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MID MOUNT
V-PLOW SYSTEM G2

Code 34.2200 / 34.2900

Version 29012024



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:	Põldmäe tee 1, Vatsla 76915
Product:	**Mid mount V-plow system Gen 2**
Type:	**34.3400 / 34.3600**
Model:	**34.2000 / 34.3000 / 34.4300 / 34.4400**

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: 01.09.2019

.....
Tiit Norak
Member of the Board

Iron Baltic OÜ
Põldmäe tee 1
Vatsla 76915
Estonia

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

INTRODUCTION

Thank you for choosing the product by Iron Baltic. This manual provides instructions on the assembly and safe operation of the mid-mount V-Plough. This product is designed for pushing snow, sand, gravel, soil and other solid materials. The non-intended use of the plow may cause economic loss and cause injuries, hence it is very important that the person who uses the product, reads this manual carefully and uses the product accordingly. Any misuse of the product releases the manufacturer from the responsibility for occurred damage and compensation of costs.

NOTE: Photos and drawings in this manual may not necessarily depict the actual models of plough 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 plough, 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!



Your plough and hardware were designed with safety in mind. In order to protect you and your ATV, certain parts of the blade and/or hardware are designed to fail when equipment is over-stressed. For this reason, push tubes, blade hinges, mounting brackets, and clevis pins are not covered by warranty.

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 unnecessary accidents and follow the safety instructions given below.

TRAINING



1. Read the safety instructions, terms and conditions of use carefully. Make sure that you have the potential to safely use both the vehicle and plough.
2. Never allow children to use the vehicle or plough. Never allow adults to use the vehicle or plough unless they have received appropriate instruction.
3. The vehicle or plough should not be used when intoxicated or under the influence of drugs which may affect perception or reactions.
4. Make sure that there are no persons, especially infants, or animals in the equipment's operating area.

PROHIBITIONS

- Never operate the vehicle on slopes greater than 10° with the plough installed.
- Never use the plough unless all of the parts are correctly installed.
- Never use the plough before you have carefully read the entire user manual.
- Never exceed a speed of 10 km/h when transporting the plough.
- Never exceed a speed of 5km/h when ploughing.
- Never use the plow in the dark, unless you are using artificial lighting.
- Never stand or ride on the plough.

COMPULSORY TASKS

- Follow every instruction given by the ATV's manufacturer.
- Always use proper protective equipment (helmet etc.) when using the vehicle.
- Always inspect the plough mechanism, fasteners, cable, winch rope and adjustments before operating. Replace all worn or damaged parts before operating.
- The safe road-steadiness of the vehicle must always be ensured by using the correct accessories for the task in hand (chains, counterbalances, etc).
- Make sure that all of the safety stickers are in good condition. Replace damaged stickers as required.
- Before starting work, check that the plough and winch are working properly.
- Make sure that bystanders are moved to a safe distance when operating the plough.
- Be aware of objects that could be hidden under snow.
- Slow down the speed when working on a slope or on an uneven surface.
- Keep away from blade and moving parts during operation.
- Before adjusting blade angle, stop the ATV and operate the handbrake.
- When ploughing snow or soil into piles, start backing up before raising the blade.
- Do not ram the blade into piles of soil or snow. Ensure that you slow down before hitting the pile.
- Always wear thick leather gloves when handling the winch rope.
- Always remain clear of moving parts and joints. Keep others away when operating or adjusting the plough.
- Always lower the plough to the down position before leaving the ATV unattended.



IF ANYTHING THAT MIGHT DAMAGE EQUIPMENT HAPPENS DURING OPERATION, THE EQUIPMENT MUST BE INSPECTED TO DETECT AND ASSESS POSSIBLE DAMAGES. DAMAGES (FRACTURES IN THE STRUCTURE OR WELD, DEFORMED DETAILS) MAY HARM PROPERTY AND HEALTH OF PEOPLE. DO NOT CONTINUE OPERATING THE EQUIPMENT BEFORE ELIMINATION OF DAMAGES.



IN PRIOR WORKING WITH PLOUGH ALWAYS CHECK TO HAVE ENOUGH CLEARANCE IN BETWEEN PLOUGH BLADE AND ATV FRONT WHEELS WITH EVERY POSSIBLE STEERING ANGLE.

SAFETY LABELS

	Read the manual before use!
	Maximum permitted speed 10 km / h!
	It is forbidden to drive slopes over 10°!
	Make sure that all bystanders are at a safe distance while working with the plough! Risk of collision!
	Avoid getting your hands and feet between moving parts!
	Make sure that all bystanders are at a safe distance while working with the plough! Risk of flying objects!

PRODUCT DESCRIPTION

The mid-mount V-plow by Iron Baltic can be attached to ATV or UTV and has justified itself as a robust product that is intended for snow clearance or ground planning.

The mid-mount V-Plow system can be equipped with 1500 mm or 1800 mm V-plow, which can be extended with side extensions by 2 x 100 mm.

The model-specific installation kit is needed for installing to the vehicle.

The operating angle, working height of the plow and blade's angle towards the ground can be adjusted for different working positions. Use of springs ensures free movement of the plow over fixed obstacles without damaging the plow or the vehicle.

The operating and transport position of the V- plow can be quickly changed with the vehicle's winch and so movement between different work areas is fast and convenient.

Standard equipment set:

- Push tube 34.2200 / 34.2900
- V-plow 1500 mm / 1800 mm
- Model-specific adapter

Additional equipment :

- Rubber blades
- Plow side extensions
- Deflector kit
- Hydraulic rotation
- Hydraulic or electrohydraulic lifting

Regular V-Plow push tube (34.2200)		
Product	**V-plow 1500 mm**	**V-plow 1800**
Model	34.4300	34.2000
Max working width	1500 mm	1800 mm
Min working width	1350 mm	1530 mm
Height	400 – 600 mm	400 – 600 mm
Weight	57 kg	63 kg
Installation	Model-specific adapter	Model-specific adapter

Table 1. Technical specification of the regular V-Plow push tubes

Long V-plow push tube (34.2900)		
Product	**V-plow 1500 mm**	**V-plow 1800 mm**
Model	34.4400	34.3000
Max working width	1500 mm	1800 mm
Min working width	1350 mm	1530 mm
Height	400 – 600 mm	400 – 600 mm
Weight	63 kg	69 kg
Installation	Model-specific adapter	Model-specific adapter

Table 1. Technical specification of the long V-Plow push tubes

INSTALLATION GUIDE

Step 1

Install the model-specific mounting kit under the ATV.
Instructions are available in the mounting kit packaging.



Step 2

Connect plow sides (Pos.6 and Pos.7) to push tube assembly (Pos.5). Use plow assembly pin (Pos.8), M6x12 bolt (Pos.11) and ∅6 mm washer (Pos.13).



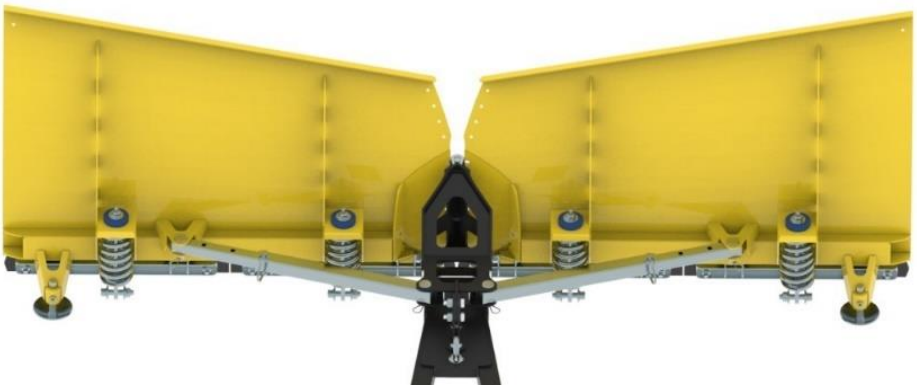




Step 3

Install plow adjusting tubes (Pos.1 ja Pos.2) using pin (Pos.4) and 3 mm cotter pin (Pos.10). For adjusting the angle of the blades, use lynch pin (Pos.9)





Step 4

Install rubber cover (Pos.3) between two sides of the plow. Use M6x16mm bolts (Pos.12), ∅6 mm washers (Pos.14) and M6 nyloc nuts (Pos.15).



Step 5

To adjust the angle of the blade, loosen the M10x35 bolts and turn the sides connector to a suitable position so that the height adjusters would be parallel to the ground.





Step 6

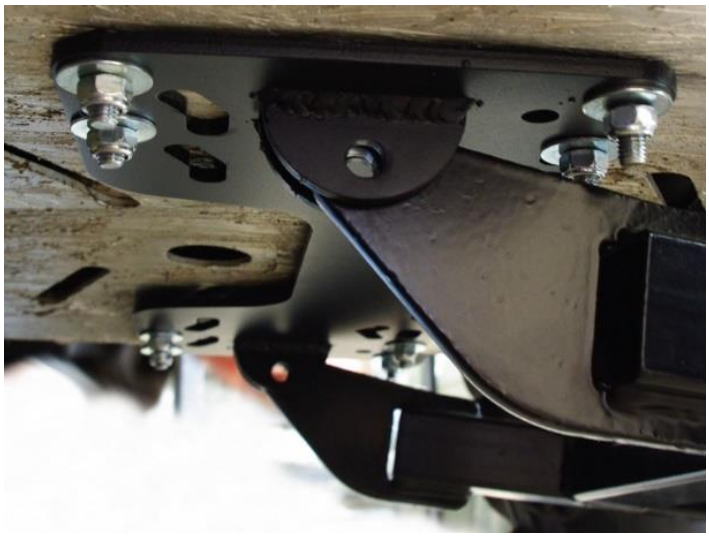
To adjust the working height of the blade, loosen the screw and set the skid at a suitable height. Push tube assembly should be parallel to the ground. Make sure that height adjuster is little bit lower than the blade. Plow should slide on height adjusters NOT on the blade!

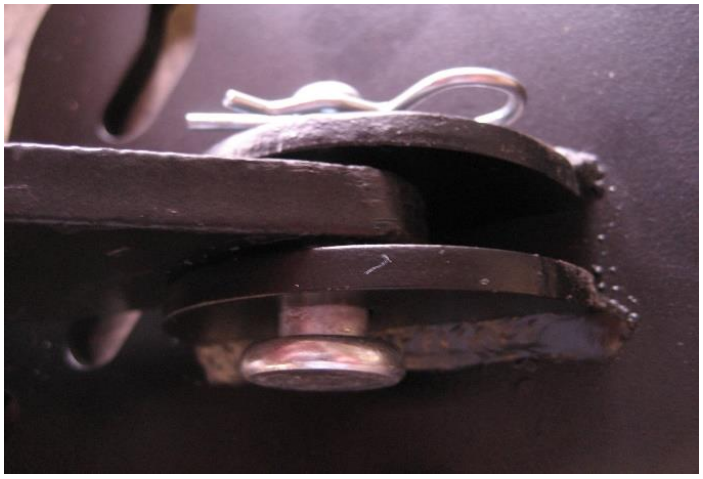




USER GUIDE

Step 1 Install plow under the ATV using ∅10x40 pins and lockers from the mounting kit packaging.

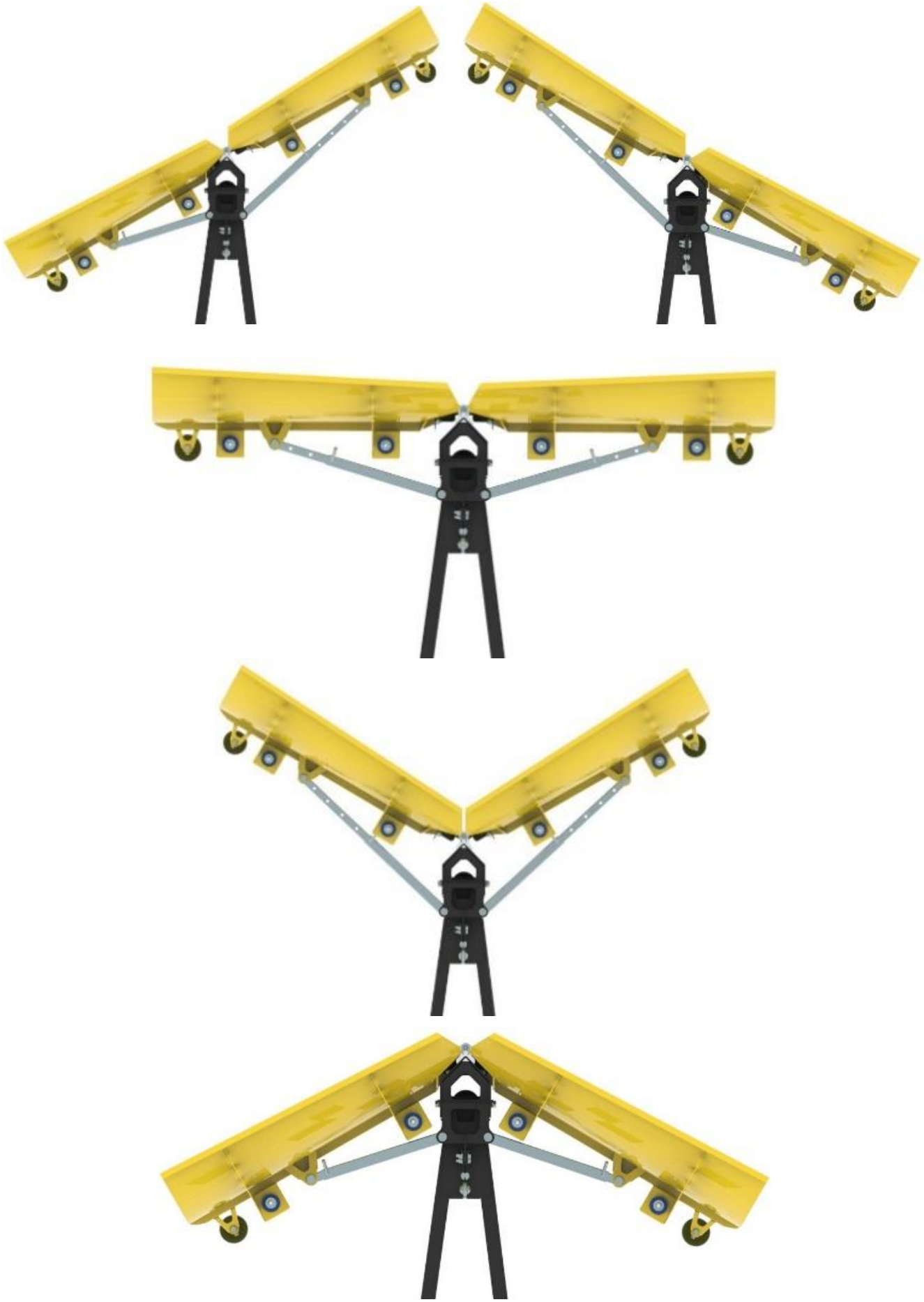




Step 2 Use the winch to move the blade up and down

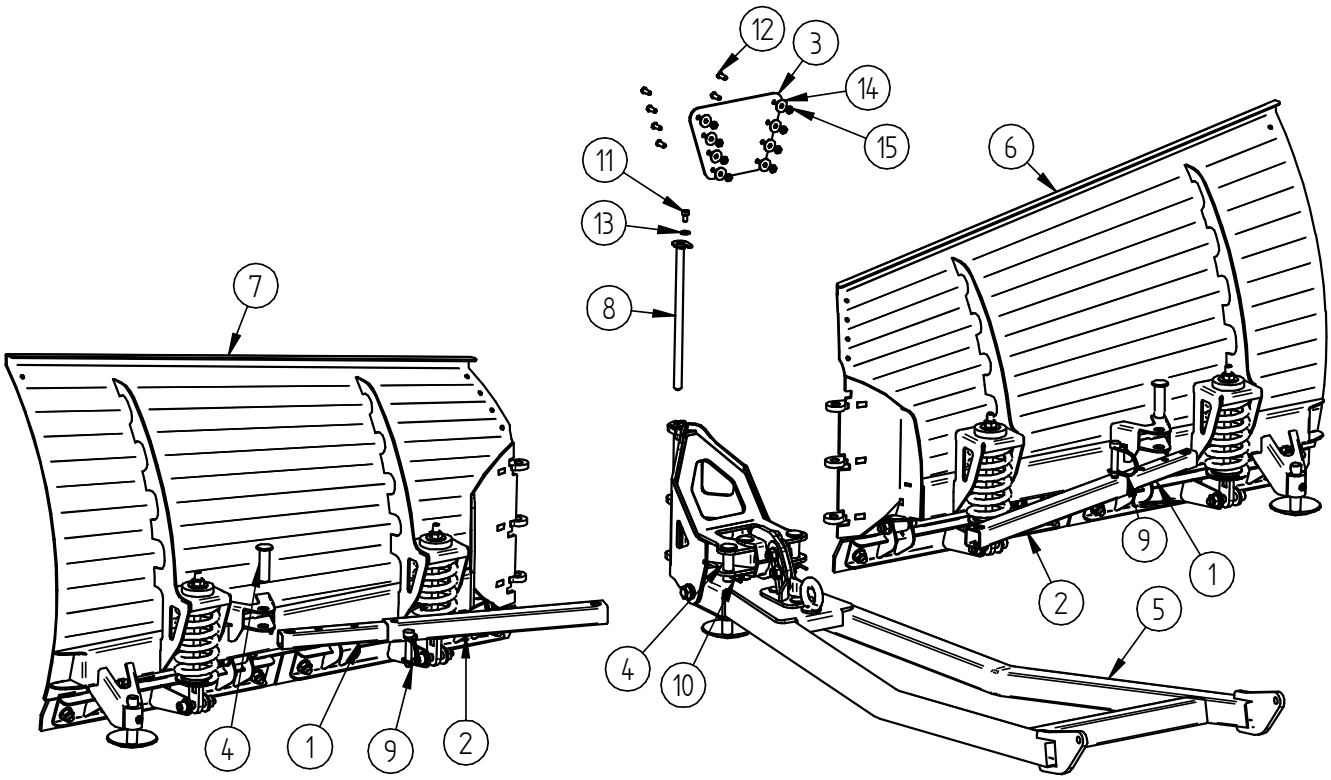


Step 3 To change the plough's angle, remove/pull the pin up and turn the blade to the desired position.

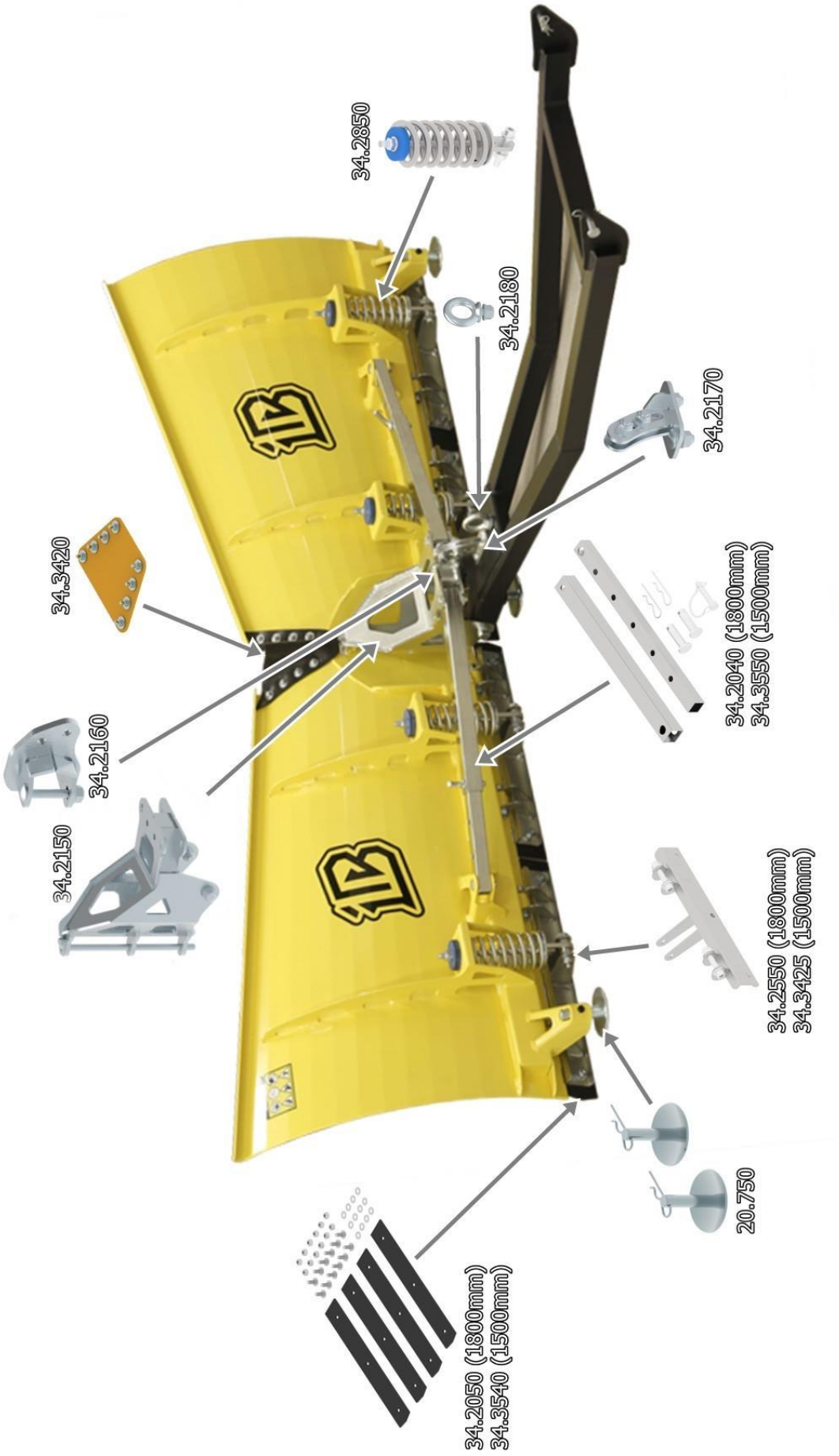


SPECIFICATION

Pos.	Description	Code	Amount
1	Plow adjusting inner tube	34.2002 / 34.3507	2
2	Plow adjusting outer tube	34.2003 / 34.3508	2
3	Rubber cover	34.2007	1
4	Pin	34.2008	4
5	Mid-mount push tube (regular)	34.2200	1
5	Mid-mount push tube (long)	34.2900	1
6	Plow right side assembly	34.2300 / 34.3510	1
7	Plow left side assembly	34.2400 / 34.3520	1
8	Plow assembly pin	34.2700	1
9	Lynch pin	OT.10.11.011	2
10	Cotter pin DIN11024	OT.07.01.020	4
11	Bolt M6x12 DIN933	OT.02.02.030	1
12	Bolt M6x16 DIN7380	OT.02.03.020	8
13	Washer M6 SFS3738	OT.04.03.020	1
14	Washer M6 DIN9021	OT.04.02.020	8
15	Nyloc nut M6 DIN985	OT.03.02.030	8



SPARE PARTS


34.2850
34.2180
34.2170
34.3420
34.2040 (1800mm)
34.3550 (1500mm)
34.2160
34.2150
34.2550 (1800mm)
34.3425 (1500mm)
20.750
34.2050 (1800mm)
34.3540 (1500mm)

IRON BALTIC OÜ
Joa tee 17
Vääna 76903
Estonia / Europe

+372 6 533 711
sales@ironbaltic.com

www.ironbaltic.com
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