

*Kinetic*TM

Two Foot Extension

Assembly Instructions

Model BLKF-EXT



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Kinetic Two-Foot Extension Assembly Instructions

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Assembly Instructions

Allows the Kinetic Frame to be set up at 7-foot or 12-foot lengths.



NOTE: When setting up in the 7-foot length the BLQF-SK shim kit is needed. The BLQF-SK is included with the Kinetic Frame.

What's Included

Your Baby Lock 2-foot extension for Kinetic Frame is delivered in one box. Upon opening, please check immediately to see if you have received all items listed on page 3 of this instruction manual.

Kinetic Two-Foot Extension Parts & Hardware List

Contents

- (1) assembly instructions
- (1) table section QF05320-300, comes preassembled with:
 - (1) table frame, QF05320-301
 - (1) table top, QF05320-302
 - (2) track supports, QF05320-02
 - (4) screw, M6x12mm, QF09318-303
- (4) track, black, 12-foot, QF09318-04
- (2) table splice, QF05300-05
- (5) 2-foot pole section, QF05320-701
- (5) pole coupler, QF09318-702
- (2) coupler, QF09318-03
- (10) steel snap button/locking clip, QF09318-714
- (12) screw, M5x8mm, QF09318-304
- (12) screw, M8x16, QF09318-07
- (3) hook & loop tape, 2-foot, QF10619

Kinetic Two-Foot Extension Parts & Hardware List

Table Section with
Plastic Top 2-foot (1)
QF05320-300

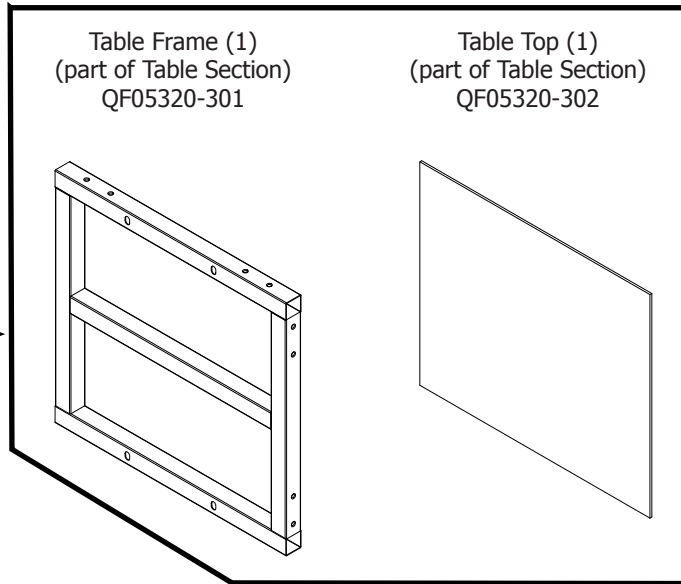
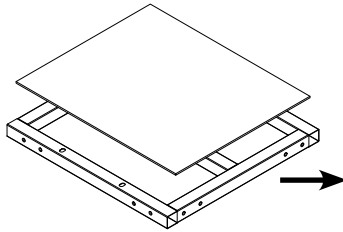
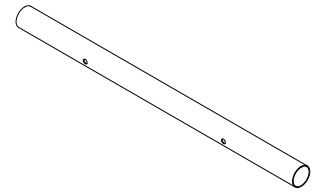


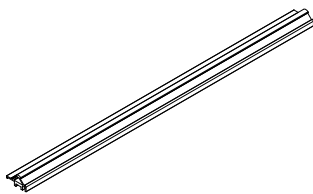
Table Frame (1)
(part of Table Section)
QF05320-301

Table Top (1)
(part of Table Section)
QF05320-302

Pole Section, 2-foot (5)
QF05320-701



Track Supports, 2-foot (2)
(part of Table Section)
QF05320-02



Track 12-foot (4)
QF09318-04

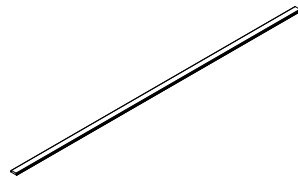
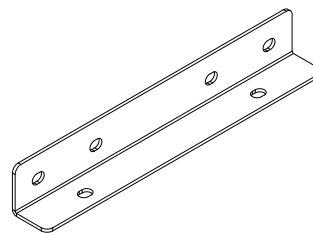
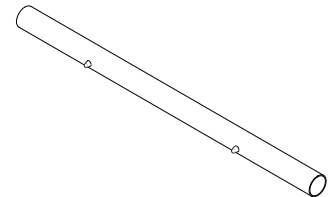


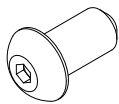
Table Splice (2)
QF05300-05



Pole Coupler (5)
QF09318-702



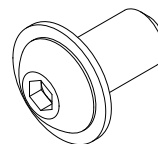
M6 x 12mm Socketed Washer
Head Cap Screw/Track
Support Screws (4)
QF09318-303



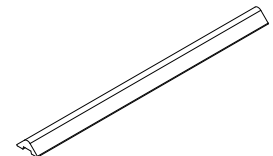
M5 x 8mm Socketed Button
Head Cap Screw/Track
Support & Coupler Screws (12)
QF09318-304



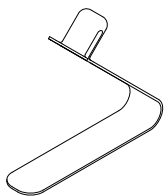
M8x16mm Socketed Button
Head Cap Screw (12)
QF09318-07



Track Support Coupler (2)
QF09318-03



Steel Snap Button/Locking Clip (10)
(part of Pole Coupler)
QF09318-714



Step 1

Remove Track Supports

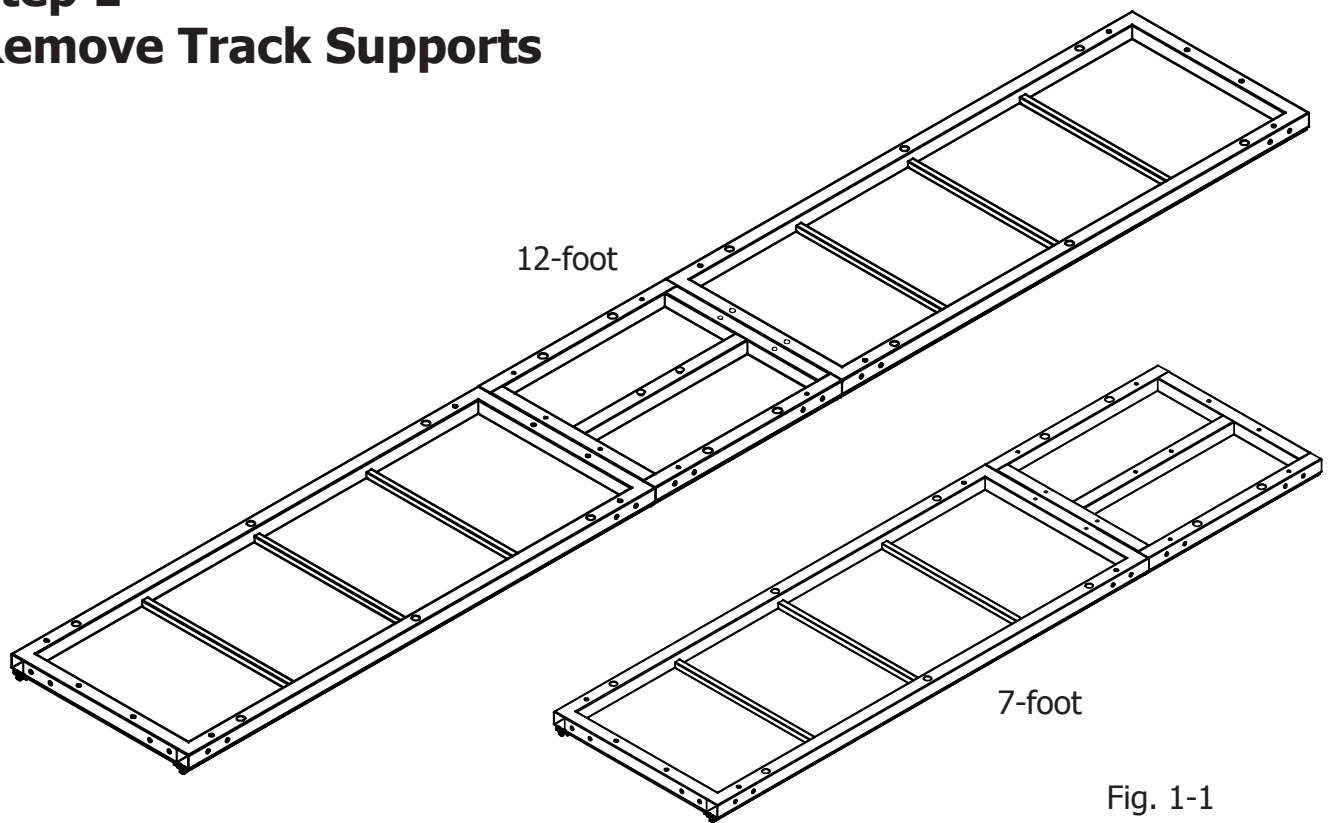



Fig. 1-1

Parts Needed


- (1) two-foot table section
(from two-foot extension)
- (1 or 2) five-foot table sections
(from Kinetic Frame, 1 for seven-foot frame and 2 for twelve-foot frame)

Tools Required

- 4mm Allen wrench
(provided with Kinetic Frame)

 **NOTE:** The track support finish could be damaged if not protected or if placed onto a rough surface. Handle with care.

1-1: Place the table sections with the track supports face down onto a protective surface. (Fig. 1-1)

 **NOTE:** When removing the track supports, keep them in the same position and orientation to ensure perfect alignment when they are replaced.

1-2: Using the 4mm Allen wrench remove the two screws from each 2 foot track support and the three screws from each 5 foot track support and set the track supports aside in a safe place (Fig. 1-2). Leave the table sections face down for **Step 2-1**.

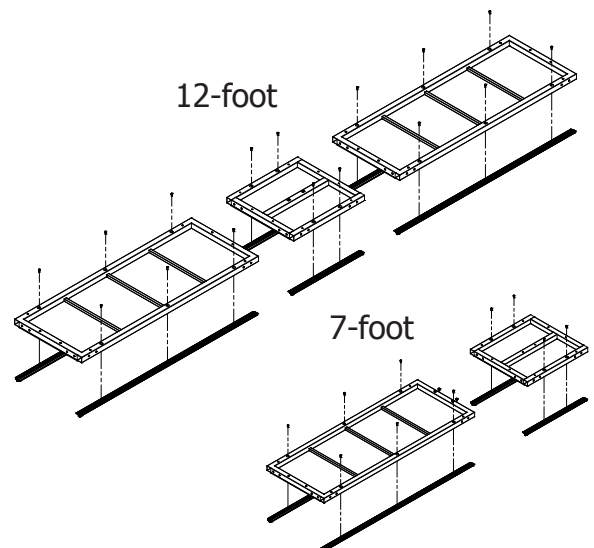


Fig. 1-2

Step 2 Table Assembly

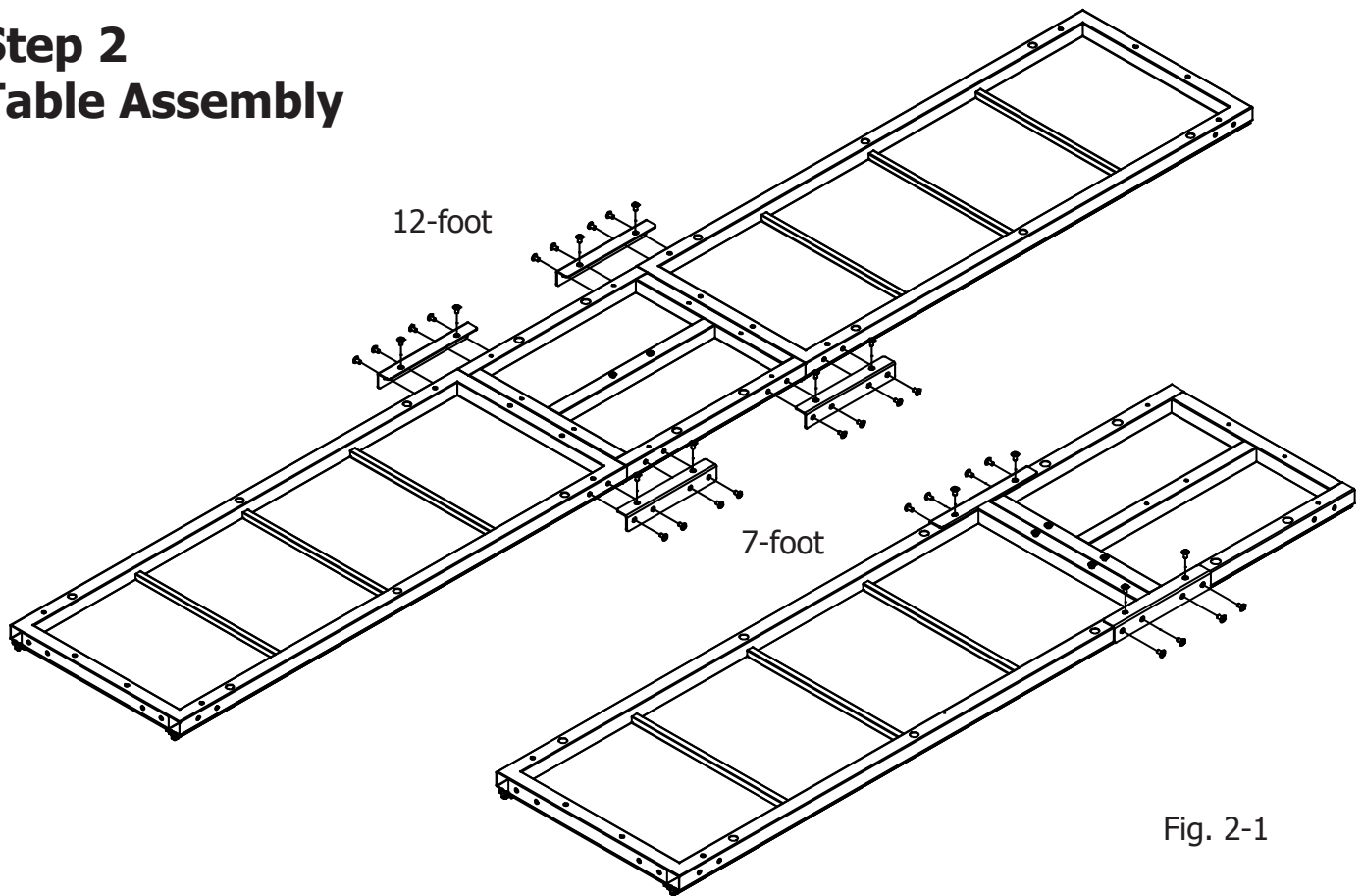


Fig. 2-1

Parts Needed

- (1) two-foot table section
(from two-foot extension)
- (1 or 2) five foot table section (from Kinetic Frame, 1 for seven-foot frame and 2 for twelve-foot frame)
- (2) table splice (from two-foot extension)
- (2) table splice (from Kinetic Frame for twelve-foot frame)
- (12) M8x16mm socketed button head cap screw QF09318-07 (from two-foot extension for seven-foot or twelve-foot frame)
- (12) M8x16mm socketed button head cap screw QF09318-07 (from Kinetic Frame for twelve-foot frame)

Tools Required

- 5mm Allen wrench
(provided with Kinetic Frame)

2-1: With the table sections face down (large round screw holes for track supports up), slide the table sections together end to end, as close as possible. Place a table splice onto the sections as shown in **Fig. 2-1**, lining up the holes in the splice with those in the sections. Repeat with remaining table splice (slices) on the table sections.

2-2: Place four (4) M8x16mm QF09318-07 through the side of each table splice and finger tighten them into the table sections.

2-3: Finger-tighten two (2) M8x16mm QF09318-07 through the top of each table splice.

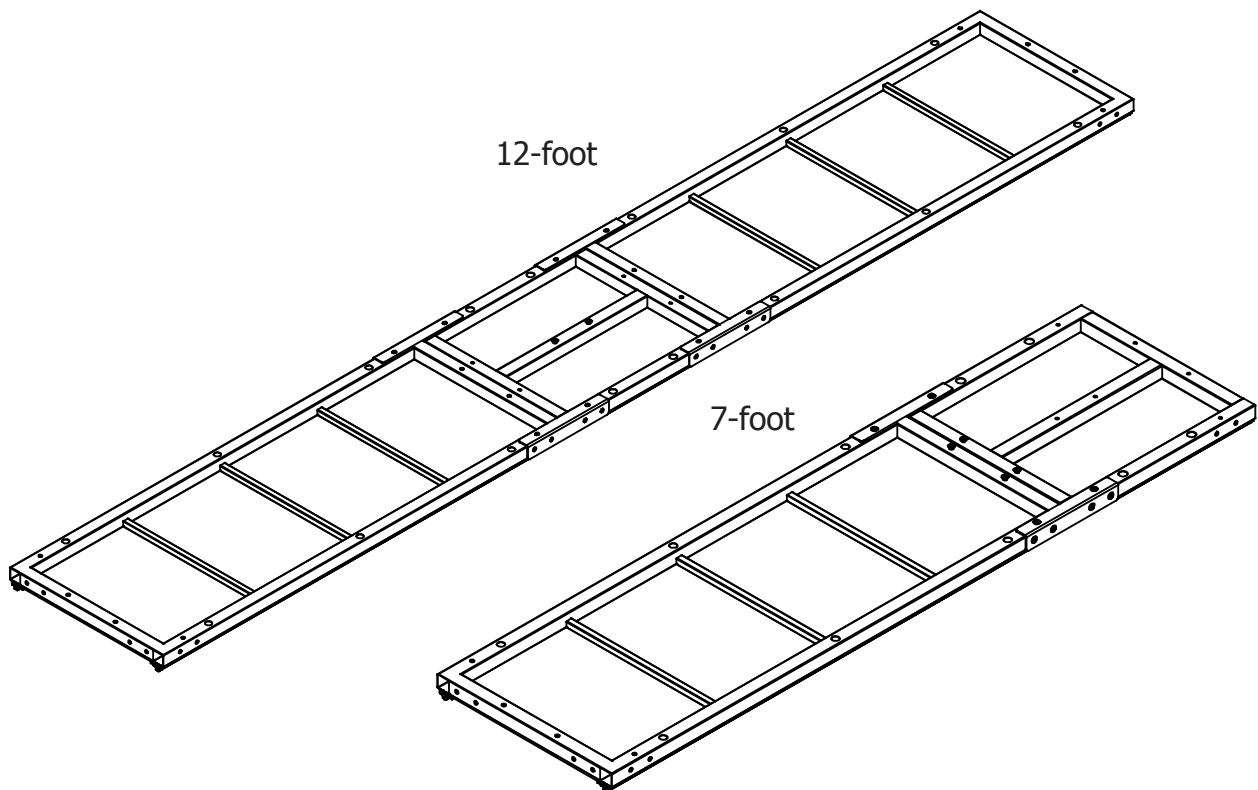
Step 2

Table Assembly (continued)

2-4: Pull the table sections as close together as possible to remove gap.

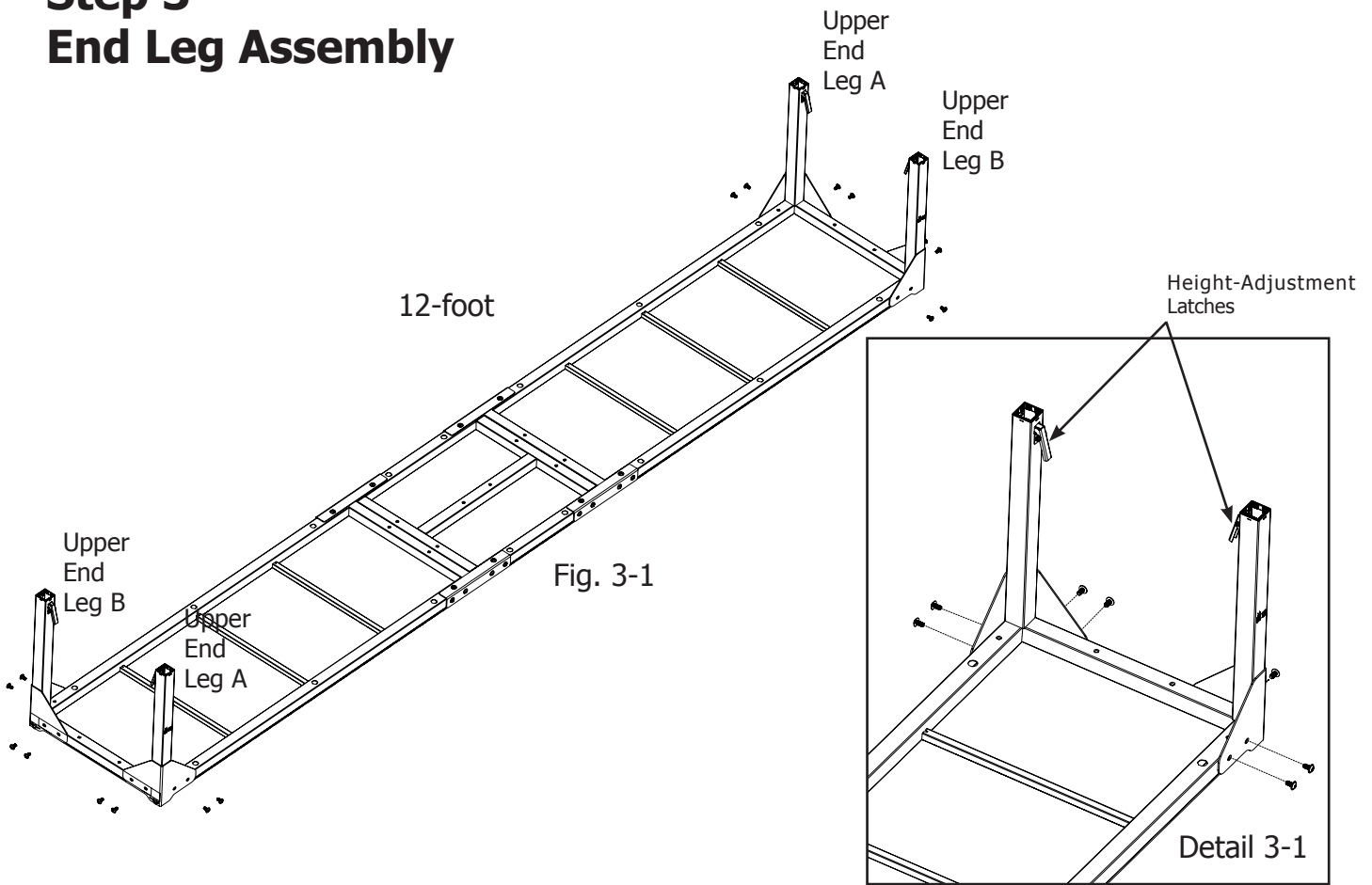
2-5: Using the 5mm Allen wrench, tighten the four side screws on each table splice, until the splice touches the side of the table section, and then loosen the screws $\frac{1}{2}$ turn.

2-6: Using the 5mm Allen wrench, tighten fully the two (2) top screws on each table splice. Finally, fully tighten the four (4) side screws on each table splice.



Step 3

End Leg Assembly



Parts Needed

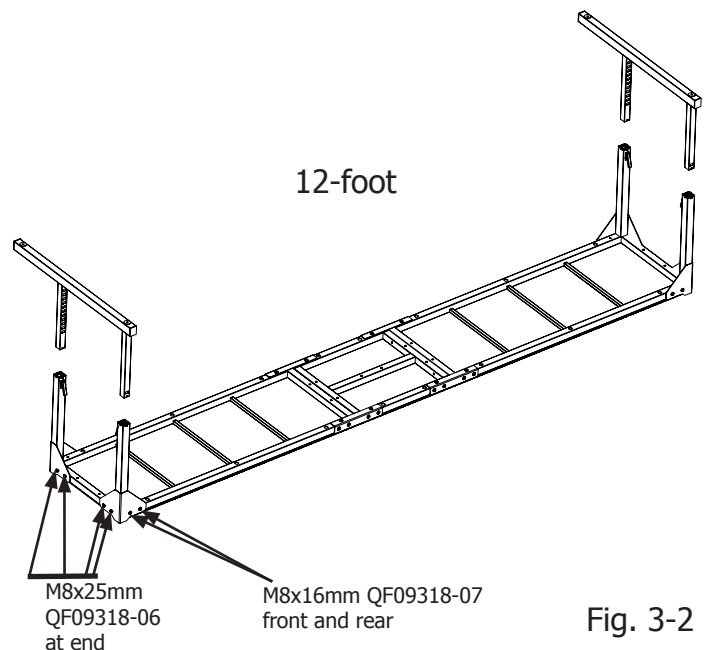
- (1) table assembly (from two-foot extension and Kinetic Frame)
- (2) upper end leg A (from Kinetic Frame)
- (2) upper end leg B (from Kinetic Frame)
- (2) lower end leg (from Kinetic Frame)
- (4) leveling glide (from Kinetic Frame)
- (8) M8x16mm socketed button head cap screw QF09318-07 (from Kinetic Frame)
- (8) M8x25mm socketed button head cap screw QF09318-06 (from Kinetic Frame)

Tools Required

5mm Allen wrench
(provided with Kinetic Frame)

3-1: With the table on the protective surface, still facing down, position the upper end legs A & B so the height adjustment holes face each other across the short end of the table.
(See **Fig. 3-1** and **Detail 3.1.**)

3-2: Attach each upper end leg to the table with two (2) M8x16mm screws through the upper corner leg brackets at front or rear and with two (2) M8x24mm at the end. Lightly tighten for now with the 5mm Allen wrench.



Step 3 End Leg Assembly (continued)

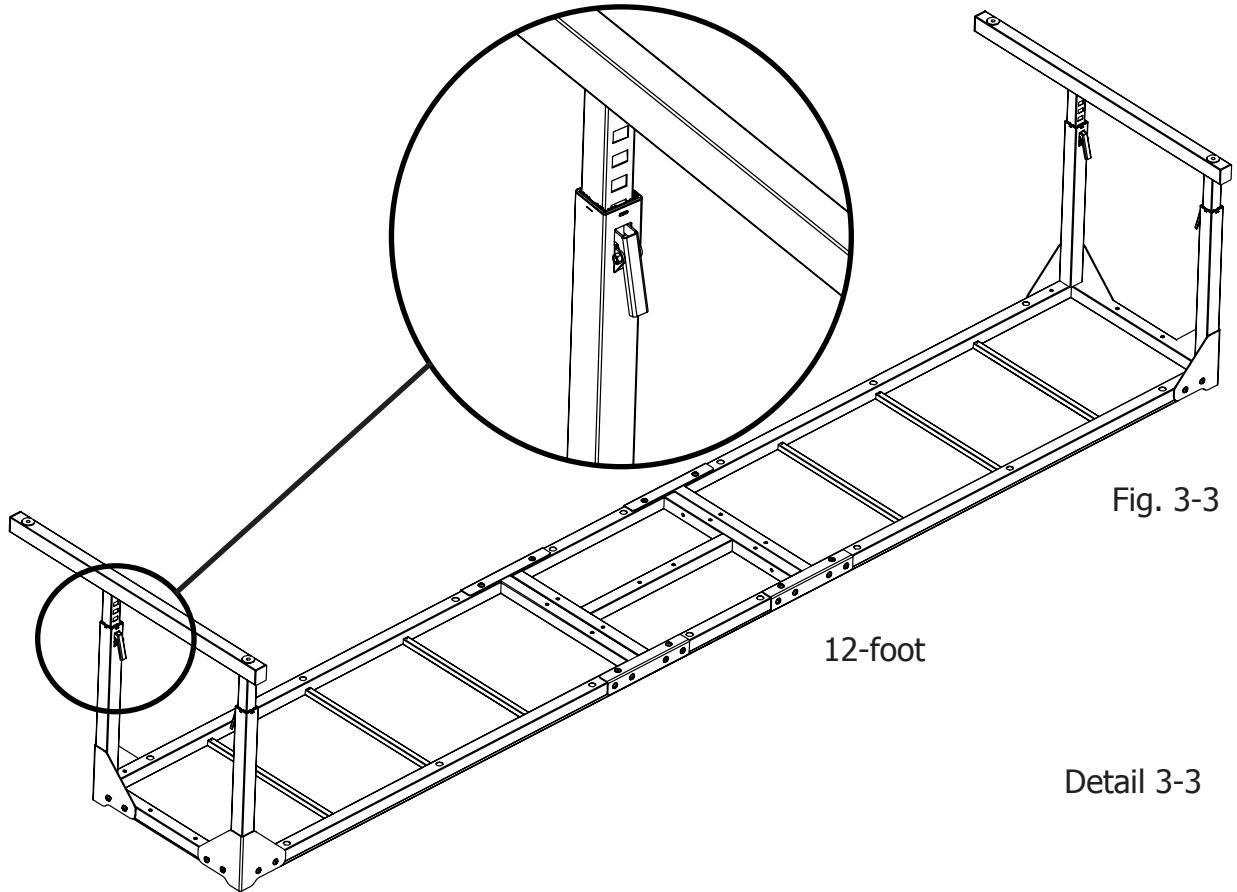


Fig. 3-3

Detail 3-3

3-3: Slide one (1) lower corner leg onto the two (2) upper corner legs on each end of the frame as shown in **Fig. 3-2** on the previous page and **Fig. 3-3**. Choose the preferred height of the frame based on the table in **Fig. 3-4**.

Ten notches showing	44-inch floor to quilt plane
Nine notches showing	43-inch floor to quilt plane
Eight notches showing	42-inch floor to quilt plane
Seven notches showing	41-inch floor to quilt plane
Six notches showing	40-inch floor to quilt plane
Five notches showing	39-inch floor to quilt plane
Four notches showing	38-inch floor to quilt plane
Three notches showing	37-inch floor to quilt plane
Two notches showing	36-inch floor to quilt plane
One notches showing	35-inch floor to quilt plane
In first notch up	34-inch floor to quilt plane
Bottom	33-inch floor to quilt plane

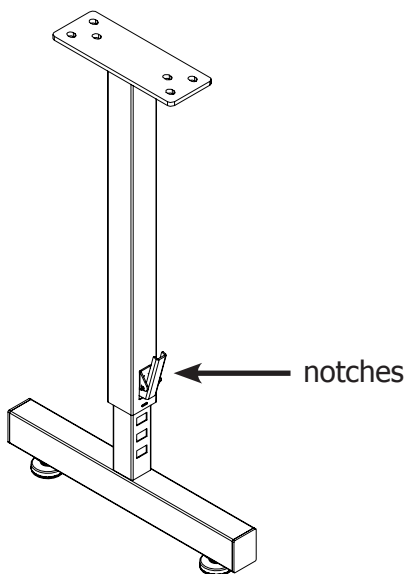


Fig. 3-4
Table of Heights

Step 3 End Leg Assembly (continued)

3-4: Thread a leveling glide into each end of the corner leg assemblies, leaving about 1/2-inch of the threads exposed to make it easier to level the frame later. (**Fig. 3-5** and **Fig. 3-6**)

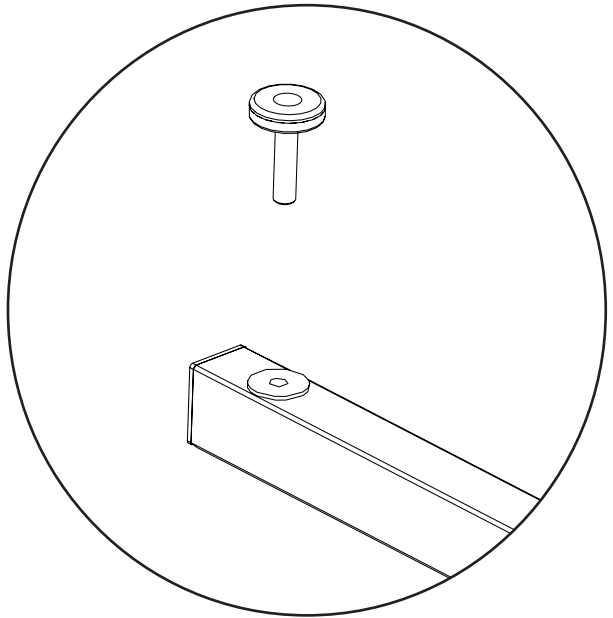


Fig. 3-5

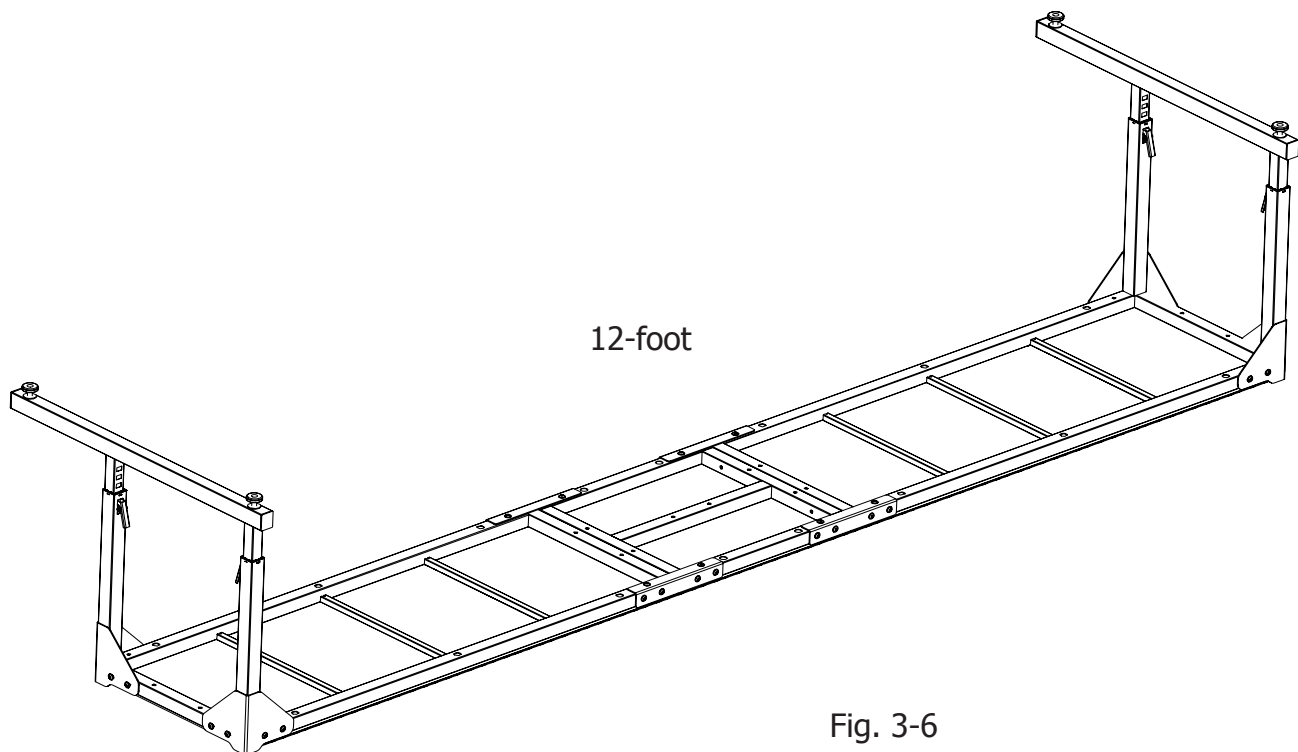
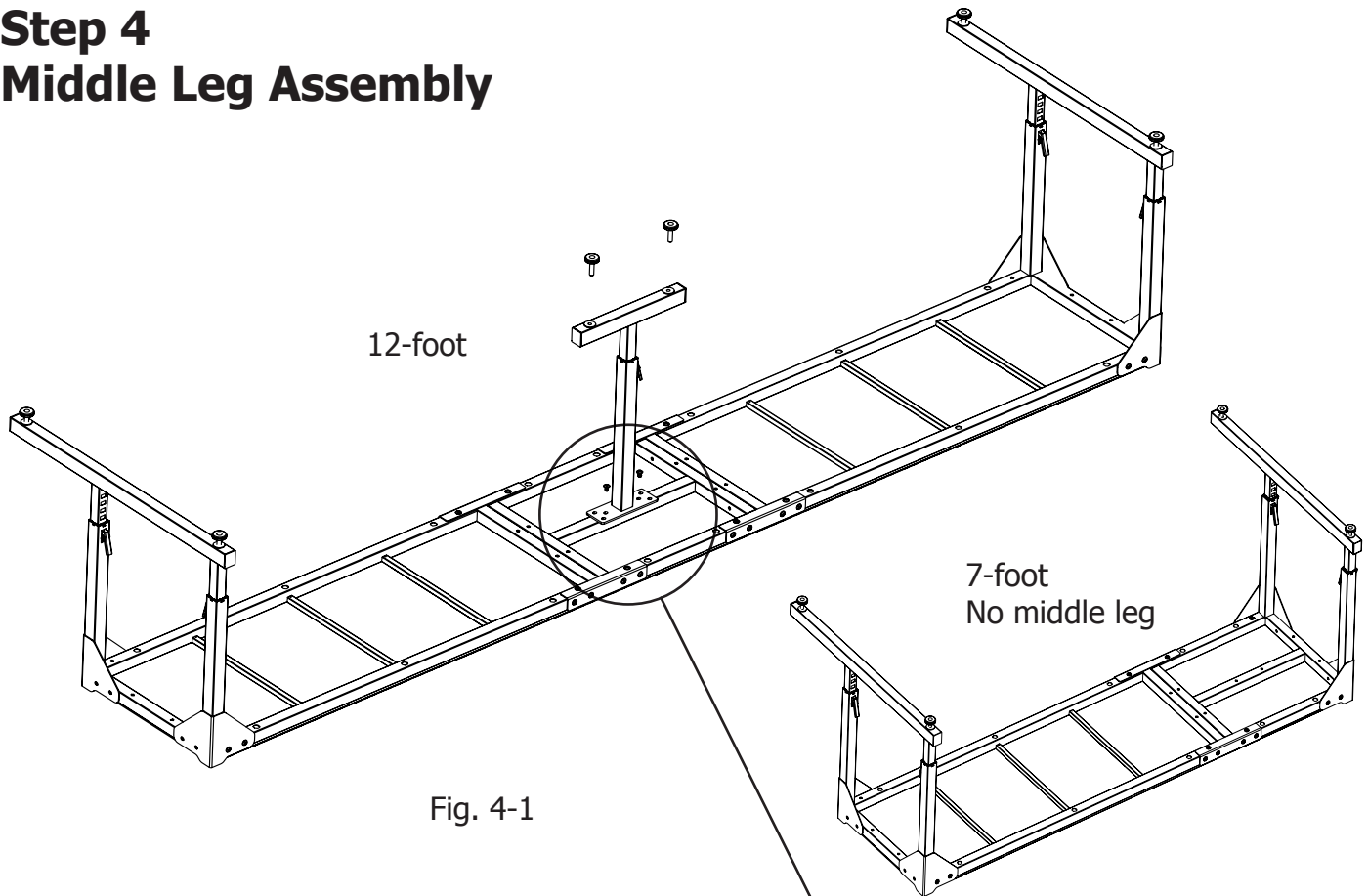


Fig. 3-6

Step 4 Middle Leg Assembly



Parts Needed

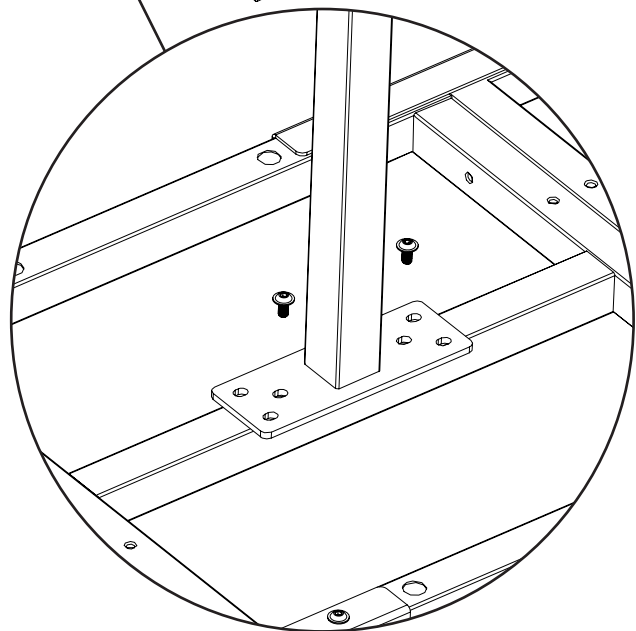
- (1) table assembly (from two-foot extension and Kinetic Frame)
- (1) upper middle leg (from Kinetic Frame)
- (1) lower middle leg (from Kinetic Frame)
- (2) M8x16mm socketed button head cap screw QF09318-07 (from Kinetic Frame)
- (2) leveling glide (from Kinetic Frame)

Tools Required

- 5mm Allen wrench
(provided with Kinetic Frame)

4-1: Place the upper middle leg on the two-foot extension at the center of the table assembly with the mounting plate oriented left to right. Thread an M8x16mm QF09318-07 into the middle hole at each side of the mounting plate. (**Fig. 4-1** and **Detail 4-1**) Fully tighten each screw with the 5mm Allen wrench.

4-2: Slide the lower middle leg onto the upper middle leg at the same height setting as the corner legs.



Step 4 Middle Leg Assembly (continued)

4-3: Thread a leveling glide into each end of the middle leg assembly, leaving about 1/2-inch of the threads exposed to make it easier to level the frame later. (**Fig. 4-3**)

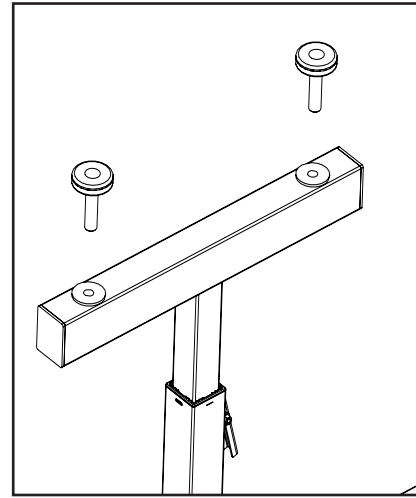
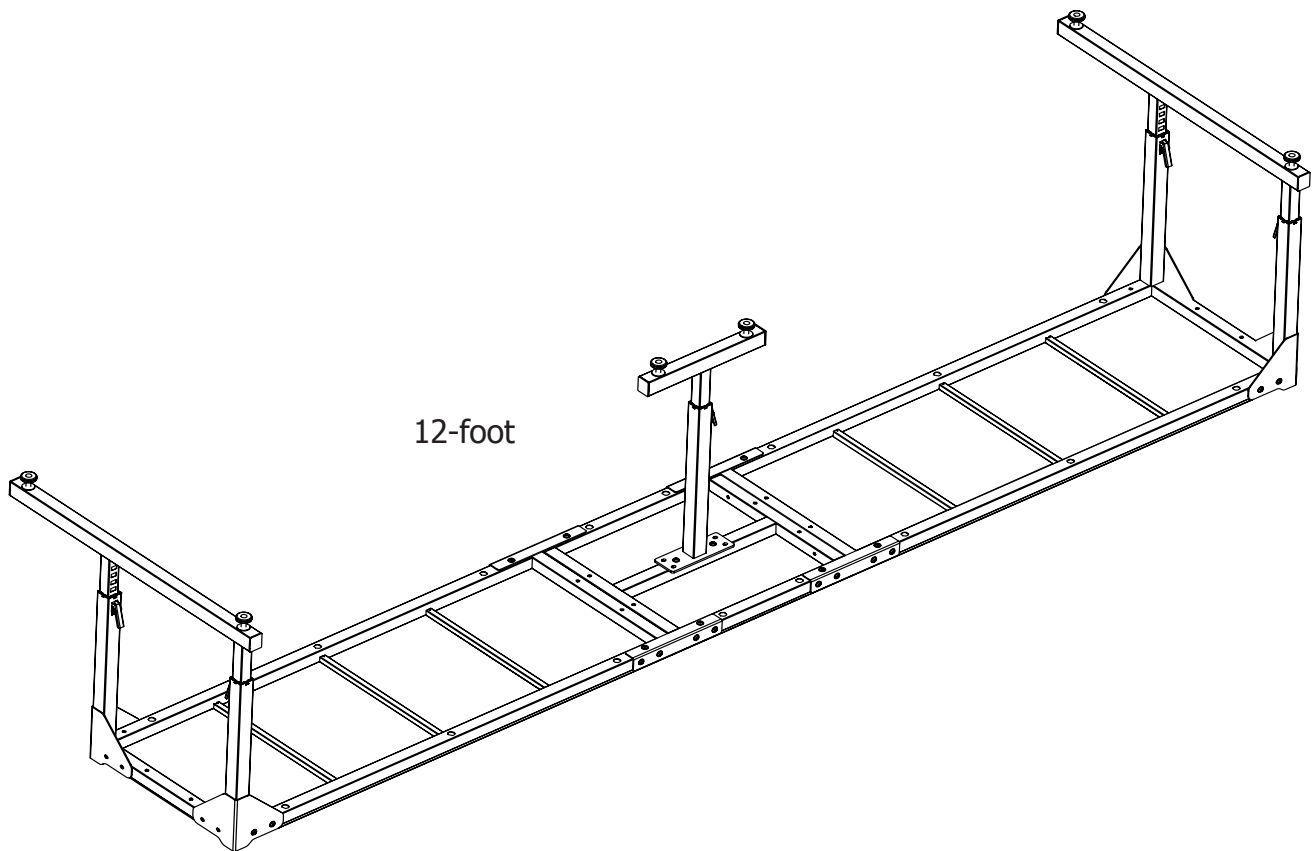


Fig. 4-3



Step 5 Rotate the Frame

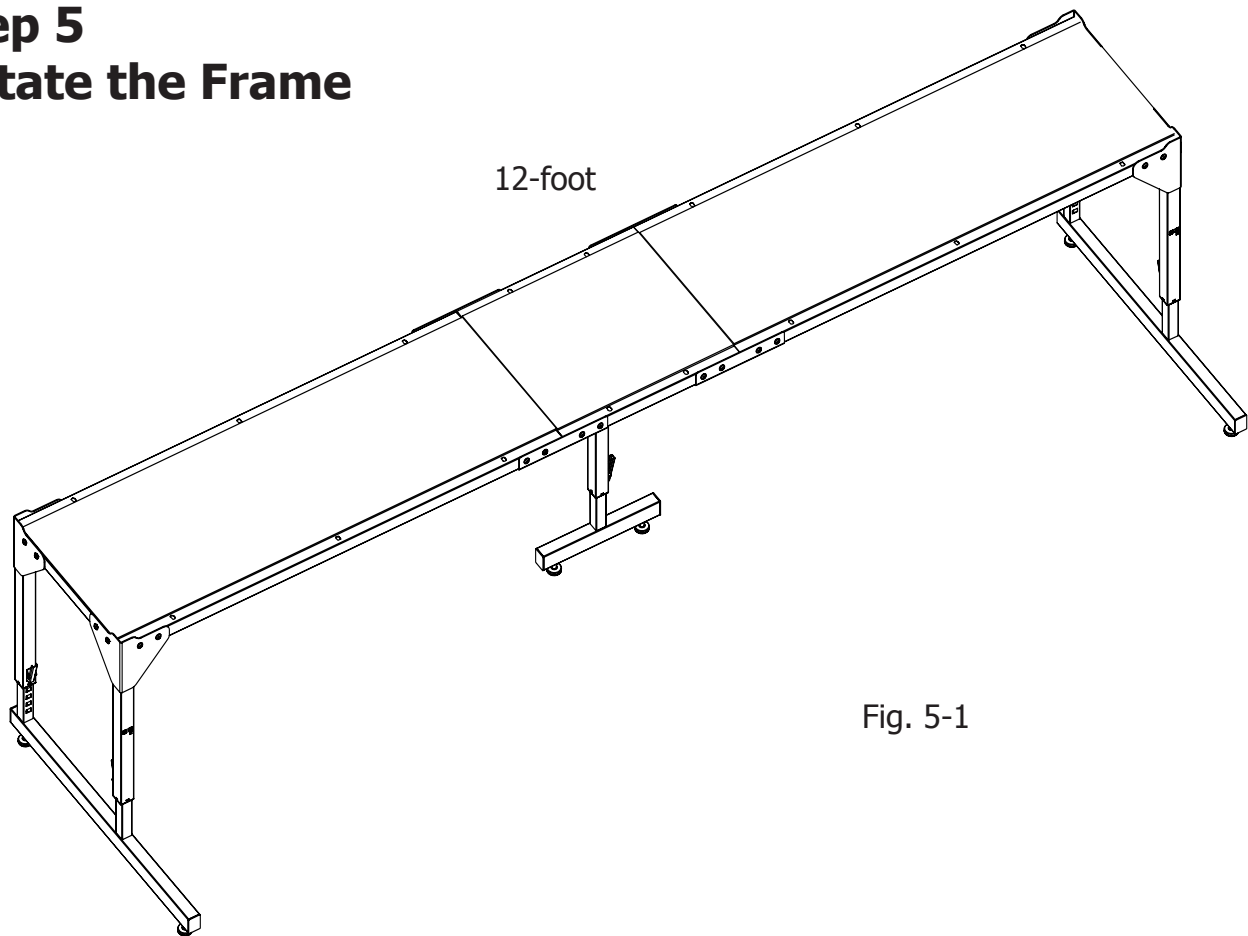


Fig. 5-1

Parts Needed

(1) frame assembly (from two-foot extension and Kinetic Frame)

Tools Required

helper



NOTE: The end screws have been temporarily installed and lightly tightened into the end of the frame to support the legs while uprighting it. Care should be taken with the legs until they are fully tightened. (**Fig. 5-1**)

5-1: With the help of a second person, lift the frame into an upright position.

Step 6

Support Rail Assembly

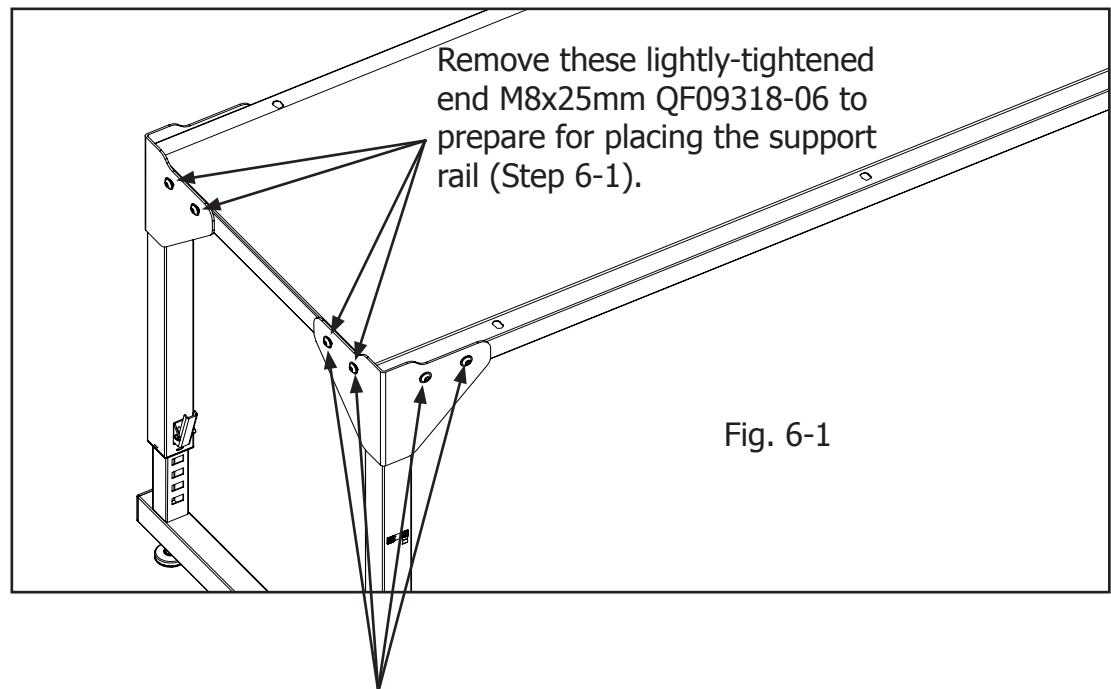
Parts Needed

- (1) frame assembly (from two-foot extension and Kinetic Frame)
- (2) support rail (from Kinetic Frame)
- (8) M8x25mm socketed button head cap screw QF09318-06, assembled earlier in step 3-2 (from Kinetic Frame)
- (1) BLQF-SK shim kit for seven-foot frame (from Kinetic Frame)

Tools Required

- 5mm Allen wrench
(provided with Kinetic Frame)

6-1: Remove the four (4) lightly-tightened M8x25mm QF09318-06 end screws from the frame, as shown in **Fig. 6-1**.



Tighten these four M8x16mm QF09318-07 at each corner in Step 6-4.

Step 6 Support Rail Assembly (continued)

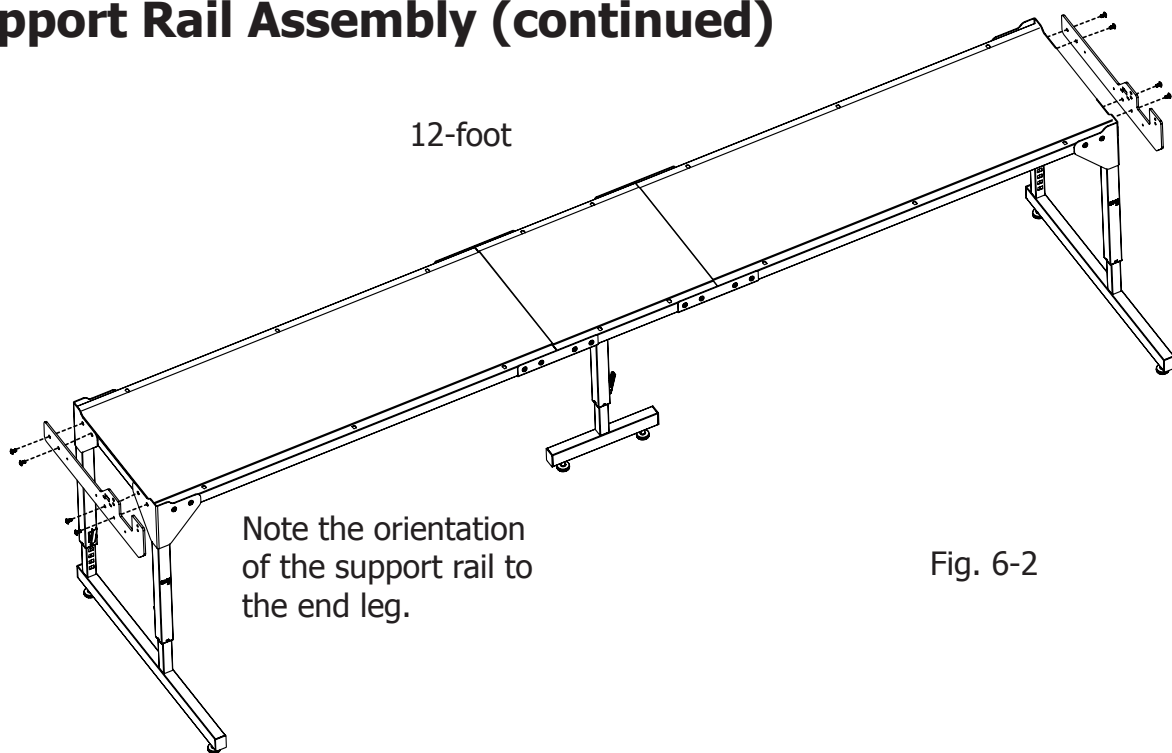


Fig. 6-2

6-2: For seven-foot frame use the BLQF-SK:

Place two of the 1/4-inch plastic spacers QF5300-119 between the support rail and the corner legs at both ends of the table, as shown in **Fig. 6-3**. Align the support rail to the end of the frame, orienting the rail as shown in **Fig. 6-3**. Replace the M8x25mm screws with the M8x30mm QF5300-116 screws from the BLQF-SK shim kit. Insert the screws through the support rail and the 1/4-inch plastic spacer and into the frame. Fully tighten the screws holding the support rail in place with the 5mm Allen wrench.

6-3: For twelve-foot frame: Align the support rail to the end of the frame, orienting the rail at both ends of the table as shown in **Fig. 6-2**. Insert the four (4) M8x25mm QF09318-06 through the support rail and into the frame and fully tighten with the 5mm Allen wrench. (**Fig. 6-2**)

6-4: At this time, fully tighten the remaining four (4) screws at the upper corner legs into the frame. (**Fig. 6-1**)

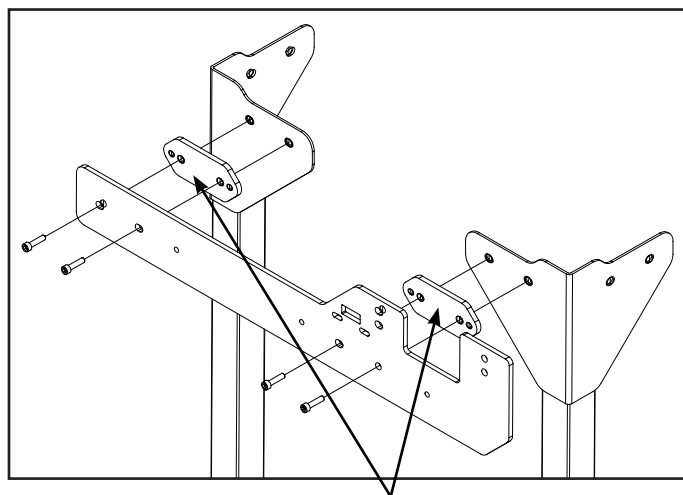


Fig. 6-3
BLQF-SK shim kit used on
7-foot frame.

Step 7

Track Assembly

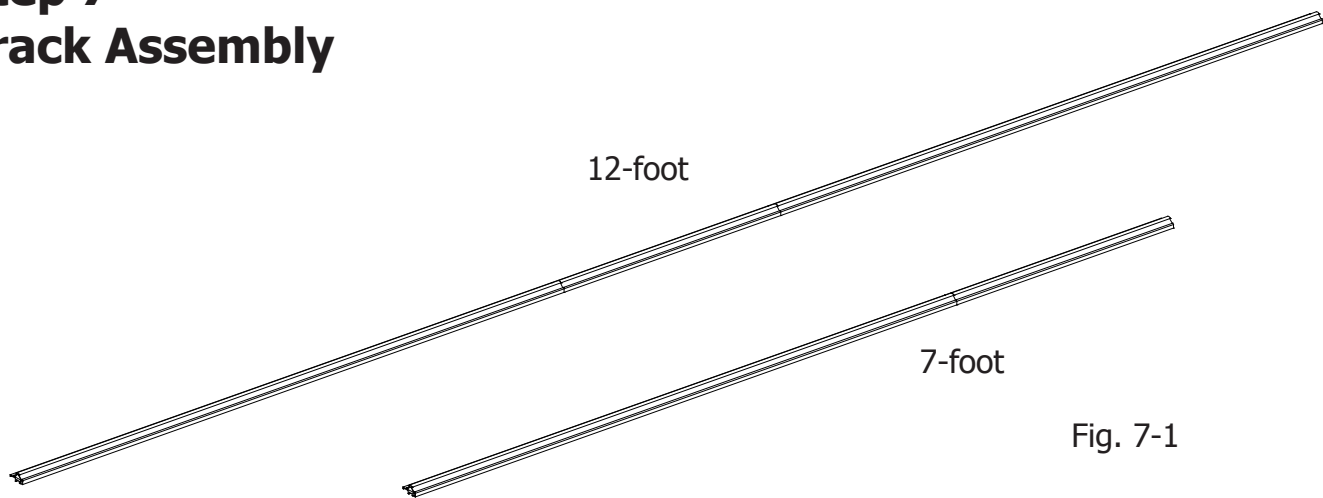


Fig. 7-1

Parts Needed

- (1) frame assembly (from two-foot extension and Kinetic Frame)
- (2 or 4) four-foot track support (from Kinetic Frame, 2 for seven-foot frame and 4 for twelve-foot frame)
- (2 or 4) track support coupler (2 from Kinetic Frame and 2 from two-foot extension for twelve-foot frame)
- (2) two-foot track supports (from two-foot extension)
- (12) M5x8mm socketed button head cap screw QF09318-304 (from Kinetic Frame)
- (10 or 16) M6x12mm socketed washer head cap screw QF09318-303 (from two-foot extension and Kinetic Frame, 10 for seven-foot frame and 16 for twelve-foot frame)
- (4) black track (tracks for seven-foot will need to be cut from the longer tracks provided)

Tools Required

- 3mm Allen wrench (provided with Kinetic Frame)
- 4mm Allen wrench (provided with Kinetic Frame)

7-1: Place the track supports, removed earlier, on the frame assembly top with the screw holes up and the wide lip of the supports facing the outside of the table.



NOTE: The two-foot extension track supports are at the center on a twelve foot assembly. (**Fig. 7-1**)

7-2: Check inside the ends of the track supports for burrs or debris and remove all foreign matter from the inside.

7-3: To prepare for joining the sections together, screw one M5x8mm QF09318-304 into the third hole from the splice end of each track support section to serve as a stop screw. (**Figs. 7-1, 7-2**) Fully tighten the screw with the 3mm Allen wrench. This will help align the coupler properly into the two track support sections when joined.

7-4: Insert a coupler into one prepared end of one track support section up to the stop screw. Thread an M5x8mm QF09318-304 into the first and second hole and lightly tighten as shown in **Fig. 7-3**. Insert the other end of the coupler into second prepared track support section. Hold the two adjoining track support sections tightly together and thread an M5x8mm QF09318-304 into the first and second hole of the second track support, align and lightly tighten. You may need to gently rock the track support to seat the coupler. Once aligned, fully tighten all M5x8mm QF09318-304. Repeat the process for the third track support section if applicable.

Step 7 Track Assembly (continued)

Place the track support upside down with the lip toward the outside of the table.

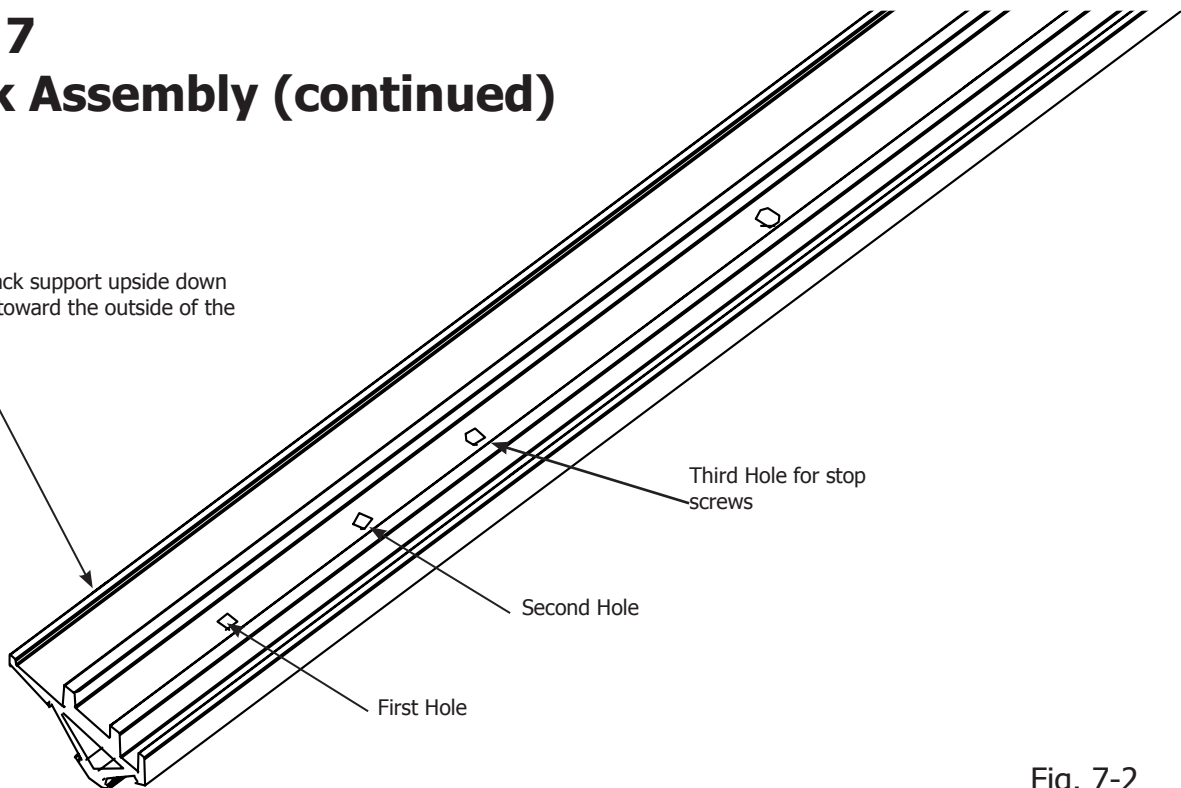


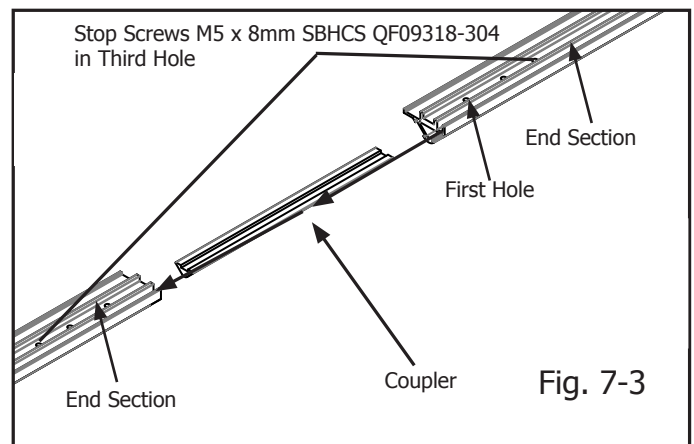



Fig. 7-2

Track Support shown upside down.

7-5:  **NOTE:** If setting up as a seven-foot frame, you will need to cut the plastic track to length once it is installed. Insert a plastic track completely into one side of the aluminum track supports (**Fig. 7-4**). The plastic track should slide into the track support easily. If a plastic track binds slightly, try backing it out a little, then try pushing it further. If the plastic binds badly, check the track supports for debris, burrs, misalignment or damage. In same manner, insert plastic track in other side of track support.

7-6:  **NOTE:** The extrusions have a wider shoulder on one edge of the track. This shoulder is to be placed toward the inside of the table over the edge of the black plastic tabletop. (**Fig. 7-5**).



7-7:  **NOTE:** Four-foot track supports have three (3) hold down screws and two-foot track supports have two (2) hold down screws, therefore a seven-foot frame will use 10 hold down screws (5 per assembled track) and a twelve-foot frame will use 16 hold down screws (8 per assembled track).

Step 7

Track Assembly (continued)

7-7: Attach Tracks. Secure one assembled track to the back of the quilting frame. Line up the assembled track by holding it tightly against the plastic table top as you secure it to the frame, using five (5) (for seven-foot frame) or eight (8) (for twelve-foot frame), M6x12mm QF09318-303 per assembled track as applicable shown in **Fig. 7-6** and **Detail 7-6**. Do not tighten screws at this time. They need to be loose to accommodate adjustments in the next step. In same manner, attach the remaining track support to the front of the frame using five (5) or eight (8) M6x12mm QF09318-303 as applicable.

7-8: Align Tracks. Place the carriage on the track at one end of the table. Tracks at one end of the table. Roll back and forth along the length of the table, establishing the distance between the tracks, taking care to check that the wheels are engaging the track on both the front and the back of the carriage. Move both tracks in tandem to the back of the table as far as possible. (Slots in the table allow this movement – if you have not tightened the screws too tight.) Double-check that the back track is straight along the back edge of the table. Fully tighten the screws in the back track only for now.

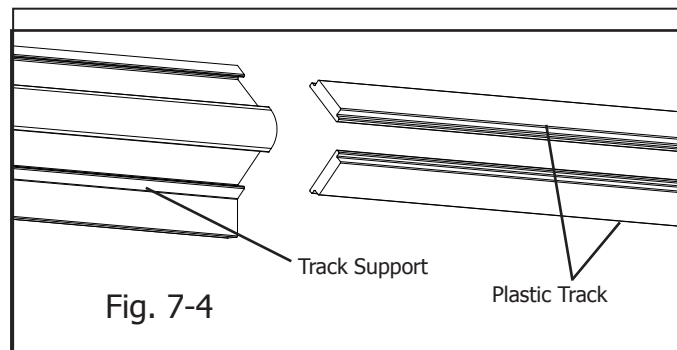
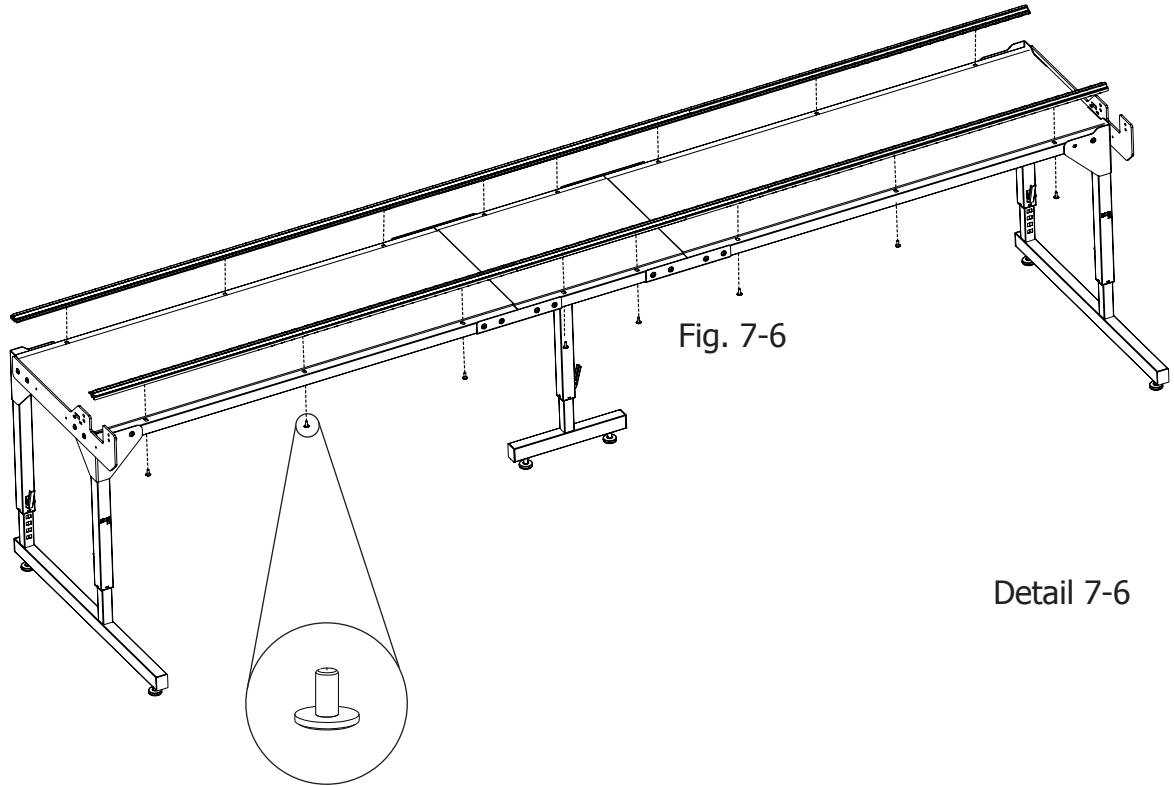


Fig. 7-5

Step 7 Track Assembly (continued)



7-9: Place the machine onto the carriage and again, roll it the entire length of the frame, working the tracks into the wheels as you go. Lightly tighten the front track support screws as you move down the table. Check the carriage to verify that it rolls smoothly and that both ends of the carriage are engaging the tracks. If you find a section of track where the carriage rocks back and forth when the machine is moved all the way forward or back, loosen the front track support screws, adjust the front track until the carriage rolls smoothly and does not rock, then re-tighten the front track screws.

7-10: Finally, fully tighten the front track screws to the table.

Step 8 Ratchet Stop Assembly

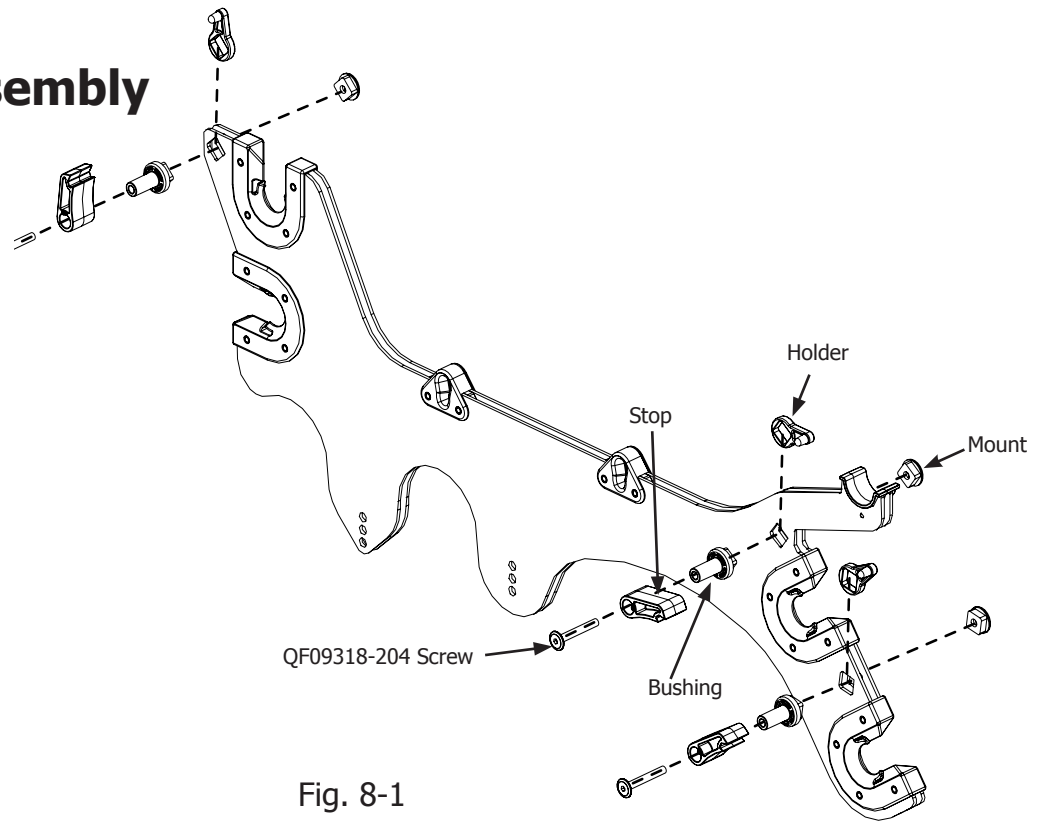


Fig. 8-1

Parts Needed

- (1) Open-hole pole bracket
(right, from Kinetic Frame)
- (3) M6x48mm socketed washer head cap screw
QF09318-204 (from Kinetic Frame)
- (3) ratchet-stop (from Kinetic Frame)
- (3) ratchet-stop bushing
(from Kinetic Frame)
- (3) ratchet-stop mount
(from Kinetic Frame)
- (3) ratchet-stop holder
(from Kinetic Frame)

Tools Required

- 4mm Allen wrench
(provided with Kinetic Frame)

8-1: Identify the open-hole pole bracket (right bracket) and the plugged-hole pole bracket (left bracket). Set the plugged-hole pole bracket aside at this time. (**Fig. 8-1**)

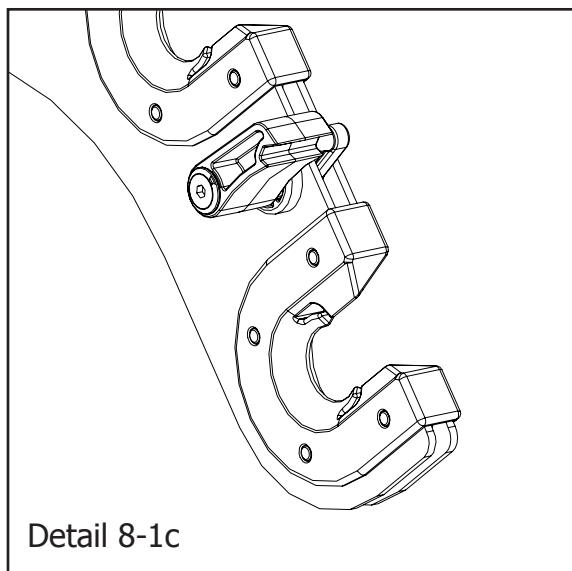
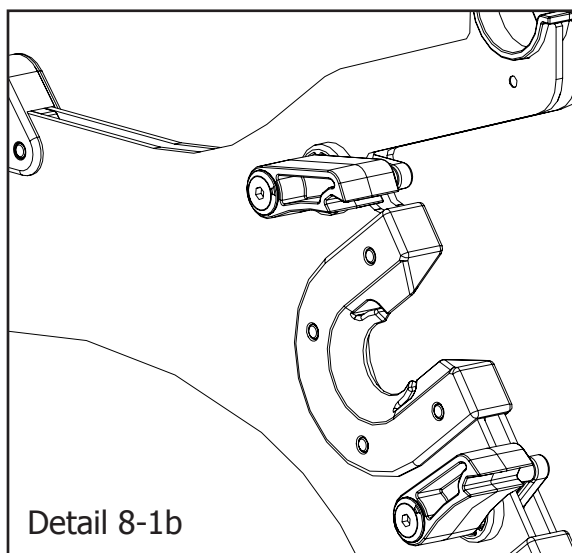
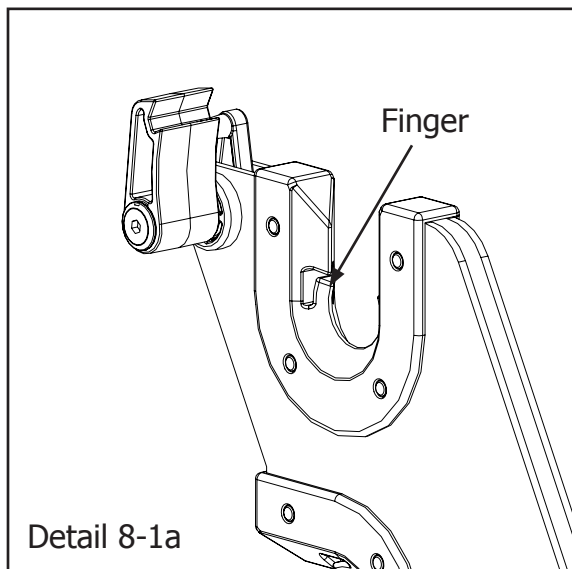
8-2: Place one ratchet-stop catch between the two metal pieces at the back of the open-hole pole bracket, with the stop nub facing inside, as shown in **Fig. 8-1 and Details 8-1a, 8-1b, and 8-1c** found on the next page.

If the ratchet-stop holder will not fit, loosen the two bearing screws nearest the square hole. Slide in the ratchet-stop holder and re-tighten when finished.

8-3: Following the parts order shown in **Fig. 8-1**, thread one M6 x 48mm QF09318-204 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 Allen wrench until the ratchet-stop holder nub holds the ratchet-stop.

Step 8

Ratchet Stop Assembly (continued)



8-4: In same manner, attach the remaining ratchet-stops and ratchet-stop catches to the front of the pole bracket, paying attention to the orientation of the ratchet-stops (**Figure 8-1, Details 8-1a, Details 8-1b and 8-1c**) to create the right pole bracket.

Step 9 Pole Bracket Assembly

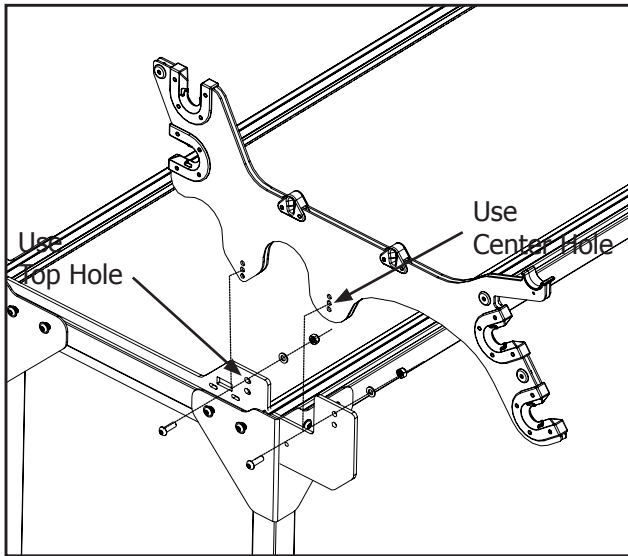


Fig. 9-1 Left side

Parts Needed

- (1) frame assembly
- (1) pole bracket assembly with latches (right)
(from Kinetic Frame)
- (1) pole bracket assembly without latches (left)
(from Kinetic Frame)
- (4) M8x25 socketed button head cap screw
QF09318-06 (from Kinetic Frame)
- (4) M8 flat washer QF09318-09
(from Kinetic Frame)
- (4) M8 lock nut QF09318-08
(from Kinetic Frame)

Tools Required

- 5mm Allen wrench
(provided with Kinetic Frame)
- 17/13mm wrench
(provided with Kinetic Frame)

9-1: Slide the left pole bracket assembly down over the support rail on the left frame side front. The pole bracket should straddle the support rail. Attach the pole bracket assembly using two M8x25mm QF09318-06.

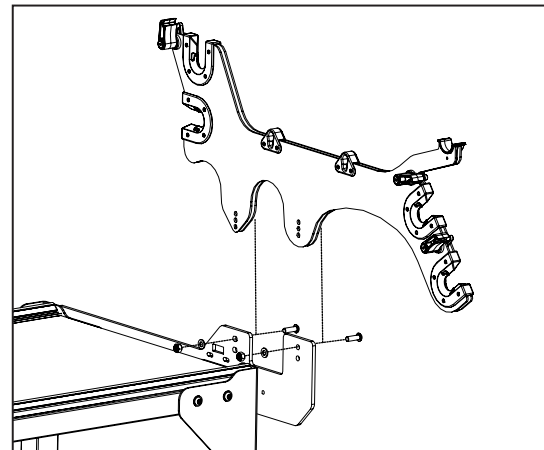


Fig. 9-2 Right side

Thread the screws through the center hole of the pole bracket and the top hole of the support rail from the outside to the inside of the frame (Fig. 9-1).

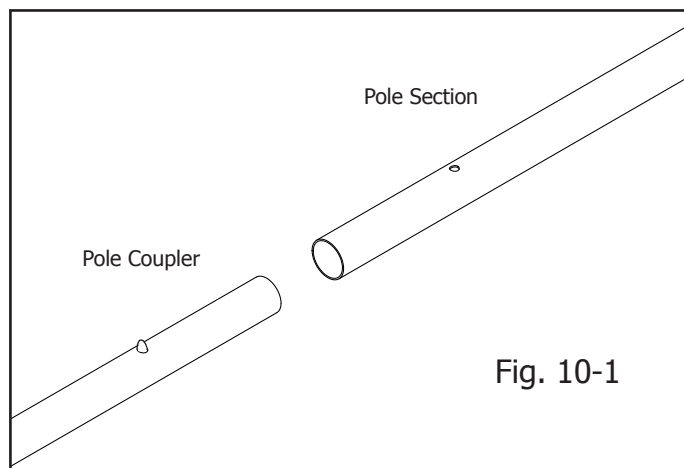
The Baby Lock Kinetic Frame pole brackets have 2 sets of 3 mounting holes to attach them to the support rails. The center hole in the 3 holes is normally the optimum position to install the pole brackets. This hole normally lines up with the top hole in the support rails. The support rails have 2 sets of 2 holes for mounting the pole brackets. **The top hole is to be used when using the Baby Lock Crown Jewell standard carriage and the bottom set of holes is to be used when using the Pro-Stitcher carriage.** The extra 2 holes on the pole brackets are for adjustment of the pole brackets, up or down. The pole brackets can be adjusted 7/16-inch up or down from the center hole if needed. On the end of each screw, slide a flat washer followed by a lock nut, as shown in **Fig. 9-1**.

9-2: Visually level the pole bracket assembly and fully tighten the two screws with the 13mm wrench and 5mm Allen wrench.

9-3: Repeat **Steps 9-1** and **9-2** to attach the right pole bracket assembly, making sure the ratchet stops are on the inside of the frame. (**Fig. 9-2**)

Step 10

Pole Coupler Assembly



Parts needed

(10) pole sections

(5) pole couplers

10-1: Join two pole sections together by inserting a pole coupler into the end of one pole section (as shown in **Fig. 10-1**), depressing the spring button as it slides in. Continue sliding until the spring button pops out of the hole in the pole section. Repeat to add the second pole section to the first to complete one pole assembly.

10-2: Using the remaining pole couplers and pole sections, repeat **Step 10-1** to complete four more pole assemblies.

Step 11

Pole End Assembly

Parts Needed

- (5) pole assembly (from Kinetic Frame and two-foot extension)
- (7) pole end (from Kinetic Frame)
- (2) short-bolt ratchet wheel assembly (from Kinetic Frame)
- (1) long-bolt ratchet wheel assembly (from Kinetic Frame)
- (1) hand wheel assembly (from Kinetic Frame)
- (1) hand wheel insert (from Kinetic Frame)

Tools Required

- 17/13mm wrench
(provided with Kinetic Frame)

11-1: Check one pole end to ensure that it matches **Fig 11-1 and 11-3**.

11-2: Loosen the nut on the pole end until it reaches the end of the bolt (**Fig. 11-2**).

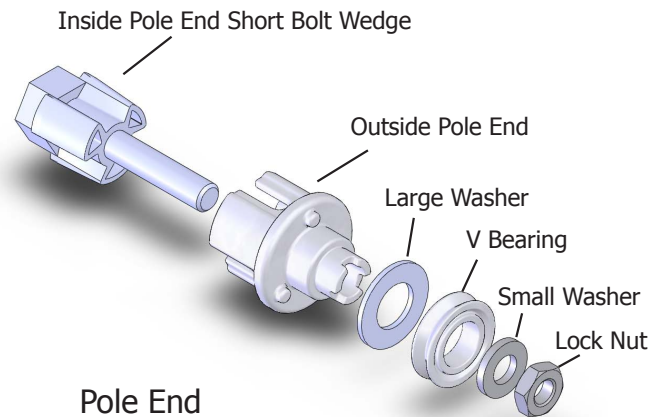
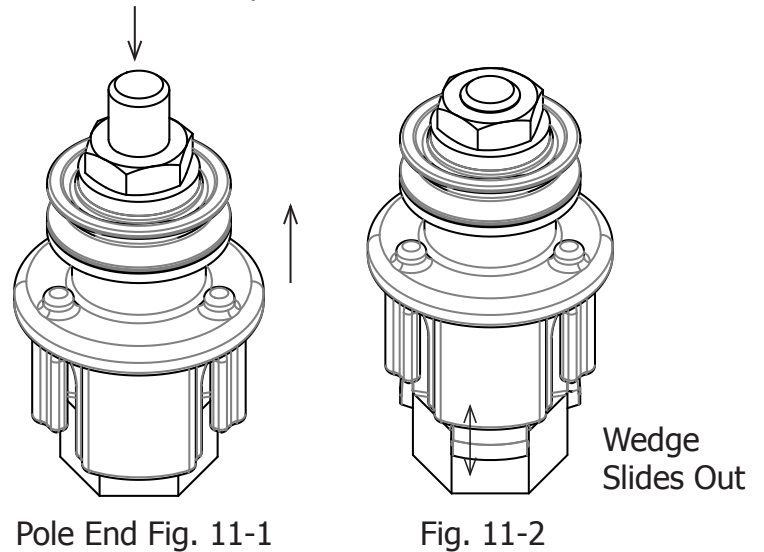
11-3: Holding onto the outside pole end, push the nut end of the bolt towards the opposite end of the assembly (**Fig. 11-1**), until the pole end short-bolt wedge slides out (**Fig. 11-2**). This makes the outside diameter of the pole end smaller and ready to be inserted into the end of the pole assembly.

11-4: Repeat Steps 11-1 to 11-3 to prepare the remaining four (6) pole ends for insertion.

NOTE: A regular M10 nut is provided as an assembly aid tool if you have trouble holding the pole end while tightening the pole end into the pole.

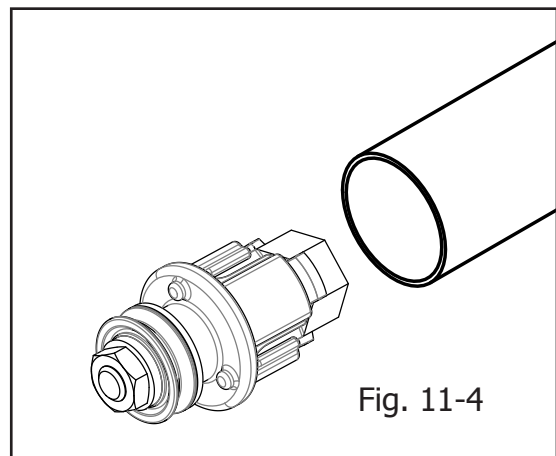
11-5: Slide one pole end into the end of one pole assembly as shown in (**Fig. 11-4**). Check that the pole end is inserted completely into the pole assembly.

Loosen nut then push



Pole End assembly comes pre-assembled. Exploded diagram is for reference only.

Fig. 11-3



Step 11 Pole End Assembly (continued)

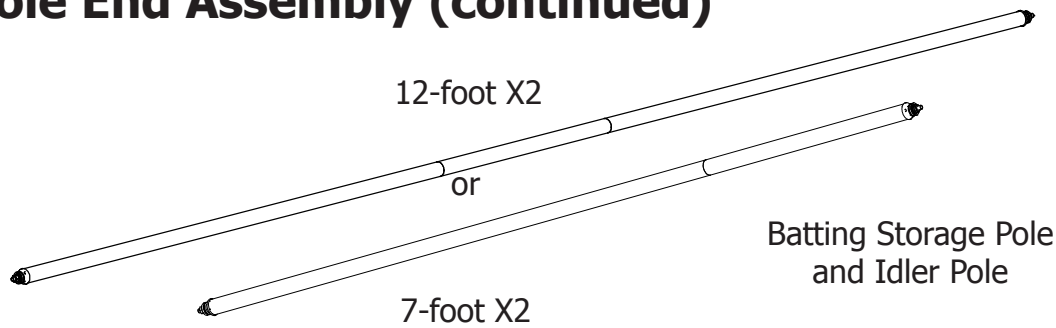
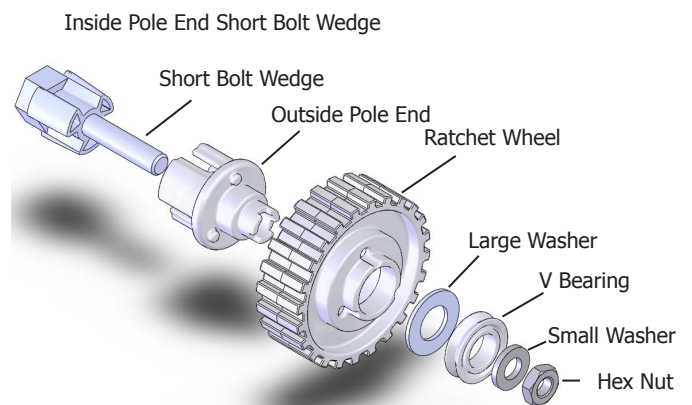


Fig. 11-5

11-6: Completely tighten the nut, using the 17/13mm wrench, while holding the pole end assembly tightly into the open end of the pole. This will expand the outer pole end, ensuring a tight fit into the pole.

11-7: Repeat **steps 11-5** and **11-6** to add a second pole end to the other open end of the pole assembly just built. Repeat this process for a second pole. Add one pole end to each of the remaining 3 pole assemblies. (**Fig. 11-5**). Set the poles with two pole ends aside as the **batting storage pole and idler pole**.



Short-bolt ratchet assembly comes pre-assembled. Exploded diagram is for reference only.

Fig. 11-6

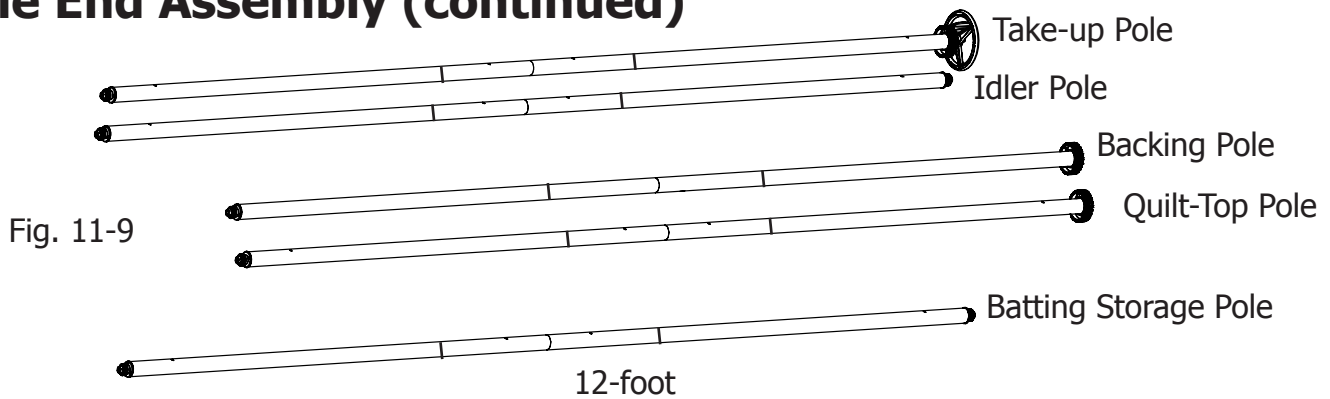
Short-Bolt Ratchet-Wheel Assembly

11-8: Check the short-bolt ratchet wheel assembly to ensure that it matches **Fig. 11-6**.

11-9: Loosen the nut at the end of the short-bolt ratchet wheel assembly until it nearly reaches the end of the bolt.

11-10: Holding onto the outside of the pole end, push the nut end of the bolt towards the opposite end of the assembly until the inside pole end short-bolt wedge slides out (in similar fashion to **Step 11-3**). This makes the outside diameter of the outside pole end smaller and ready to be inserted into the end of the pole assembly.

Step 11 Pole End Assembly (continued)



Long-Bolt Ratchet-Wheel Assembly

11-12: Add the hand wheel assembly and hand wheel insert as shown in **Fig. 11-7**, aligning the three tabs on the hand wheel insert with the three notches on the outside pole end. If the three tabs are not properly aligned, the hand wheel will spin freely, independent of the pole.

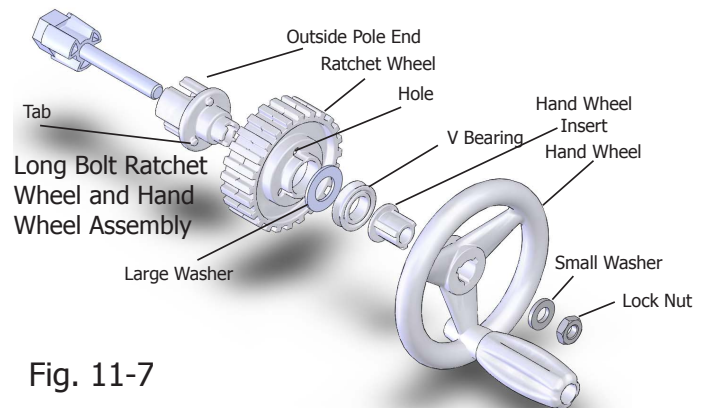
11-13: Repeat **Step 11-10** to prepare the long-bolt ratchet wheel assembly for insertion.

Ratchet Wheel and Hand Wheel Insertion

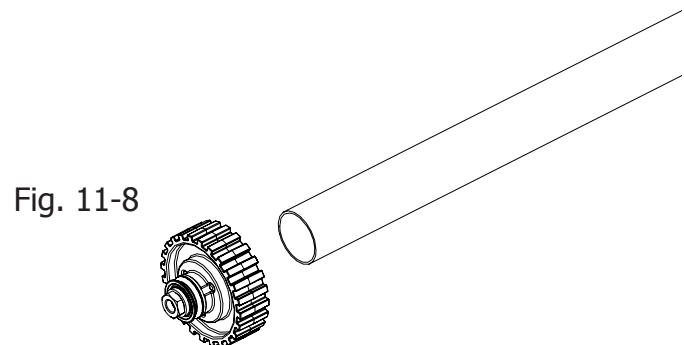
11-14: Insert one short-bolt ratchet wheel assembly into the open end of a pole assembly as shown in **Fig. 11-8**. Check that the pole end is inserted completely into the pole assembly.

11-15: Completely tighten the lock nut, using the 17/13mm wrench, while holding the short-bolt ratchet wheel assembly tightly into the open end of the pole. This will expand the outer pole end, ensuring a tight fit in the pole. Make sure all 3 tabs on the outside pole end, align with the three holes on the ratchet wheel, see **Fig. 11-6 previous page**. This completes the **backing pole**.

11-16: Repeat **Steps 11-14** and **11-15** to complete the **quilt-top pole**. Set both poles aside (**Fig. 11-9**).



Long bolt ratchet wheel assembly comes pre-assembled without hand wheel and hand wheel insert. Exploded diagram is included for reference.



11-17: In same manner, slide the long-bolt ratchet wheel assembly and hand wheel assembly into the open end of the remaining pole assembly and while holding the complete assembly tightly into the open end of the pole, tighten the lock nut, using the 17/13mm wrench. Check to be sure the hand wheel engages the ratchet wheel assembly and does not spin loosely and that the 3 tabs of the outside pole end align with the 3 holes in the ratchet wheel. This completes the **take-up pole (Fig. 11-9)**.

Step 12

Batting Bar Bracket Assembly

Parts needed

- (2) batting bar bracket assembly (from Kinetic Frame)
- (2) batting bar bracket clamp (from Kinetic Frame)
- (8) M6x25mm socketed washer head cap screw QF05300-113 (from Kinetic Frame)
- (1) BLQF-SK shim kit for seven-foot frame (from Kinetic Frame)

Tools Required

- M4 Allen wrench (provided with Kinetic Quilt Frame)

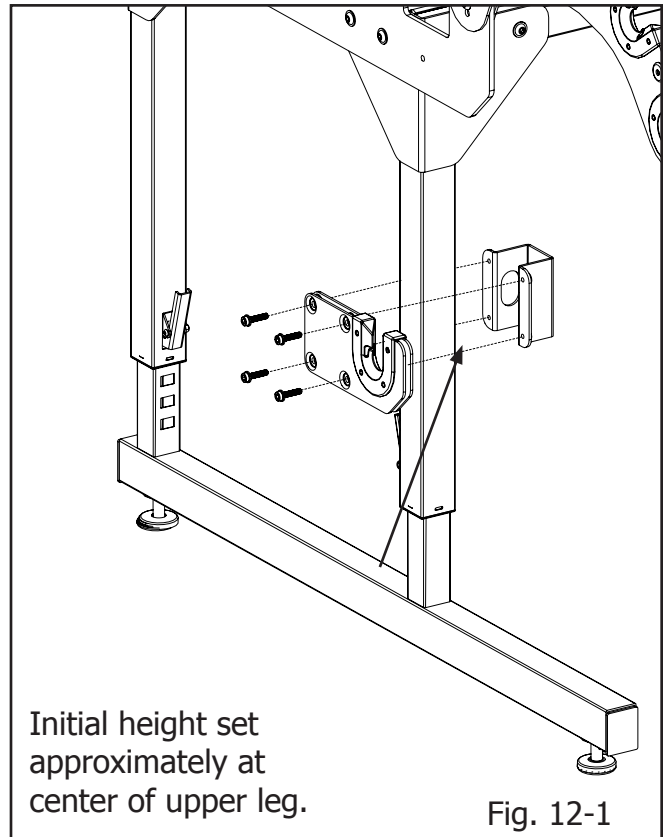


NOTE: For seven-foot frame use the BLQF-SK see Step 12-2.



12-1: **NOTE:** This step includes a recommendation for the position of the batting bar bracket. This position can be changed, depending on the diameter of the batting roll and the frame-height.

Position the batting bar bracket assembly on the outside of the front end leg, as shown in **Fig. 12-1**. The bracket is installed approximately in the center of the upper end leg. Ensure that both brackets are set at the same height. The clamp has a cutout for the front end-leg height-fixing screw, **Fig 12-1**. The front end-leg height-fixing screw will need to be either inside the cutout or above or below the clamp.



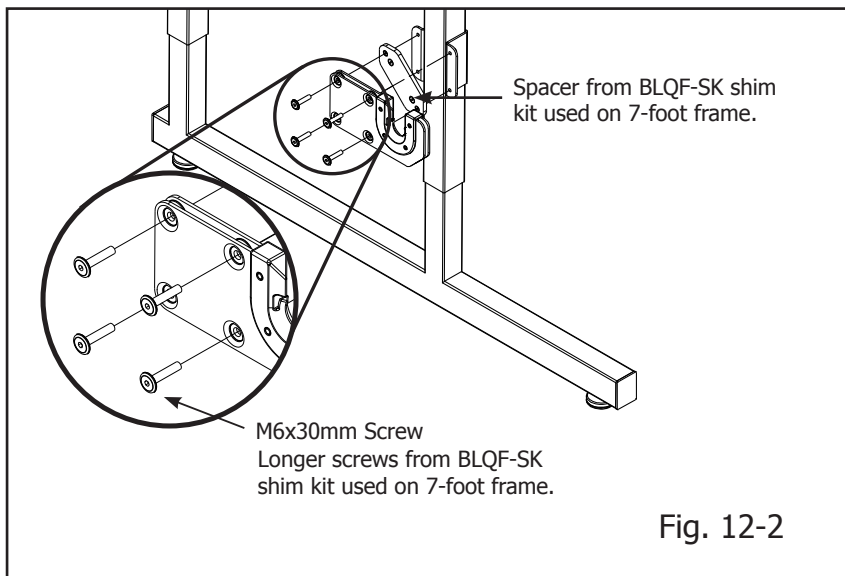
Step 12

Batting Bar Bracket Assembly (continued)

12-2: For seven-foot frame: Insert one 1/4-inch plastic spacer between the batting bar bracket assembly and the upper leg on both sides on the front corners of the table. The plastic spacer fits diagonally across the batting bar bracket assembly and is clamped against the bracket and the leg using the M6x30mm screws **Fig. 12-2**. Although only 2 screws will go through the spacer, all 4 screws should be used to clamp the batting bar bracket to the leg. Do not over-tighten any of these screws. Insert the four (4) M6x30mm QF05300-117 through the batting bar bracket assembly and into the weld nuts on the clamp. Adjust to the desired height and tighten the screws until the clamp remains fixed at the desired height. Do not over-tighten the clamp.

12-3: For twelve-foot frame: Insert the four (4) M6x25mm QF05300-113 through the batting bar bracket assembly and into the weld nuts on the clamp. Adjust to the desired height and tighten the screws until the clamp remains fixed at the desired height. Do not over-tighten the clamp.

12-4: Repeat **Step 12-1** and **Step 12-2** to install the remaining batting bar bracket at the other end of the frame. Be sure to set the batting bar bracket assembly to the same height on both sides.



Steps 13 & 14

Pole to Frame Assembly

Rubber End Cap Assembly

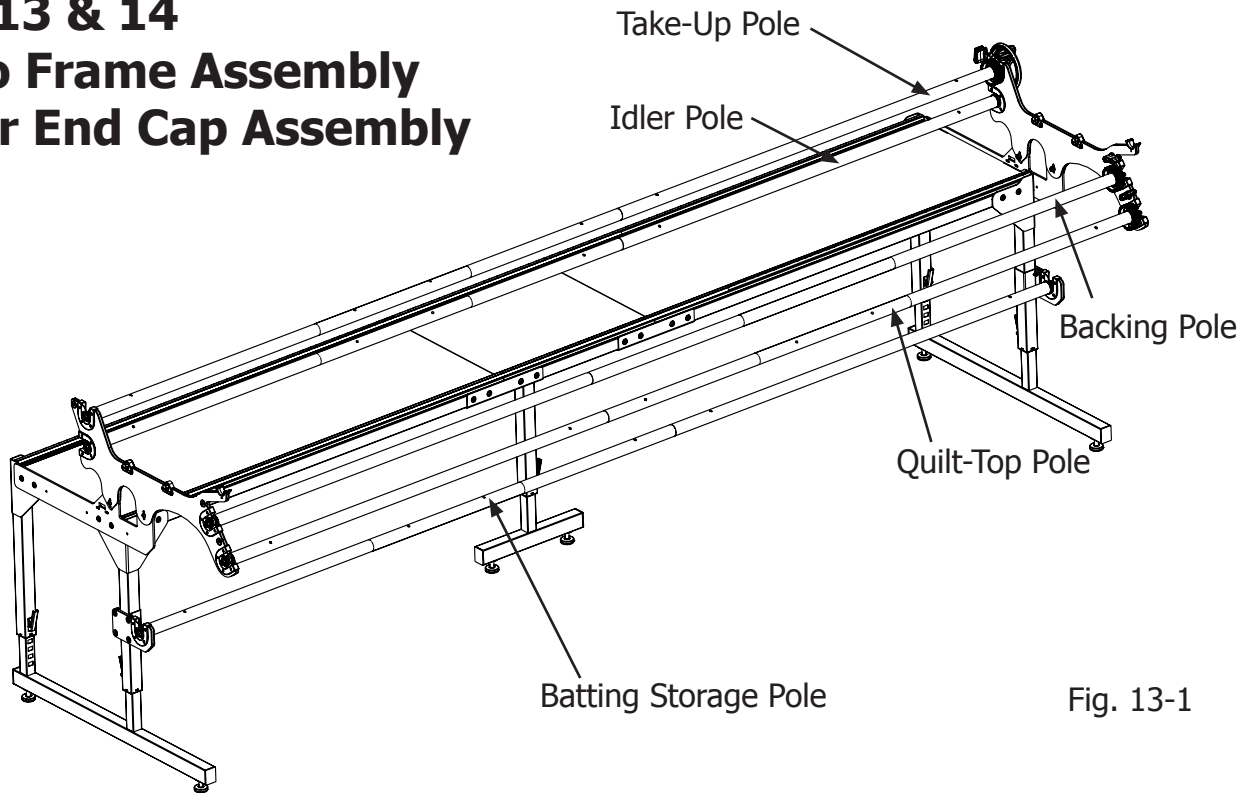


Fig. 13-1

Step 13: Pole to Frame Assembly

Parts Needed

- (1) frame assembly (from two-foot extension and Kinetic Frame)
- (1) batting storage pole (from two-foot extension and Kinetic Frame)
- (1) quilt-top pole (from two-foot extension and Kinetic Frame)
- (1) backing pole (from two-foot extension and Kinetic Frame)
- (1) take-up pole (from two-foot extension and Kinetic Frame)

13-1: Place the poles on the frame as shown in **Fig. 13-1**. The poles will snap past the plastic fingers, which are shown in **Detail 8-2a**.

Step 14: Rubber End Cap Assembly

Parts Needed

- (1) frame assembly with poles (from two-foot extension and Kinetic Frame)
- (8) rubber end caps (from Kinetic Frame)

14-1: Slide one (1) rubber end cap onto the end of each bolt sticking out of the pole ends, as shown in **Fig. 14-1**. If the poles are assembled properly, there should be approximately 3/8-inch to 1/2-inch of metal threads showing beyond the ends of the pole.

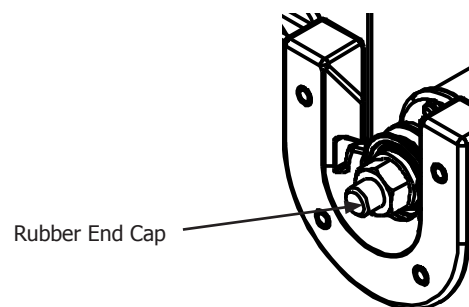


Fig. 14-1

Steps 15 & 16

Bungee Clamp Assembly

Hook & Loop Tape on Pole Assemblies

Step 15: Bungee Clamp Assembly

Parts needed

- (1) frame assembly
(from two-foot extension and Kinetic Frame)
- (4) bungee clamps QF09318-110
(from Kinetic Frame)

15-1: Thread the bungee clamp cord from the inside of the frame through the bungee slot and then pull the cord in a downward movement to lock the bungee clamp into place. (**Fig. 15-1**)

15-2: Follow **Step 15-1** for the remaining three bungee clamps.

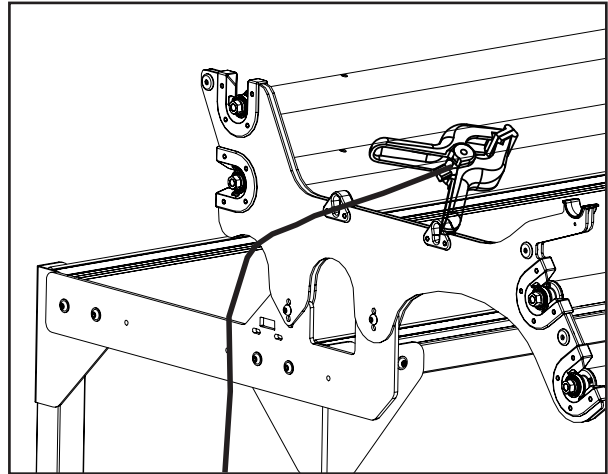


Fig. 15-1

Step 16: Hook & Loop Tape on Pole Assemblies

Parts Needed

- (1) frame assembly
(from two-foot extension and Quilt Frame)
- (1) quilt top pole
(from two-foot extension and Kinetic Frame)
- (1) backing pole
(from two-foot extension and Kinetic Frame)
- (1) take-up pole
(from two-foot extension and Kinetic Frame)
- (3) hook & loop Tapes (10-foot) QF00665
(from Kinetic Frame)
- (3) hook & loop tapes (2-foot) QF10619
(from two-foot extension kit)

Tools Required

measuring tape or ruler (not provided)
scissors (not provided)

NOTE: Take care to stick the hook & loop tape on straight. This step will determine how well your quilts load in the future. Use the spring coupler snap buttons as a guide when aligning the hook & loop tape for best results.



NOTE: It is recommended to reserve the 2-foot hook & loop tapes to apply to the 2-foot poles. Follow the instructions below to attach the hook & loop tapes from the Kinetic Frame to the original poles, stopping and cutting the tape when reaching the 2-foot pole extensions.

16-1: Prepare to attach the hook & loop tape to the quilt top pole, backing pole, and take-up pole, by measuring in 3-inch from each end of the pole. Peel the backing off the hook & loop tape as you go and apply to all three poles, starting at the 3-inch mark and ending at the opposite 3-inch mark. Take care to stick the hook & loop tape on straight. This step will determine how well your quilts load in the future. Use the spring buttons as a guide when aligning the hook & loop tape for best results.

Hint: Attach the hook & loop tape next to the snap buttons not between.

Once the hook & loop tape has been adhered from one end of the poles to the other, it can be clipped where the poles meet at the pole coupler.

Steps 17 & 18

Attach Leaders

Adjusting Frame Height and Leveling

Step 17: Attach Leaders

Parts Needed

- (1) frame assembly with hook & loop tape applied to poles (from two-foot extension and Kinetic Frame)
- (3) leaders (sold separately BLQL)

17-1: Mark the center of the leaders on both the hook & loop tape and the hemmed edge. Mark the center of the quilt top pole, backing pole and take-up pole with a permanent marker.

17-2: Beginning in the center, align the marks and attach the leaders to the hook & loop tape on backing pole and the quilt top pole so the marked sides of the leaders hang to the center between the poles.

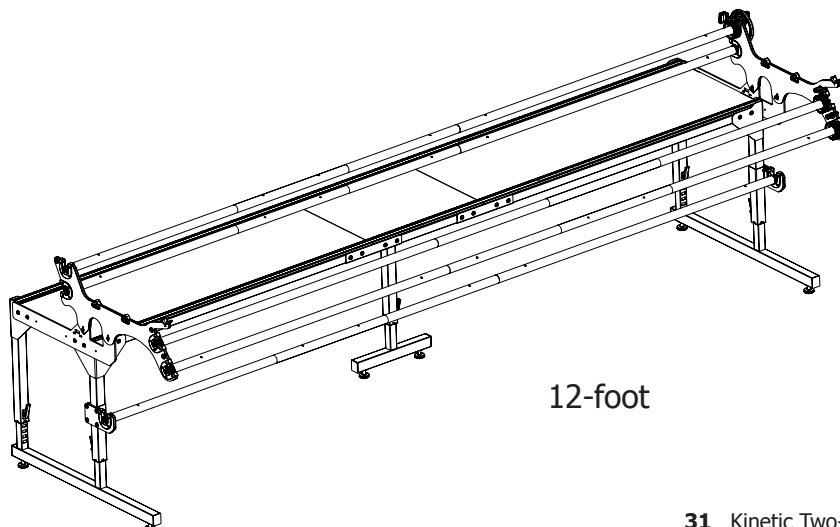
Beginning in the center, align the marks and attach the remaining leader so it falls to the back of the take-up pole.

Step 18: Adjusting Frame Height and Leveling

18-1: Adjust the frame height so that when standing at the front of the machine with your hands on the front handle bars, your elbows are bent at a 90 degree angle. It is recommended to have a second person lift the frame weight off the height adjusting screws when you need to make a height adjustment.

Ensure that the height-adjustment screws in each leg are in the same slot and fully tightened. The rough height setting is done at the slots in the legs and the fine adjustment is done at the leveling glides at the bottom of each leg. The 16mm/10mm wrench is designed to fit the leveling glide.

18-2: Double-check to make sure the frame is level. Using a spirit level, check and adjust the frame top to be level in the place where it will be used, both front to back and side to side, by adjusting the leveling feet. Double-check the table top frame to ensure that it is flat at the splice braces and not sagging or high at the joints. If no spirit level is available, check the table with machine on the carriage and the tracks. When the table is level, the machine should stay where you put it and not roll forward, back or side to side.



12-foot