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ATV TRAILER OFFROAD 500

Code 89.1000

Version 24092024



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: Joa tee 17, Vääna, Harku vald, 76903 Estonia

Product: **Trailer**
Type: **OFFROAD 500**
Model: **89.1000**

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: Vääna, 28.09.2023



.....
Tiit Norak
Member of the Board

INTRODUCTION

Thank you for choosing Iron Baltic product. This manual contains specifications for the trailer OFFROAD 500, as well as instructions for product assembly, safe operation and maintenance. Unnecessary use of the trailer can result economic damage and personal injury, so it is very important that the person who 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 trailer or their accessories. 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 trailer, 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!

SAFETY INSTRUCTIONS

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

The ATV together with the trailer 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 trailer.
- Never allow adult persons to operate the vehicle or the trailer if they have not received the proper training
- Neither the vehicle nor the trailer 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 trailer on overly steep slopes.
- Never operate the trailer without all the protective parts properly installed.
- Do not operate the trailer 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 trailer.
- It is forbidden to mount attachments to the trailer 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 trailer.
- 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 load to the ATV hitch ball should not exceed 60kg, or the weight specified by the manufacturer of the vehicle (the lower weight must be observed).
- The safe road-steadiness of the vehicle must always be ensured by using the correct accessories for the task in hand (chains, counterbalances, etc).
- Distribute the load on the trailer as evenly as possible (place heavy pieces to the centre, on the axle).
- 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.
- When unhooking the trailer, make sure there is no load on the trailer



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!
	Maximum load capacity 500 kg!
	Never carry any passenger on the trailer!
	It is forbidden to drive slopes over 15°!
	When lowering the box, ensure that the limbs do not fall between the box and the frame!
	Trace the surroundings when tilting the load and make sure it is safe!
	Read the manual before use!

PRODUCT DESCRIPTION

The Iron Baltic OFFROAD 500 is a durable trailer that can be attached to the ATV or UTV and carry up to 500 kg load.

The trailer is designed for ATVs and UTVs 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 can be easily manoeuvre between trees, allowing access to places where large tractors are not accessible.

Cargo box is designed for transporting various goods and materials. The front and rear panels of the box are removable and in addition, it is possible to add side extensions (89.2000) to the cargo box which allows to transport oversized loads. Tilting of the cargo box is possible as an option with gas shock or electro-hydraulic cylinder.

Standard equipment:

- Trailer
- 360° rotating hitch

Optional extras:

- Cargo box tilting with electro-hydraulic cylinder
- Cargo box tilting with hydraulic cylinder
- Cargo box tilting with gas shock absorber
- Cargo box side extensions
- Support leg
- PVC cover
- Rear lights

Product	Trailer „OFFROAD 500“
Model	89.1000
Dimensions	2380 x 1150 x 970 mm
Cargo box capacity	0,6 m ³ (1,0 m ³ with extensions)
Load capacity	500 kg
Weight	115 kg
Tires	22 x 11 – 8

Table 1: Trailer OFFROAD 500 technical data

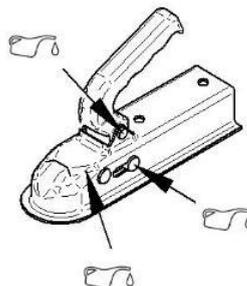
USER GUIDE

- Read the safety instructions before driving!
- Check tow coupling connection to the tow beam before ride.
- Before ride, check 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 trailer manufacturer.
- Before ride, check tension of the wheel bolts.
- Load the trailer evenly and in such way that the centre of the load is as close to the axle as possible.
- When loading take into account the capacity of the trailer and that the load to the ATV hitch ball should not exceed 60kg, or the weight specified by the manufacturer of the vehicle (lower weight must be observed). Make sure that the load does not extend over the edges.
- The highest speed when transporting a load is 20km/h, or what the vehicle manufacturer recommends (the lower speed must be observed).
- Make sure that the box clamp is locked before loading the load.
- To tilt the load from the cargo box, apply the ATV parking brake, open the box clamp and lift the box.

MAINTENANCE

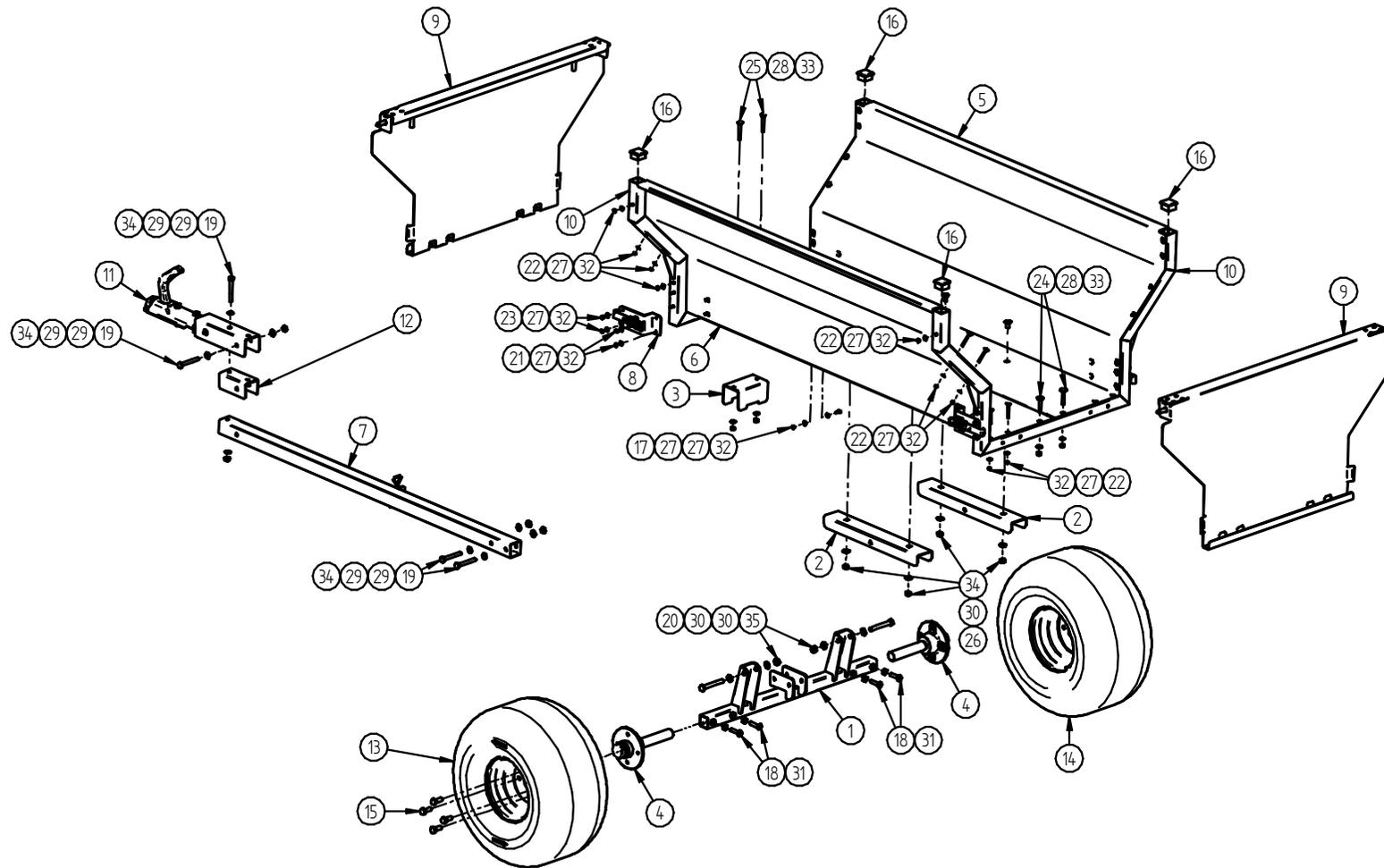
Maintenance activity:	Before and after work	Weekly	Monthly	Seasonally
Clean the trailer	•	•	•	•
Tire pressure, wheel bolts, tow coupling connection check	•	•	•	•
Visual inspection of parts fastening	•	•	•	•
Checking the condition of all connecting parts		•	•	•
Inspection of safety labels		•	•	•
Lubricate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

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



SPECIFICATION

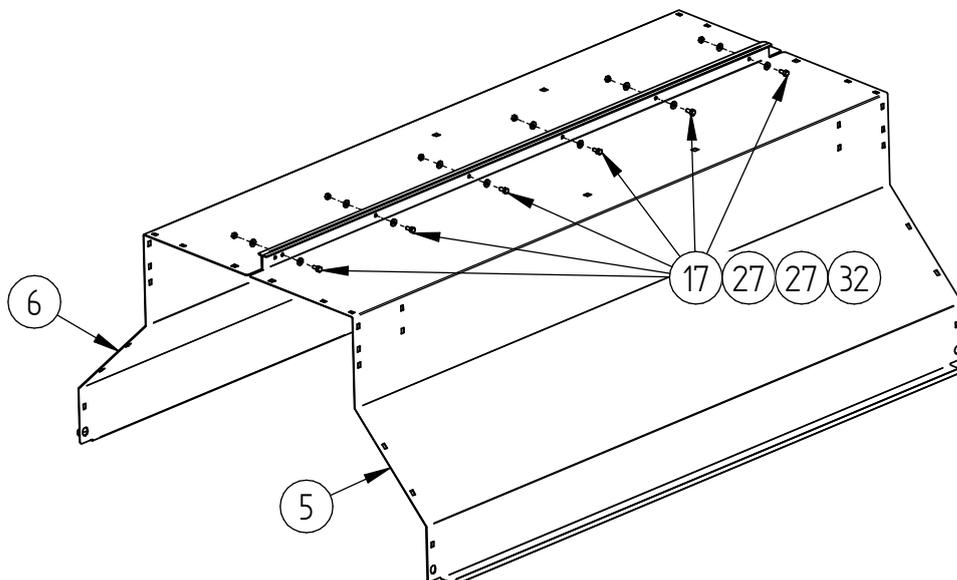
Pos.	Description	Code	Amount
1	Axle	89.1001K	1
2	Cargo box tilting profile	89.1004	2
3	Cargo box front retainer	89.1005	1
4	Wheel hub	89.1019	2
5	Cargo box side panel right	89.1021	1
6	Cargo box side panel left	89.1022	1
7	Tow beam	89.1023S	1
8	Hatch lock	86.2011K	4
9	Hatch	86.2021K	2
10	Cargo box frame	86.2023K	2
11	Tow coupling	23.1120	1
12	Coupling adapter	31.101	1
13	Wheel 22X11-8 (E4-106R) (left)	OT.10.03.123	1
14	Wheel 22X11-8 (E4-106R) (right)	OT.10.03.124	1
15	Wheel bolt M12x1,5	OT.02.09.010	8
16	Tube cap 40x40	OT.10.07.010	4
17	Bolt M6x14 DIN933	OT.02.02.040	6
18	Bolt M10x40 DIN933	OT.02.02.330	4
19	Bolt M10x80 DIN931	OT.02.01.048	4
20	Bolt M12x90 DIN931	OT.02.01.120	2
21	Bolt M6x16 DIN603	OT.02.05.010	8
22	Bolt M6x50 DIN603	OT.02.05.030	24
23	Bolt M6x60 DIN603	OT.02.05.028	8
24	Bolt M8x50 DIN603	OT.02.05.075	2
25	Bolt M8x60 DIN603	OT.02.05.080	2
26	Bolt M10x20 DIN603	OT.02.05.104	4
27	Washer Ø6/15 SFS3738	OT.04.03.020	52
28	Washer Ø8/20 SFS3738	OT.04.03.030	4
29	Washer Ø 10 DIN125	OT.04.01.040	8
30	Washer Ø 12 DIN125	OT.04.01.050	8
31	Nut M10 DIN934	OT.03.01.040	4
32	Nyloc nut M6 DIN985	OT.03.02.030	46
33	Nyloc nut M8 DIN985	OT.03.02.040	4
34	Nyloc nut M10 DIN985	OT.03.02.050	8
35	Nyloc nut M12 DIN985	OT.03.02.060	2



FITTING INSTRUCTIONS

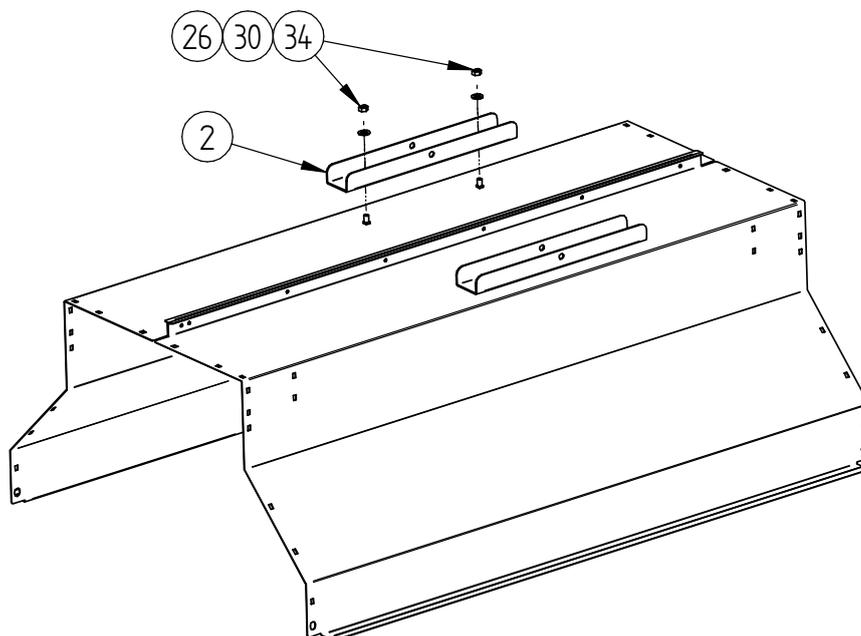
Step 1

Connect the sides of the cargo box (Pos.5 and Pos.6). For fastening, use M6x14 bolts (Pos.17), Ø6 mm washers (Pos.27) and M6 nyloc nuts (Pos.32). NB! Do not tighten the bolts!



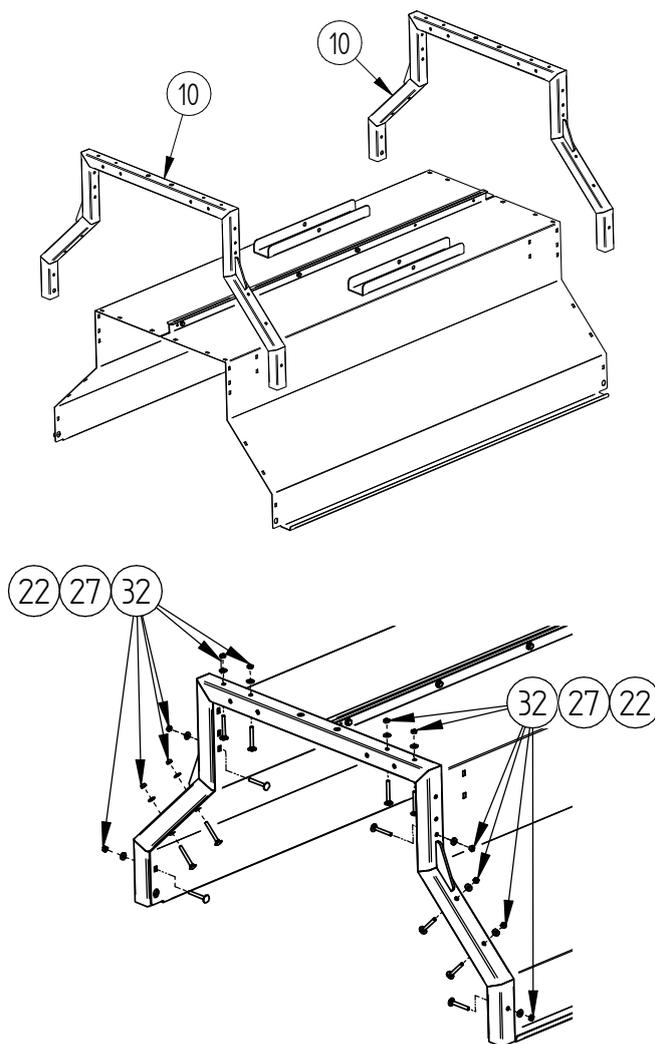
Step 2

Install tilting profiles (Pos.2) to cargo box. For fastening, use M10x20 carriage bolts (Pos.26), Ø12 mm washers (Pos.30) and M10 nyloc nuts (Pos.34).



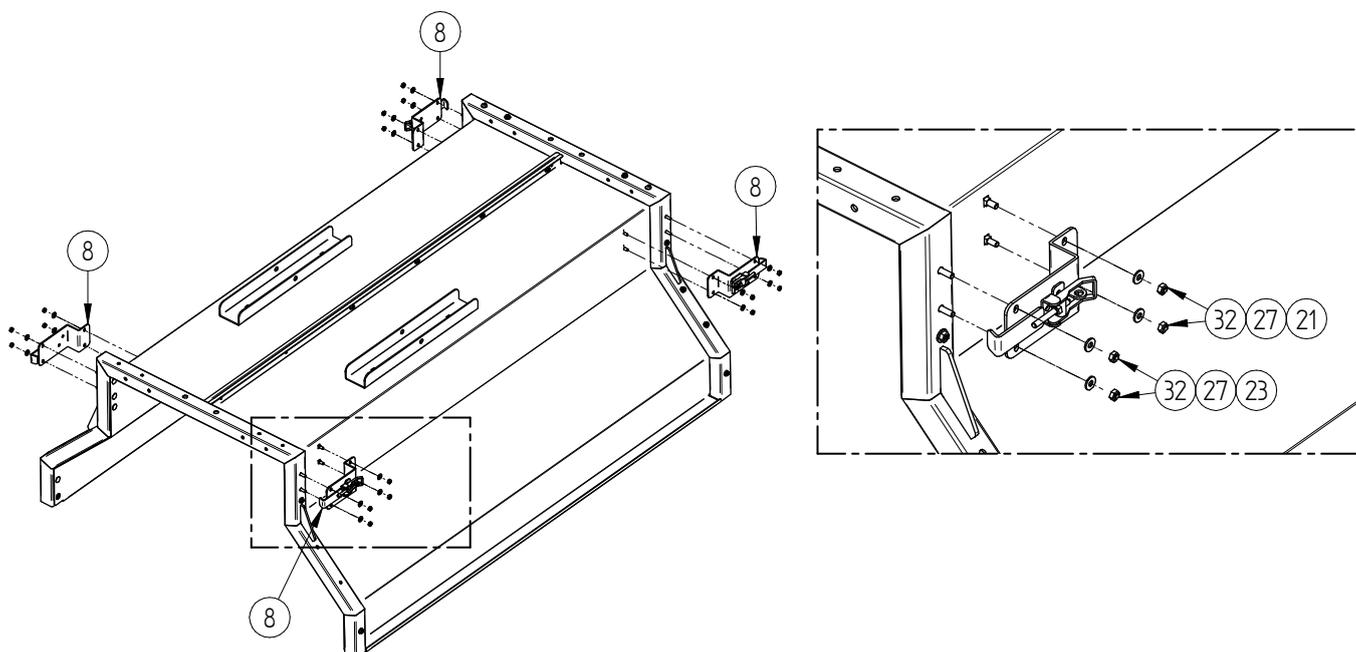
Step 3

Install the cargo box frames (Pos.10) and fasten them to the box in the places shown in the figure. For fastening, use M6x50 wood bolts (Pos.22), Ø6 mm washers (Pos.27) and M6 nyloc nuts (Pos.32). NB! Do not tighten the bolts!



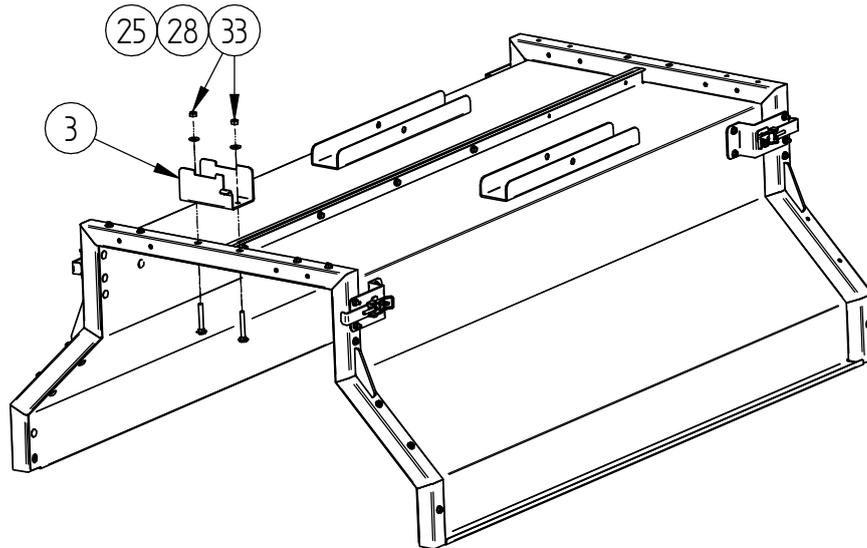
Step 4

Install the hatch locks (Pos.8). For fastening, use M6x16 carriage bolts (Pos.21), M6x60 carriage bolts (Pos.23), Ø6 mm washers (Pos.27) and M6 nyloc nuts (Pos.32).



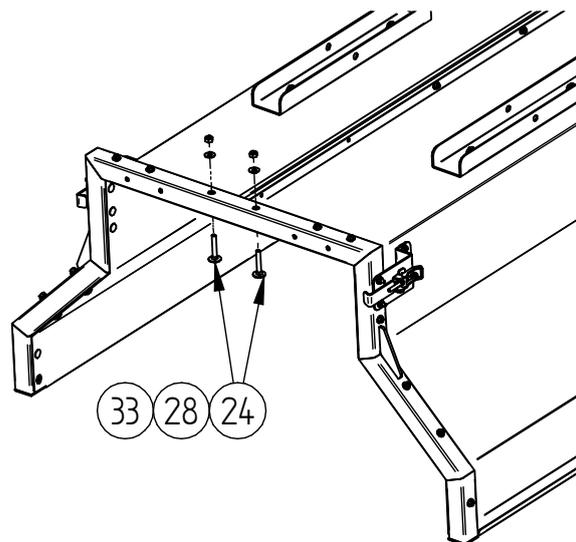
Step 5

Install cargo box retainer (Pos.3) to the front of the cargo box. For fastening use M8x60 carriage bolts (Pos.25), Ø8 mm washers (Pos.28) ja M8 nyloc nuts (Pos.33).



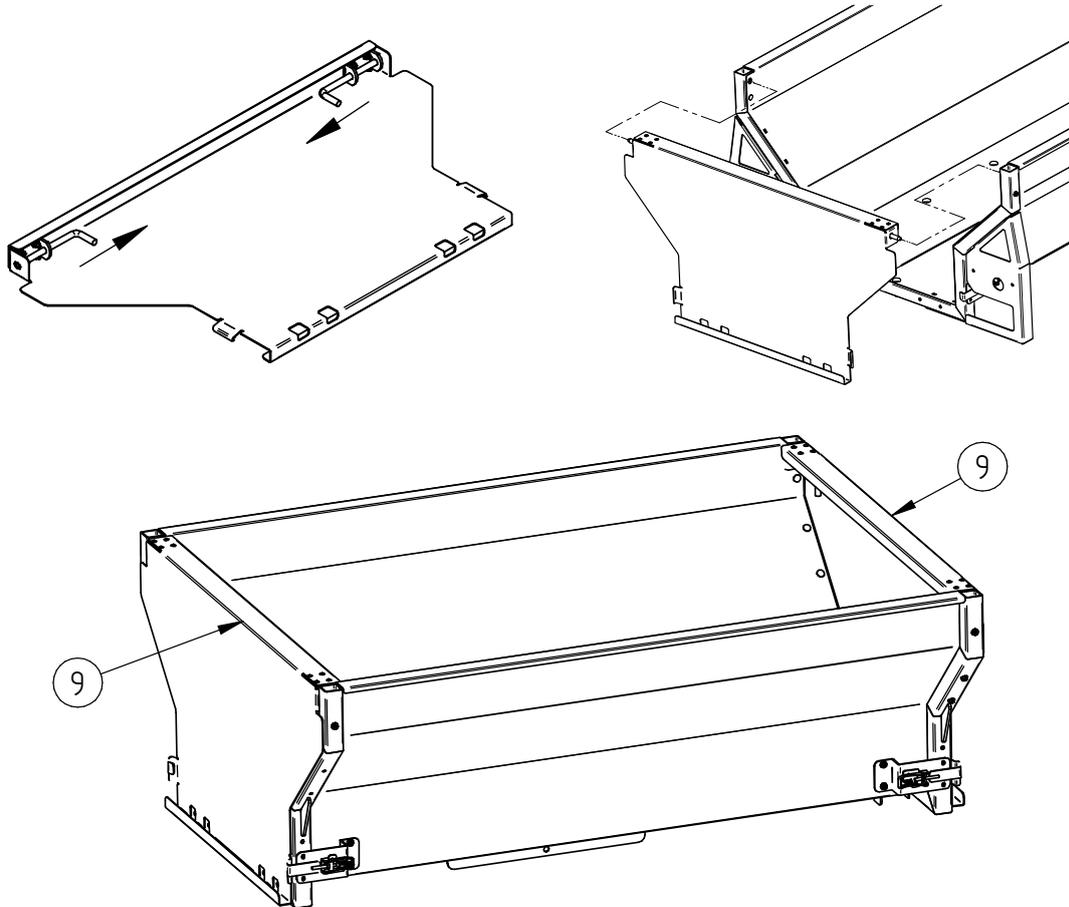
Step 6

Install the missing frame mounting bolts/nuts. Use M8x50 bolts (Pos.24), Ø8 mm washers (Pos.28) and M8 nyloc nuts (Pos.33).



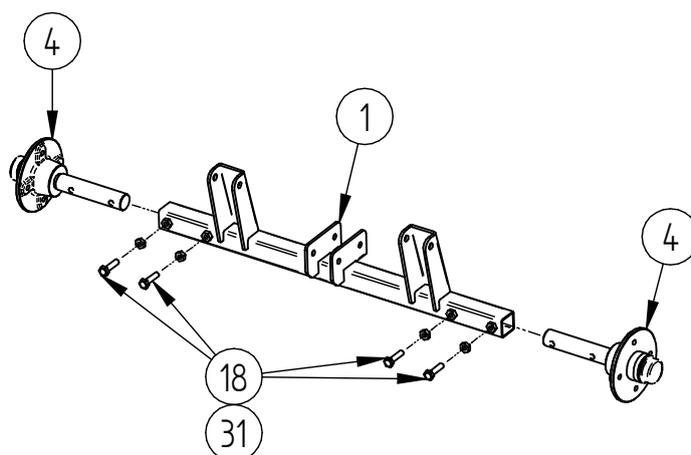
Step 7

Install the hatches to the cargo box (Pos.9). To install, pull the latches towards to the centre of the hatch. Place the hatch to the box so that the latches align with the holes in the top of the cargo box. Release the latches and check that they are fully locked in the holes in the box. Lock the lower part of the hatch with the hatch locks on the box.



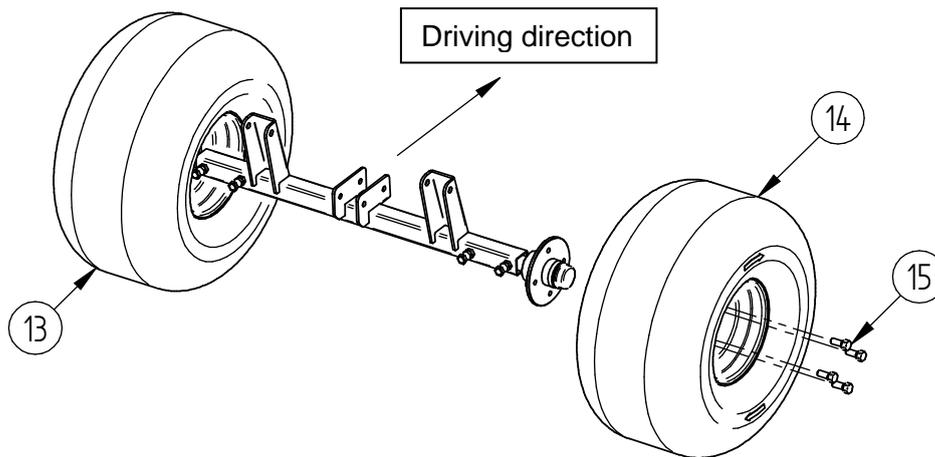
Step 8

Install wheel hubs (Pos.4) to the axle (Pos.1). For fastening use M10x40 bolts (Pos.18) and lock the bolts with M10 nuts (Pos.31).



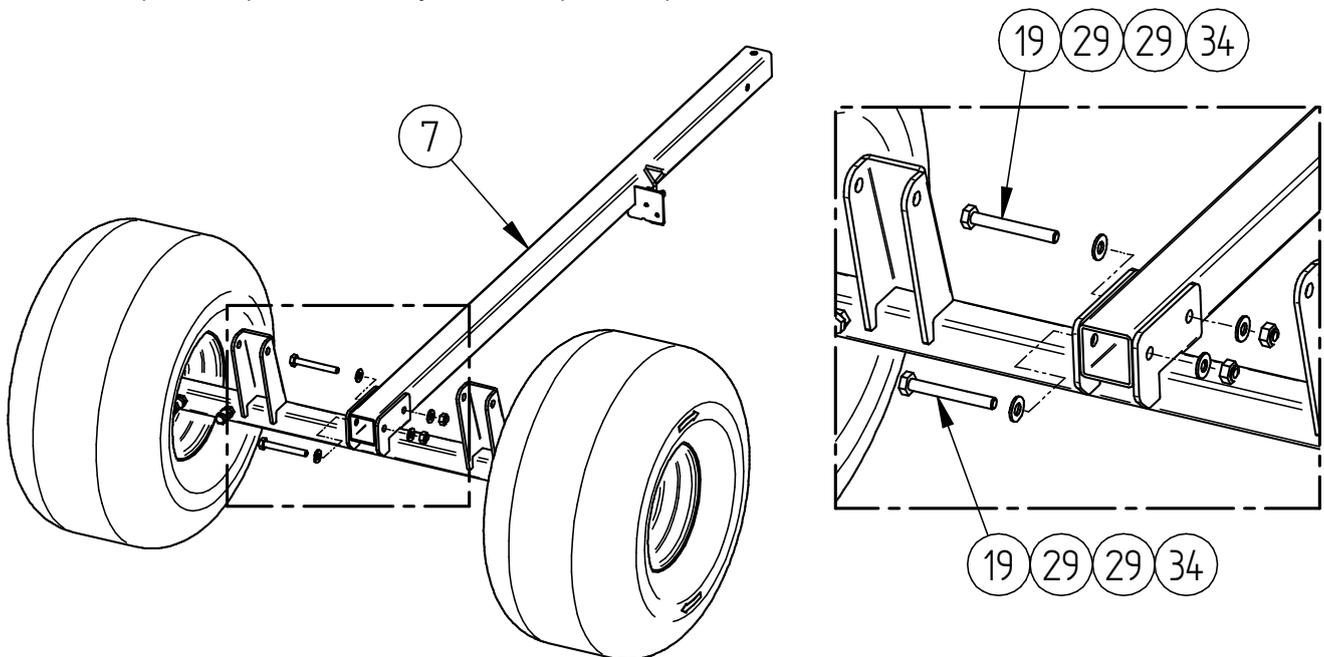
Step 9

Install wheels (Pos.13 and Pos.14). Watch tire direction and that the tire valve is facing outside. For fastening use wheel bolts (Pos.15).



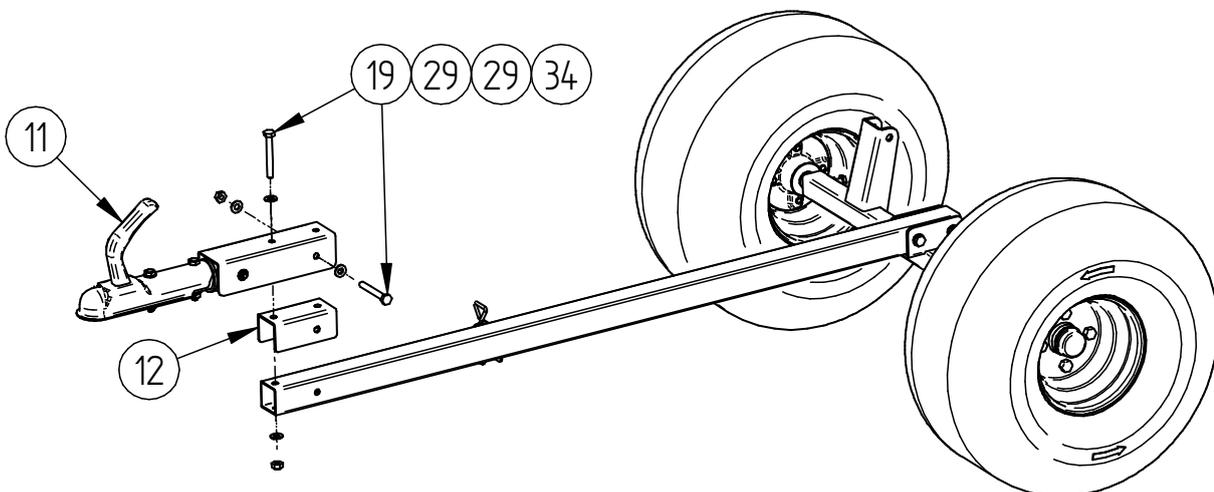
Step 10

Install tow beam (Pos.7). For fastening use M10x80 bolts (Pos.19), Ø10 mm washers (Pos.29) and M10 nyloc nuts (Pos.34).



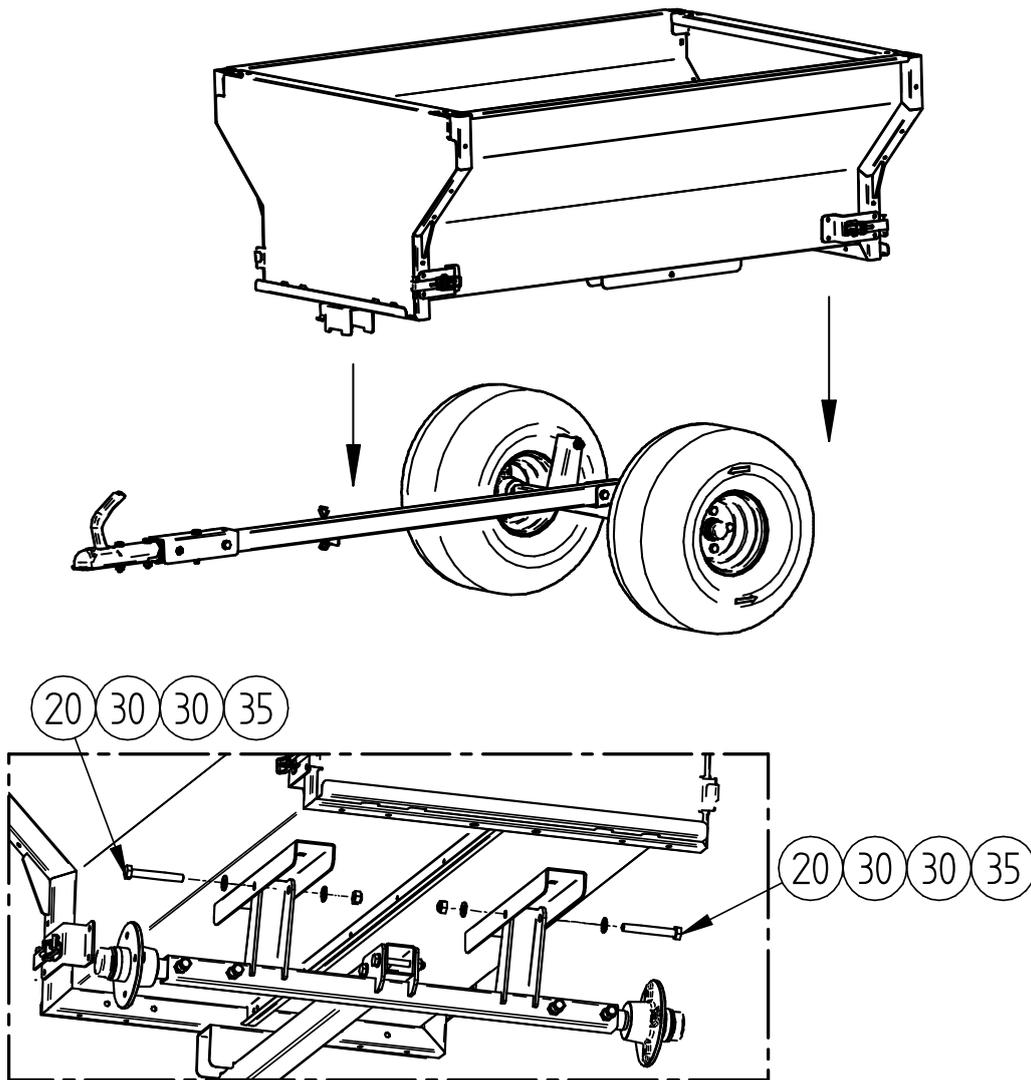
Step 11

Install coupling (Pos.11) and coupling adapter (Pos.12). For fastening use M10x80 bolts (Pos.19), Ø10 mm washers (Pos.29) and M10 nyloc nuts (Pos.34).



Step 12

Install cargo box to trailer frame. For fastening use M12x90 bolts (Pos.20), Ø12 mm washers (Pos.30) and M12 nyloc nuts (Pos.35).



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