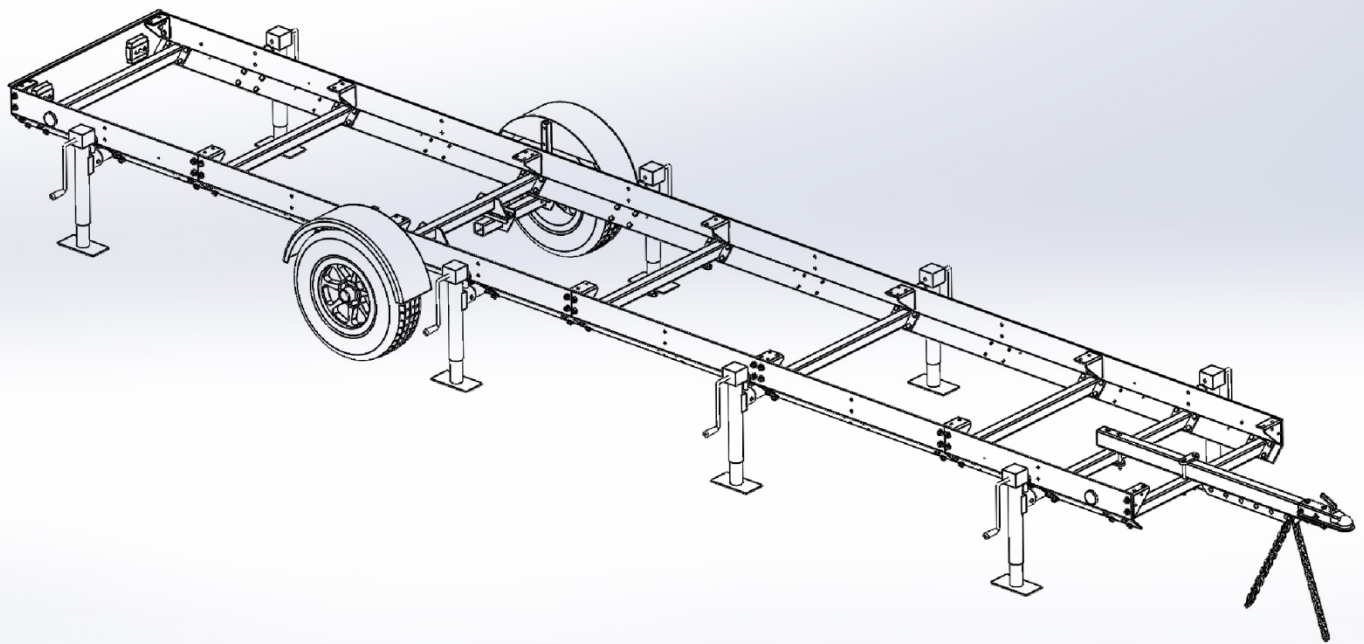


SAWMILL TRAILER

TSM260 for SM260 sawmill /
TSM310 for SM310 sawmill



WARNING:

Read carefully and understand all ASSEMBLY AND OPERATION INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

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INTRODUCTION

Congratulations on your purchase. This manual gives you the necessary information about your sawmill trailer so you will be able to use it properly. The entire manual must be read and understood before using the trailer. If any questions should arise that are not covered by this manual, please contact your dealer.

OWNER'S RECORD

Please take a moment to record the following information about your sawmill trailer. If you need to call for assistance, please be ready to provide your model and serial numbers. This information will allow us to help you more quickly when you call.

MODEL NUMBER

SERIAL NUMBER

DATE OF PURCHASE

The sawmill trailer is compatible with either an SM260 or SM310 sawmill and track system for milling logs while the trailer is stationary and firmly supported on the ground. It is not intended to carry any additional weight or be used as a utility trailer.

The sawmill trailer is designed for certain applications only. We strongly recommend the trailer not be modified and/or used for any application other than that for which it was designed.

For technical questions and replacement parts, please contact your dealer.

****SAVE THESE INSTRUCTIONS****

GENERAL SAFETY RULES



WARNING!

Read and understand all instructions. Failure to follow all instructions listed below may result serious injury.



WARNING!

The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product but must be supplied by the operator.

INSPECTION/MAINTENANCE

- Check the tires before all trips. Make sure they are inflated to the pressure shown on the tire.
- Grease the axle bearings every 3 months or 1000 miles (1600 km), whichever comes first.
- Check the tow hitch ball coupler. Make sure it is not damaged.
- Check the wheel lug nuts before all trips. Make sure they are torqued properly.
- Check the lights. Make sure all the lights work properly. Replace any lights that do not work.
- Inspect trailer before all trips for any damaged or loose parts.

TECHNICAL SPECIFICATIONS

Model		TSM260 or TSM310
Trailer Axle		50x50mm Independent Torsion Axle
Trailer Size(L*W*H)		6000 (+1000mm drawbar)x1030x700mm
Trailer wheels with Fenders		165/70R13
Trailer loading capacity		1500kg
Trailer Lights		LED light kit
Trailer leveling jacks		8pcs
Trailer Ball Coupler		2" (50mm)
Finish		Galvanized/ Powder Coat Paint
Log Loading Ramp		Max. 1350kg
Log Loading Winch		3000 lbs
Weight		385kg
Safety	Locking pins and safety straps to secure saw head while travelling	

BOLT TORQUE SPECIFICATIONS

Bolt (Thread Size)	Torque
M5	78 in•lb / 9 N•m
M6	133 in•lb / 15 N•m
M8	333 in•lb / 38 N•m
M10	53 ft•lb / 72 N•m
M12	93 ft•lb / 126 N•m

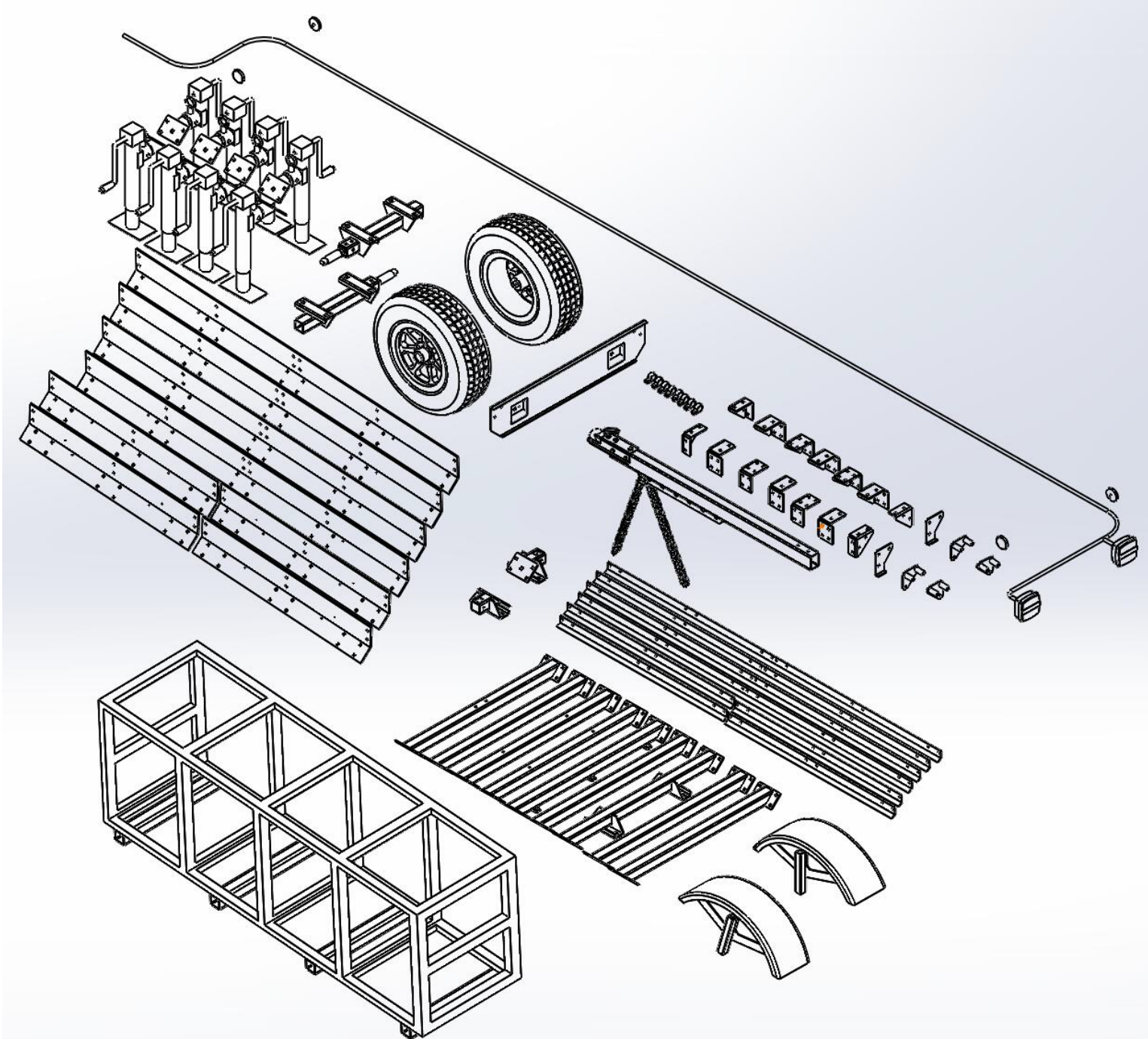
TRAILER ASSEMBLY

1. TOOLS REQUIRED

Tool	Specification	Use
Phillips Head Screwdriver	No. 3	Assembly
Wrench/Socket	8 mm	Assembly
Wrench/Socket	9 mm	Assembly
Wrench/Socket	10 mm	Assembly
Wrench/Socket	13 mm	Assembly
Wrench/Socket	14 mm	Assembly
Wrench/Socket	15 mm	Assembly
Wrench/Socket	18 mm	Assembly
Adjustable Wrench	Variable	Assembly
Torque Wrench	Capable of 93 ft•lb (126 N•m)	Assembly
Drill	Corded or cordless	Head Lock-Down

2. UNPACKING

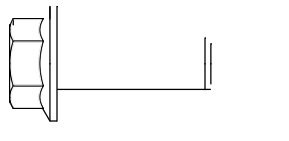
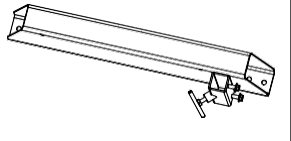
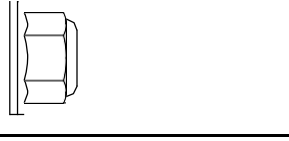

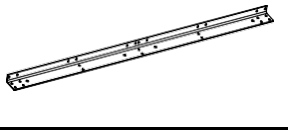
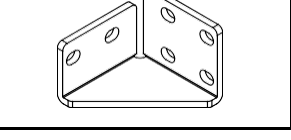
Remove all the parts from the steel crate. Set the crate aside as it will be used as a support for several of the following steps.



3. TRACK RAILS, JOINING GUSSETS, MIDDLE BUNK

Using the hardware listed below, assemble the gussets to the track as shown on the next page.

Ensure the track is 30.5" (775 mm) wide, measuring diagonally to check for squareness. Torque all bolts per the table in section **BOLT TORQUE SPECIFICATIONS**.

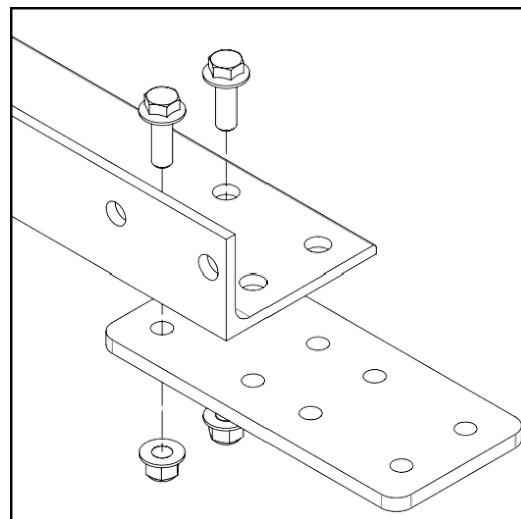
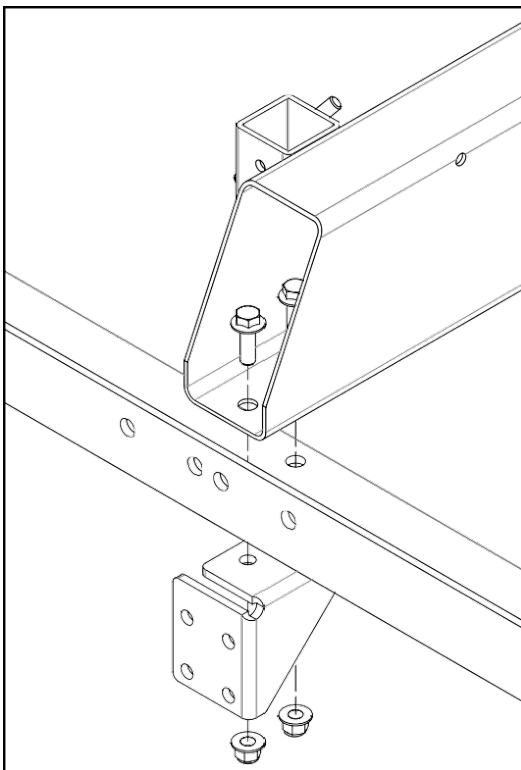
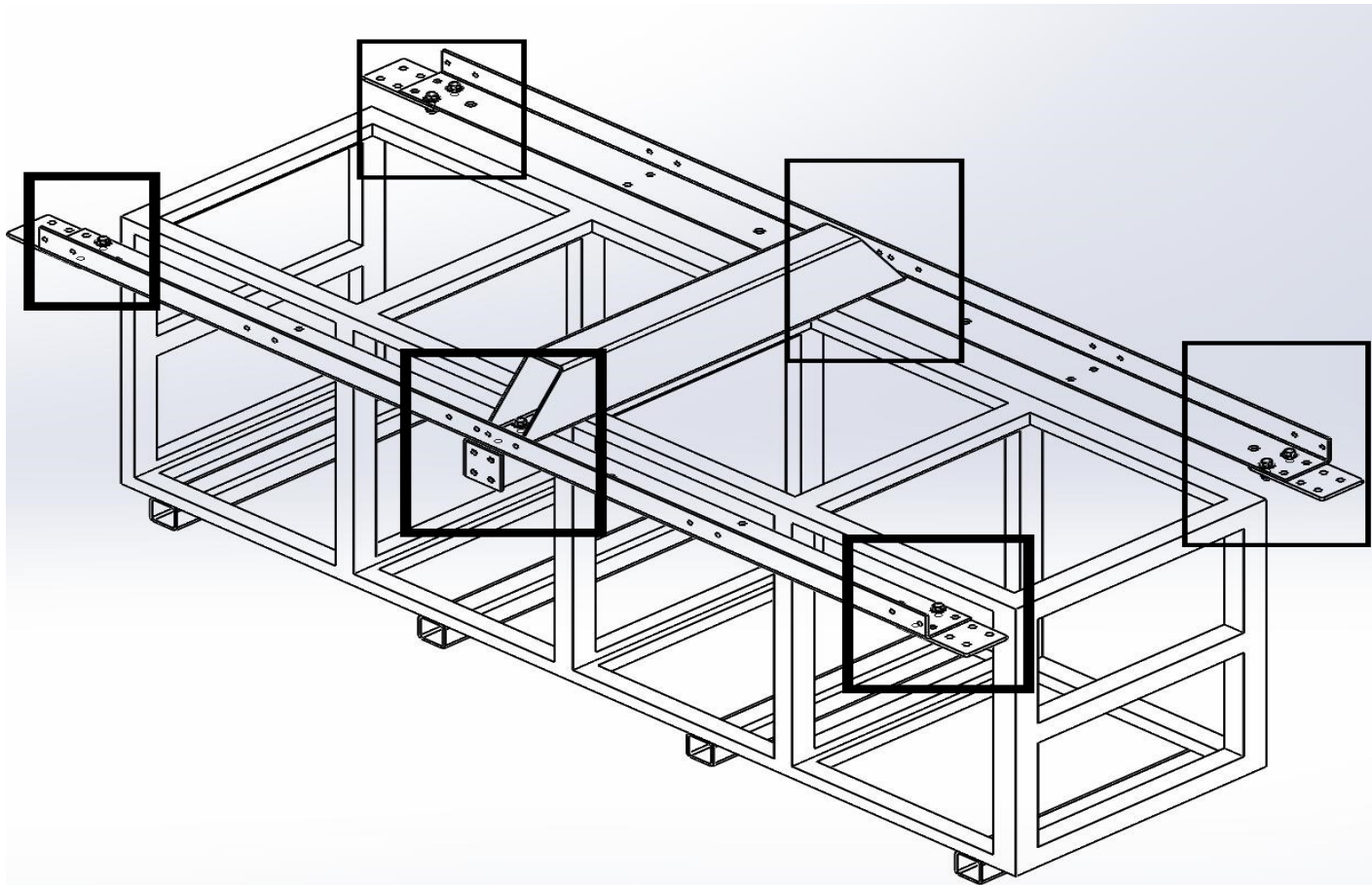
12x	M12 X 35 mm Flanged Hex Bolt		1x	Middle Bunk	
12x	M12 Flanged Lock Nut		4x	Joining Plate	
2x	Track Rail		2x	Joining Gusset	

Track components listed in these tables are *not* included with the trailer package, namely track rails, joining plates, bunks, and carriage stops. These components are found in the sawmill crate. If the trailer was purchased for an existing sawmill (i.e. the sawmill is currently assembled), the track will need to be disassembled prior to building the trailer and the following assembly instructions performed.



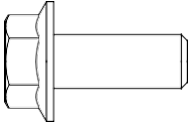
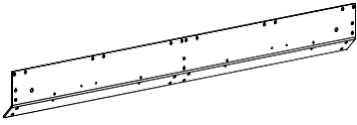
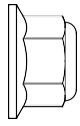
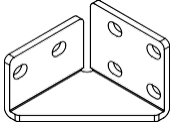
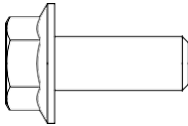
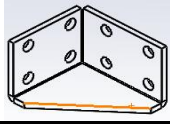
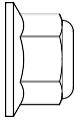
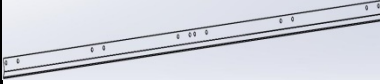
Use the fasteners included with the sawmill trailer to assemble the track. The fasteners included with the sawmill track will *not* be used.

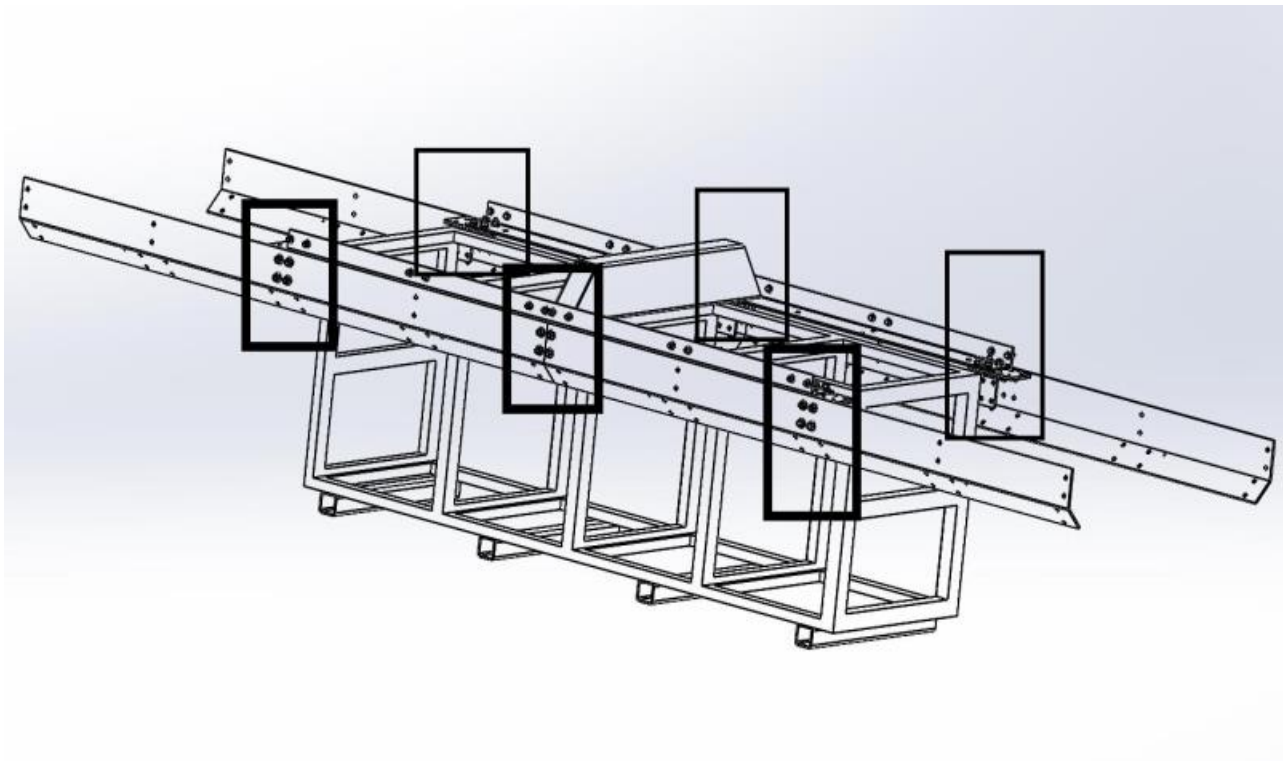


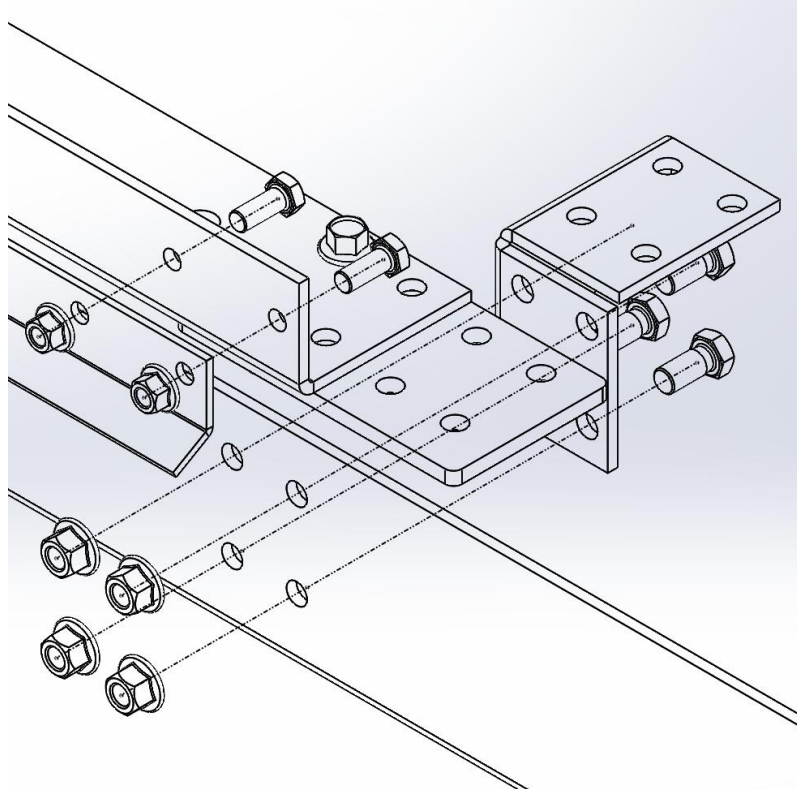
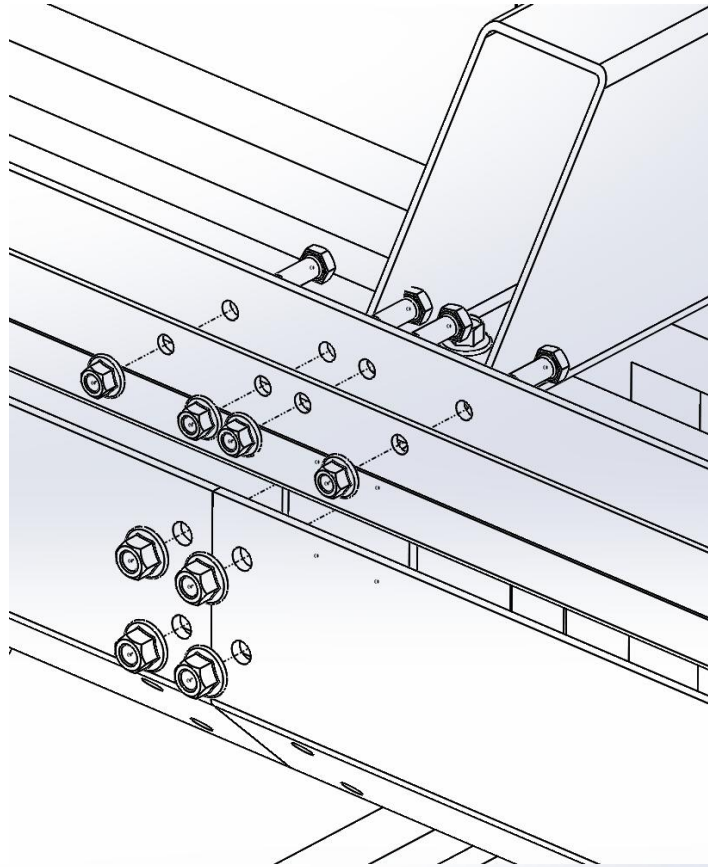


4. LONG SIDE PLATES, JOINING GUSSETS

Using the hardware listed below, hang the long side plates on the centre track section. Snug the bolts up, but leave them loose enough to move the plates.


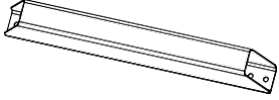
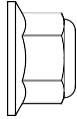
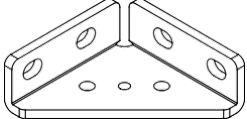
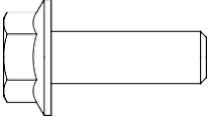
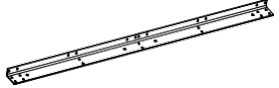
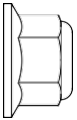
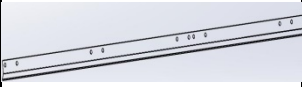
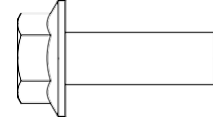
24x	M10 X 25 mm Flanged Hex Bolt		4x	Long Side Plate	
24x	M10 Flanged Lock Nut		2x	Joining Gusset	
24x	M12 X 25 mm Flanged Hex Bolt		4x	Joining Gusset	
24x	M12 Flanged Lock Nut		2x	Peg board	

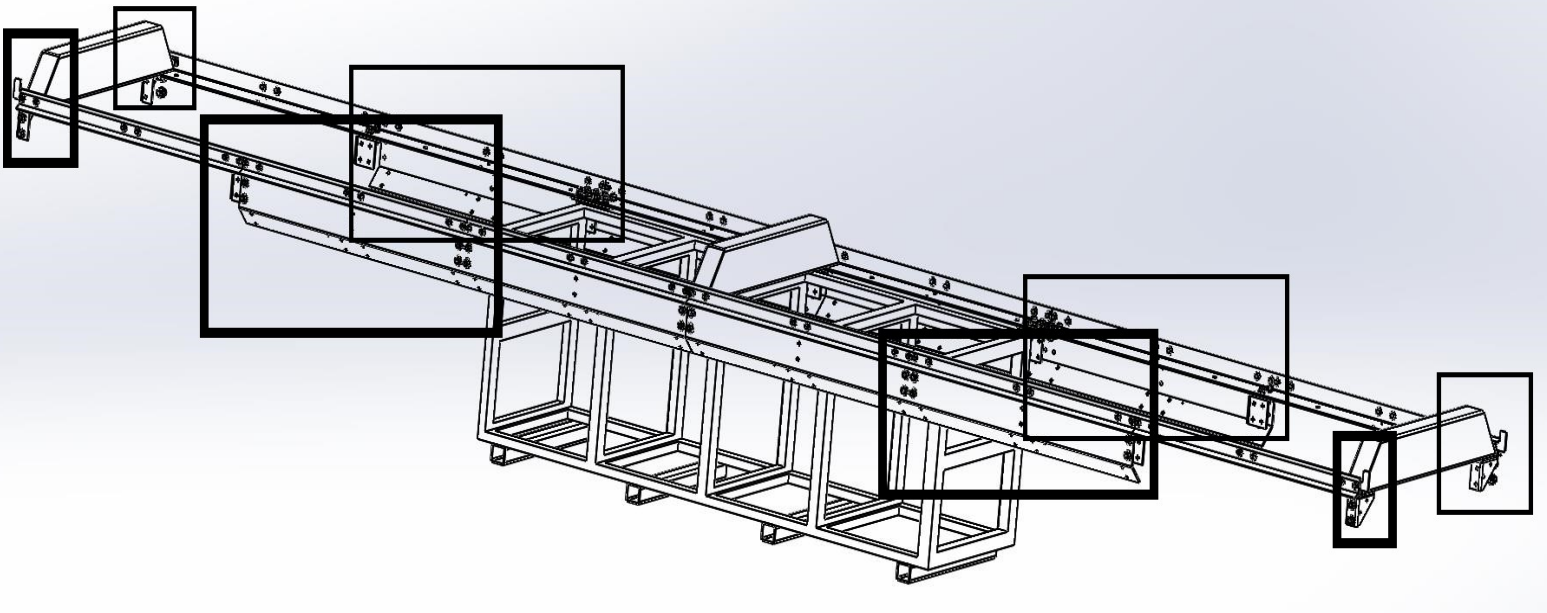


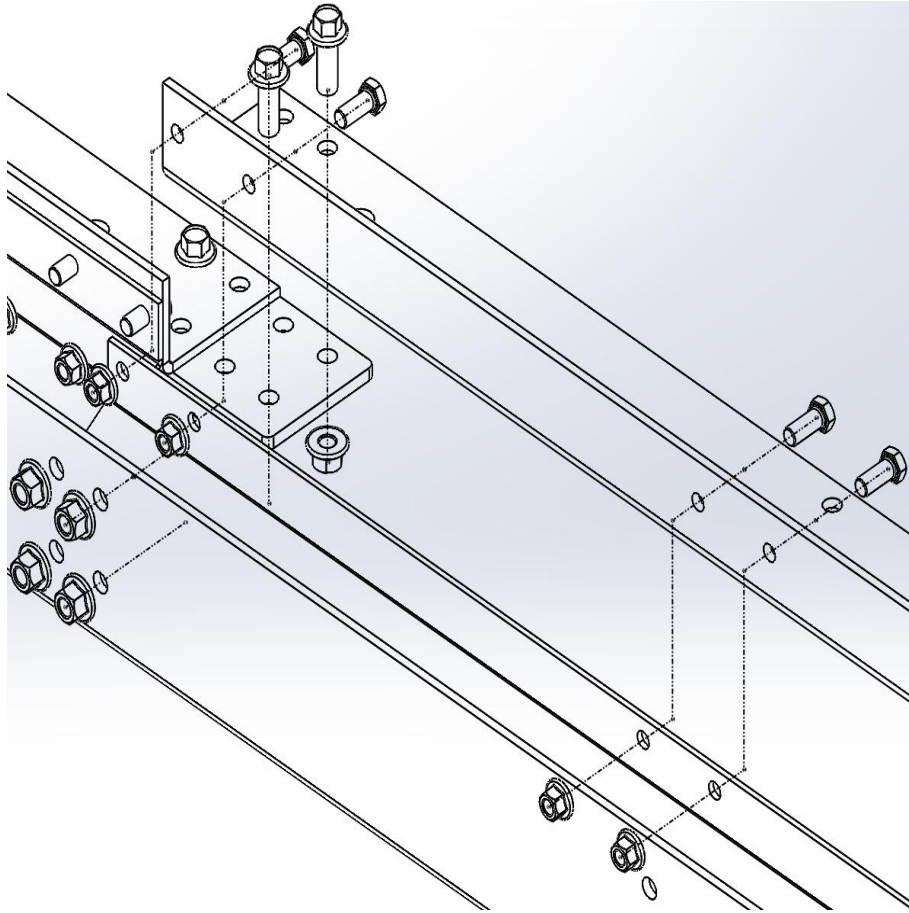
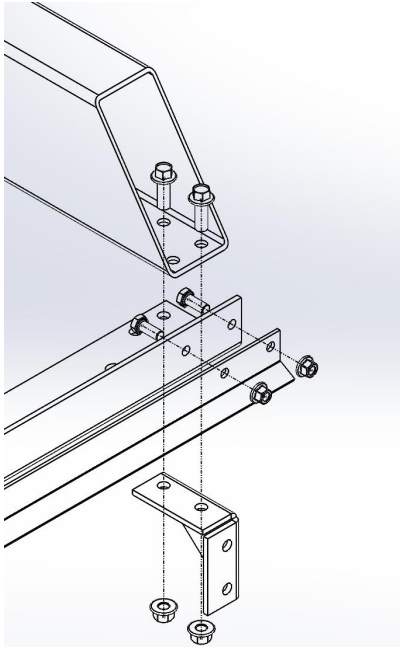


5. TRACK RAILS, END BUNKS, END GUSSETS

Using the hardware listed below, add the remaining track sections and end bunks. Leave the bolts loose.

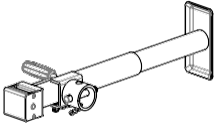
16x	M12 X 35 mm Flanged Hex Bolt		2x	End Bunk	
24x	M12 Flanged Lock Nut		4x	End Gusset	
24x	M10 X 25 mm Flanged Hex Bolt		4x	Track Rail	
24x	M10 Flanged Lock Nut		4x	Peg board	
8x	M12 X 25 mm Flanged Hex Bolt				

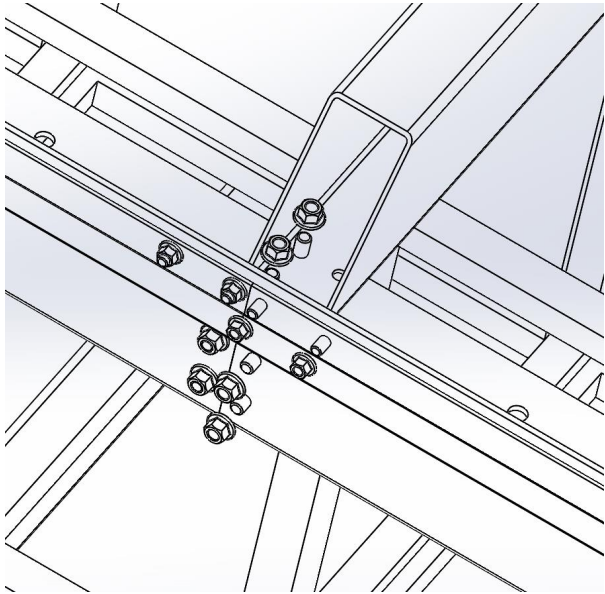
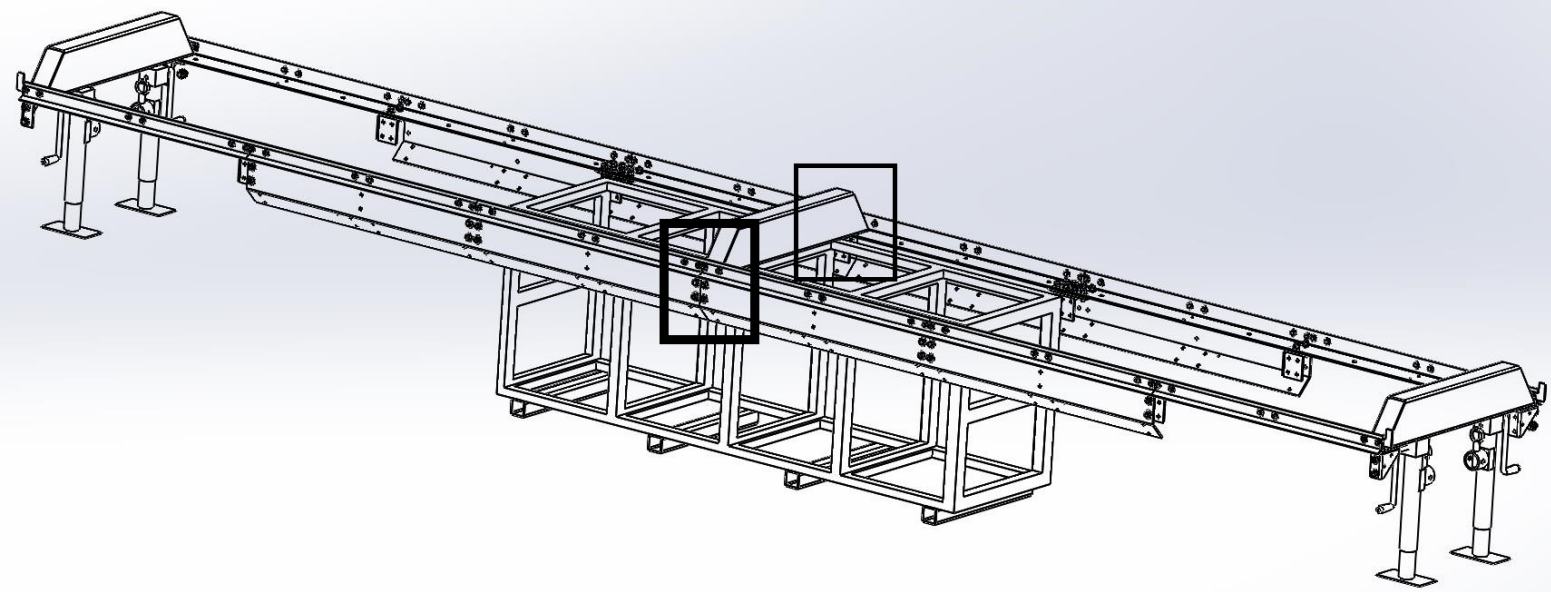




6. JACK STANDS [TEMPORARY]


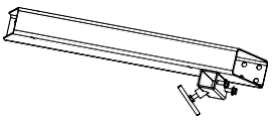

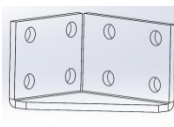
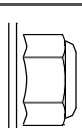
Using 4 jack stands, place 2 under each end bunk and level the assembly. Measure diagonally to check for squareness. Tighten all of the vertical track rail bolts. Leave the horizontal bolts that pass through the side plates loose.

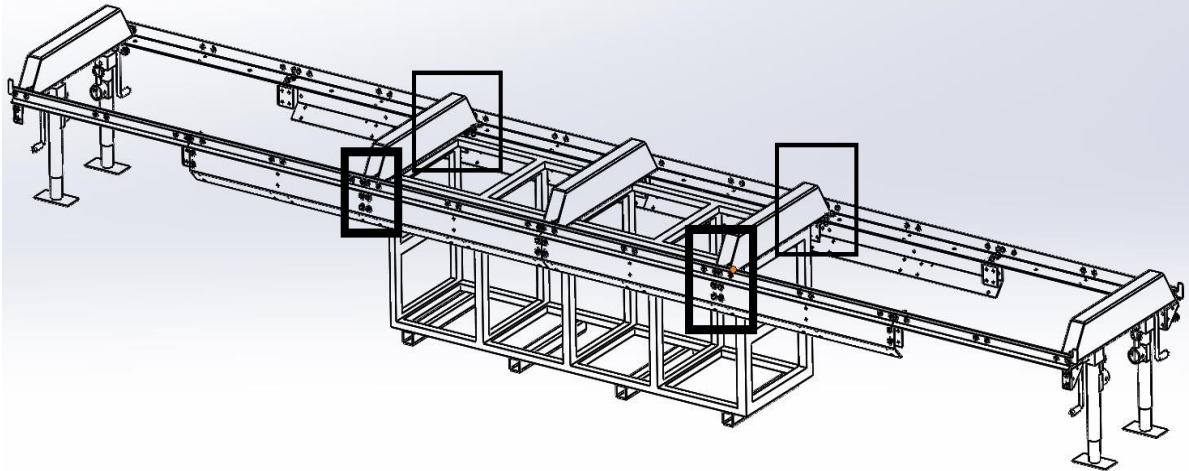
4x	Jack Stand	
----	------------	---

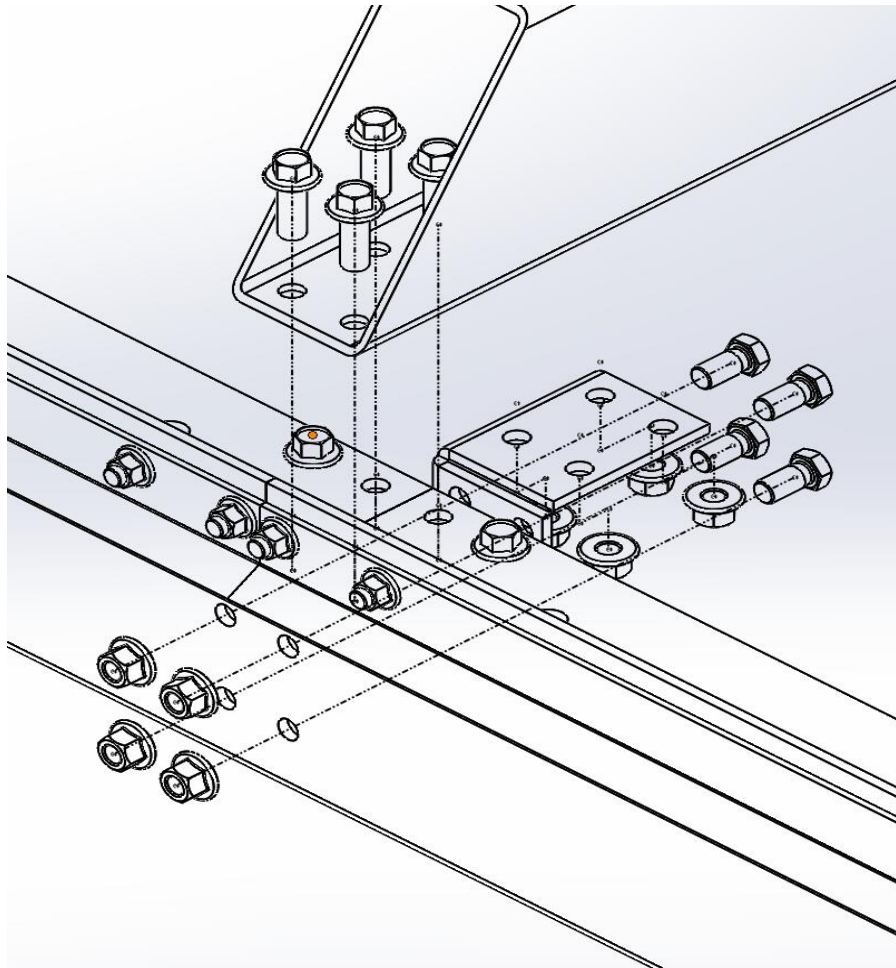


7. JOINING BUNKS, JOINING GUSSETS

Using the hardware listed below, install the joining bunks and joining gussets. Use the M10 X 40 mm bolts through the bunks and the M10 X 30 bolts in the side plates. Tighten all the bolts in this step.


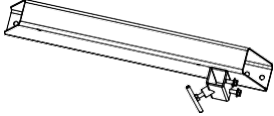

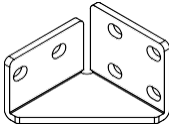
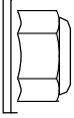
16x	M12 X 35 mm Flanged Hex Bolt		2x	Joining Bunk	
16x	M12 X 25 mm Flanged Hex Bolt		4x	Joining Gusset	
32x	M12 Flanged Lock Nut				

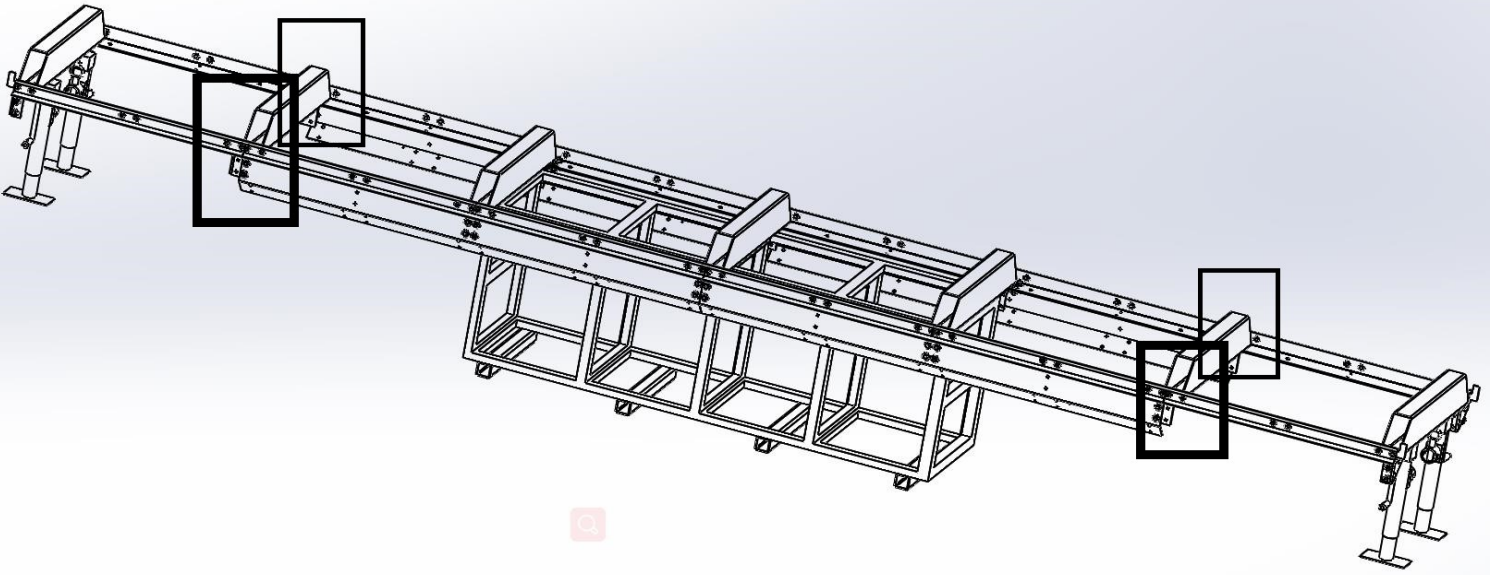


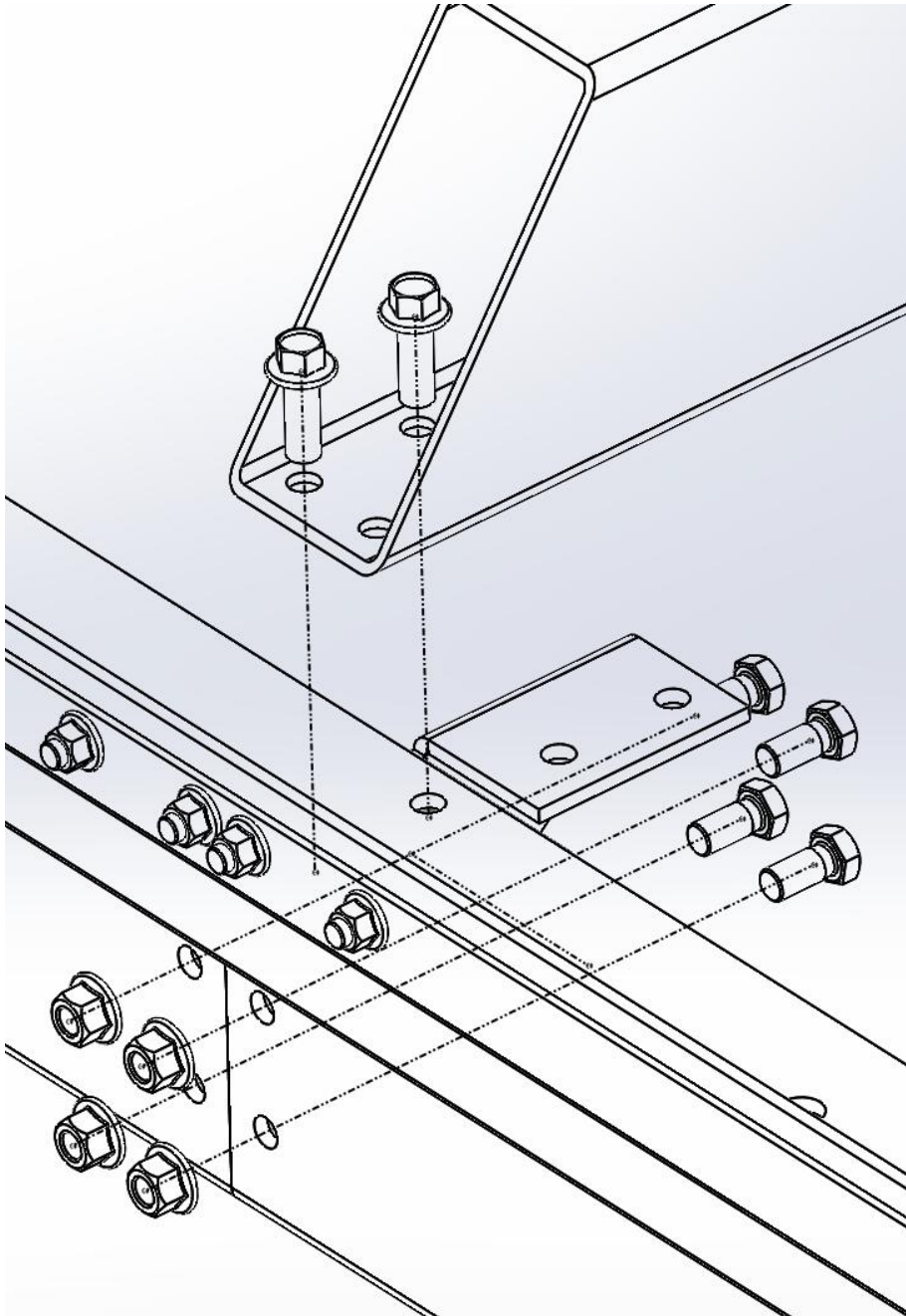


8. MIDDLE BUNKS, JOINING GUSSETS

Using the hardware below, install the remaining bunks and gussets. Tighten the bolts in this step.

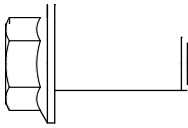
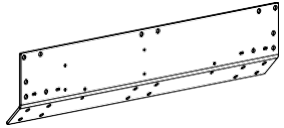
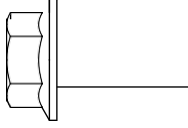
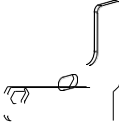
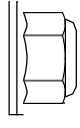
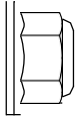
8x	M12 X 35 mm Flanged Hex Bolt		2x	Middle Bunk	
8x	M12 X 25 mm Flanged Hex Bolt		4x	Joining Gusset	
16x	M12 Flanged Lock Nut				

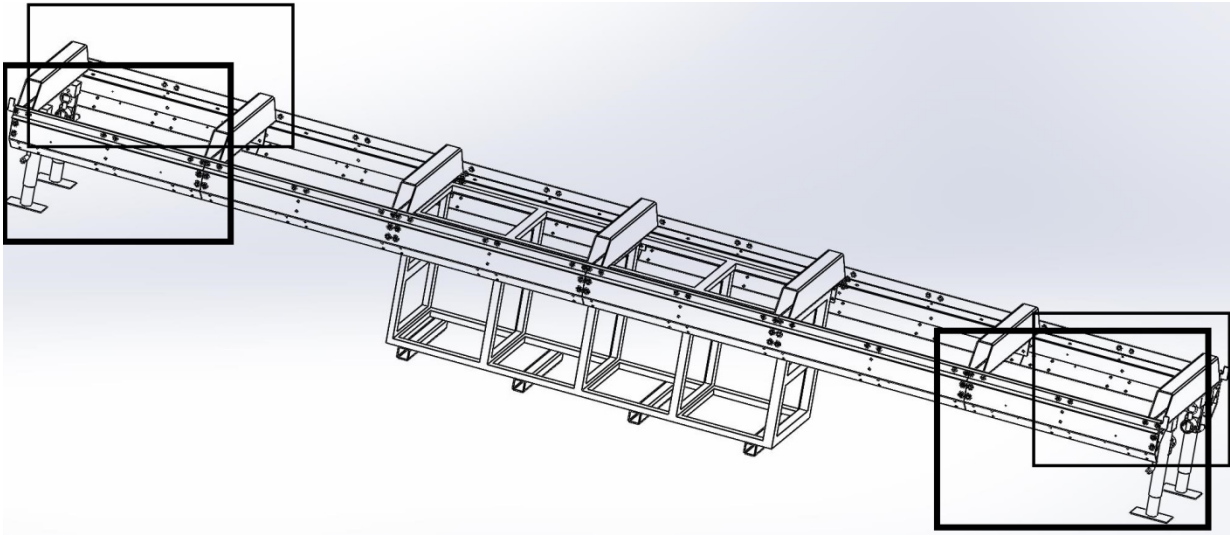


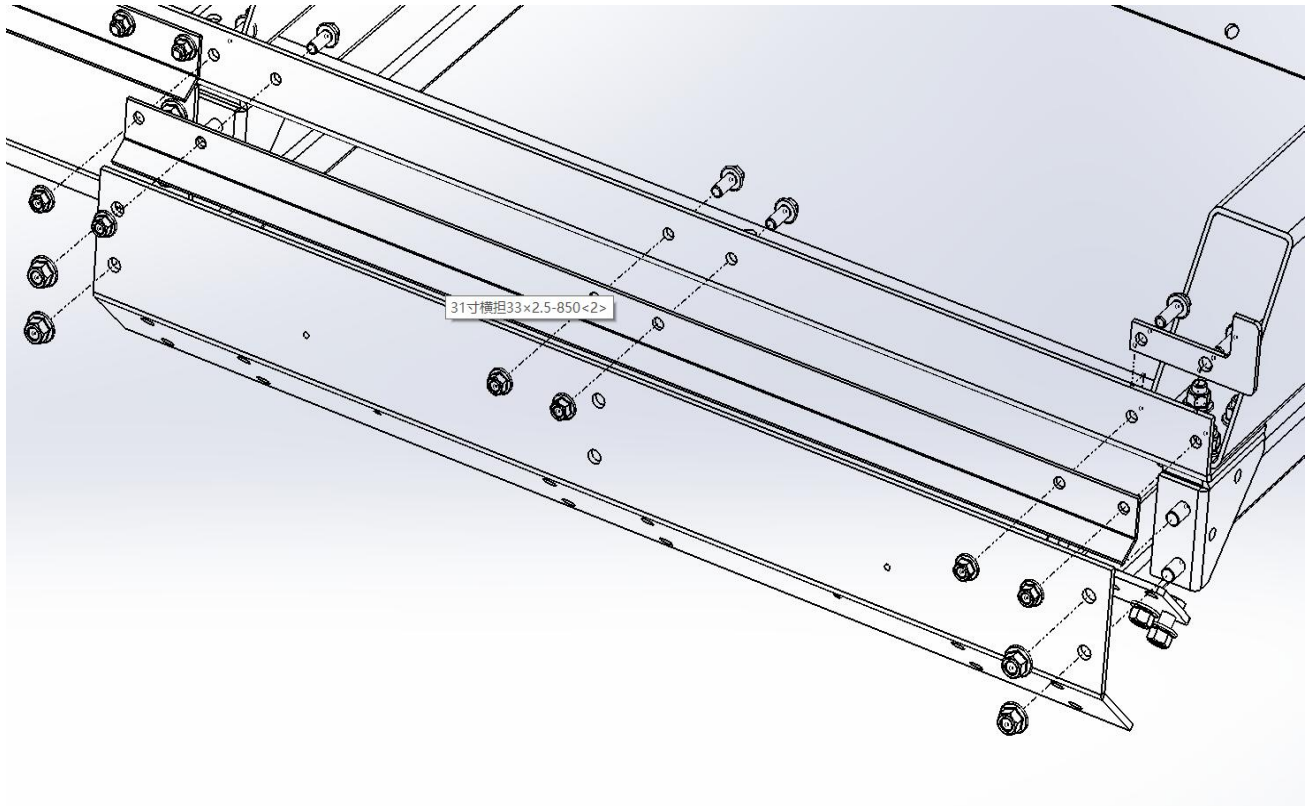


9. SHORT SIDE PLATES, CARRIAGE STOPS

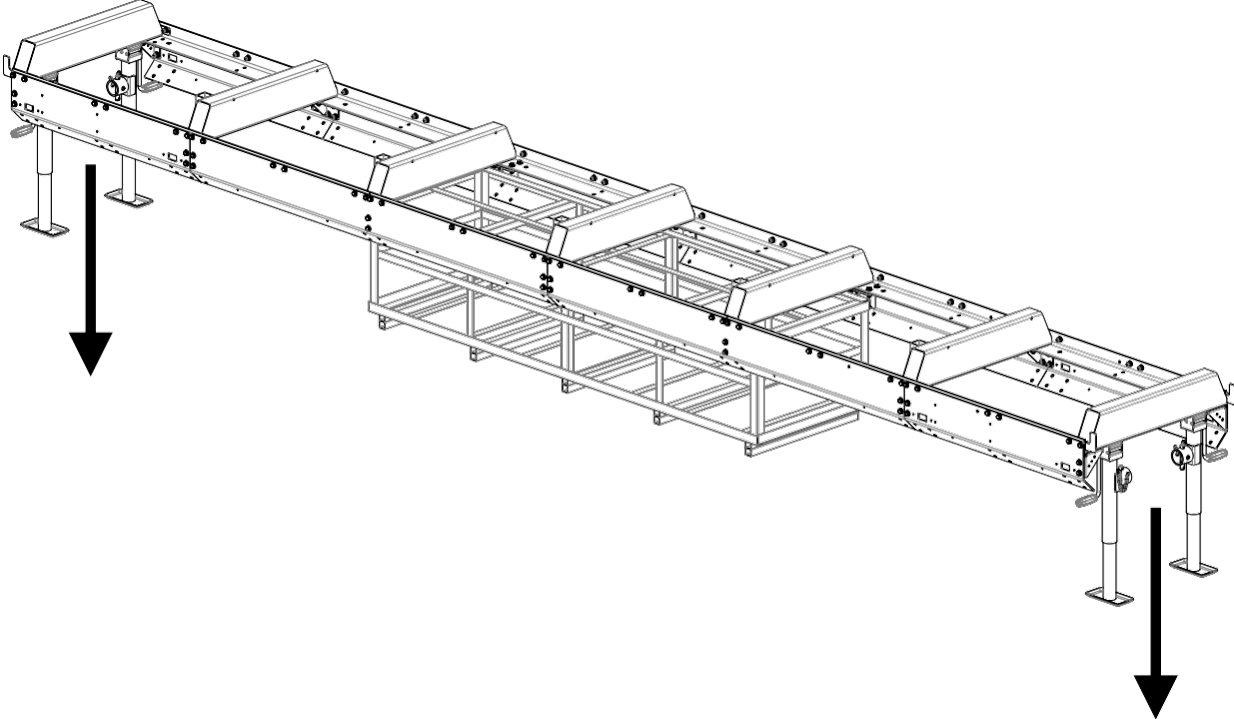
Using the hardware listed below, install the short side plate and carriage stops. The M10 X 35 mm bolts are used at the 4 carriage stop locations. Tighten all of the side plate bolts starting from the centre moving outward. The carriage stops can be fully adjusted once the saw head is back on the track.

24x	M10 X 25 mm Flanged Hex Bolt		4x	Short Side Plate	
16x	M12 X 25 mm Flanged Hex Bolt		4x	Carriage Stop	
24x	M10 Flanged Lock Nut		16x	M12 Flanged Lock Nut	





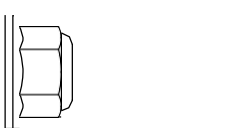
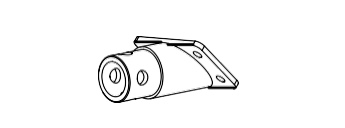
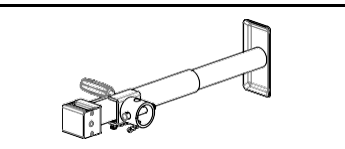


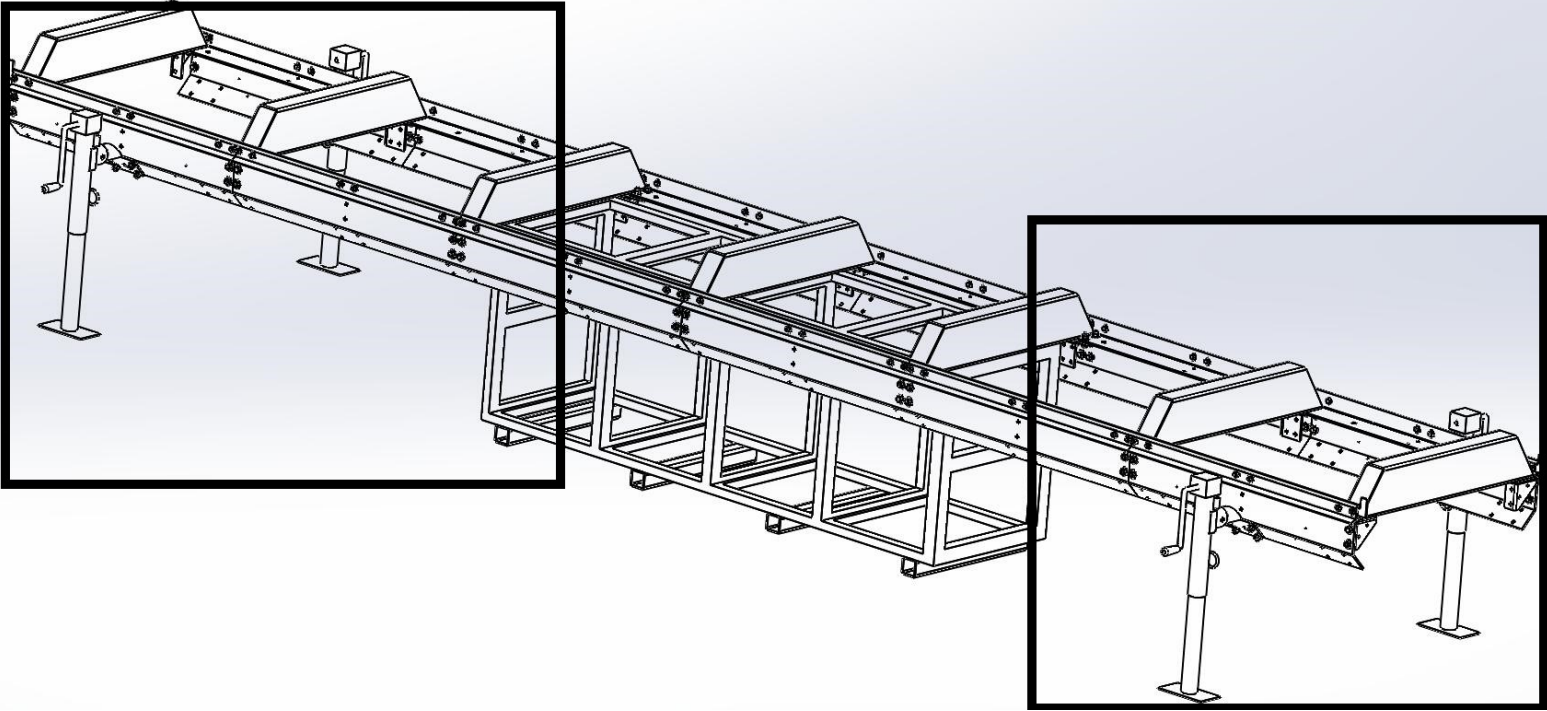
With all of the bolts now tightened, lower the jacks so that the assembly is resting on the crate.

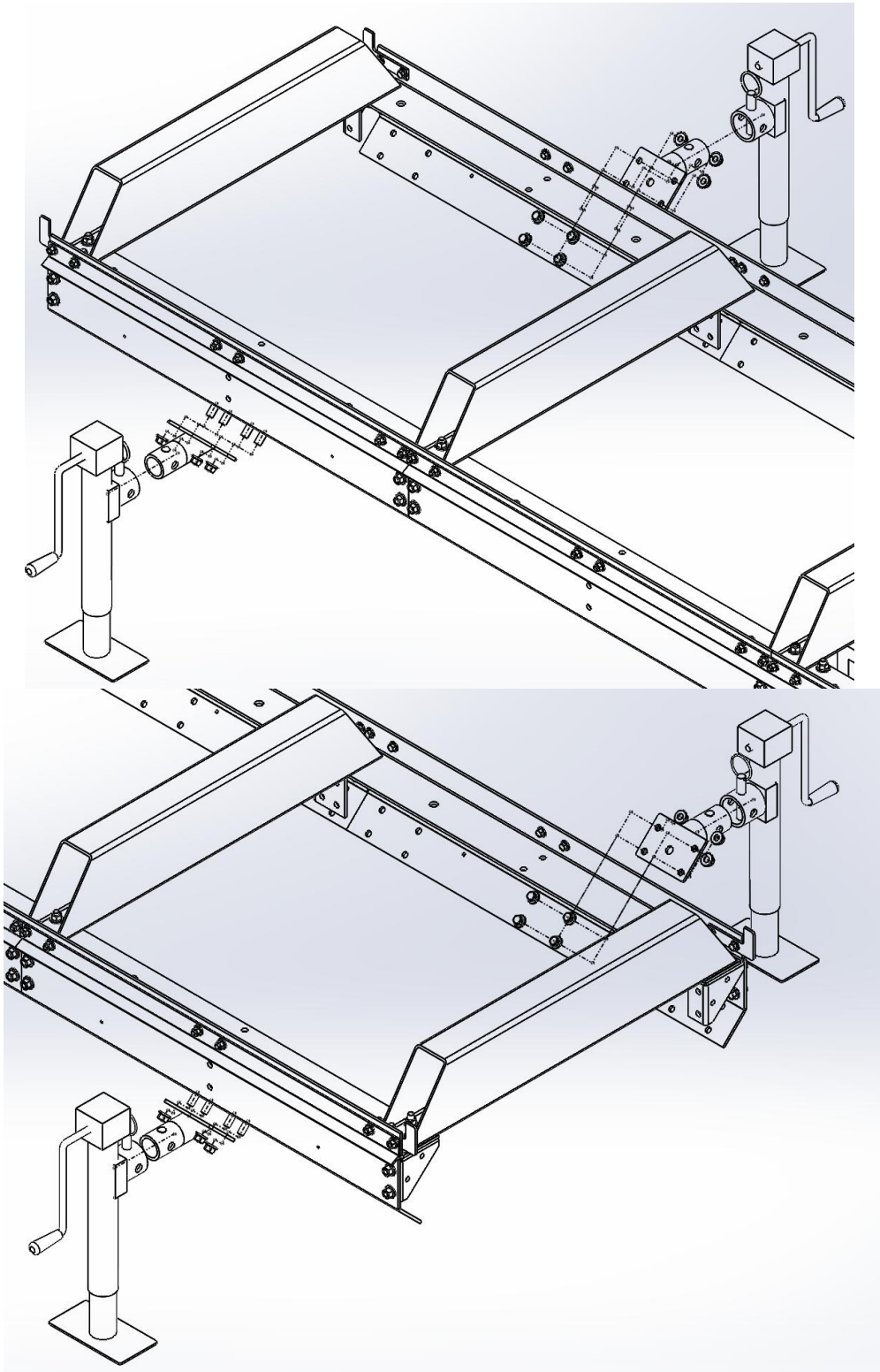


10. CROSS BEAMS, JACK MOUNTS [ENDS]

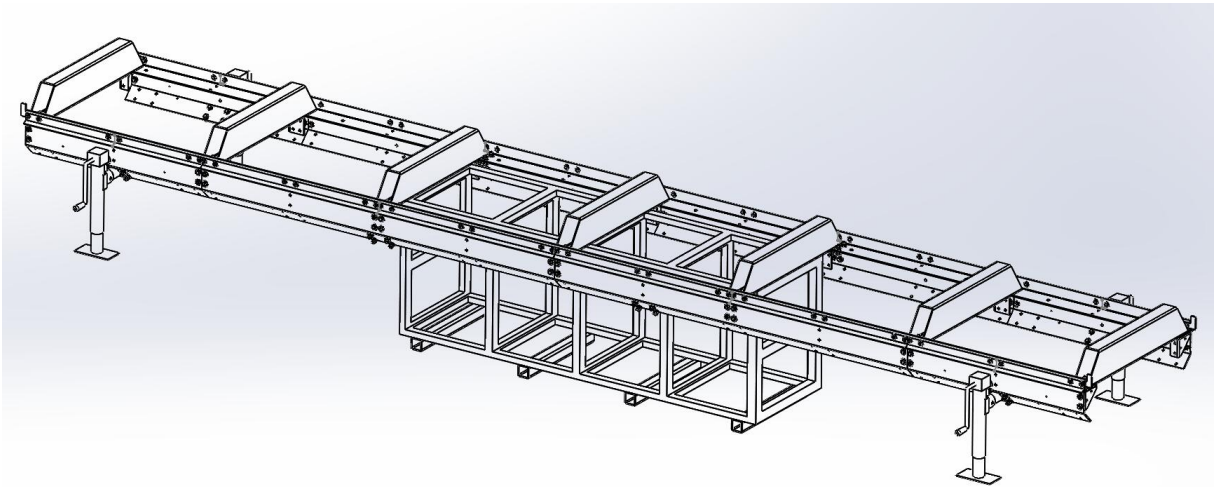
Using the hardware listed below, install the front and rear jack mounts including 1 cross beam with each pair of mounts. Tighten all bolts. Install jack stands on the jack mounts.

16x	M12X30 mm Flanged Hex Bolt		2x	Cross Beam	
16x	M12 Flanged Lock Nut		4x	Jack Mount	
			4x	Jack Stand	




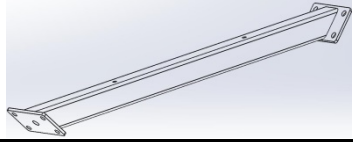
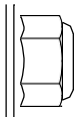
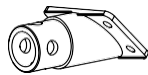
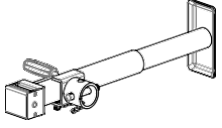


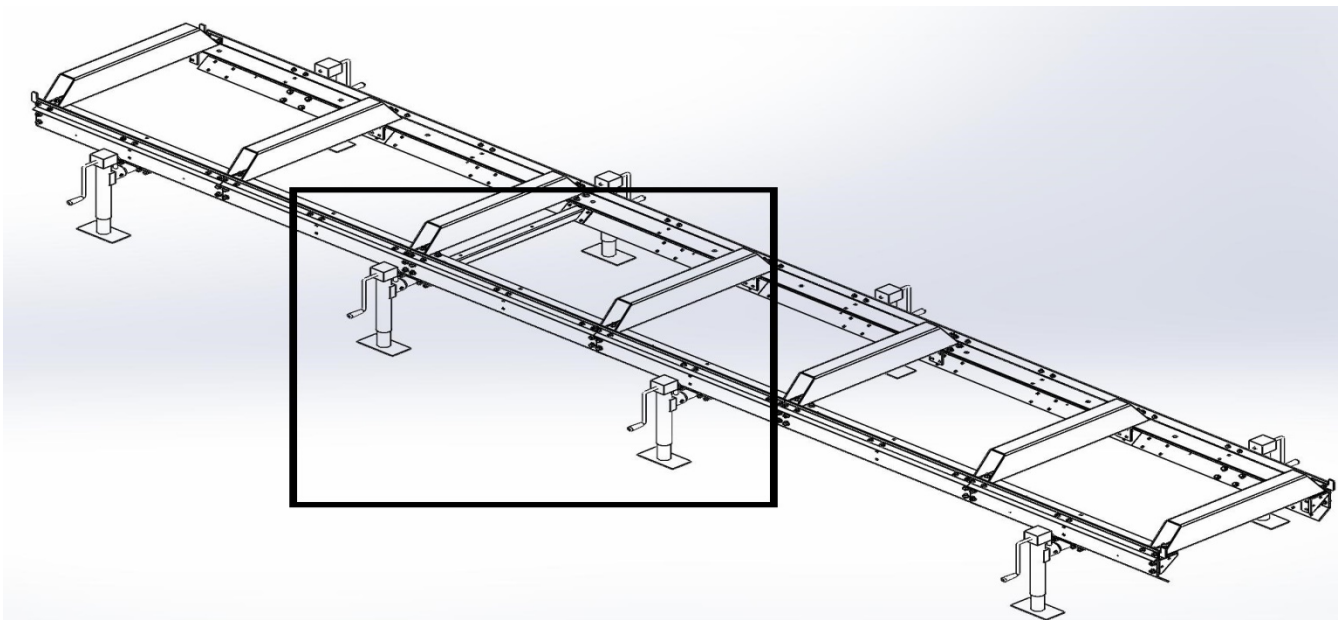
Next, raise the assembly as high as the jacks stands will permit. Pull the crate out from under the assembly once it is sufficiently high enough. It may be necessary to place a block of wood under each jack foot to achieve a sufficient height.

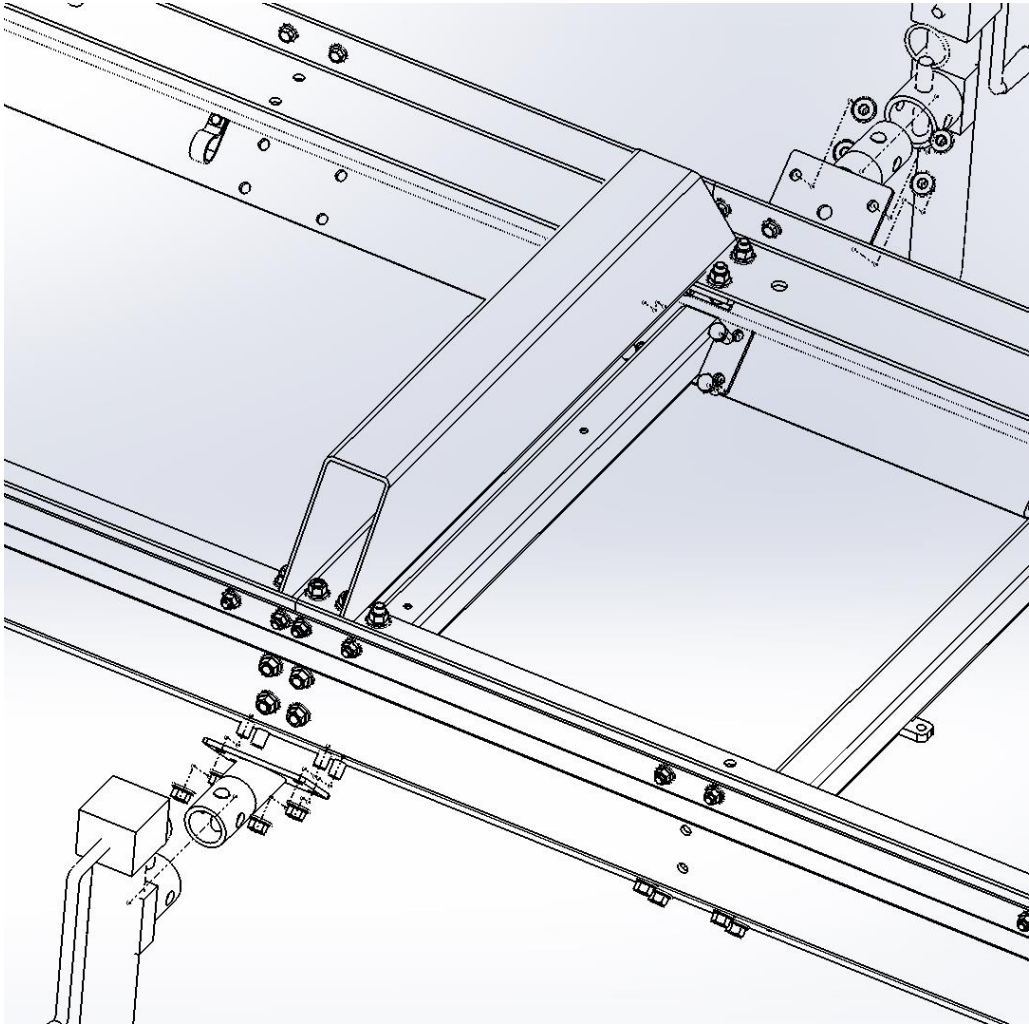


11. CROSS BEAM, JACK MOUNTS [CENTRE]

Using the hardware below, install the centre cross beam and jack mounts. Level the trailer on all six jack stands. Tighten all the bolts.


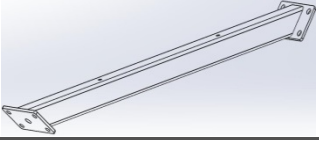
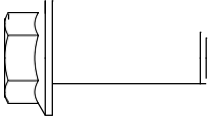
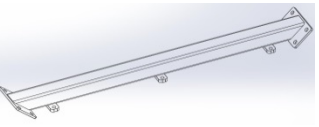
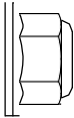
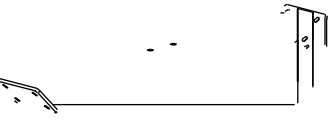
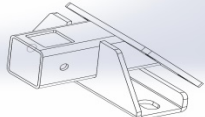

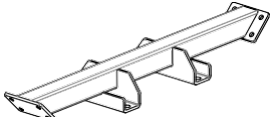
16x	M12 X 30 mm Flanged Hex Bolt		1x	Cross Beam	
16x	M12 Flanged Lock Nut		2x	Jack Mount	
			2x	Jack Stand	

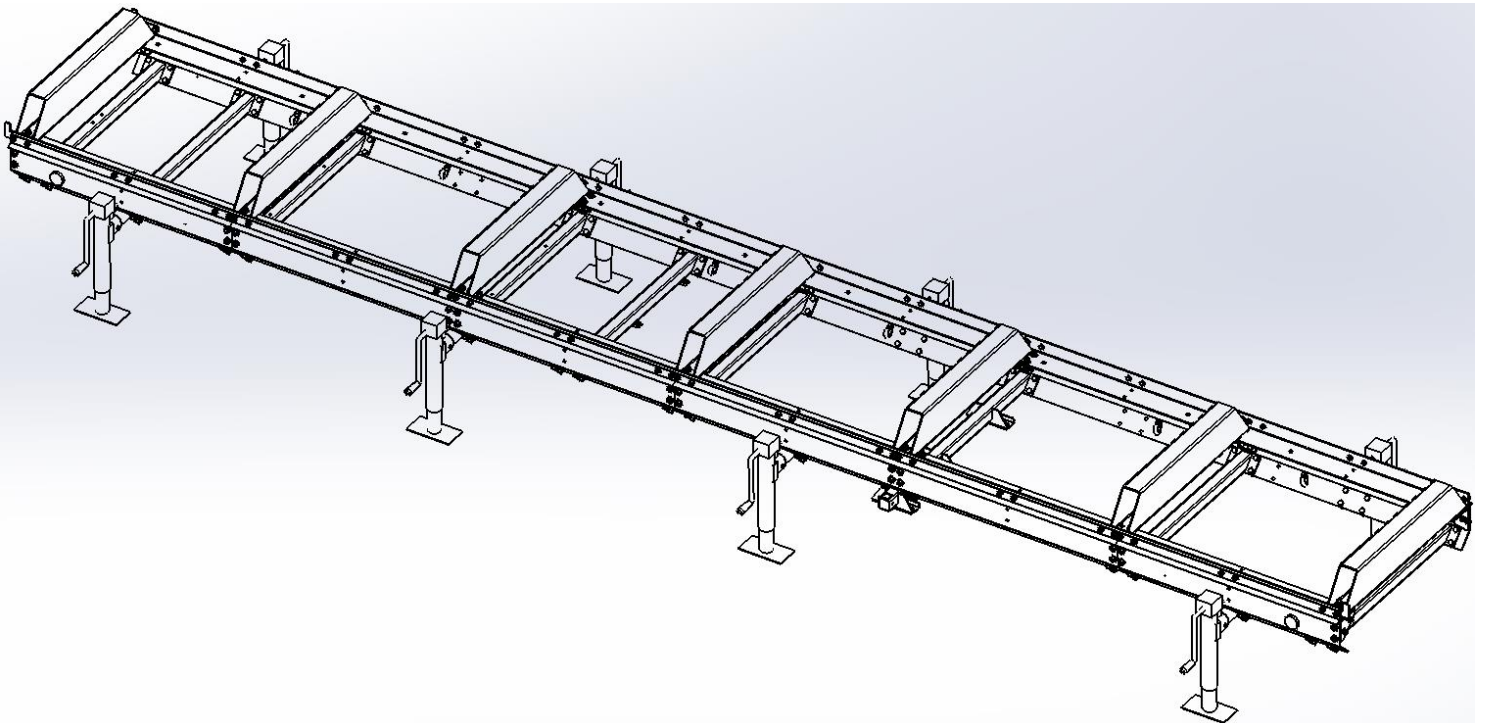


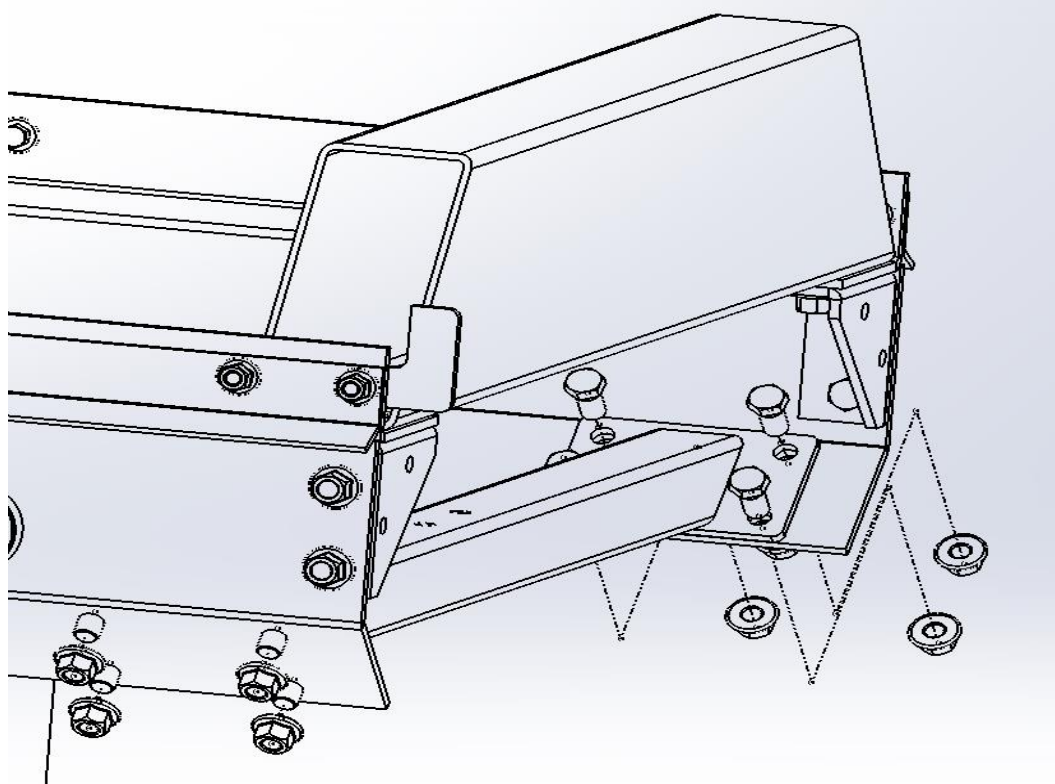
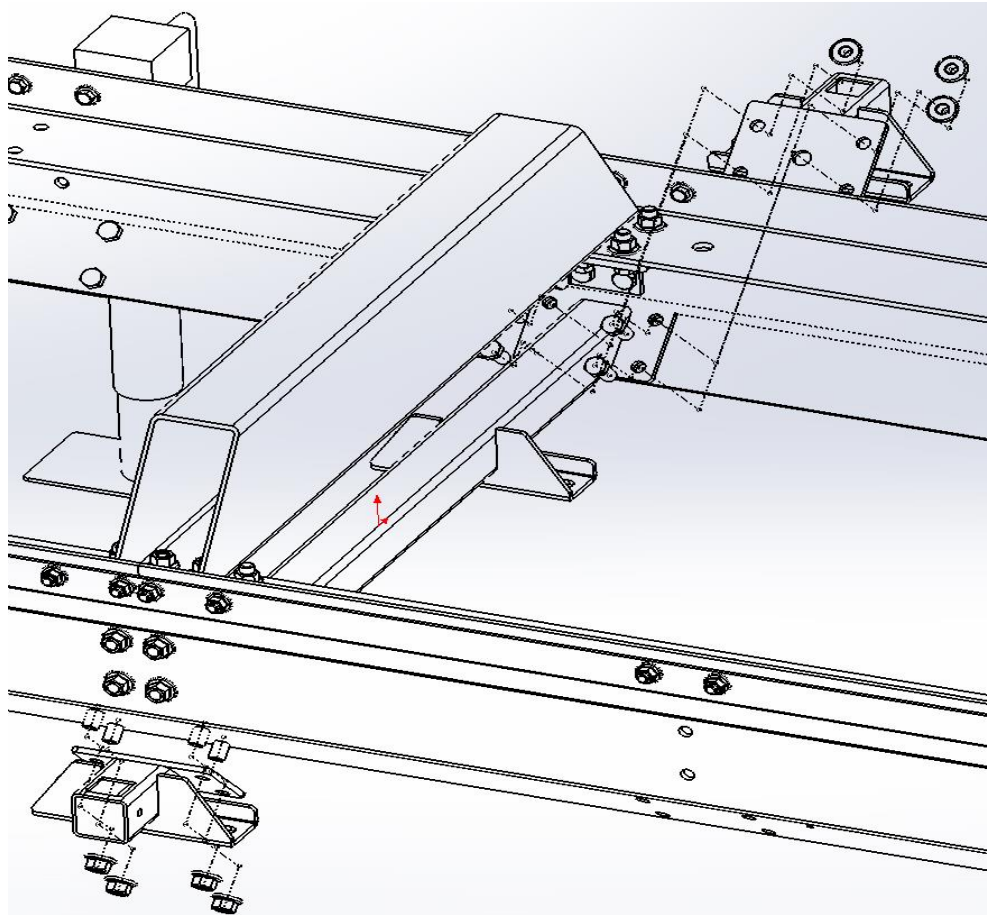


12. CROSS BEAMS, AXLE CROSS BEAM, AXLE MOUNTS

Using the hardware listed below, install the remaining cross beams, the front cross beam (with 2 holes), and axle mount cross beam in the locations shown below. Tighten all bolts.

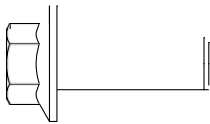
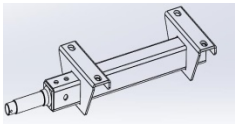
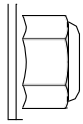
8x	M10 X 30 mm Flanged Hex Bolt		1x	Cross Beam	
32x	M10 X25mm Flanged Hex Bolt		1x	Winch Cross Beam	
40x	M10 Flanged Lock Nut		1x	Front Cross Beam	
2x	Axle Mount w/ Fender Adapter		4x	Cross Beam	
			1x	Axle Mount Cross Beam	

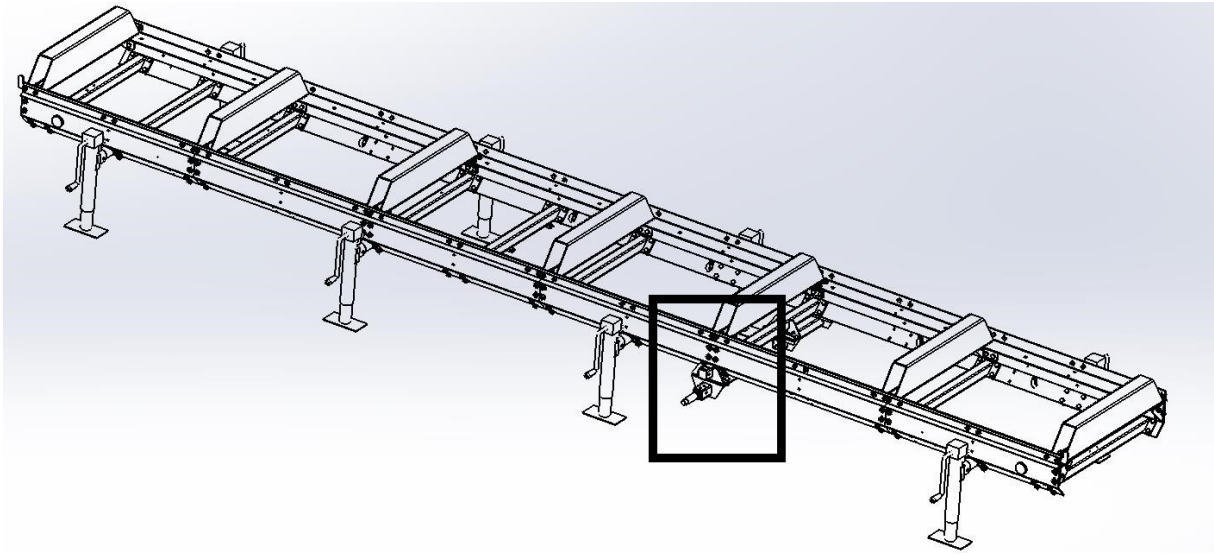


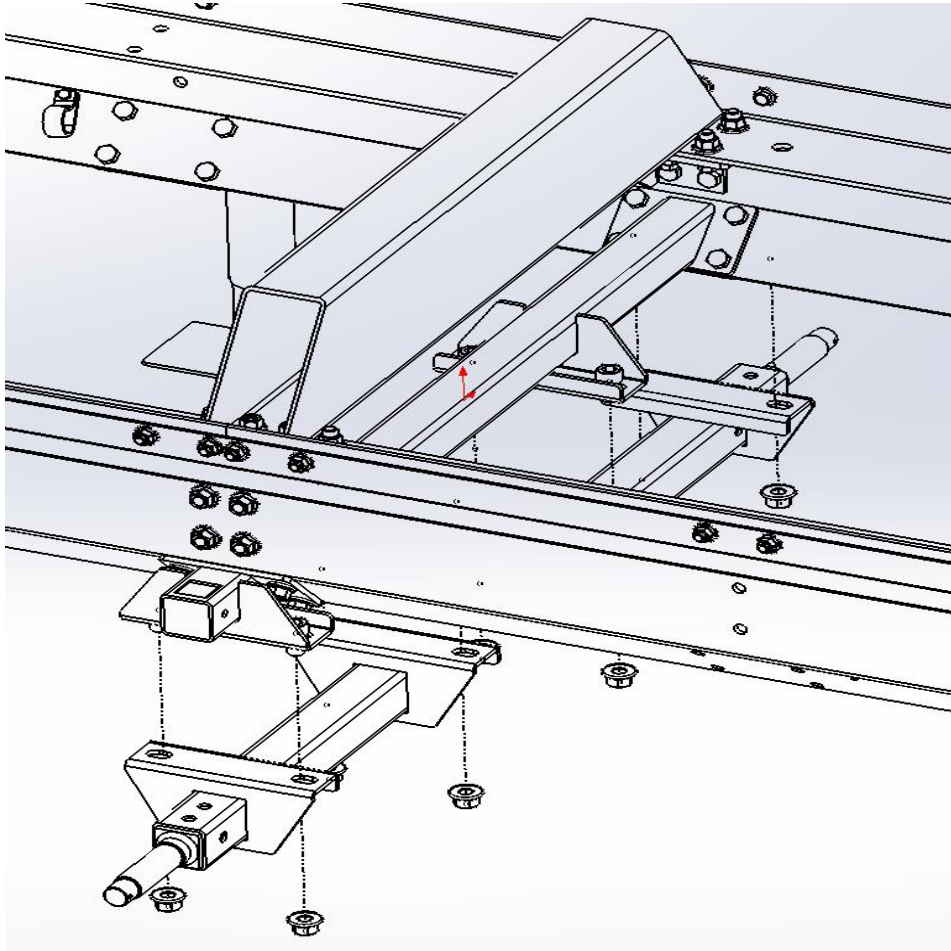


13. AXLES

Using the hardware listed below, install the axles as shown on the next page. Tighten these bolts to the **specified torque**. Place a bubble level across both axles and check for level. If the level is off, use axle shim plates between the inner axle mounting face and axle cross beam to ensure the axles ride level. The shims are not necessary if the axles sit level after assembly.

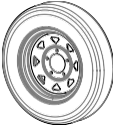
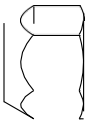
8x	M14 X 25 mm Flanged Hex Bolt		2x	Axle	
8x	M14 Flanged Lock Nut				

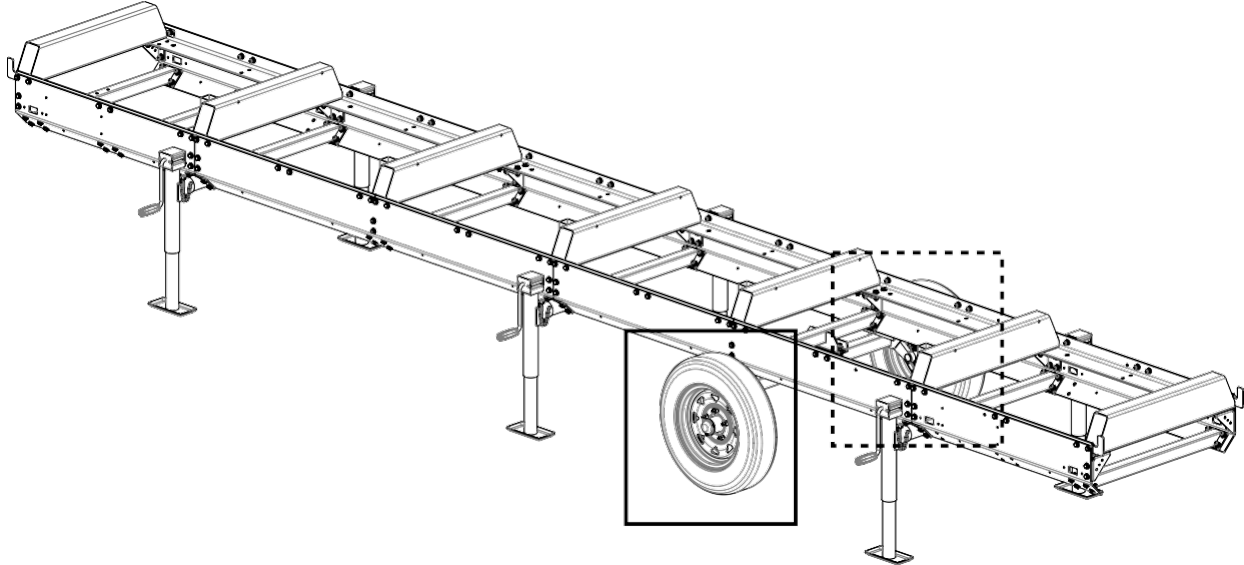


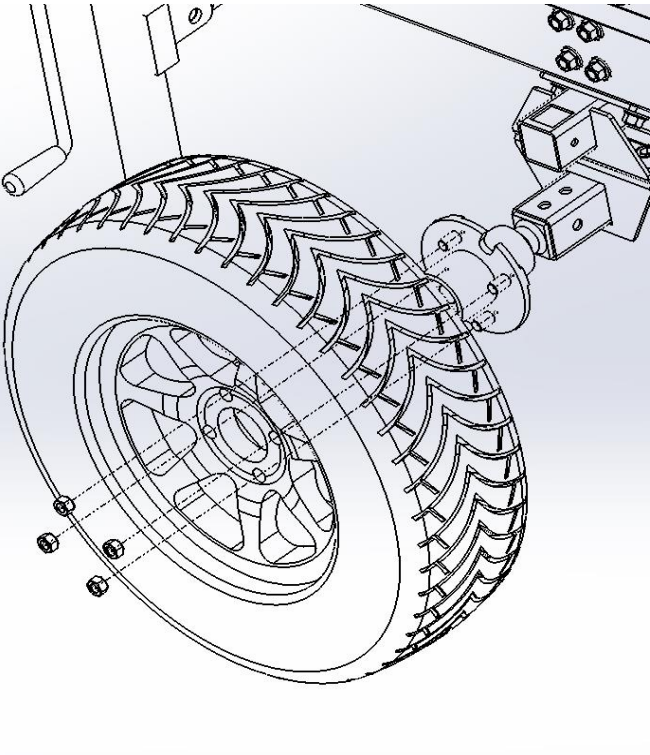
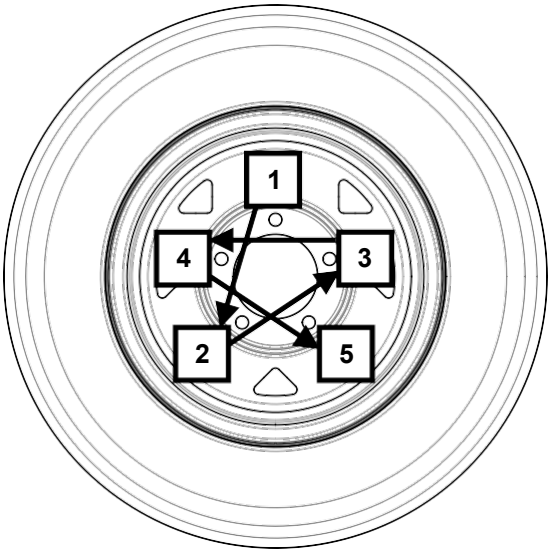


14. WHEELS

Using the hardware listed below, install the wheels on the axles. Using a torque wrench, torque the lug nuts to 80 ft•lb / 110 N•m following the pattern shown below.

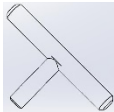
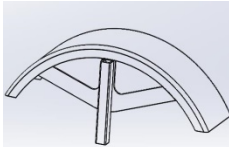
2x	165/70R13 Wheel		10x	1/2-20 in Lug Nut	
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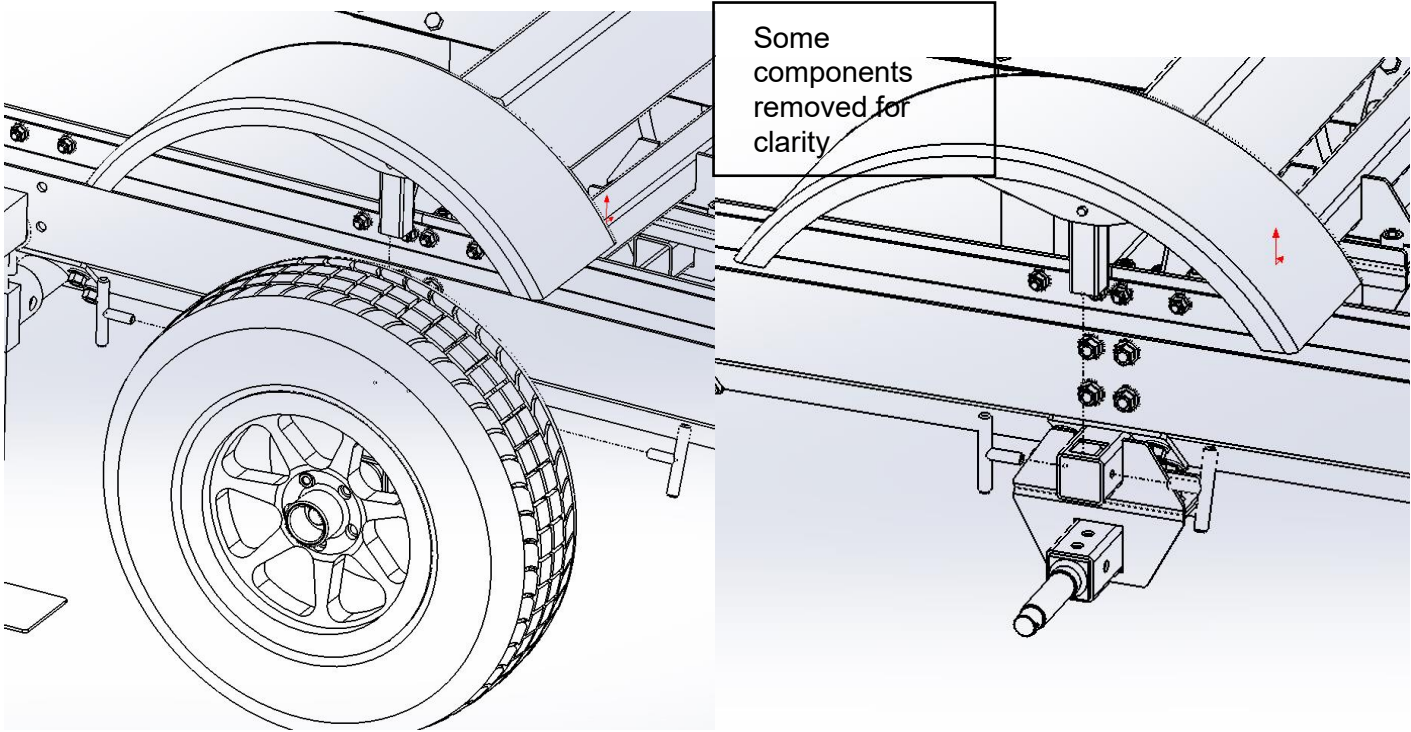
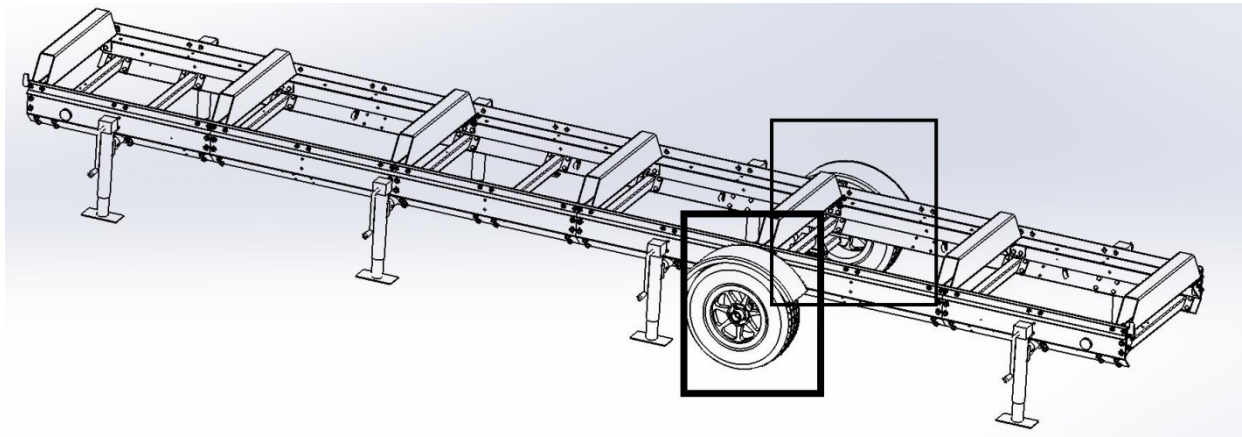




15. FENDERS



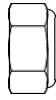
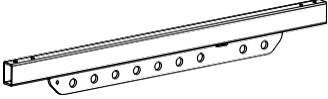
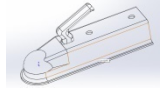
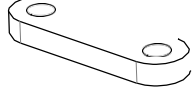
Using the hardware listed below, assemble the fenders to the fender brackets. Tighten these bolts. Slide the post on the fender bracket into the sleeve on the axle mount and insert the locking pin through the hole located at the bottom of the fender bracket post. Secure the fender/ fender bracket sub-assembly using the M10 X 30 mm knob by threading it into the axle mount until tight.

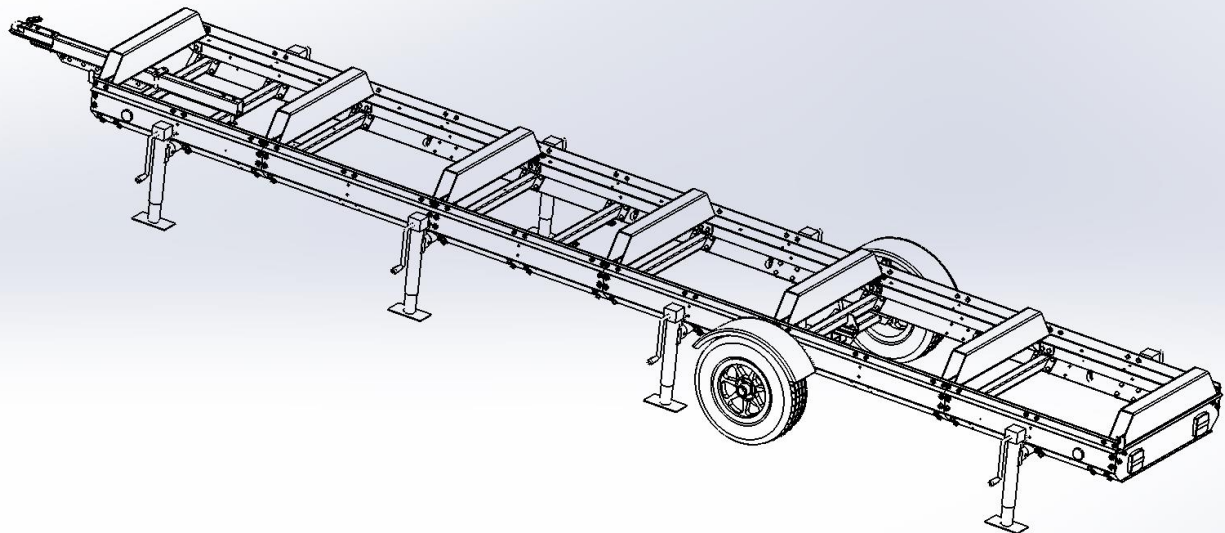
8x	T-M10 JACK BOLT		2x	Fender Bracket	
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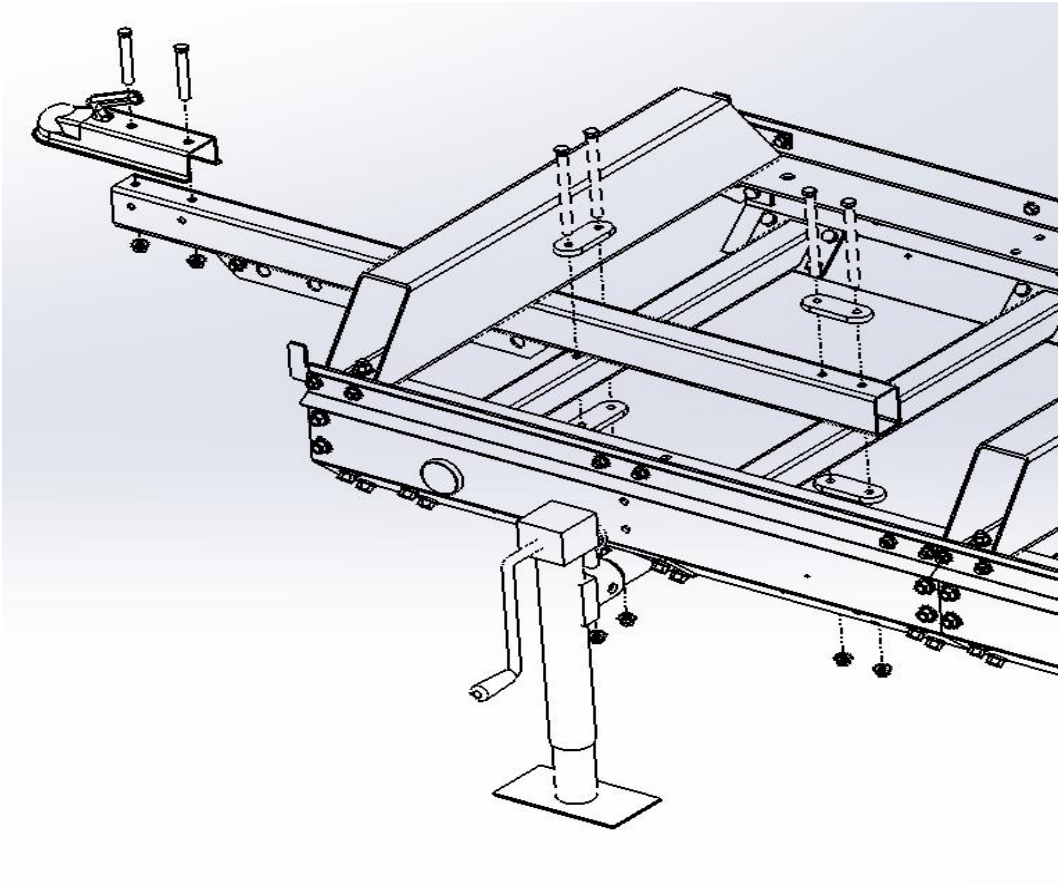


16. TONGUE, HITCH COUPLER

Using the hardware listed below, install the trailer tongue and hitch coupler. Don't tighten the M10 X 160 mm bolts in this step since the plug for the lights will be routed through the tongue in the following step. Tighten the coupler bolts.

2x	M10 X 90 mm Hex Bolt (Europe Only)	
4x	M10 X 160 mm Hex Bolt	
6x	M10 Lock Nut	
1x	Tongue	
1x	Hitch Coupler	
4x	Tongue Bracket	

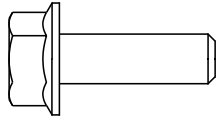

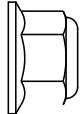
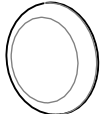
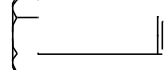

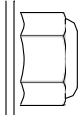
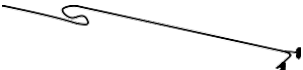
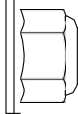
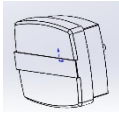


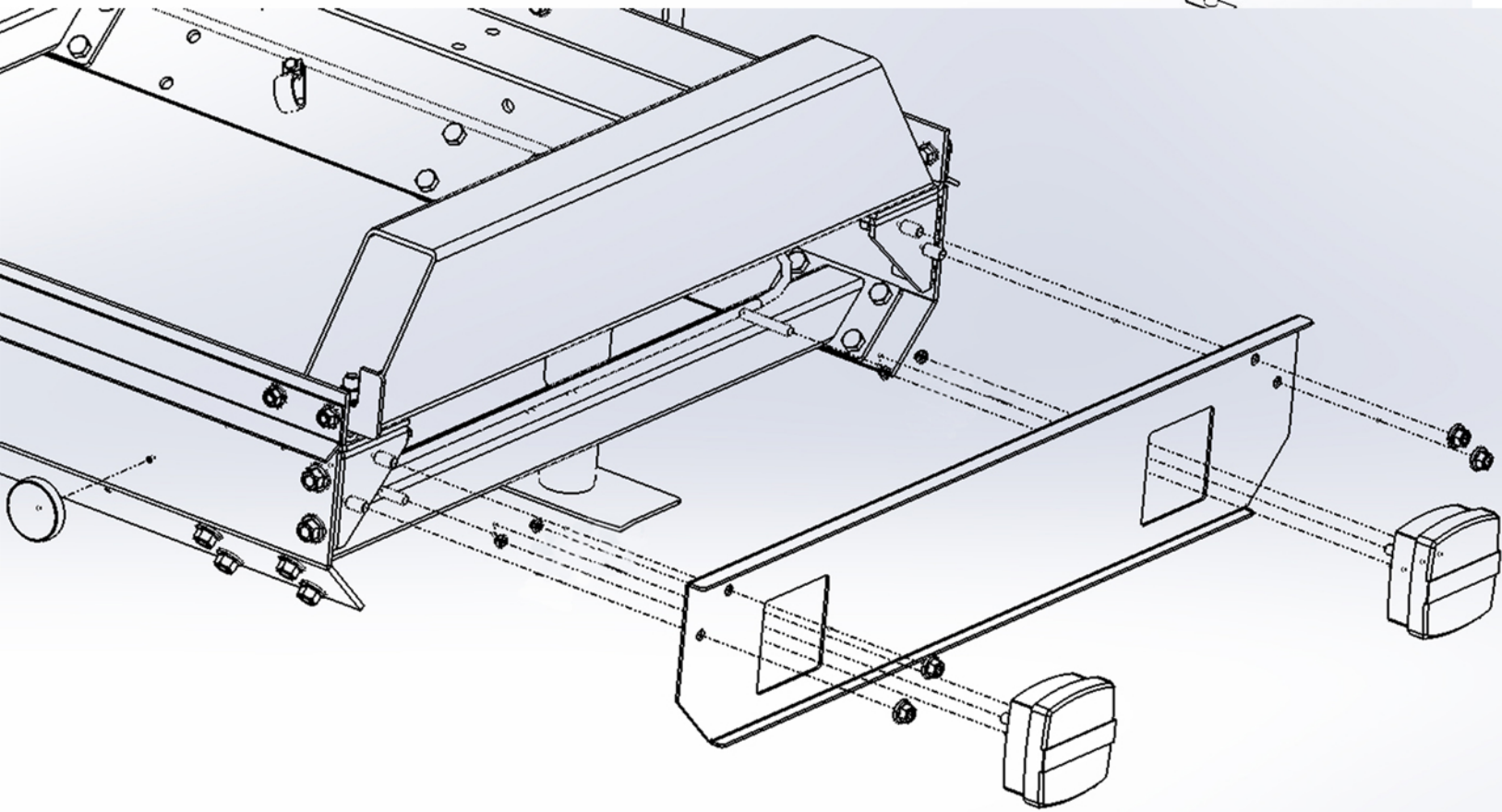
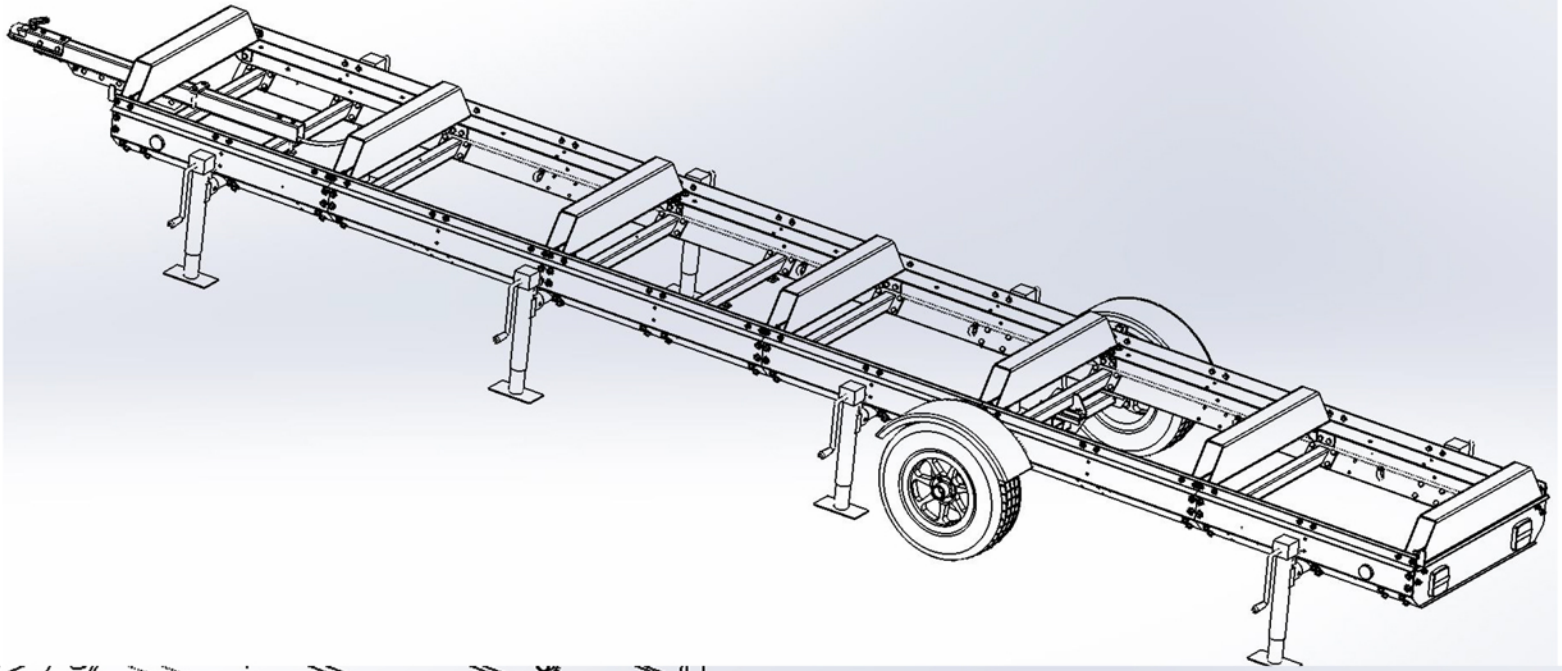


17. LIGHTING

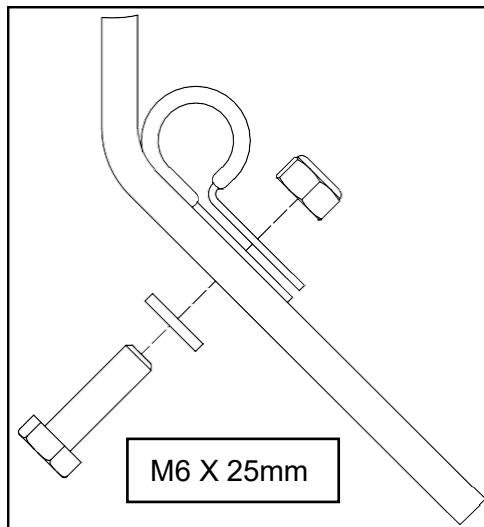
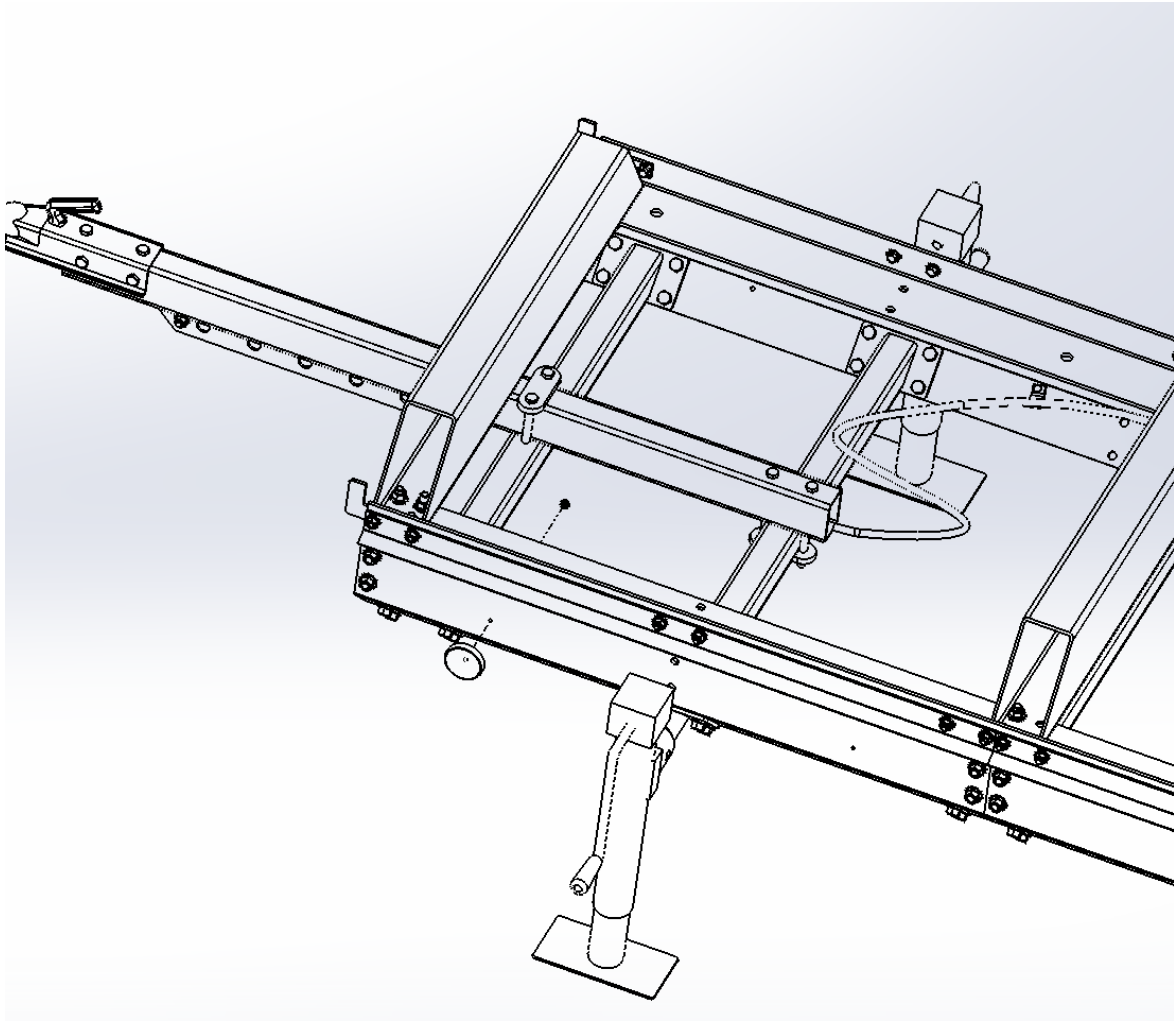
Using the hardware listed below, install the light bar and country appropriate wire harness. Secure tail lights to the light bar using M5 flanged lock nuts before mounting light bar to trailer. Use cable clamps to secure wire harness to side plates down right-side of trailer. Tighten all bolts. The M10 X 160 mm tongue bolts from the previous step can now be tightened after wiring has been routed through the tongue.

On the European version, install the 4 side reflectors, 2 front reflectors, and 2 rear reflector brackets and reflectors as shown on the following pages. There are no red/amber side lights on the European wire harness like the ones included with the North American version.

4x	M10 X 25 mm Flanged Hex Bolt		1x	Light Bar	
4x	M0 Flanged Lock Nut		4x	Front Reflector	
7x	M6 X 25 mm Hex Bolt		7x	Cable Clamp	
7x	M6 Flanged Lock Nut		1x	Wire Harness	
12x	M5 Flanged Lock Nut		2x	rear lights	




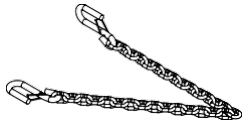
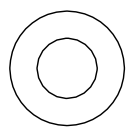

Note: tail lights (North America and Europe) and side lights (North America only) are integral to the wire harness. They are shown exploded for assembly clarity.

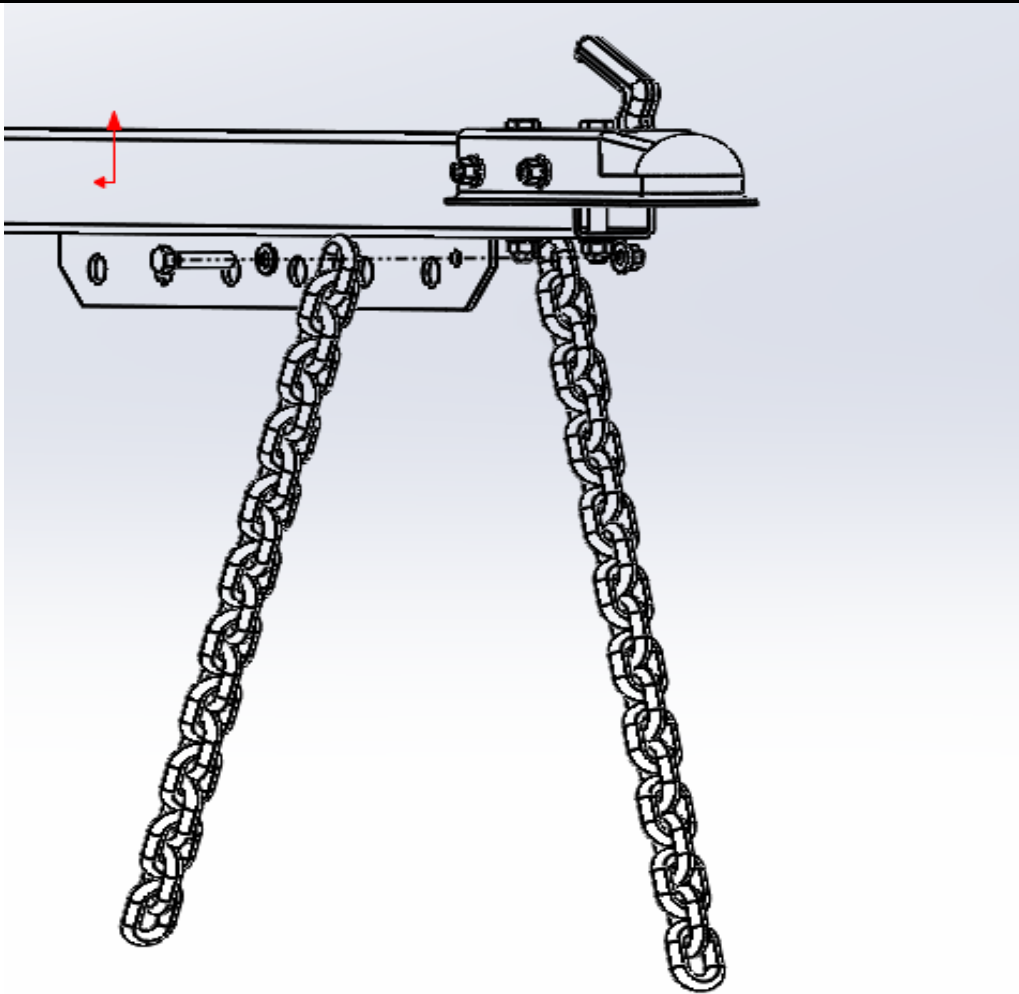


There are 2 cable clamps per short side plate (2) and 4 per long side plate (2) for a total of 12. Cable clamps are installed down the right-hand side of the trailer only. Use the M6 X 20 mm hex bolts, M6 washers, and M6 lock nuts as shown. This applies to both North American and European models.

18. SAFETY CHAIN


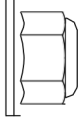
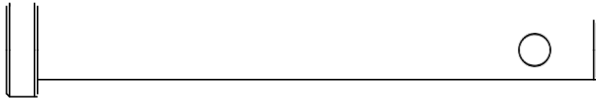

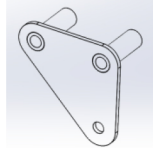
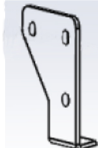
Using the hardware below, install the safety chain on the trailer tongue. This step is not needed for European customers.

1x	M10 X 40 mm Hex Bolt (Not in Europe)		1x	Safety Chain (Not in Europe)	
2x	M10 Flat Washer (Not in Europe)				
1x	M10 Lock Nut (Not in Europe)				

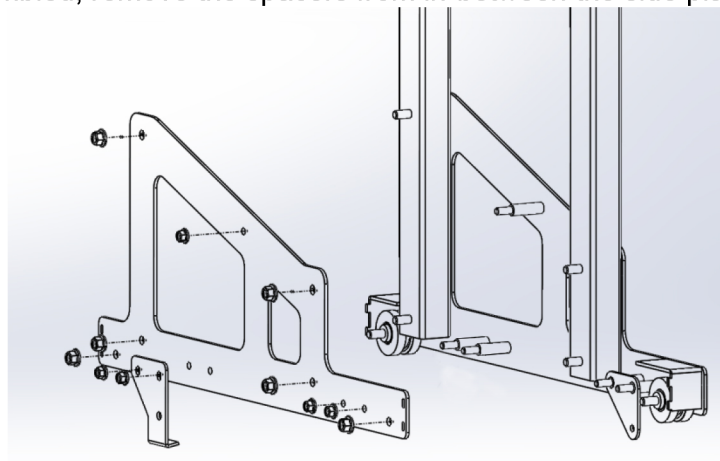


19. HEAD LOCK-DOWN BRACKETS

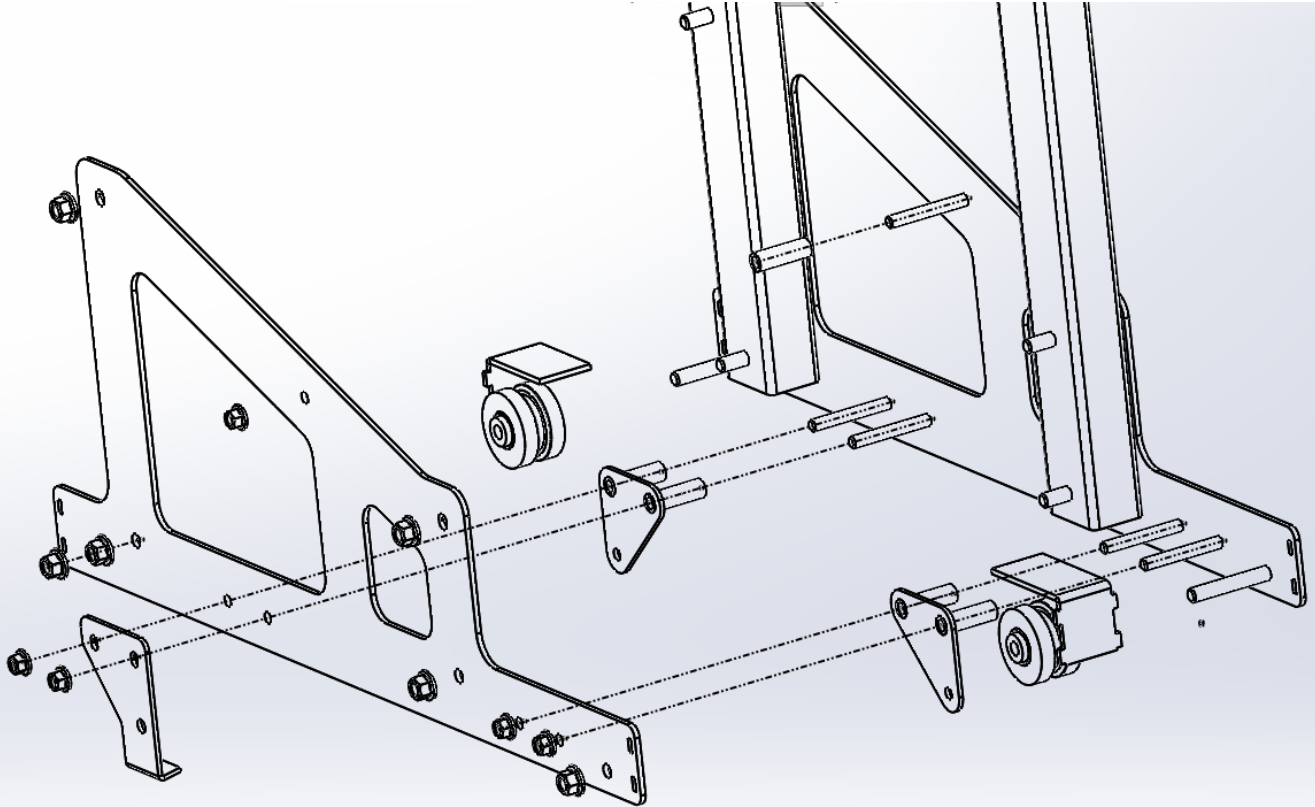
Place the assembled saw head on the trailer. Using the hardware listed below, install the head lock down brackets as shown on the next page. Tighten these bolts to the **specified torque**.

4x	M12 X 80 mm Hex Bolt	
8x	M12 Lock Nut	
4x	Lock-Down Pin	
4x	Linch Pin	
2x	Head Lock- Down Bracket A	
2x	Head Lock- Down Bracket B	

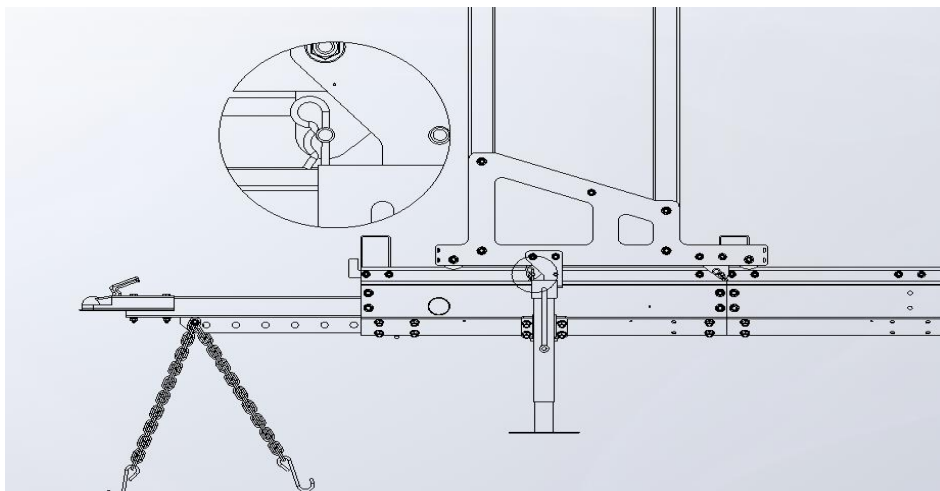
If the saw head is already assembled, remove the spacers from in-between the side plates as shown below.

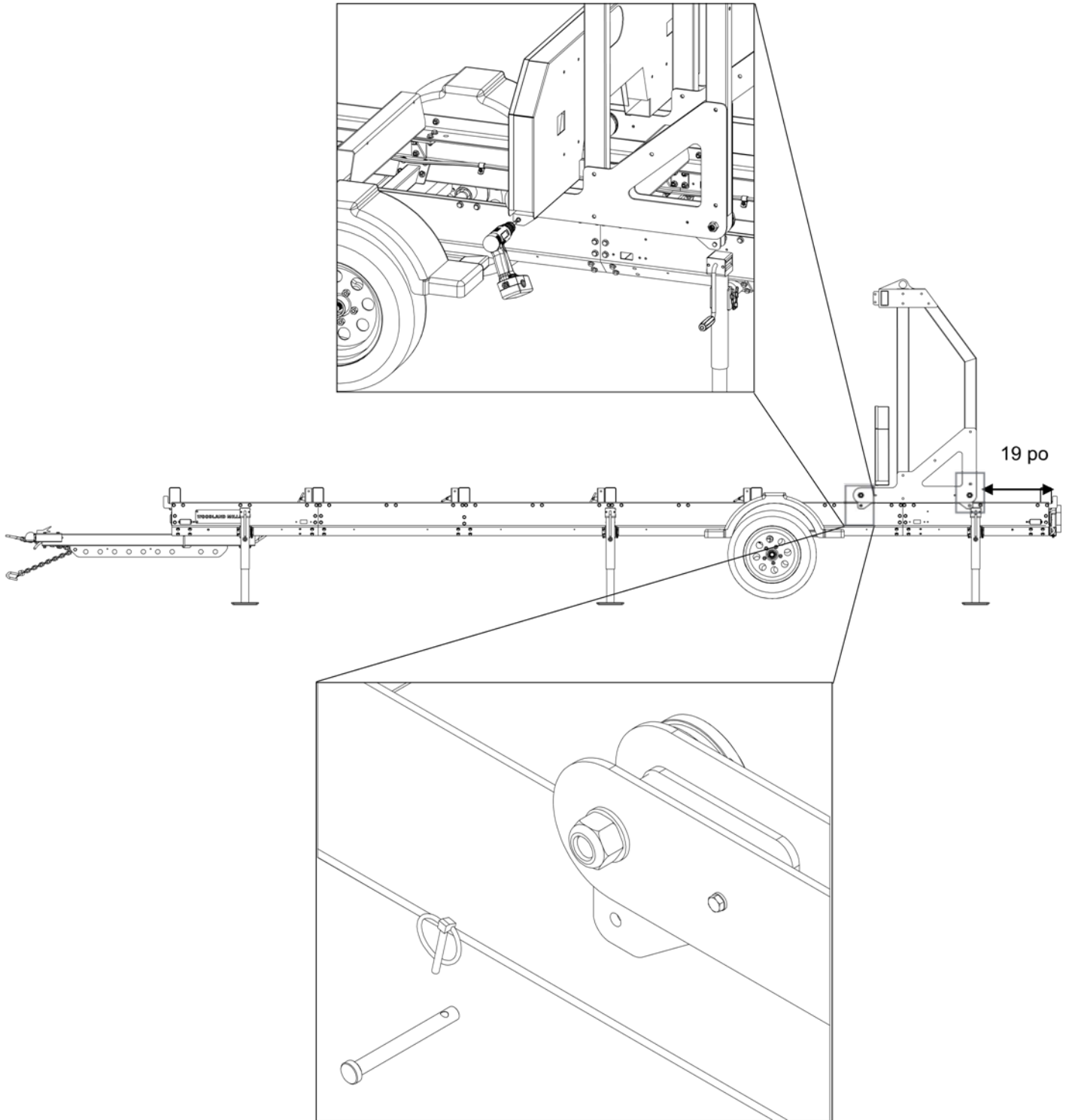


Using the provided M6 x 40 and M6 x 25 mm bolts, install the brackets in place of the spacers. Reuse the four (4) M6 flat washers from the wheel sweepers on the sawmill when replacing the bolts.



Drill four (4) holes for the lock-down brackets using the provided 3/8" drill bit. Measure 19" (48 cm) from the rear edge of the track rail (not the carriage stop) to the rear post of the saw head. Insert a locking pin into each hole as they are drilled. Secure each locking pin with a linch pin.

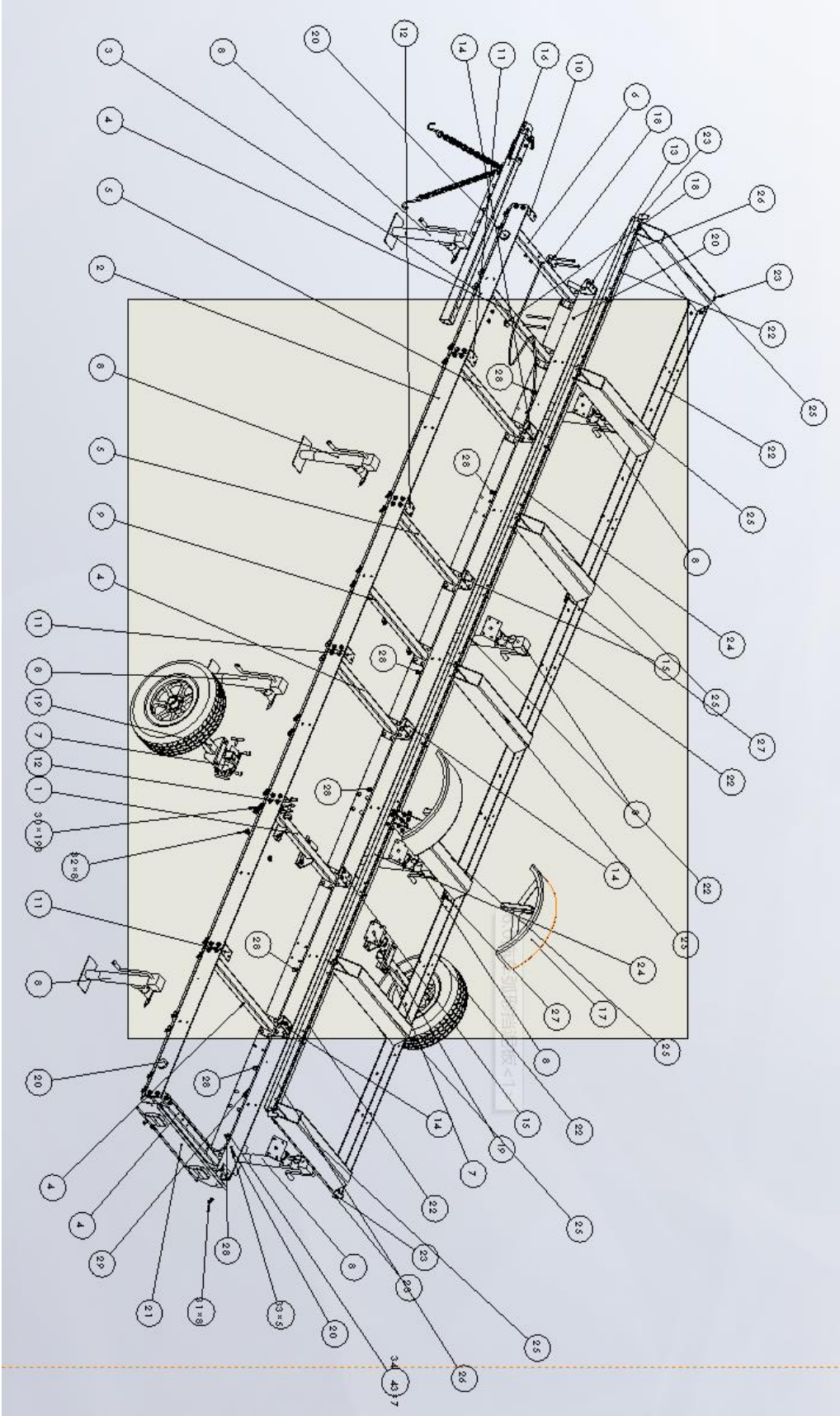




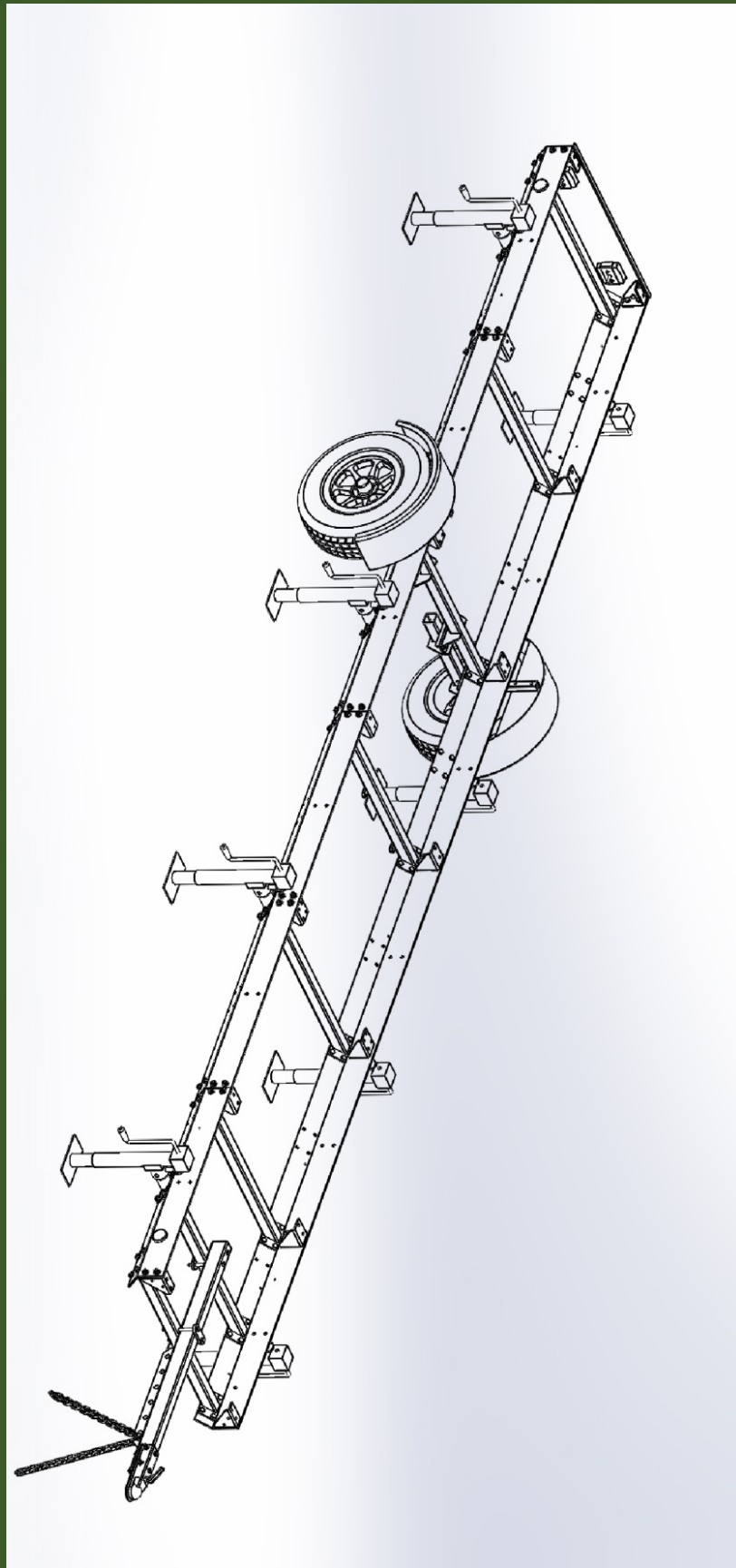
PARTS LIST

No.	Name	Quantity
1	Trailer tyre brace set	1
2	Trailer long side plate	4
3	Trailer short side plate	4
4	Towing standard with cross brace group	4
5	Cross set of wooden legs on trailer	2
6	Trailer traction cross bracing group	2
7	Trailer auxiliary cross brace set	2
8	Trailer lift leg set	8
9	Trailer capstan support set	1
10	Trailer rail connection pile 1	2
11	Trailer rail connection pile 2	3
12	Trailer rail connection pile 3	2
13	Trailer rail connection pile 1(reverse direction)	2
14	Trailer rail connection pile 2(reverse direction)	3
15	Trailer rail connection pile 3(reverse direction)	2
16	Towing unit	1
17	Trailer block	2
18	Trailer towbar retaining plate	4
19	Tow wheel axle set	2
20	Trailer anti-disc	4
21	Trailer rear seal plate	1
22	Guide plate	6
23	Guide baffle	3
24	Length of guide plate	4
25	The wood bridge	7
26	Guide plate	4
27	Guide plate guide plate reinforcement	4
28	Tow wire clip	7
29	cable conductor	1
30	All metal hexagonal flange face locking nut M12	193
31	All metal hexagonal flange face locking nut M10	80
32	All metal hexagonal flange face locking nut M14	8
33	All metal hexagonal flange face locking nut M5	4
34	All metal hexagonal flange face locking nut M6	7
35	T Top silk M10	2
36	Hexagon head bolt with full thread M12×25	112
37	Hexagon head bolt with full thread M12×30	24
38	Hexagon head bolt with full thread M10×150	4
39	Hexagon socket cylindrical head screw M14×25	8
40	Hexagon head bolt with full thread M10×25	4
41	Hexagon head bolt with full thread M6×25	7
42	Hexagon head flange bolt M12×35	57
43	Hexagon head flange bolt M10×25	72

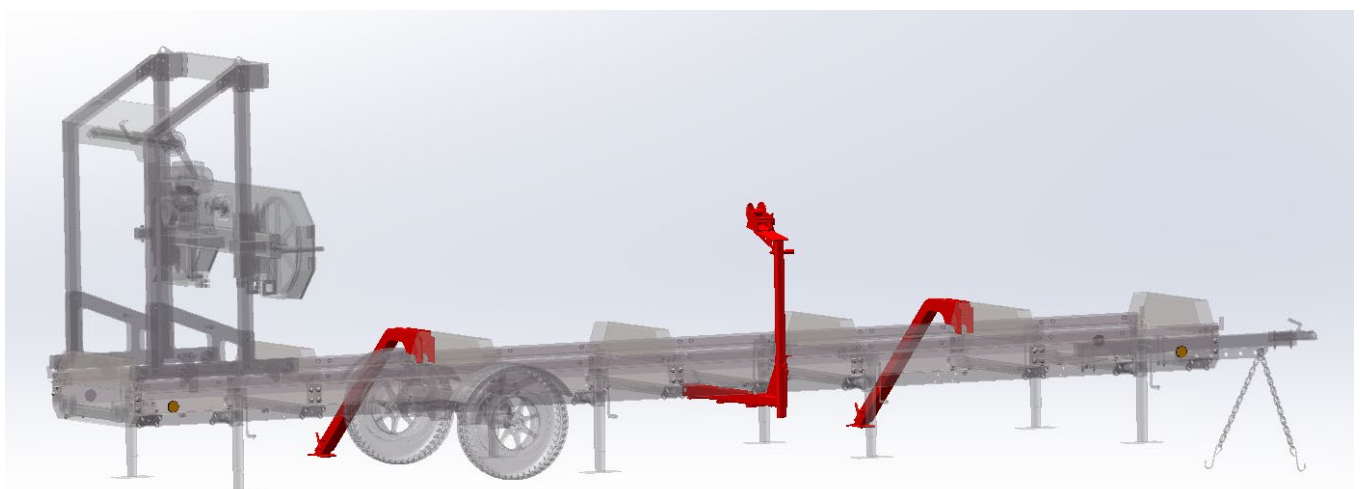
EXPLOSIVE VIEW



COMPLETEASSEMBLY



LOG LOADING WINCH



LOG LOADING RAMP

