

IRON BALTIC

SILO/BALE ROLL TRAILER

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USER MANUAL



code.ironbaltic.com/u/FZetO2jW

Code 85.1000

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: **Silo/bale roll trailer**
Type:
Model: **85.1000**

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

You have purchased silo/bale roll trailer. The trailer has been designed for private individuals/farmers who have to transport single silo/bale rolls from/to the field or to livestock feeding ground.

This manual provides instructions on the configuration, safe operation and maintenance of the trailer. Unnecessary use of the trailer can result in economic damage and personal injury, so it is very important that the person 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. The photos and illustrations contained in the manual do not necessarily represent actual models or accessories. They are provided solely for reference and are based on the latest product information available at the time of publication.



This symbol is used throughout the manual and on the warning labels for warning of possible severe injuries. Prior to using the vehicle and the trailer with the leaf vacuum, carefully read the safety instructions and make sure that you have understood them. Strictly follow all the instructions and require adherence to them from all persons using the trailer!

Retain this manual for the future reference.

Refer to the product specification and check whether you have received all parts of the supply package.

SAFETY PRECAUTIONS

The majority of accidents result from carelessness or negligence. Avoid unwanted accidents and follow the safety instructions below.

WORDING EXPLANATION

In this manual, the words "right" and "left" designate the directions from the point of view of the driver/operator sitting on his seat and looking forward.

TRAINING

1. Read thoroughly the safety instructions and terms of use.
2. Never allow children to operate the vehicle and the trailer with the silo/bale trailer. Never allow adult persons to operate the vehicle and the trailer with silo/bale trailer, if they have not received the proper training.
3. Neither the vehicle nor the trailer can be used while drunk or under the influence of the drugs that affect perception or reaction.
4. Make sure that there are no people, especially small children, or animals in the work area.



PROHIBITED ACTIONS

- Do not operate the trailer before you have carefully read the whole operation manual.
- Never operate the trailer without all the protective parts properly installed.
- Never operate the trailer without all safety devices installed and properly used.
- Never attempt to perform any adjustment operations while using trailer.
- Never carry any passenger on the trailer.
- Never leave the trailer unattended while working with silo/bale trailer.
- Never operate the trailer on overly steep slopes.
- Never operate the trailer in the dark, unless you use artificial lighting.
- Never climb on the trailer.
- Never modify any accessory or any part of the trailer without the written approval of the manufacturer.
- Never drive faster than 20km/h, or what the vehicle manufacturer recommends (the lower speed must be observed).

MANDATORY ACTIONS

- Follow this instruction manual as well as the instructions of the vehicle manufacturer.
- Make sure that all bystanders are at a safe distance during operation of the trailer.
- Maintain the trailer regularly and check the machine every time before you start operating it.
- Remove from the operation area all possible dangerous objects, unauthorised people, children, animals and birds.
- Reduce the speed of the vehicle when driving on a hillside or uneven terrain, in order to prevent the trailer from overturning.
- Always use the individual protective gear required for each kind of equipment.
- Always check that all components are properly installed.
- Check that the safety labels are in good condition and replace the damaged labels with new ones, if necessary.
- Keep your hands and feet away from the moving parts.
- The load to the ATV hitch ball should not exceed 60kg, or the weight specified by the manufacturer of the vehicle.
- Only use winch remote to load/unload the roll. Never use winch freespool!

SAFETY LABELS

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

Meaning of safety labels

	Read the manual before use!
	The risk of injury to hands! Due to the moving parts of the device, there is a risk of crushing and injuring hands!
	Maximum permitted speed 20 km / h!
	Maximum load capacity 1000 kg!
	Never carry any passenger on the trailer!
	It is forbidden to drive slopes over 15°!
	When lowering the frame, ensure that the limbs do not fall between the frame!
	Trace the surroundings when tilting the load and make sure it is safe!

PRODUCT DESCRIPTION

A silo/bale roll trailer is a durable double-axle trailer that can be attached to the ATV / UTV, suitable for transporting single silo/bale rolls from one place to another, from or to the field or to feeding ground etc.

The trailer is designed for ATVs and UTVs to be used off-road, but can be towed with any other vehicle equipped with a 50 mm hitch ball. Trailer does not cause notable damage to the terrain and is easily maneuverable, allowing access to places outside the reach of larger bale trailers.

Standard equipment :

- Trailer
- 360° rotating hitch
- Electric winch with remote

Product	Silo/bale roll trailer
Model	85.1000
Dimensions	2665 x 1625 x 1185 mm
Load capacity	1000 kg
Weight	175 kg

Table 1: Silo/bale roll trailer technical data

OPERATOR INSTRUCTIONS

Note

Prior to operating the trailer, carefully read this instruction manual!



Note

Prior to operating the trailer, carefully read the instruction manual for the vehicle (ATV)!



PREPARATION

1. Carry out the initial assembly (see the chapter: Initial Assembly).
2. Carefully inspect the planned operation area and remove all animals, birds, branch wood, foreign objects, etc. from there.
3. Never use the trailer without putting on the required outer garments. Avoid wearing loose clothes, which could get trapped between the moving parts. Wear footwear that reduces the risk of slipping.
4. Never attempt to perform any adjustments while working with trailer.
5. Never attempt to operate the trailer when any of the trailer part is faulty or damaged.
6. Always check that all components are properly installed and secured.
7. Never modify any accessory or any part without the written approval of the manufacturer.

OPERATOR INSTRUCTIONS

1. Before ride check that the towing coupling is securely connected with tow ball (check the indicator on tow coupling), check tow coupling connection to the tow beam.
2. Check tire pressure (the exact tire pressure is marked on the side of the tire) and check tension of the wheel bolts.
3. Never place your hand or foot close to, under or between any moving parts.
4. Be extremely careful when working on or crossing gravel roads, pavements or motorways. Consider the potential traffic hazards.
5. After a collision thoroughly inspect the trailer for damage and correct the faults before operating it.
6. Take all possible measures of safety when leaving the vehicle. Set the vehicle gear to neutral, activate the parking brake, stop the vehicle engine and remove the ignition key.
7. Be extremely cautious when operating the unit on slopes. Never attempt to work on a steep slope.
8. Keep unauthorised persons away from the operating area.
9. Never operate the unit at a high speed on a slippery surface. Be cautious when reversing.
10. Never take on board any passengers.
11. Keep the trailer away from heating units and open flames.
12. Stop the vehicles engine and apply vehicle handbrake before loading or unloading the silo/bale roll.



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.

OPERATION

1. Make sure that the trailer frame is in the lowered position and locked.
2. Make sure that nothing prevents the moving parts from operation, remove stuck debris before using the device.
3. Watch the surroundings, look out for children, pets, cars etc.
4. Reverse near the silo/bale roll. Leave ~2 meters between trailer and silo/bale roll.
5. Push the locking lever and lower the roll frame by pushing the winch remote OUT button.
6. Reverse against the roll and apply vehicle handbrake. Secure the roll with ratchet strap.
7. Standing in front of the trailer push the winch remote IN button to pull the silo/bale roll onto the trailer. Make sure the frame locks. If necessary, push the locking lever to help the frame to lock in place. Leave the winch line under small tension to further secure the frame.
8. Drive to the area where you want to unload the roll.
9. Push the winch OUT button to give ~15-20cm slack on the winch line. Push and hold the release lever to unlock the frame. With one hand push the ball to help start the tilting process. Push the winch remote OUT button until the roll is on the ground and there is slack in the winch line.
10. Release the ratchet strap holding the roll and drive ~2 meters away from the roll.
11. Lower the roll frame by pushing the winch remote IN button and make sure the frame locks in place.

Note

**In the transport position, do not travel faster than 20 km/h.
Never operate on a slope with a grade of over 15%.**



MAINTENANCE

Note

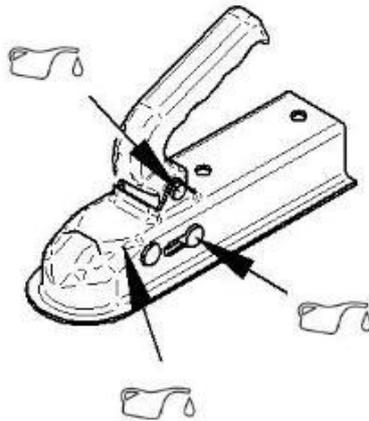
- Before the maintenance, assembly or disassembly of the trailer:
- Activate the vehicle parking brake.
 - Stop the vehicle engine, remove the ignition key.



MAINTENANCE SCHEDULE

Maintenance activity:	Before and after work	Weekly	Monthly	Seasonally
Clean the trailer and its components	•	•	•	•
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			•	•
Checking the wear rate of metal parts			•	•

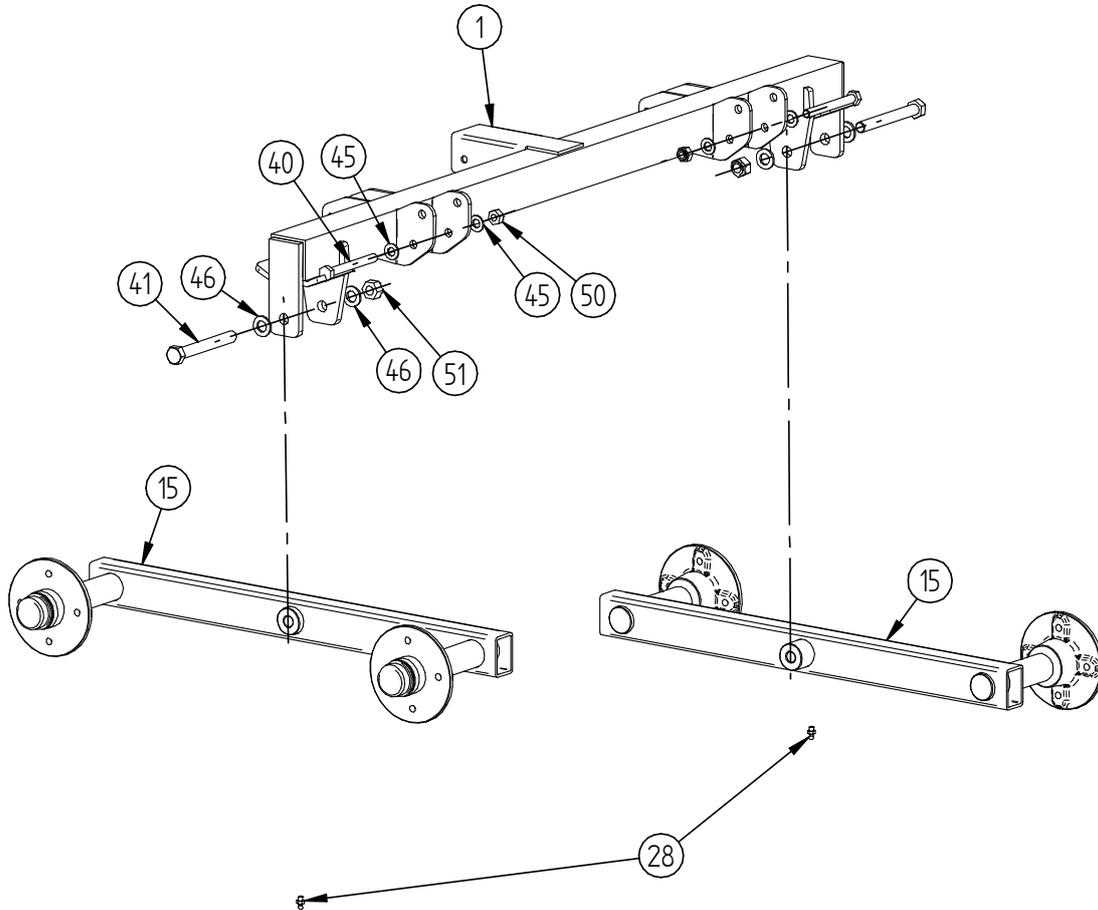
- If the tow coupling moves difficultly, add oil to places shown on the diagram or contact manufacturer or licenced reseller.



INITIAL ASSEMBLY

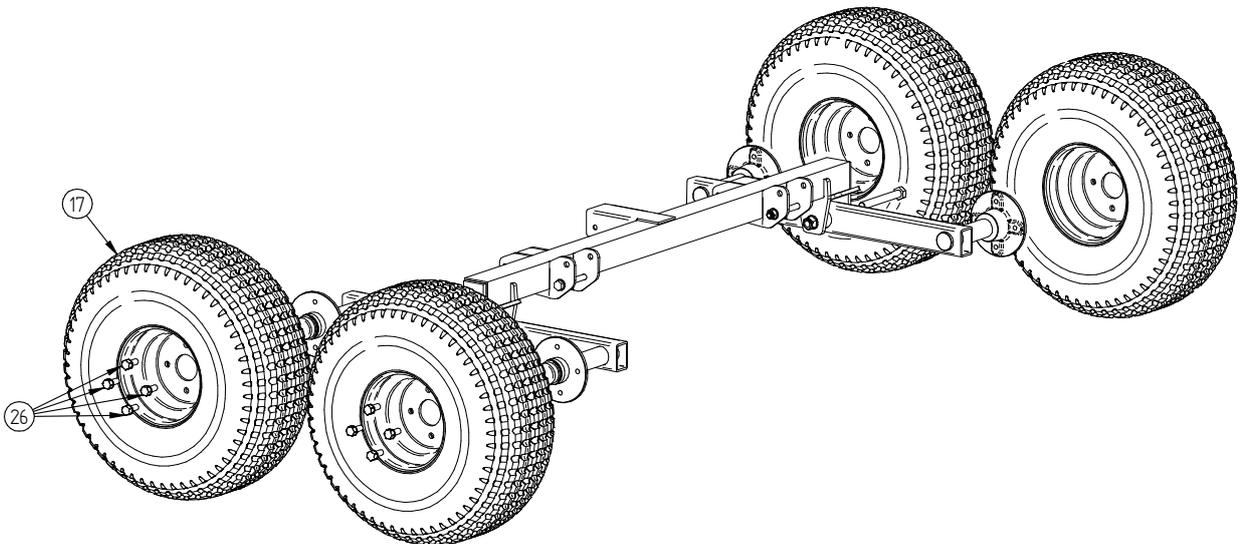
Step 1

Install axles (Pos.15) to axle beam (Pos.1) and tilt limiter bolts (Pos.39) to bottom hole on axle beam. Install grease nipples (Pos.27) to axle bushes, if not already fitted.



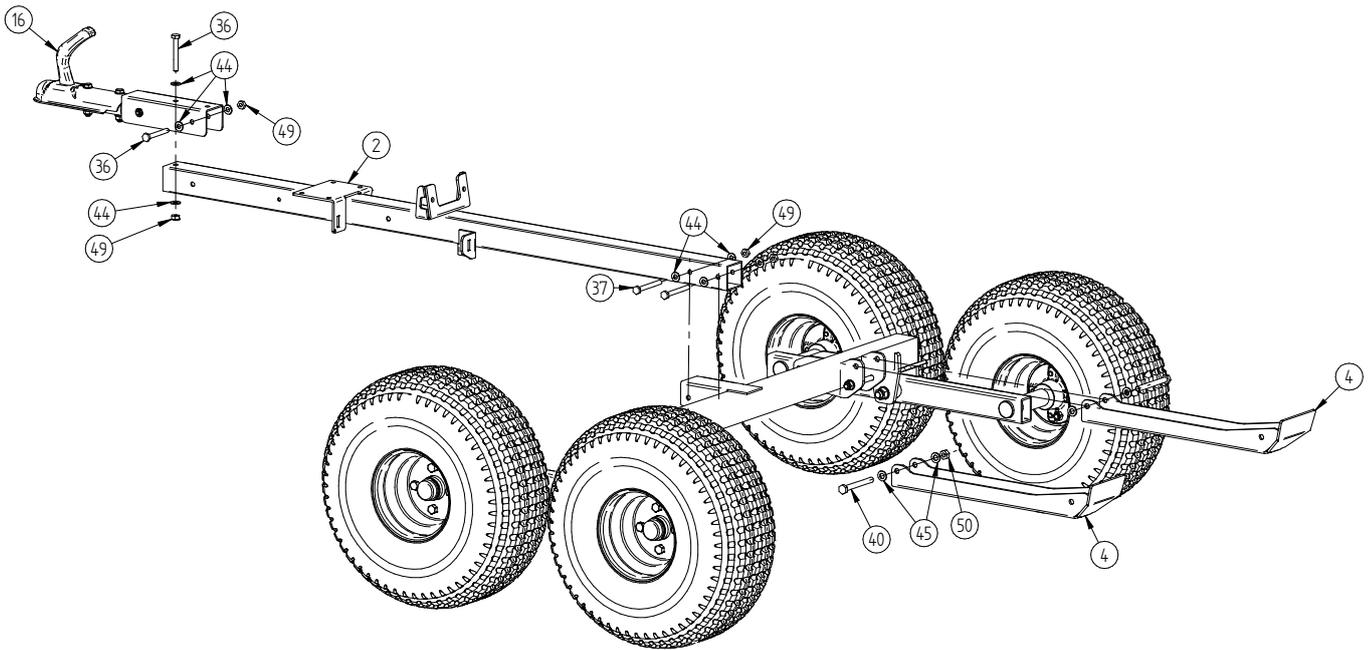
Step 2

Install wheels (Pos.17) to axles. Use wheelbolts (Pos.25)



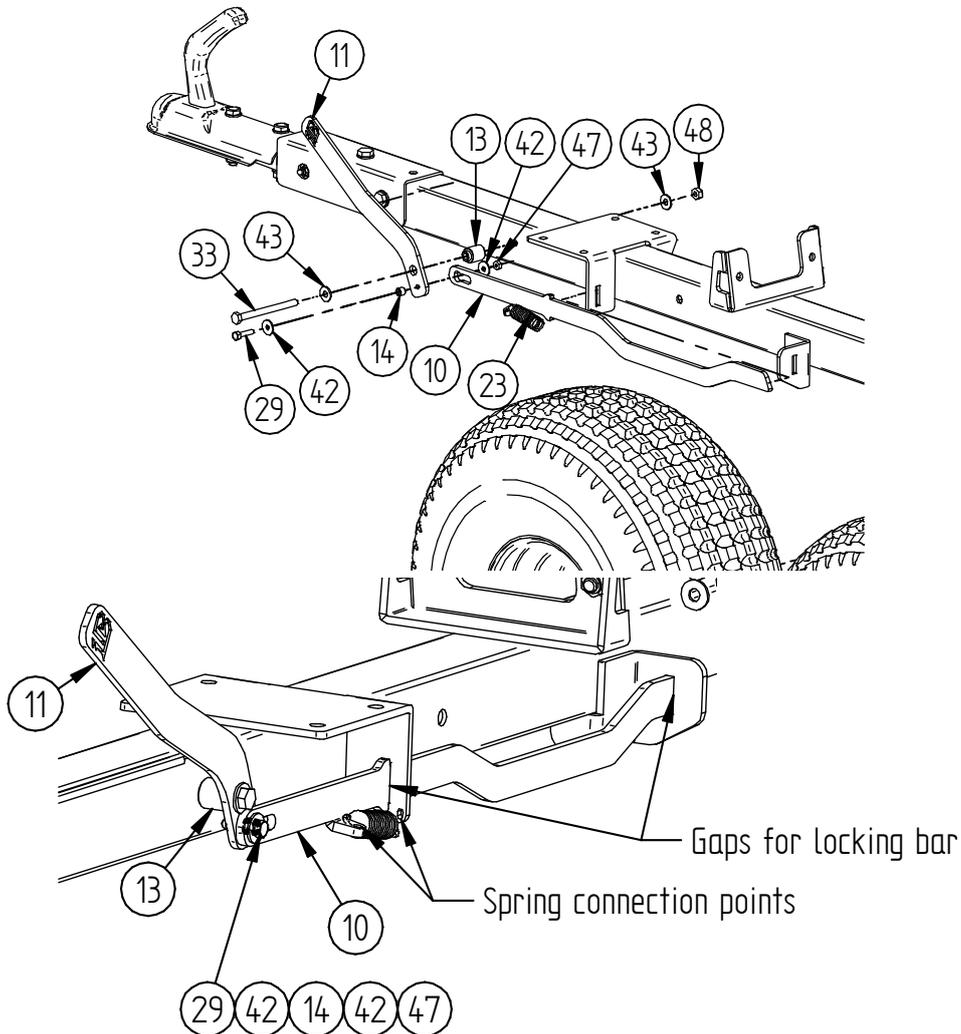
Step 3

Install towbeam (Pos.2) to axle beam and rotating coupling (Pos.16). Then install tilting diagonals (Pos.4) to axle beam.



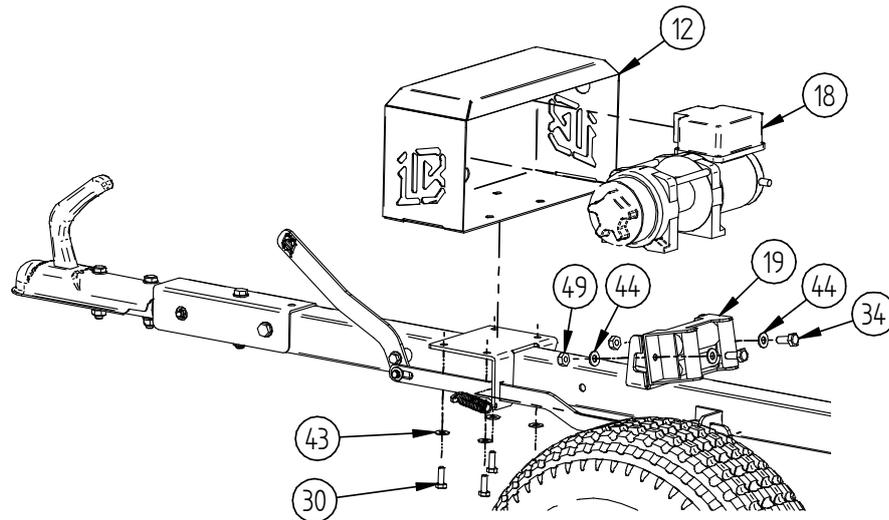
Step 4

Install locking bar (Pos.10) to tow beam. Locking bar goes through gaps and is fixed with tension spring (Pos.22). Assemble handle to tow beam and locking bar. Pos.13 bush goes between tow beam and handle Pos.11.



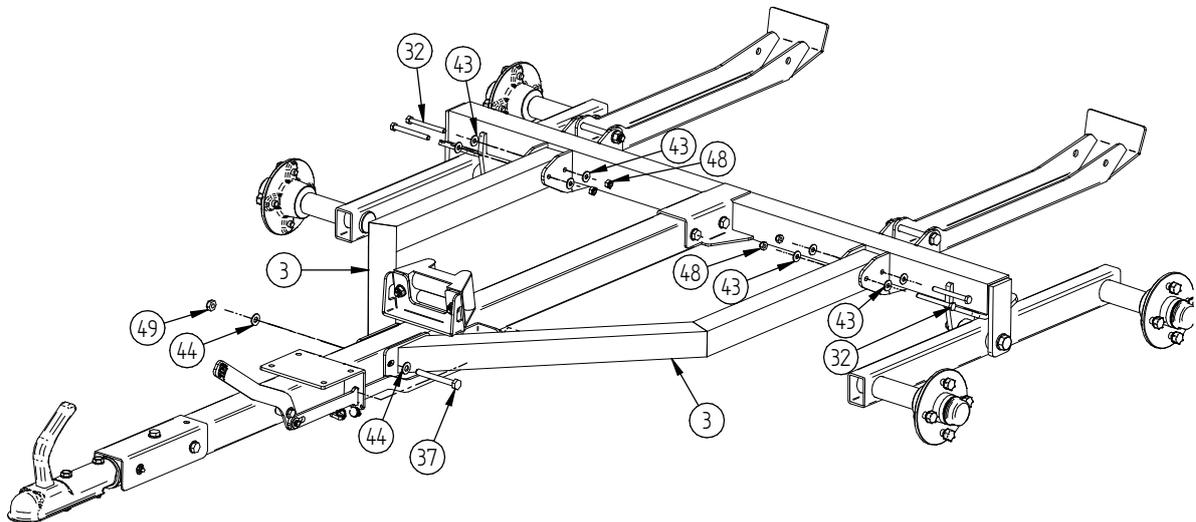
Step 5

Install winch (Pos.18), winch box (Pos.12) and fairlead (Pos.19).



Step 6

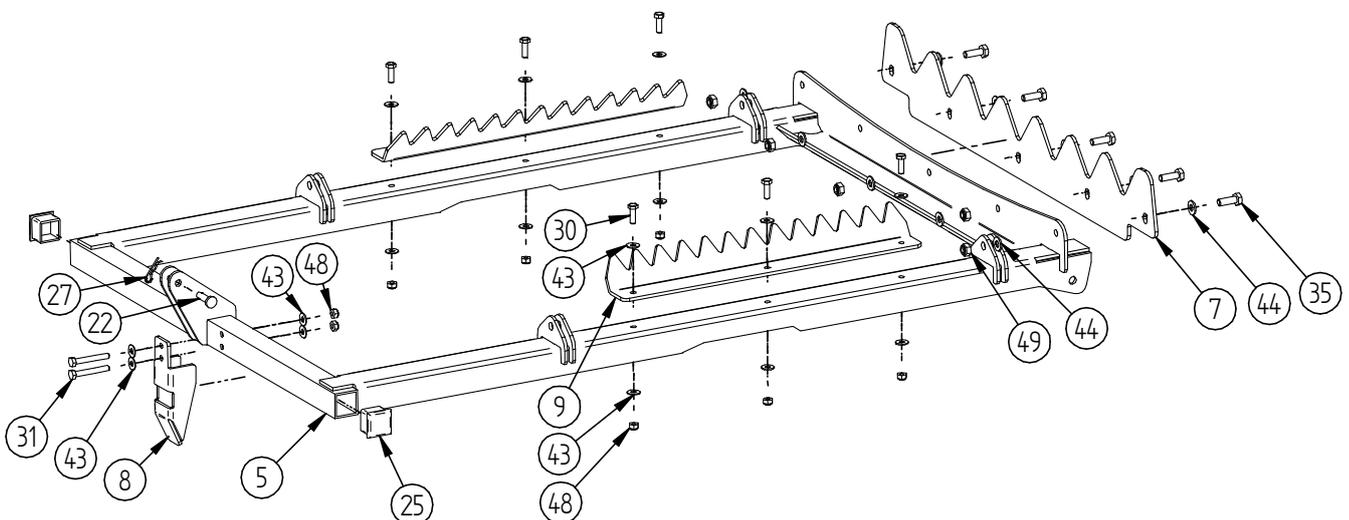
Install sideframes (Pos.3).



**Winch and wheels hidden for better visibility*

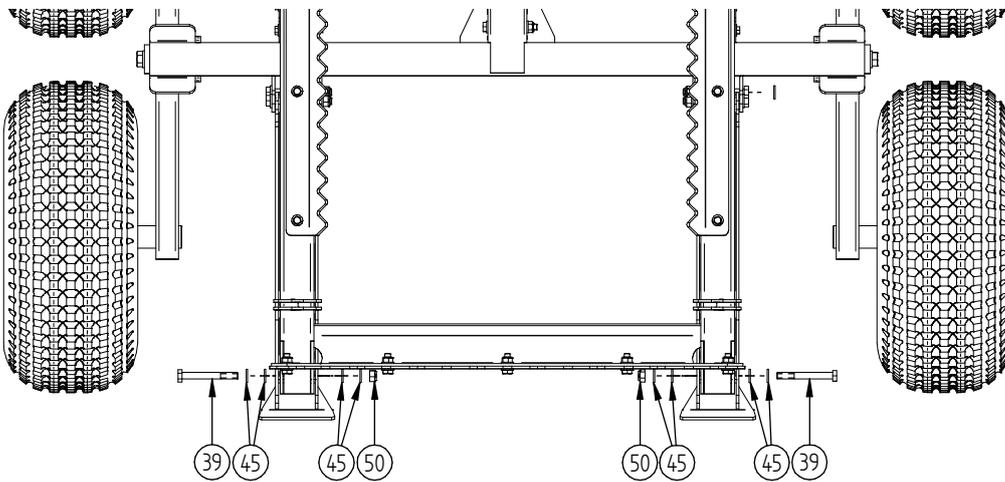
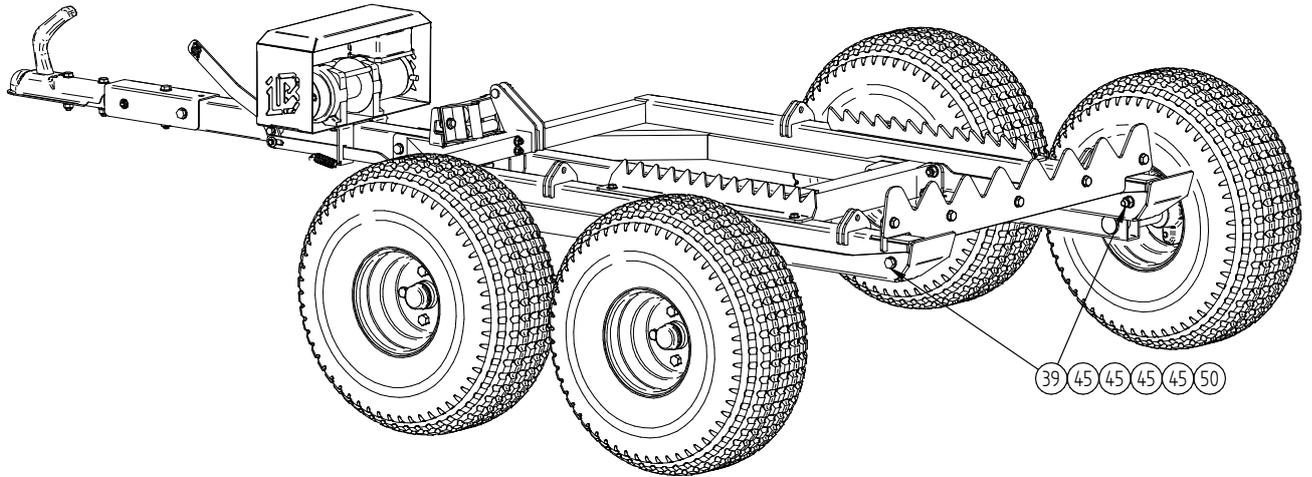
Step 7

Assemble the frame. Install locking barguide (Pos.8), tube endcaps (Pos.24), rear hayball support (Pos.7), if needed hayball middle supports (Pos.9) and pin (Pos.21).



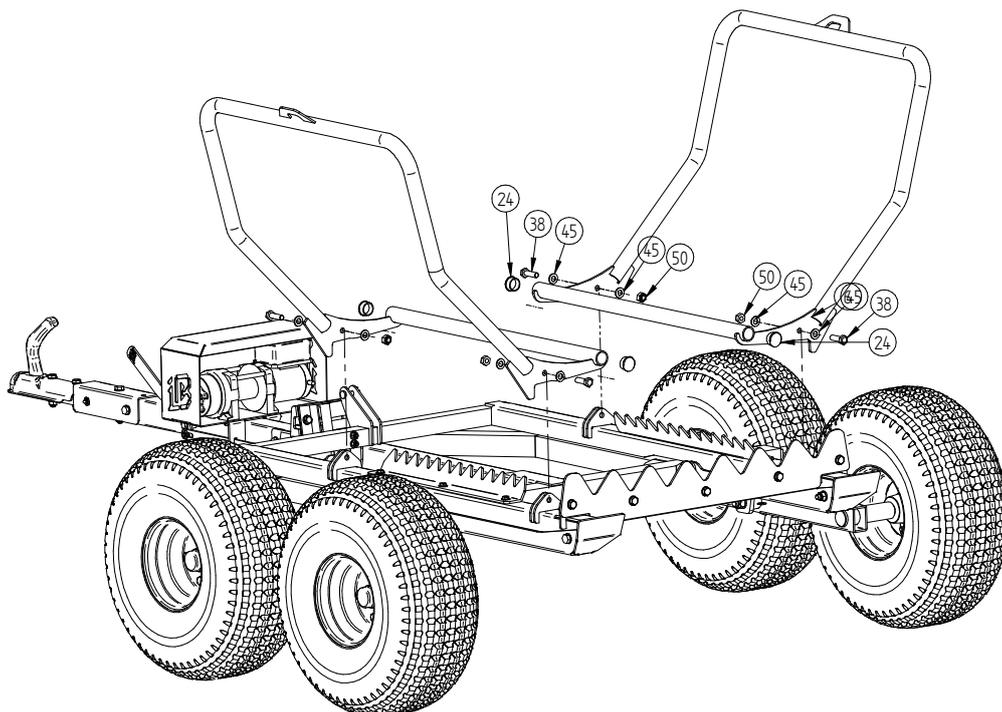
Step 8

Connect assembled frame with tilting diagonals. Two washers go between frame and diagonals for distance! Connect winch line to the frame with pin (Pos.21) attached before to the frame.



Step 9

Install hayball support frames (Pos.6) and endcaps (Pos.23).



SPECIFICATION

Pos.	Description	Code	Amount
1	Axle	85.1001K	1
2	Tow beam	85.1004K	1
3	Sideframe	85.1006K	2
4	Tilting diagonal	85.1009	2
5	Frame	85.1011K	1
6	Ball support frame	85.1017K	2
7	Rear ball support	85.1024	1
8	Locking bar guide	85.1026	1
9	Ball middle support	85.1028	2
10	Locking bar	85.1030	1
11	Locking bar handle	85.1031	1
12	Winch box	85.1033	1
13	Distance bush	85.1034	1
14	Handle bush	20.6260	1
15	Kiige rummudega	23.1040	2
16	Rotating coupling	23.1120	1
17	Wheel 22x11x8	OT.10.03.010	4
18	Winch set	85.1050	1
19	Winch fairlead	06.001-3	1
20	Powercable (battery-connector) L=3000mm	IB_1	1
21	Ratchet strap 35mm x 2000mm	OT.37.01.011	1
22	Pin 10x40mm	14.003	1
23	Tension spring	OT.11.01.040	1
24	Tube endcap 35mm	OT.10.07.006	4
25	Tube endcap 40x40	OT.10.07.010	2
26	Wheel bolt	OT.02.09.010	16
27	Cotterpin 2mm	OT.07.01.010	1
28	Grease nipple M6	OT.17.00.005	2
29	Bolt M6x25 DIN933	OT.02.02.070	1
30	Bolt M8x25 DIN933	OT.02.02.190	10
31	Bolt M8x60 DIN931	OT.02.01.015	2
32	Bolt M8x80 DIN931	OT.02.01.017	4
33	Bolt M8x100 DIN 931	OT.02.01.019	1
34	Bolt M10x25 DIN933	OT.02.02.317	2
35	Bolt M10x30 DIN933	OT.02.02.320	5
36	Bolt M10x80 DIN931	OT.02.01.048	2
37	Bolt M10x90 DIN931	OT.02.01.050	3
38	Bolt M12x40 DIN933	OT.02.02.410	4
39	Bolt M12x100 DIN931	OT.02.01.122	2
40	Bolt M12x110 DIN931	OT.02.01.125	4
41	Bolt M16x130 DIN931	OT.02.01.160	2
42	Washer Ø6/18 DIN9021	OT.04.03.020	2
43	Washer Ø8/20 SFS3738	OT.04.03.030	30
44	Washer M10 DIN125	OT.04.01.040	24
45	Washer M12 DIN125	OT.04.01.050	24
46	Washer M16 DIN125	OT.04.01.060	4
47	Nyloc nut M6 DIN985	OT.03.02.030	1
48	Nyloc nut M8 DIN985	OT.03.02.040	13
49	Nyloc nut M10 DIN985	OT.03.02.050	12
50	Nyloc nut M12 DIN985	OT.03.02.060	10
51	Nyloc nut M16 DIN985	OT.03.02.070	2

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