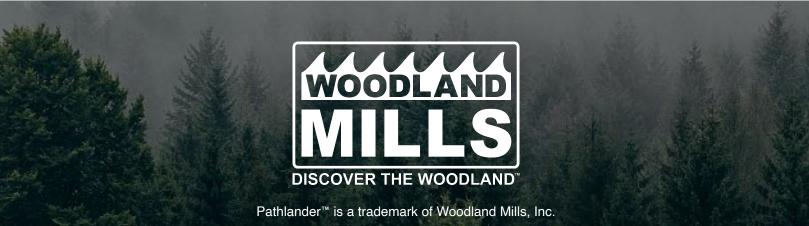
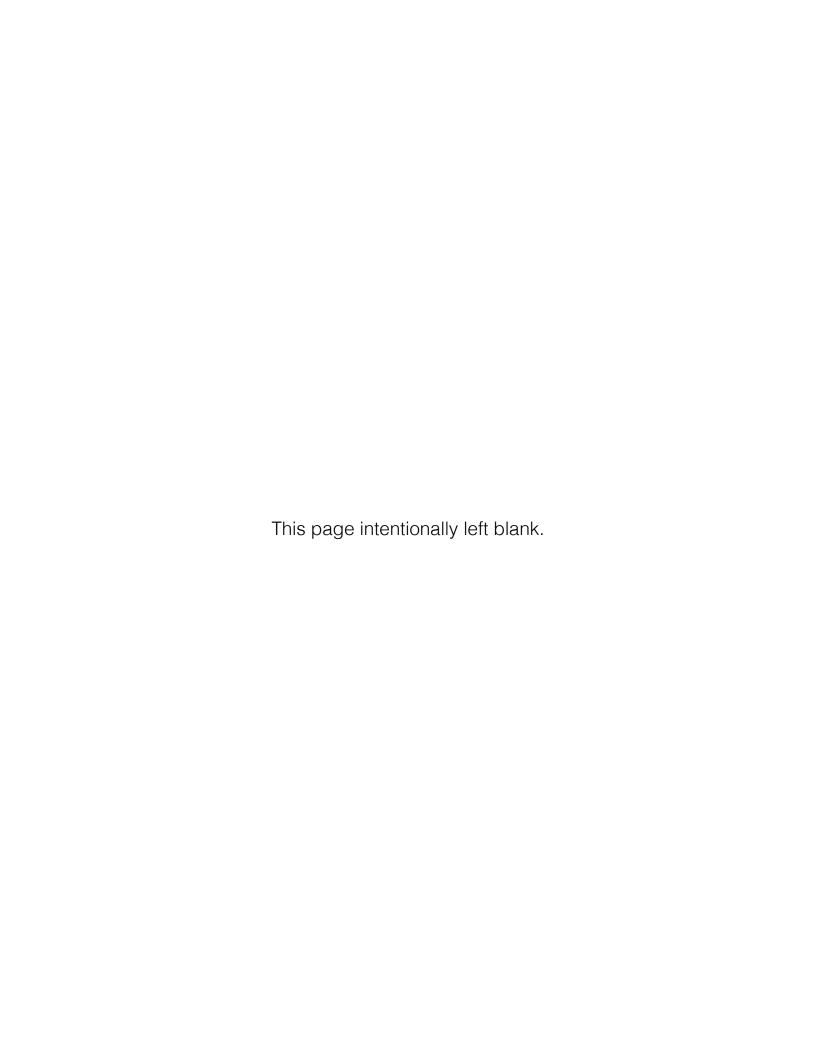
# PATHLANDER™ TRAILER



## **OPERATOR'S MANUAL**

0009226-M-EN: Rev A Publication Date: 16-Jun-2023







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### INTRODUCTION

Congratulations on your purchase and welcome to Woodland Mills! This manual gives you the necessary information about your Pathlander™ trailer so you will be able to use it properly. The entire manual must be read and understood prior to using the trailer. If any questions arise not covered by this manual, please contact Woodland Mills, Inc.

Pathla provid locate	e take a moment to record the following information about your ander™ trailer. If you need to call for assistance, please be ready to be your model and serial numbers. You will find this information d on the underside of the trailer chassis. This information will allow us be you more quickly when you call.
MODE	EL NUMBER
SERIA	AL NUMBER
DATE	OF PURCHASE

The Pathlander™ is a utility trailer designed to be towed behind tractors, RTVs, and ATVs for offroad use.

The Pathlander™ trailer is designed for certain off-road 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, DO NOT 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.

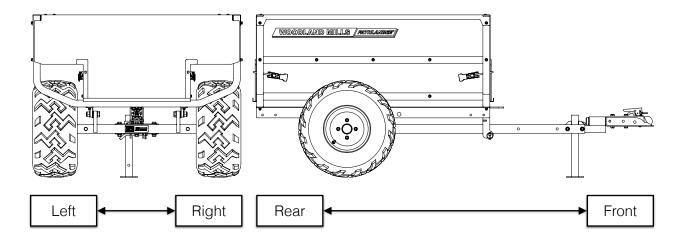
### INSPECTION/MAINTENANCE

- 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 100 hours, 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.



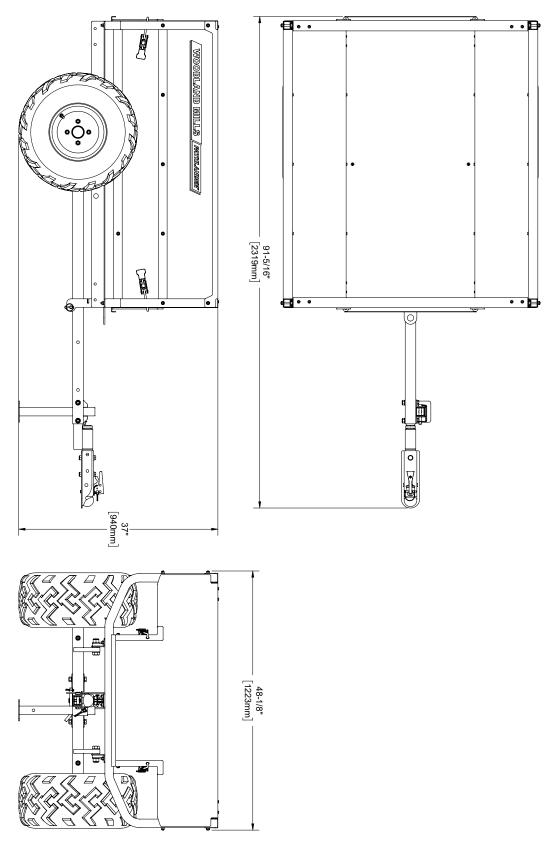
### **TECHNICAL SPECIFICATIONS**

Item	Specification
Construction/Finish	Powder-Coated Tube & Plate Steel
Axle	Fixed Axle Design
Wheels & Tires	4 Bolts @ 4" [101.6 mm] & 23x10.5-12 Tires
Tire Pressure	Refer to Tire
Wheel Nut Torque	80 ft•lb [110 N•m]
Trailer Ball Coupler	2 in [50 mm]
Hauling Capacity	1000 lb [455 kg]
Overall Length	91-5/16 in [2319 mm]
Overall Width	48-1/8 in [1223 mm]
Overall Height	37 in [940 mm]
Utility Box Volume	0.78 yd <sup>3</sup> / 21 ft <sup>3</sup> [0.6 m <sup>3</sup> ]
Utility Box Dump Angle	45° MAX
Product Weight	304 lb [138 kg]
Shipping Weight	412 lb [187 kg]





### **OVERALL DIMENSIONS**





### **COMPONENT LISTS**

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

1x	Axle Cross Beam [0009229]		1x	Hitch Ball Coupler [0001381]	
1x	Draw Bar [0009121]		1x	Round Locking Pin [0004728]	
2x	Chassis Gusset [0009204]		1x	Rubber Bumper [0008139]	
2x	Axle Assembly		1x	Left Lower Beam [0009232]	
2x	Spacer [0002699]		1x	Right Lower Beam [0009230]	
1x 1x	Right Wheel [22X11-10R] Left Wheel [22X11-10L]		2x	Support Rib [0009235]	
1x	Support Leg Holder [0009375]		1x	Cross Beam [0009233]	
1x	Support Leg [0009376]	0 3	1x	Bed Panel [0009234]	
1x	Square Locking Pin - 12 mm Dia [0004704]		2x	Stepped Side Panel [0009236]	
1x	Rotating Hitch Mount [0009198]	9 0	2x	Side Panel [0009237]	



1x	Pickup [0009239]	
1x	Bent-Pull Clevis Pin [0002400]	
1x	Linch Pin [0004720]	
4x	Hook Latch [0002338]	

2x	Tailgate Assembly	
2x	Pin Tow Receiver Plate [0009011]	
1x	Handled Clevis Pin [0009832]	



### **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-MBM130PCJ	M10 X 1.5 X 75 mm HEX BOLT
2x	HHB-MBR125PCJ	M12 X 1.75 X 70 mm HEX BOLT
5x	HHB-MBR130PCJ	M12 X 1.75 X 75 mm HEX BOLT
2x	HHB-MBR135PCJ	M12 X 1.75 X 80 mm HEX BOLT
2x	HHB-MCC120PCJ	M18 X 2.5 X 65 mm HEX BOLT

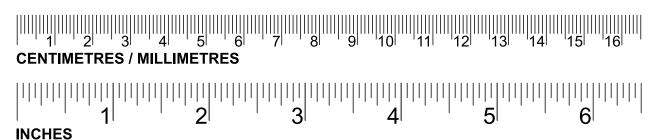


8x	BHS-MBE063FCM	M6 X 1 X 12 mm BUTTON HEAD SCREW
1x	BHS-MBE130FCM	M6 X 1 X 75 mm BUTTON HEAD SCREW
16x	BHS-MBJ067FCM	M8 X 1.25 X 14 mm BUTTON HEAD SCREW
8x	BHS-MBJ110FCM	M8 X 1.25 X 55 mm BUTTON HEAD SCREW
6x	BHS-MBJ115FCM	M8 X 1.25 X 60 mm BUTTON HEAD SCREW
2x	BHS-MBM110PCM	M10 X 1.5 X 55 mm BUTTON HEAD SCREW
2x	BHS-MBM115PCM	M10 X 1.5 X 60 mm BUTTON HEAD SCREW



### **SCALES**

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



#### **WASHERS**

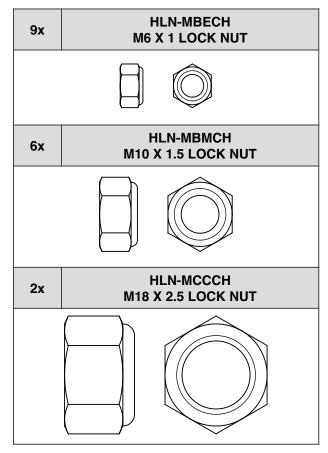
2x	FTW-MBE000AJ M6 FLAT WASHER
8x	FTW-MBM000AJ M10 FLAT WASHER
6x	FTW-MCC000AJ M18 FLAT WASHER

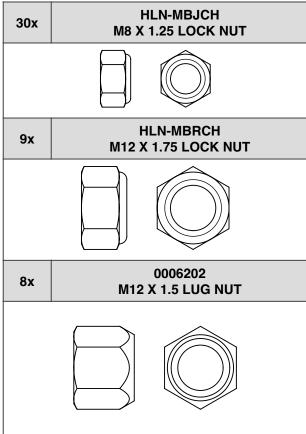
30x	FTW-MBJ000AJ M8 FLAT WASHER
18x	FTW-MBR000AJ M12 FLAT WASHER



16-Jun-2023

### **NUTS**







### **TOOLS REQUIRED**

Tool	Specification
Wrench/Socket	10 mm
Wrench/Socket	13 mm
Wrench/Socket	16 mm
Wrench/Socket	17 mm
Wrench/Socket	18 mm
Wrench/Socket	19 mm
Wrench/Socket	27 mm
Adjustable Wrench	Variable
Hex Key	4 mm
Hex Key	5 mm
Torque Wrench	Capable of 80 ft•lb (109 N•m)
Packing Grease	Multipurpose Grease

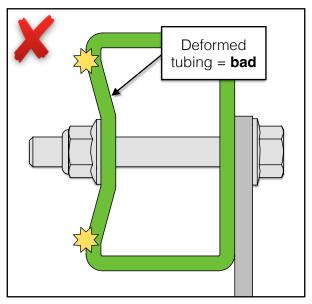


### **BOLT TORQUE**



### **BOLT TORQUE WARNING!**

When assembling the trailer, do <u>not</u> 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.



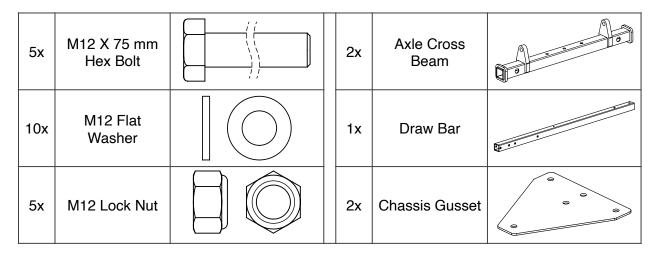
DO <u>NOT</u> TORQUE TO SPEC WHEN BOLTING THROUGH TUBING. SNUG HARDWARE, THEN TIGHTEN A FURTHER ½—½ TURN.



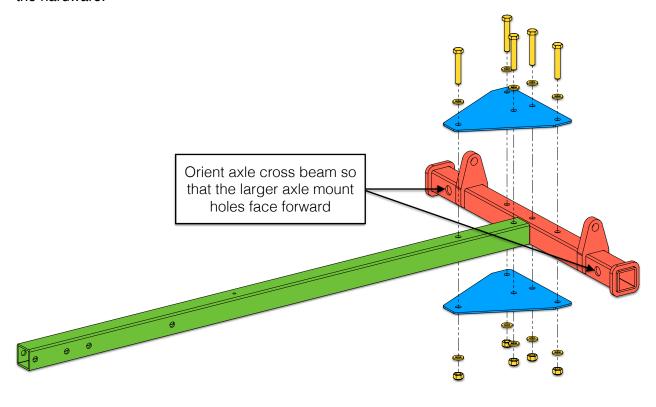
### **CHASSIS ASSEMBLY**

### 1. FRAME

Using the components and hardware listed below, assemble the axle cross beam to the draw bar.



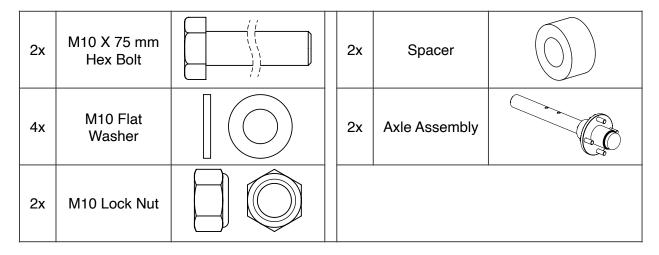
Use five (5) M12 X 75 mm hex bolts, ten (10) M12 flat washers, and five (5) M12 lock nuts to sandwich the axle cross beam and draw bar between the chassis gussets. Do *not* fully tighten the hardware.



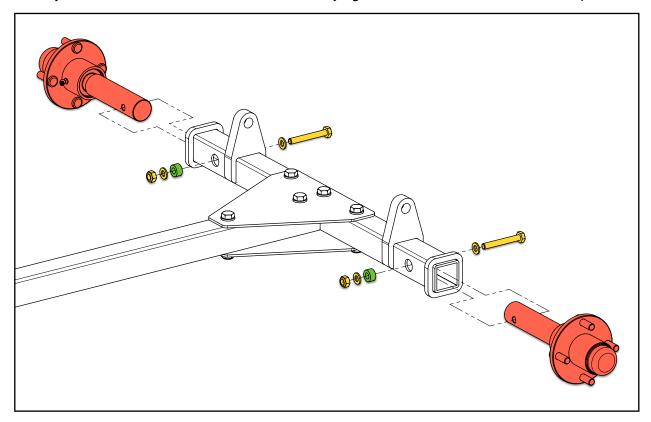


### 2. AXLES

Using the components and hardware listed below, assemble the axles to the axle cross beam.



Use one (1) M10 X 75 mm hex bolt, one spacer, two (2) M10 flat washers, and one (1) M10 lock nut to join each axle to the axle cross beam. Fully tighten all the hardware from this step.

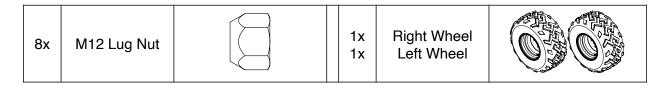


\*\*Note: The spacers will *not* seat against the front face of the axle cross beam—they pass through the large front-side holes. This is normal.\*\*



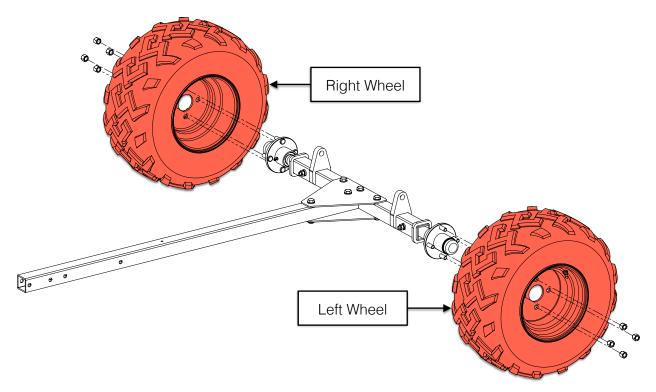
### 3. WHEELS

Using the hardware listed below, assemble the wheels to the axle assemblies.



Ensure the wheels are oriented so that the tread pattern faces the correct direction. Install the wheels to the axle hubs and torque all the lug nuts to 80 ft·lb.

\*\*Note: the M12 lug nuts may come installed on the axle hubs.\*\*

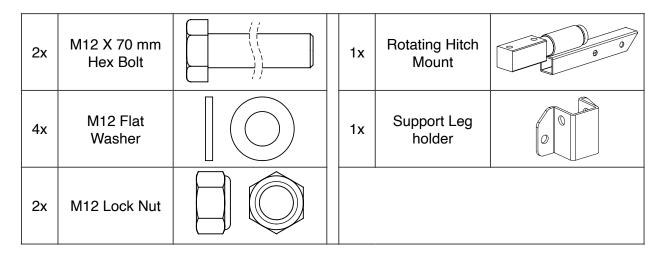


The tires are shipped without air. Inflate the tires to the manufacturer's recommended pressure located on the tire sidewall.



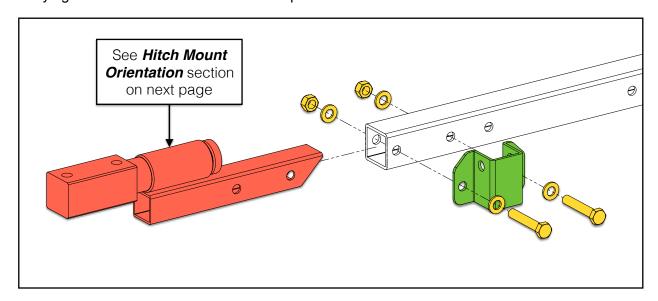
### 4. ROTATING HITCH MOUNT

Using the hardware listed below, assemble the rotating hitch mount and support leg holder to the draw bar.



Use two (2) M12 X 70 mm hex bolts, four (4) M12 flat washers, and two (2) M12 lock nuts to secure the rotating hitch mount and support leg holder to the draw bar See section, *Hitch Mount Orientation*, on the next page to determine if the ideal mount orientation.

Fully tighten all the hardware from this step.

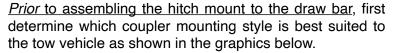


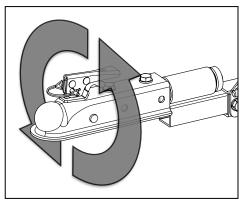


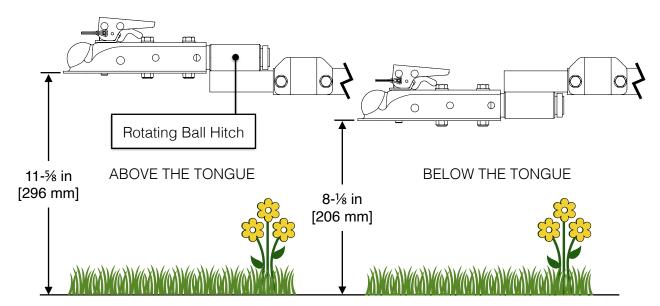
#### HITCH MOUNT ORIENTATION

When the hitch ball coupler is assembled to the hitch mount in a later step, it will become a 360° rotating ball hitch (see *right*).

The hitch mount can be used with the hitch ball coupler positioned above the draw bar or below the draw bar (see graphics below). This helps keep the trailer level based on the towing vehicle's ball height measured from the ground.







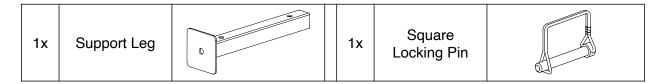
With the *Below the Tongue* style, the mount is flipped 180° so that the rotating ball hitch is on the bottom.

Once the coupler mounting style is decided upon, continue with the chassis assembly on the next page. This manual is illustrated using the *Above the Tongue* style, however, the assembly steps proceeding the chassis assembly are identical no matter which orientation is used.

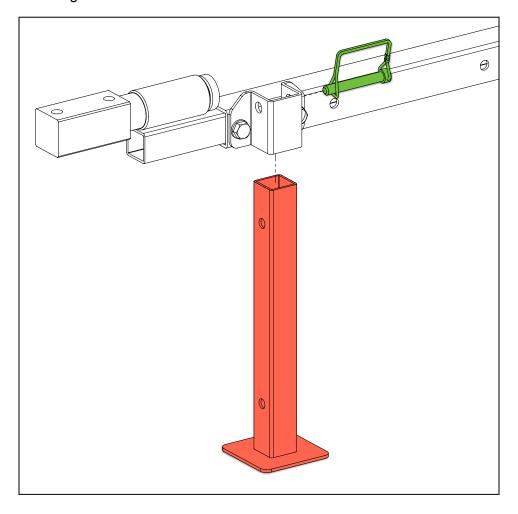


### 5. SUPPORT LEG

Using the components listed below, assemble the support leg to the support leg mount.



Slide the leg up through the bottom of the support leg mount and then lock it in place with the square locking pin. Use either the upper or lower holes in the support leg to set how high the coupler sits off the ground.

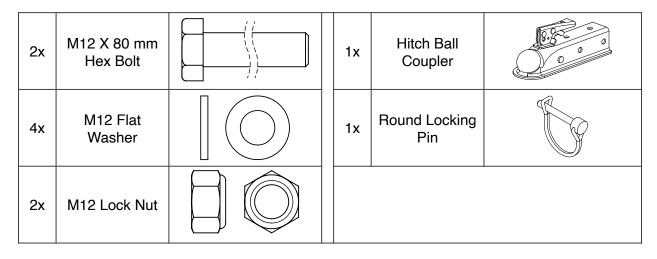




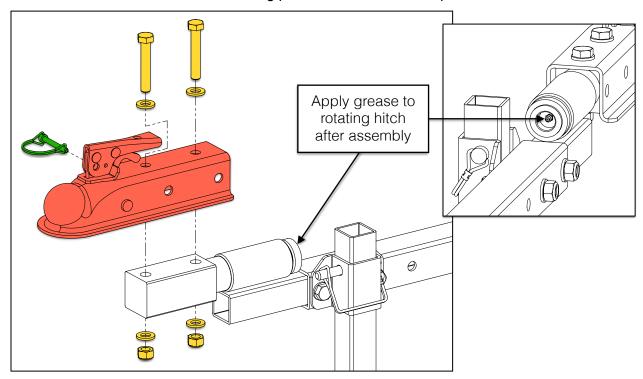
### 6. COUPLER

\*\*For hitch ball-equipped tow vehicles only. For tow pin coupler installation instructions, skip to the next page.\*\*

Using the components and hardware listed below, assemble the hitch ball coupler to the rotating hitch on the hitch mount.



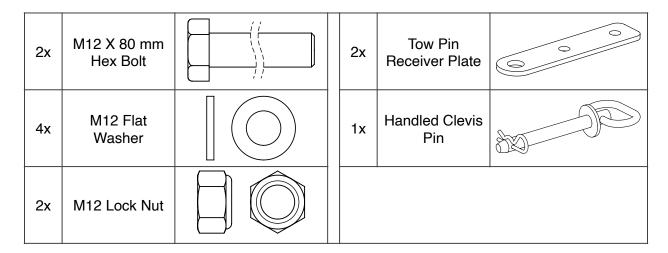
Use two (2) M12 X 80 mm hex bolts, four (4) M12 flat washers, and two (2) M12 lock nuts to secure the hitch ball coupler to the rotating hitch on the hitch mount. Fully tighten all the hardware. Then install the round locking pin into the hitch ball coupler release.



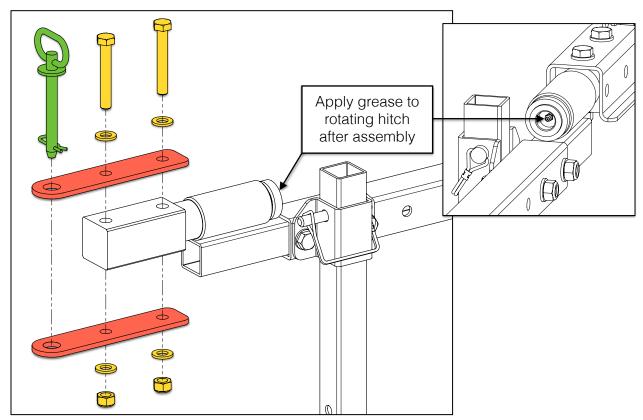


#### \*\*For tow pin-equipped vehicles only. Otherwise, skip this page.\*\*

Using the components and hardware listed below, assemble the tow pin coupler to the rotating hitch on the hitch mount.



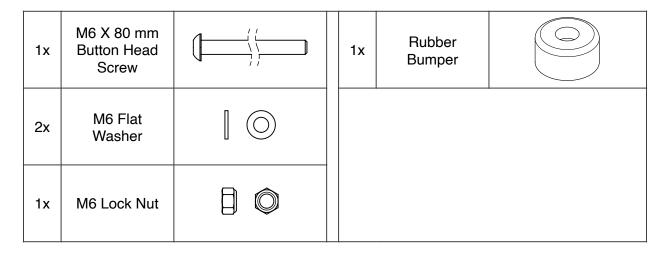
Use two (2) M12 X 80 mm hex bolts, four (4) M12 flat washers, and two (2) M12 lock nuts to secure the receiver plates to the rotating hitch on the hitch mount. Fully tighten all the hardware. Then insert the handled clevis pin until the trailer is hitched to a tow vehicle.



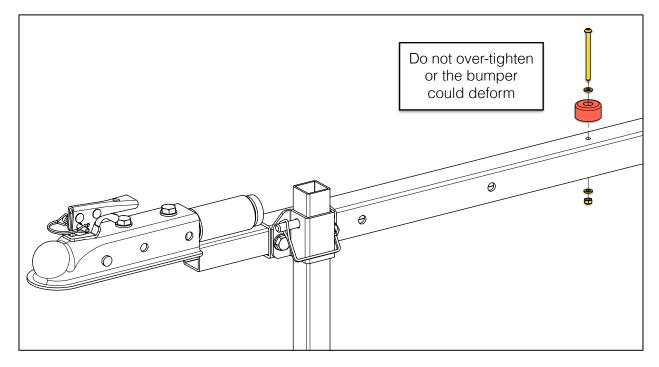


### 7. BUMPER

Using the components and hardware listed below, assemble the bumper to the draw bar.



Use one (1) M6 X 80 mm button head screw, two (2) M6 flat washers, and one (1) M6 lock nut to secure the bumper to the draw bar. Take care not to over-tighten the hardware so that the bumper does not deform.





## UTILITY BOX ASSEMBLY 1. FRAME

Using the components and hardware listed below, assemble the utility box frame.

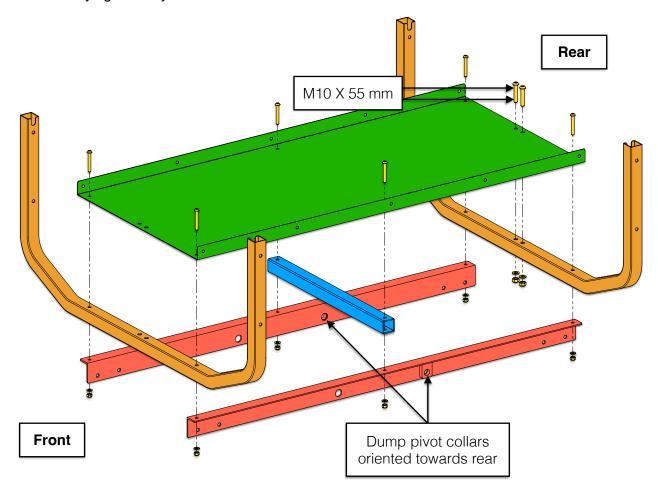
2x	M10 X 55 mm Button Head Screw	1x	Left Lower Beam	
6x	M8 X 60 mm Button Head Screw	1x	Right Lower Beam	
2x	M10 Flat Washer	2x	Support Rib	
6x	M8 Flat Washer	1x	Cross Beam	
2x	M10 Lock Nut	1x	Bed Panel	
6x	M8 Lock Nut			



Use twelve (12) M8 X 60 mm button head screws, twelve (12) M8 flat washers, and twelve (12) M8 lock nuts to assemble the bed panel, support ribs, and lower beams together.

Use two (2) M10 X 55 mm button head screws, two (2) M10 flat washers, and two (2) M10 lock nuts in the two centre holes at the rear of the bed panel where noted.

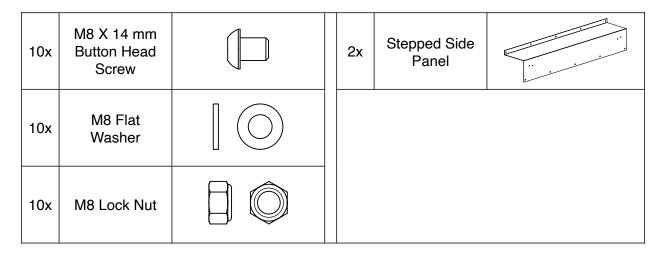
Do not fully tighten any of the hardware.



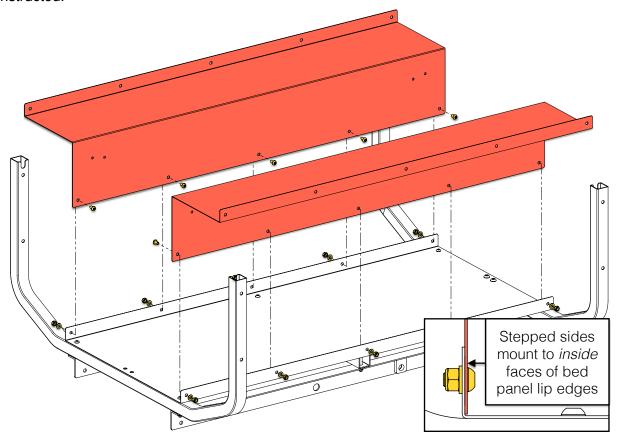


### 2. STEPPED SIDE PANELS

Using the components and hardware listed below, assemble the stepped side panels to the utility box frame.



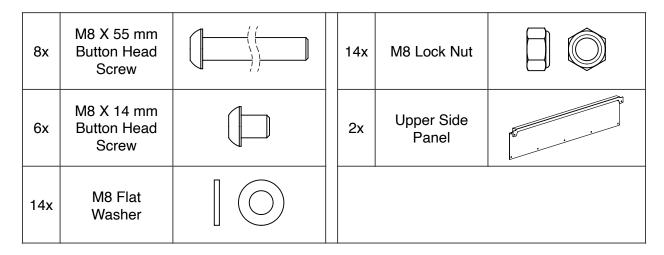
Use five (5) M8 X 14 mm button head screws, five (5) M8 flat washers, and five (5) M8 lock nuts to join each stepped side panel to the bed panel. Do *not* fully tighten any of the hardware until instructed.



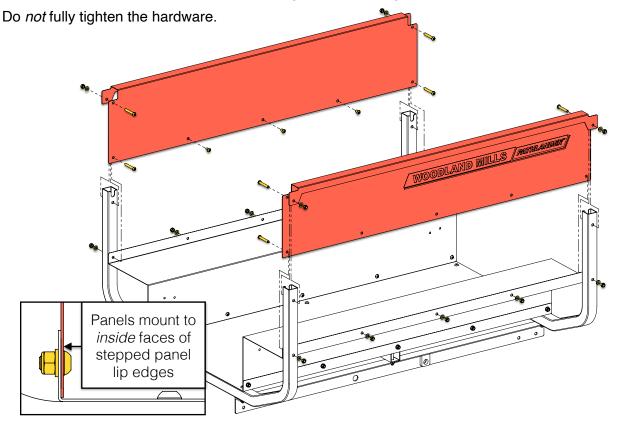


### 3. UPPER SIDE PANELS

Using the components and hardware listed below, assemble the side panels and secure them to the utility box.



Use four (4) M8 X 55 mm button head screws, four (4) M8 flat washers, and four (4) M8 lock nuts in the corners of each panel. Use three (3) M8 X 14 mm button head screws, three (3) M8 flat washers, and three (3) M8 lock nuts along the bottom edge of each panel.



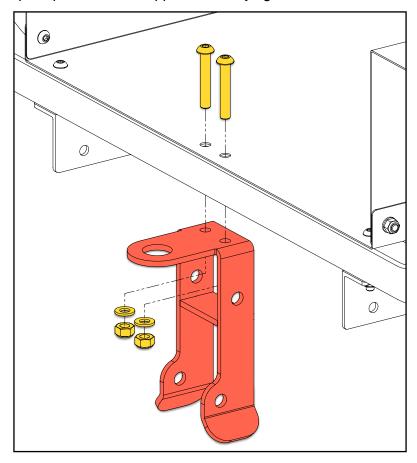


### 4. PICKUP

Using the components and hardware listed below, assemble the pickup to the bed frame.

2x	M10 X 60 mm Button Head Screw	1x	Pickup	
2x	M10 Flat Washer			
2x	M10 Lock Nut			

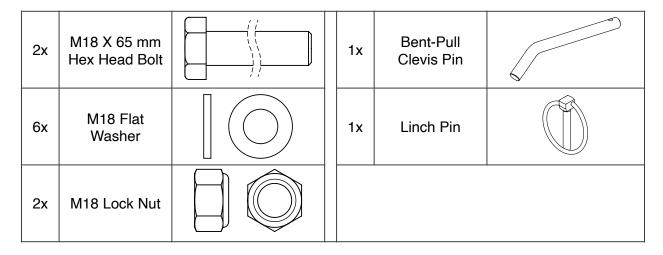
Use two (2) M10 X 60 mm button head screws, two (2) M10 flat washers, and two (2) M10 lock nuts to secure the pickup to the front support rib. Fully tighten the hardware.



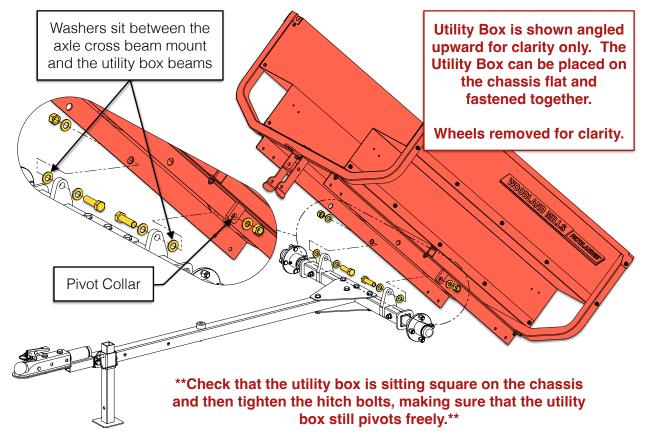


### 5. UTILITY BOX-TO-CHASSIS

Using the components and hardware listed below, assemble the utility box to the chassis.



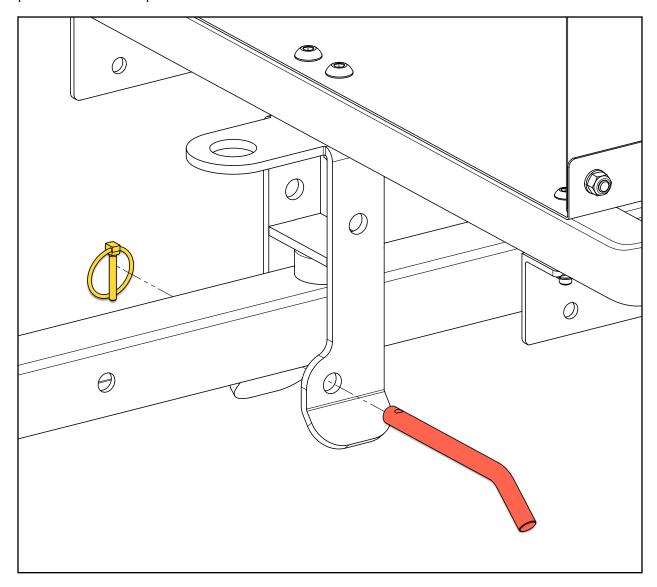
Use two (2) M18 X 65 mm hex head bolts, six (6) M18 flat washers, and two (2) M18 lock nuts to secure the utility box to the chassis. Pass the bolts through the pivot collars on the utility box rails and through the holes in the axle cross beam.



\*\*Fully tighten the hardware from all previous steps\*\*



Once all the hardware is tight and the utility box is down with the pickup resting on the rubber bumper, slide the bent-pull clevis pin through one of the bottom pickup holes and secure it in place with the linch pin.



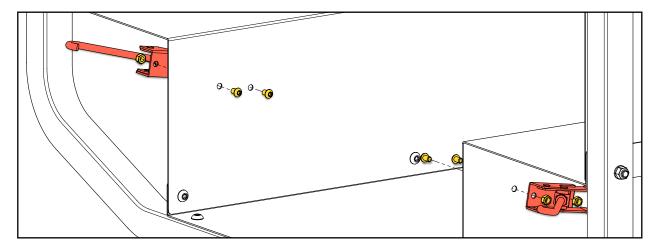


### 6. TAILGATES

Using the components and hardware listed below, assemble the tailgates to the utility box.

8x	M6 X 12 mm Button Head Screw	4x	Hook Latch	
8x	M6 Lock Nut	2x	Tailgate Assembly	

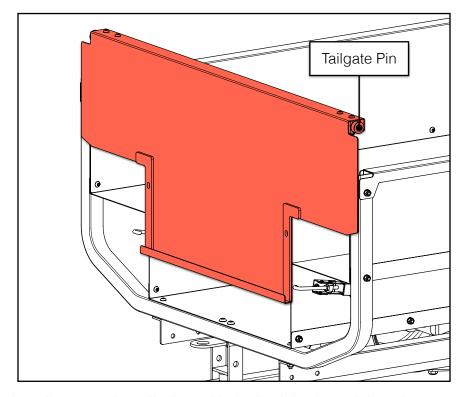
Use two (2) M6 X 12 mm button head screws and two (2) M6 lock nuts to secure each of the four (4) hook latches to the stepped side panels as shown. There are two (2) hook latches at each end of the utility box.



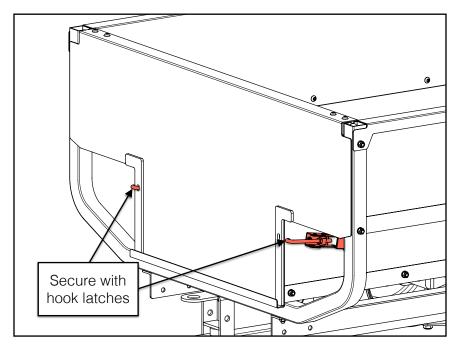
Before installing the tailgate assembly on the utility box, verify that the four (4) button head screws along the top the tailgate assembly are fully tightened before installation.



Slide the tailgates down so that the tailgate pins nest into the slots at the top of the support ribs.



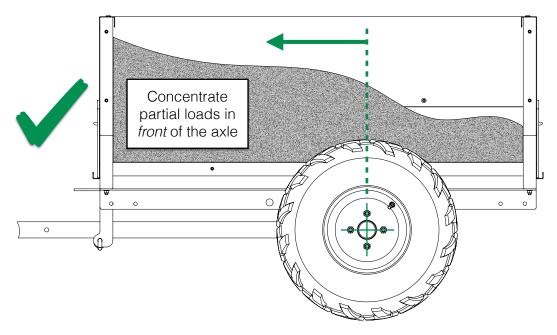
Then secure the tailgates to the utility box with the hook latches. Adjust the engagement of the hook latches using the jam nut on the latch.



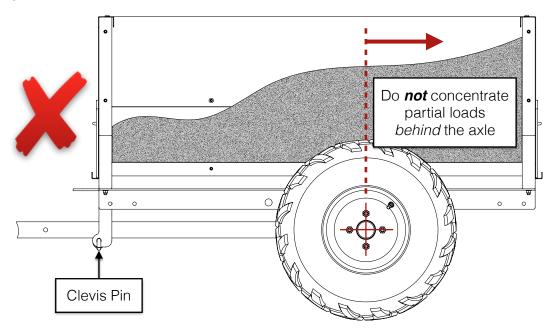


### **OPERATION**

It is critical when *partially* loading the utility box with loose fill (e.g. gravel, sand, topsoil, etc.) that the bulk of the load sits level or in *front* of the axle.



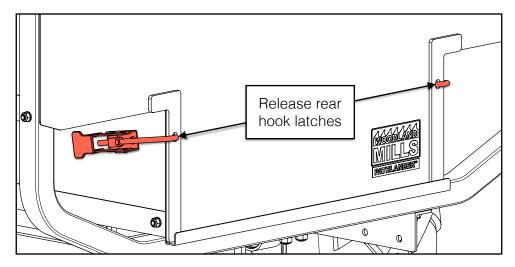
If the fill in a partially loaded utility box is concentrated *behind* the axle (as shown below), there is a significant risk of injury to the operator where the utility box could flip up suddenly without warning once the clevis pin is removed from the pickup. *Never* fill the utility box in this manner.



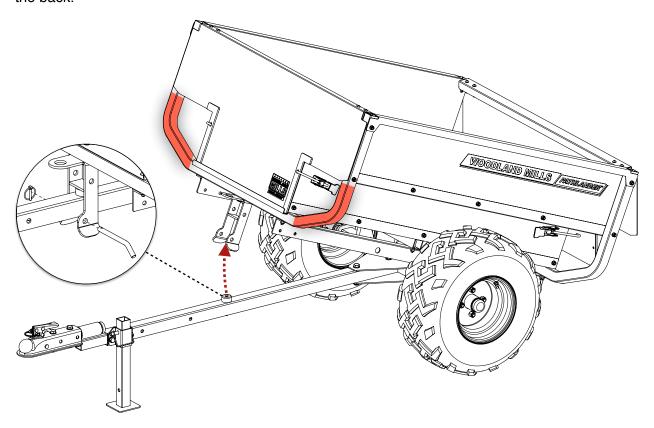
\*\*Side panels have been removed from views for clarity.\*\*



When dumping a load from the utility box, first release the two hook latches from the rear tailgate. The tailgate can be either removed entirely or left to pivot on its pins—the tailgate will open at the bottom as the utility box is angled upward.



Next, remove the linch pin and the clevis pin from the pickup. Then, while gripping either side of the front support rib (as highlighted below), slowly ease the utility box up until the load slides out the back.

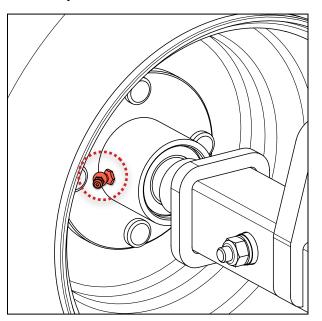


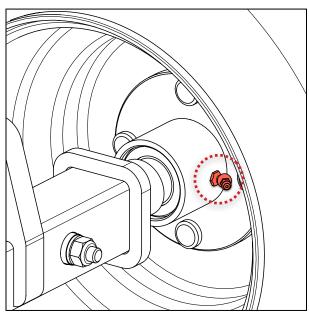


#### **MAINTENANCE**

#### **GREASE POINTS**

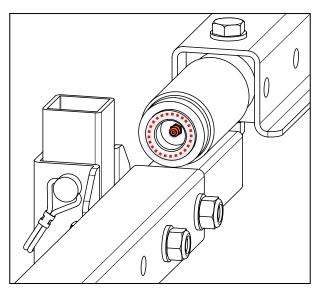
The Pathlander has three (3) Zerk fitting grease points: one (1) on each wheel hub (2 total) and one (1) on the rotating hitch. Check each grease point prior to use and add grease as necessary.





**LEFT WHEEL HUB** 

**RIGHT WHEEL HUB** 

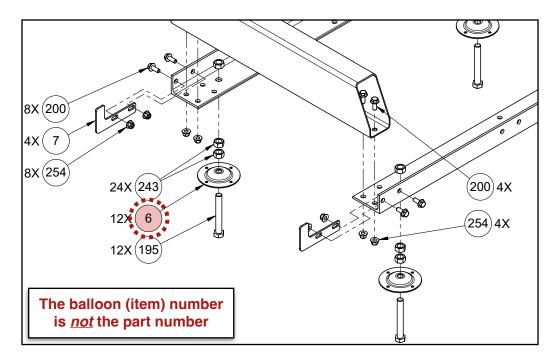


**ROTATING HITCH** 

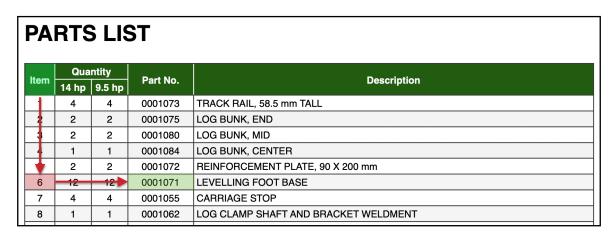


#### REPLACEMENT PARTS ORDERING

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



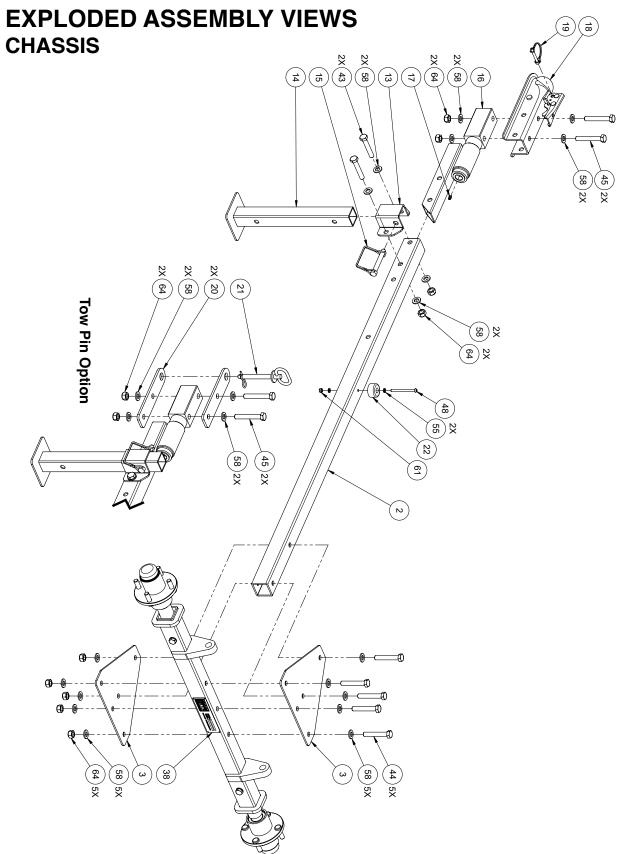
Next, turn to the *Parts List* section and locate the balloon number in the "Item" column:



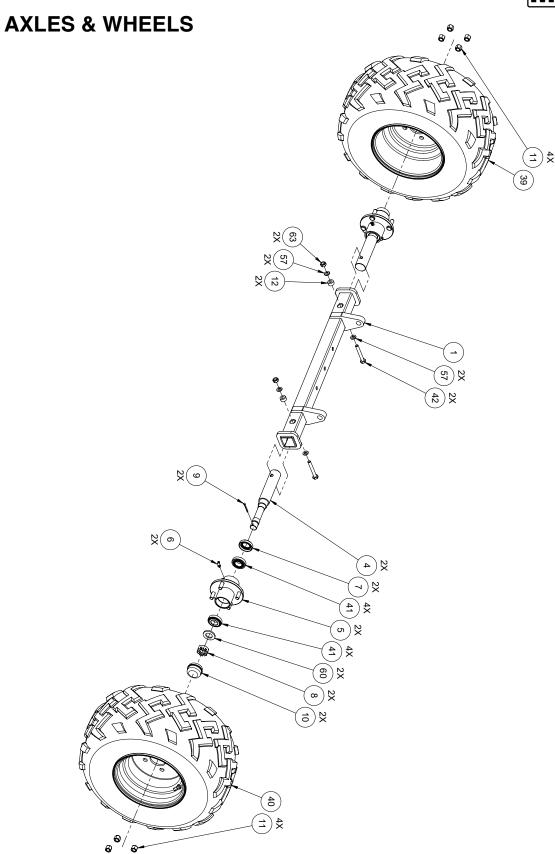
Record the part number (e.g. 0001071, HHB-MBM080FCJ, etc.) from the "Part No." column.

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.



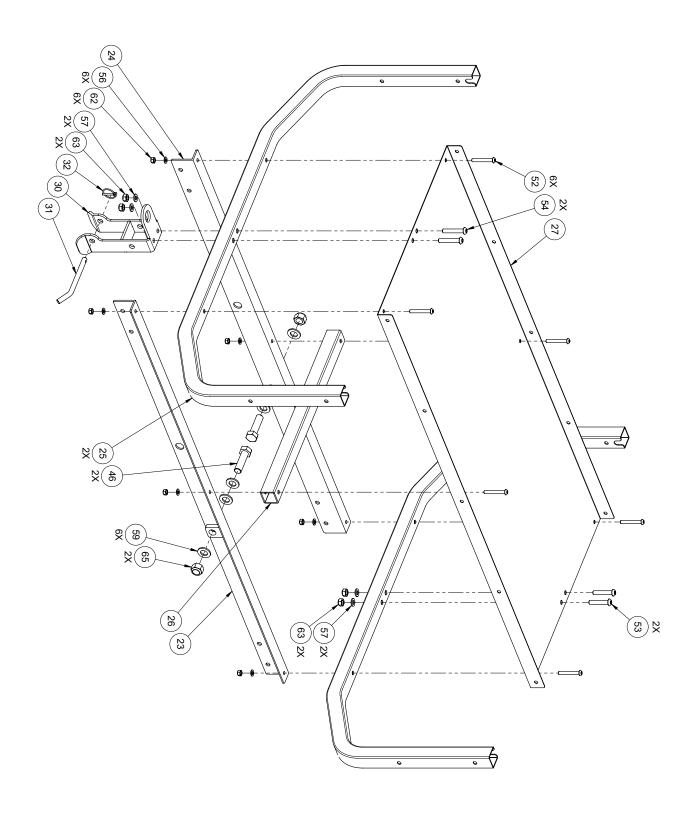








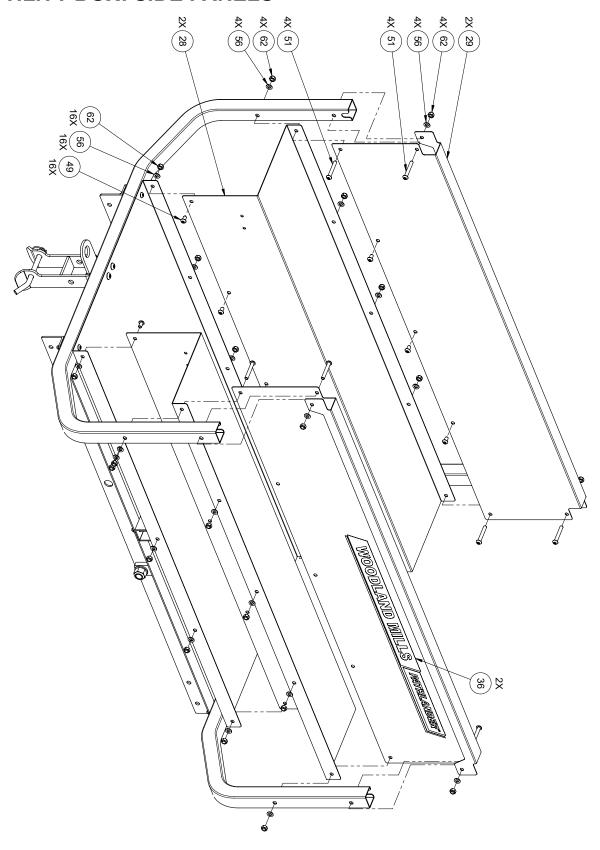
## **UTILITY BOX: BED**





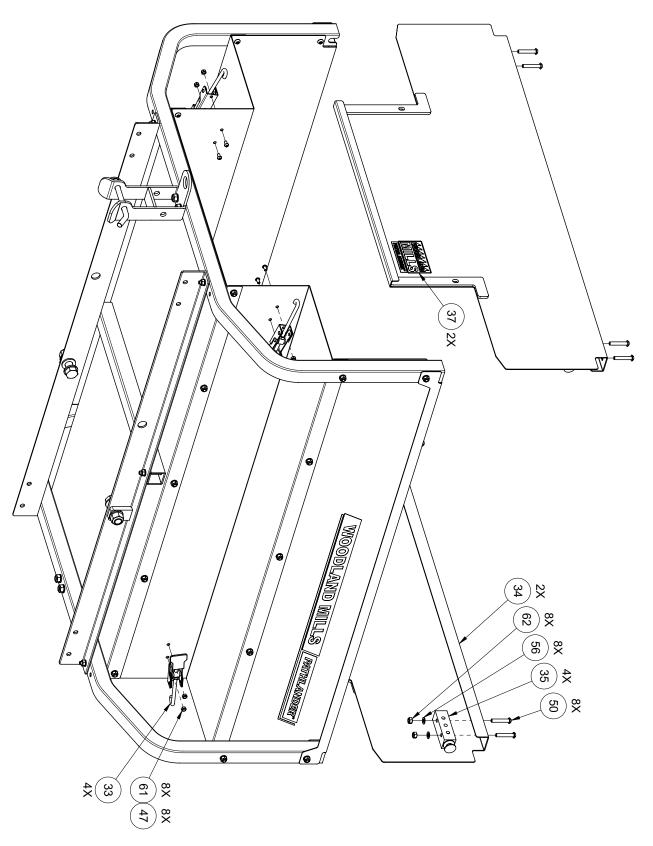
16-Jun-2023

## **UTILITY BOX: SIDE PANELS**





## **UTILITY BOX: TAILGATES**





# **PARTS LIST**

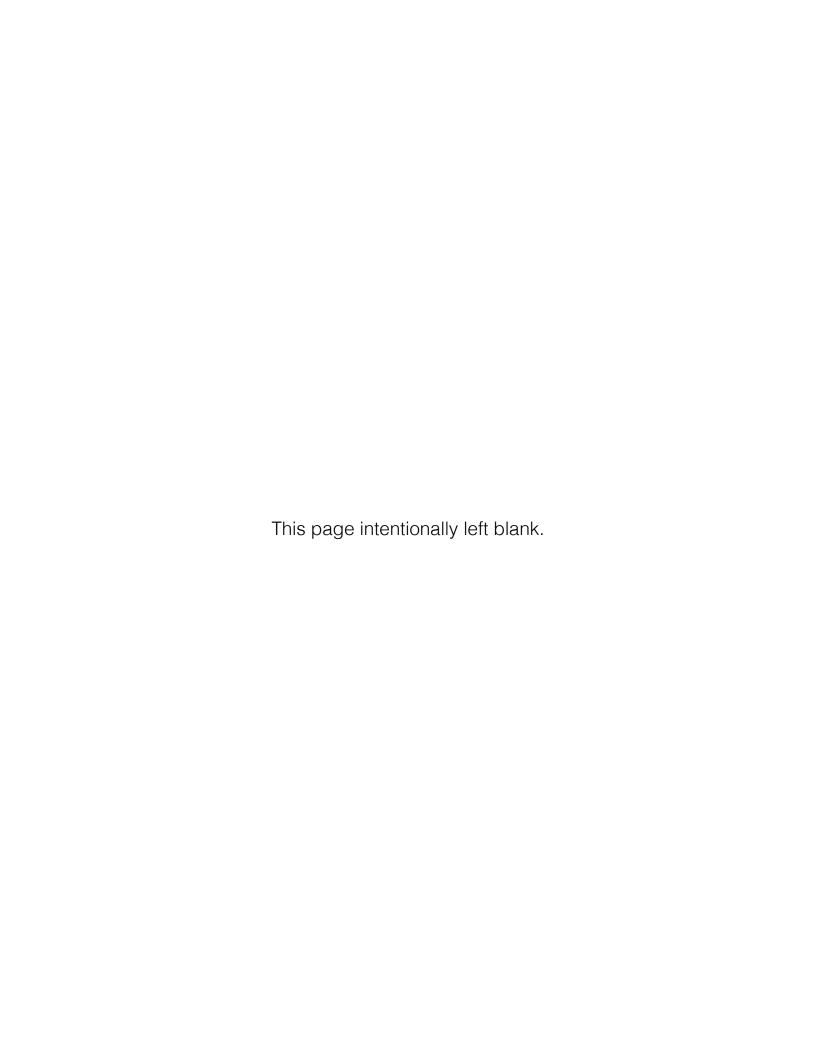
Item	Qty	Part No.	Description
1	1	0009229	AXLE CROSS BEAM
2	1	0009121	DRAW BAR
3	2	0009204	CHASSIS GUSSET
4	2	0007701	AXLE, LOGLANDER 28
5	2	0002283	WHEEL HUB, 4-BOLT, 4 in [101.6 mm] BC, M12 X 1.5 LUGS
6	2	0004909	GREASE FITTING, 45° ELBOW, M6 X 1 TAPERED THD
7	2	0004762	ROTARY SHAFT SEAL, SPRING-LOADED, WIPER LIP, 30 mm SHAFT, 50 mm OD
8	2	0006093	LOCK NUT, SLOTTED, M24 X 1.5, 18 mm THK
9	2	0004758	COTTER PIN, 4 mm DIA, 32 mm LG
10	2	0002285	WHEEL HUB DUST COVER, 4-BOLT, M12 LUGS
11	8	0006202	LUG NUT, M12 X 1.5
12	2	0002699	SPACER, 11 ID X 21 OD X 11 mm LG
13	1	0009375	SUPPORT LEG HOLDER
14	1	0009376	SUPPORT LEG
15	1	0004704	LOCKING PIN, SQUARE, 12 mm DIA, 70 mm USABLE LG, 85 mm LG
16	1	0009198	ROTATING HITCH MOUNT
17	1	0004707	GREASE FITTING, STRAIGHT, M6 X 1 TAPERED THD
18	1	0001381	HITCH BALL COUPLER, 2 in [50.8 mm] BALL, NORTH AMERICA
19	1	0004728	LOCKING PIN, ROUND, 1/4 in DIA, 1-3/8 in USABLE LG, 2 in LG
20	2	0009011	TOW PIN RECEIVER PLATE
21	1	0009832	HANDLED CLEVIS PIN, 12.5mm DIA, 90mm USEABLE LG
22	1	0008139	BUMPER, UNTHREADED, 1/4 in [6 mm], 1-1/2 in [38 mm] OD, 3/4 in [19 mm] THK
23	1	0009232	LOWER BEAM, LEFT, UTILITY BOX
24	1	0009230	LOWER BEAM, RIGHT, UTILITY BOX
25	2	0009235	SUPPORT RIB, UTILITY BOX
26	1	0009233	CROSS BEAM, UTILITY BOX
27	1	0009234	BED PANEL, UTILITY BOX
28	2	0009236	STEPPED SIDE PANEL, UTILITY BOX
29	2	0009237	SIDE PANEL, UTILITY BOX
30	1	0009239	PICKUP, UTILITY BOX
31	1	0002400	BENT-PULL CLEVIS PIN, 12 mm DIA, 105 mm USEABLE LG
32	1	0004720	LINCH PIN, 4.5 mm DIA, 25 mm USEABLE LG, 32 mm LG
33	4	0002338	HOOK LATCH, 8 mm HOOK
34	2	0004386	TAILGATE, UTILITY BOX
35	4	0004193	TAILGATE PIN, UTILITY BOX
36	2	0009606	LABEL, UTILITY BOX
37	2	0009691	LABEL, WOODLAND MILLS, UTILITY BOX
38	1	0008321	SERIAL NUMBER LABEL, TRAILERS, WIDE
39	1	22X11-10R	WHEEL, 22X11-10, RIGHT-HAND
40	1	22X11-10L	WHEEL, 22X11-10, LEFT-HAND
41	4	L44643	ROLLER BEARING, TAPERED, 1 in SFT, 1.98 in HSG, 0.58 in WD
42	2	HHB-MBM130PCJ	HEX HEAD BOLT, CLS 8.8, M10 X 1.5, 75 mm LG, 26 mm LG THD
43	2	HHB-MBR125PCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 70 mm LG, 30 mm LG THD
44	5	HHB-MBR130PCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 75 mm LG, 30 mm LG THD
45	2	HHB-MBR135PCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 80 mm LG, 30 mm LG THD
46	2	HHB-MCC120PCJ	HEX HEAD BOLT, CLS 8.8, M18 X 2.5, 65 mm LG, 37 mm LG THD



Item	Qty	Part No.	Description		
47	8	BHS-MBE063FCM	BUTTON HEAD SCREW, CLS 10.,9, M6 X 1, 12 mm LG, FULL		
48	1	BHS-MBE130FCM	BUTTON HEAD SCREW, CLS 10.9, M6 X 1, 75 mm LG, FULL		
49	16	BHS-MBJ067FCM	BUTTON HEAD SCREW, CLS 10.9, M8 X 1.25, 14 mm LG, FULL		
50	8	BHS-MBJ100FCM	BUTTON HEAD SCREW, CLS 10.9, M8 X 1.25, 45 mm LG, FULL		
51	8	BHS-MBJ110FCM	BUTTON HEAD SCREW, CLS 10.9, M8 X 1.25, 55 mm LG, FULL		
52	6	BHS-MBJ115FCM	BUTTON HEAD SCREW, CLS 10.9, M8 X 1.25, 60 mm LG, FULL		
53	2	BHS-MBM110PCM	BUTTON HEAD SCREW, CLS 10.9, M10 X 1.5, 55 mm LG, 32 mm LG THD		
54	2	BHS-MBM115PCM	BUTTON HEAD SCREW, CLS 10.9, M10 X 1.5, 60 mm LG, 32 mm LG THD		
55	2	FTW-MBE000AJ	FLAT WASHER, M6		
56	38	FTW-MBJ000AJ	FLAT WASHER, M8		
57	8	FTW-MBM000AJ	FLAT WASHER, M10		
58	18	FTW-MBR000AJ	FLAT WASHER, M12		
59	6	FTW-MCC000AJ	FLAT WASHER, M18		
60	2	FTW-MCM000AJ	FLAT WASHER, M24		
61	9	HLN-MBECH	LOCK NUT, CLS 8, M6 X 1		
62	38	HLN-MBJCH	LOCK NUT, CLS 8, M8 X 1.25		
63	6	HLN-MBMCH	LOCK NUT, CLS 8, M10 X 1.5		
64	9	HLN-MBRCH	LOCK NUT, CLS 8, M12 X 1.75		
65	2	HLN-MCCCH	LOCK NUT, CLS 8, M18 X 2.5		



NOTES			





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