

IRON BALTIC

ARENA LEVELLER

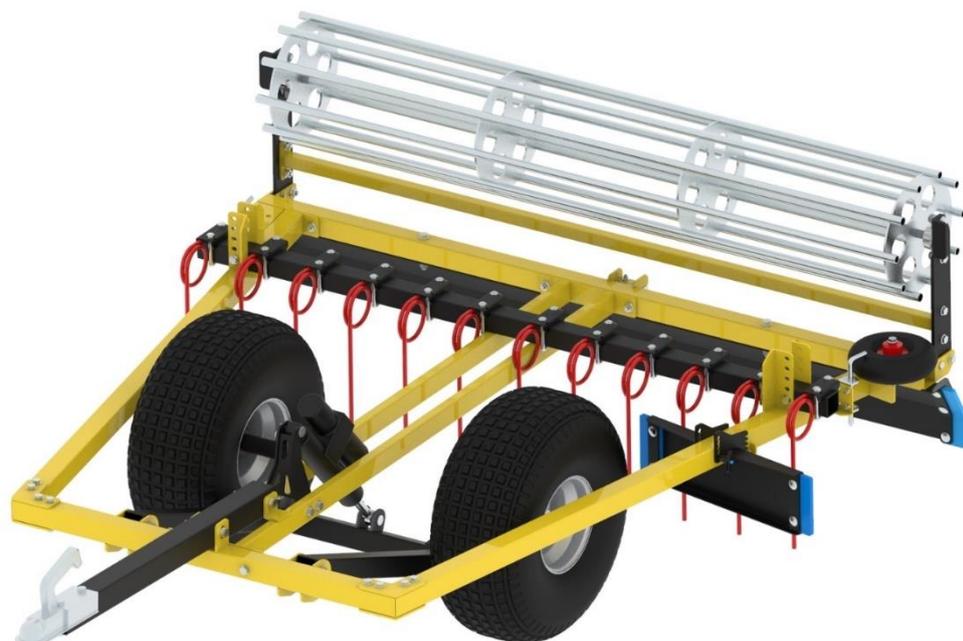
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USER MANUAL



code.ironbaltic.com/u/Rtstv3b3

Code 88.1000

Version 19012024



Keep this manual for future reference!

If you need any spare parts, please send this packaging data to your local dealer or to Iron Baltic
sales@ironbaltic.com

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EC DECLARATION OF CONFORMITY

Manufactured by: Iron Baltic OÜ
Address: Põldmäe tee 1, Vatsla 76915
Product: **Arena leveller**
Model: **88.1000**

Hereby we confirm that this product is in conformity with the requirements of Directive **2006/42/EC**, applicable to the safety and functionality of machinery, regarding the replaceable equipment and it is in compliance with the standard **EN12100** Safety of machinery – General principles for design – Risk assessment and risk reduction.

In witness whereof CE marking is attached to the product.

Place and date of issue of the declaration: 15.06.2021



.....
Tiit Norak
Member of the Board

INTRODUCTION

Thank you for choosing Iron Baltic product. This manual contains specifications for the arena leveller as well as instructions for product assembly, safe operation and maintenance. Unnecessary use of the arena leveller can result economic damage and personal injury, so it is very important that the person who is using the product read and use this manual in accordance with the requirements. Any misuse of the product will release the manufacturer from liability for any damage or expense incurred.

NOTE: Photos and drawings in this manual may not necessarily depict the actual models of arena leveller. They are merely given as a frame of reference and are based on the latest available information at the time of publication.



This symbol is used throughout the manual and on warning signs in order to warn users of the potential for serious injury. Before using the vehicle and arena leveller, carefully read the safety instructions and make sure that you have understood them. Follow all instructions and ensure that everyone who uses the equipment follows them!

Keep this manual for future reference.

Based on the specifications for your model, please check that you have received all of the parts for your particular set

SAFETY INSTRUCTIONS

Most accidents occur due to negligence or carelessness. Avoid accidents and follow the safety instructions given below.

The ATV together with the arena leveller hitched to it form a long working machine, which is not easy to manoeuvre; therefore, operating in small and narrow areas can be a complicated task.

TRAINING

- Read thoroughly the safety instructions and terms of use.
- Never allow children to operate the vehicle or the arena leveller. Never allow adult persons to operate the vehicle or the arena leveller if they have not received the proper training
- Neither the vehicle nor the arena leveller can be used while drunk or under the influence of drugs that affect perception and/or reaction.
- Do not allow bystanders, children or animals into the work zone.



PROHIBITED ACTIONS

- Never operate the arena leveller on overly steep slopes.
- Never operate the arena leveller without all the protective parts properly installed.
- Do not operate the arena leveller before you have carefully read the whole operation manual.
- Never drive faster than 20km/h, or what the vehicle manufacturer recommends (the lower speed must be observed).
- Never carry any passenger on the arena leveller.
- It is forbidden to mount attachments to arena leveller that are not approved by the manufacturer

MANDATORY ACTIONS

- Follow all the instructions of the ATV manufacturer.
- Always use proper protective equipment (helmet etc.) when using the vehicle.
- Make sure that bystanders are moved to a safe distance when operating the arena leveller.
- Make sure that all of the safety stickers are in good condition. Replace damaged stickers as required.
- Reduce the speed of the ATV when working on a hillside or uneven terrain.
- Be careful when braking.
- The safe road-steadiness of the vehicle must always be ensured by using the correct accessories for the task in hand (chains, counterbalances, etc).
- Always check that all components are properly installed.
- Check and tighten the bolts after the first working hour and then after every ten working hours.



IF SOMETHING HAPPENS DURING THE WORK THAT COULD DAMAGE THE PRODUCT, AN INSPECTION OF THE DEVICE MUST BE CARRIED OUT TO IDENTIFY POSSIBLE DAMAGE. DAMAGE (CRACKS IN CONSTRUCTION OR WELDS, DEFORMED PARTS) CAN ENDANGER PROPERTY AND HUMAN HEALTH. THE DEVICE MUST NOT BE USED BEFORE THE DAMAGE IS REMOVED.



MAKE SURE THAT THE TRAILER IS IN PERFECT WORKING CONDITION AND THAT THE TOWING COUPLING HEAD IS PROPERLY ATTACHED TO THE ATV HITCH BALL.

SAFETY LABELS

The safety labels shall be present on your trailer. If any of those labels is absent or gets damaged, contact your dealer in order to install new labels in place of the absent ones before operating the machine.

Meaning of safety labels

	Maximum permitted speed 20 km / h!
	Never carry any passenger on the arena leveller!
	It is forbidden to drive slopes over 15°!
	Make sure that all bystanders are at safe distance while working! Risk of collision! Risk of flying debris.
	The risk of injury to hands! Due to the moving parts of the device, there is a risk of crushing and injuring hands!!
	Read the manual before use!

PRODUCT DESCRIPTION

The Iron Baltic arena leveller is a durable attachment that can be attached to the ATV or UTV. The arena leveller is designed for ATVs and UTVs but can be towed with any other vehicle equipped with a 50 mm hitch ball.

Standard equipment:

- Arena leveller
- Manual height adjuster

Optional extras:

- Electro-hydraulic height adjuster

Product	Arena leveller
Model	88.1000
Dimensions	2350/2900 x 1850x 825 mm
Working width	1850 mm
Weight	168 kg
Tires	Off-road 22 x 11 – 8

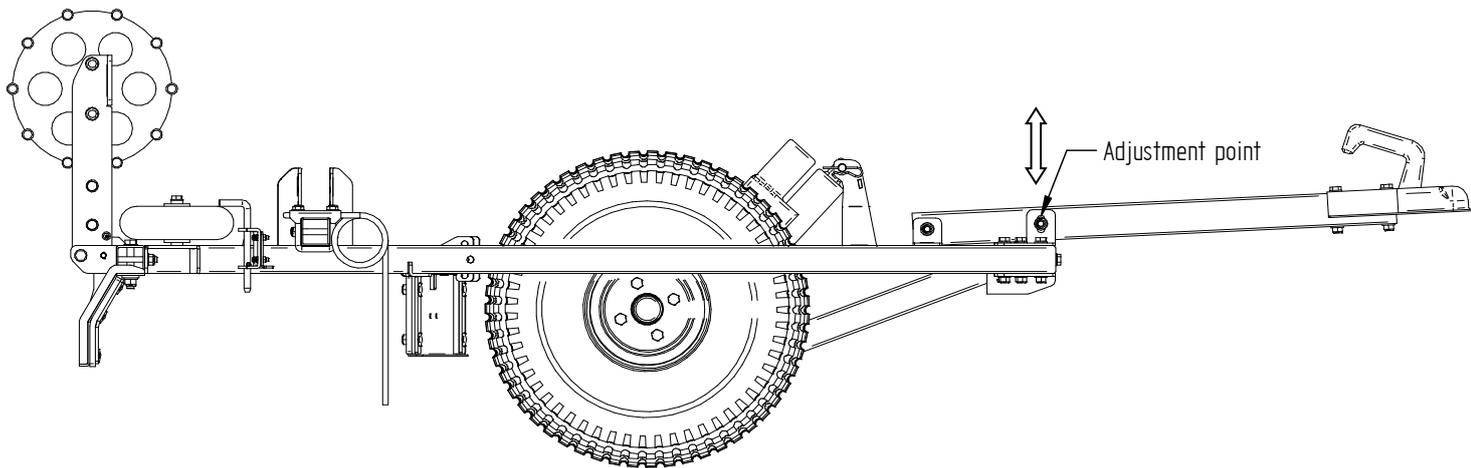
Table 1: Arena leveller technical data

USER GUIDE

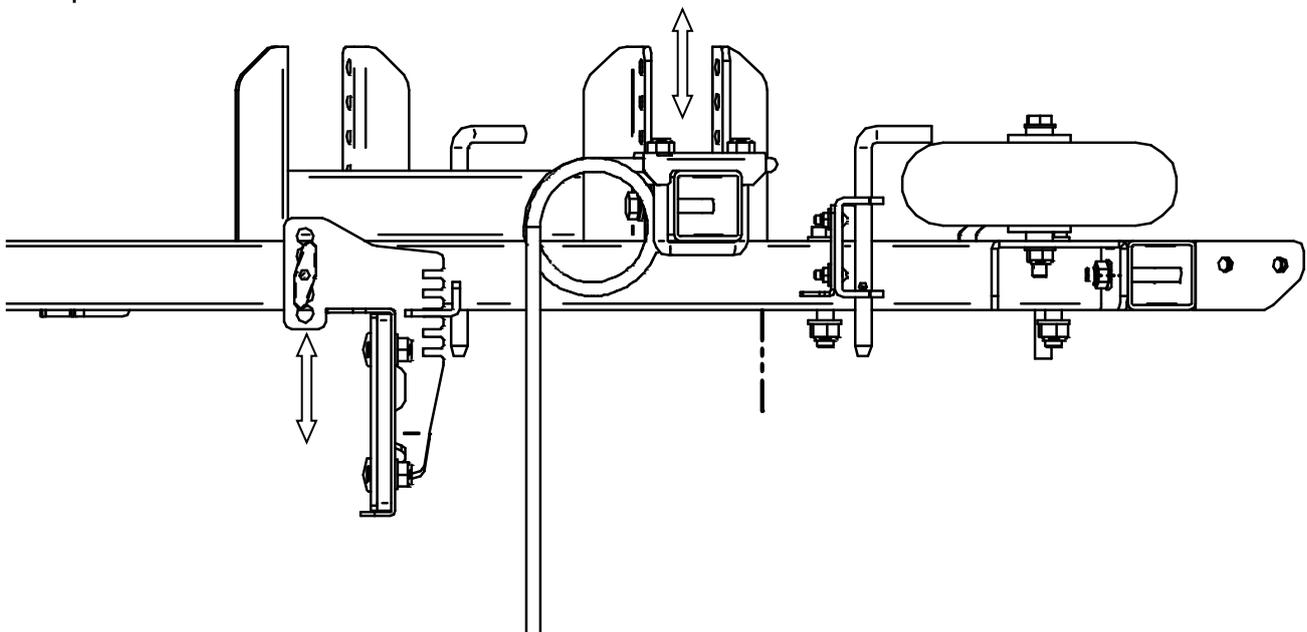
- Read the safety instructions before driving!
- Check tow coupling connection to the tow beam before ride.
- Before ride, check that all removable accessories are secured and locked.
- Before ride, check if the towing coupling is securely connected with tow ball (check the indicator on tow coupling)
- Before ride, check tire condition and pressure (the exact tire pressure is marked on the side of the tire). If needed change the tires. Use only tires specified by the arena leveller manufacturer.
- Before ride, check tension of the wheel bolts.
- The highest speed when transporting is 20km/h, or what the vehicle manufacturer recommends (the lower speed must be observed).
- Before unhooking the arena leveller, lower the arena leveller into working position!

ADJUSTMENT AND WORKING WITH ARENA LEVELLER

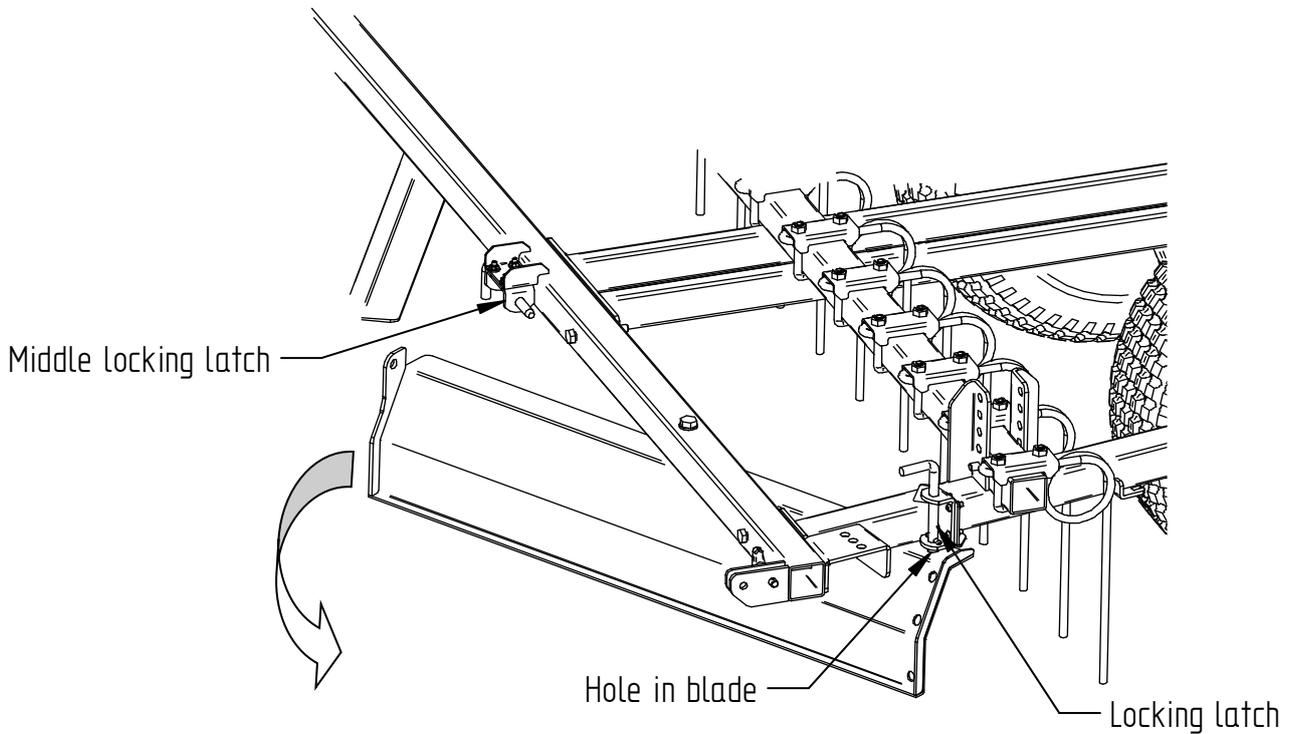
- Before you start working, adjust the working position of the leveller as parallel to the ground as possible. To do so, hook up the leveller to ATV/UTV and then lower the leveller to working position. Release the bolt on the tow beam and adjust the tow beam to suitable position.



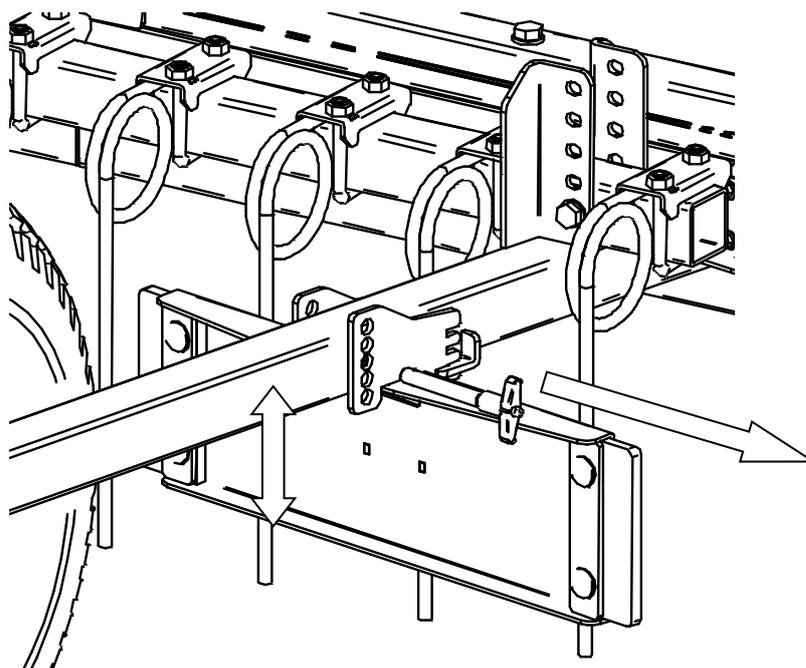
- Adjust the spring tine mounting tube as needed. Height of the tube depends on how deep you want the tines to go into the ground in working position.
- There is 5 adjustment points to side blade. Highest position can be used as a transportation position when there is no need of the side blade.
- Perimeter wheel is intended to work as a guide when working with arena edges and the wheel has a chance to move against the arena wall. Wheel stops the rear blade to go against the edges. NB! Before starting work, make sure the wheel position is correct for specific arena.



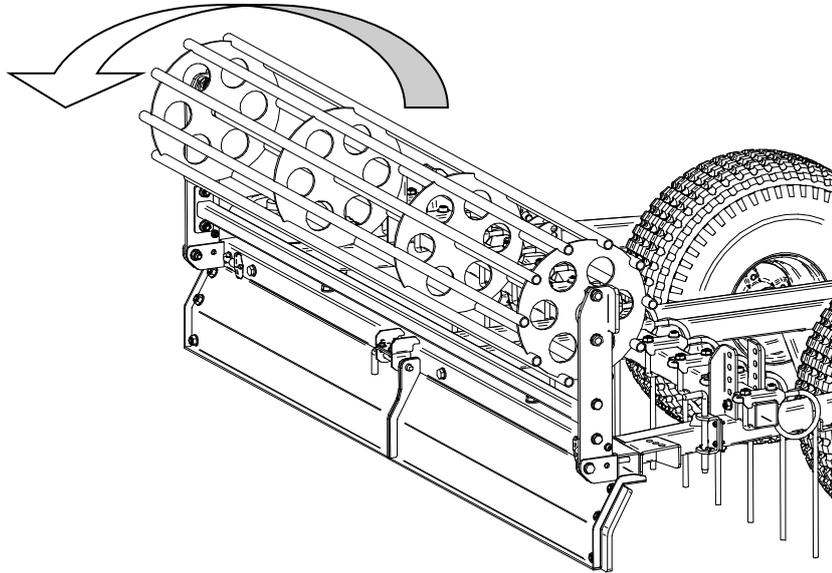
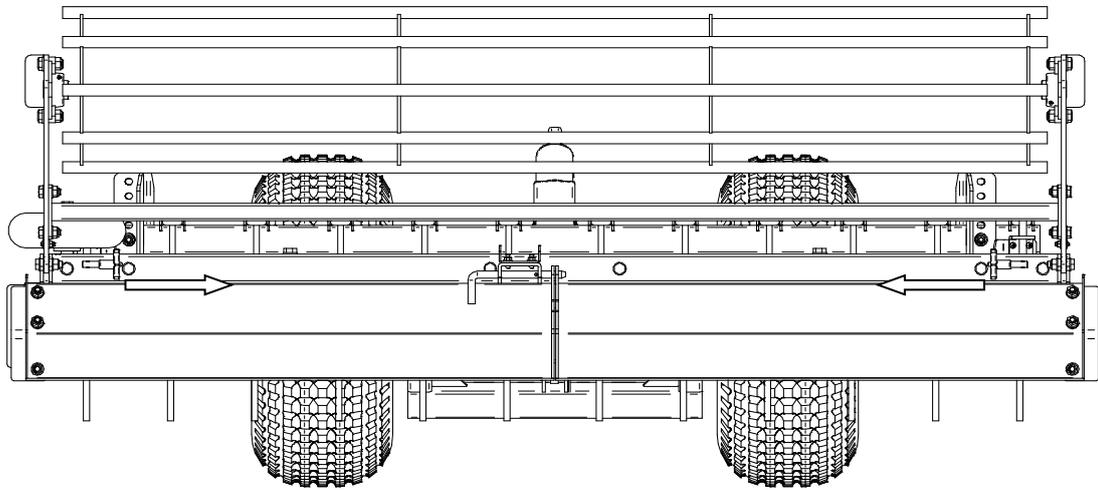
- Positioning the rear blades at the angle lets you transfer material from the edges of the arena to the middle of arena. It is possible to position the blades at an angle independently or together. Pull the middle latch and choose which blade you wish to position at an angle. Release the latch and make sure the remaining blade, left in original position, is locked with latch. When you turn the blade at an angle, there is preset working position for it, which is fixed with side latches. NB! When working with angled blades it is not possible to use finishing roll



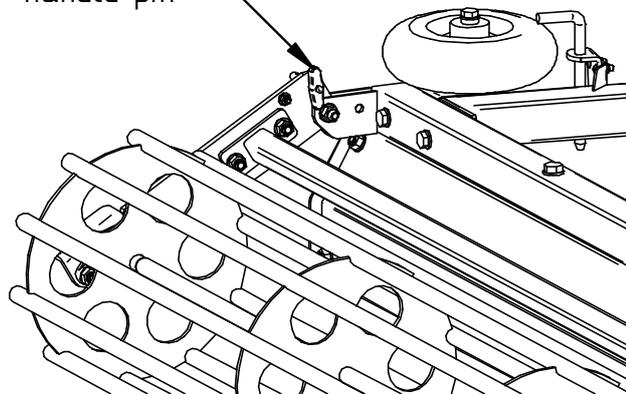
- To adjust the side blade height, remove the pin by pushing the small blue button on the pin and pulling the pin out. Choose desired position of the blade and reinstall the pin.



- To set the finishing roll to working position, remove the T handle pins and lower the roll.
NB! Finishing roll is heavy! Be careful when lowering the roll!
Install the pins to the holes on side of the rolls for safe keeping while working.



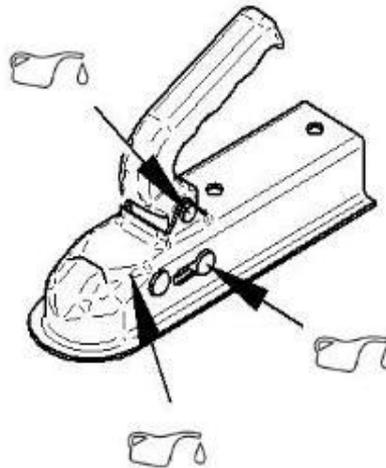
10x20 T-handle pin



MAINTENANCE

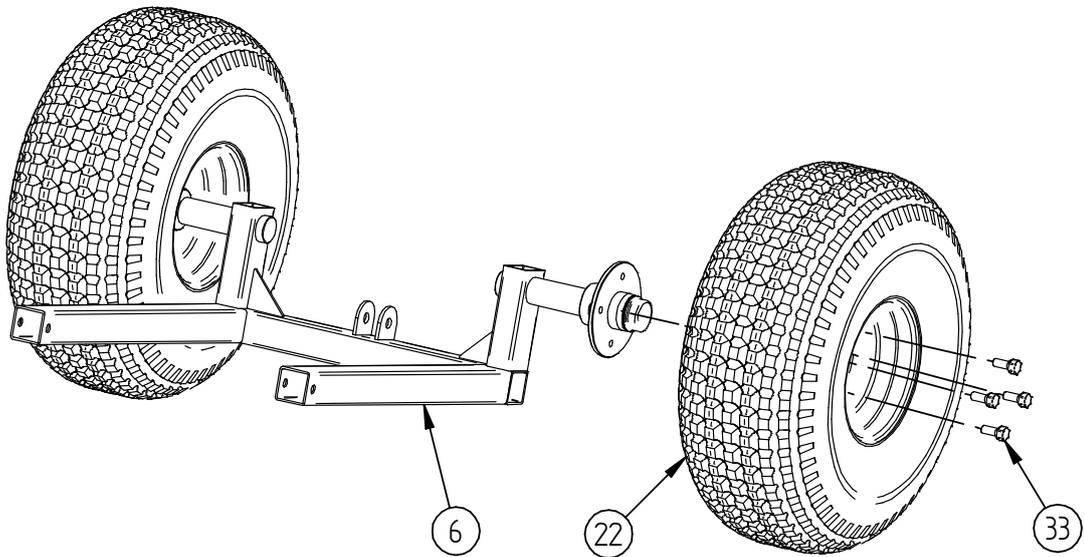
Maintenance activity:	Before and after work	Weekly	Monthly	Seasonally
Clean the arena leveller	•	•	•	•
Tire pressure, wheel bolts, tow coupling connection check	•	•	•	•
Visual inspection of parts fastening	•	•	•	•
Checking the condition of all connecting parts		•	•	•
Inspection of safety labels		•	•	•
Lubricate the tow coupling and swing arms			•	•
Checking the wear rate of metal parts			•	•

- Always wash the arena leveller after use. To remove most of the dirt, use running water. Common car shampoo can be used for washing the arena leveller.
- Only change arena leveller tire on flat and hard surface, by placing jack stand under the vertical frame beam.
- If the tow coupling moves difficultly, add oil to places showed on the diagram or contact manufacturer or licenced reseller.

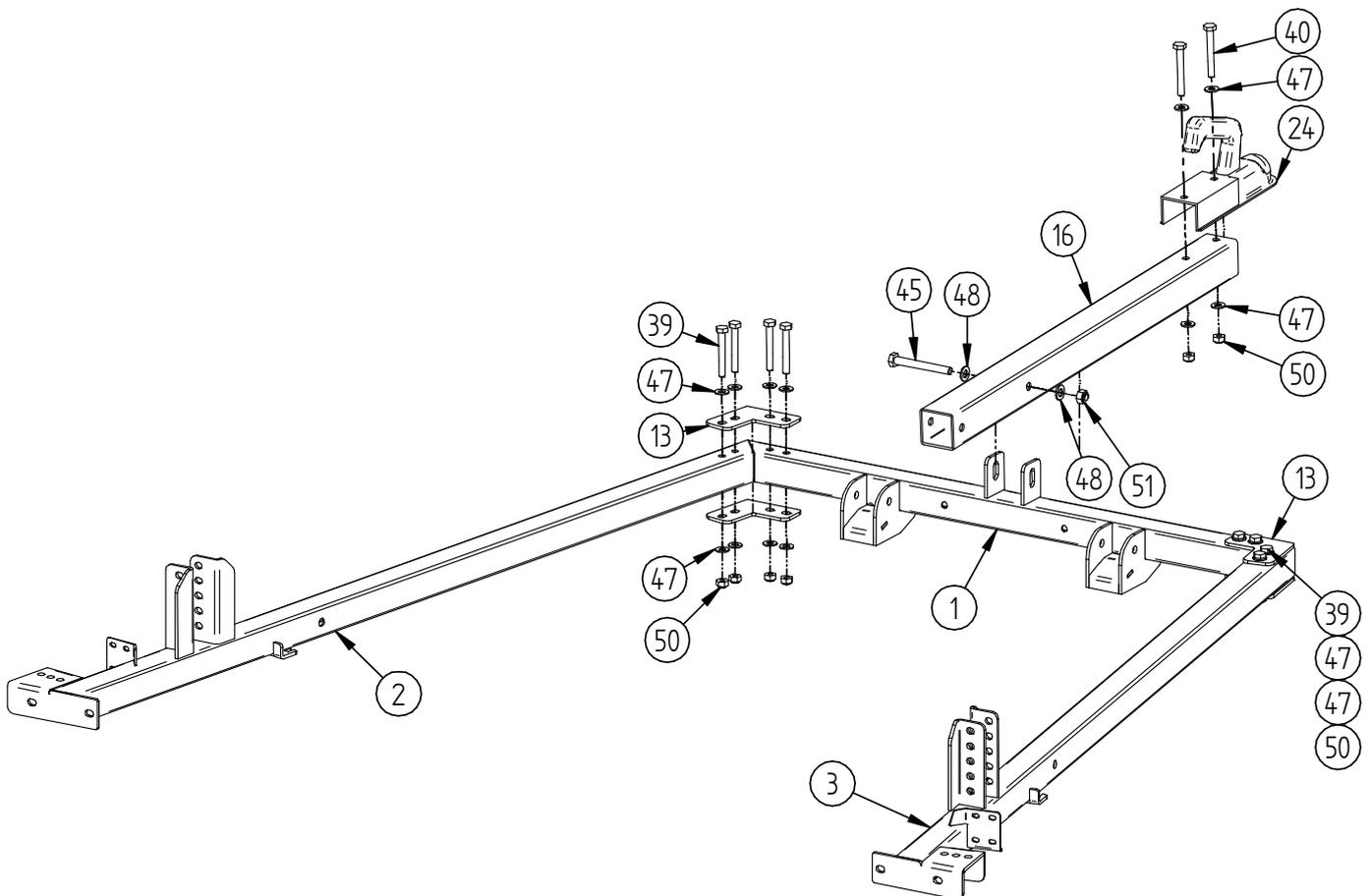


ARENA LEVELLER ASSEMBLING GUIDE

Step 1 Install wheels (Pos.22) to the axle (Pos.6), use wheel bolts (Pos.33).



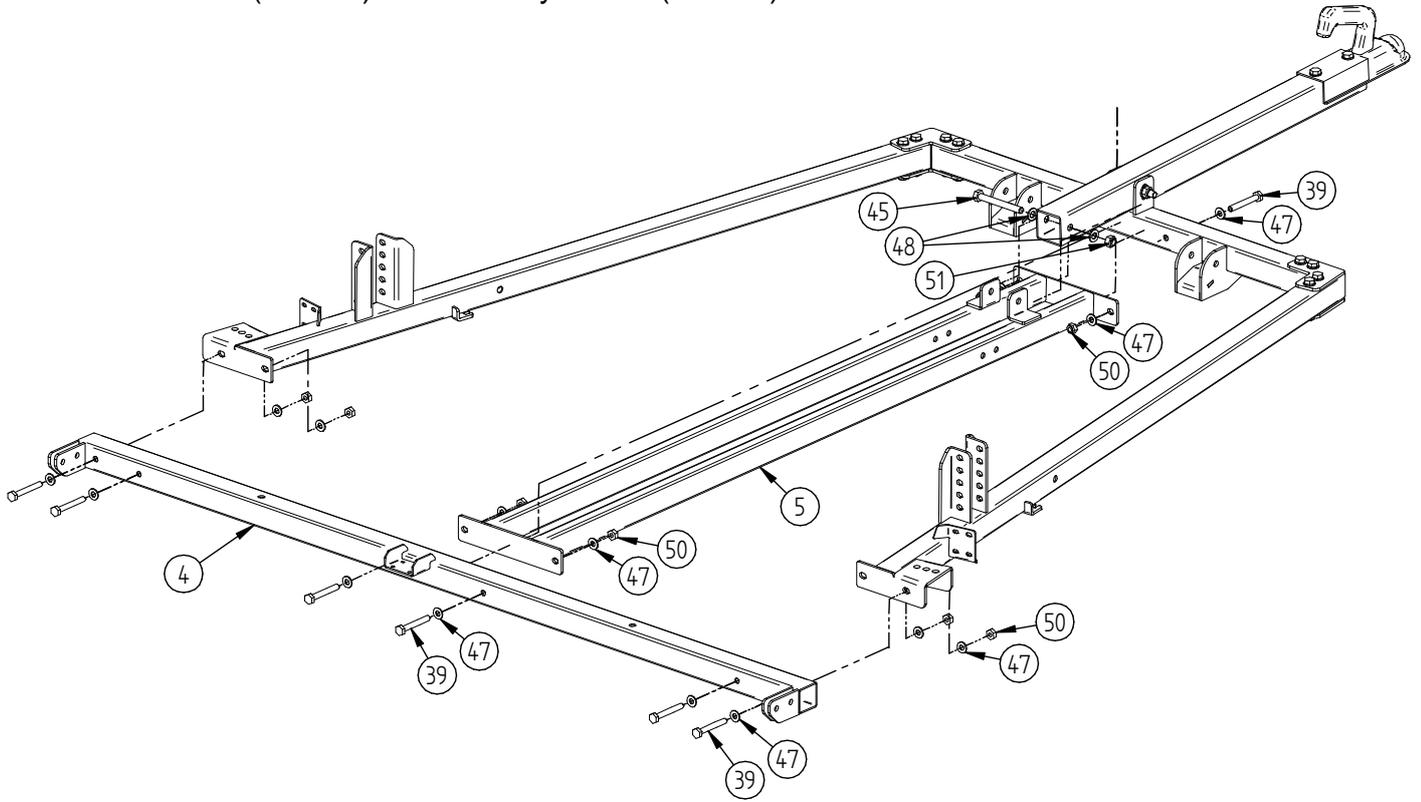
Step 2 Install left side (Pos.2) and right side (Pos.3) to the front part (Pos.1) of the frame, using connecting plates (Pos.13), bolts M10x75 (Pos.39), M10 washers (Pos.47) and M10 Nyloc nuts (Pos.50). Then install tow beam (Pos.16) to the front part (Pos.1) of the frame, use M12x100 bolt (Pos.45), M12 washers (Pos.48) and M12 Nyloc nut (Pos.51). To connect the tow coupling (Pos.24) to the tow beam (Pos.16), use M10x80 bolts (Pos.40), M10 washers (Pos.47) and M10 Nyloc nuts (Pos.50).



Step 3

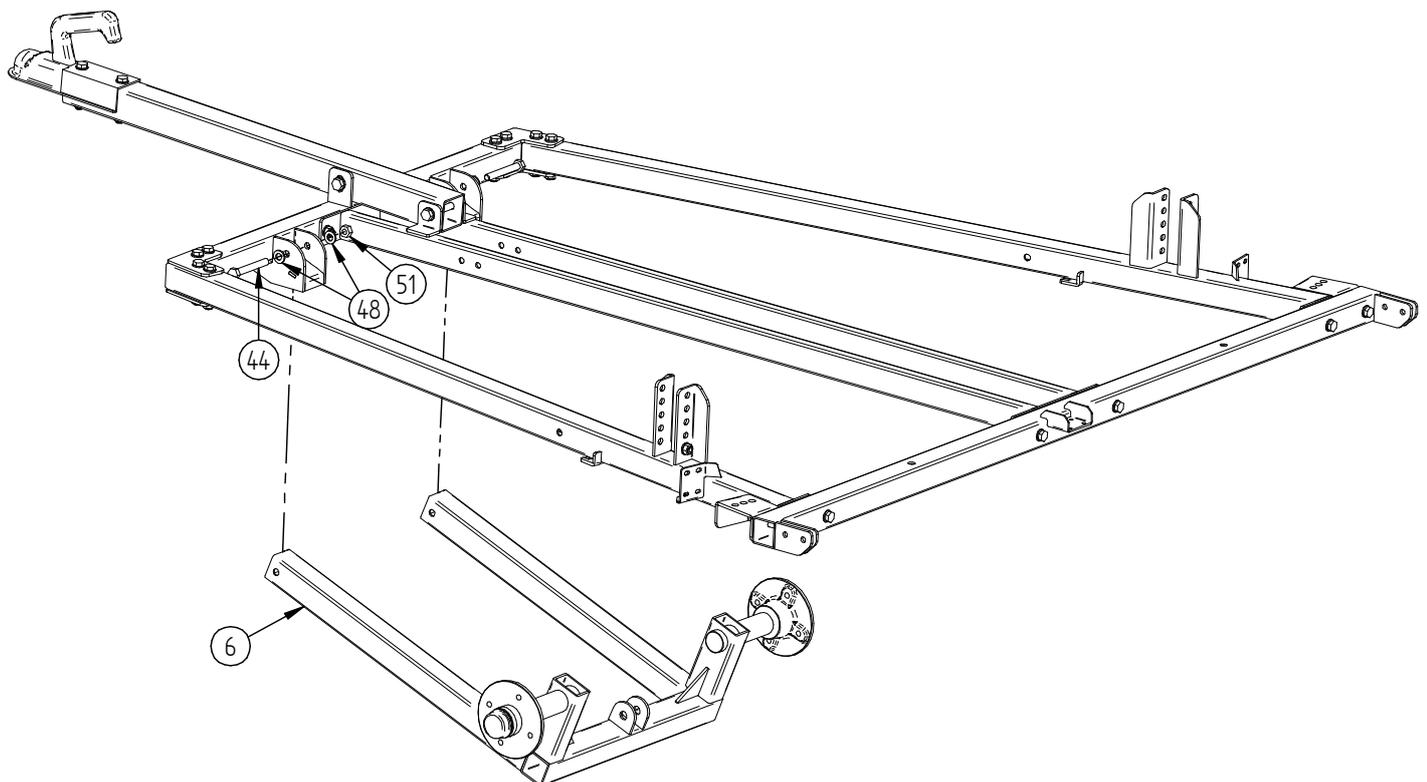
Install middle part (Pos.5) and rear part (Pos.4) to previously assembled frame, use M10x75 bolts (Pos.39), M10 washers (Pos.47) and M10 Nyloc nuts (Pos.50).

Connect tow beam and middle part with M12x100 bolt (Pos.45), M12 washers (Pos.48) and M12 Nyloc nut (Pos.51).



Step 4

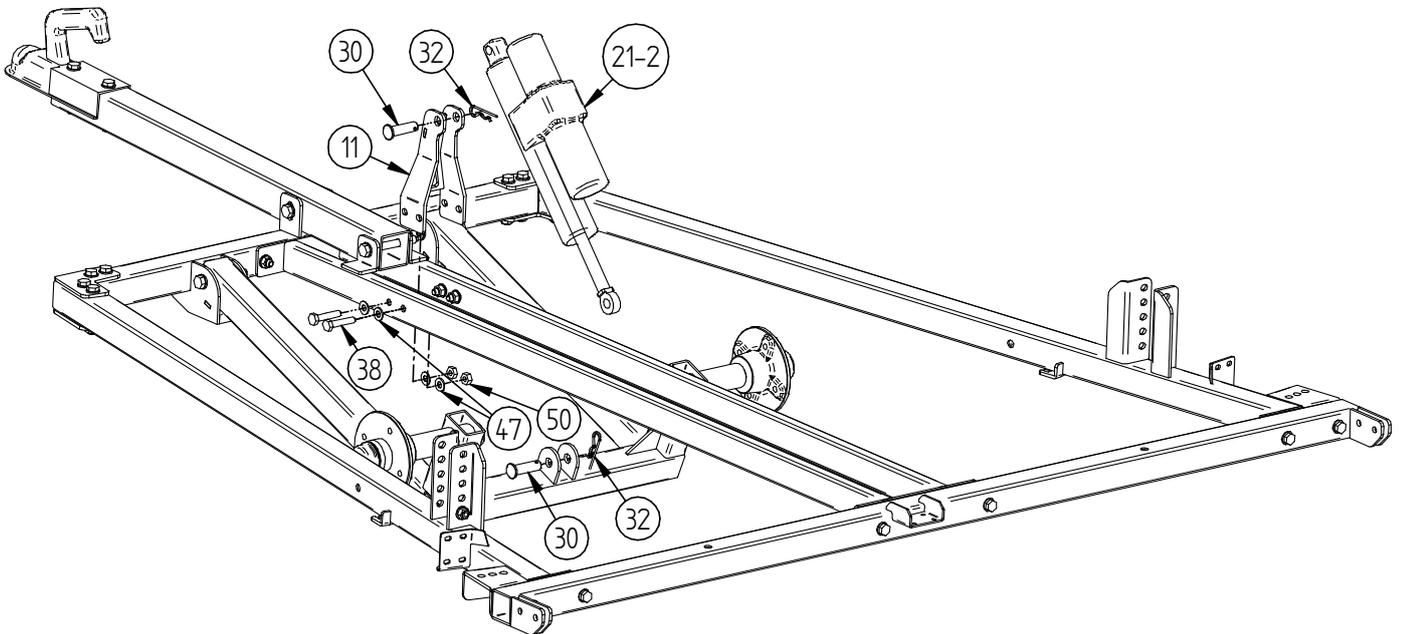
Install axle (Pos.6) to the frame. Use M12x90 bolts (Pos.44), M12 seibe (Pos.48) and M12 Nyloc nuts (Pos.51).



** wheels removed for better visibility*

Step 5

Install height adjuster mount (Pos.11) between middle frame, use M10x50 bolts (Pos.38), M10 washers (Pos.47) and M10 Nyloc nuts (Pos.50). Install height adjuster (Pos.21-1) or optional electro hydraulic cylinder (Pos.21-2), use pins (Pos.30) and cotter pins (Pos.32) to secure the height adjuster.



* *Wheels removed for better visibility*

** *Electro-hydraulic cylinder, shown on the drawing, is optional accessory!*

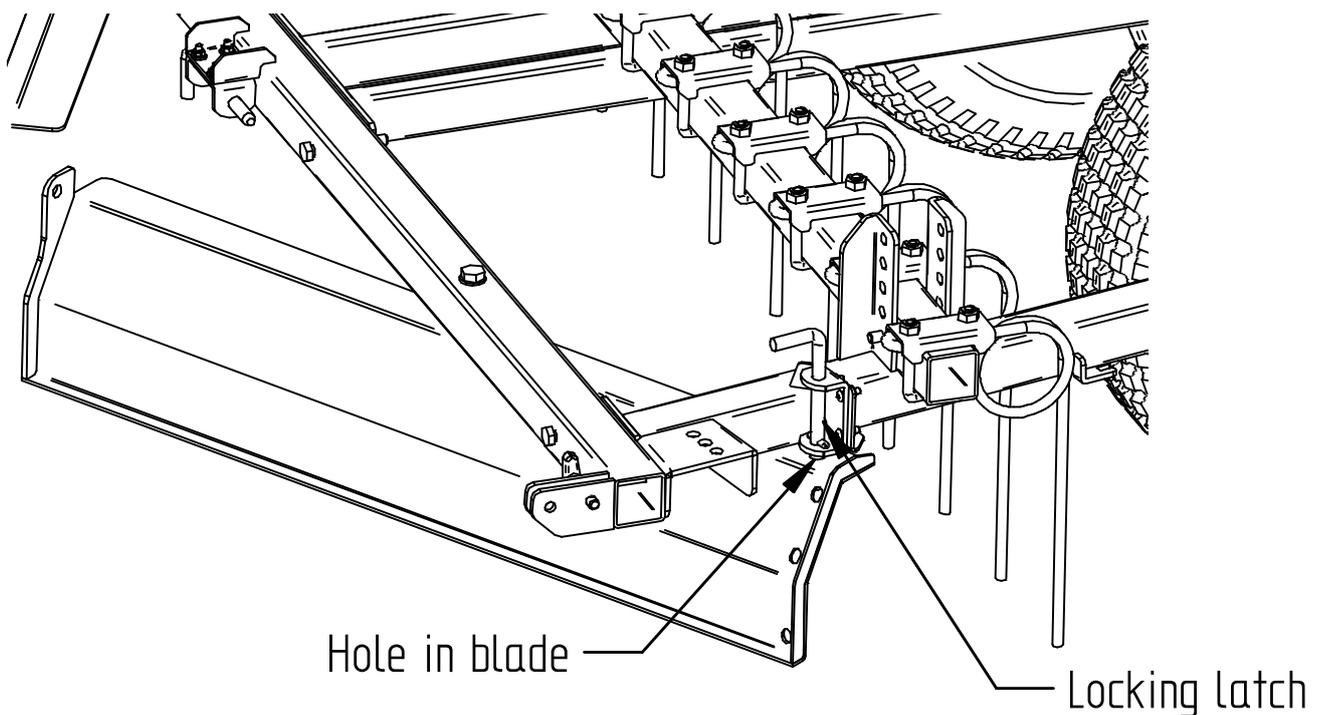
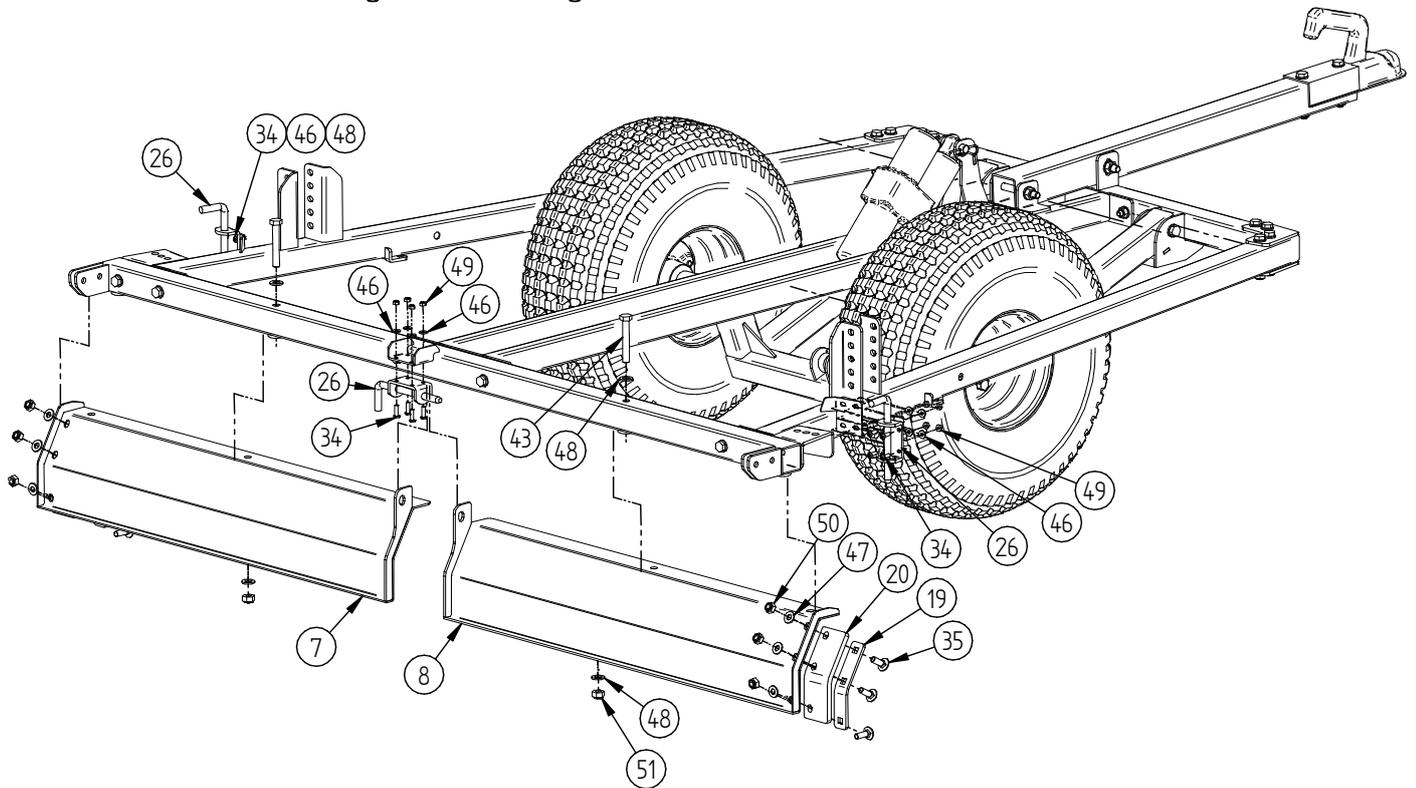
Step 6

Install rear right blade (Pos.8) and rear left blade (Pos.7), use M12x80 bolts (Pos.43), M12 washers (Pos.48) and M12 Nyloc nuts (Pos.51).

Install rear rubber blades (Pos.20) to right- and left rear blade, use rubber blade supports (Pos.19), M10x30 carriage bolts (Pos.35), M10 washers (Pos.47) and M10 Nyloc nuts (Pos.50).

To secure the locking latches (Pos.26) use M6x20 allen bolts (Pos.34), M6 washers (Pos.46) and M6 Nyloc nuts (Pos.49).

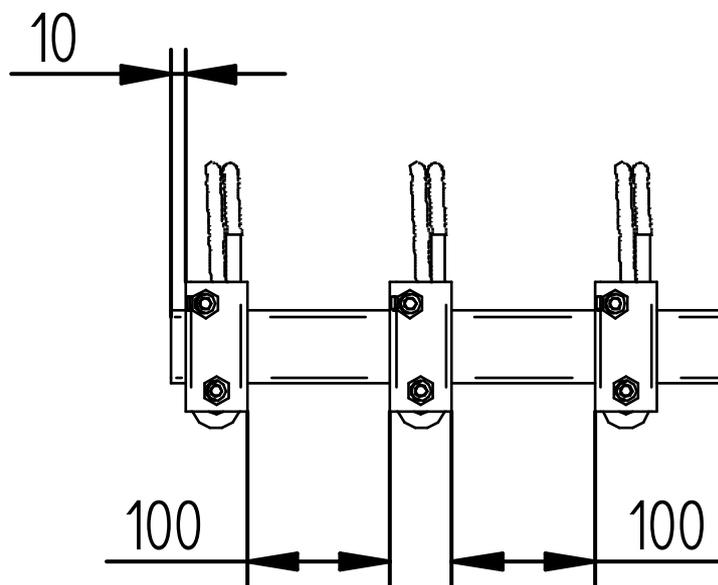
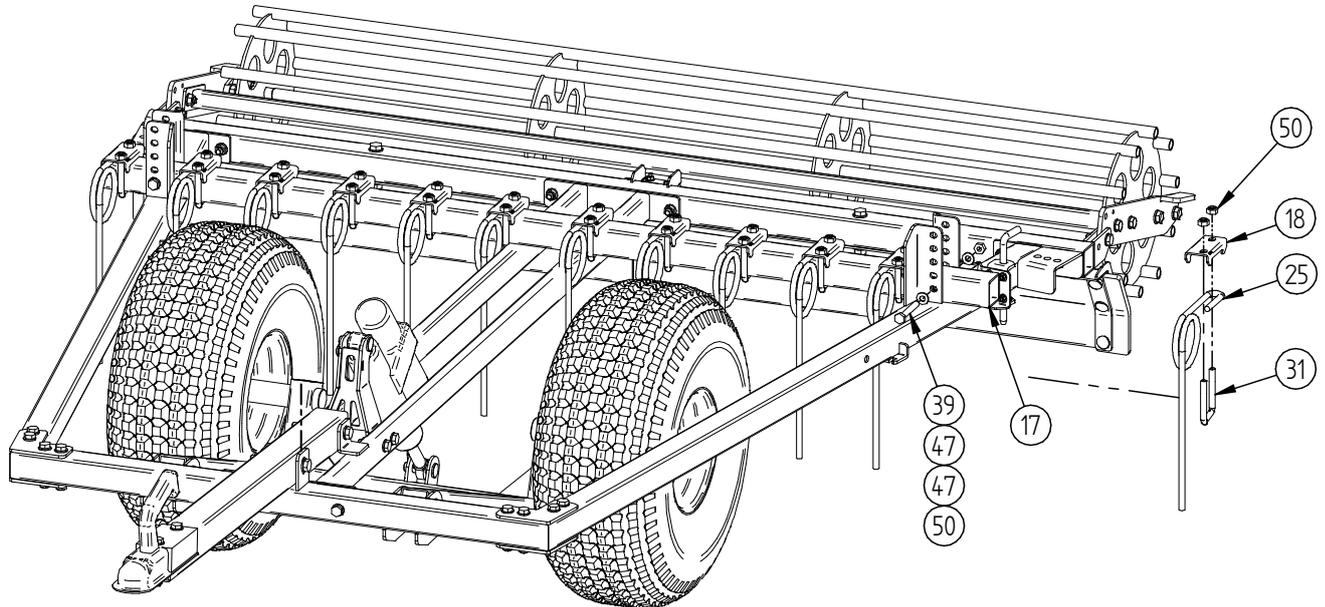
NB! To ensure that blade locking holes align with latches, turn the rear blades to an angle and then tighten the bolts.



Step 8

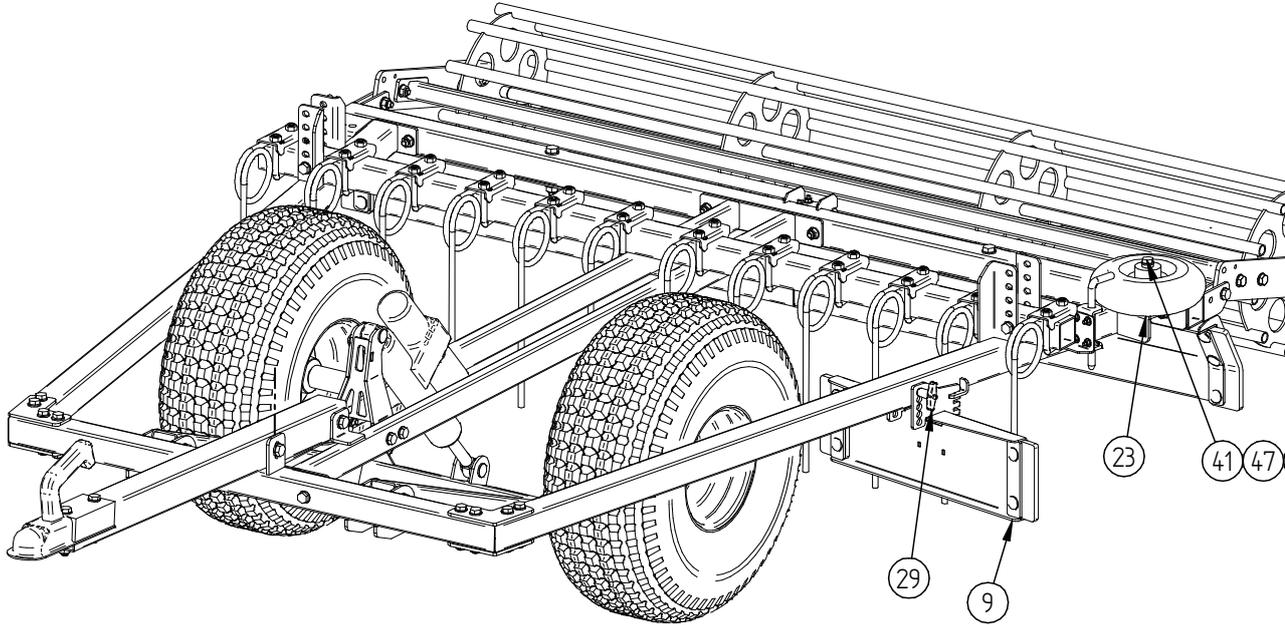
Install spring tine mounting tube (Pos.17) and place spring tines (Pos.25) on the tube, using spring tine holder (Pos.18), U-bolt (Pos.31) and M10 Nyloc nuts (Pos.50). Recommended gap between spring tines is 100mm (4 in) and first tine should be 10mm (1/2 in) from the end of the tube.

Choose the height of the mounting tube according to the desired working depth of the spring tines.



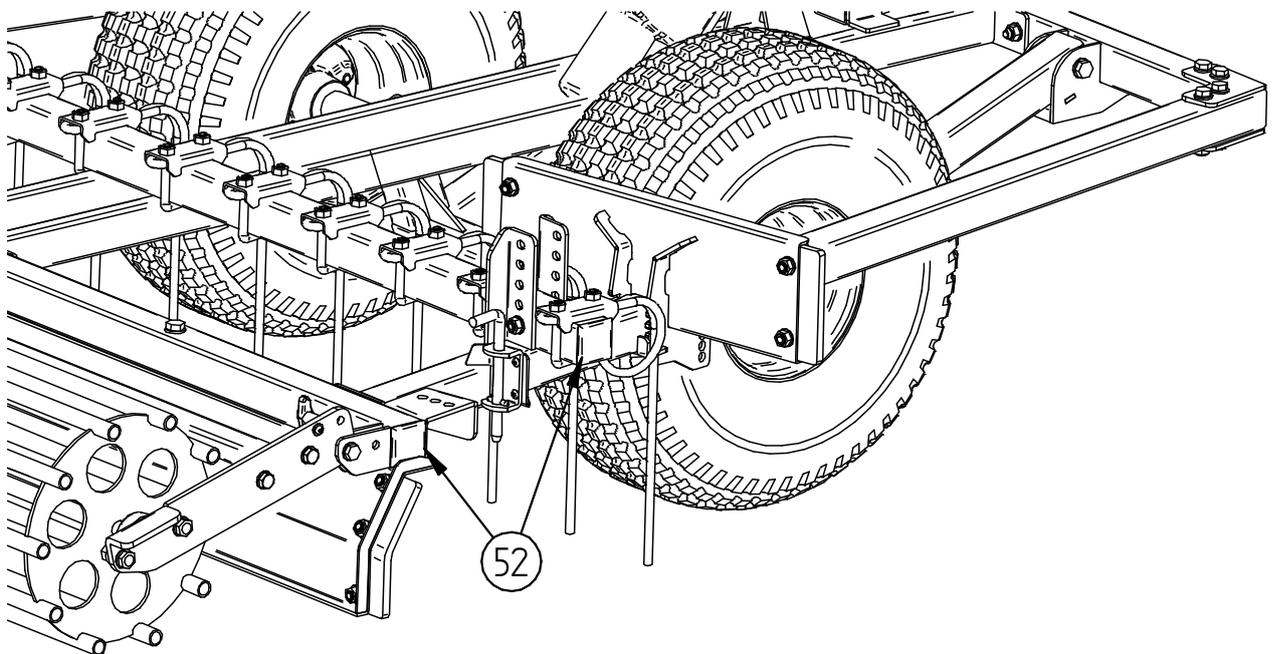
Step 9

Install perimeter wheel (Pos.23) on the right or left side as needed and choose the desired distance, secure the wheel with M10x110 bolt (Pos.41), M10 washers (Pos.47) and M10 Nyloc nut (Pos.50). Side blade (Pos.9) can be also placed on the right or left side of the frame. Securing and height adjustment of the blade is done with T-handle pin (Pos.29).



Step 10

Install Pos.52 tube end caps on both side of the tubes.



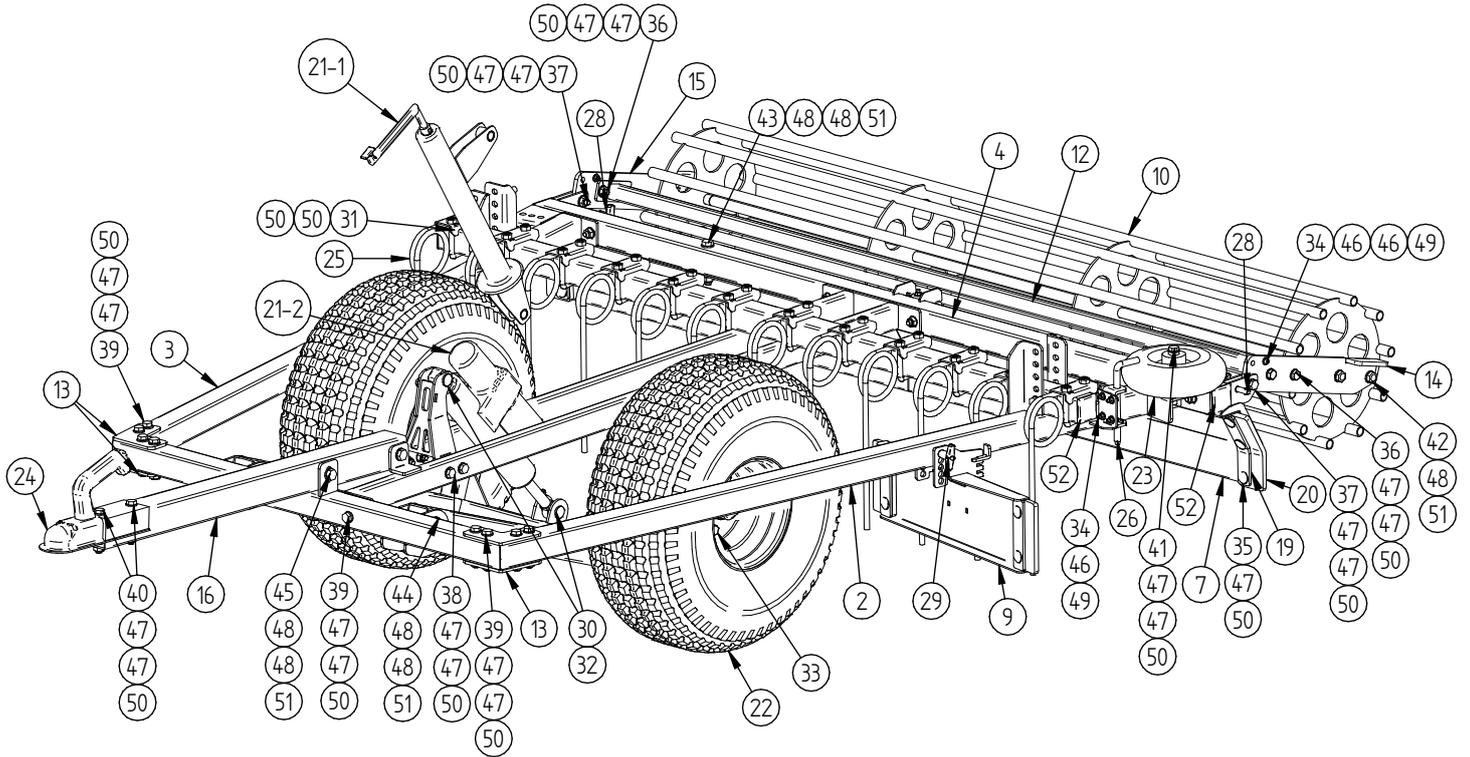
Step 11

You are now ready to use the arena leveller!

SPECIFICATION

Pos.	Description	Code	Amount
1	Frame front part	88.1101K	1
2	Frame left side	88.1102K	1
3	Frame right side	88.1103K	1
4	Frame rear part	88.1104K	1
5	Frame middle part	88.1105K	1
6	Axle assembly	88.1200K	1
7	Rear left blade	88.1300K	1
8	Rear right blade	88.1400K	1
9	Side blade	88.1500S	1
10	Leveller roll	88.1601K	1
11	Height adjuster mount	88.1700K	1
12	Roller support tube	88.1055K	1
13	Frame connecting plate	88.1014	4
14	Roller left holder	88.1036	1
15	Roller right holder	88.1037	1
16	Tow beam	88.1038	1
17	Spring tine mounting tube	88.1039	1
18	Spring tine holder	88.1040	12
19	Rear rubber blade support	88.1051	2
20	Rear rubber blade	88.1053	2
21-1	Manual height adjuster	14.10400	1
21-2	Electro-hydraulic cylinder with remote kit (OPTIONAL)	70.2800 (JDR)	1
22	Wheel 22x11x8	OT.10.03.010	2
23	Wheel 2,5-4"	OT.10.03.030	1
24	Coupling	OT.10.02.030	1
25	Spring tine Ø10 L346mm	OT.58.00.010	12
26	Locking latch	OT.57.00.010	3
27	Bearing UCFL204	OT.31.00.006	2
28	T handle pin 10x20	OT.53.00.031	2
29	T handle pin 12x70	OT.53.00.040	1
30	Height adjuster pin	71.3005	2
31	U-bolt 50mm	84.2010	12
32	Cotter pin 3mm DIN11024	OT.07.01.020	2
33	Wheel bolt M12x1,5	OT.02.09.010	8
34	Allan head bolt M6x20 ISO7380	OT.02.03.030	14
35	Carriage bolt M10x30 DIN603	OT.02.05.110	6
36	Bolt M10x30 DIN933	OT.02.02.320	4
37	Bolt M10x40 DIN931	OT.02.02.039	2
38	Bolt M10x50 DIN931	OT.02.01.042	4
39	Bolt M10x75 DIN931	OT.02.01.047	18
40	Bolt M10x80 DIN931	OT.02.01.048	2
41	Bolt M10x110 DIN931	OT.02.01.059	1
42	Bolt M12x35 DIN933	OT.02.02.400	4
43	Bolt M12x80 DIN931	OT.02.01.119	2
44	Bolt M12x90 DIN931	OT.02.01.120	2
45	Bolt M12x100 DIN931	OT.02.01.122	2
46	Washer Ø6/15 SFS3738	OT.04.03.020	16

47	Washer Ø10 DIN125	OT.04.01.040	68
48	Washer Ø12 DIN125	OT.04.01.050	16
49	Nut Nyloc M6 DIN985	OT.03.02.030	14
50	Nut Nyloc M10 DIN985	OT.03.02.050	61
51	Nut Nyloc M12 DIN985	OT.03.02.060	10
52	End cap 50x50	OT.10.07.020	4



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