

LOGLANDER™ 20 LOG ARCH

Hauls up to 20 in [51 cm] diameter logs



OPERATOR'S MANUAL



DISCOVER THE WOODLAND™

Loglander™ 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 Loglander™ log arch 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.

OWNER'S RECORD

Please take a moment to record the following information about your Loglander™ log arch. If you need to call for assistance, please be ready to provide your model and serial numbers. This information will allow us to be more efficient when you call.

MODEL NUMBER

SERIAL NUMBER

DATE OF PURCHASE

The Loglander™ 20 log arch can be towed behind any vehicle that utilizes a 2 in [50 mm] hitch ball.

The Loglander™ 20 log arch is sold as an *off-road only* trailer designed for certain applications. We strongly recommend the log arch 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, DO NOT use the log arch 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.

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 Loglander™ is not designed to carry any additional weight other than the log being hauled. Failure to heed this warning could result in damage to the log arch.



WARNING!

Always use the choker chain to support the weight of the log while towing the Loglander™.

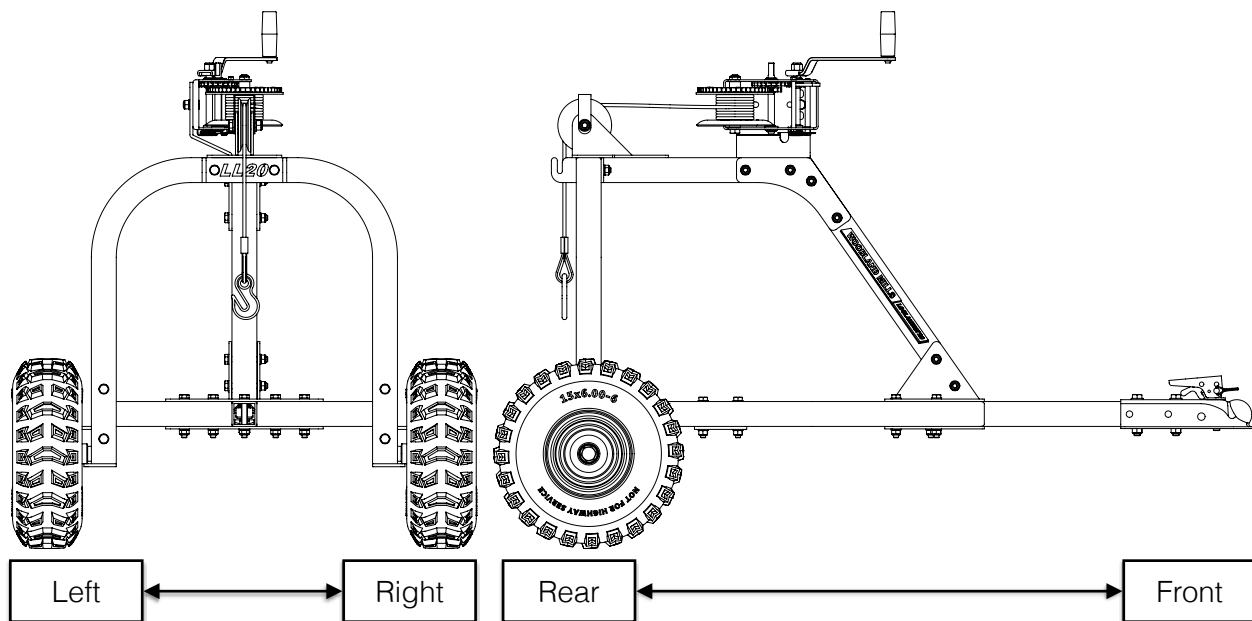


INSPECTION/MAINTENANCE

- Check the tires before all trips. Make sure they are inflated to the pressure shown on the tire.
- Grease the axles every 3 months or 100 hours, whichever comes first.
- Check the tow hitch ball coupler. Make sure it is not damaged.
- Check the axle bolts before all trips. Make sure they are torqued properly.
- Inspect trailer before all trips for any damaged or loose parts.

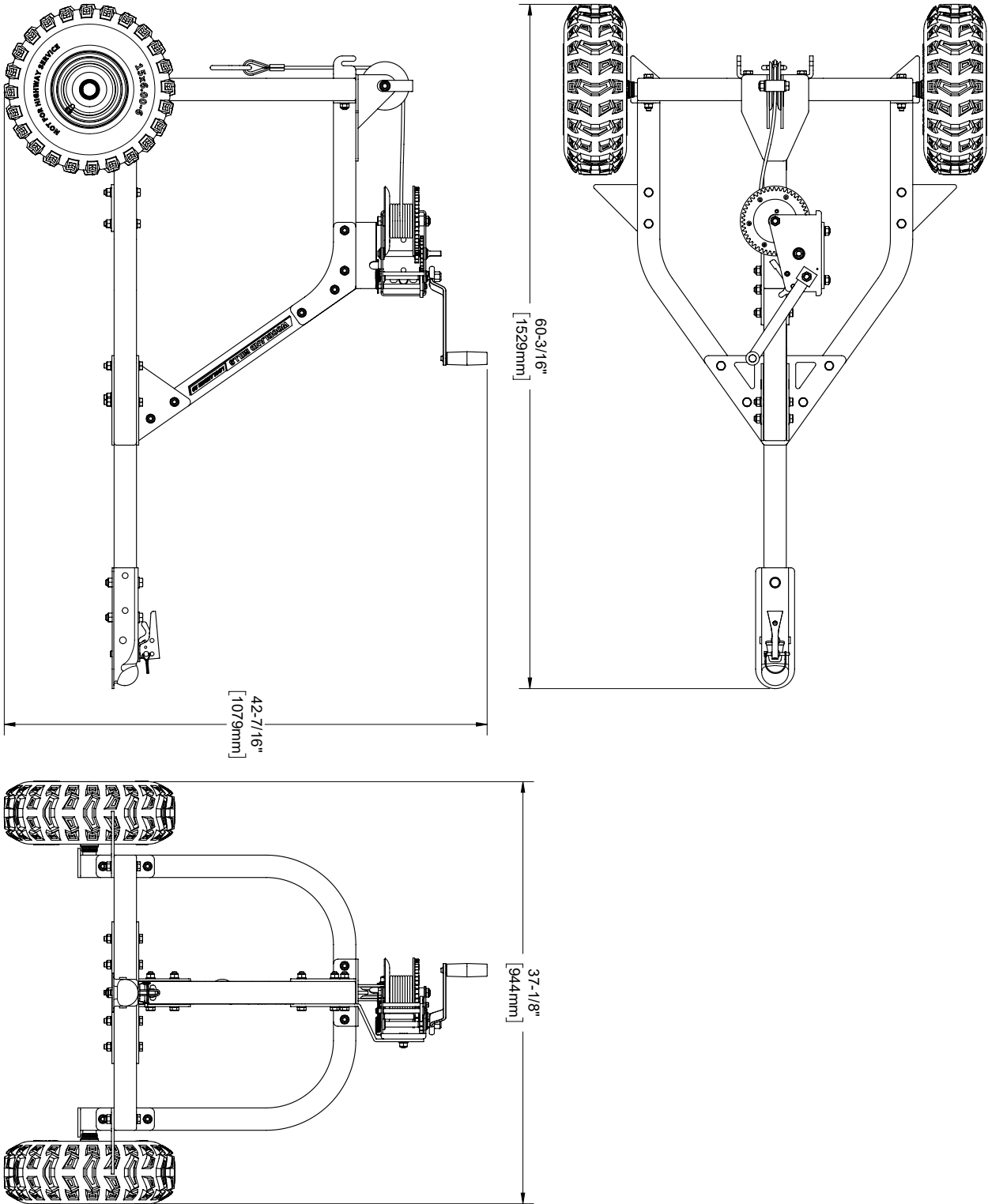
TECHNICAL SPECIFICATIONS

Item	Specification
Trailer Axle	Fixed Axle Design
Trailer Wheels	15x6.00-6 ATV Tires
Tire Pressure	Refer to Tire
Trailer Ball Coupler	2 in [50 mm]
Finish	Powder Coat Paint / Galvanized Steel
Shipping Weight	130 lb [59 kg]
Product Weight	126 lb [57 kg]



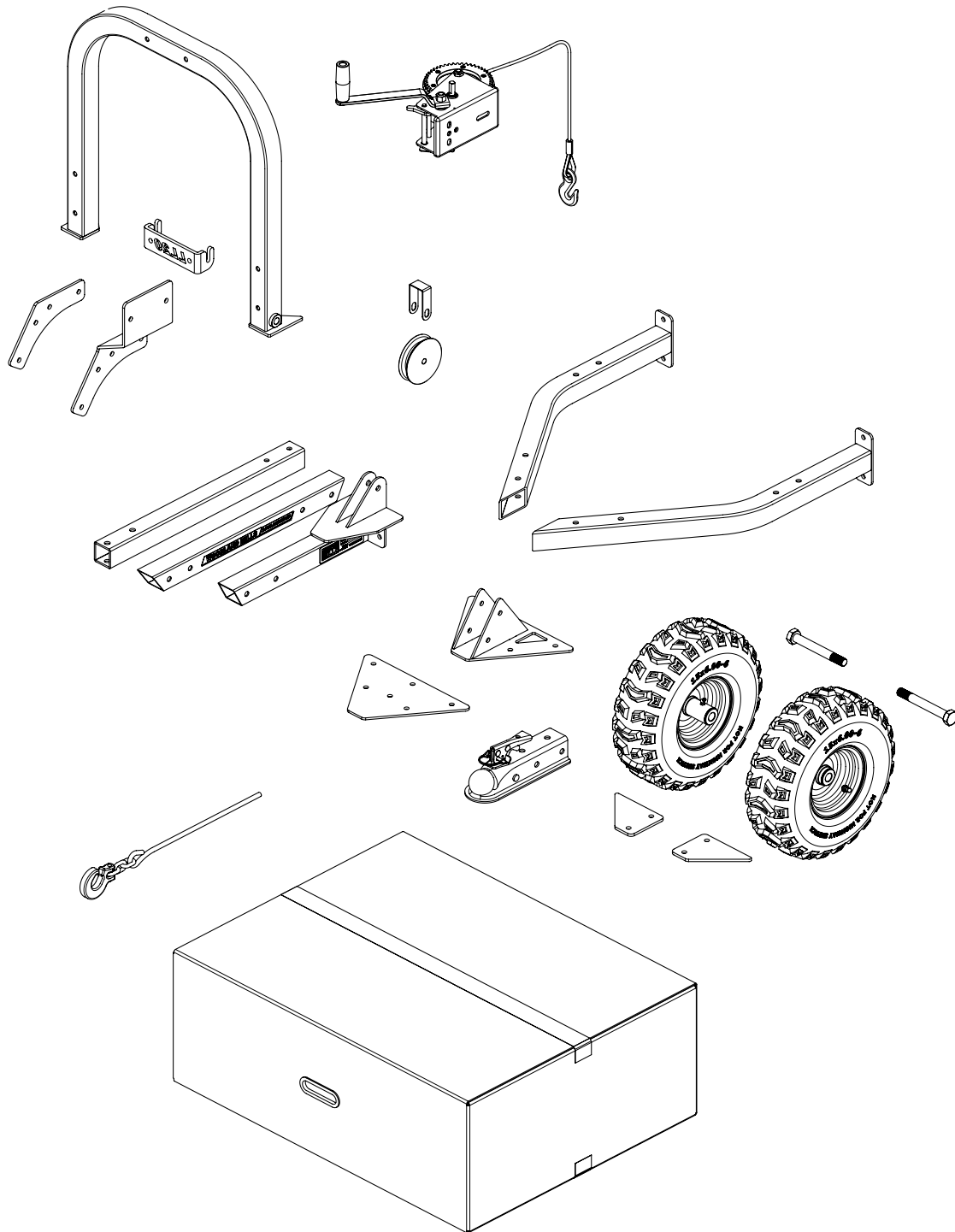


OVERALL DIMENSIONS



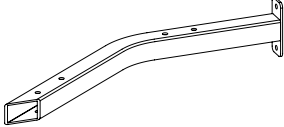
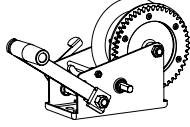
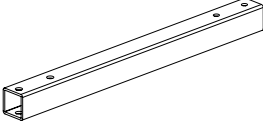
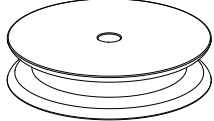
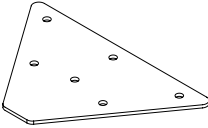
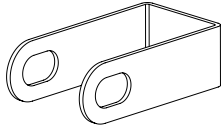
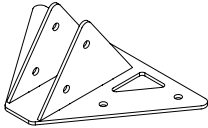
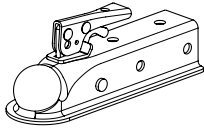
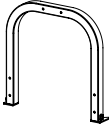
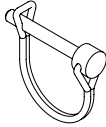
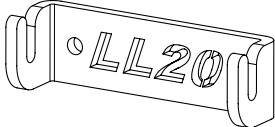
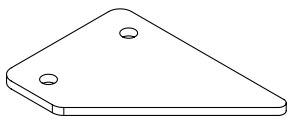
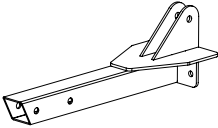
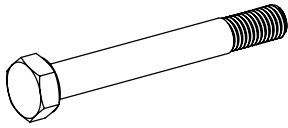
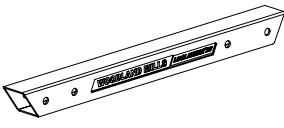

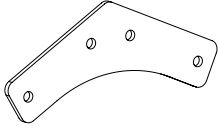

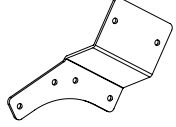
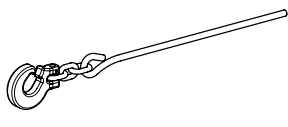
UNPACKING

Remove all the parts from the cardboard box. The box will not be utilized during assembly and can be discarded.



COMPONENT LISTS

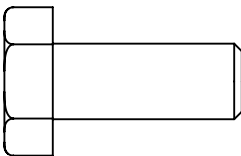
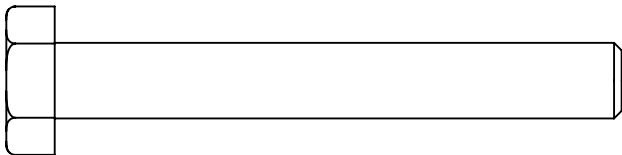
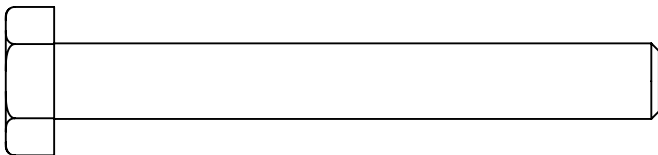
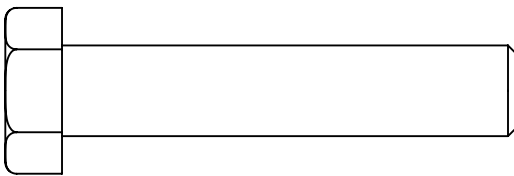
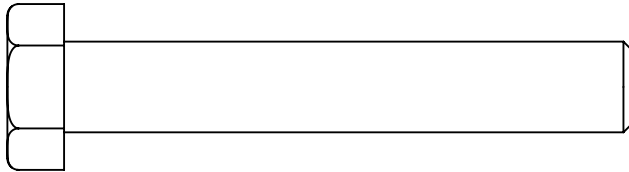
Verify all component and hardware quantities are correct prior to assembling the trailer.

2x	Side Beam [0008329]		1x	Winch and Cable Assembly	
1x	Tongue [0007572]		1x	Wire Rope Pulley [0008337]	
1x	Front Gusset, Bottom [0008061]		1x	Cable Retainer [0008341]	
1x	Front Gusset, Top [0008059]		1x	Hitch Ball Coupler [0001381]	
1x	Rear Arch [0008326]		1x	Round Locking Pin [0004728]	
1x	Chain Hook [0008813]		2x	Wheel Guard [0008342]	
1x	Centre Beam, Top [0008330]		2x	Axle Bolt [0008931]	
1x	Centre Beam, Front [0008336]		1x	Right Wheel [15x6.00-6R]	
1x	Centre Beam Gusset [0008114]		1x	Left Wheel [15x6.00-6L]	
1x	Winch Mount [0008115]		1x	Choker Chain [0002595]	

TO-SCALE 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.

2x	HHB-MBM080FCJ	M10 X 1.5 X 25 mm HEX BOLT
		
8x	HHB-MBM130PCJ	M10 X 1.5 X 75 mm HEX BOLT
		
14x	HHB-MBM135PCJ	M10 X 1.5 X 80 mm HEX BOLT
		
1x	HHB-MBR115PCJ	M12 X 1.75 X 60 mm HEX BOLT
		
2x	HHB-MBR130PCJ	M12 X 1.75 X 75 mm HEX BOLT
		



SCALES

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



CENTIMETRES / MILLIMETRES



INCHES

WASHERS

48x	FTW-MBM000AJ M10 FLAT WASHER	6x	FTW-MBR000AJ M12 FLAT WASHER
8x	FTW-MCC000AJ M18 FLAT WASHER		

NUTS

24x	HLN-MBMCL M10 X 1.5 LOCK NUT	3x	HLN-MBRCL M12 X 1.75 LOCK NUT



TOOLS & MATERIALS REQUIRED

Tool	Specification
Wrench/Socket	16 mm (2X)
Wrench/Socket	17 mm (2X)
Wrench/Socket	18 mm (2X)
Wrench/Socket	19 mm (2X)
Ratchet	3/8 or 1/2 in Drive
Packing Grease	Multipurpose Grease (~3 oz [44 ml])
Thread Locker	Blue (Medium Locking Strength)
Torque Wrench	Capable of 80 ft•lb [108.5 N•m] MIN

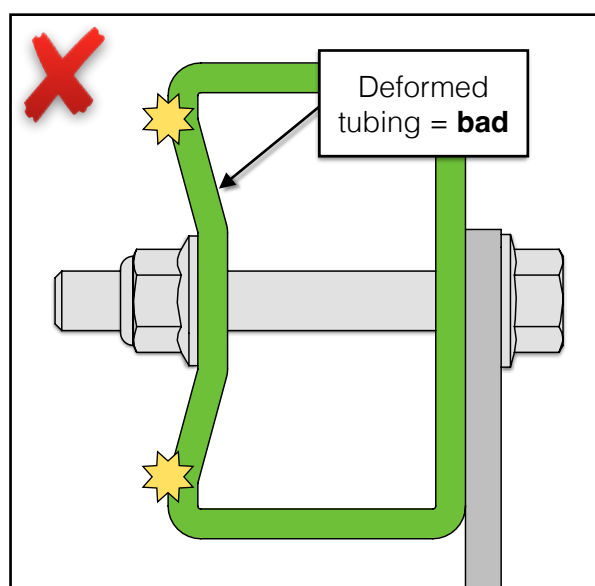
During several of the assembly steps, more than one socket or wrench of the same size may be required to assemble the hardware. A socket or box wrench in combination with an adjustable wrench can be utilized if multiple same size tools are in limited supply.

BOLT TORQUE



BOLT TORQUE WARNING!

When assembling the log arch, do not torque the bolts to hardware Class/Grade specifications. Snug the hardware, then tighten a further $\frac{1}{4}$ — $\frac{1}{2}$ turn. Tightening bolts to torque spec can crush metal tubing, ruining the components.

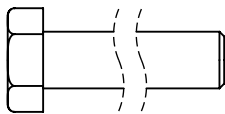
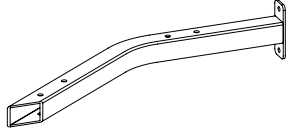
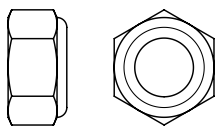
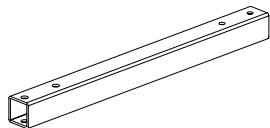
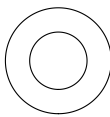
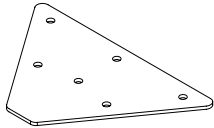
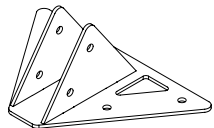


DO NOT TORQUE TO SPEC WHEN BOLTING THROUGH TUBING. SNUG HARDWARE, THEN TIGHTEN A FURTHER $\frac{1}{4}$ — $\frac{1}{2}$ TURN.

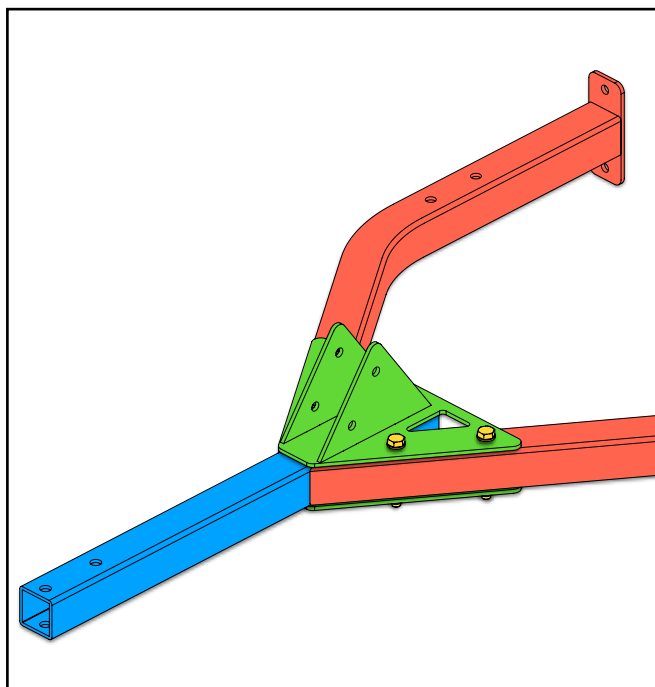
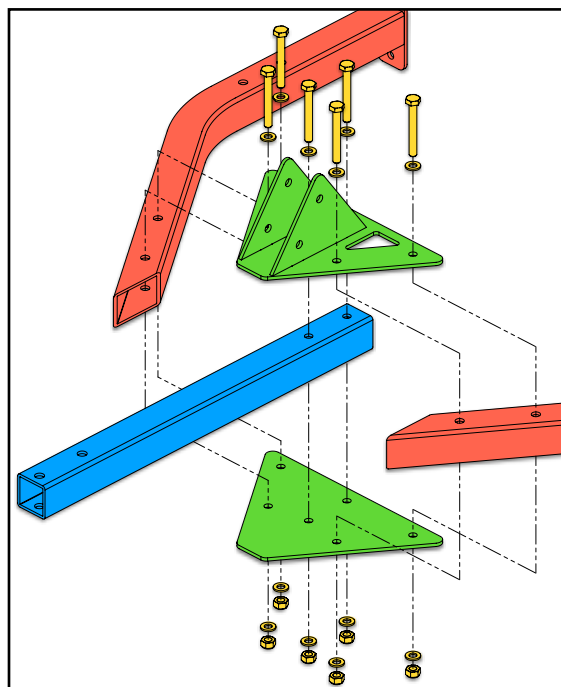
ASSEMBLY

1. SIDE BEAMS & TONGUE

Join the side beams and tongue together with the front gussets using the components and hardware listed in the table below.

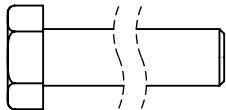
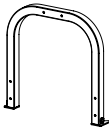
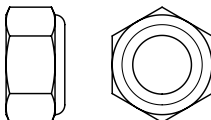
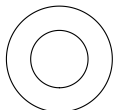
6x	M10 X 80 mm Hex Bolt		2x	Side Beam	
6x	M10 Lock Nut		1x	Tongue	
12x	M10 Flat Washer		1x	Front Gusset, Top	
			1x	Front Gusset, Bottom	

Bolt the side beams and tongue together with the top and bottom front gussets using six (6) M10 X 80 mm hex bolts, twelve (12) M10 flat washers, and six (6) M10 lock nuts. Do *not* fully tighten the hardware.

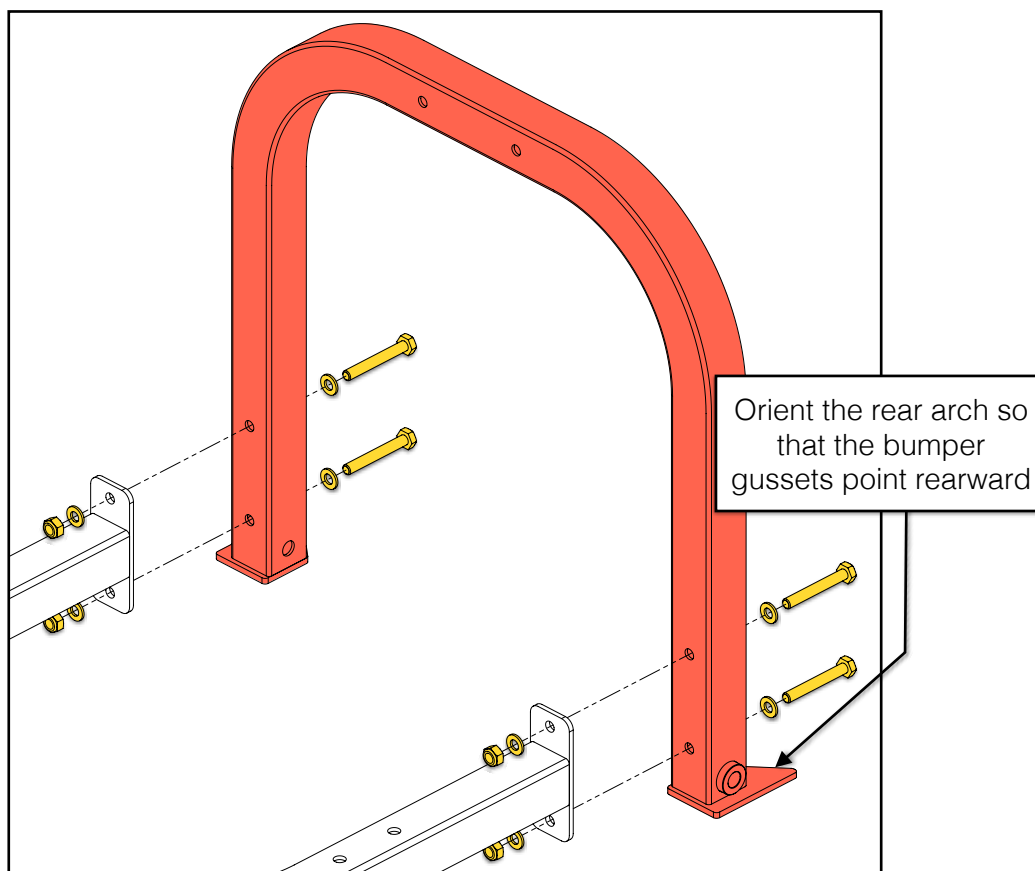


2. REAR ARCH

Join the rear arch to the side beams using the components and hardware listed in the table below.

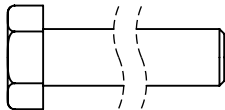
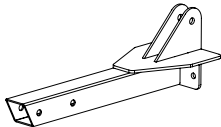
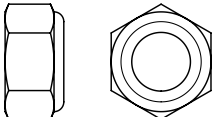
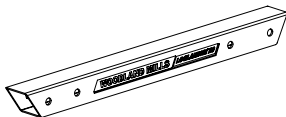
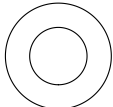
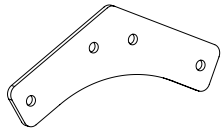
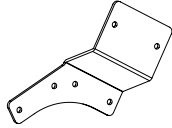

4x	M10 X 75 mm Hex Bolt		1x	Rear Arch	
4x	M10 Lock Nut				
8x	M10 Flat Washer				

Bolt the rear arch to the side beams using four (4) M10 X 75 mm hex bolts, eight (8) M10 flat washers, and four (4) M10 lock nuts. Do *not* fully tighten the hardware.

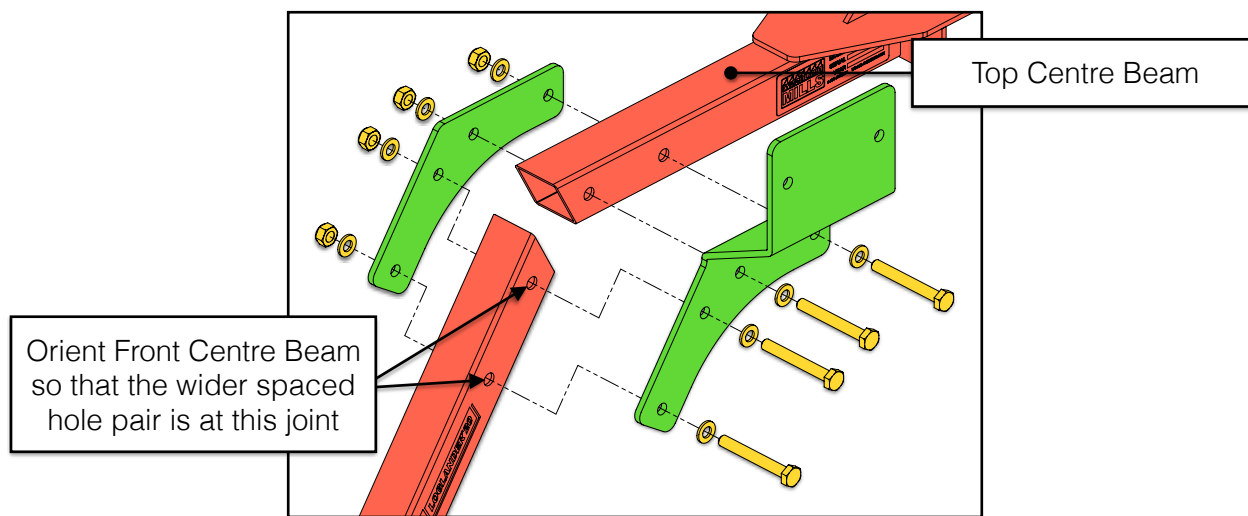


3. CENTRE BEAMS

Join the two centre beams together and then assemble them to the chassis using the components and hardware listed in the table below.

8x	M10 X 80 mm Hex Bolt		1x	Top Centre Beam	
8x	M10 Lock Nut		1x	Front Center Beam	
16x	M10 Flat Washer		1x	Centre Beam Gusset	
			1x	Winch Mount	
			1x	Chain Hook	

Assemble the top beam and front beam together first, separate from the chassis. Use four (4) M10 X 80 mm hex bolts, eight (8) M10 flat washers, and four (4) M10 lock nuts to sandwich the beams between the centre beam gusset and winch mount. Do *not* fully tighten the hardware.

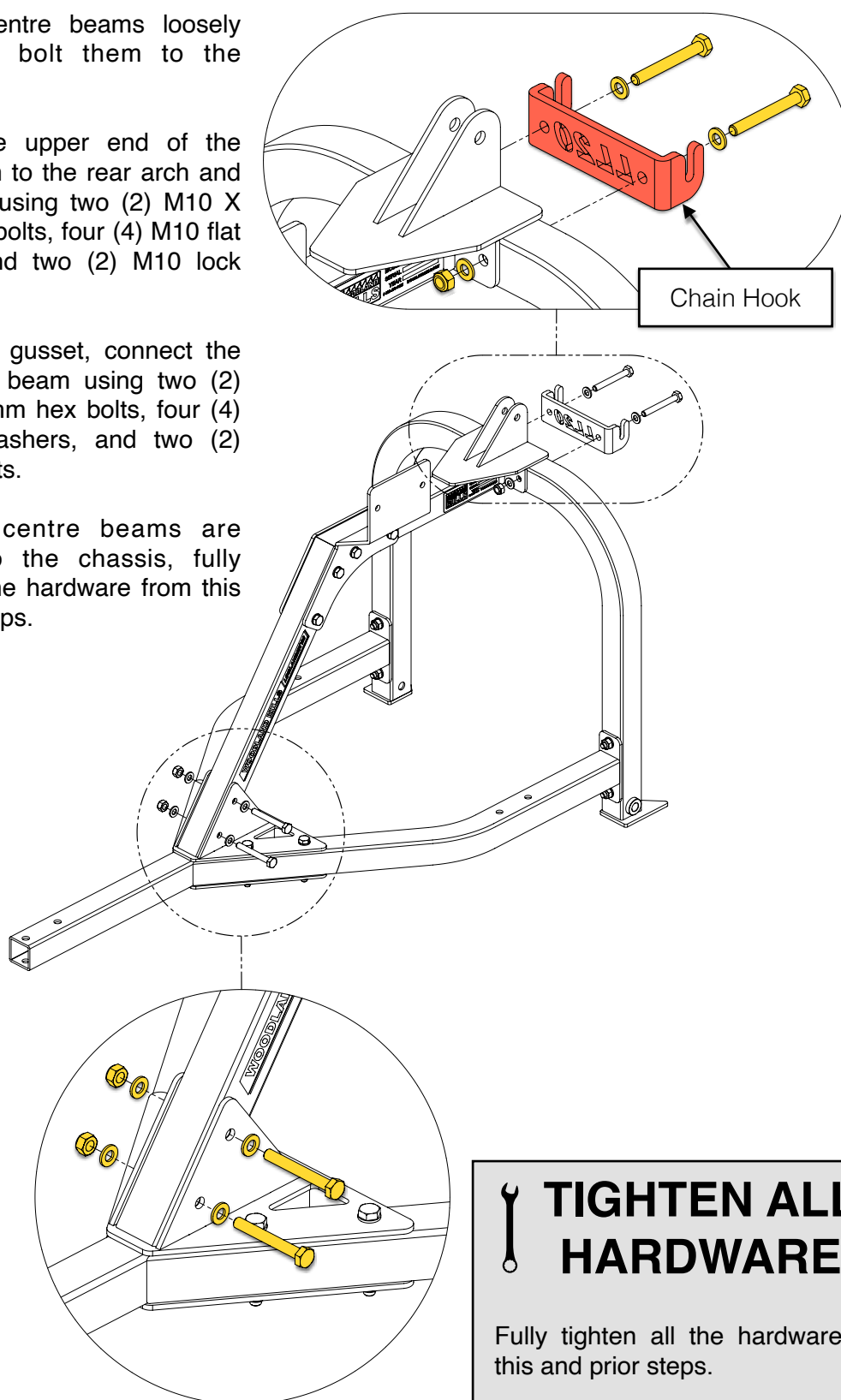


With the centre beams loosely assembled, bolt them to the chassis.

Connect the upper end of the centre beam to the rear arch and chain hook using two (2) M10 X 80 mm hex bolts, four (4) M10 flat washers, and two (2) M10 lock nuts.

At the front gusset, connect the front centre beam using two (2) M10 X 80 mm hex bolts, four (4) M10 flat washers, and two (2) M10 lock nuts.

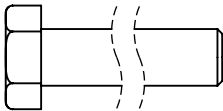
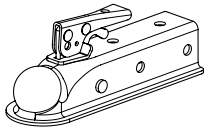
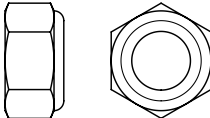
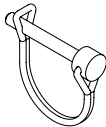
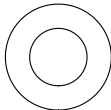
Once the centre beams are attached to the chassis, fully tighten all the hardware from this and prior steps.



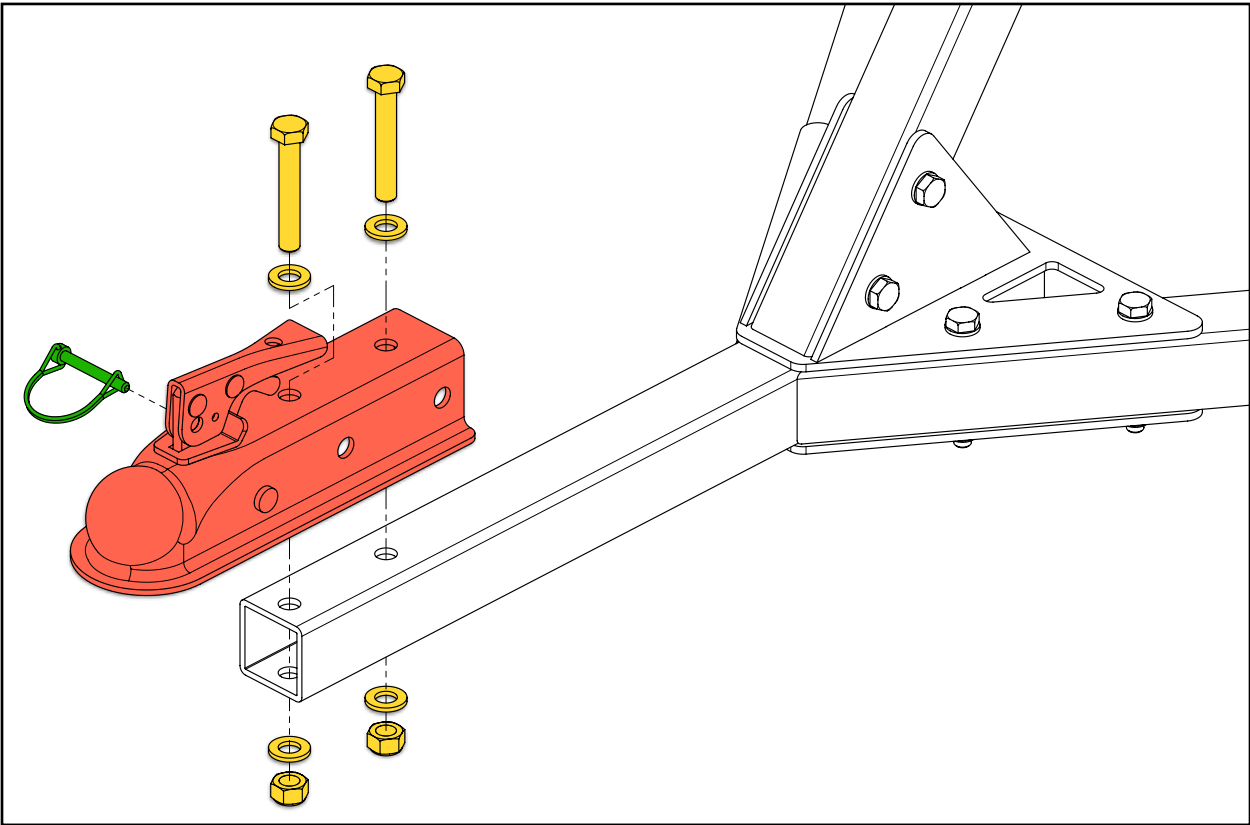


4. COUPLER

Assemble the hitch ball coupler to the tongue using the components and hardware listed in the table below.

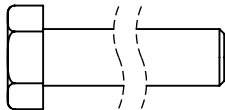
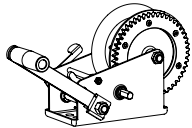
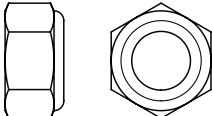
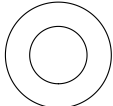
2x	M12 X 75 mm Hex Bolt		1x	Hitch Ball Coupler	
2x	M12 Lock Nut		1x	Round Locking Pin	
4x	M12 Flat Washer				

Use two (2) M12 X 75 mm hex bolts, four (4) M12 flat washers, and two (2) M12 lock nuts to secure the coupler to the tongue. Insert the round locking pin into the coupler. Fully tighten the hardware.

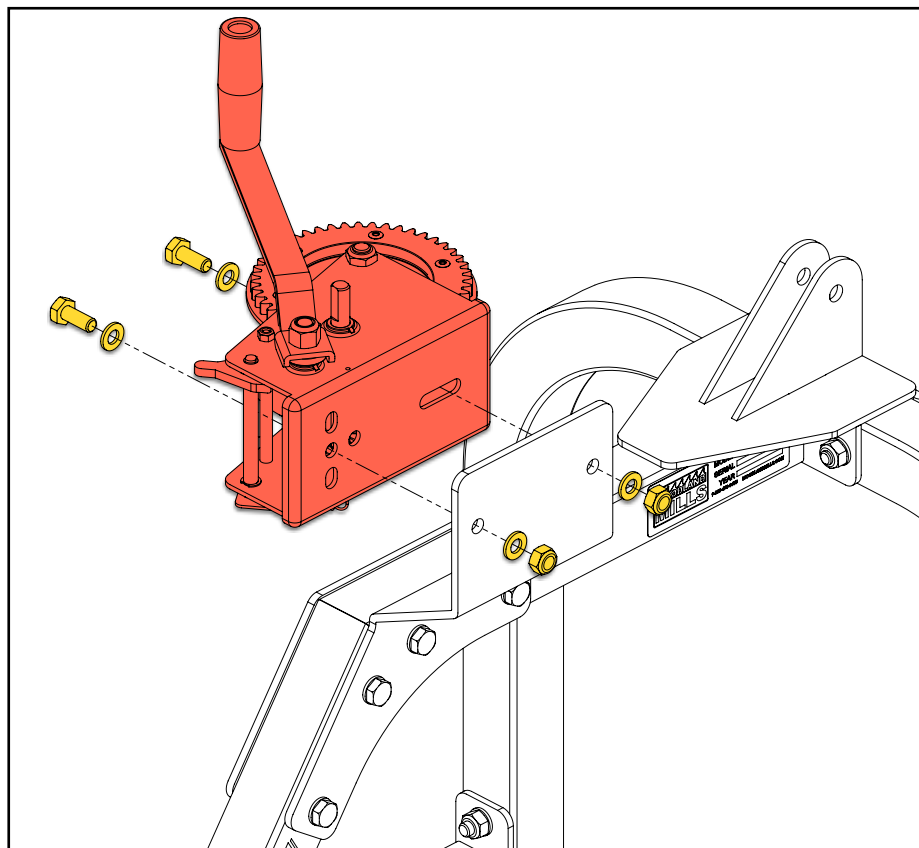


5. WINCH

Assemble the winch assembly to the winch mount on the centre beams using the components and hardware listed in the table below.

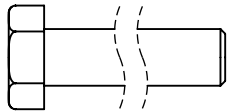
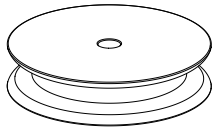
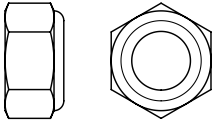
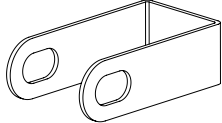
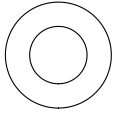
2x	M10 X 25 mm Hex Bolt		1x	Winch Assembly	
2x	M10 Lock Nut				
4x	M10 Flat Washer				

Use two (2) M10 X 25 mm hex bolts, four (4) M10 flat washers, and two (2) M10 lock nuts to secure the winch to the winch mount. Fully tighten the hardware.

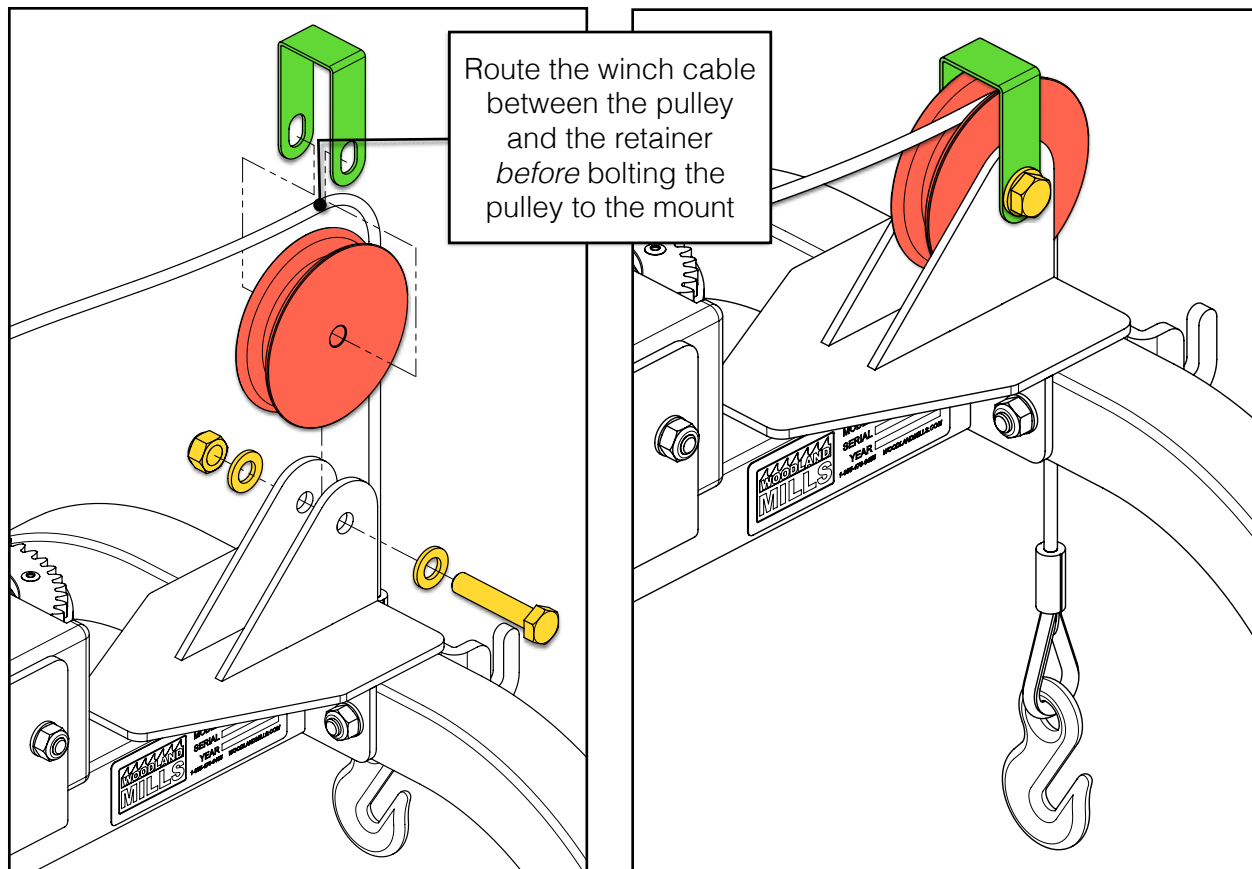


6. PULLEY

Assemble the pulley to the mount on the top centre beam using the components and hardware listed in the table below.

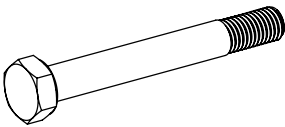

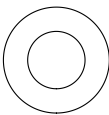

1x	M12 X 60 mm Hex Bolt		1x	Pulley	
1x	M12 Lock Nut		1x	Retainer	
2x	M12 Flat Washer				

Use one (1) M12 X 60 mm hex bolt, two (2) M12 flat washers, and one (1) M12 lock nut to bolt the pulley and retainer to the mount on the top centre beam.



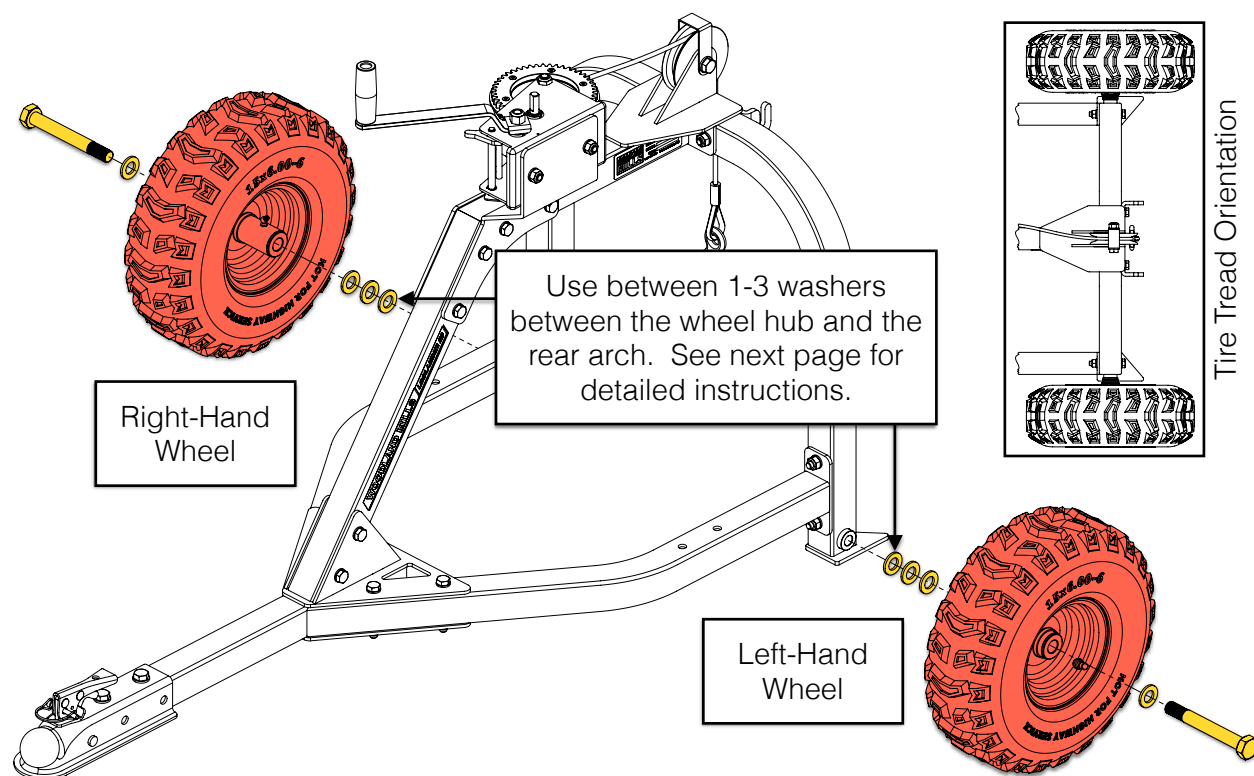
7. WHEELS

Assemble the wheels to the rear arch using the components and hardware listed in the table below. Packing grease and blue threadlocker are required (not included with Loglander™).

2x	Axle Bolt		1x	Left-Hand Wheel	
[8x]	M18 Flat Washer		1x	Right-Hand Wheel	

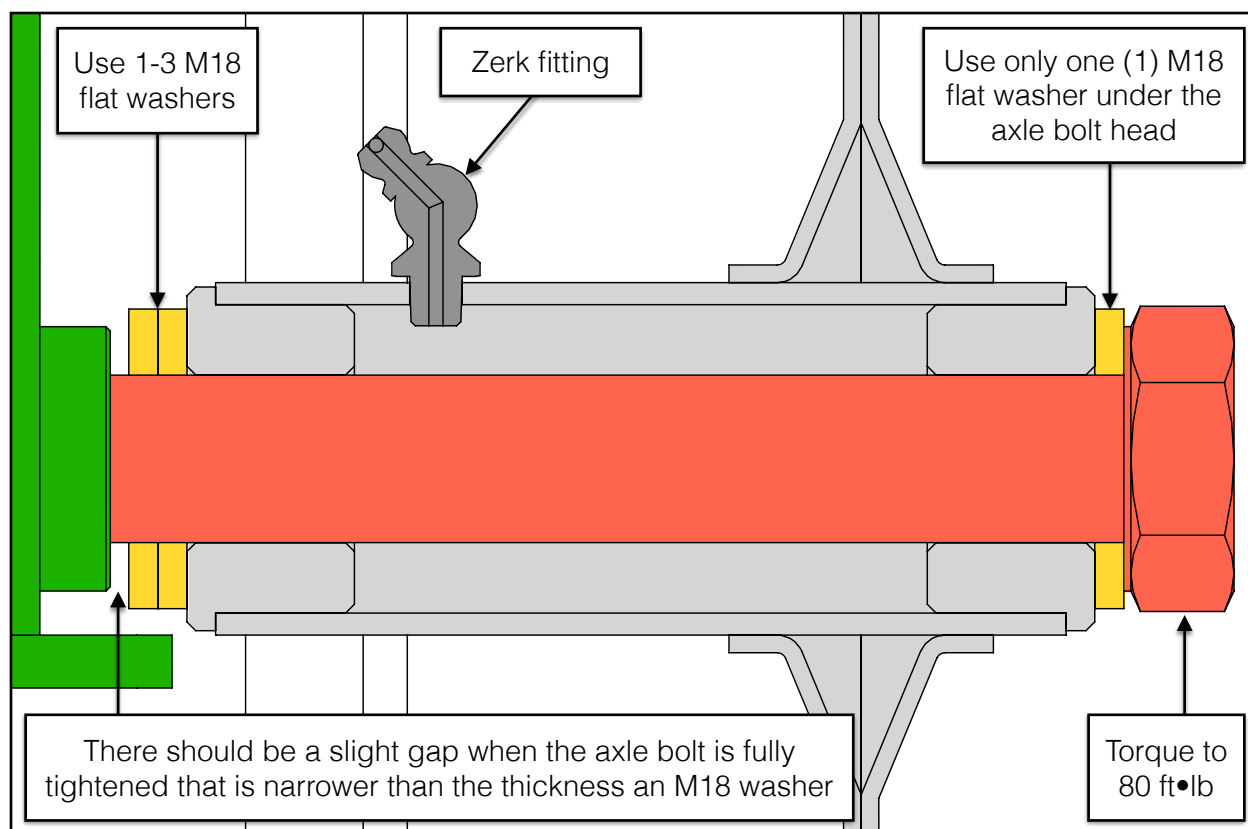
Install the wheels so that they are oriented left/right by the tread pattern (see the inset graphic below for reference). The air valve on the wheel rim points outward when installed correctly.

The wheels are bolted to the rear arch using one (1) axle bolt and up to four (4) M18 flat washers per wheel. See next page for detailed instructions.

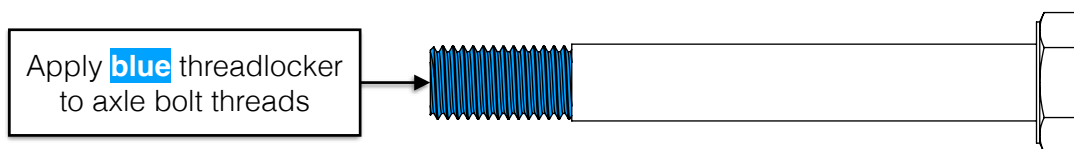


When the axle bolts are fully tightened the wheels *must* spin freely. To accomplish this, it may be necessary to do a couple dry fitment checks before threadlocker and grease are applied.

Install one wheel using an axle bolt with an M18 flat washer under the bolt head and another washer between the wheel hub and the rear arch. Fully tighten the bolt. If the gap between the rear arch and washer is wider than the thickness of a washer, a second (and possibly third) washer should be added between the rear arch and wheel hub to narrow the gap.



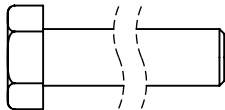
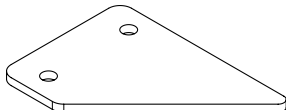
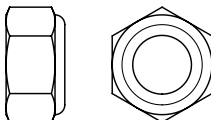
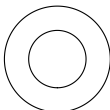
****When the wheel spins freely with the axle bolt fully tightened and the gap is less than a washer thickness, remove the axle bolt and apply blue threadlocker to the threads. Reinstall the wheel with the washers and torque the axle bolt to 80 ft•lb.****



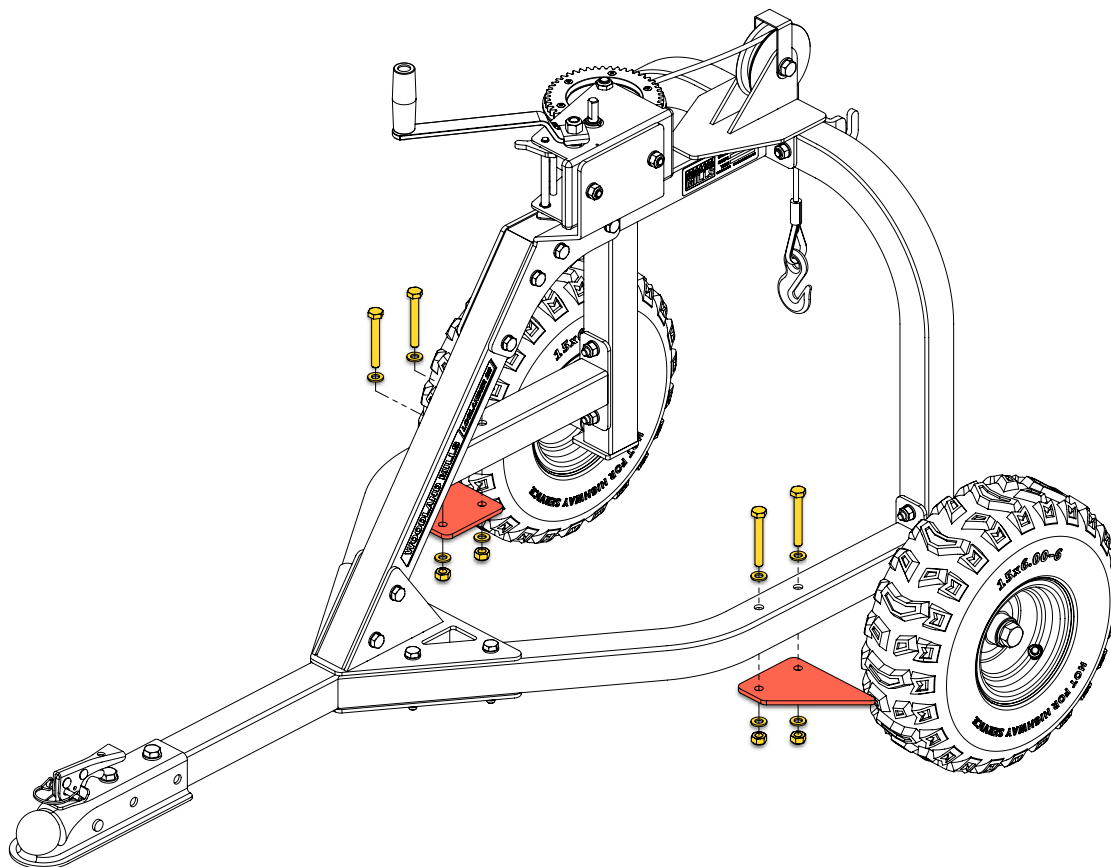
Repeat the installation process for the wheel on the other side. Then add packing grease to each wheel hub (approx. 1.5 oz [44 ml] *per wheel*) via the Zerk fittings until it starts to seep out from behind the washers.

8. WHEEL GUARDS

Assemble the wheel guards to the side beams using the components and hardware listed in the table below.

4x	M10 X 75 mm Hex Bolt		2x	Wheel Guard	
4x	M10 Lock Nut				
8x	M10 Flat Washer				

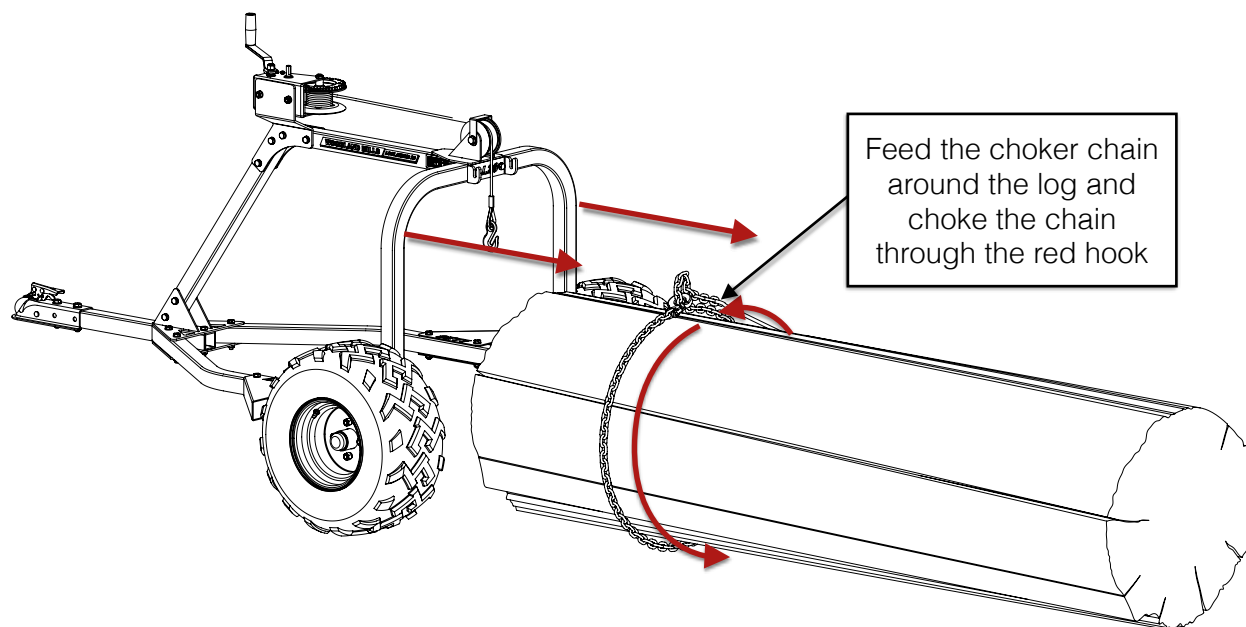
Bolt one wheel guard to the bottom side of each side beam using two (2) M10 X 75 mm hex bolts, four (4) M10 flat washers, and two (2) M10 lock nuts per side. Fully tighten the hardware.



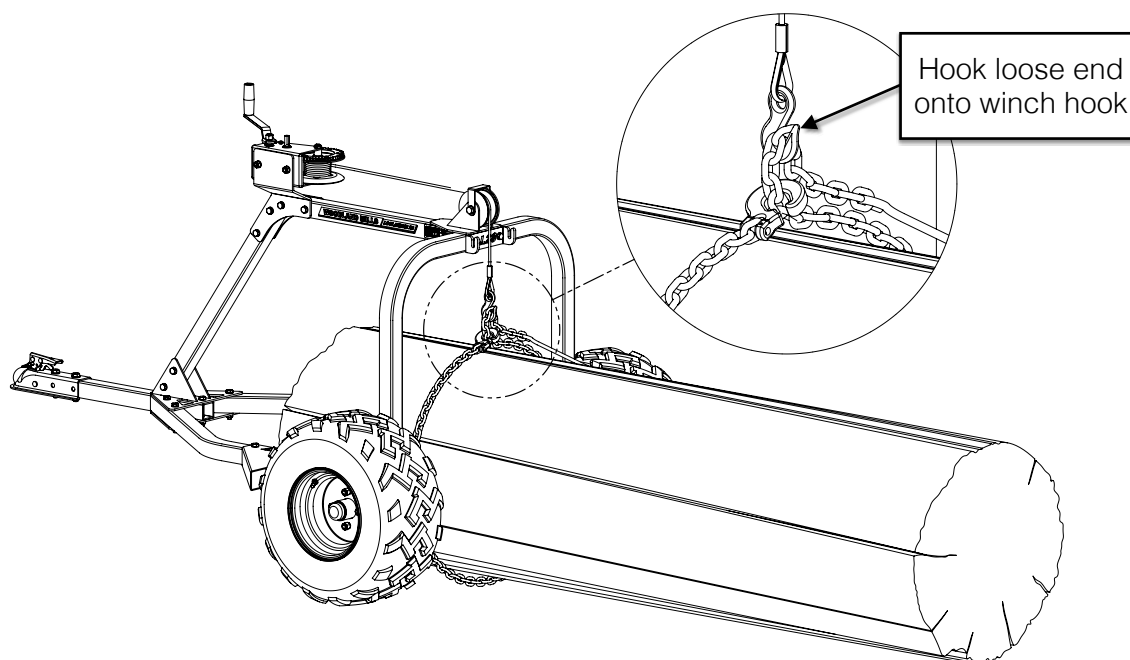
OPERATION

Follow the steps below to hook and haul timber using the Loglander™ 20 Log Arch.

1. Feed the choker chain probe stake under and around the fallen log, choking the chain through the red hook on the top side of the log. Back the trailer over the log.

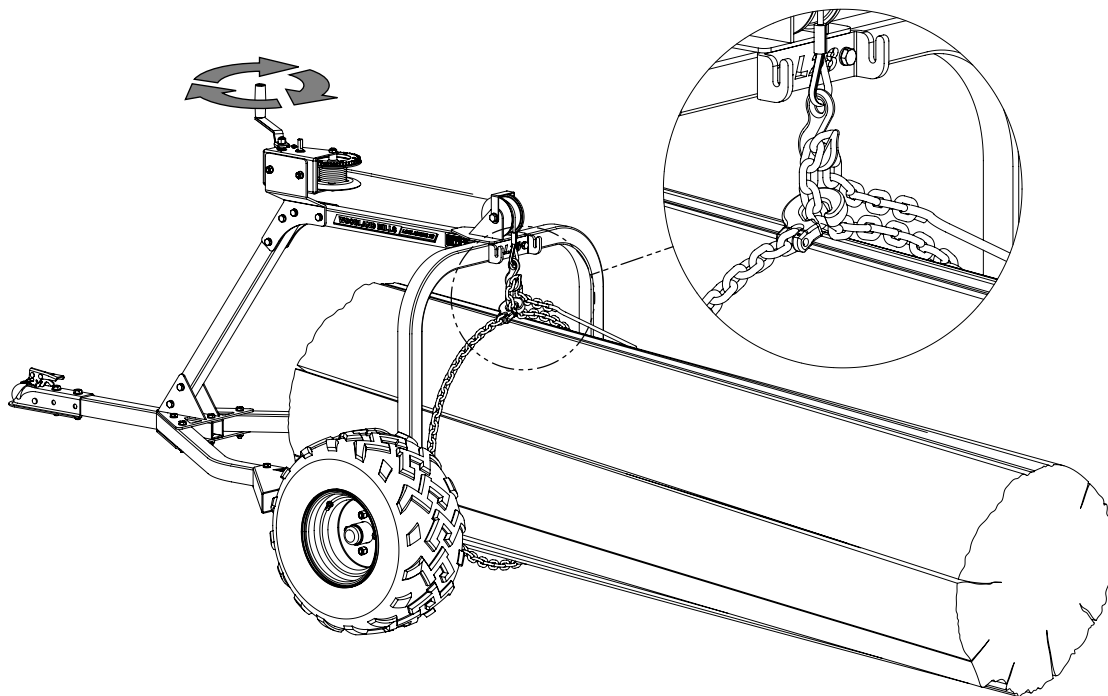


2. Hook the loose end of the chain onto the winch cable grab hook.

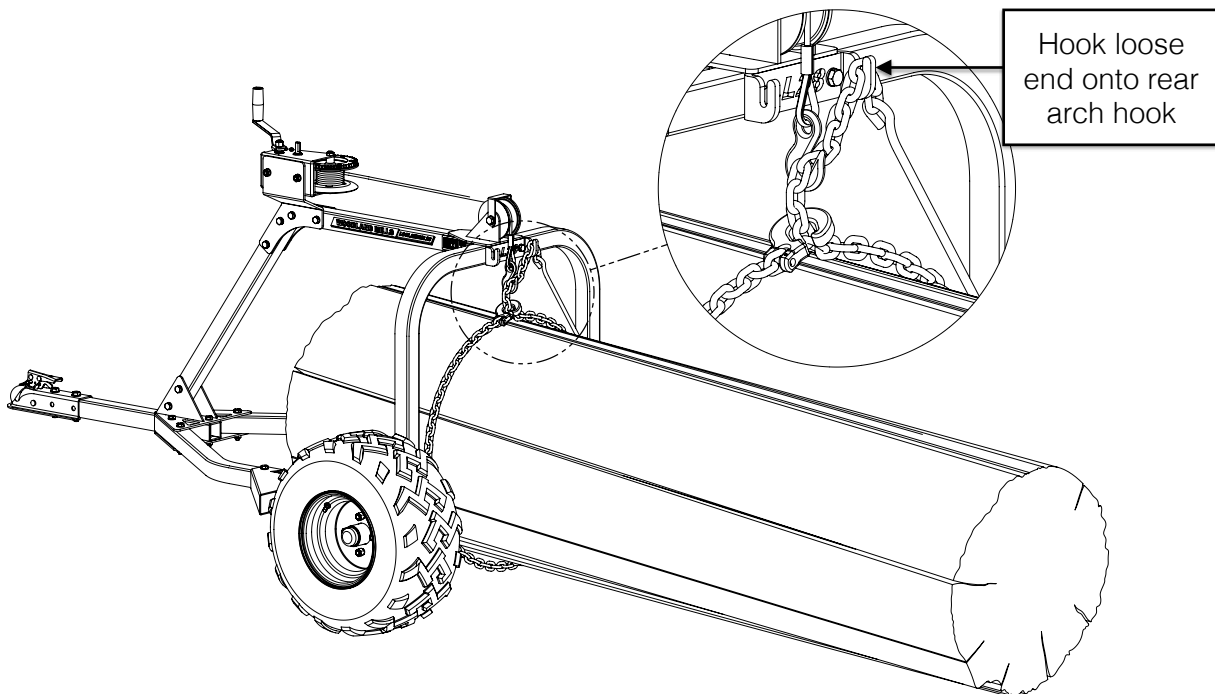


Loglander™ 28 Shown. Operation is the same for the Loglander™ 20.

3. Crank the winch to raise the end of the log off the ground.

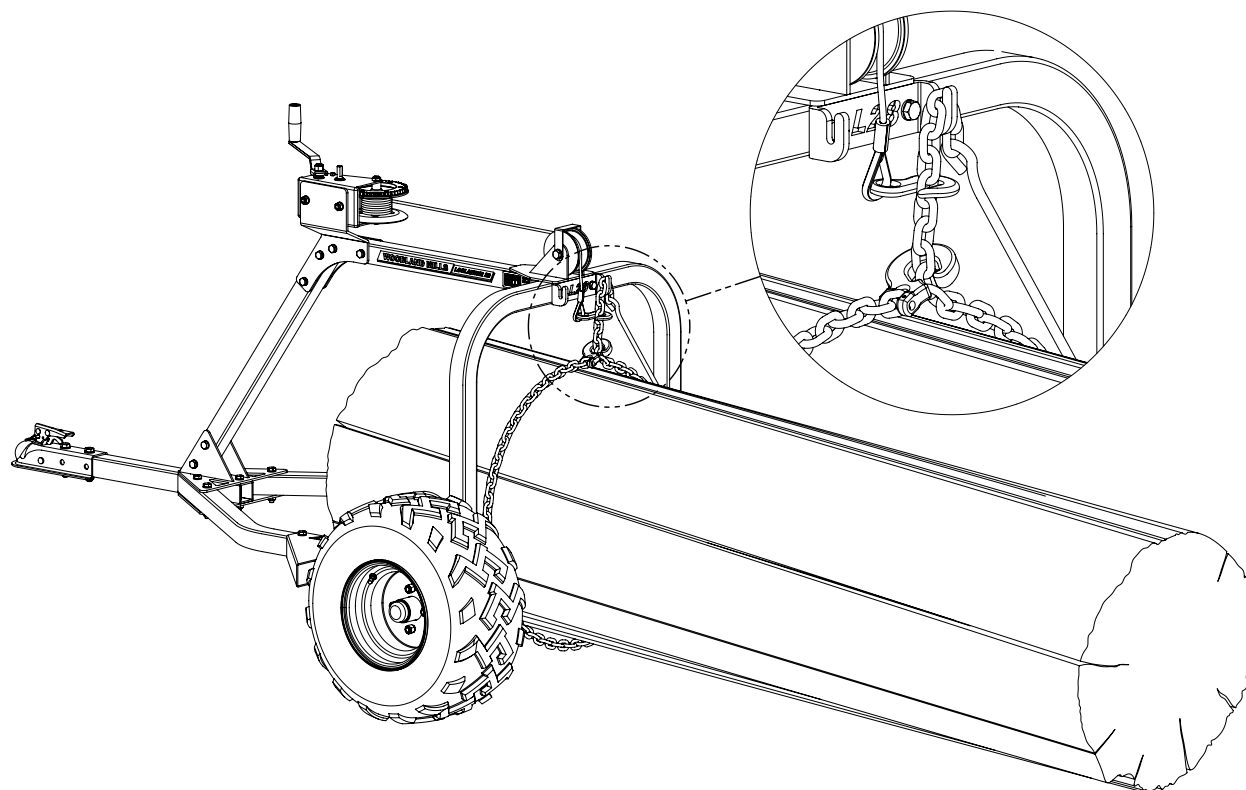


4. Hook the loose end of the chain onto the rear arch hook.



Loglander™ 28 Shown. Operation is the same for the Loglander™ 20.

5. Lower the winch until the weight of the log is off the winch cable and is supported solely by the choker chain. The winch grab hook can either be unhooked or left loosely hanging on the chain.



WARNING!



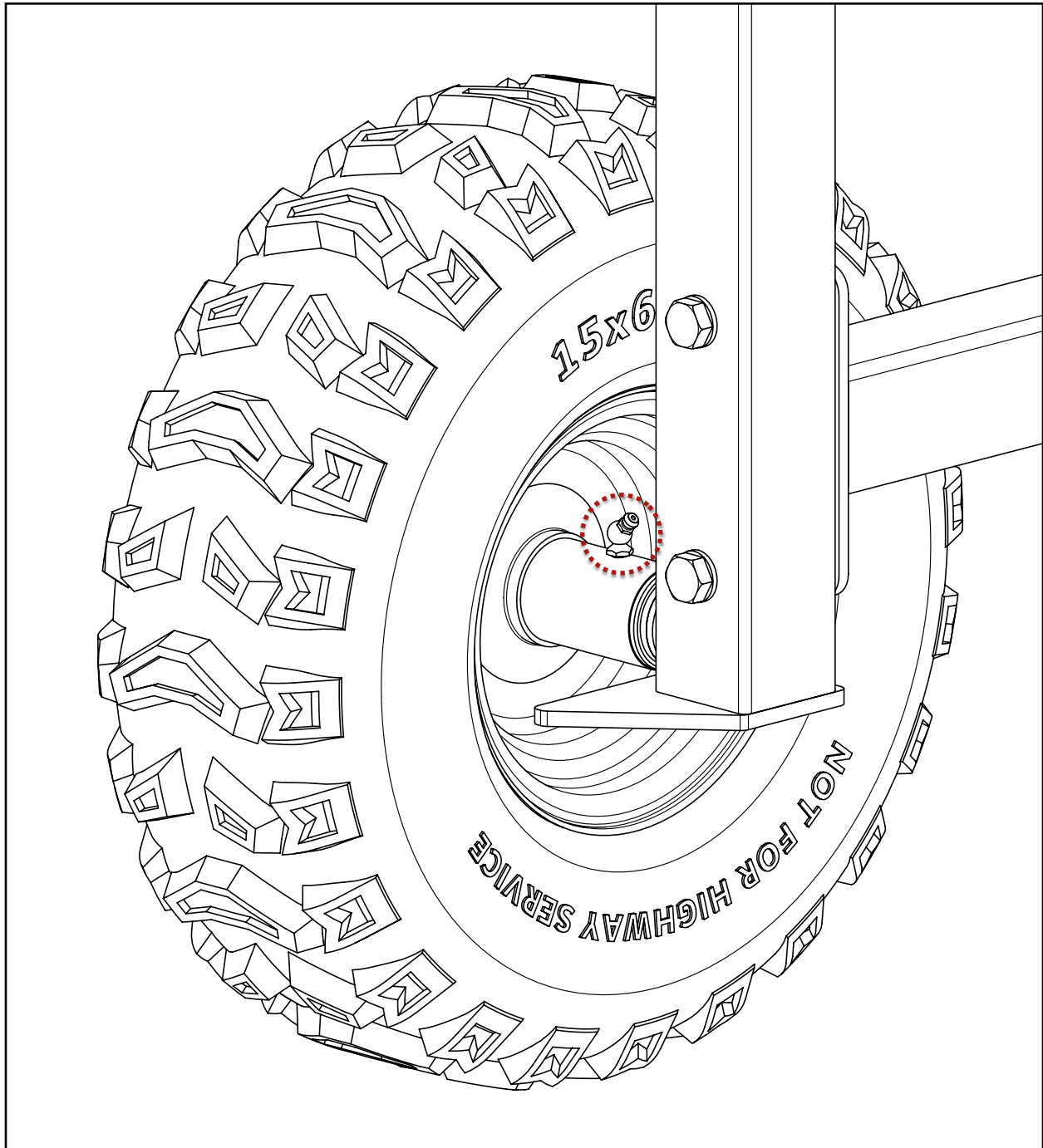
Always use the choker chain to support the weight of the log while towing the Loglander™.

6. Haul the log to its final destination.
7. Hook the winch grab hook back on the chain just above the red choke hook (if it is not already). Crank the winch up until the weight of the log is off the loose end of the choker chain. Unhook the choker chain from the rear arch hook and use the winch to lower the log to the ground.
8. Disconnect the winch cable from the choker chain and remove the choker chain from the log.

Loglander™ 28 Shown. Operation is the same for the Loglander™ 20.

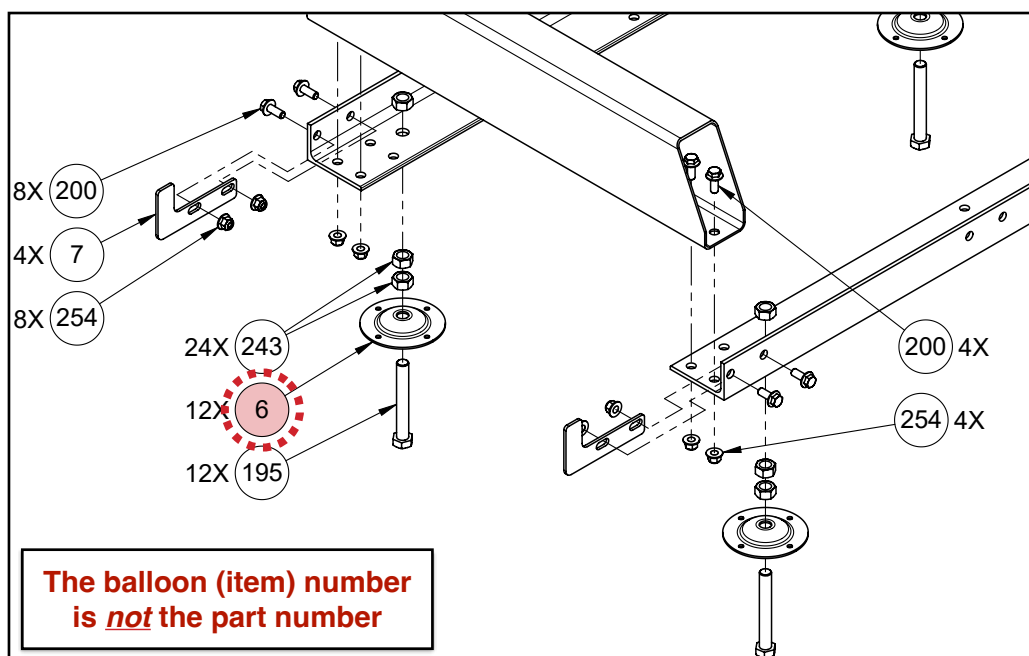
MAINTENANCE

The Loglander™ has two (2) Zerk fitting grease points: one (1) on the inside of each wheel hub. Check each grease point prior to use and add grease as needed.



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:

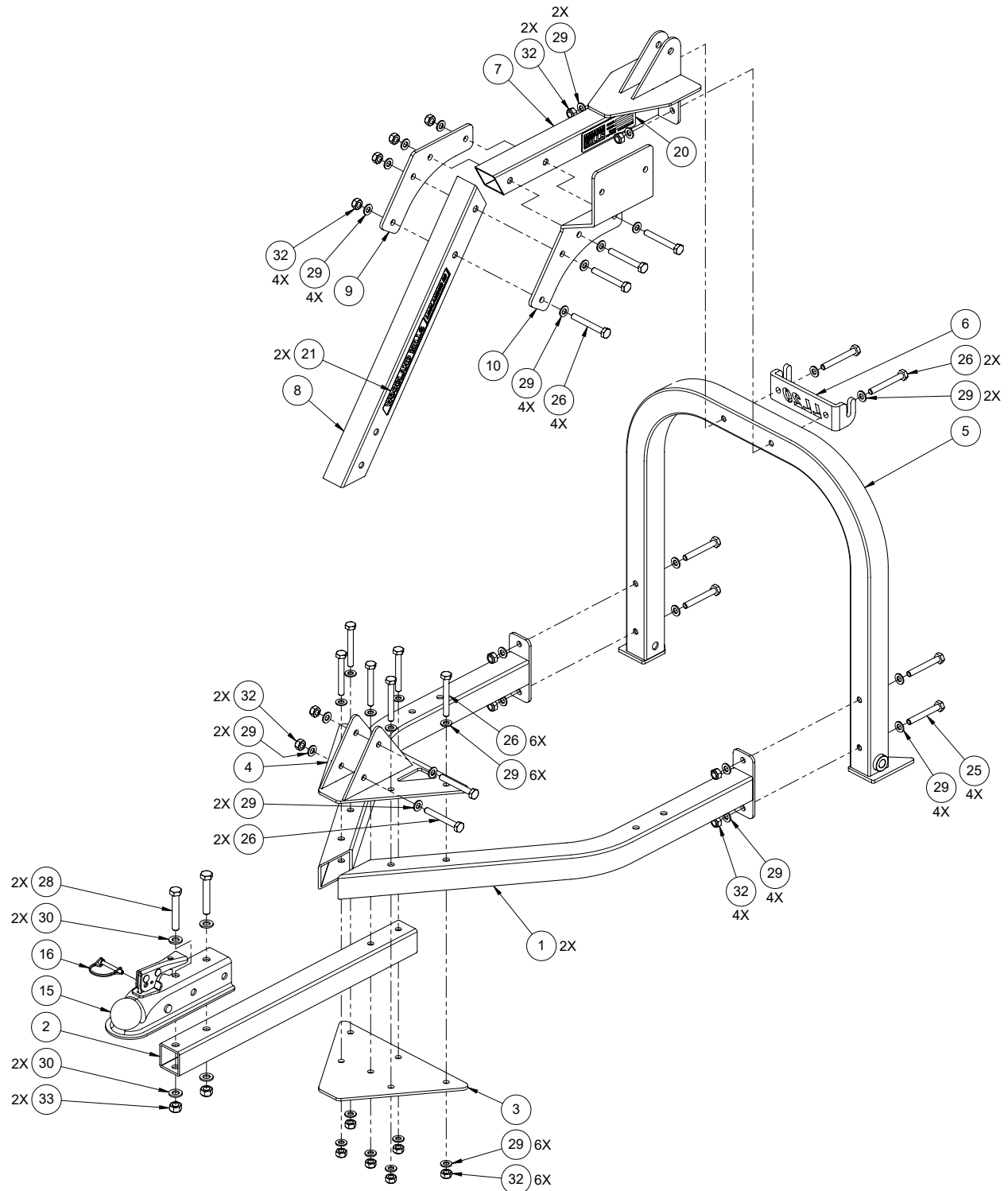
PARTS LIST

Item	Quantity		Part No.	Description
	14 hp	9.5 hp		
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
5	2	2	0001072	REINFORCEMENT PLATE, 90 X 200 mm
6	12	12	0001071	LEVELLING FOOT BASE
7	4	4	0001055	CARRIAGE STOP
8	1	1	0001062	LOG CLAMP SHAFT AND BRACKET WELDMENT

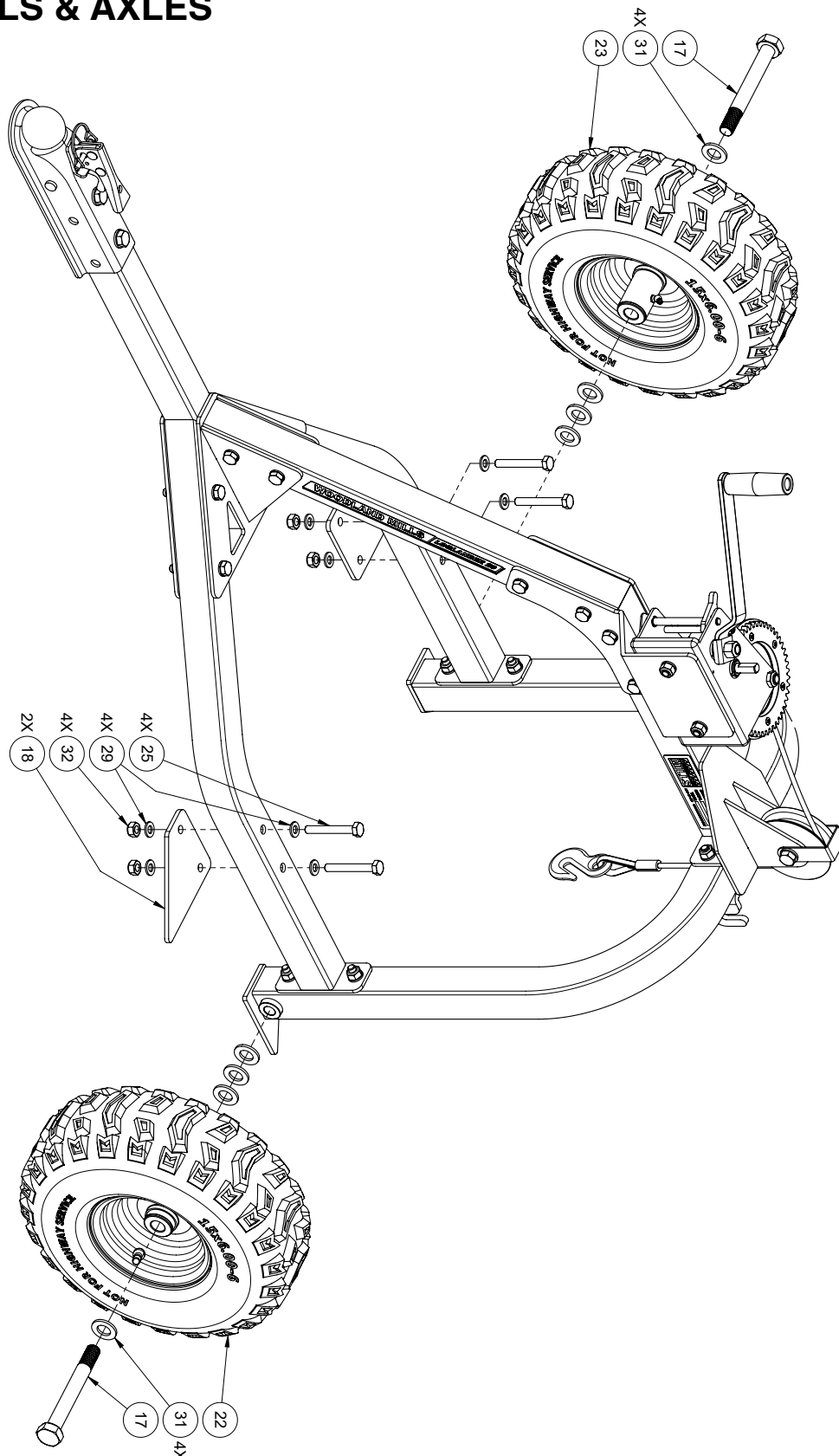
Record the part number (e.g. 0001071, HHB-MBM080FCJ, etc.) from the “**Part No.**” column.

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 CHASSIS

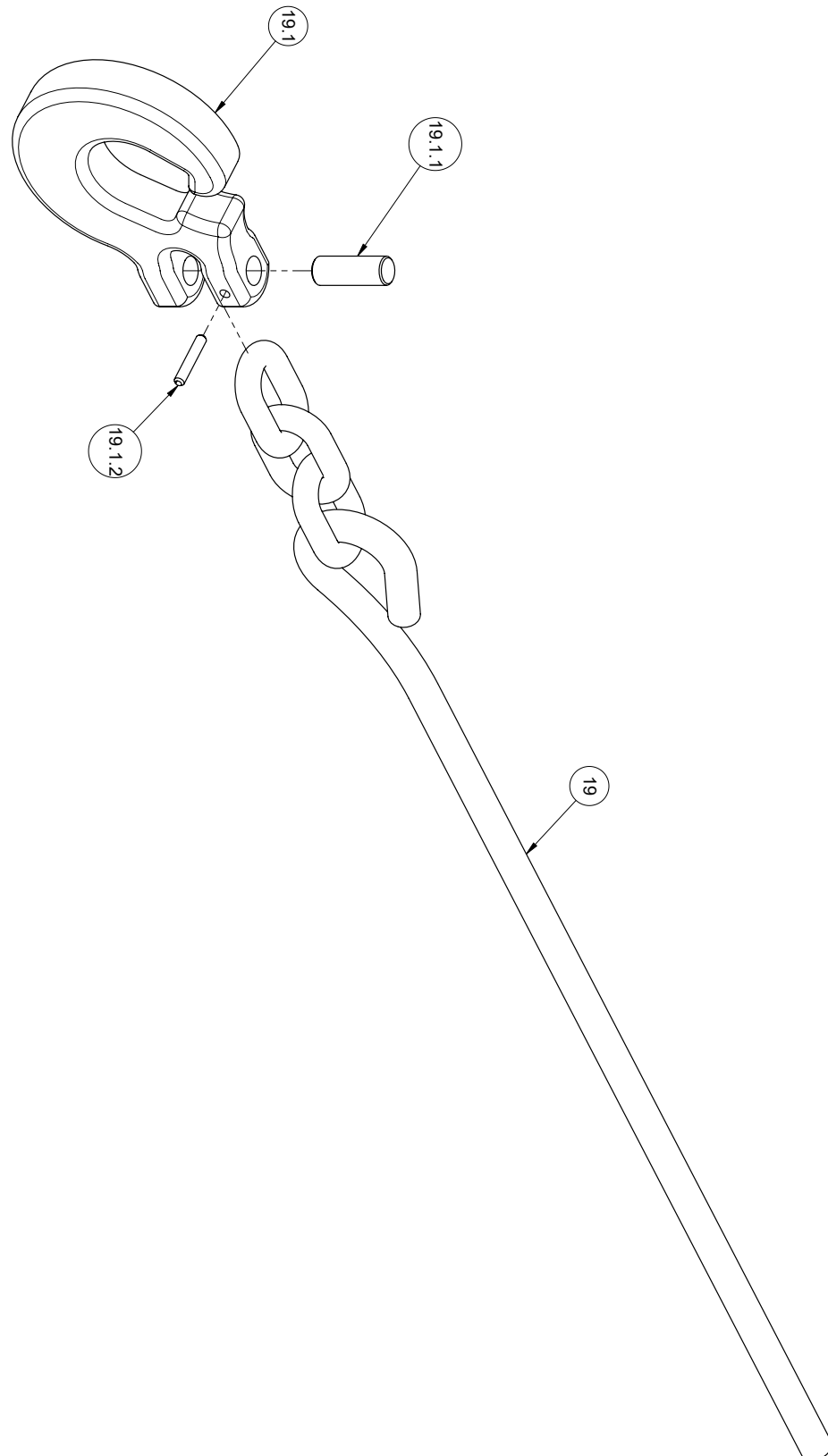


WHEELS & AXLES





CHOKER CHAIN



Chain length
reduced for clarity



PARTS LIST

Item	Qty	Part No.	Description
1	2	0008329	SIDE BEAM
2	1	0007572	TONGUE
3	1	0008061	FRONT GUSSET, BOTTOM
4	1	0008059	FRONT GUSSET, TOP
5	1	0008326	REAR ARCH
6	1	0008813	CHAIN HOOK
7	1	0008330	CENTRE BEAM, TOP
8	1	0008336	CENTRE BEAM, FRONT
9	1	0008114	GUSSET, CENTRE BEAMS
10	1	0008115	WINCH MOUNT
11	1	0001452	WINCH, 2500 lb
12	1	0008280	WIRE ROPE W/ 5/16 in GRAB HOOK, 1/4 in [6 mm] DIA, 30 ft [9.1 m] LG
13	1	0008337	WIRE ROPE PULLEY, 75 mm GROOVE, 12 mm BORE
14	1	0008341	CABLE RETAINER
15	1	0001381	HITCH BALL COUPLER, 2 in [50.8 mm] BALL, NORTH AMERICA
16	1	0004728	LOCKING PIN, ROUND, 1/4 in DIA, 1-3/8 in USABLE LG, 2 in LG
17	2	0008931	AXLE BOLT, 19 mm DIA, 150 mm LG, M18 X 2.5, 35 mm LG THD
18	2	0008342	WHEEL GUARD
19	1	0002595	CHOKER CHAIN, WLL2T CLEVIS LOGGING HOOK, GRADE: 80 / TRADE SIZE: 8 CHAIN, 118 in [300 cm] LG
19.1	1	0008332	CLEVIS LOGGING HOOK, 7/8-8 WLL2T
19.1.1	1	0008334	DOWEL PIN, 9 mm DIA, 25 mm LG
19.1.2	1	0004771	SPRING PIN, SLOTTED, 3 mm DIA, 20 mm LG
20	1	0008321	SERIAL NUMBER LABEL, TRAILERS, WIDE
21	2	0008925	LABEL, LOGLANDER 20
22	1	15X6.00-6L	WHEEL, 15X6.00-6, 15 in OD TIRE, 6 in WIDE, 6 in DIA RIM, LEFT-HAND
23	1	15X6.00-6R	WHEEL, 15X6.00-6, 15 in OD TIRE, 6 in WIDE, 6 in DIA RIM, RIGHT-HAND
24	2	HHB-MBM080FCJ	HEX HEAD BOLT, CLS 8.8, M10 X 1.5, 25 mm LG, FULL
25	8	HHB-MBM130PCJ	HEX HEAD BOLT, CLS 8.8, M10 X 1.5, 75 mm LG, 26 mm LG THD
26	14	HHB-MBM135PCJ	HEX HEAD BOLT, CLS 8.8, M10 X 1.5, 80 mm LG, 26 mm LG THD
27	1	HHB-MBR115PCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 60 mm LG, 30 mm LG THD
28	2	HHB-MBR130PCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 75 mm LG, 30 mm LG THD
29	48	FTW-MBM000AJ	FLAT WASHER, M10
30	6	FTW-MBR000AJ	FLAT WASHER, M12
31	8	FTW-MCC000AJ	FLAT WASHER, M18
32	24	HLN-MBMCH	LOCK NUT, CLS 8, M10 X 1.5
33	3	HLN-MBRCH	LOCK NUT, CLS 8, M12 X 1.75
33	3	HLN-MBRCH	LOCK NUT, CLS 8, M12 X 1.75



NOTES

Lined area for notes, consisting of 20 horizontal lines.



DISCOVER THE WOODLAND™