

Quilter's Evolution

Evolution Hoop-Frame & Elite-Frame Upgrade Kits Assembly Manual

IMPORTANT:

This manual explains how to assemble several different upgrade kit options!

You **won't** use most of this book.

Also, most of the size of the book is caused by all the **images** in it.

Open this manual, and you will get the information you need to **successfully** complete your upgrade. **You** can do this!

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My Frame Details

Use this page to record information about your frame and upgrade kit. This will be helpful if you ever need to call a Grace Company support technician.

Original Frame: _____

Upgrade Kit: _____

Date of Purchase: _____

Quilting Machine: _____

Accessories You Own:

- Quilter's Creative Touch (QuiltMotion)
- Cloth Leaders
- Pattern Perfect
- G-Series Top Plate
- Power Strip Accessory
- Speed Control
- Gracie Laser
- SureStitch
- SureStitch Elite
- Luminess Light Bar

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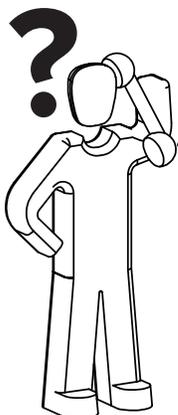
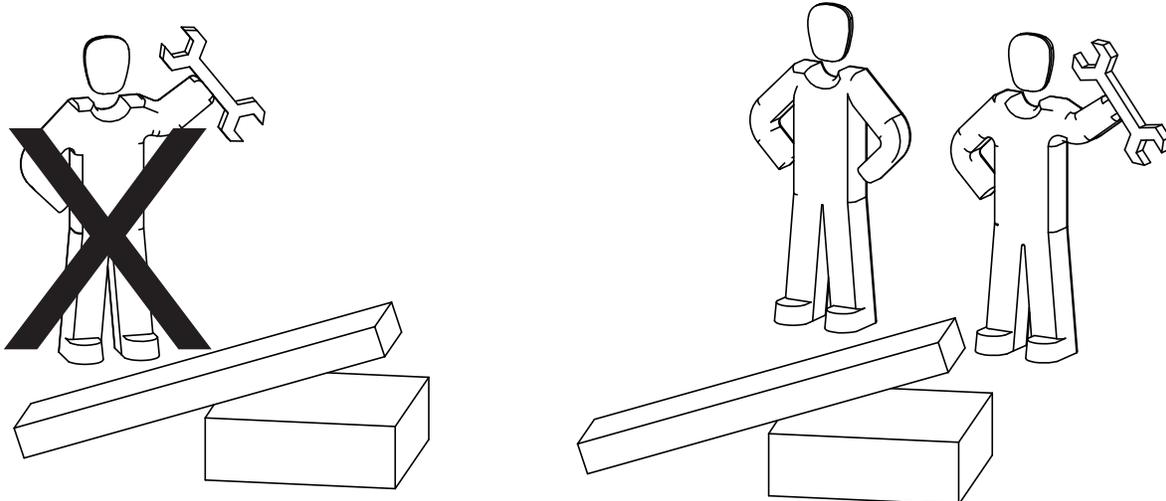
Warranty Information

The upgrade kit has a one-year limited warranty on all parts. Grace Company will, at its discretion, repair or replace any part(s) with material or manufacturing defects. The customer is responsible for all shipping costs. Upon receipt of the product, Grace Company will determine whether to repair or replace the defective product or part(s). This warranty does not cover parts that are damaged through misuse, improper storage, improper assembly, loss, natural events, or willful destruction.

All customers requesting support will be required to provide a proof of purchase and registration if no warranty card is present and applicable. Grace Company product warranties are still valid if bought from an authorized Grace Company dealer. Grace Company is not subject to dealer warranties. Warranties do not transfer over to a secondary owner.

For more warranty and registration information, visit the following link:

<https://graceframe.com/en/warranty/info>



1-801-485-6688

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Welcome to Your Evolution Upgrade Kit

We are pleased to introduce you to the newest part of your quilting setup.

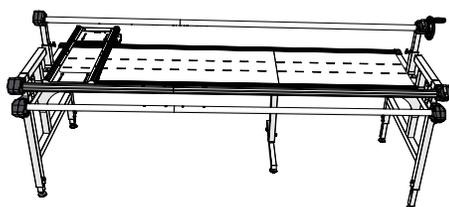
These instructions include steps for upgrading several different set ups. Therefore, some of these instructions do not apply to your situation. Use the chart below to learn which parts of the instructions you need to follow.

Thank you again for choosing us to help with your quilting projects.

- The Grace Company

Start Here: Which of these is your current frame?

8-Foot Evolution Elite-Frame

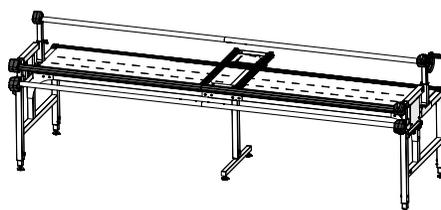


You have the 2-Foot Extension kit (Box 7), to upgrade from an 8-Foot Elite-Frame to a 10-Foot Elite-Frame.

Your instructions are in the following sections:

1. "Preparing to Upgrade An Elite-Frame" on page 82.
2. "Completing the 8-Foot to 10-Foot Elite-Frame Upgrade" on page 104.

10-Foot Evolution Elite-Frame

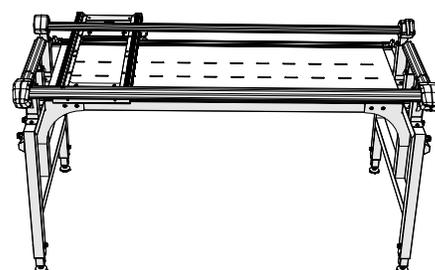


You have the 2-Foot Extension kit (Box 7), to upgrade from a 10-Foot Elite-Frame to a 12-Foot Elite-Frame.

Your instructions are in the following sections:

1. "Preparing to Upgrade An Elite-Frame" on page 82.
2. "Completing the 10-Foot to 12-Foot Elite-Frame Upgrade" on page 123.

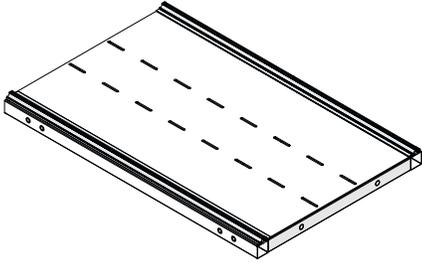
5-Foot Evolution Hoop-Frame



Continue to Next Page

Which of these extension kits do you have?

Box 5
(3-Foot Extension)

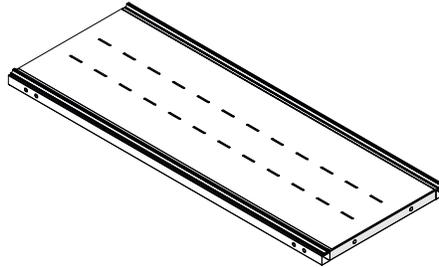


You are upgrading from the Evolution Hoop-Frame to the 8-Foot Elite-Frame.

Your instructions are in the following sections:

1. "Taking Apart the Hoop Frame" on page 1.
2. "Completing the Hoop Frame to 8-Foot Elite-Frame Upgrade" on page 23.

Box 6
(5-Foot Extension)

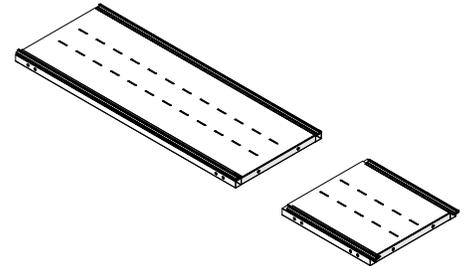


You are upgrading from the Evolution Hoop-Frame to the 10-Foot Elite-Frame.

Your instructions are in the following sections:

1. "Taking Apart the Hoop Frame" on page 1.
2. "Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade" on page 41.

Box 6 & 7
(7-Foot Extension)



You are upgrading from the Evolution Hoop-Frame to the 12-Foot Elite-Frame.

Your instructions are in the following sections:

1. "Taking Apart the Hoop Frame" on page 1.
2. "Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade" on page 61.

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Included Parts and Tools

Note: Only some of the boxes in the following list are in your upgrade kit.

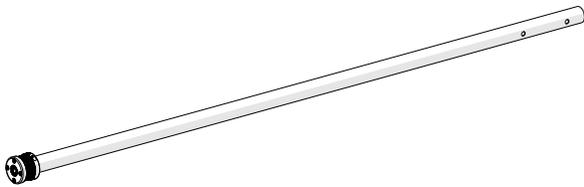
- 2-Foot Extension uses Box 7
- 3-Foot Extension uses Box 5
- 5-Foot Extension uses Box 6
- 7-Foot Extension uses Box 6 & Box 7
- All Hoop-Frame Upgrade Kits use Box 4

Your original frame either came with boxes 1, 2, & 3 (for the Hoop-Frame) or with boxes 1, 2, & 4 (for any size Elite-Frame).

Note: You need some of the parts & tools that came with your original frame. They are noted the first time they appear in the list of parts & tools for tasks with the message (*with orig frame*).

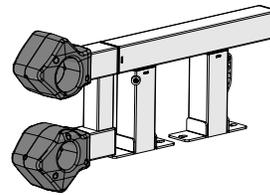
Box 4 (All Hoop-Frame Upgrades)

5-ft Round Rail Assembly (x2)



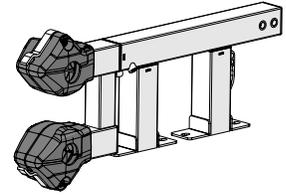
QEF-09-17068

Square Side Rail Assembly - Left



QEF-09-17058

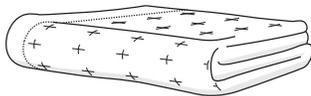
Square Side Rail Assembly - Right



QEF-09-17044

Box 4: Inner Box 1: Hardware Box

Cloth Leader Set



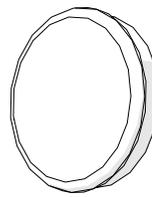
ACC-01-10750

Frame Reference Card Hook



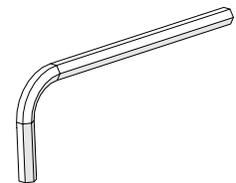
HDW-03-16369

38 mm Tube Cap (x2)



BER-05-14868

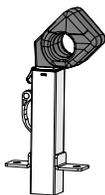
Allen Wrench 3 mm



HDW-03-10166

Box 4: Inner Box 2

Left Take-Up Rail Tower



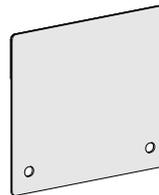
QEF-09-17030

Right Take-Up Rail Tower



QEF-09-17034

Elite Frame Logo Plate (x2)

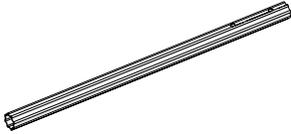


ACC-09-16565

Included Parts and Tools (continued)

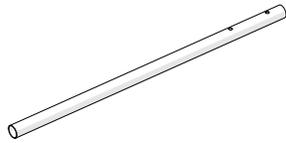
Box 5 (3-Foot Extension Only)

Star Rail - 3 ft



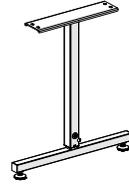
QEF-04-16815

Round Rail - 3-ft (x2)



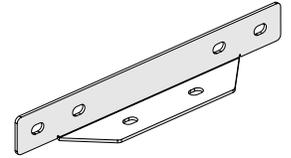
QEF-09-16814

Middle Leg



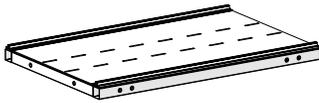
QEF-09-17102

Middle Table Brace (x2)



QEF-04-15545

3-ft Table Assembly



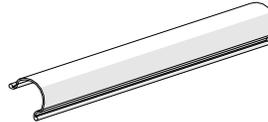
QEF-09-17119

8-ft Plastic Track



PLA-05-11764

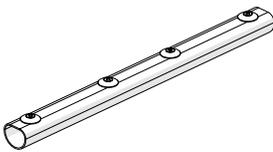
Front Rail Clamp



QEF-05-16505

Box 5: Inner Box 1

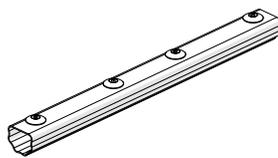
Rail Coupler Assembly (x2)



CNT-09-11865

Box 5: Inner Box 2

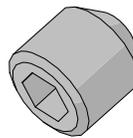
Star Rail Coupler



QEF-09-17096

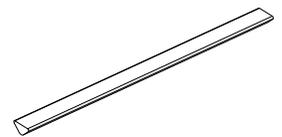
Box 5: Inner Hardware Box

Socket CSS M6 x 6 mm (x8)



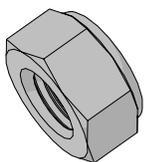
HDW-03-16818

Track Support Connector (x2)



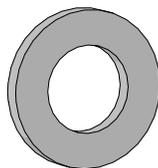
CNT-04-11041

Nylock Nut M10 (x2)



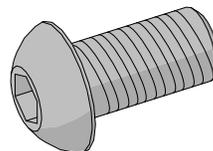
HDW-03-16817

Washer M10 (x2)



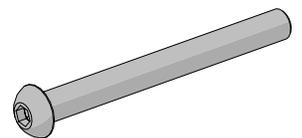
HDW-03-10952

SBHCS M8 x 16 mm (x16)



HDW-03-10951

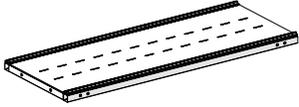
SBHCS M10 x 100 mm (x2)



HDW-03-14602

Box 6 (5-Foot & 7-Foot Extensions Only)

5-ft Table Assembly -
5-ft Extension



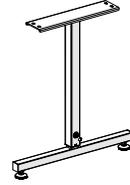
QEF-09-17087

Star Rail - 5 ft



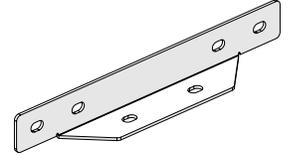
QEF-04-15537

Middle Leg



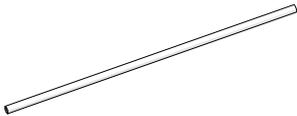
QEF-09-17102

Middle Table Brace
(x2)



QEF-04-15545

Round Rail - 5-ft (x2)



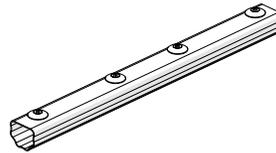
CNT-04-11005

10-ft Plastic Track



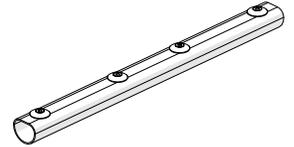
PLA-05-10560

Star Rail Coupler



QEF-09-17096

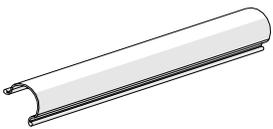
Rail Coupler
Assembly (x2)



CNT-09-11865

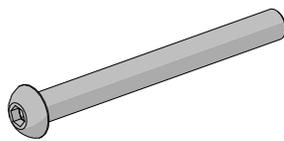
Box 6: Inner Hardware Box

Front Rail Clamp (x2)



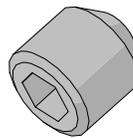
QEF-05-16505

SBHCS M10 x 100 mm
(x2)



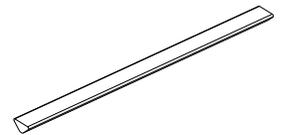
HDW-03-14602

Socket CSS
M6 x 6 mm (x16)



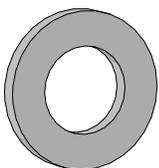
HDW-03-16818

Track Support
Connector (x4)



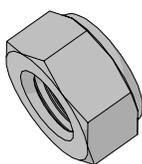
CNT-04-11041

Washer M10 (x2)



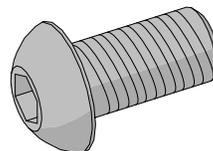
HDW-03-10952

Nylock Nut M10 (x2)



HDW-03-16817

SBHCS M8 x 16 mm
(x16)

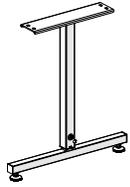


HDW-03-10951

Included Parts and Tools (continued)

Box 7 (2-Foot Extension & 7-Foot Extensions Only)

Middle Leg



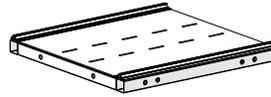
QEF-09-17102

2-ft Rail (x2)



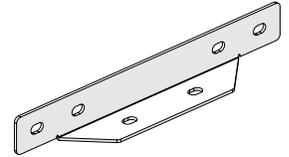
MET-04-11397

2-ft Table Assembly



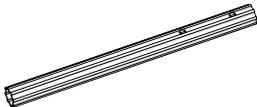
QEF-09-17151

Middle Table Brace (x2)



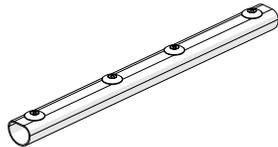
QEF-04-15545

Star Rail - 2 ft



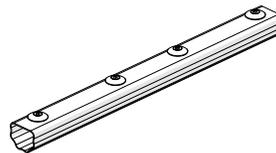
QEF-04-15538

Rail Coupler Assembly (x2)



CNT-09-11865

Star Rail Coupler



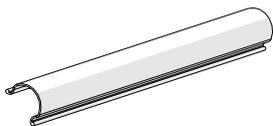
QEF-09-17096

12-ft Plastic Track



PLA-05-10561

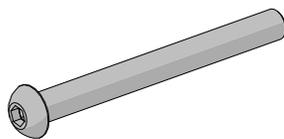
Front Rail Clamp



QEF-05-16505

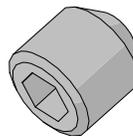
Box 7: Inner Hardware Box

SBHCS M10 x 100 mm (x2)



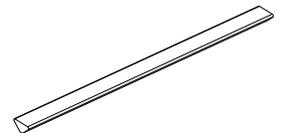
HDW-03-14602

Socket CSS M6 x 6 mm (x8)



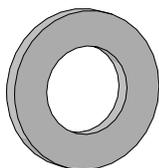
HDW-03-16818

Track Support Connector (x2)



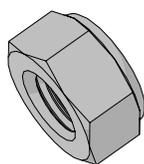
CNT-04-11041

Washer M10 (x2)



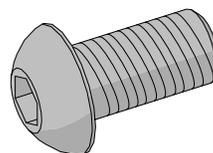
HDW-03-10952

Nylock Nut M10 (x2)



HDW-03-16817

SBHCS M8 x 16 mm (x16)



HDW-03-10951

Note: If your original frame is the 8-Foot or 10-Foot Evolution Elite-Frame, then these instructions don't apply to you. Go to "Preparing to Upgrade An Elite-Frame" on page 82 for the first set of instructions you need.

Taking Apart the Hoop Frame

To complete your upgrade from the Evolution Hoop-Frame to an Evolution Elite-Frame, first you must partially take apart the hoop frame. You will re-use many of these parts when you set up the Elite-Frame, but some of the parts from the hoop frame will not be needed again.

Note: Unless these instructions specifically tell you to save a part, you can discard or store any parts that you remove from the hoop frame. See page 2 for a list of the parts from the hoop frame that you will be using in the upgrade.

Note: You will need some of the tools that came with the hoop frame. These tools are noted the first time they appear in the list of parts & tools for tasks with the message (*with orig frame*).

Part Reference Tables	2
Task 1 - Removing All Quilting Components.....	4
Task 2 - Removing the Take-Up Rail	5
Task 3 - Removing the Machine	9
Task 4 - Preparing the Front Rail.....	11
Task 5 - Removing the Side Rails & Rail Holders	13
Task 6 - Removing the Tracks	16
Task 7 - Adjusting the Corner Braces & Legs	18

Taking Apart the Hoop Frame

Part Reference Tables

Instructions

These tables are for your reference. They list all the parts from your hoop frame, and explain what to do with those parts. However, as you follow the instructions in this section, you will also be told what parts to set aside to use later, so **if these tables feel unhelpful, you don't have to use them.**

Parts to Keep

The following table lists the parts from your hoop frame that you *must* keep, as these pieces are used in the upgrade. After you take apart the hoop frame, some of these pieces will still be attached to the frame, while some of them will be loose until you complete the upgrade.

If you want, you can use this table to keep track of the pieces as you interact with them.

1st Appearance in This Manual	Part or Tool Name	Quantity (Location After Disassembly)	Purpose
Task 1 (Removing All Quilting Components)	Bungee Clamps	4 (on frame)	Hold fabric on frame
	Front Rail Clamp	2 (loose)	Hold fabric on frame
Task 2 (Removing the Take-Up Rail)	Allen Wrench 6 mm	1 (loose)	Install M10 screws
	Large Hand Wheel	1 (loose)	Roll take-up rail
	Large Hand Wheel Knob	1 (loose)	Roll take-up rail
	Hand Wheel Collar	1 (loose)	Hold hand wheel to rail
	Hand Wheel Washer	1 (loose)	Hold hand wheel to rail
	SBHCS M10 x 55 mm	1 (loose)	Hold hand wheel to rail
	Hand Wheel Handle Bolt M8 x 85 mm	1 (in hand wheel)	Hold hand wheel knob to hand wheel
Task 3 (Removing the Machine)	Dual-Wheel Channel Lock	2 (1 on bottom carriage, 1 on machine)	Lock bottom carriage and machine in place
	SBHCS M6 x 20 mm	2 (in channel locks)	Hold channel locks in place
	Bottom Carriage Assembly	1 (loose)	Move machine over frame
Task 4 (Preparing the Front Rail)	Allen Wrench 2.5 mm	1 (loose)	Install M4 screws
	5-ft Star Rail Assembly (Front Rail)	1 (loose)	Hold fabric on frame
	Quilt-Backing Rail Press-In Cap	1 (loose)	Protect end of front rail
Task 5 (Removing the Side Rails & Rail Holders)	Allen Wrench 5 mm	1 (loose)	Install M8 screws
	SBHCS M8 x 16 mm	16 (loose)	Hold braces/rail holders to frame
	3-Wing Knob M8 x 16 mm	2 (loose)	Move take-up rail up or down

1st Appearance in This Manual	Part or Tool Name	Quantity (Location After Disassembly)	Purpose
Task 6 (Removing the Tracks)	T-handle Allen Wrench 4 mm	1 (loose)	Install M6 screws
	Connector Bolt M6 x 10 mm	10 (loose)	Hold tracks to table
	5-ft Tracks	2 (loose)	Hold bottom carriage on frame
Task 7 (Adjusting the Corner Braces & Legs)	SBHCS M8 x 20 mm	4 (2 on frame, 2 loose)	Hold table to frame
	SBHCS M8 x 55 mm	4 (2 on frame, 2 loose)	Hold table to frame
	M8 Washer	4 (2 on frame, 2 loose)	Hold table to frame
	SBHCS M8 x 16 mm	16 (8 on frame, 8 loose)	Hold braces/rail holders to frame
	5-ft Table Assembly	1	Hold the tracks on frame
	Corner Brace A	2 (1 on frame, 1 loose)	Secure frame
	Corner Brace B	2 (1 on frame, 1 loose)	Secure frame
	Left Side Leg Assembly	1 (on frame)	Hold up frame
Right Side Leg Assembly	1 (loose)	Hold up frame	
Not Used to Take Apart Hoop Frame (But Needed to Assemble Elite-Frame)	Open-End Wrench 10 mm and 13 mm	1 (loose)	Install M8 nuts
	Open-End Wrench 14 mm and 17 mm	1 (loose)	Install M10 nuts; level the frame

Parts to Store or Toss Out

The following table lists the parts from your hoop frame that you can store or throw away, as these pieces are *not* used in the upgrade.

Part or Tool Name	Quantity
Take-Up Rail Assembly	1
Left Side Rail	1
Right Side Rail	1
Left Take-Up Rail Tower	1
Right Take-Up Rail Tower	1
Logo Plate	2
Take-Up Rail Clamp	3

Part or Tool Name	Quantity
Side Rail Clamp	2
Rolling Take-Up Rail Cap	1
Hoop Frame Cloth Leaders	1
Frame Reference Card Hook	1

Taking Apart the Hoop Frame

Task 1 - Removing All Quilting Components

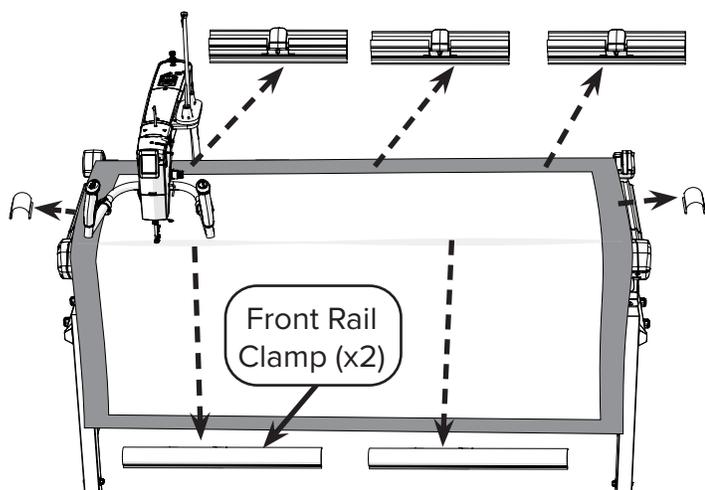
Instructions

Before you can install the upgrades to the Evolution Hoop-Frame, you must take apart some of the frame. Before you do that, you need to remove all quilting components from the frame.

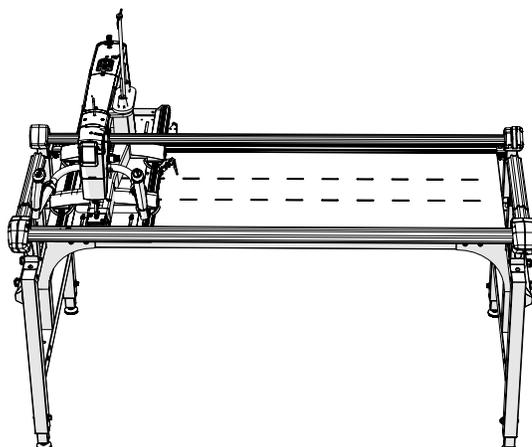
Note: Once you finish the upgrade, your frame will be set up *permanently* as a rolling frame. Therefore, if you're in the middle of quilting using the hoop setup, it's a good idea to finish your quilt before you take apart the hoop frame.

Take the following steps to remove the quilting materials from the frame:

- 1 Take the clamps off all the rails. Set the **front rail clamps** aside. You'll use them later.



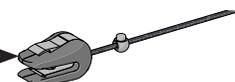
- 2 If you have a quilt on the frame, take it off and set it somewhere safe.



- 3 **Task Result:** All quilting materials are removed from your frame.

Note: The images in this manual don't show the four **bungee clamps** on the frame, to help keep the focus on the parts you're working with. If you find the bungee clamps are in the way as you complete the upgrade, you can remove them temporarily, but otherwise, you can leave them on the frame to use when the Elite-Frame is set up. See the hoop frame manual for more information on the bungee clamps.

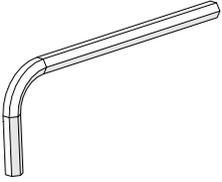
Bungee Clamp



Task 2 - Removing the Take-Up Rail

Parts & Tools Needed

Allen Wrench 6 mm
(with orig frame)

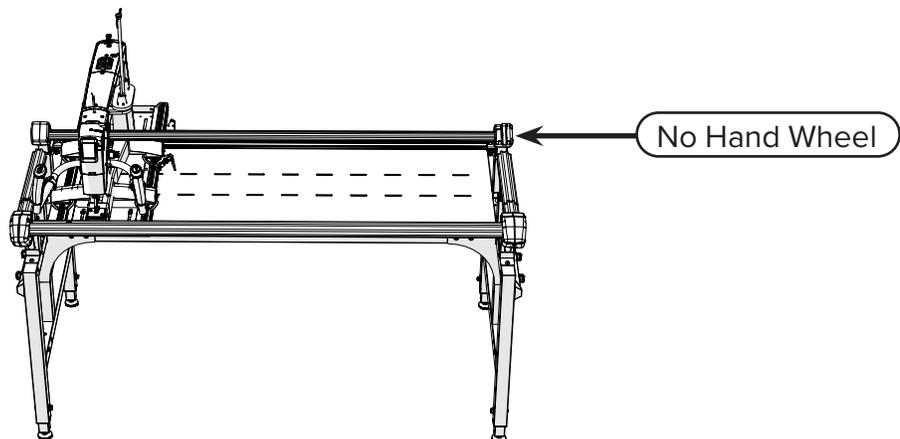


Instructions

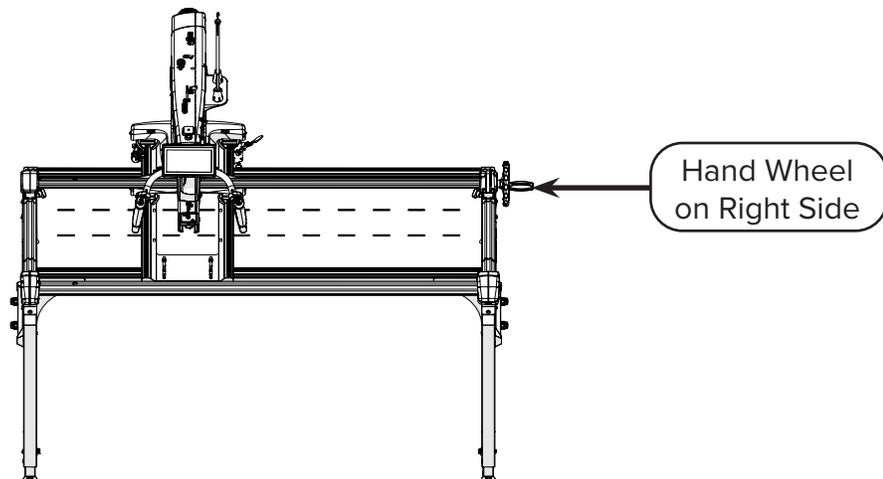
Next, you need to remove the take-up rail from the frame.

To remove the take-up rail, do one of the following:

- If your frame is currently in hoop setup, then go to “Hoop Setup” on page 6.



- If your frame is currently in rolling setup, then go to “Rolling Setup” on page 7.

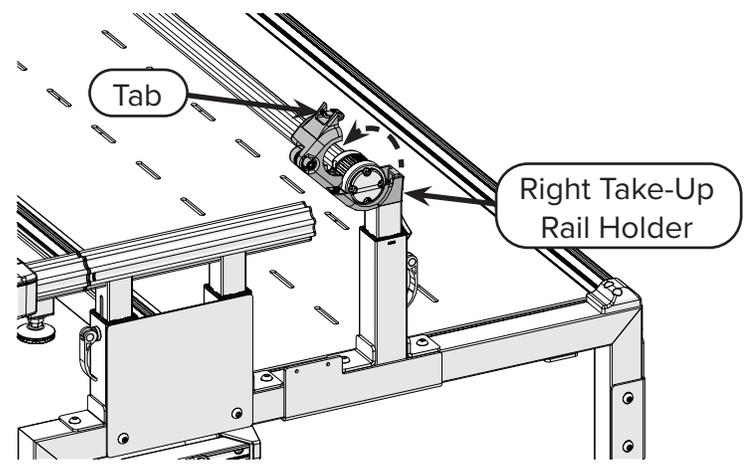


Taking Apart the Hoop Frame

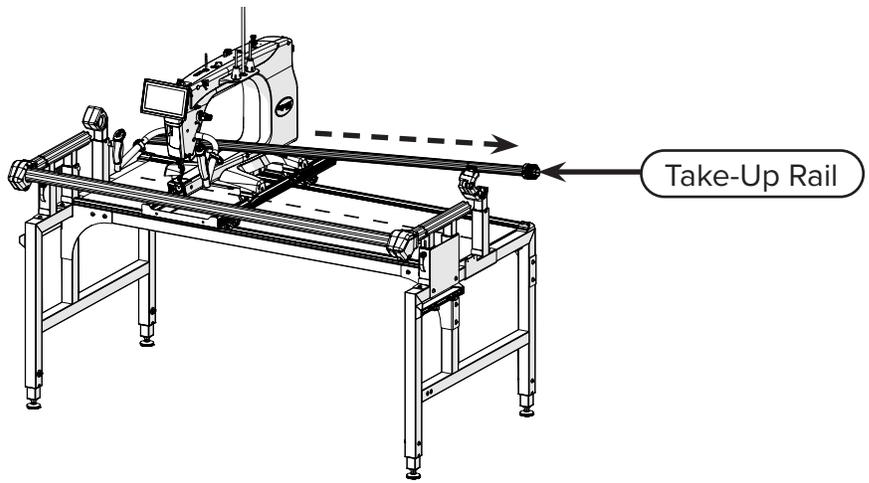
Task 2 - Removing the Take-Up Rail (continued)

Hoop Setup

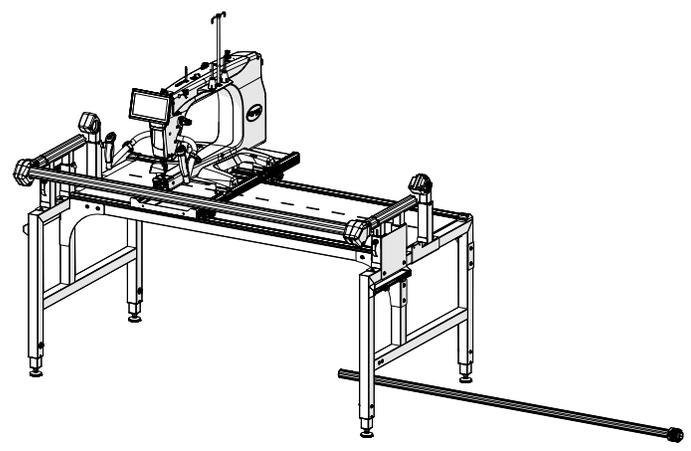
- 1 Push on the **tab** to open the **right take-up rail holder**.



- 2 Lift the **take-up rail** up and out of the holders. (If you want, you can close the rail holder when you're finished.)

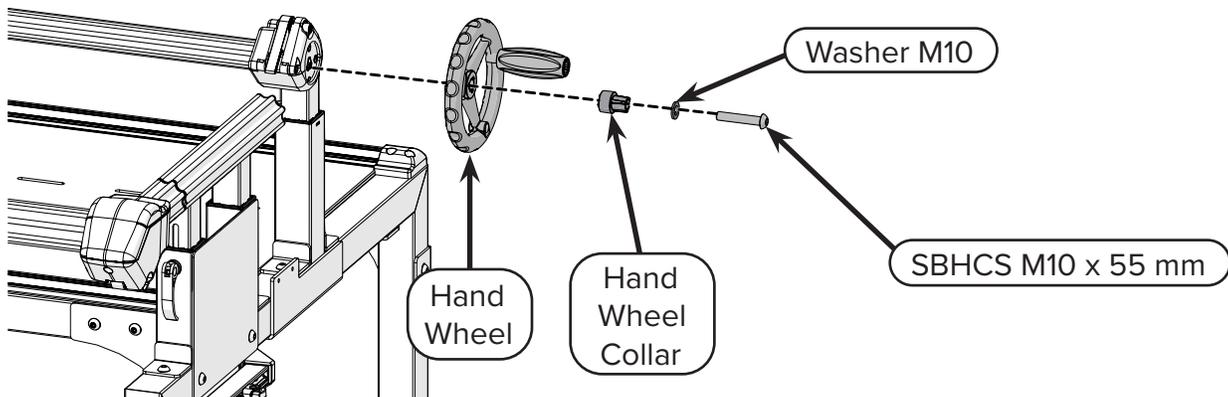


- 3 **Task Result:** The take-up rail has been removed from the frame.

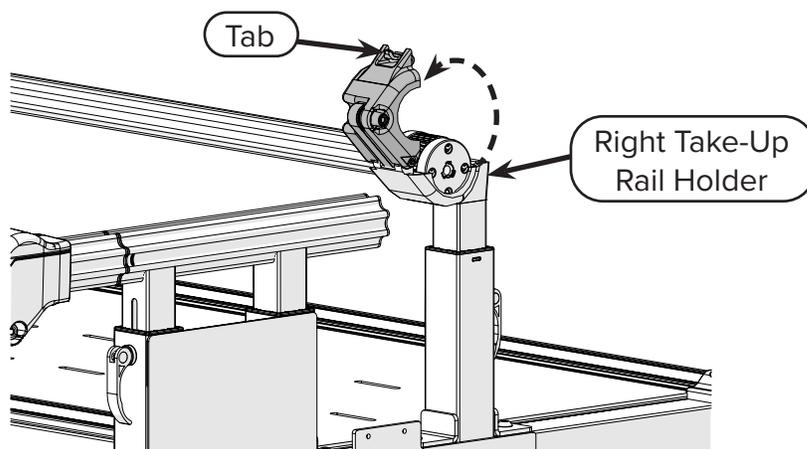


Rolling Setup

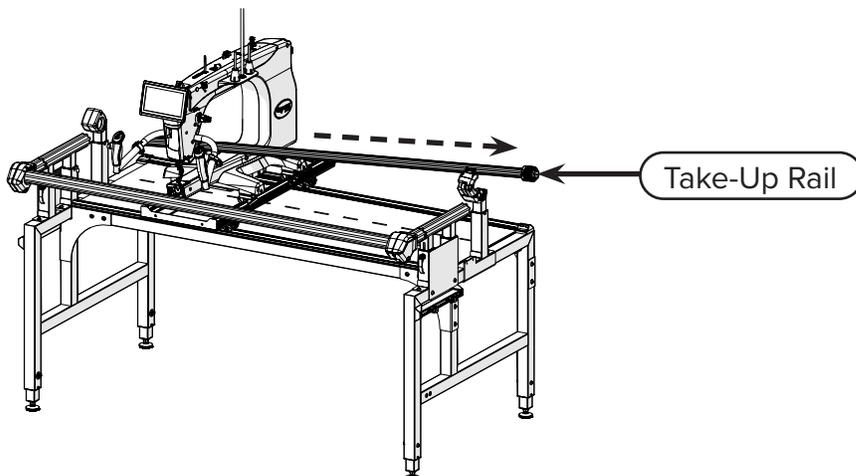
- 1 Remove the **hand wheel, hand wheel collar, M10 washer, and M10 x 55 mm SBHCS** with the 6 mm Allen wrench. Set these aside. You'll use them later.



- 2 Push on the **tab** to open the **right take-up rail holder**.



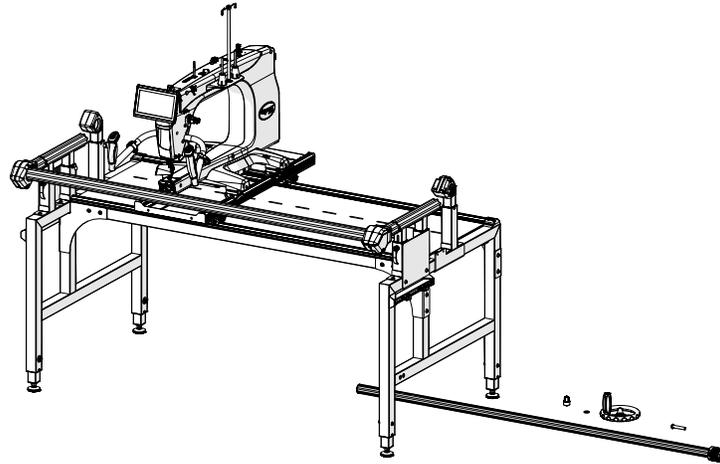
- 3 Lift the **take-up rail** up and out of the holders. (If you want, you can close the rail holder when you're finished.)



Taking Apart the Hoop Frame

Task 2 - Removing the Take-Up Rail (continued)

- 4 **Task Result:** The take-up rail has been removed from the frame. The hand wheel is set aside to be used later.



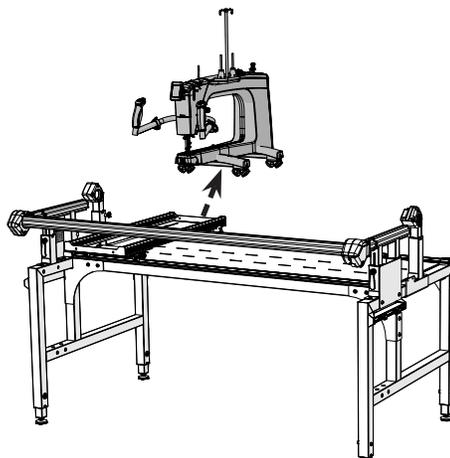
Task 3 - Removing the Machine

Instructions

The next thing to do is remove your machine and bottom carriage from the frame so they are out of the way during the upgrade.

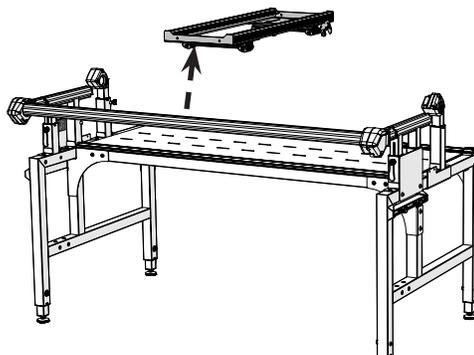
Take the following steps to complete this task:

- 1 With help from a friend, remove your machine and top plate (if applicable) from the frame. Set your machine somewhere nearby but out of the way.



Note: Your machine might be too heavy to move by yourself. Get help from a friend for this step!

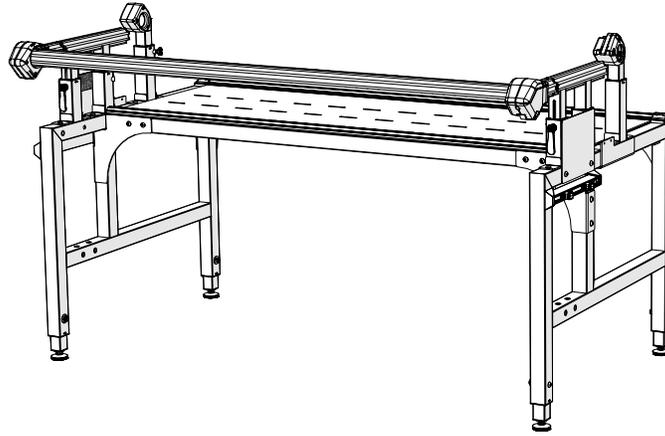
- 2 Take the bottom carriage off the frame. Set it somewhere nearby but out of the way.



Taking Apart the Hoop Frame

Task 3 - Removing the Machine (continued)

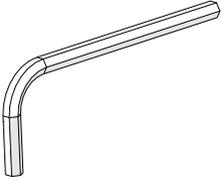
- Task Result:** Your machine and bottom carriage are removed from the frame and out of the way for the upgrade.



Task 4 - Preparing the Front Rail

Parts & Tools Needed

Allen Wrench 2.5 mm
(with orig frame)

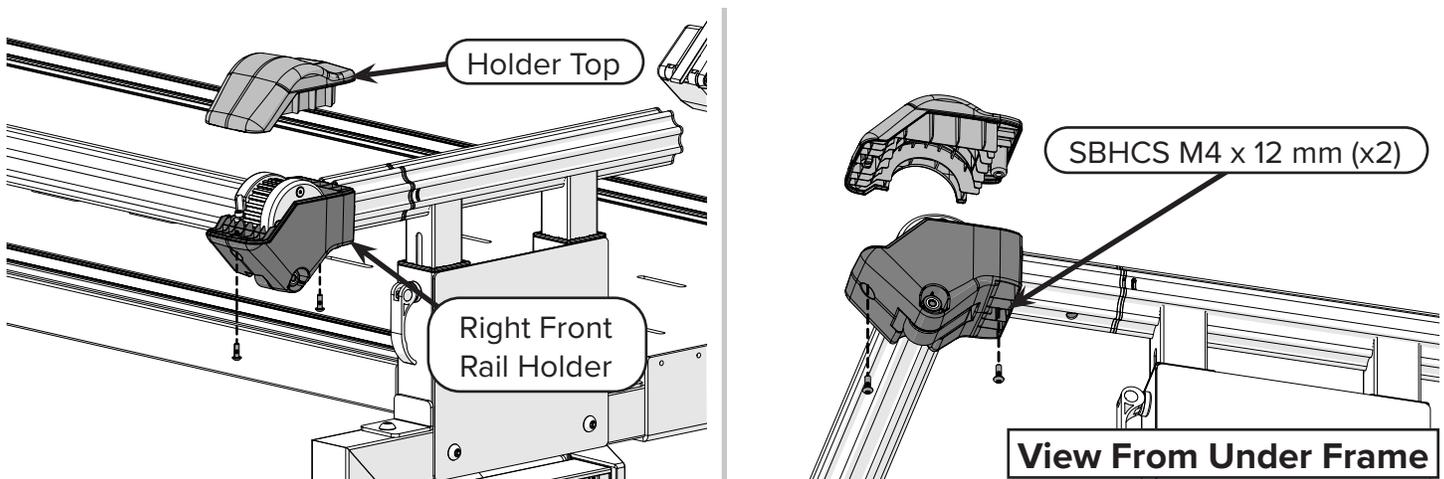


Instructions

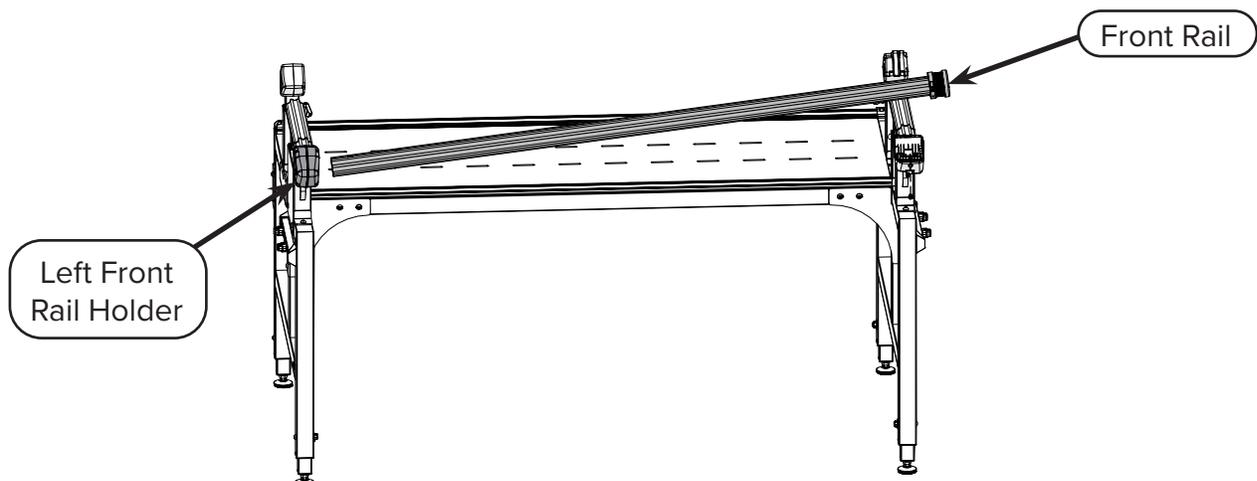
Now you need to remove and prepare the front rail for use in the upgrade.

Take the following steps to complete this task:

- 1 Use the 2.5 mm Allen wrench to remove the two **M4 x 12 mm SBHCS** from the bottom of the **right front rail holder** and then lift the **top** of the holder.



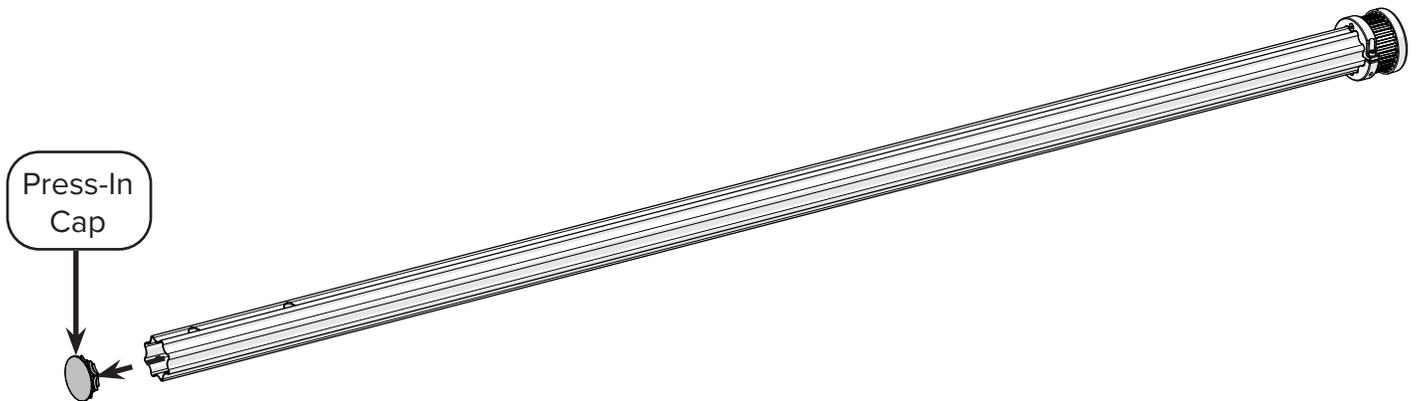
- 2 Lift the **front rail** up and then slide it out of the **left front rail holder**.



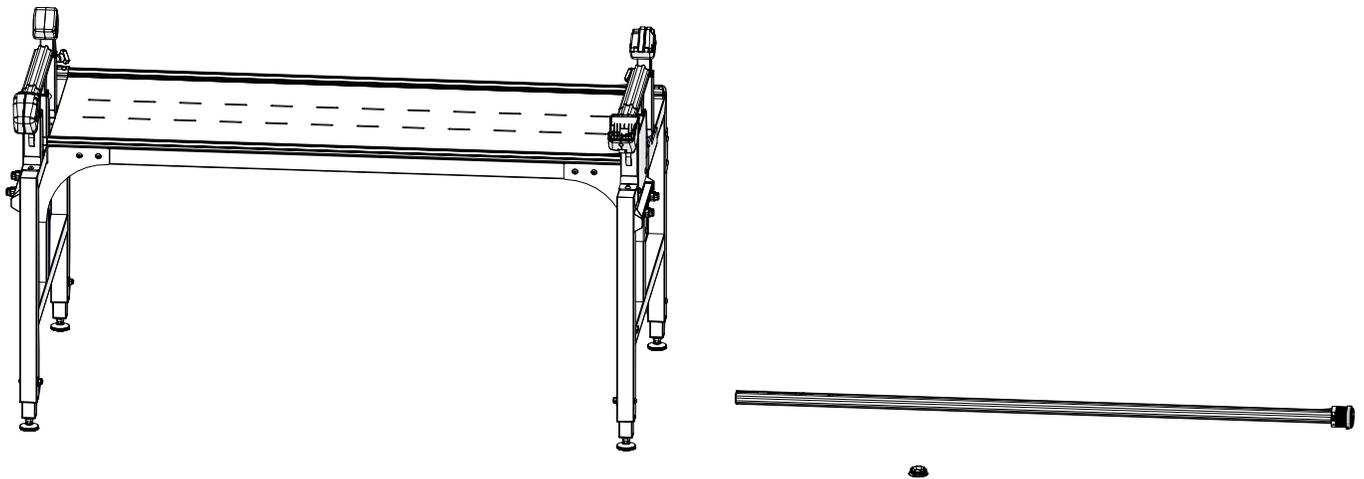
Taking Apart the Hoop Frame

Task 4 - Preparing the Front Rail (continued)

- 3 Pry the **press-in cap** out of the smaller end of the rail. Set both the rail and the cap aside. You'll use them later.



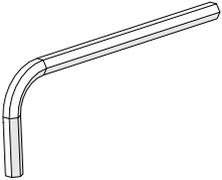
- 4 **Task Result:** The front rail is removed from the frame and prepared for the upgrade.



Task 5 - Removing the Side Rails & Rail Holders

Parts & Tools Needed

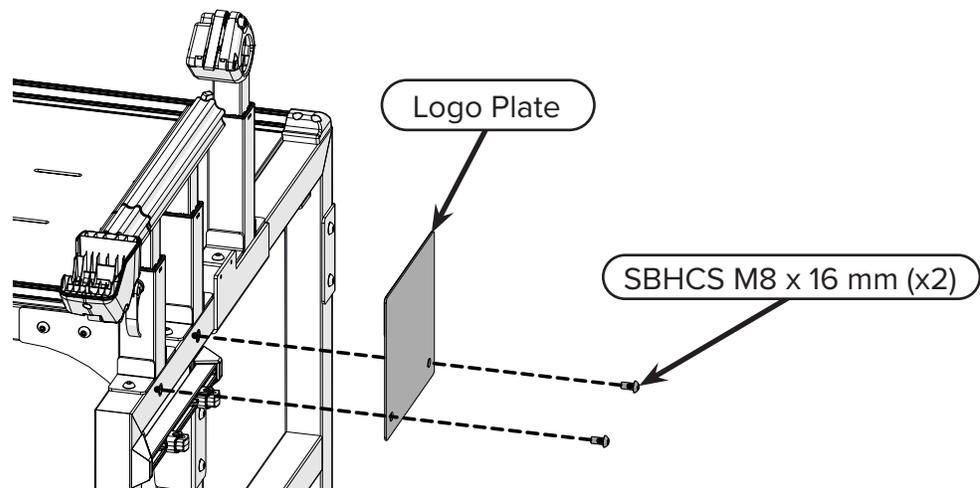
Allen Wrench 5 mm
(with orig frame)



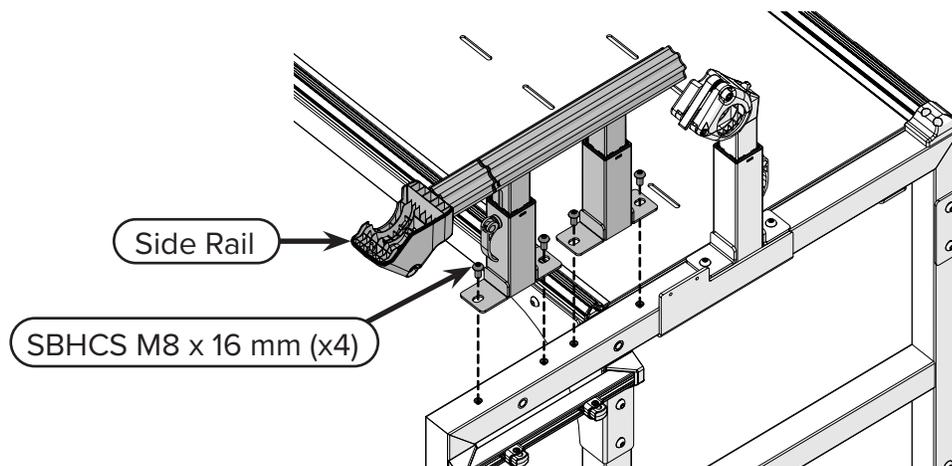
Instructions

Next, you need to remove the side rails and the take-up rail holders from the frame. With the Elite-Frame setup, you will be using a third rail, so you will install a different set of rail holders later, as well as a slightly different set of take-up rail holders. Take the following steps to remove the side rails and rail holders:

- 1 On the right side of the frame, use the 5 mm Allen wrench to remove the two **M8 x 16 mm SBHCS** that hold the **logo plate** to the side of the frame.



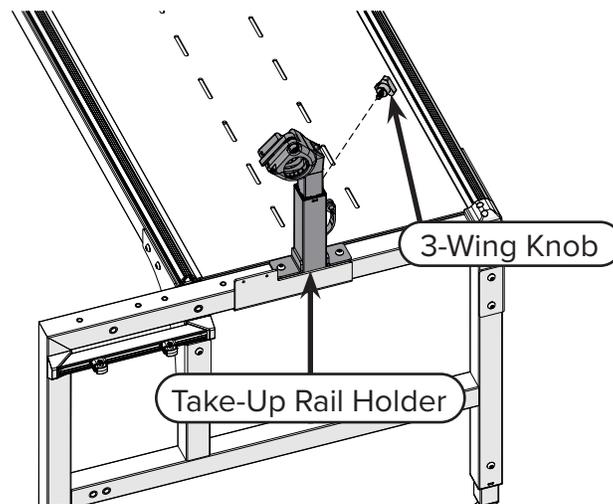
- 2 On that same side of the frame, use the Allen wrench to remove the four **M8 x 16 mm SBHCS** holding the **side rail** to the frame, and then remove the rail.



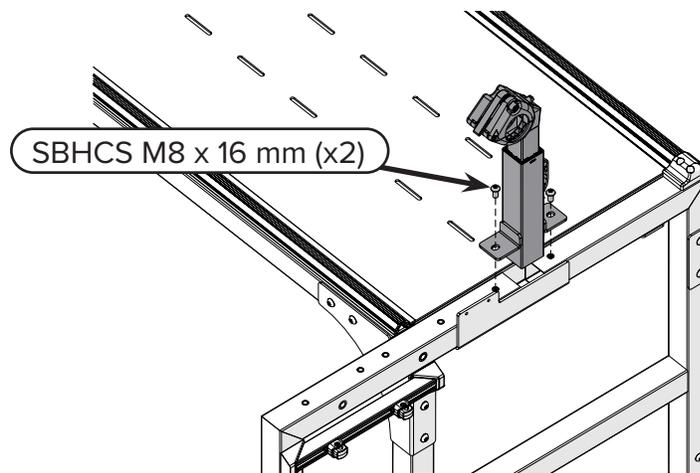
Taking Apart the Hoop Frame

Task 5 - Removing the Side Rails & Rail Holders (continued)

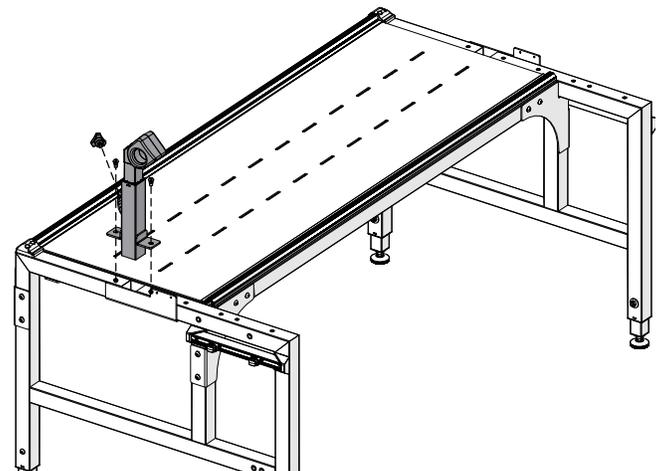
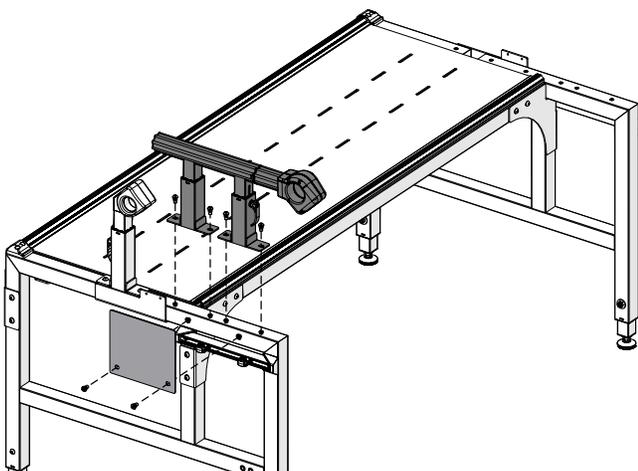
- 3 Unscrew the **3-wing knob** from the **take-up rail holder**. Set the knob aside. You'll use it later.



- 4 Use the 5 mm Allen wrench to remove the two **M8 x 16 mm SBHCS** that secure the take-up rail holder to the frame, and then remove the rail holder.

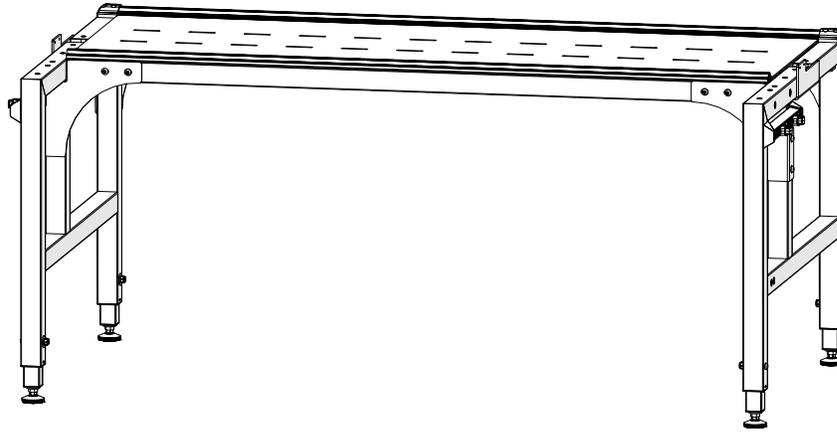


- 5 Repeat steps 1–4 with the left side of the frame, removing the logo plate, side rail, knob, and take-up rail holder.



Task 5 - Removing the Side Rails & Rail Holders (continued)

- 6 **Task Result:** The side rails, logo plates, knobs, and take-up rail holders have been removed from the frame.



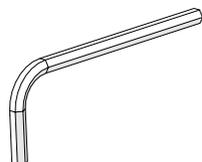
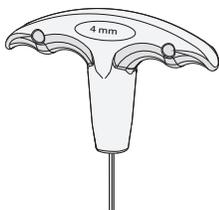
Taking Apart the Hoop Frame

Task 6 - Removing the Tracks

Parts & Tools Needed

T-handle Allen Wrench
4 mm (with orig frame)

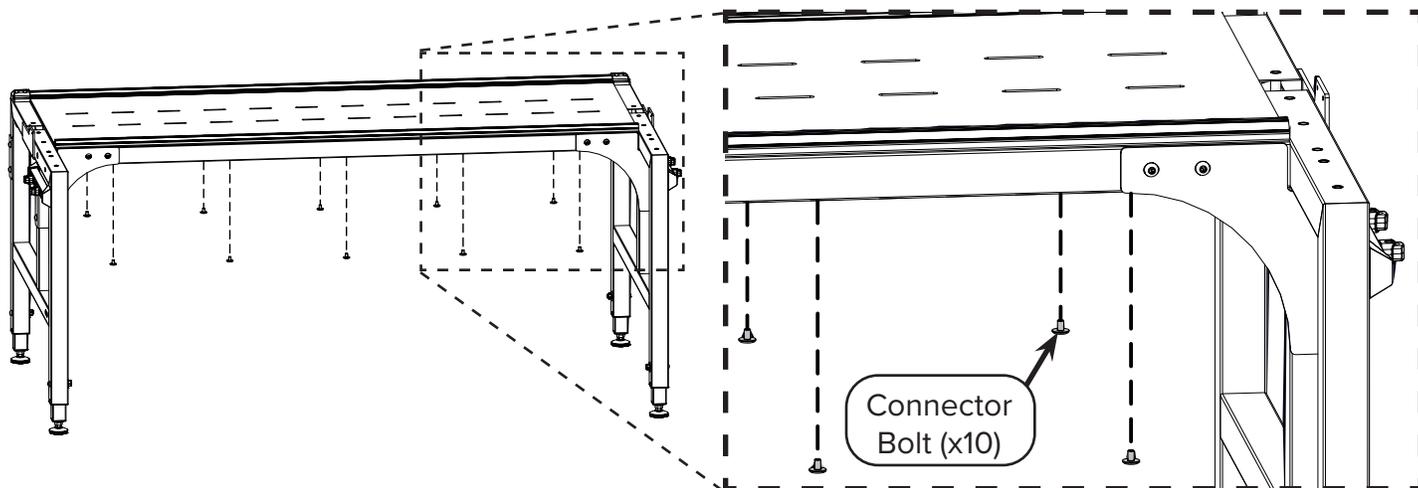
Allen Wrench 3 mm
(Box 4, Hardware)



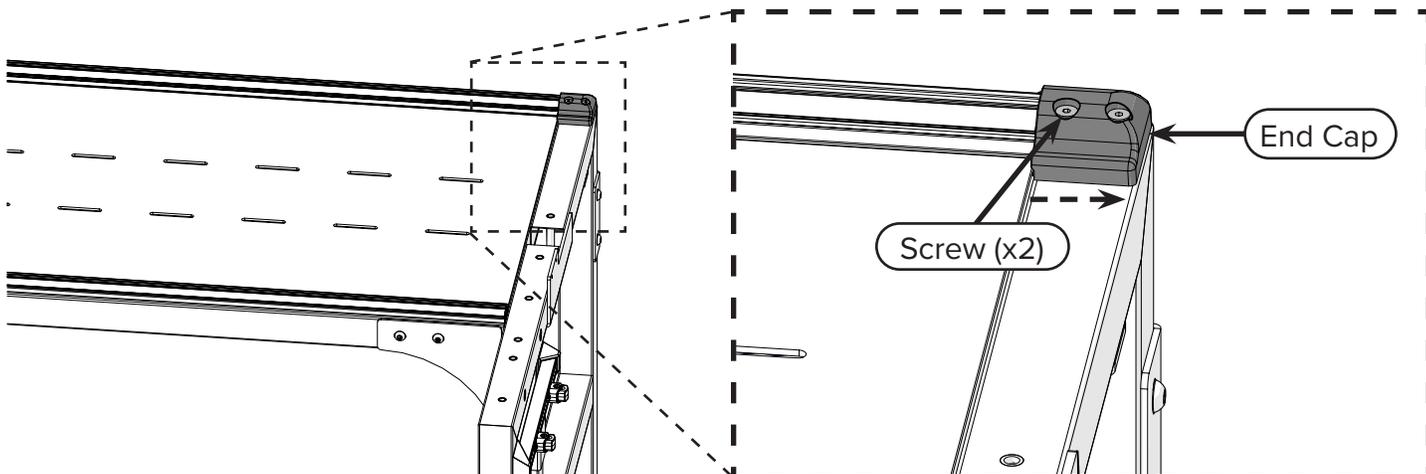
Instructions

Next, you need to remove the tracks from the frame. As part of making the frame longer, you'll be adding more tracks later. Do the following to remove the tracks:

- 1 Use the 4 mm Allen wrench to remove the ten **connector bolts** on the underside of the table. Set the connector bolts aside. You'll use them later.

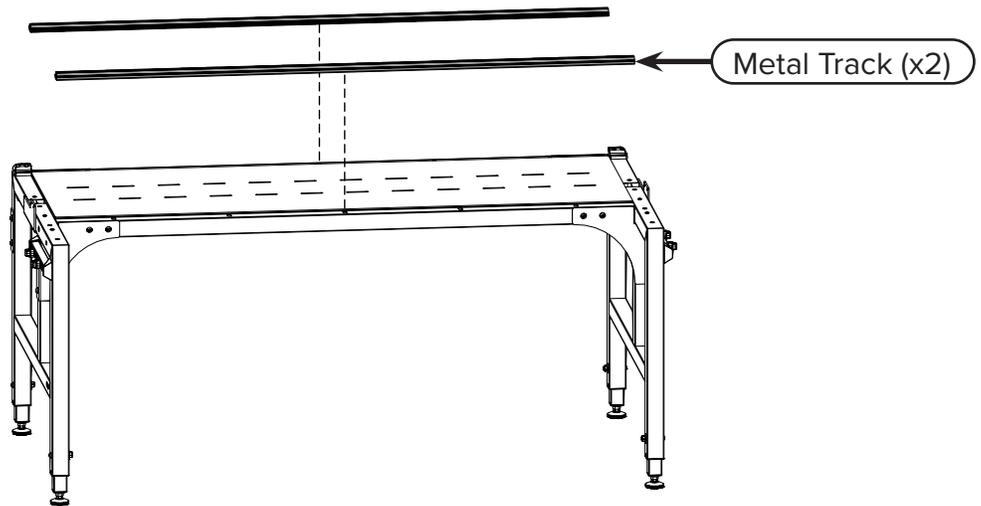


- 2 On the right side of the frame, use the 3 mm Allen wrench to *loosen*, but not remove, the two **screws** on the track **end cap** and shift the end cap slightly to the right.

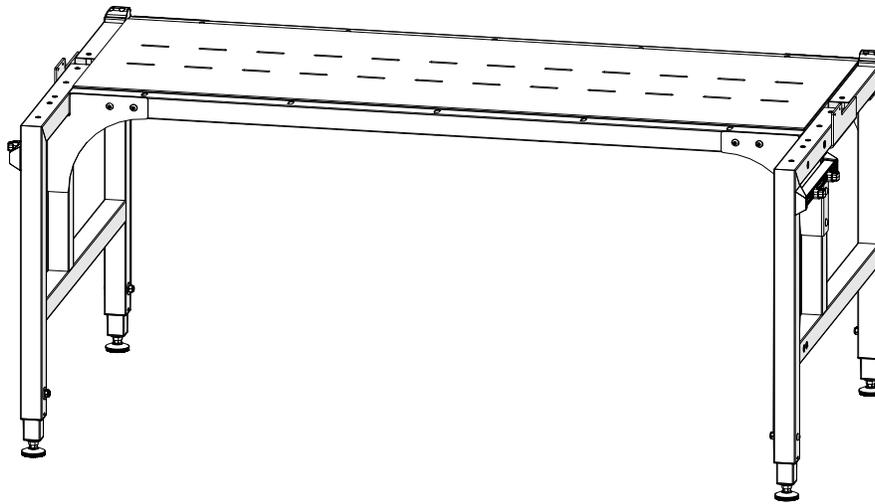


Task 6 - Removing the Tracks (continued)

- 3 Lift or slide the two 5-foot **metal tracks** off the table. Set the tracks aside. You'll use them later.



- 4 **Task Result:** The metal tracks are removed from the frame.



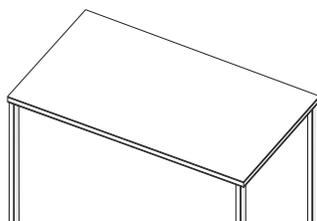
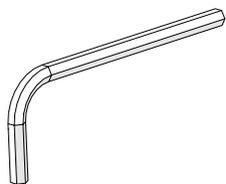
Taking Apart the Hoop Frame

Task 7 - Adjusting the Corner Braces & Legs

Parts & Tools Needed

Allen Wrench 5 mm

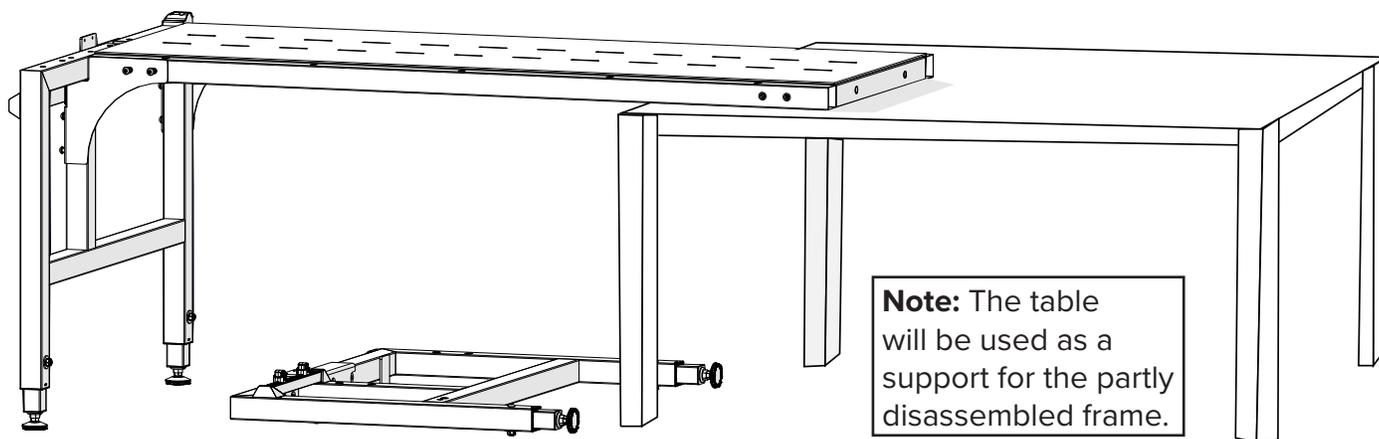
Table or Work Surface
(not included)



Instructions

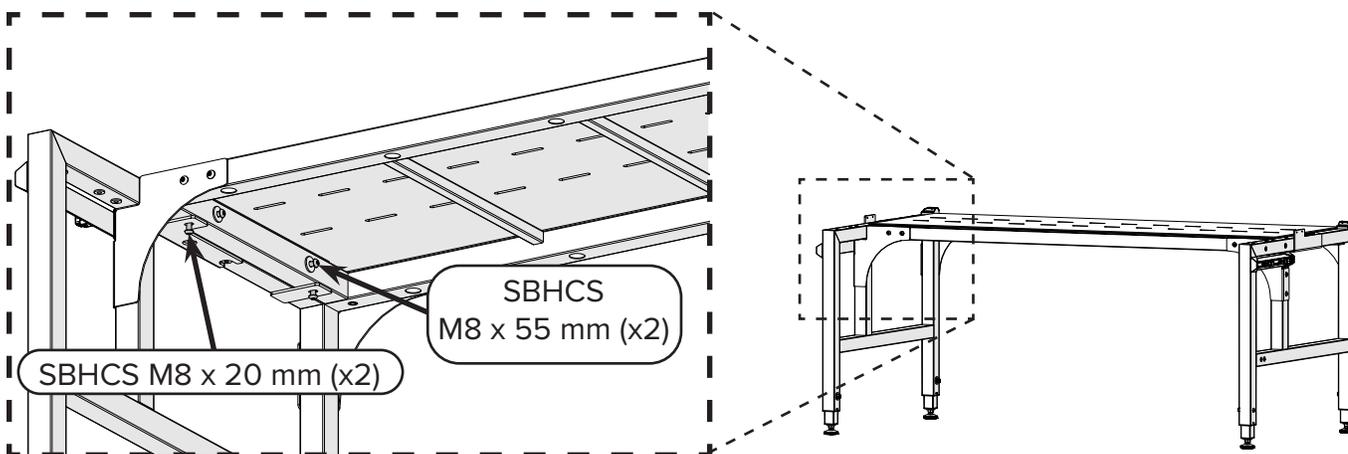
The corner braces and legs need to be adjusted because your Elite-Frame needs to have more pieces added to it. You'll need the corner braces and legs to be a bit wobbly while you complete the upgrade so that you can make sure the new parts are squared up with the original parts when you're finished.

Note: It's best to do this part of the preparation with a friend. If you are doing this by yourself, make sure to have a table or other raised, flat work surface nearby where you can rest the mostly disassembled frame. Even with a friend, you will still want the table nearby.



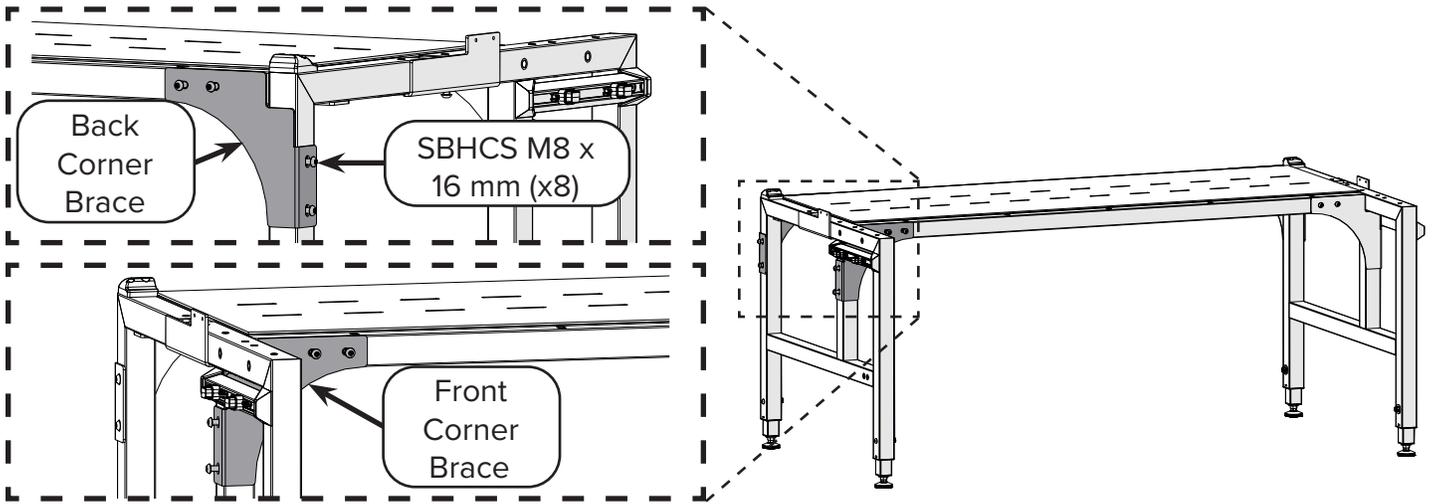
Do the following steps to adjust the corner braces and legs:

- 1 On the left side of the frame, use the 5 mm Allen wrench to *loosen*, but not remove, the two **M8 x 20 mm SBHCS** on the underside of the left leg, and the two **M8 x 55 mm SBHCS** on the side of the table assembly.



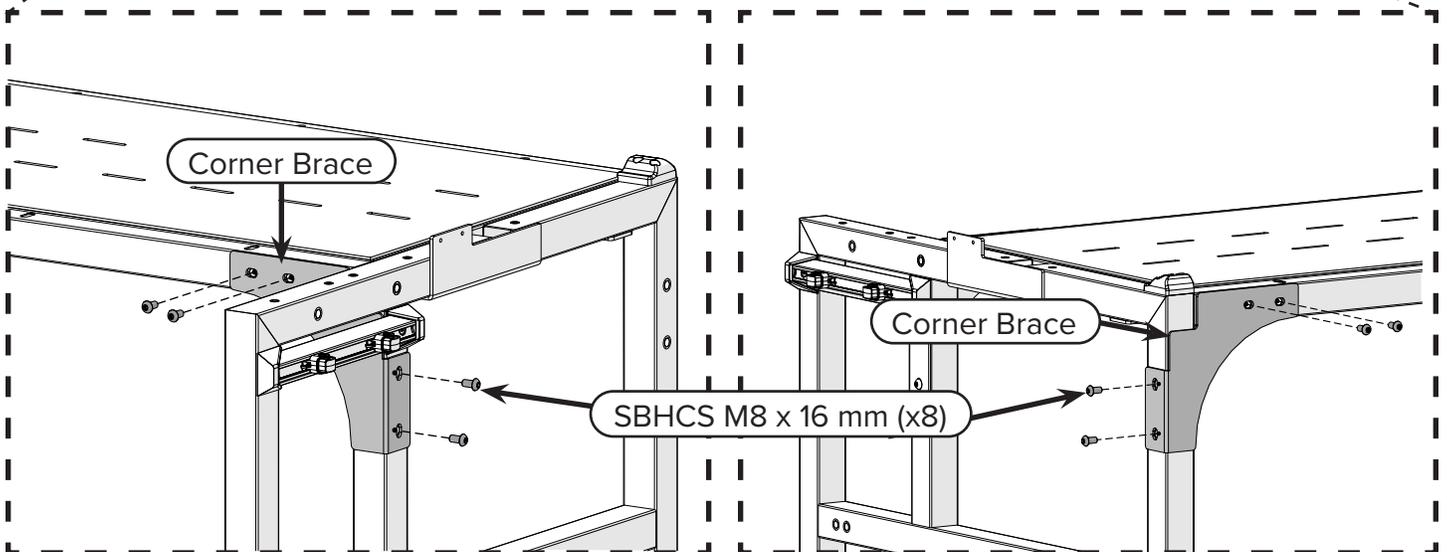
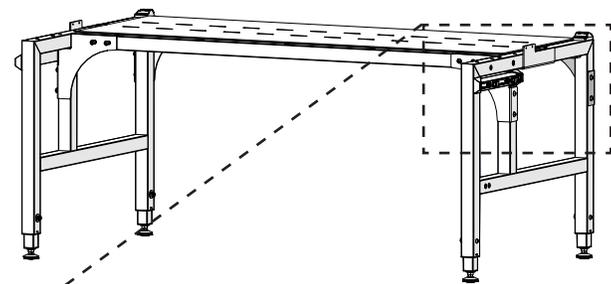
Task 7 - Adjusting the Corner Braces & Legs (continued)

- 2 On the left side of the frame, *loosen*, but do not remove, the four **M8 x 16 mm SBHCS** on each of the two **corner braces**.



- 3 On the right side of the frame, *fully remove* the four **M8 x 16 mm SBHCS** on each of the two **corner braces**. Set aside the corner braces and the screws. You'll use them later.

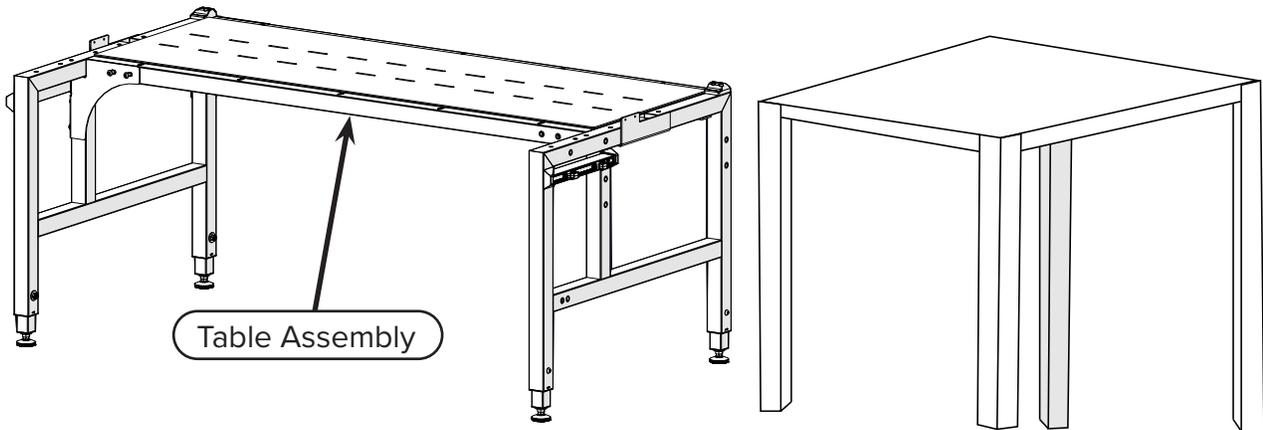
Note: Depending on how you have your hoop frame set up, the **reference card hook** might also come off with the front corner brace. You can keep it if you want, but the upgrade kit also includes a reference card hook, so you can discard the old one if you prefer.



Taking Apart the Hoop Frame

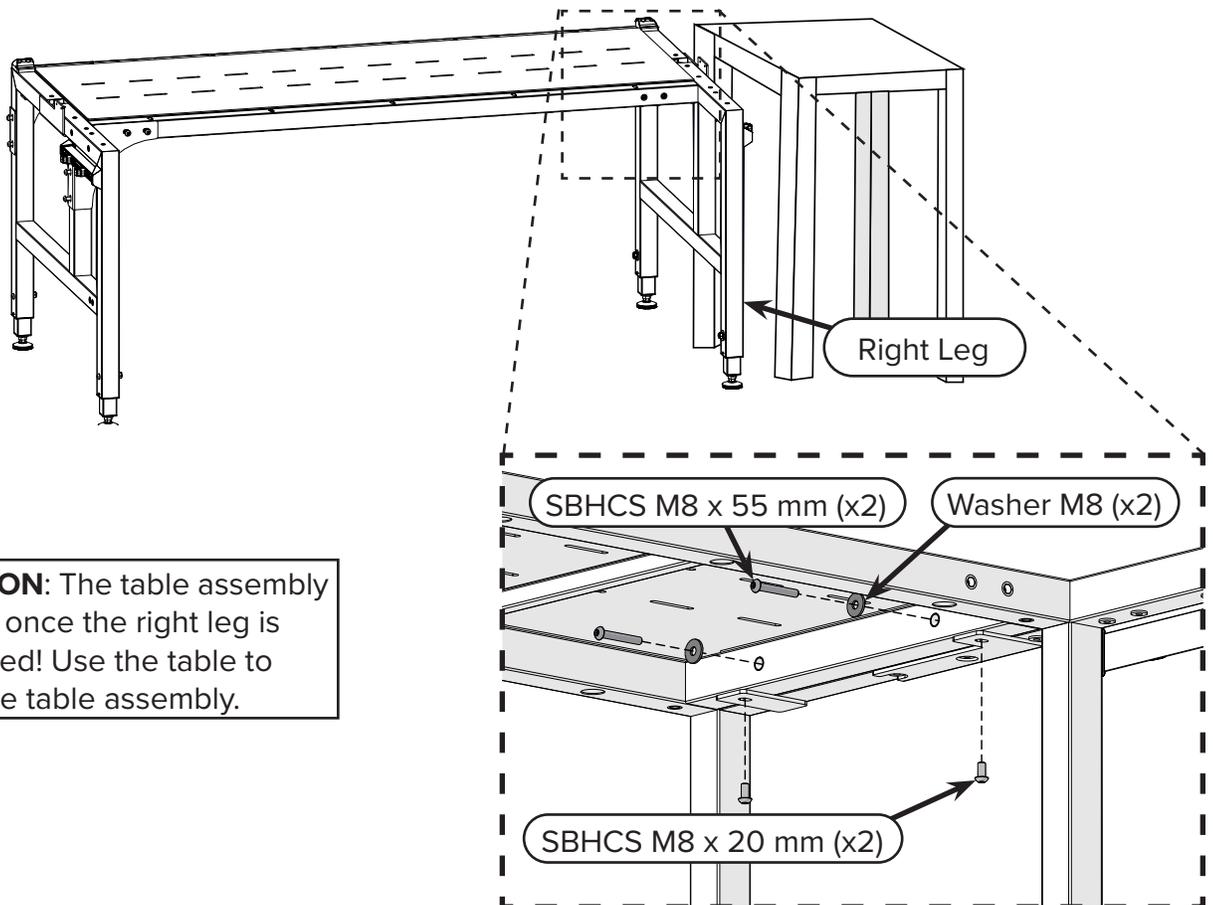
Task 7 - Adjusting the Corner Braces & Legs (continued)

- 4 Position the table near the right legs of the frame. You'll be setting the **table assembly** on the table instead of the leg at the end of the next step.



- 5 **CAUTION:** Do this step with the table prepared for you to set the table assembly on as soon as the leg is detached. You might want a friend's help for this step!

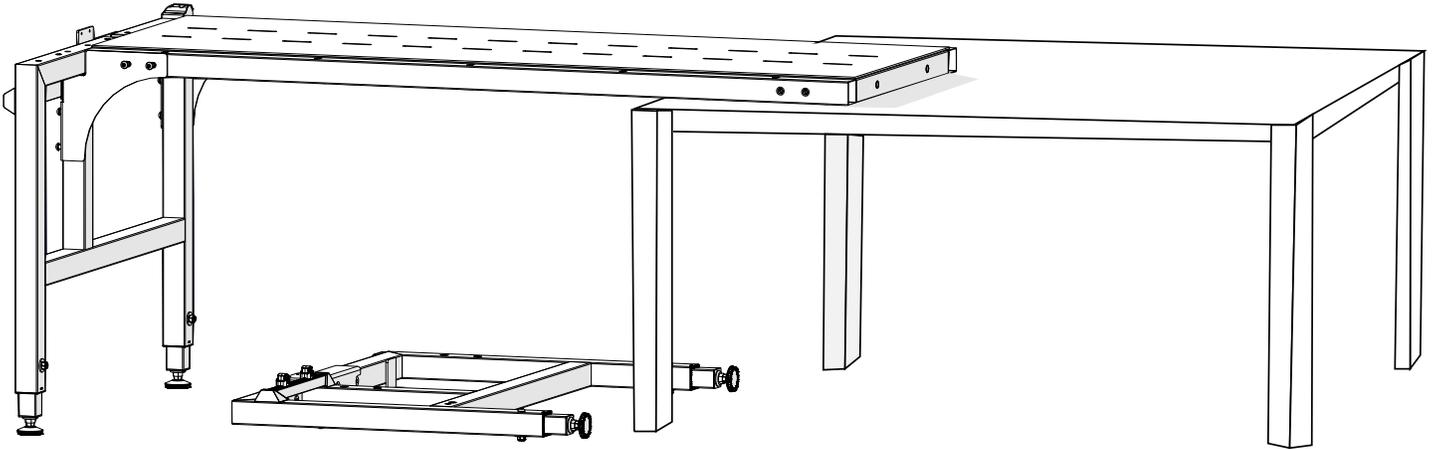
On the right side of the frame, use the 5 mm Allen wrench to *fully remove* the two **M8 x 20 mm SBHCS** on the underside of the right leg, and the two **M8 x 55 mm SBHCS** and two **M8 washers** on the side of the track assembly. The **right leg** comes off the table assembly. Put the table assembly on the table. Set aside the leg, the screws, and the washers. You'll use them all later.



CAUTION: The table assembly will fall once the right leg is detached! Use the table to hold the table assembly.

Task 7 - Adjusting the Corner Braces & Legs (continued)

- 6 **Task Result:** The right leg has been removed from the frame, and the left leg is only loosely attached to the track assembly. The table assembly is resting on a table or other work surface.



Congratulations! You have completed taking apart the Evolution Hoop-Frame.

Next, you need to assemble the Evolution Elite-Frame upgrade that you purchased. Do one of the following:

- If you purchased the 8-foot Evolution Elite-Frame (the 3-Foot Extension kit), then go to “Completing the Hoop Frame to 8-Foot Elite-Frame Upgrade” on page 23.
- If you purchased the 10-foot Evolution Elite-Frame (the 5-Foot Extension kit), then go to “Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade” on page 41.
- If you purchased the 12-foot Evolution Elite-Frame (the 7-Foot Extension kit), then go to “Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade” on page 61.

Note: If your original frame is the 8-Foot or 10-Foot Evolution Elite-Frame, then these instructions don't apply to you. Go to "Preparing to Upgrade An Elite-Frame" on page 82 for the first set of instructions you need.

Completing the Hoop Frame to 8-Foot Elite-Frame Upgrade

Progress Checkpoint

Before you begin assembling your frame, make sure:

- You purchased the 3-Foot Extension kit. You must have boxes 4 and 5. If you have other boxes in your upgrade kit, then you have purchased a different size of upgrade kit. If you have boxes 4 and 6, then go to "Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade" on page 41. If you have boxes 4, 6 and 7, then go to "Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade" on page 61.
- You have taken apart the Evolution Hoop-Frame, as instructed in "Taking Apart the Hoop Frame" on page 1.

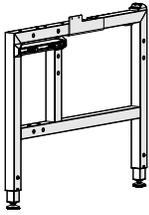
Task 1 - Setting the Height of the Middle Leg	24
Task 2 - Assembling the Tracks	27
Task 3 - Installing the Table	32
Task 4 - Attaching the Braces	35

Completing the Hoop Frame to 8-Foot Elite-Frame Upgrade

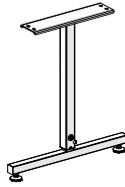
Task 1 - Setting the Height of the Middle Leg

Parts & Tools Needed

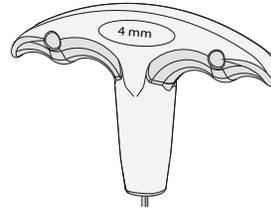
Right Leg
(with orig frame)



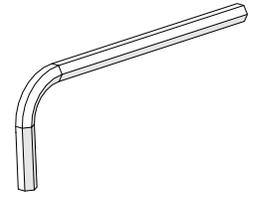
Middle Leg
(Box 5)



T-handle Allen Wrench
4 mm



Allen Wrench 5 mm



Open-End Wrench
10 mm and 13 mm
(with orig frame)

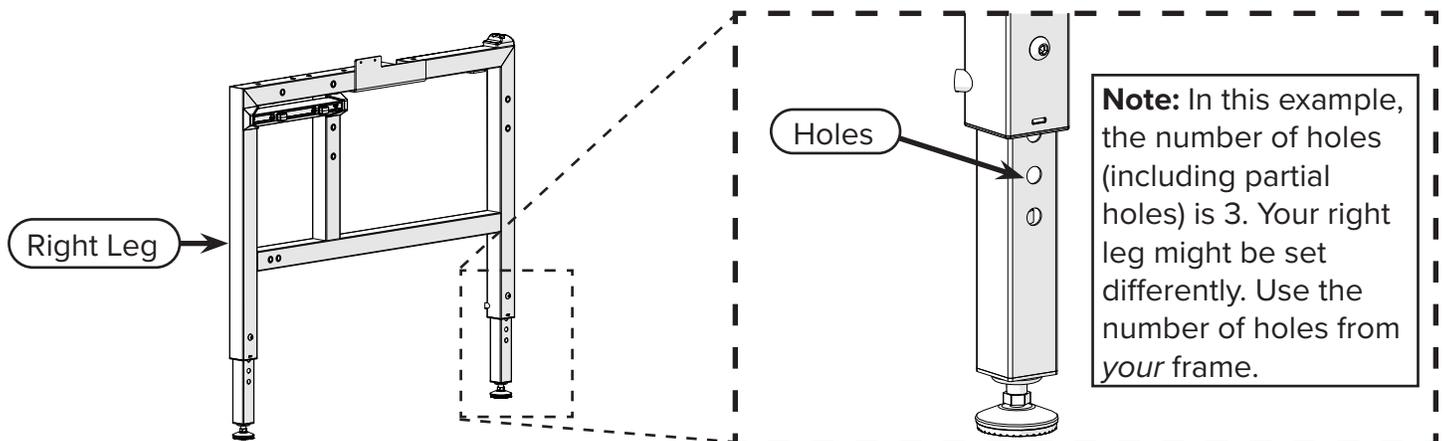


Instructions

Just as you needed to set the height of the legs when you assembled the original frame (so that the height would be comfortable during prolonged use), you must set the height of the middle leg before you put the frame together.

Do the following to set the height of the middle leg:

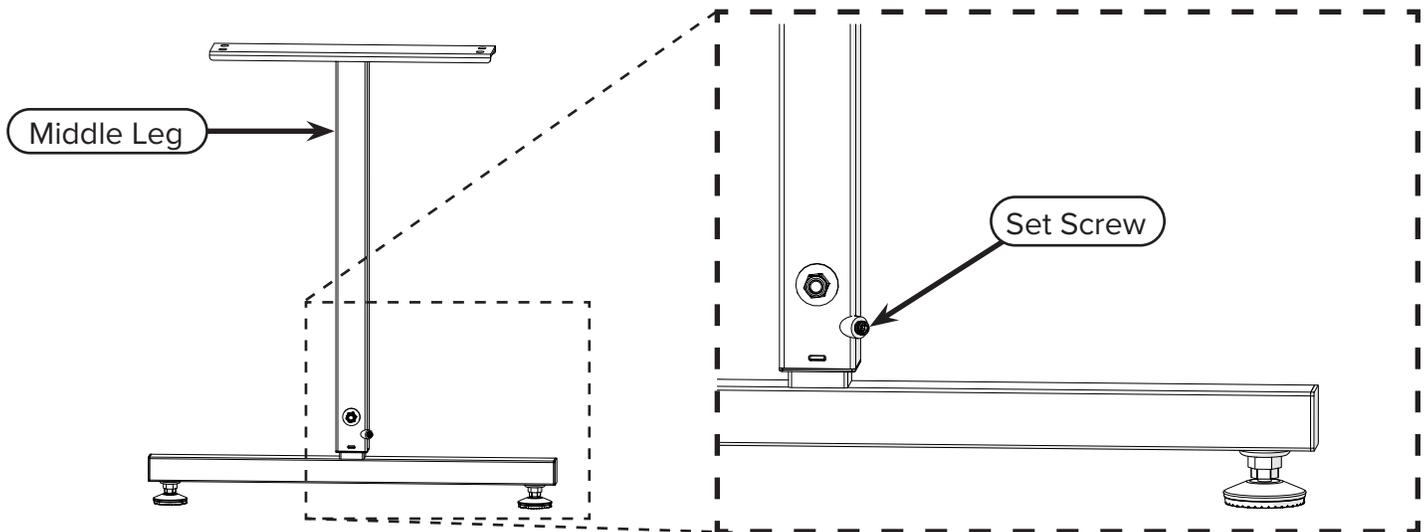
- 1 Locate the **right leg** of the frame (it's the one you just took completely off the frame), and examine it, noting how many **holes** you can see on each leg, including partial holes. Remember or write down the number.



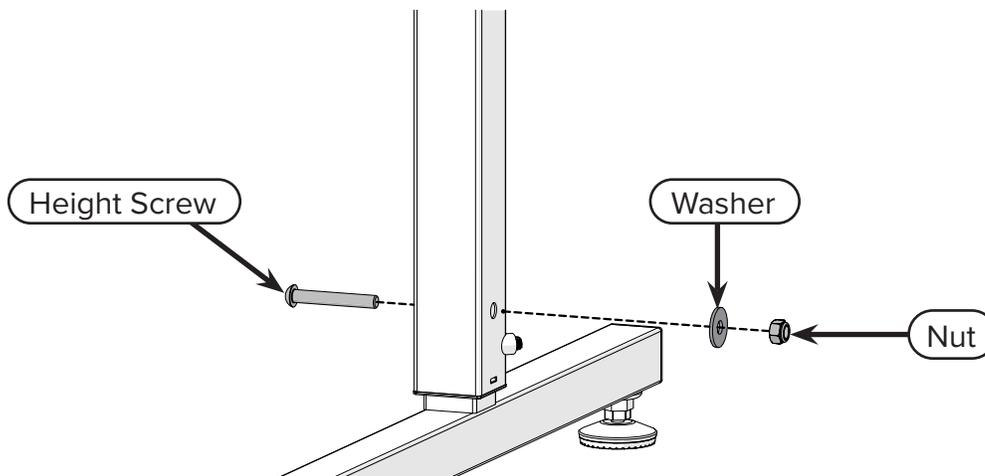
Completing the Hoop Frame to 8-Footer Elite-Frame Upgrade

Task 1 - Setting the Height of the Middle Leg (continued)

- 2 Loosen the **set screw** on the new **middle leg** with the 4 mm Allen wrench.

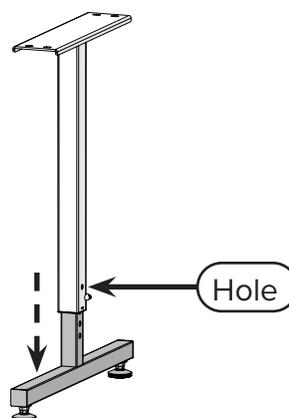


- 3 Remove the **height screw**, **washer**, and **nut** from the middle leg with the 5 mm Allen wrench and the 13 mm open-end wrench.



- 4 Pull out the bottom part of the middle leg until you can see the same number of **holes** as the other two legs, using the number of holes you noted on the right leg.

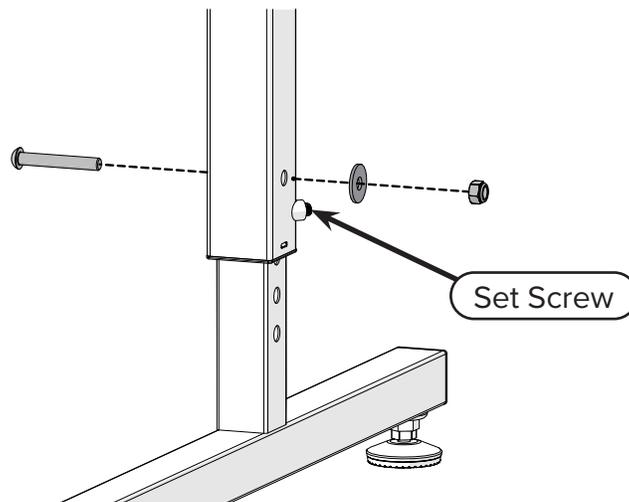
Note: In this example, the height has been set so that 3 holes are visible under the leg. Your frame height might be different. Use the height of *your* frame.



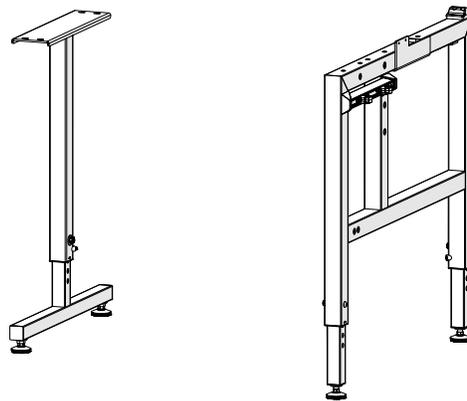
Completing the Hoop Frame to 8-Foot Elite-Frame Upgrade

Task 1 - Setting the Height of the Middle Leg (continued)

- 5 Reinstall the height screw, washer, and nut, and tighten the **set screw**.



- 6 **Task Result:** The middle leg is the same height as the other legs.



Task 2 - Assembling the Tracks

Parts & Tools Needed

5-ft tracks (x2)
(with orig frame,
removed earlier)



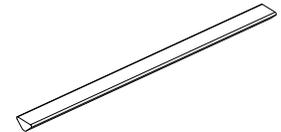
3-ft Table Assembly
(Box 5)



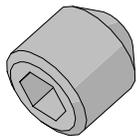
8-ft Plastic Track
(Box 5)



Track Support
Connector (x2)
(Box 5, Hardware)



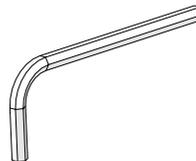
Socket CSS
M6 x 6 mm (x8)
(Box 5, Hardware)



T-handle Allen Wrench
4 mm



Allen Wrench 3 mm

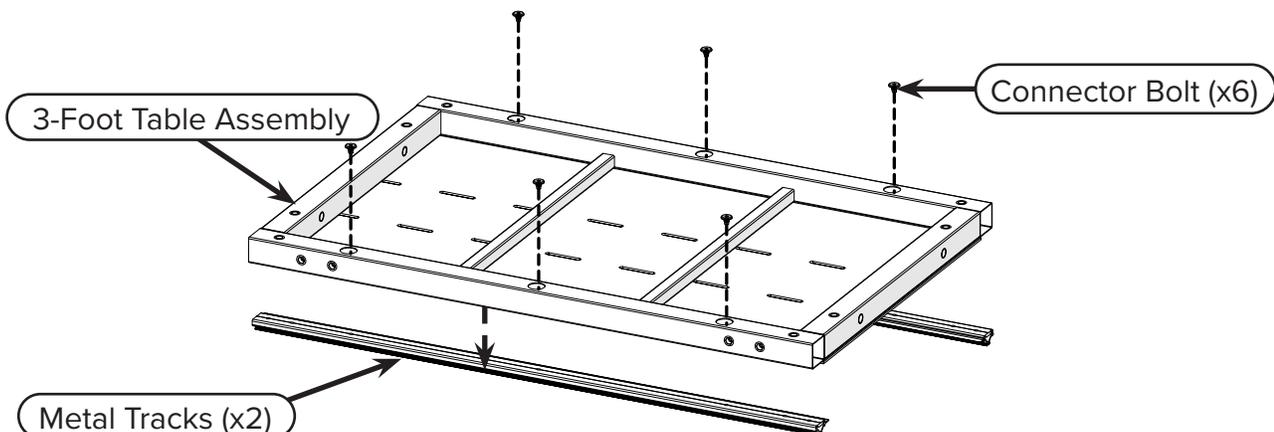


Instructions

To make the frame longer, you need to add more tracks to the ones you removed from the 5-foot frame. To protect the tracks during shipping, they are sent to you installed on the table assembly. However, for the optimal performance for your frame, you must partially take them apart and then reassemble the tracks.

Take the following steps to assemble the tracks:

- 1 Remove the six **connector bolts** installed on the underside of the **3-foot table assembly** with the 4 mm Allen wrench. The two 3-foot **metal tracks** are now separated from the table. Set the connector bolts aside. You'll use them later.



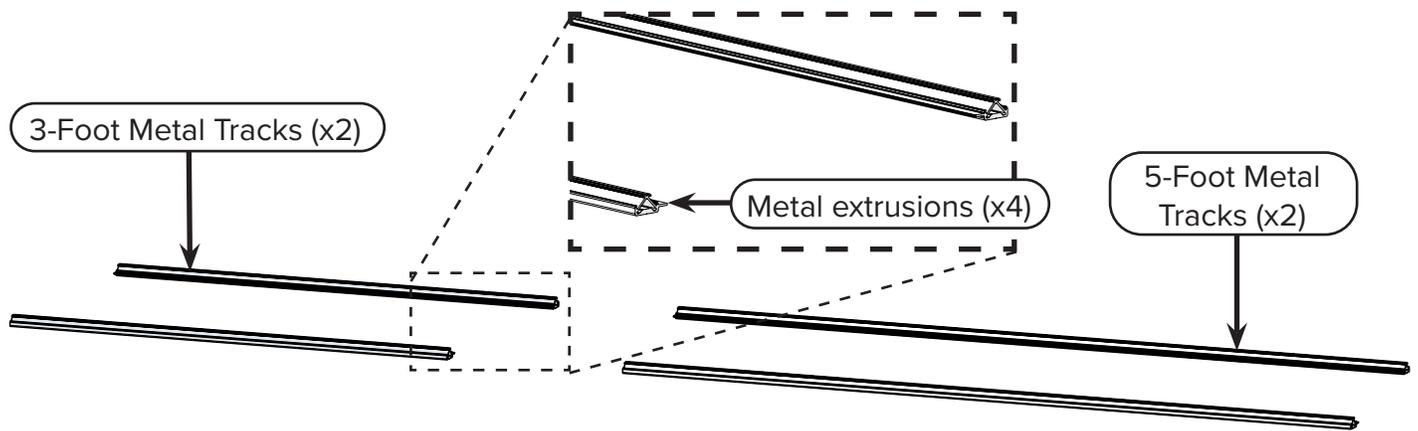
Completing the Hoop Frame to 8-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

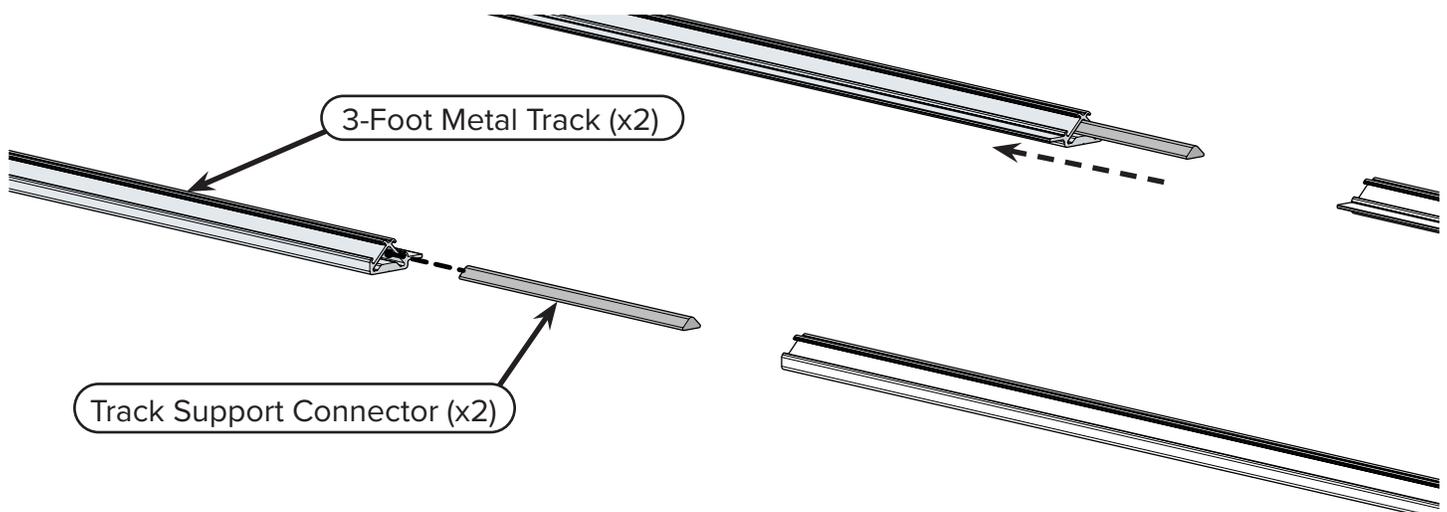
- 2 Locate the 5-foot metal tracks you removed earlier. Each of them has two **plastic tracks** installed in them. They were used for the hoop frame. Slide all four plastic tracks out of the metal tracks. You can discard the plastic tracks, as they aren't needed again.



- 3 Line up the **3-foot metal tracks** to the left of the **5-foot metal tracks**. Note the orientation of the **metal extrusions**, and make sure the extrusions face the inside of all the tracks.



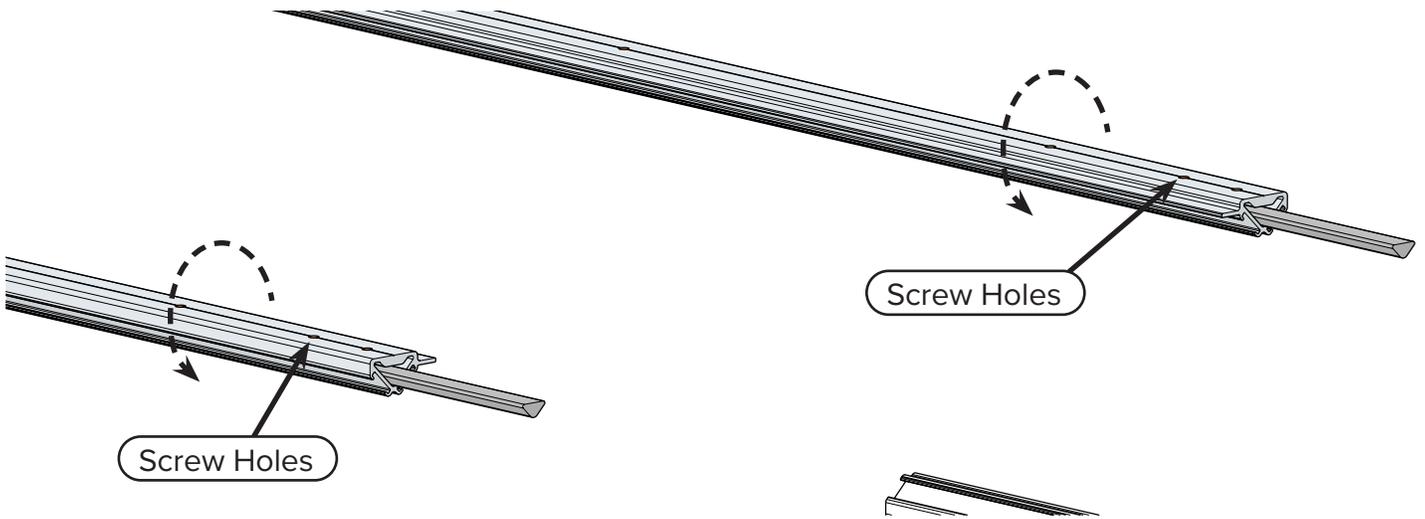
- 4 Place a **track support connector** halfway into each of the **3-foot metal tracks**.



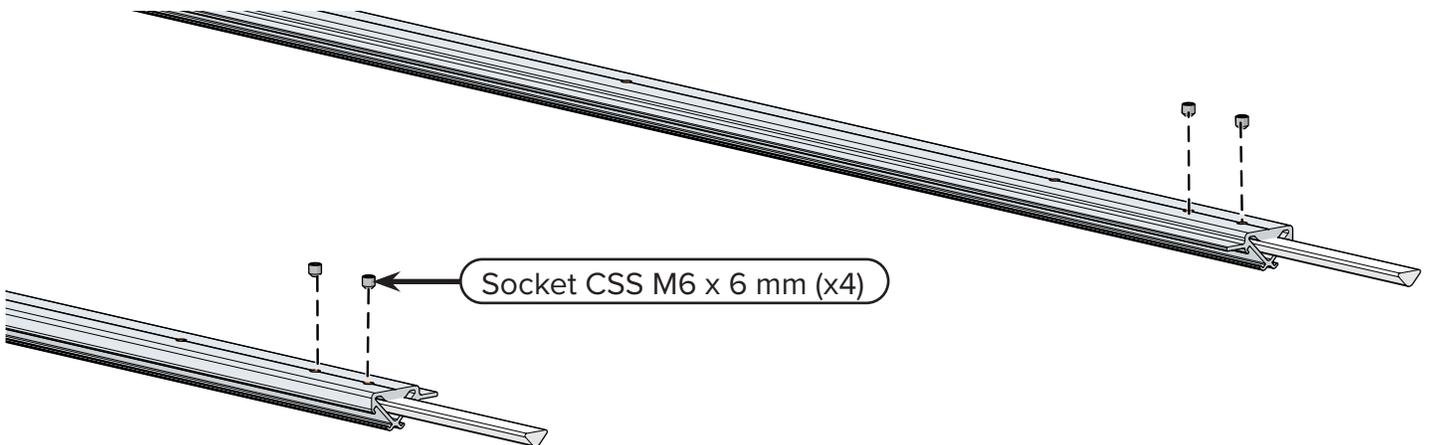
Completing the Hoop Frame to 8-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

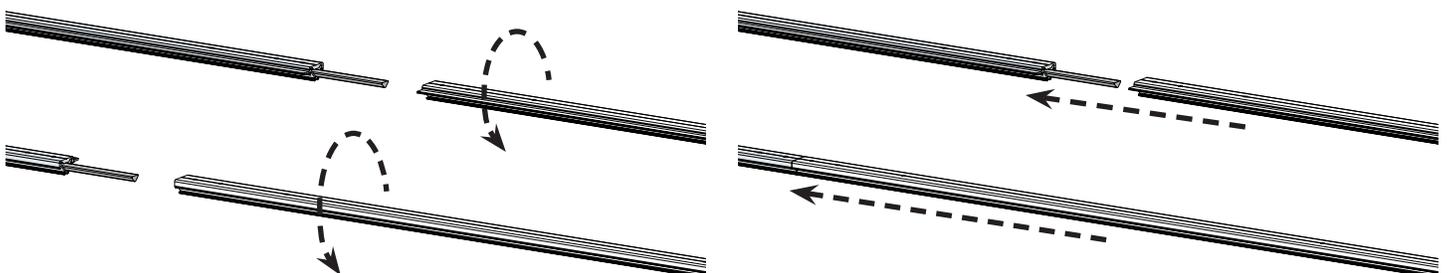
- 5 Carefully flip the 3-foot metal tracks to expose the **screw holes** at the bottom.



- 6 Use the 3 mm Allen wrench to install two **M6 x 6 mm Socket CSS** into each of the 3-foot metal tracks to hold the track support connectors in place.



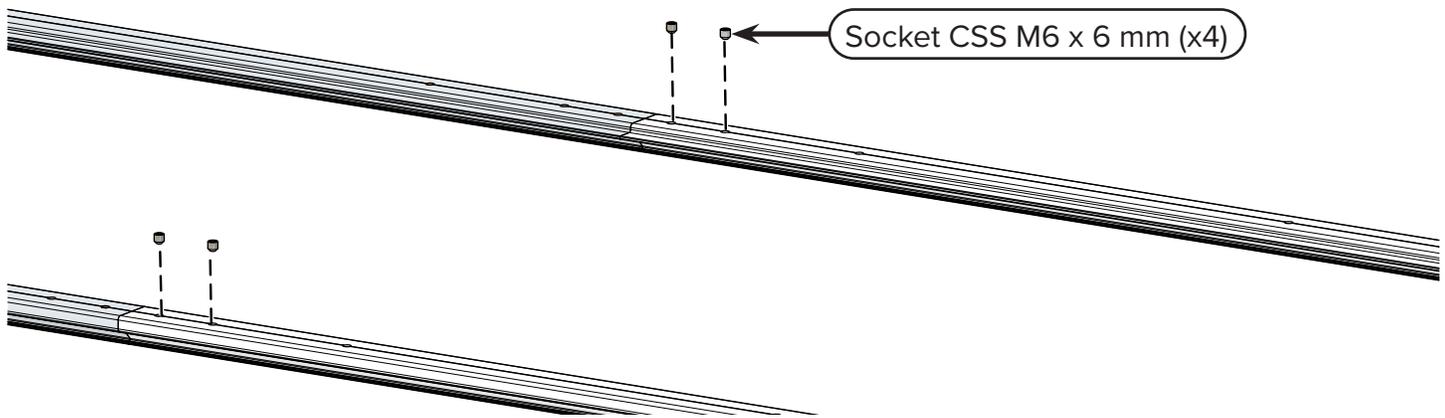
- 7 Flip the 5-foot metal tracks over, and then slide them onto the track support connectors.



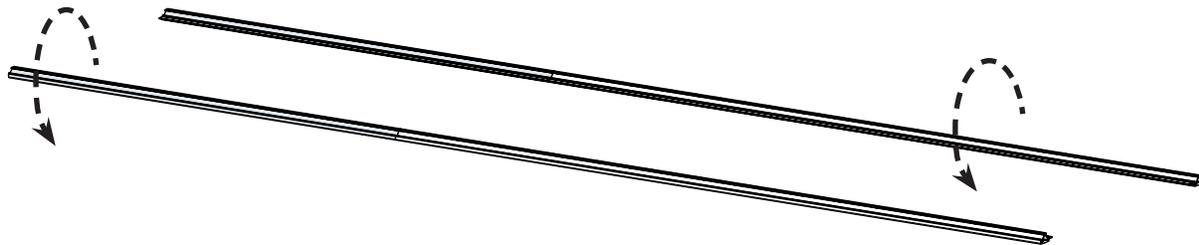
Completing the Hoop Frame to 8-Footer Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

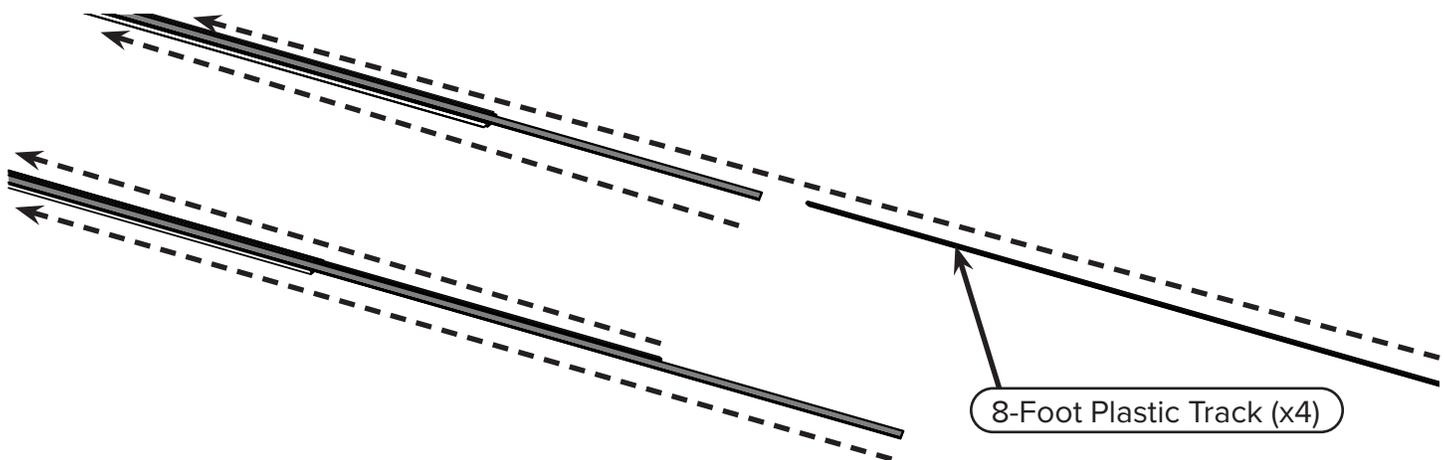
- 8 Use the 3 mm Allen wrench to install two **M6 x 6 mm Socket CSS** into each of the 5-foot metal tracks to secure them to the connectors.



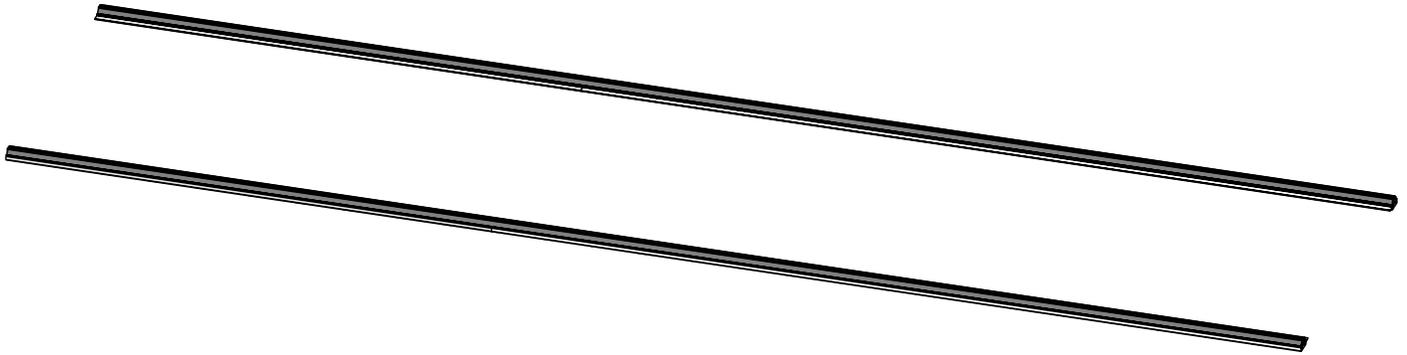
- 9 Flip the tracks over again.



- 10 Slide two **8-foot plastic tracks** into each metal track assembly.



11 **Task Result:** The 8-foot tracks are fully assembled. You'll put them on the frame later.

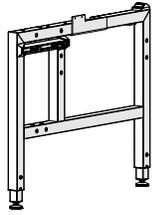


Completing the Hoop Frame to 8-Foot Elite-Frame Upgrade

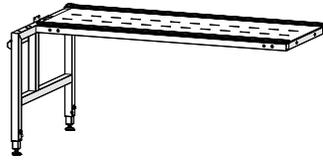
Task 3 - Installing the Table

Parts & Tools Needed

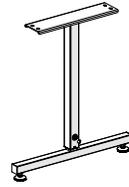
Right Leg



Left Leg with 5-ft Table



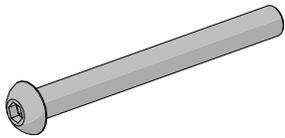
Middle Leg



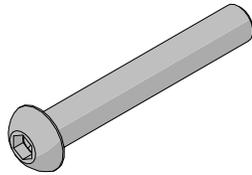
3-ft Table Assembly



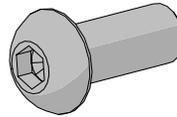
SBHCS M10 x 100 mm
(x2) (Box 5, Hardware)



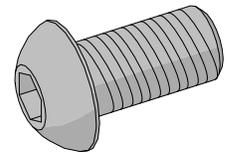
SBHCS M8 x 55 mm
(x2) (with orig frame)



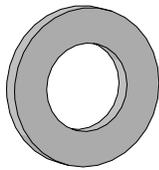
SBHCS M8 x 20 mm
(x2) (with orig frame)



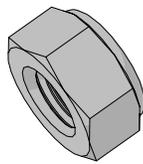
SBHCS M8 x 16 mm
(x4) (Box 5, Hardware)



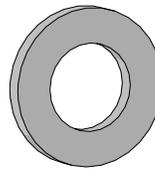
Washer M8 (x2)
(with orig frame)



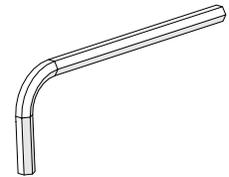
Nylock Nut M10 (x2)
(Box 5, Hardware)



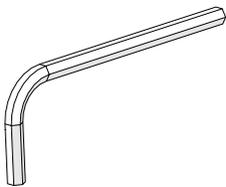
Washer M10 (x2)
(Box 5, Hardware)



Allen Wrench 6 mm



Allen Wrench 5 mm



Open-End Wrench
14 mm and 17 mm
(with orig frame)



Instructions

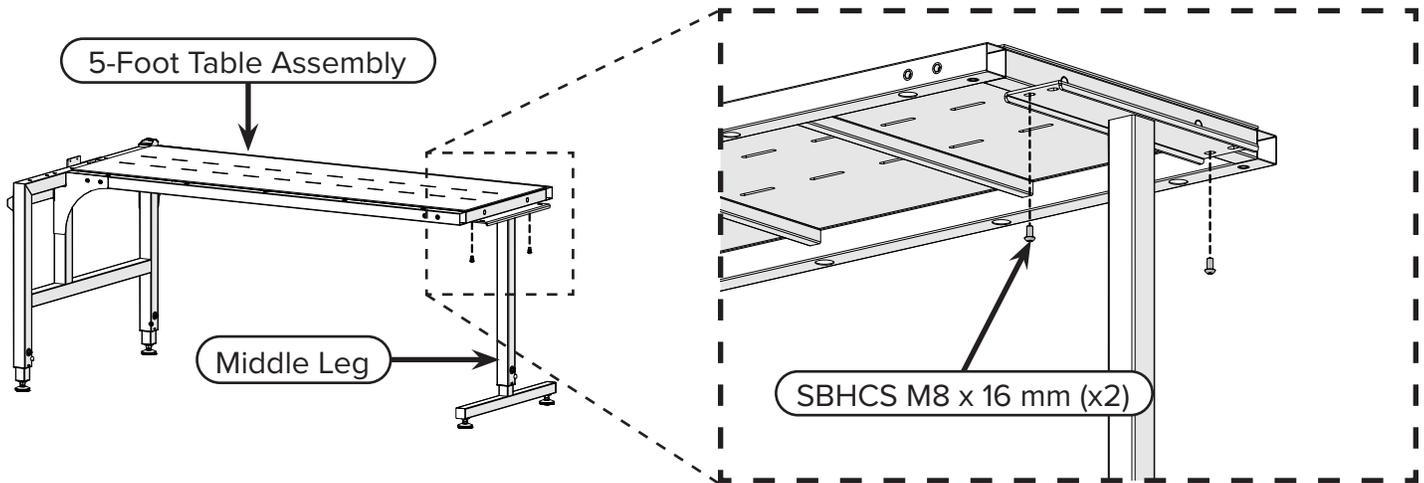
Next you're going to assemble the new "bones" of the frame, adding the middle leg and the 3-foot table to the frame.

With help from a friend, take the following steps to install the 3-foot table:

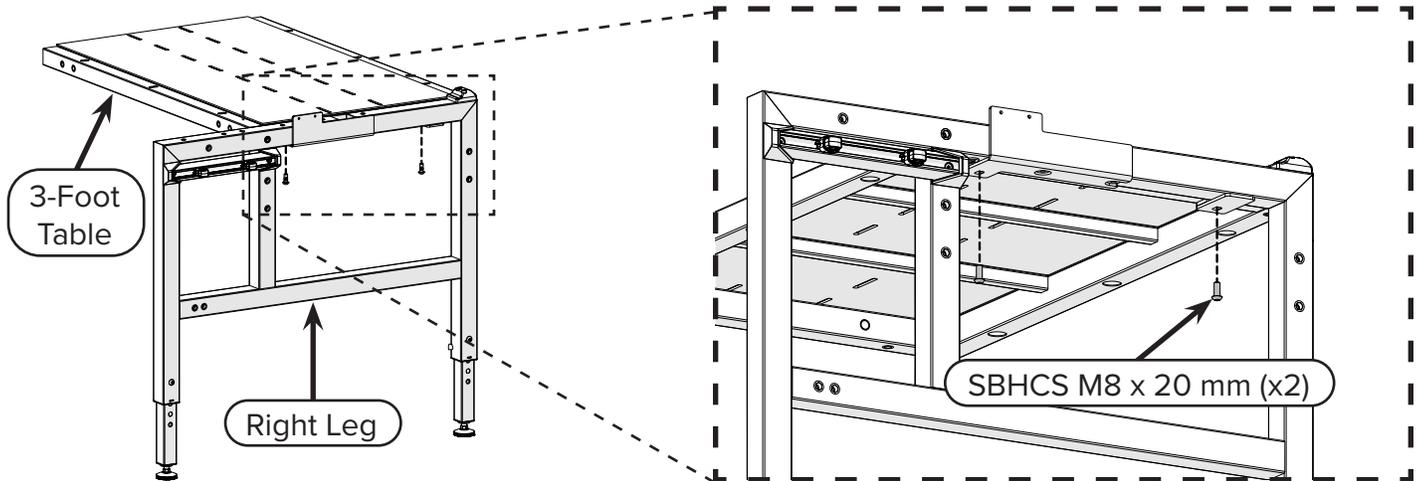
Completing the Hoop Frame to 8-Foot Elite-Frame Upgrade

Task 3 - Installing the Table (continued)

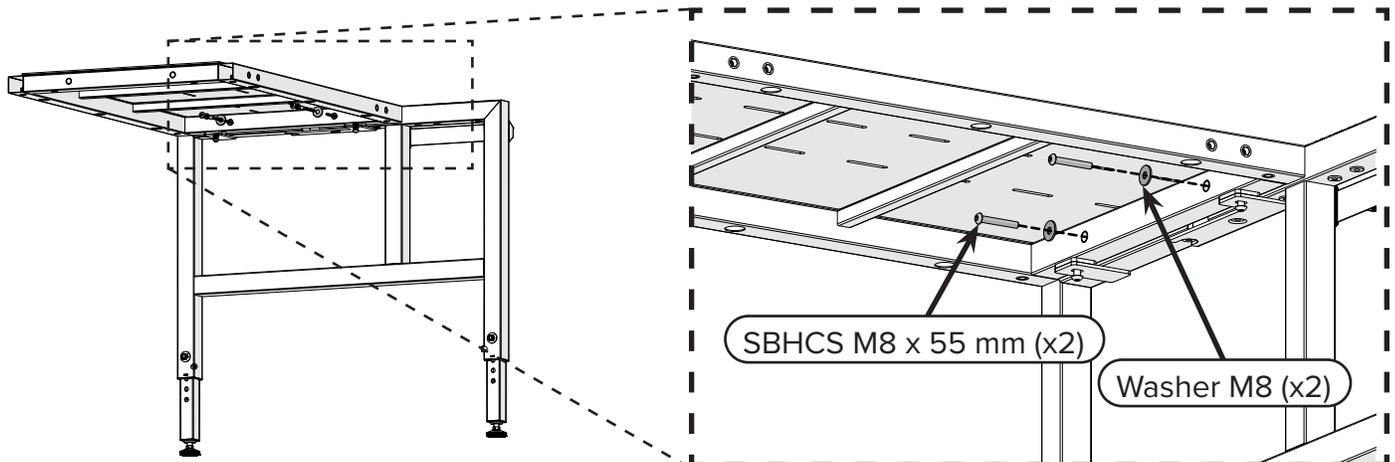
- 1 Loosely attach the **middle leg** to the end of the **5-foot table assembly** with two **M8 x 16 mm SBHCS** and the 5 mm Allen wrench.



- 2 Use the 5 mm Allen wrench and two **M8 x 20 mm SBHCS** to loosely connect the **3-foot table** to the **right leg**.



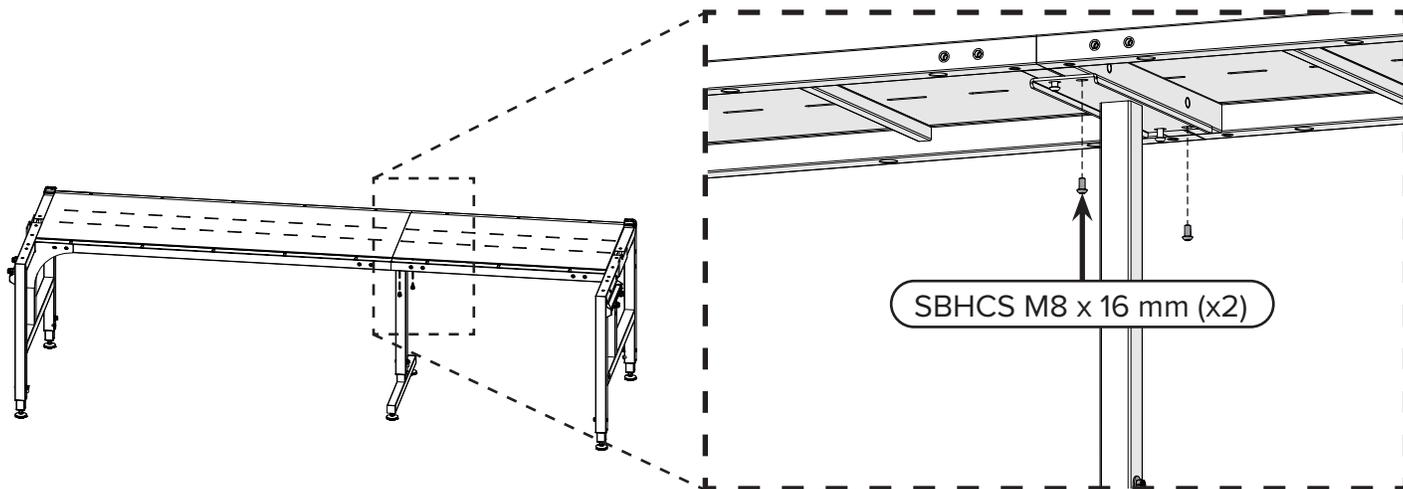
- 3 Loosely install two **M8 x 55 mm SBHCS** and two **M8 washers** to the side of the table and the right leg with the 5 mm Allen wrench.



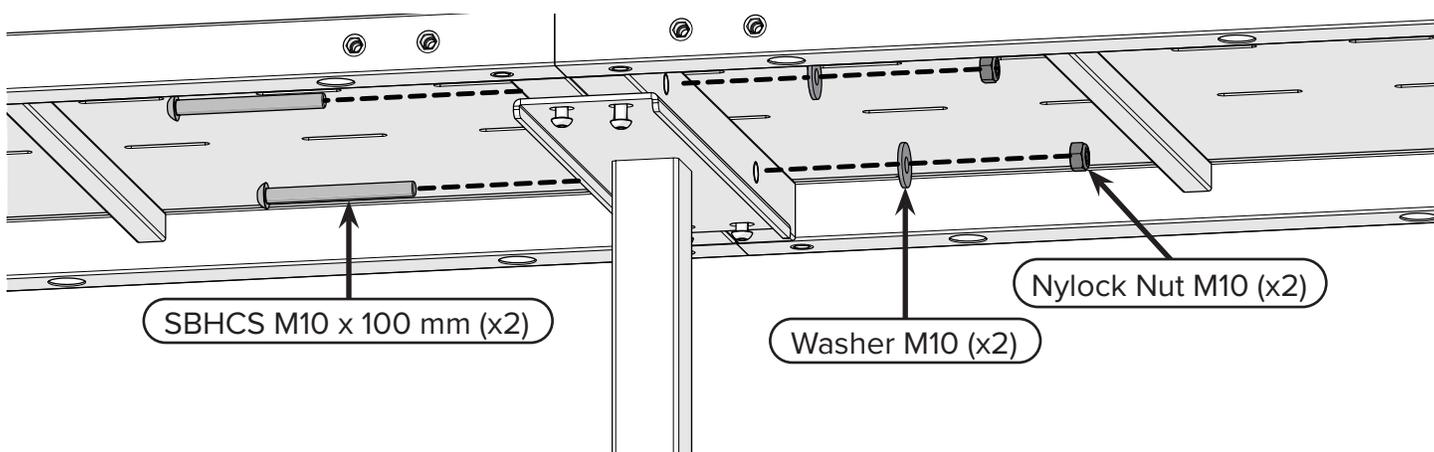
Completing the Hoop Frame to 8-Footer Elite-Frame Upgrade

Task 3 - Installing the Table (continued)

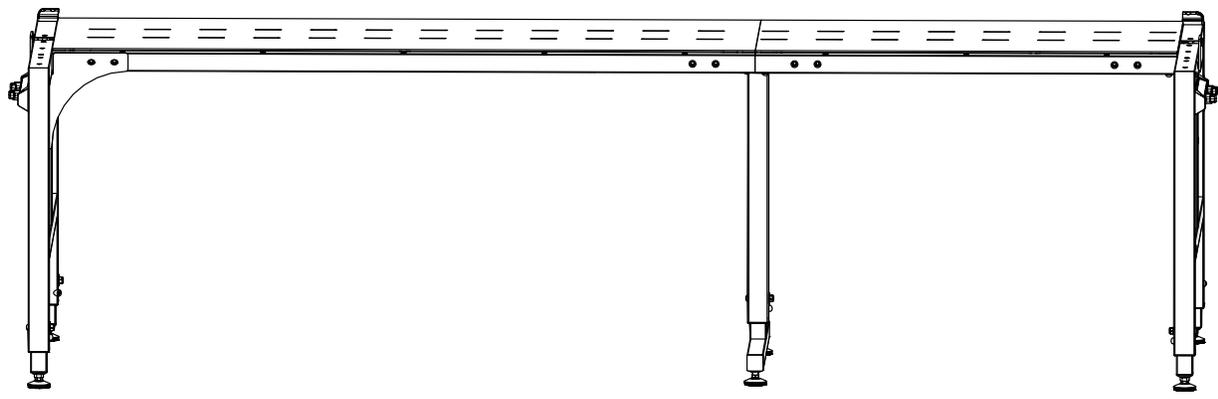
- 4 Loosely attach the other side of the 3-foot table assembly to the middle leg with two **M8 x 16 mm SBHCS** and the Allen wrench.



- 5 Attach the 5-foot and 3-foot table assemblies together with two **M10 x 100 mm SBHCS**, two **M10 washers**, and two **M10 nylock nuts**. Loosely connect these with the 6 mm Allen wrench and the 17 mm open-end wrench.



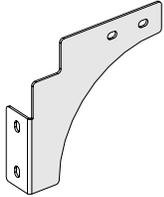
- 6 **Task Result:** The table sections have been *loosely* installed onto the frame legs. All the screws holding the tables on the legs need to be loose, including the ones you loosened when you took apart the hoop frame. You'll tighten all these screws at the end of the next task.



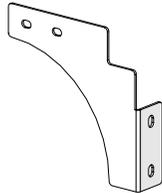
Task 4 - Attaching the Braces

Parts & Tools Needed

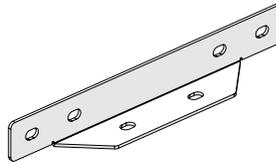
Corner Brace A
(with orig frame)



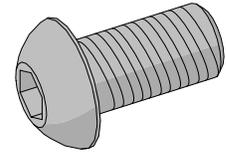
Corner Brace B
(with orig frame)



Middle Table Brace
(x2) (Box 5)



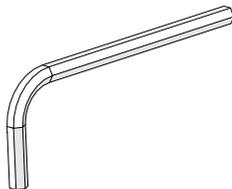
SBHCS M8 x 16 mm
(x20) (Box 5, Hardware
& with orig frame)



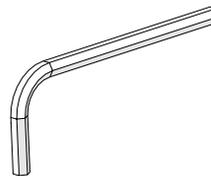
Frame Reference
Card Hook (Box 4,
Hardware)



Allen Wrench 6 mm



Allen Wrench 5 mm



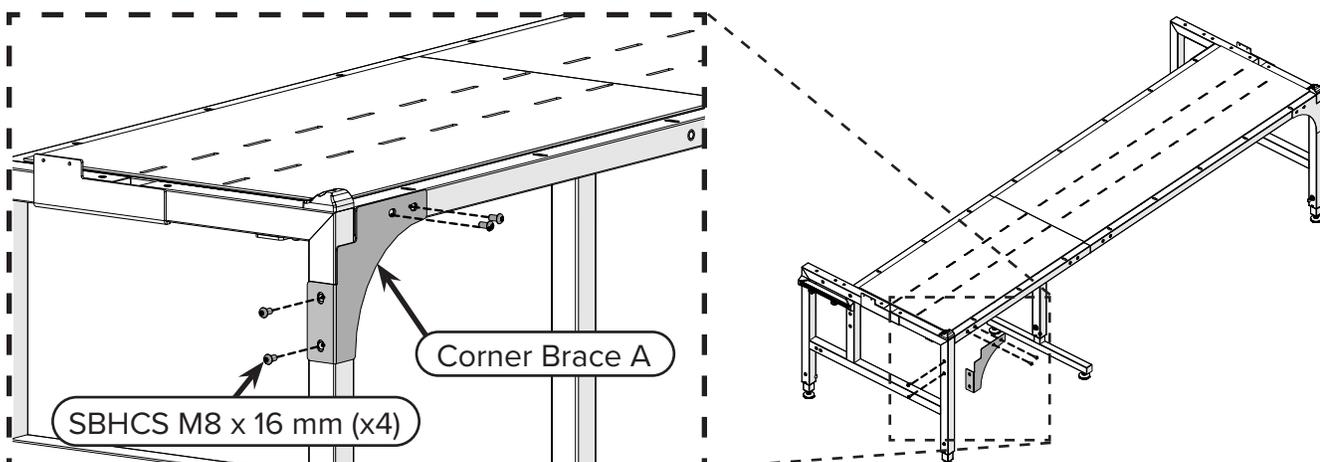
Open-End Wrench
14 mm and 17 mm



Instructions

The braces help support the table and make the frame sturdier. Take the following steps to attach and tighten the braces to the frame:

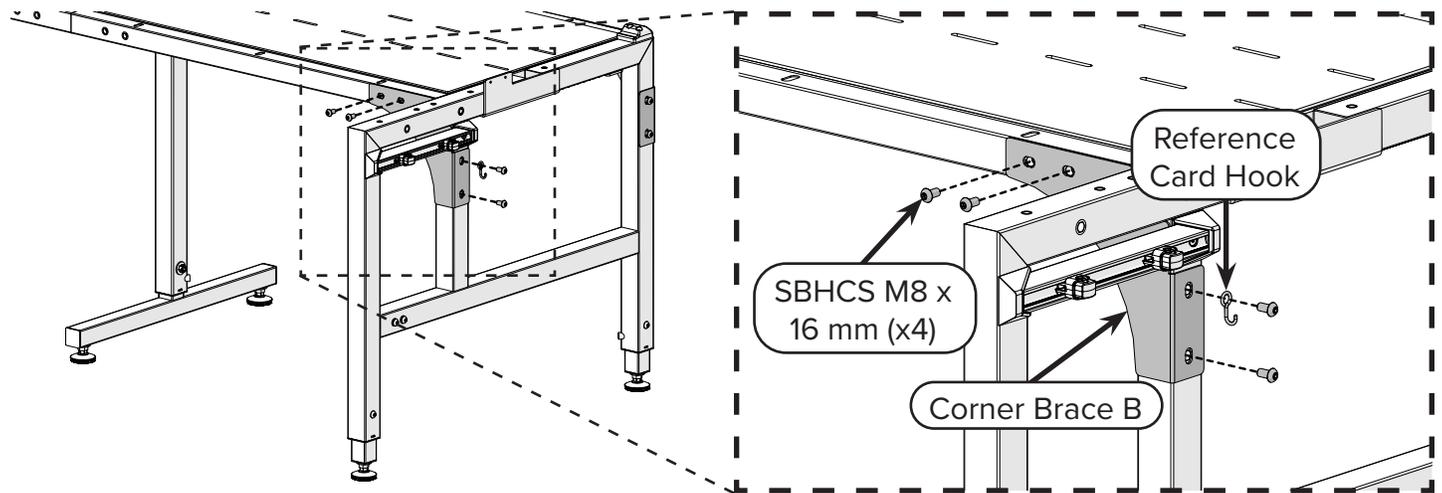
- 1 Loosely attach **corner brace A** to the back-right corner of the frame using four **M8 x 16 mm SBHCS** and the 5 mm Allen wrench. Do not tighten the screws yet.



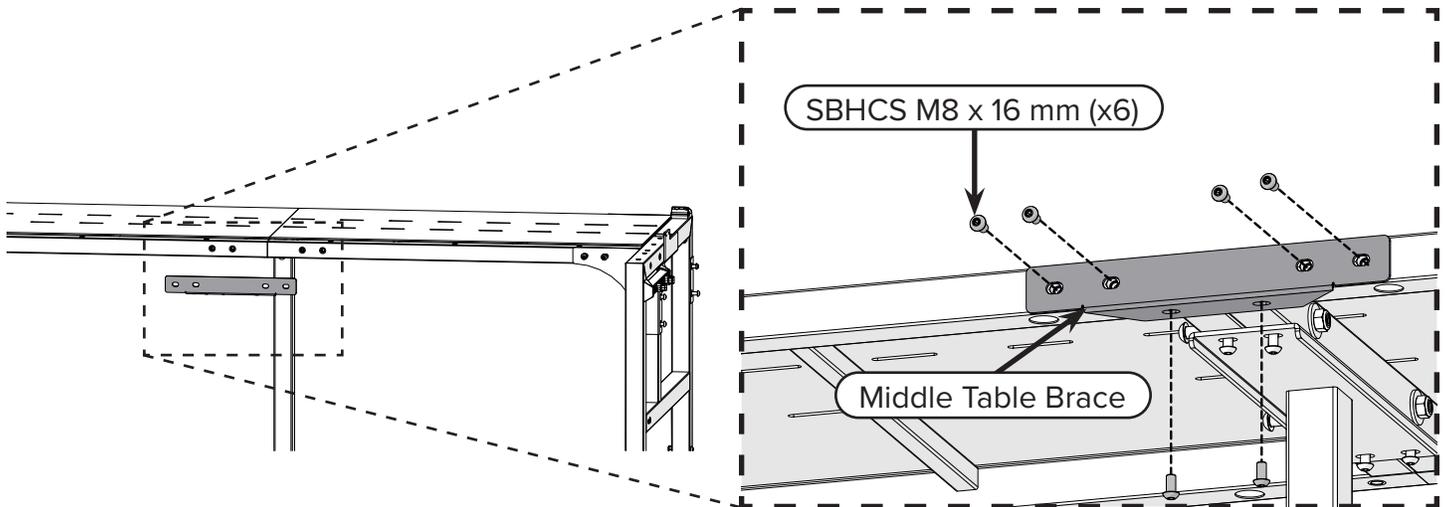
Completing the Hoop Frame to 8-Foot Elite-Frame Upgrade

Task 4 - Attaching the Braces (continued)

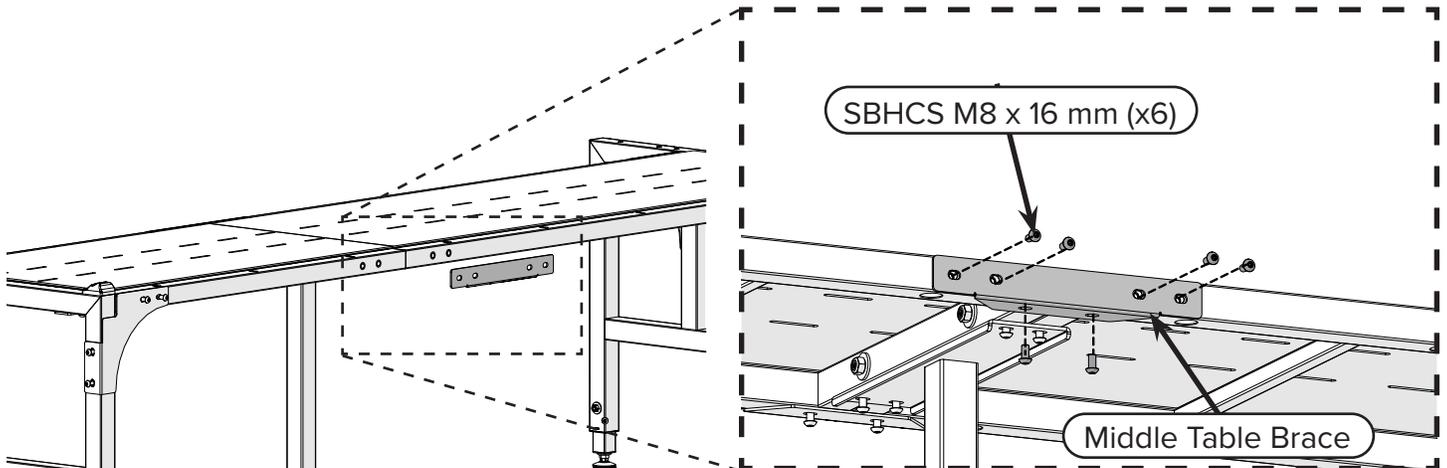
- 2 Loosely attach **corner brace B** and the **reference card hook** to the front-right corner of the frame using four **M8 x 16 mm SBHCS** and the Allen wrench. Do not tighten the screws yet.



- 3 Attach a **middle table brace** loosely to the front of the table, where the 5-foot and 3-foot tables meet. Use six **M8 x 16 mm SBHCS** and the Allen wrench. Do not tighten the screws yet.



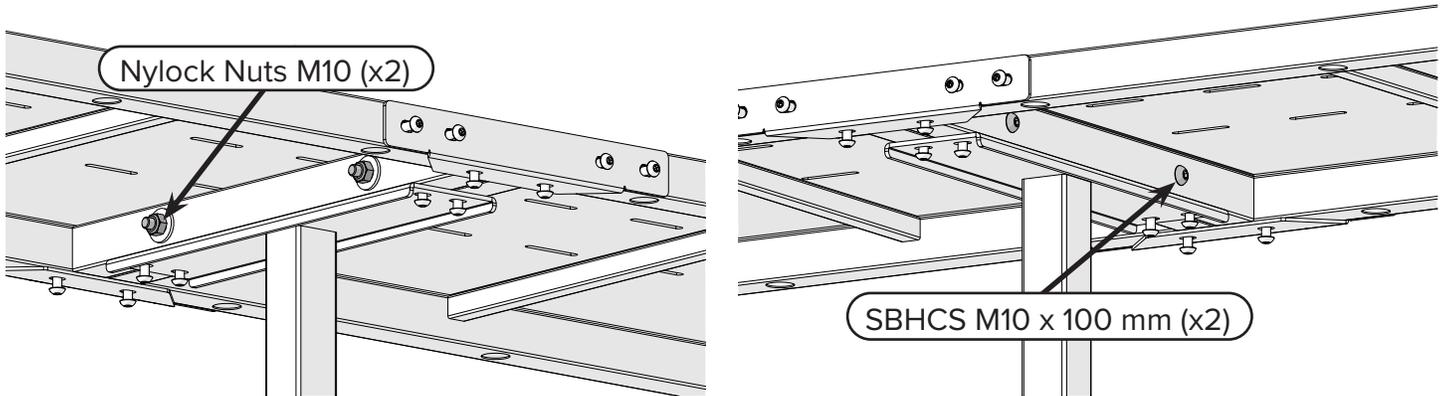
- 4 Attach a **middle table brace** loosely to the back of the frame, where the 5-foot and 3-foot tables meet. Use six **M8 x 16 mm SBHCS** and the Allen wrench. Do not tighten the screws yet.



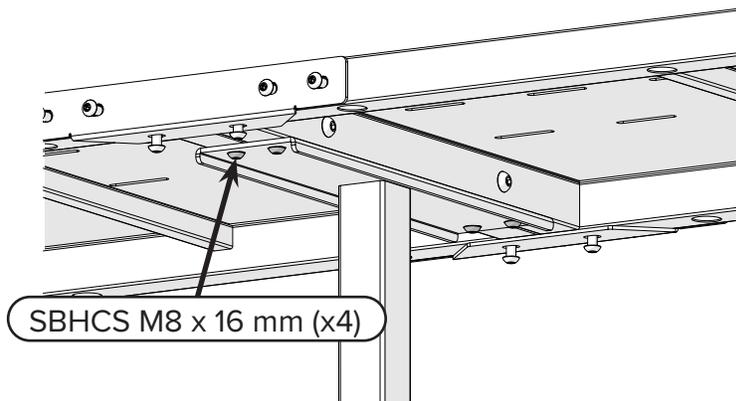
Completing the Hoop Frame to 8-Foot Elite-Frame Upgrade

Task 4 - Attaching the Braces (continued)

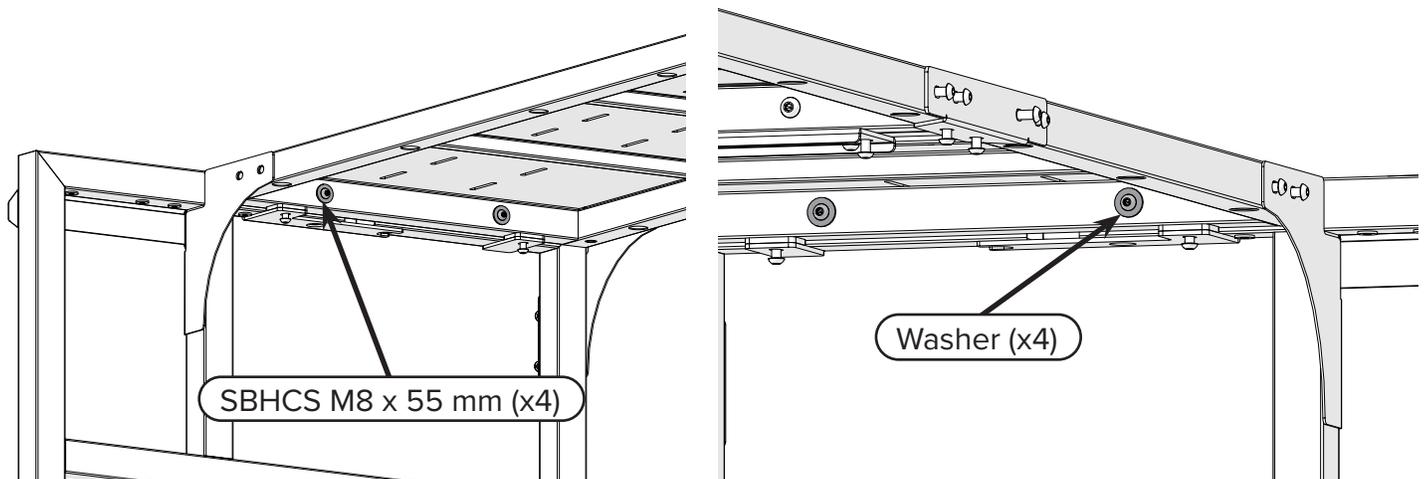
- 5 With the 17 mm open-end wrench and the 6 mm Allen wrench, tighten the two **M10 x 100 mm SBHCS** and two **M10 nylock nuts** that you left loose. These items are located just above the middle leg, where the 3-foot and 5-foot tables meet.



- 6 With the 5 mm Allen wrench, tighten the four **M8 x 16 mm SBHCS** you left loose on the middle leg.



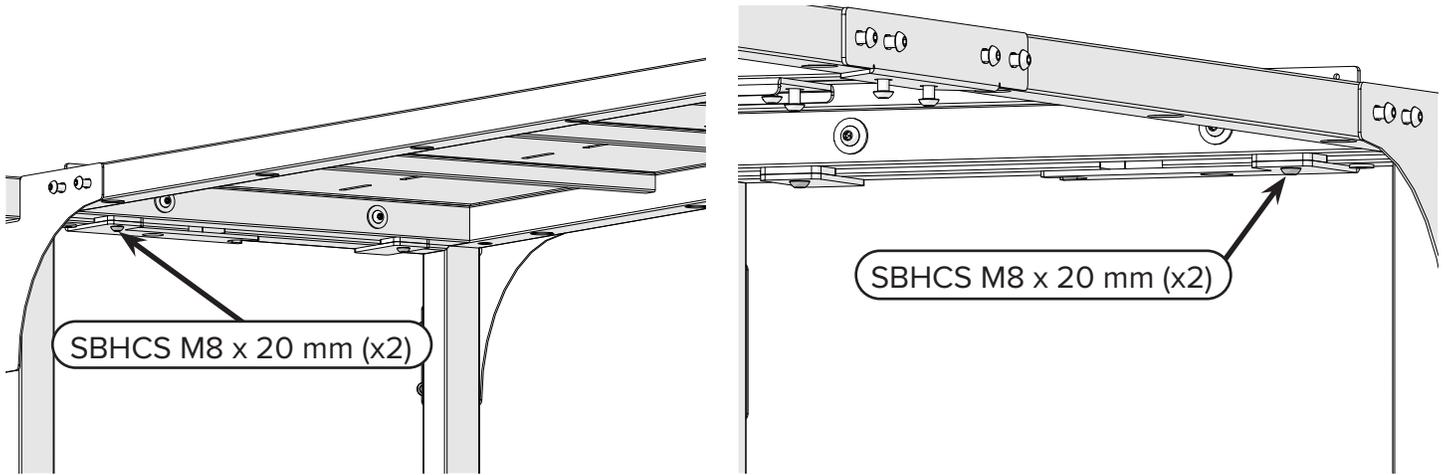
- 7 With the Allen wrench, tighten the two **M8 x 55 mm SBHCS** you left loose on the sides of the tables on each leg (they have **washers** with them).



Completing the Hoop Frame to 8-Foot Elite-Frame Upgrade

Task 4 - Attaching the Braces (continued)

8 With the Allen wrench, tighten the two **M8 x 20 mm SBHCS** you left loose under each table assembly on the underside near the legs.

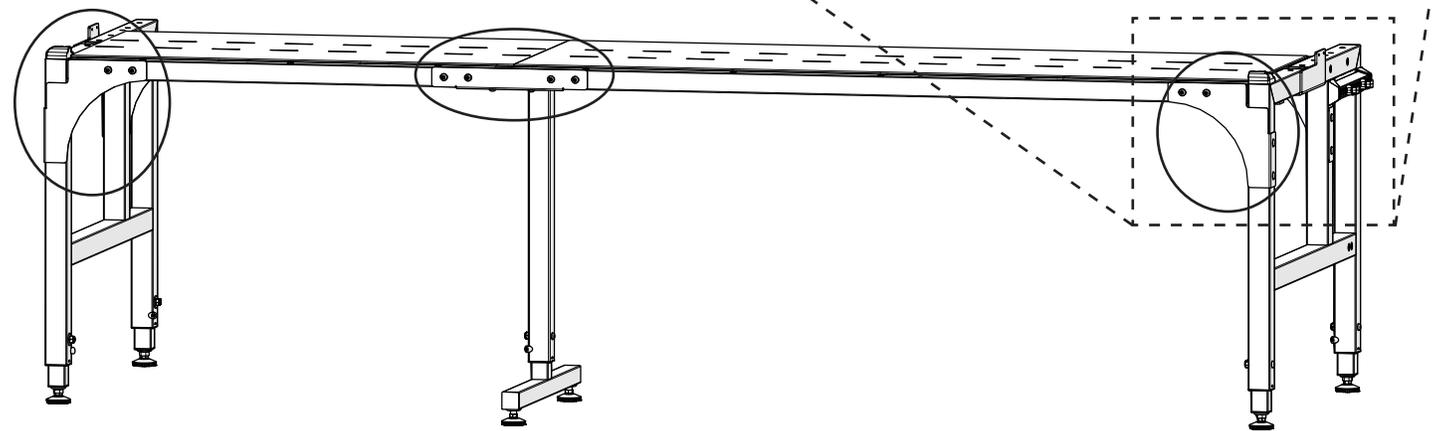
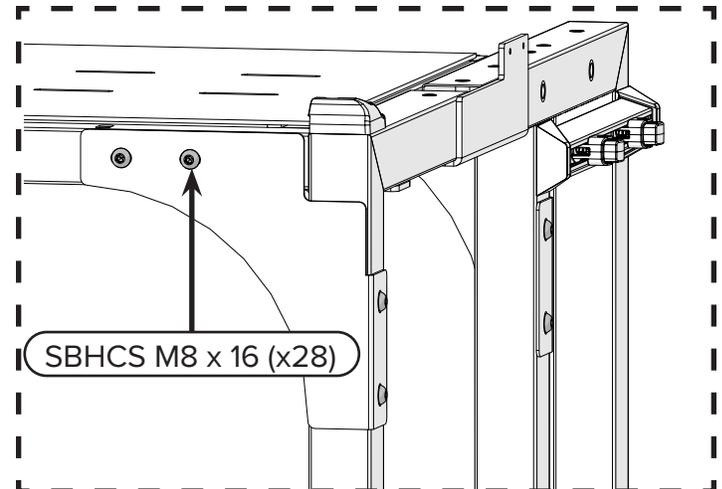


9 Use the Allen wrench to tighten all twenty-eight **M8 x 16 mm SBHCS** used to attach the braces on the four corners of the frame and in the middle where the tables meet.

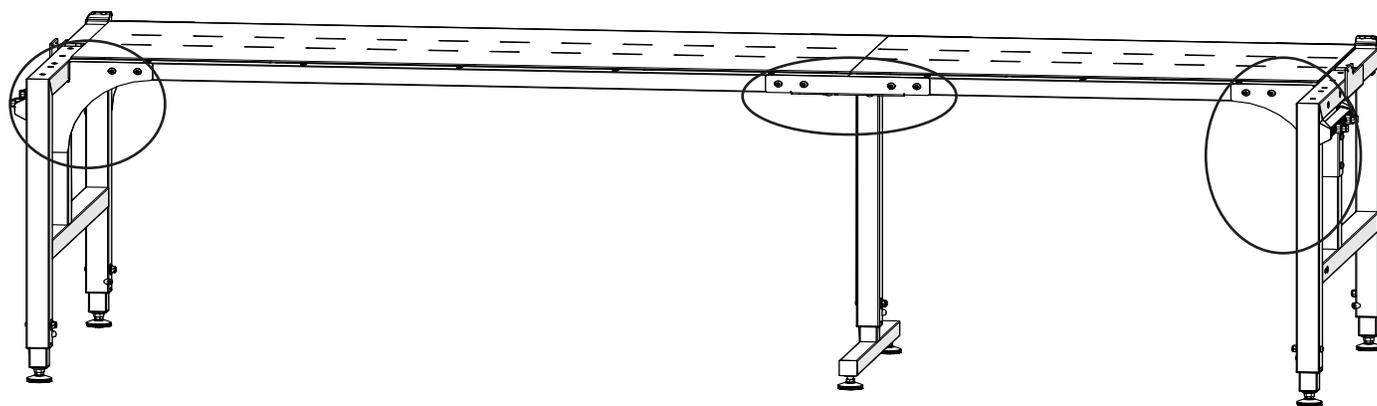
Note: There are six braces to tighten:

- Back-right corner (4 screws)
- Back-middle (6 screws)
- Back-left corner (4 screws)
- Front-right corner (4 screws)
- Front-middle (6 screws)
- Front-left corner (4 screws)

Total = 28 screws. These locations are circled in the two images below.

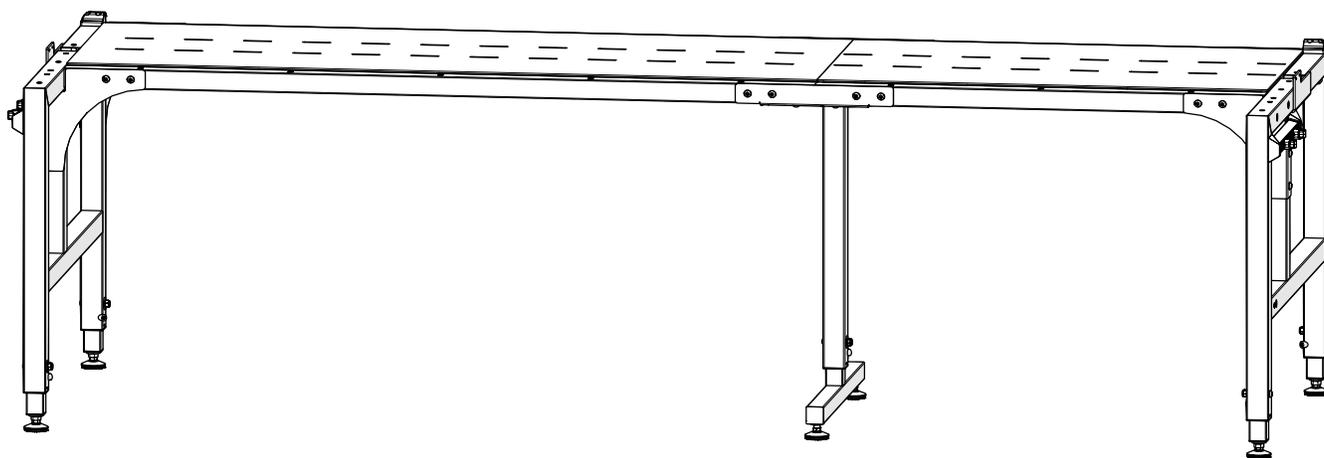


Back of Frame



Front of Frame

10 **Task Result:** The braces are all attached and the frame is sturdy.



Completing the Hoop Frame to 8-Foot Elite-Frame Upgrade

Congratulations! You have upgraded to the 8-foot Evolution Elite-Frame.

Now, use the instructions in the Evolution Elite-Frame manual that came with your upgrade kit (in box 5) to fully assemble your upgraded frame. Start with Part One, Task 5, where you'll be installing the take-up rail towers.

From this point on, the assembly process is the same as if you'd purchased the 8-Foot Elite-Frame from the start. However, pay attention to these small changes:

- Sometimes the instructions in the Evolution Elite-Frame manual will indicate that the parts or tools to use are in boxes 1 or 2. For you, replace that with (*with orig frame*) as you will be using the pieces that came with your hoop frame instead. If the Elite-Frame instructions direct you to use items from boxes 4 or 5, do so, as those are the upgraded versions.
- When you are installing the tracks (task 7), pay attention to the following:
 - Skip the step to shift the end cap to the right, as you have already done so.
 - Make sure your channel lock is up and out of the way so that your bottom carriage can move freely across the frame while you align the tracks. In the Evolution Elite-Frame instructions, it is assumed that you haven't installed the channel lock yet, but since you are upgrading, your channel lock is already installed.
- Skip installing the channel locks, as you have already done so.
- Make sure you put your machine back on your frame before you install the rails. The Elite-Frame instructions tell you to do that during channel lock installation, which you skipped.
- When you are instructed to assemble your hand wheel (task 12), you can skip that specific step, as your hand wheel is already put together. Make sure you still follow the step to attach the hand wheel to the end of the take-up rail.

Make sure you keep following the instructions in the Evolution Elite-Frame manual for positioning the rails correctly and leveling the frame.

Use Part Four of the Evolution Elite-Frame instruction manual to learn about your new frame, including putting your quilt on the frame.

Best of luck on your quilting journey!

Note: If your original frame is the 8-Foot or 10-Foot Evolution Elite-Frame, then these instructions don't apply to you. Go to "Preparing to Upgrade An Elite-Frame" on page 82 for the first set of instructions you need.

Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade

Progress Checkpoint

Before you begin assembling your frame, make sure:

- You purchased the 5-Foot Extension kit. You must have only boxes 4 and 6. If you have other boxes in your upgrade kit, then you purchased a different size of frame. If you have boxes 4 and 5, go to "Completing the Hoop Frame to 8-Foot Elite-Frame Upgrade" on page 23. If you have boxes 4, 6, and 7, then go to "Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade" on page 61.
- You have taken apart the Evolution Hoop-Frame, as instructed in "Taking Apart the Hoop Frame" on page 1.

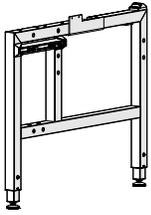
Task 1 - Setting the Height of the Middle Leg.....	42
Task 2 - Assembling the Tracks	45
Task 3 - Installing the Table.....	52
Task 4 - Attaching the Braces	55

Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade

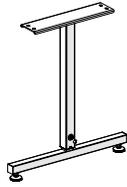
Task 1 - Setting the Height of the Middle Leg

Parts & Tools Needed

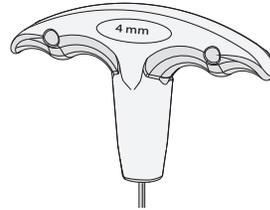
Right Leg
(with orig frame)



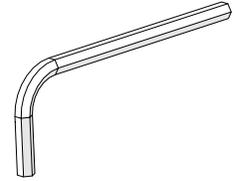
Middle Leg
(Box 6)



T-handle Allen Wrench
4 mm



Allen Wrench 5 mm



Open-End Wrench
10 mm and 13 mm
(with orig frame)

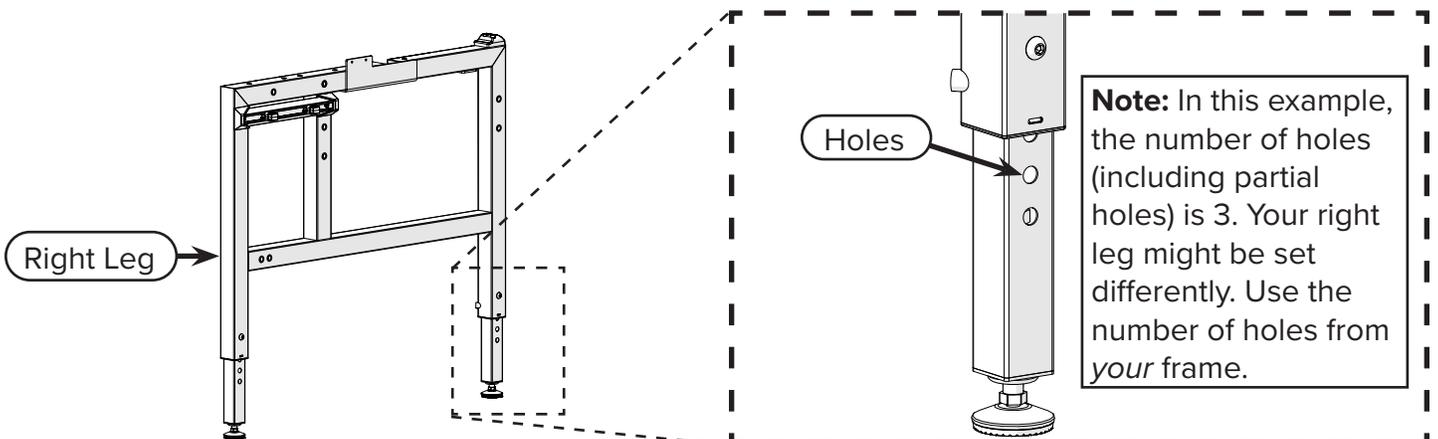


Instructions

Just as you needed to set the height of the legs when you assembled the original frame (so that the height would be comfortable during prolonged use), you must set the height of the middle leg before you put the frame together.

Do the following to set the height of the middle leg:

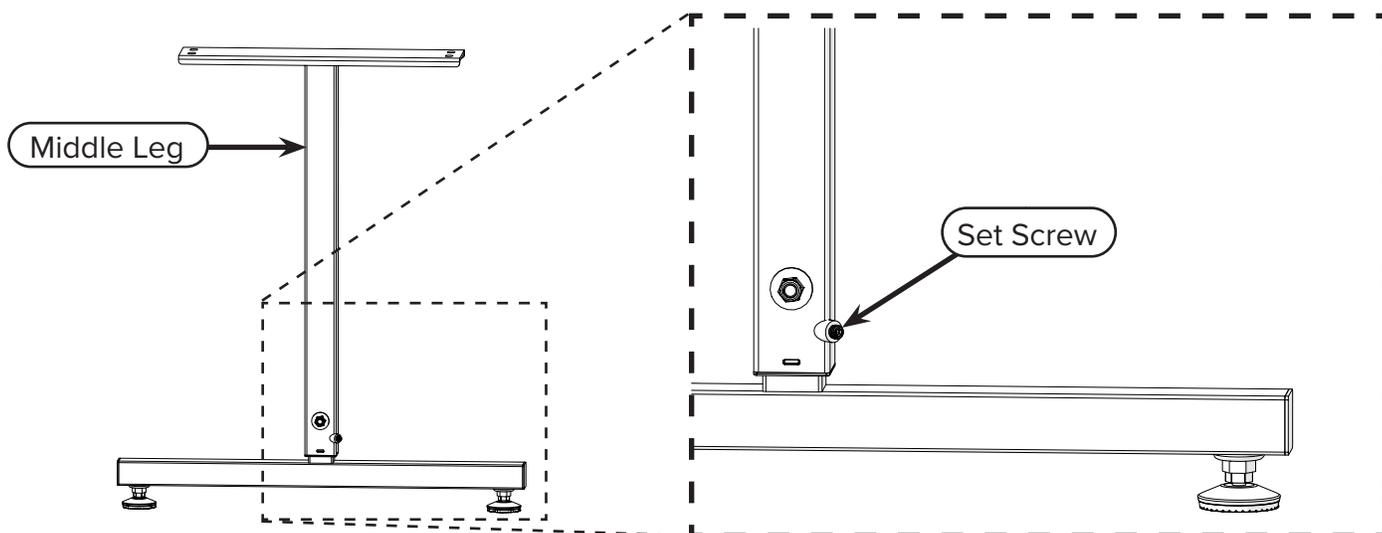
- 1 Locate the **right leg** of the frame (it's the one you just took completely off the frame) and examine it, noting how many **holes** you can see on each leg, including partial holes. Remember or write down the number.



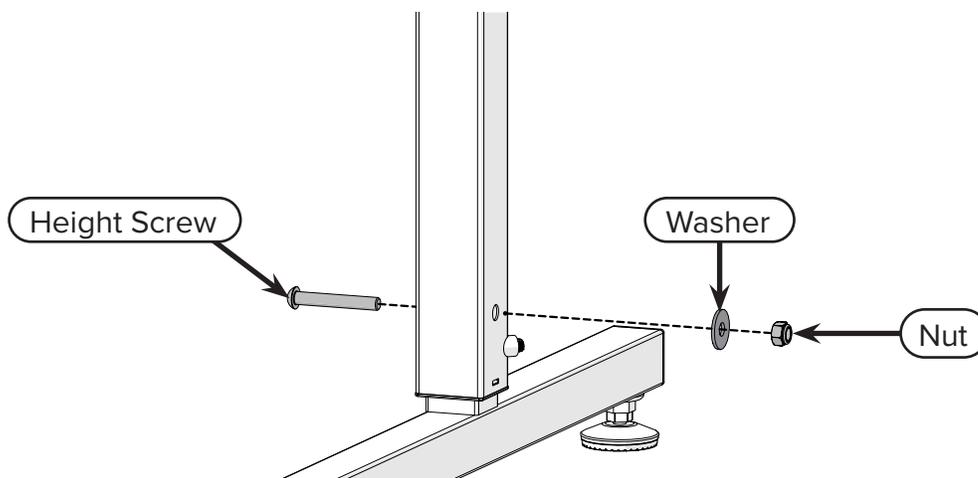
Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade

Task 1 - Setting the Height of the Middle Leg (continued)

- 2 Loosen the **set screw** on the **middle leg** with the 4 mm Allen wrench.

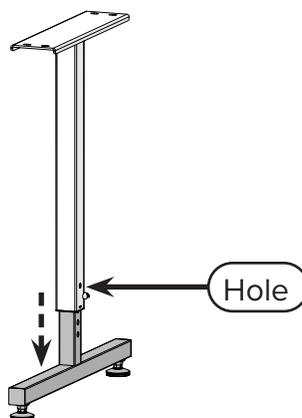


- 3 Remove the **height screw, washer, and nut** from the middle leg with the 5 mm Allen wrench and the 13 mm open-end wrench.



- 4 Pull out the bottom part of the middle leg until you can see the same number of **holes** as the other two legs, using the number of holes you noted on the right leg.

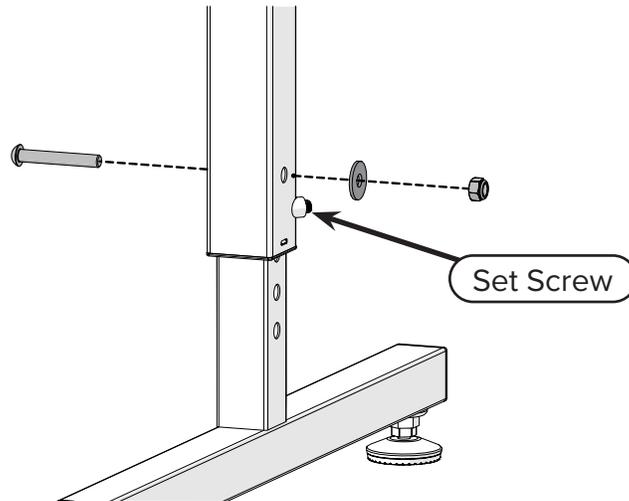
Note: In this example, the height has been set so that 3 holes are visible under the leg. Your frame height might be different. Use the height of *your* frame.



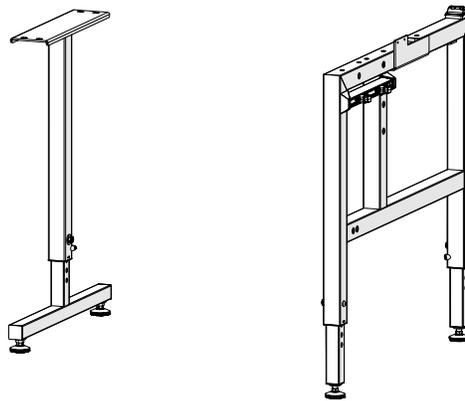
Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade

Task 1 - Setting the Height of the Middle Leg (continued)

- 5 Reinstall the height screw, washer, and nut, and tighten the **set screw**.



- 6 **Task Result:** The middle leg is the same height as the other legs.



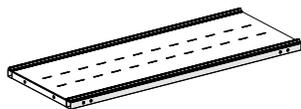
Task 2 - Assembling the Tracks

Parts & Tools Needed

5-ft Tracks (x2)
(with orig frame,
removed earlier)



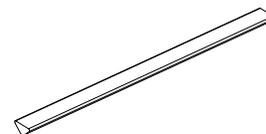
5-ft Table Assembly -
5-ft Extension (Box 6)



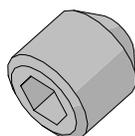
10-ft Plastic Track
(Box 6)



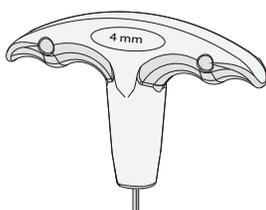
Track Support
Connector (x4)
(Box 6, Hardware Box)



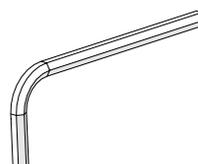
Socket CSS
M6 x 6 mm (x16)
(Box 6, Hardware Box)



T-handle Allen
Wrench 4 mm



Allen Wrench 3 mm

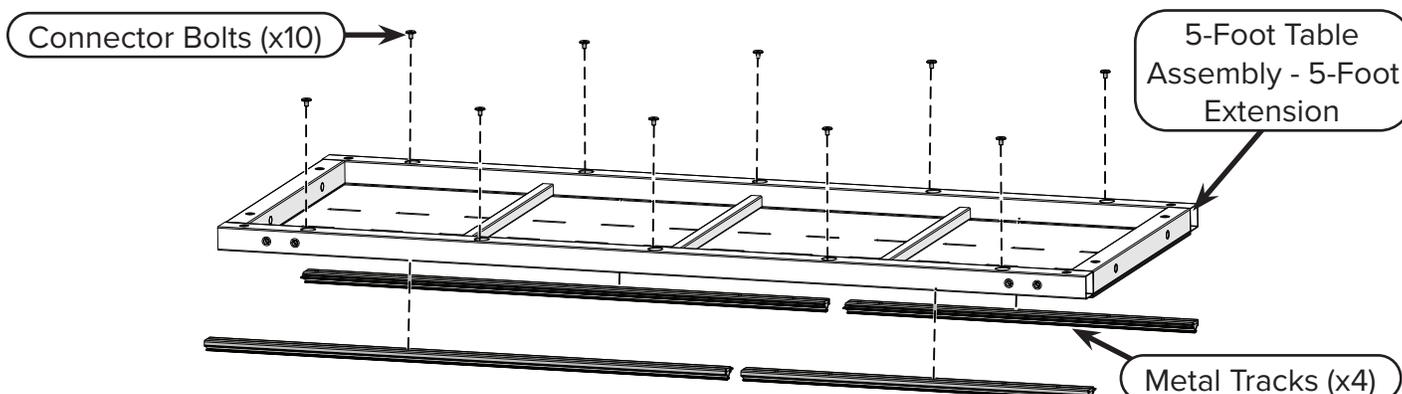


Instructions

To make the frame longer, you need to add more tracks to the ones you removed from the 5-foot frame. To protect the tracks during shipping, they are sent to you installed on the table assembly. However, for the optimal performance of your frame, you must partially take them apart and then reassemble the tracks.

Take the following steps to assemble the tracks:

- 1 Remove the ten **connector bolts** installed on the underside of the **5-foot table assembly - 5-foot extension** with the 4 mm Allen wrench. Two 3-foot and two 2-foot **metal tracks** are now separated from the table. Set aside the connector bolts. You'll use them later.



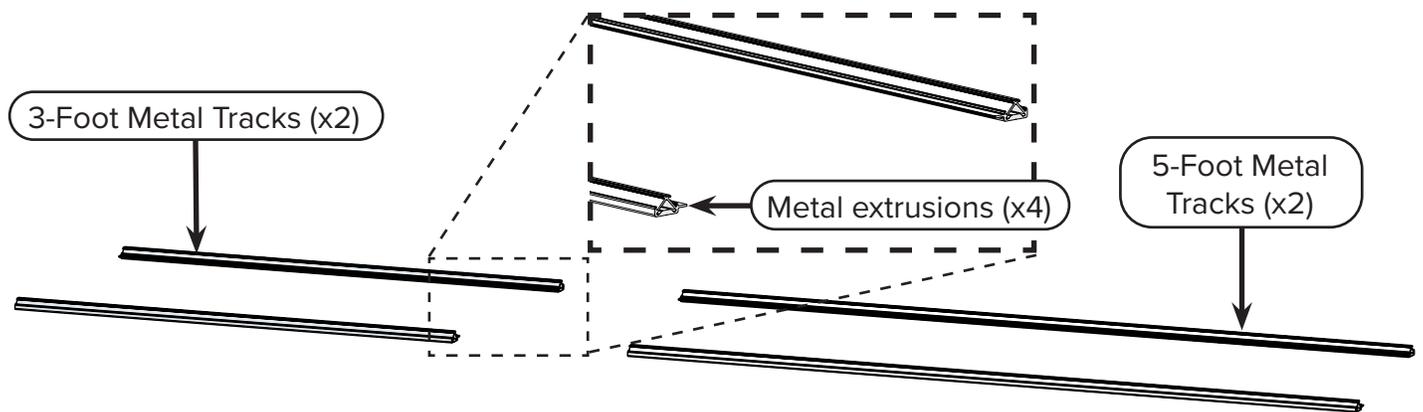
Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

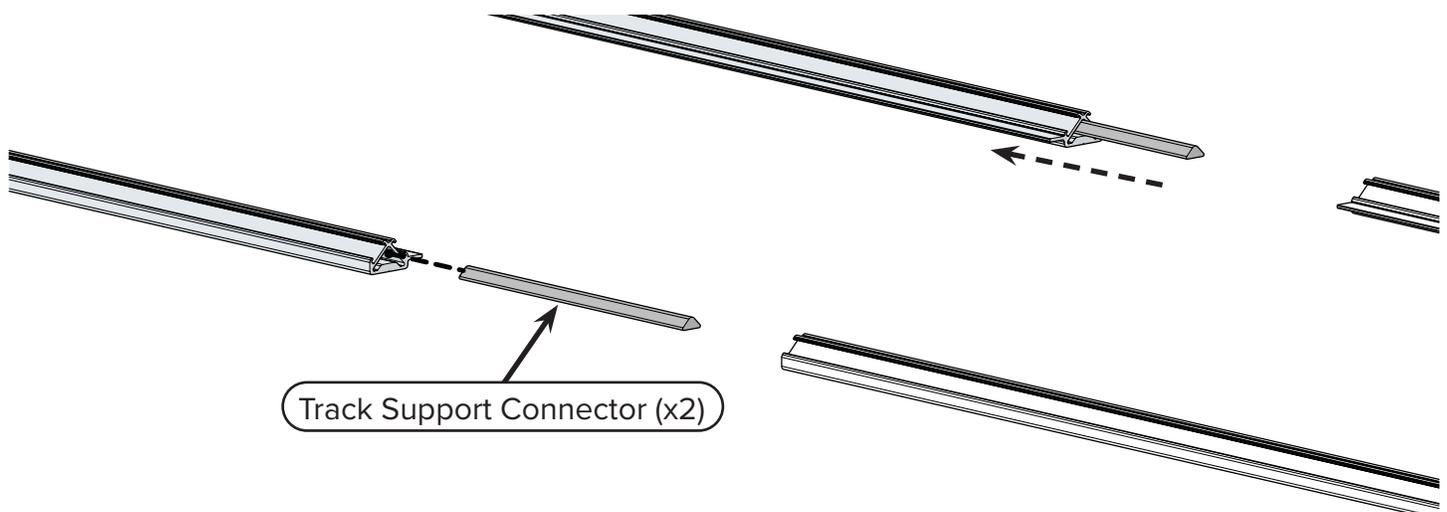
- 2 Locate the 5-foot metal tracks you removed earlier. Each of them has two **plastic tracks** installed in them. They were used for the hoop frame. Slide all four plastic tracks out of the metal tracks. You can discard the plastic tracks, as they aren't needed again.



- 3 Line up the **3-foot metal tracks** to the left of the **5-foot metal tracks**. Note the orientation of the **metal extrusions**, and make sure the extrusions face the inside of all the tracks.



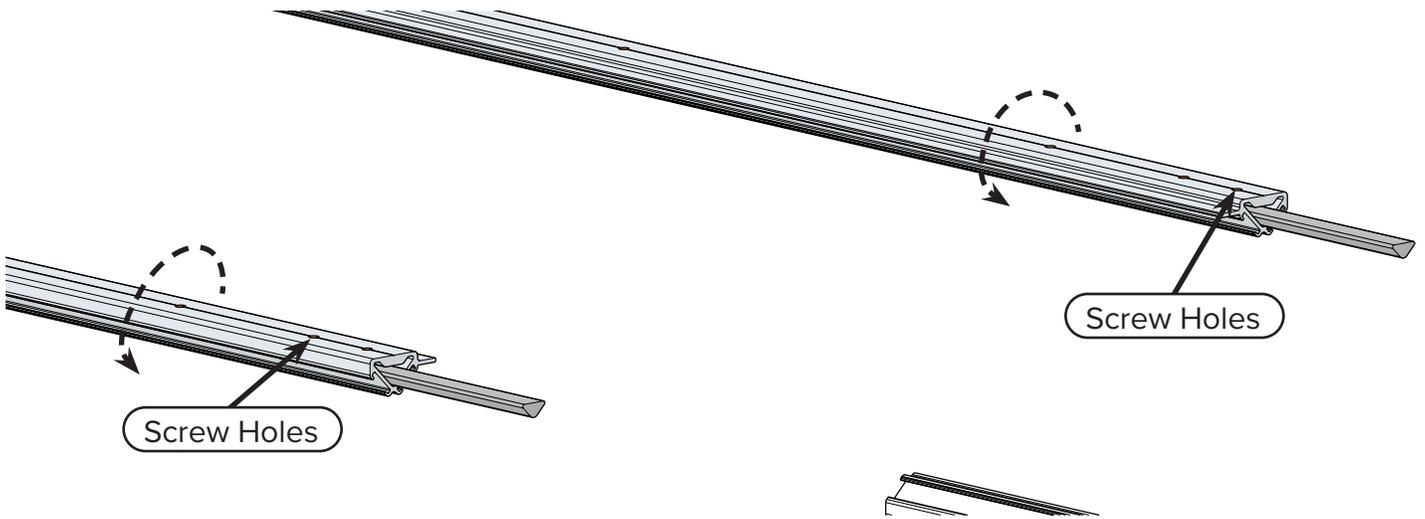
- 4 Place a **track support connector** halfway into each of the 3-foot metal tracks.



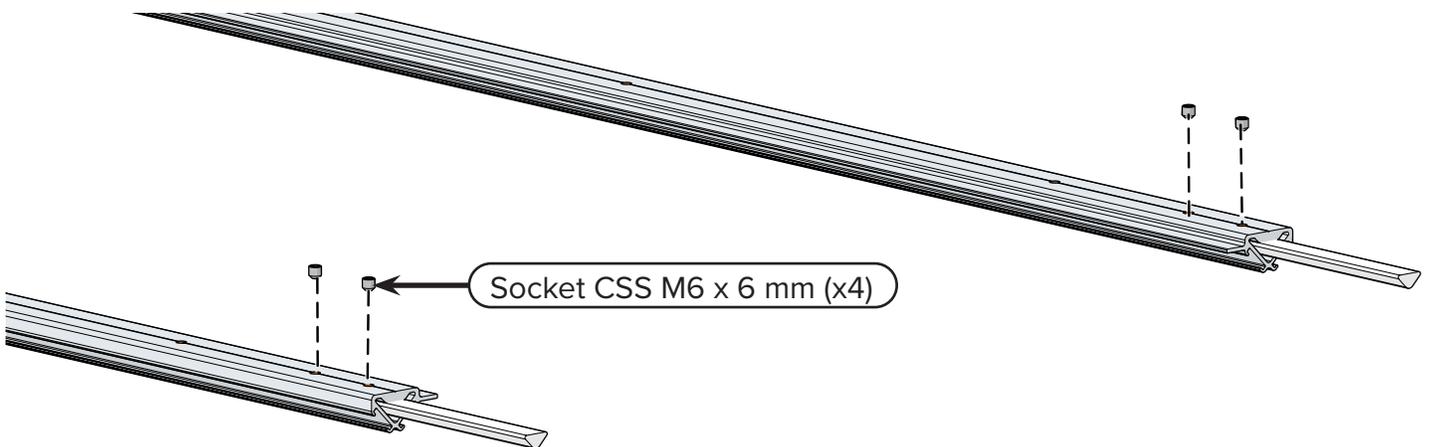
Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

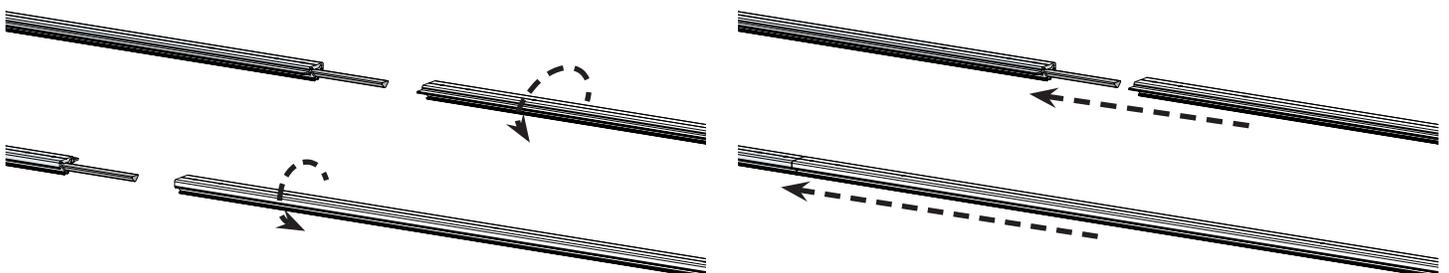
- 5 Carefully flip the 3-foot metal tracks to expose the **screw holes** at the bottom.



- 6 Use the 3 mm Allen wrench to install two **M6 x 6 mm Socket CSS** into each of the 3-foot metal tracks.



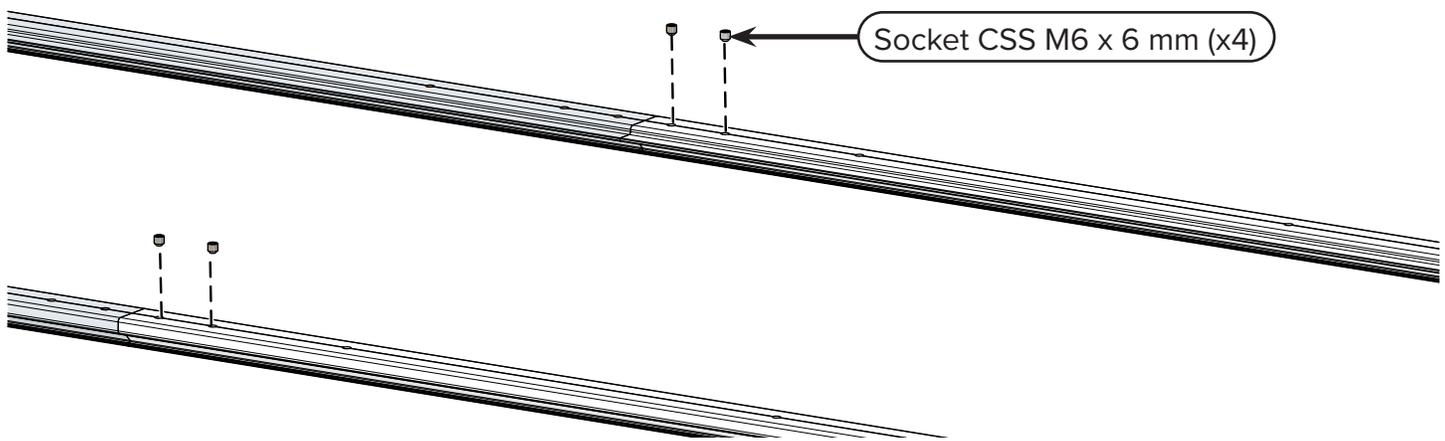
- 7 Flip the 5-foot metal tracks over, and then slide them onto the track support connectors.



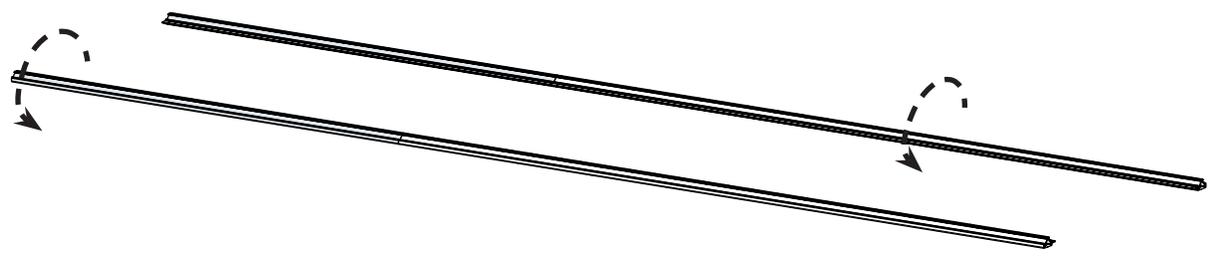
Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

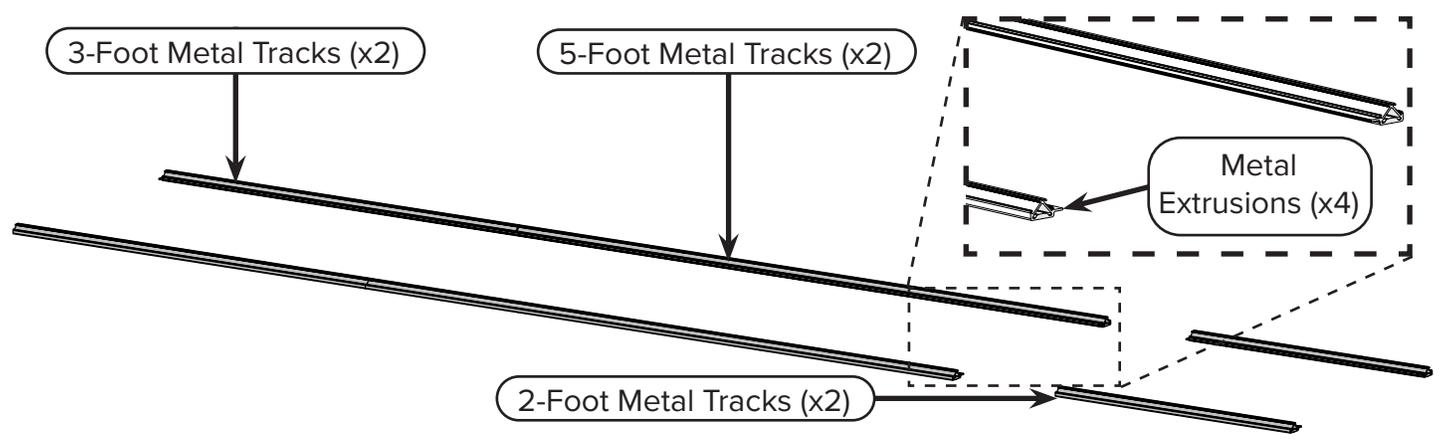
- 8 Use the 3 mm Allen wrench to install two **M6 x 6 mm Socket CSS** into each of the 5-foot metal tracks to secure them to the connectors.



- 9 Flip the tracks over again.



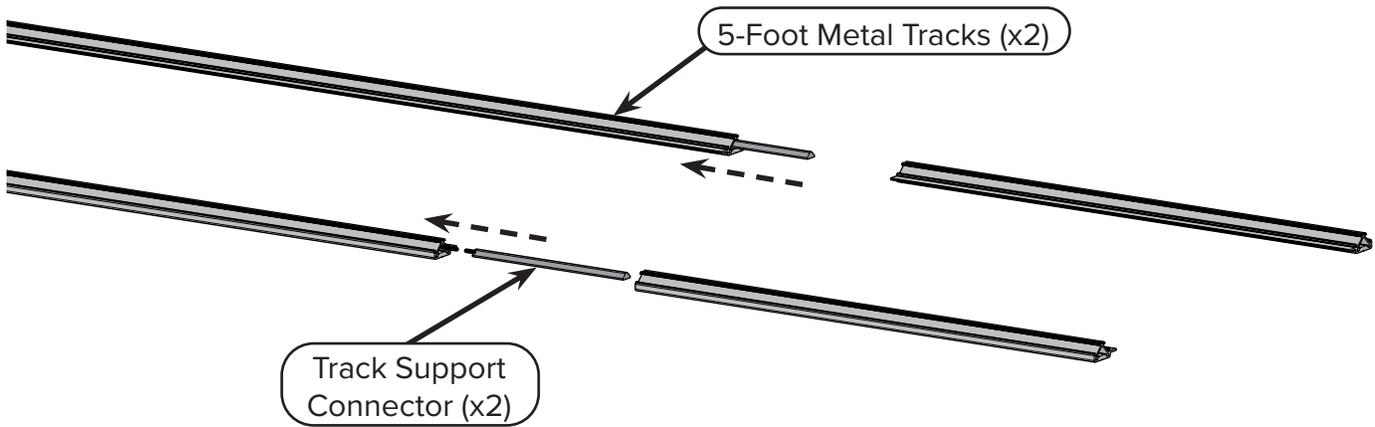
- 10 Align the **2-foot metal tracks** to the right of the **long metal tracks**. Note the orientation of the **metal extrusions**, and make sure the extrusions face the inside of all the tracks.



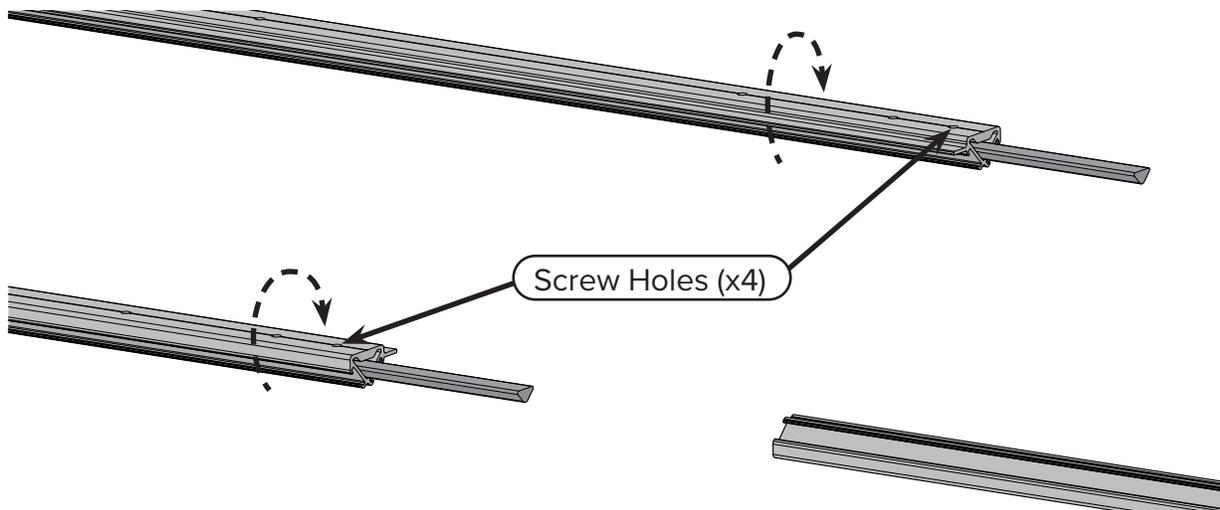
Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

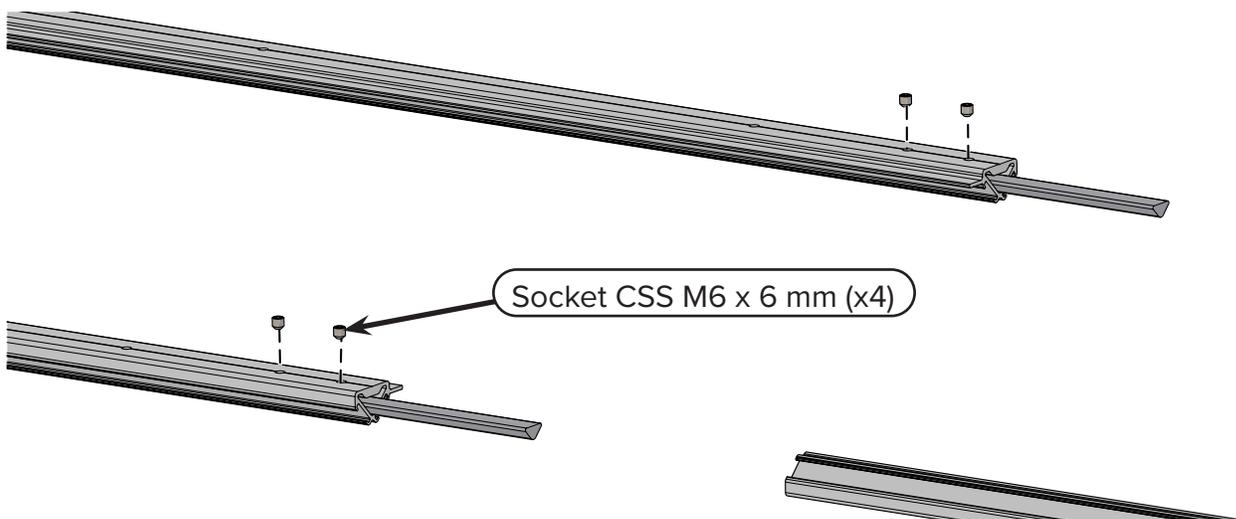
- 11 Place a **track support connector** halfway into the ends of the **5-foot metal tracks**.



- 12 Carefully flip the long metal tracks to expose the **screw holes** at the bottom.



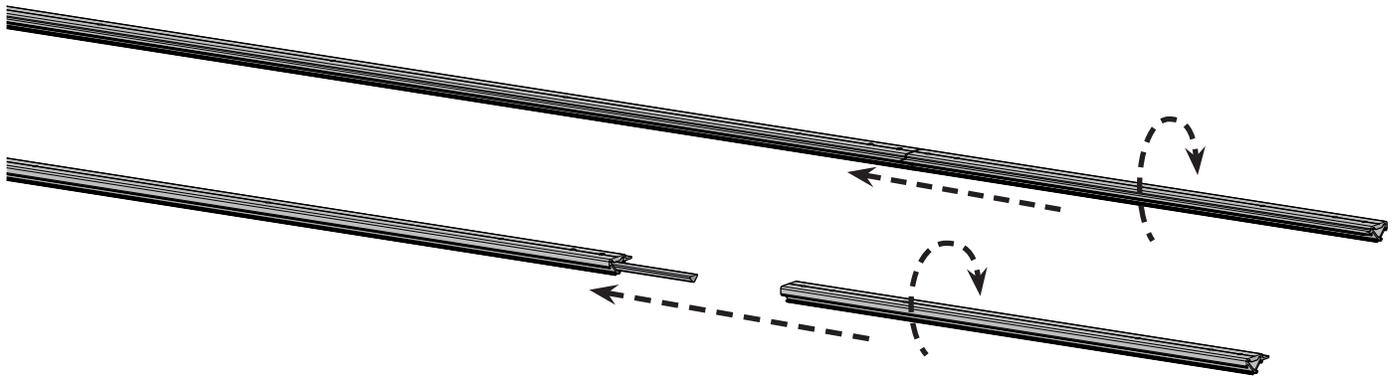
- 13 Use the Allen wrench to install two **M6 x 6 mm Socket CSS** into each of the 5-foot metal tracks.



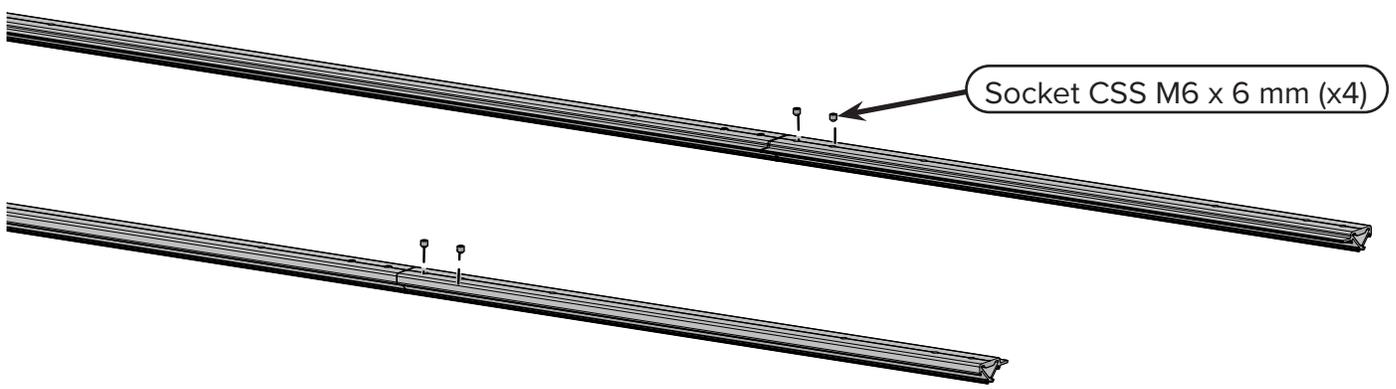
Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

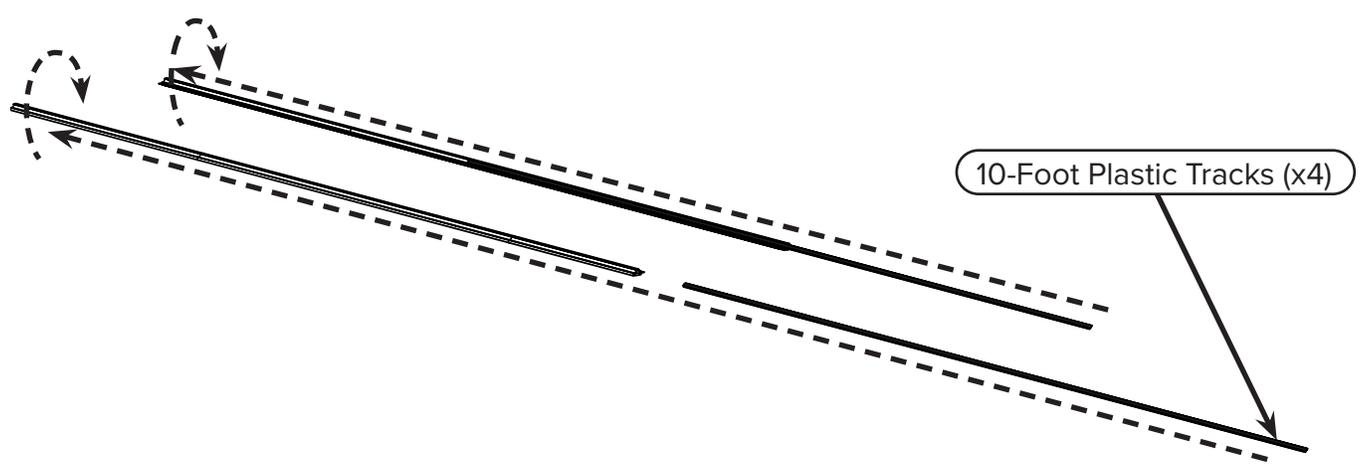
- 14 Flip the **2-foot metal tracks** over and then slide them onto the track support connectors.



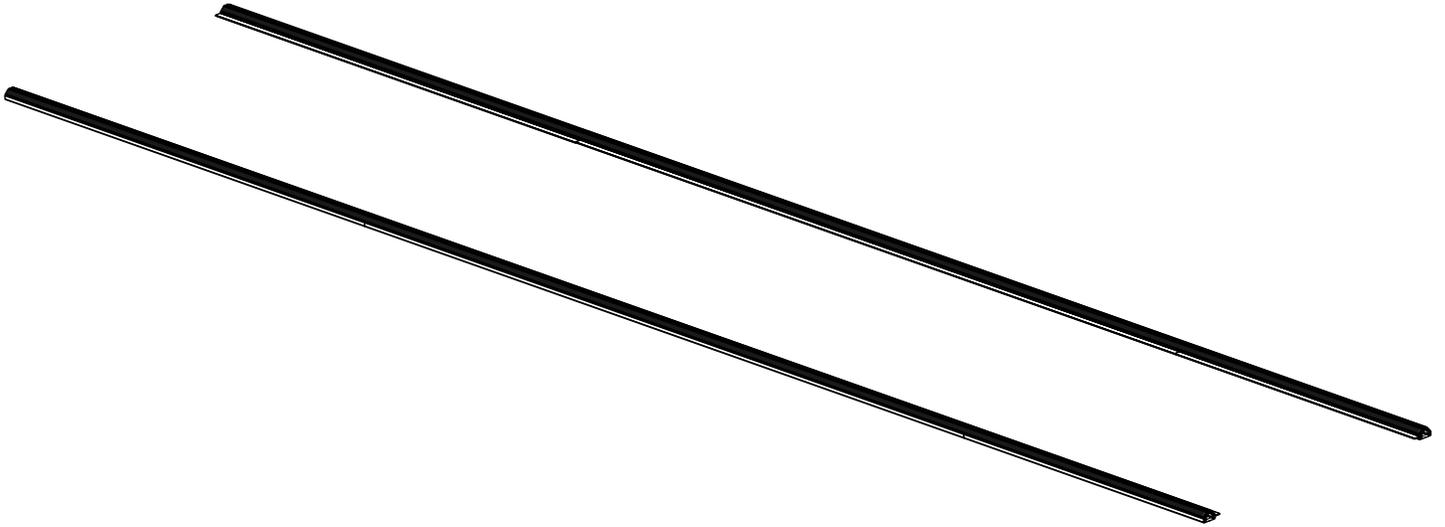
- 15 Use the Allen wrench to install two **M6 x 6 mm Socket CSS** into each of the 2-foot metal tracks.



- 16 Flip the tracks over again. Then slide two **10-foot plastic tracks** into each metal track assembly.



17 **Task Result:** The 10-foot tracks are fully assembled. You'll put them on the frame later.

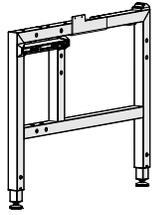


Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade

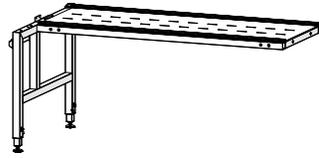
Task 3 - Installing the Table

Parts & Tools Needed

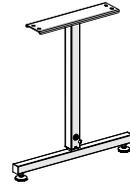
Right Leg



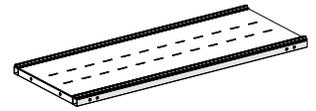
Left Leg with 5-ft Table



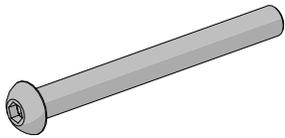
Middle Leg



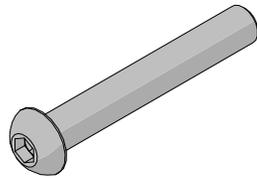
5-ft Table Assembly



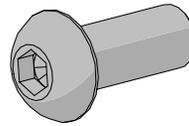
SBHCS M10 x 100 mm
(x2) (Box 6, Hardware)



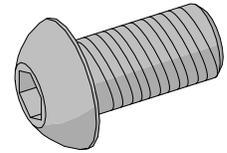
SBHCS M8 x 55 mm
(x2) (with orig frame)



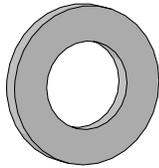
SBHCS M8 x 20 mm
(x2) (with orig frame)



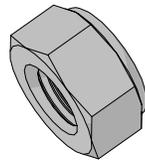
SBHCS M8 x 16 mm
(x4) (Box 6, Hardware)



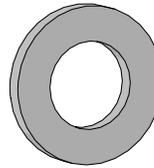
Washer M8 (x2)
(with orig frame)



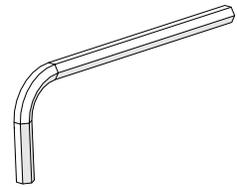
Nylock Nut M10 (x2)
(Box 6, Hardware)



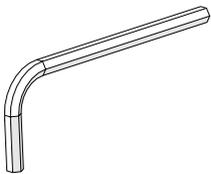
Washer M10 (x2)
(Box 6, Hardware)



Allen Wrench 6 mm



Allen Wrench 5 mm



Open-End Wrench
14 mm and 17 mm
(with orig frame)



Instructions

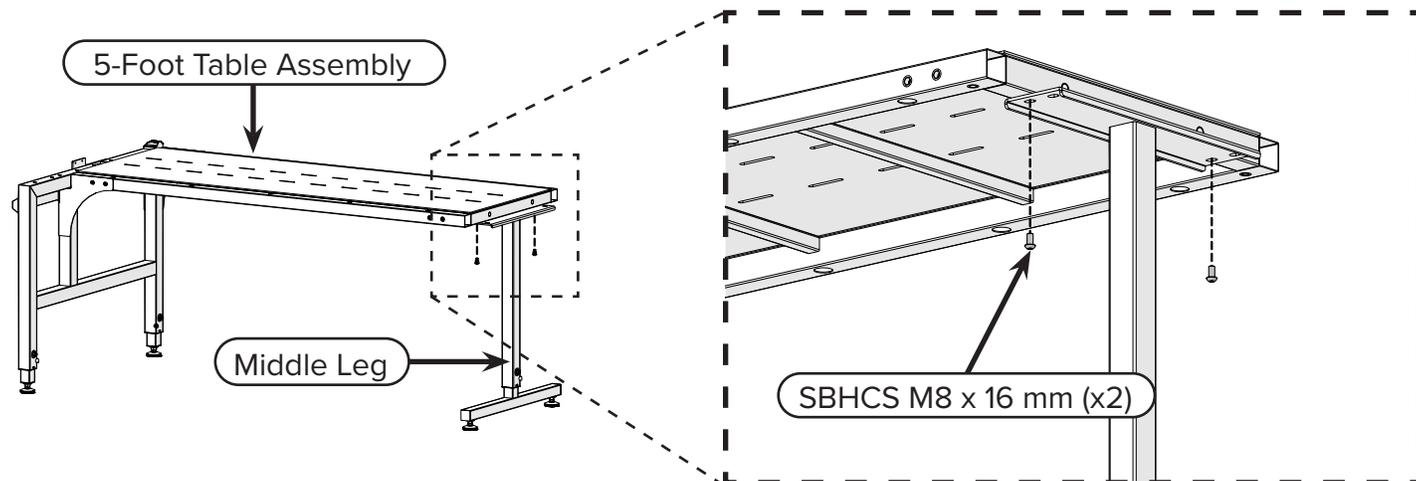
Next you're going to assemble the new "bones" of the frame, adding the middle leg and the 5-foot table to the frame.

With help from a friend, take the following steps to assemble the frame table:

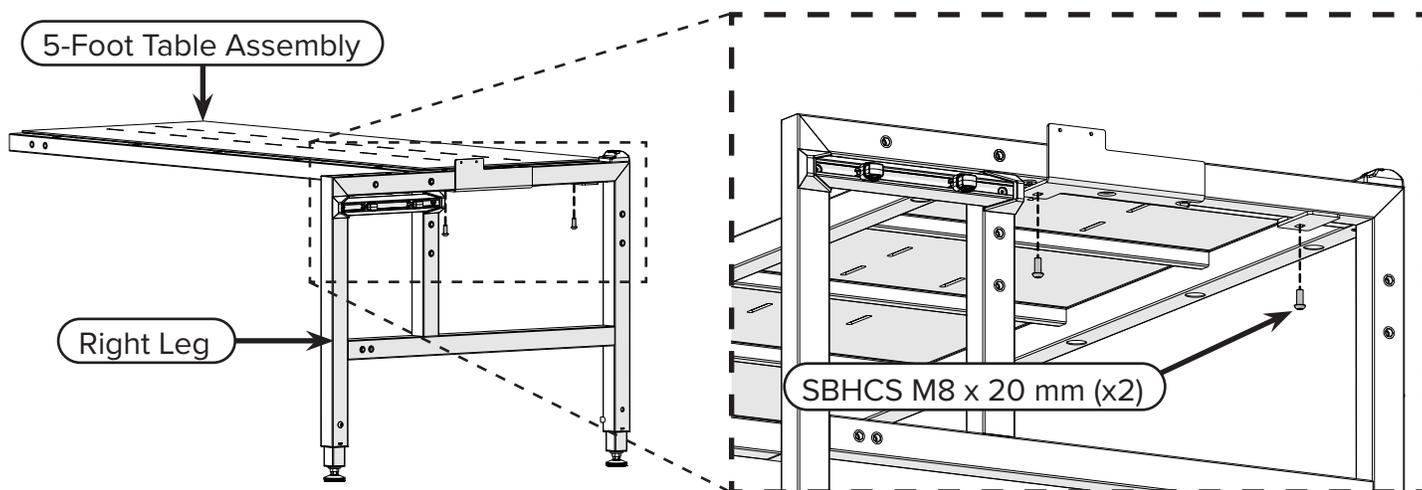
Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade

Task 3 - Installing the Table (continued)

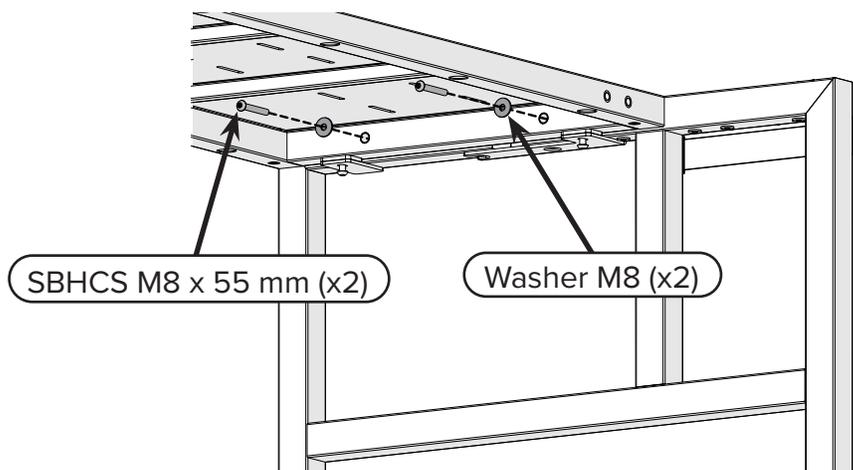
- 1 Loosely attach the **middle leg** to the end of the **5-foot table assembly** that is attached to the left leg with two **M8 x 16 mm SBHCS** and the 5 mm Allen wrench.



- 2 With a friend or a table's help, use the Allen wrench and two **M8 x 20 mm SBHCS** to loosely connect the second **5-foot table assembly** to the **right leg**.



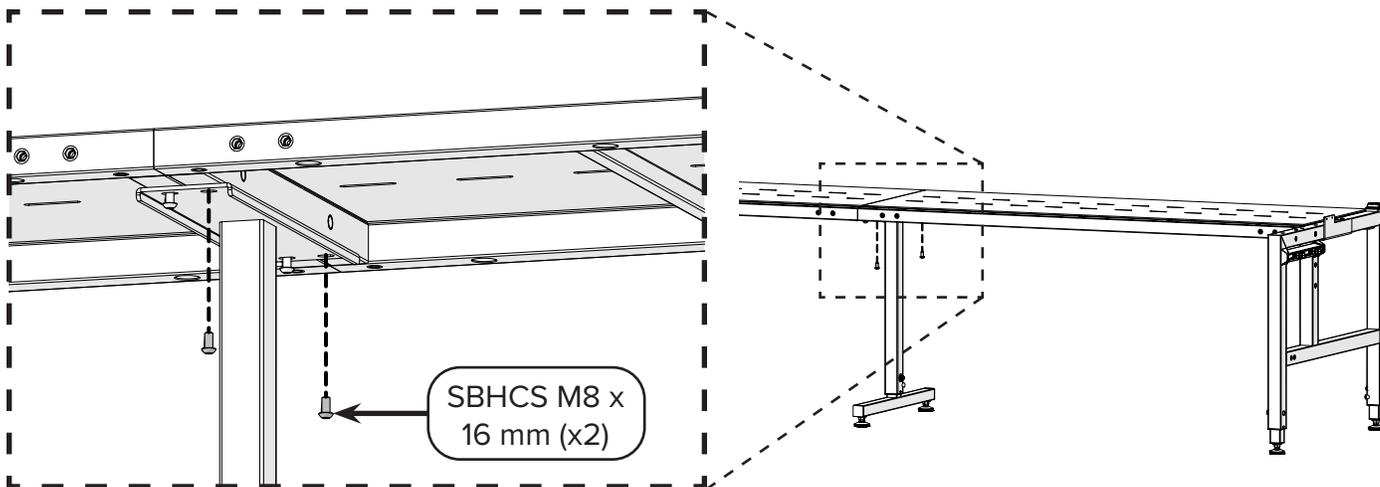
- 3 Loosely install two **M8 x 55 mm SBHCS** and two **M8 washers** to the side of the table and the right leg with the Allen wrench.



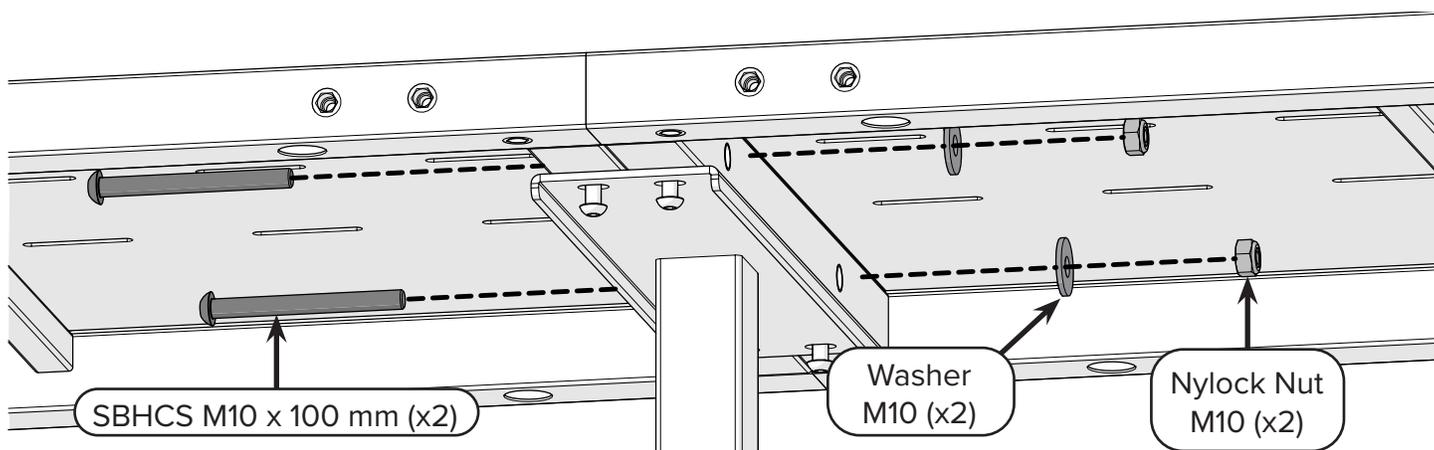
Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade

Task 3 - Installing the Table (continued)

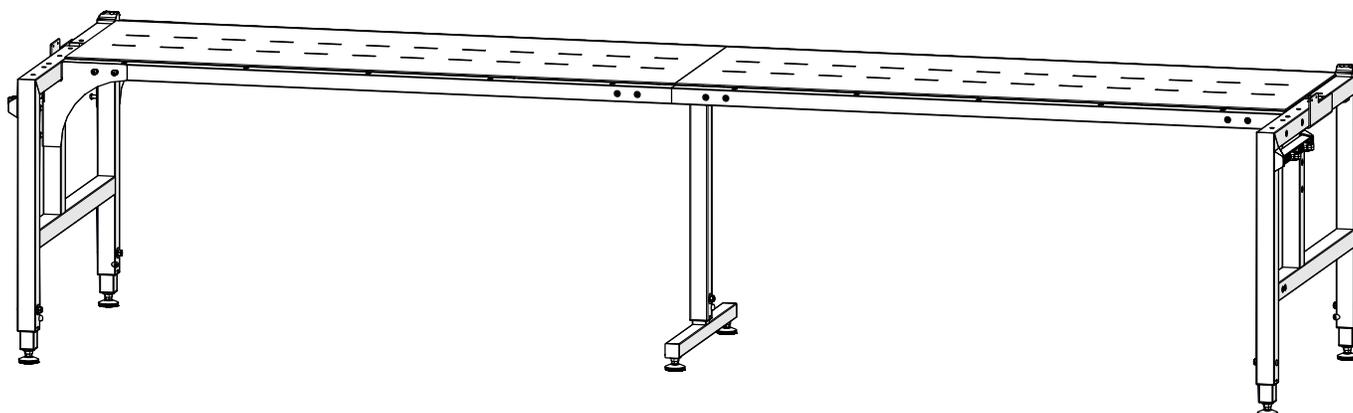
- 4 Loosely attach the other side of the second 5-foot table assembly to the middle leg with two **M8 x 16 mm SBHCS** and the Allen wrench.



- 5 Attach the 5 foot table assemblies together with two **M10 x 100 mm SBHCS**, two **M10 washers**, and two **M10 nylock nuts**. Loosely connect these pieces with the 6 mm Allen wrench and the 17 mm open-end wrench.



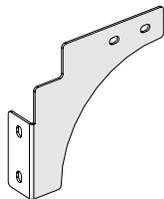
- 6 **Task Result:** The table sections have been *loosely* installed onto the frame legs. All the screws holding the tables on the legs need to be loose, including the ones you loosened when you took apart the hoop frame. You'll tighten all these screws at the end of the next task.



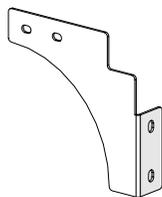
Task 4 - Attaching the Braces

Parts & Tools Needed

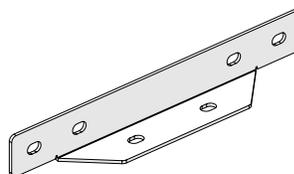
Corner Brace A
(with orig frame)



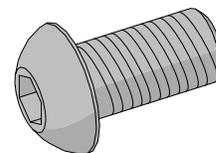
Corner Brace B
(with orig frame)



Middle Table Brace
(x2) (Box 6)



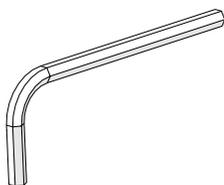
SBHCS M8 x 16 mm
(x20) (Box 6, Hardware
& with orig frame)



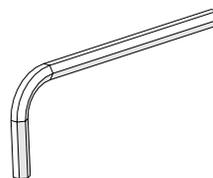
Frame Reference
Card Hook (Box 4,
Hardware)



Allen Wrench 6 mm



Allen Wrench 5 mm



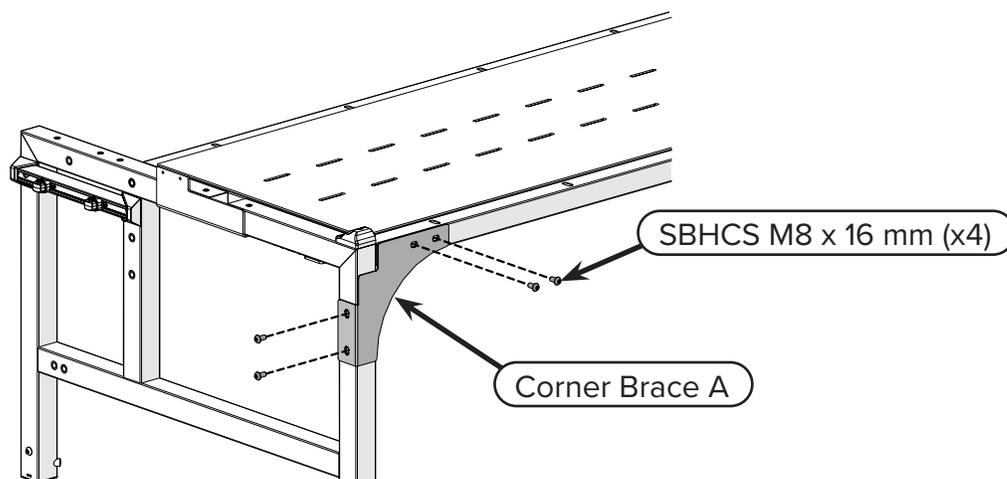
Open-End Wrench 14
mm and 17 mm



Instructions

The braces help support the table and make the frame sturdier. Take the following steps to attach and tighten the braces to the frame:

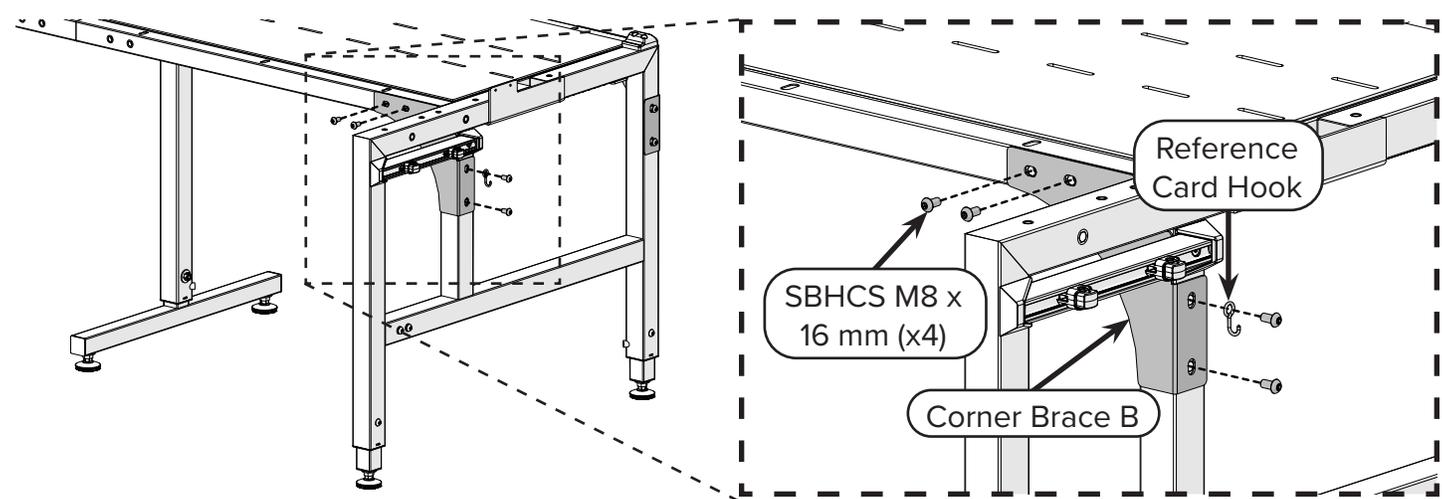
- 1 Loosely attach **corner brace A** to the back-right corner of the frame using four **M8 x 16 mm SBHCS** and the 5 mm Allen wrench. Do not tighten the screws yet.



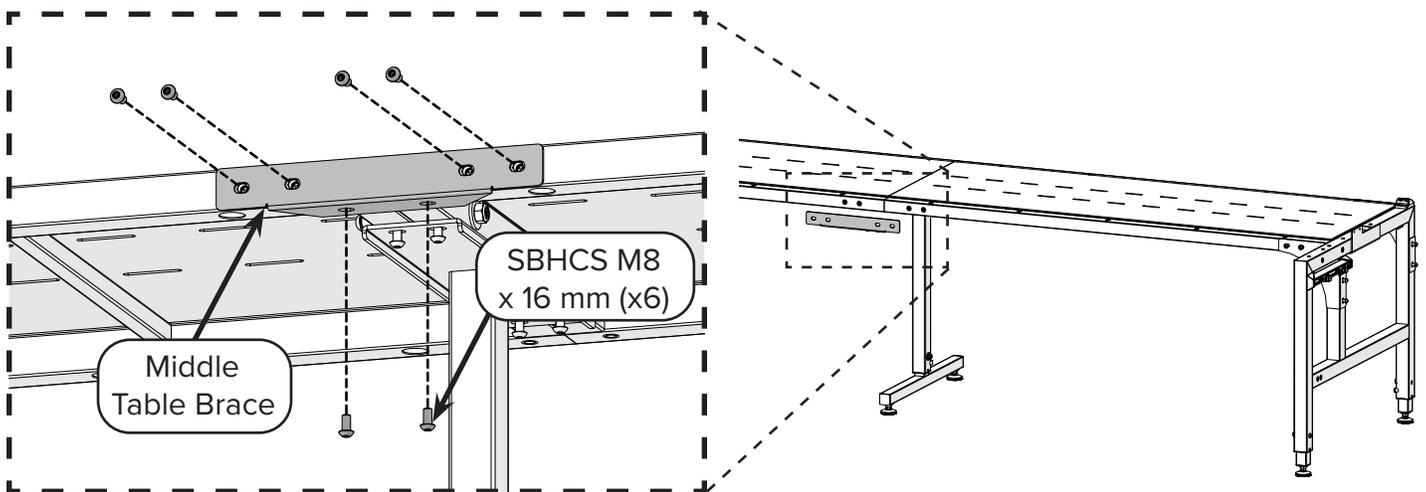
Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade

Task 4 - Attaching the Braces (continued)

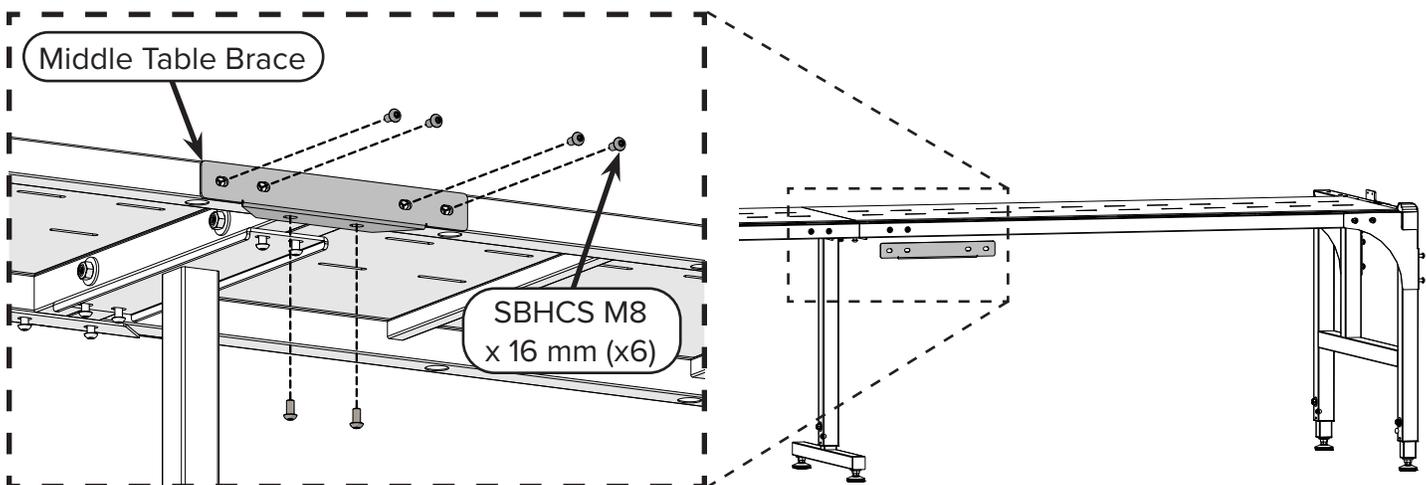
- 2 Loosely attach **corner brace B** and the **reference card hook** to the front-right corner of the frame using four **M8 x 16 mm SBHCS** and the Allen wrench. Do not tighten the screws yet.



- 3 Attach a **middle table brace** *loosely* to the front of the frame, where the 5-foot tables meet. Use six **M8 x 16 mm SBHCS** and the Allen wrench. Do not tighten the screws yet.



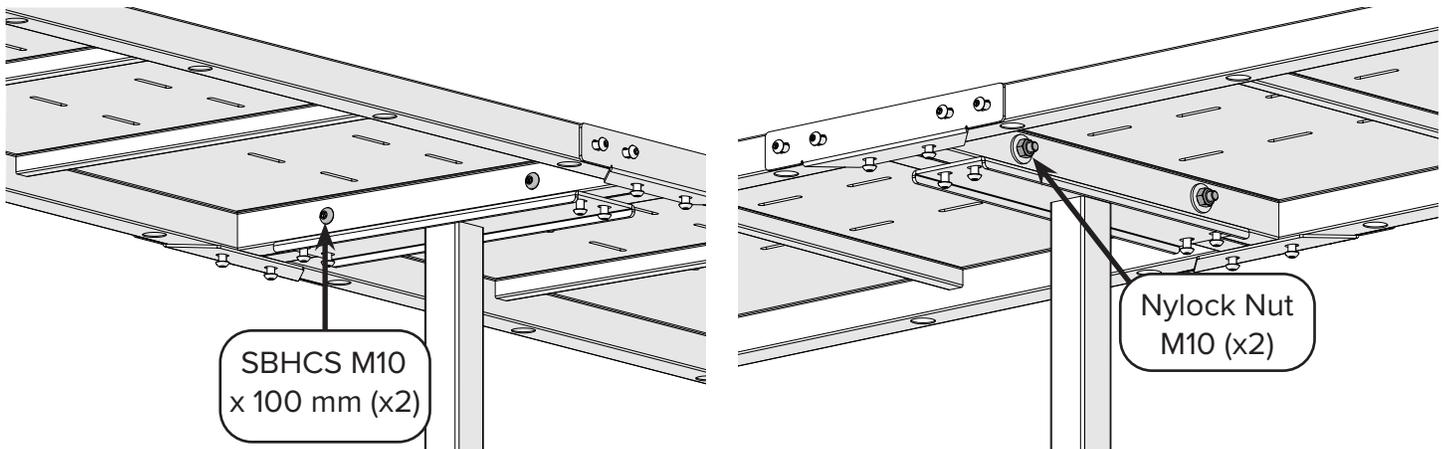
- 4 Attach a **middle table brace** *loosely* to the back of the frame, where the 5-foot tables meet. Use six **M8 x 16 mm SBHCS** and the Allen wrench. Do not tighten the screws yet.



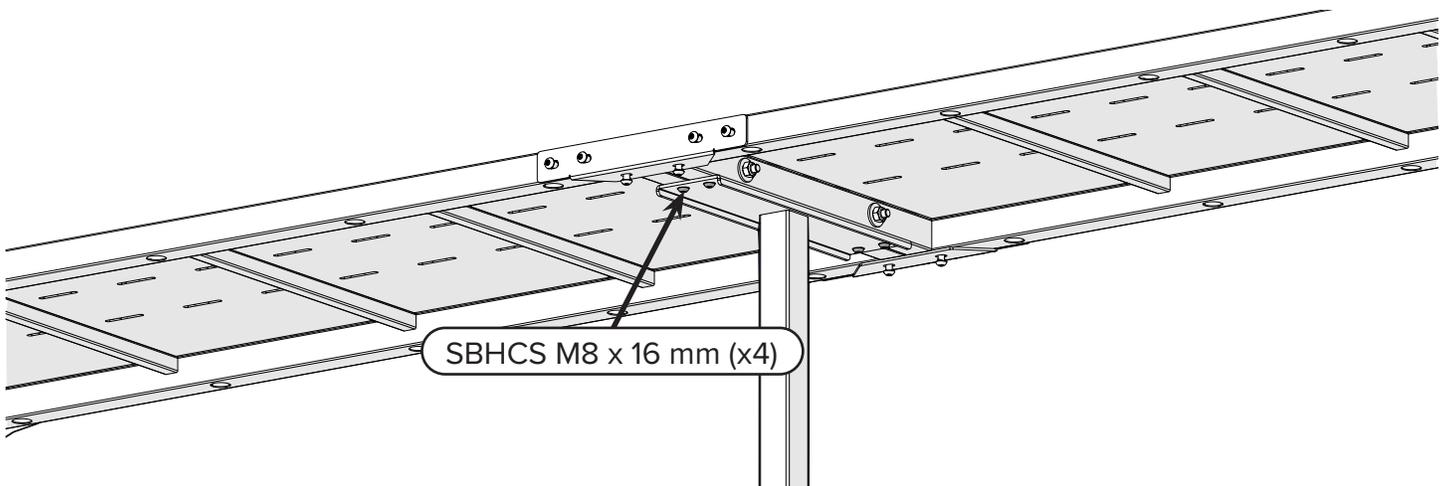
Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade

Task 4 - Attaching the Braces (continued)

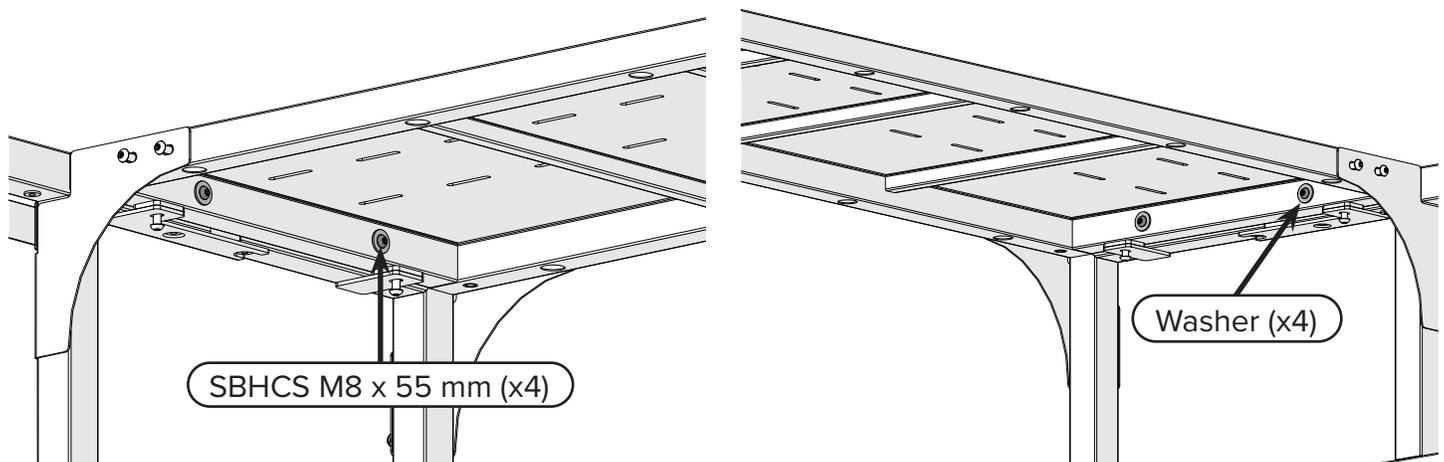
- 5 With the 17 mm open-end wrench and the 6 mm Allen wrench, tighten the two **M10 x 100 mm SBHCS** and two **M10 nylock nuts** that you left loose. These items are located just above the middle leg, where the 5-foot tables meet.



- 6 With the 5 mm Allen wrench, tighten the four **M8 x 16 mm SBHCS** you left loose on the middle leg.



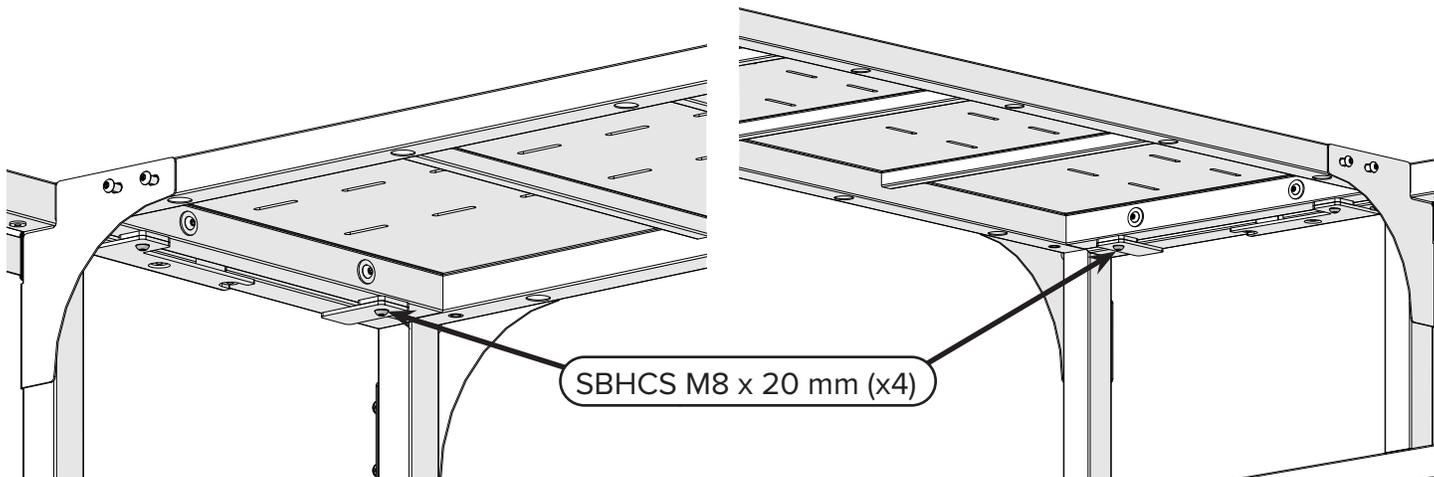
- 7 With the Allen wrench, tighten the two **M8 x 55 mm SBHCS** you left loose on each side of the tables (they have **washers** with them).



Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade

Task 4 - Attaching the Braces (continued)

- 8 With the Allen wrench, tighten the two **M8 x 20 mm SBHCS** you left loose under each table assembly on the underside near the legs.

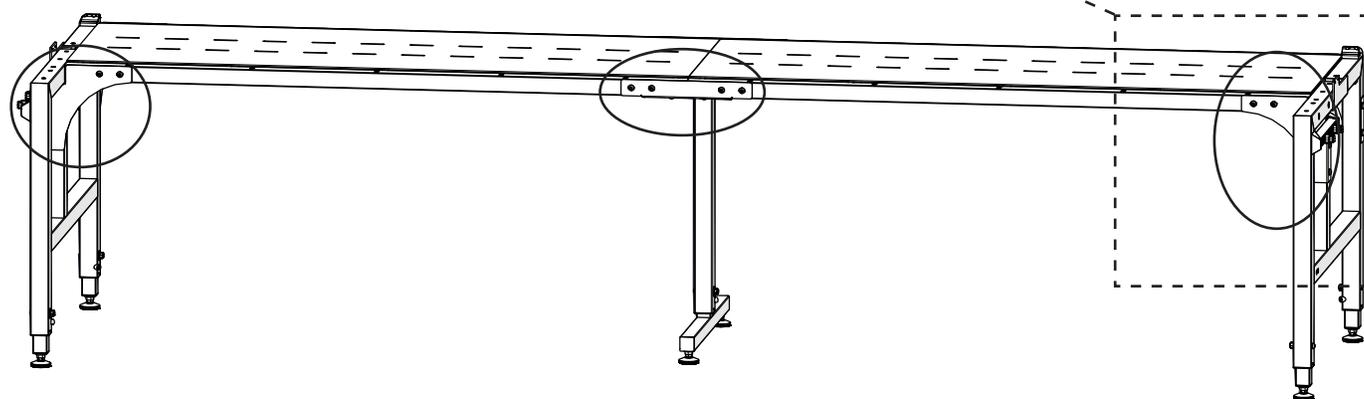
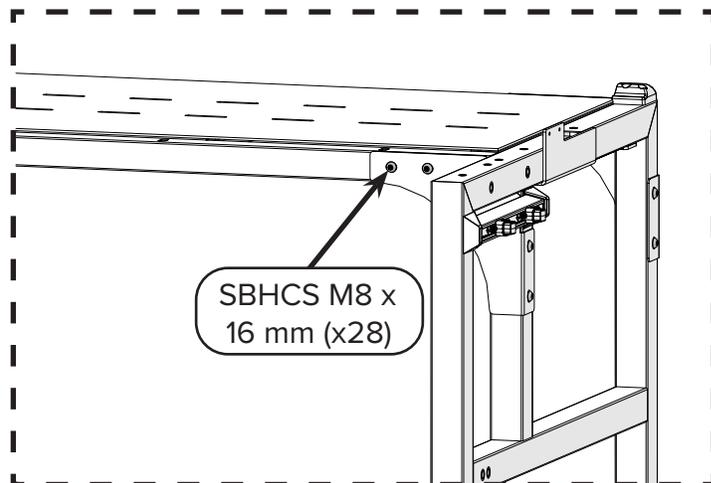


- 9 Use the Allen wrench to tighten all twenty-eight **M8 x 16 mm SBHCS** used to attach the braces on the four corners of the frame and in the middle where the tables meet.

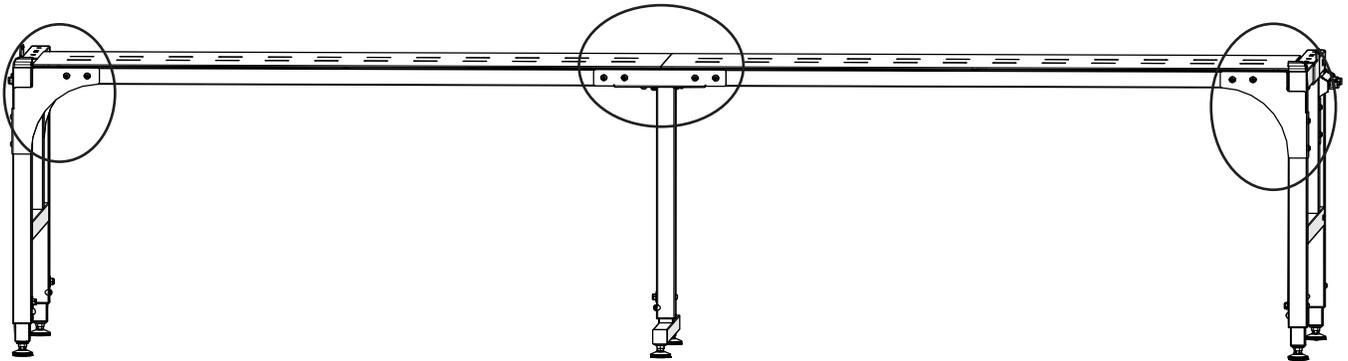
Note: There are six braces to tighten:

- Back-right corner (4 screws)
- Back-middle (6 screws)
- Back-left corner (4 screws)
- Front-right corner (4 screws)
- Front-middle (6 screws)
- Front-left corner (4 screws)

Total = 28 screws. These locations are circled in the two images below.

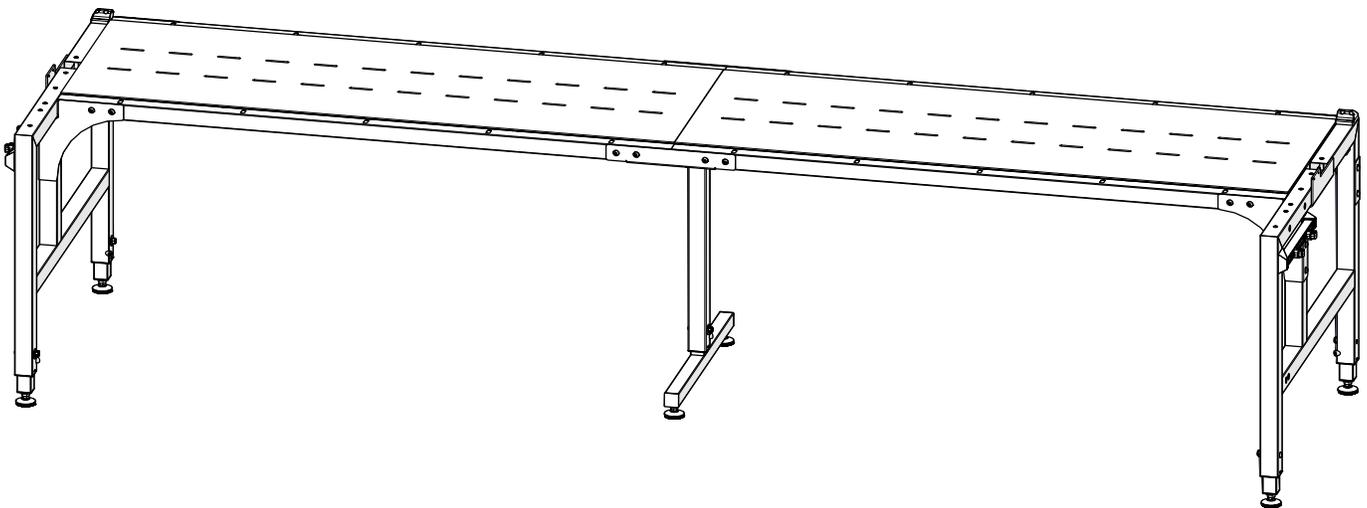


Front of Frame



Back of Frame

10 **Task Result:** The braces are all attached and the frame is sturdy.



Congratulations! You have upgraded to the 10-foot Evolution Elite-Frame.

Now, use the instructions in the Evolution Elite-Frame manual that came with your upgrade kit (in box 6) to fully assemble your upgraded frame. Start with Part One, Task 5, where you'll be installing the take-up rail towers.

From this point on, the assembly process is the same as if you'd purchased the 10-Foot Elite-Frame from the start. However, pay attention to these small changes:

- Sometimes the instructions in the Evolution Elite-Frame manual will indicate that the parts or tools to use are in boxes 1 or 2. For you, replace that with (*with orig frame*) as you will be using the pieces that came with your hoop frame instead. If the Elite-Frame instructions direct you to use items from boxes 4 or 6, do so, as those are the upgraded versions.
- When you are installing the tracks (task 7), pay attention to the following:
 - Skip the step to shift the end cap to the right, as you have already done so.
 - Make sure your channel lock is up and out of the way so that your bottom carriage can move freely across the frame while you align the tracks. In the Evolution Elite-Frame instructions, it is assumed that you haven't installed the channel lock yet, but since you are upgrading, your channel lock is already installed.
- Skip installing the channel locks, as you have already done so.
- Make sure you put your machine back on your frame before you install the rails. The Elite-Frame instructions tell you to do that during channel lock installation, which you skipped.
- When you are instructed to assemble your hand wheel (task 12), you can skip that step, as your hand wheel is already put together. Make sure you still follow the step to attach the hand wheel to the end of the take-up rail.

Make sure you keep following the instructions in the Evolution Elite-Frame manual for positioning the rails correctly and leveling the frame.

Use Part Four of the Evolution Elite-Frame instruction manual to learn about your new frame, including putting your quilt on the frame.

Best of luck on your quilting journey!

Note: If your original frame is the 8-Foot or 10-Foot Evolution Elite-Frame, then these instructions don't apply to you. Go to "Preparing to Upgrade An Elite-Frame" on page 82 for the first set of instructions you need.

Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

Progress Checkpoint

Before you begin assembling your frame, make sure:

- You purchased the 7-Foot Extension kit. You must have boxes 4, 6, and 7. If you have other boxes or fewer boxes in your upgrade kit then you have purchased a different size of frame. If you have boxes 4 and 6, go to "Completing the Hoop Frame to 10-Foot Elite-Frame Upgrade" on page 41. If you have boxes 4 and 5, go to "Completing the Hoop Frame to 8-Foot Elite-Frame Upgrade" on page 23.
- You have taken apart the Evolution Hoop-Frame, as instructed in "Taking Apart the Hoop Frame" on page 1.

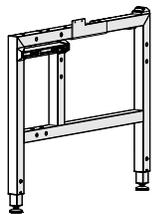
Task 1 - Setting the Height of the Middle Legs.....	62
Task 2 - Assembling the Tracks	65
Task 3 - Installing the Table.....	72
Task 4 - Attaching the Braces	76

Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

Task 1 - Setting the Height of the Middle Legs

Parts & Tools Needed

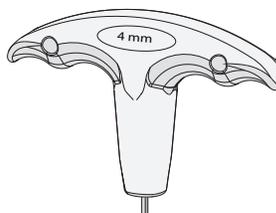
Right Leg
(with orig frame)



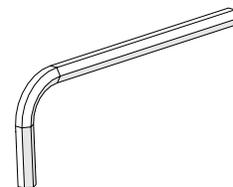
Middle Leg (x2)
(Box 6 & Box 7)



T-handle Allen Wrench
4 mm



Allen Wrench 5 mm



Open-End Wrench
10 mm and 13 mm
(with orig frame)

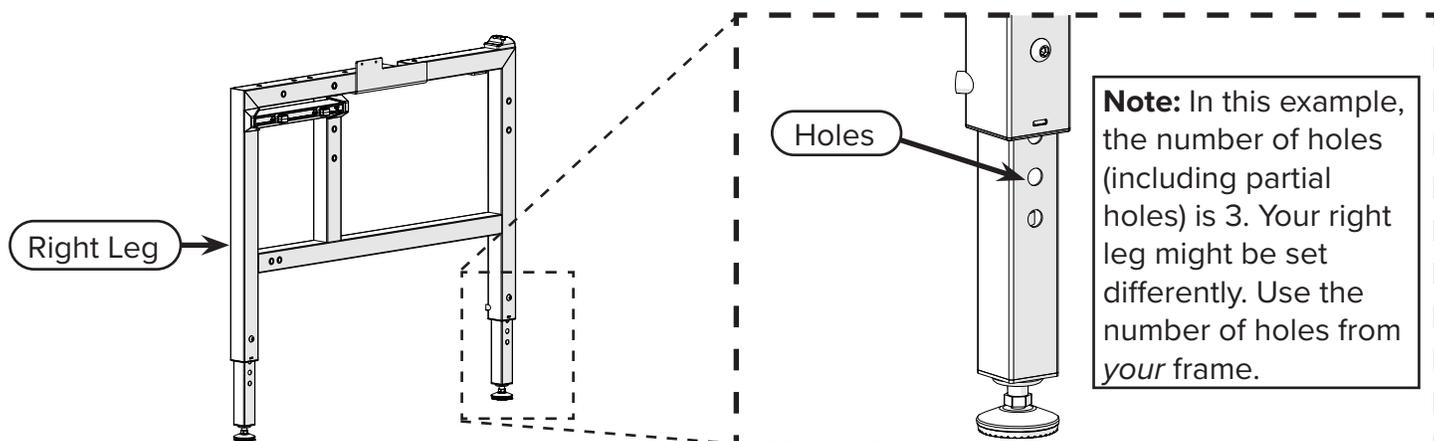


Instructions

Just as you needed to set the height of the legs when you assembled the original frame (so that the height would be comfortable during prolonged use), you must set the height of the middle legs before you put the frame together.

Do the following to set the height of the middle legs:

- 1 Locate the **right leg** of the frame (it's the one you just took completely off the frame) and examine it, noting how many **holes** you can see on each leg, including partial holes. Remember or write down the number.

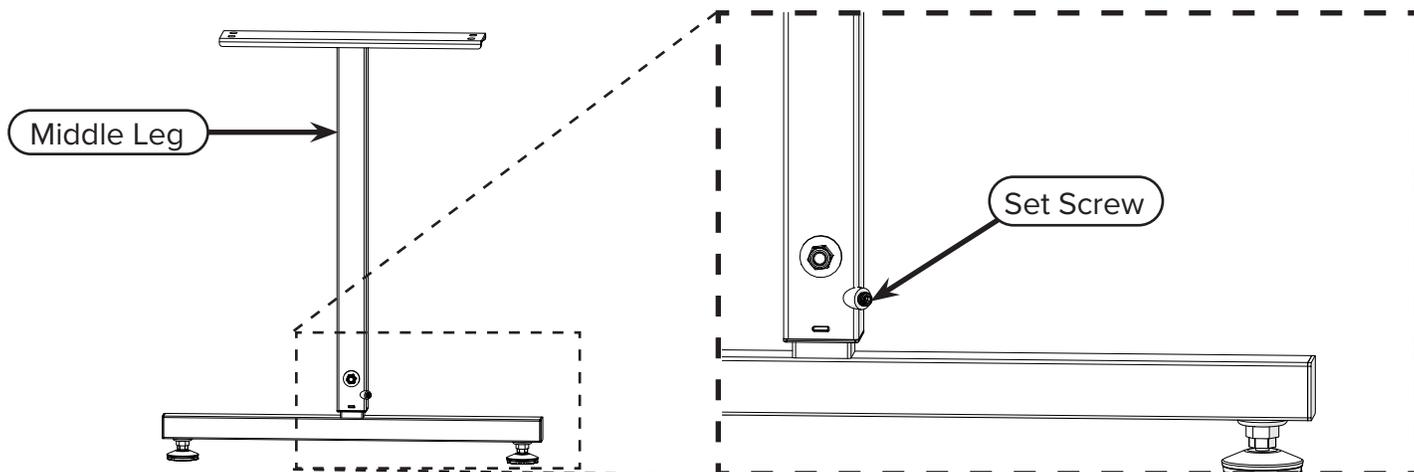


Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

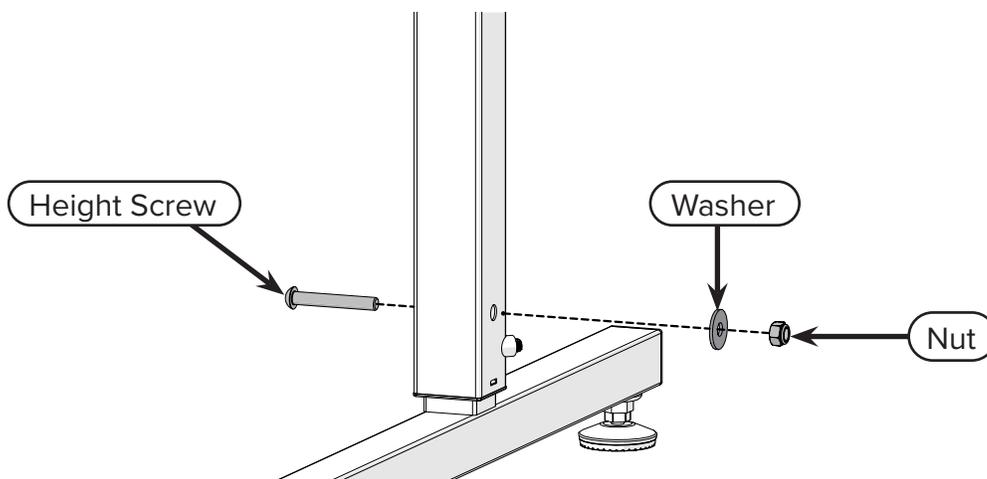
Task 1 - Setting the Height of the Middle Legs (continued)

2 For *both* middle legs, do the following:

a Loosen the **set screw** on the **middle leg** with the 4 mm Allen wrench.

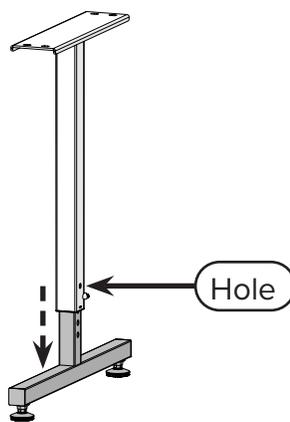


b Remove the **height screw**, **washer**, and **nut** from the middle leg with the 5 mm Allen wrench and the 13 mm open-end wrench.



c Pull out the bottom part of the middle leg until you can see the same number of **holes** as the other two legs, using the number of holes you noted on the right leg.

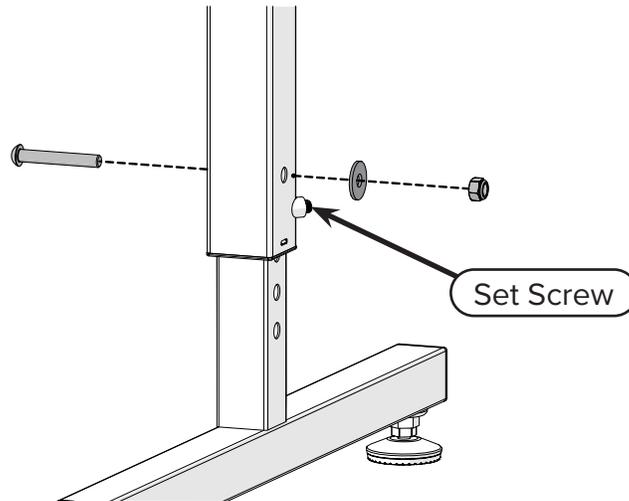
Note: In this example, the height has been set so that 3 holes are visible under the leg. Your frame height might be different. Use the height of *your* frame.



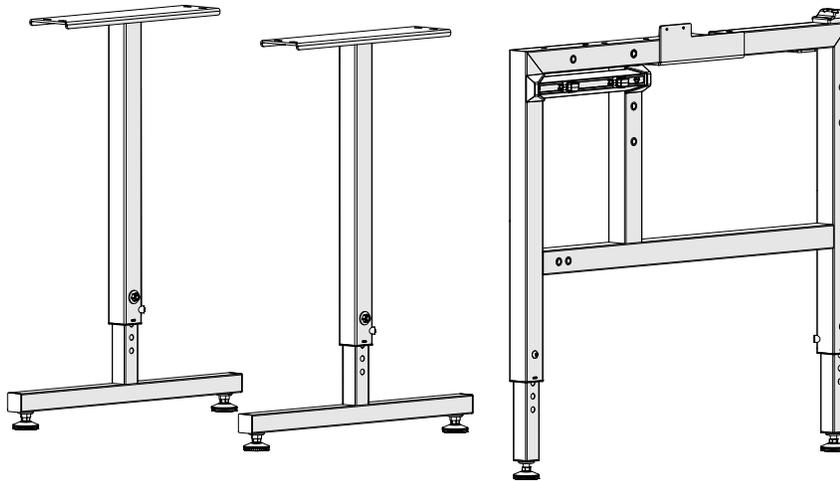
Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

Task 1 - Setting the Height of the Middle Legs (continued)

- d Reinstall the height screw, washer, and nut, and tighten the **set screw**.



- 3 **Task Result:** The middle legs are the same height as the other legs.



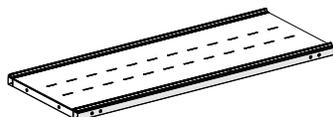
Task 2 - Assembling the Tracks

Parts & Tools Needed

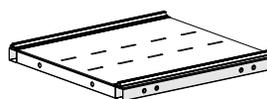
5-ft Metal Tracks
(x2)(with orig frame,
removed earlier)



5-ft Table Assembly -
5-ft Extension (Box 6)



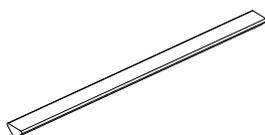
2-ft Table Assembly
(Box 7)



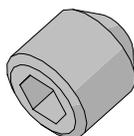
12-ft Plastic Track
(Box 7)



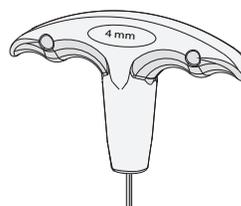
Track Support
Connector (x6)
(Box 6 & 7, Hardware)



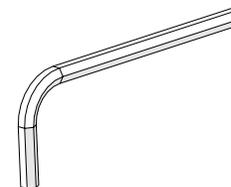
Socket CSS
M6 x 6 mm (x24)
(Box 6 & 7, Hardware)



T-handle Allen Wrench
4 mm



Allen Wrench 3 mm

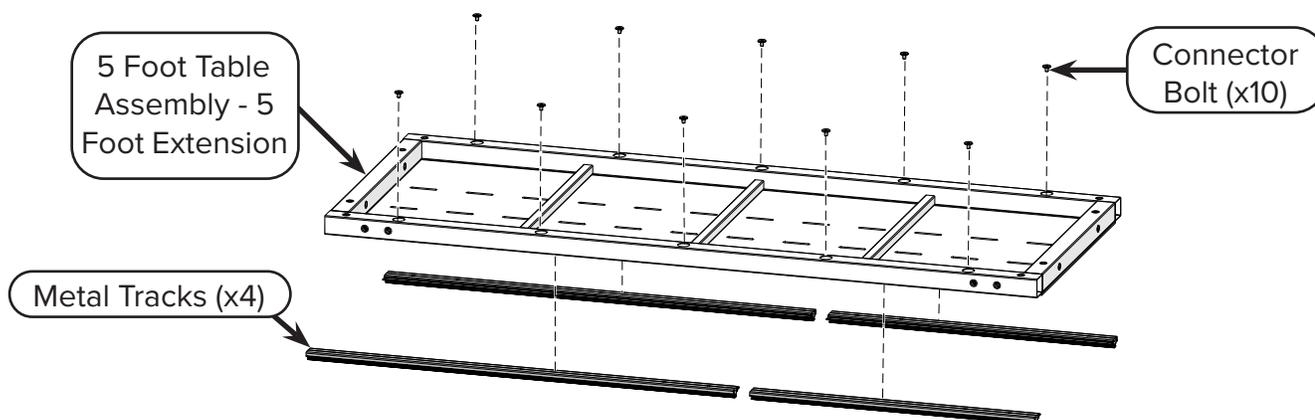


Instructions

To make the frame longer, you need to add more tracks to the ones you removed from the 5-foot frame. To protect the tracks during shipping, they are sent to you installed on the table assembly. However, for the optimal performance from your frame, you must partially take them apart and then reassemble the tracks.

Take the following steps to assemble the tracks:

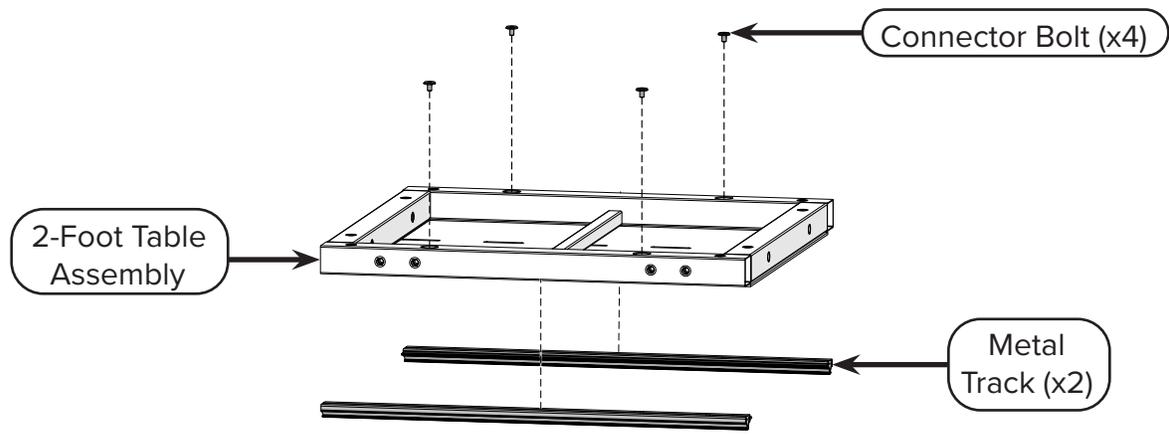
- 1 Remove the ten **connector bolts** installed in the **5 foot table assembly - 5 foot extension** with the 4 mm Allen wrench. Two 3-foot and two 2-foot **metal tracks** are now separated from the table. Set the connector bolts aside. You'll use them later.



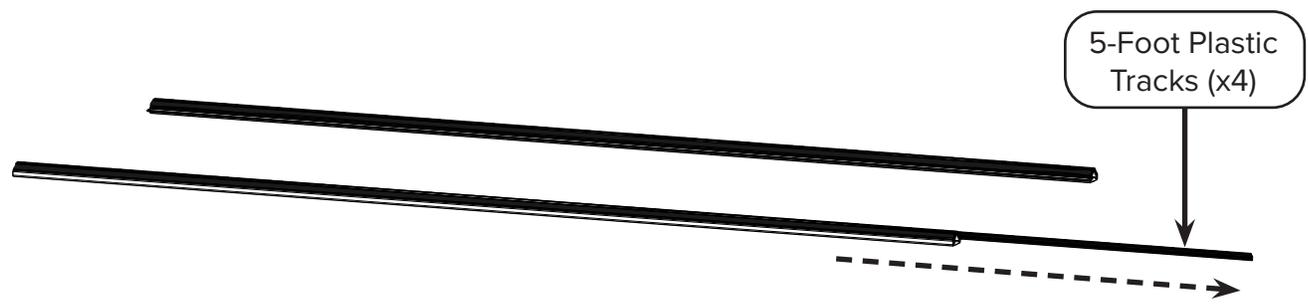
Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

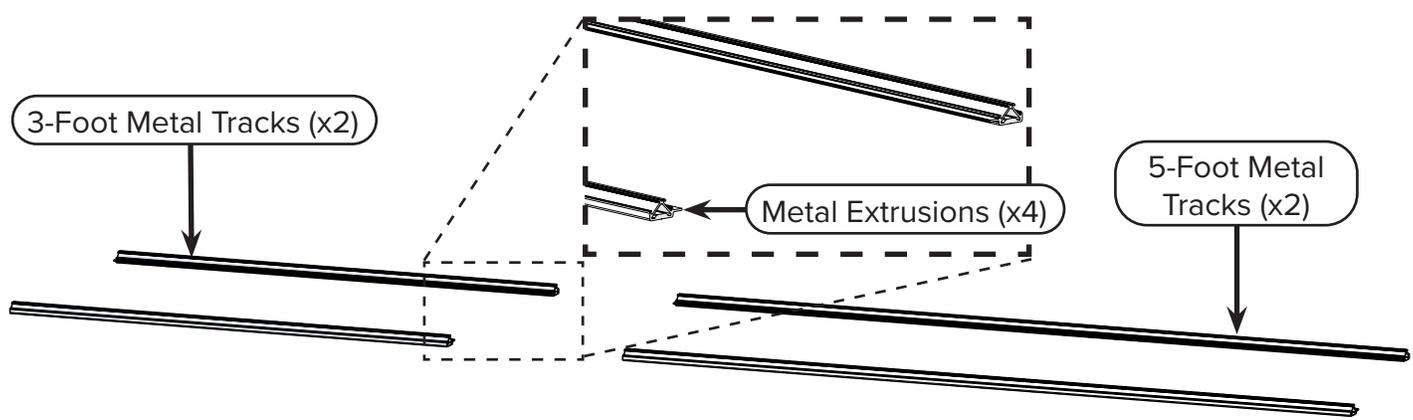
- 2 Remove the four **connector bolts** in the **2-foot table assembly** with the 4 mm Allen wrench. Two 2-foot **metal tracks** are now separated from the table. Set the connector bolts aside. You'll use them later.



- 3 Locate the 5-foot metal tracks you removed earlier. Each of them has two **plastic tracks** installed in them. They were used for the hoop frame. Slide all four plastic tracks out of the metal tracks. You can discard the plastic tracks, as they aren't needed again.



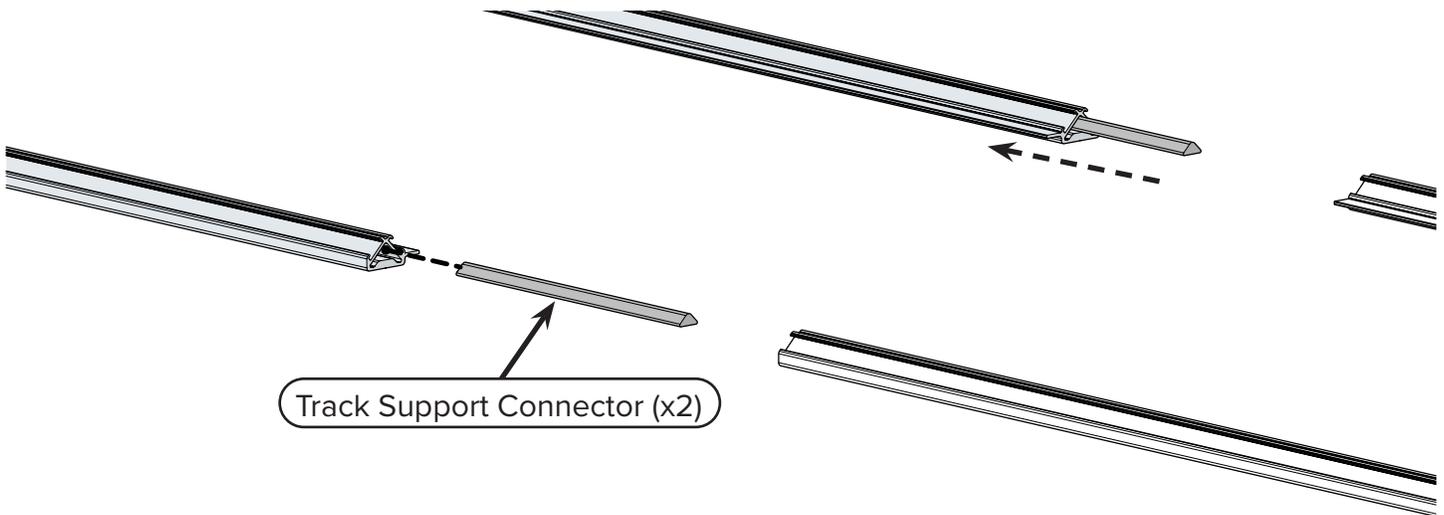
- 4 Line up the **3-foot metal tracks** to the left of the **5-foot metal tracks**. Note the orientation of the **metal extrusions**, and make sure the extrusions face the inside of all the tracks.



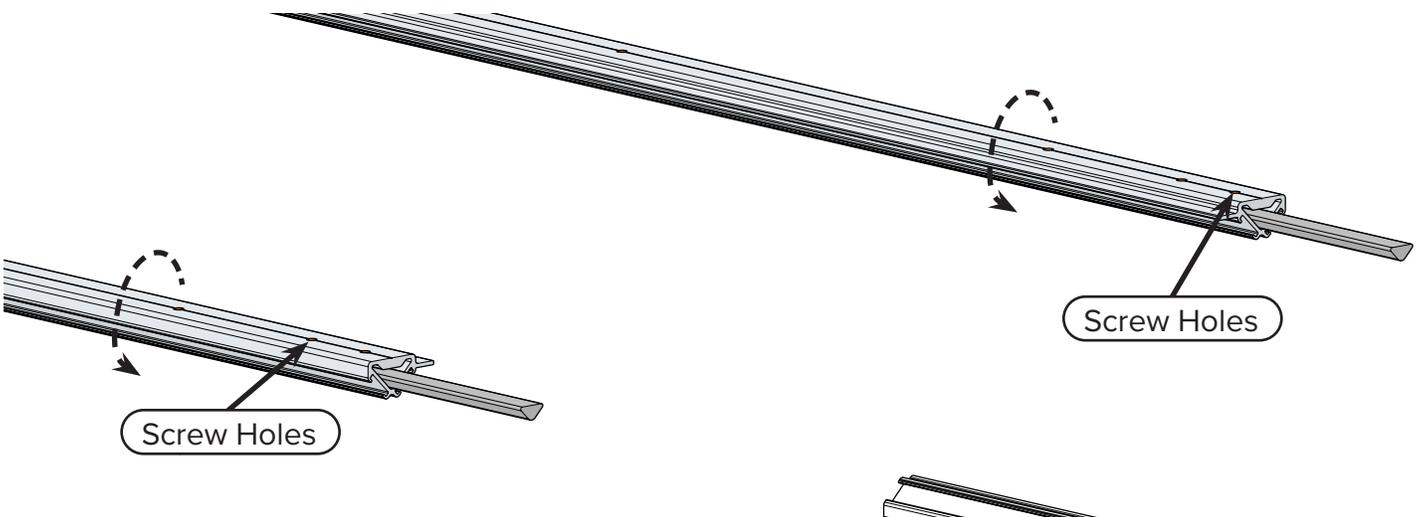
Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

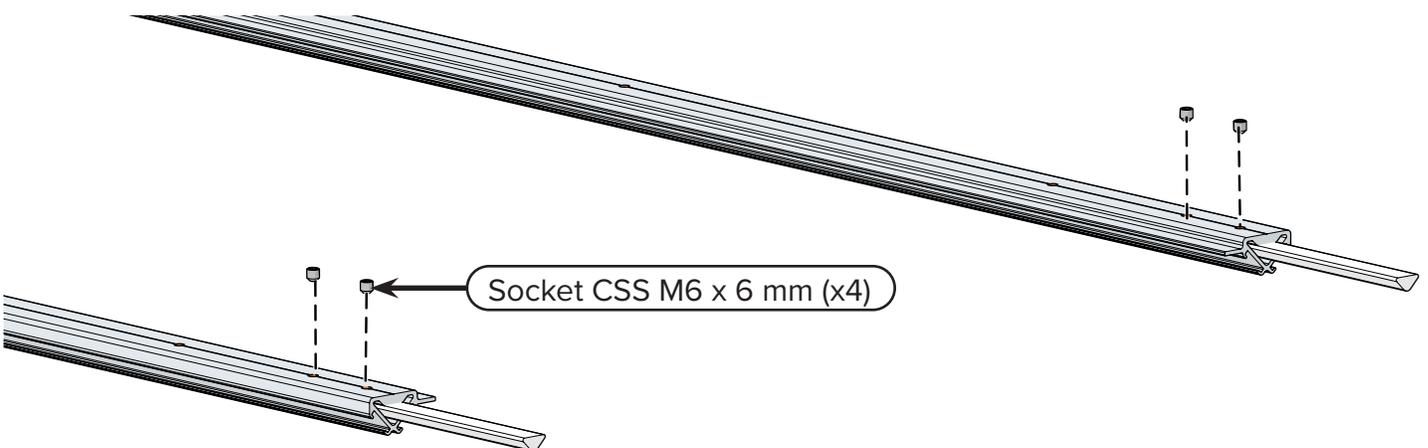
- 5 Place a **track support connector** halfway into each of the 3-foot metal tracks.



- 6 Carefully flip the 3-foot metal tracks to expose the **screw holes** at the bottom.



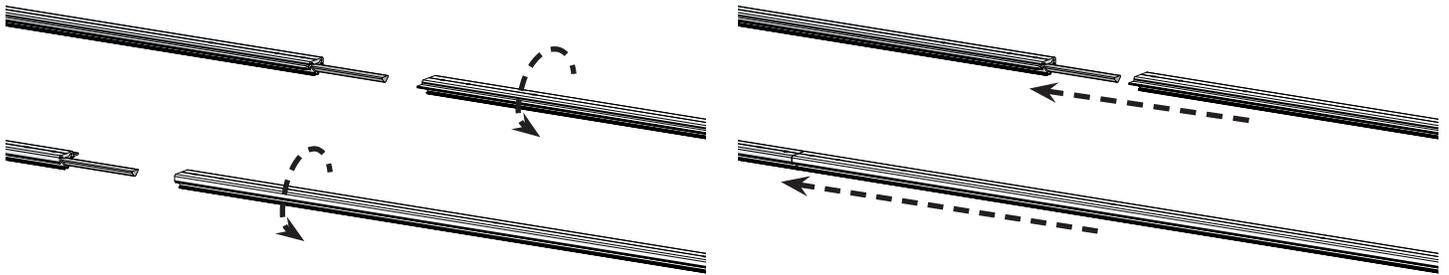
- 7 Use the 3 mm Allen wrench to install two **M6 x 6 mm Socket CSS** into each of the 3-foot metal tracks.



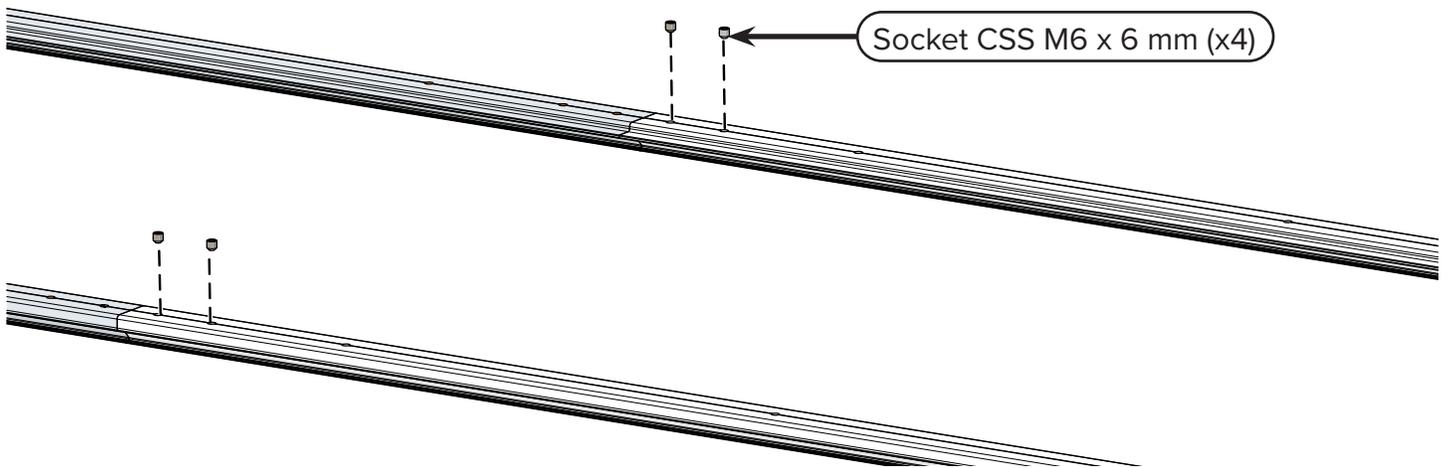
Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

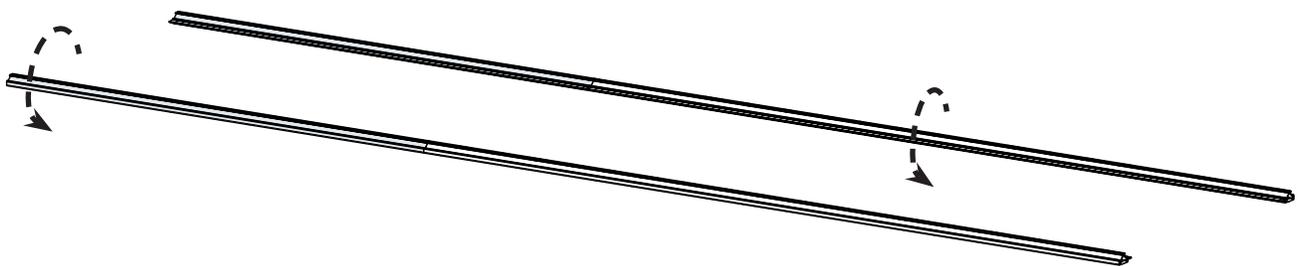
- 8 Flip the 5-foot metal tracks over, and then slide them onto the track support connectors.



- 9 Use the 3 mm Allen wrench to install two **M6 x 6 mm Socket CSS** into each of the 5-foot metal tracks to secure them to the connectors.



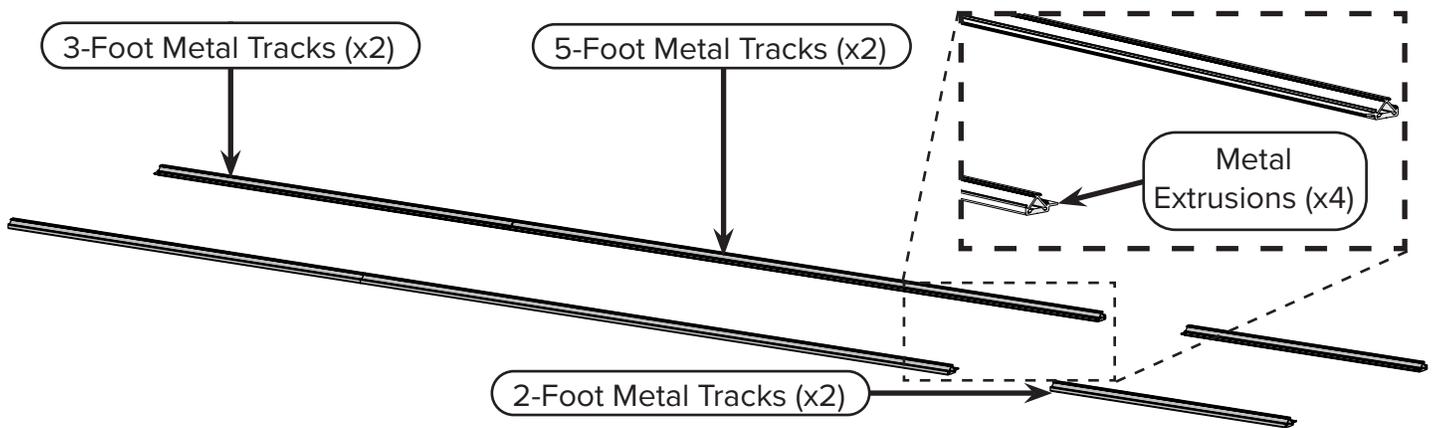
- 10 Flip the connected tracks over again.



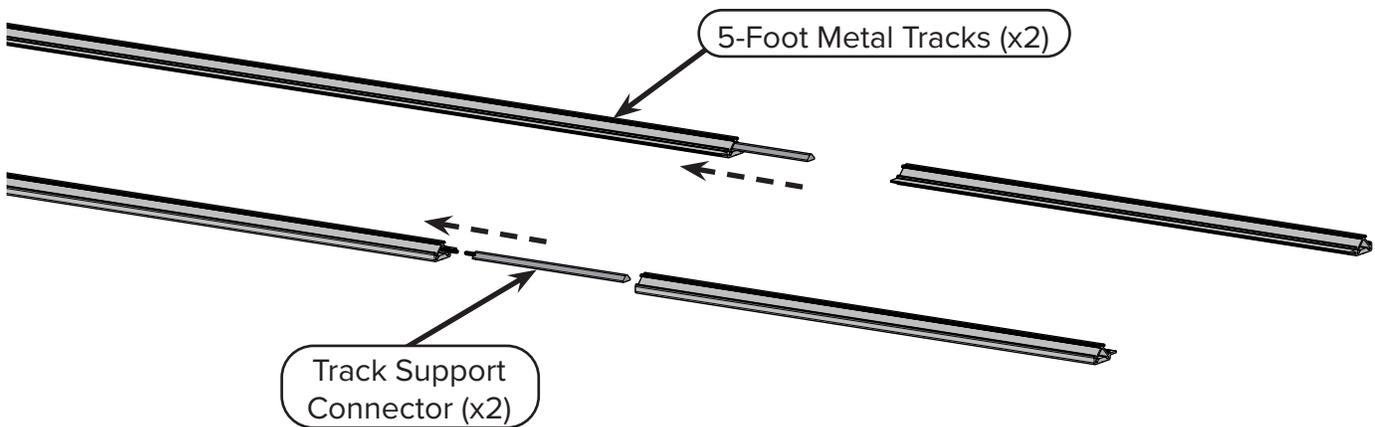
Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

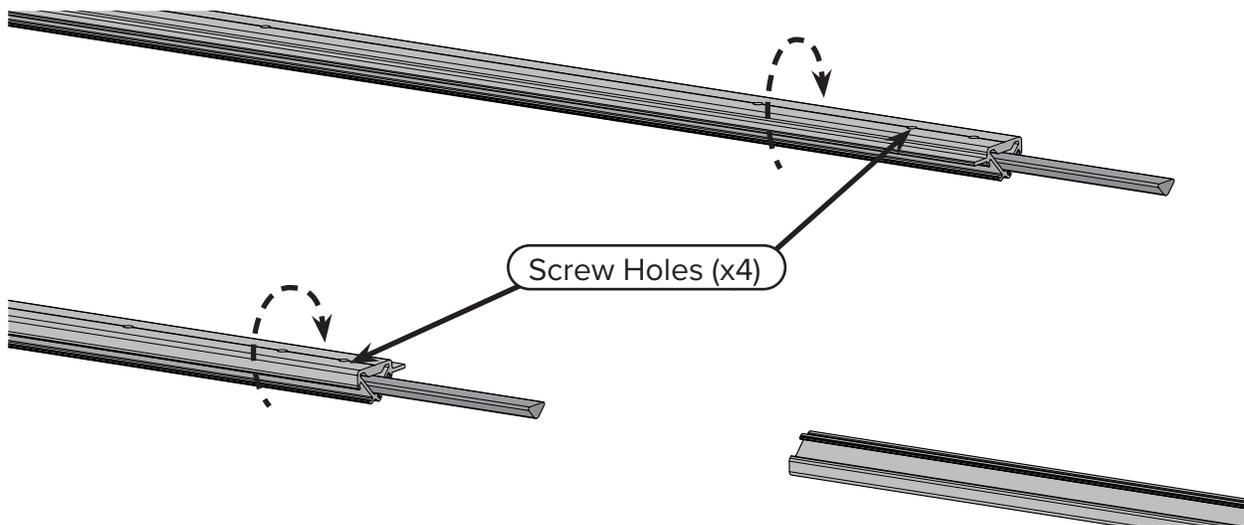
- 11 Align one set of **2-foot metal tracks** to the right of the **long metal tracks**. Note the orientation of the **metal extrusions**, and make sure the extrusions face the inside of all the tracks.



- 12 Place a **track support connector** halfway into the end of the **5-foot metal tracks**.



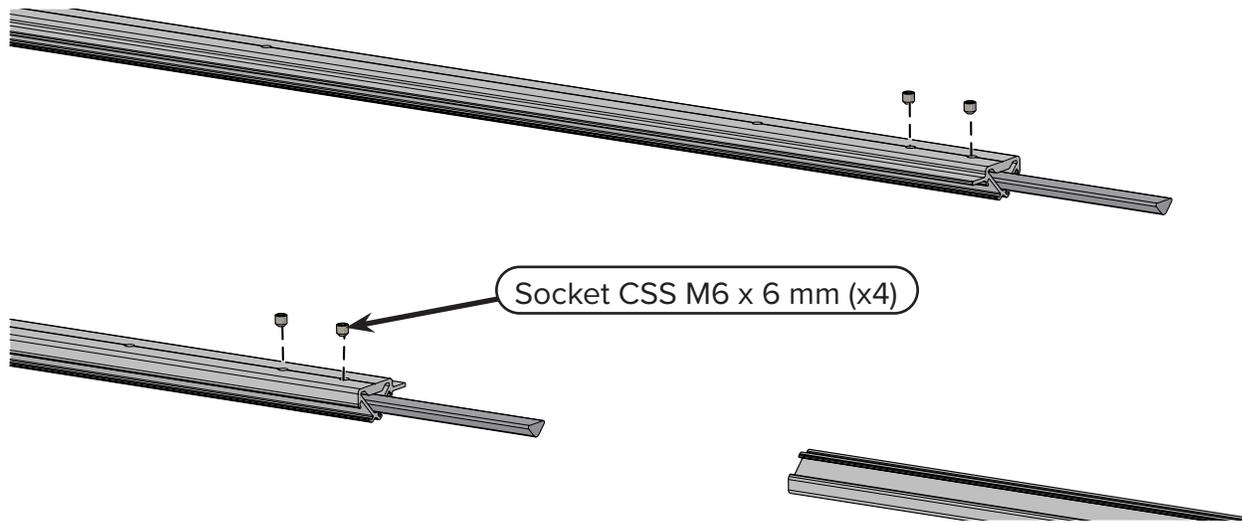
- 13 Carefully flip the long metal tracks to expose the **screw holes** at the bottom.



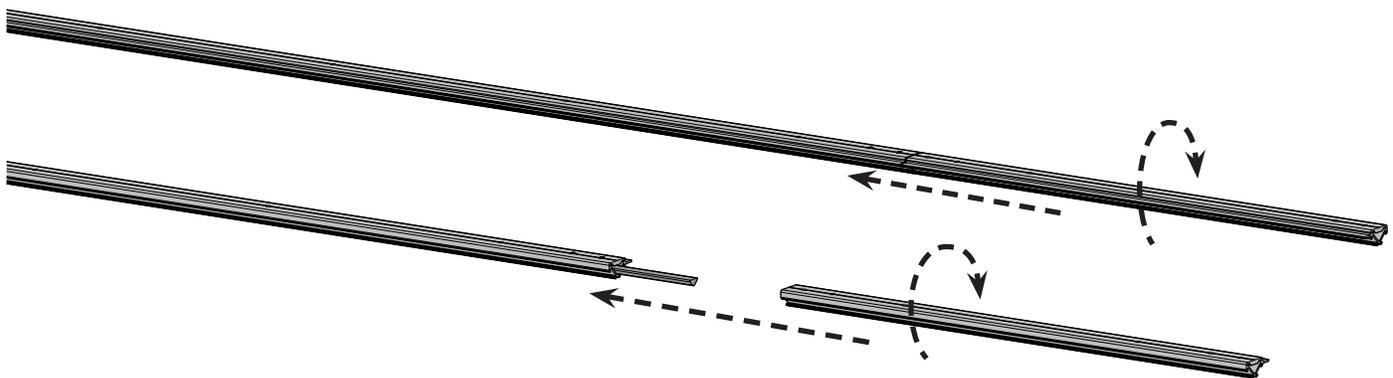
Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

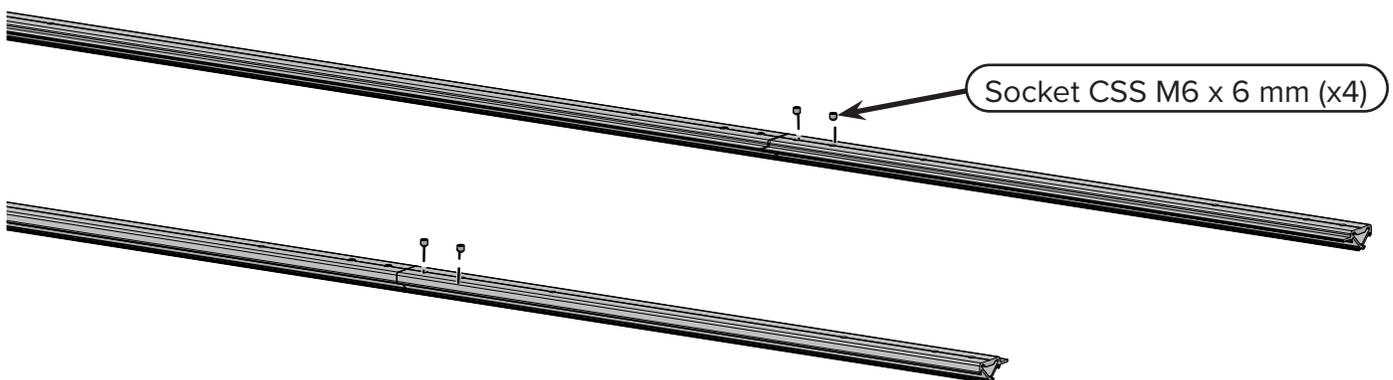
- 14 Use the Allen wrench to install two **M6 x 6 mm Socket CSS** into each of the long metal tracks.



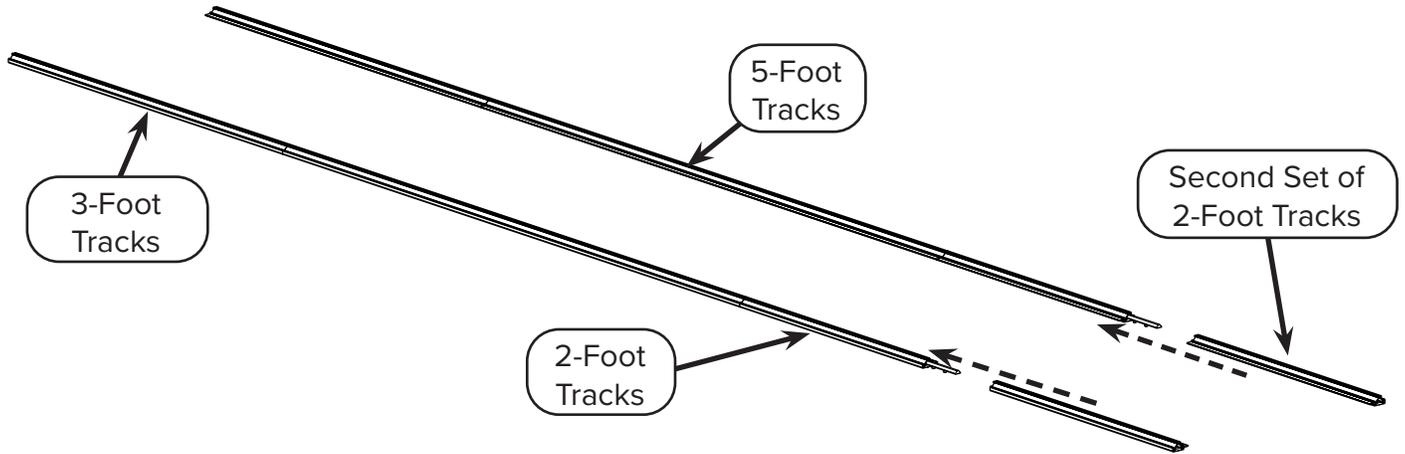
- 15 Flip the **2-foot metal tracks** over and then slide them onto the track support connectors.



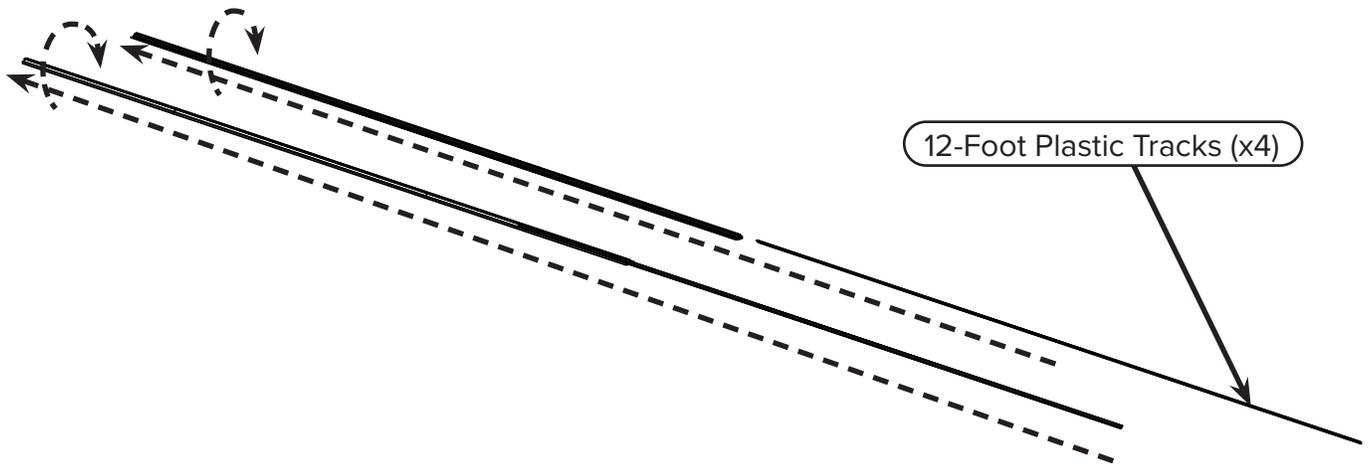
- 16 Use the Allen wrench to install two **M6 x 6 mm Socket CSS** into each of the 2-foot metal tracks.



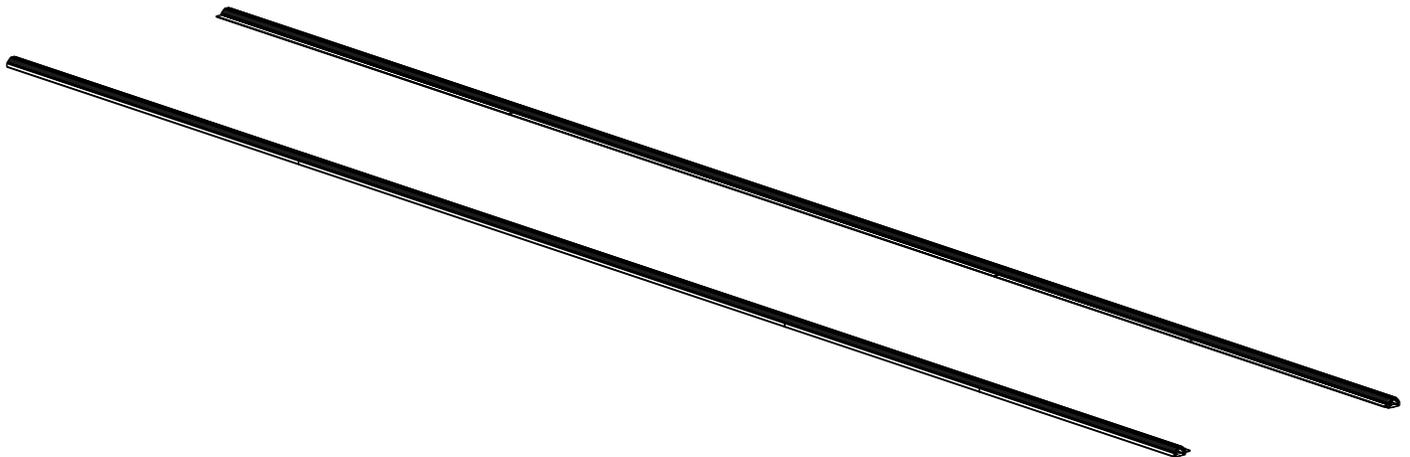
- 17 Flip the connected tracks over again, and repeat steps 12–16, installing the second set of **2-foot tracks** on the right of the **long metal tracks**.



- 18 Flip the assembled tracks for the last time and then slide the **12-foot plastic tracks** into each metal track assembly.



- 19 **Task Result:** The 12-foot tracks are fully assembled. You'll put them on the frame later.

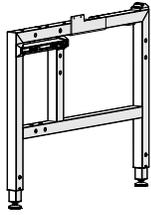


Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

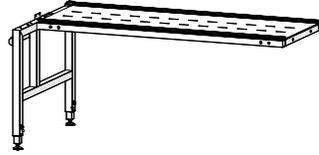
Task 3 - Installing the Table

Parts & Tools Needed

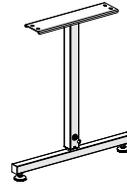
Right Leg



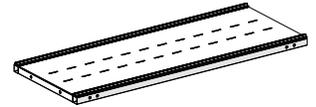
Left Leg with 5-ft Table



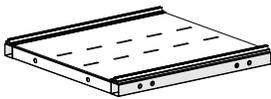
Middle Leg (x2)



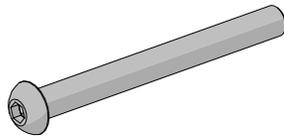
5-ft Table Assembly



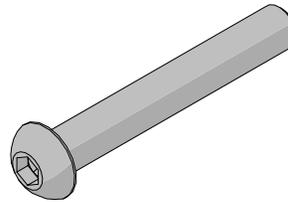
2-ft Table Assembly



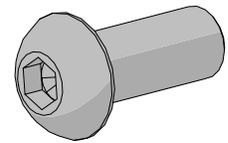
SBHCS
M10 x 100 mm (x4)
(Box 6 & 7, Hardware)



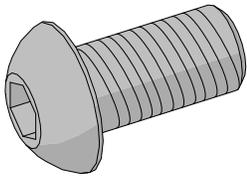
SBHCS M8 x 55 mm
(x2) (with orig frame)



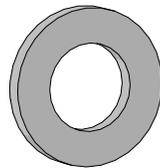
SBHCS M8 x 20 mm
(x2) (with orig frame)



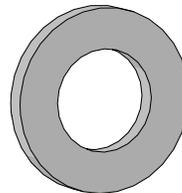
SBHCS
M8 x 16 mm (x8)
(Box 6 & 7, Hardware)



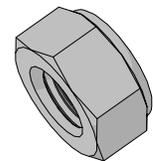
Washer M8 (x2)
(with orig frame)



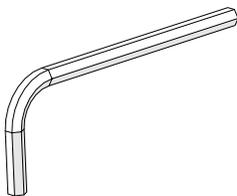
Washer M10 (x4)
(Box 6 & 7, Hardware)



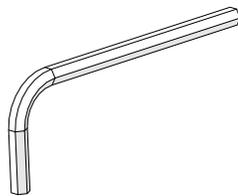
Nylock Nut M10 (x4)
(Box 6 & 7, Hardware)



Allen Wrench 6 mm



Allen Wrench 5 mm



Open-End Wrench
14 mm and 17 mm
(with orig frame)



Instructions

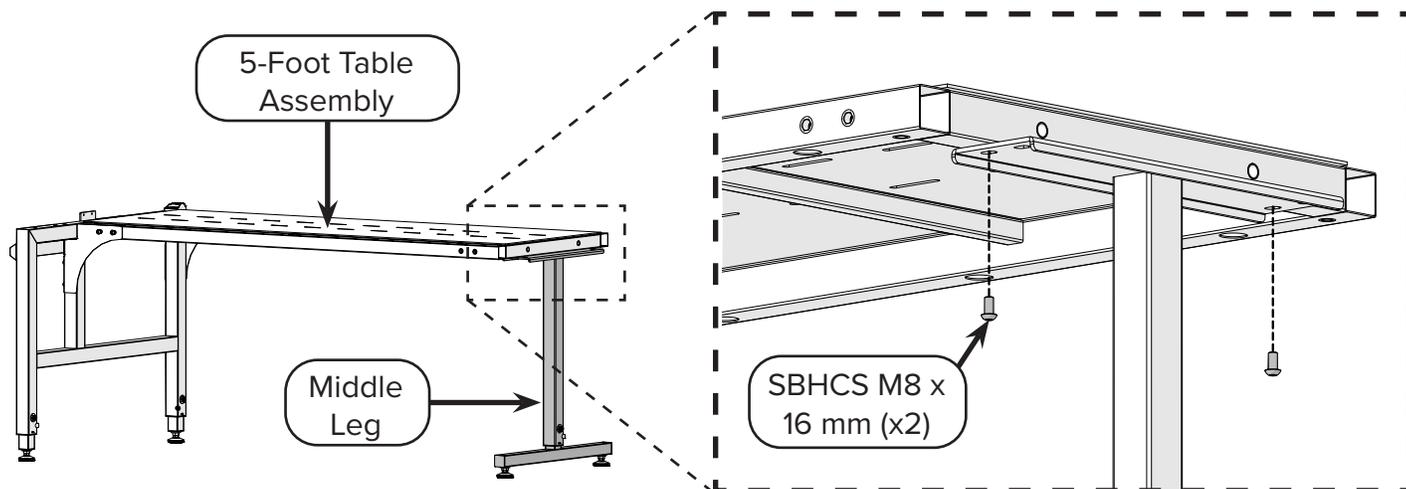
Next you're going to assemble the new "bones" of the frame, adding the middle legs and the 5-foot and 2-foot tables to the frame.

With help from a friend, take the following steps to assemble the frame table:

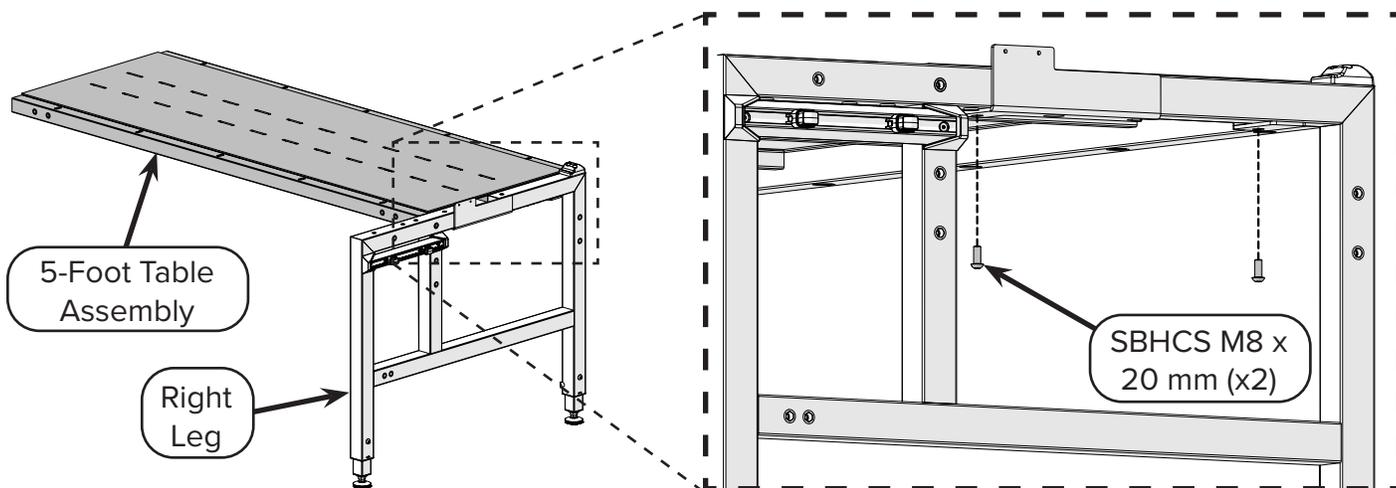
Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

Task 3 - Installing the Table (continued)

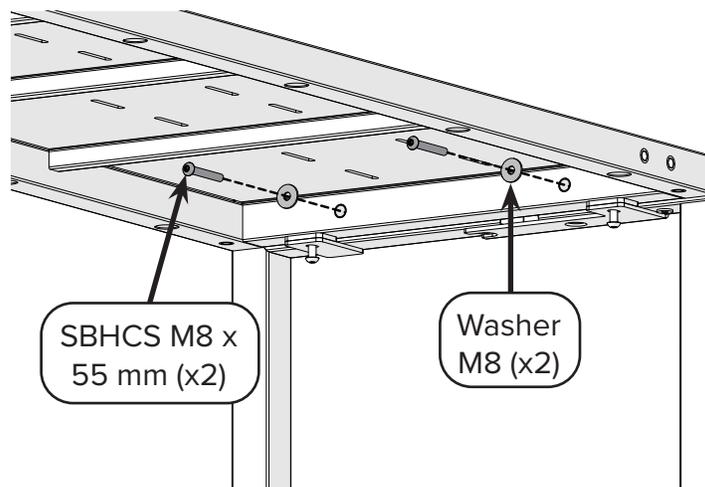
- 1 Loosely attach a **middle leg** to the end of the **5-foot table assembly** that is attached to the left leg with two **M8 x 16 mm SBHCS** and the 5 mm Allen wrench.



- 2 With help from a friend or a table, use the Allen wrench and two **M8 x 20 mm SBHCS** to loosely connect the second **5-foot table assembly** to the **right leg**.



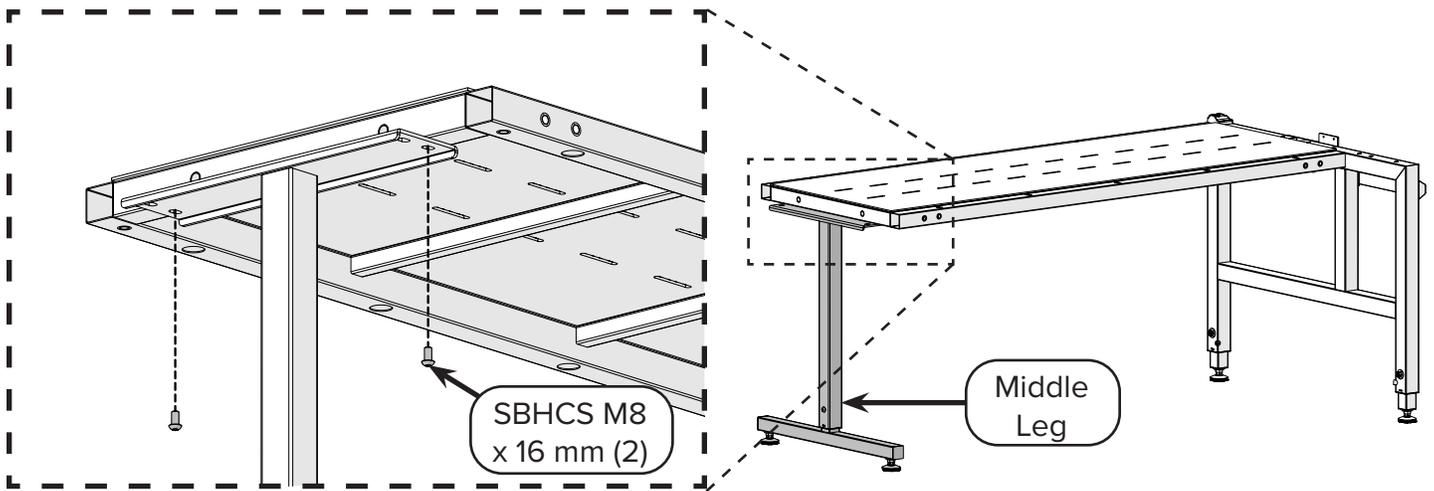
- 3 Loosely install two **M8 x 55 mm SBHCS** and two **M8 washers** to the underside of the table and the right leg with the Allen wrench.



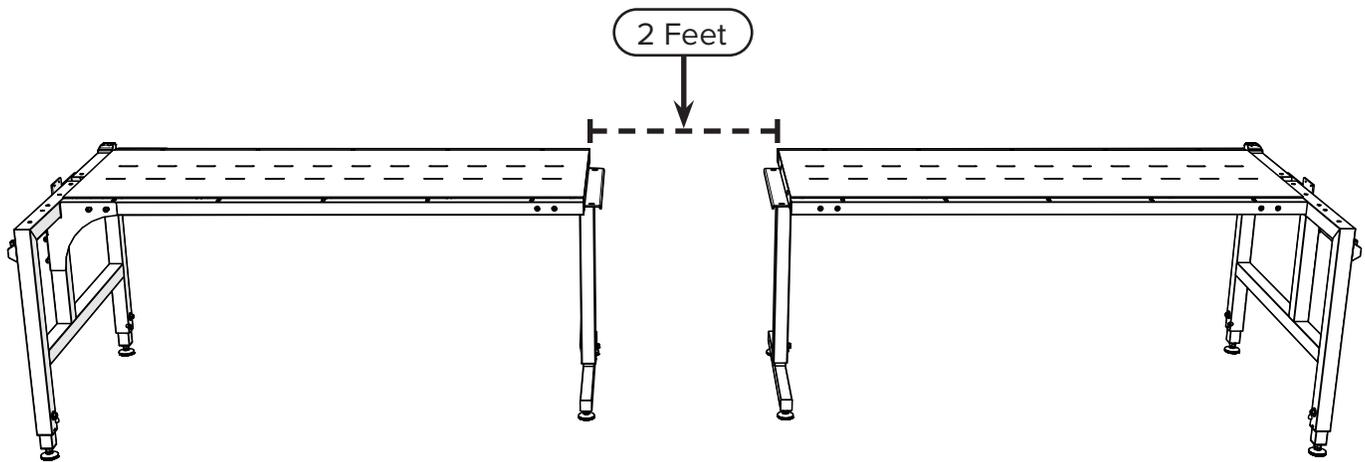
Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

Task 3 - Installing the Table (continued)

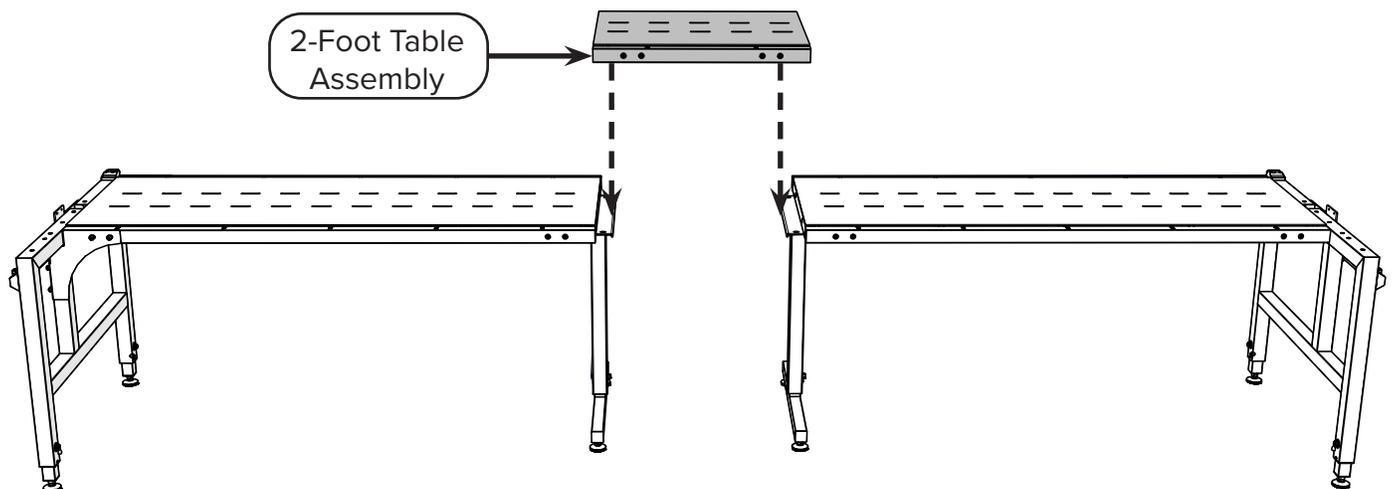
- 4 Loosely attach the other **middle leg** to the other end of the 5-foot table with two **M8 x 16 mm SBHCS** and the 5 mm Allen wrench.



- 5 Line up the two assembled tables so there is about **2 feet** of space between the middle legs.



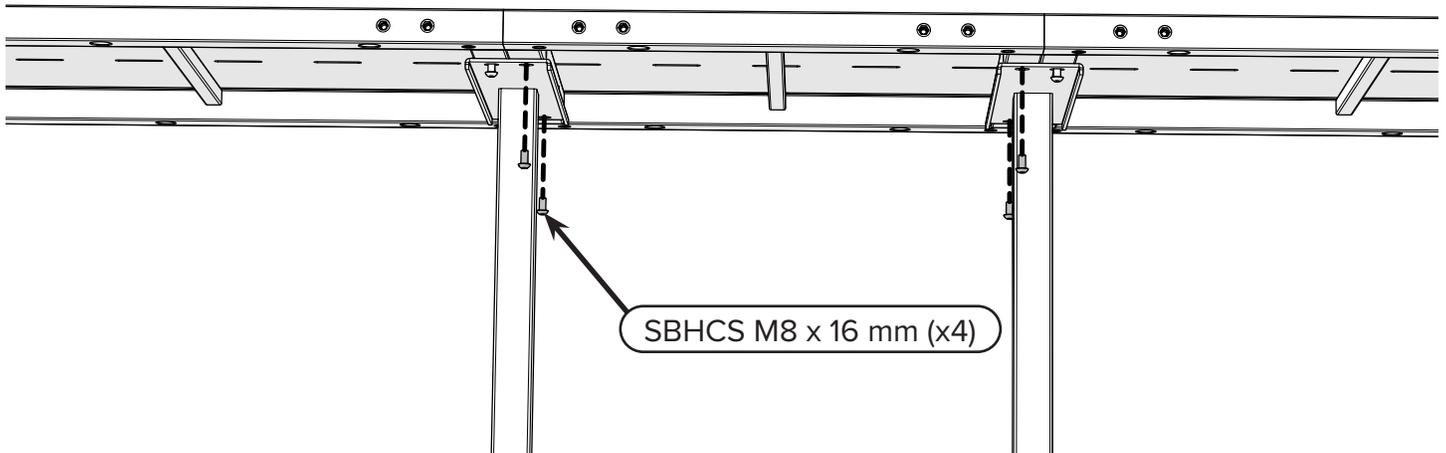
- 6 Place the **2-foot table assembly** onto the middle legs, between the two 5-foot table assemblies.



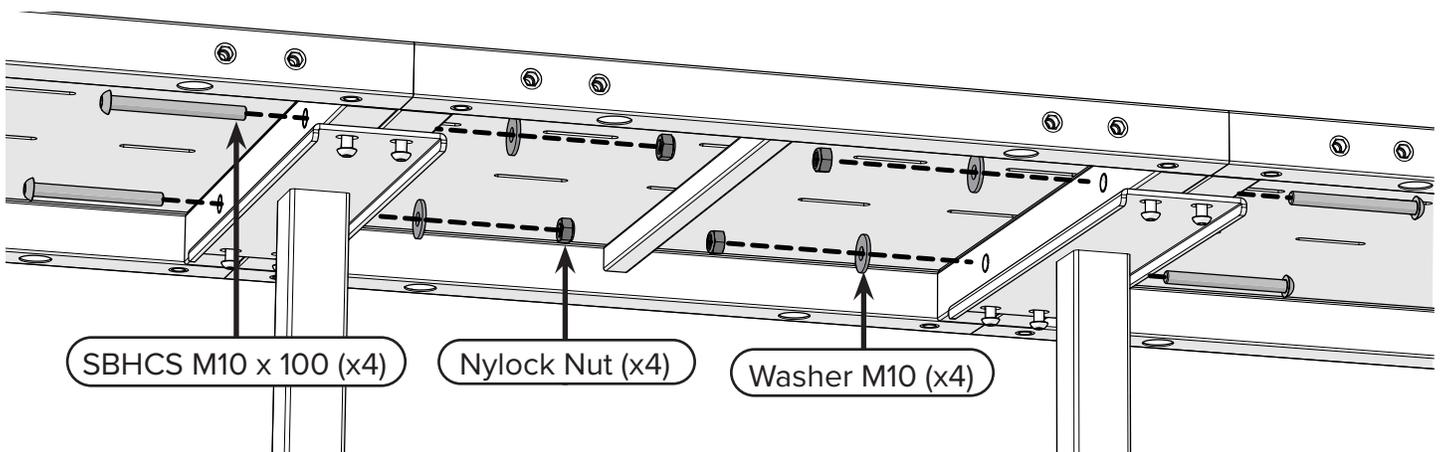
Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

Task 3 - Installing the Table (continued)

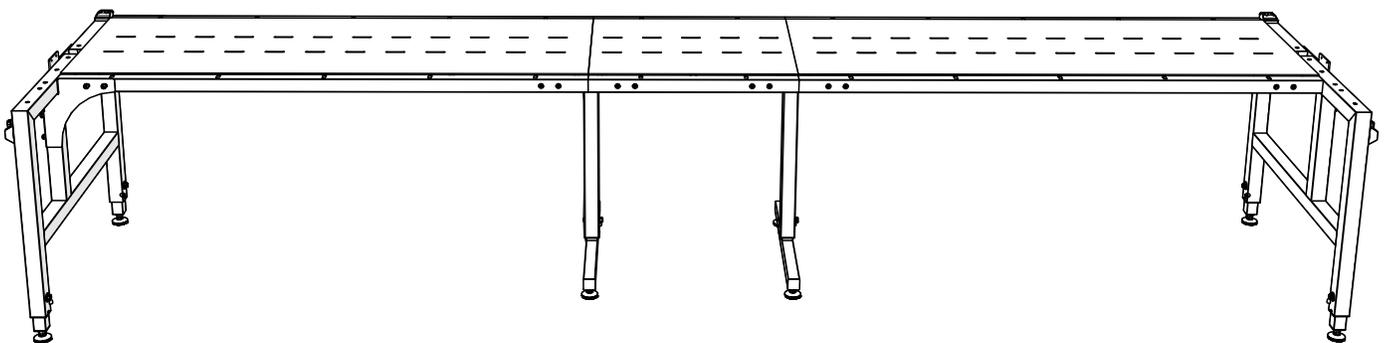
- 7 With four **M8 x 16 mm SBHCS** and the 5 mm Allen wrench, *loosely* attach the 2-foot table assembly to the middle legs.



- 8 Attach the 5-foot tables to the 2-foot table with four **M10 x 100 mm SBHCS**, four **M10 washers**, and four **M10 nylock nuts**. *Loosely* connect these with the 6 mm Allen wrench and the 17 mm open-end wrench.



- 9 **Task Result:** The table sections have been *loosely* installed onto the frame legs. All the screws holding the tables on the legs need to be loose, including the ones you loosened when you took apart the hoop frame. You'll tighten all these screws at the end of the next task.

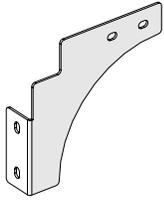


Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

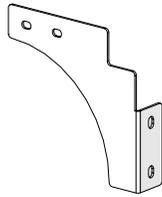
Task 4 - Attaching the Braces

Parts & Tools Needed

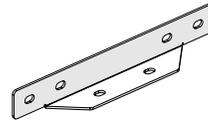
Corner Brace A
(with orig frame)



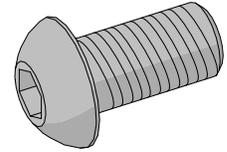
Corner Brace B
(with orig frame)



Middle Table Brace
(x4) (Box 6 & 7)



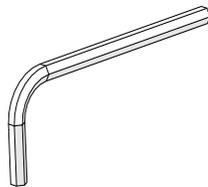
SBHCS M8 x 16 mm
(x32) (Box 6 & 7,
Hardware
& with orig frame)



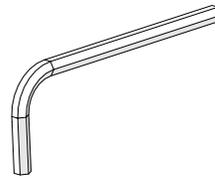
Frame Reference
Card Hook (Box 4,
Hardware)



Allen Wrench 6 mm



Allen Wrench 5 mm



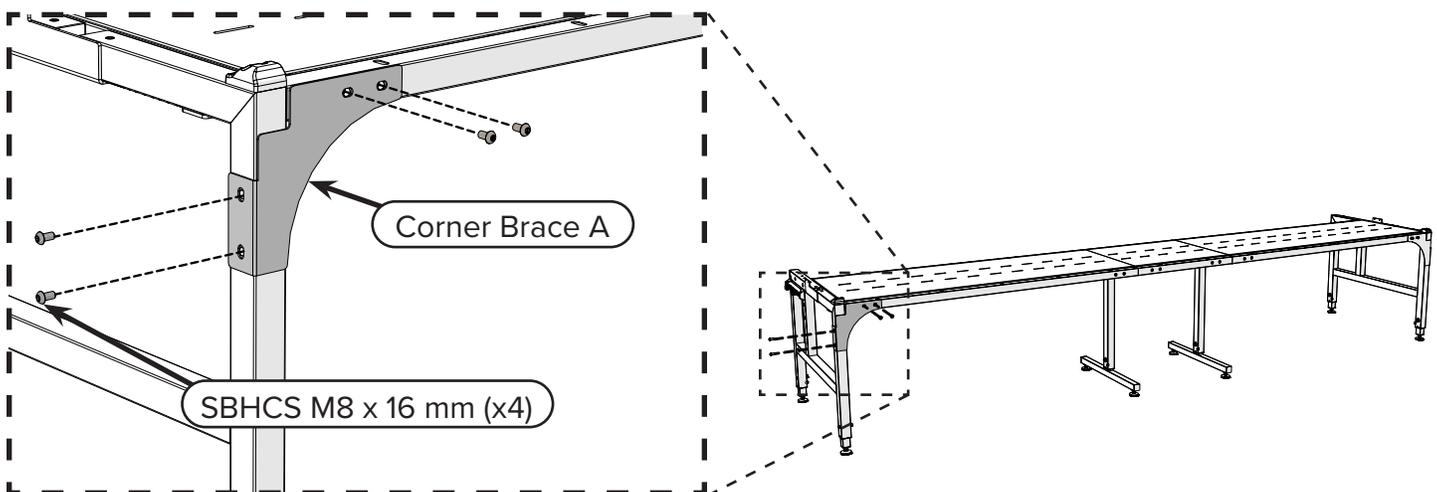
Open-End Wrench 14
mm and 17 mm



Instructions

The braces help support the table and make the frame sturdier. Take the following steps to attach and tighten the braces to the frame:

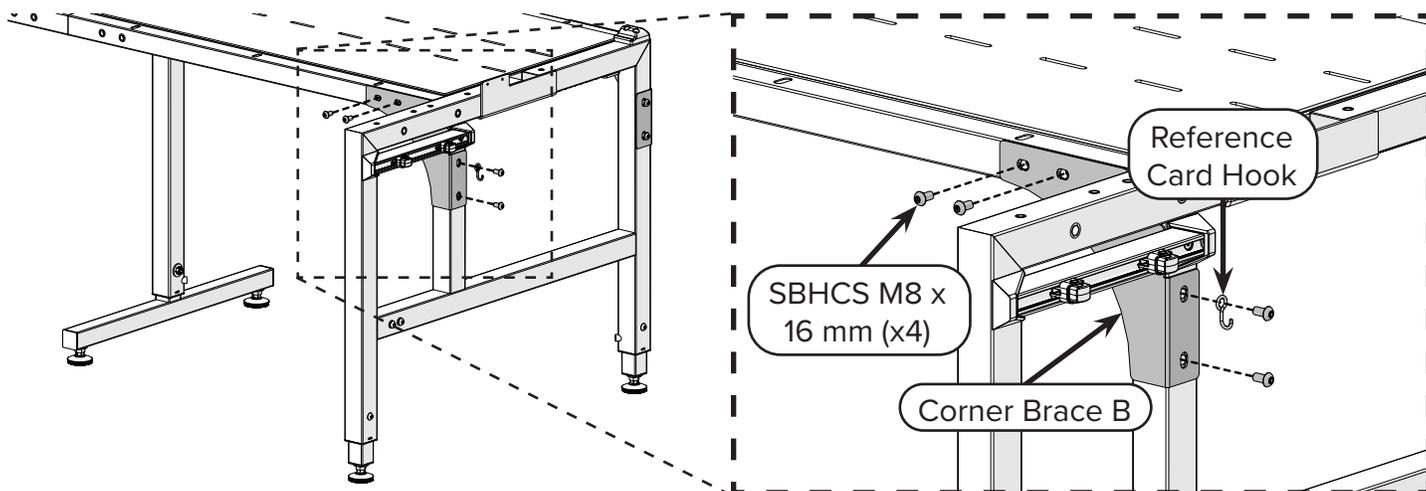
- 1 Loosely attach **corner brace A** to the back-right corner of the frame using four **M8 x 16 mm SBHCS** and the 5 mm Allen wrench. Do not tighten the screws yet.



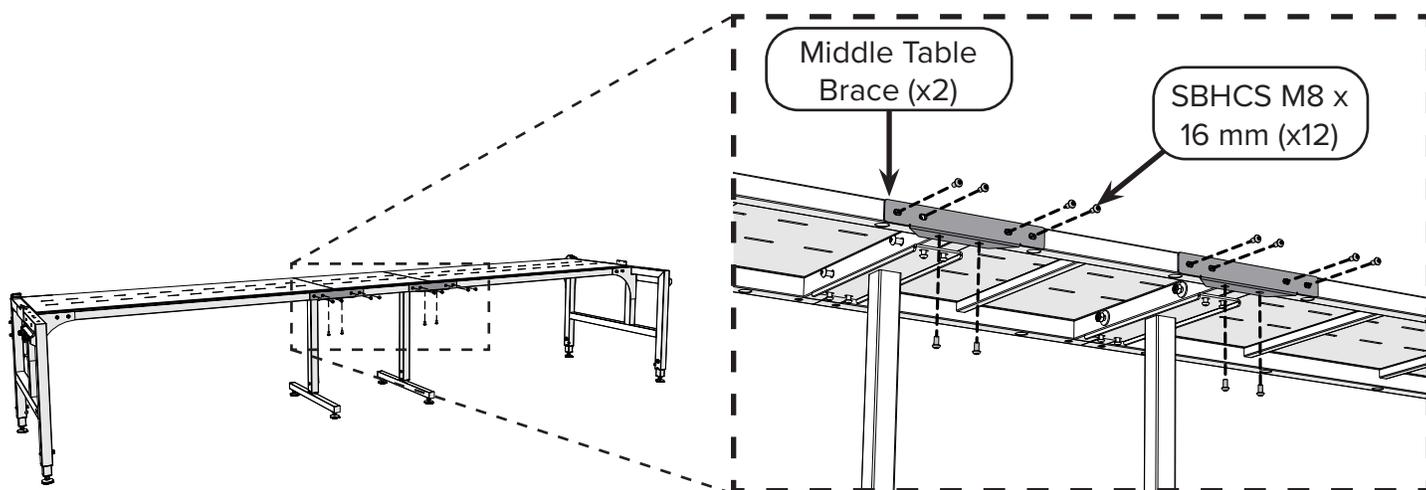
Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

Task 4 - Attaching the Braces (continued)

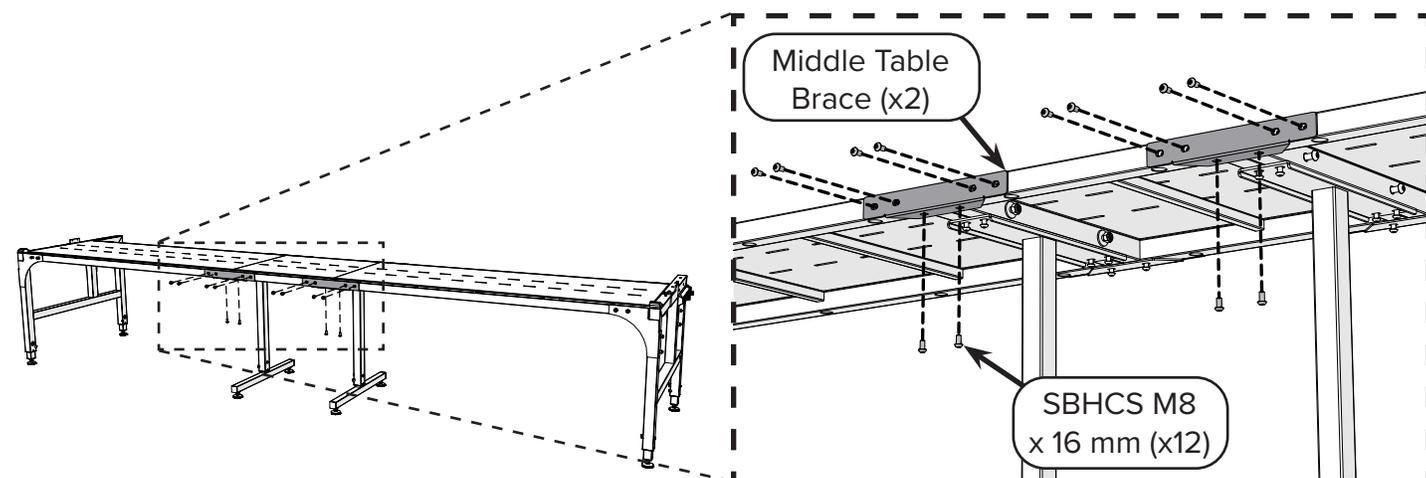
- 2 Loosely attach **corner brace B** and the **reference card hook** to the front-right corner of the frame using four **M8 x 16 mm SBHCS** and the Allen wrench. Do not tighten the screws yet.



- 3 Attach two **middle table braces** loosely to the front of the table, where the 5-foot and 2-foot tables meet. Use twelve **M8 x 16 mm SBHCS** and the Allen wrench. Don't tighten the screws yet.



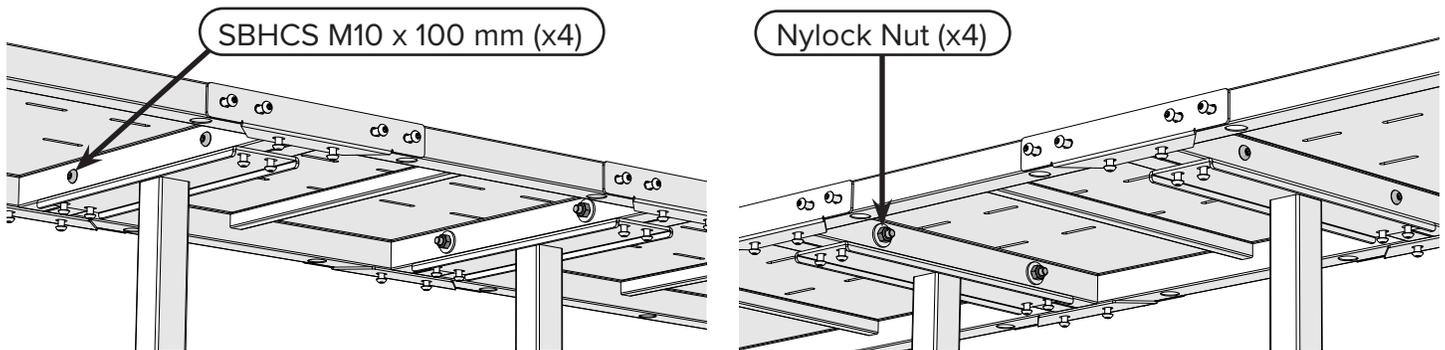
- 4 Attach two **middle table braces** loosely to the back of the frame, where the 5-foot and 2-foot tables meet. Use twelve **M8 x 16 mm SBHCS** and the Allen wrench. Don't tighten the screws yet.



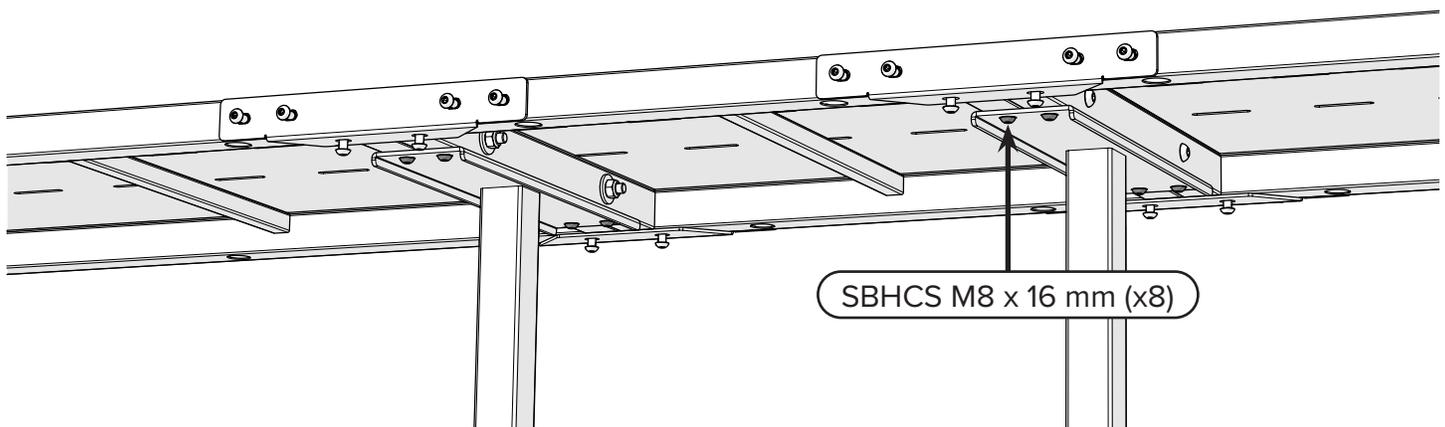
Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

Task 4 - Attaching the Braces (continued)

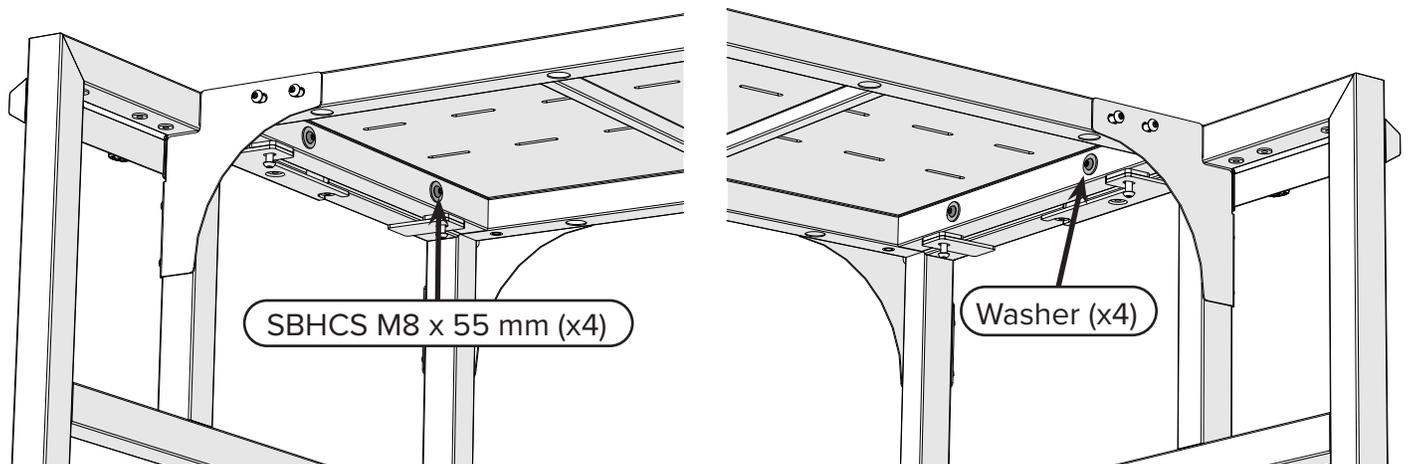
- 5 With the 17 mm open-end wrench and the 6 mm Allen wrench, tighten the four **M10 x 100 mm SBHCS** and four **M10 nylock nuts** that you left loose. These items are located just above the middle legs, where the 5-foot tables meet the 2-foot table.



- 6 With the 5 mm Allen wrench, tighten the eight **M8 x 16 mm SBHCS** you left loose on the middle legs.



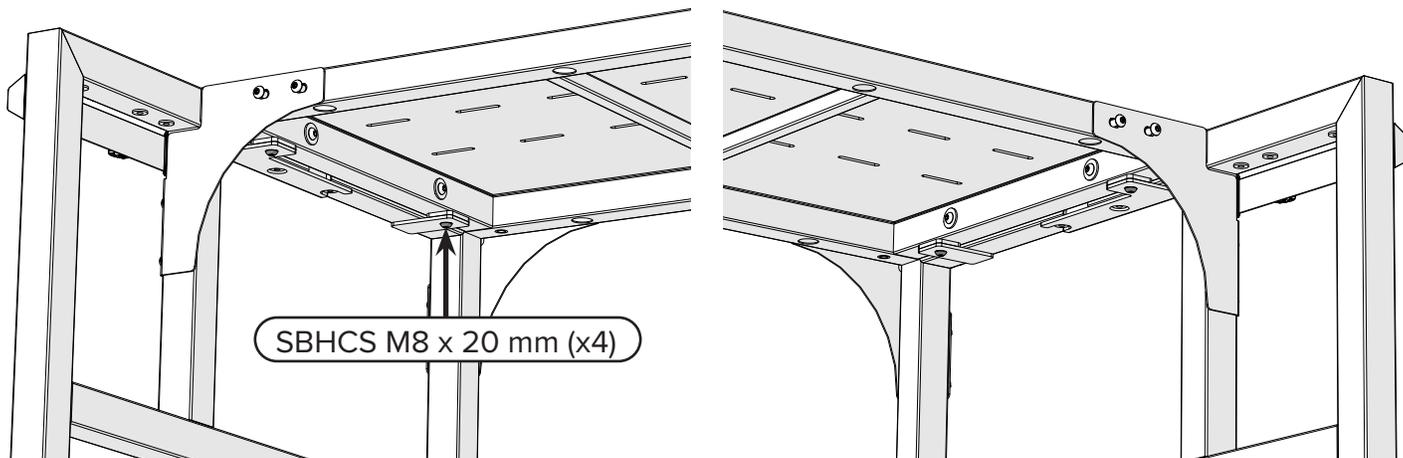
- 7 With the Allen wrench, tighten the two **M8 x 55 mm SBHCS** you left loose on the left and right sides of the tables (they have **washers** with them).



Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

Task 4 - Attaching the Braces (continued)

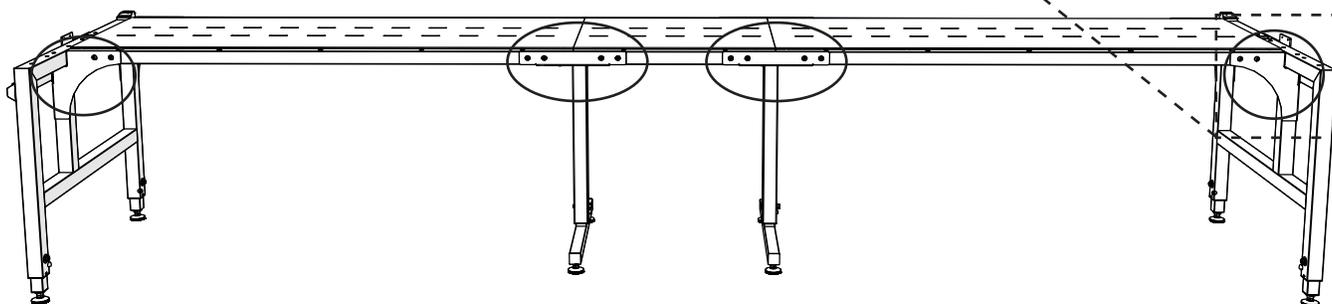
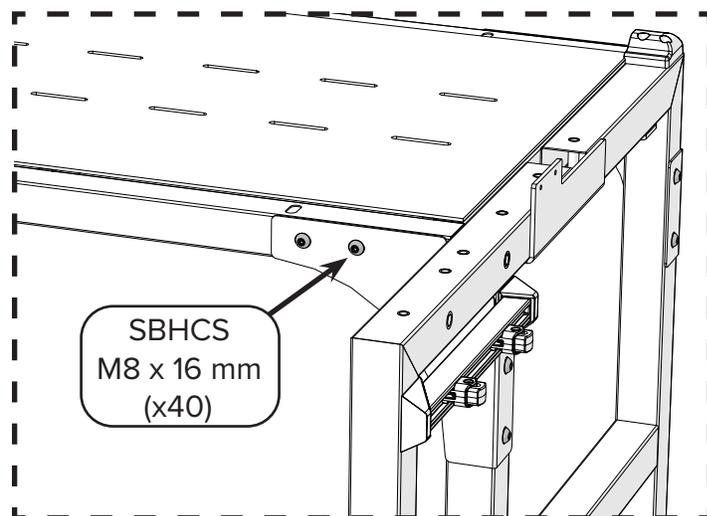
- 8 With the Allen wrench, tighten the two **M8 x 20 mm SBHCS** you left loose under the tables on the left and right legs.



- 9 Use the Allen wrench to tighten all forty **M8 x 16 mm SBHCS** used to attach the braces.

Note: There are eight braces to tighten:

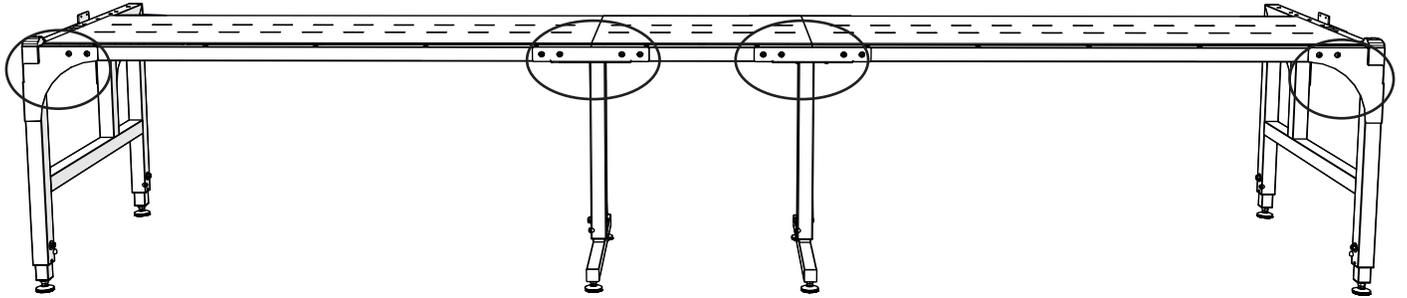
- | | |
|---------------------------------|--|
| • Back-right corner (4 screws) | • Front-right middle (6 screws) |
| • Back-right middle (6 screws) | • Front-left middle (6 screws) |
| • Back-left middle (6 screws) | • Front-left corner (4 screws) |
| • Back-left corner (4 screws) | Total = 40 screws. |
| • Front-right corner (4 screws) | These locations are circled in the two images below. |



Front of Frame

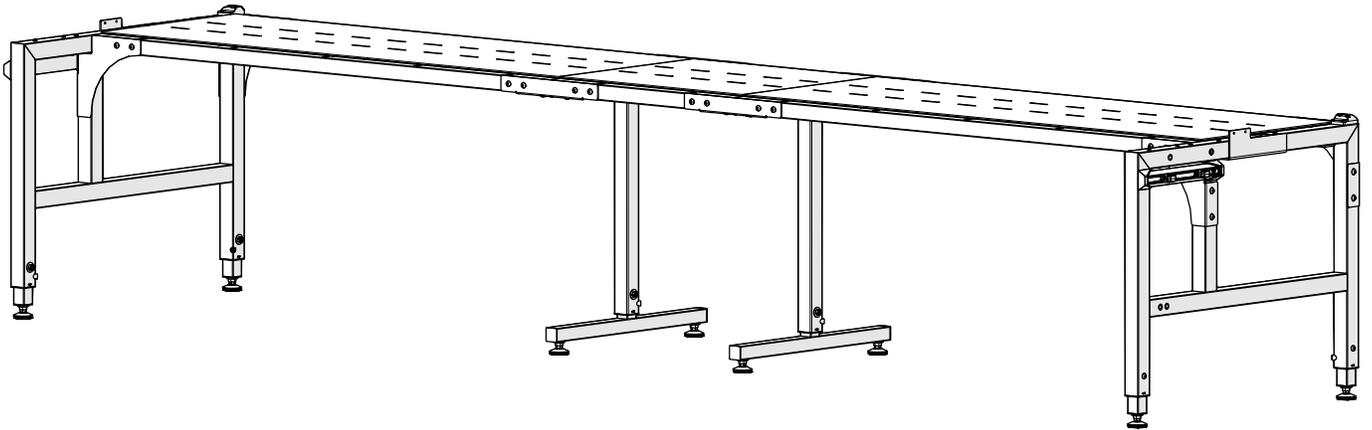
Completing the Hoop Frame to 12-Foot Elite-Frame Upgrade

Task 4 - Attaching the Braces (continued)



Back of Frame

10 **Task Result:** The braces are all attached and the frame is sturdy.



Congratulations! You have upgraded to the 12-foot Evolution Elite-Frame.

Now, use the instructions in the 12-Foot Evolution Elite-Frame manual that came with your upgrade kit (in box 7) to fully assemble your upgraded frame. Start with Part One, Task 5, where you'll be installing the take-up rail towers.

From this point on, the assembly process is the same as if you'd purchased the 12-Foot Elite-Frame from the start. However, pay attention to these small changes:

- Sometimes the instructions in the Evolution Elite-Frame manual will indicate that the parts or tools to use are in boxes 1 or 2. For you, replace that with (*with orig frame*) as you will be using the pieces that came with your hoop frame instead. If the Elite-Frame instructions direct you to use items from boxes 4, 6 or 7, do so, as those are the upgraded versions.
- When you are installing the tracks (task 7), pay attention to the following:
 - Skip the step to shift the end cap to the right, as you have already done so.
 - Make sure your channel lock is up and out of the way so that your bottom carriage can move freely across the frame while you align the tracks. In the Evolution Elite-Frame instructions, it is assumed that you haven't installed the channel lock yet, but since you are upgrading, your channel lock is already installed.
- Skip installing the channel locks, as you have already done so.
- Make sure you put your machine back on your frame before you install the rails. The Elite-Frame instructions tell you to do that during channel lock installation, which you skipped.
- When you are instructed to assemble your hand wheel (task 12), you can skip that step, as your hand wheel is already put together. Make sure you still follow the step to attach the hand wheel to the end of the take-up rail.

Make sure you keep following the instructions in the Evolution Elite-Frame manual for positioning the rails correctly and leveling the frame.

Use Part Four of the Evolution Elite-Frame instruction manual to learn about your new frame, including putting your quilt on the frame.

Best of luck on your quilting journey!

Note: If your original frame is the Evolution Hoop-Frame, then these instructions don't apply to you. Go to "Taking Apart the Hoop Frame" on page 1 for the first set of instructions you need.

Preparing to Upgrade An Elite-Frame

If you are upgrading from an 8-Foot Evolution Elite-Frame to a 10-Foot Elite-Frame or upgrading from a 10-Foot Evolution Elite-Frame to a 12-Foot Elite-Frame, first you must partially take apart your original frame. You will use many of the parts again when you set up the larger Elite-Frame, but some of the parts from your original frame will not be needed again.

Note: Unless these instructions specifically tell you to save a part, you can discard or store any parts that you remove from your original frame.

Note: You will need some of the tools that came with your original frame. These tools are noted the first time they appear in the list of parts and tools for tasks with the message (*with orig frame*).

Note: The images in this section show the 10-Foot frame, unless the section specifically applies to the 8-Foot frame only. However, the processes are the same regardless of the size of your frame.

Note: If you have purchased the Evolution frame Idler and Batting Rail accessory, then use the parts that came with the accessory to length the additional rail to work with your upgraded frame.

Task 1 - Removing All Quilting Components.....	83
Task 2 - Preparing the Rails	84
Task 3 - Removing the Tracks	90
Task 4 - Adjusting the Braces & Legs	93
Adjusting the 8-Foot Frame	93
Adjusting the 10-Foot Frame.....	97

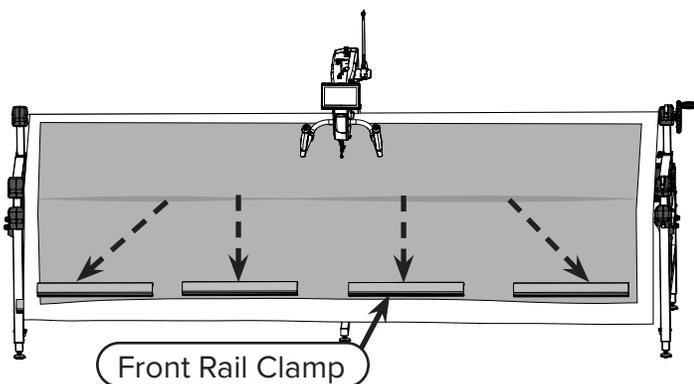
Task 1 - Removing All Quilting Components

Instructions

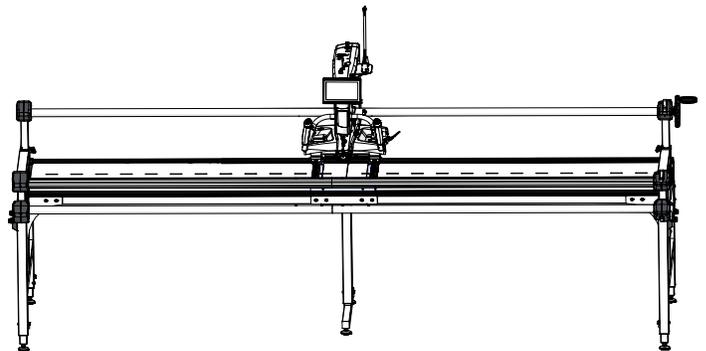
Before you can install the upgrades to the Evolution Elite-Frame, you must take apart some of the frame. Before you can do that, you need to remove all quilting components from the frame.

Take the following steps to remove the quilting materials from the frame:

- 1 If needed, remove the **front rail clamps**. Set them aside. You'll use them later.

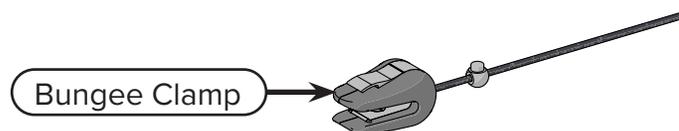


- 2 If you have a quilt on the frame, take it off and set it somewhere safe.



- 3 **Task Result:** All the quilting materials are removed from your frame.

Note: The images in this manual do not show the four **bungee clamps** on the frame, to help keep the focus on the parts you're working with. If you find the bungee clamps are in the way as you complete the upgrade, you can remove them temporarily, but otherwise, you can leave them on the frame to use when you complete the upgrade. See the Elite-Frame manual for more information on the bungee clamps.



Preparing to Upgrade An Elite-Frame

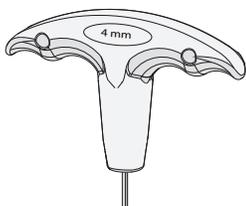
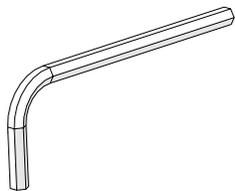
Task 2 - Preparing the Rails

Parts & Tools Needed

Allen Wrench 6 mm
(with orig frame)

T-handle Allen Wrench
4 mm (with orig frame)

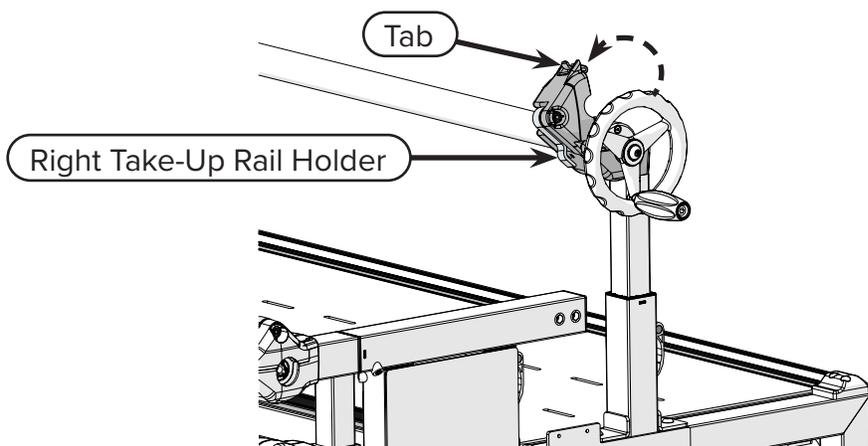
Allen Wrench 2.5 mm
(with orig frame)



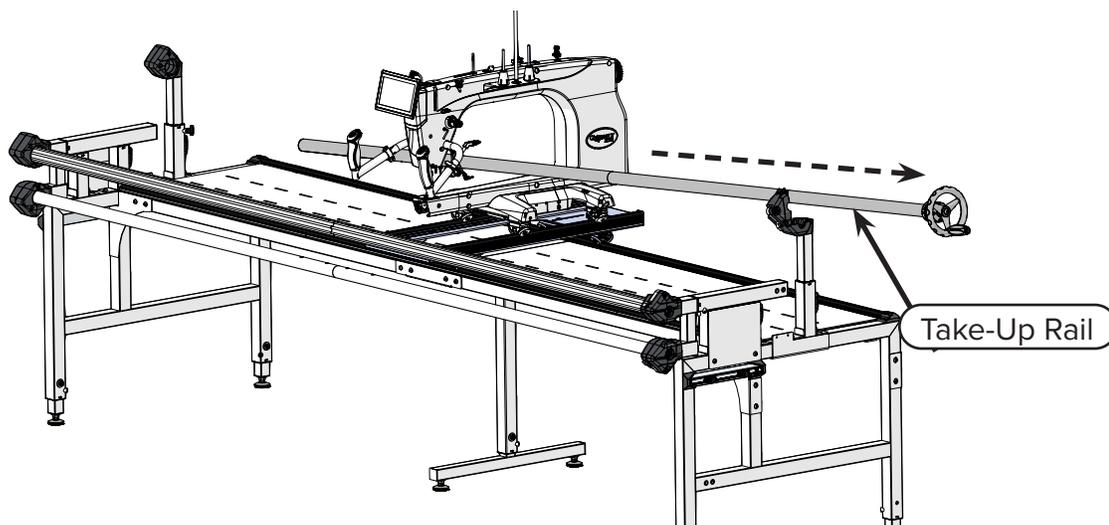
Instructions

The next thing to do is to remove the rails from the frame and prepare them for use in the upgrade. You also need to remove your machine and bottom carriage from the frame. Take the following steps to complete this task:

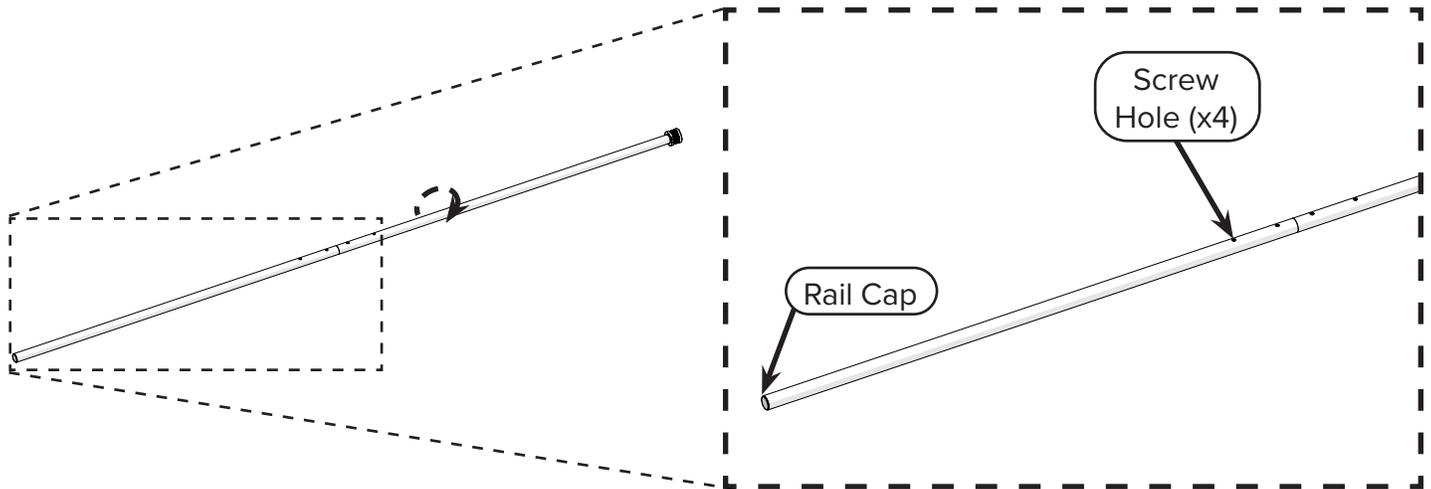
- 1 To prepare the take-up rail, do the following:
 - a Push on the **tab** to open the **right take-up rail holder**.



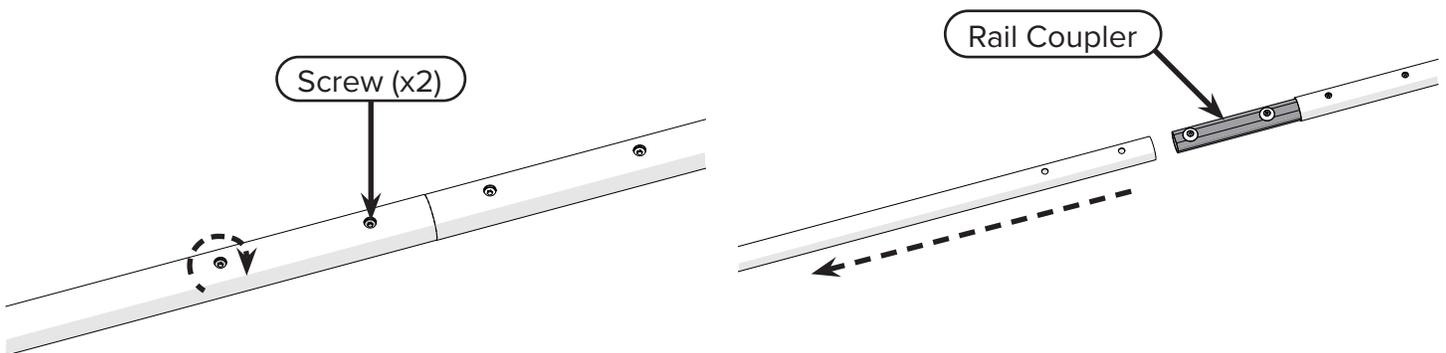
- b Lift the **take-up rail** out of the holders.



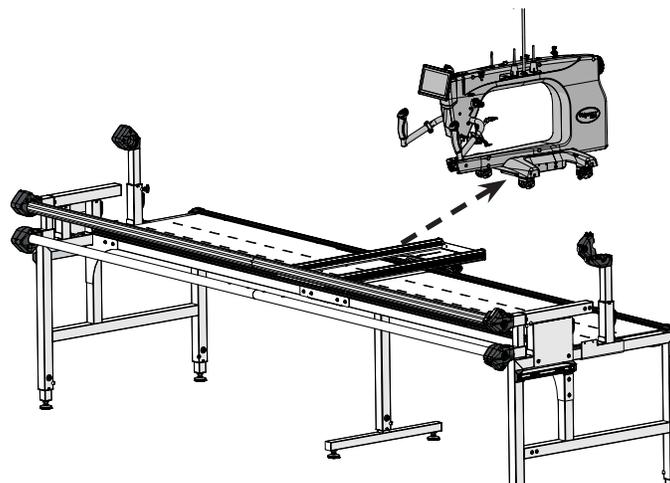
- c Turn the rail until the **screw holes** are visible, and locate the side of the rail with the **rail cap** on the end.



- d Using the 4 mm Allen wrench, rotate the two **screws** on that end of the rail *clockwise* until you can slide the rail off the **rail coupler**. Set both pieces of the rail aside. You'll use them later.



- 2 With help from a friend, remove your machine and top plate (if applicable) from the frame. Set your machine somewhere nearby, but out of the way.

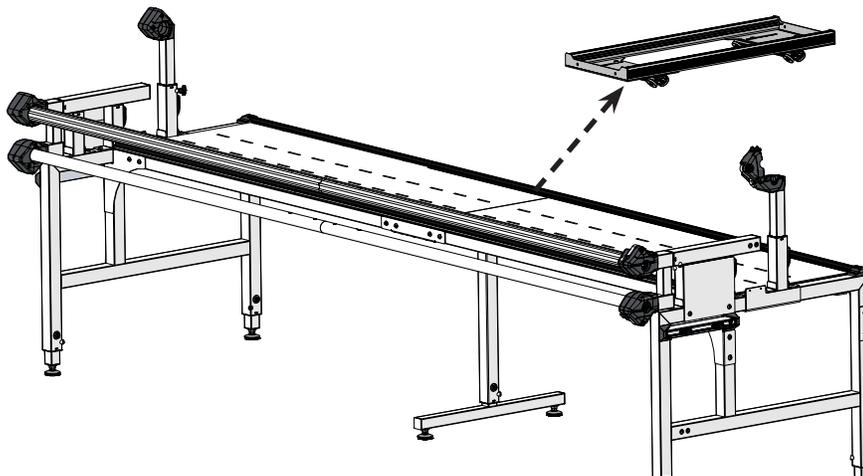


Note: Your machine might be too heavy to move by yourself. Get help from a friend for this step!

Preparing to Upgrade An Elite-Frame

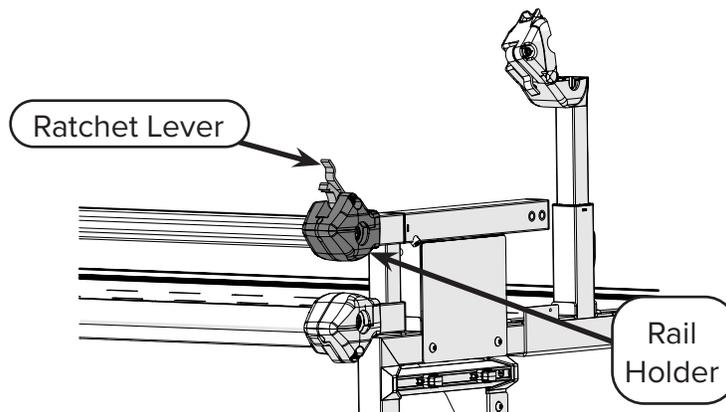
Task 2 - Preparing the Rails (continued)

- 3 Take the bottom carriage off the frame. Set it somewhere nearby, but out of the way.

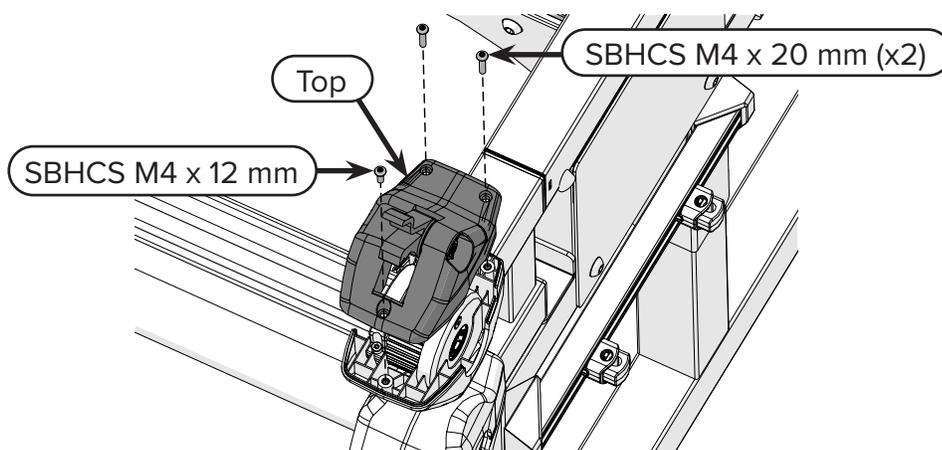


- 4 To prepare the quilt-backing rail for the upgrade, do the following:

- a Lift the **ratchet lever** on the upper side **rail holder** on the right of the frame. With the ratchet lever up, you have access to the screw underneath.



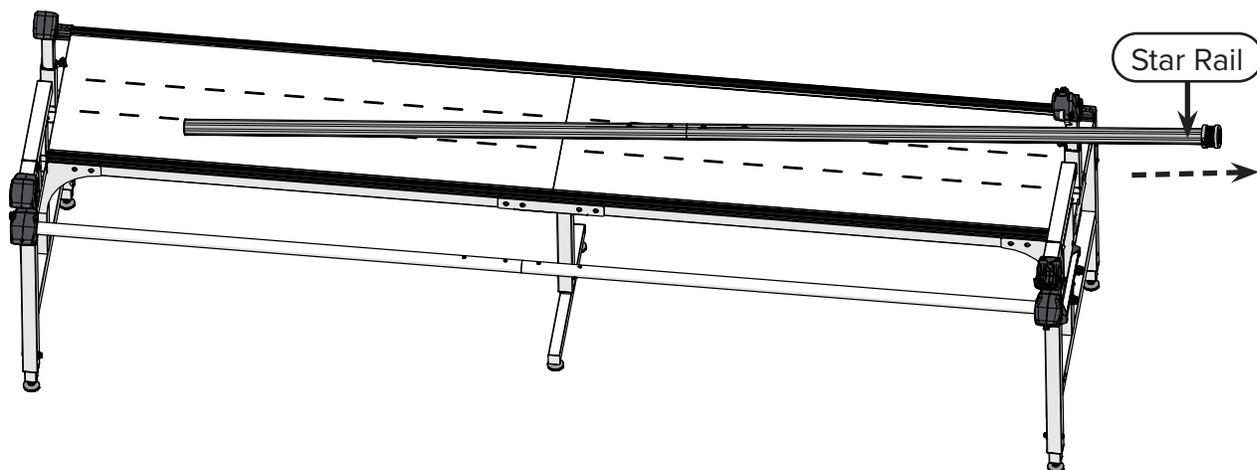
- b Use the 2.5 mm Allen wrench to remove the two **M4 x 20 mm SBHCS** and the **M4 x 12 mm SBHCS** on the top of the rail holder. Then lift the **top** away. Set the screws and the top aside. You'll use them later.



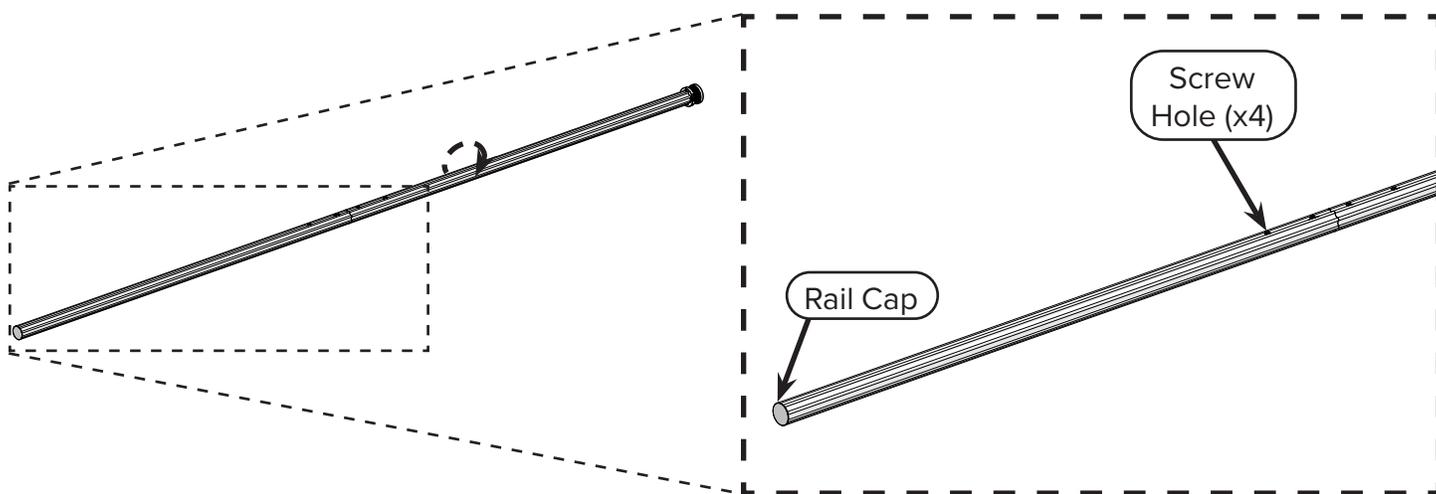
Preparing to Upgrade An Elite-Frame

Task 2 - Preparing the Rails (continued)

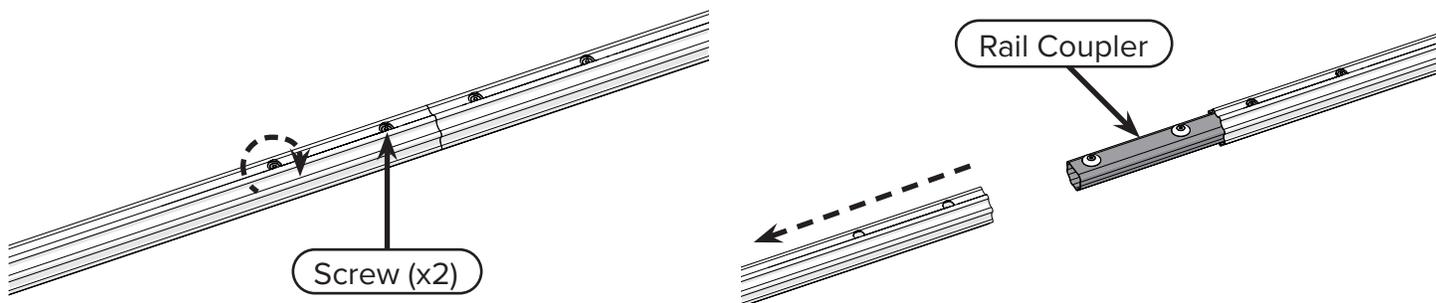
- c Slide the **star rail** out of the left and right rail holders.



- d Turn the rail until the **screw holes** are visible, and locate the side of the rail with the **rail cap** on the end.



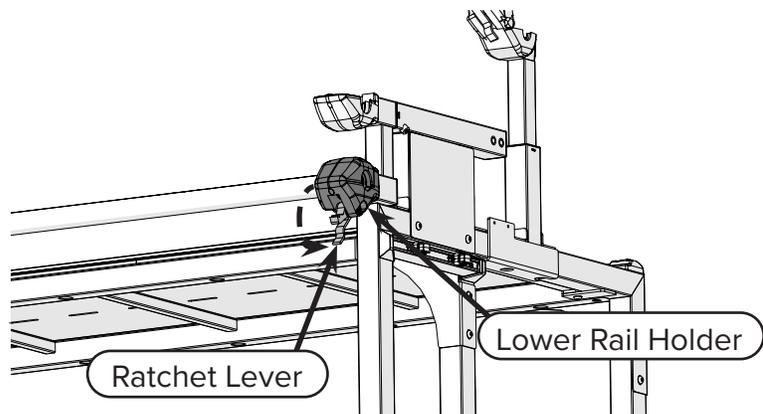
- e Using the 4 mm Allen wrench, rotate the two **screws** on that end of the rail *clockwise* until you can slide the rail off the **rail coupler**. Set both pieces of the rail aside. You'll use them later.



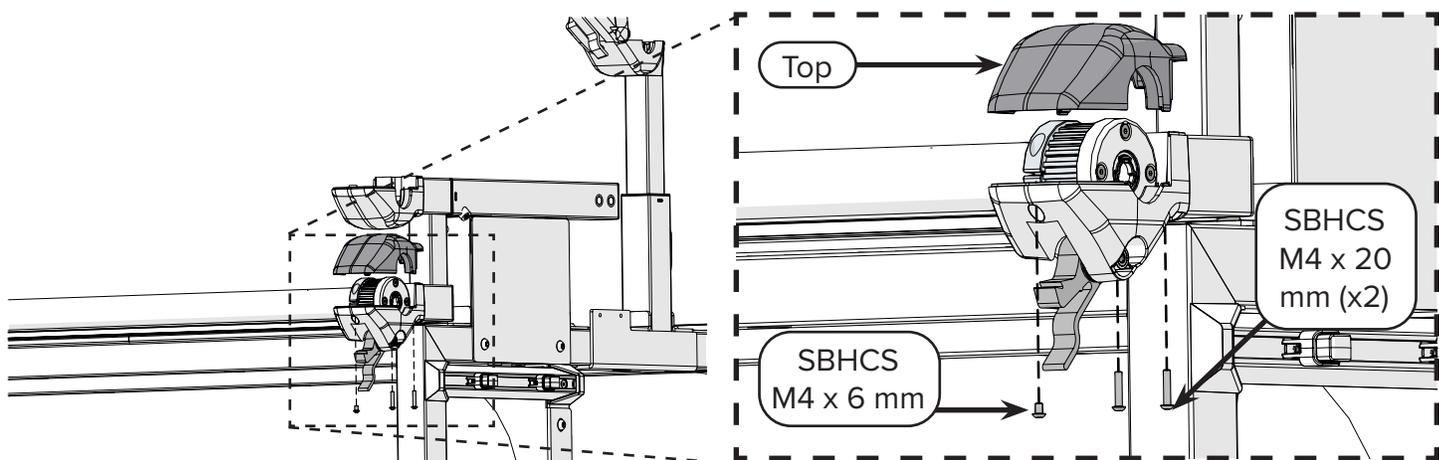
Preparing to Upgrade An Elite-Frame

Task 2 - Preparing the Rails (continued)

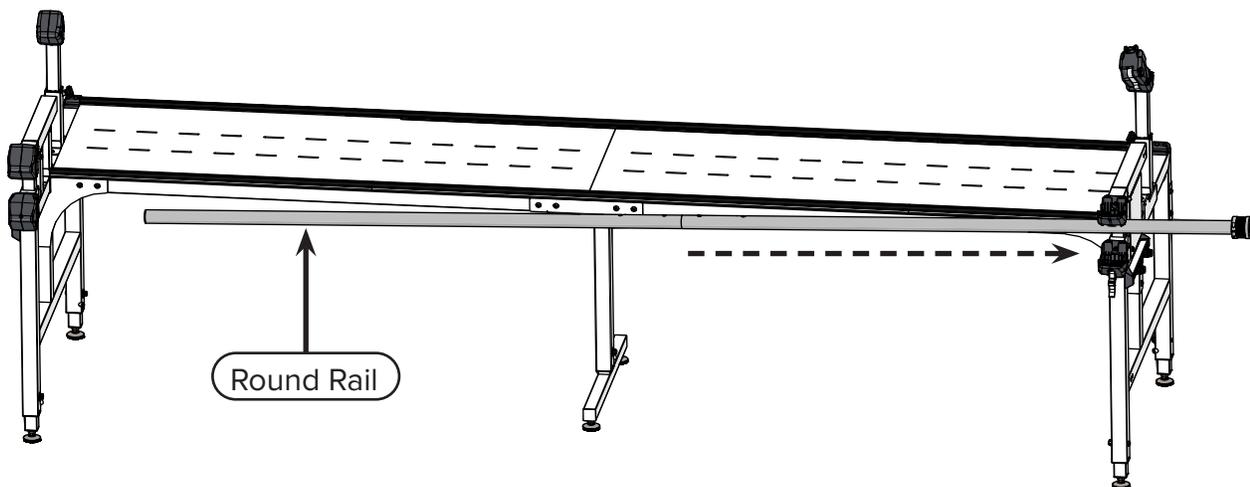
- 5 To prepare the quilt-top rail for the upgrade, do the following:
 - a Open the **ratchet lever** on the **lower rail holder** on the right side of the frame to access the screw underneath it.



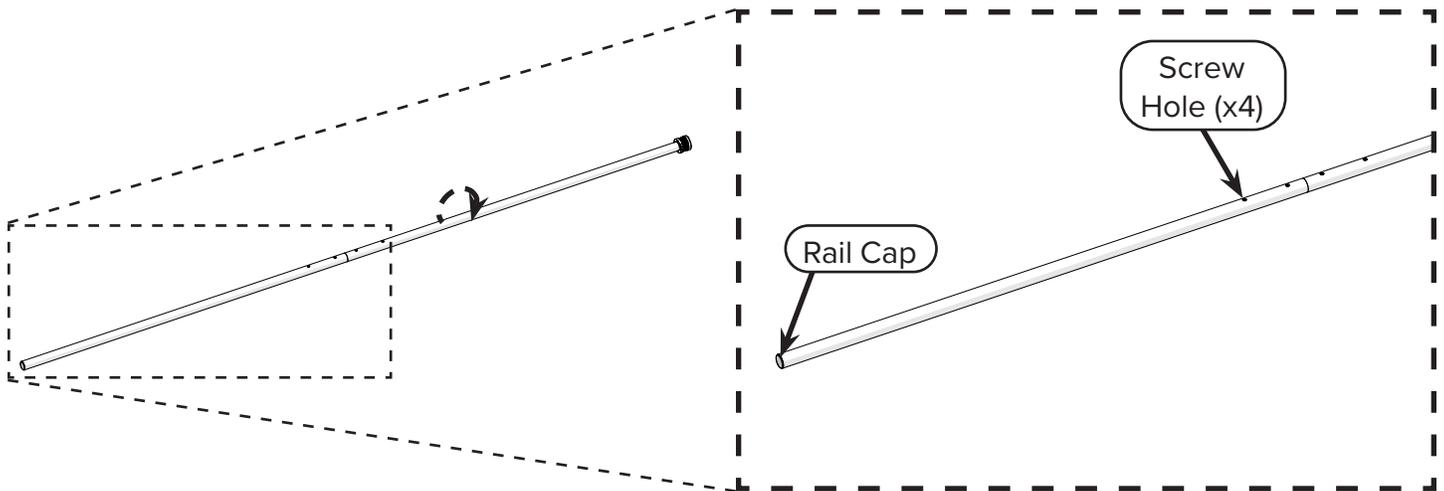
- b Use the 2.5 mm Allen wrench to remove the two **M4 x 20 mm SBHCS** and the **M4 x 6 mm SBHCS** on the bottom of the rail holder. Then lift the **top** away. Set the screws and the top aside. You'll use them later.



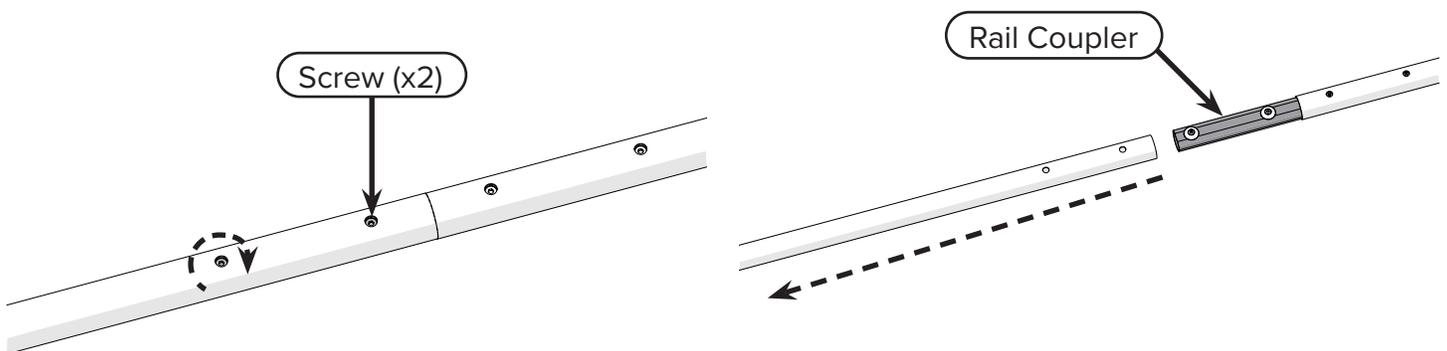
- c Slide the **round rail** out of the left and right rail holders.



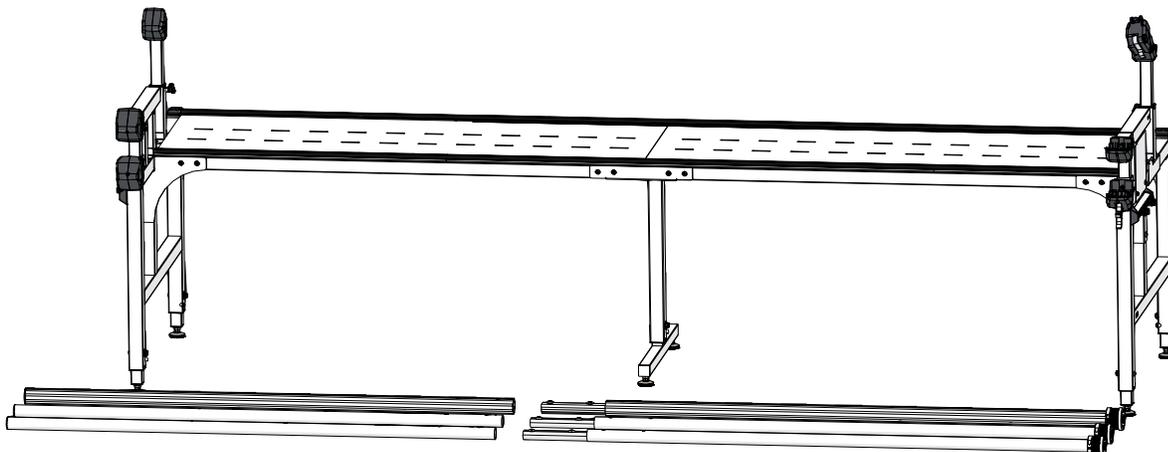
- d Turn the rail until the **screw holes** are visible, and locate the side of the rail with the **rail cap** on the end.



- e Using the 4 mm Allen wrench, rotate the two **screws** on that end of the rail *clockwise* until you can slide the rail off the **rail coupler**. Set both pieces of the rail aside. You'll use them later.



- 6 **Task Result:** Your machine and bottom carriage are removed from the frame to a safe place for the upgrade. Also, the rails are removed from the frame and prepared for the upgrade.

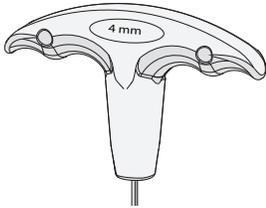


Preparing to Upgrade An Elite-Frame

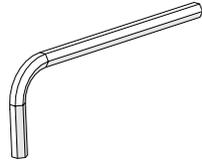
Task 3 - Removing the Tracks

Parts & Tools Needed

T-handle Allen Wrench
4 mm



Allen Wrench 3 mm
(with orig frame)

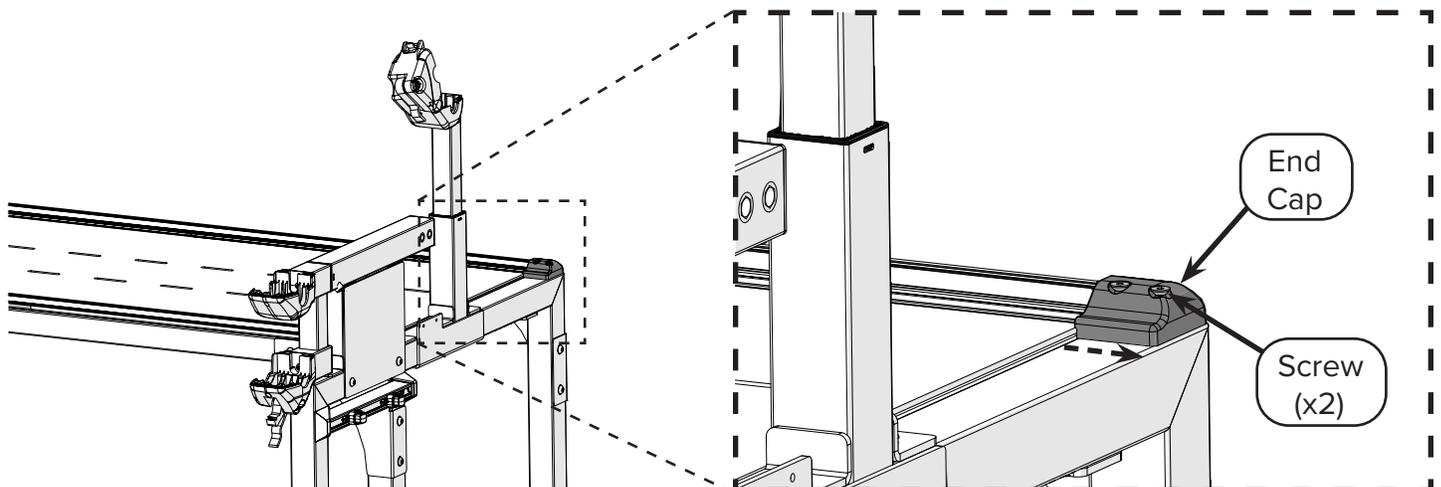


Instructions

As part of the upgrade, you are going to increase the length of the tracks. Therefore, you must remove the current tracks from the frame.

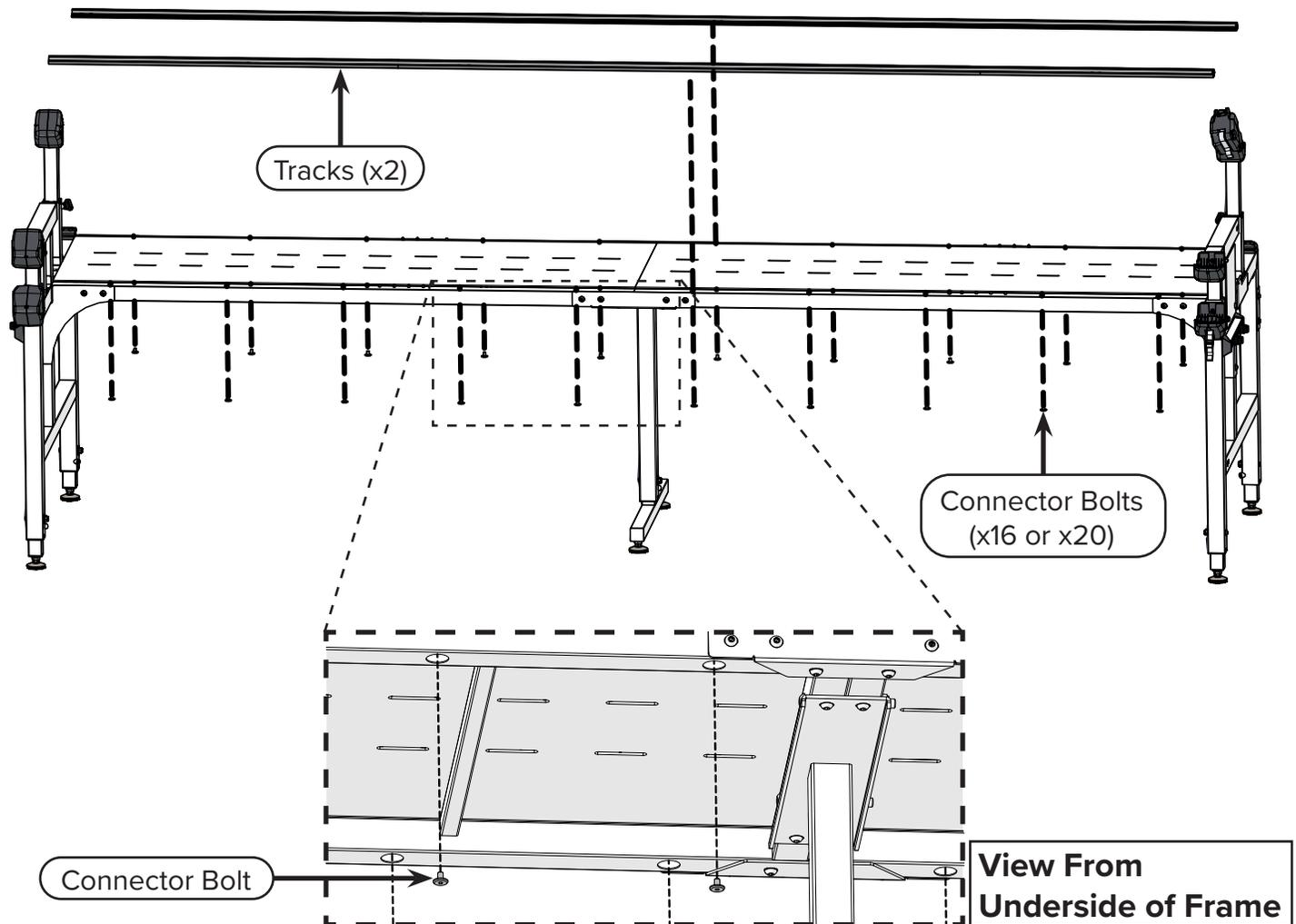
Take the following steps to remove the tracks:

- 1 On the right side of the frame, use the 3 mm Allen wrench to *loosen*, but not remove, the two **screws** on the track **end cap** and shift the end cap slightly to the right.

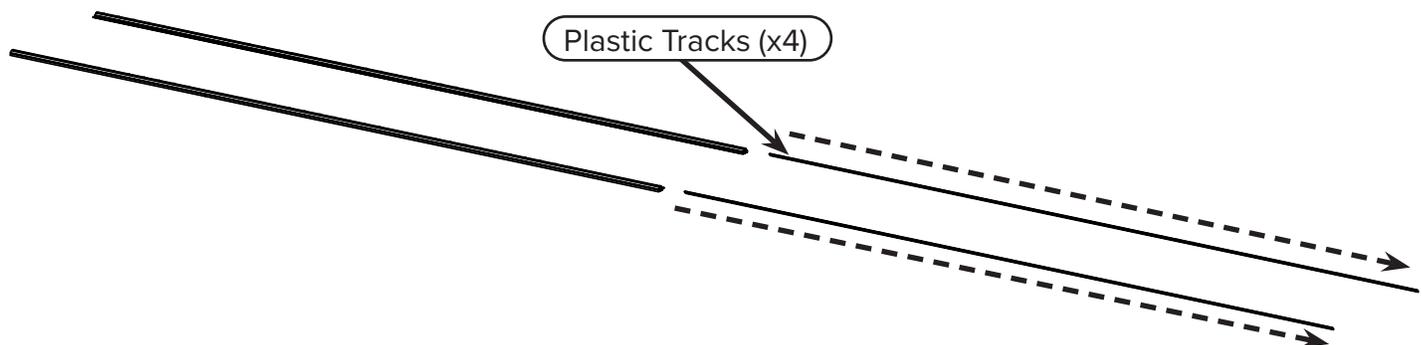


Task 3 - Removing the Tracks (continued)

- Remove the 16 (for the 8-Foot Elite-Frame) or 20 (for the 10-Foot Elite-Frame) **connector bolts** on the underside of the tracks assemblies with the 4 mm Allen wrench. The two 8-foot or 10-foot **tracks** are now separated from the table. Set the connector bolts aside. You'll use them later.



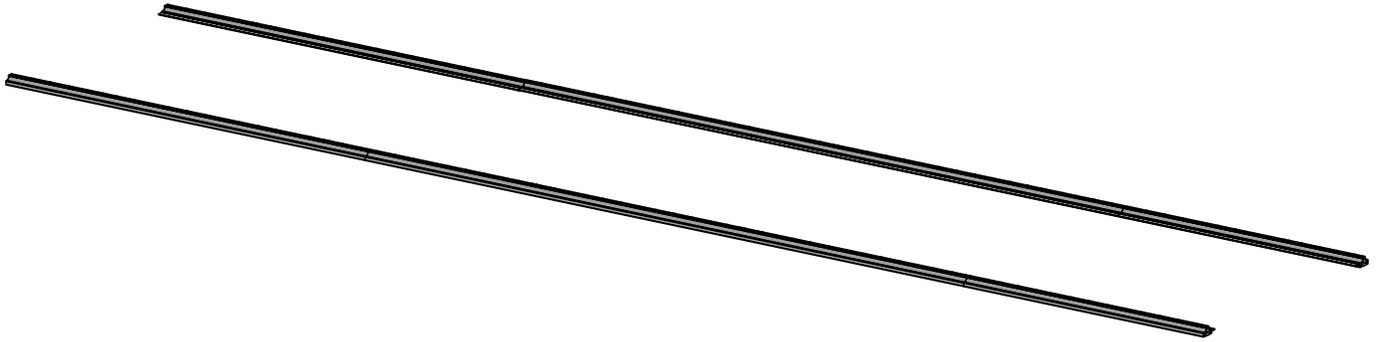
- Each of the tracks has **plastic tracks** installed in them. Slide all four plastic tracks out of the metal tracks. You can discard the plastic tracks, as they aren't needed again.



Preparing to Upgrade An Elite-Frame

Task 3 - Removing the Tracks (continued)

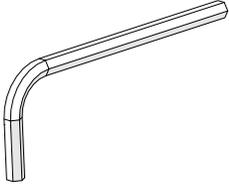
4 **Task Result:** The metal tracks have been removed from the frame.



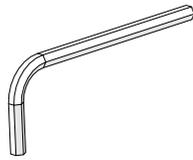
Task 4 - Adjusting the Braces & Legs

Parts & Tools Needed

Allen Wrench 6 mm



Allen Wrench 5 mm
(with orig frame)



Open-End Wrench
14 mm and 17 mm
(with orig frame)

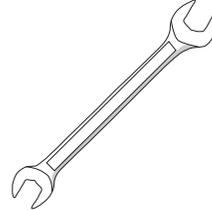
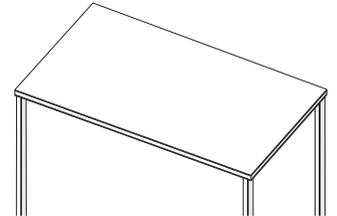


Table or Work Surface
(not included)



Instructions

The braces and legs need to be adjusted because your upgraded Elite-Frame needs to have another table assembly added to it. You'll need the braces and legs to be a bit wobbly while you complete the upgrade, so that you can make sure the new parts are squared up with the original parts when you're finished.

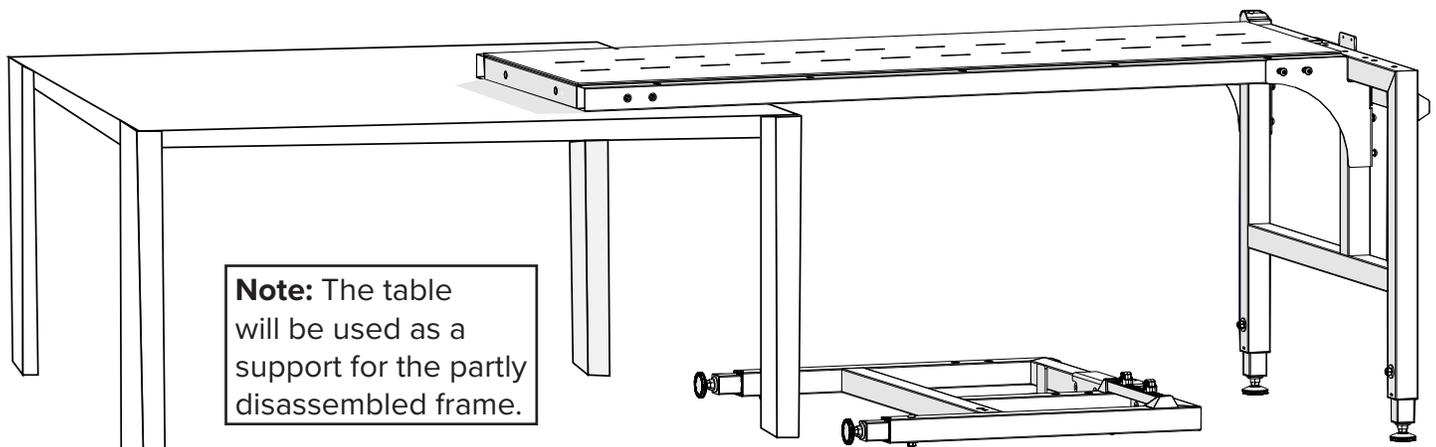
The process of adjusting the braces and legs is different for the 8-Foot and 10-Foot frames. Therefore, do one of the following to complete this task:

- If you have an 8-Foot frame, go to "Adjusting the 8-Foot Frame" on page 93.
- If you have a 10-Foot frame, go to "Adjusting the 10-Foot Frame" on page 97.

Adjusting the 8-Foot Frame

For the 8-Foot frame, you need to take the left leg off the frame, and also loosen the screws that keep the frame rigid.

Note: It's best to do this part of the preparation with a friend. If you are doing this by yourself, make sure to have a table or other raised, flat work surface nearby where you can rest the mostly disassembled frame. Even with a friend, you probably will still want the table nearby.

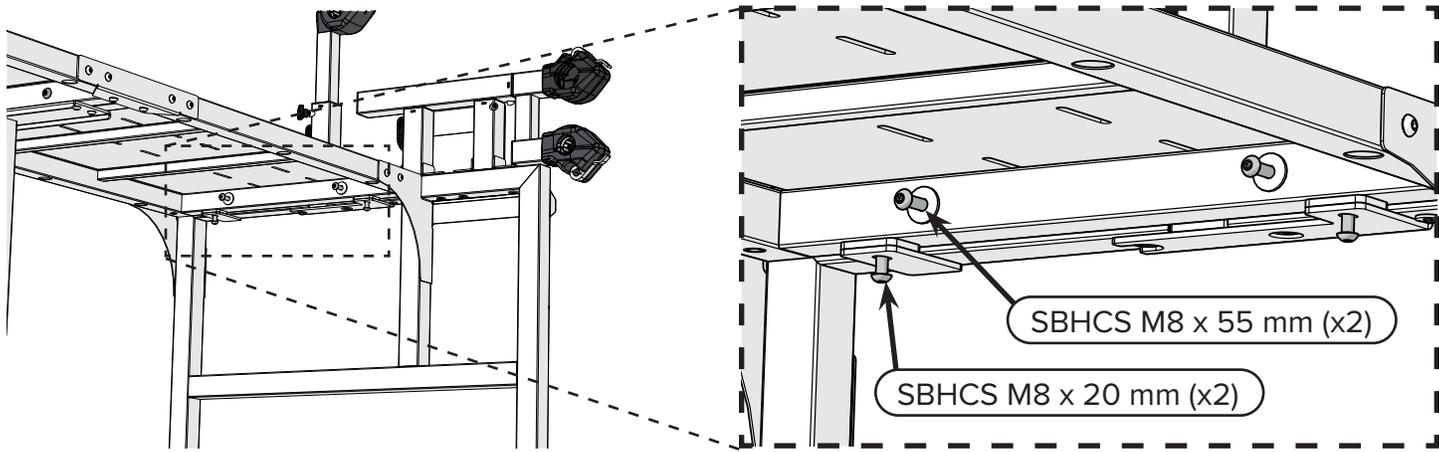


Do the following steps to adjust the braces and legs:

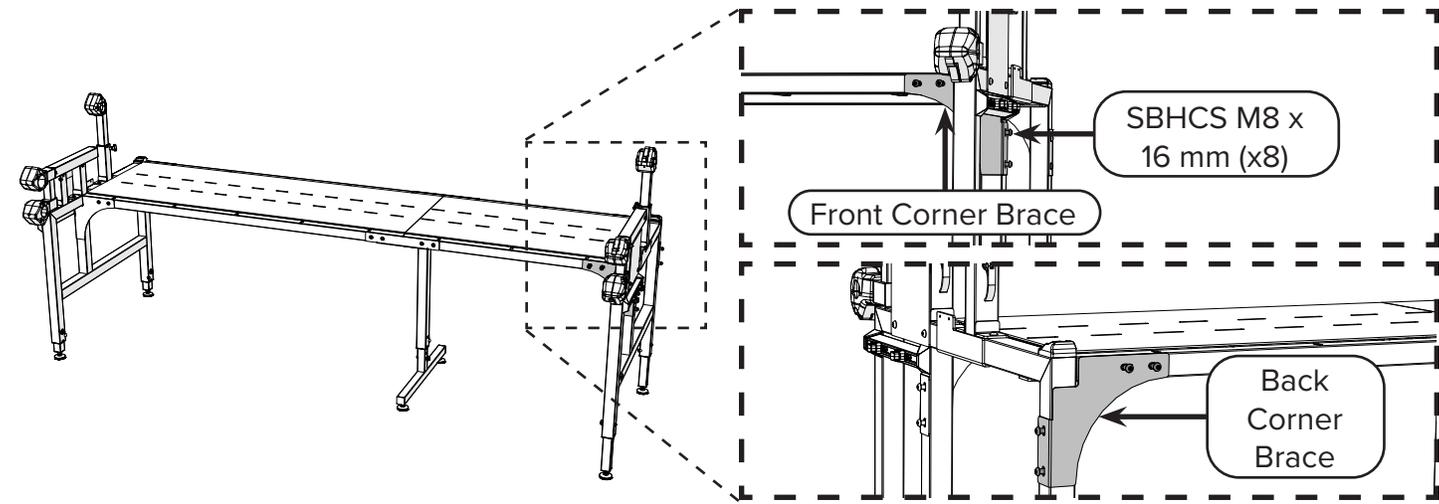
Preparing to Upgrade An Elite-Frame

Task 4 - Adjusting the Braces & Legs (continued)

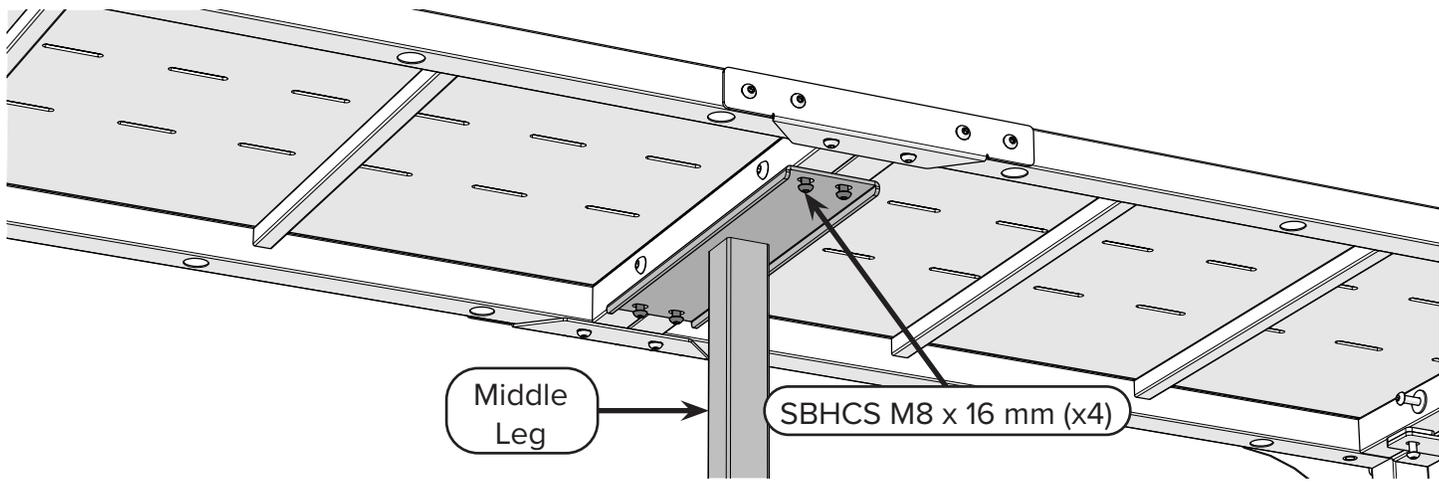
- 1 On the right side of the frame, use the 5 mm Allen wrench to *loosen*, but not remove, the two **M8 x 20 mm SBHCS** on the underside of the right leg, and the two **M8 x 55 mm SBHCS** on the side of the table.



- 2 On the right side of the frame, *loosen*, but do not remove, the four **M8 x 16 mm SBHCS** on each of the two **corner braces**.

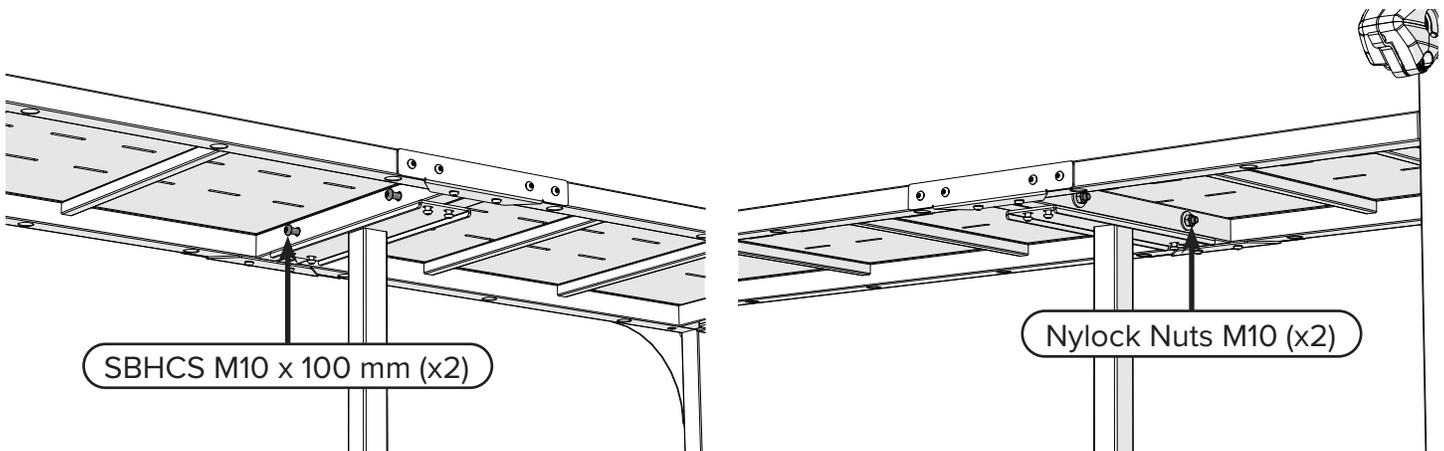


- 3 For the **middle leg**, *loosen*, but do not remove, the four **M8 x 16 mm SBHCS** that hold the leg to the table assemblies.

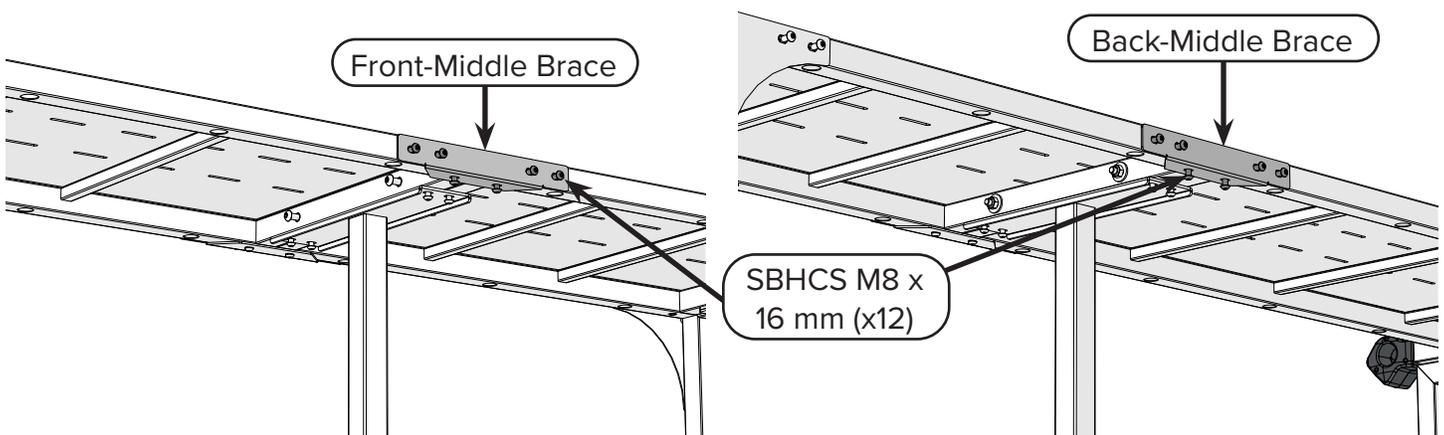


Task 4 - Adjusting the Braces & Legs (continued)

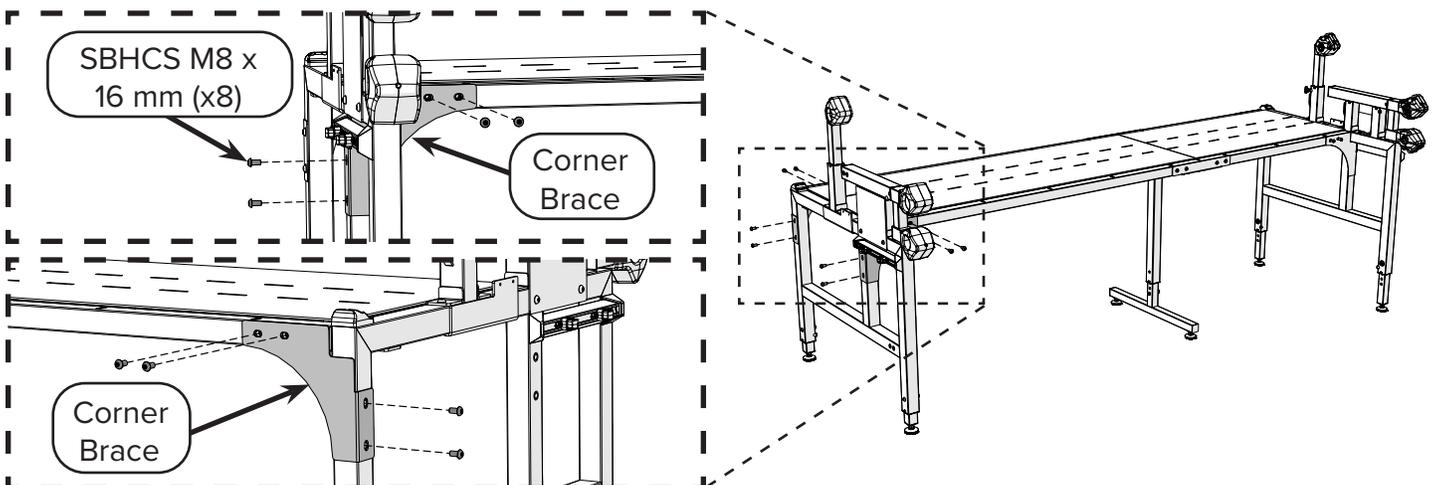
- 4 Near the middle leg, *loosen*, but do not remove, the two **M10 x 100 mm SBHCS** and two **M10 nylock nuts** that hold the table assemblies together. Use the 6 mm Allen wrench and the 17 mm open-end wrench.



- 5 For both the **front-middle** and **back-middle braces**, *loosen*, but do not remove, the four **M8 x 16 mm SBHCS** on the sides and the two **M8 x 16 mm SBHCS** on the underside of the brace. Use the 5 mm Allen wrench.



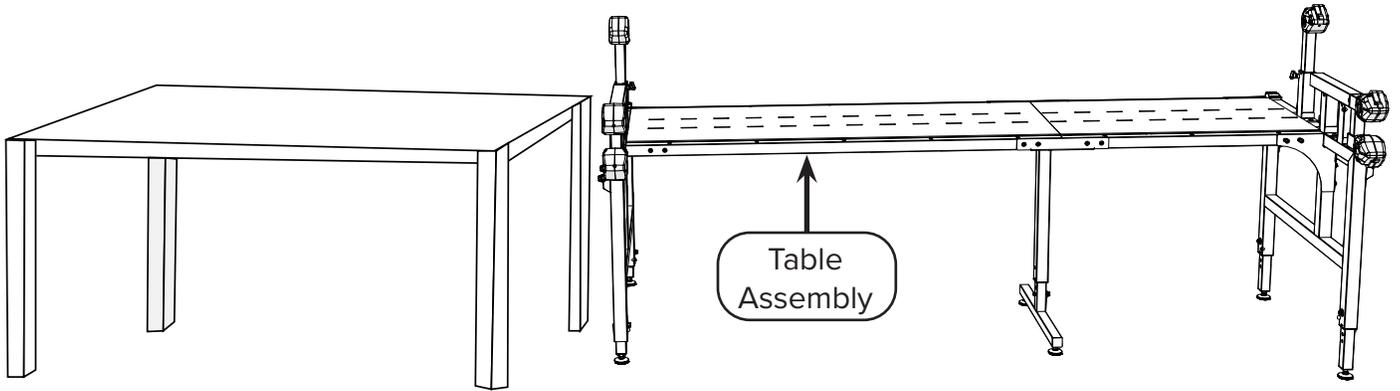
- 6 On the left side of the frame, *fully remove* the four **M8 x 16 mm SBHCS** on each of the two **corner braces**. Set aside the braces and the screws. You'll use them later.



Preparing to Upgrade An Elite-Frame

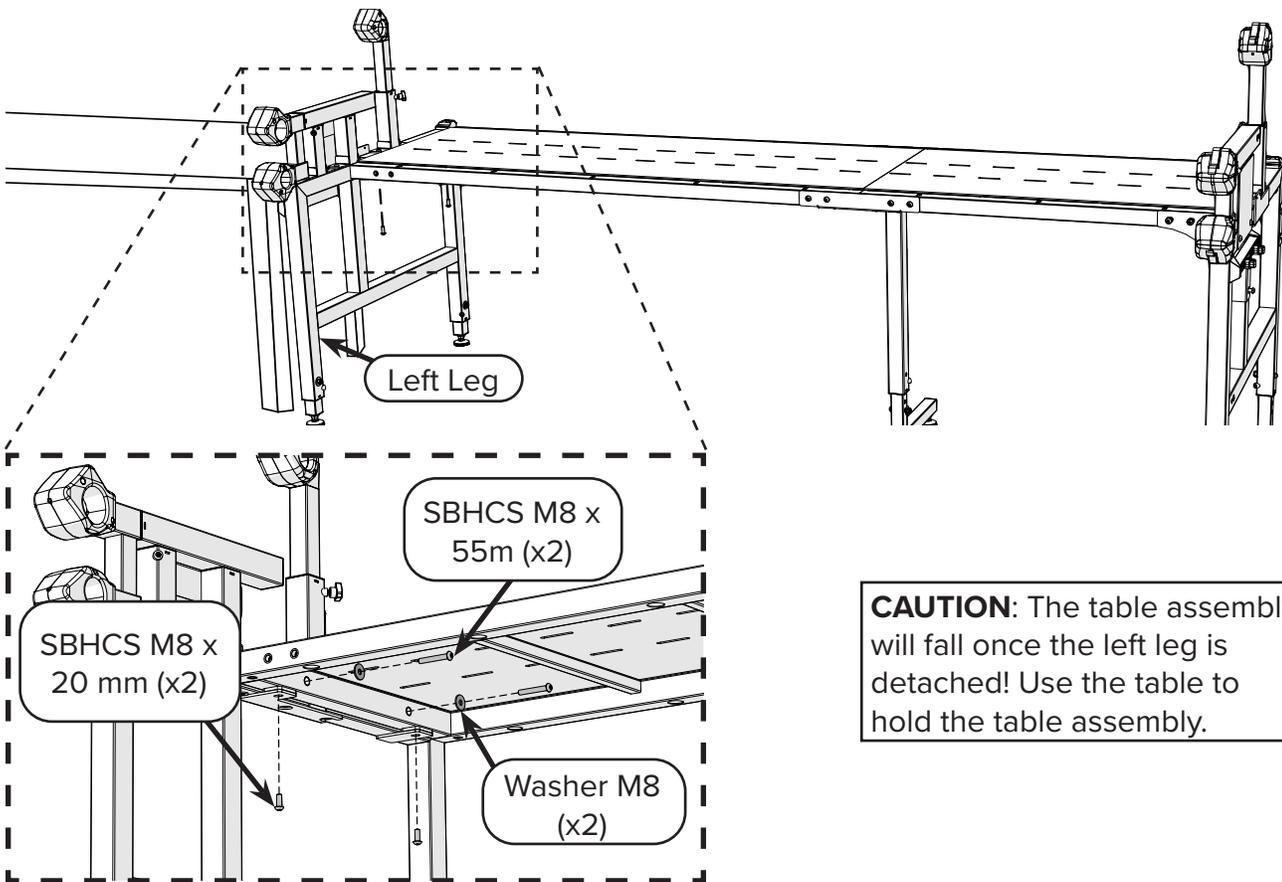
Task 4 - Adjusting the Braces & Legs (continued)

- 7 Position the table near the left legs of the frame. You'll be setting the **table assembly** on the table instead of the leg at the end of the next step.



- 8 **CAUTION:** Do this step with the table prepared for you to set the table assembly on as soon as the leg is detached. You might want a friend's help for this step!

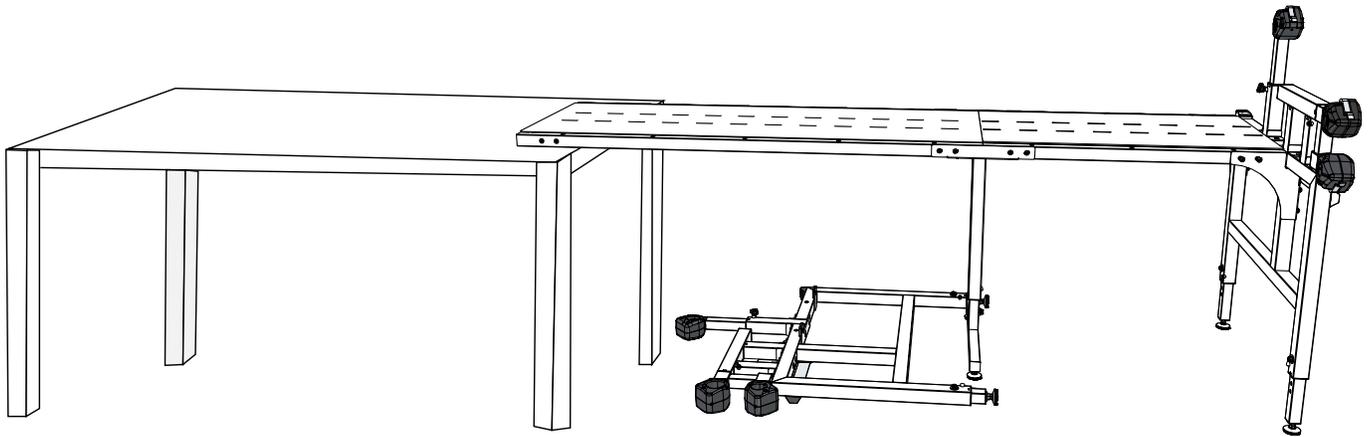
On the left side of the frame, use the 5 mm Allen wrench to *fully remove* the two **M8 x 20 mm SBHCS** on the underside of the left leg, and the two **M8 x 55 mm SBHCS** and two **M8 washers** on the side of the track assembly. The **left leg** comes off the table assembly. Put the table assembly on the table. Set aside the leg, the screws, and the washers. You'll use them all later.



CAUTION: The table assembly will fall once the left leg is detached! Use the table to hold the table assembly.

Task 4 - Adjusting the Braces & Legs (continued)

- 9 **Task Result:** The left leg has been removed from the frame. The right and middle legs are only loosely attached to the table assemblies. The table assembly is resting on a table or other work surface. Go to page 103 to learn your next steps.

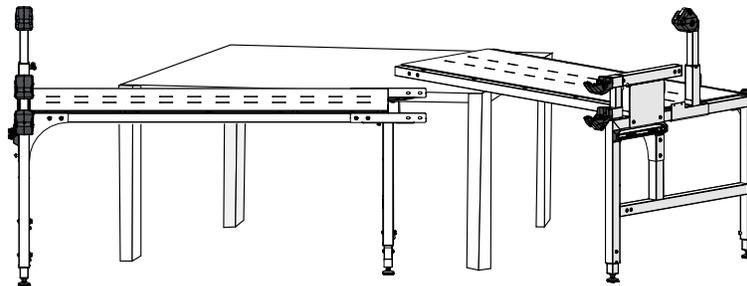


Adjusting the 10-Foot Frame

For the 10-Foot frame, you need to separate the two 5-foot table assemblies, and take one of them off the middle leg so you can be ready to add the extension. You also need to loosen the screws that keep the frame rigid.

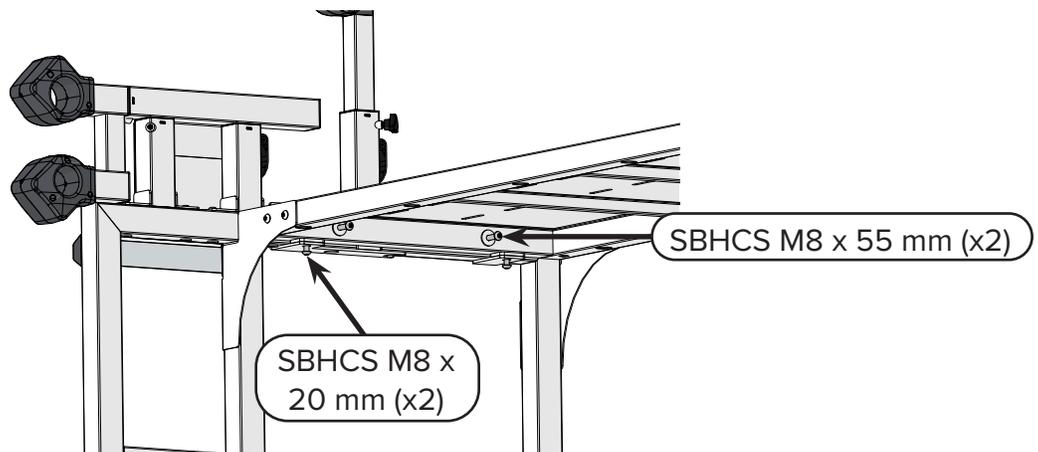
Note: Make sure to have a table or other raised, flat work surface nearby where you can rest the partially disassembled frame. You might also want a friend to help you with this part of the preparation.

Note: The table will be used as a support for the partly disassembled frame.



Do the following steps to adjust the braces and legs:

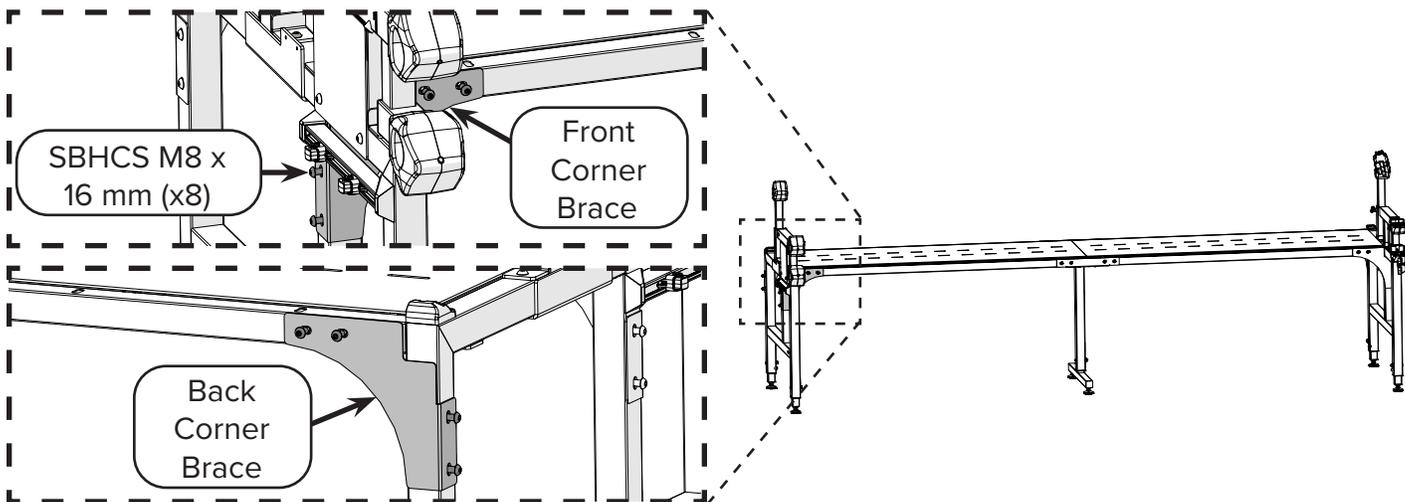
- 1 On the left side of the frame, use the 5 mm Allen wrench to *loosen*, but not remove, the two **M8 x 20 mm SBHCS** on the underside of the left leg, and the two **M8 x 55 mm SBHCS** on the side of the track assembly.



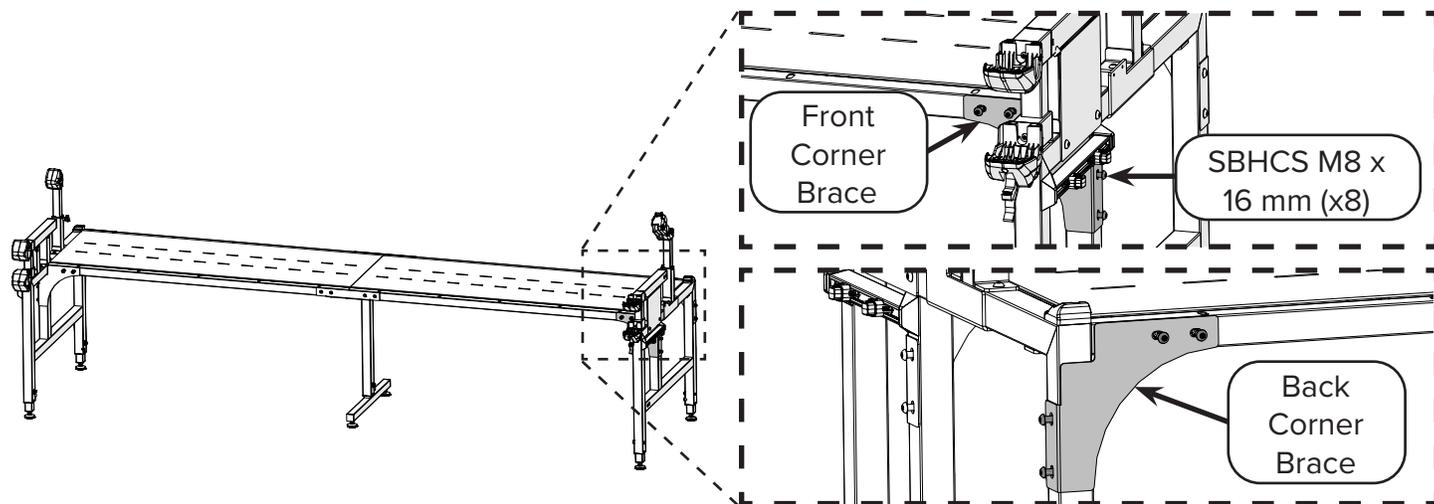
Preparing to Upgrade An Elite-Frame

Task 4 - Adjusting the Braces & Legs (continued)

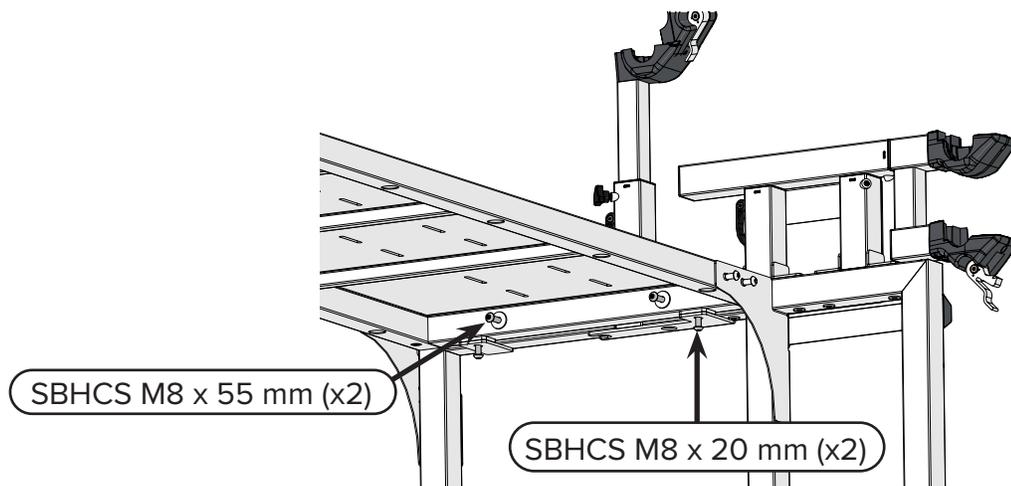
- 2 On the left side of the frame, *loosen*, but do not remove, the four **M8 x 16 mm SBHCS** on each of the two **corner braces**.



- 3 On the right side of the frame, *loosen*, but do not remove, the four **M8 x 16 mm SBHCS** on each of the two corner braces.

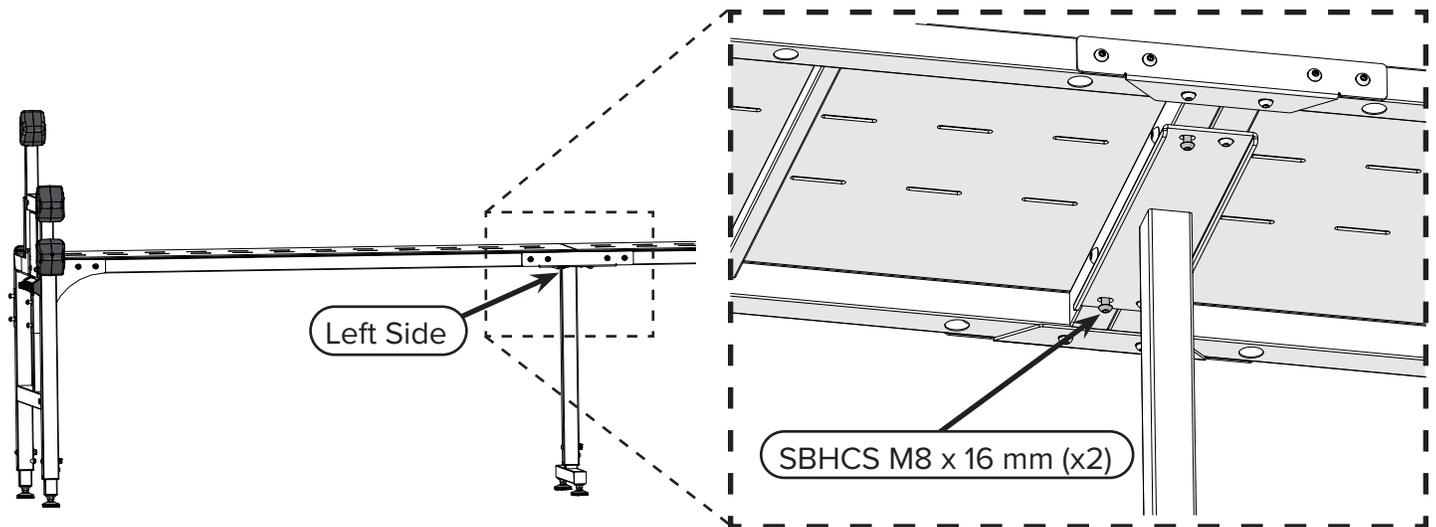


- 4 On the right side of the frame, *loosen*, but do not remove, the two **M8 x 20 mm SBHCS** on the underside of the right leg, and the two **M8 x 55 mm SBHCS** on the side of the table assembly.

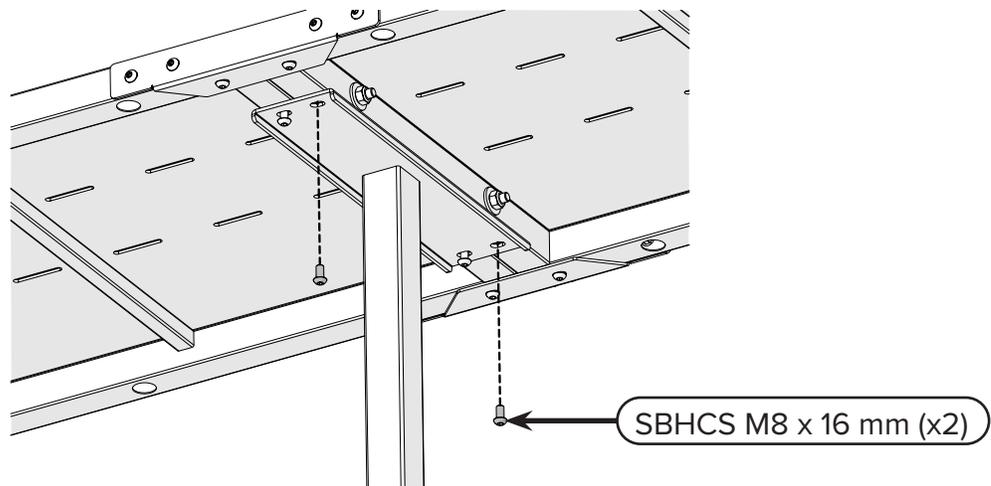


Task 4 - Adjusting the Braces & Legs (continued)

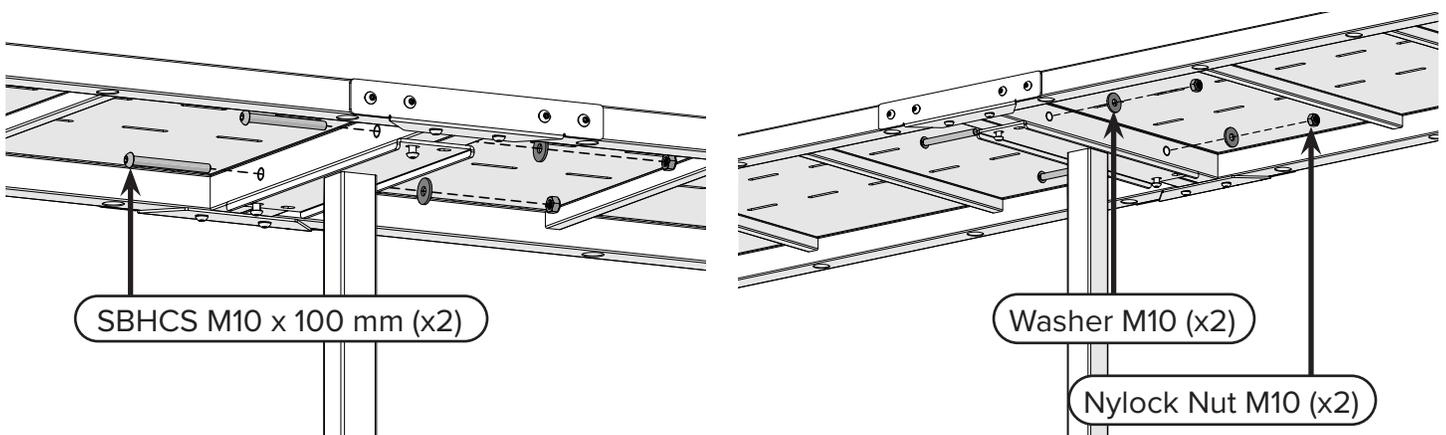
- 5 For the middle leg, on the **left side**, *loosen*, but do not remove, the two **M8 x 16 mm SBHCS**.



- 6 On the right side of the middle leg, *fully remove* the two **M8 x 16 mm SBHCS**. Set the screws aside. You'll use them later.



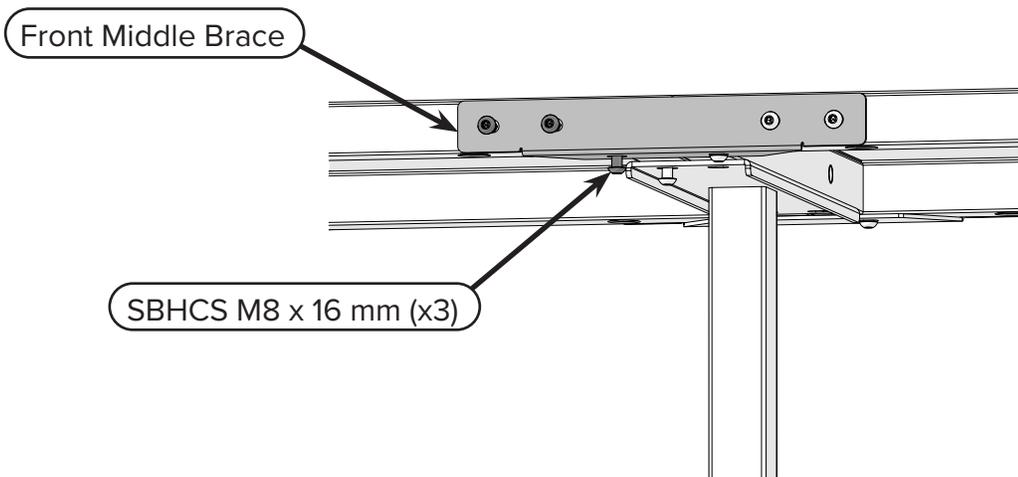
- 7 On the underside of the frame above the middle leg, *fully remove* the two **M10 x 100 mm SBHCS**, two **M10 washers**, and two **M10 nylock nuts**. Use the 6 mm Allen wrench and the 17 mm open-end wrench. Set these items aside. You'll use them later.



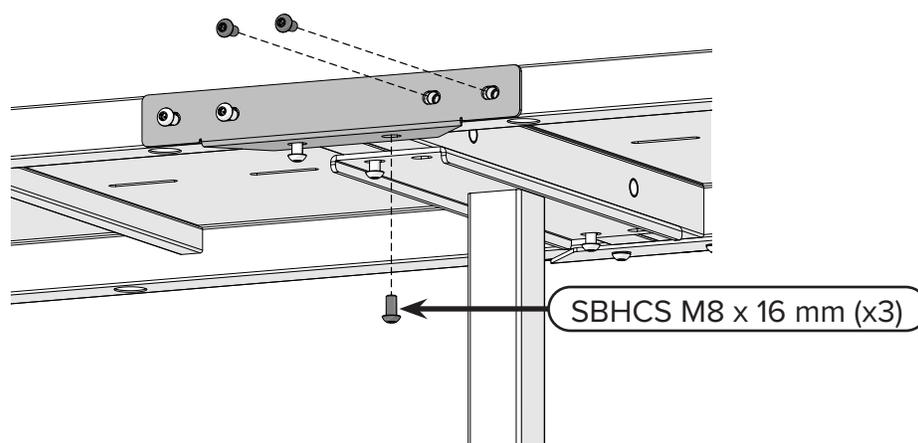
Preparing to Upgrade An Elite-Frame

Task 4 - Adjusting the Braces & Legs (continued)

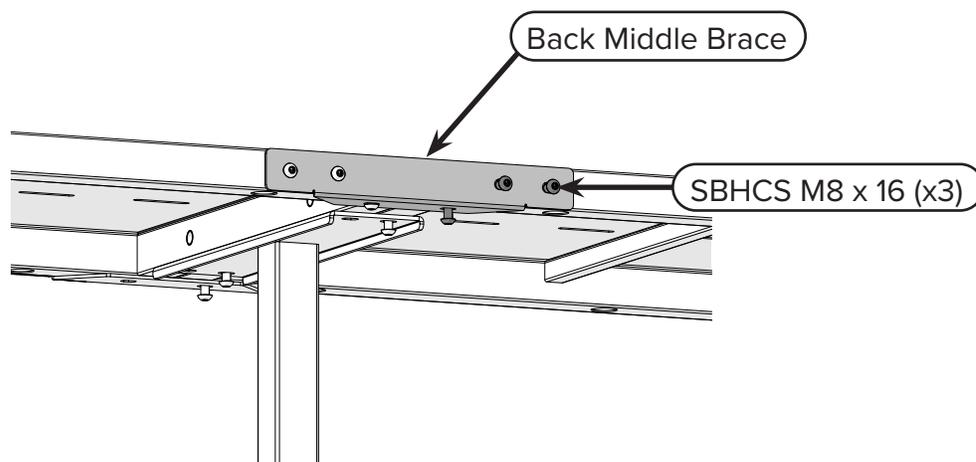
- 8 For the **front middle brace**, using the 5 mm Allen wrench, *loosen*, but do not remove, the three **M8 x 16 mm SBHCS** on the left side and left underside of the brace.



- 9 On the right side of the front middle brace, *fully remove* the three **M8 x 16 mm SBHCS**. Set the screws aside. You'll use them later.

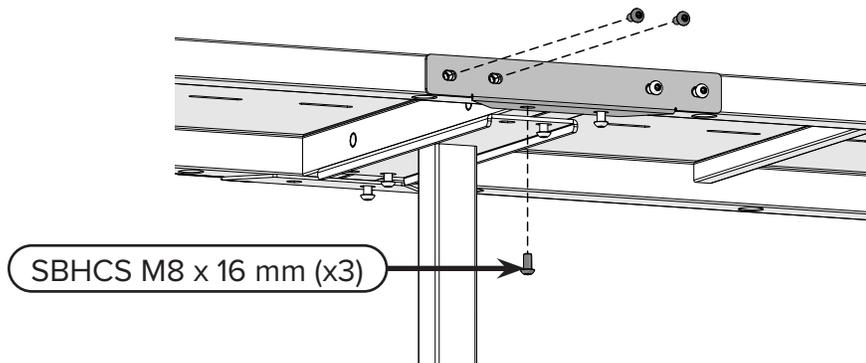


- 10 For the **back middle brace**, on the left side of the frame (your right as you face the frame from the back), *loosen*, but do not remove, the three **M8 x 16 mm SBHCS**.

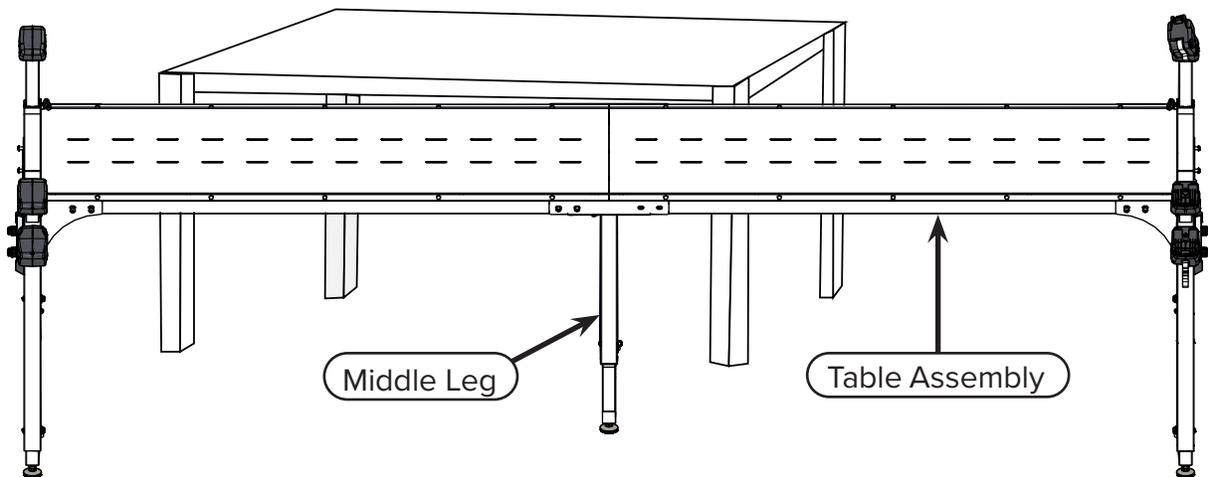


Task 4 - Adjusting the Braces & Legs (continued)

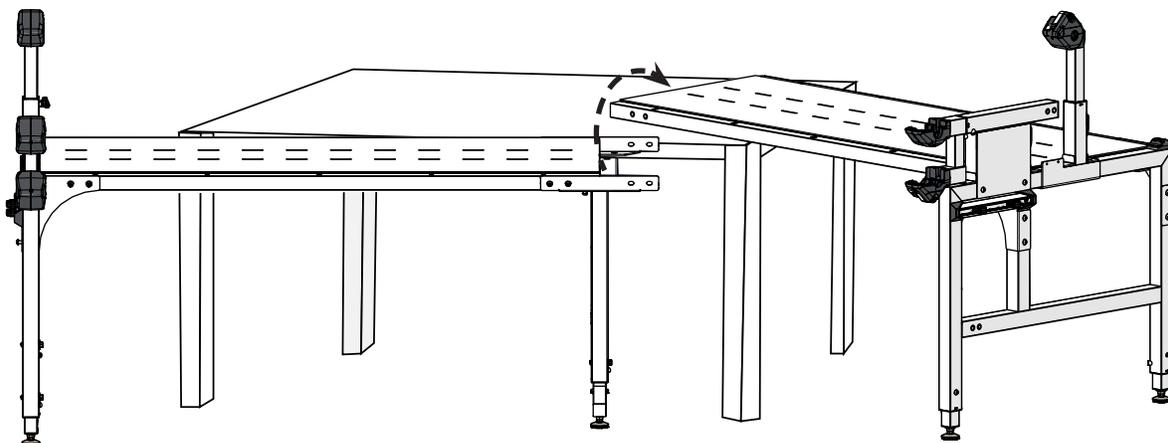
- 11 On the right side of the back middle brace (your left as you face the frame from the back), *fully* remove the three **M8 x 16 mm SBHCS**. Set the screws aside. You'll use them later.



- 12 Make sure the table is set up near the **middle leg** of the frame. In the next step, you'll be having the table hold the **table assembly**, instead of the middle leg.



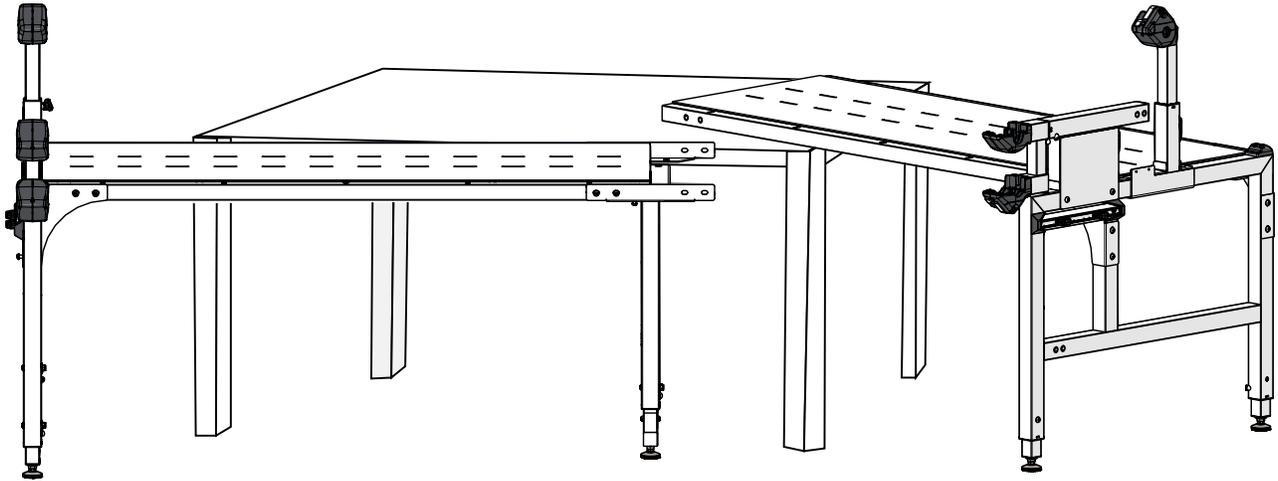
- 13 In the middle of the frame, grab the right table assembly at the point where you disconnected it from the middle leg. Lift the table assembly, and rotate it (and the right leg with it) until it can rest on the table.



Preparing to Upgrade An Elite-Frame

Task 4 - Adjusting the Braces & Legs (continued)

- 14 **Task Result:** The frame has been separated into two halves. One half is still attached to the middle leg, while the other half is resting on the table.



Congratulations! You have prepared to upgrade your Elite-Frame.

Next, you need to assemble the Evolution Elite-Frame upgrade that you purchased. Do one of the following:

- If you are upgrading from an 8-Foot Frame to a 10-Foot Frame, go to “Completing the 8-Foot to 10-Foot Elite-Frame Upgrade” on page 104.
- If you are upgrading from a 10-Foot Frame to a 12-Foot Frame, go to “Completing the 10-Foot to 12-Foot Elite-Frame Upgrade” on page 123.



Note: If your original frame is the Evolution Hoop-Frame, then these instructions don't apply to you. Go to "Taking Apart the Hoop Frame" on page 1 for the first set of instructions you need.

Completing the 8-Foot to 10-Foot Elite-Frame Upgrade

Progress Checkpoint

Before you begin assembling your frame, make sure:

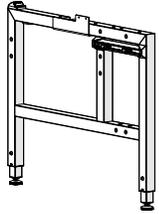
- You purchased the 2-Foot Extension kit. You must have box 7. If you have other boxes in your upgrade kit, then you have purchased a different size upgrade. Go to "Welcome to Your Evolution Upgrade Kit" on page vi to determine what upgrade kit you have.
- You have taken apart the 8-Foot Evolution Elite-Frame, as instructed in "Preparing to Upgrade An Elite-Frame" on page 82.

Task 1 - Setting the Height of the Middle Leg.....	105
Task 2 - Assembling the Tracks	108
Task 3 - Installing the Table.....	114
Task 4 - Attaching the Braces	117

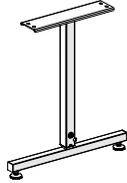
Task 1 - Setting the Height of the Middle Leg

Parts & Tools Needed

Left Leg
(with orig frame)



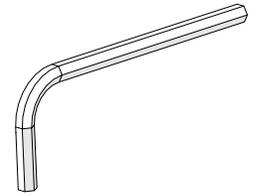
Middle Leg
(Box 7)



T-handle Allen Wrench
4 mm



Allen Wrench 5 mm



Open-End Wrench
10 mm and 13 mm
(with orig frame)

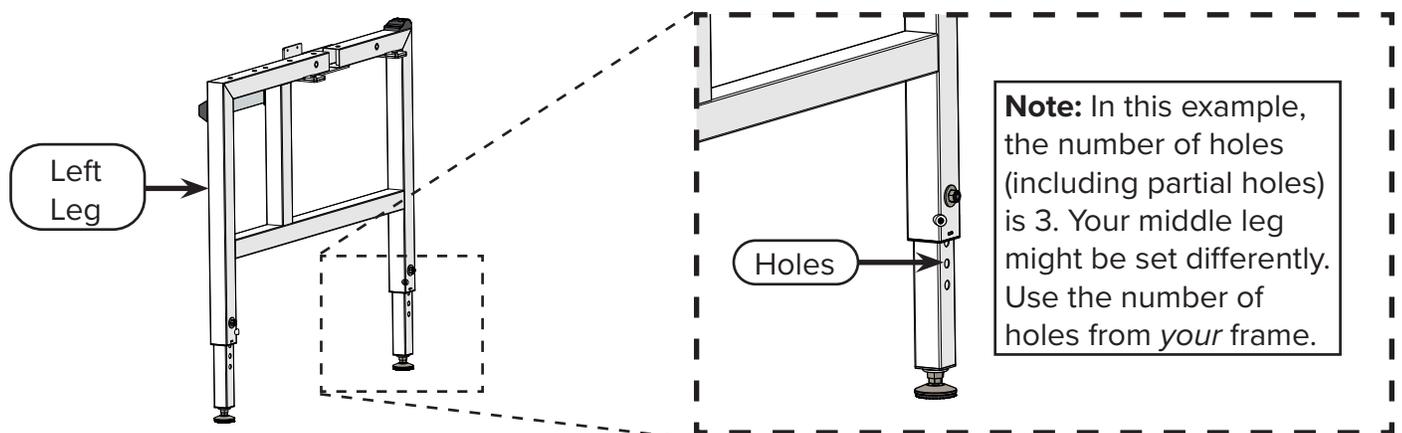


Instructions

Just as you needed to set the height of the legs when you assembled the original frame (so that the height would be comfortable during prolonged use), you must set the height of the middle leg before you put the frame together.

Do the following to set the height of the new middle leg:

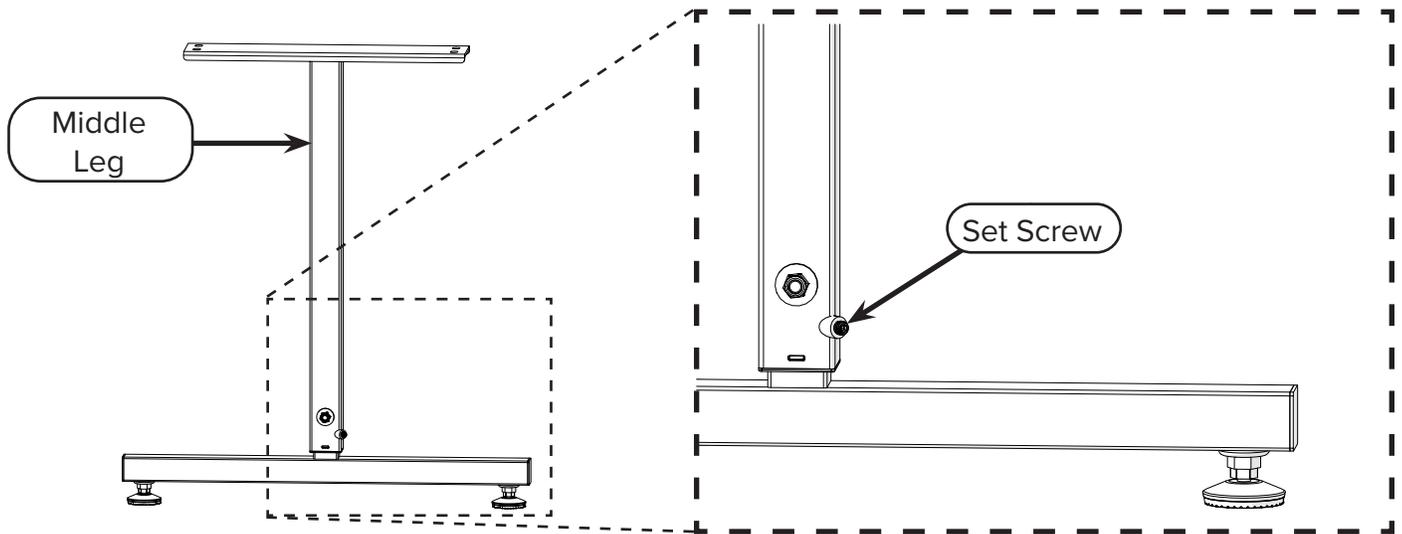
- 1 Locate the **left leg** of the frame (it's the one you just took completely off the frame), and examine it, noting how many **holes** you can see on the leg, including partial holes. Remember or write down the number.



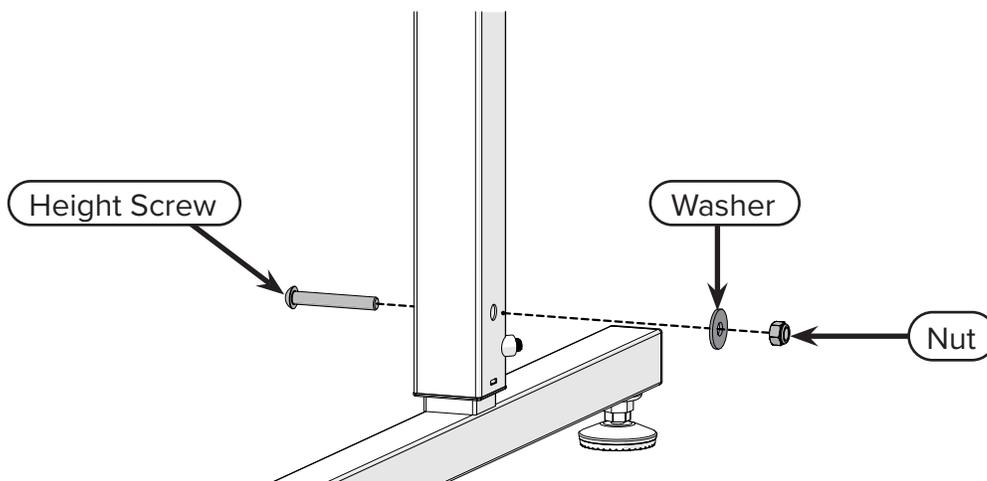
Completing the 8-Foot to 10-Foot Elite-Frame Upgrade

Task 1 - Setting the Height of the Middle Leg (continued)

- 2 Loosen the **set screw** on the new **middle leg** with the 4 mm Allen wrench.

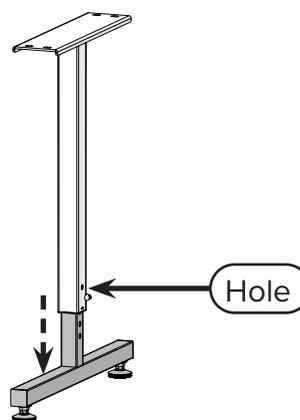


- 3 Remove the **height screw**, **washer**, and **nut** from the middle leg with the 5 mm Allen wrench and the 13 mm open-end wrench.



- 4 Pull out the bottom part of the middle leg until you can see the same number of **holes** as the other legs, using the number of holes you noted on the left leg.

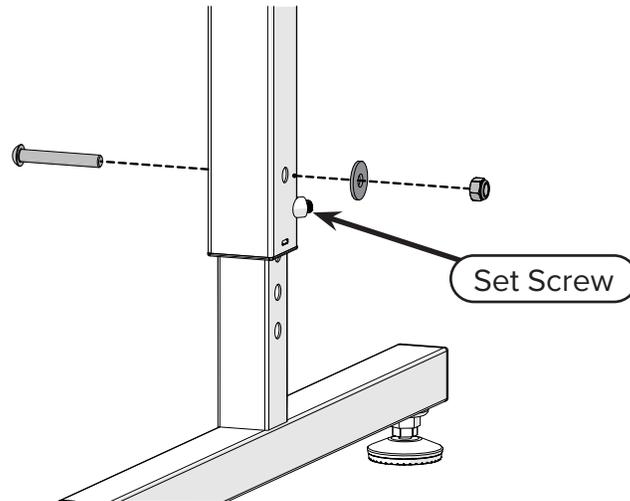
Note: In this example, the height has been set so that 3 holes are visible under the leg. Your frame height might be different. Use the height of *your* frame.



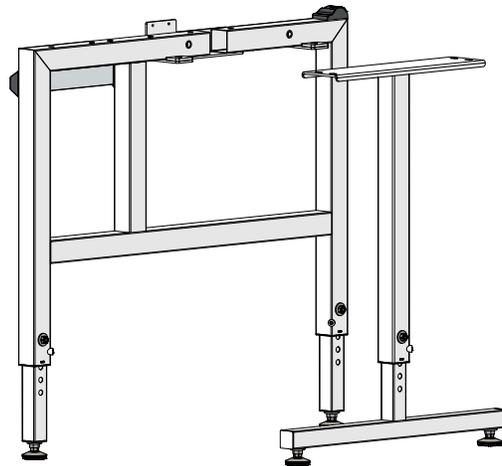
Completing the 8-Foot to 10-Foot Elite-Frame Upgrade

Task 1 - Setting the Height of the Middle Leg (continued)

- 5 Reinstall the height screw, washer, and nut, and tighten the **set screw**.



- 6 **Task Result:** The new middle leg is the same height as the other legs.



Completing the 8-Foot to 10-Foot Elite-Frame Upgrade

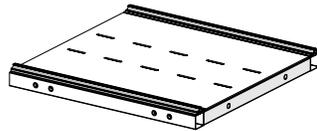
Task 2 - Assembling the Tracks

Parts & Tools Needed

8-ft Metal Tracks
(x2) (with orig frame,
removed earlier)



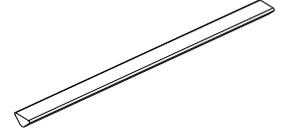
2-ft Table Assembly
(Box 7)



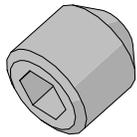
12-ft Plastic Track
(Box 7)



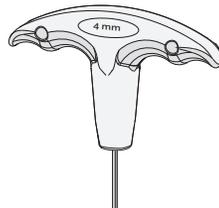
Track Support
Connector (x2)
(Box 7, Hardware)



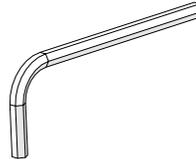
Socket CSS
M6 x 6 mm (x8)
(Box 7, Hardware)



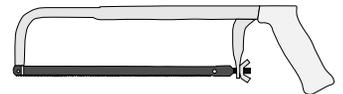
T-handle Allen Wrench
4 mm



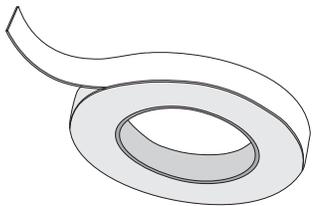
Allen Wrench 3 mm
(with orig frame)



Hack Saw
(not included)



Marking Tool
(tape, highlighter, pencil)
(not included)



Instructions

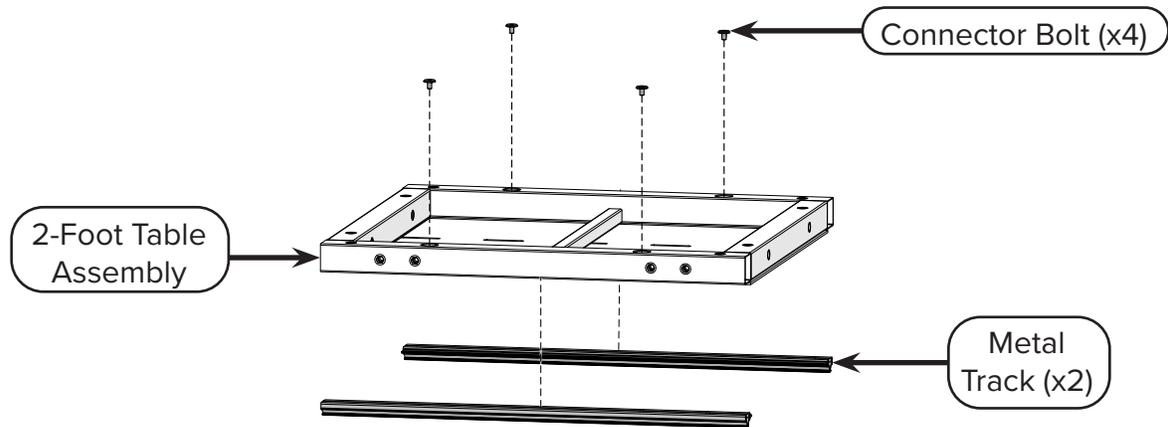
To make the frame longer, you need to add more tracks to the ones you removed from the 8-foot frame. To protect the tracks during shipping, they are sent to you installed on the table assembly. However, for the optimal performance for your frame, you must partially take them apart and then reassemble the tracks.

Take the following steps to assemble the tracks:

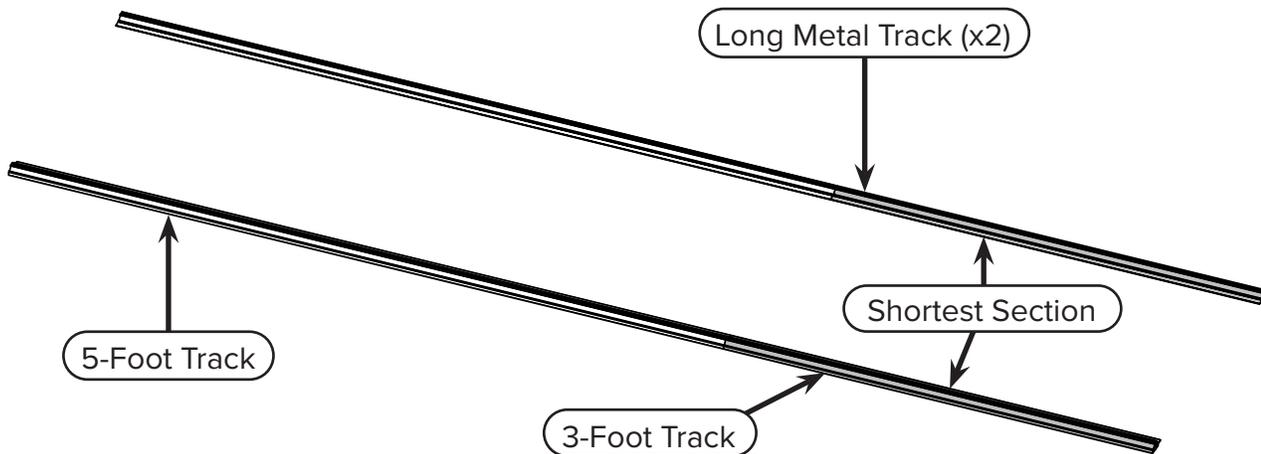
Completing the 8-Foot to 10-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

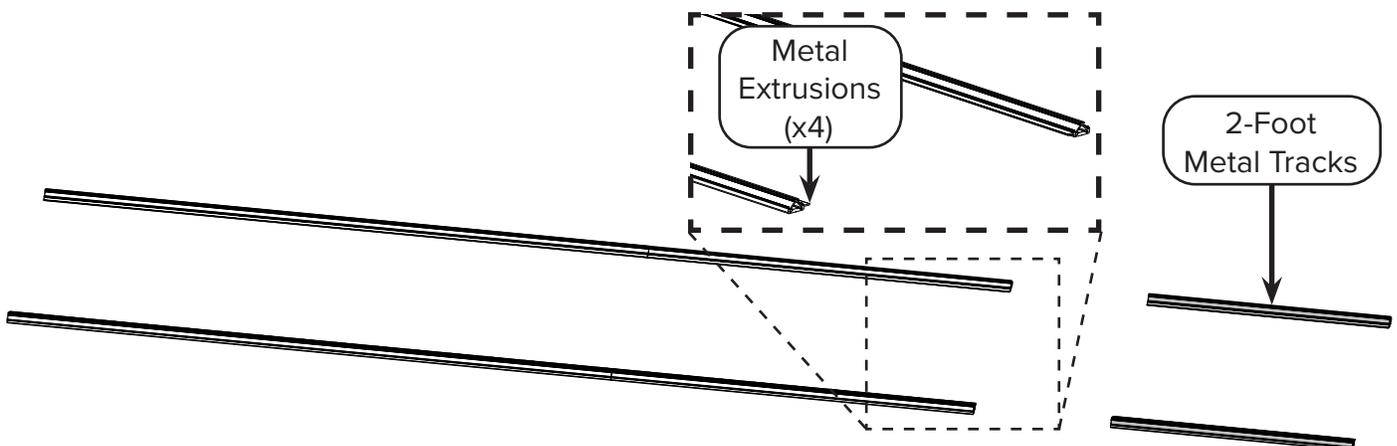
- 1 Remove the four **connector bolts** on the **2-foot table assembly** with the 4 mm Allen wrench. The two 2-foot **metal tracks** are now separated from the table. Set the connector bolts aside. You'll use them later.



- 2 Locate the 8-foot **metal tracks** you removed earlier from the original frame. Examine them, and note the **shortest section** of them. (The tracks have a **5-foot section** and a **3-foot section**.)



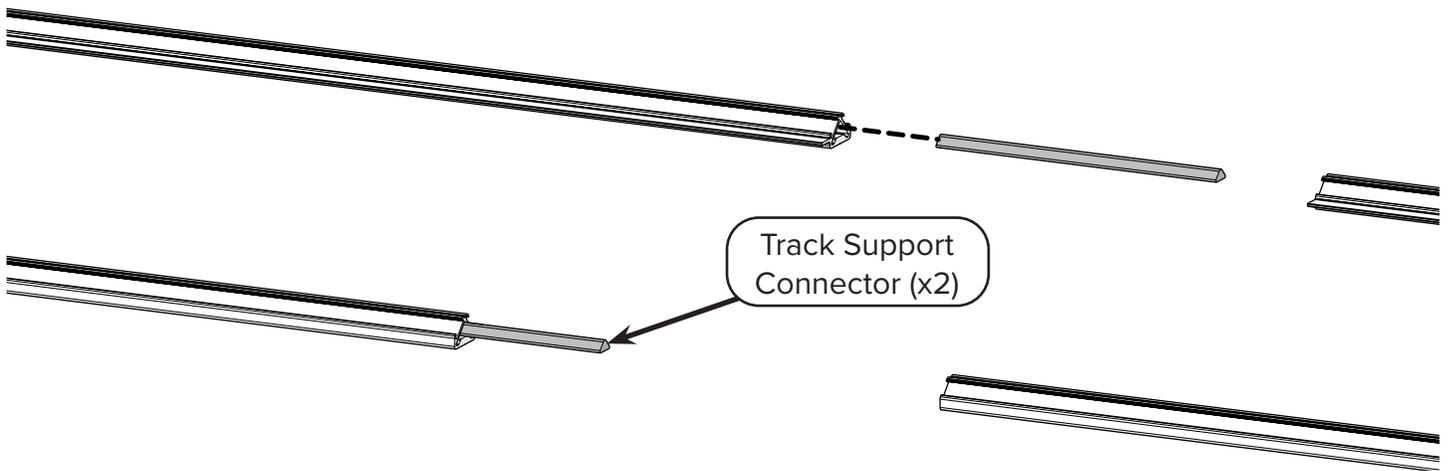
- 3 Align the **2-foot metal tracks** to the right of the long metal tracks, next to the shortest (3-foot) section. Note the orientation of the **metal extrusions**, and make sure the extrusions face the inside of all tracks.



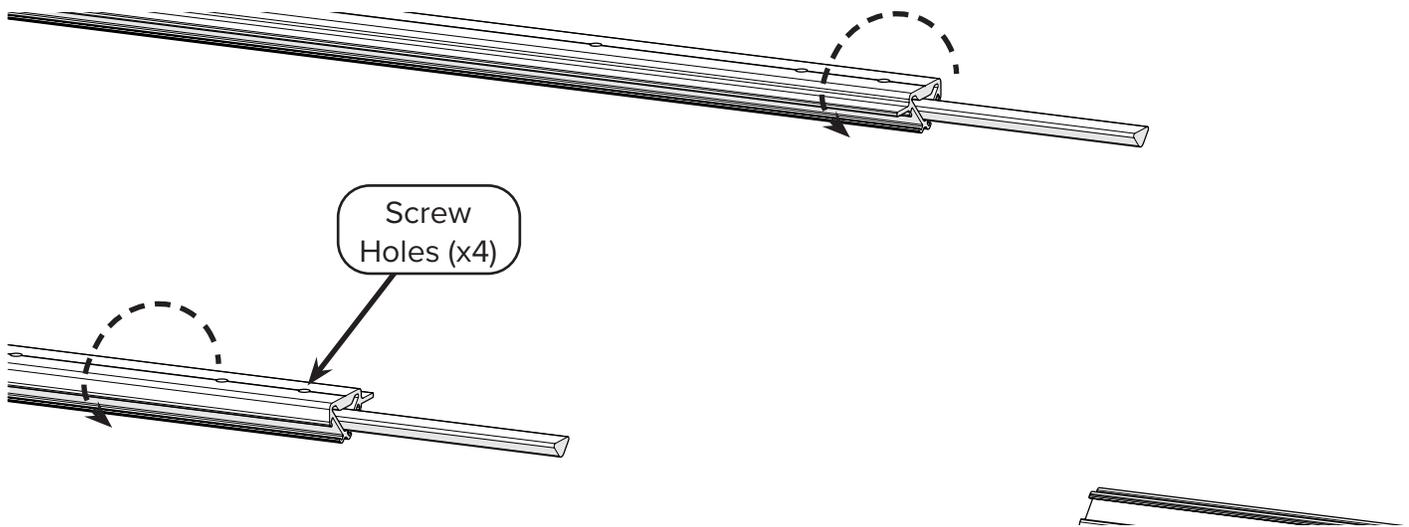
Completing the 8-Foot to 10-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

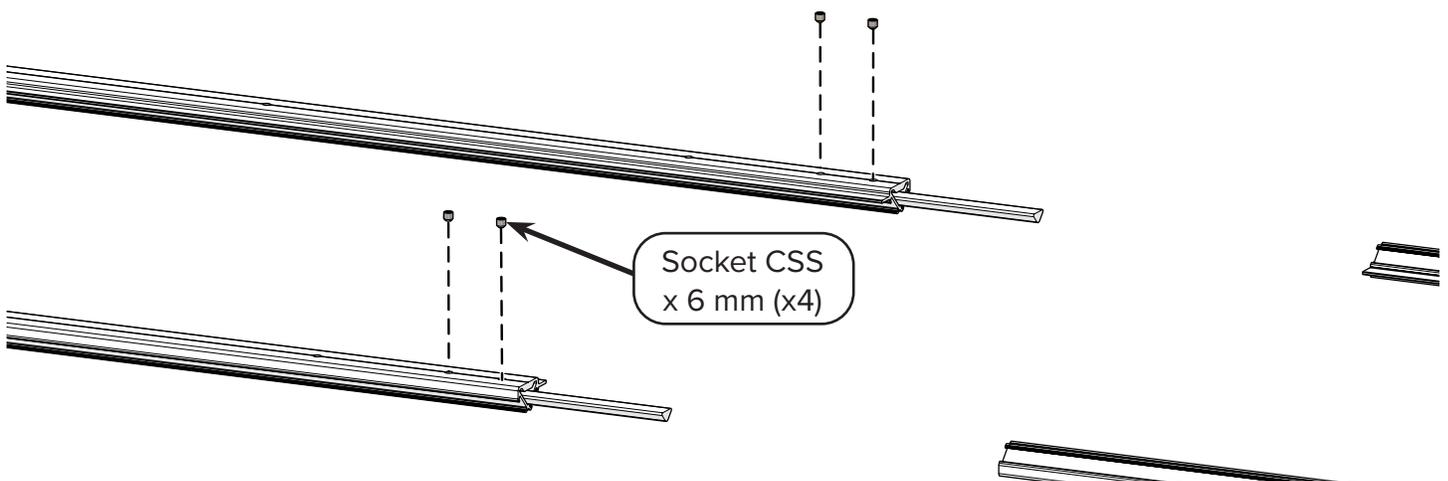
- 4 Place a **track support connector** halfway into the end of the shortest section of each of the long metal tracks.



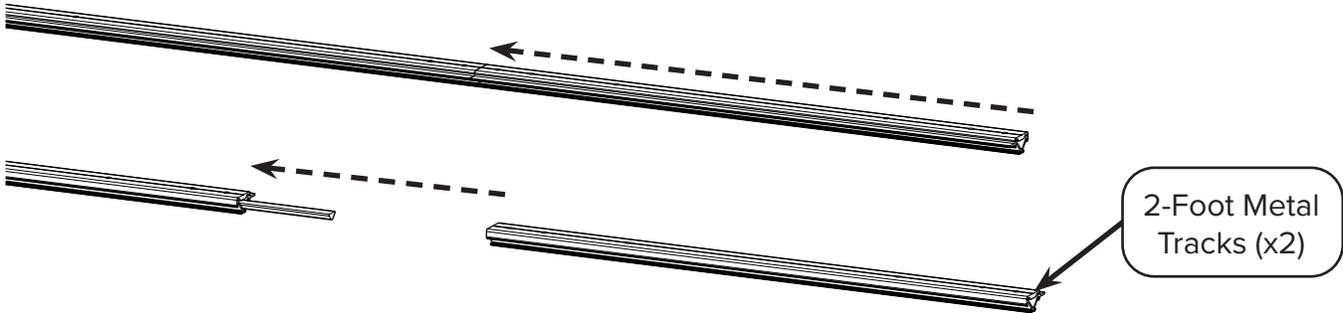
- 5 Carefully flip the long metal tracks to expose the **screw holes** at the bottom.



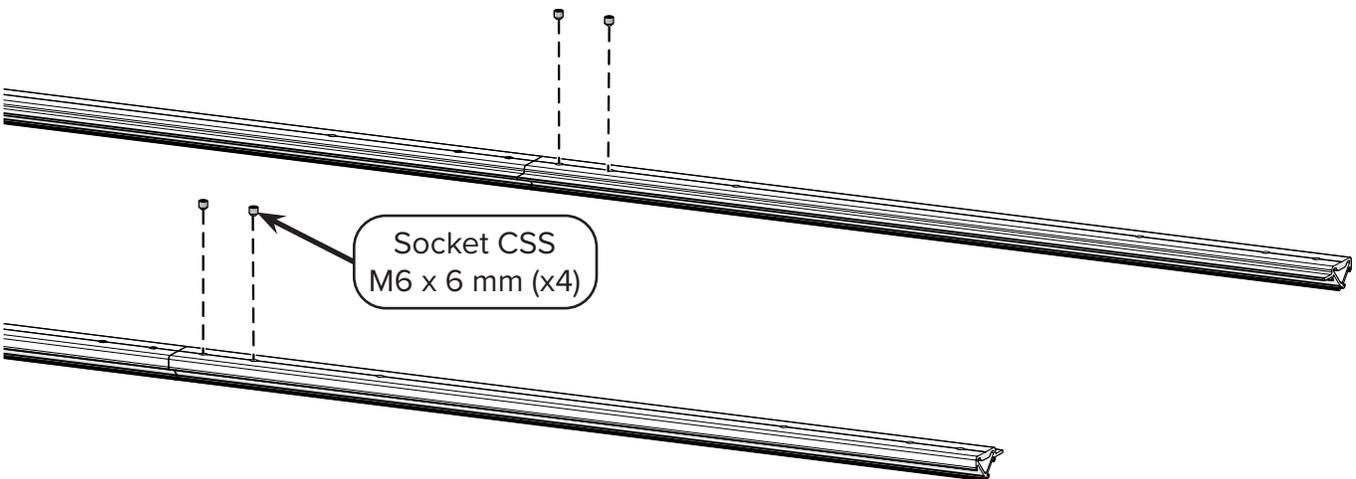
- 6 Use the 3 mm Allen wrench to install two **M6 x 6 mm Socket CSS** into each of the long metal tracks to hold the track support connectors in place.



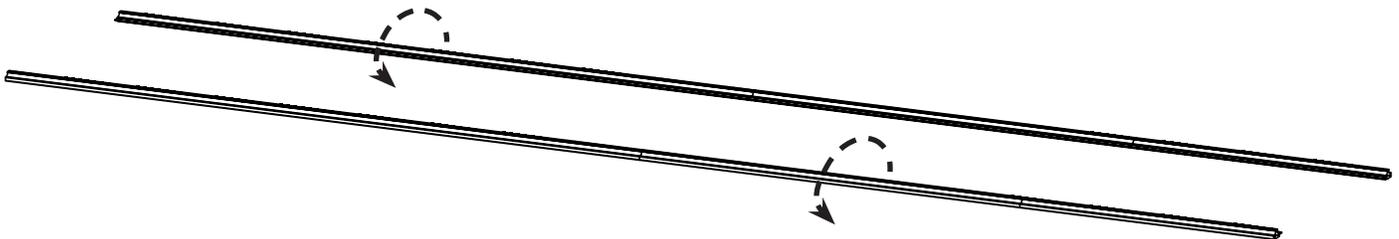
- 7 Flip the **2-foot metal tracks** over, and then slide them on the track support connectors.



- 8 Use the 3 mm Allen wrench to install two **M6 x 6 mm Socket CSS** into each of the 2-foot metal tracks to secure them to the connectors.



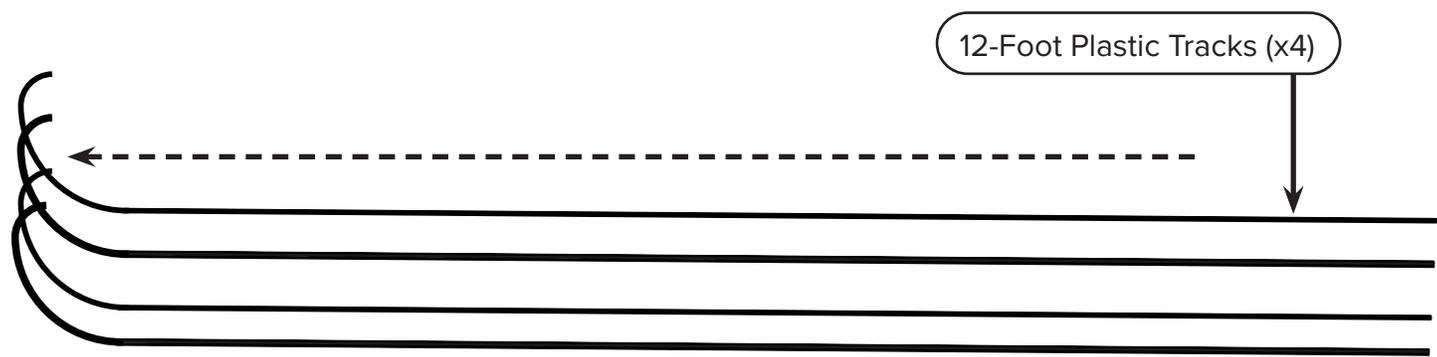
- 9 Flip the tracks over again.



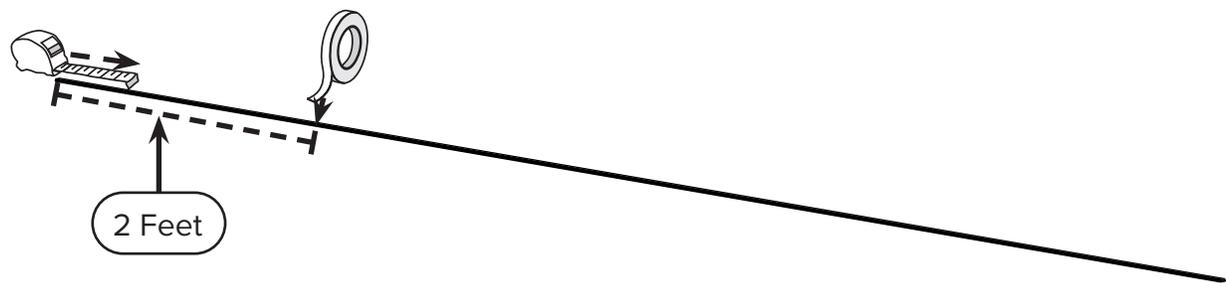
Completing the 8-Foot to 10-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

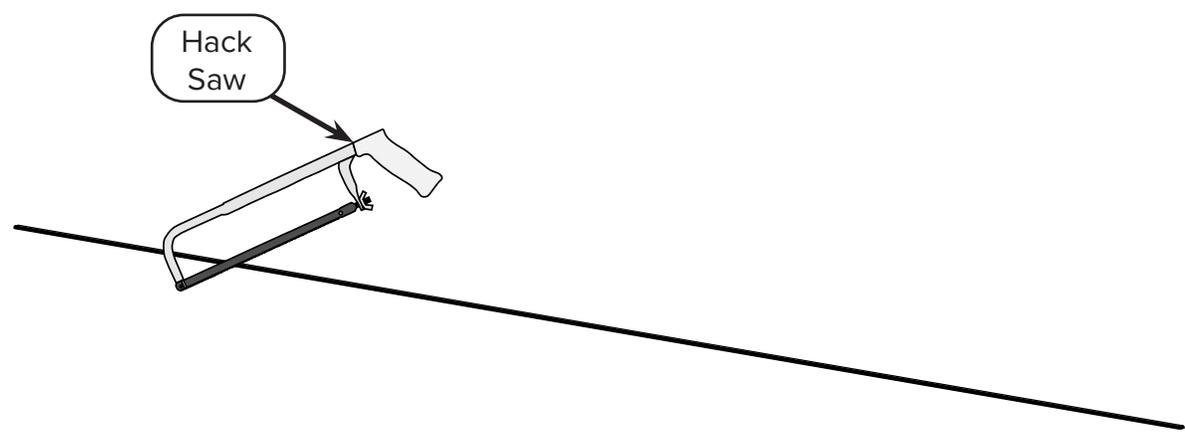
- 10 Roll out the four **12-foot plastic tracks** until they are flat.



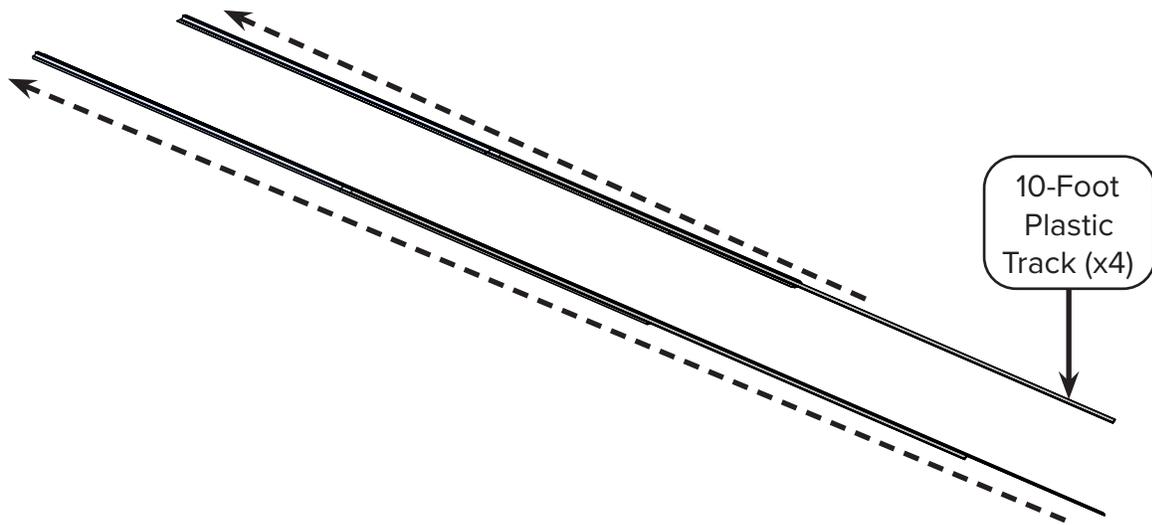
- 11 Measure **2 feet** from the end of each plastic track. Use tape, a highlighter, or a pencil to mark the measurement on the track.



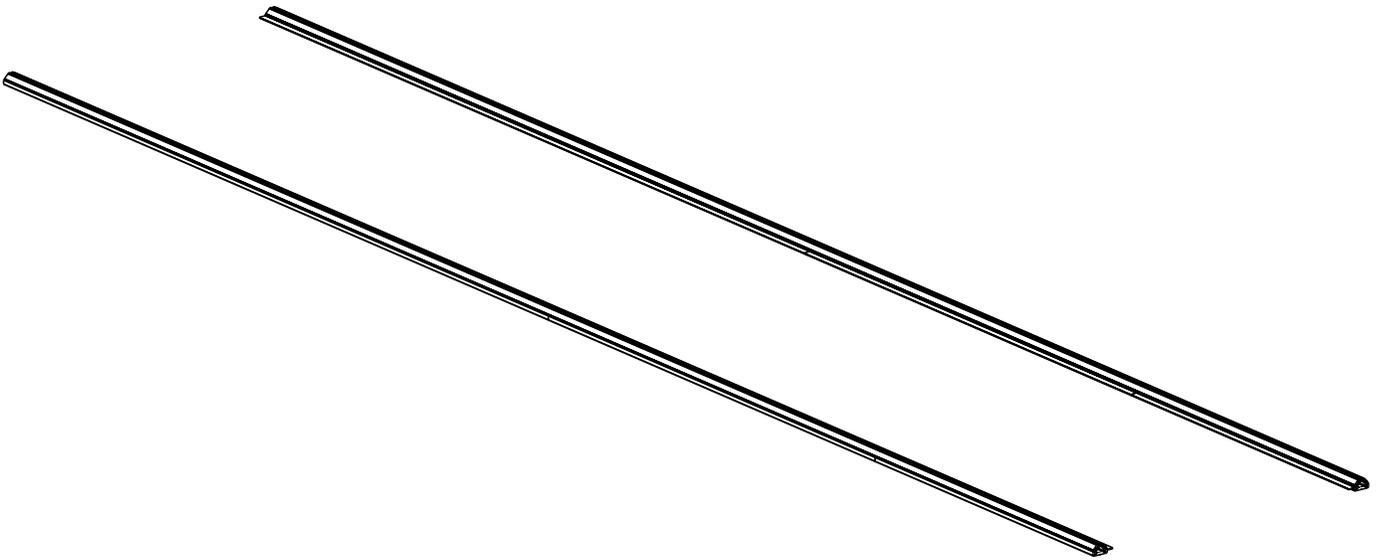
- 12 Use a **hack saw** to cut the extra 2 feet off each of the tracks. When you're finished, each track will be 10 feet long.



- 13 Slide two **10-foot plastic tracks** into each metal track assembly.



- 14 **Task Result:** The 10-foot tracks are fully assembled. You'll put them on the frame later.

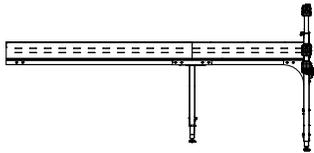


Completing the 8-Foot to 10-Foot Elite-Frame Upgrade

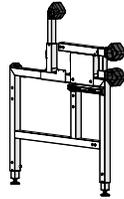
Task 3 - Installing the Table

Parts & Tools Needed

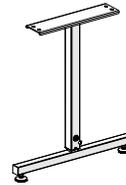
Right Leg with 8-ft
Table Assembly



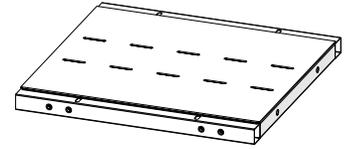
Left Leg



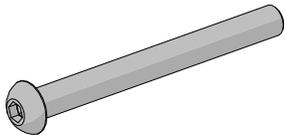
Middle Leg



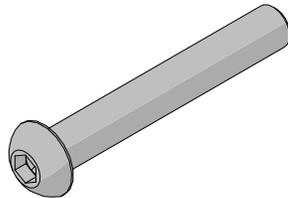
2-ft Table Assembly



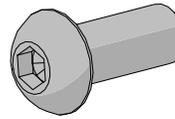
SBHCS M10 x 100 mm
(x2, Box 7, Hardware)



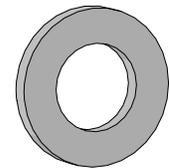
SBHCS M8 x 55 mm
(x2) (with orig frame)



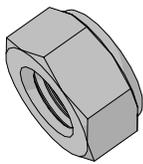
SBHCS M8 x 20 mm
(x2) (with orig frame)



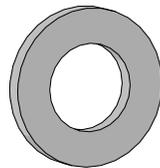
Washer M8 (x2)
(with orig frame)



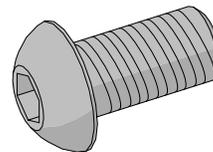
Nylock Nut M10
(x2, Box 7, Hardware)



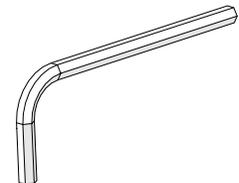
Washer M10
(x2, Box 7, Hardware)



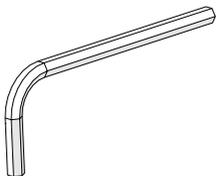
SBHCS M8 x 16 mm
(x4, Box 7, Hardware)



Allen Wrench 5 mm



Allen Wrench 6 mm



Open-End Wrench
14 mm and 17 mm

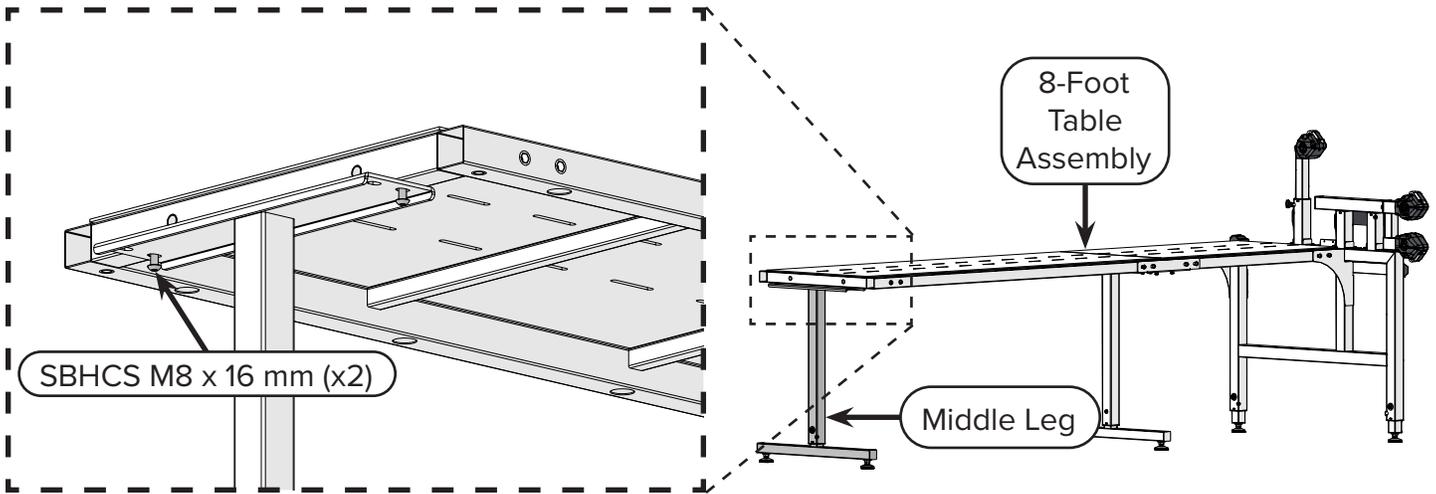


Instructions

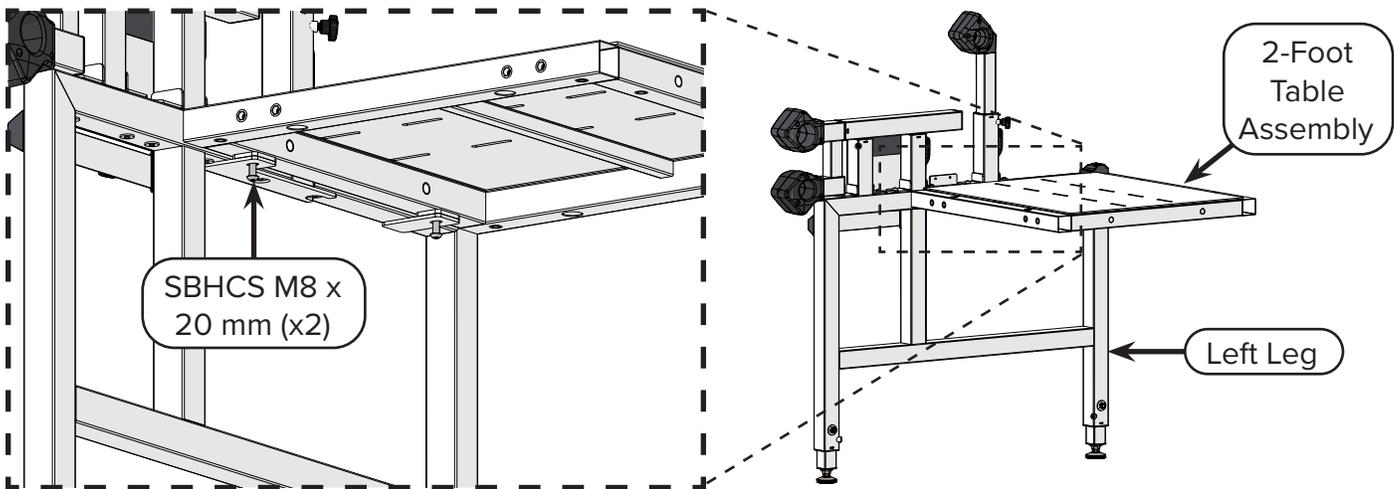
Next you're going to assemble the new "bones" of the frame, adding the second middle leg and the 2-foot table to the frame.

With help from a friend, take the following steps to install the 2-foot table:

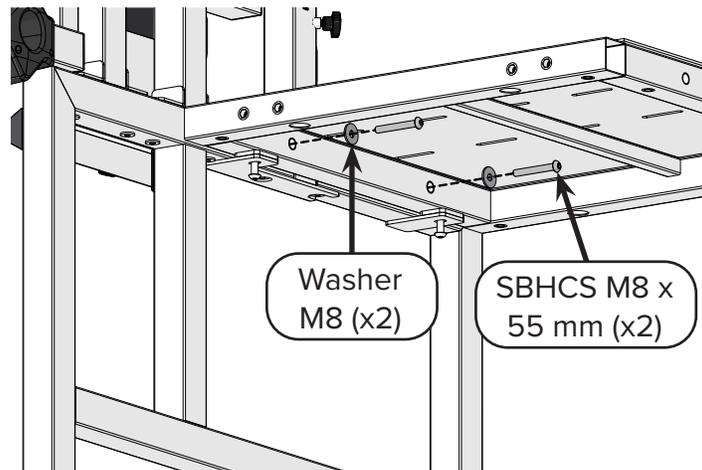
- Using two **M8 x 16 mm SBHCS** and the 5 mm Allen wrench, *loosely* attach the **middle leg** to the end of the **8-foot table assembly** that is attached to the right leg.



- Use the Allen wrench and two **M8 x 20 mm SBHCS** to *loosely* connect the **2-foot table assembly** to the **left leg**.



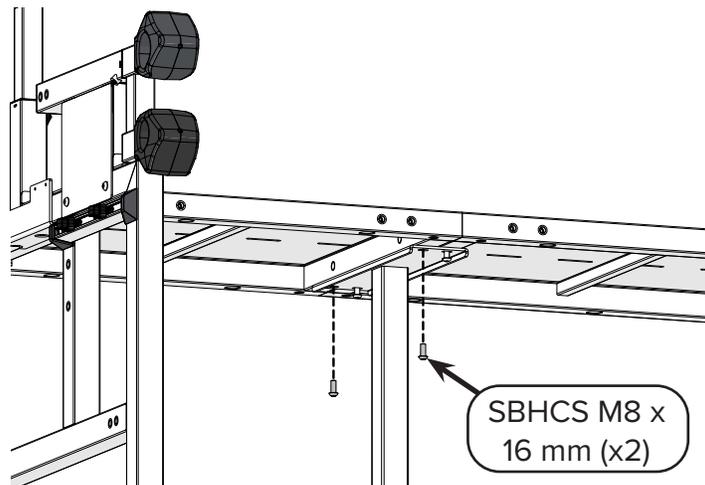
- Loosely install two **M8 x 55 mm SBHCS** and two **M8 washers** to the side of the table and the left leg with the Allen wrench.



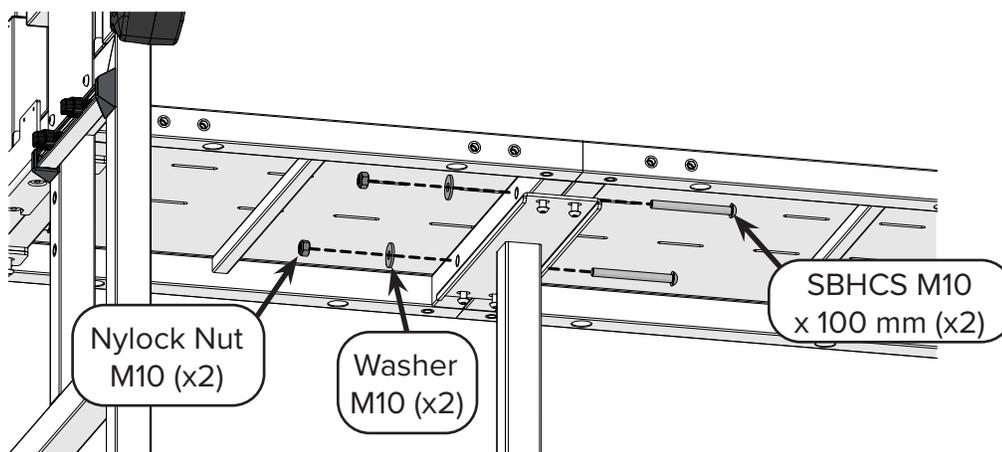
Completing the 8-Foot to 10-Foot Elite-Frame Upgrade

Task 3 - Installing the Table (continued)

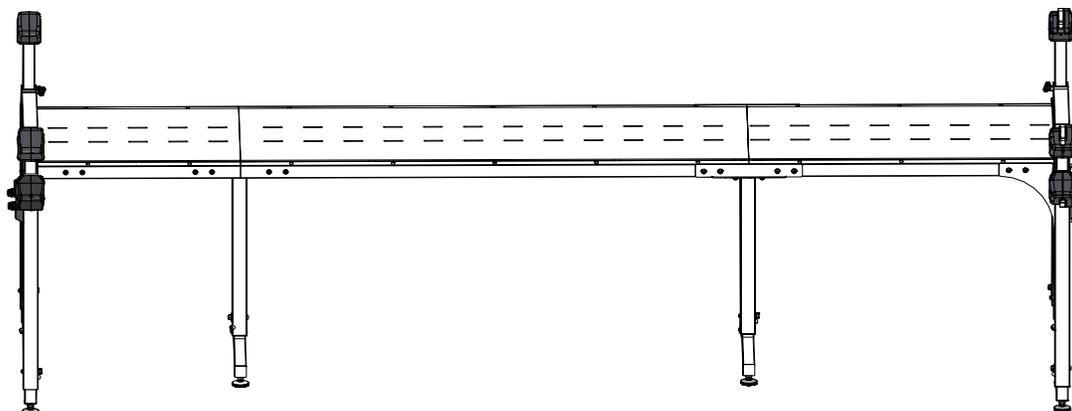
- 4 Loosely attach the other side of the 2-foot table to the middle leg with two **M8 x 16 mm SBHCS** and the Allen wrench.



- 5 Attach the 2-foot and 5-foot table assemblies together with two **M10 x 100 mm SBHCS**, two **M10 washers**, and two **M10 nylock nuts**. Loosely connect these pieces with the 6 mm Allen wrench and the 17 mm open-end wrench.



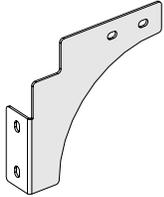
- 6 **Task Result:** The table sections have been *loosely* installed onto the frame legs. All the screws holding the tables on the legs need to be loose, including the ones you loosened when you took apart the 8-foot frame. You'll tighten all these screws at the end of the next task.



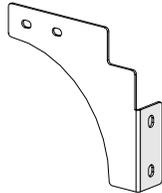
Task 4 - Attaching the Braces

Parts & Tools Needed

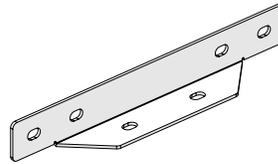
Corner Brace A
(with orig frame)



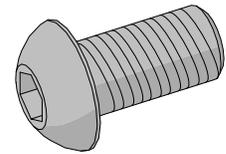
Corner Brace B
(with orig frame)



Middle Table Brace
(x2, Box 7)



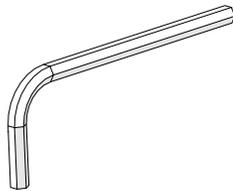
SBHCS M8 x 16 mm
(x20) (Box 7 &
with orig frame)



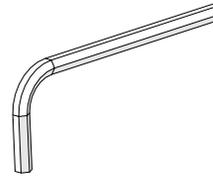
Open-End Wrench
14 mm and 17 mm



Allen Wrench 6 mm



Allen Wrench 5 mm

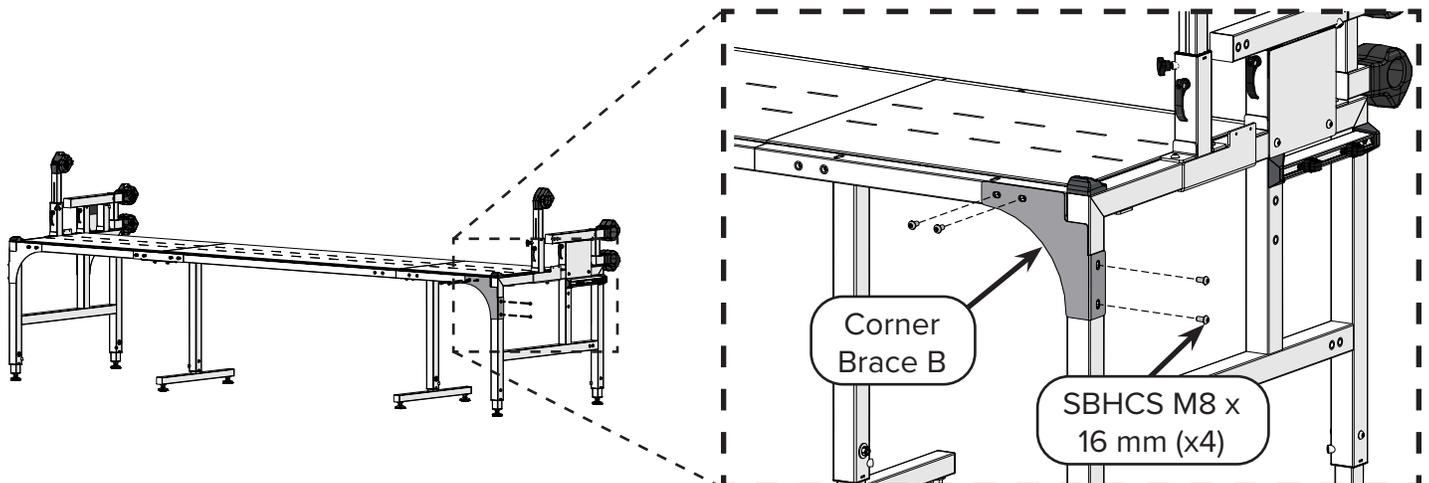


Instructions

The braces help support the table and make the frame sturdier.

Take the following steps to attach and tighten the braces to the frame:

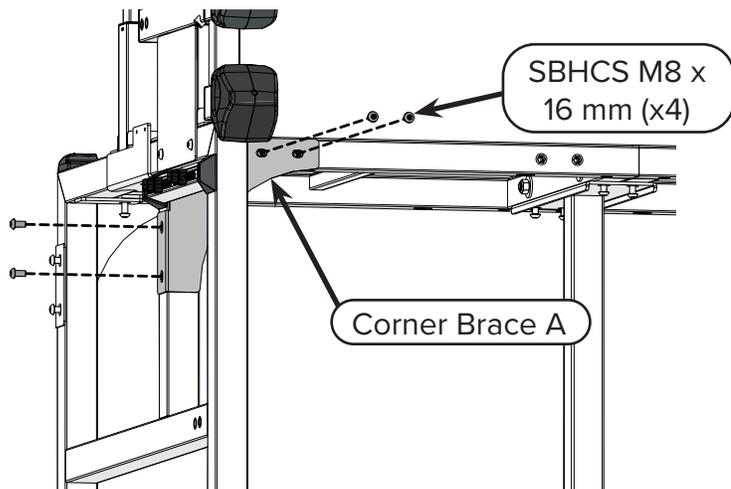
- 1 Loosely attach **corner brace B** to the back-left corner of the frame using four **M8 x 16 mm SBHCS** and the 5 mm Allen wrench. Do not tighten the screws yet.



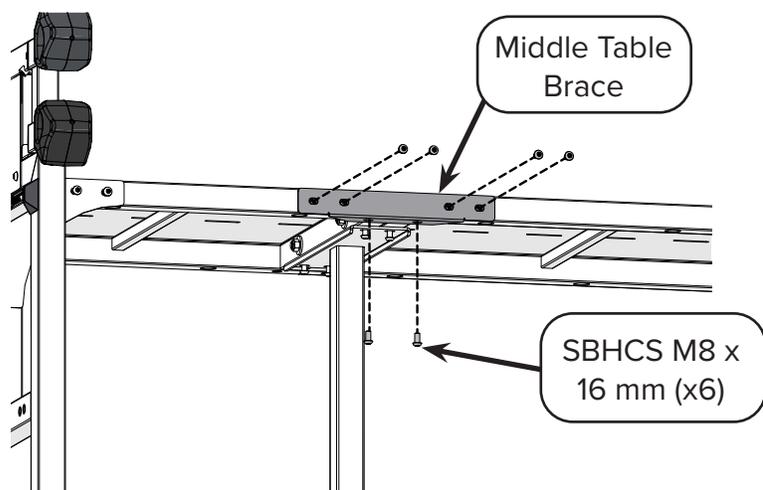
Completing the 8-Foot to 10-Foot Elite-Frame Upgrade

Task 4 - Attaching the Braces (continued)

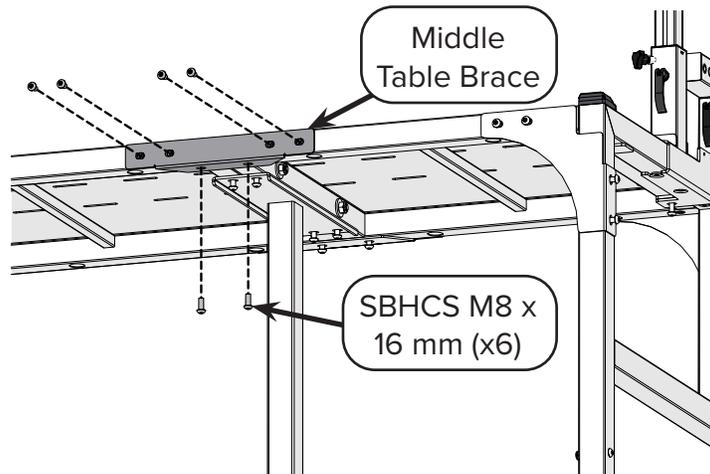
- 2 Loosely attach **corner brace A** to the front-left corner of the frame using four **M8 x 16 mm SBHCS** and the Allen wrench. Do not tighten the screws yet.



- 3 Attach a **middle table brace** loosely to the front of the table, where the 5-foot and 2-foot tables meet. Use six **M8 x 16 mm SBHCS** and the Allen wrench. Do not tighten the screws yet.



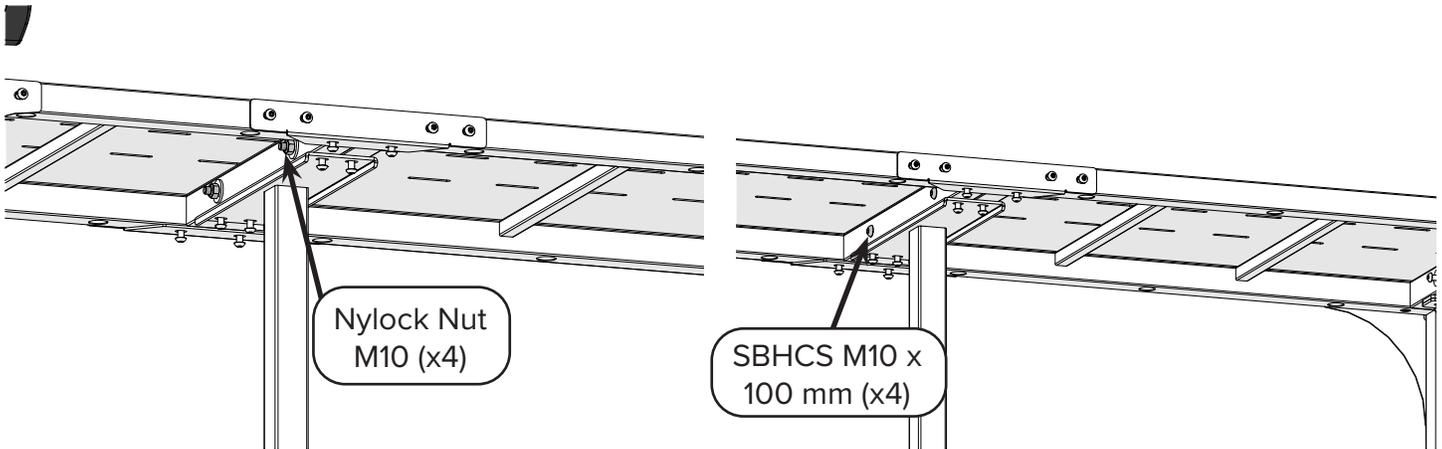
- 4 Attach a **middle table brace** loosely to the back of the frame, where the 5-foot and 2-foot tables meet. Use six **M8 x 16 mm SBHCS** and the Allen wrench. Do not tighten the screws yet.



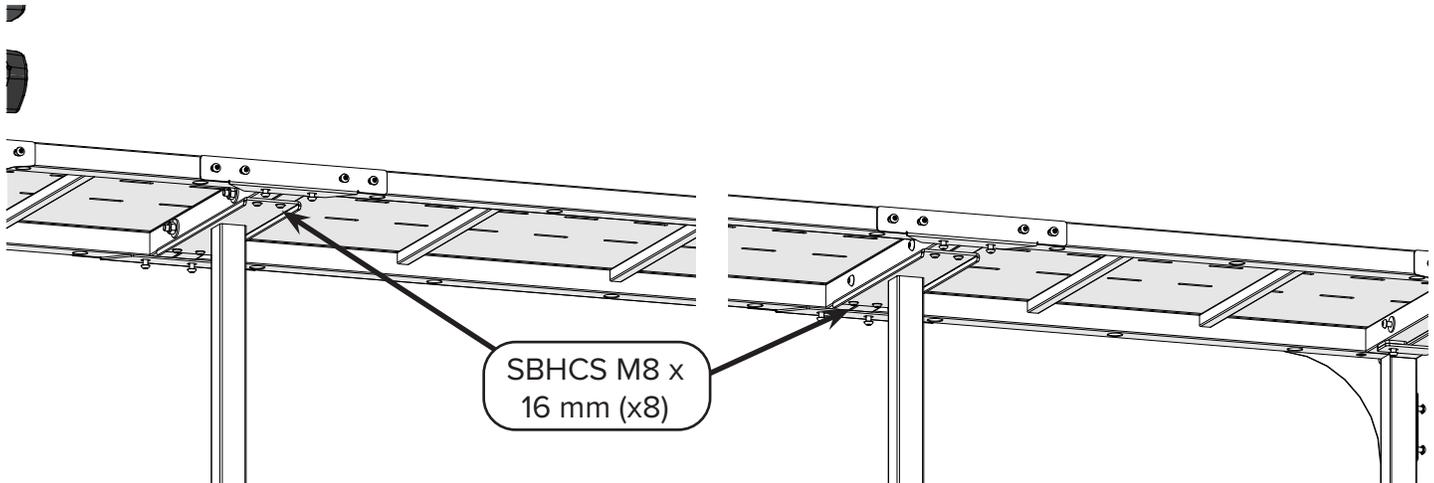
Completing the 8-Foot to 10-Foot Elite-Frame Upgrade

Task 4 - Attaching the Braces (continued)

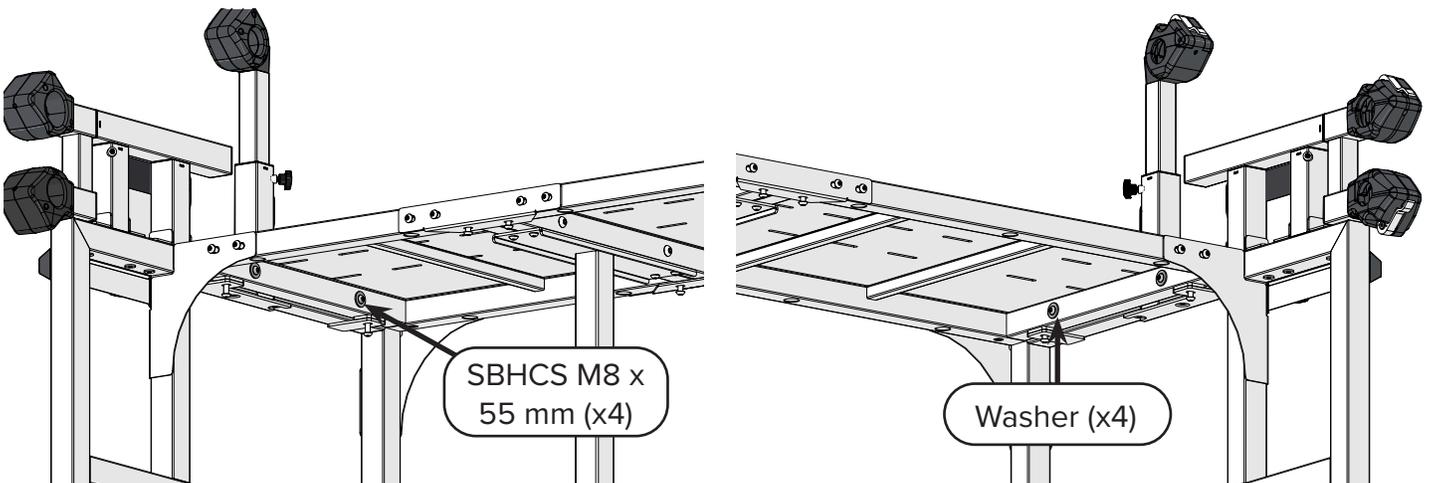
- 5 With the 17 mm open-end wrench and the 6 mm Allen wrench, tighten the four **M10 x 100 mm SBHCS** and four **M10 nylock nuts** that you left loose. These items are located just above the middle legs, where the 5-foot table meets the 2-foot and 3-foot tables.



- 6 With the 5 mm Allen wrench, tighten the four **M8 x 16 mm SBHCS** you left loose on each of the middle legs.



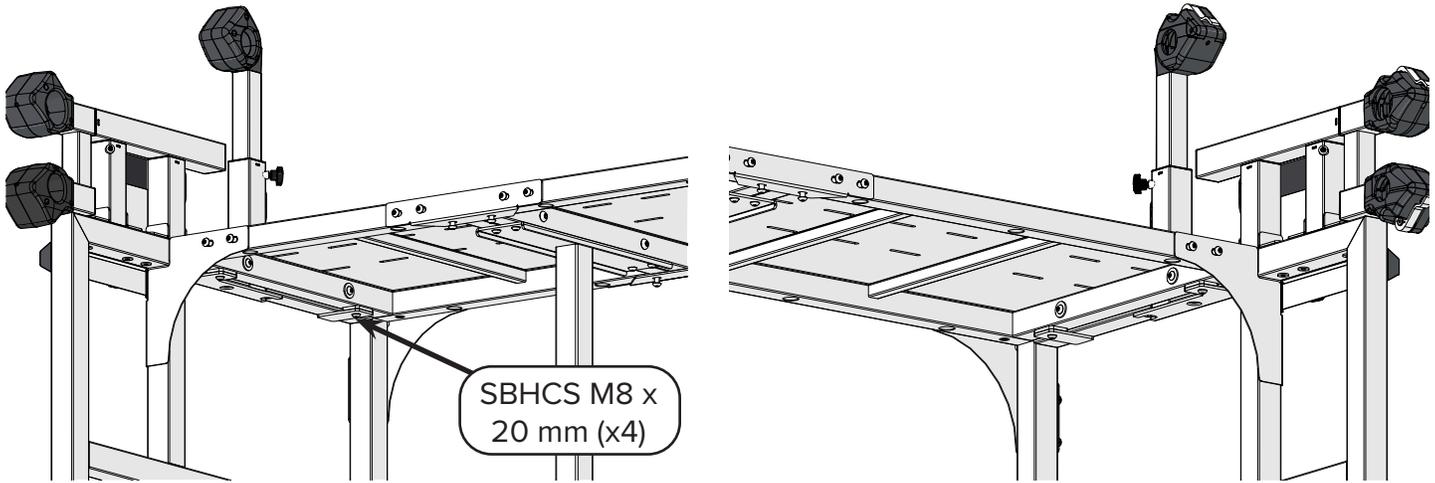
- 7 With the Allen wrench, tighten the two **M8 x 55 mm SBHCS** you left loose on each side of the frame, on the underside of the tables (they have **washers** with them).



Completing the 8-Foot to 10-Foot Elite-Frame Upgrade

Task 4 - Attaching the Braces (continued)

- 8 With the Allen wrench, tighten the two **M8 x 20 mm SBHCS** you left loose under the tables on the left and right legs.

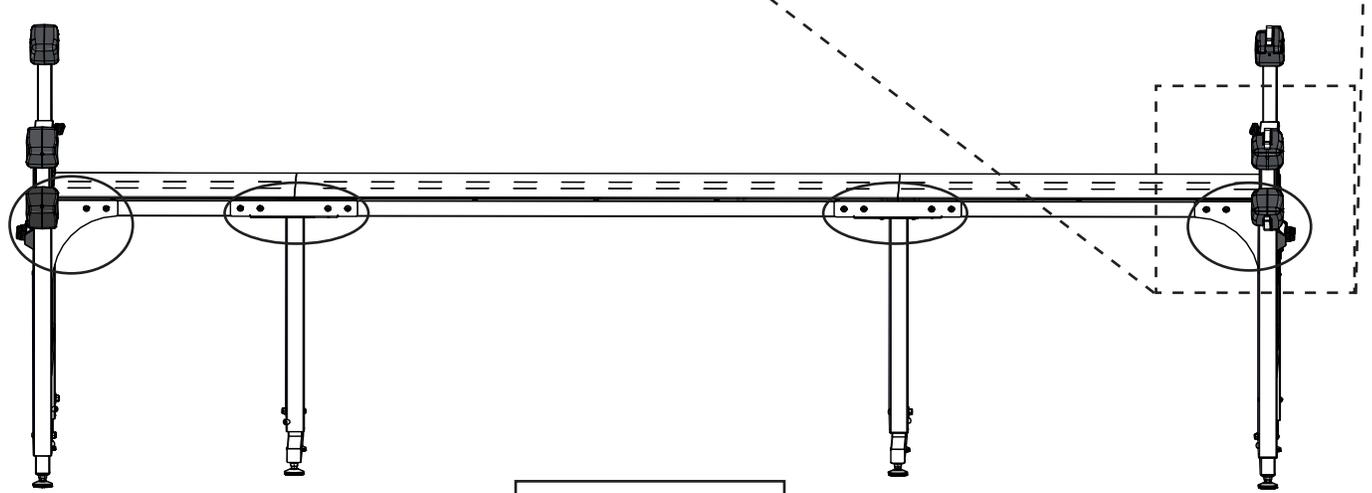
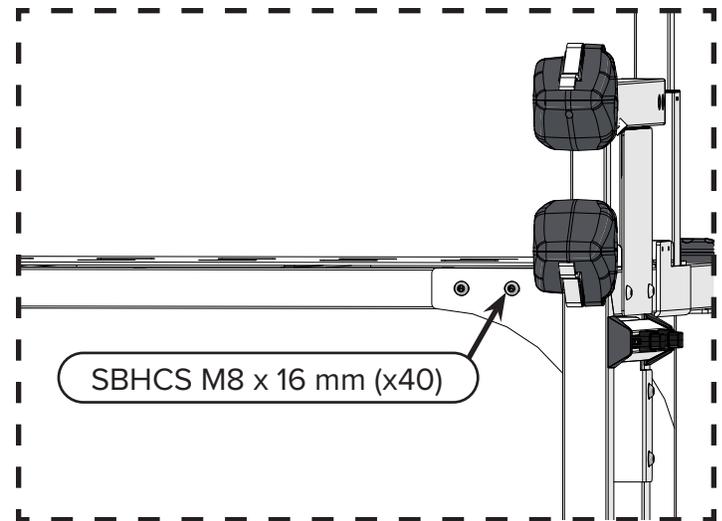


- 9 Use the Allen wrench to tighten all forty **M8 x 16 mm SBHCS** used to attach the braces.

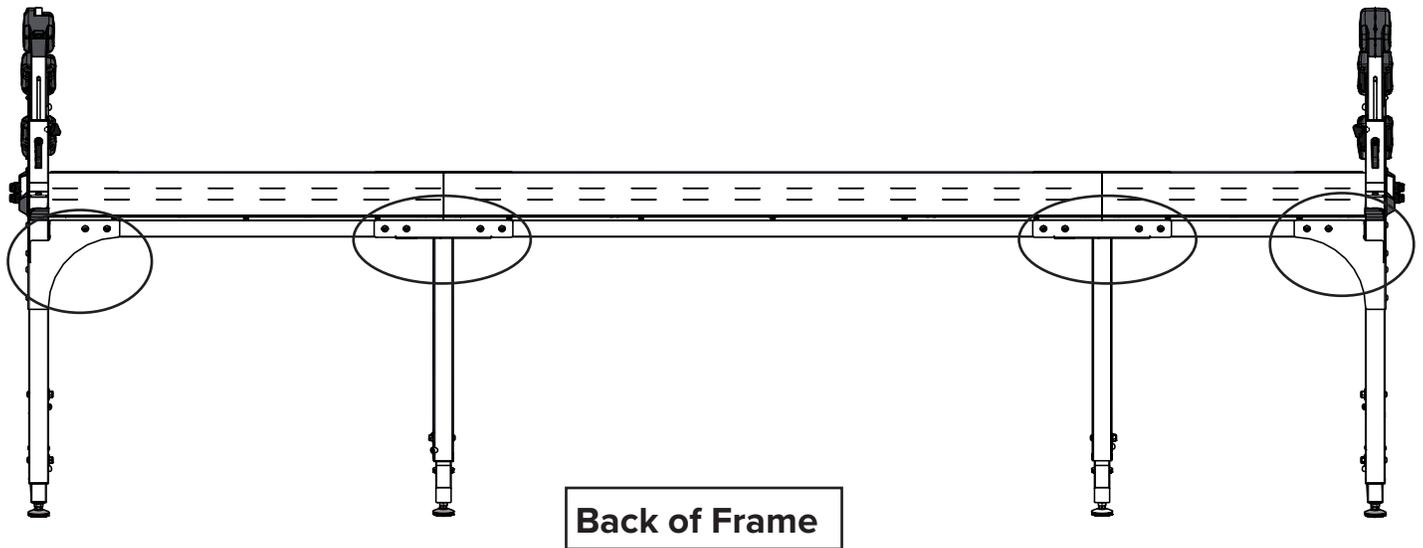
Note: There are eight braces to tighten:

• Back-right corner (4 screws)	• Front-right middle (6 screws)
• Back-right middle (6 screws)	• Front-left middle (6 screws)
• Back-left middle (6 screws)	• Front-left corner (4 screws)
• Back-left corner (4 screws)	
• Front-right corner (4 screws)	

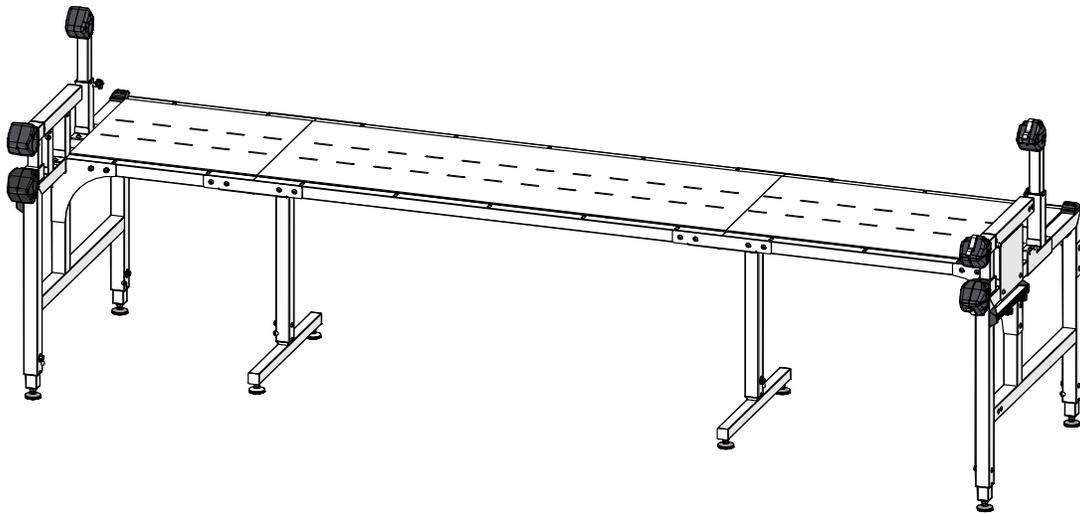
Total = 40 screws.
These locations are circled in the two images below.



Front of Frame



10 **Task Result:** The braces are all attached and the frame is sturdy.



Completing the 8-Foot to 10-Foot Elite-Frame Upgrade

Congratulations! You have upgraded to the 10-Foot Evolution Elite-Frame.

Now, use the instructions in the Evolution Elite-Frame manual that came with your original frame to fully assemble your upgraded frame. Start with Task 7, where you'll be attaching and aligning the tracks.

From this point on, the assembly process is nearly the same as if you are assembling the 8-Foot Evolution Elite-Frame again. However, pay attention to these small changes:

- Sometimes the instructions in the Evolution Elite-Frame manual will indicate that the parts or tools to use are in boxes 1 or 2. For you, replace that with (*with orig frame*) as you will be using the pieces that came with your original frame instead.
- In task 7:
 - When the instructions talk about 8-foot tracks, you will be using the 10-foot tracks you just assembled.
 - In step 2, make sure you place the tracks on the tables so that the 3-foot section of the tracks is on the left and the 2-foot section of the tracks is on the right. You still need to make sure the lip on the tracks points inward.
 - You will be installing four extra connector bolts (for a total of 20) to connect the additional 2 feet of tracks and table together.
 - In step 6, you will need to pay attention to your channel lock. In the Evolution Elite-Frame instructions, it is assumed that you haven't installed the channel lock yet, but since you are upgrading, your channel lock is already installed. Therefore, make sure the channel lock is up and out of the way so that the bottom carriage can move freely across the frame while you are aligning the tracks.
- Skip installing the channel locks, as you have already done so.
- In task 10, where you'll be assembling the rails:
 - You'll also need the rail parts from box 7, including the 2-foot star rail, the 2-foot round rails (x2), the star rail coupler, and the rail coupler.
 - Add the 2-foot section of the rail to the 5-foot rail, and then repeat steps 2-4 to add the 3-foot section. You will need to rotate the rail to make sure the screw holes at the end of the 2-foot section point up before you install the 3-foot section.
- Make sure you put your machine back on your frame before you install the rails. The Elite-Frame instructions tell you to do that during channel lock installation, which you skipped.
- When you are instructed to assemble your hand wheel and attach it to the take-up rail (task 12), you can skip those steps, as your hand wheel is already put together and attached to the rail. Make sure you still follow the step to install the take-up rail on the frame.

Make sure you keep following the instructions in the Evolution Elite-Frame manual for positioning the rails correctly and leveling the frame.

Use Part Four of the Evolution Elite-Frame instruction manual to learn about your new frame, including putting your quilt on the frame.

Best of luck on your quilting journey!

Note: If your original frame is the Evolution Hoop-Frame, then these instructions don't apply to you. Go to "Taking Apart the Hoop Frame" on page 1 for the first set of instructions you need.

Completing the 10-Foot to 12-Foot Elite-Frame Upgrade

Progress Checkpoint

Before you begin assembling your frame, make sure:

- You purchased the 2-Foot Extension kit. You must have box 7. If you have other boxes in your upgrade kit, then you have purchased a different size upgrade. Go to "Welcome to Your Evolution Upgrade Kit" on page vi to determine what upgrade kit you have.
- You have taken apart the 10-Foot Evolution Elite-Frame, as instructed in "Preparing to Upgrade An Elite-Frame" on page 82.

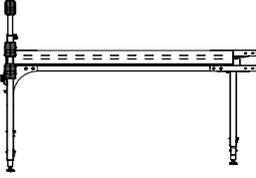
Task 1 - Setting the Height of the Middle Leg.....	124
Task 2 - Assembling the Tracks	127
Task 3 - Installing the Table.....	132
Task 4 - Attaching the Braces	135

Completing the 10-Foot to 12-Foot Elite-Frame Upgrade

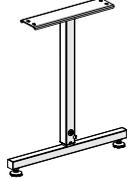
Task 1 - Setting the Height of the Middle Leg

Parts & Tools Needed

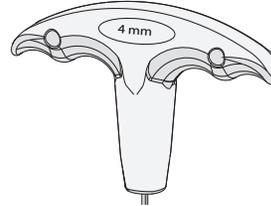
Middle Leg
(with orig frame)



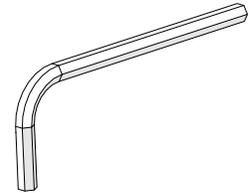
Middle Leg
(Box 7)



T-handle Allen Wrench
4 mm (with orig frame)



Allen Wrench 5 mm
(with orig frame)



Open-End Wrench
10 mm and 13 mm
(with orig frame)

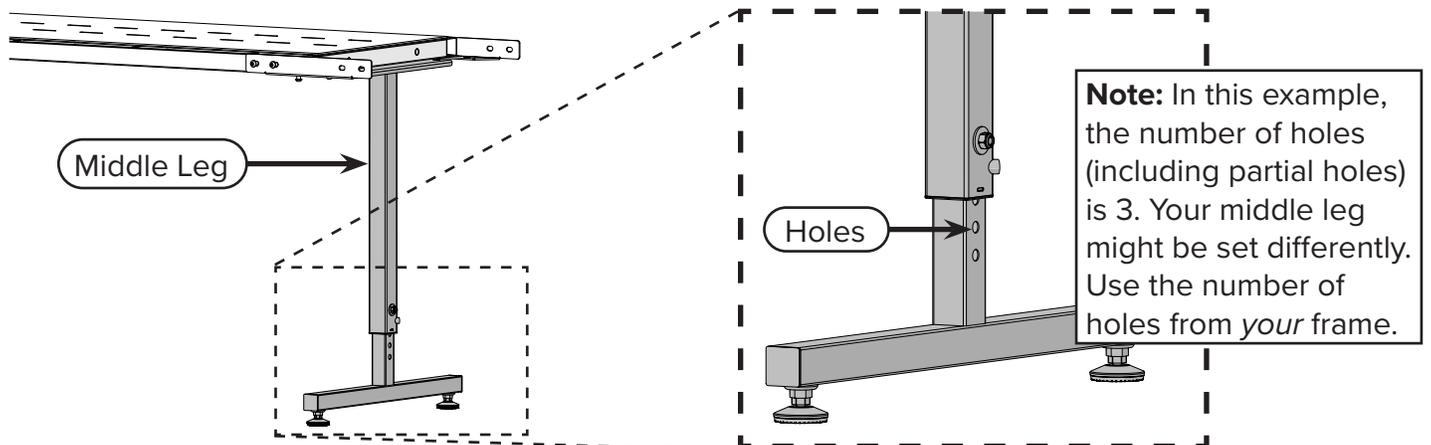


Instructions

Just as you needed to set the height of the legs when you assembled the original frame (so that the height would be comfortable during prolonged use), you must set the height of the middle leg before you put the frame together.

Do the following to set the height of the new middle leg:

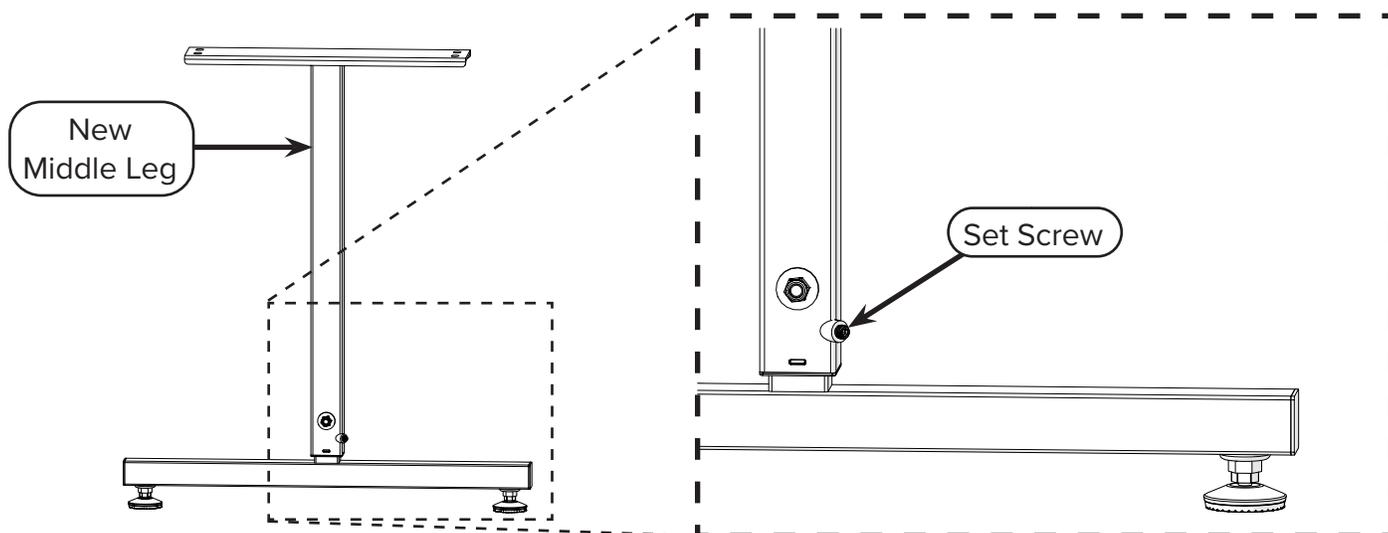
- 1 Locate the **middle leg** that is attached to the frame (the one that is supporting half of the frame right now), and examine it, noting how many **holes** you can see on the leg, including partial holes. Remember or write down the number.



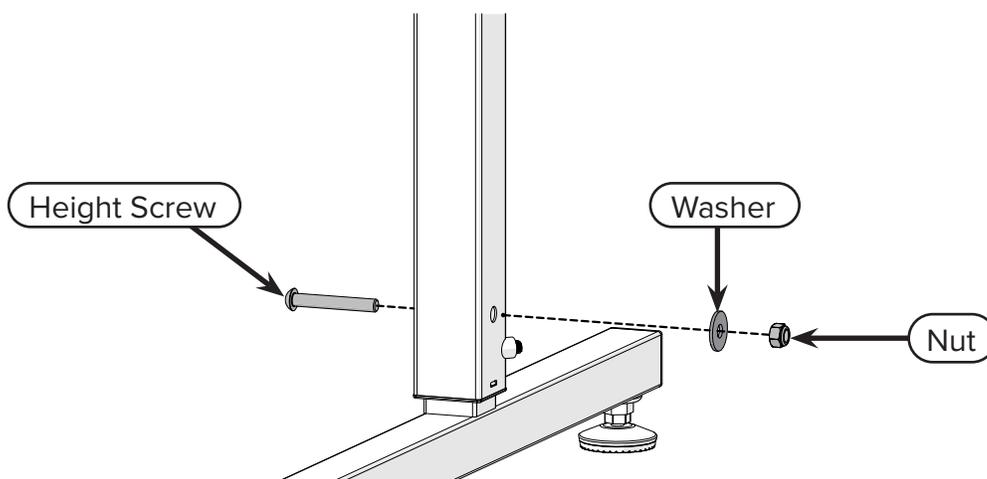
Completing the 10-Foot to 12-Foot Elite-Frame Upgrade

Task 1 - Setting the Height of the Middle Leg (continued)

- 2 Loosen the **set screw** on the **new middle leg** with the 4 mm Allen wrench.

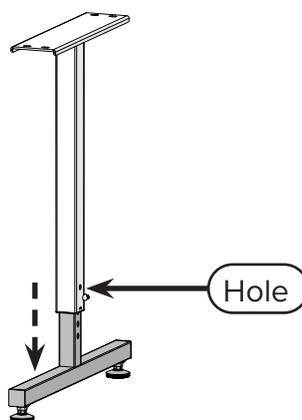


- 3 Remove the **height screw**, **washer**, and **nut** from the middle leg with the 5 mm Allen wrench and the 13 mm open-end wrench.



- 4 Pull out the bottom part of the middle leg until you can see the same number of **holes** as the other three legs, using the number of holes you noted on the other middle leg.

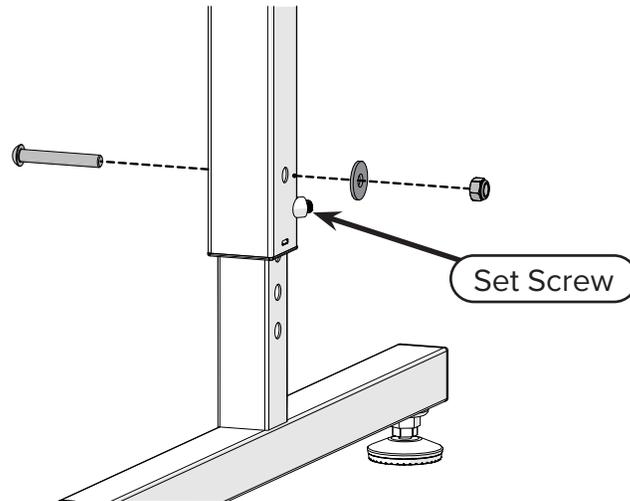
Note: In this example, the height has been set so that 3 holes are visible under the leg. Your frame height might be different. Use the height of *your* frame.



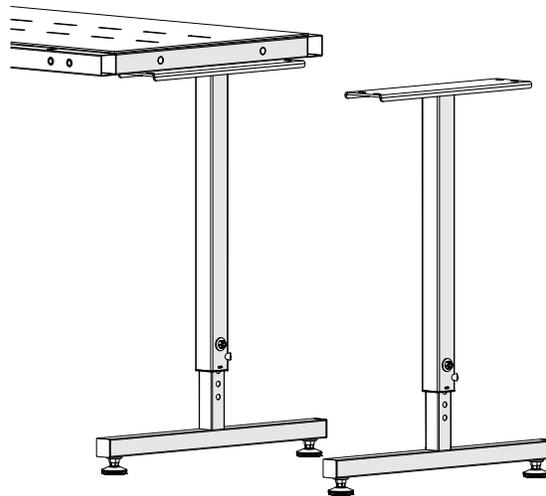
Completing the 10-Foot to 12-Foot Elite-Frame Upgrade

Task 1 - Setting the Height of the Middle Leg (continued)

- 5 Reinstall the height screw, washer, and nut, and tighten the **set screw**.



- 6 **Task Result:** The new middle leg is the same height as the other legs.



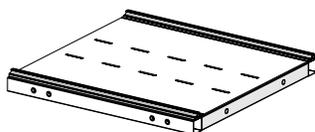
Task 2 - Assembling the Tracks

Parts & Tools Needed

10-ft Metal Tracks
(x2) (with orig frame,
removed earlier)



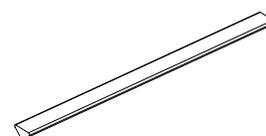
2-ft Table Assembly
(Box 7)



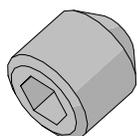
12-ft Plastic Track
(Box 7)



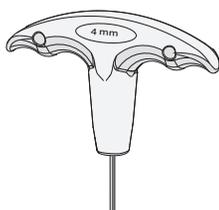
Track Support
Connector (x2)
(Box 7, Hardware)



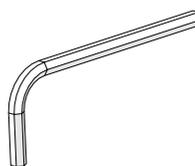
Socket CSS
M6 x 6 mm (x8)
(Box 7, Hardware)



T-handle Allen Wrench
4 mm



Allen Wrench 3 mm
(with orig frame)

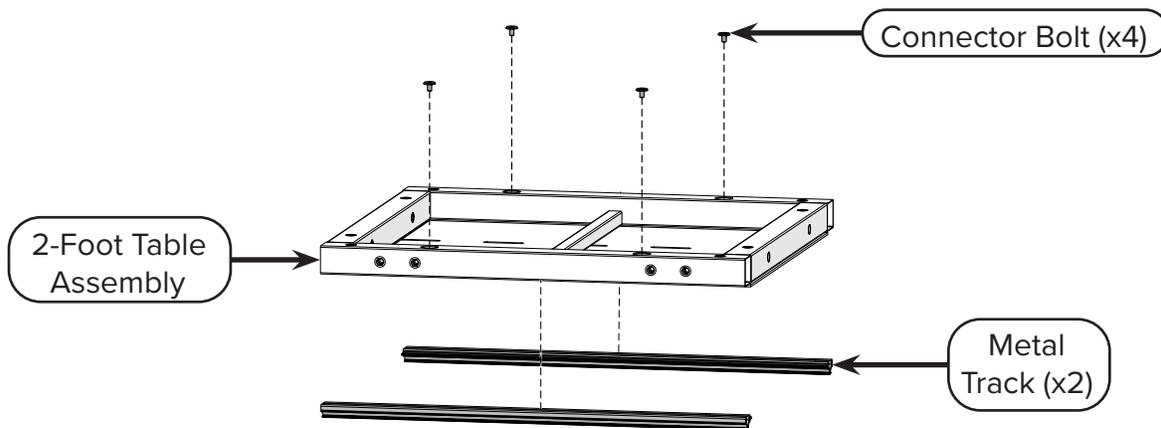


Instructions

To make the frame longer, you need to add more tracks to the ones you removed from the 10-foot frame. To protect the tracks during shipping, they are sent to you installed on the table assembly. However, for the optimal performance for your frame, you must partially take them apart and then reassemble the tracks.

Take the following steps to assemble the tracks:

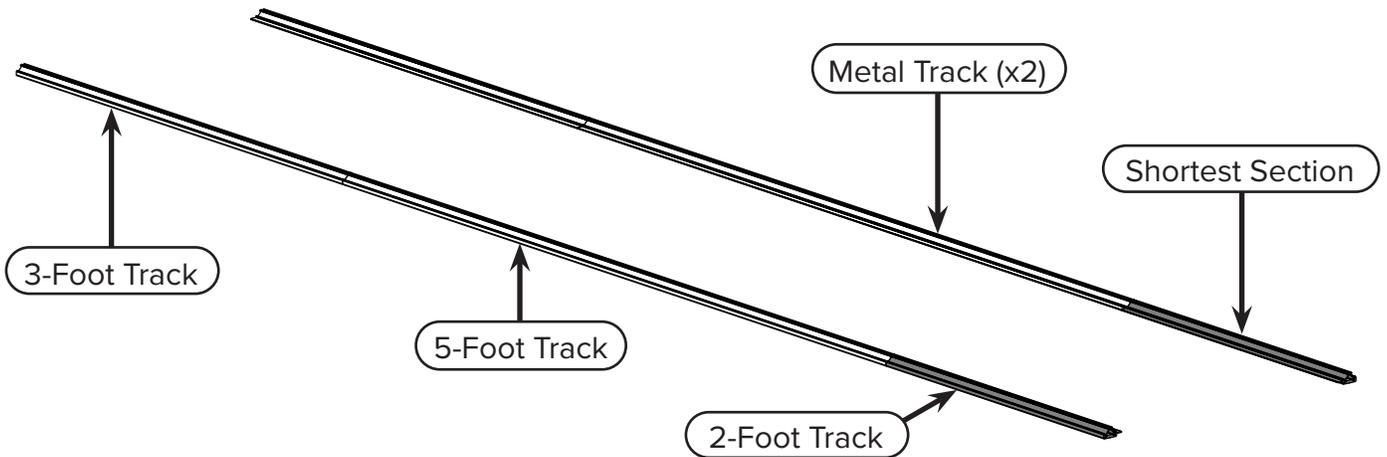
- 1 Remove the four **connector bolts** on the **2-foot table assembly** with the 4 mm Allen wrench. The two 2-foot **metal tracks** are now separated from the table.



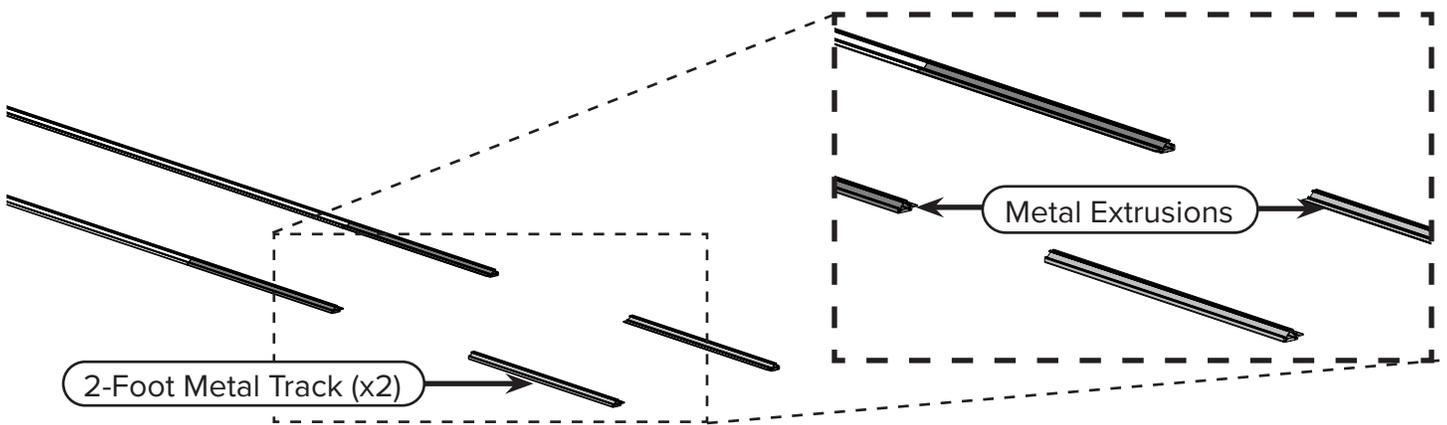
Completing the 10-Foot to 12-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

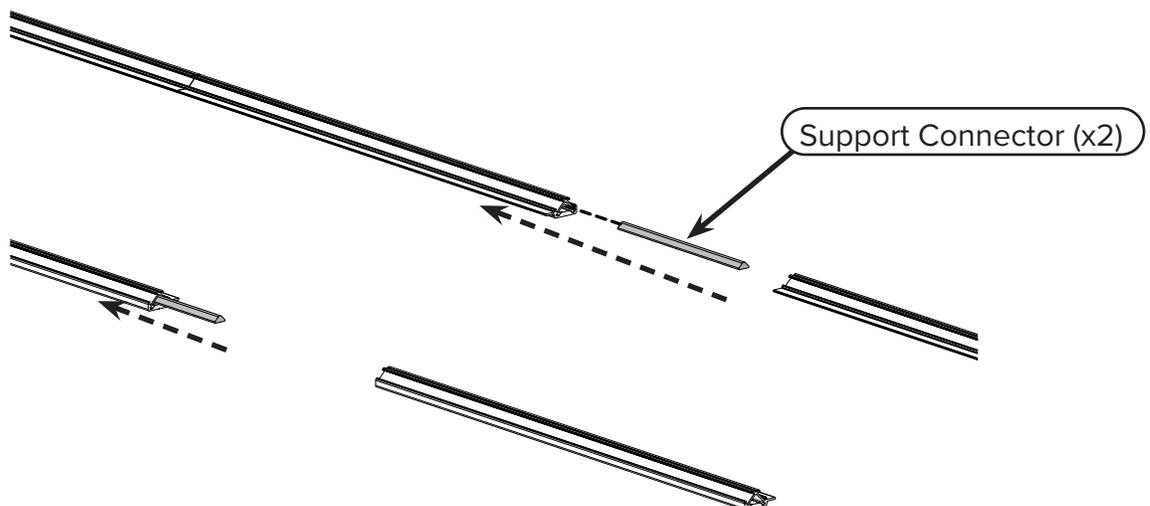
- 2 Locate the 10-foot **metal tracks** you removed earlier from the original frame. Examine them, and note the **shortest section** of them. (The tracks have a **3-foot**, **5-foot**, and **2-foot section**.)



- 3 Align the **2-foot metal tracks** to the right of the long metal tracks, next to the shortest (2-foot) section. Note the orientation of the **metal extrusions**, and make sure the extrusions face the inside of all tracks.



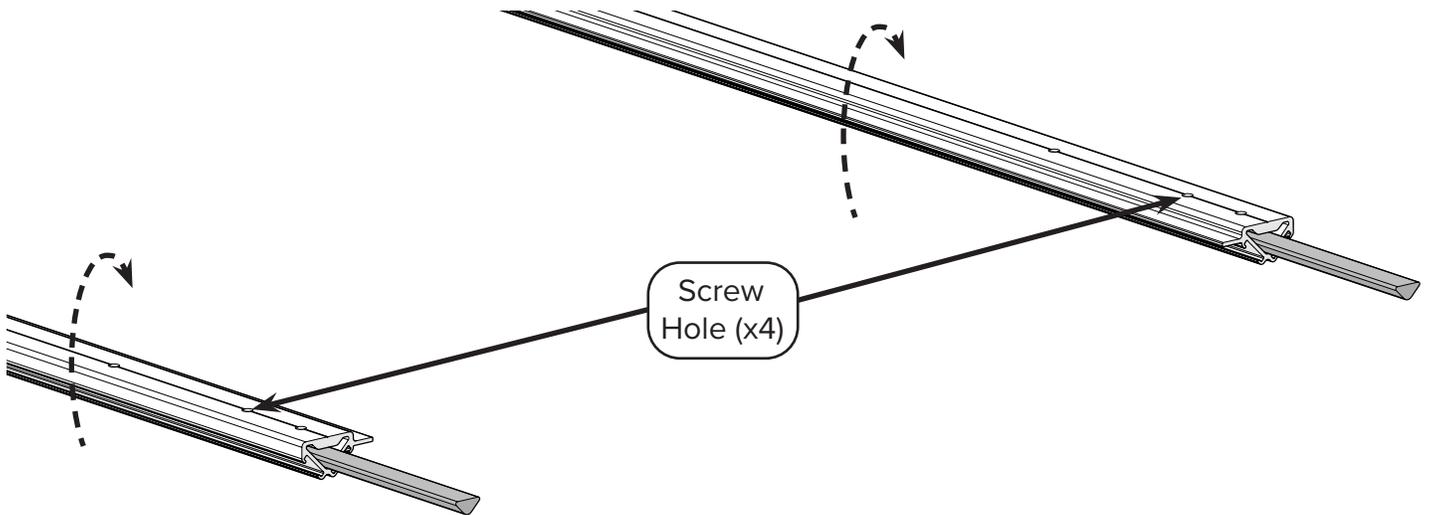
- 4 Place a **support connector** halfway into the end of the smallest section of the long metal tracks.



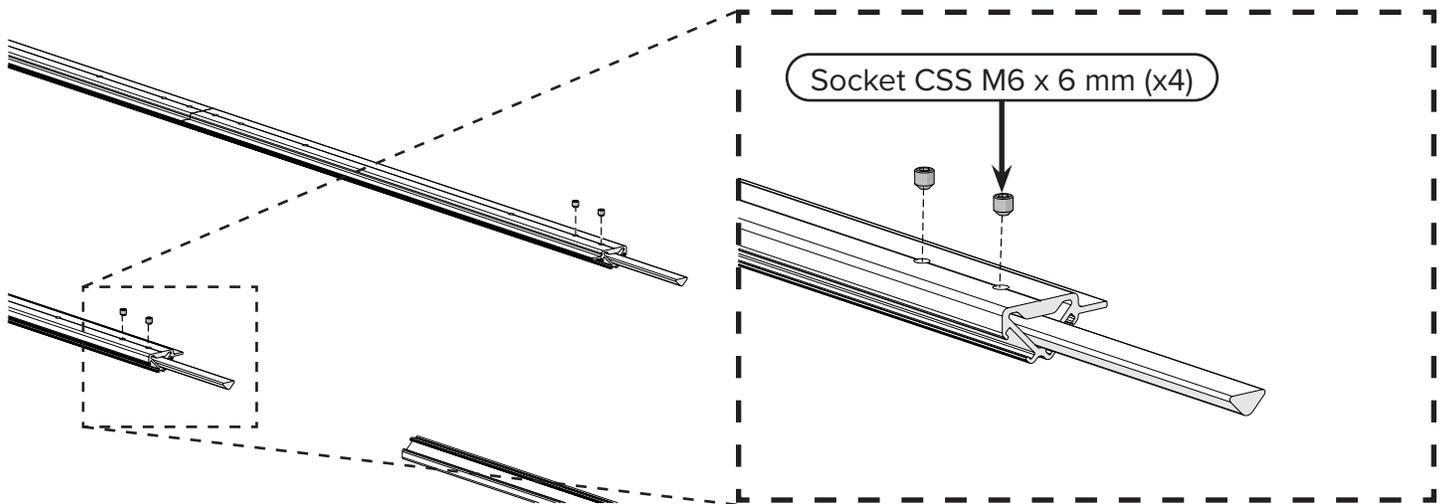
Completing the 10-Foot to 12-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

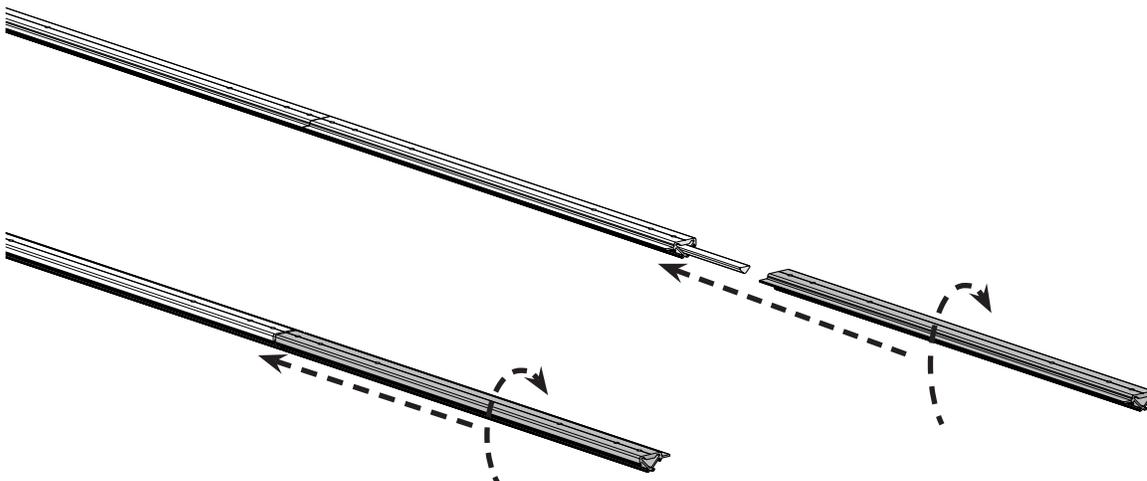
- 5 Carefully flip the long metal tracks to expose the **screw holes** at the bottom.



- 6 Use the 3 mm Allen wrench to install two **M6 x 6 mm Socket CSS** into each of the long metal tracks to hold the track support connectors in place.



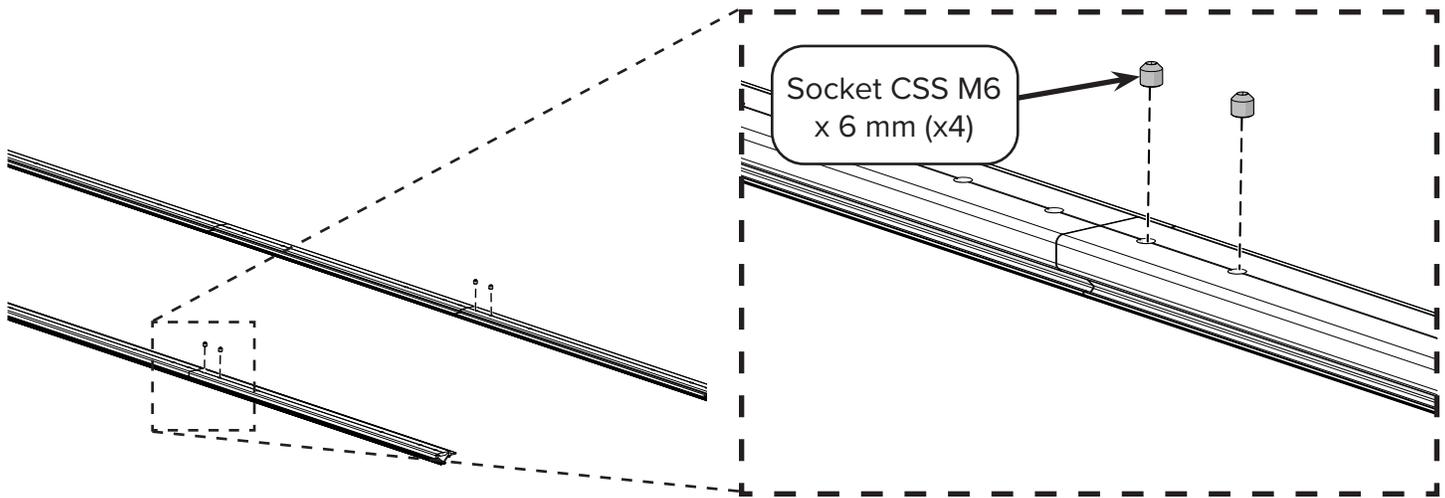
- 7 Flip the **2-foot metal tracks** over, and then slide them on the track support connectors.



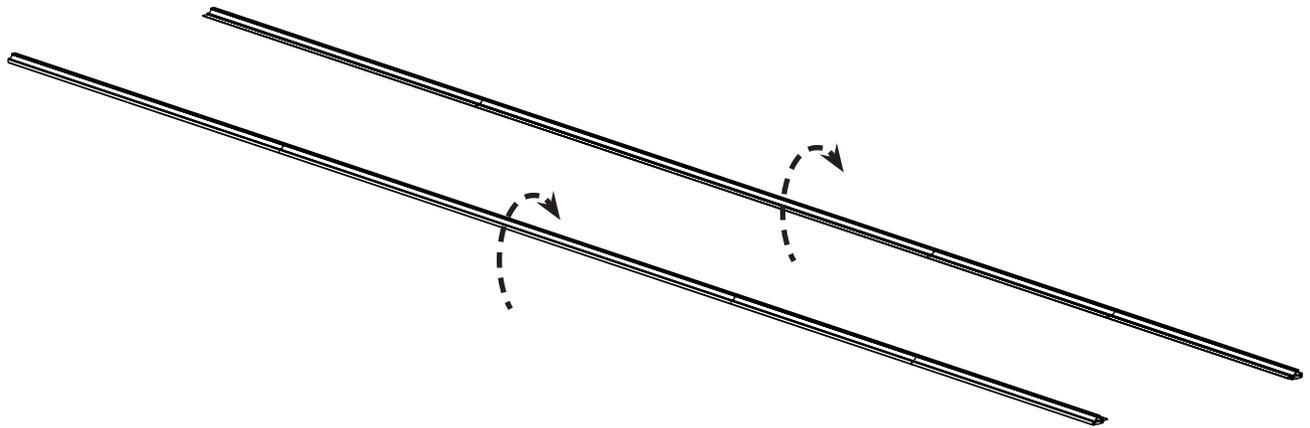
Completing the 10-Foot to 12-Foot Elite-Frame Upgrade

Task 2 - Assembling the Tracks (continued)

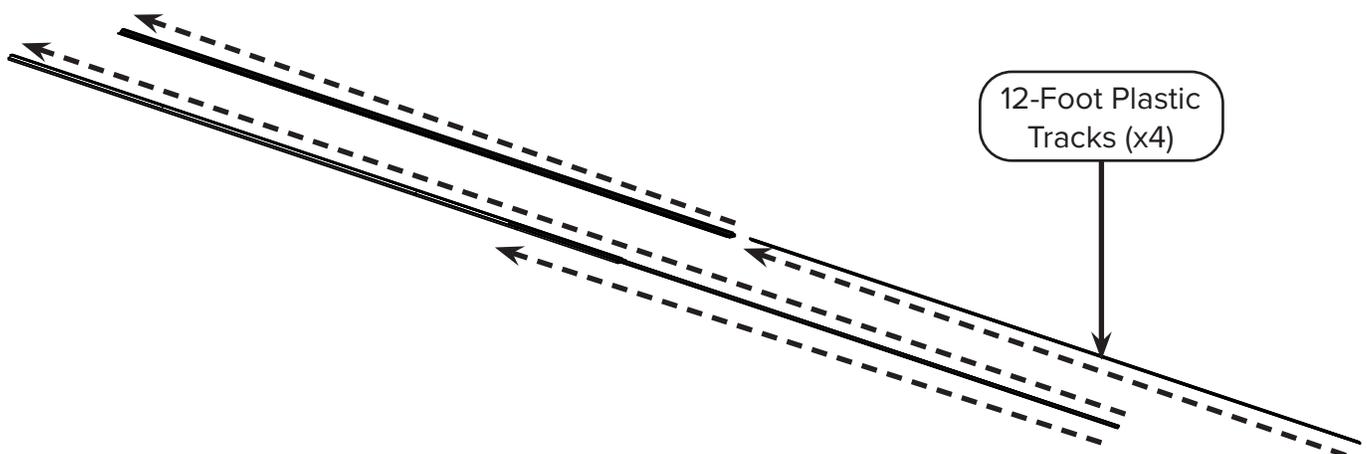
- 8 Use the 3 mm Allen wrench to install two **M6 x 6 mm Socket CSS** into each of the 2-foot metal tracks to secure them to the connectors.



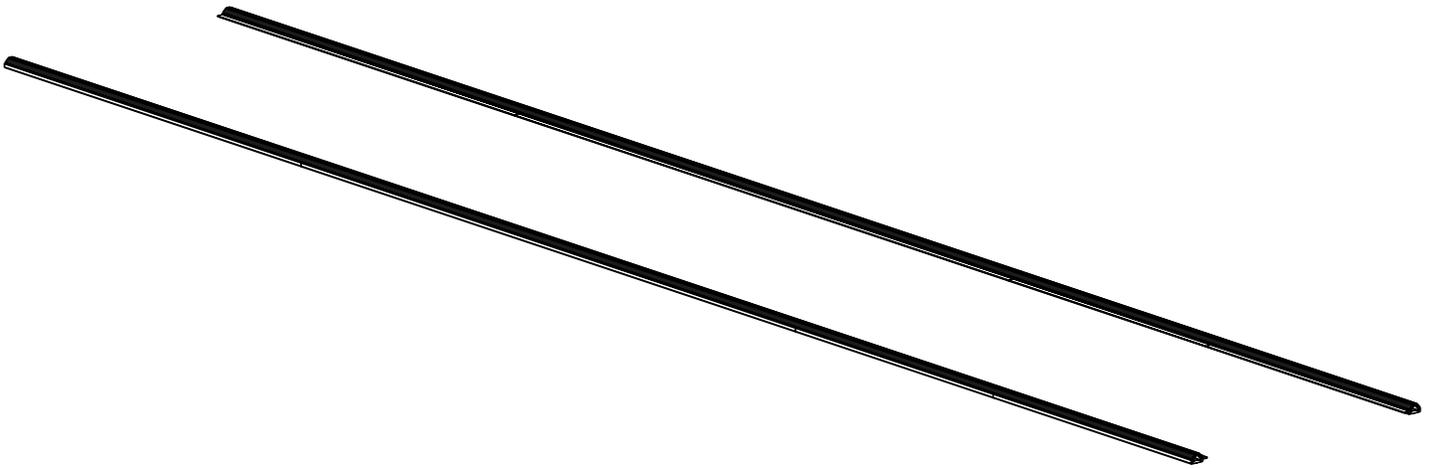
- 9 Flip the tracks over again.



- 10 Slide two **12-foot plastic tracks** into each metal track assembly.



- 11 **Task Result:** The 12-foot tracks are fully assembled. You'll put them on the frame later.

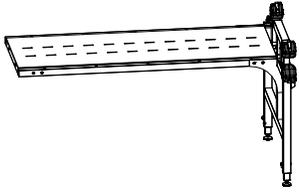


Completing the 10-Foot to 12-Foot Elite-Frame Upgrade

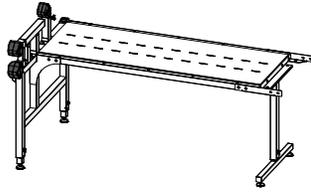
Task 3 - Installing the Table

Parts & Tools Needed

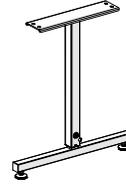
Right Leg with 5-ft Table



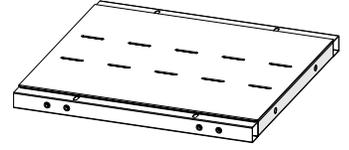
Left Leg with 5-ft Table and Middle Leg



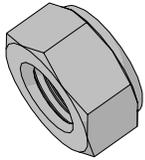
Middle Leg



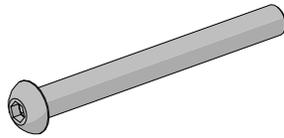
2-ft Table Assembly



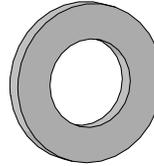
Nylock Nut M10
(x4, Box 7, Hardware & with orig frame)



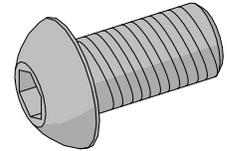
SBHCS M10 x 100 mm
(x4, Box 7, Hardware & with orig frame)



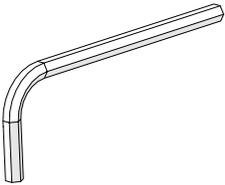
Washer M10
(x4, Box 7, Hardware & with orig frame)



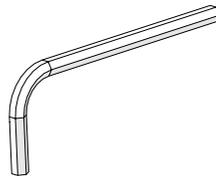
SBHCS M8 x 16 mm
(x6, Box 7, Hardware & with orig frame)



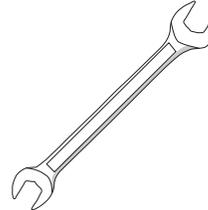
Allen Wrench 5 mm



Allen Wrench 6 mm



Open-End Wrench
14 mm and 17 mm

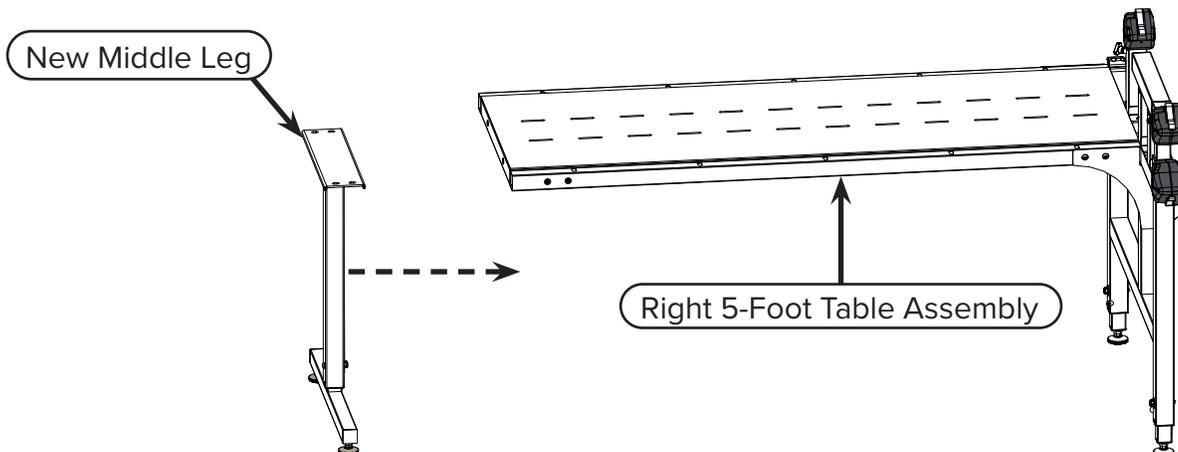


Instructions

Next you're going to assemble the new "bones" of the frame, adding the second middle leg and the 2-foot table to the frame.

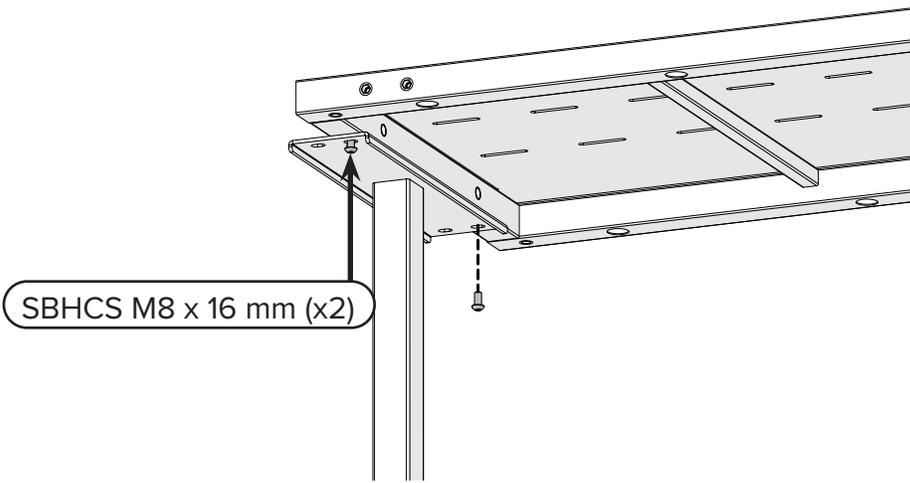
With help from a friend, take the following steps to install the 2-foot table:

- 1 With a friend's help, rest the end of the **right 5-foot table assembly** (the one you rested on the table when you took apart the frame) on the **new middle leg**.

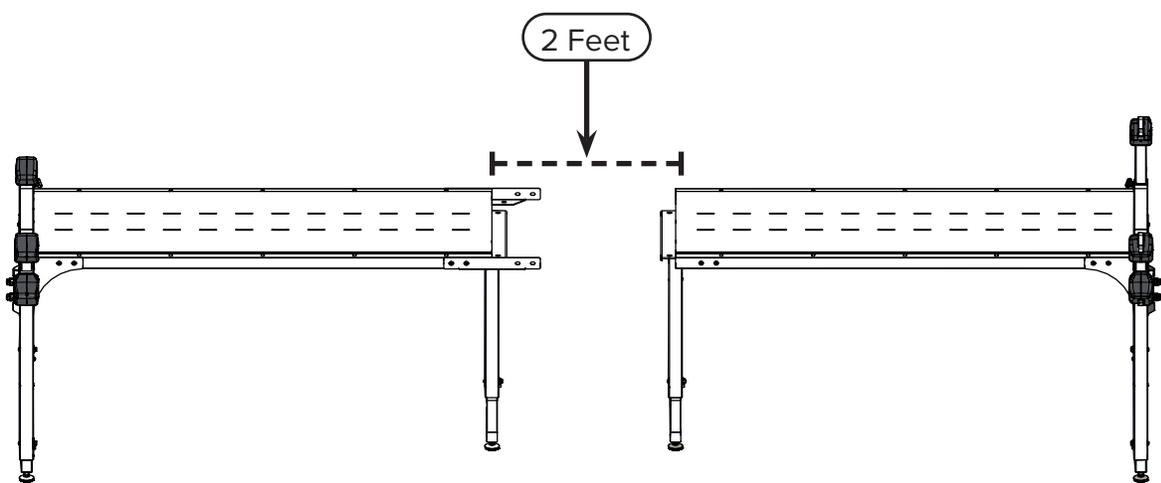


Task 3 - Installing the Table (continued)

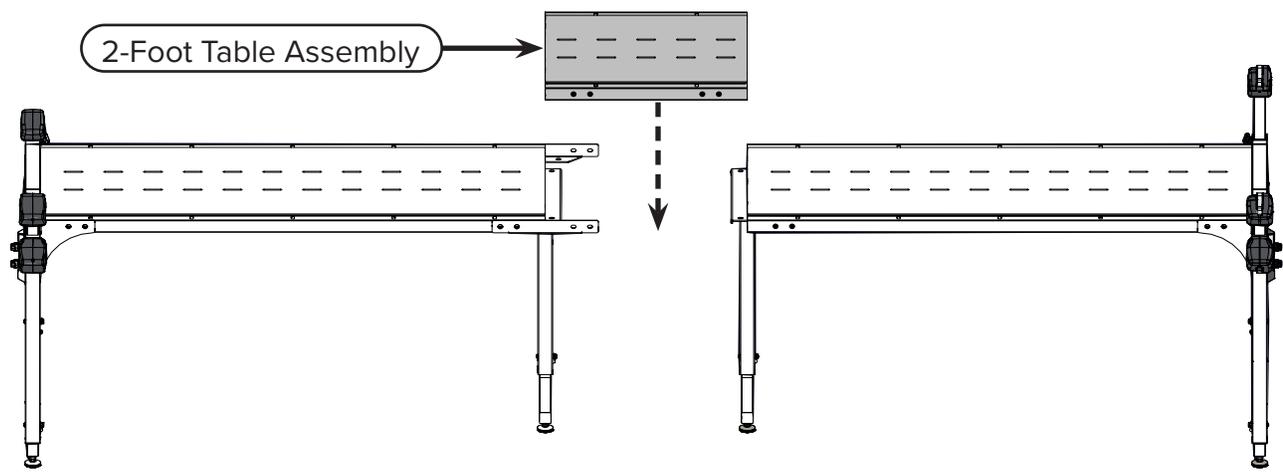
- 2 Loosely attach the middle leg to the 5-foot table, using two **M8 x 16 mm SBHCS** and the 5 mm Allen wrench.



- 3 Line up the two assembled tables so there is about **2 feet** of space between the middle legs.



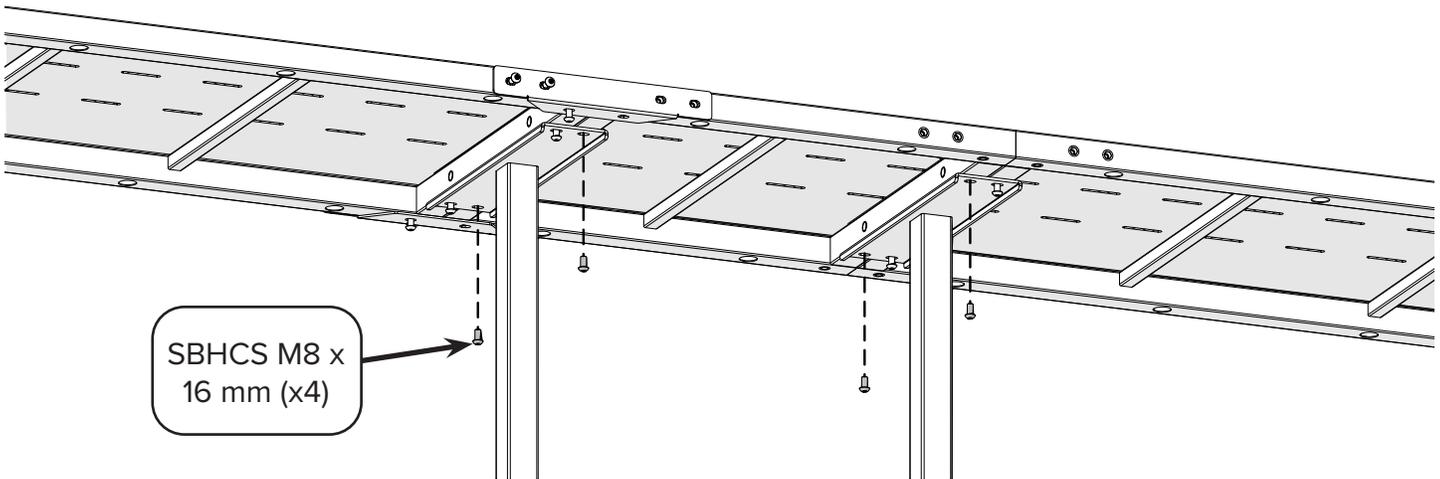
- 4 Place the **2-foot table assembly** onto the middle legs, between the two 5-foot table assemblies.



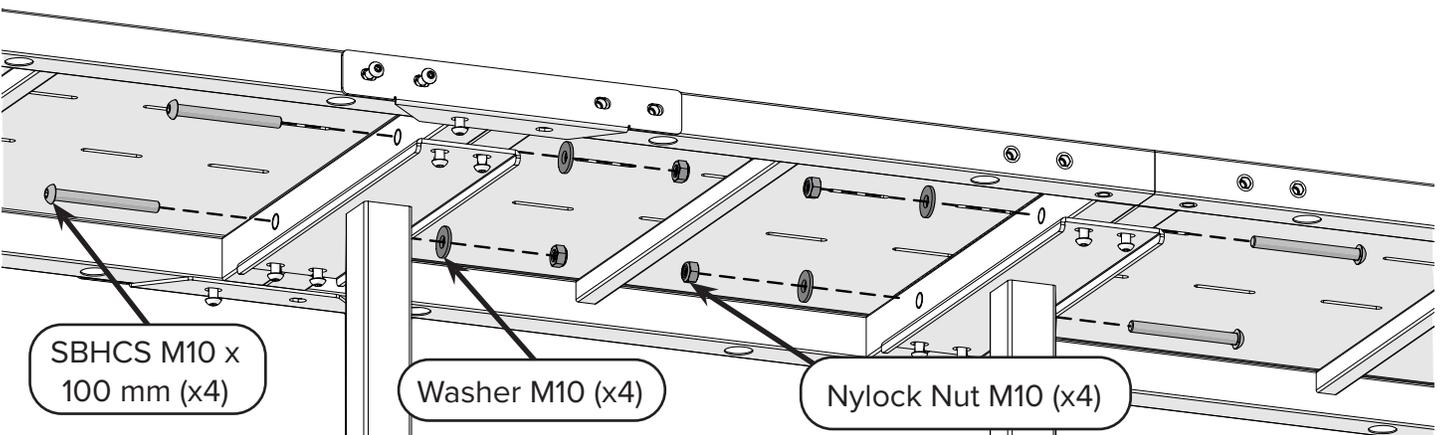
Completing the 10-Foot to 12-Foot Elite-Frame Upgrade

Task 3 - Installing the Table (continued)

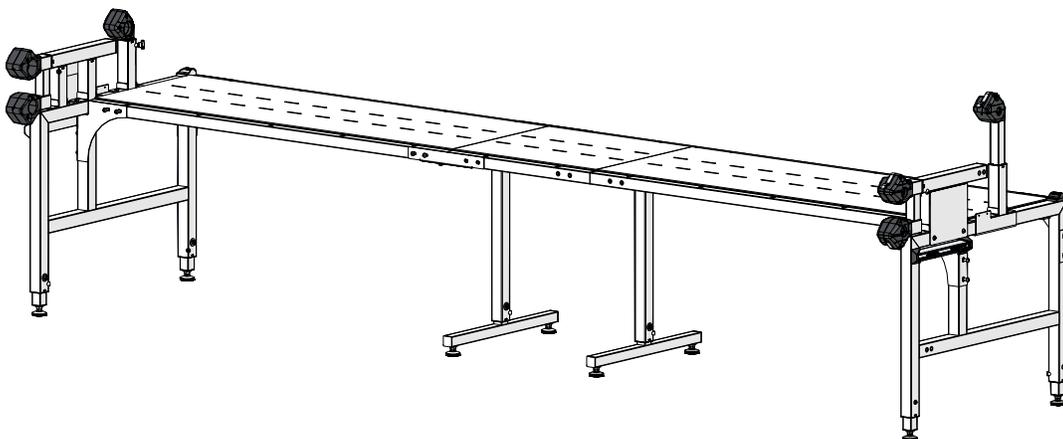
- 5 With four **M8 x 16 mm SBHCS** and the 5 mm Allen wrench, loosely attach the 2-foot table to the middle legs.



- 6 Attach the 5-foot tables to the 2-foot table with four **M10 x 100 mm SBHCS**, four **M10 washers**, and four **M10 nylock nuts**. Loosely connect these using the 6 mm Allen wrench and the 17 mm open-end wrench.



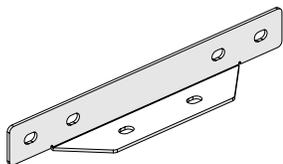
- 7 **Task Result:** The table sections have been *loosely* install onto the frame legs. All the screws holding the tables on the legs need to be loose, including the ones you loosened when you took apart the original frame. You'll tighten all these screws at the end of the next task.



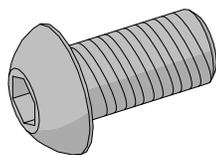
Task 4 - Attaching the Braces

Parts & Tools Needed

Middle Table Brace
(x2, Box 7)



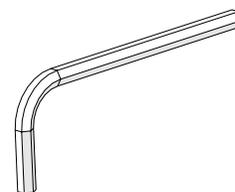
SBHCS M8 x 16 mm
(x18) (Box 7, Hardware
& with orig frame)



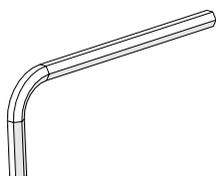
Open-End Wrench
14 mm and 17 mm



Allen Wrench 6 mm



Allen Wrench 5 mm

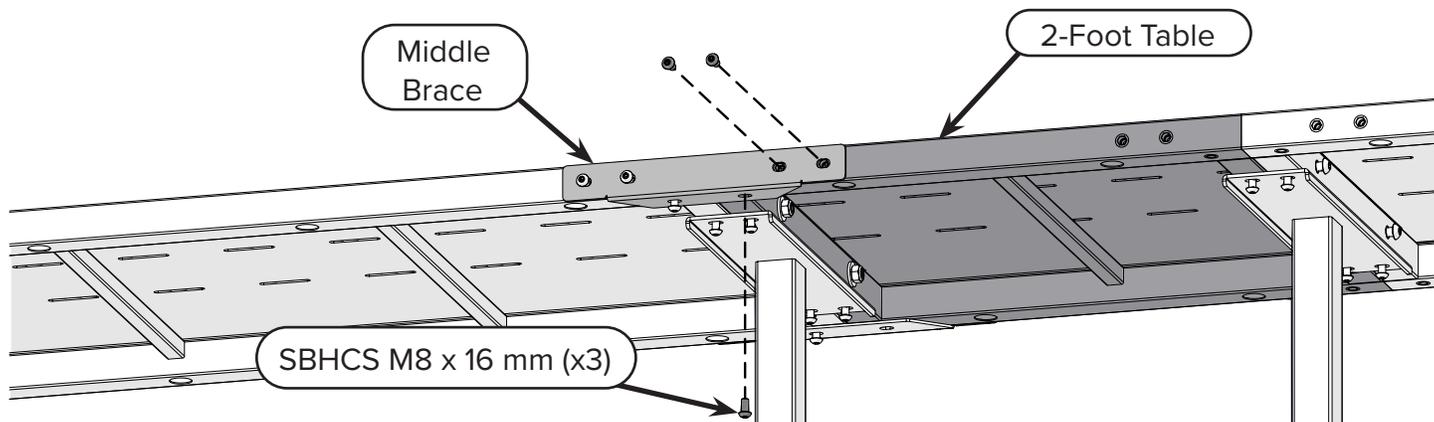


Instructions

The braces help support the table and make the frame sturdier.

Take the following steps to attach and tighten the braces to the frame:

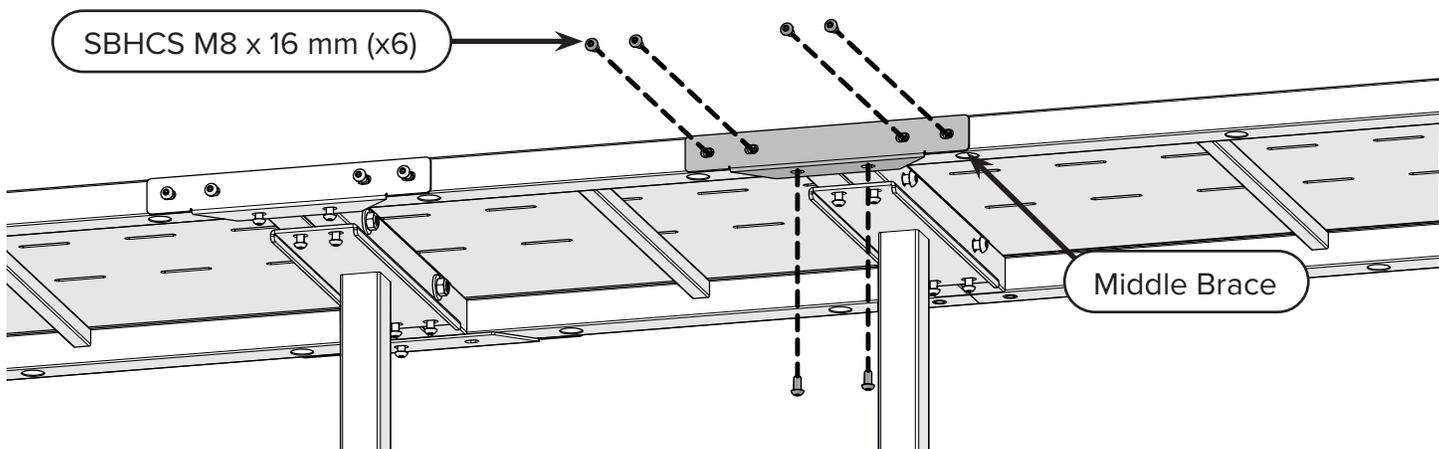
- 1 For the front **middle brace** on the left side (which is partially attached to the frame from when you took apart the original frame), *loosely* attach the right side of the brace to the **2-foot table**. Use three **M8 x 16 mm SBHCS** and the 5 mm Allen wrench.



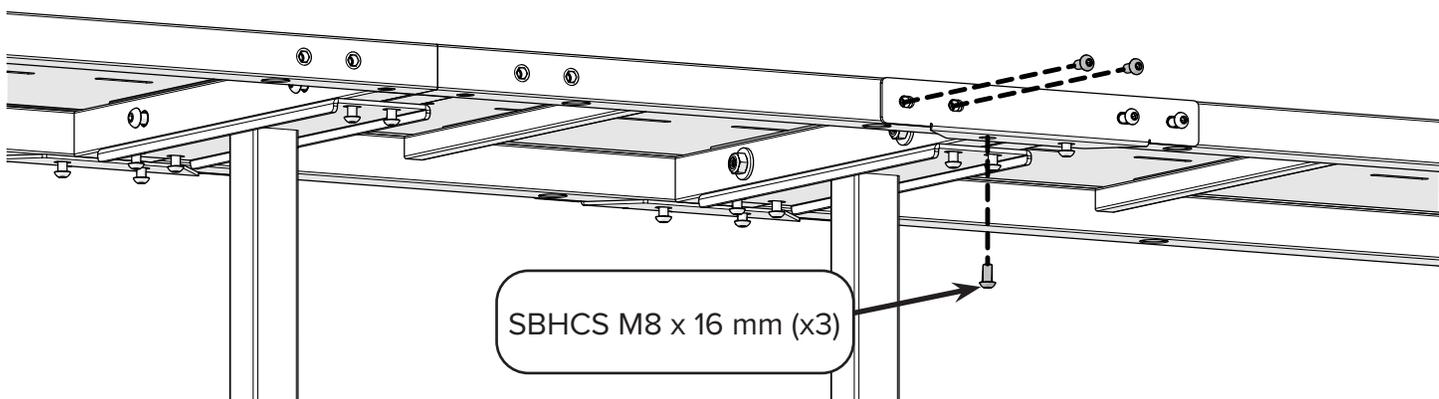
Completing the 10-Foot to 12-Foot Elite-Frame Upgrade

Task 4 - Attaching the Braces (continued)

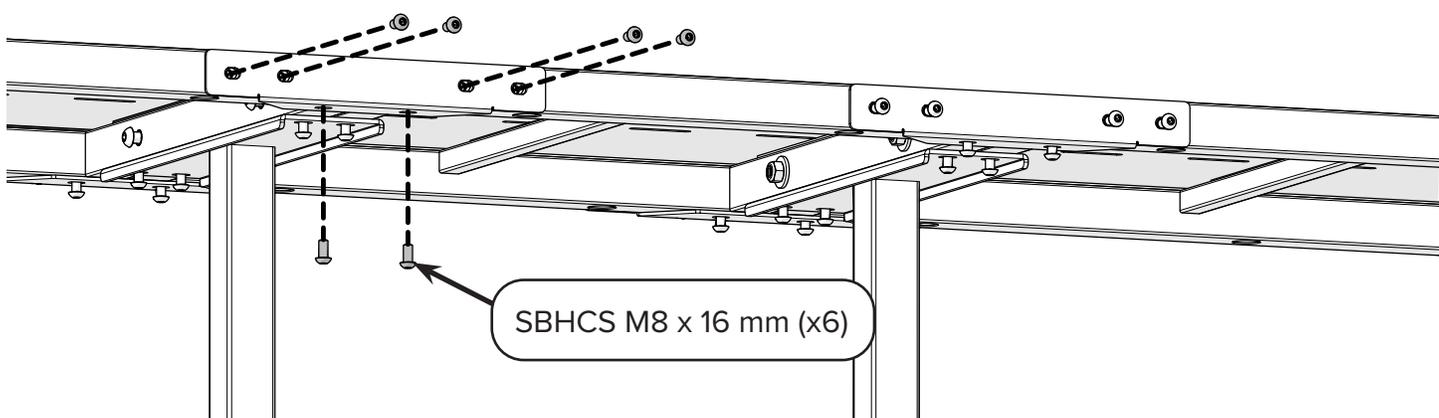
- 2 For the front **middle brace** on the right side, *loosely* attach the brace to the 2-foot and 5-foot tables using six **M8 x 16 mm SBHCS**.



- 3 For the back middle brace on the left side of the frame (your right as you face the back of the frame), *loosely* attach the right side of the brace to the 2-foot table. Use three **M8 x 16 mm SBHCS**.



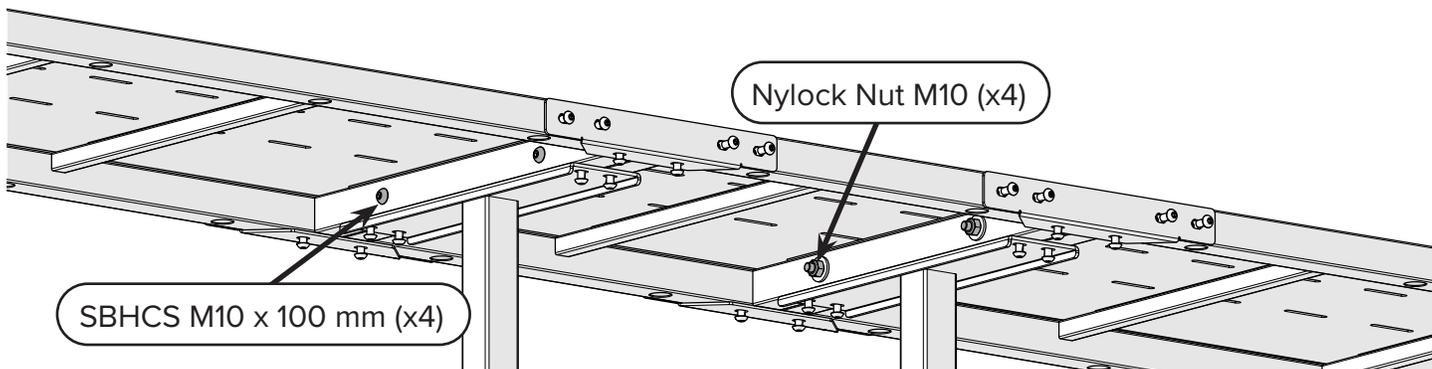
- 4 For the back middle brace on the right side, loosely attach the brace to the 2-foot and 5-foot table using six **M8 x 16 mm SBHCS**.



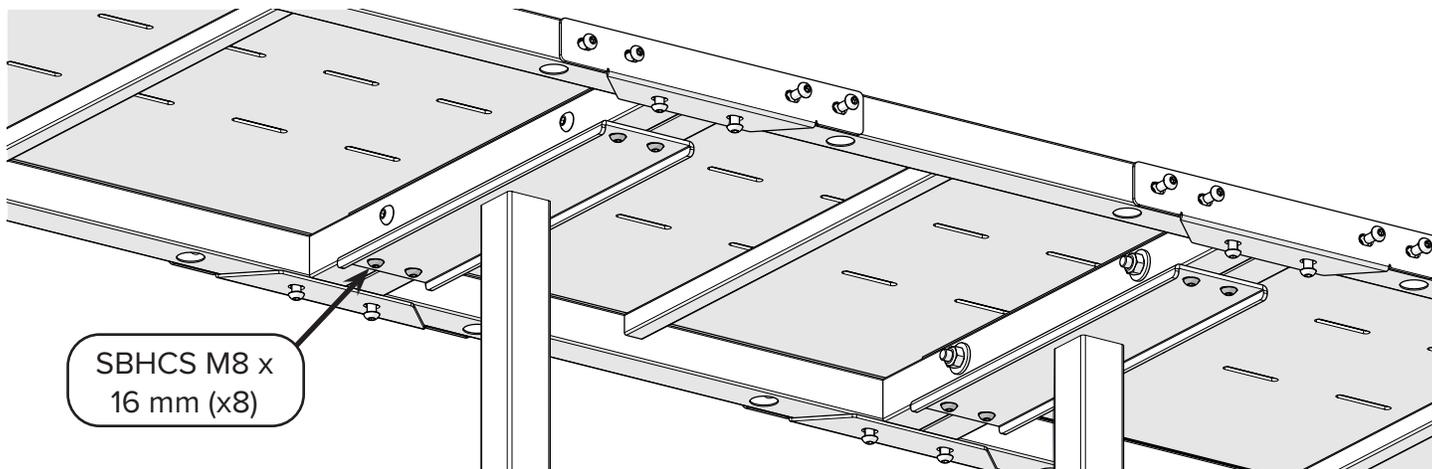
Completing the 10-Foot to 12-Foot Elite-Frame Upgrade

Task 4 - Attaching the Braces (continued)

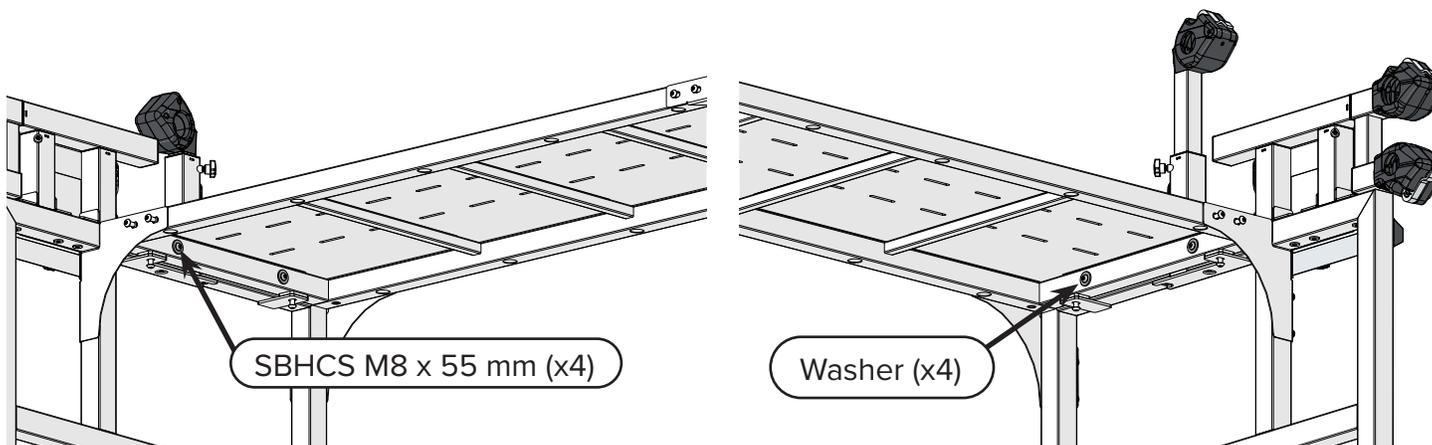
- 5 With the 17 mm open-end wrench and the 6 mm Allen wrench, tighten the four **M10 x 100 mm SBHCS** and the four **M10 nylock nuts** that you left loose. These items are located just above the two middle legs, where the 2-foot table meets each of the 5-foot tables.



- 6 With the 5 mm Allen wrench, tighten the four **M8 x 16 mm SBHCS** you left loose on each of the middle legs.



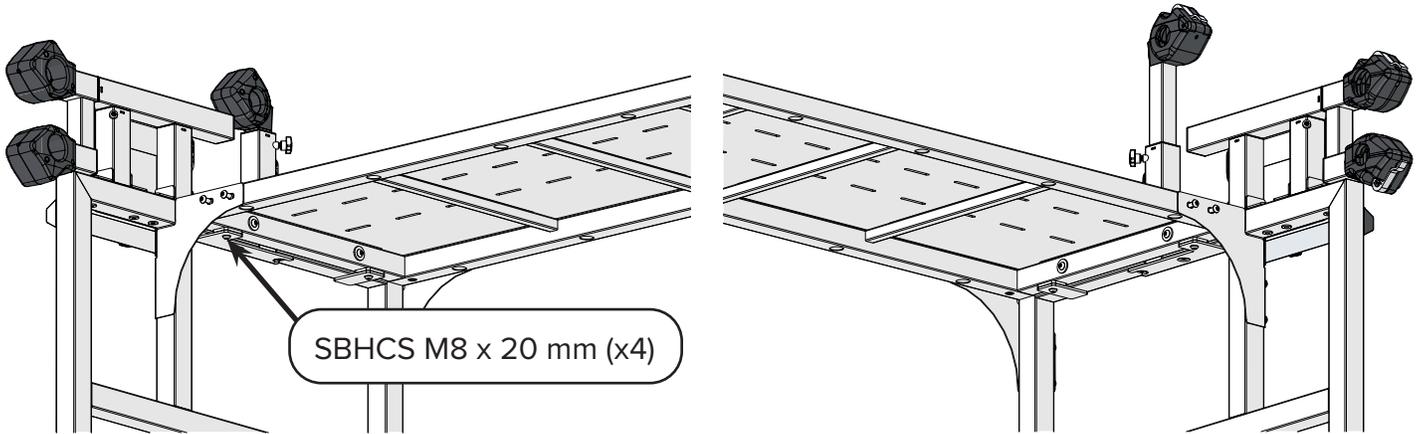
- 7 With the Allen wrench, tighten the two **M8 x 55 mm SBHCS** you left loose on the sides of the tables on the left and right legs (they have **washers** on them).



Completing the 10-Foot to 12-Foot Elite-Frame Upgrade

Task 4 - Attaching the Braces (continued)

8 With the Allen wrench, tighten the two **M8 x 20 mm SBHCS** you left loose under each 5-foot table on the underside near the legs.

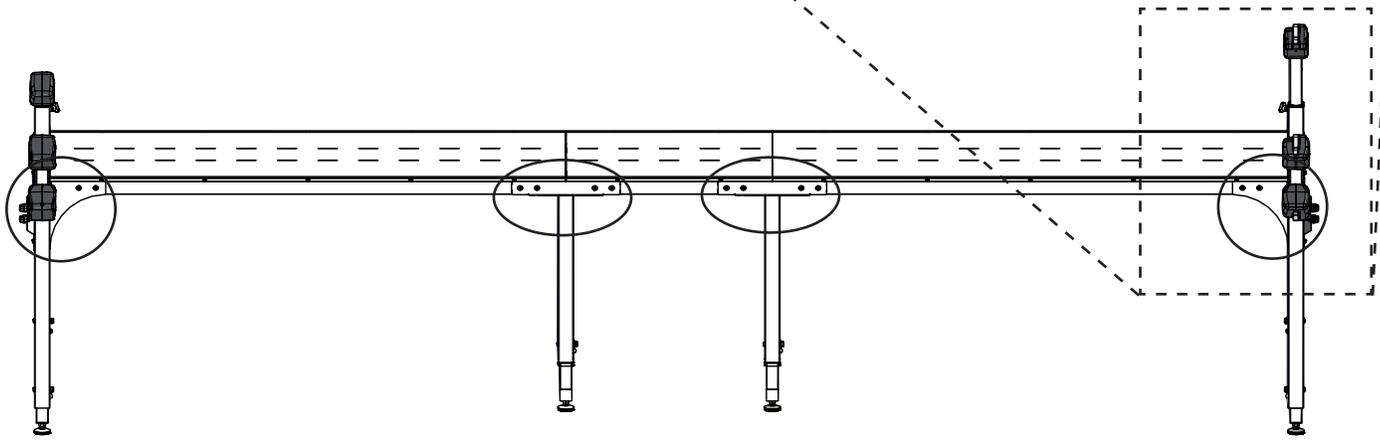
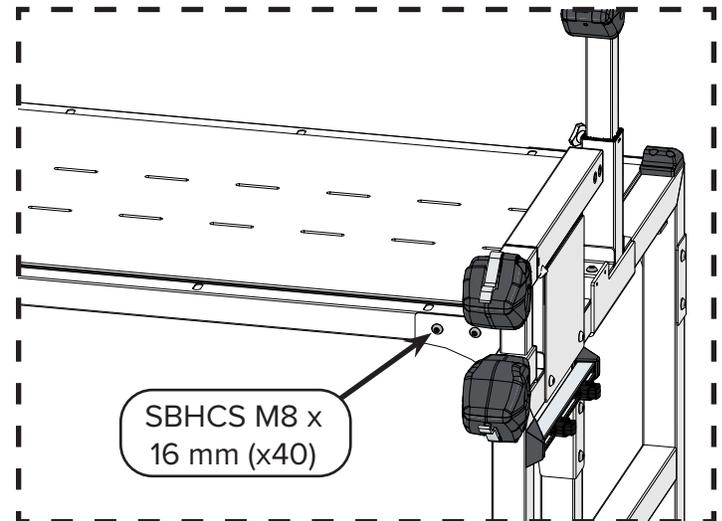


9 Use the Allen wrench to tighten all forty **M8 x 16 mm SBHCS** used to attach the braces.

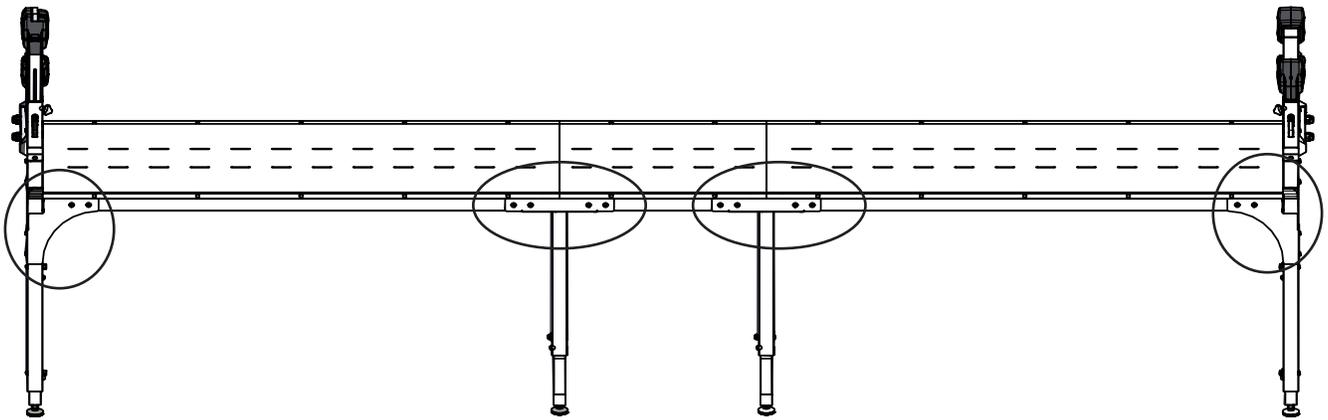
Note: There are eight braces to tighten:

• Back-right corner (4 screws)	• Front-right middle (6 screws)
• Back-right middle (6 screws)	• Front-left middle (6 screws)
• Back-left middle (6 screws)	• Front-left corner (4 screws)
• Back-left corner (4 screws)	
• Front-right corner (4 screws)	

Total = 40 screws.
These locations are circled in the two images below.

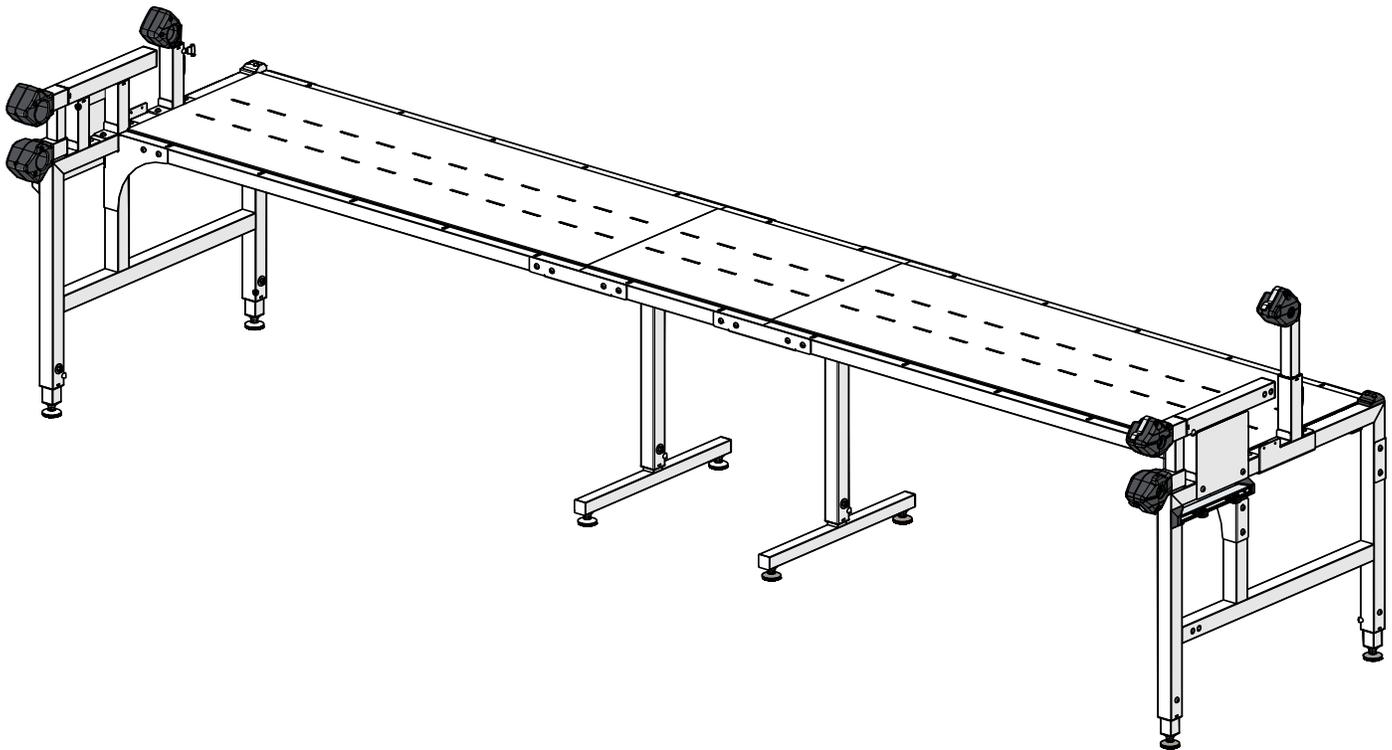


Front of Frame



Back of Frame

10 **Task Result:** The braces are all attached and the frame is sturdy.



Congratulations! You have upgraded to the 12-Foot Evolution Elite-Frame.

Now, use the instructions in the Evolution Elite-Frame manual that came with your upgrade kit (in box 7) to fully assemble your upgraded frame. Start with Task 7, where you'll be attaching and aligning the tracks.

From this point on the assembly process is the same as if you'd purchased the 12-Foot Evolution Elite-Frame from the start. However, pay attention to these small changes:

- Sometimes the instructions in the Evolution Elite-Frame manual will indicate that the parts or tools to use are in boxes 1 or 2. For you, replace that with *(with orig frame)* as you will be using the pieces that came with your original frame instead. If the Elite-Frame instructions direct you to use items from box 7, do so, as those are pieces that came with your upgrade kit.
- When you are installing the tracks (task 7), you will need to pay attention to your channel lock. In the Evolution Elite-Frame instructions, it is assumed that you haven't installed the channel lock yet, but since you are upgrading, your channel lock is already installed. Therefore, make sure the channel lock is up and out of the way so that the bottom carriage can move freely across the frame while you are aligning the tracks.
- Skip installing the channel locks, as you have already done so.
- Make sure you put your machine back on your frame before you install the rails. The Elite-Frame instructions tell you to do that during channel lock installation, which you skipped.
- When you are instructed to assemble your hand wheel (task 12), you can skip that specific step, as your hand wheel is already put together. Make sure you still follow the step to attach the hand wheel to the end of the take-up rail.

Make sure you keep following the instructions in the Evolution Elite-Frame manual for positioning the rails correctly and leveling the frame.

Use Part Four of the Evolution Elite-Frame instruction manual to learn about your new frame, including putting your quilt on the frame.

Best of luck on your quilting journey!

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