BUSHLANDER[™] SAWMILL TRAILER & BUSHLANDER[™] XL (TRAILER EXTENSION)

Trailer Extension Assembly Instructions Included* *Extension sold separately



OPERATOR'S MANUAL



WE GO BEYOND.

The Bushlander[™] and Bushlander[™] XL are *off-road only* sawmill trailers compatible with HM122 sawmills. Bushlander[™] is a trademark of Woodland Mills, Inc.



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INTRODUCTION

Congratulations on your purchase and welcome to Woodland Mills! This manual gives you the necessary information about your Bushlander[™] 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 Woodland Mills, Inc.

0	WNER'S RECORD
B re	lease take a moment to record the following information about your ushlander [™] sawmill trailer. If you need to call for assistance, please be eady to provide your model and serial numbers. This information will allow s to help you more quickly when you call.
Μ	IODEL NUMBER
S	ERIAL NUMBER
D	ATE OF PURCHASE

The Bushlander[™] and Bushlander[™] XL sawmill trailers are compatible with the HM122 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 BushlanderTM and BushlanderTM XL sawmill trailers are <u>off-road</u> trailers 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. If you have any questions relative to a particular application, <u>do not</u> use the trailer until you have first contacted Woodland Mills to determine if it can or should be performed using the product.

For technical questions and replacement parts, please contact Woodland Mills, Inc.



****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.



WARNING!

The Bushlander[™] and Bushlander[™] XL sawmill trailers are for <u>off-</u> <u>road use only</u>.

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.
- Inspect trailer before all trips for any damaged or loose parts.



TECHNICAL SPECIFICATIONS

Item	Specification
Trailer Axle	Fixed Axle Design
Trailer Wheels	4 Bolts @ 3-15/16 in [100 mm] & 22X11-10 ATV Tires
Tire Pressure	Refer to Tire
Wheel Nut Torque	80 ft•lb [110 N•m]
Trailer Ball Coupler	2 in [50 mm]
Finish	Powder Coat Paint / Galvanized Steel
Safety	Locking pins and safety straps to secure sawhead while travelling

COMPATIBILITY

The Bushlander[™] sawmill trailer is designed to work with the following sawmill models:

Sawmill Model	Model Years	Trailer Compatible?
HM122	2019 & Earlier	Yes
	2020 & Newer	Yes
	Model Years	Extension Compatible?
		-
	2019 & Earlier	Yes

INTENDED USE

The Bushlander[™] and Bushlander[™] XL sawmill trailers are designed for-*off-road use only*.



BOLT TORQUE SPECIFICATIONS

BOLT TORQUE WARNING!

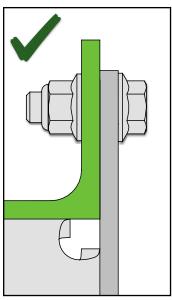


The torque specifications listed in the table below do <u>not</u> apply when bolting through hollow components like tubing. Torquing to spec can deform the tubing, possibly ruining the component(s).

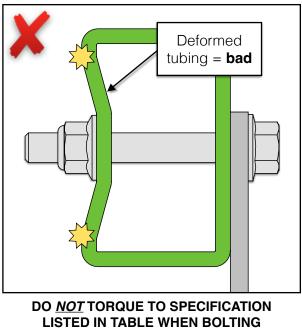
Note: The torque specifications do <u>not</u> apply to the sawmill assembly. Follow the instructions in the HM122 Sawmill Operator's Manual when assembling the carriage and sawhead.

Bolt (Thread Size)	Torque (Class 10.9)
M5	78 in•lb [9 N•m]
M6	133 in•lb [15 N•m]
M8	<mark>333 in∙lb</mark> [38 N•m]
M10	53 ft•lb [72 N•m]
M12	93 ft•lb [126 N•m]

* Values in **RED** are *inch* pounds [in•lb]



TORQUE TO SPECIFICATION LISTED IN TABLE.

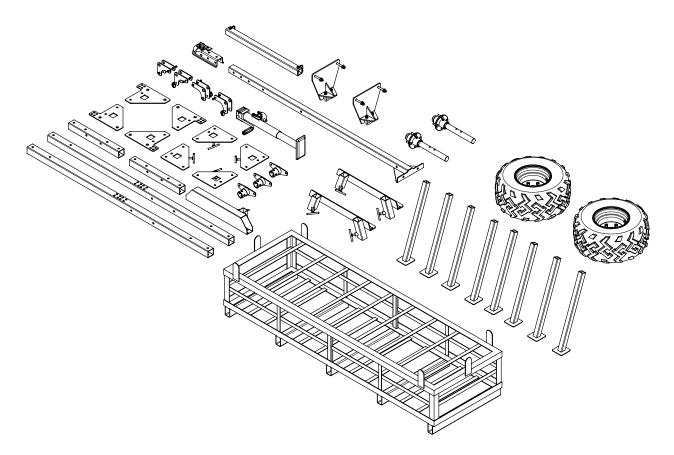


THROUGH TUBING. SNUG HARDWARE, THEN TIGHTEN A FURTHER $\frac{1}{4} - \frac{1}{2}$ TURN.



UNPACKING

Remove all the parts from the steel crate. Discard the crate as it is no longer needed.



COMPONENT LISTS: STANDARD TRAILER

Verify all component and hardware quantities are correct prior to assembling the trailer.

2x	Side Beam [0002115]	1x	Tongue [0002123]	A A A A A A A A A A A A A A A A A A A
2x	End Beam [0002116]	3x	Jack Mount [0002249]	0000
2x	Top Gusset 1 [0002118]	1x	Hitch Ball Coupler (North America) [0001381]	
2x	Top Gusset 2 [0002117]	1x	Round Locking Pin* [0004728]	
2x	Bottom Gusset 1 [0002119]	2x	Axle Bracket [0002839]	
2x	Bottom Gusset 2 [0002120]	1x	Axle Housing [0002841]	
4x	T-Bolt M10 X 90 mm [0002125]	2x	Axle Assembly	
8x	Support Leg [0002124]	2x	Square Locking Pin [0004723]	
1x	Reverse Mid Bunk [0002122]	1x	Left-Hand Wheel [22X11-10L]	
2x	End Bunk [0002121]	1x	Right-Hand Wheel [22X11-10R]	

Bushlander™ Operator's Manual



4x	Lock-Down Pin [0001394]		1x Hitch Ball Coupler (Europe) [0001702]
8x	Lock-Down Plate [0001990]	0	
1x	Drill Bit 10 mm [0004742]		
5x	T-Bolt M10 X 40 mm [0001059]		
3х	U-Bolt 50 X 75 mm [0005935]		* Round Locking Pin not applicable on European trailers Components in RED are specific to European trailers
4x	Linch Pin [0004720]		
1x	Swivel Jack [0001385]		
1x	Ratchet Strap [0002810]	Contraction of the second seco	



TO-SCALE STANDARD TRAILER HARDWARE

BOLTS & SCREWS

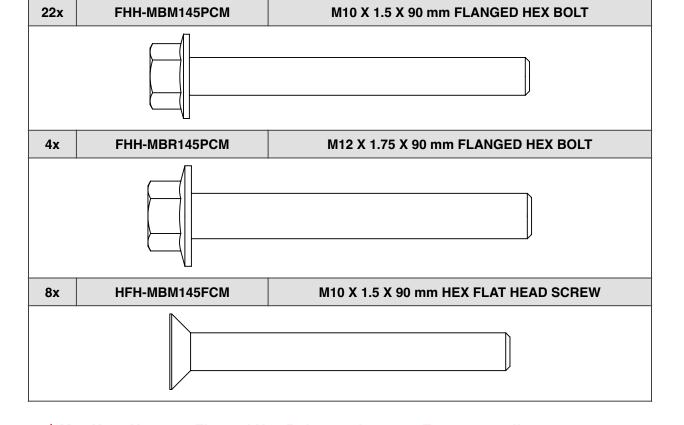
Hardware graphics are printed at 1:1 scale for ease of identification. Simply place the hardware over the image in the tables to verify it is the correct size.

4x	HHB-MBE080FCJ	M6 X 1 X 25 mm HEX BOLT
4x	HHB-MBE095FCJ	M6 X 1 X 40 mm HEX BOLT
2x	FHH-MBM080FCM	M10 X 1.5 X 25 mm FLANGED HEX BOLT
16x	FHH-MBM085FCM	M10 X 1.5 X 30 mm FLANGED HEX BOLT
2x	FHH-MBM125PCM*	M10 X 1.5 X 70 mm FLANGED HEX BOLT
4x	FHH-MBM135PCM**	M10 X 1.5 X 80 mm FLANGED HEX BOLT

Ruler scales are also provided below to double-check bolt and screw lengths when necessary.

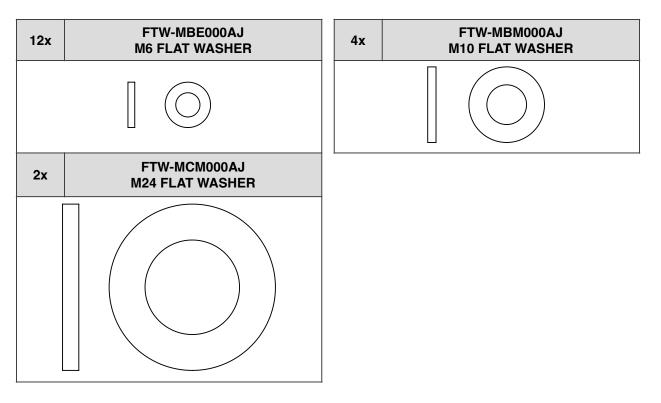
SCALES

* M10 X 1.5 X 70 mm Flanged Hex Bolt quantity 4x on European trailers ** M10 X 1.5 X 80 mm Flanged Hex Bolt quantity 2x on European trailers



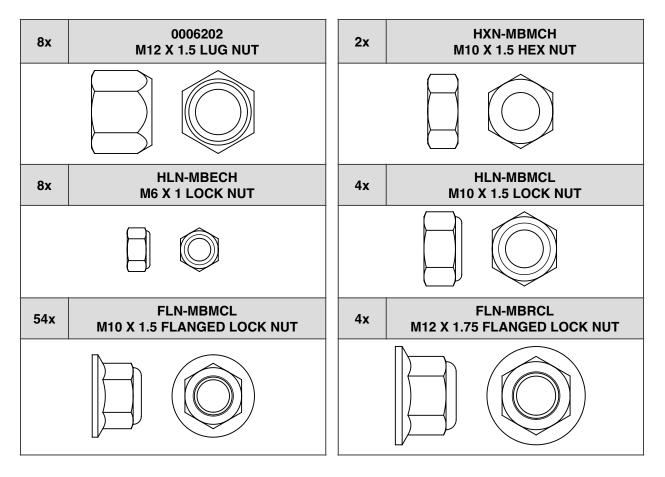


WASHERS





NUTS





COMPONENT LISTS: TRAILER EXTENSION

For customers with Bushlander XL trailer extensions only. Ignore this section if no extension was purchased.

2x	Track Rail [0003582]	ter and termination of the second sec	2x	Spacer 16 X 20 mm Lg [0002697	
1x	Mid Bunk [0003580]		1x	Log Clamp Shaft [0001460]	22
1x	Hinge Bunk Assembly		1x	Log Clamp Arm [0001461]	
2x	Hook Latch [0002338]		1x	Log Clamp [0001462]	
6x	Hinge Bunk Shim [0003583]				
2x	Rest Plate [0002154]				
4x	Support Leg [0002124]				
5x	T-Bolt M10 X 40 mm [0001059]				
2x	Lock-Down Bracket [0002311]				

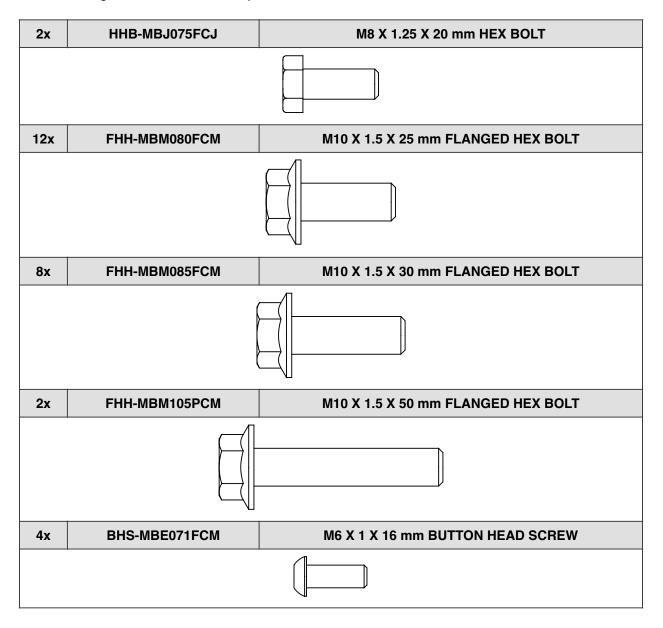


TO-SCALE TRAILER EXTENSION HARDWARE

BOLTS & SCREWS

For customers with Bushlander XL trailer extensions only. Ignore this section if no extension was purchased.

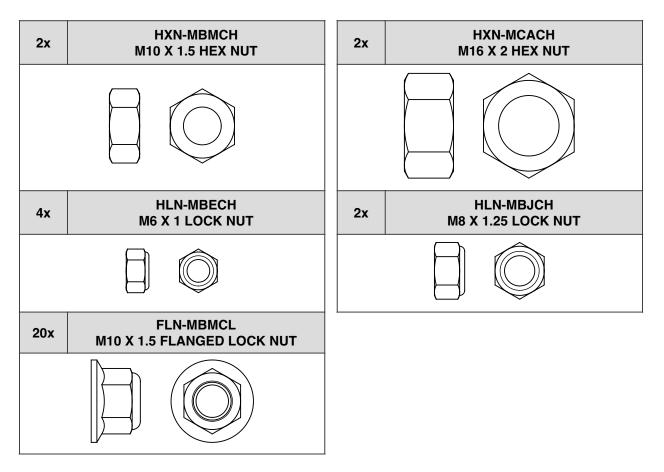
Hardware graphics are printed at 1:1 scale for ease of identification. Simply place the hardware over the image in the tables to verify it is the correct size.





2x	CNS-MCA105GR	M16 X 2 X 50 mm CONE POINT SET SCREW

NUTS





COMPONENT LISTS: SAWMILL

These components from the sawmill crate are required to build the standard trailer. They do not ship with the Bushlander[™] trailer.

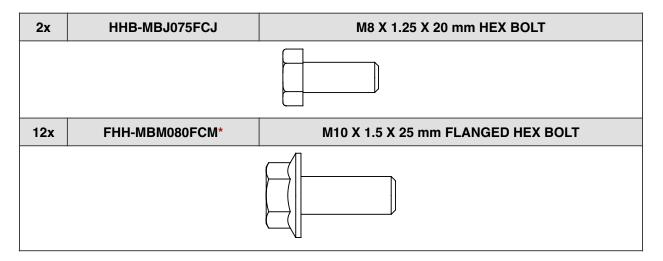
4x	Track Rail [0001459]	in the second se	1x	Log Clamp Shaft [0001460]	22
2x	Reinforcement Plate [0001463]	0000	1x	Log Clamp Arm [0001461]	
4x	Carriage Stop [0001055]		1x	Log Clamp [0001462]	
2x	T-Bolt M10 X 40 mm [0001059]		2x	Mid Bunk [0001458]	



TO-SCALE SAWMILL HARDWARE

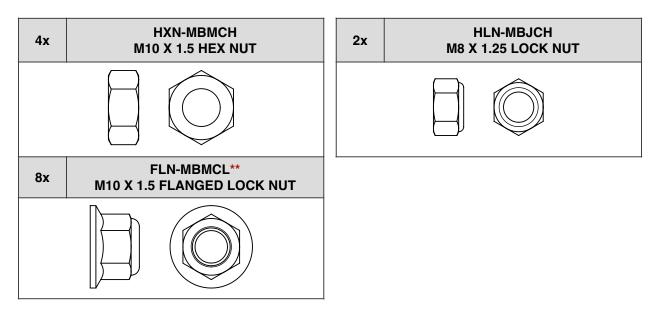
Almost none of the hardware from the sawmill is used to build the trailer with the exception of the log clamp, carriage stops, and log support hardware listed below.

BOLTS & SCREWS



* Only 8x M10 X 1.5 X 25 mm Flanged Hex Bolts from the sawmill crate are required for the Bushlander[™] XL.

NUTS



** Only 4x M10 X 1.5 Flanged Lock Nuts from the sawmill crate are required for the Bushlander[™] XL.



TRAILER ASSEMBLY

1. TOOLS REQUIRED

ΤοοΙ	Specification
Phillips Head Screwdriver	No. 3
Wrench/Socket	8 mm
Wrench/Socket	9 mm
Wrench/Socket	10 mm
Wrench/Socket	13 mm
Wrench/Socket	14 mm
Wrench/Socket	15 mm
Wrench/Socket	18 mm
Adjustable Wrench	Variable
Torque Wrench	Capable of 93 ft•lb [126 N•m]
Drill	Corded or cordless



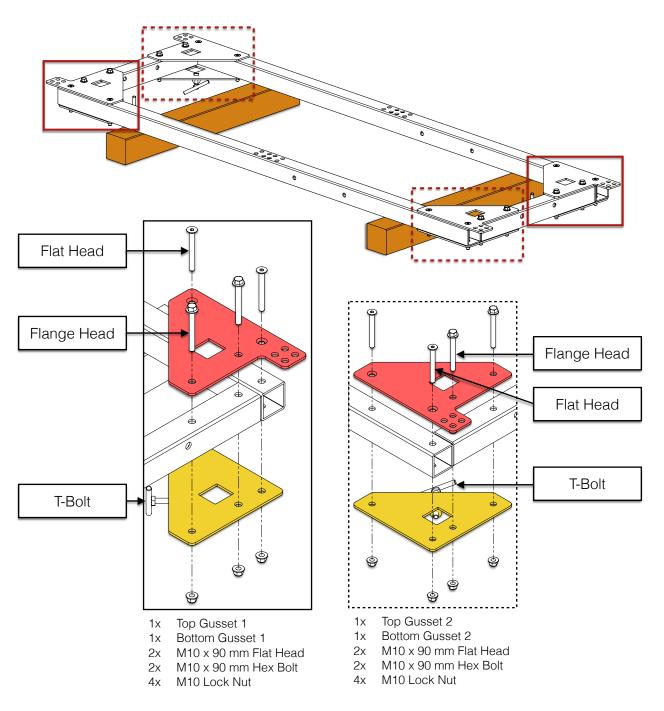
2. TRAILER BOX FRAME

Using the hardware listed below, assemble the trailer box frame as shown on the next page.

8x	M10 X 90 mm Flanged Hex Bolt	2x	Trailer Side Beam	
8x	M10 X 90 mm Flat Head Screw	2x	Trailer End Beam	
16x	M10 Flanged Lock Nut	2x	Top Gusset 1	
		2x	Top Gusset 2	
		2x	Bottom Gusset 1	
		2x	Bottom Gusset 2	
		4x	M10 X 90 mm T-Bolt	

Ensure the frame is $25-\frac{1}{2}$ in [648 mm] wide and $74-\frac{3}{8}$ in [1890 mm] long, measuring diagonally to check for squareness. Torque all bolts per the table in section, <u>**BOLT TORQUE**</u> <u>**SPECIFICATIONS**</u>.





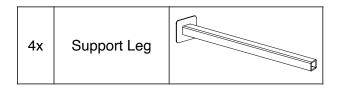
Assemble the trailer box frame on wood blocks for ease of assembly. The diagonally opposite corners are the same. Note that the two (2) flat head screws in each corner are assembled through the countersunk holes.

Grease the M10 X 90 mm T-bolts before threading them into the bottom gussets.

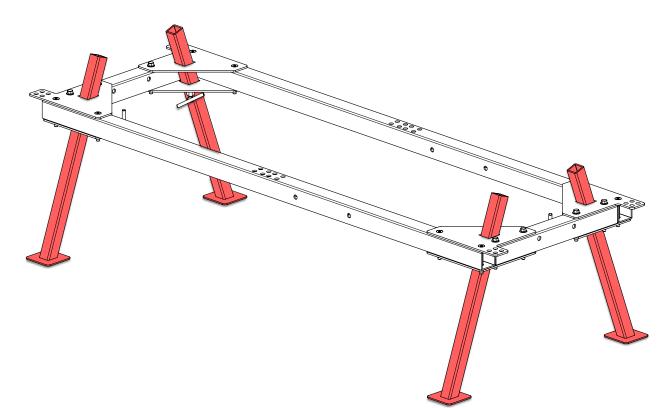


3. SUPPORT LEGS

Use the component listed in the table below to raise and level the trailer frame.



Lift one end of the frame and slide two (2) support legs up through the bottom of each pair of corner gussets. Secure the legs in place using the T-bolts on the bottom gussets. Then lift the other end, insert the two (2) remaining legs, and level the frame along both trailer beams. Tighten the T-bolts once level.



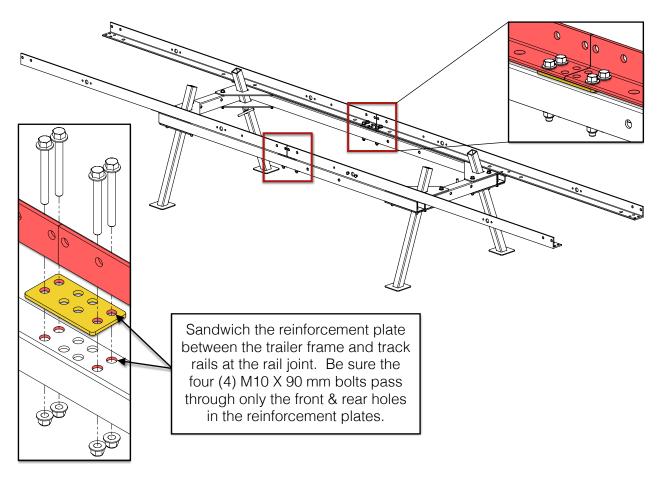


4. TRACK RAILS

Using the hardware listed below, attach the track rails to the trailer box frame. Do not fully tighten these bolts.

8x	M10 X 90 mm Flanged Hex Bolt	2x	Track Rail	in the second seco
8x	M10 Flanged Lock Nut	2x	Reinforcement Plate	

The track rails and reinforcement plates are not included with the trailer assembly—they 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 completely disassembled and these assembly instructions followed.

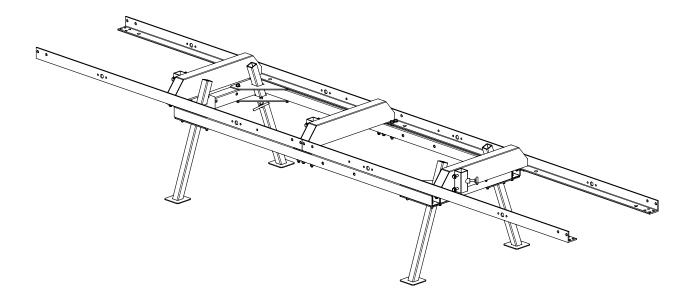




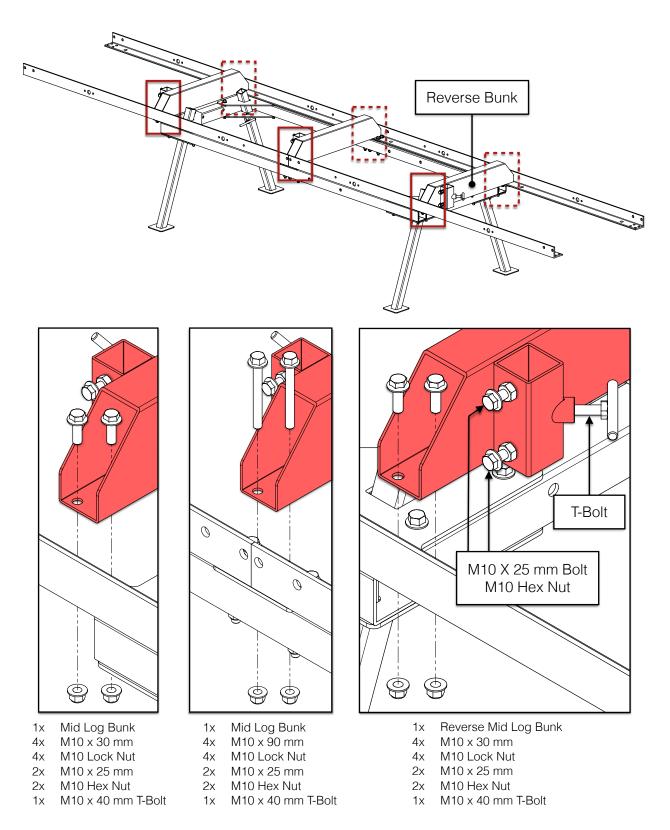
5. MIDDLE BUNKS

Using the hardware listed below, install the three middle bunks as shown. Note that the reverse mid bunk should be installed towards the rear of the trailer. Do not tighten these bolts.

4x	M10 X 90 mm Flanged Hex Bolt	3	Зх	M10 X 40 mm T-Bolt	
8x	M10 X 30 mm Flanged Hex Bolt	2	2x	Mid Bunk	
6x	M10 X 25 mm Flanged Hex Bolt	1	Ix	Reverse Mid Bunk	
6x	M10 Hex Nut				
12x	M10 Flanged Lock Nut	4			







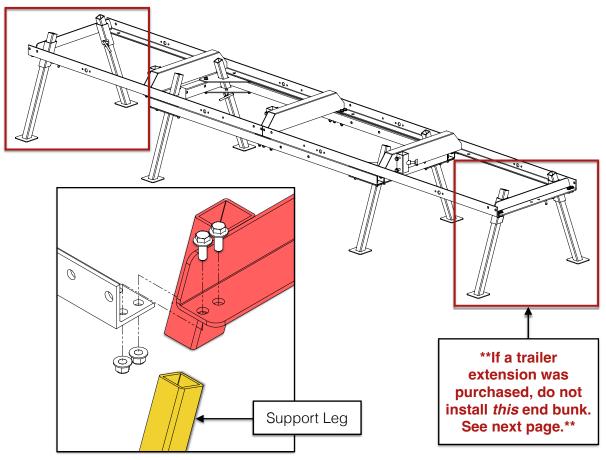


6. END BUNKS

Using the following hardware, install the end bunks as shown. Ensure that the support legs are inserted into the leg holder portion of the end bunk prior to attaching the end bunk to the track rails.

8x [4x]	M10 X 30 mm Flanged Hex Bolt	2x [1x]	End Bunk	
8x [4x]	M10 Flanged Lock Nut	4x [2x]	Support Leg	
4x [2x]	M10 X 40 mm T-Bolt	* If a trailer extension was purchased refer to quantities in brackets [].		

Ensure that the track is 26 in [660 mm] wide, measure diagonally to check for squareness. Torque all bolts from steps 5 to 7 per the table in section, *BOLT TORQUE SPECIFICATIONS*.





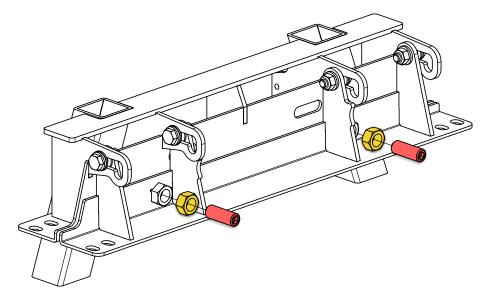
HINGE BUNK

Hinge bunk installation. For customers with Bushlander XL trailer extensions only. Proceed to section, *TONGUE*, on page 31 if no extension was purchased.

The hinge bunk comes partially assembled. Assemble the hardware and components from the table below to the hinge bunk.

2x	M16 X 50 mm Cone-Point Set Screw	2x	Hook Latch	C C C C C C C C C C C C C C C C C C C
2x	M16 Hex Nut	2x	M10 X 40 mm T-Bolt	
4x	M6 X 16 mm Button Head Screw	1x	Hinge Bunk Assembly	
4x	M6 Lock Nut			

Install both of the M16 X 50 mm set screws and M16 hex nuts into the weld nuts on the hinge bunk as shown. Do not fully tighten the nuts as the hinge will be adjusted using the set screws in a later step.

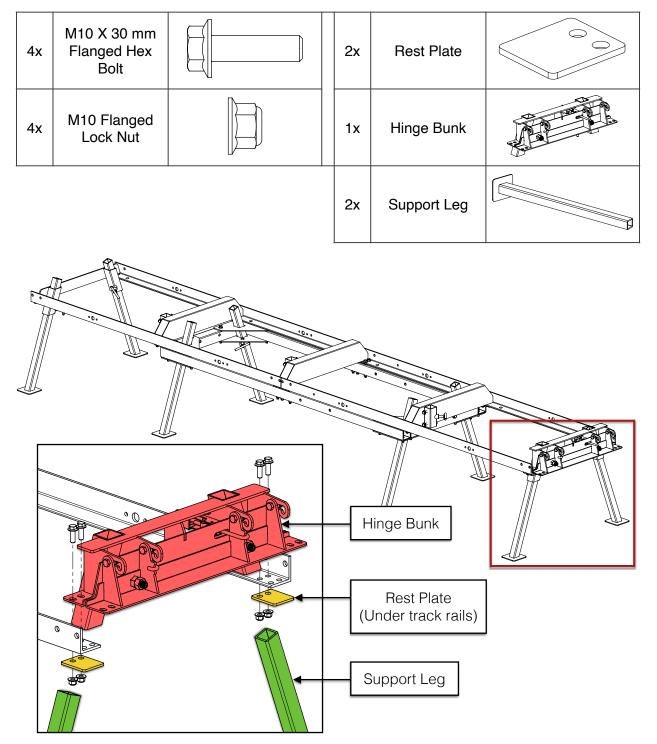




() On the other side of the hinge bunk, assemble one of the hook latches using two (2) M6 X 16 mm button head screws and M6 lock nuts. The hook portion of the latch passes through the slot in the bunk. Fully tighten the hardware. Assemble the other hook latch to the opposite side of the hinge bunk. It is not necessary to secure the latch hooks to the other side of the hinge bunk. 16 Thread one M10 X 40 mm T-Bolt into each of the leg sleeves. Do not thread them too far as to prevent the support legs from passing through the sleeves.



Assemble the hinge bunk to the rear end of the track rails using four (4) M10 X 30 mm bolt and M10 flanged lock nuts. Ensure the two (2) rest plates are assembled against the bottom face of the track rails.



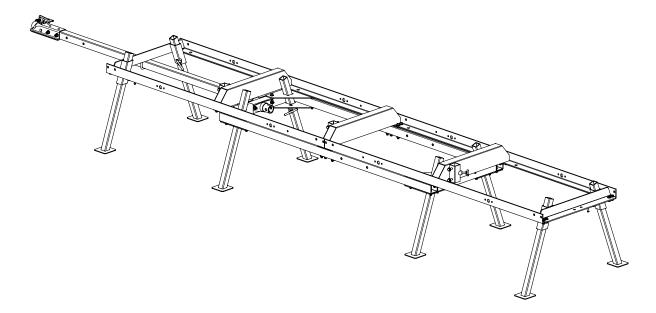
Continue with the trailer assembly after the hinge bunk is installed.



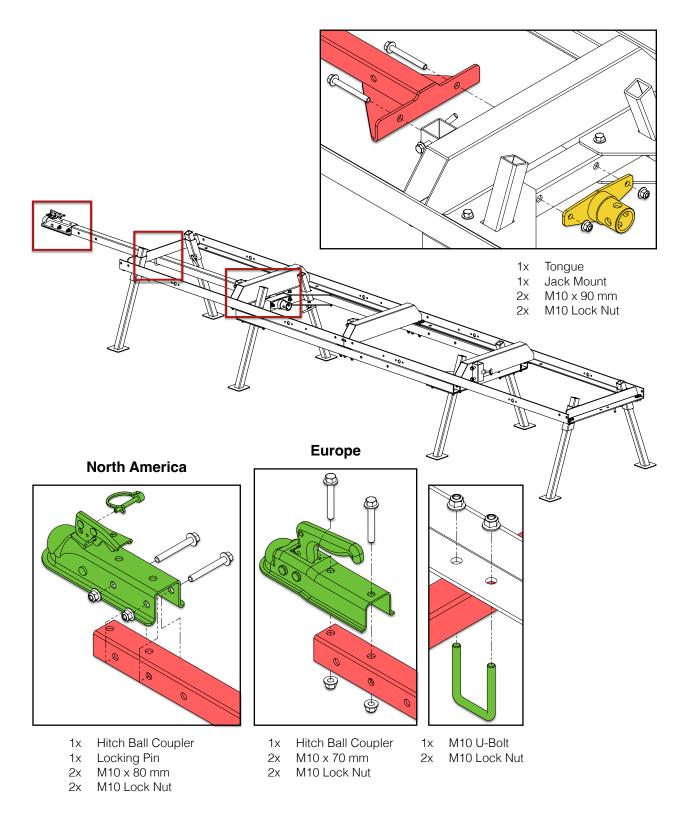
7. TONGUE

Using the hardware listed below, install the tongue and the hitch ball coupler as shown. Torque all bolts per the table in section, *BOLT TORQUE SPECIFICATIONS*.

2x	M10 X 90 mm Flanged Hex Bolt		1x	Tongue	A A
2x	M10 X 80 mm Flanged Hex Bolt [North America]		1x	Jack Mount	0000
2x	M10 X 70 mm Flanged Hex Bolt [Europe]		1x	Hitch Ball Coupler [North America]	0000
1x	M10 X 50 X 70 mm U-Bolt		1x	Hitch Ball Coupler [Europe]	00
6x	M10 Flanged Lock Nut		1x	Round Locking Pin [North America]	





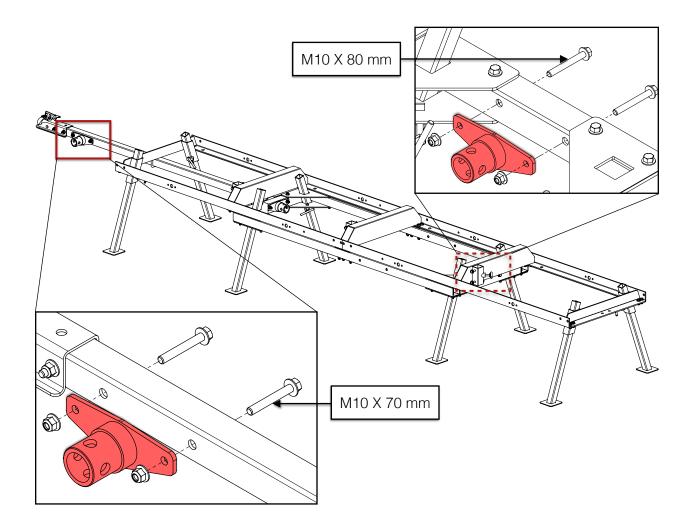




8. JACK MOUNTS

Using the hardware listed below, install the two remaining jack mounts as shown. Torque all bolts per the table in section, *BOLT TORQUE SPECIFICATIONS*.

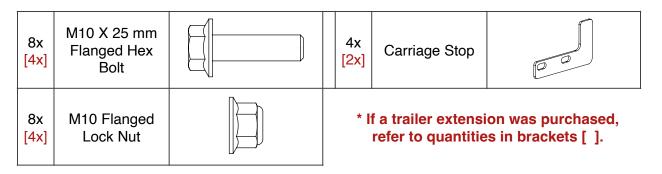
2x	M10 X 80 mm Flanged Hex Bolt	4x	M10 Flanged Lock Nut	
2x	M10 X 70 mm Flanged Hex Bolt	2x	Jack Mount	0000



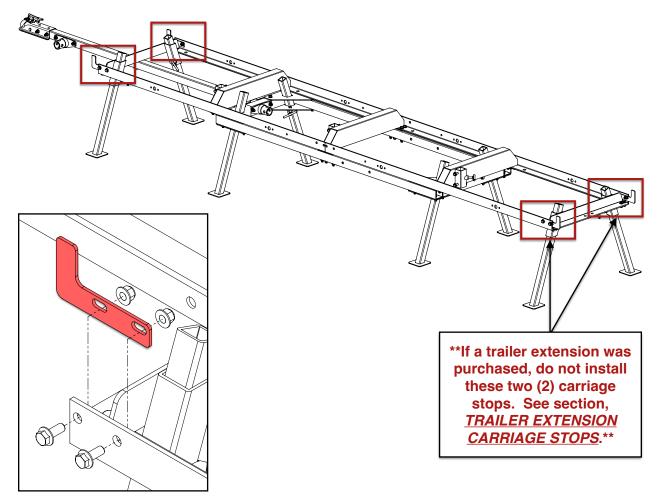


9. CARRIAGE STOPS

Using the hardware listed below, install the carriage stops as shown. The carriage stops are not included in this assembly—they are found in the sawmill crate. Torque all bolts per the table in section, **BOLT TORQUE SPECIFICATIONS**.



Note that the carriage stops are assembled to the *inside* face of the track rail.



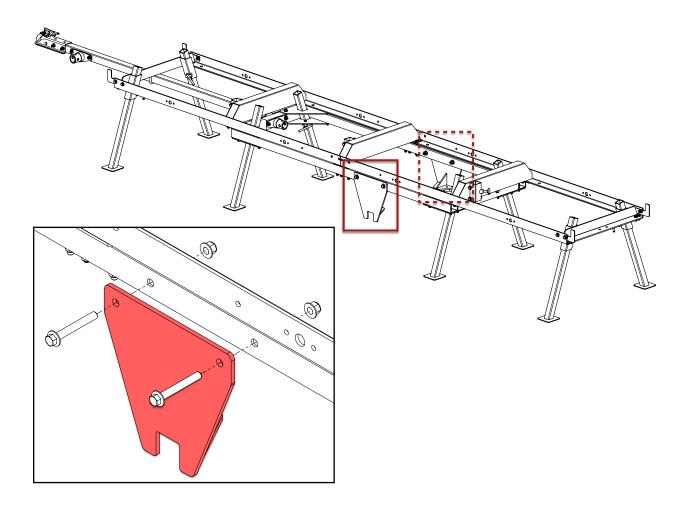


10. AXLE BRACKETS

Using the hardware listed below, install the axle brackets as shown. Torque all bolts per the table in section, *BOLT TORQUE SPECIFICATIONS*.

4x	M12 X 90 mm Flanged Hex Bolt	2x	Axle Support	
4x	M12 Flanged Lock Nut			

Assemble the axle supports to both side beams as shown below.

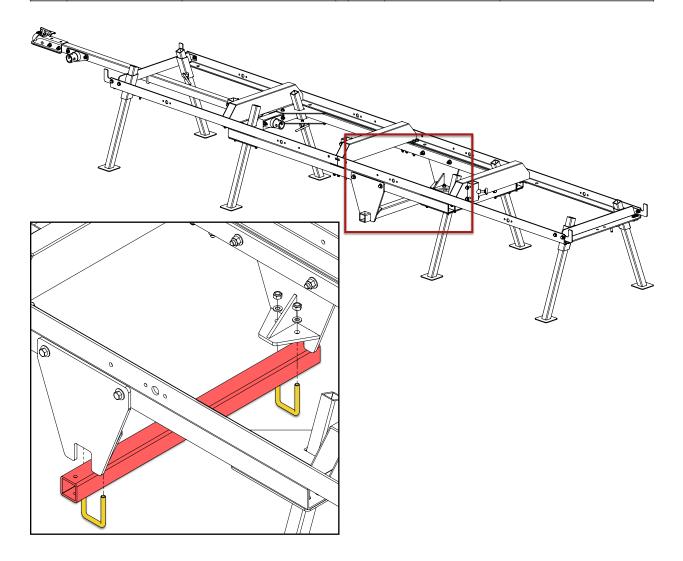




11. AXLE HOUSING

Using the hardware listed below, install the axle housing as shown. Torque all bolts per the table in section, *BOLT TORQUE SPECIFICATIONS*.

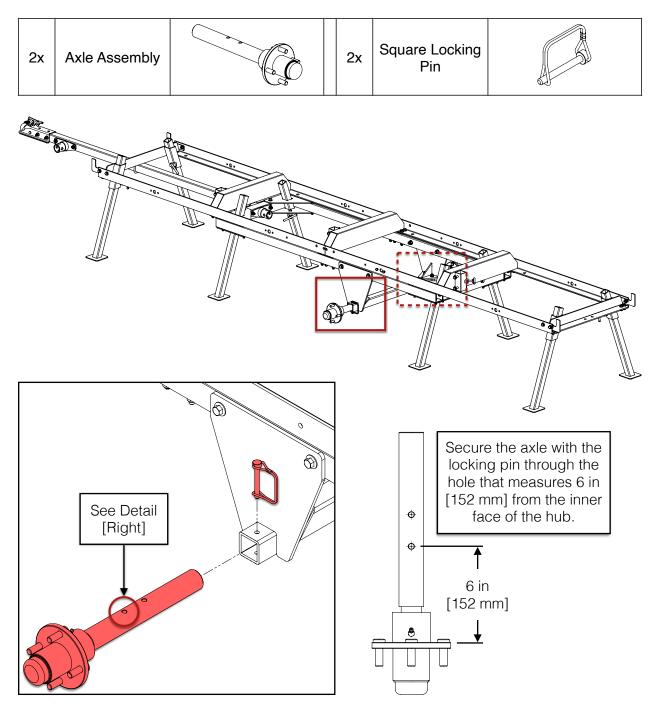
2x	M10 X 50 X 75 mm U-Bolt		4x	M10 Flat Washer	
4x	M10 Flanged Lock Nut		1x	Axle Housing	





12. AXLES

Using the hardware listed below, install the axles in the axle housing. Note that during milling, the axle can be removed by reversing this step. Torque all bolts per the table in section, <u>BOLT</u> <u>TORQUE SPECIFICATIONS</u>.

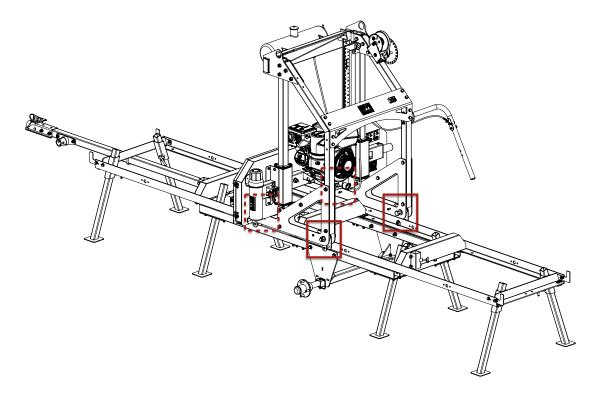




13. HEAD LOCK-DOWN PLATES

Place the assembled sawhead on the trailer. Using the hardware listed below, install the head lock down plates as shown on the next page. Torque all bolts per the table in section, <u>**BOLT**</u> <u>**TORQUE SPECIFICATIONS**</u>.

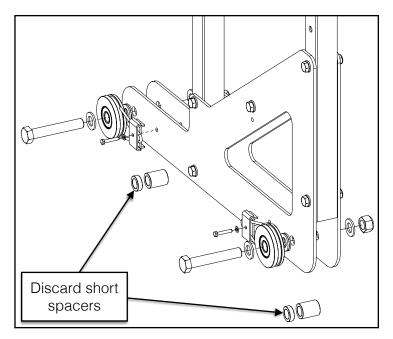
4x	M6 X 40 mm Hex Bolt		4x	Lock-Down Pin	00
4x	M6 X 25 mm Hex Bolt		4x	Linch Pin	
16x	M6 Flat Washer	\bigcirc	8x	Head Lock- Down Plate	() () () () () () () () () () () () () (
8x	M6 Lock Nut		1x	10 mm Drill Bit	





LOCK-DOWN PLATE INSTALLATION

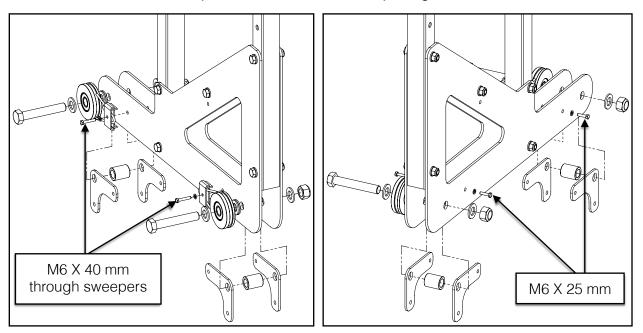
Remove the eight (8) spacers from the carriage wheel axles and discard the four (4) short spacers. Only the four (4) tall spacers will be reused in the next steps.



Older model sawmills (pre-2020) used a single spacer design between the carriage plates.

Replace these with the supplied spacer kit—part number 0003702.

Using the provided M6 X 40 mm and M6 X 25 mm bolts, install the lock-down plates in place of the short spacers with the taller spacer sandwiched between. Reuse the four (4) M6 flat washers from the wheel sweepers on the sawmill when replacing the bolts.

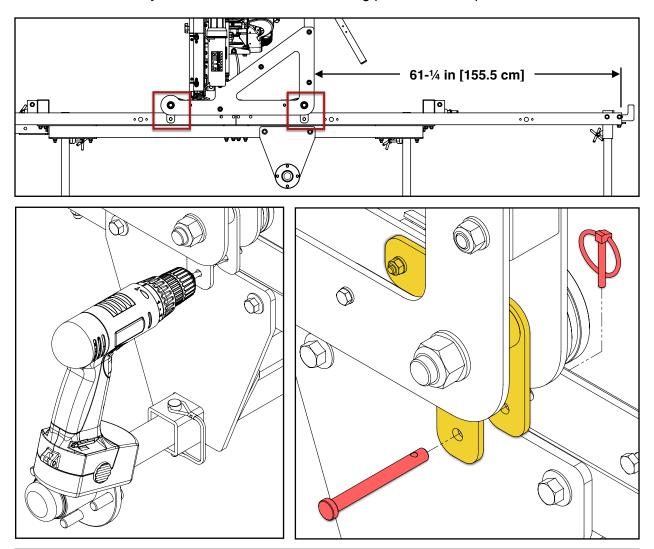




DRILLING LOCK-DOWN HOLES FOR STANDARD TRAILER

Do not drill the holes below for the lock-down brackets if a Bushlander™ XL trailer extension was purchased. Follow the directions in section, <u>DRILLING LOCK-DOWN</u> <u>HOLES FOR TRAILER EXTENSION</u>, on page 58.

Place the sawhead on the trailer ensuring it rolls freely along the rails. Measure $61-\frac{1}{4}$ in [155.5 cm] from the rear edge of the track rail—*not* the carriage stop—to the rear post of the sawhead and drill four (4) holes in the track rails using the provided 10 mm drill bit. Insert a locking pin into each hole as they are drilled. Secure each locking pin with a linch pin.





WARNING!

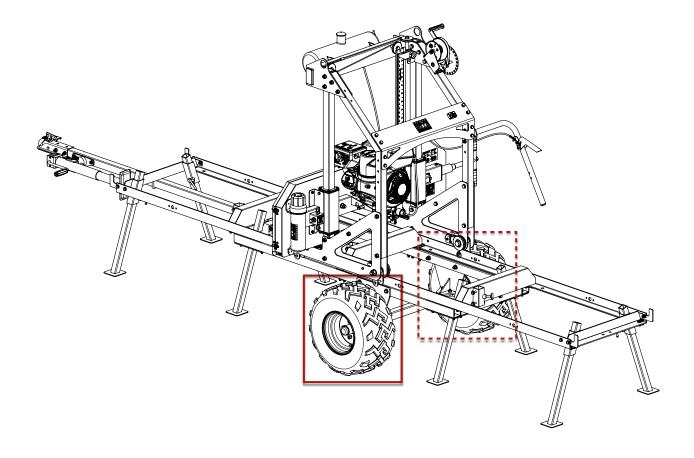
Use cutting oil when drilling holes for lock-down brackets or else the heat generated could ruin the drill bit and produce a rough surface finish.



14. WHEELS

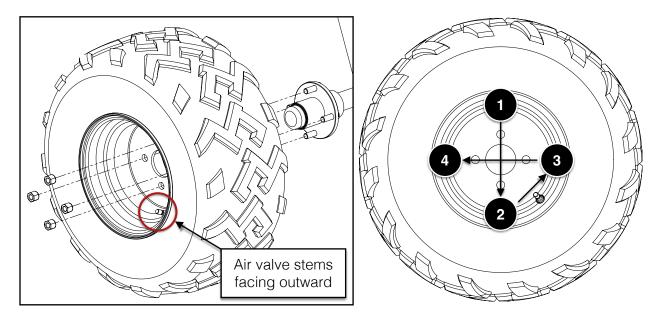
Using the hardware listed below, install the tires on the axles. Note the orientation of the left and right tire tread pattern. Using a torque wrench, torque the lug nuts to 80 ft•lb [110 N•m] following the pattern shown on the next page.

8x	M12 X 1.5 Lug Nut	1x	22X11-10 Wheel [Left]	
		1x	22X11-10 Wheel [Right]	

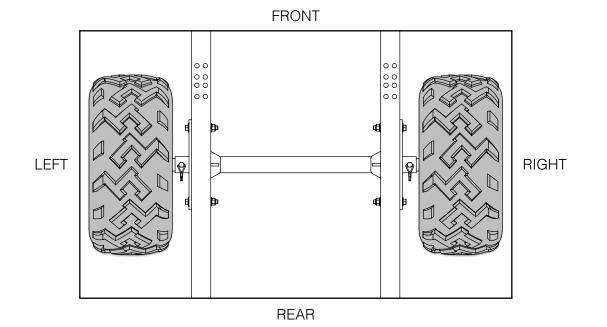




The tread pattern is different for both the left and right tires. When mounting the wheels, ensure the air valve stems face outward. Tighten the lug nuts following the 4-bolt pattern shown in the diagram below. Note that the tapered/conical end of the lug nut points toward the rim.



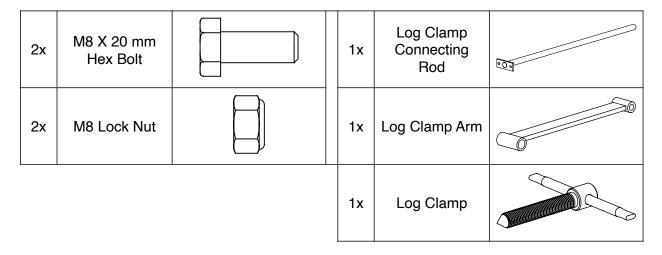
With the wheels mounted properly, the tread patterns should now be oriented as shown below.



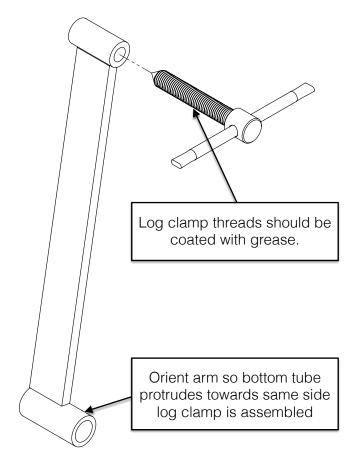


15. LOG CLAMP

Assemble the log clamp using the components and hardware listed in the table below.



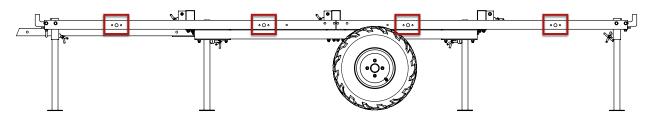
Grease the threads of the log clamp prior to threading it into the log clamp arm. Orient the arm so that the bottom tube protrudes towards the side that the log clamp is being assembled.



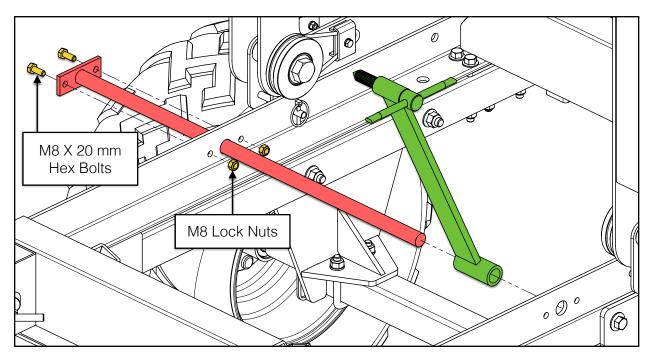


Select an appropriate location for the log clamp assembly from one of the four available hole patterns. The chosen hole pattern is at the discretion of the sawmill operator. The log clamp assembly can be moved to a different location at any time as the size of the log being milled dictates.

Note that it is ideal to select a log clamp position that will secure the log firmly against a minimum of two log supports.



Attach the log clamp assembly to the rails as shown below using two (2) M8 X 20 mm hex bolts and M8 lock nuts.





TRAILER EXTENSION ASSEMBLY

The *Trailer Extension Assembly* sections only apply to customers with Bushlander™ XL trailer extensions.

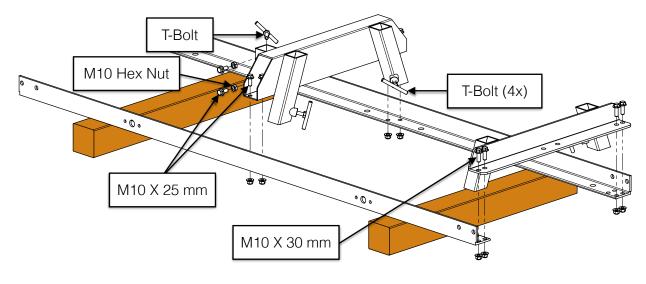
1. TRAILER EXTENSION TRACK

Using the hardware and components listed below, assemble the trailer extension track.

4x	M10 X 30 mm Flanged Hex Bolt		5x	M10 X 40 mm T-Bolt	
6x	M10 X 25 mm Flanged Hex Bolt		1x	Mid Bunk	
2x	M10 Hex Nut		1x	End Bunk	
8x	M10 Flanged Lock Nut			Track Rail	in the second seco

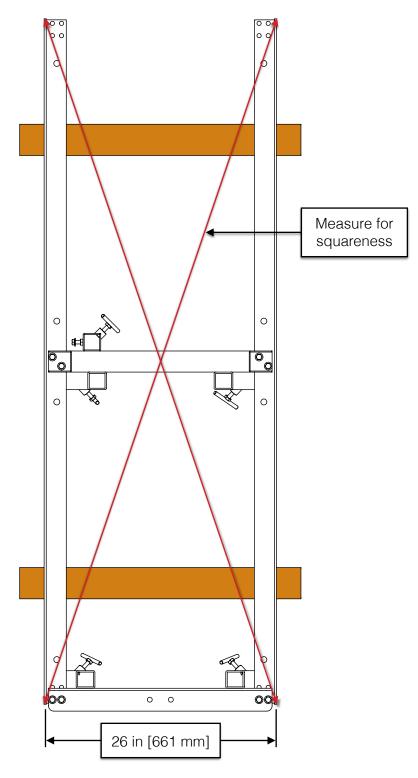
Assemble the trailer extension on wood blocks for ease of assembly. Assemble the mid bunk (middle) to the track rails using four (4) M10 X 25 mm hex bolts and M10 lock nuts. Assemble the end bunk using four (4) M10 X 30 mm hex bolts and M10 lock nuts.

Do not fully tighten the hardware until the extension is squared as shown on the next page.





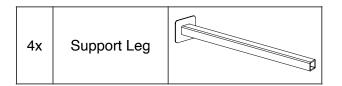
With the extension loosely assembled, verify the width of the track is 26 in [661 mm] by measuring from the outside faces of the rails. Then measure diagonally across the rails, verifying the track is square. Once square and at the correct width, tighten all the hardware.



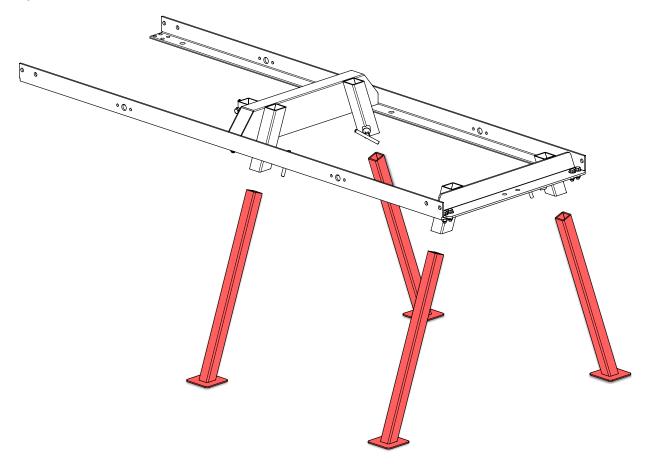


2. TRAILER EXTENSION SUPPORT LEGS

Assemble the components listed below to the trailer extension.



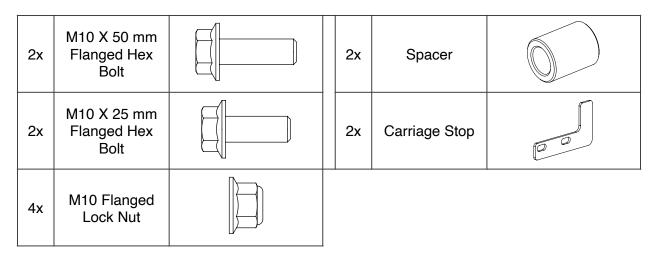
Lift one end of the track assembly and slide two (2) support legs up through the bottom of the tube sleeves in the end bunk. Secure the legs in place using the T-bolts on the bunk. Then lift the other end, insert the two (2) remaining legs into the middle log bunk, and level the track. Tighten the T-bolts once level.



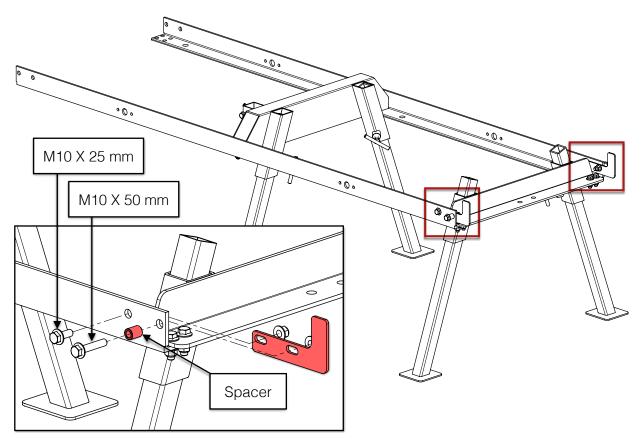


3. TRAILER EXTENSION CARRIAGE STOPS

Using the hardware listed below, assemble the carriage stops to the end of the track rails where the end bunk is located. The carriage stops are not included in this assembly—they are found in the sawmill crate.



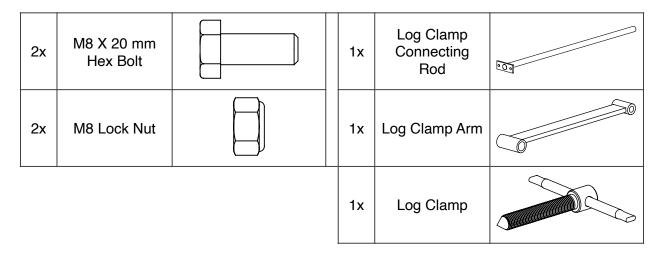
Assemble the carriage stops to the inside of the track rails. Use an M10 X 50 mm bolt with a spacer on the outermost hole of each rail.



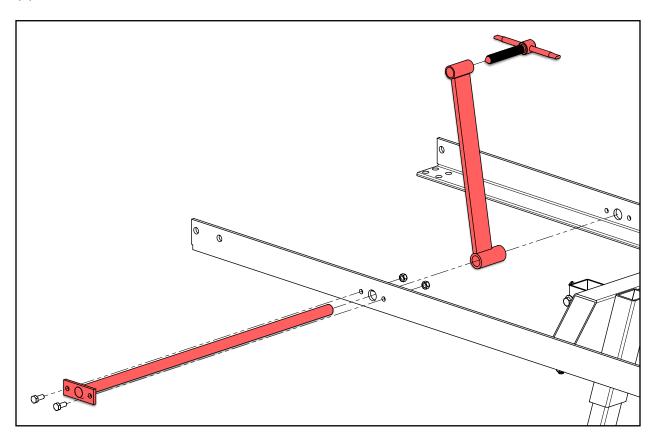


4. TRAILER EXTENSION LOG CLAMP

Using the hardware listed below, assemble the log support to the trailer extension.



Attach the log dog assembly to the trailer extension in the location shown below using the two (2) M8 hex bolts and lock nuts.





5. TRAILER EXTENSION LOCK-DOWN BRACKETS

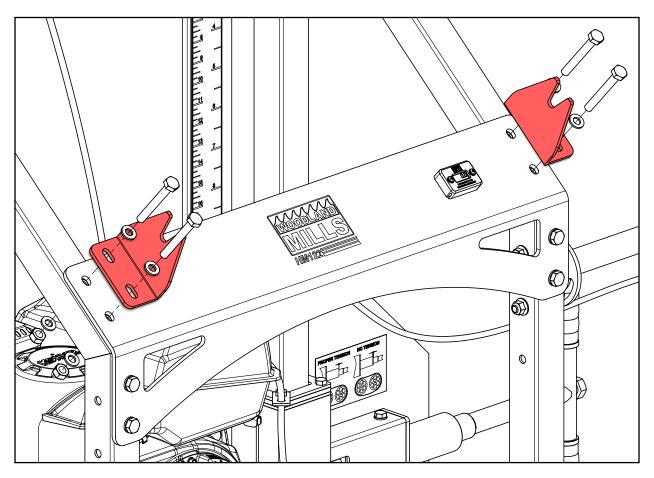
2020 & NEWER SAWMILLS

Using the components listed below, assemble the trailer extension lock-down brackets to the dashboard using existing hardware from the sawmill.



Remove the four (4) M10 X 80 mm hex bolts, flat washers, and lock nuts used to secure the upper portion of the dashboard to the carriage posts. Reuse the same hardware to secure the two (2) lock-down brackets to the dashboard.

Do not fully tighten the hardware. The brackets may require adjustment when the carriage lockdown position is finalized in step **TRAILER EXTENSION LOCK-DOWN**.



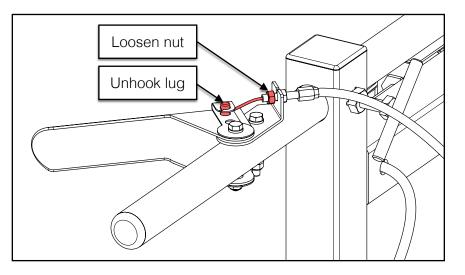


2019 & EARLIER SAWMILLS

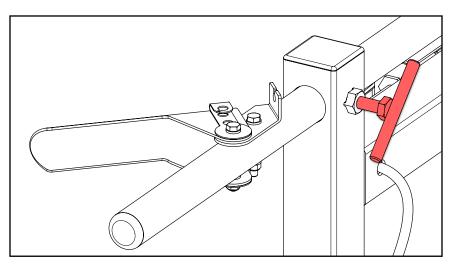
If the sawmill is a model year 2019 or earlier, the trailer extension lock-down bracket kit (part number: **0004603**) is used. Some minor disassembly of the push handle and throttle cable is required to assemble the trailer extension lock-down brackets to the H-frame.



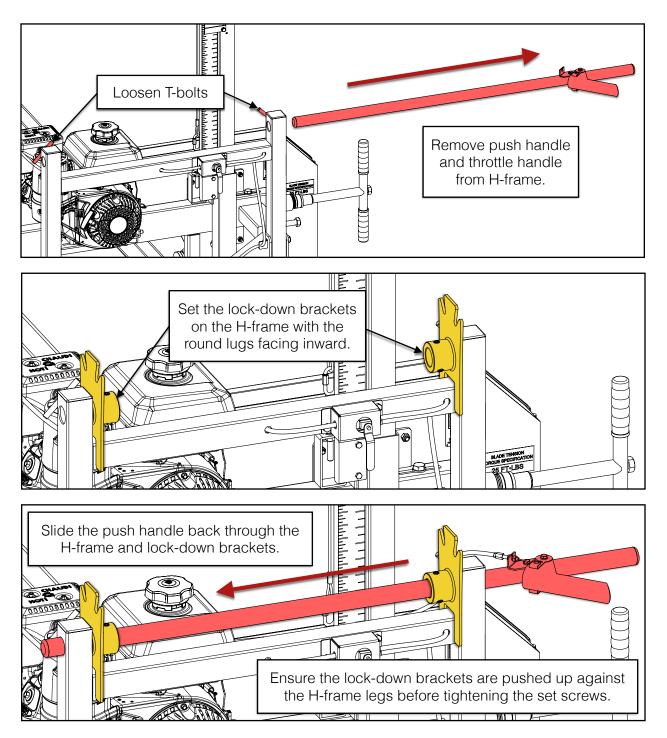
First, loosen the outer hex nut on the throttle cable thimble and then unhook the cable end lug from the throttle handle.



Remove the cable from the throttle handle. Loosen the two (2) T-bolts on the H-frame.





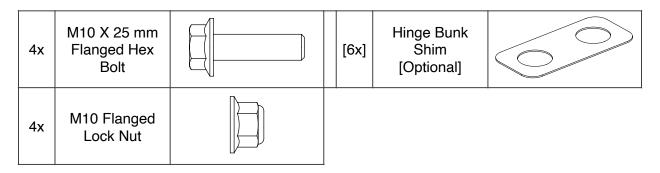


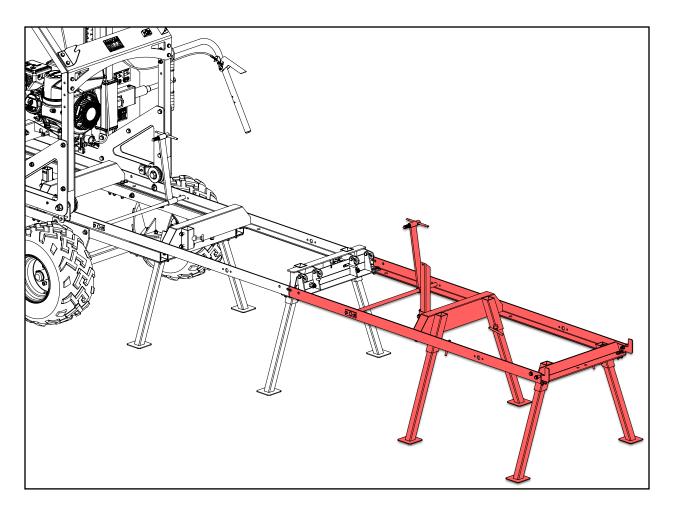
Tighten the two (2) T-bolts after reinstalling the push handle. Then reconnect the throttle cable to throttle handle.



6. TRAILER EXTENSION-TO-TRAILER

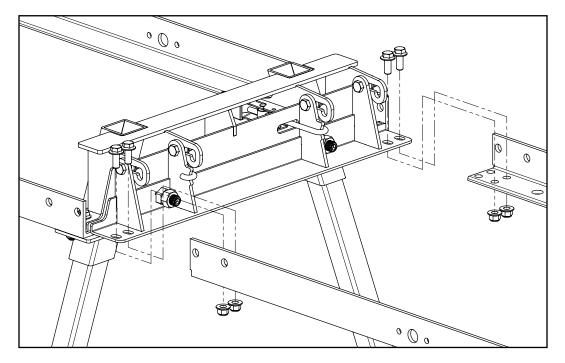
Using the hardware listed below, join the extension to the main trailer.



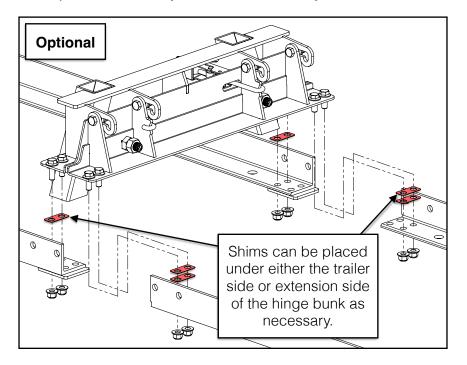




Assemble the open end of the extension track rails to the hinge bunk using four (4) M10 X 25 mm bolts and M10 lock nuts.



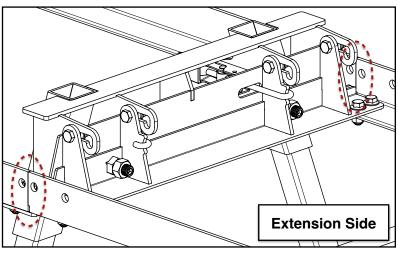
If the top faces of the track rails on the extension aren't collinear with track rails on the main trailer, the provided shims can be used between the hinge bunk flanges and track rails to bring them in line. This step is not necessary if the rails are already inline.

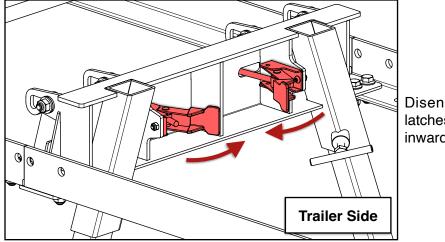




TUNING THE HINGE BUNK

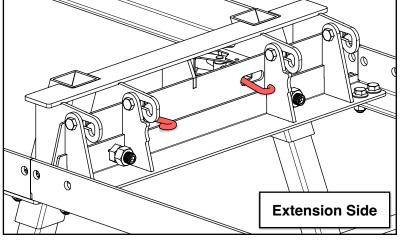
If the top of the trailer and extension track rails are not parallel at the joints, the hinge bunk can be tuned to adjust the position of the extension track rails.

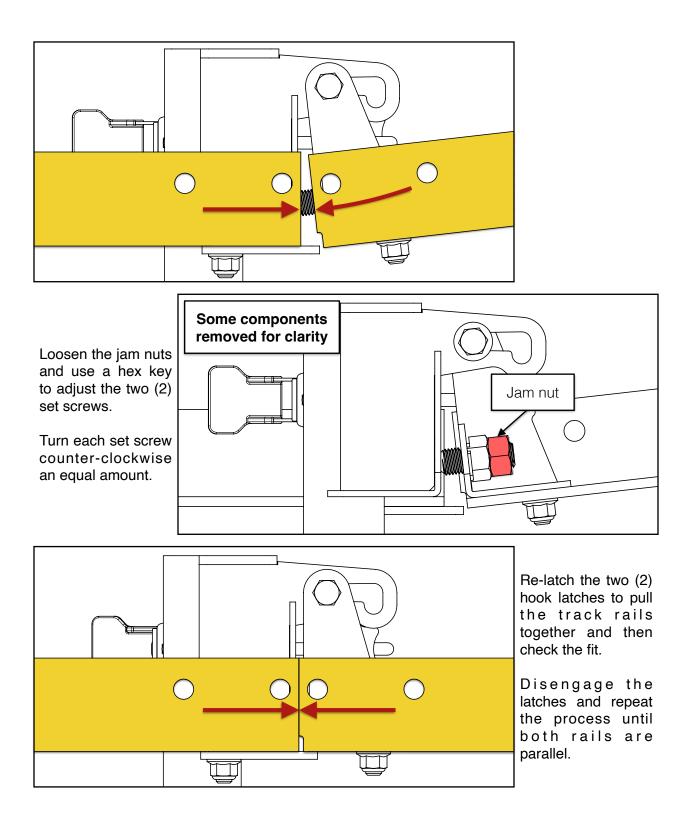




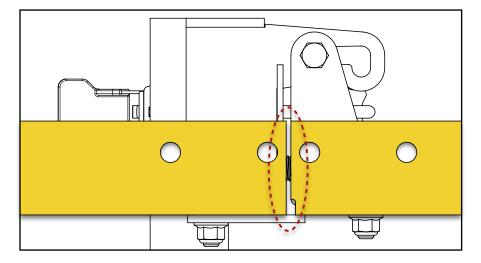
Disengage the two (2) hook latches by pulling the handles inward to release them.

Unhook the hook ends of the latches from the hinge bunk flanges.



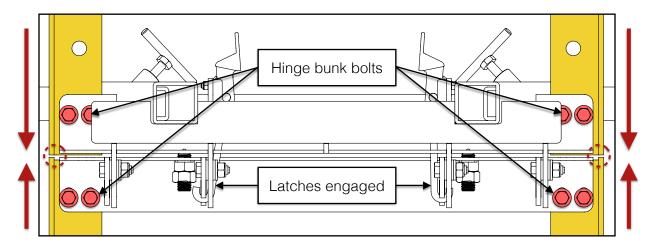


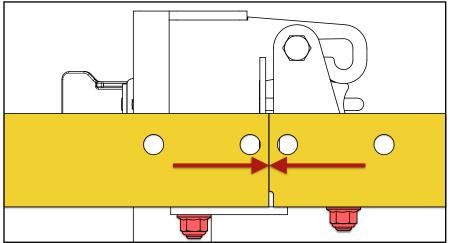




If the track rails are parallel but a gap still exists between the rail seam (while the latches are engaged), the rails can be brought together by loosening the bolts that secure the hinge bunk to the track rails.

Loosen the hinge bunk bolts shown below then pull the track rails together. Ensure the latches are engaged while adjusting the track rail position.



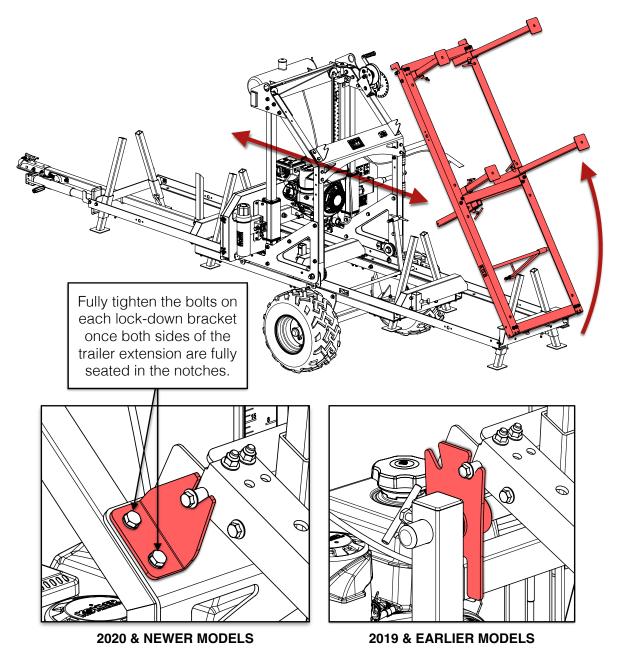


After the track rails are pulled together, retighten the hinge bunk bolts.

7. DRILLING LOCK-DOWN HOLES FOR TRAILER EXTENSION

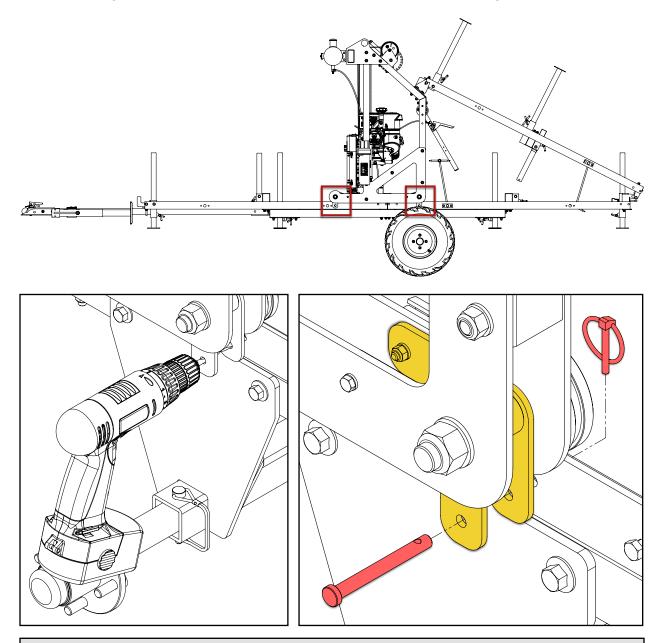
Do not drill the holes below for the lock-down brackets if no trailer extension was purchased. These apply to owners with Bushlander™ XL trailer extensions only.

Rotate the trailer extension up and nest it into the notches in the lock-down brackets on the dashboard (or the lock-down brackets on the H-frame—2019 and earlier models), moving the sawmill carriage until it is fully seated.





With the folded trailer extension setting the position of the sawmill carriage, drill four (4) holes in the track rails using the provided $\frac{3}{8}$ in drill bit through the lock-down plates on the sawmill. Insert a locking pin into each hole as they are drilled. Secure each locking pin with a linch pin.





WARNING!

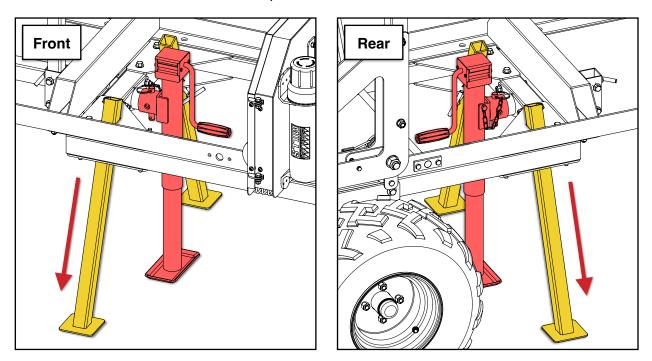
Use cutting oil when drilling holes for lock-down brackets or else the heat generated could ruin the drill bit and produce a rough surface finish.



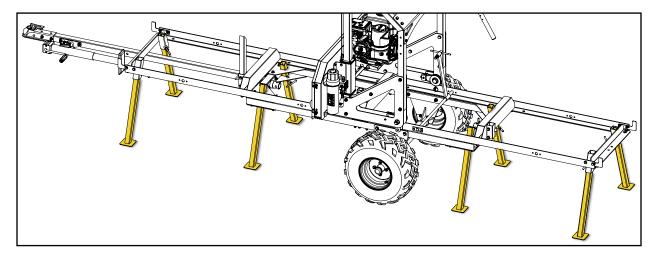
OPERATION

LEVELLING THE TRAILER

To level the trailer, attach the jack to the mount at the front of the trailer frame. Raise the end of the trailer until the wheels come off the ground, then drop the two (2) support legs on either side of the jack and lock them in place using the T-bolts. Remove the jack and repeat those steps at the rear end of the trailer frame with a spirit level laid across the bunks to check the level.



Once level, lower all the support legs and lock them in place with the T-bolts. Check the level of the track rails at the ends of the track and adjust the outer supports if necessary.

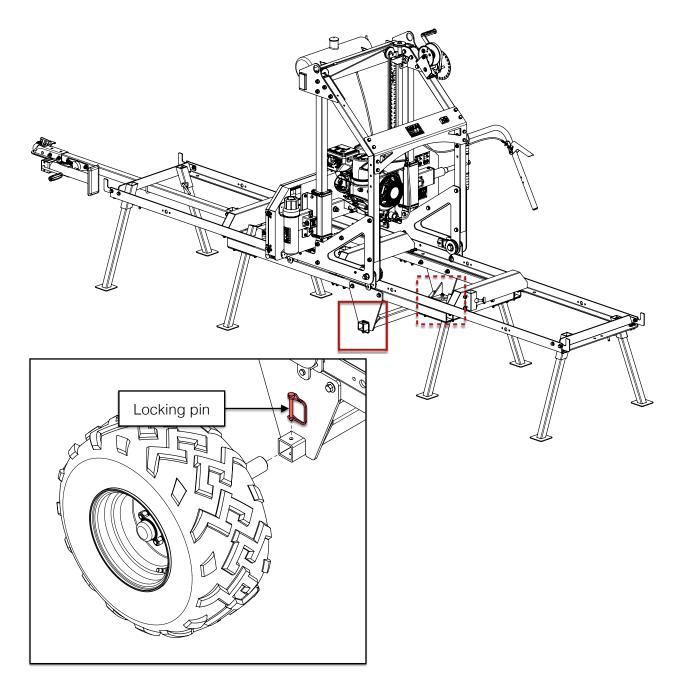




REMOVING THE WHEELS

The wheels and axles can be easily removed from the trailer so as not to get in the way of the operator while walking alongside the sawmill during cuts.

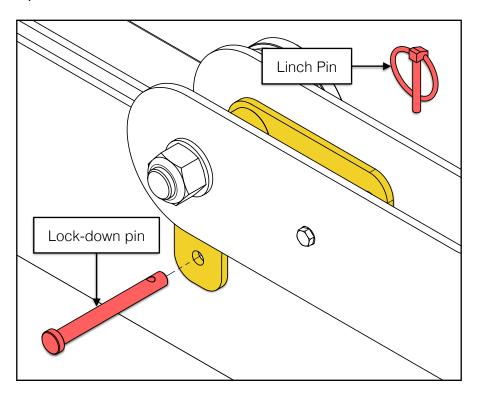
After the trailer is level with the wheels off the ground, simply remove the locking pin from each each axle and pull the wheel out. Set the wheels aside until the trailer is ready to be mobile again.



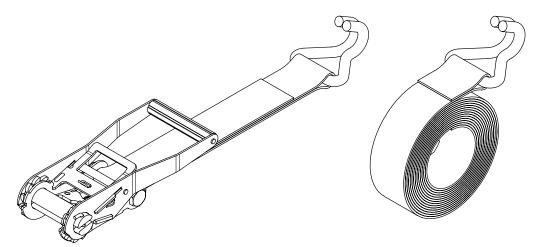


STANDARD TRAILER LOCK-DOWN

When transporting the trailer, it is imperative that the sawmill head is locked-down securely to the trailer. Start by inserting the four (4) locking pins through the lock-down brackets and secure them with linch pins.

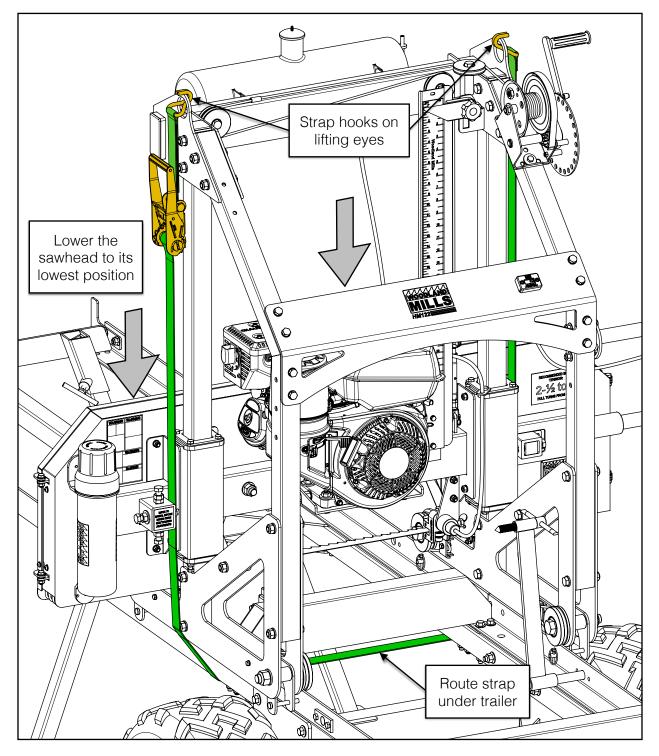


Next, route the included ratchet strap (shown below) around the sawmill and trailer to fully lockdown the sawmill head as shown on the next page.





Lower the sawhead to its lowest position. Insert the short strap hook into the cross beam lifting eye on one side of the sawmill, route the long strap down and under the bottom of the trailer, then up to the opposite lifting eye. Ratchet the strap tight until there is no slack.



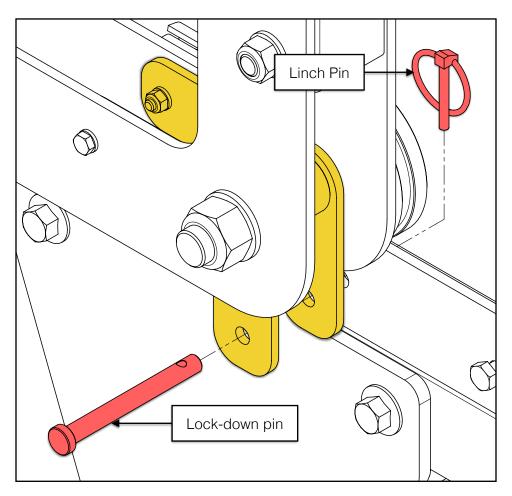


TRAILER EXTENSION LOCK-DOWN

To make the trailer with an extension mobile, the extension folds up and locks into the sawmill dashboard. Follow the steps below to lock-down the extension.

LOCK-DOWN THE SAWMILL CARRIAGE

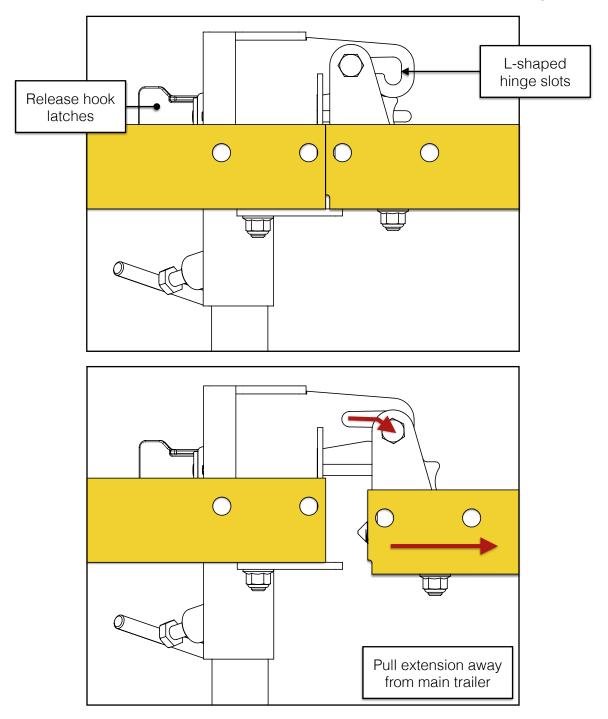
First, lock-down the sawmill carriage using the four (4) lock-down pins with linch pins. Be sure these are the lock-down holes drilled for the extension and not the holes drilled for the standard length trailer if the extension was purchased after the standard trailer was built.





DISENGAGE HINGE BUNK

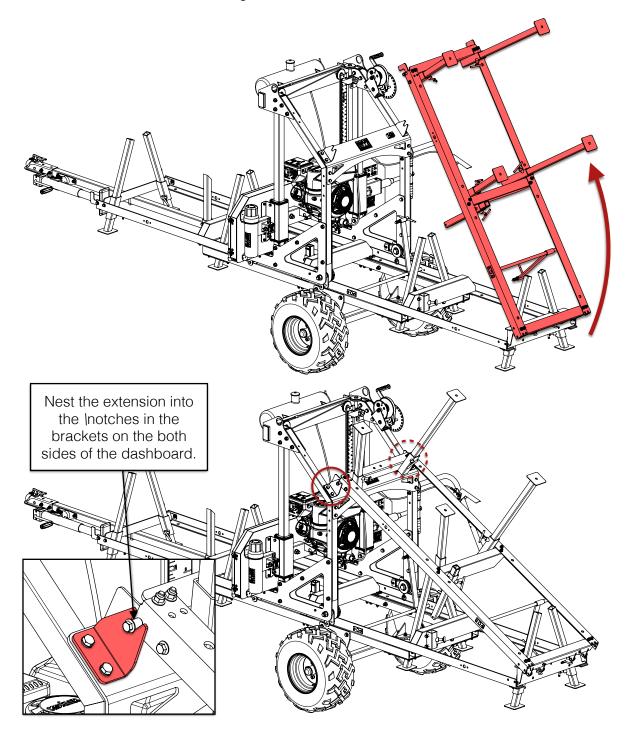
Disengage the hinge bunk by releasing the two (2) hook latches. Then pull the extension away from the main trailer until the pivot bolts drop down to the bottom of the L-shaped hinge slots.





ROTATE THE EXTENSION (2020 & NEWER)

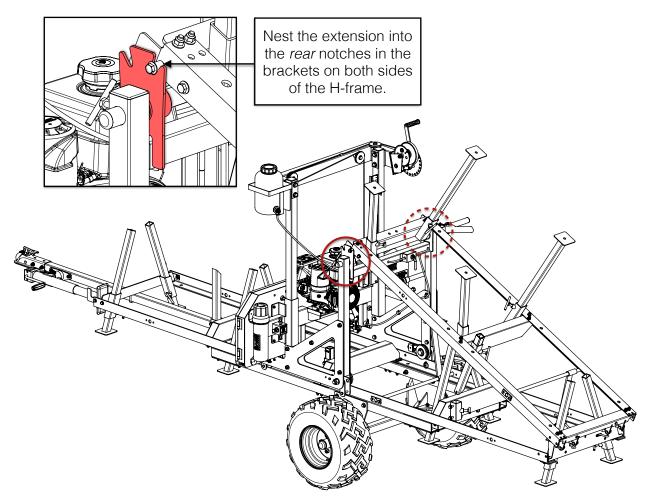
Rotate the extension up and around until the spacers at the end of the track rails seat into the dashboard lock-down brackets. If the extension is too heavy to lift, the four (4) supports can be removed. Reinstall them after rotating the extension.





ROTATE THE EXTENSION (2019 & EARLIER)

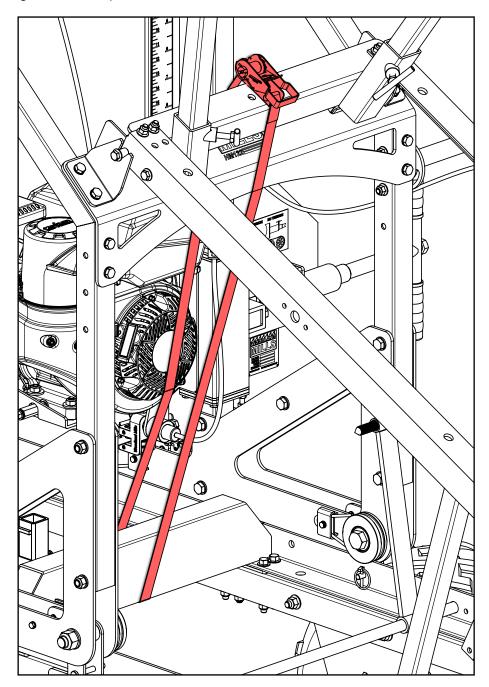
If the sawmill is a 2019 or earlier, rotate the trailer extension up and nest it into the lock-down brackets mounted to the H-frame





SECURE EXTENSION WITH RATCHET STRAP

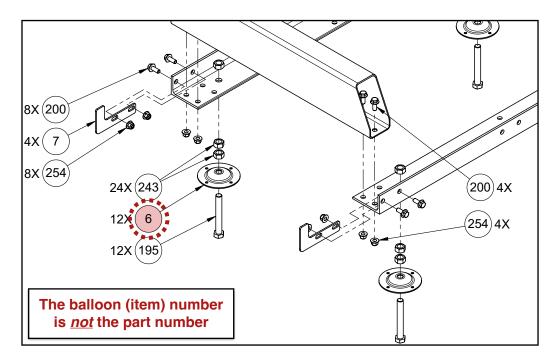
With the extension nested in the dashboard lock-down brackets, route the ratchet strap around the end bunk on the extension, over the sawmill dashboard, and finally around the track bunk as shown below. Tighten the strap so that the extension is immobilized.





REPLACEMENT PARTS ORDERING

When ordering replacement parts, first locate the balloon number(s) from the appropriate *exploded assembly view* as shown in the example below:



Next, turn to the *Parts List* section and locate the balloon number in the "Item" column:

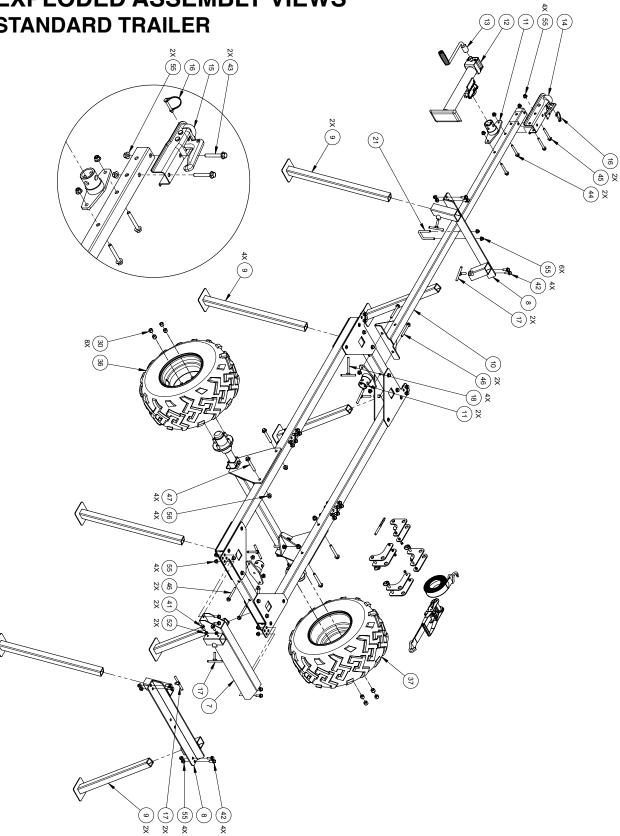
PARTS LIST								
	Quantity							
Item	14 hp	9.5 hp	Part No.	Description				
1	4	4	0001073	TRACK RAIL, 58.5 mm TALL				
2	2	2	0001075	LOG BUNK, END				
- 3	2	2	0001080	LOG BUNK, MID				
4	1	1	0001084	LOG BUNK, CENTER				
	2	2	0001072	REINFORCEMENT PLATE, 90 X 200 mm				
6		12	0001071	LEVELLING FOOT BASE				
7	4	4	0001055	CARRIAGE STOP				
8	1	1	0001062	LOG CLAMP SHAFT AND BRACKET WELDMENT				

Record the part number (e.g. 0001071, HHB-MBM080FCJ, etc.) in the "Part No." column.

Contact Woodland Mills through the website or via phone/email. If possible, include the invoice or sales number from the purchased product so an associated account can be located. If the account has multiple addresses on file, please indicate to which address the replacement part(s) will be shipped.

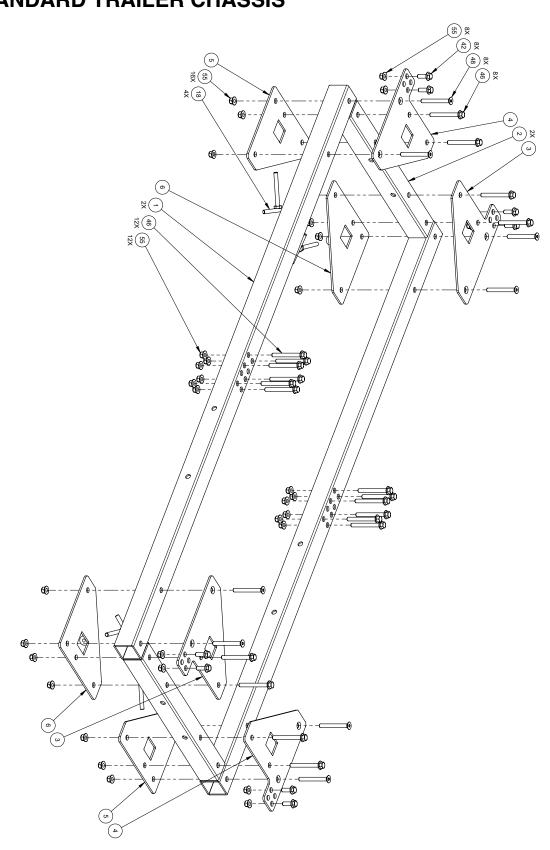


EXPLODED ASSEMBLY VIEWS STANDARD TRAILER



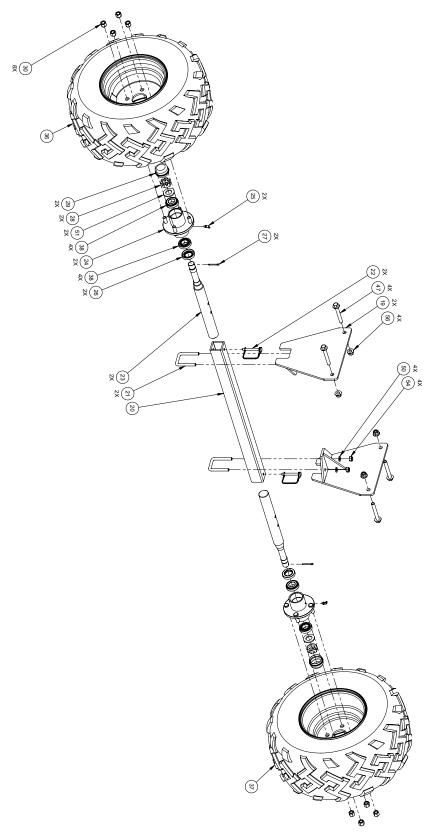


STANDARD TRAILER CHASSIS



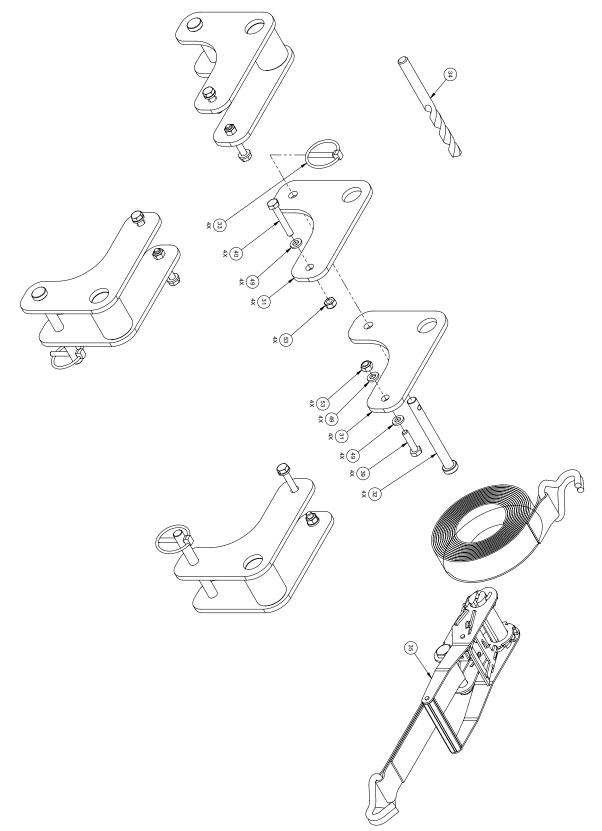


STANDARD TRAILER AXLES



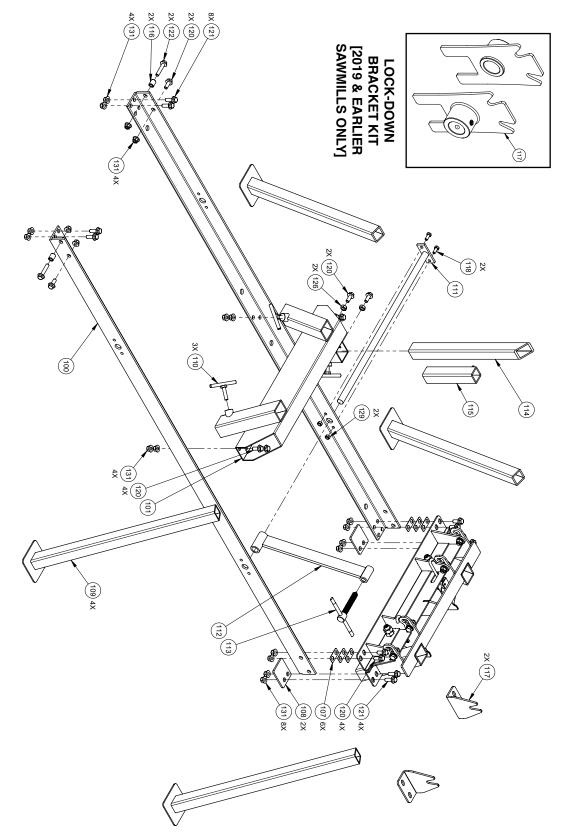


LOCK-DOWN COMPONENTS



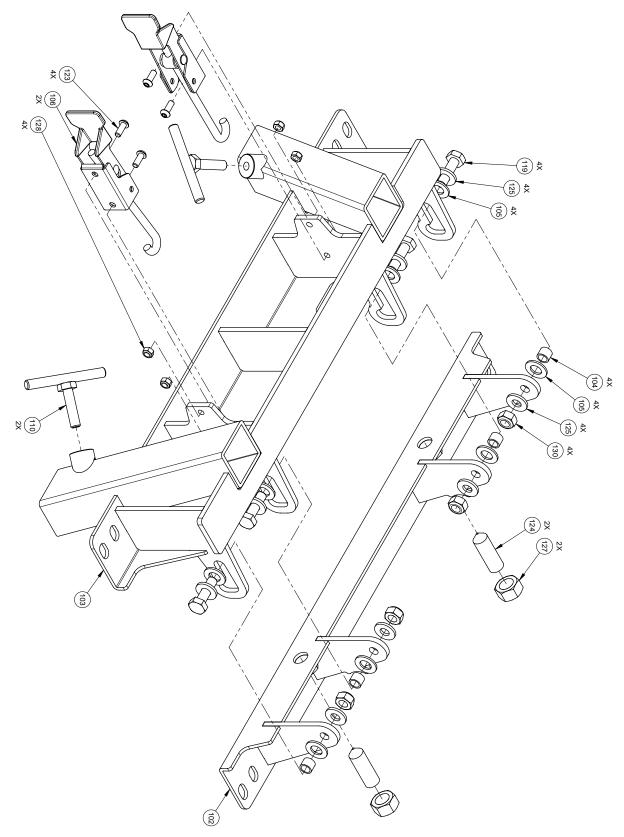


TRAILER EXTENSION





TRAILER EXTENSION HINGE BUNK





PARTS LISTS

STANDARD TRAILER

NA = North America I **EU** - Europe

Highlighted row(s) indicate components exclusive to European markets.

Itom	Quantity		Dest No	Description	
Item	NA	EU	Part No.	Description	
1	2	2	0002115	SIDE BEAM	
2	2	2	0002116	END BEAM	
3	2	2	0002117	TOP GUSSET 2	
4	2	2	0002118	TOP GUSSET 1	
5	2	2	0002119	BOTTOM GUSSET 1	
6	2	2	0002120	BOTTOM GUSSET 2	
7	1	1	0002122	LOG BUNK, MID, REVERSE	
8	2	2	0002121	LOG BUNK, END	
9	8	8	0002124	SUPPORT LEG	
10	1	1	0002123	TONGUE	
11	3	3	0002249	JACK MOUNT	
12	1	1	0006798	SWIVEL JACK, PIPE MOUNT, SIDEWIND SOCKET RECEIVER	
13	1	1	0006800	CRANK HANDLE, SOCKET DRIVE, 3/4 in [19 mm], SWIVEL JACK	
14	1	-	0001381	HITCH BALL COUPLER, 2 in [50.8 mm] BALL, NORTH AMERICA	
15	-	1	0001702	HITCH BALL COUPLER, 50 mm [2 in] BALL, EUROPE	
16	1	1	0004728	LOCKING PIN, ROUND, 1/4 in DIA, 1-3/8 in USABLE LG, 2 in LG	
17	5	5	0001059	T-BOLT, M10 X 1.5, 40 mm LG	
18	4	4	0002125	T-BOLT, M10 X 1.5, 90 mm LG	
19	2	2	0002839	AXLE BRACKET, BUSHLANDER	
20	1	1	0002841	AXLE HOUSING, BUSHLANDER	
21	3	3	0005935	U-BOLT, SQ, CLS 8.8, 50 WD X 75 mm LG, M10 X 1.5, 22 mm LG THD	
22	2	2	0004723	LOCKING PIN, SQUARE, 8 mm DIA, 60 mm USABLE LG, 70 mm LG	
23	2	2	0002840	AXLE, BUSHLANDER	
24	2	2	0002283	WHEEL HUB, 4-BOLT, 4 in [101.6 mm] BC, M12 X 1.5 LUGS	
25	2	2	0004909	GREASE FITTING, 45∞ ELBOW, M6 X 1 TAPERED THD	
26	2	2	0004762	ROTARY SHAFT SEAL, SPRING-LOADED, WIPER LIP, 30 mm SHAFT, 50 mm OD	
27	2	2	0004758	COTTER PIN, 4 mm DIA, 32 mm LG	
28	2	2	0006093	LOCK NUT, SLOTTED, M24 X 1.5, 18 mm THK	
29	2	2	0002285	WHEEL HUB DUST COVER, 4-BOLT, M12 LUGS	
30	8	8	0006202	LUG NUT, M12 X 1.5	
31	8	8	0001990	HEAD LOCK-DOWN PLATE	
32	4	4	0001394	LOCK-DOWN PIN, 9.5 mm DIA, 77 mm USEABLE LG	
33	4	4	0004720	LINCH PIN, 4.5 mm DIA, 25 mm USEABLE LG, 32 mm LG	
34	1	1	0004742	DRILL BIT, 10 mm, JOBBERS LG	
35	1	1	0005948	RATCHET STRAP, 38 mm WD, 3900 mm LG	
36	1	1	22X11-10L	WHEEL, 22X11-10, LEFT-HAND	
37	1	1	22X11-10R	WHEEL, 22X11-10, RIGHT-HAND	



Item	Quantity		Part No.	Description	
nem	NA	EU	Fart NO.	Description	
38	4	4	L44643	ROLLER BEARING, TAPERED, 1 in SFT, 1.98 in HSG, 0.58 in WD	
39	4	4	HHB-MBE080FCJ	HEX HEAD BOLT, CLS 8.8, M6 X 1, 25 mm LG, FULL	
40	4	4	HHB-MBE095FCJ	HEX HEAD BOLT, CLS 8.8, M6 X 1, 40 mm LG, FULL	
41	2	2	FHH-MBM080FCM	HEX BOLT, FLANGED, CLS 10.9, M10 X 1.5, 25 mm LG, FULL	
42	16	16	FHH-MBM085FCM	HEX BOLT, FLANGED, CLS 10.9, M10 X 1.5, 30 mm LG, FULL	
43	-	2	FHH-MBM125PCM	HEX BOLT, FLANGED, CLS 10.9, M10 X 1.5, 70 mm LG, 26 mm LG THD	
44	2	2	FHH-MBM130PCM	HEX BOLT, FLANGED, CLS 10.9, M10 X 1.5, 75 mm LG, 26 mm LG THD	
45	2	-	FHH-MBM135PCM	HEX BOLT, FLANGED, CLS 10.9, M10 X 1.5, 80 mm LG, 26 mm LG THD	
46	24	24	FHH-MBM145PCM	HEX BOLT, FLANGED, CLS 10.9, M10 X 1.5, 90 mm LG, 26 mm LG THD	
47	4	4	FHH-MBR145PCM	HEX BOLT, FLANGED, CLS 10.9, M12 X 1.75, 90 mm LG, 30 mm LG THD	
48	8	8	HFH-MBM145FCM	SCREW, HFH, CLS 10.9, M10 X 1.5, 90 mm LG, FULL	
49	12	12	FTW-MBE000AJ	FLAT WASHER, M6	
50	4	4	FTW-MBM000AJ	FLAT WASHER, M10	
51	2	2	FTW-MCM000AJ	FLAT WASHER, M24	
52	2	2	HXN-MBMCH	HEX NUT, CLS 8, M10 X 1.5	
53	8	8	HLN-MBECH	LOCK NUT, CLS 8, M6 X 1	
54	4	4	HLN-MBMCL	LOCK NUT, CLS 10, M10 X 1.5	
55	54	54	FLN-MBMCL	LOCK NUT, FLANGED, CLS 10, M10 X 1.5	
56	4	4	FLN-MBRCL	LOCK NUT, FLANGED, CLS 10, M12 X 1.75	



TRAILER EXTENSION

Item	Qty	Part No.	Description
100	2	0003582	TRACK RAIL, 63 X 60 mm, 1950 mm LG
101	1	0003580	LOG BUNK, MID
102	1	0005390	HINGE BUNK, EXTENSION SIDE
103	1	0005389	HINGE BUNK, TRACK SIDE
104	4	0005414	HINGE BUNK SLEEVE
105	8	0005413	FLAT WASHER, 13 mm ID, 24 mm OD, 2 mm THK, NYLON
106	2	0002338	HOOK LATCH, 8 mm HOOK
107	6	0003583	HINGE BUNK SHIM, 0.5 mm THK
108	2	0002154	REST PLATE
109	4	0002124	SUPPORT LEG
110	5	0001059	T-BOLT, M10 X 1.5, 40 mm LG
111	1	0001460	SHAFT, SCREW-TYPE LOG CLAMP
112	1	0001461	ARM, SCREW-TYPE LOG CLAMP
113	1	0001462	SCREW-TYPE LOG CLAMP
114	1	0001056	LOG SUPPORT, BEVELLED, 450 mm LG
115	1	0001465	LOG SUPPORT, KEY STOP, 190 mm LG
116	2	0002697	SPACER, 10 ID X 16 OD X 20 mm LG
447	2	0002311	TRACK LOCK-DOWN BRACKET
117	1	0004603	TRACK LOCK-DOWN KIT, 2019 & EARLIER SAWMILLS
118	2	HHB-MBJ075FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 20 mm LG, FULL
119	4	HHB-MBM090FCJ	HEX HEAD BOLT, CLS 8.8, M10 X 1.5, 35 mm LG, FULL
120	12	FHH-MBM080FCM	HEX BOLT, FLANGED, CLS 10.9, M10 X 1.5, 25 mm LG, FULL
121	8	FHH-MBM085FCM	HEX BOLT, FLANGED, CLS 10.9, M10 X 1.5, 30 mm LG, FULL
122	2	FHH-MBM105PCM	HEX BOLT, FLANGED, CLS 10.9, M10 X 1.5, 50 mm LG, 26 mm LG THD
123	4	BHS-MBE071FCM	BUTTON HEAD SCREW, CLS 10.9, M6 X 1, 16 mm LG, FULL
124	2	CNS-MCA105GR	SET SCREW, CONE POINT, GR 45H, M16 X 2, 50 mm LG
125	8	FDW-MBM072000AJ	FENDER WASHER, M10, 23 mm OD
126	2	HXN-MBMCH	HEX NUT, CLS 8, M10 X 1.5
127	2	HXN-MCACH	HEX NUT, CLS 8, M16 X 2
128	4	HLN-MBECH	LOCK NUT, CLS 8, M6 X 1
129	2	HLN-MBJCH	LOCK NUT, CLS 8, M8 X 1.25
130	4	HLN-MBMCH	LOCK NUT, CLS 8, M10 X 1.5
131	20	FLN-MBMCL	LOCK NUT, FLANGED, CLS 10, M10 X 1.5



NOTES



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