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ATV TRAILER

FD-1200

Code 86.11000

Version Rev02 (30102026)



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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Iron Baltic OÜ

EC DECLARATION OF CONFORMITY

Manufactured by:	Iron Baltic OÜ
Address:	Joa tee 17, Vääna, Harku vald, 76903 Estonia
Product:	**Trailer**
Type:	**FD 1200**
Model:	**86.11000**

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, 05.04.2024



.....
Tiit Norak
Member of the Board

Iron Baltic OÜ
Joa tee 17
Vääna 76903
Estonia

tel (+372) 6533711
info@ironbaltic.ee
www.ironbaltic.com

INTRODUCTION

Thank you for choosing Iron Baltic product. This manual contains specifications for the trailer FD 1200 and 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 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 1200 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!
	After tilting the load, there may be an obstacle between the cargo box and ground, which may cause cargo box spontaneous lowering.
	Uneven load distribution may cause the load to move. Make sure that limbs do not get stuck between load and trailer!
	Read the manual before use!

PRODUCT DESCRIPTION

The Iron Baltic FLATBED DUMP TRAILER FD-1200 is a durable trailer that can be attached to the ATV or UTV and carry up to 1200 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. The four-wheeled tandem axle, combined with wide tires, gives the trailer excellent off-road capabilities, allowing you to easily move over stumps and ditches.

Flatbed trailer is designed for transporting various goods and materials. Thanks to the flat bottom, it can be used to transport pallets, for example. The side and end panels can be open and are easy to remove, which allows to load the trailer from the side also. As an option, the flatbed can be fitted with side extensions (86.5200), a log and IBC container transport kit (86.5300), watering pipe (91.1030) and PVC cover (86.5400). Flatbed box tilting is possible by assembling the trailer with box tilting mechanism (23.4000).

Standard equipment:

- Trailer
- Support leg
- 360° rotating hitch

Optional extras:

- Box tilting mechanism
- Side panel extensions
- Log and IBC container transport kit
- PVC cover
- Watering pipe
- Rear lights

Product	Trailer FD-1200
Model	86.11000
Dimensions	3500 mm x 1400 mm x 1050 mm
Flatbed dimensions	2000 x 1250 mm
Side and end panel height	350 mm
Load capacity	1200 kg
Weight	250 kg
Tires	22 x 11 – 8

Table 1: Trailer FD-1200 technical data

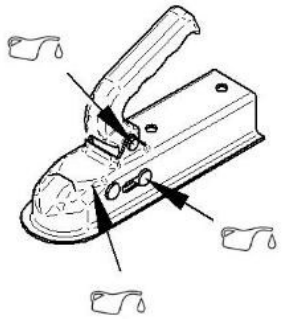
USER GUIDE

- Read the safety instructions before driving!
- Check tow coupling connection to the tow beam before ride.
- Before ride, make sure the trailer stand is up and secured.
- 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 recommended tire pressure is 1,5 bar). If needed change the tires. Use only tires specified by the trailer manufacturer.
- Before ride, check tension of the wheel bolts.
- Distribute the load on the trailer as evenly as possible, take into account maximum mass 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 20 km/h, or what the vehicle manufacturer recommends (the lower speed must be observed).
- Make sure that the box clamps are 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			●	●

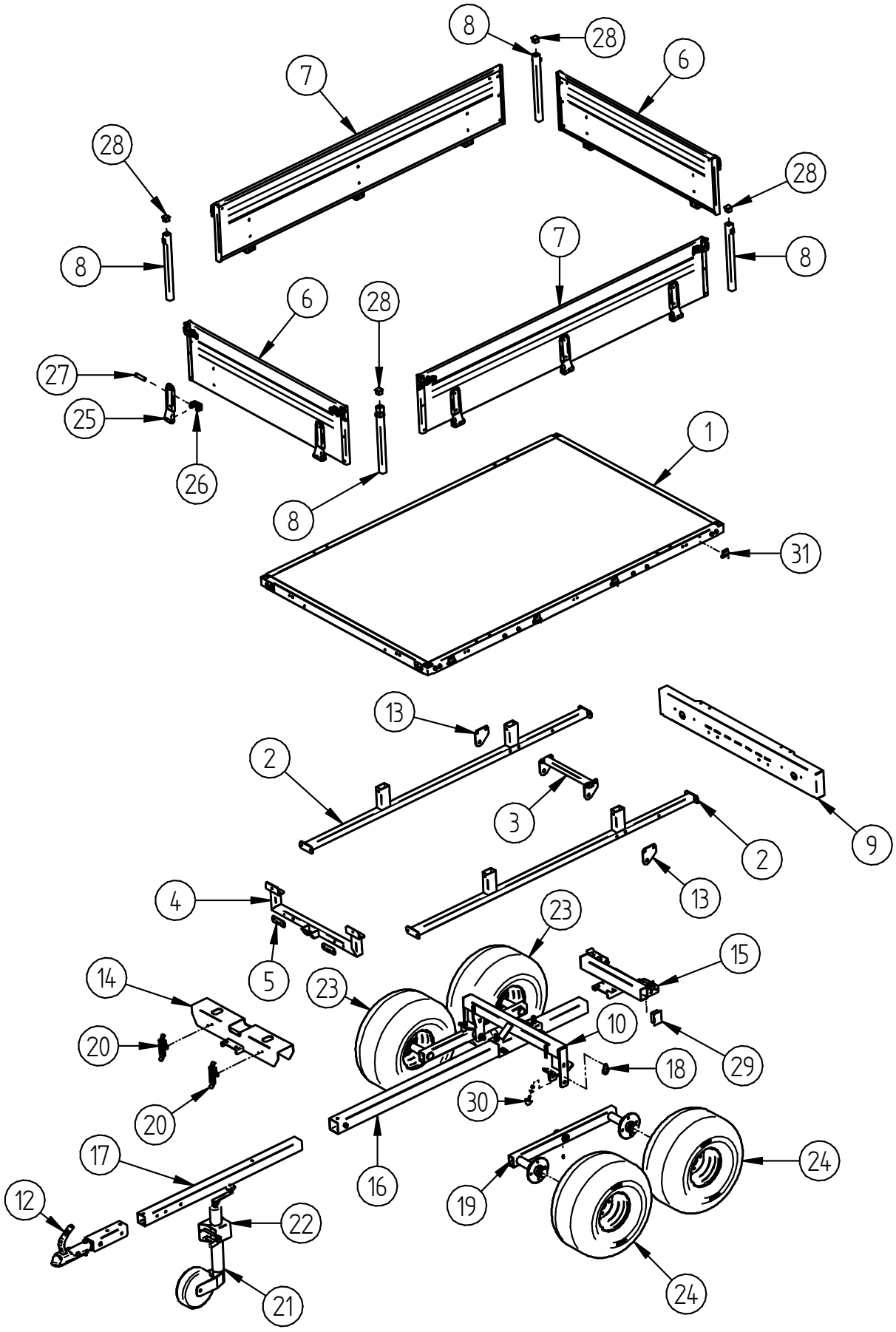
- Always wash the trailer after use. To remove most of the dirt, use running water. Usual car shampoo can be used for washing the trailer.
- Only change trailer tire on flat and hard surface, by placing jack stand under the vertical axle beam corner.
- If the tow coupling moves difficultly, add oil to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



SPECIFICATION

Pos.	Description	Code	Amount
1	Flatbed	86.5001S	1
2	Flatbed frame tube 1	86.5021K	2
3	Flatbed frame tube 2	86.5008K	1
4	Flatbed frame tube 3	86.5010K	1
5	Clamp hook plate	86.5016	2
6	End panel	86.5101K	2
7	Side panel	86.5102K	2
8	Corner post	86.5103K	4
9	Rear profile	86.5022	1
10	Axle	86.1001K	1
11	U-bolt 70x70 mm	86.1015	4
12	Tow coupling 1700	86.1050	1
13	Tilting plate	86.2010	2
14	Front carrier	86.2015K	1
15	Rear carrier	86.10002K	1
16	Frame tube	86.1003K	1
17	Drawbar	86.10011	1
18	Bolt fixing plate	23.1005	2
19	Swing arm	23.1040	2
20	Clamp	OT.10.04.020	2
21	Support wheel	OT.10.02.057	1
22	Support wheel bracket	OT.10.02.058	1
23	Wheel 22x11x8 (E4-106R) (right)	OT.10.03.141	2
24	Wheel 22x11x8 (E4-106R) (left)	OT.10.03.142	2
25	Hinge	OT.10.10.010	10
26	Hinge bracket	OT.10.10.011	10
27	Hinge pin		10
28	Tube cap 30x30	OT.25.00.009	4
29	Tube cap 70x50	OT.10.07.075	2
30	Rubber shock absorber Ø40x30xM8	OT.35.03.020	4
31	Lashing eye Ø7 mm	OT.56.00.020	8
32	Grease nipple M6	OT.17.00.005	2
33	Wheel bolt M12x1,5x25	OT.02.09.010	16
34	Bolt M6x16 DIN7991	OT.02.04.020	4
35	Bolt M8x20 DIN7991	OT.02.04.150	20
36	Bolt M8x60 DIN931	OT.02.01.015	4
37	Bolt M8x80 DIN931	OT.02.01.017	4
38	Bolt M10x70 DIN931	OT.02.01.046	4
39	Bolt M10x80 DIN931	OT.02.01.048	2
40	Bolt M10x85 DIN931	OT.02.01.049	4
41	Bolt M12x90 DIN931	OT.02.01.120	1
42	Bolt M16x100 DIN931	OT.02.01.150	2
43	Bolt M16x130 DIN931	OT.02.01.160	2
44	Bolt M6x16 DIN933	OT.02.02.050	38
45	Bolt M8x20 DIN933	OT.02.02.180	14
46	Bolt M12x30 DIN933	OT.02.02.390	6
47	Washer Ø6/15 SFS3738	OT.04.03.020	62
48	Washer Ø8/20 SFS3738	OT.04.03.030	68

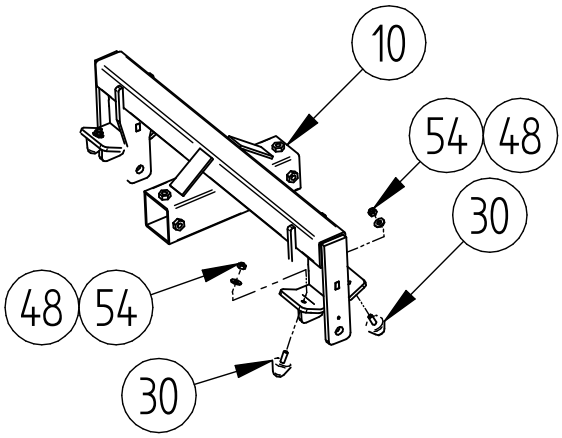
49	Washer Ø 10 DIN125	OT.04.01.040	28
50	Washer Ø 12 DIN125	OT.04.01.050	2
51	Washer Ø 16 DIN125	OT.04.01.060	6
52	Nut M12 DIN934	OT.03.01.050	6
53	Nyloc nut M6 DIN985	OT.03.02.030	40
54	Nyloc nut M8 DIN985	OT.03.02.040	46
55	Nyloc nut M10 DIN985	OT.03.02.050	18
56	Nyloc nut M12 DIN985	OT.03.02.060	1
57	Nyloc nut M16 DIN985	OT.03.02.070	4


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ASSEMBLING GUIDE

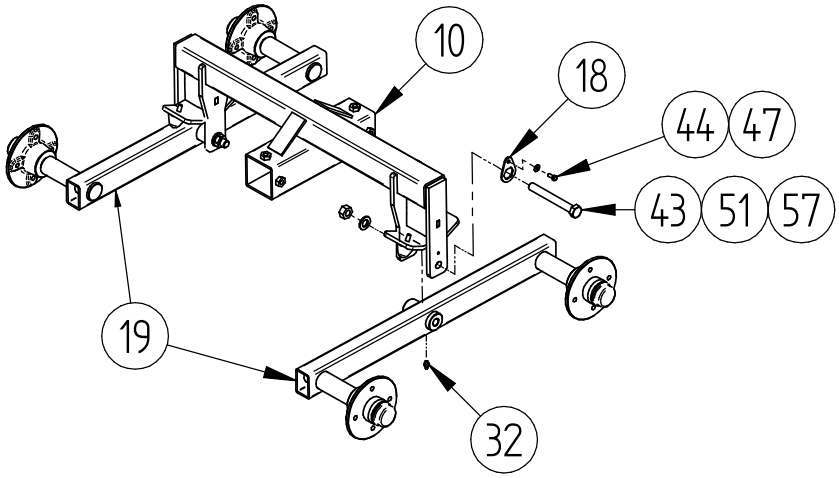
Step 1

Install rubber shock absorbers (Pos.3) to the trailer axle (Pos.1).
For fastening use Ø8 mm washer (Pos.48) and M8 nyloc nut (Pos.54).



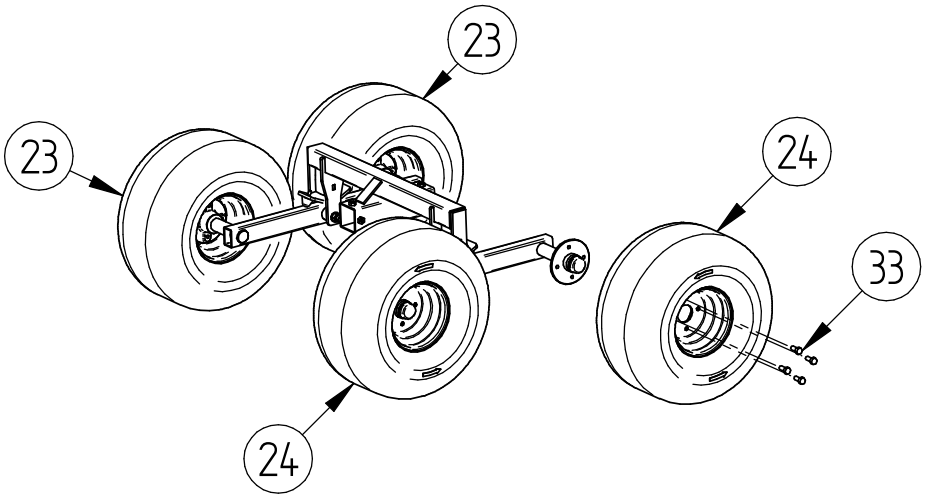
Step 2

Install swing arms (Pos.19) to axle beam (Pos.10). Make sure that the grease nipple (Pos.32) of the swing arm is facing downwards. For fastening use M16x130 bolt (Pos.43), Ø16 mm washer (Pos.51) and M16 nyloc nut (Pos.57). Before tightening the swing-arm mounting bolt, fix it position with bolt fixing plate (Pos.18) by attaching it to the axle with M6x16 bolt (Pos.44) and Ø6 mm washer (Pos.47).



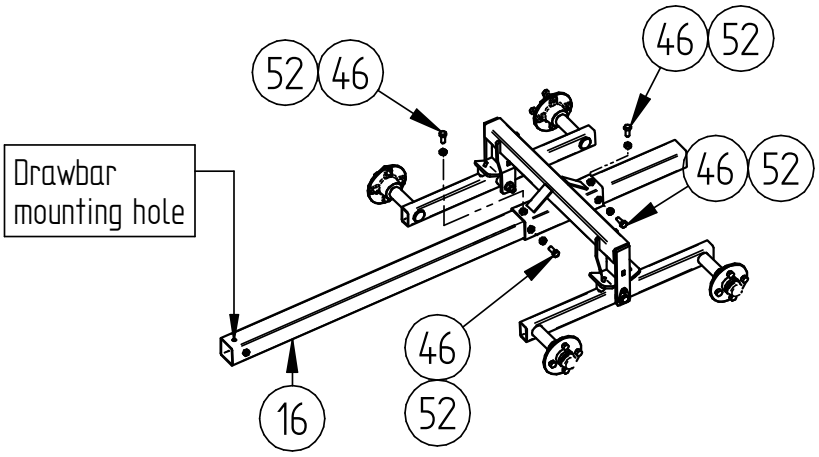
Step 3

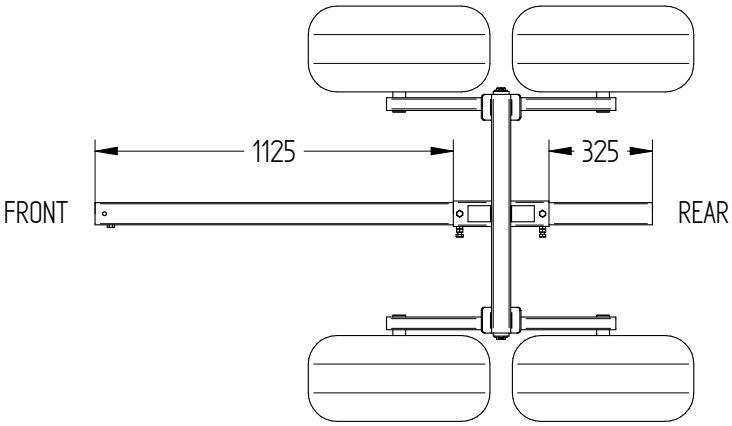
Install wheels (Pos.23 and Pos.24). Watch tire direction and that the tire valve is facing outside. For fastening use wheel bolts (Pos.33)



Step 4

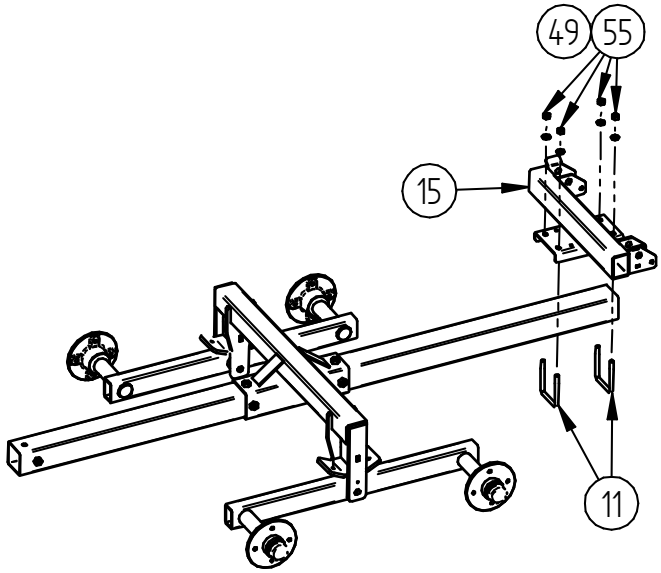
Install frame tube (Pos.16) to axle beam. Make sure that the drawbar mounting hole in the frame tube is vertical to ground and is on the front side of trailer! Place the axle beam 1125mm from the front edge of the frame tube. Secure frame tube position with M12x30 bolts (Pos.46) and lock the bolts with M12 nuts (Pos.52).

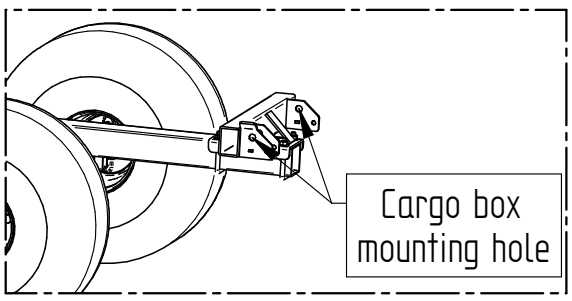




Step 5

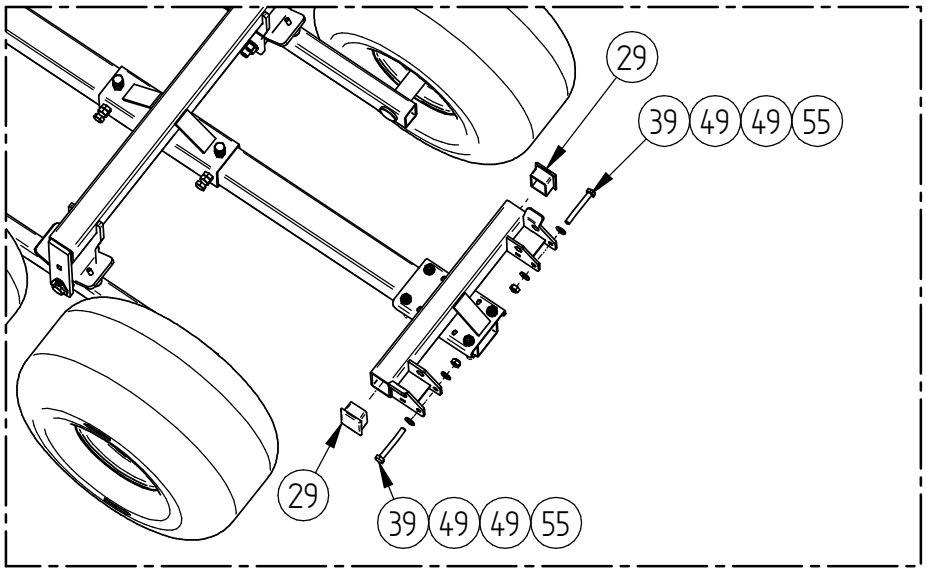
Install rear carrier (Pos.15) to frame tube so that the edge of the carrier is equal to edge of the frame tube. Make sure that cargo box mounting holes are on the rear side of the trailer. For fastening use 70x70 U-bolts (Pos.11), Ø10 mm washers (Pos.49) and M10 nyloc nuts (Pos.55).





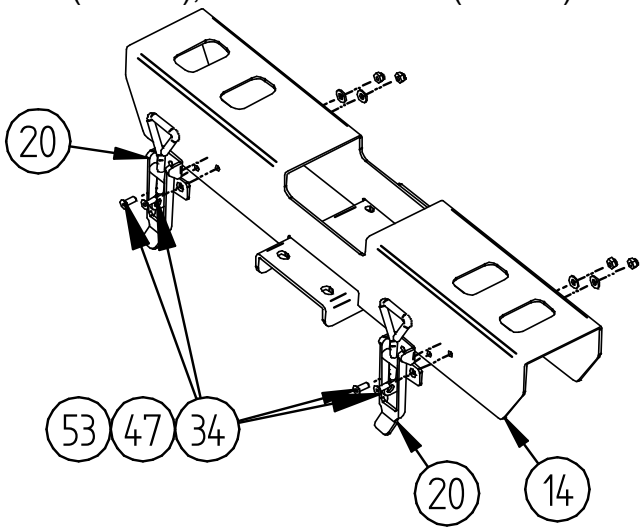
Step 6

Install tube caps (Pos.29) and M10x80 bolts (Pos.39), Ø10 mm washers (Pos.49) and M10 nyloc nuts (Pos.55) to the rear carrier to limit the tilt angle of the cargo box.



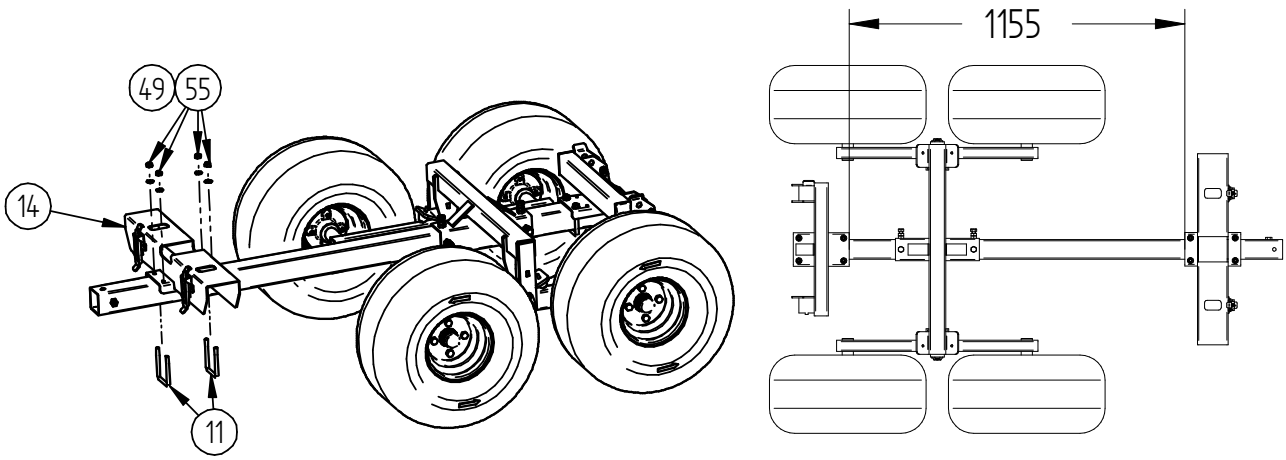
Step 7

Install clamps (Pos.20) to the front carrier (Pos.14). For fastening use M6x16 bolts (Pos.34), Ø6 mm washers (Pos.47) and M6 nyloc nuts (Pos.53).



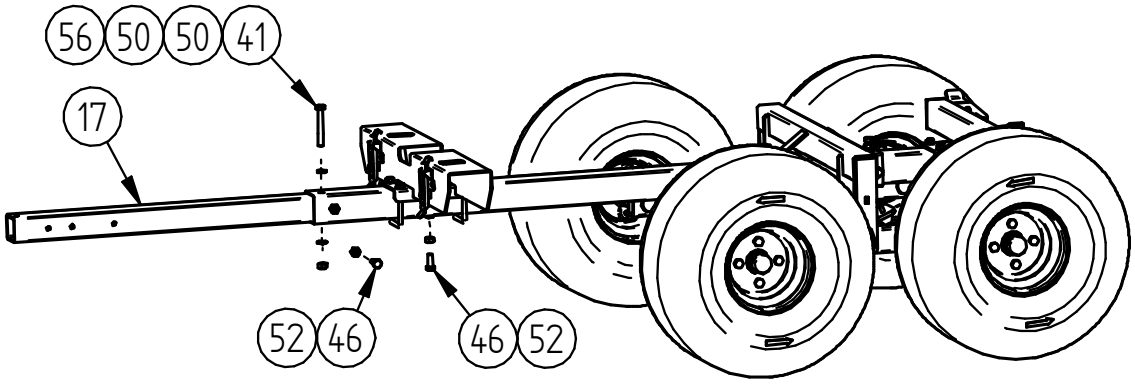
Step 8

Install cargo box front carrier (Pos.14) to the trailer frame tube. The correct front carrier position is 1155 mm from the front edge of the rear carrier. For fastening use 70x70 U-bolts (Pos.11), Ø10 mm washers (Pos.49) and M10 nyloc nuts (Pos.55).



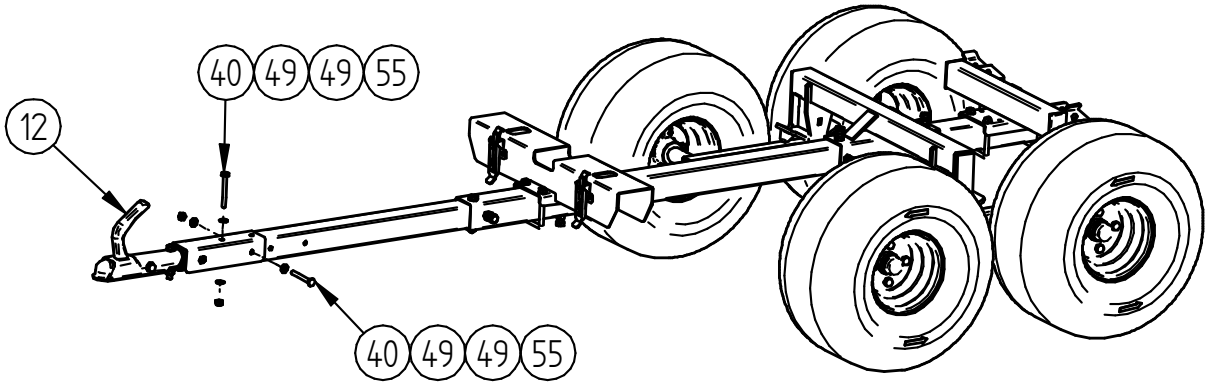
Step 9

Install drawbar (Pos.17). For fastening use M12x90 bolt (Pos.41), Ø12 mm washers (Pos.50) and M12 nyloc nut (Pos.56). Then tighten the M12x30 bolts (Pos.46) and lock the bolt with the M12 nuts (Pos.52).



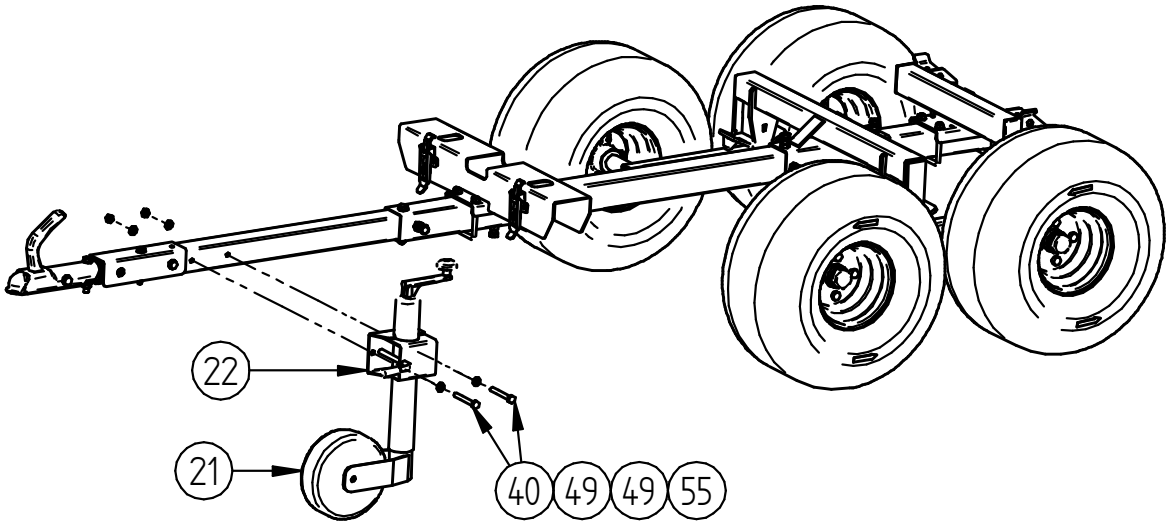
Step 10

Install tow coupling (Pos.12) For fastening use M10x85 bolts (Pos.40), Ø10 mm washers (Pos.49) and M10 nyloc nuts (Pos.55).



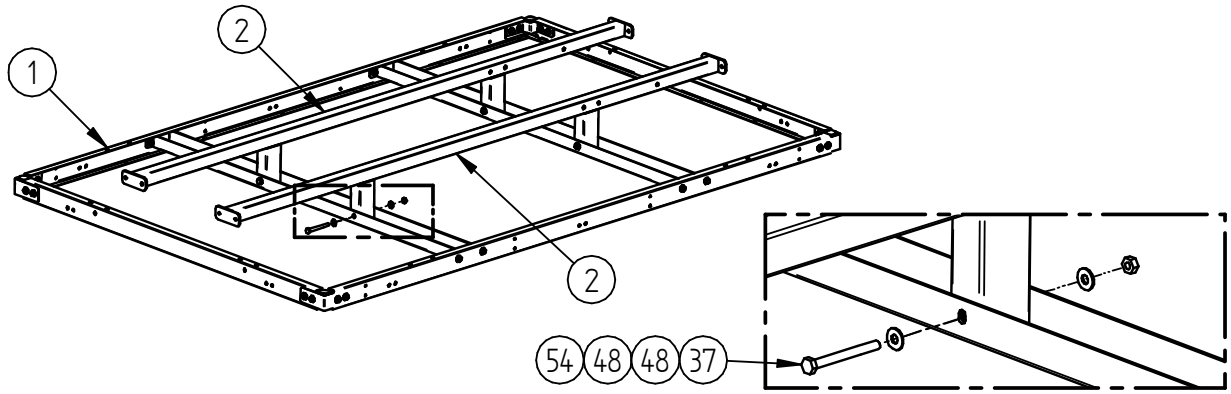
Step 11

Install support wheel bracket (Pos.22) and support wheel (Pos.21). For fastening use M10x85 bolts (Pos.40), Ø10 mm washers (Pos.49) and M10 nyloc nuts (Pos.55).



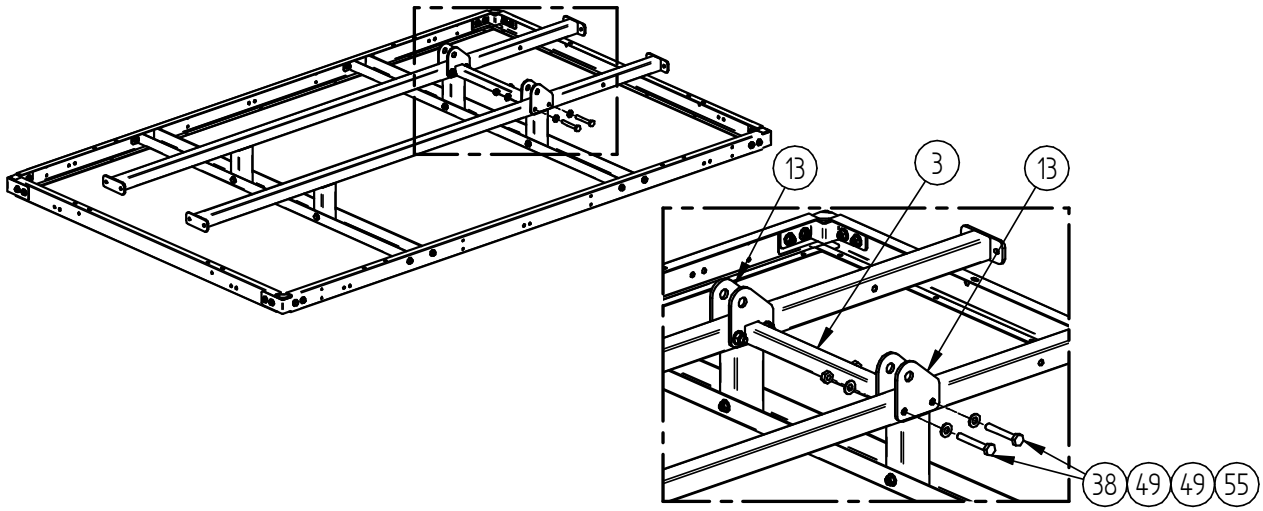
Step 12

Install base frame middle tubes (Pos.2) to flatbed (Pos.1). For fastening use M8x80 bolts (Pos.37), Ø8 mm washers (Pos.48) and M8 nyloc nuts (Pos.54). NB! Do not tighten bolts!



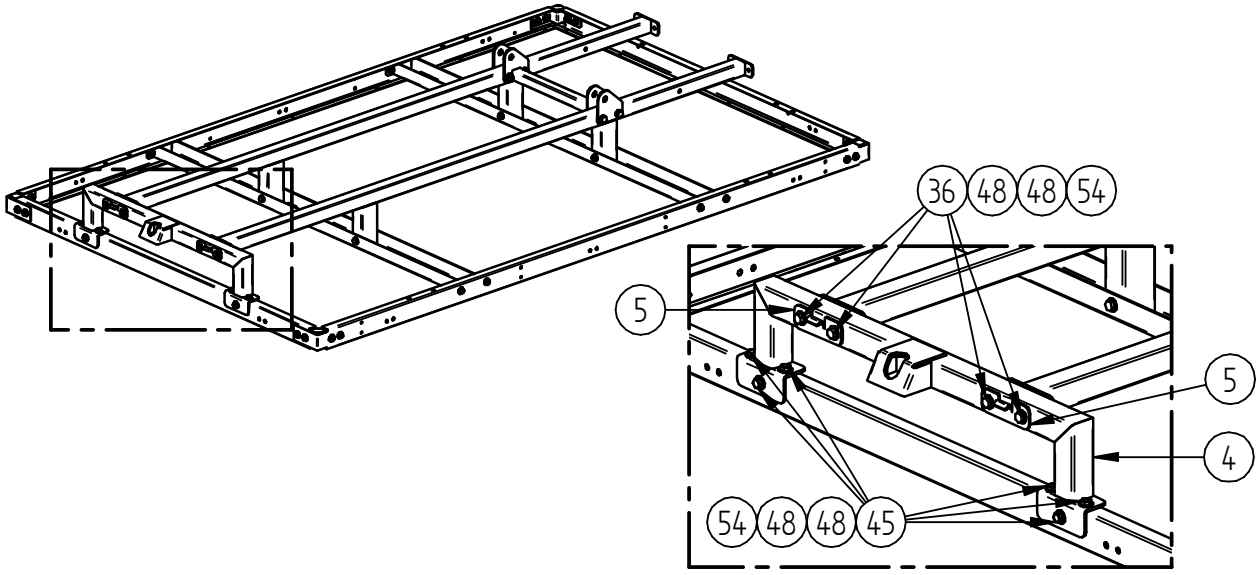
Step 13

Install base frame cross tube (Pos.3) and tilting plates (Pos.13). For fastening use M10x70 bolts (Pos.38), Ø10 mm washers (Pos.49) and M10 nyloc nuts (Pos.55). NB! Do not tighten the bolts!

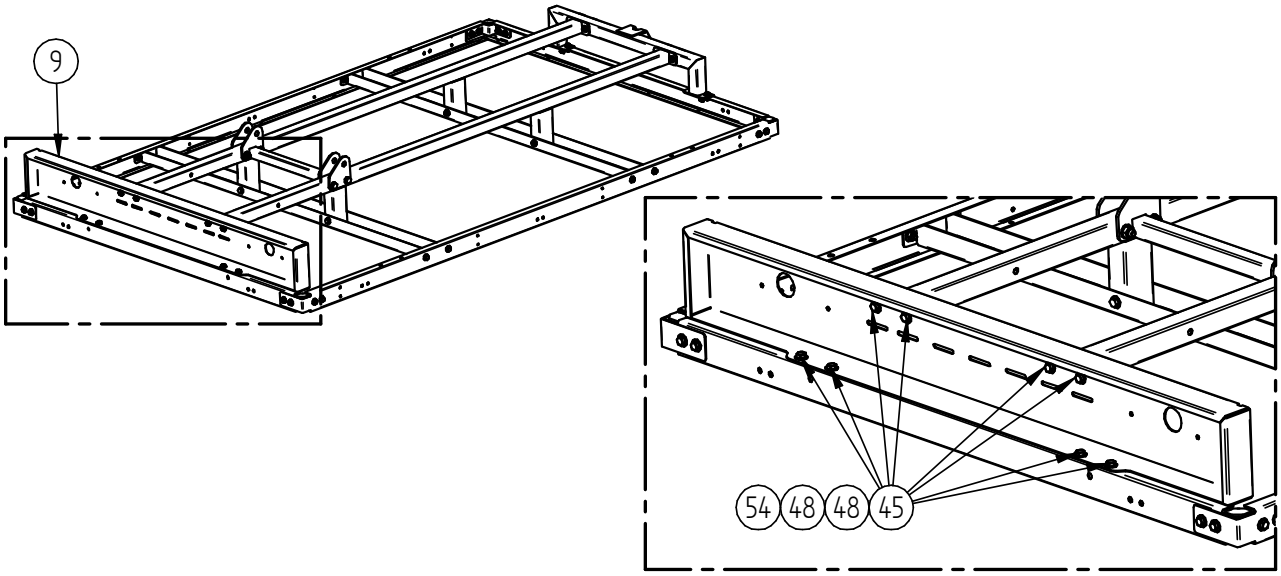


Step 14

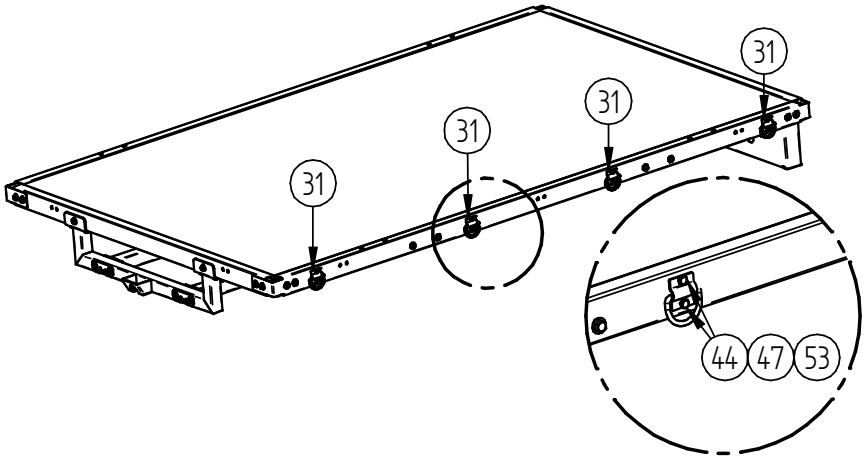
Install base frame front tube (Pos.4) and clamp hook plates (Pos.5). For fastening use M8x20 bolts (Pos.45), M8x60 bolts (Pos.36), Ø8 mm washers (Pos.48) and M8 nyloc nuts (Pos.54). NB! Do not tighten the bolts!



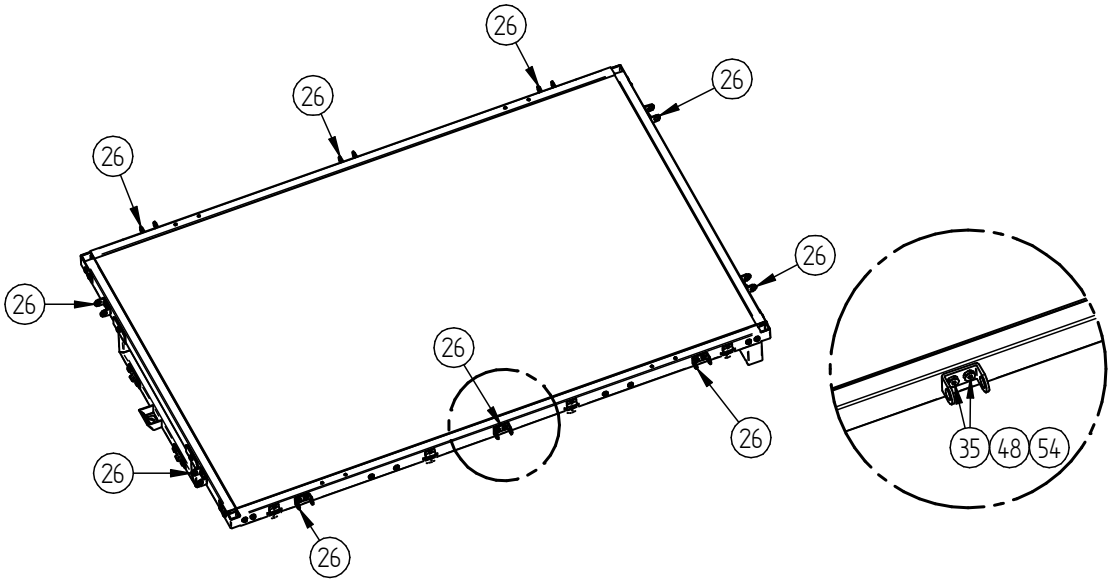
Step 15 Install rear profile (Pos.9). For fastening use M8x20 bolts (Pos.45), Ø8 mm washers (Pos.48) and M8 nyloc nuts (Pos.54). NB! Also, tighten all the bolts described in previous steps!



Step 16 Install lashing eyes (Pos.31). For fastening use M6x16 bolts (Pos.44), Ø6 mm washers (Pos.47) and M6 nyloc nuts (Pos.53).

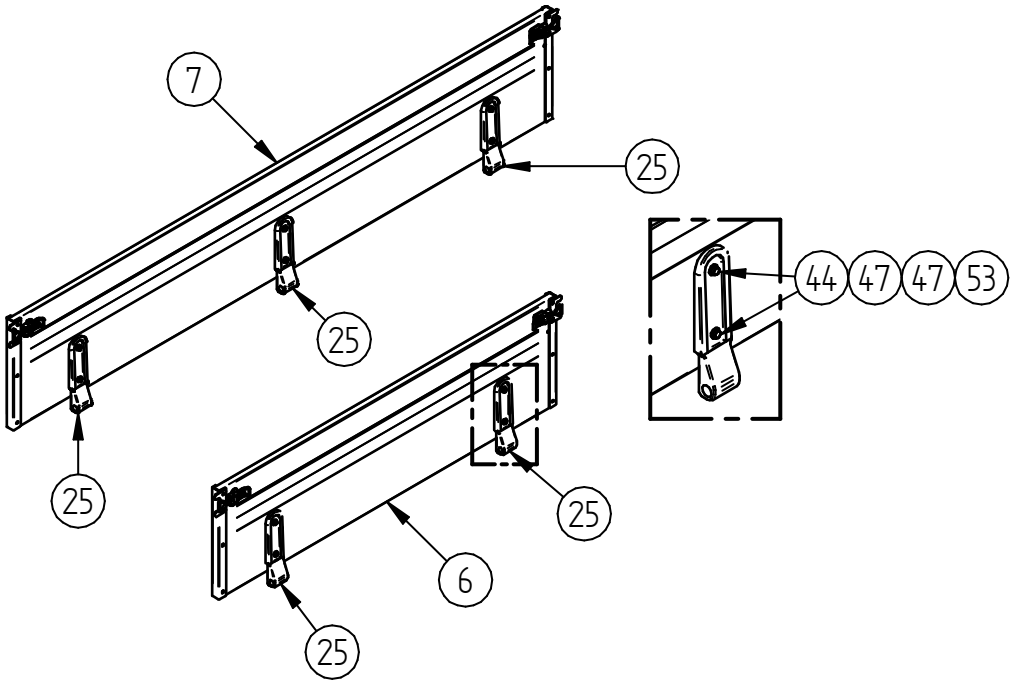


Step 17 Install hinge brackets (Pos.26) to the flatbed. For fastening use M8x20 bolts (Pos.35), Ø8 mm washers (Pos.48) and M8 nyloc nuts (Pos.54).



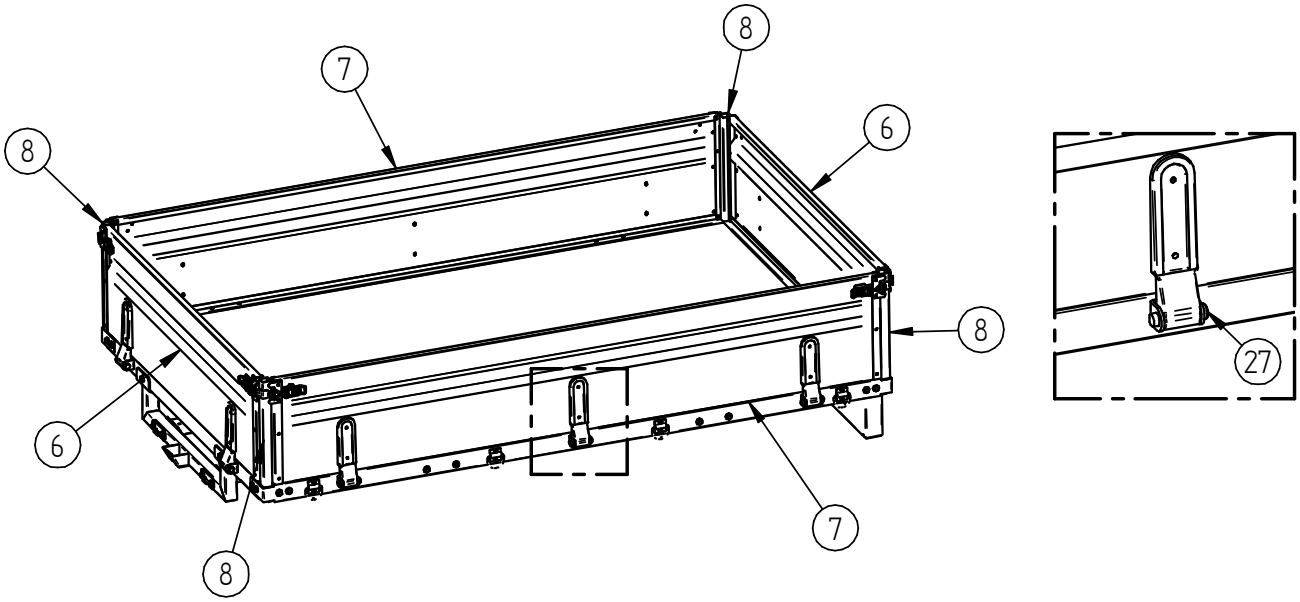
Step 18

Install hinges (Pos.25) to end panels (Pos.6) and side panels (Pos.7). For fastening use M6x16 bolts (Pos.44), Ø6 mm washers (Pos.47) and M6 nyloc nuts (Pos.53). NB! Do not tighten the bolts completely!

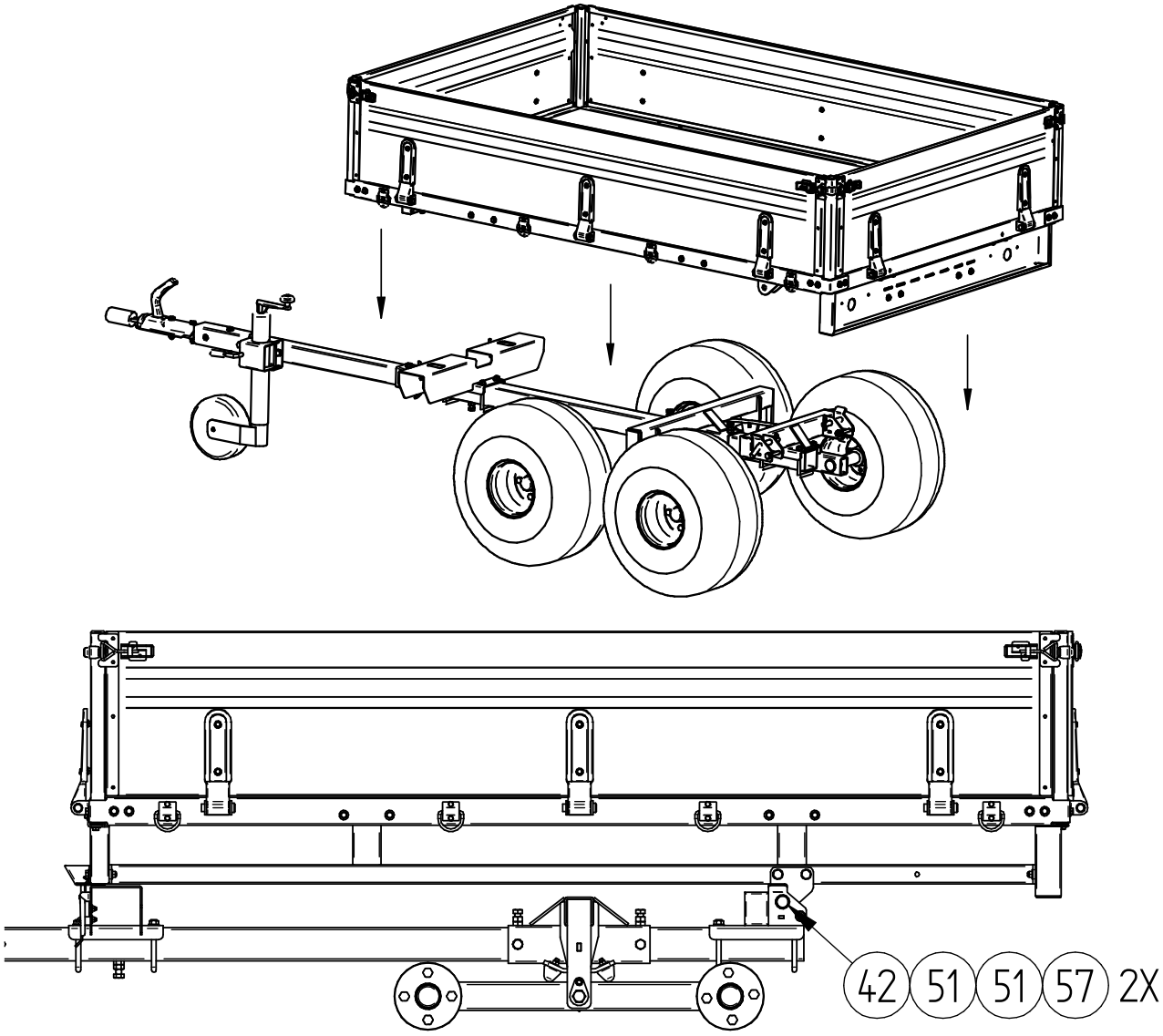


Step 19

Install end panels (Pos.6), side panels (Pos.7) and corner posts (Pos.8) to flatbed. Insert corner posts in to the holes in flatbed corners and fasten the side panels with pin (Pos.27). Adjust hinges and latches if necessary. Tighten the hinge bolts described in the previous step.



Step 20 Install the flatbed. For fastening use M16x100 bolts (Pos.42), Ø16 mm washers (Pos.51) and M16 nyloc nuts (Pos.57).



IRON BALTIC OÜ
Joa tee 17, Vääna, Harku vald, 76903
Estonia, Europe

+372 6 533 711
sales@ironbaltic.com

www.ironbaltic.com
www.facebook.com/ironbaltic
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