13** (qty 0 - Not used on 12' frame))

### **Box 14** (qty 1)

Key Pad (1)  
Communications Cable (1)  
3 Column Control Box (1)  
Lift Instructions (1)  
Lifting Column w/4 top screws pre-installed (2)

# Frame Box Contents

## 15-Foot Frame

### **Box 1** (qty 1)

Hardware, Small Parts, and Tools  
Frame Assembly Instructions

### **Box 2** (qty 3)

5-Foot Table Assembly w/Track Supports w/Screws

### **Box 3** (qty 3)

5-Foot 1.5" pole (batting pole) (1)  
5-Foot 2" pole (4)

### **Box 4** (qty 1)

Left Rear Pole Side Arm Assy (1)  
Right Rear Pole Side Arm Assy (1)  
Left Front Pole Side Arm Assy (1)  
Right Front Pole Side Arm Assy (1)  
Left Batting Bar Bracket (1)  
Right Batting Bar Bracket (1)  
Left Plate Connector (1)  
Right Plate Connector (1)  
Bracket Side Arm Support Front (2)  
Bracket Side Arm Support Rear (2)  
Plate Control Box Mount (2)

### **Box 5** (qty 2)

Table Coupler Screw (8)  
Pole Coupler Screw (20)  
Track Support Coupler Screw (12)  
Bottom Lift Column Screw (4)  
Pole Coupler for 1.5" diameter (1)  
Pole Coupler for 2" diameter (4)  
Foot- Middle (1)  
Table Coupler (2)  
Track Support Coupler (2)

### **Box 6** (qty 0 - Not used on 15' frame)

### **Box 7** (qty 1)

Tube-Table to Side Arm Connector Left (1)  
Tube-Table to Side Arm Connector Right (1)  
Foot-Outer (2)

### **Box 8** (qty 0 - Not used on the 15' frame)

### **Box 9** (qty 0 - Not used on 15' frame)

### **Box 10** (qty 1)

14.5' Super-Leader Set (1)  
15' Velcro Set (1)  
15' Pair Black Plastic Track (2)

### **Box 11** (1)

3 Column Control Box (1)  
Power Cable (2)  
Lifting Column w/4 top screws pre-installed (2)

### **Box 12** (qty 1)

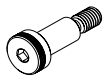
Cable Extension 1.5m (4)  
Cable Extension 3.0m (2)  
Lifting Column w/4 top screws pre-installed (2)

### **Box 13** (qty 0 -Not used on 15' frame)

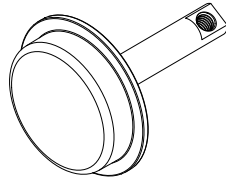
### **Box 14** (qty 1)

Key Pad (1)  
Communications Cable (1)  
3 Column Control Box (1)  
Lift Instructions (1)  
Lifting Column w/4 top screws pre-installed (2)

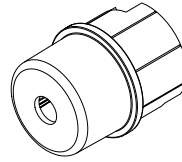
# Frame Parts List - Box 1 (10' used 1x, 12' used 1x, 15' used 1x)



Shoulder Screw  
**Box 1 (1)**  
 M8x16 SHLD M6 THRD  
 Used on 1.5" batting  
 pole  
 QF09341-708



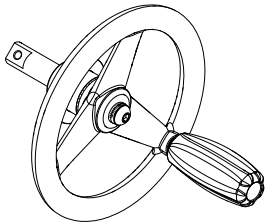
Locking Retainer  
**Box 1 (1)**  
 QF09341-706



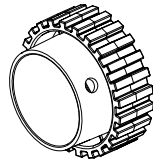
Pole End  
**Box 1 (2)**  
 QF09341-703



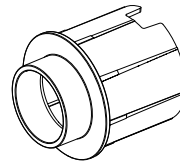
Retainer Pole End  
**Box 1 (1)**  
 QF09341-705



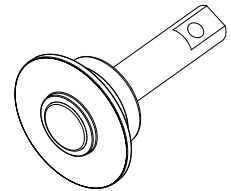
Handwheel Assembly  
**Box 1 (1)**  
 QF12500-770



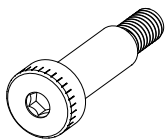
Ratchet Wheel  
**Box 1 (3)**  
 QF12500-707



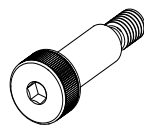
Rail Bearing , GF3  
**Box 1 (8)**  
 QF12500-703



Retainer Pole End, 2" GF3  
**Box 1 (7)**  
 QF12500-704



Screw-M8X22 SKC  
 Shoulder w/M6 threads  
**Box 1 (3)**  
 Note: the slightly longer  
 shoulder screws are used on  
 the 2" pole ends with ratchet  
 wheels.  
 QF12500-705



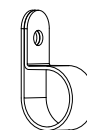
Screw-M8X20 SKC  
 Shoulder w/M6 threads  
**Box 1 (5)**  
 Note: the slightly shorter  
 shoulder screws are used on  
 the 2" pole ends without  
 ratchet wheels.  
 QF09318-722



Key pad Screws M4X16  
 SKB  
**Box 1 (2)**  
 QM10785

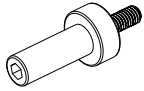


Controller to Mount  
 Plate Screw M4X12 SKB  
**Box 1 (4)**  
 QM13237



P-clip 20mm  
**Box 1 (9)**  
 QF10112

# Frame Parts List-Box 1 Continued (10' used 1x, 12' used 1x, 15' used x1)



Screw-M6x15  
w/Spacer  
**Box 2 (4)**  
**Box 6 (4)**

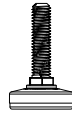
**pre-installed to  
table assemblies**

QF09341-03



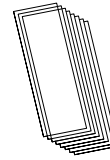
Screw-M8X20 Flgd SKB  
**Box 1 (24)**

QM10959



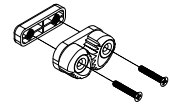
Leveling Foot  
**Box 1 (4) Box 5 (2)**

QF09318-108



Track Alignment Kit  
**Box 1 (1)**

QF00100



Bungee Grabber™ Ass'y  
**Box 1 (6)**

#HG10003



Screw SA  
Connector Plate  
**M4X10 SKB ZN**  
**Box 1 (4) each**

Screw QM10173



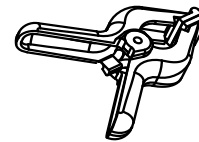
Screw/Washer  
for batting bar  
bracket  
**M6X20 SKC ZN**  
**M6 Flat**

**Box 1 (4) each**  
Screw QM10721  
Washer QM10642



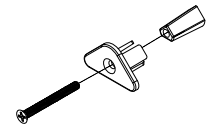
Screw for bottom  
of lift column  
**M6X16 SKB ZN**

**Box 1 (20)**  
**Box 5 (4)**  
QM10955



Bungee Clamp  
**Box 1 (6)**

QF09318-110



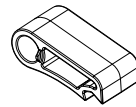
Retainer-Locking for Track  
**Box 1 (4)**

Part #QF09341-113



Screw SA  
Connector Plate  
**M4X16 SKB ZN**  
**Box 1 (13) each**

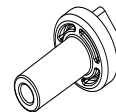
Screw QM13220



Ratchet-Stop  
**Box 1 (4)**  
QF09318-203



Ratchet-Stop Mount  
**Box 1 (4)**  
QF09318-202



Ratchet-Stop  
Bushing  
**Box 1 (4)**  
QF09318-201



Ratchet-Stop  
Holder  
**Box 1 (4)**  
QF09318-205

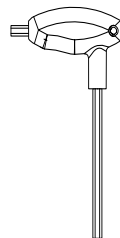


Washer  
**M4 ZN**  
**Box 1 (8) each**

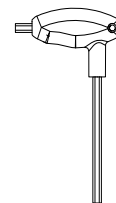
Screw QM10229



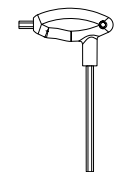
5mm Hex Tool **Box 1 (1)**  
QM40415



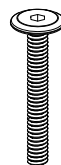
5mm Hex Tool **Box 1(1)**  
QF09318-113



4mm Hex Tool **Box 1 (1)**  
QF09318-112



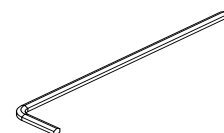
3mm Hex Tool **Box 1 (1)**  
QF09318-111



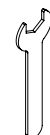
Connector Screw **Box**  
M6 x 48mm  
**Box 1 (4)**  
QF09318-204



2.5mm Hex Tool (1)  
**Box 1** HG01400-21

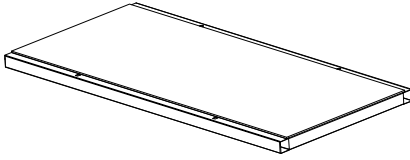


4mm L Hex Tool (1)  
**Box 1** QM40407



16mm Wrench (1)  
**Box 1** QM40230

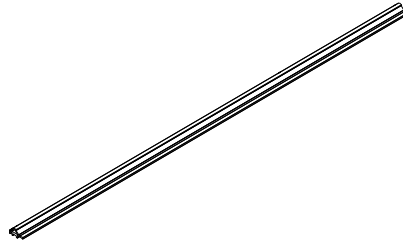
## Frame Parts List - Box 2 (10' used 2x, 12' used 2x, 15' used 3x)



5-Foot Table Section  
Box 2 (1)

**Note: the above part # includes QF12500-301 table frame and QF12500-302 plastic table top only; however, they ship with two track supports QF09318-02-5 and four QF09341-03 coupler screws pre-assembled in the box when a frame is shipped.**

QF12500-300

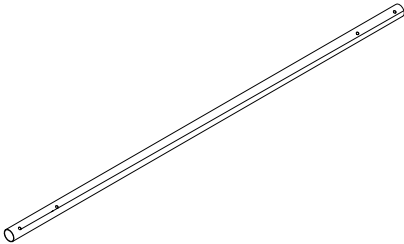


5-Foot Track Support Section  
Box 2

**Note: These come pre-assembled to the table section QF12500-300 with QF09341-03 screws with spacer when a frame is shipped.**

QF09318-02-5

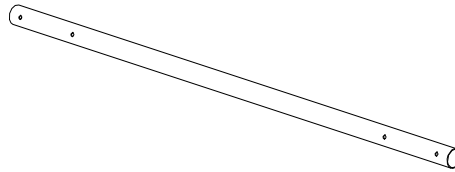
## Frame Parts List - Box 3 (10' used 2x, 12' used 2x, 15' used 3x)



5-Foot 1.5" Pole Section  
Box 3 (1)

Used only on the 1.5" diameter batting bar  
two on 10-foot frame per pole assembly  
two on 12-foot frame per pole assembly  
three on 15-foot frame per pole assembly

QF12500-712

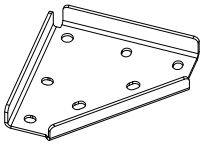


5-Foot 2" Pole Sections  
Box 3 (4)

10-Foot Frame box uses 2 box 3.  
12-Foot Frame uses 2 box 3.  
15-Foot Frame uses 3 box 3.

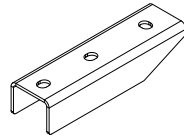
QF12500-701

# Frame Parts List - Box 4 (10' used 1x, 12' used 1x, 15' used 1x)



Bracket Side Arm Support Front  
**Box 4 (2)**

QF12500-404



Bracket Side Arm Support Rear  
**Box 4 (2)**

QF12500-403

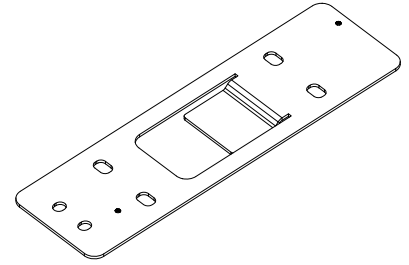
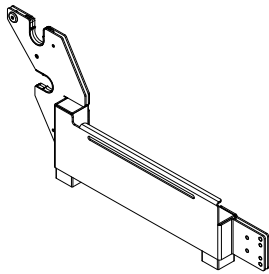


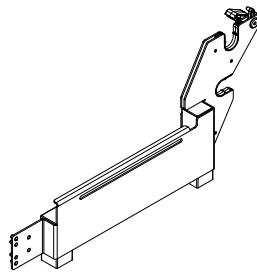
Plate-Control Box Mount, GF3  
**Box 4 (2)**

QF12500-304



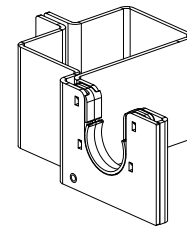
Left Rear Pole Side Arm Assy  
**Box 4 (1)**

QF12500--210



Right Rear Pole Side Arm Assy  
**Box 4 (1)**

QF12500-110



Left Batting Bar Bracket  
**Box 4 (1)**

Uses: QM10721 Screw M6x20 SKC (2) **Box 1**  
Uses: QM10642 Washer M6 (2) **Box 1**  
QF12500-411

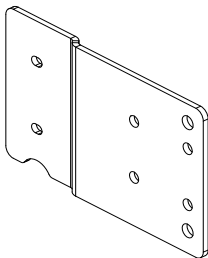


Plate Connector Left  
**Box 4 (1)**

Uses: QM13220 Screw M4X16 SKB (2) **Box 1**  
Uses: QM10173 Screw M4X10 SKB (2) **Box 1**  
Uses: QM10229 Washer M4 Flat (4) **Box 1**

QF12500-240

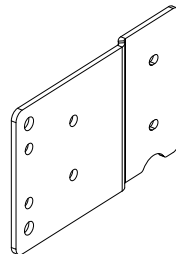
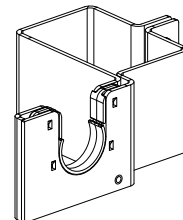


Plate Connector Right  
**Box 4 (1)**

Uses: QM13220 Screw M4X16 SKB (2) **Box 1**  
Uses: QM10173 Screw M4X10 SKB (2) **Box 1**  
Uses: QM10229 Washer M4 Flat (4) **Box 1**

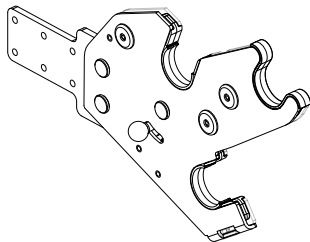
QF12500-140



Right Batting Bar Bracket  
**Box 4 (1)**

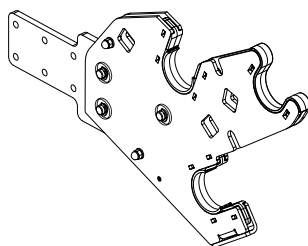
Uses: QM10721 Screw M6x20 SKC (2) **Box 1**  
Uses: QM10642 Washer M6 (2) **Box 1**

QF12500-410



Left Front Pole Side Arm Assy  
**Box 4 (1)**

QF12500-220



Right Front Pole Side Arm Assy  
**Box 4 (1)**

QF12500-120

# Frame Parts List - Box 5 (10' used 1x, 12' used 2x, 15' used 2x)



Table Frame Coupler  
Screw  
M8X16 SKS  
**Box 5 (8)**  
QF09341-05



Pole Coupler  
Screw  
M10 X 25M SKS  
**Box 5 (20)**  
QM10784



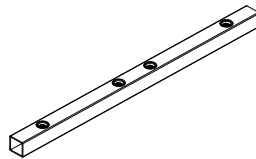
Track Support Coupler  
Screws  
Screw-M5 X 8 SKB ZN  
**Box 5 (12)**  
QF09318-304



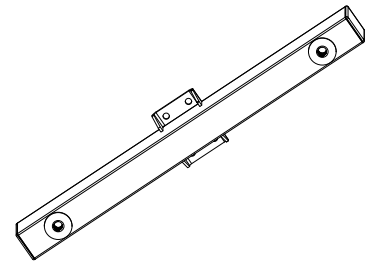
Screw for bottom of lift column  
**M6X16 SKB ZN**  
**Box 1 (20)**  
**Box 5 (4)**  
QM10955



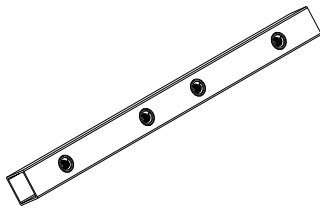
Screw for Top of Lift Column  
Screw-M6X10 SKB  
**Four of these screws come pre-installed in the top of each lift column; zero in box 5.**  
QM13300



Pole Coupler for 1.5" diameter  
**Box 5 (1)**  
Used only on the 1.5" diameter batting bar  
one on 10-foot frame per pole assembly  
two on 12-foot frame per pole assembly  
two on 15-foot frame per pole assembly  
QF09341-702



Foot-Middle  
**Box 5 (1)**  
QF12500-602  
QM10955 Screw M6x16 SKB (4/leg)  
Note: comes with two QF12500-407 end caps installed  
QF12500-602



Pole Coupler 2", GF3  
**Box 5 (4)**  
Uses M10x25 SKS screw  
QF12500-702

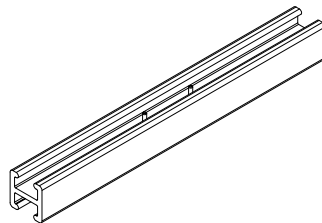
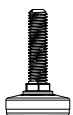


Table Frame Coupler  
**Box 5 (2)**  
Uses M8x16 SKS screw  
QF12500-303

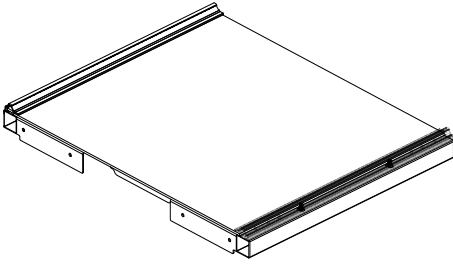


Track Support Coupler  
**Box 5 (2)**  
Uses M5x8 SKB screw  
QF09318-03



Leveling Foot  
**Box 1 (4) Box 5 (2)**  
QF09318-108

## Frame Parts List - Box 6 (10' used 0x, 12' used 1x, 15' used 0x)

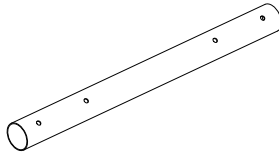


2-Foot Table Section

**Box 6 (1)**

Used only on the 12-Foot Frame

QF12500-310

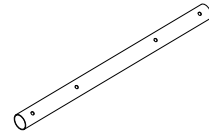


2-Foot 2" diameter Pole Section

**Box 6 (4)**

Used only on the 12-Foot Frame

QF12500-711



2-Foot 1.5" diameter Pole Section

**Box 6 (1)**

Used only on the 1.5" diameter batting bar on the 12-foot frame

QF09337-701

**Note: the above part # includes table frame with plastic table with two track supports QF09341-02--G3 installed with four QF09341-03 coupler screws pre-assembled in the box when a frame is shipped.**



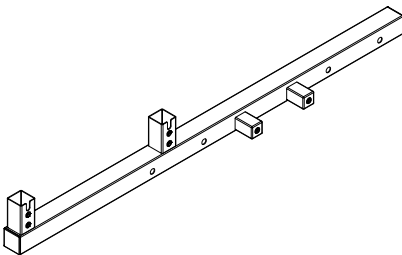
2-Foot Track Support

**Box 6 (2)**

Note: these comes pre-installed on QF12500-310 w (4) QF09341-03 coupler screws as shown above

QF09304-02-G3

## Frame Parts List - Box 7 (10' used 1x, 12' used 1x, 15' used 1x)

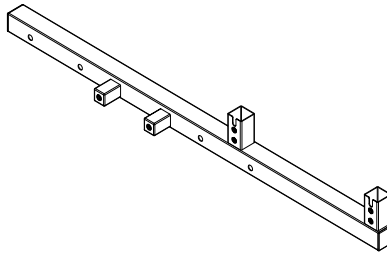


Tube-Table to Side Arm Connector Left

**Box 7 (1)**

Note: comes with two QF09341-401-3 end caps pre-installed

QF12500-501

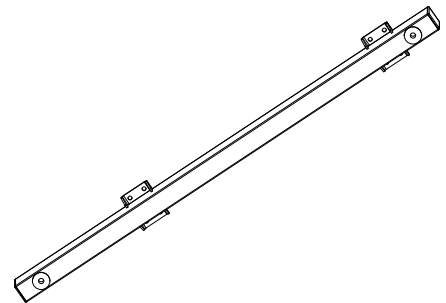


Tube-Table to Side Arm Connector Right

**Box 7 (1)**

Note: comes with two QF09341-401-3 end caps installed

QF12500-401



Foot-Outer

**Box 7 (2)**

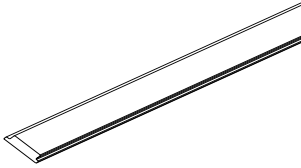
Note: uses 4/leg QM10955 Screw M6x16 SKB  
Note: comes with two QF12500-407 end caps installed

QF12500-402

# Frame Parts List - Box 8, 10-Foot Frame (used 1x)

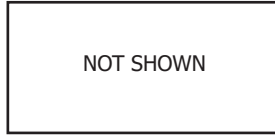
- **Box 9, 12-Foot Frame** (used 1x)

- **Box 10, 15-Foot Frame** (used 1x)

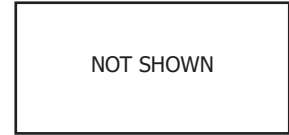


**Black Plastic Track**  
come in sets of two

- 10-Foot QF05300-04 **Box 8** (2)
- 12-Foot QF09318-04, **Box 9** (2)
- 15-Foot QF09318-15 **Box 10** (2)

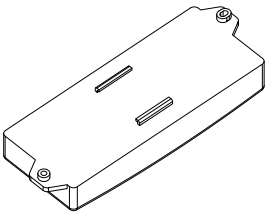


Velcro Set (1)  
10-foot **Box 8** QF00665  
12-foot **Box 9** QF00669  
15-foot **Box 10** QF00615



Leader-Super Set (1)  
9.5' **Box 8** QF09548  
11.5' **Box 9** QF09558  
14.5' **Box 10** QF09550-HQ

# Frame Parts List - Box 11 (10', 12', 15' used 1x)



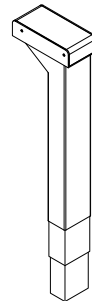
**3 Column Control Box**  
**Box 11** (1), **Box 14** (1)

QF12500-803

Not Shown

**Power Cable**  
**Box 11** (2)

QF12500-805



**Lifting Column**  
**Box 11** (2), **Box 12** (2), **Box 14** (2)

**Note: Four M6x10 SKB (QM13300) screws come pre-installed in the top of each lift column.**

QF012500-801

## Frame Parts List - Box 12 (10', 12', 15' used 1x)

Not Shown

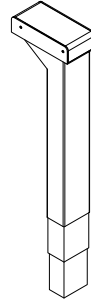
Cable 1.5m Extension  
**Box 12 (4)**

QF12500-808

Not Shown

Cable 3.0 m Extension  
**Box 12 (2)**

QF12500-807

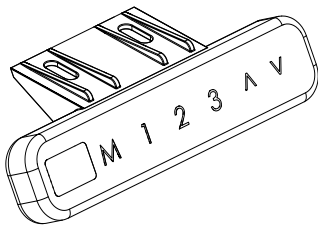


Lifting Column  
**Box 11 (2), Box 12 (2), Box 14 (2)**

**Note: Four M6x10 SKB (QM13300) screws come pre-installed in the top of each lift column.**

QF012500-801

## Frame Parts List - Box 13 (10' used 1x)



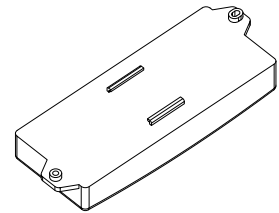
Key Pad  
**Box 13 (1), Box 14 (1)**

QF12500-802

Not Shown

Cable Communications  
**Box 13 (1), Box 14 (1)**

QF12500-806



2 Column Control Box  
**Box 13 (1)**

QF12500-804

Not Shown

Instructions  
**Box 13 (1)**

No Part #

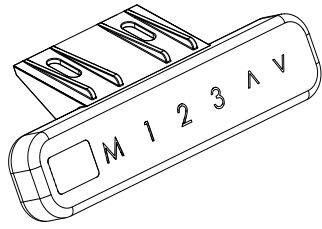


Lifting Column  
**Box 13 (1)**

**Note: Four M6x10 SKB (QM13300) screws come pre-installed in the top of each lift column.**

QF012500-801

# Frame Parts List - Box 14 (12' and 15' used 1x)



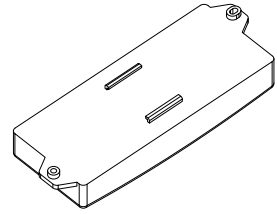
Key Pad  
**Box 13 (1), Box 14 (1)**

QF12500-802

Not Shown

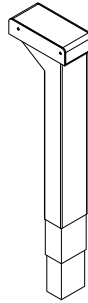
Cable Communications  
**Box 13 (1), Box 14 (1)**

QF12500-806



3 Column Control Box  
**Box 11 (1) Box 14 (1)**  
12-Foot Frame and 15-Foot frame use two  
3 Column Controllers.

QF12500-803



Not Shown

Lifting Column  
**Box 11 (2), Box 12 (2), Box 14 (2)**

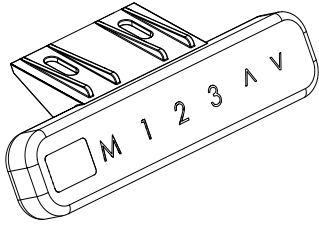
**Note: Four M6x10 SKB (QM13300)  
screws come pre-installed in the top  
of each lift column.**

QF012500-801

Instructions

**Box 14 (1)**  
No Part #

# Lift Parts Summary - Note different boxes



Key Pad  
**Box 13 (1), Box 14 (1)**  
 QF12500-802



Key pad Screws M4X16 SKB  
**Box 1 (2)**  
 QM10785

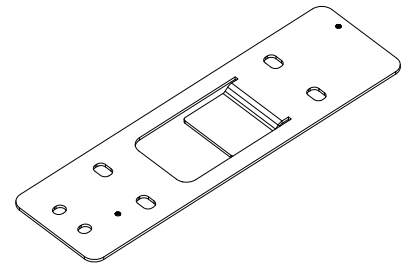
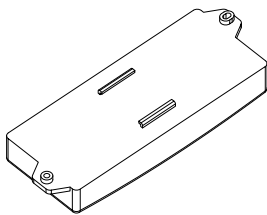
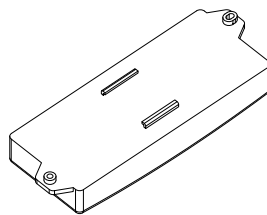


Plate-Control Box Mount, GF3  
**Box 4 (2)**  
 QF12500-304



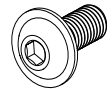
3 Column Control Box  
**Box 11 (1) Box 14 (1)**  
 12-Foot Frame and 15-Foot frame use two  
 3 Position Controllers.  
 QF12500-803



2 Column Control Box  
**Box 13 (1)**  
 10-Foot Frame uses one 2-Position  
 Controller and one 3 Position Controller.  
 QF12500-804



Controller to  
 Mount Plate  
 Screw M4X12  
 SKB  
**Box 1 (4)**  
 QM13237



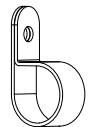
Screw M8X20  
 Flagd SKB  
**Box 1 (4)**  
 QM10959

Not Shown

Not Shown



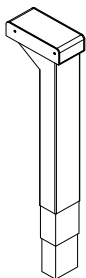
Screw-M4x16 SKB  
**Box 1 (9)**  
 QM13220



P-clip 20mm  
**Box 1 (9)**  
 QF10112

Cable 1.5m Extension  
**Box 12 (4)**  
 QF12500-808

Cable 3.0 m Extension  
**Box 12 (2)**  
 QF12500-807



Lifting Column  
**Box 11 (2), Box 12 (2), Box 14 (2)**  
**Box 13 (1)**  
 QF012500-801



Screw for bottom of  
 leg column  
 M6X16 SKB ZN  
**Box 1 (20) Box 5 (4)**  
 QM10955




Screw for Top of Leg  
 Column  
 Screw-M6X10 SKB  
**Four come pre-installed in  
 each lift column**  
 QM13300

Not Shown  
 Cable Power Supply  
**Box 11 (2)**  
 QF12500-805

Not Shown  
 Cable Communications  
**Box 13 (1) Box 14 (1)**  
**Box**  
 QF12500-806

# Step 1: Table End Assembly

 **NOTE:** Assembly will be easier if all connections are tightened lightly at first (called finger-tightening), as instructed, while assembling the frame. Tighten with tools only when instructed.

Why is this important? If you tighten as you go, you may have trouble getting all the parts to align properly.

## Parts Needed

- 1 - 5-Foot Table Section QF12500-300 (Box 2)
- 2 - Lift Column QF12500-801 w/4 Screws-QM13300, M6x10 SKB (Box 11, Box 12)

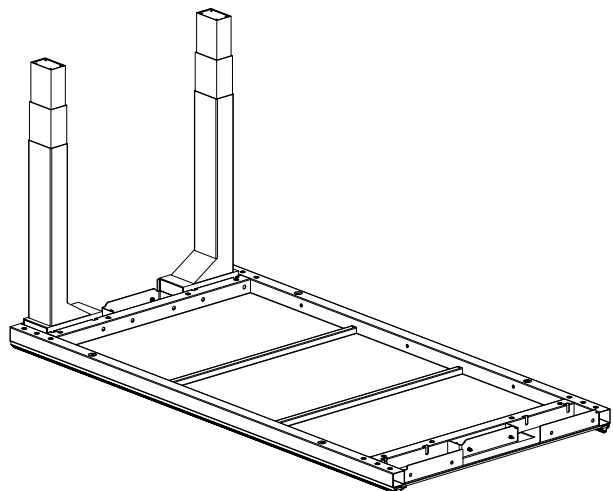
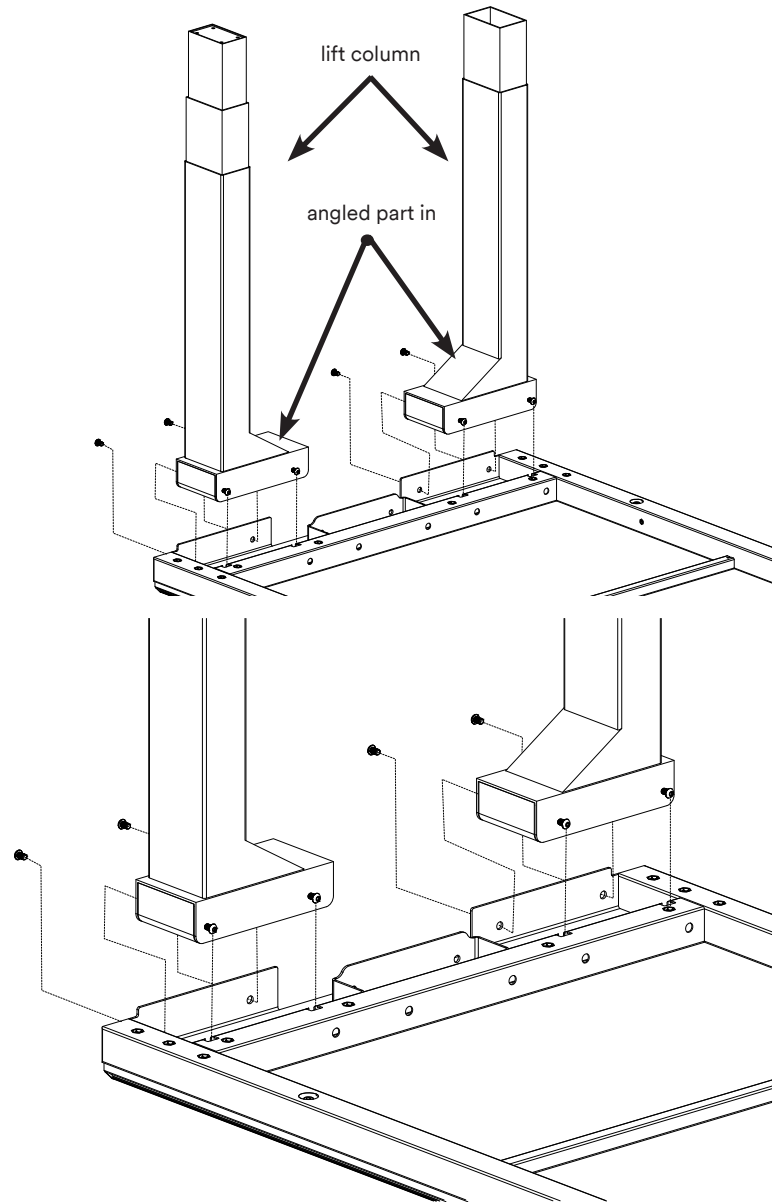
## Tools Required

4mm L Hex Tool, QM40407

- 1-1:** Place a 5-foot table top upside down (black top down), on a safe floor surface; a surface that will not be damaged by the frame and that will not damage the frame.
- 1-2:** Remove the two outside M6x10 screws in each column; however, leave the inside screws in about half way. The inside screws will slide down into slots to make them easier to assemble.

 **NOTE:** Take care not to pinch the lift column cord

- 1-3:** Position two lift columns as shown; notice the angled part goes in. Slide the lift columns down fully into the table top.
- 1-4:** Align and start the outside screws through the table top holes and into the lift column.
- 1-5:** Using the provided 4mm hex tool (QM40407) fully tighten the four screws into both lift columns.
- 1-6:** Repeat Steps 1-1 to 1-5 for a second table end assembly.



## Step 2: Left Table End Assembly

The next two steps take the table ends created in step one, which were the same and makes them left and right table ends.

### Parts Needed

- 1 - Left Batting Bar Bracket, QF12500-411 (Box 4)
- 2 - Screws, QM10721, M6x20 SKC ZN (Box 1)
- 2 - Washers, QM10642, M6 (Box 1)
- 1 - Outer Foot, QF12500-402 (Box 7)
- 8 - Screw for bottom of lift column, QM10955 M6x16 SKB ZN (Box 1)
- 2 - Leveling Foot, QF09318-108 (Box 1)

### Tools Required

- 4mm Hex Tool QF09318-112 or QM40407
- 5mm Hex Tool, QF09318-113
- 16mm wrench, QM40230

**2-1:** Slide the left batting bar bracket about half way down onto the lift column as shown at right. Notice the direction it faces.


**2-2:** Insert two M6x20 SKC screws with washers into the bracket. Snug the screws only for now with a 5mm hex tool. You will want to adjust this further when the batting is loaded onto the batting pole before fully tightening.

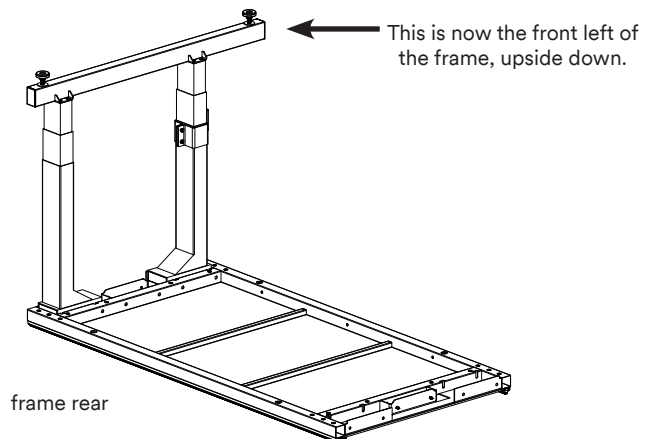
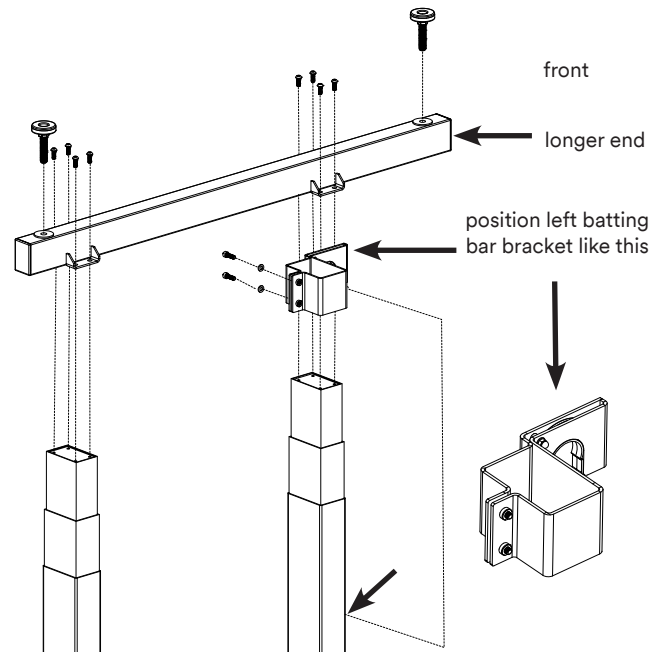
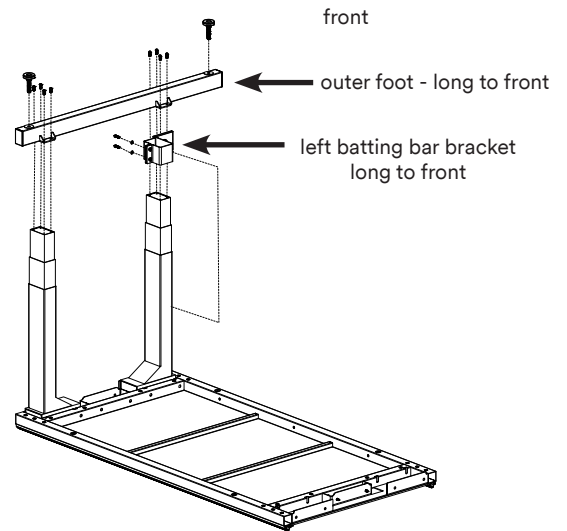
**2-3:** Place an outer foot on top of the two lift columns with the long part as shown to the front.

**2-4:** Place the M6x16 SKB screws through the outer foot and into the lift columns.

**2-5:** Fully tighten the screws with a 4mm hex tool.

**2-6:** Thread the two leveling feet all the way into the outer foot. If they are hard to turn, a 16mm wrench is provided (QM40230).

 **NOTE:** If you have the optional casters, screw them all the way into the feet instead of the leveling feet.



# Step 3: Right Table End Assembly

## Parts Needed

- 1 - Right Batting Bar Bracket, QF12500-410 (Box 4)
- 2 - Screws, QM10721, M6x20 SKC ZN (Box 1)
- 2 - Washers, QM10642, M6 (Box 1)
- 1 - Outer Foot, QF12500-402 (Box 7)
- 8 - Screw for bottom of lift column, QM10955, M6x16 SKB ZN (Box 1)
- 2 - Leveling Foot, QF09318-108 (Box 1)

## Tools Required

- 4mm Hex Tool, QF09318-112 or QM40407
- 5mm Hex Toll, QF09318-113
- 16mm Wrench, QM40230

**3-1:** Slide the right batting bar bracket about half way down onto the lift column as shown. Notice the direction it faces.

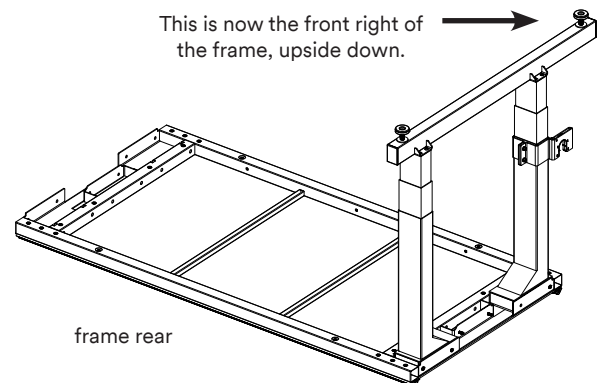
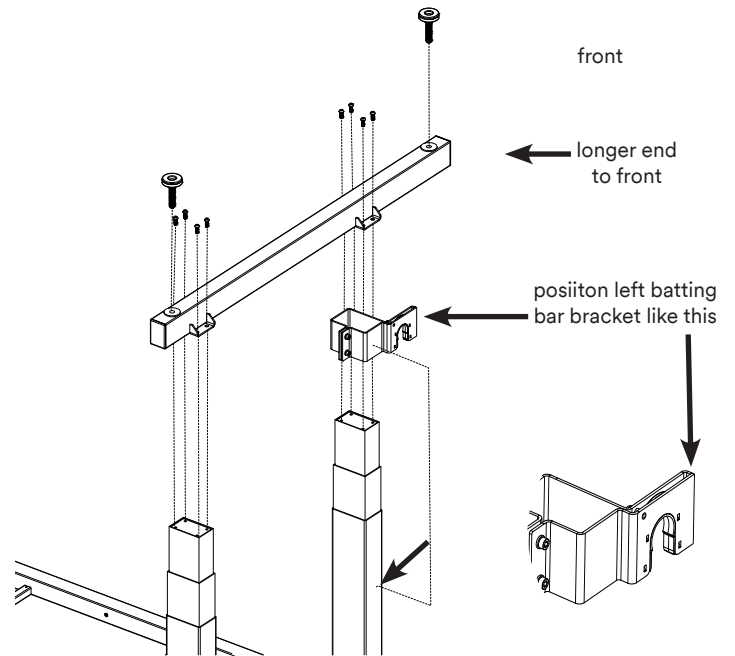
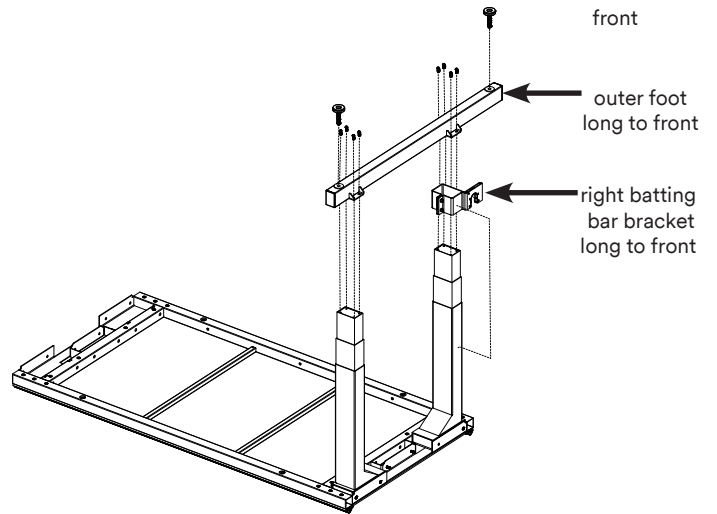
**3-2:** Insert two M6x20 SKC screws with washers into the bracket. Snug the screws only for now with a 5mm hex tool. You will want to adjust this further when the batting is loaded onto the batting pole before fully tightening.

**3-3:** Place an outer foot on top of the two lift columns with the long part as shown to the front.

**3-4:** Place the M6x16 SKB screws through the outer foot and into the lift columns.

**3-5:** Fully tighten the screws with a 4mm hex tool.

**3-6:** Thread the two leveling feet all the way into the outer foot. If they are hard to turn, a 16mm wrench is provided (QM40230).



## Step 4: Left Table End 10-Foot Middle Leg Assembly

For 12-Foot Frame skip to Step 6, For 15-Foot Frame skip to Step 10

### Parts Needed

- 1 - Lift Column, QF12500-801 w/4 Screws, QM13300, M6x10 SKB (Box 13)
- 1 - Foot-Middle w/2 end caps, QF12500-602 (Box 5)
- 4 - Screw for bottom of lift column, QM10955, M6x16 SKB ZN (Box 1)
- 2 - Table Frame Couplers, QF12500-303 (Box 5)
- 4 - Table Coupler Screws QF09341-05, M8X16 SKS (Box 5)
- 2 - Leveling Foot, QF09318-108 (Box 1)

### Tools Required

4mm Hex Tool, QM40407

**4-1:** Remove the four screws M6x10 SKB from the lift column.

**4-2:** Position the lift column with the angled part towards the rear as shown. The batting bar bracket is facing the other direction, towards the front.

**4-3:** Place two screws removed in step 4-1 through the metal bracket and into the lift column at the end of the table frame. The other two screws will be used in the bracket on the next table end.

**4-4:** Slide two table frame couplers QF12500-303 into the end of the table frame until they hit their stops.

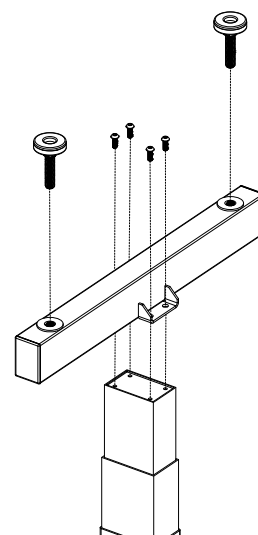
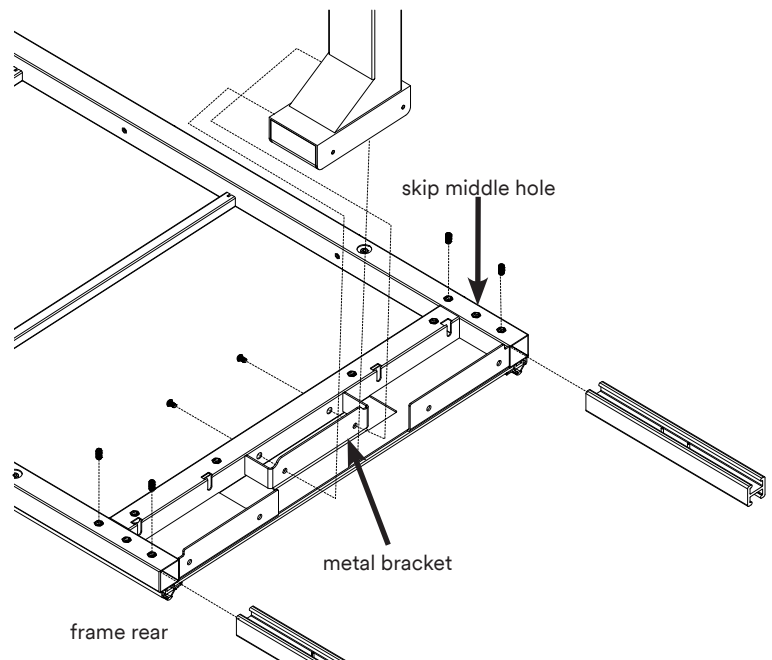
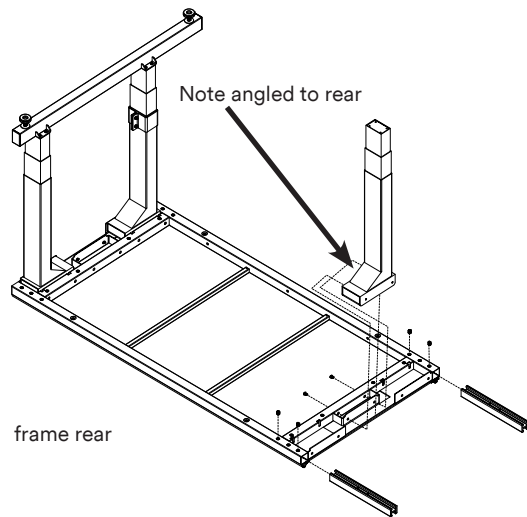
**4-5:** Insert a M8X16 SKS screw into the end and third hole as shown (skip the middle hole it is an accessory hole).

**4-6:** Tighten the M8x16 SKS screws in each table frame coupler evenly and fully using a 4mm hex tool.

**4-7:** Connect the middle foot with four M6x16 SKB screws.

**4-8:** Fully tighten the M6x16 foot screws using a 4mm hex tool.

**4-9:** Thread the two leveling feet all the way into the middle foot. If they are hard to turn, a 16mm wrench is provided.



## Step 5: Adding Right Table End / 10-Foot Frame


At this stage of the assembly process we can add the other table end assembly to make a 10-Foot Frame, with one center leg. If we are making a 12-Foot frame there is a short 2-Foot table extension added to the middle with two center legs, Step 6. A 15-Foot frame has a 5-Foot table frame added to the middle with two center legs, Step 10.

### Parts Needed

- 2 - Lift Column Screws, QM13300. M6x10 SKB removed in **Step 4-1**.
- 4 - Table Coupler Screws QF09341-05, M8X16 SKS (Box 5)

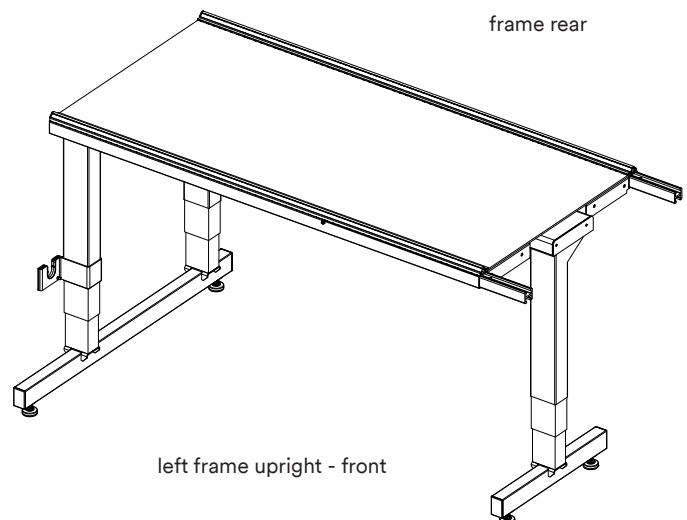
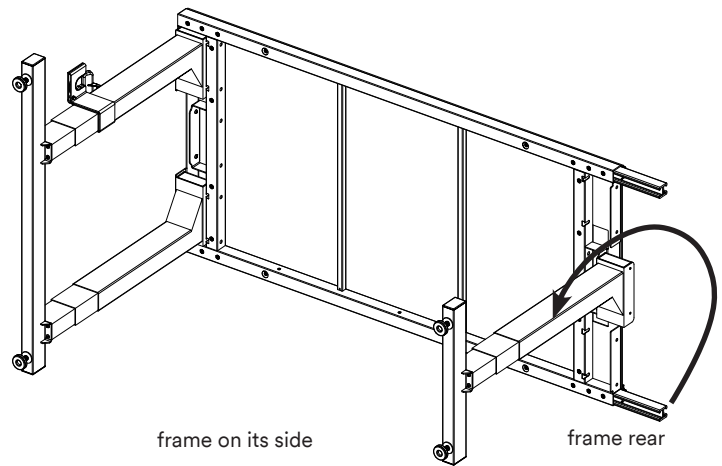
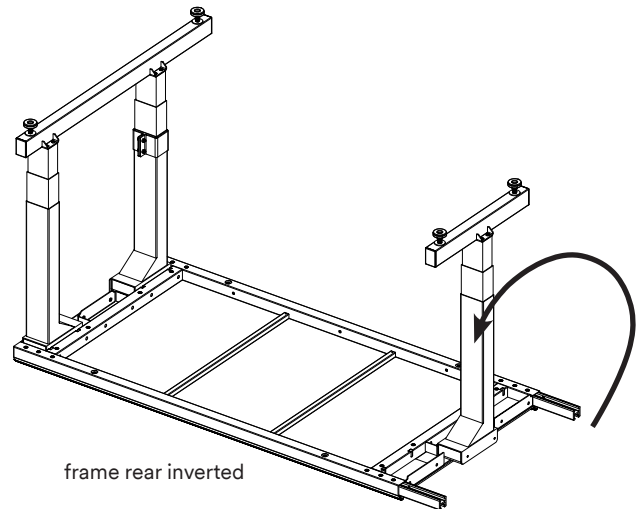
### Tools Required

- 4mm Hex Tool, QM40407
- 1-2 Helpers to tip the frame over.

 **IMPORTANT:** It is critical that the frame be turned as shown to prevent the lift columns from damaging the table frame when it is turned over.

**5-1:** With the assistance of one or two helpers, support the single middle lift column and carefully roll the table end onto its side.

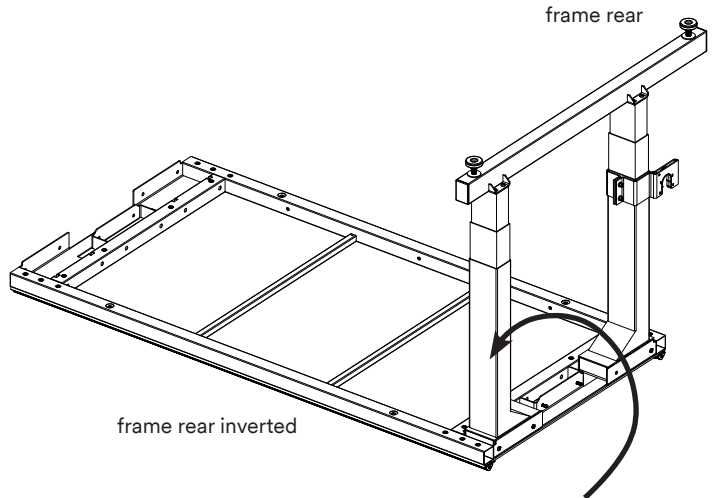
**5-2:** With the assistance of one or two helpers, support the single middle lift column and carefully roll the table end upright.



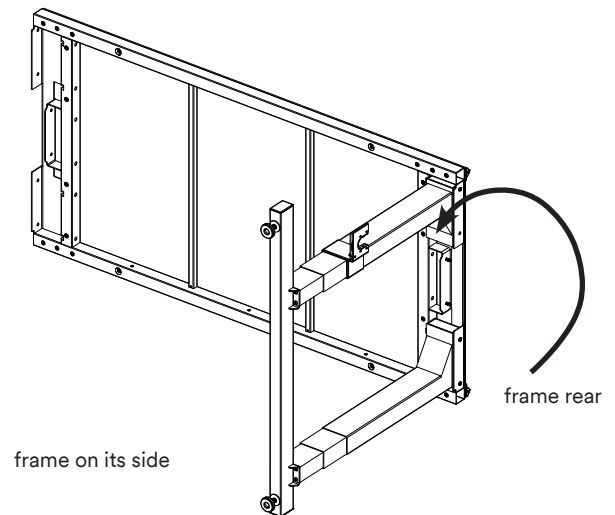
## Step 5: Adding Right Table End / 10-Foot Frame - Continued



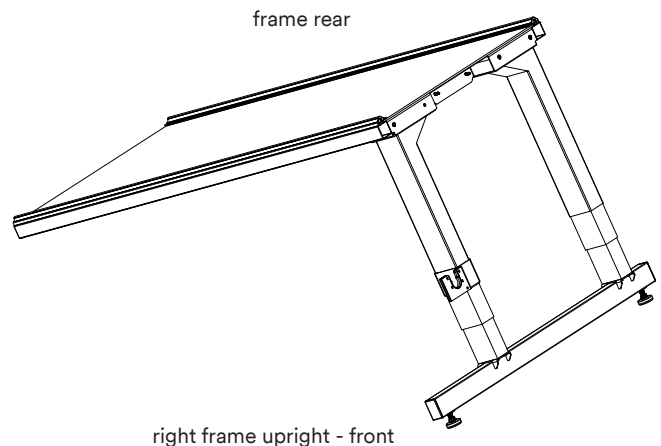
**IMPORTANT:** It is critical that the frame be turned as shown to prevent the lift columns from damaging the table frame when it is turned over.



**5-3:** With the assistance of a helper, carefully roll the other table end onto its side.



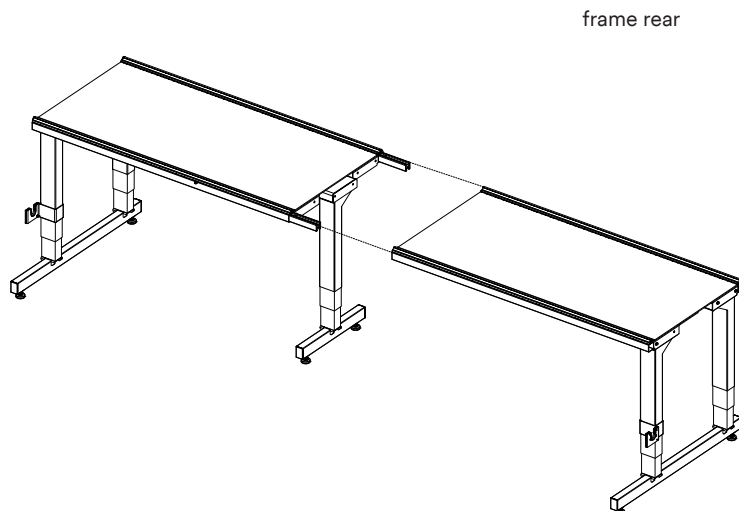
**5-4:** With the assistance of a helper, flip the table end upright.



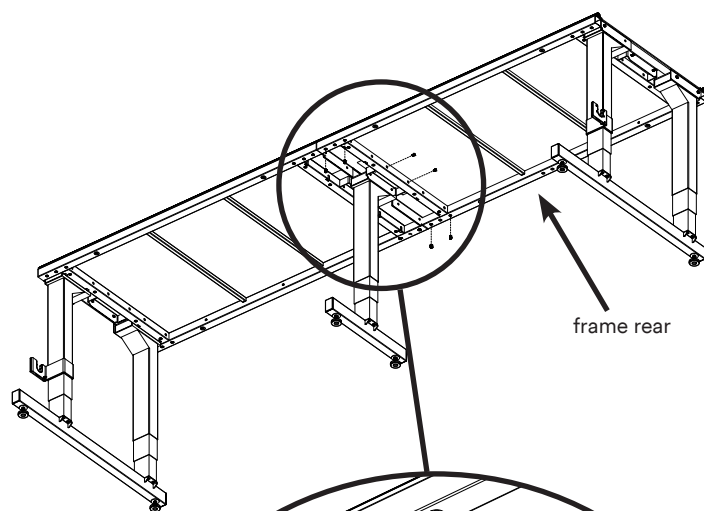
**Note:** Rest the center of the frame on the floor as shown until you are ready to put the two ends together.

## Step 5: Adding Right Table End / 10-Foot Frame

**5-5:** Have one person hold the left table end in position, while another holds the right table center up, and the third person helps slide the two table ends together onto the table frame couplers.

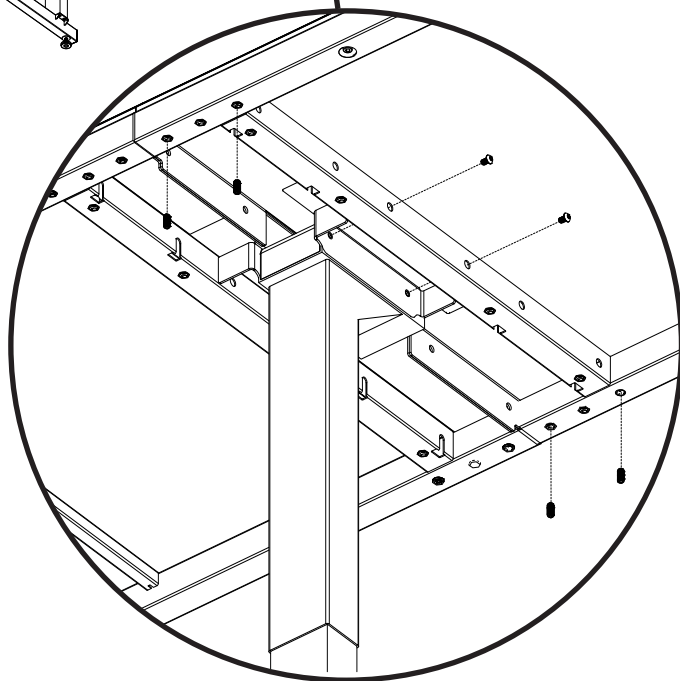


**5-6:** Install the two M6X10 SKB screws removed earlier from the lift column back into the column.



**5-7:** Insert four M8x16 SKS screws in the end of the right table end to fasten the table frame couplers as shown, skipping the second hole. The screws go in the first and third holes like they did in the other table end frame.

**5-8:** Tighten the M8x16 SKS screws fully using the provided 4mm hex tool.



## Step 6: Assembly of Center 2-Foot Table Section / 12-Foot Frame

The 12-Foot Frame utilizes a 2-Foot Table Section in the center with two lift columns.

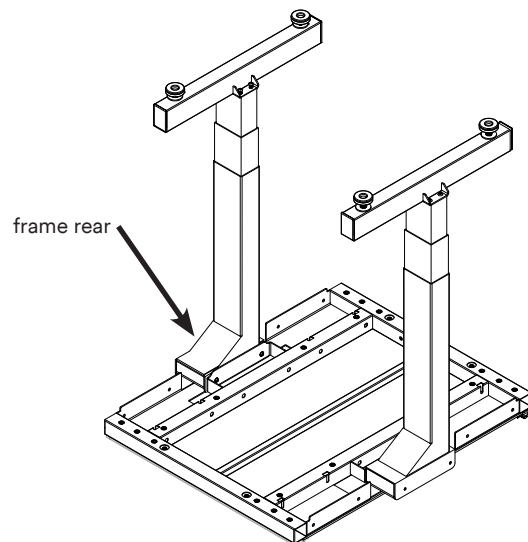
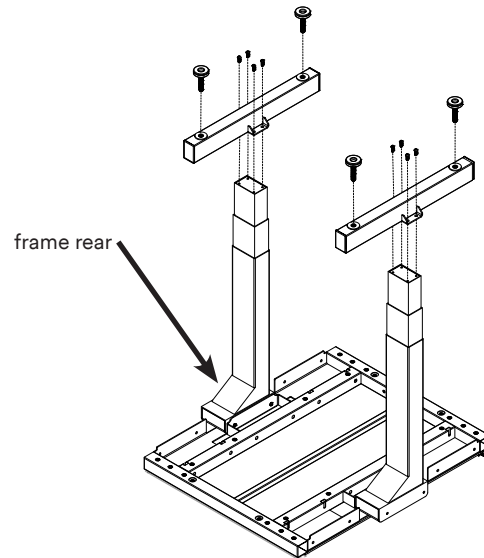
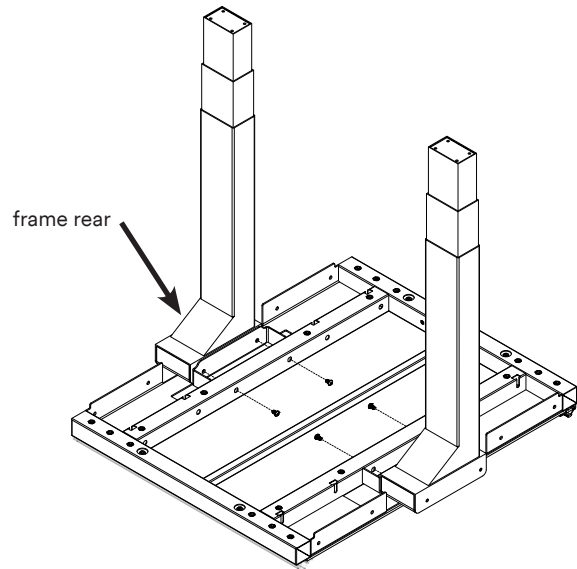
### Parts Needed

- 1 - 2-Foot Table Assy w/Track Support w/Screws, QF12500-310 (Box 6)
- 2 - Lift Column w/4 top screws, QF12500-801 w/4 QM13300, M6x10 SKB (Box 14)
- 2 - Foot-Middle, QF12500-602 (Box 5)
- 4 - Leveling Foot, QF09318-108 (Box 5)
- 8 - Bottom Lift Column Screws, QM10955, M6x16 SKB (Box 1)
- 4 - Table Frame Couplers, QF12500-303 (Box 5)
- 8 - Table Coupler Screws, QF09341-05, M8x16 SKS (Box 5)

### Tools Required

- 4mm Hex Tool, QM40407
- 1 or 2 Helpers


- 6-1:** Place the 2-Foot table assembly, black surface and track supports down, on a surface that will not be damaged by the frame and that will not damage the frame.
- 6-2:** Remove the four M6x10 SKB screws from the lift column and save them.
- 6-3:** Place a lift column into the table top as shown and insert two of the removed M6x10 SKB screws through the bracket and into the column.
- 6-4:** Repeat the process for the other lift column on the other side of the table section. Ensure both lift columns are facing the same direction.
- 6-5:** Fully tighten the screws on both lift columns with a 4mm hex tool.
- 6-6:** Place a middle foot onto one of the lift columns and insert four M6x16 SKB screws through the foot into the column.
- 6-7:** Repeat the process for the other middle foot
- 6-8:** Fully tighten the screws on both middle feet with a 4mm hex tool.
- 6-9:** Screw the four leveling feet all the way into the middle feet.

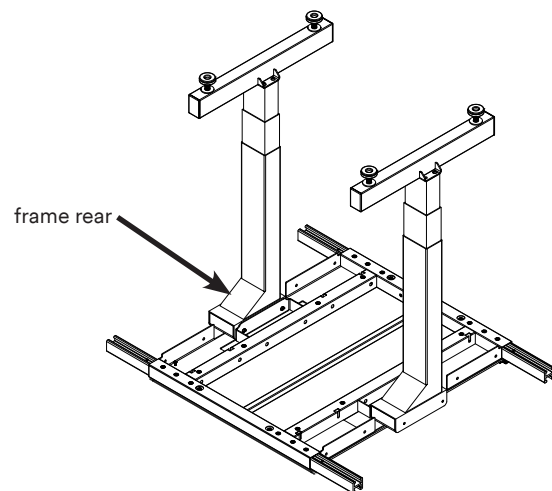
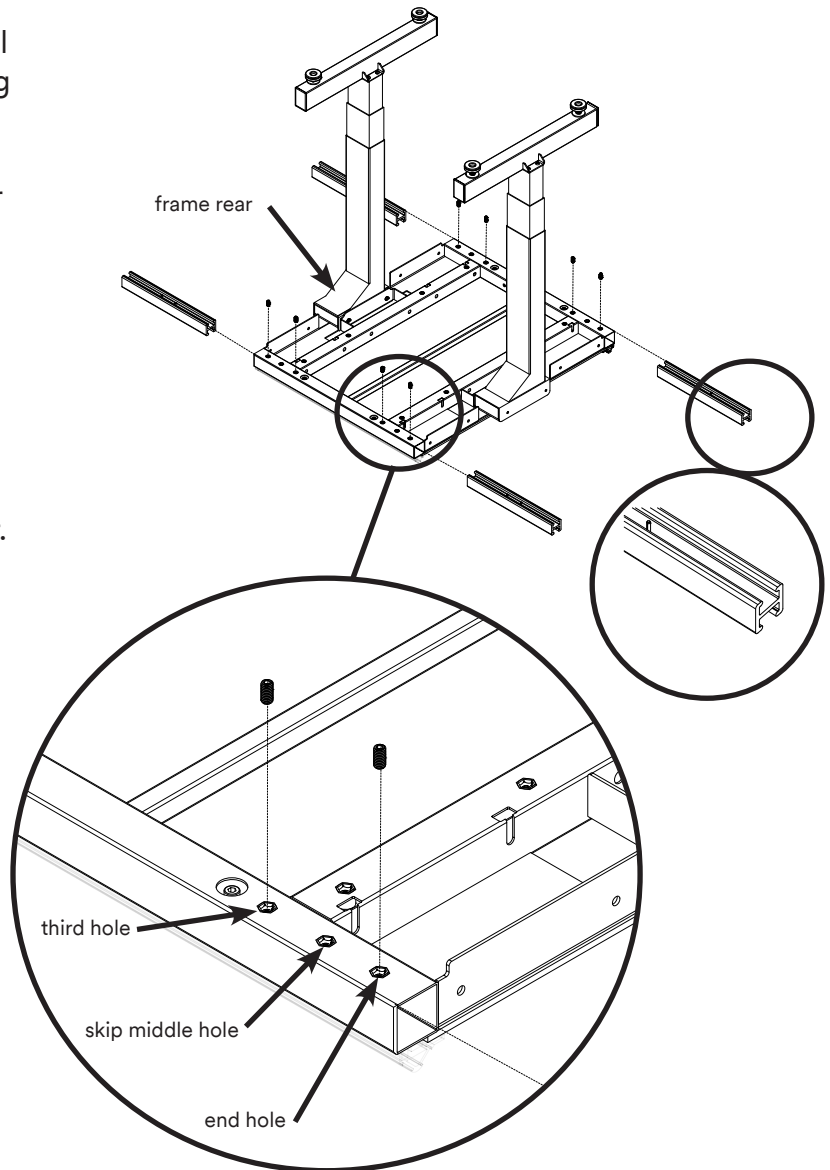


## Step 6: Assembly of Center 2-Foot Table Section / 12-Foot Frame

**6-10:** Place a table frame coupler into each corner of the 2-Foot table section until they hit the stops. They will be sticking out half way.

**6-11:** Insert a QF09341-05, M8x16 SKS coupler screw in the table end hole and third hole for each table frame coupler, skip the middle hole.

 **NOTE:** Only snug the coupler screws for now. The tables may need to shift a little to be aligned when they are all put together.



## Step 7: Turn 2-Foot Center Section Upright/12-Foot Frame

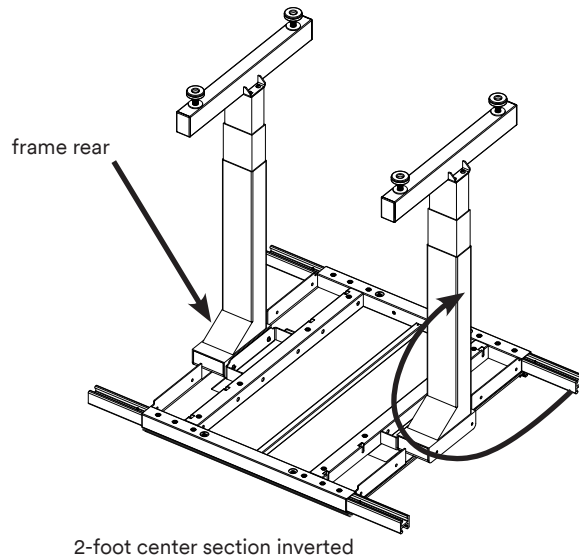
### Parts Needed

1 - Assembly from Step 6-11

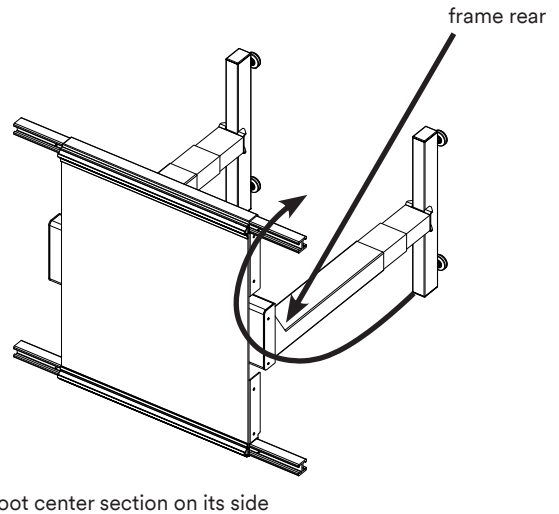
### Tools Required


Helper

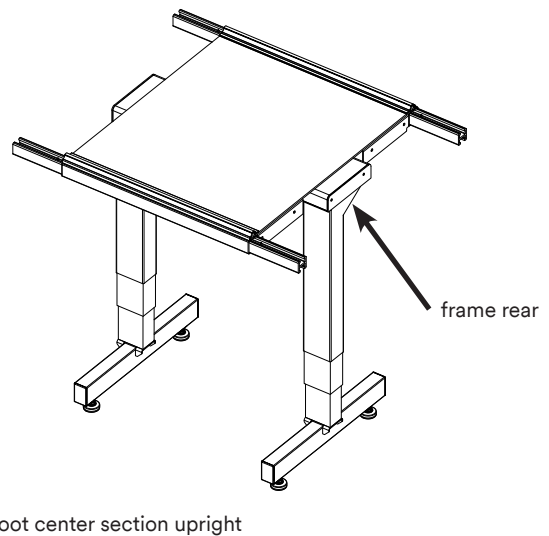
**7-1:** With the assistance of a helper, carefully roll the table end onto its side as shown.



**7-2:** With the assistance of a helper, flip the table end upright onto its two feet.



 Caution the table will be top heavy so take care not to bump it or knock it over. It should be assembled immediately onto a table end assembly.



## Step 8: Left Table End to 2-Foot Center Section / 12-Foot Frame

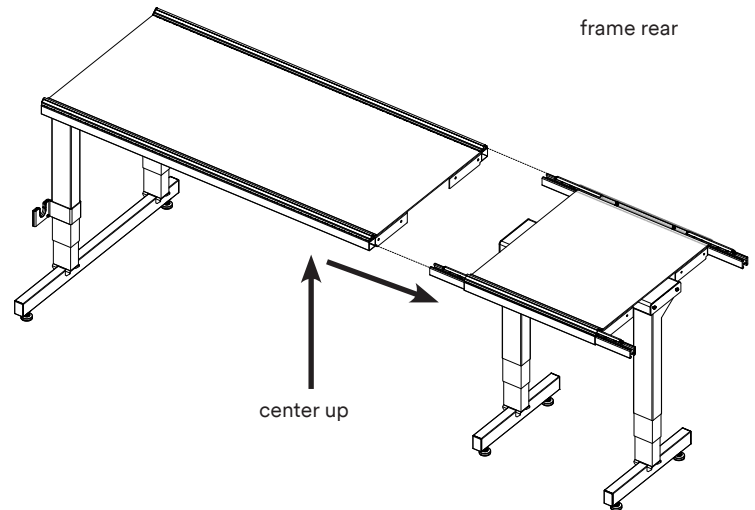
### Parts Needed

- 1 - 2-Foot Center Table Section from Step 7
- 1 - Left Table End Step 2
- 2 - Top Screws removed earlier from Lifting Column, QM13300, M6x10 SKB
- 4 - Table Coupler Screws, QF09341-05, M8x16 SKS (Box 5)

### Tools Required

- 4mm Hex Tool
- 1 or 2 Helpers

- 8-1:** If you have not already done so, roll the left table end upright with the assistance of a helper. (See steps 5-3 and 5-4 for the proper way to do this.)
- 8-2:** With the assistance of a helper, lift up the center of the left table end, align it with the 2-foot center table couplers and slide them together.

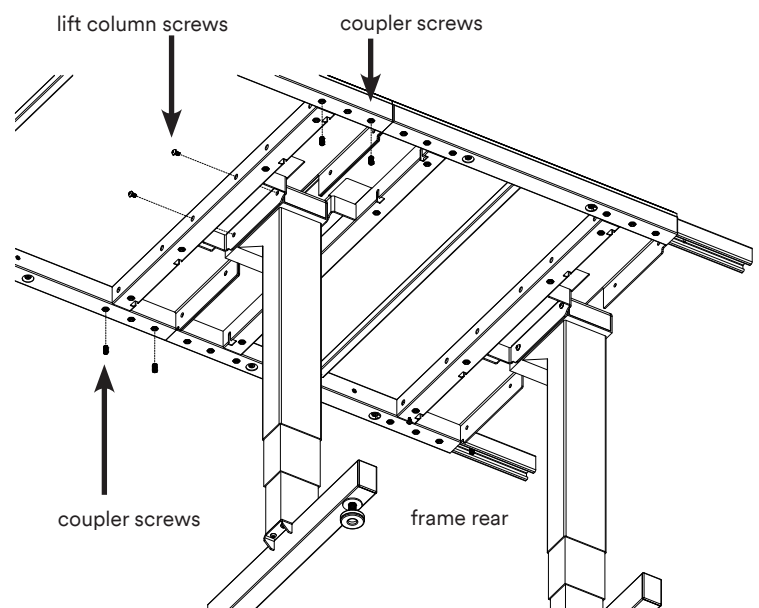


- 8-3:** Insert the two M6x10 SKB top screws removed earlier from the lift column through the table bracket and into the column.

- 8-4:** Insert the M8x16 SKS table frame coupler screws into the table frame as shown. They go into the end hole on the table frame and the third hole. The second hole does not have a coupler screw.

- 8-5:** Fully tighten the two M6x10 SKB screws into the lift column.

- 8-6:** Only snug the coupler screws for now. The tables may need to shift a little to be aligned when they are all put together.



## Step 9: Right Table End to Table Assembly / 12-Foot Frame

### Parts Needed

- 1 - Table Assembly from Step 8.
- 1 - Right Table End Step 3
- 2 - Top Screws removed earlier from Lifting Column, QM13300, M6x10 SKB
- 4 - Table Coupler Screws, QF09341-05, M8x16 SKS (Box 5)

### Tools Required

- 4mm Hex Tool
- 1 or 2 Helpers

**9-1:** If you have not already done so, roll the right table end upright with the assistance of a helper. (See steps 5-3 to 5-5 for the proper way to do this.)

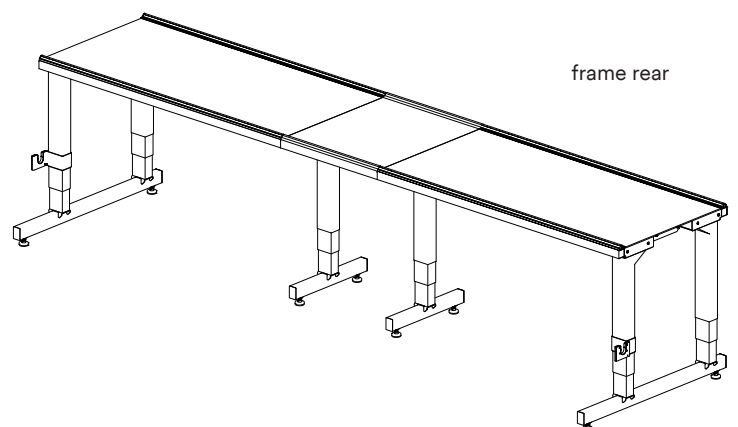
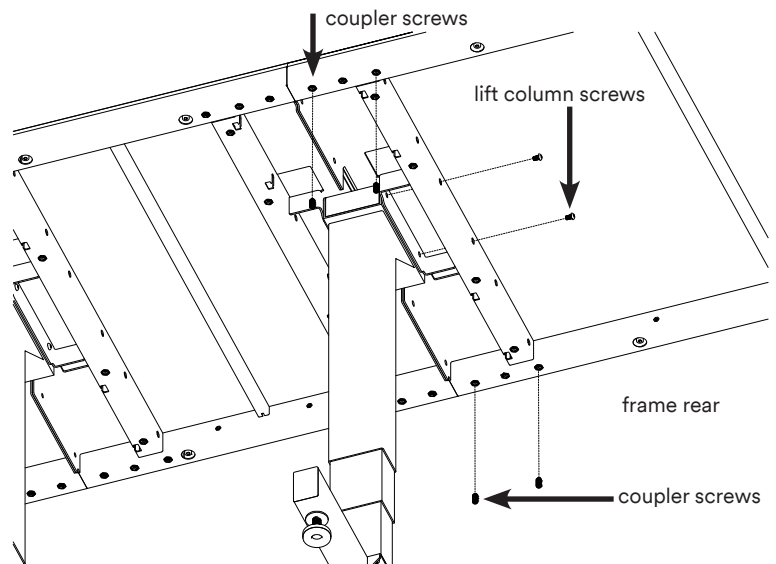
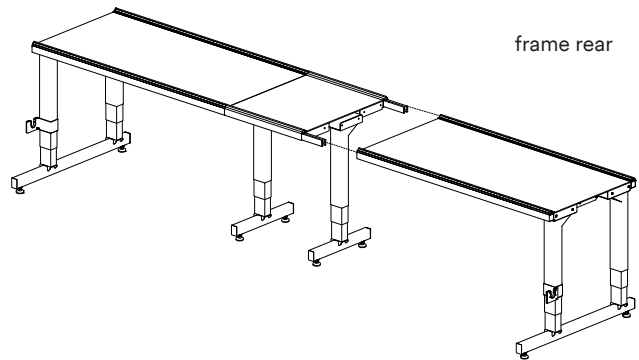
**9-2:** With the assistance of a helper, lift up the center of the right table end, align it with the 2-foot center table couplers and slide them together.

**9-3:** Insert the two M6x10 SKB top screws removed earlier from the lift column through the table bracket and into the column.

**9-4:** Insert the M8x16 SKS table frame coupler screws into the table frame as shown. They go into the end hole on the table frame and the third hole. The second hole does not have a coupler screw.

**9-5:** Fully tighten the two screws into the lift column.

**9-6:** Align the tables frames and if necessary loosen the table frame coupler screws. Once the tops are aligned fully tighten the table frame coupler screws.



**Skip to Step 13**

# Step 10: Assembly of Center 5-Foot Table Section/15-Foot Frame

## Parts Needed

- 1 - 5-Foot Table Assembly w/Track Supports w/ Screws (Box 2)
- 2 - Lift Column w/4 top screws, QF12500-801 w/4 QM13300, M6x10 SKB (Box 14)
- 2 - Foot-Middle, QF12500-602 (Box 5)
- 4 - Leveling Foot, QF09318-108 (Box 5)
- 8 - Bottom Lift Column Screws, QM10955, M6x16 SKB (Box 1)
- 4 - Table Frame Couplers, QF12500-303 (Box 5)
- 8 - Table Coupler Screws, QF09341-05, M8x16 SKS (Box 5)

## Tools Required

- 4mm Hex Tool, QM40407
- 1 or 2 Helpers

**10-1:** Place the 5-Foot table assembly, black surface and track supports down on a surface that will not be damaged by the frame and that will not damage the frame.

**10-2:** Remove the four M6x10 SKB screws from the lift column and save them.

**10-3:** Place a lift column into the table top as shown and insert two of the removed M6x10 SKB screws through the bracket and into the column.

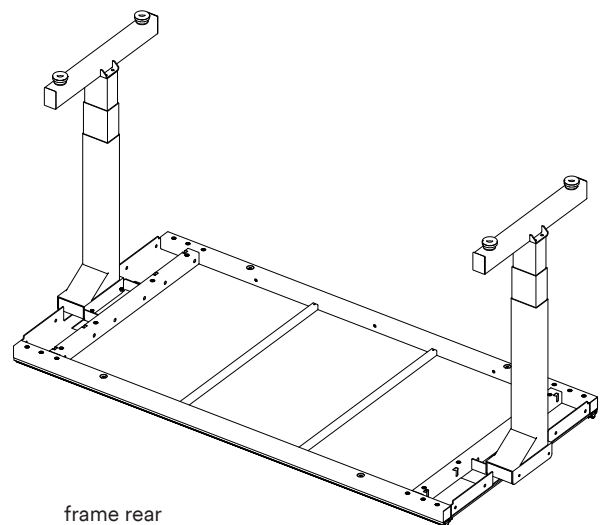
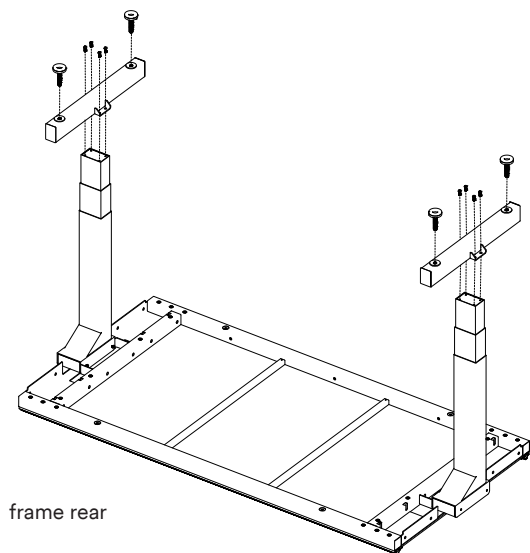
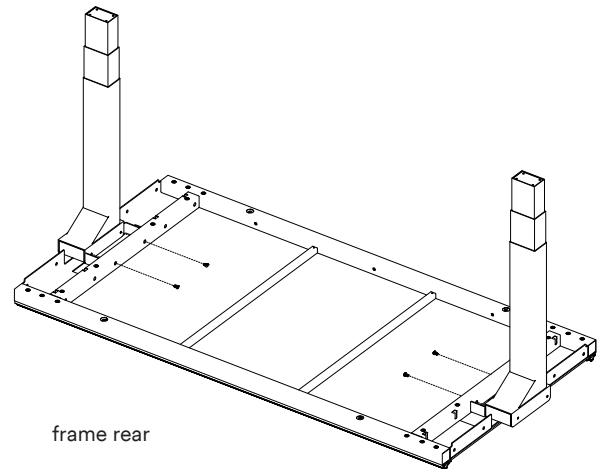
**10-4:** Repeat the process for the other lift column on the other side of the table section.

**10-5:** Fully tighten the screws on both lift columns with the provided 4mm hex tool.

**10-6:** Place a middle foot onto one of the lift columns and insert four M6x16 SKB screws through the foot into the column.

**10-7:** Repeat the process for the other middle foot.

**10-8:** Fully tighten the screws on both middle feet with a 4mm hex tool.




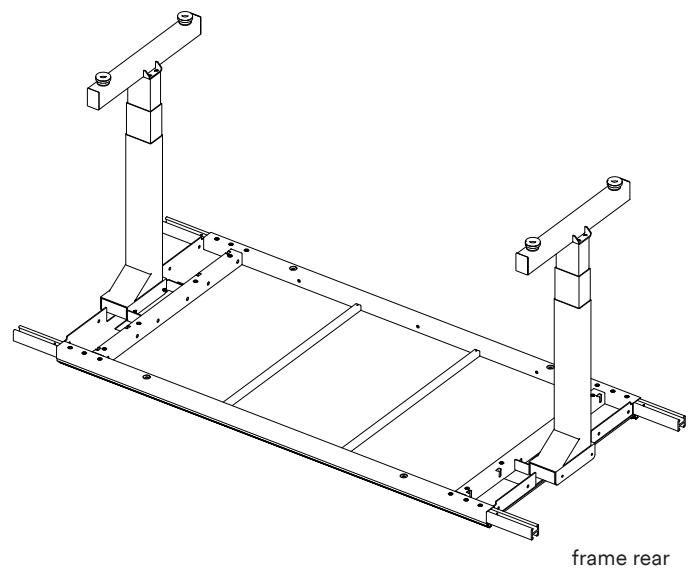
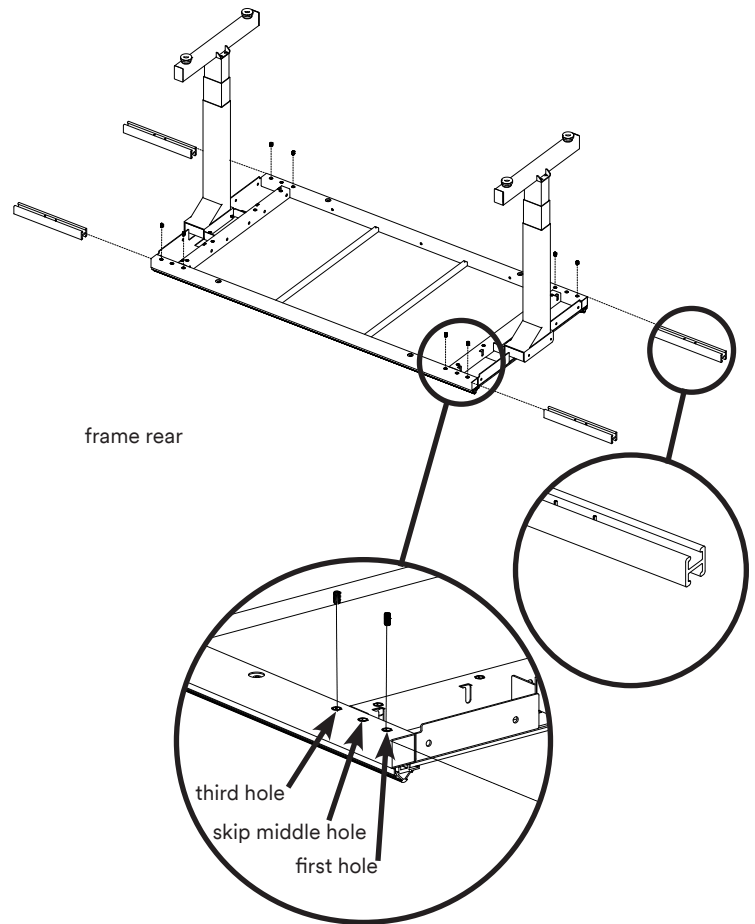
## Step 10: Assembly of Center 5-Foot Table Section/15-Foot Frame

**10-9:** Screw the four leveling feet all the way into the middle feet.

**10-10:** Place a table frame coupler into each corner of the 5-Foot table section until they hit the stops. They will be sticking out half way.

**10-11:** Insert a coupler screw in the table end hole and third hole for each table frame coupler, skip the middle hole.

 **NOTE:** Only snug the coupler screws for now. The tables may need to shift a little to be aligned when they are all put together.



# Step 11: Turn 5-Foot Center Section Upright / 15-Foot Frame

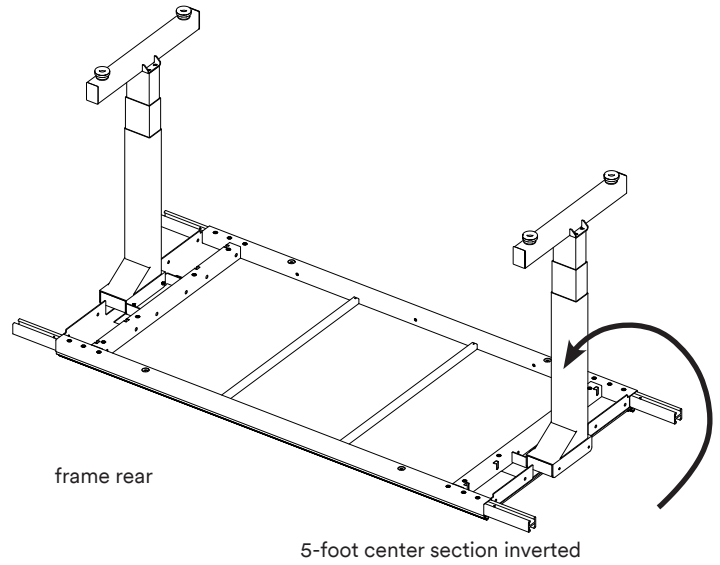
## Parts Needed

1 - 5-Foot Center Frame Assembly from Step 10-12

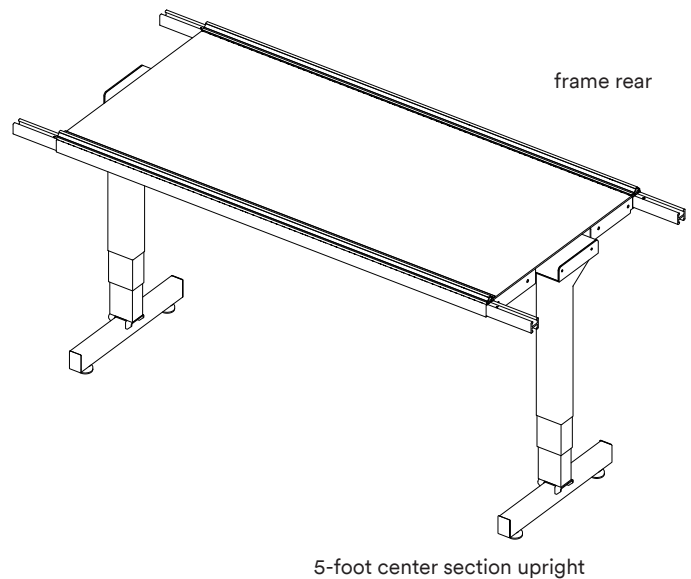
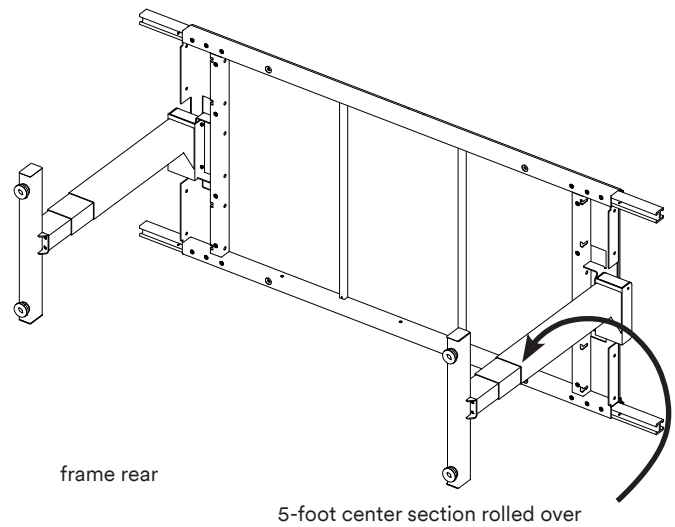
## Tools Required

1 Helper

**11-1:** With the assistance of a helper, carefully roll the table center over onto its side as shown.



**11-2:** With the assistance of a helper, flip the table center upright onto its feet.



## Step 12: Adding Left, Right Ends to Center Table / 15-Foot Frame

### Parts Needed

- 1 - 5-Foot Center Table Assembly from Step 11-2
- 1 - Left Table End Assembly from Step 2-7 (turned upright, see 5-3 to 5-5)
- 1 - Right Table End Assembly from Step 3-7 (turned upright, see 5-3 to 5-5)
- 8- Table Coupler Screws, QF09341-05, M8x16 SKS (Box 5)

### Tools Required

- 4mm Hex Tool
- 1-2 Helpers

**12-1:** With the assistance of a helper, lift the center of the left table end and slide it onto the center table frame couplers.

**12-2:** Insert the other two screws removed earlier from the lift column into the column and full tighten them with a 4mm hex tool.

**12-3:** Insert a coupler screw in the table end hole, skip the middle hole, and the third hole for the two table frame couplers.

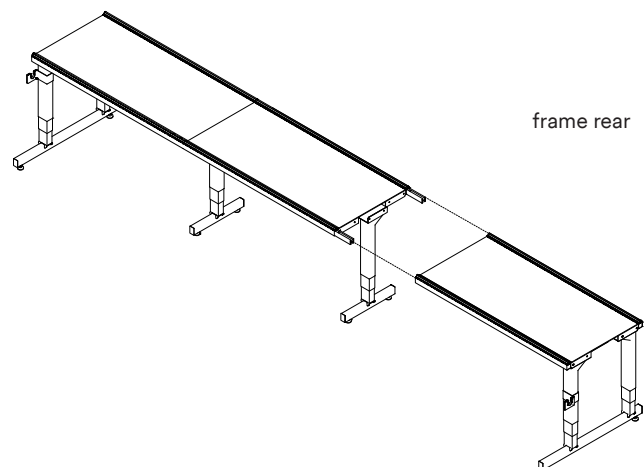
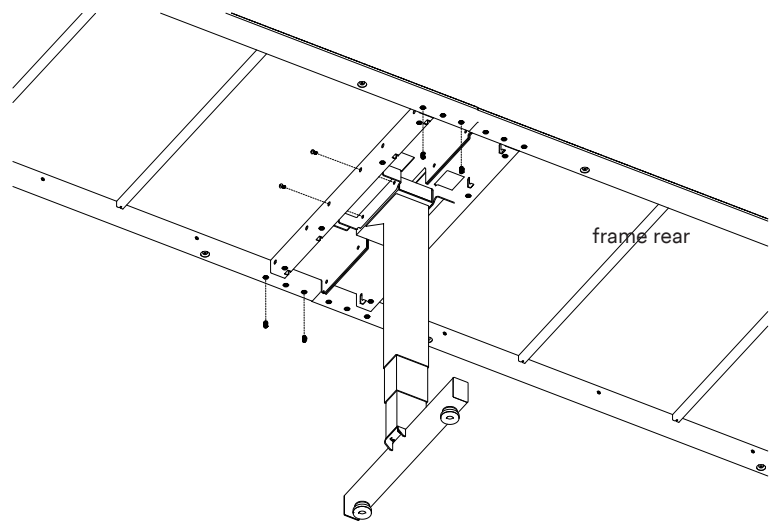
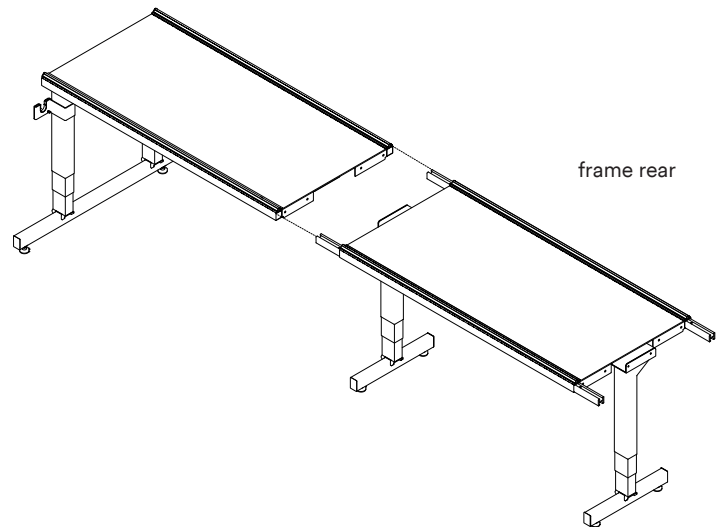
**12-4:** Only snug the coupler screws for now with a 4mm hex tool. The tables may need to shift a little to be aligned when they are all put together.

**12-5:** Lift the center of the right table end and slide it onto the center table frame couplers.

**12-6:** Install and fully tighten the two lift column screws and insert and snug with a 4mm hex tool the coupler screws like you did on the left side.

**12-7:** Check table top alignment and remove gaps. Fully tighten all the frame coupler screws.

**12-8:** If the left, right, and center joints appear misaligned, loosen the coupler screws, align, and then fully tighten all coupler screws with a 4mm hex tool.



# Step 13: Precision-Glide Track Support Couplers

## Parts Needed

- 1 - Table assembly w/track supports w/screws
- 2-4 - Track Support Coupler QF09318-03(Box 5)
- 12-24 - Track Support Coupler Screws, QF09318-304 M5X8 SKB (Box 5)

## Tools Required

- 5mm Hex Tool
- 3mm Hex Tool

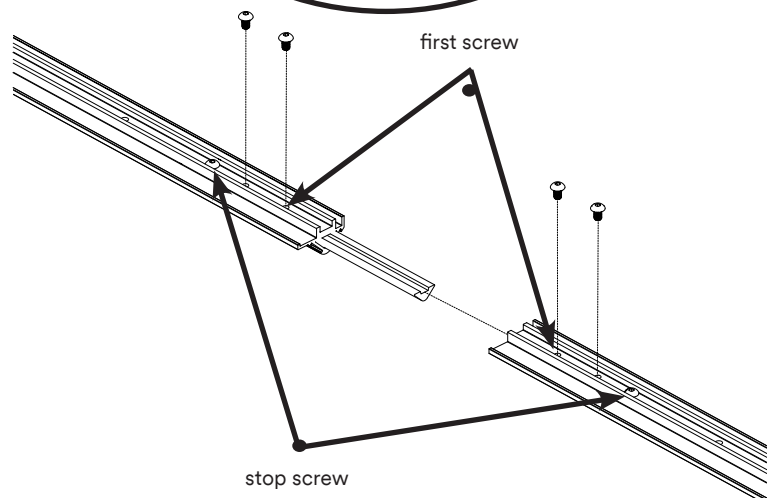
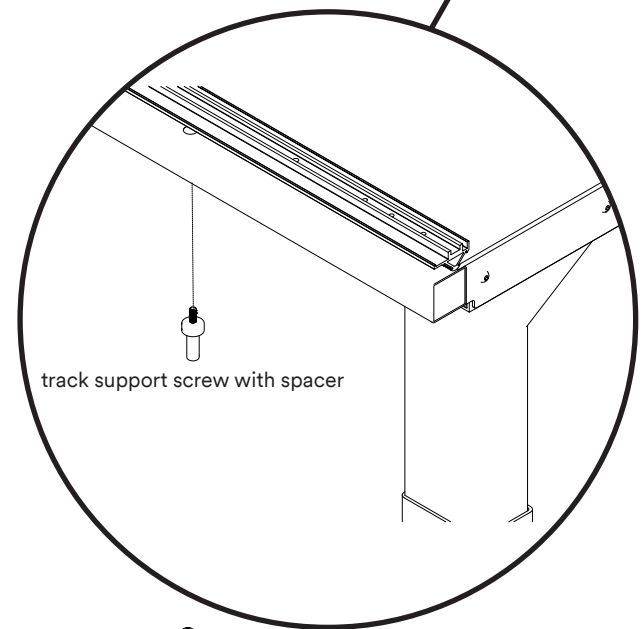
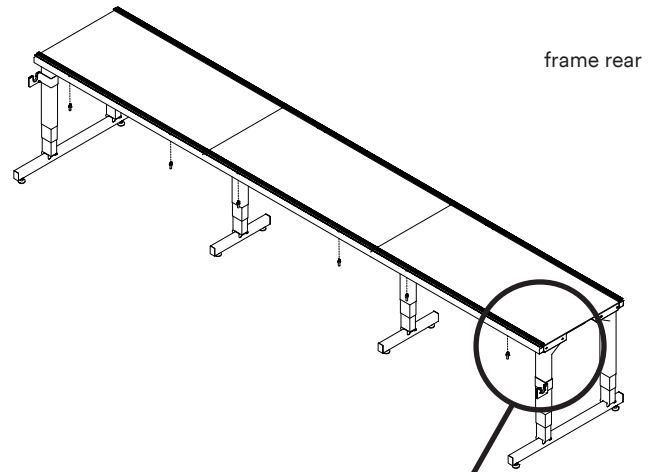
**13-1:** Remove the two QF09341-03 track support screws with spacers from each track support section with a 5mm hex tool and lay the supports on the table top upside down with the wider lip facing toward the outside of the table.

**13-2:** Check inside the ends of the track supports for burrs or debris and remove any foreign matter from the inside.

**13-3:** Place one M5 X 8mm SKB screw into the third hole from the end of the track support at the junction end to serve as a stop screw. Repeat this on each track support at the junction end.

**13-4:** Fully tighten the screw with a 3mm hex tool. This will help align the coupler properly into the two track support sections when joined together.

**13-5:** Insert a track support coupler into one prepared end of one track support section up to the stop screw. Thread an M5 X 8 mm SKB screw into the first hole and lightly tighten. Insert the other end of the coupler into second prepared track support section. Hold the two adjoining track support sections tightly together and place another screw into the first hole of the second track support and lightly tighten.



## Step 13: Precision-Glide Track Support Couplers - Continued



**NOTE:** You may need to gently rock the track support to seat the coupler and align the track supports.

**13-6:** Insert a second screw into the track supports, align and tighten.

**13-7:** Once the track supports are aligned properly, fully tighten all the track support coupler screws with a 5mm hex tool.

**13-8:** Repeat the process for the track support assembly for the other side.

**Note:** 12-Foot and 15-Foot frames have a second splicer in the track support. Repeat the steps above.



**NOTE:** If you cannot get the surface where the black tracks slide in to be aligned, a track alignment kit is provided in Box 1. See the Troubleshooting Section for more information.



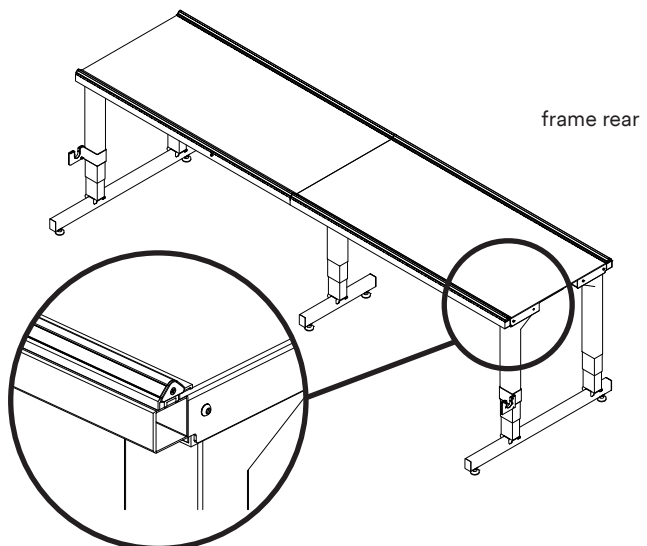
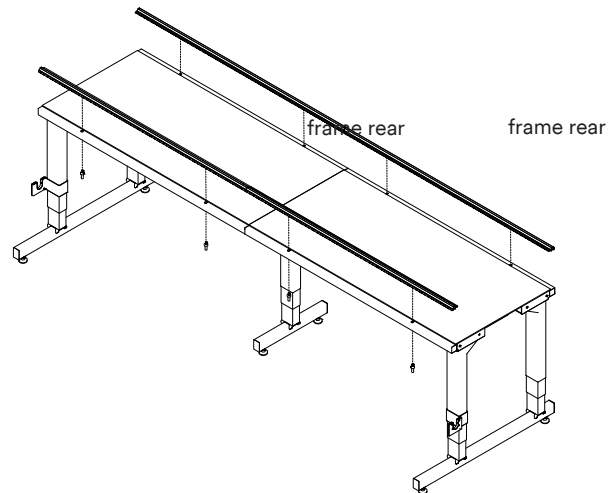
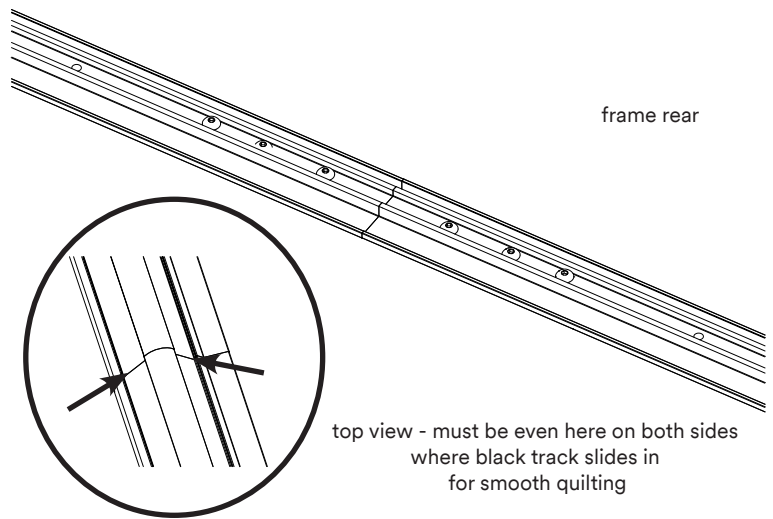
**NOTE:** It is important that the track supports align nicely in order to not feel a bump when going over the track splices while quilting.

**13-9:** Flip the track support assembly right side up with the wide edge over the black plastic table top.

**13-10:** Re-install the QF09341-03 track support screws with spacer into the track supports. The 10-Foot frame has 4 per side and the 12-Foot and 15-Foot frames have 6 per side.

**13-11:** Leave the coupler screws loose for now. The track supports will need to be aligned with the carriage later on.

**13-12:** Repeat Steps 13-9 through and 13-11 for the other track support assembly.



## Step 14: Black Plastic Track

### Parts Needed

- 4 - Black Plastic Tracks
  - 10' - (Box 8)
  - 12' - (Box 9)
  - 15' - (Box 10)
- 4 - Locking Track Retainer Assembly, QF09341-113 (Box 1)

### Tools Required

- #1 Phillips Screwdriver (not provided)

**14-1:** Insert a plastic track completely into one side of the aluminum track support assembly. The plastic track should slide into the track support easily. If the plastic track binds slightly, try backing the track out a little, then pushing it further. If the plastic binds badly, check the track supports for debris, burrs, misalignment, or damage.

**14-2:** In the same manner, insert plastic track in the other side of the track support.

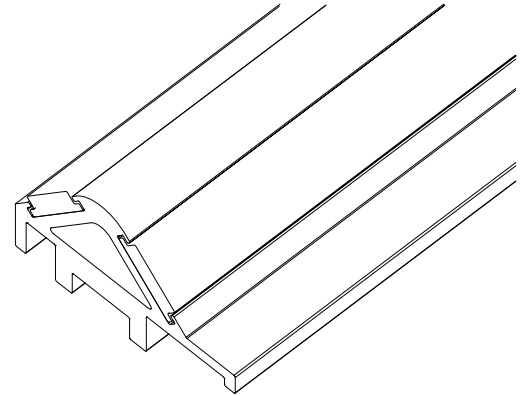
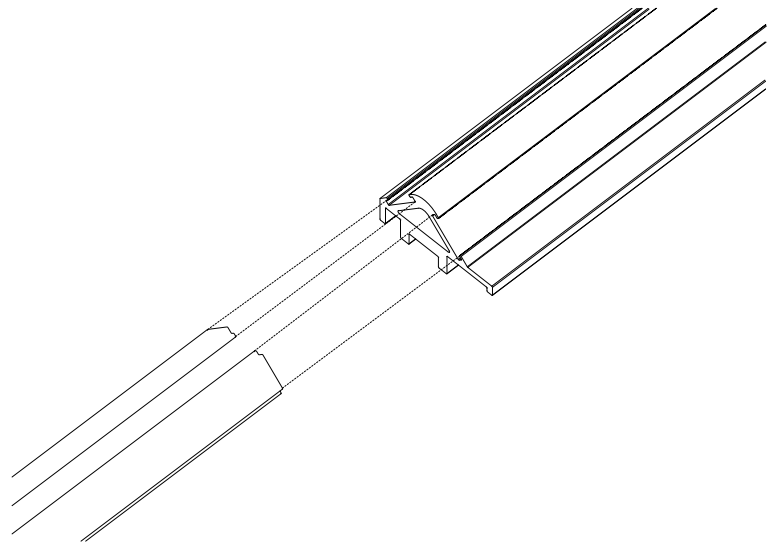
**14-3:** Repeat Steps 14.1 and 14.2 for the track support on the other side of the frame.

**14-4:** With the screw loose in the locking track support assembly, pull the inside wedge out of the outside piece to make it small. Insert the assembly into the end of the track support. Tighten the screw with a #1 Phillips screwdriver.

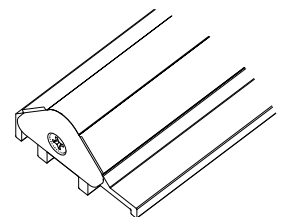
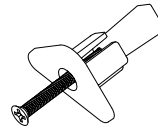
**14-5:** Repeat Step 14-4 for the other three track support ends.



**NOTE:** if necessary, carefully score the track deeply with a sharp knife and snap the track off to the correct length or cut it with some side cutters to remove excess track.



Step 14-4



## Step 15: Aligning the Tracks

### Parts Needed

4 - Completed table top from Step 13.

### Tools Required

5mm Hex Tool

**15-1:** Place the carriage on the tracks at one end of the table. Place the machine on the carriage to provide some weight so the carriage wheels will push the tracks into alignment.

**15-2:** Roll the carriage back and forth along the length of the table, establishing the distance between the two tracks, taking care to check that the wheels are engaging the track on both the front and the back of the carriage.

**15-3:** Check that the carriage and both track support are straight with the white tubing of the table top frame. (Slots in the tables allow this movement.)

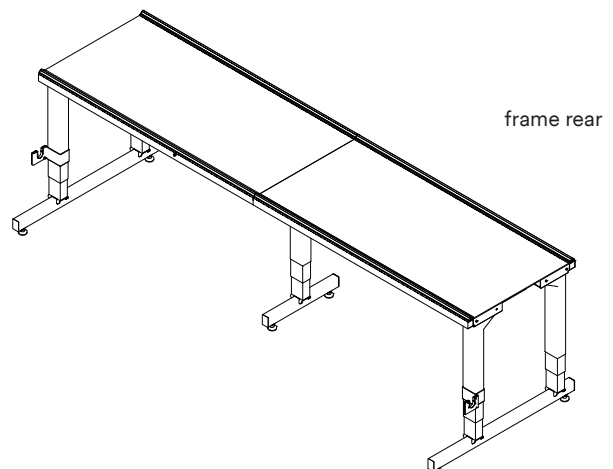
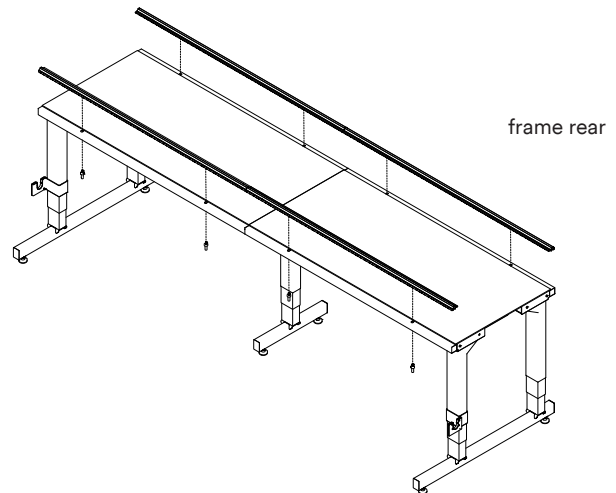
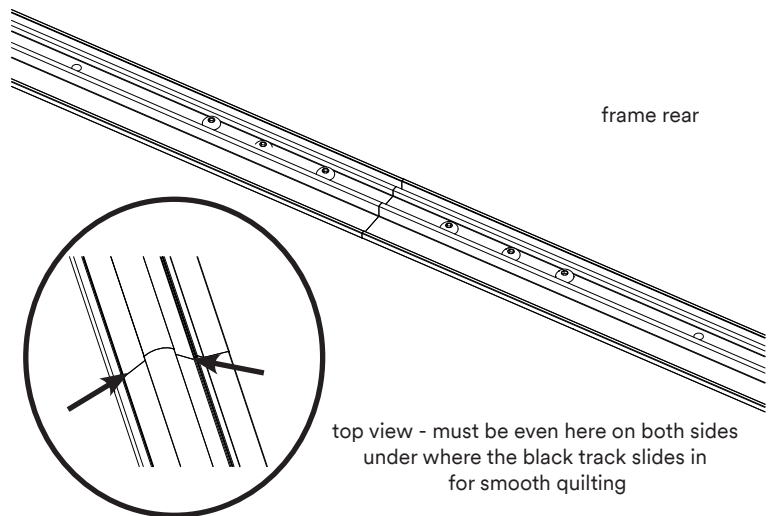
**15-4:** Double-check that the back track support is parallel to the back edge of the table. It will be about 1/8" in from the edge. Fully tighten the screws in the **BACK** track only for now with the 5mm driver hex tool.

**15-5:** To align the front track, with the machine on the carriage, roll it the entire length of the frame, working the tracks into the wheels as you go.

**15-6:** With the machine and carriage over each screw area, fully tighten the front track support screws as you move down the table.



**NOTE:** Check to ensure when the machine is all the way to the front or back that it does not rock on the carriage. **Remove the machine.**



# Step 16: Tube-Table to Side Arm Connector

## Parts Needed

- 1 - Tube-Table to Side Arm Connector Left QF12500-501 (Box 7)
- 1 - Tube-Table to Side Arm Connector Right QF12500-401 (Box 7)
- 2 - Bracket Side Arm Support Front QF12500-404 (Box 4)
- 2 - Bracket Side Arm Support Rear QF12500-403 (Box 4)
- 16 - Screw, QM10959, M8x20 Flanged SKB (Box 1)
- 4 - Screw, QM10955, M6x16 SKB (Box 5)

## Tools Required

- 4mm L Hex Tool
- 5mm Hex Tool

**16-1:** Install a bracketside arm support rear side arm support bracket with two QM10959, M8x20 Flanged SKB screws. The bracket will have an extra hole for the tube-table to side arm connector at the left. Only snug screws for now with 5mm hex tool until all screws are started.

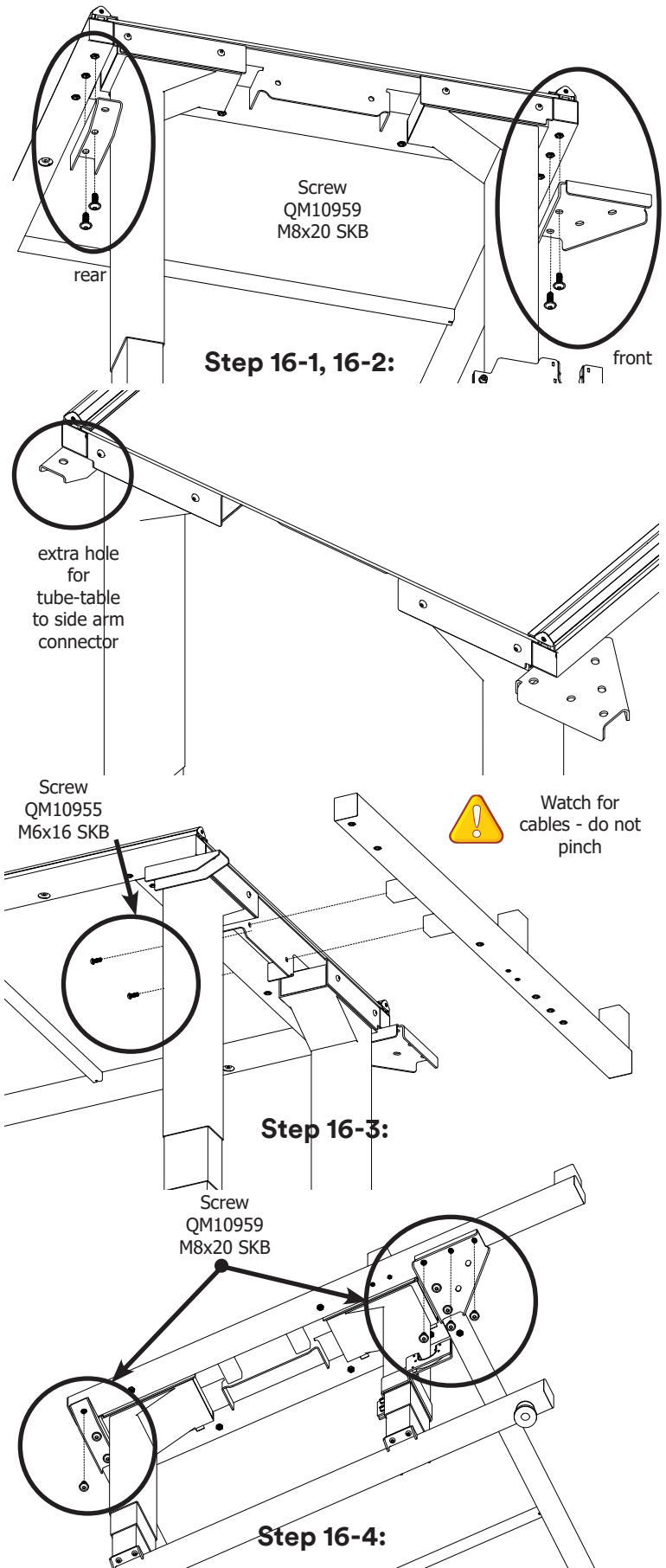
**16-2:** Install the bracket side arm support front with two QM10959, M8x20 flanged SKB screws. Snug screws only for now with 5mm hex tool.

**16-3:** Insert two QM10955, M6x16 screws through the table end center bracket into the table to side arm connector tube. Snug screws only for now with a 4mm L hex tool.

**16-4:** Insert one QM10959 M8x20 screw through the rear bracket and three through the front bracket up into the left tube table to side arm connector tube.

**16-5:** Once all screws are in place, fully tighten all M8x20 screws with the 5mm hex tool and the two M6X16 screws with a 4mm hex tool.

**16-6:** Repeat Steps 15-1 through 15-4 for the right end of the frame.



## Step 17: Pole Side Arm Assemblies to Table Side Arm Connector

### Parts Needed

- 1 - Table Frame Assembly from Step 16
- 1 - Left Rear Pole Side Arm Assy, QF12500-210 (Box 4)
- 1 - Right Rear Pole Side Arm Assy, QF12500-110 (Box 4)
- 4 - Screw, QM10959, M8x20 Flanged SKB (Box 1)

### Tools Required

5mm Hex Tool



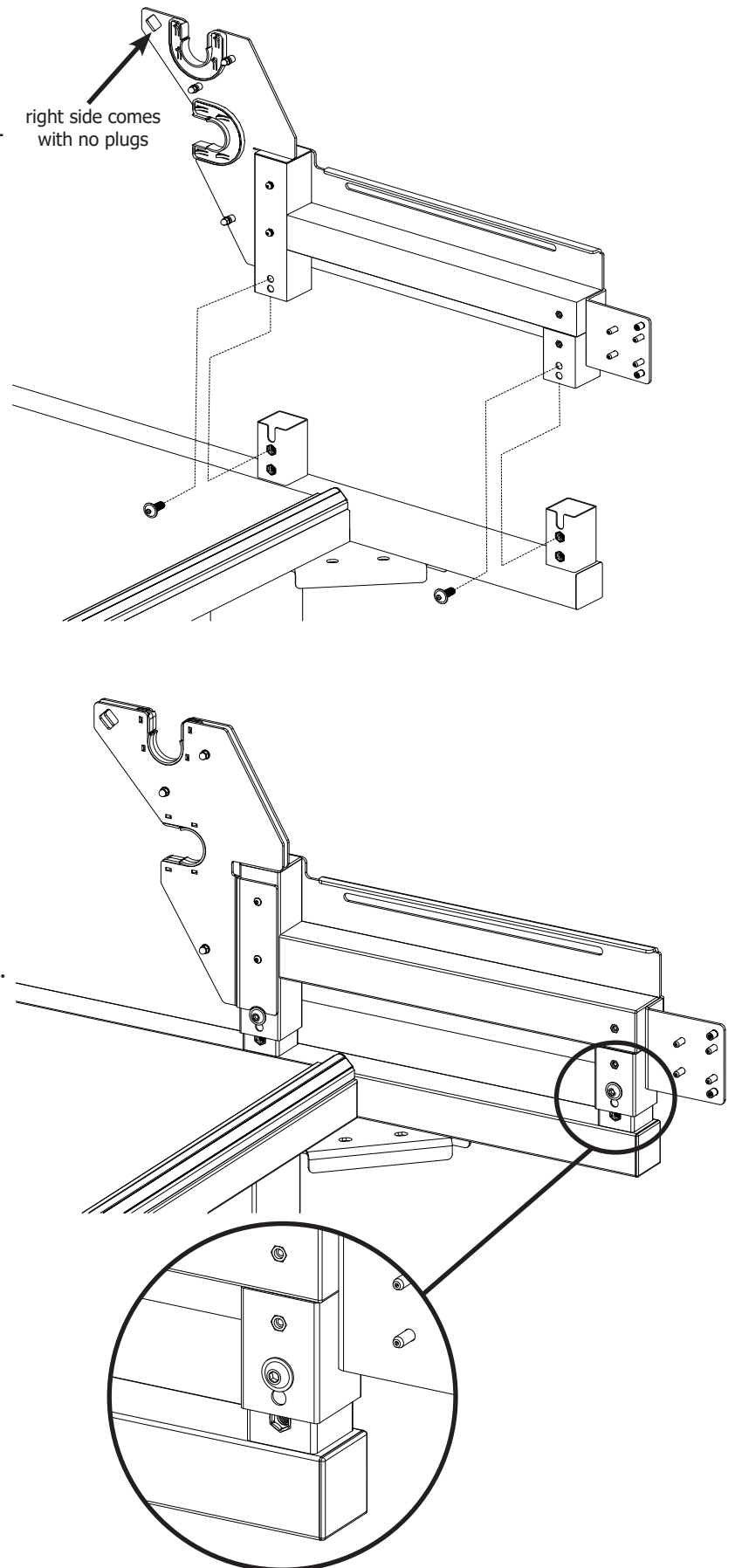
**NOTE: Height for the Infinity 28 machine.**

**17-1:** The right side arms (front and rear) come unplugged ready for the ratchet stops.

**17-2:** Lower the right rear pole side arm assembly w/o plugs onto the tube-table to side arm connector as shown, aligning the top hole on the assembly with the top hole on the connector.

**17-3:** Insert a M8x20 flanged SKB screw through the two holes on the pole side arm assembly into the connector and fully tighten them with a 5mm hex tool.

**17-4:** Repeat the process for left rear pole side arm assembly with plugs.



# Step 18: Pole Side Arm Assembly

## Parts Needed

- 1 - Left Front Pole Side Arm Assy, QF12500-220 (Box 4)
- 1 - Right Front Pole Side Arm Assy, QF12500-120 (Box 4)
- 1 - Plate Connector Left, QF12500-240 (Box 4)
- 1 - Plate Connector Right, QF12500-140 (Box 4)
- 4 - Screw-QM13220, M4x16 SKB (Box 1)
- 4 - Screw- QM10173, M4x10 SKB (Box 1)
- 8 - Washer- QM10229, M4 (Box 1)

## Tools Required

2.5mm Hex Driver

**18-1:** Determine if you are setting the frame up for a 24"/26" machine or 28" machine.

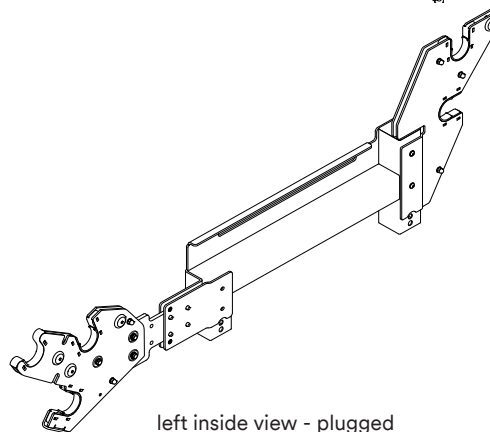
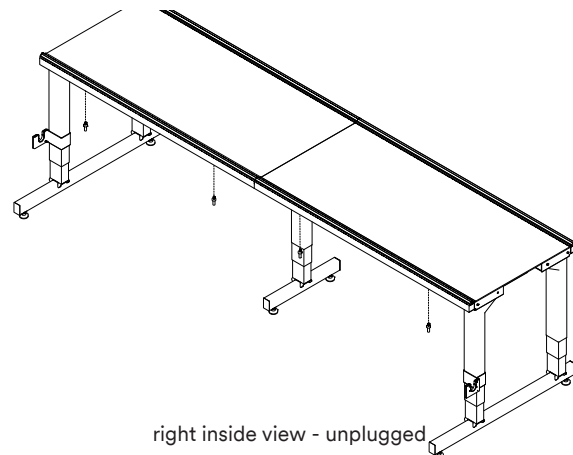
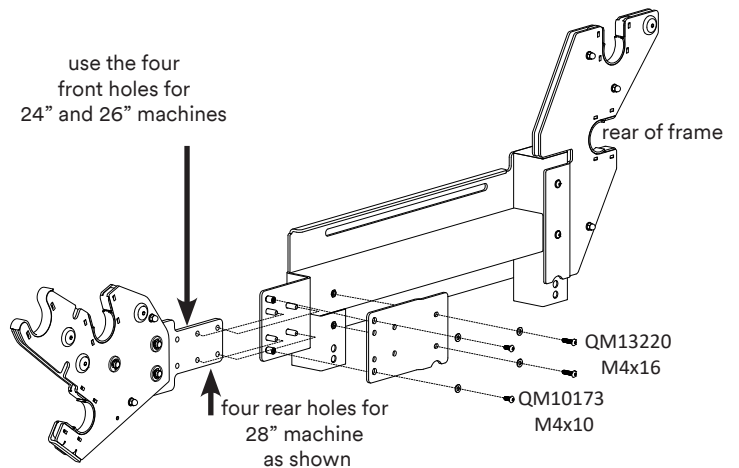
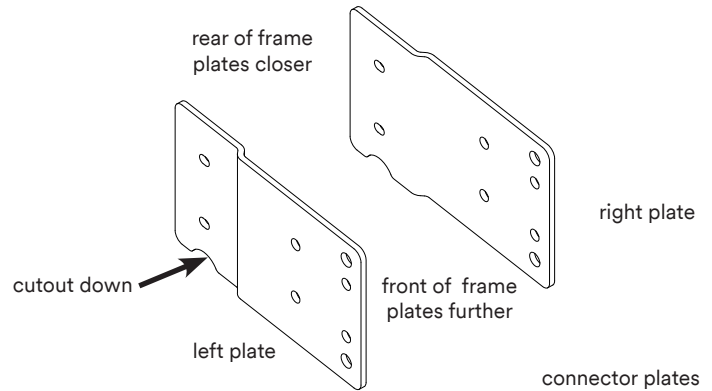
**18-2:** Connect the left rear pole side arm assembly to the front pole side arm assembly using the left connector plate. Notice the plates have two holes to the rear of the frame and multiple holes to the front. The connector plates also have a small bend which makes the rear of the plates closer to the center of the frame than the front of the plates.

**18-3:** Place the front pole side arm assembly holes over the four pins in the rear pole side arm assembly. Use the front four holes for 24"/26" machines and the rear four holes for 28" machines.

**18-4:** Use two QM13220, M4x16 screws with QM10229, M4 washers at the rear through the connector plate and into the rear pole side arm assembly. Use two QM10173, M4x10 screws with QM10229, M4 washers at the front through the connector plate and into the rear pole side arm assembly.

**18-5:** Fully tighten the screws with a 2.5mm hex tool.

**18-6:** Repeat the process for the right side pole assembly.




# Step 19: Ratchet-Stop Assembly

## Parts Needed

- 1 - Unplugged pole side arm assembly.
- Step 18
- 4 - QF09318-204, M6 x 48mm connector screw (Box 1)
- 4 - QF09318-203, Ratchet-stop (Box 1)
- 4 - QF09318-201, Ratchet-stop bushing (Box 1)
- 4 - QF09318-202, Ratchet-stop mount (Box 1)
- 4 - QF09318-205, Ratchet-stop holder Box 1)

## Tools Required

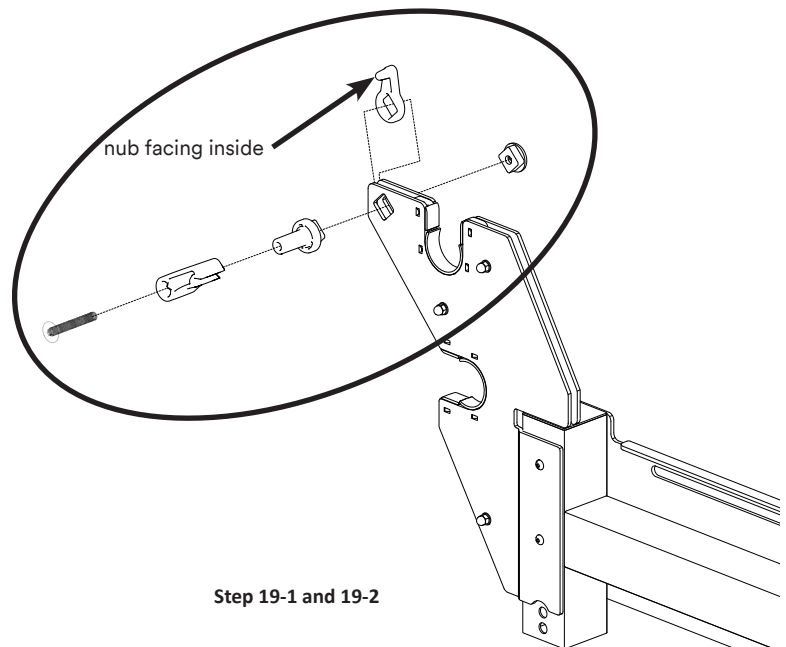
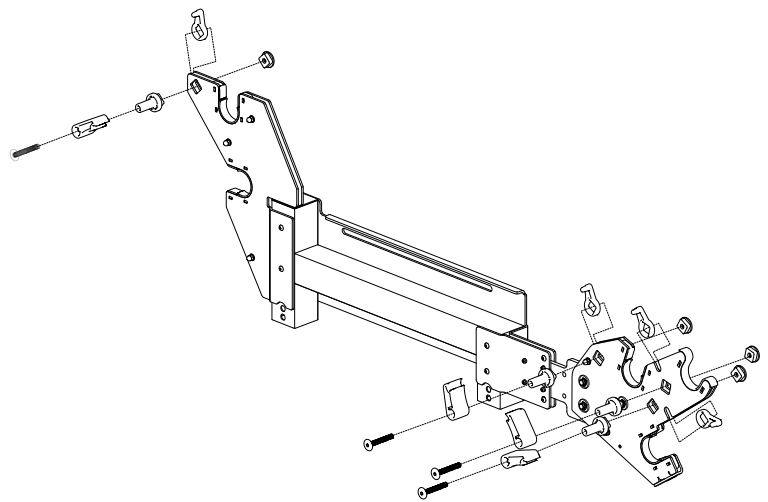
4mm Hex Tool

 **NOTE:** Decide whether you want the ratchets and handwheel to be on the left or the right side of the frame. The following instructions show how to assemble the frame with the ratchets and handwheel on the right side of the frame, which is the most common setup. If you prefer the handwheel to be on the left side of the frame, you will need to remove the plugs from the left side arm assembly and place them into the right side arm assembly.

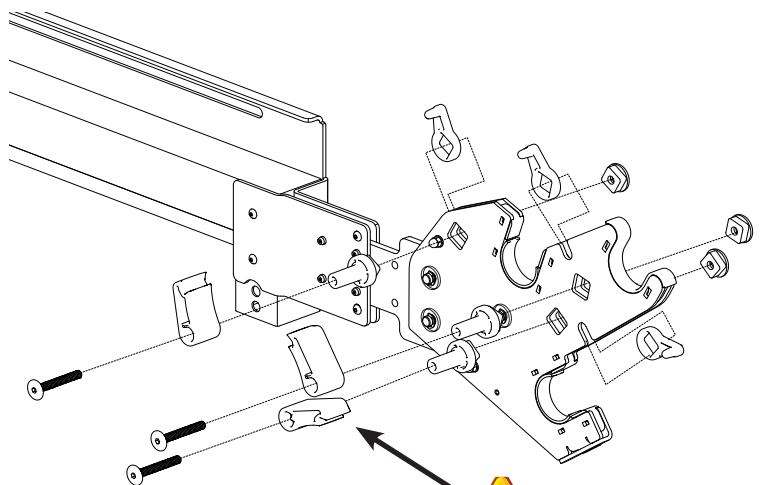
**19-1:** Place one ratchet-stop holder between the two metal pieces at the back of the unplugged pole bracket, with the stop nub facing inside, as shown.

**19-2:** Following the parts order in the circled detail, thread one M6 x 48mm connector screw through a ratchet stop, ratchet-stop bushing, pole bracket (with ratchet-stop holder inserted) and finally into the ratchet-stop mount. Pay close attention to the orientation of the ratchet stop. Tighten with the 4mm hex tool until the ratchet-stop holder nub holds the ratchet stop.

**19-3:** Repeat the above step for the other ratchet stops assemblies. The ratchet stop can be flipped upside down so pay particular attention to its orientation.



Step 19-1 and 19-2



Step 19-3

# Step 20: Pole Couplers and Pole Assemblies

## Parts Needed

**Note:** Couplers and screws come in (Box 5)

### Pole Coupler for 2" Poles / Screws

QF12500-702 / QM10784, M10x25 SKS

10-Foot Frame: 4 Couplers / 16 Screws

12-Foot Frame: 8 Couplers / 32 Screws

15-Foot Frame: 8 Couplers / 32 Screws

### Pole Coupler for 1.5" Pole / Screws

QF09341-702 / QM10784, M10x25 SKS

10-Foot Frame: 1 Coupler / 4 Screws

12-Foot Frame: 2 Couplers / 8 Screws

15-Foot Frame: 2 Couplers / 8 Screws

## Pole Sections

10-Foot Frame: (Box 3 x 2)

- 8 five-foot poles 2"
- 2 five-foot poles 1.5"

12-Foot Frame: (Boxes 3x2 and 6x1)


- 8 five-foot poles 2"
- 4 two-foot poles 2"
- 2 five-foot poles 1.5"
- 1 two-foot pole 1.5"

15-Foot Frame: (Box 3 x 3)

- 12 five-foot poles 2"
- 3 five-foot poles 1.5"

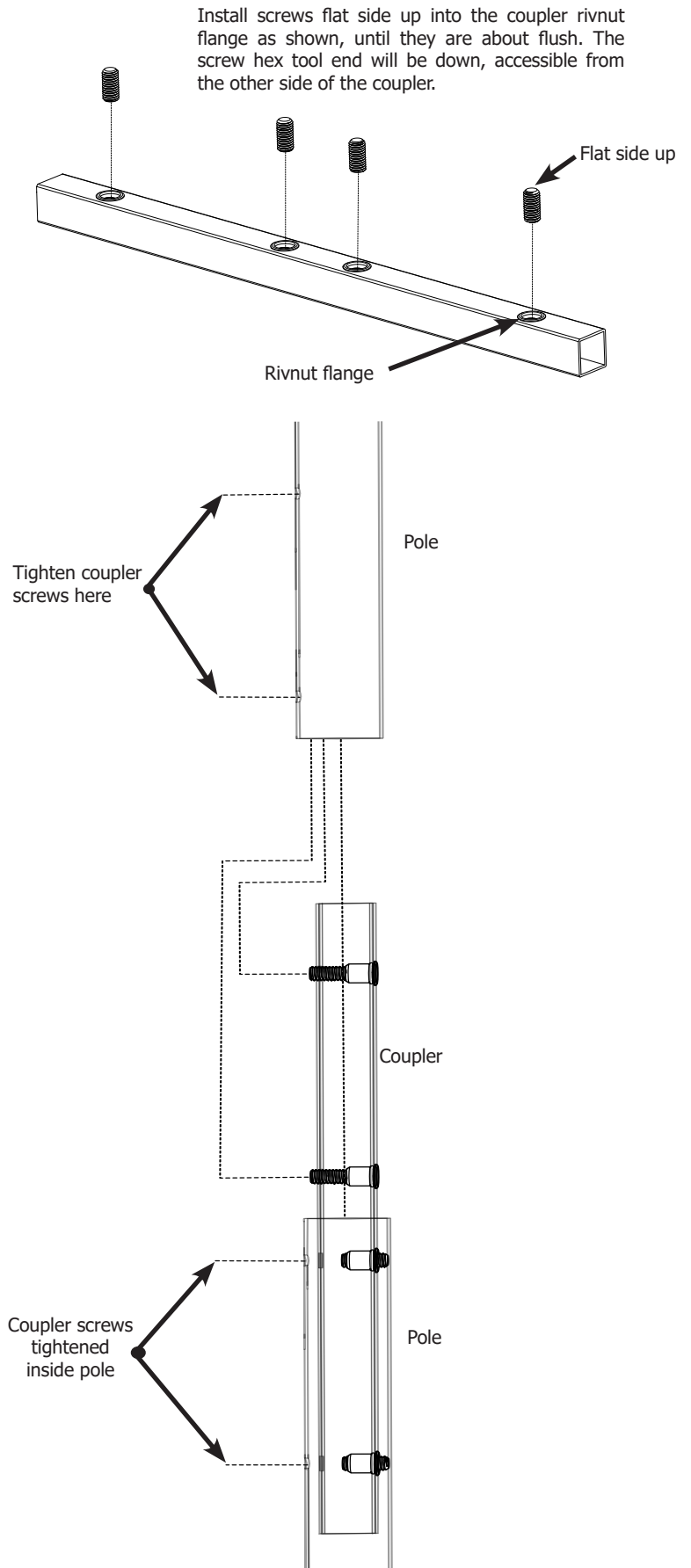
## Tools Required

5mm Hex Tool

 **IMPORTANT:** Be careful not to pinch your hands between pole parts while sliding them together.

**20-1:** Prepare each pole coupler by installing four M10x25 SKS screws flat side up, tool side down into the rivnut flange as shown.

**20-2:** Join two pole sections together by inserting a pole coupler into the end of one pole section half way until the coupler screws align with the holes in the pole. Lightly tighten the two coupler screws to hold it into place.



## Step 20: Pole Couplers and Pole Assemblies - Continued

**20-3:** For 10-foot poles, slide the next 5-foot pole onto the coupler, until it touches the first pole without any gap. Lightly tighten the screws in the second pole. Check for gap between the poles and that the poles are straight, and then fully tighten all four coupler screws.

**20-4:** For 12-foot and 15-foot poles, slide the next 2-foot pole for 12-foot pole and 5-foot for 15-foot pole onto the coupler, until it touches the first pole without any gap. Lightly tighten the screws in the second pole. Check for gap between the poles and that the poles are straight, and then fully tighten all four coupler screws.

**20-5:** For 12-foot and 15-foot poles add final 5-foot pole section to section completed in Step 20-4 to complete one 12-foot pole or one 15-foot pole assembly.

**20-6:** Using remaining couplers and pole sections, repeat **Steps 20-2** through **20-3** to complete four more 10-foot pole assemblies for a total of 5 pole assemblies.

**20-7:** Using remaining couplers and pole sections, repeat **Steps 20-4** through **20-5** to complete four more 12-foot or 15-foot pole assemblies for a total of 5 pole assemblies.



**Note:** For all frames you will have four 2” poles assemblies and one 1.5” pole assembly for the batting storage bar.

## Step 21: Pole End and Ratchet Wheel Assembly - (2" poles)

### Parts Needed - Pole Ends


- 4- 2" poles created in Step 20
- 5 - Rail Bearing, 2" GF3, QF12500-703 (Box 1)
- 5 - Retainer Pole End 2", GF3, QF12500-704 (Box 1)
- 5 - Screw - M8x20 shoulder screw w/6mm threads, QF09318-722 (Box 1)

### Parts Needed - Ratchet Wheel

- 2 - Ratchet Wheels, QF12500-707 (Box 1)
- 2 - Rail Bearing, 2" GF3, QF12500-703 (Box 1)
- 2 - Retainer Pole End 2", GF3, QF12500-704 (Box 1)
- 2 - Screw - M8x22 shoulder screw w/6mm threads, QF12500-705 (Box 1)

### Tools Required

- 4mm Hex Tool

 **NOTE:** The screw used in **Steps 21-1 to 21-3** is the M8x20 for this step. This screw is slightly shorter than the screw used on pole ends with ratchet wheels, which is a M8x22 screw, used in **Steps 21-4 and 21-5**. Identify both screws first to ensure you are using the correct screw for each step.

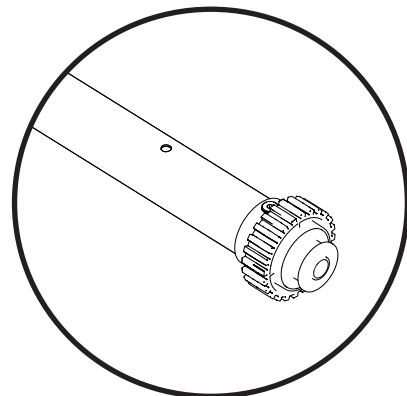
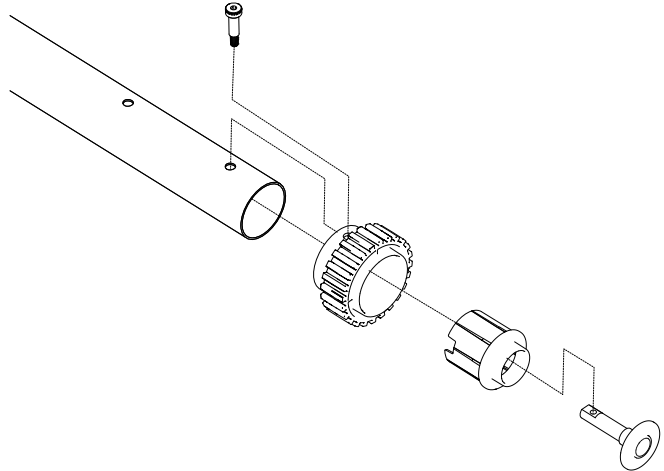
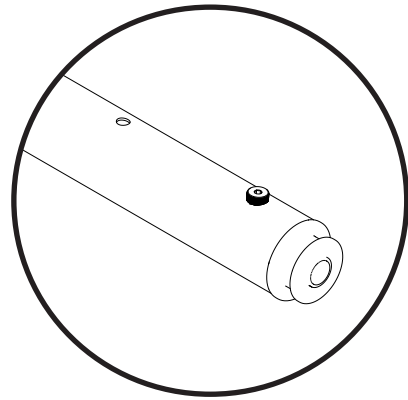
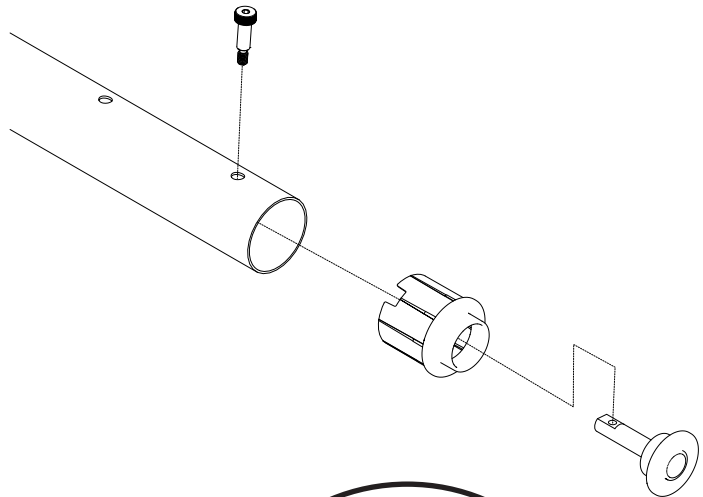
**21-1:** Place one rail bearing 2", one retainer pole end 2", and one M8x20 shoulder screw on one end of a 2" pole assembly. The screw will tighten down on a flat of the retainer.

**21-2:** Repeat **Step 21-1** for all four 2" pole assemblies.

**21-3:** Repeat **Step 21-1** on the other end of one pole, so it will have the same pole end assembly on both ends. This pole will become the idler pole.

**21-4:** Place one ratchet wheel, one rail bearing, one retainer pole end and one M8x22 shoulder screw on the end of a 2" pole assembly; fully tighten the screw.

**21-5:** Repeat **Step 21-4** one more time for a 2nd ratchet wheel assembly pole.



## Step 22: Handwheel Ratchet Wheel Assembly - (2" poles)

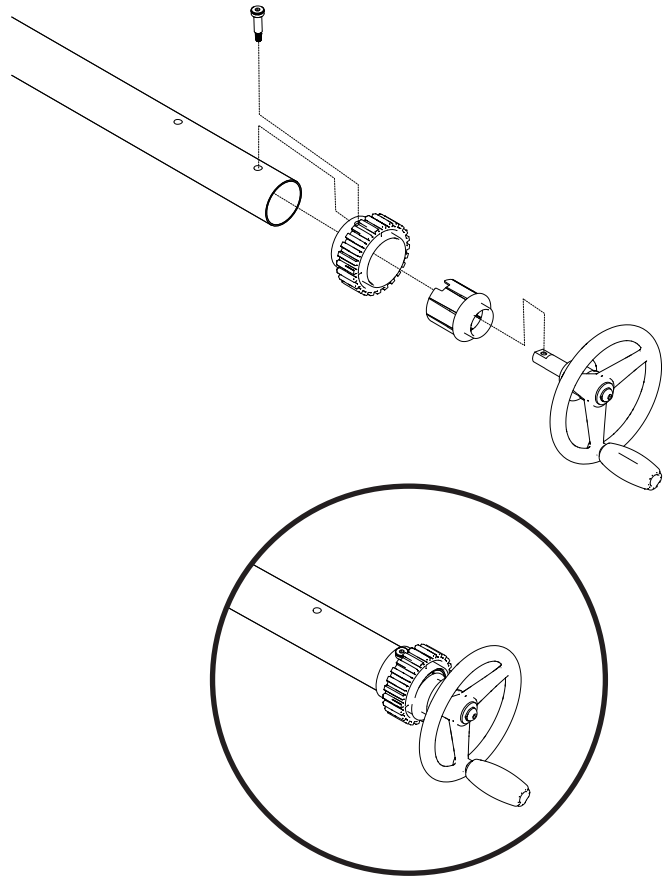
### Parts Needed - Handwheel Ratchet Wheel

- 1 - Pole with pole end on one end and nothing on the other from Step 21
- 1 - Handwheel Assembly QF12500-770 (Box 1)
- 1 - Ratchet Wheel, QF12500-707 (Box 1)
- 1 - Rail Bearing, 2" GF3, QF12500-703 (Box 1)
- 1 - Screw - M8x22 shoulder screw w/6mm threads, QF12500-705 (Box 1)

### Tools Required

4mm Hex Tool

- 22-1:** Place one ratchet wheel, one rail bearing, one handwheel assembly, and one M8x22 shoulder screw on the end of a 2" pole assembly; fully tighten the screw.



## Step 23: Batting Pole Assembly - (1.5" pole)

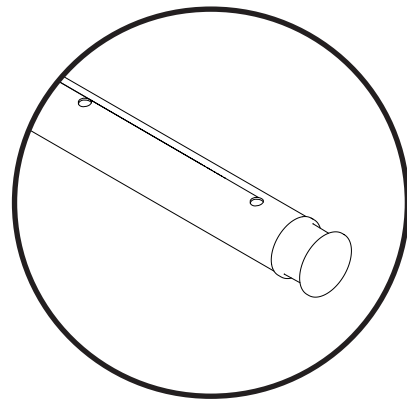
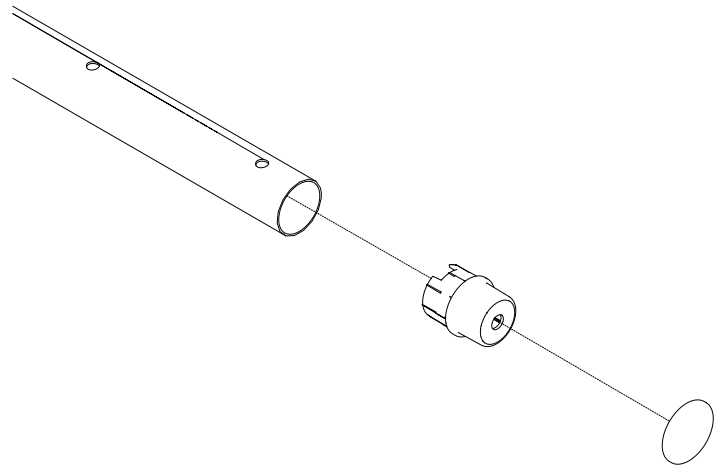
### Parts Needed

- 1 - 1.5" pole assembly from step 20
- 2- Pole End, QF09341-703 (Box 1)
- 1 - Retainer Pole End, QF09341-705 (Box 1)
- 1 - Screw - M8x16 shoulder screw w/6mm threads, QF09341-708 (Box 1)
- 1 - Locking Pole End, QF09341-706 (Box 1)

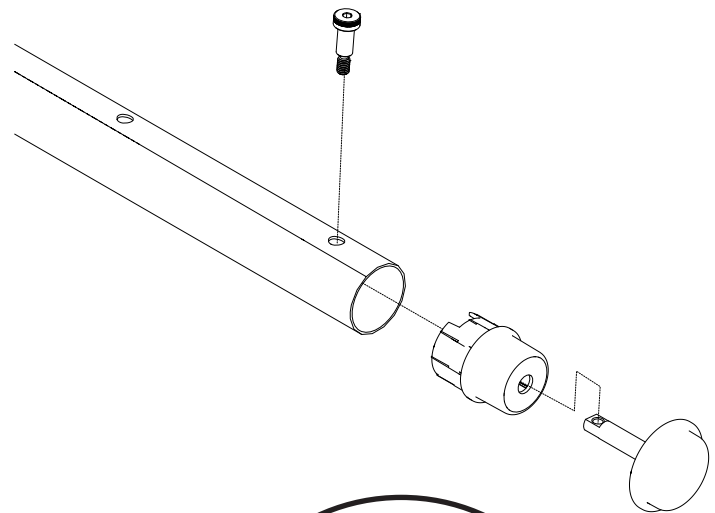
### Tools Required

- 4mm Hex Tool

**23-1:** On one end of the 1.5" batting pole assembly, push a pole end into the pole and snap a retainer pole end into it.

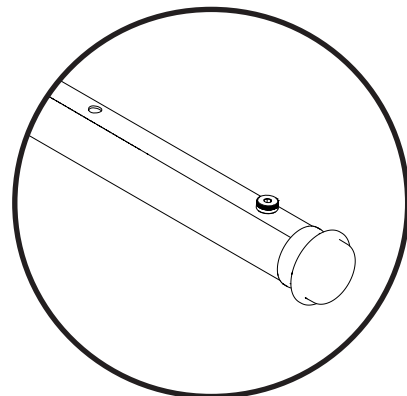


**23-2:** On the other end of the batting pole push a pole end into the end of the pole.



**23-3:** Insert a locking retainer into the pole, with the flat up towards the hole in the side of the pole and start the M8x16 with 6 mm threads screw into the locking retainer.

**23-4:** Fully tighten the M8x16 w/6mm threads screw into the locking retainer with a 4mm hex tool.

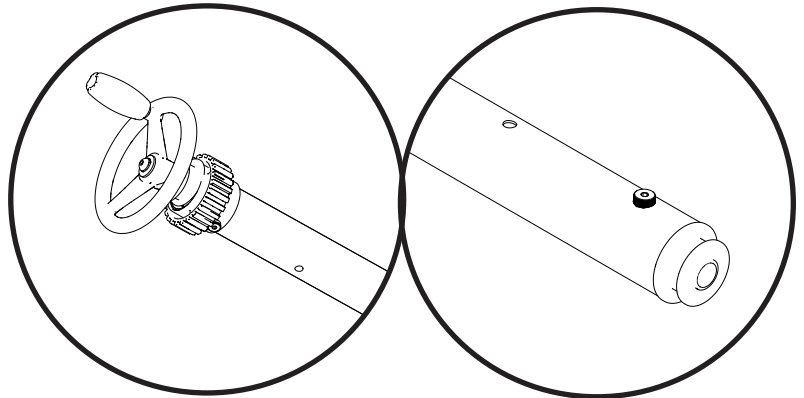


## Step 24: Pole Summary

At this point you should have created all the pole assemblies appropriate for the length of your frame; 10-Foot, 12-Foot, or 15-Foot:

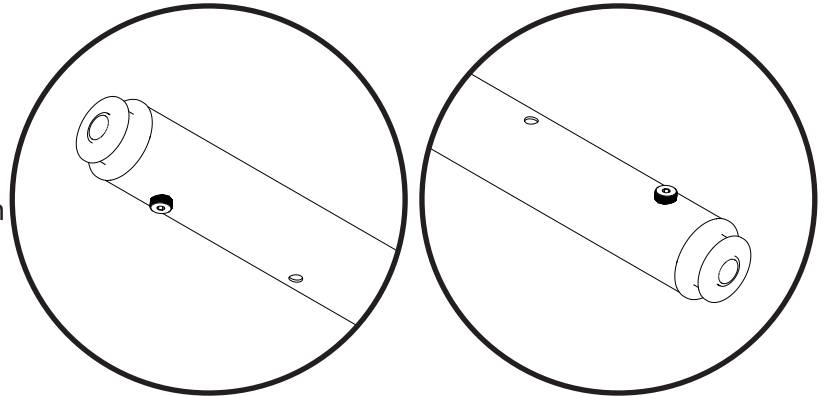
### One Handwheel / Ratchet Wheel Pole (2")

With a Handwheel, Rail bearing, and a Retainer Pole End with screw on one end and a Rail Bearing and Retainer pole end with screw on the other end.



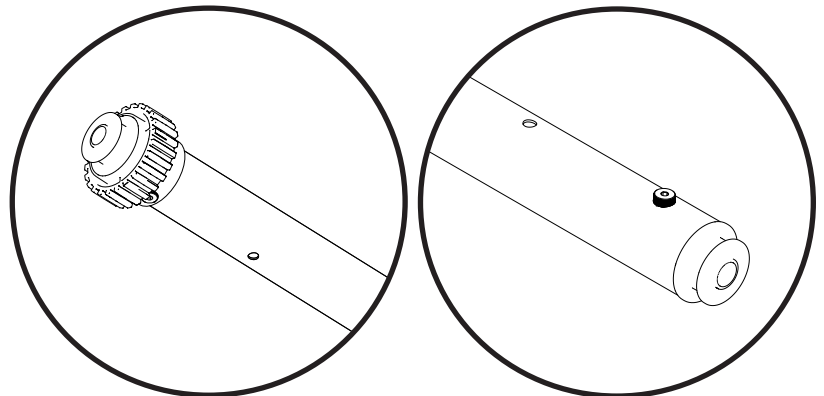
### One Idler Pole (2")

With Rail Bearing and Retainer Pole End with screw on both ends.



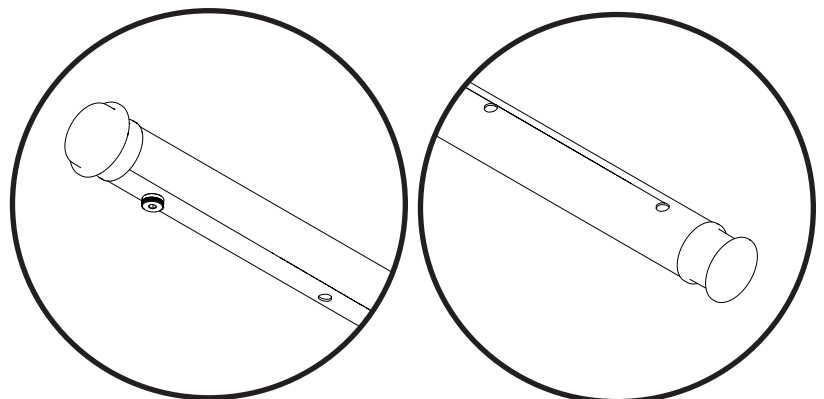
### Two Ratchet Poles (2")

With Ratchet Wheel, Rail Bearing and Retainer Pole End with screw on one end and Rail Bearing and Retainer Pole End with screw on the other end.



### One Batting Pole (1.5")

With Retainer Pole End and Pole End on one end and a Pole End and Locking Retainer with screw on the other end.




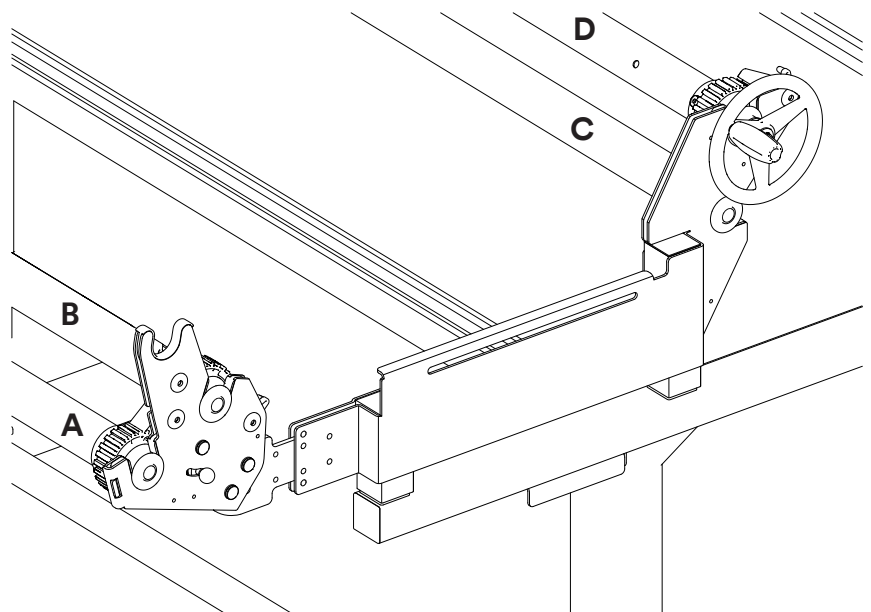
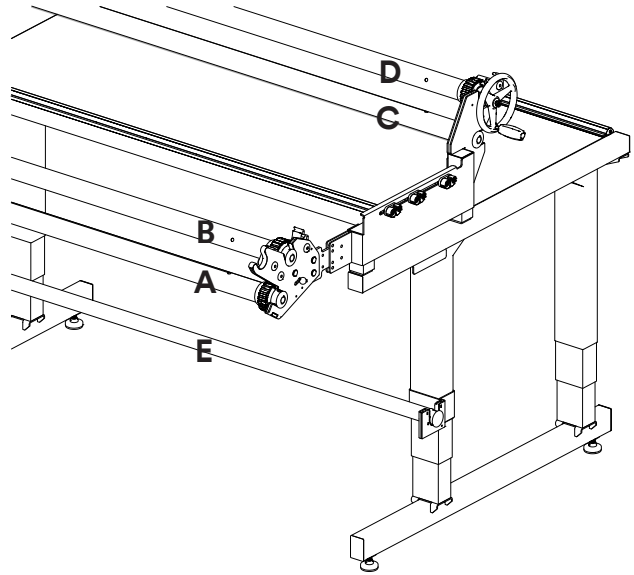
## Step 25: Pole to Frame Assembly

### Parts Needed

- 1 - frame assembly
- 1 - backing pole (A)
- 1 - quilt-top pole (B)
- 1 - idler pole (C)
- 1 - take-up pole (D)
- 1 - batting storage pole (E)

**25-1:** Place the poles on the frame as shown.

 **NOTE:** Images shown in Position 1 up position. In Position 2, down position, pole A is the quilt-top pole and pole B is the backing pole. See Steps 33 and 34 for more information.



## Step 26: Level the Frame


### Parts Needed

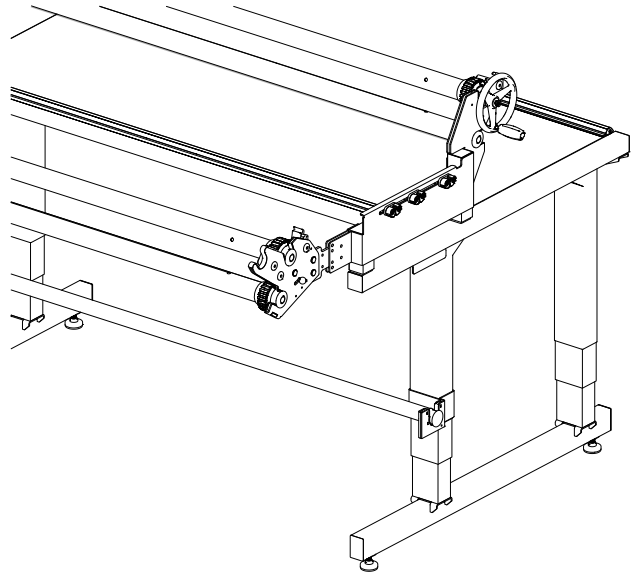
1 - frame assembly w/leveling feet

### Tools Needed

16mm wrench - provided

**26-1:** Adjust the frame leveling feet until the frame is level using a 16mm wrench.

 **NOTE:** The best test to ensure frame performance is smooth, is with the machine on the carriage placed on the tracks. When the frame is level and the machine is stopped, the machine will remain where it is placed and not move side to side or front to back when you let go of it.



# Step 27: Lift System 10-Foot Frame (see Step 28 for 12' and Step 29 for 15')

## Parts Needed

- 1 - 10-Foot Frame
- 1 - Keypad, QF12500-802 (Box 13)
- 1 - Communication Cable, QF12500-806 (Box 13)
- 1 - 2 Column Control Box, QF12500-804 (Box 13)
- 1 - Lift Column (Box 13)
- 4 - 1.5m Extension Cable\*, QF12500-808 (Box 12)
- 2 - 3.0m Extension Cable, QF12500-807 (Box 12)
- 2 - Lift Column, QF12500-801 (Box 12)
- 1 - 3 Column Control Box, QF12500-803 (Box 11)
- 2 - Power Cables, QF12500-805 (Box 11)
- 2 - Lift Columns, QF12500-801 (Box 11)
- 2 - Plate-Control Box Mount, QF12500-304 (BOX 4)
- 4 - Screws- M8x20 Flanged SKB ZN, QM10959, for plates (Box 1)
- 4 - Screws-M4x12 SKB, QM13237, for controller (Box 1)
- 2 - Screws - M4x16 SKB, QM10785, for keypad (Box 1)

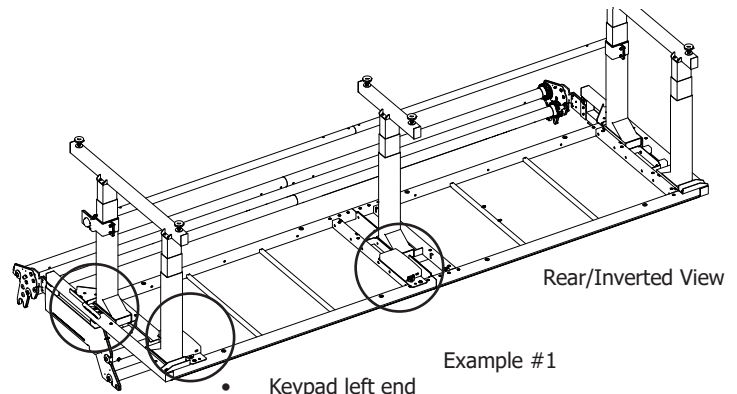
## Tools Required

- 2.5mm Hex Tool
- 5mm Hex Tool

\* Note: The 1.5m extension cables are packaged the same in Box 12 for the 10-Foot Frame, the 12-Foot Frame and the 15-Foot Frames; however they all may not be needed for the 10-Foot Frame.

**NOTE:** The column control boxes mount under the frame top where the optional drawer mounts. The boxes can both be mounted at middle of the frame at the rear, both towards the middle of the frame one in front of the other, or one in the middle rear and one at one end at the rear. Each control box has a power cord.

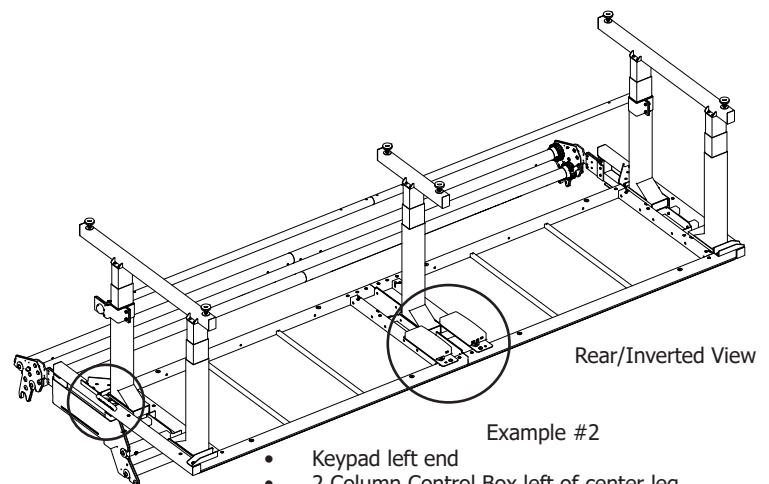
Make you decision on where to place the control boxes by where it is easiest to power the box and avoid where you may want a drawer, for example on the left or right side.



Left

Example #1

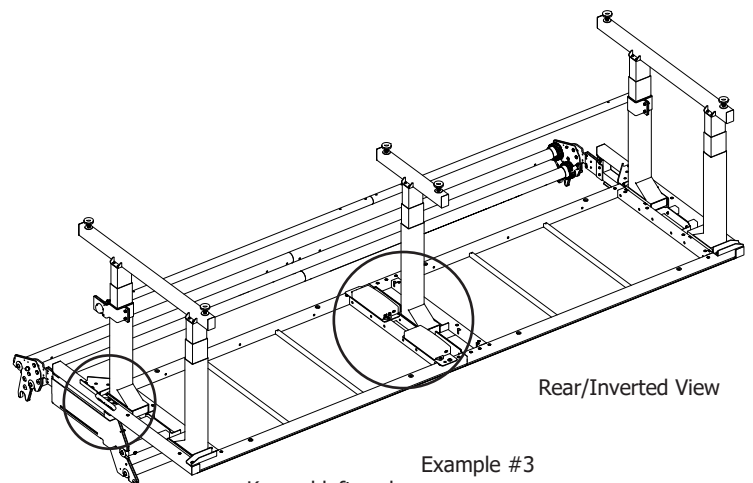
- Keypad left end
- 2 Column Control Box left end
- 3 Column Control Box left of center leg
- Leaves opening for optional drawer on right
- Control Box power cords apart
- Reverse ends if you want the keypad on the right end



Left

Example #2

- Keypad left end
- 2 Column Control Box left of center leg
- 3 Column Control Box right of center leg
- Control Box power cords together
- No opening for optional drawer on right
- Reverse ends if you want the keypad on the right end



Left

Example #3

- Keypad left end
- 2 Column Control Box left front of center leg
- 3 Column Control Box left rear of center leg
- Control Box power cords together
- Leaves opening for optional drawer on right
- Reverse ends if you want the keypad on the right end

## Step 27: Lift System 10-Foot Frame - continued

**27-1:** Determine if you would like the lift keypad on the left or right end of the frame. You may want it on the same end that you decided to put the handwheel and latches. (*In these instructions we will show it on the left end of the frame.*)

**27-2:** Take into consideration whether you are installing an optional drawer now or in the future. You will want to install the control boxes where they will not be in the way of the drawer. See previous page for more information.


**27-3:** Install the QF12500-802 keypad for the lift system using two M4x16 SKB screws on the end your determined best for your particular setup. Fully tighten them with a 2.5mm hex tool.

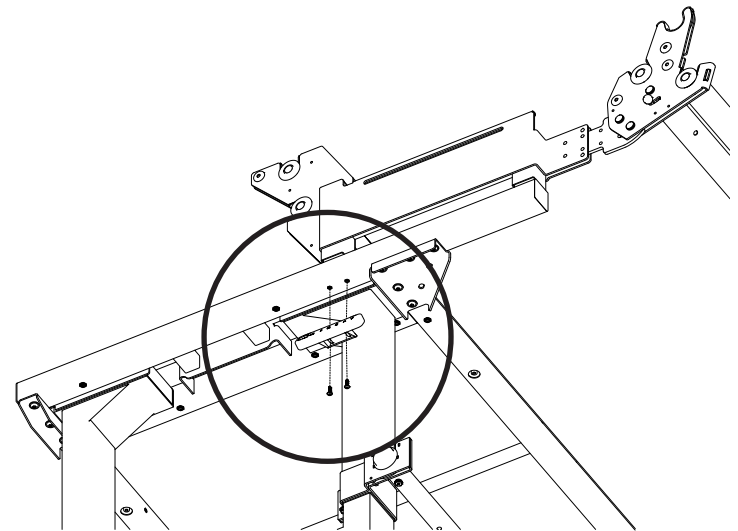
**27-4:** Install two QF12500-304, plate-control box mounts where you determined they will be best for you (*these instructions will use example #1*), with two M8x20 Flanged SKB screws each. Fully tighten the screws with a 5mm hex tool.

**27-5:** Install the QF12500-804, 2 column control box to the left plate-control box mount, with the power input to the back of the frame, using two M4x10 SKB screws and fully tighten them with a 2.5mm hex tool.

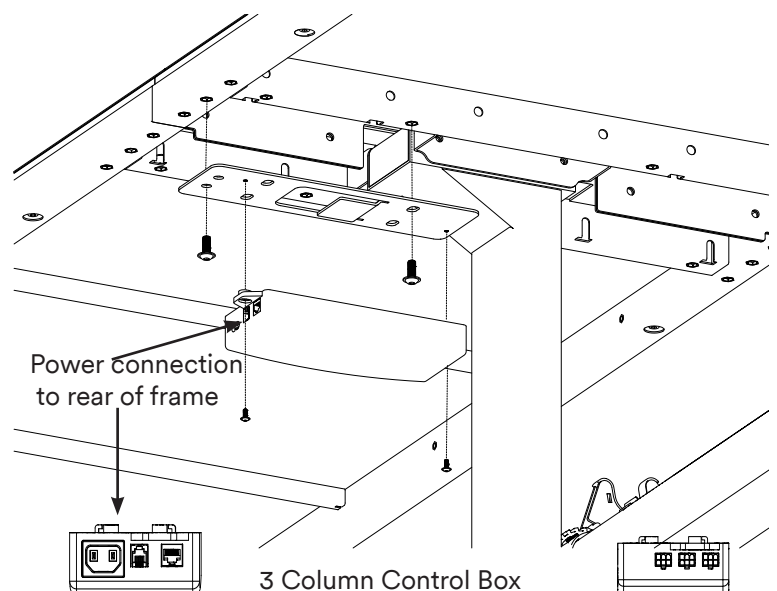
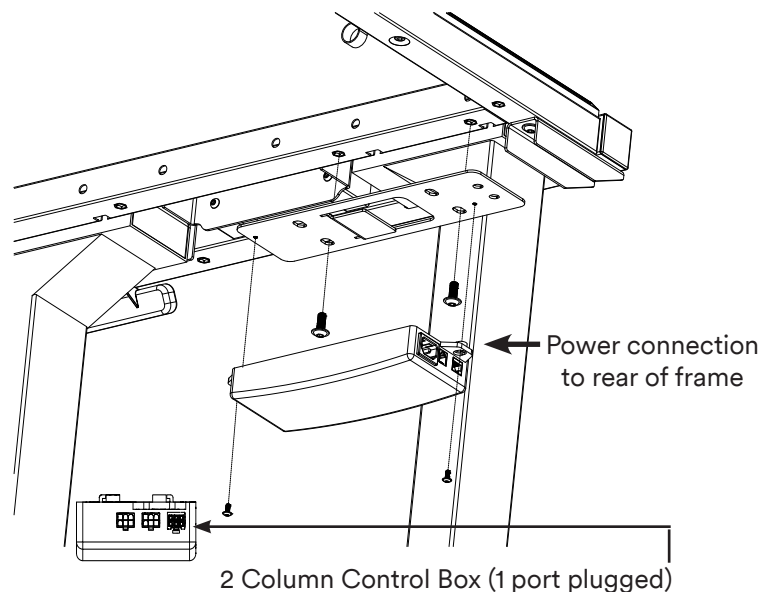
**27-6:** Install the QF12500-803, 3 column control box to the plate-control box mount, with the power input to the back of the frame, using two M4x10 SKB screws and fully tighten them with a 2.5mm hex tool.

**27-7:** Connect the keypad to the closest Column Control Box.

 **NOTE:** The keypad can be connected to either the 2 column control box or the 3 column control box.



Keypad



## Step 27: Lift System 10-Foot Frame - continued

**27-8:** Connect the QF12500-806 communication cable between the QF12500-804, 2 column control box and the QF12500-803, 3 column control box.

**27-9:** Connect the two left end lift columns to the control box on the left end of the frame.

**27-10:** Connect the single middle leg to the QF12500-803, 3 column control box at the center of the frame.

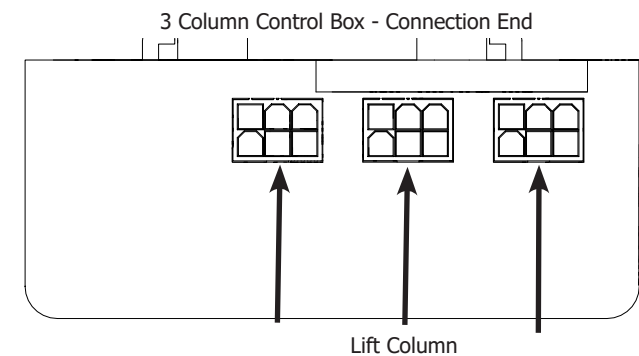
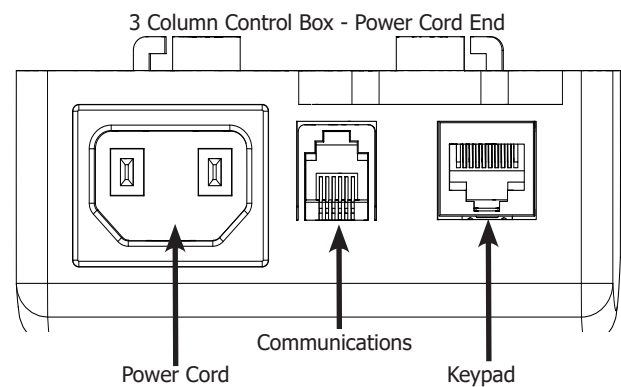
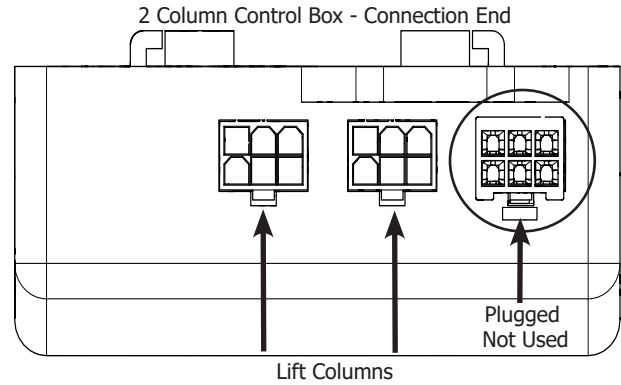
**27-11:** Connect the two lift columns on the right end of the frame to QF12500-807, 3.0m extension cables, and then to the QF12500-803, 3 column control box at the center of the frame.

**27-12:** Connect a QF12500-805, power cable to the back of the QF12500-804, 2 Position Control Box and the QF12500-803, 3 column control box.

**NOTE:** All lift columns must be firmly connected into the column control boxes in order for the system to function properly.

**Caution:** Do not operate the lift system without the communications cable connected between the two column control boxes!

**IMPORTANT:** It is recommended that all lift connection cables are connected firmly and double checked before attempting to operate the lift system.




## Step 28: Lift System 12-Foot Frame

### Parts Needed

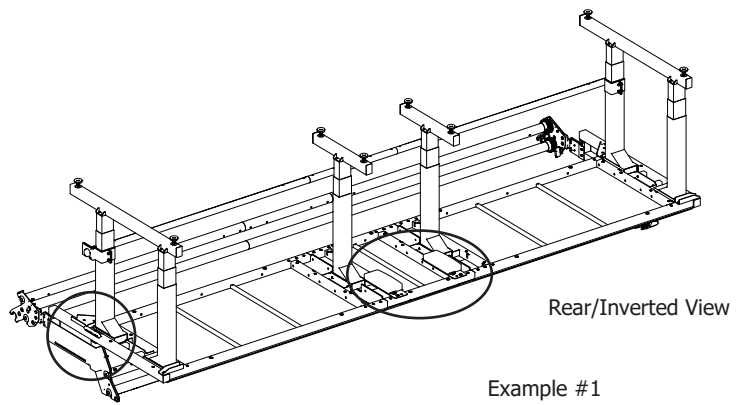
- 1 - 12-Foot Frame
- 1 - Keypad, QF12500-802 (Box 14)
- 1 - Communication Cable, QF12500-806 (Box 14)
- 1 - 3 Column Control Box, QF12500-803 (Box 14)
- 2 - Lift Column, QF12500-801 (Box 14)
- 4 - 1.5m Extension Cable\*, QF12500-808 (Box 12)
- 2 - 3.0m Extension Cable, QF12500-807 (Box 12)
- 2 - Lift Column, QF12500-801 (Box 12)
- 1 - 3 Column Control Box, QF12500-803 (Box 11)
- 2 - Power Cables, QF12500-805 (Box 11)
- 2 - Lift Columns, QF12500-801 (Box 11)
- 2 - Plate-Control Box Mount, QF12500-304
- 4 - Screws- M8x20 Flanged SKB ZN, QM10959, for plates (Box 1)
- 4 - Screws-M4x12 SKB, QM13237, for controller (Box 1)
- 2 - Screws - M4x16SKB, QM10785, for keypad (Box 1)

\* Note: The 1.5m extension cables are packaged the same in Box 12 for the 10-Foot Frame, the 12-Foot Frame and the 15-Foot Frames; however they all may not be needed for the 12-Foot Frame.

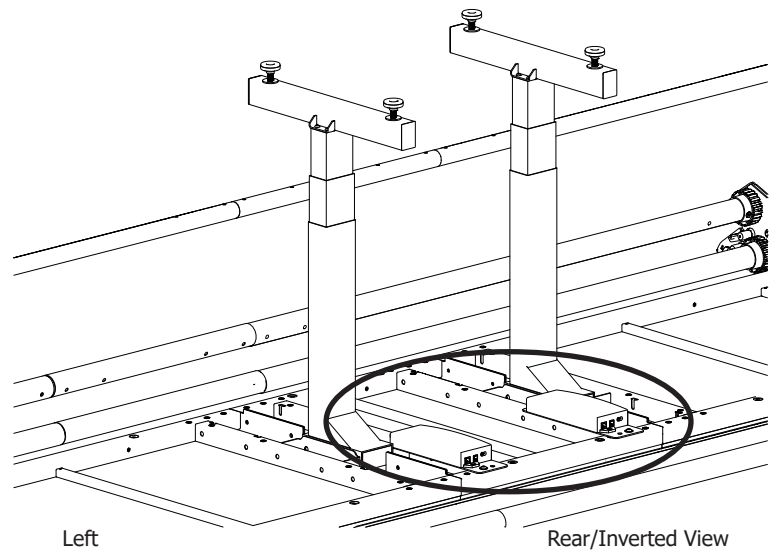
 **NOTE:** The column control boxes mount under the frame top where the optional drawer mounts. They are shown mounted towards the center of the two center legs so they will not interfere with a drawer on the left or right side. See circled image at right.

### Tools Required

- 2.5mm Hex Tool
- 5mm Hex Tool



Left




## Step 28: Lift System 12-Foot Frame - continued

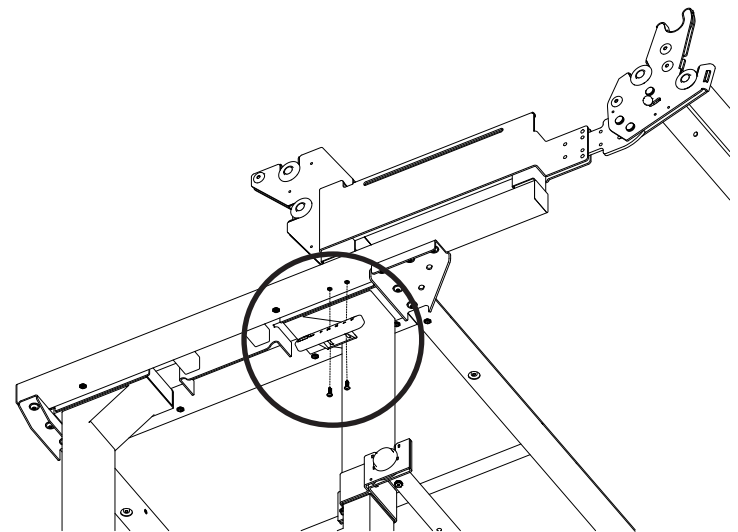
**28-1:** Determine if you would like the lift keypad on the left or right end of the frame. You may want it on the same end that you decided to put the handwheel and latches. *(In these instructions we will show it on the left end of the frame.)*

**28-2:** Install the QM12500-802 keypad for the lift system using two M4x16 SKB screws on the end your determined best for your particular setup. Fully tighten them with a 2.5mm hex tool.

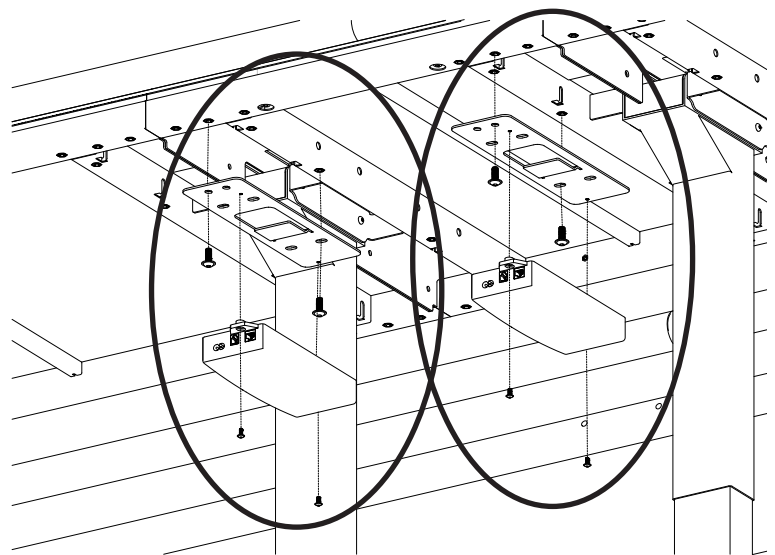
**28-3:** Install two QF12500-304 plate-control box mounts on the inside of the center legs so they will not interfere with any drawer mounting now or in the future on the left and right sides of the frame. Use two M8x20 Flanged SKB screws each. Fully tighten the screws with a 5mm hex tool.

**28-4:** Install the two QF12500-803, 3 column control boxes to the plate-control box mounts, with the power input to the back of the frame, using two M4x10 SKB screws on each and fully tighten them with a 2.5mm hex tool.

 **NOTE:** The keypad can be connected to either of the 3 column control boxes. The connection will usually be made to the closest box.

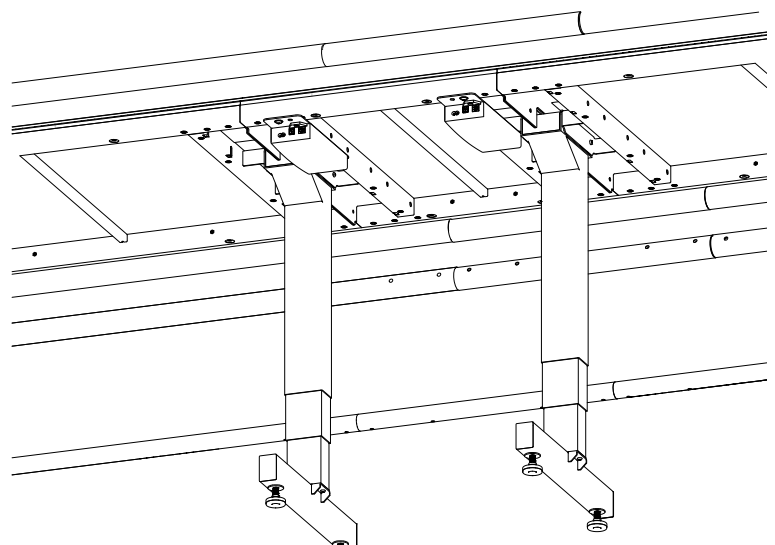


Keypad



3 Column Control Boxes

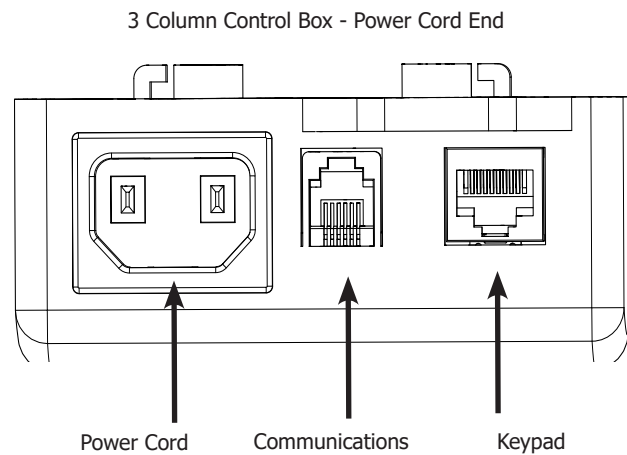
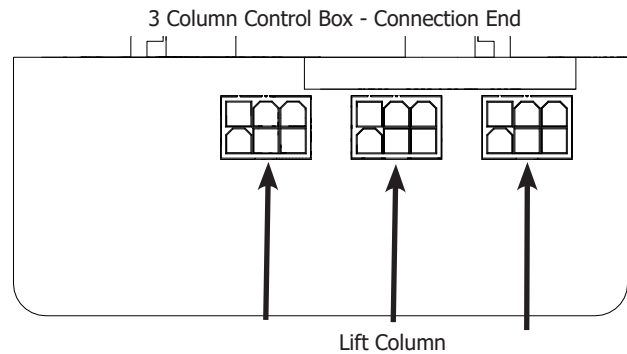
Power connection  
to rear of frame



3 Column Control Boxes

## Step 28: Lift System 12-Foot Frame - continued

- 28-5:** Connect the QF12500-806 communication cable between the two QF12500-803, 3 column control boxes.
- 28-6:** Connect the two rear, left and right lift columns to a QF12500-808, 1.5m extension cable and then to the column control box closest to them.
- 28-7:** Connect the two front, left and right lift columns to a QF12500-807, 3.0m extension cable and then to the column control box closest to them.
- 28-8:** Connect the two center lift columns directly to the control box closest to them.
- 28-9:** Connect the QF12500-805, power cable to the back of both QF12500-803, 3 column control boxes.



**NOTE:** All lift columns must be firmly connected into the column control boxes in order for the system to function properly.

**Caution:** Do not operate the lift system without the communications cable connected between the two column control boxes!


**IMPORTANT:** It is recommended that all lift connection cables are connected firmly and double checked before attempting to operate the lift system.

## Step 29: Lift System 15-Foot Frame

### Parts Needed

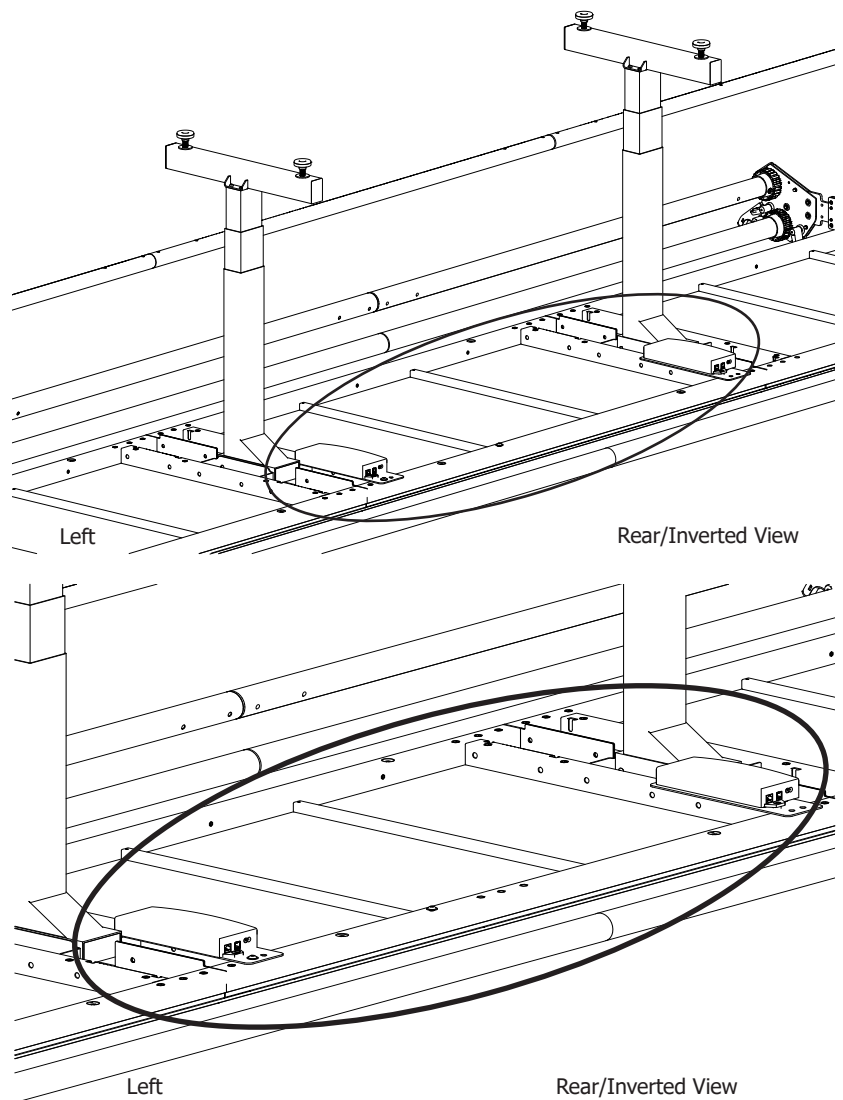
- 1 - 12-Foot Frame
- 1 - Keypad QF12500-802 (Box 14)
- 1 - Communication Cable, QF12500-806 (Box 14)
- 1 - 3 Column Control Box, QF12500-803 (Box 14)
- 2 - Lift Column, QF12500-801 (Box 14)
- 4 - 1.5m Extension Cable\*, QF12500-808 (Box 12)
- 2 - 3.0m Extension Cable, QF12500-807 (Box 12)
- 2 - Lift Column, QF12500-801 (Box 12)
- 1 - 3 Column Control Box, QF12500-803 (Box 11)
- 2 - Power Cables, QF12500-805 (Box 11)
- 2 - Lift Columns, QF12500-801 (Box 11)
- 2 - Plate-Control Box Mount, QF12500-304
- 4 - Screws- M8x20 Flanged SKB ZN, QM10959, for plates (Box 1)
- 4 - Screws-M4x12 SKB, QM13237, for controller (Box 1)
- 2 - Screws - M4x16SKB, QM10785, for keypad (Box 1)

\* Note: The 1.5m extension cables are packaged the same in Box 12 for the 10-Foot Frame, the 12-Foot Frame and the 15-Foot Frames; however all of these may not be needed for the 15-Foot Frame.

 **NOTE:** The column control boxes mount under the frame top where the optional drawer mounts. They are shown mounted towards the center of the two center legs so they will not interfere with a drawer on the left or right side.

### Tools Required

- 2.5mm Hex Tool
- 5mm Hex Tool




## Step 29: Lift System 15-Foot Frame - continued

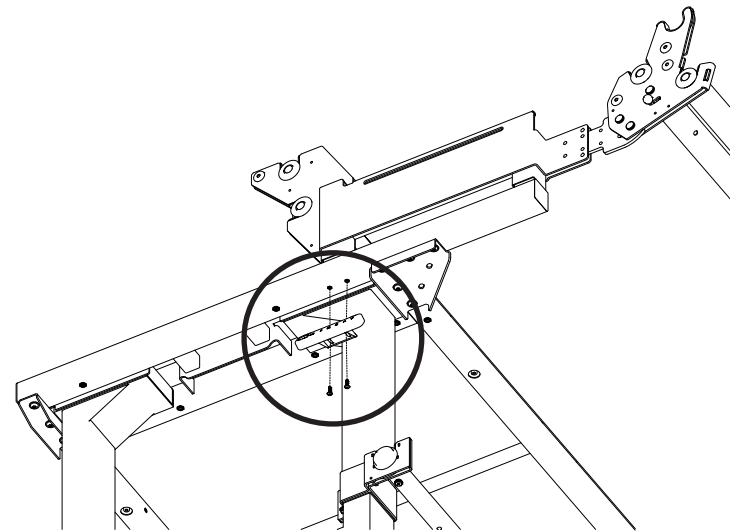
**29-1:** Determine if you would like the lift keypad on the left or right end of the frame. You may want it on the same end that you decided to put the handwheel and latches. *(In these instructions we will show it on the left end of the frame.)*

**29-2:** Install the QF12500-802, keypad for the lift system using two M4x16 SKB screws on the end your determined best for your particular setup. Fully tighten them with a 2.5mm hex tool.

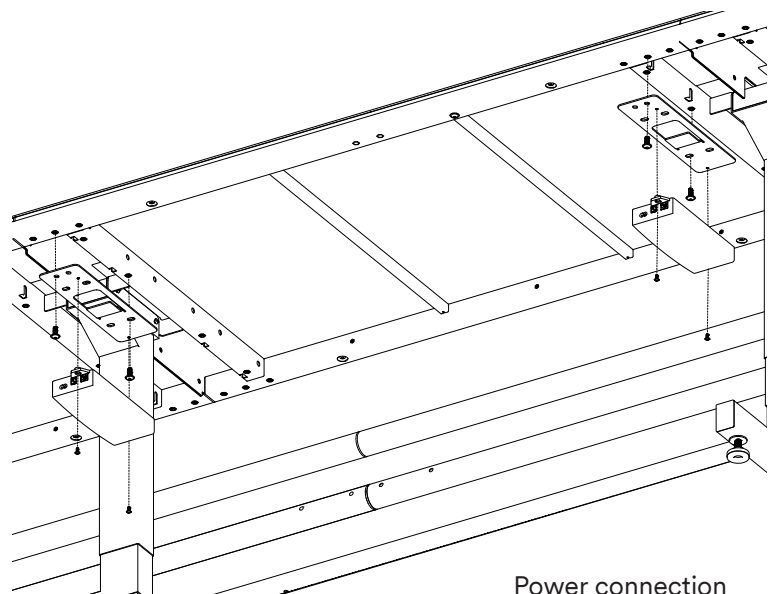
**29-3:** Install two plate-control box mounts on the inside of the center legs so they will not interfere with any drawer mounting now or in the future on the left and right sides of the frame. Use two M8x20 Flanged SKB screws each. Fully tighten the screws with a 5mm hex tool.

**29-4:** Install the two QF12500-803, 3 column control boxes to the plate-control box mounts, with the power input to the back of the frame, using two M4x10 SKB screws on each and fully tightening them with a 2.5mm hex tool.

 **NOTE:** The keypad can be connected to either of the 3 column control boxes. The connection will usually be made to the closest box.

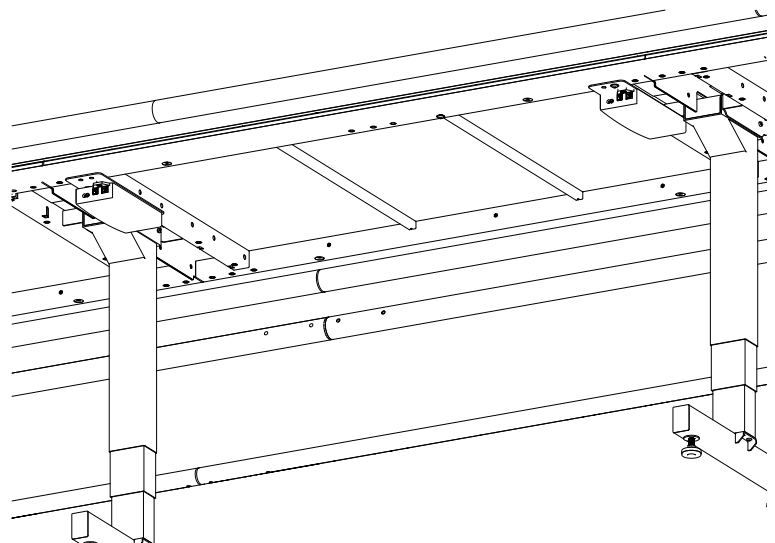


Keypad



3 Column Control Boxes

Power connection  
to rear of frame



3 Column Control Box

## Step 29: Lift System 15-Foot Frame - continued

**29-5:** Connect the QF12500-806, communication cable between the two QF12500-803, 3 column control boxes.

**29-6:** Connect the two rear, left and right lift columns to a QF12500-808, 1.5m extension cable and then to the column control box closest to them.

**29-7:** Connect the two front, left and right lift columns to a QF12500-807, 3.0m extension cable and then to the column control box closest to them.

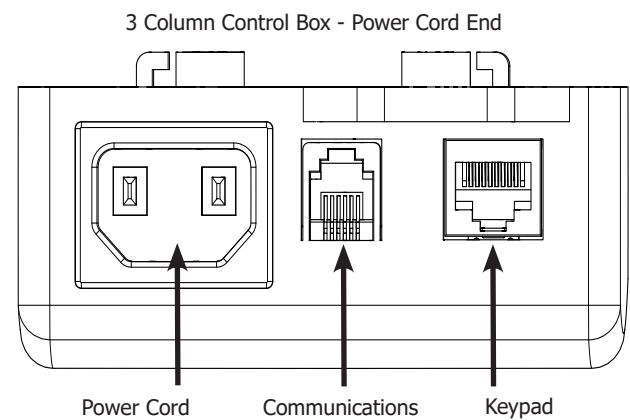
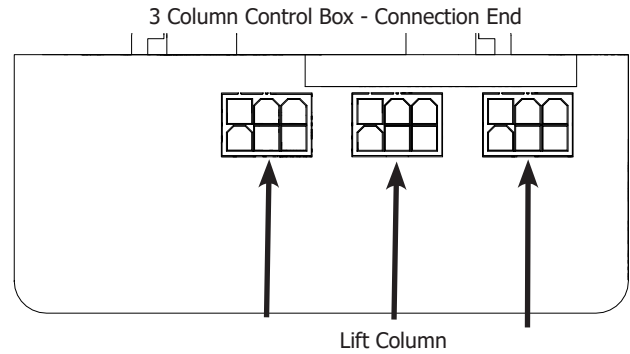
**29-8:** Connect the two center lift columns directly to the control box closest to them.

**29-9:** Connect a power cable to the back of both 3 column control boxes.

**NOTE:** All lift columns must be firmly connected into the column control boxes in order for the system to function properly.

**CAUTION:** Do not operate the lift system without the communications cable connected between the two column control boxes!

**IMPORTANT:** It is recommended that all lift connection cables are connected firmly and double checked before attempting to operate the lift system.



## Step 30: Lift System Cable Management and Control


### Parts Needed

9 - P-Clip 20mm, QF10112

9 - Screw-M4x16 SKB ZN, QM13220

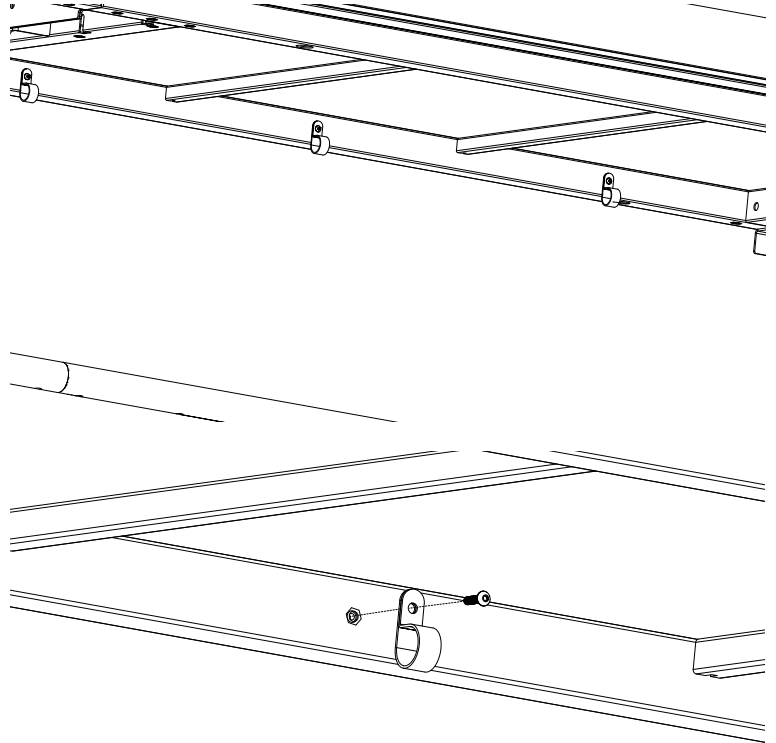
### Tools Required

2.5mm Hex Tool

 **NOTE:** Each 5-foot table frame has three threaded holes at the front and back for cable organizers clips. The 2-foot table has two holes at the front and back.

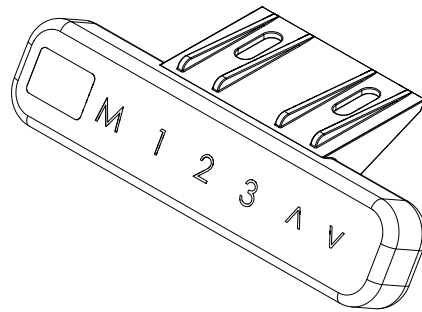
**30-1:** Open a p-clip and slide cables into it.


**30-2:** Place a M4x16 SKB screw through the p-clip and into the threaded hole in the frame. Fully tighten the screw with a 2.5mm hex tool.




## Lift Keypad Control

- **Up** long press on up arrow
- **Down** long press on down arrow
- **Presets** set desired height, press M then 1, 2, or 3
- **Reset** rES appears on screen, press down arrow until display changes




 **NOTE:** The system has Anti-Collision Sensitivity built in to stop the system from moving if it hits something on the way down or up.

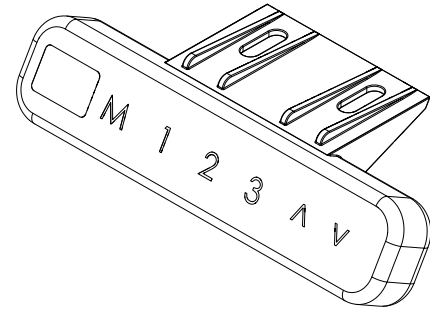
## Step 30: Continued - Lift System Controller Programming

 **CAUTION:** If someone leans on the keypad and happens to touch the applicable keys together by chance, the system will reprogram and then not function with the incorrect number of lifting columns attached.

### To Program a 3 port Control Box to 2 port

 **NOTE:** You will need to use the appropriate extension cables that came with the frame to connect the proper number of lifting columns to the controllers to perform the above processes to program the controllers.

 **NOTE:** Disconnect the communication cable between the two controllers.



- 19-1: Keypad must be plugged into the 3 port control box you wish to reprogram. Unplug the communication cable to the other controller.
- 19-2: Three lifting columns plugged into the control box to be programmed.
- 19-3: Hold the up, down, and 2 on the keypad. After a few seconds n-2 will appear on the keypad. The control box is now programmed for 2 lifting columns.

### To Program a 2 port Control Box to 3 port

- 19-4: Keypad must be plugged into the 2 port control box you wish to reprogram.
- 19-5: Two lifting columns plugged into the control box to be programmed.
- 19-6: Hold the up, down and 3 on the keypad. After a few seconds n-3 will appear on the keypad. The control box is now programmed for 3 lifting columns.

### Synchronizing the lifting columns

- 19-7: Reconnect the system cables to the appropriate lifting columns and reconnect the communication cable between the two controllers.
- 19-8: Hold the down key a few seconds after the legs are at the lowest position and have fully stop moving.


# Step 31: Bungee Grabber

## Parts Needed

- 1 - Left Pole Side Arm Assembly
- 1 - Right Pole Side Arm Assembly
- 6 - HG10003 Bungee Grabber Assemblies

## Tools Required

- #2 Phillips Screwdriver

 **NOTE:** The bungee grabbers are spring loaded internally and can spring apart. Be careful when taking them apart and installing them onto the frame.

**31-1:** Carefully remove the screws from the assembly. If the grabbers have a wire tie carefully cut and remove it.

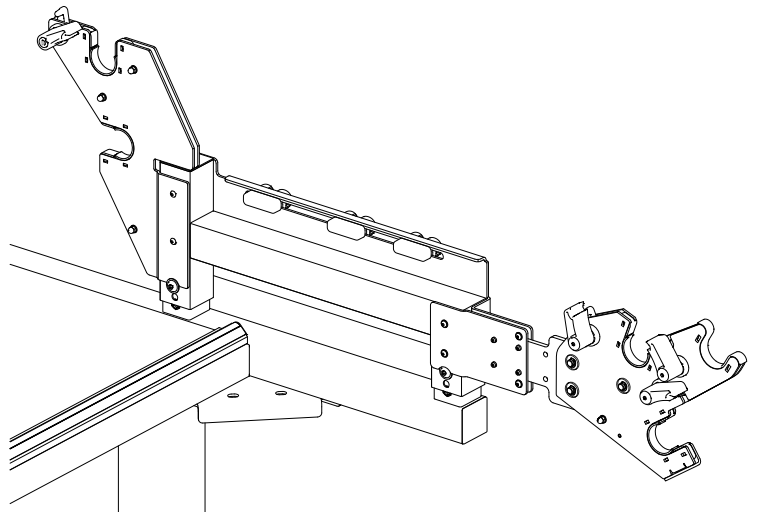
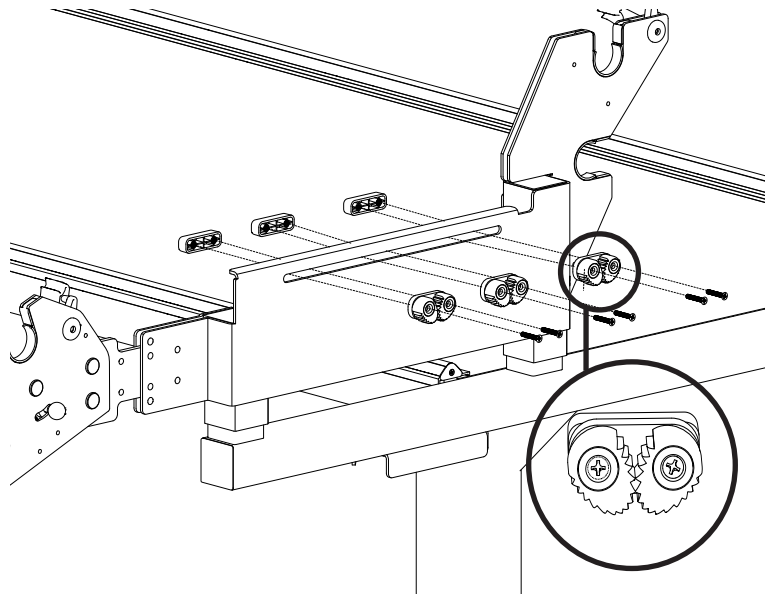
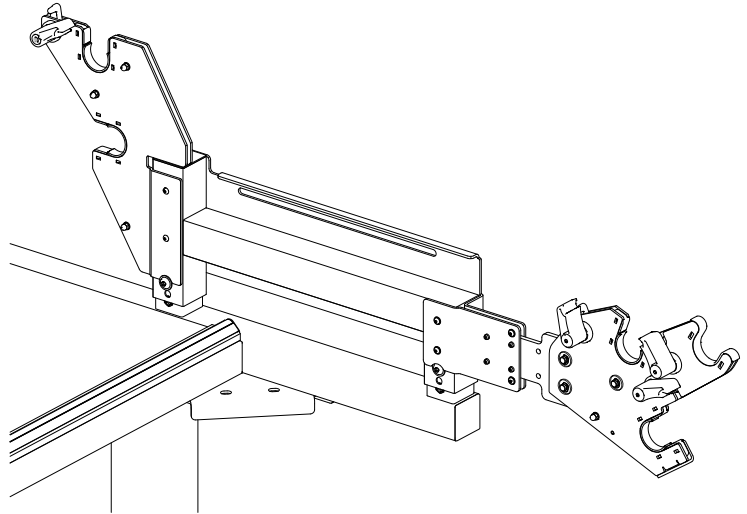
**31-2:** Place the grabbers with the wide “V” opening up on the outside of the pole side arm assembly as shown. The bottom of the left and right grabbers will be touching.

**31-3:** Insert the screw through the grabber, the pole side arm assembly, and into the threaded backing plate.

**31-4:** Tighten the screws with a #2 Phillips screwdriver.

**31-5:** Repeat the process for the other two bungee grabbers.

**31-6:** Repeat the process for the three bungee grabbers on the other side of the frame.



## Step 32: Bungee Clamp Assembly

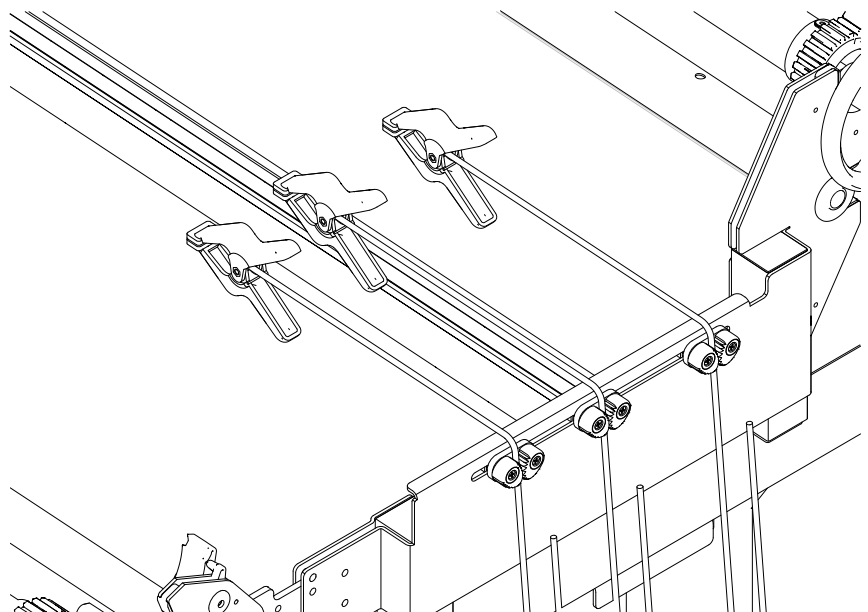
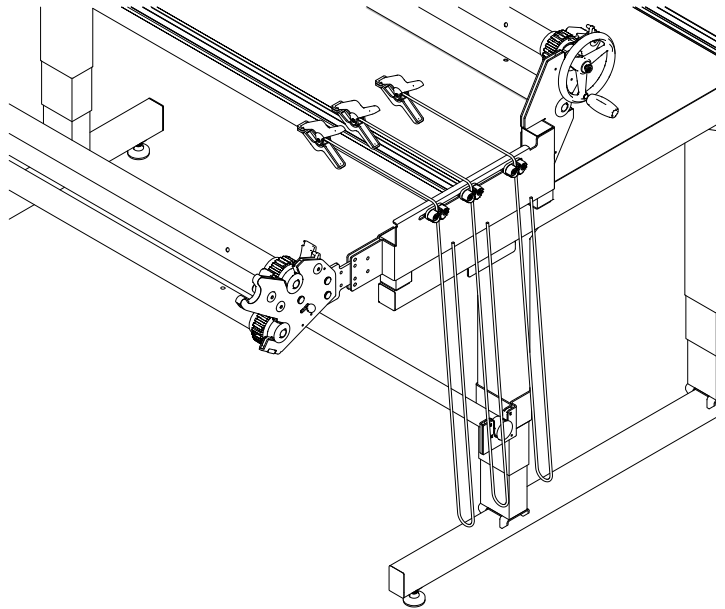
### Parts Needed

- 1 - Frame assembly
- 6 - Bungee clamps

**32-1:** Drape the bungee cord over the bracket and down into the clamp as shown.

**32-2:** Follow **Step 13-1** for the other two bungee clamps.

**32-3:** Repeat **Steps 13-1 and 13-2** for the other end of the frame.



## Step 33: Hook and Loop Strip Attachment

### Parts Needed

- 1 - quilt-top pole
- 1 - backing pole
- 1 - take-up pole
- 3 - hook and loop strips

### Tools Required

- Measuring tape or ruler (not provided)
- Scissors (not provided)

**33-1:** Prepare to attach the hook and loop strip to the quilt top pole, backing pole, and take-up pole (see Fig. 11-1), by measuring in 3-inch from each end of the pole. Peel the backing off the strip as you go and apply to all three poles, starting at the 3-inch mark and ending at the opposite 3-inch mark.



**NOTE:** Take care to stick the hook and loop on straight. This step will determine how well your quilts load in the future. For best results use the holes in the pole as a guide when aligning the hook and loop strip.



**NOTE:** Once the hook and loop strip has been adhered from one end of the poles to the other, it can be cut where the poles meet at each pole coupler if desired.

## Step 34: Adjusting Pole Side Arm Position 1

This frame allows you to choose the loading method you prefer. You can choose which configuration you want to use for each quilt. But keep in mind, you cannot change loading configuration once you have started quilting. Position 1 provides a visual reminder of the actual quilting space and easy access to the bobbin area for oiling and bobbin changing. Position 2 is an option that allows for easy use of longer or larger templates or rulers.

### Position 1

Start by putting the poles in the correct position for Position 1, high position.

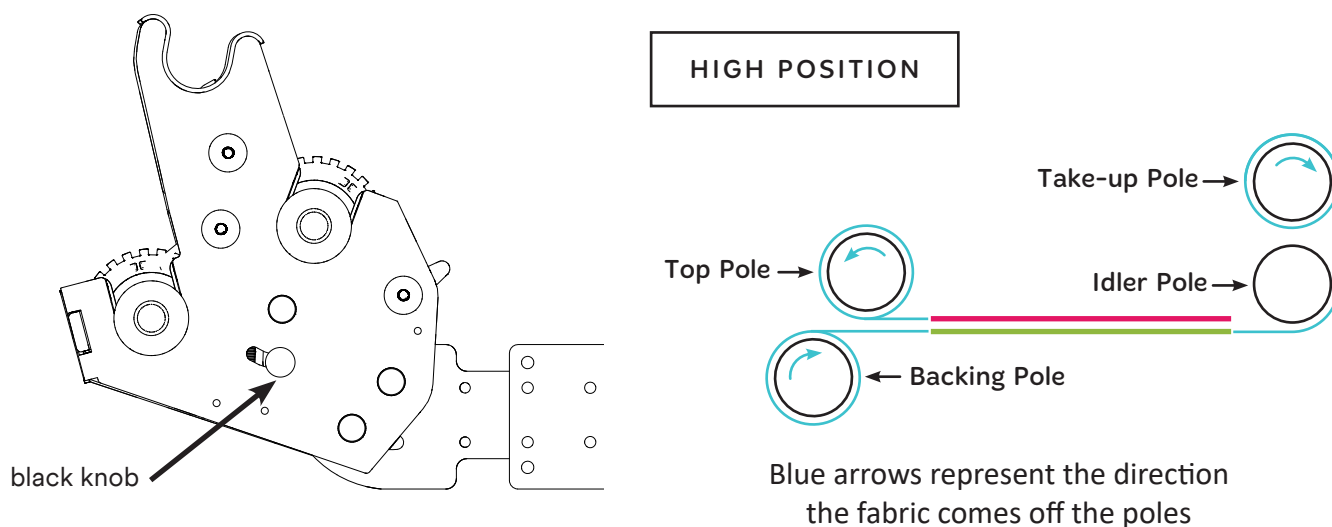
Grasp the pole side arm assembly (not the pole) under the bottom at the front. With your hand under the pole side arm assembly, raise the bracket until it clicks into the upper position. From the bottom position the black knob will automatically ratchet into the top position without moving the knob. Do this on both the left and right end of the frame.

The pole closest to you is for loading the backing fabric. Use the ratchet stop closest to the front of the frame for the backing pole.

The next pole away from you towards the center of the frame, is for loading the quilt top. You will use the middle ratchet-stop on the top pole for this type of loading.

Once you have the poles in the correct position, disengage the ratchet-stops and completely unroll the leaders from each pole. Engage the correct ratchet-stop and roll up the leader. The ratchet stop will only let you wind in the correct direction and will ensure the leader is wrapped correctly on each pole. For Position 1, the leaders should be wrapped around the poles so that they come over the tops of the poles and fall between the poles.

Always engage the ratchet stop when loading your quilt so that you can be assured you are winding in the correct direction.



### Position 1 - High position

## Step 34: Adjusting Side Arm Pole Bracket Position 2

### Position 2

Start by putting the poles in the correct position for Position 2, low position.

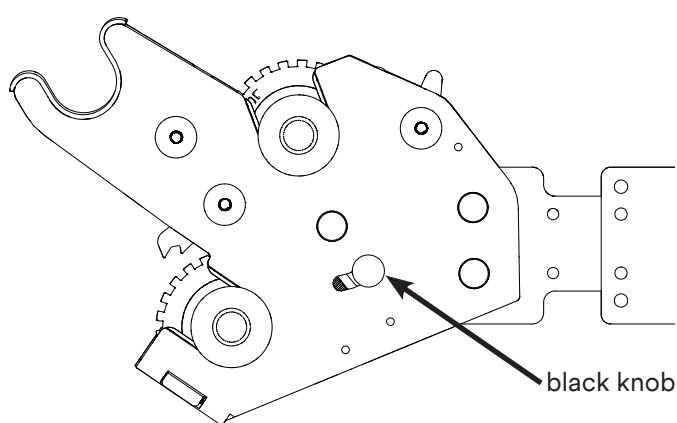
Grasp the pole side arm assembly (not the pole) under the bottom at the front. While holding the assembly, lift it slightly and pull the black knob towards you until it disengages. Lower the assembly into the lower position. Do this on both the left and right end of the frame.

The bottom pole will be the pole on which you load the quilt top. This pole will use the ratchet stop closest to the front.

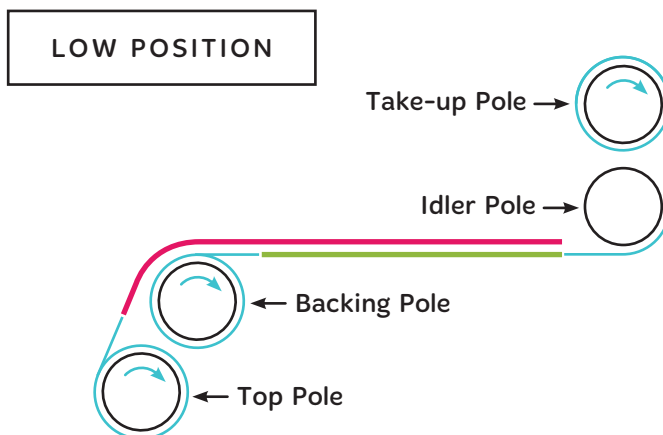
The top pole will be the pole you use for the backing. This pole will use the ratchet stop third back from the front for Position 2.

Once you have the poles in the correct position, disengage the ratchet stops and completely unroll the leaders from each pole. Engage the correct ratchet stop and roll up the leader. The ratchet stop will only let you wind in the correct direction and will ensure the leader is wrapped correctly on each pole. For Position 2, the leaders should be wrapped around the poles so that they come over the tops of the poles and both fall rear of their respective pole.

Always engage the ratchet stop when loading your quilt so that you can be assured you are winding in the correct direction.



**Position 2 - Low position**



Blue arrows represent the direction the fabric comes off the poles

## Step 35: Attach Leaders

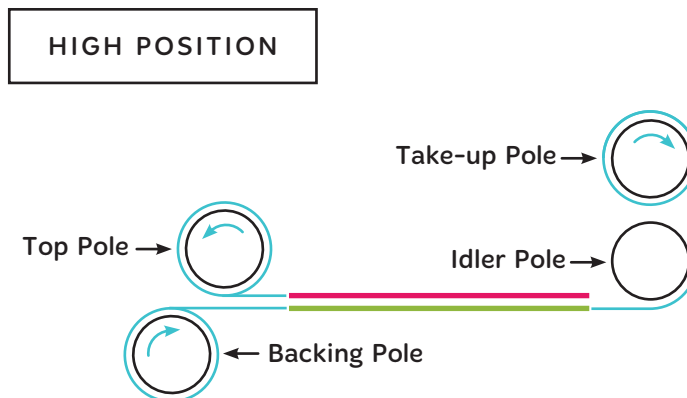
### Parts Needed

- 1- Frame assembly with hook and loop strip applied to poles
- 3 - Leaders (for 10-foot frame, 12-foot frame, or 15-foot frame)

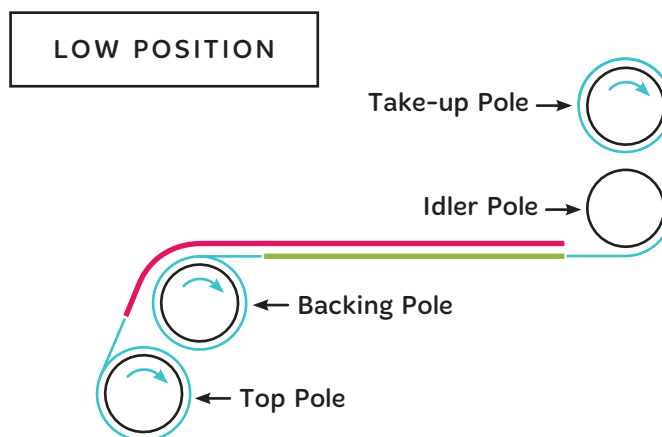
**35-1:** Mark the center of the leaders on both the hook and loop strip and the hemmed edge. Mark the center of the quilt-top pole, backing pole and take-up pole with a permanent marker.

**35-2:** Beginning in the center, align the marks and attach the leaders to the hook and loop strip on backing pole and the quilt top pole so the marked sides of the leaders hang to the center between the poles.

**35-3:** Beginning in the center, align the marks and attach the remaining leader so it falls to the back of the take-up pole.



Blue arrows represent the direction the fabric comes off the poles



Blue arrows represent the direction the fabric comes off the poles

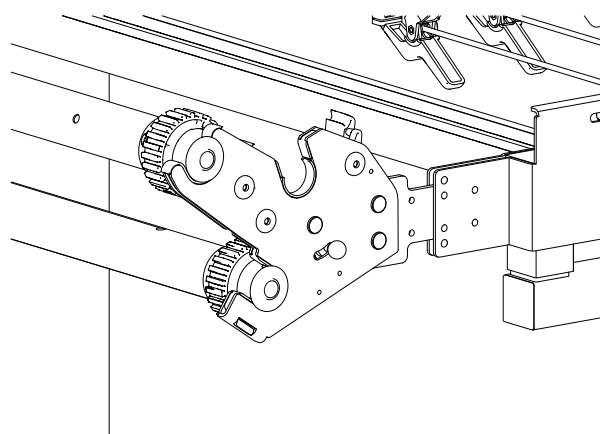
## Step 36 Using the Pole Cradles

### To use the Pole Cradles when loading the quilt and quilt batting

1. After loading the quilt backing and the quilt top, release the ratchets on the quilt-top pole.
2. Pull one side of the quilt-top pole out of the pole bracket and lay it in the corresponding pole cradle. Repeat on the other side of the quilt frame.
3. Lay the quilt batting on the quilt backing, align it with the top of the backing, and smooth it in place.
4. Unroll enough of the quilt top to reach the top of the quilt backing and batting.
5. Return both sides of the quilt-top pole to the pole brackets and put the ratchets back in place.
6. Proceed with stitching the plumb line, aligning the quilt top with the plumb line, basting the top edge and sides of the quilt top and attaching the clamps.

### To use the Pole Cradles when advancing the quilt

1. When you're ready to advance your quilt, release the ratchets on the poles. Advance the quilt.
2. Pull one side of the quilt-top pole out of the pole bearing and lay it in the corresponding pole cradle. Repeat on the other side of the quilt frame.
3. Reach under the quilt top to smooth and straighten the batting.
4. Return both sides of the quilt-top pole to the pole brackets and put the ratchets back in place.
5. Proceed with smoothing and tensioning the quilt top, basting down the sides of the quilt and attaching the clamps.



Pole Cradle Position

# Troubleshooting

## Track Support Joint Problems: Bumps or Unevenness

### Issue:

At times the machine user feels what they describe as a bump or restriction that prevents them from quilting smoothly as they go over the frame table joints.

### Background Information:

The track supports used on the frame are aluminum extrusions made with special dies. The aluminum is pushed and pulled through the dies during the extrusion process. This can cause slight variations between batches. Very long extruded pieces are later cut to make shorter pieces used in the frame system. Extrusions are cut to 4 foot, and 2 foot long pieces. Once the extrusion is cut, it is possible that it will be mated with another extrusion that is slightly different. The difference is typically less than the thickness of a sheet of paper.

The important surface of the track support is where the machine carriage wheels roll. A track support coupler makes the joint between two track supports stronger and aids in alignment of this important surface where the wheels make contact.

Even though the black plastic track insert covers the track support joint, it is still very important that the two track supports be as evenly aligned as possible at the joint. If the two surfaces do not match very closely, the end user will feel a bump or resistance at this point.

**Important:** It is very important that the frame table tops be even at the joints first, because they provide the foundation upon which the track supports mount.

### Uneven Track Support Joints:

If you encounter an uneven track joint with the track support coupler tightened, first try turning one track support around to see if it matches better at the joint. If this does not make any difference, try other track supports to see if they match better at the joint.

### Shimming Uneven Joints:

If after trying the above, you still have an issue with the joint not matching well enough, a kit is available to address this issue.

### Track Alignment Kit: QF00100

“Track Alignment Kit” part number is QF00100. The kit consists of 8 pieces of foil tape with an adhesive and paper backing, and an instruction sheet. One kit is included with this frame.

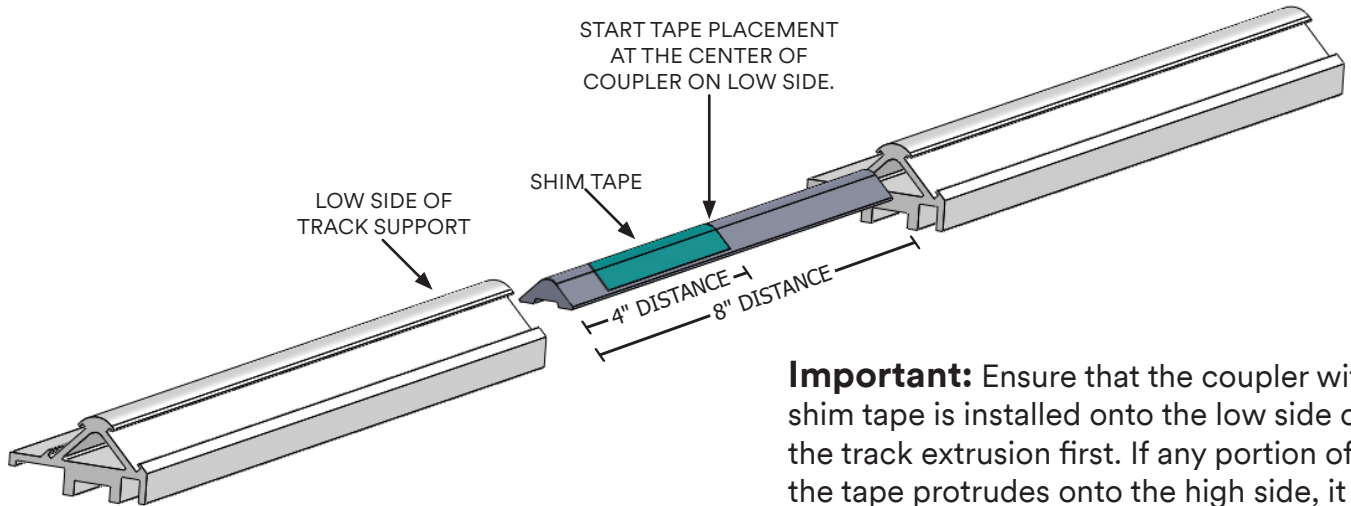
### Applying Foil Tape:

Foil tape can be used on the top of the track support coupler on the side that is lower. This will raise the lower track support to make it level with the other track support. A piece of the supplied foil tape is placed over the top of the track support coupler on the side that is low, as shown in the drawing on the next page. It is important to begin the tape placement at the center of the coupler.

**Important:** Ensure that the coupler with shim tape is installed onto the low side of the track extrusion first. If any portion of the tape protrudes onto the high side, it will make the high side even higher, defeating the purpose of the shim tape.

Usually only one thickness of foil tape will be needed to eliminate the issue. On the rare occasion where the mismatch is more extreme, two thicknesses of tape may be required to make both track supports even at the joint. For this reason eight pieces of foil tape are included in the kit, two for each joint, even though only one piece may be needed.

## Track Support Joint Problems: Bumps or Unevenness - Continued



**Important:** Ensure that the coupler with shim tape is installed onto the low side of the track extrusion first. If any portion of the tape protrudes onto the high side, it will make the high side even higher, defeating the purpose of the shim tape.