

IRON BALTIC

SAND SPREADER

G2-500 PRO

Code 52.5000US

Version 16012024

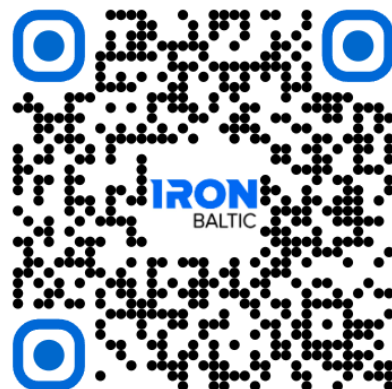


Keep this manual for future reference!

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: **Sand spreader**
Type: **G2-500 PRO**
Model: **52.5000US**

Serial number: 52.5000US.0001 – 52.5000US.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: 25.07.2019



.....
Tiit Norak
Member of the Board

INTRODUCTION

You have purchased a towable sand spreader that is an ideal equipment for combating slippery streets, roads and squares.

The vehicle together with the sand spreader 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.

This manual provides instructions on the configuration, safe operation and maintenance of the sand spreader.

NOTE: the photos and illustrations contained in the manual do not necessarily represent actual models or accessories, but are provided only for reference and 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. Read carefully and understand the safety instructions prior to using the vehicle and the sand spreader. Strictly follow all the instructions and require adherence to them from all persons using the machine!

Keep 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 or the sand spreader. Never allow adult persons to operate the vehicle or the sand spreader, if they have not received the proper training.
3. Neither the vehicle nor the sand spreader can be used, while being drunk or under the influence of the drugs that affect the perception or reaction.



PROHIBITED ACTIONS

- Never operate the sand spreader without all the protective parts properly installed.
- Never touch any moving or rotating part, when operating the sand spreader.
- Never attempt to perform any adjustment operations, while operating the machine.
- Never carry any passenger on the sand spreader.
- Never operate the sand spreader on too steep slopes.
- Never operate the sand spreader without all safety devices installed and properly used.
- Do not operate the sand spreader before you have carefully read the whole operation manual.
- Never operate the sand spreader in the dark, unless you use artificial lighting.
- Never climb on the sand spreader.
- **Never modify any accessory or any part without the written approval of the manufacturer.**

MANDATORY ACTIONS

- Maintain the sand spreader regularly and check the machine every time before you start operating it.
- Reduce the speed of the vehicle, when working on a hillside or uneven terrain.
- Follow all the instructions of the vehicle manufacturer.
- Always use the individual protective gear required for each kind of equipment (goggles, ear protectors, protective clothing).
- Always check that all components are properly installed.
- Check that the warning labels are in good condition and replace the damaged labels with new ones if necessary.
- Keep your hands and feet away from the rotating parts.
- Before transporting the sand spreader, verify that the wheel locks are in the transport position.

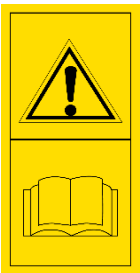
WARNING LABELS

The warning labels shall be present on your sand spreader. If any of these labels is missing or damaged, contact the dealer of the sand spreader to replace the missing labels with new ones.

Meaning of warning labels



Read the instructions in the instruction manual about wearing protective clothing, protective gloves, safety goggles, ear protectors, protective footwear and mask.



Prior to installation or operation, read the instruction manual and make sure you have fully understood the information.



Danger zone! Danger of collision! To ensure safety, consider the overall dimensions of the machine, its working envelope and travel speed.



While working, keep your hands, feet and clothing away from the rotating parts.
Never attempt to install or dismantle the drive chain without first reading the user manual.



While working, keep your hands away from the moving parts.
Never attempt to remove any obstacles while working!

OPERATOR INSTRUCTIONS

Note

Prior to operating the sand spreader, carefully read the instruction manual for the vehicle (ATV/UTV)!



PREPARATION

1. The manual for initial assembly is available in chapter INITIAL ASSEMBLY.
2. Never attempt to perform any adjustment operations, while operating the machine.
3. Never attempt to operate the sand spreader, if the required covers, plates or other safety devices are not installed.
4. Always use the individual protective gear required for each kind of equipment (goggles, ear protectors, mask).
5. Always ensure the safe road stability of the vehicle, using for that purpose suitable accessories (chains, counterweights etc.).
6. Always check that all components are properly installed.
7. Never modify any accessory or any part without the written approval of the manufacturer.

OPERATOR INSTRUCTIONS

1. Never place your hand or feet close to, under or between any rotating parts.
2. When working on or crossing gravel roads, pavements or motorways, be extremely careful. Consider the potential traffic hazards. Never take on board any passengers.
3. After collision with foreign objects, thoroughly inspect the sand spreader with a view to finding possible damages and eliminate damages before proceeding with the work.
4. Leaving the vehicle, take all possible measures of safety. Set the gear to neutral, activate the parking brake, stop the engine and remove the ignition key.
5. Never operate the sand spreader moving along the slope, work with it moving downhill. When operating the unit on slopes, be extremely cautious.
6. Keep unauthorised persons away from the operating area.
7. Never operate the unit at a high speed on a slippery surface. Be cautious, when reversing.
8. Never take on board any passengers.
9. Never use the sand spreader, if the visibility or illumination are not sufficient.

OPERATION

1. Make sure that the wheel locks are in working position (spreading shaft is rotating at moving).
2. Make sure that nothing prevents the moving parts from operation.
3. **Select the travel speed suitable to the circumstances.**
4. To manoeuvre, set the locks of the sand spreader wheels into transport position (spreading shaft is not rotating during moving forward). Make sure that you have sufficiently much space for manoeuvring and will not put anybody in danger!

Note

In the working position, do not travel faster than 10 km/h.

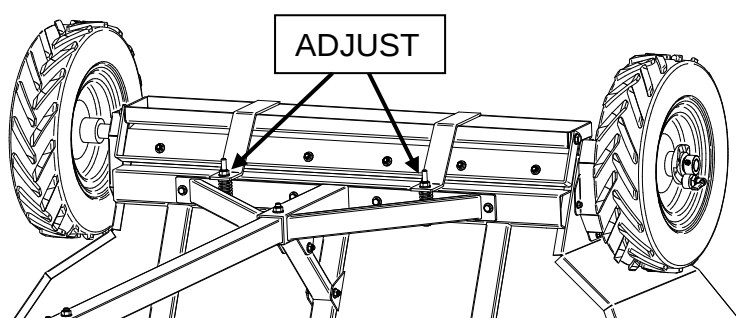
In the transport position, do not travel faster than 15 km/h.

Never operate on a slope with a grade of over 10%.



CONTROL OF THE SPREADING QUANTITY

Spreading quantity is controlled by adjusting the tension of the springs. Tighten bolts to increase the spreading quantity, loosen bolts to decrease the spreading quantity.



MAINTENANCE

Note

Prior to the maintenance, assembly or disassembly of the sand spreader:

- Activate the vehicle parking brake.
- Stop the vehicle engine, remove the ignition key.



MAINTENANCE SCHEDULE

Maintenance schedule				
Maintenance activity:	Daily	Weekly	Monthly	Seasonally
Visual inspection of part fastening	•	•	•	•
Lubricating the shaft bearings			•	•
Checking tyre pressure		•	•	•
Checking the chain				•
Checking condition of all connecting parts		•	•	•
Inspection of warning labels		•	•	•
Inspection of safety parts		•	•	•
Checking metal parts wear rate				•
Checking locks wear rate / condition				•
Checking the rubber details			•	•

TYRE PRESSURE

Check the air pressure in the tyres and adjust it to a level of 30 psi / 2.1 bar.

WEAR OF RUBBER DETAILS

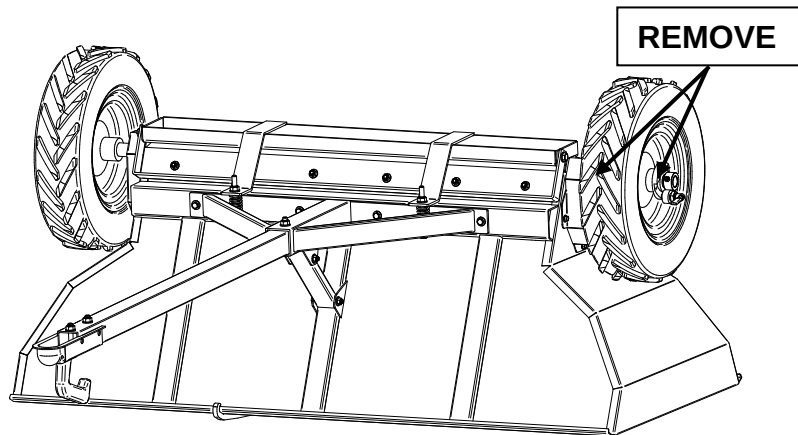
From time to time, check the rubber details wear rate. As appropriate, replace the excessively worn rubbers.

LUBRICATION

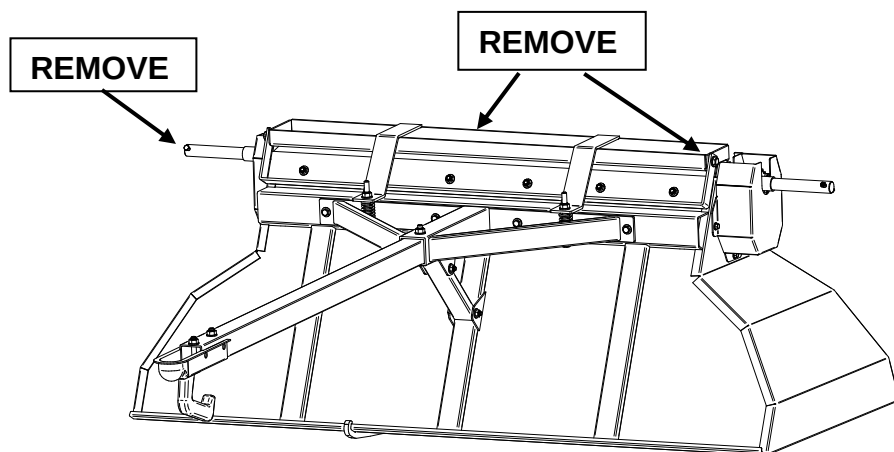
Lubricate the shaft bearings every 40 operating hours via the grease fitting by using the lubricant for bearings

REPLACING THE RUBBER DETAILS

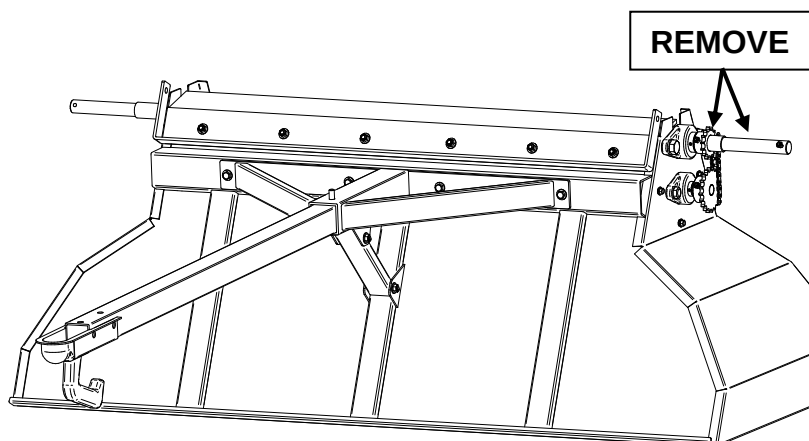
1. Turn the sand spreader upside down.
2. Remove the wheel locks and wheels from the sand spreader.



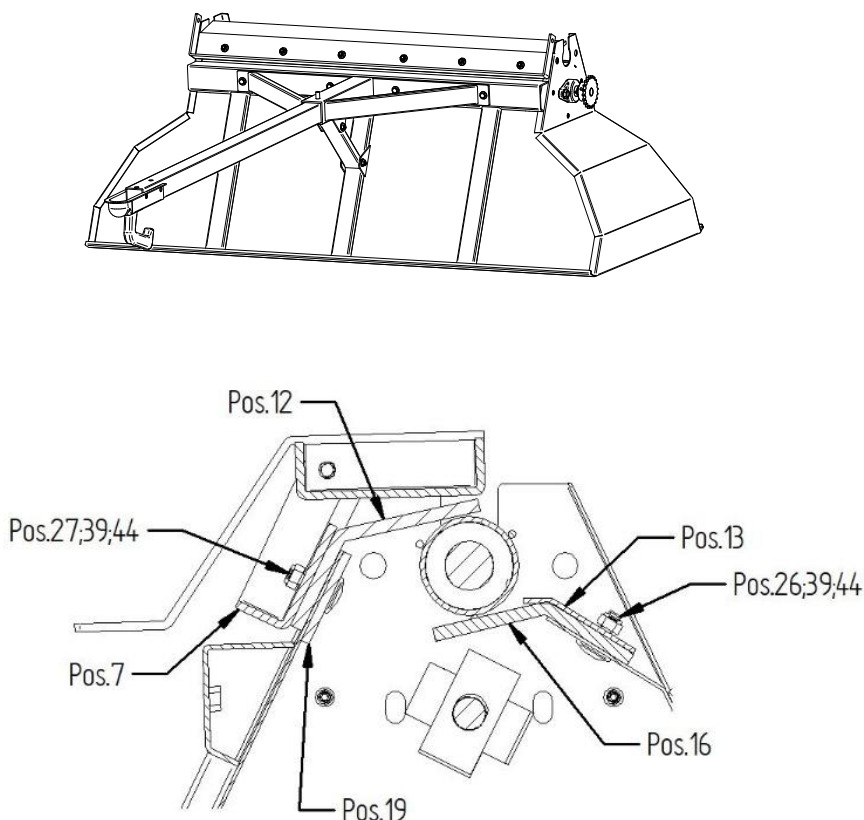
3. Remove the left and right cover and the regulator of the spreading quantity.



4. Remove the drive chain and the spreader shaft. Gears should not be removed.



5. Replace the rubber details. The figure shows the location of rubber details and fasteners.



6. Assemble the sand spreader in reverse order.

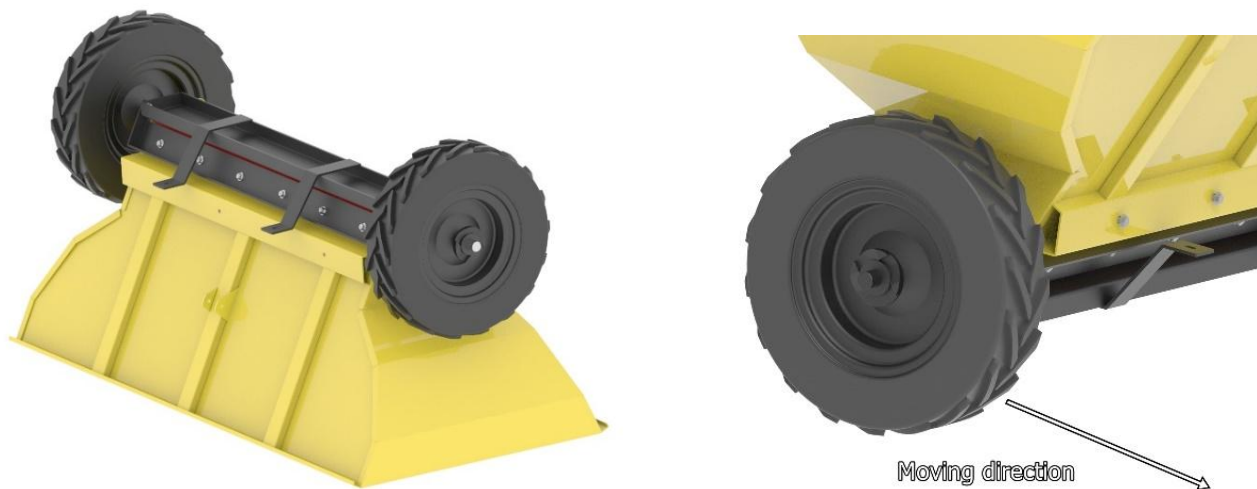
STORAGE

1. Clean the sand spreader thoroughly.
2. Paint over all those parts, on which the paint coating is worn out.
3. Write down and order the replaceable parts from the dealer/manufacturer.
4. Follow the instructions in the section about lubrication.
5. Store the sand spreader in a dry place.

INITIAL ASSEMBLY

Step 1

Assemble the wheels. Tyre pattern must run towards moving/pulling the sand spreader.



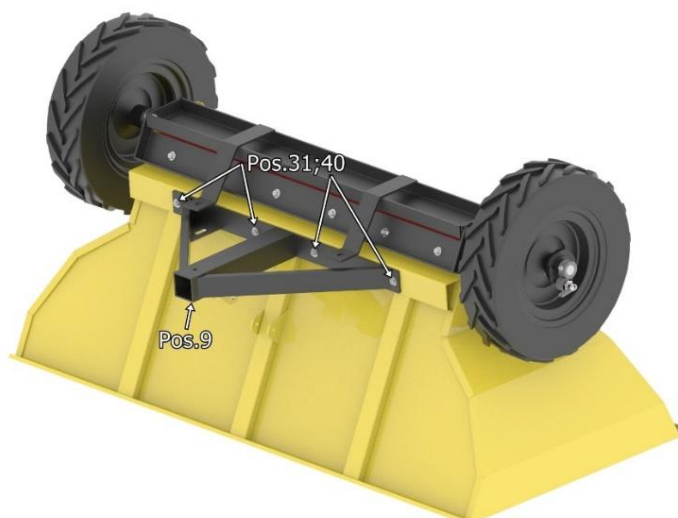
Step 2

Install the locks.



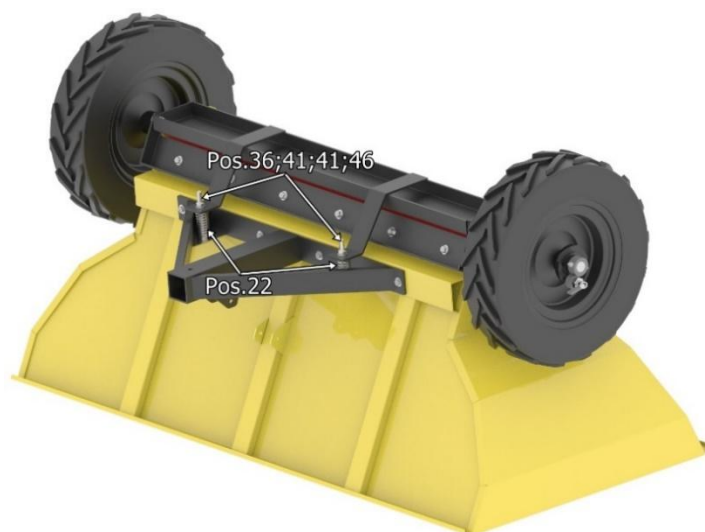
Step 3

Install the towing frame. Do not tighten the bolts!



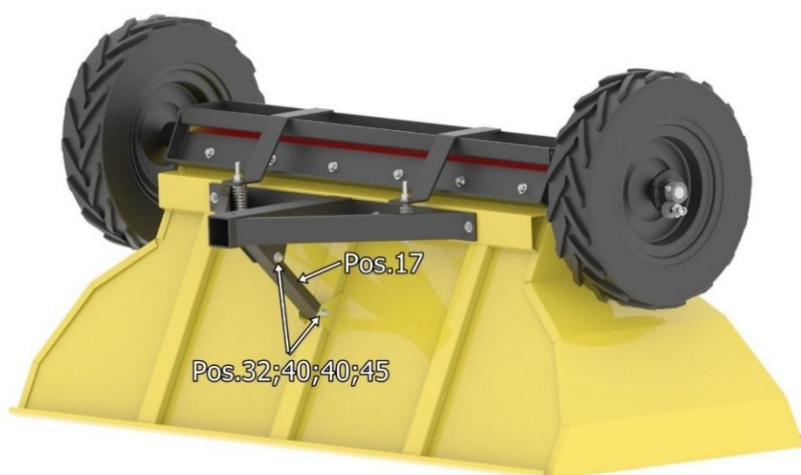
Step 4

Install the compression springs between the towing frame and the dispenser levers. Tighten the bolts!



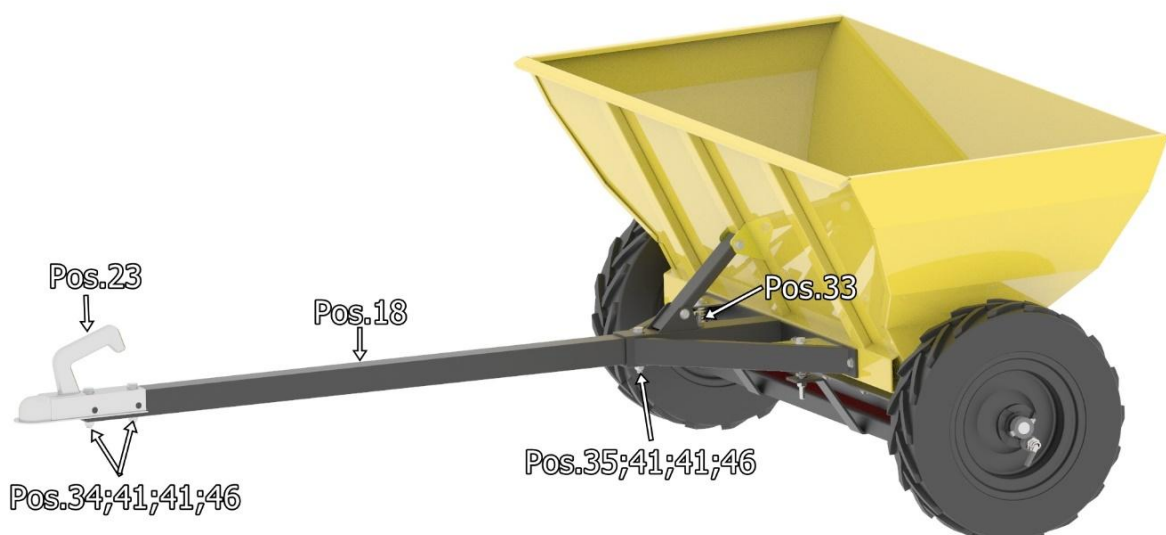
Step 5

Install the support tube of the towing frame.



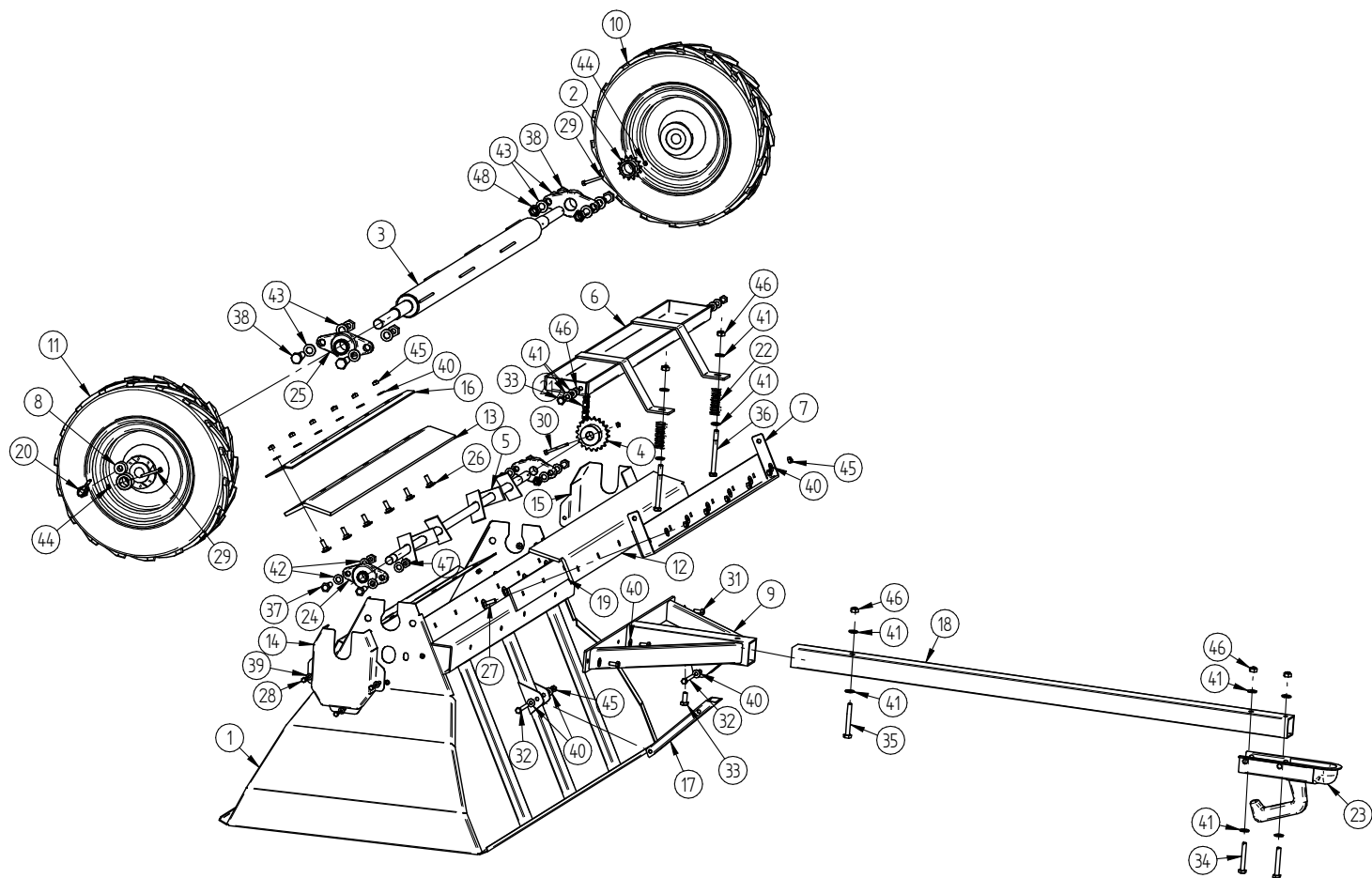
Step 6

Install the tow bar and the coupling.



SPECIFICATION

Pos.	Description	Code	Amount
1	Hopper of the sand spreader	52.5001K	1
2	Sprocket (smaller)	52.5005	1
3	Drive shaft	52.5006K	1
4	Sprocket (bigger)	52.5010	1
5	Mixer shaft	52.5011K	1
6	Spread dispenser	52.5013K	1
7	Dispenser holder	52.5015	1
8	Lock holder	52.5017K	2
9	Towing frame	52.5023K	1
10	Right wheel	52.5027K	1
11	Left wheel	52.5028K	1
12	Front rubber	52.5029	1
13	Rear rubber	52.5030	1
14	Bearing guard, left	52.5031	1
15	Chain guard, right	52.5032	1
16	Rear tyre support	52.5035	1
17	Towing frame support	52.5036	1
18	Tow bar	52.5037	1
19	Reinforcement bar	52.5038	1
20	Lock	OT.51.01.010	2
21	Chain/lock ISO 08B-1	OT.31.00.004	1
22	Spring 3.2x25x95	OT.10.04.024	2
23	Coupling 2"	OT.10.02.025	1
24	Bearing bracket UCFL 204	OT.31.00.006	2
25	Bearing bracket UCFL 206	OT.31.00.007	2
26	Carriage bolt M8x25 DIN603	OT.02.05.060	6
27	Carriage bolt M8x30 DIN603	OT.02.05.061	6
28	Bolt M6x20 DIN933	OT.02.02.060	6
29	Bolt M6x50 DIN933	OT.02.02.120	3
30	Bolt M6x60 DIN933	OT.02.02.140	1
31	Bolt M8x20 DIN933	OT.02.02.180	4
32	Bolt M8x70 DIN933	OT.02.02.260	2
33	Bolt M10x25 DIN933	OT.02.02.317	3
34	Bolt M10x70 DIN933	OT.02.02.350	2
35	Bolt M10x80 DIN931	OT.02.01.048	1
36	Bolt M10x110 DIN933	OT.02.02.358	2
37	Bolt M12x35 DIN933	OT.02.02.400	4
38	Bolt M16x40 DIN933	OT.02.02.640	4
39	Washer Ø 6/15 SFS3738	OT.04.03.020	6
40	Washer Ø 8/20 SFS3738	OT.04.03.030	20
41	Washer M10 DIN125	OT.04.01.040	14
42	Washer M12 DIN125	OT.04.01.050	8
43	Washer M16 DIN125	OT.04.01.060	8
44	Nyloc nut M6 DIN985	OT.03.02.030	4
45	Nyloc nut M8 DIN985	OT.03.02.040	14
46	Nyloc nut M10 DIN985	OT.03.02.050	7
47	Nyloc nut M12 DIN985	OT.03.02.060	4
48	Nyloc nut M16 DIN985	OT.03.02.070	4



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