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USER MANUAL

SPARE PARTS CATALOGUE

WARRANTY

Eco CUT Rotary Mower

185; 165; 135 and 135 mini
and versions with hydraulic cylinder: 210, 185, 165, 135

Borzytuchom 2023

Issue 08

TRANSLATION OF THE ORIGINAL MANUAL

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ATTENTION!

Before using the machine, please thoroughly read this User Manual and observe the safety instructions contained herein.

The User Manual constitutes an inherent part of the machine!

Keep the User Manual in a safe place, where it should be accessible to the machine operator during an entire lifespan of the machine.

In the event of its loss or damage, you must acquire a new copy from the machine dealer or manufacturer.

If you sell or hand over the machine to another user, please attach the User Manual together with the machine's operating instructions and its Declaration of Conformity.

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TALEX guarantees the efficient operation of the machine, providing it is being used in accordance with the technical and operating conditions specified in this USER MANUAL.
Any faults revealed during the warranty period will be repaired by the Warranty Service.
Expiration date of the warranty period is specified in the WARRANTY CARD.

Machine parts and components, which are subject to wear in normal operating conditions, are not covered by the warranty, regardless of the warranty period.
Warranty Service covers only instances such as: mechanical damages not caused by a fault of the user, production defects, etc.
The group of elements includes, among others, the following parts/components:

- cutting blades,
- protective aprons,
- bearings.

In the event of damages resulting from:

- mechanical destruction caused by a fault of the user or a traffic accident,
- improper use, adjustment and maintenance, use of the machine for a purpose other than intended,
- use of a damaged machine
- repairs conducted by unauthorized persons, improper repairs,
- arbitrary changes and modifications of the machine structure,

the user's rights to Warranty Service may become invalid.
The user is obliged to immediately report any noticed damages of paint coat or spots of corrosion, and order repairs regardless whether or not the damages are covered by the Warranty. Warranty conditions are specified in detail in the WARRANTY CARD attached to the purchased machine.

ATTENTION!

You must demand from the dealer to properly fill out the Warranty Card. For example, if the date of sale or the stamp of a dealer are missing, you risk that your complaints will not be considered valid

ATTENTION!

After a few hours of the machine operation, check the tension of all V-belts.
If their play is too large, tighten them.

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1. Introduction

Before the first use of the mower, you must thoroughly read and understand this User Manual, and follow all the instructions contained herein.

ATTENTION!

Before first use, read the User Manual

This User Manual describes hazards, which may occur when you do not follow the safety precautions when operating and maintaining the mower. The User Manual lists the safety precautions which must be observed in order to minimize and to avoid the hazards.

The User Manual also contains the rules for proper use of the mower and explains the required maintenance procedures.

If you do not understand any information contained herein, please contact directly the manufacturer.

ATTENTION!

This warning symbol alerts about a hazard.

The warning symbol indicates an important hazard information provided in the User Manual. Please read the information carefully, follow the instructions and be exceptionally careful.

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2. Machine identification

Each mower has its rating plate, containing the most important identification data. The rating plate is located on the machine in a place, where it is easy to find and read.

Figure 1 Identification sticker

Manufacturer rating plate includes:

- full name of manufacturer,
- mower serial number,
- mower symbol,
- CE marking,
- weight,
- quality control mark,
- date of manufacture.

3. Rules of safe operation

3.1. User safety

The rotary mower can only be used by adults, who have learned its operation and read this User Manual, and are properly qualified. Mowers should be handled with all safety precautions, and in particular:

- In addition to the guidelines outlined in this User Manual, observe also the general principles of occupational health and safety!
- Observe the warning symbols displayed on the machine.
- It is strictly forbidden, that the machine shall be operated by anyone under the influence of alcohol or other intoxicants.
- Never allow the vehicle servicing the mower to be driven by a person other than the mower operator, and under no circumstances allow any other persons to be on the vehicle, or on the machine, during its operation.
- The mower may be operated by a person with the proper authorization to drive the vehicle to which it is attached, in accordance with the manufacturer's instructions.
- The operating position of the operator, while working with the mower, is the cabin of the vehicle to which the machine is attached.
- Please note, that there are many elements of the mower that may cause an injury (sharp edges, protruding parts, etc.). Use extra caution when moving around the critical elements and obligatorily use the personal protective equipment, such as:
  - protective clothing,
  - protective gloves,
  - protective footwear
- It is forbidden to carry persons or objects on the machine.
- It is forbidden, that the machine should be operated by persons, who are not familiarized with the User Manual.
- The mower operator should be provided with the first aid kit, containing also instructions for its use.
- When driving a vehicle with the attached, but not working mower, ensure the safe transportation height of ~ 0,4m.
- Before driving, the mower must be set to the transportation position, and raised with the rear three-point hitch. When parking, the machine should be lowered.
- Take special care when driving on public roads, and comply with the applicable road traffic regulations.
- When driving on public roads, it is essential to use the electric outline lighting of the vehicle, check its efficiency and visibility, and keep it clean. The user is obliged to ensure the visibility of a machine during its transportation: use the reflective markings

and warning signs - may be included as an option. The transportation speed should be adjusted to the condition of a road surface, it should not, however, exceed 15 km/h.

- Do not leave the vehicle with the mower on a hillside or on another sloping surface, without securing the vehicle from rolling down. The mower should be lowered to the ground. Truck wedges should be placed under the vehicle tires.
- The mower must be adjusted to working height, during its attachment to the vehicle. During the mower operation certain adjustment is possible, it should be done from the inside of vehicle cabin, and operator should never leave the cabin.
- Any preparations, fitting, dismantling or adjustment can be performed only after the drive has been switched off, the engine stopped, the vehicle immobilized and when all the moving parts of the machine have stopped.
- After first hour of operation, check the status of all separable connections, including bolts.
- The mower should be kept on a flat, level, paved surface, out of the reach of strangers and animals. For stabilizing the mower use the support foot.
- During the fitting and dismantling of mower you should be careful, paying particular attention to the structural elements used for fixing the mower to a vehicle.
- Before using the mower you must check the condition of mower and of the vehicle it is attached to. The vehicle and mower unit should be in good mechanical condition. Immediately replace parts which are worn out or damaged.
- The mower must be equipped with all the safety guards (provided by the manufacturer), preventing access to any moving parts. The guards must be complete and fully operational.
- Work with the mower without the guards and mudguard is not allowed. Work with the damaged guards or raised mudguard is forbidden.
- It is also forbidden to lift the mower, while the drives are working and the reels are rotating.
- It is not allowed to control the lever of hydraulic lift from outside of the tractor.
- Before beginning to work with the mower, you should familiarize yourself with the way it operates, occupational safety rules and recommendations for maintenance and adjustment procedures, by reading this User Manual.
- Weight of the mower suspended on a vehicle can affect the vehicle's manoeuvrability. Under these circumstances you must exercise extreme caution.
- The User Manual should be kept on the machine. When letting the machine to other user, you must ensure that it is in good mechanical condition, and that the User Manual is also handed over.
- It is prohibited to attach any additional means of transportation to the mower.
- During commissioning, check the machine functions and make the initial adjustments, without a load.

- Assembly protection of the three-point hitch of the mower with pins, should be made only using the typical secure cotter pins. Using any other break-back devices is prohibited.
- Due to the natural wear, you must control the condition and completeness of the machine cutting tools, following the instructions laid out in Chapter 7. Operation and maintenance
- On receipt of the mower after its transportation, you must make sure that the machine has not been damaged and check its mechanical condition.
- It is forbidden to stand under the raised mower, as it may result in being crushed by the machine.
- When adjusting, do not place your fingers and limbs between the structural elements of the machine.
- It is forbidden to leave a tractor's cabin when the machine is running, and before all the rotating parts have stopped
- Operator of the vehicle working with a mower, must ensure that no person is approaching the machine during its operation, and **the distance of not less than 50m from the working mower is always maintained.**
- Before switching on a mower's drive, lower the cutting unit to its working position.
- Mowing may be started only after PTO reaches the nominal speed of 540 rpm. It is forbidden to overload the PTO shaft of the mower, and engage the clutch suddenly.
- When turning, reversing or manoeuvring with the machine, you must ensure that your visibility is adequate, or get assistance from a properly trained person.
- **It is prohibited to perform mowing while reversing the vehicle.** When reversing, lift up the machine.
- When connecting the hydraulic lines, make sure that the hydraulic system is not pressurized.
- It is forbidden to stand between the vehicle and the mower, while the vehicle's engine is running.
- Working on slopes exceeding 10% is not allowed.
- Pay special attention when working on slopes.
- When driving on curves and turning, switch off the PTO drive.
- It is forbidden to operate the machine in close proximity of public squares (parks, schools, etc.) or on stony grounds, to avoid the danger coming from the thrown out stones and other objects.
- Do not allow the PTO working speed to exceed 540 rpm, while driving speed must be adjusted to the type of work being done.
- Working with damaged or incomplete articulated telescopic shaft is forbidden. And it is strongly forbidden to work without covers on moving parts.

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- The telescopic shaft has marks indicating which end must be connected to the tractor, before work please make sure that the direction of rotation of the shaft is correct.
- Never leave a vehicle with the engine running. Before leaving the driver's seat (the cabin), lower the machine to the ground, turn off the engine of the vehicle, remove the ignition key, and apply the handbrake.
- Make sure that during work, fitting, dismantling or adjustment of the machine, no parts of your work clothing are unbuttoned or hanging loose. You should keep elements of your clothing away from any machine parts that are likely to catch them.
- It is advisable to clean and wash the mower in a washing stand equipped with a sewage treatment feature or a settling tank, to neutralize the waste water.
- The machine should be kept and stored in places protected from unauthorized access of persons and animals, thus eliminating the risk of accidental injuries, on a flat, hardened surface, under a protective canopy.
- In the event of failure, immediately switch off the drive transferring power from the vehicle to the mower.
- When working with the mower, use hearing protection headphones to minimize the exposure to noise. In addition, it is recommended to close the doors and windows of the vehicle's cabin.

Failure to observe the above guidelines may present danger for the operator and other persons, as well as damage the mower.
The user is responsible for any damages caused by the non-compliance to the above principles.

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3.2. Residual risk assessment

Talex company has made every effort to ensure that the design of the mower, and its intended use, do not pose any risk to persons or the environment.

Due to the nature of work being done by the mower and, for example, the inability to completely cover the machine's cutting unit, certain risk factors may occur.

No.	*Hazard*	*Hazard source (cause)*	*Hazard protection measures*
1	Drive system overload (physical weight)	Work in a standing, forced-bent position, walking, moving items	Reading and understanding the User Manual, workplace training including lifting standards for the manual transportation labour, proper techniques for lifting and carrying weights, use of another person's assistance, moving equipment such as jacks, winches
2	Fall on the same level (tripping, slipping, etc.)	Uneven terrain, messy environment - objects lying and standing around, cables lying on communication roads, slippery surfaces	Suitable footwear, level ground, paying attention, maintaining order, familiarization with the User Manual
3	Hitting stationary, protruding parts of the machine	Machine and its surroundings	Proper positioning of a machine, safe space to move around, proper organization of work, paying attention, familiarization with the User Manual
4	Being hit by moving objects	Mowed plants, accidentally removed soil, stones	Paying attention, establishing a danger zone, prohibiting any traffic near the working machine, banning persons from standing within the 50m range from the working machine, using personal protective equipment - protective helmet, glasses, familiarization with the User Manual
5	Sharp, dangerous edges	Protruding structural elements of the machine, use of manual tools	Personal protective measures – protective gloves, buttoned up work clothes, paying special attention
6	Belt transmission systems	Fast moving transmission pulleys and belts, rotating articulated telescopic shaft, no covers on the movable parts	Elimination of moving around, approaching and regulating the machine, which is running, paying special attention, familiarization with the User Manual

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7	Weight of the suspended standing machine	Improper mounting, aggregating, wrong setting of the machine, improper operation, leaving the suspended machine on a tractor	Paying special attention, use of personal protective equipment - safety footwear, protective gloves, secure setting of the machine, help of another person, use of lifting jacks, davits, familiarization with the User Manual
8	Microclimate - changing weather conditions	Work performed in different weather conditions	Suitable working clothes, beverages, creams with sunscreen, proper rest, familiarization with the User Manual
9	Noise	Too high rotational speed of the machine, damaged, loose, vibrating parts	Work only with the machine in good mechanical condition, regular inspections, proper rotational speed, familiarization with the User Manual

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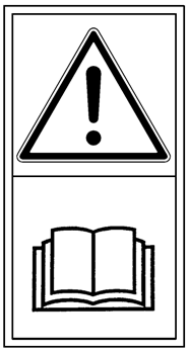
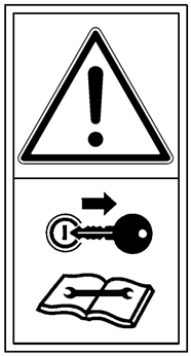
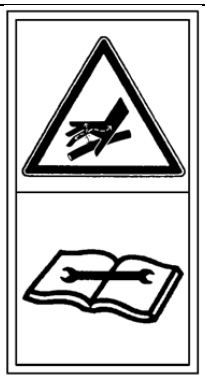
3.3. Safety signs on the machine and their meaning

 1.0 - Prior to using the machine, read the User Manual	 1.1 - Switch off the engine and remove the ignition key before beginning any servicing or maintenance procedures	 1.2 - Keep a safe distance from the machine. Do not allow unauthorized persons within the range of 50 m from the machine
 1.3 – Do not attempt to perform any repairs while working	 1.4 - Do not ride on platforms and ladders	 1.5 - Do not stand near the lifting jack connectors, when controlling the jack
 1.6 - Do not open or remove safety guards, when the engine is running	 1.7 - Keep a safe distance from power lines	 1.8 - Avoid impact of liquids flowing under pressure. Read the User Manual and learn about the operation procedures

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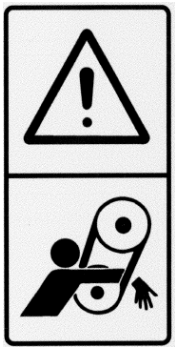
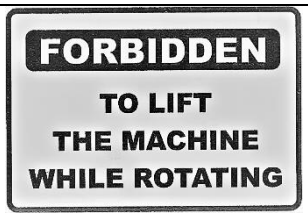
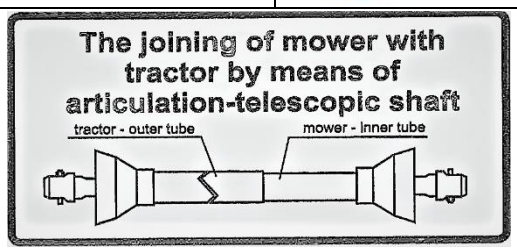
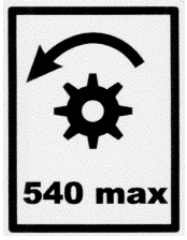
<table>
<tr>
<td> 

1.9 – Caution, loose rotation tools</td>
<td> 
2.0 - Caution, cutting blades. Do not approach a working mower</td>
<td> 
2.1 Caution, V-belts. Keep away</td>
</tr>
<tr>
<td rowspan="2"> 

2.2 – Warning message about pressure in the hydraulic system</td>
<td> 
2.3 - Use protection suit</td>
<td> 
2.4 – Use protective gloves</td>
</tr>
<tr>
<td> 
2.5 – Use hearing protectors</td>
<td> 
2.6 – Use protection goggles</td>
</tr>
<tr>
<td> 

2.7 Do not raise the rotating machine</td>
<td colspan="2"> 

2.8 Shaft connection of mower with tractor</td>
</tr>
<tr>
<td> 

2.9 Do not exceed the maximum RPM</td>
<td> 

2.10 Correct arrangement in a given position</td>
</tr>
</table>

Table 1 Safety signs on the machine and their meaning

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4. Intended use of the machine

The rotary mower is designed for agricultural applications, mowing of the low growing green forage like grasses, alfalfa, etc., on fields and meadows with flat surfaces.

It can be used in fields and meadows, which contain no stones, are flat or slightly undulating, with the slope of up to 10 °.

The mower is a machine suspended on the three-point hitch system of the category I and II tractor. The working elements are two rotating discs, fitted with blades. This unit is driven from power transmission shaft, through articulated telescopic shaft and belt transmission to bevel gears. The bevel gears are embedded on the drive shafts, which drive the discs.

Complying with the requirements related to the use of the machine, its operation and repairs, strictly according to the manufacturer's guidelines, is the precondition of the use of the machine as intended. The machine should be used, operated and repaired only by persons familiar with its specific characteristics, who have learnt the rules of conduct prescribed by the occupational health and safety regulations.

The manufacturer offers a wide range of agricultural machinery. It can also provide professional advice in terms of choosing the right equipment for your needs.

Any doubts concerning the machine’s intended use should be resolved by contacting its manufacturer. Selection of the appropriate product and knowing the range of its intended use will contribute to the occupational safety.

Using the machine for any other purpose shall be considered contrary to the intended use.

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5. Equipment and accessories

5.1. Basic equipment

Basic equipment of the mower consists of:

- User Manual together with Spare Parts Catalogue and Warranty Card - 1pc.
- Special spanner - 1pc.
- Set of blades - for number see Table No. 2.
- Set of spare blades
- For Eco CUT 210 – PTO shaft 460Nm L-860 and hydraulic cylinder -1pc.

Basic equipment of the mower does not include warning signs with lights, slow moving vehicle triangle, and articulated telescopic shaft. The above items can be purchased additionally from the manufacturer or at the machines' point of sale.

5.2. Technical characteristics

The overall construction of the mower is shown in the following figure.

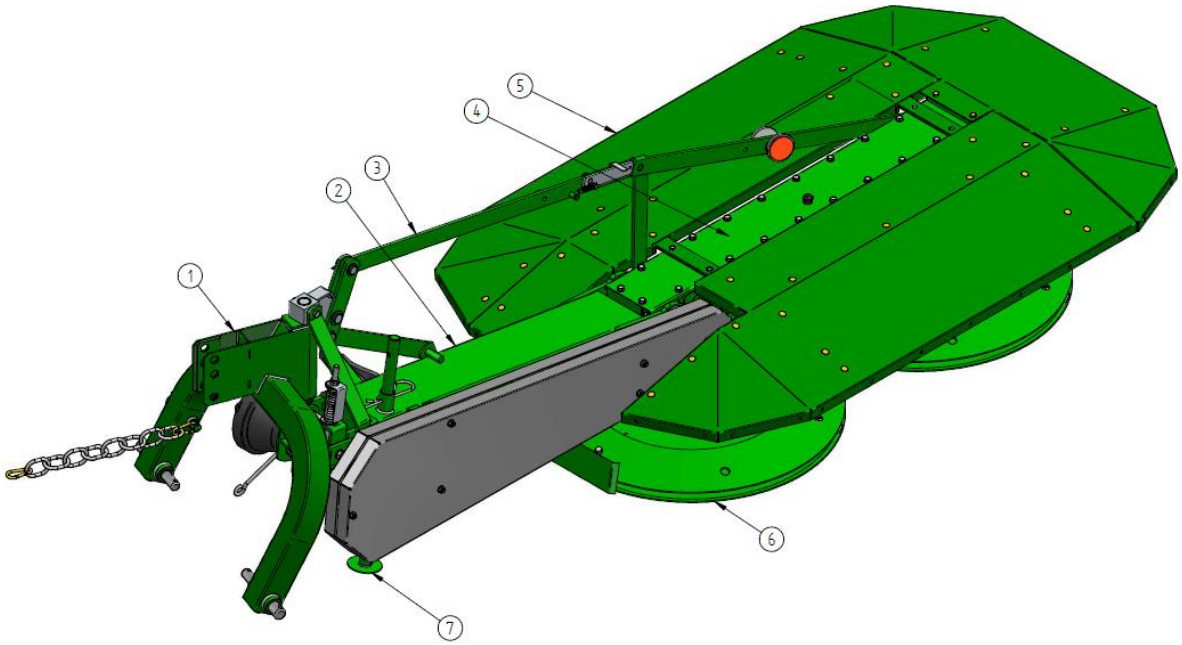

Figure 2 Overall machine construction: 1 - suspension frame; 2 – main chassis; 3 – connectors unit/cylinder (depending on the model); 4 – cutting unit; 5 – cover assembly covers; 6 – working section of cutting unit; 7 – support foot.

Suspension system frame is used to connect the mower to a tractor. Through centre frame, the suspension system frame is connected to the complete working unit with covers.

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The working unit consists of two working drums, with cutting blades rotationally embedded in the lower part of the drums. Diagram of the drive system is shown in Figure 3. and Figure. 4

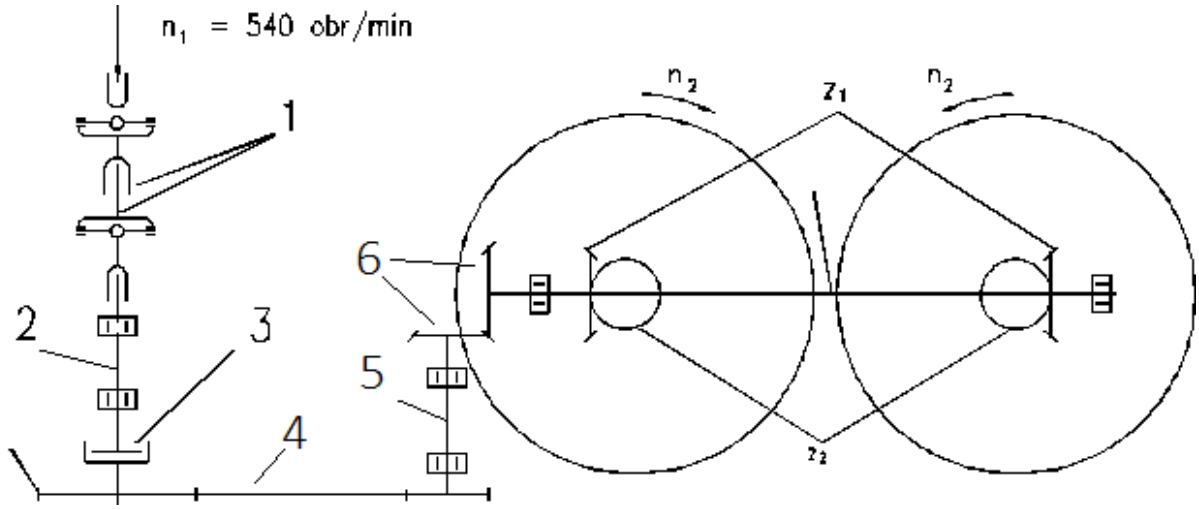

Figure 3 Drive system diagram: 1 – articulated telescopic shaft; 2 – drive head shaft; 3 – freewheel clutch (on large pulley); 4 – V-belt transmission; 5 – main frame shaft; 6 – bevel gear; n1 – rotational speed of tractors PTO; n2 – rotational speed of drums (values given in Table 2); z1 – large bevel gear; z2 – small bevel gear.

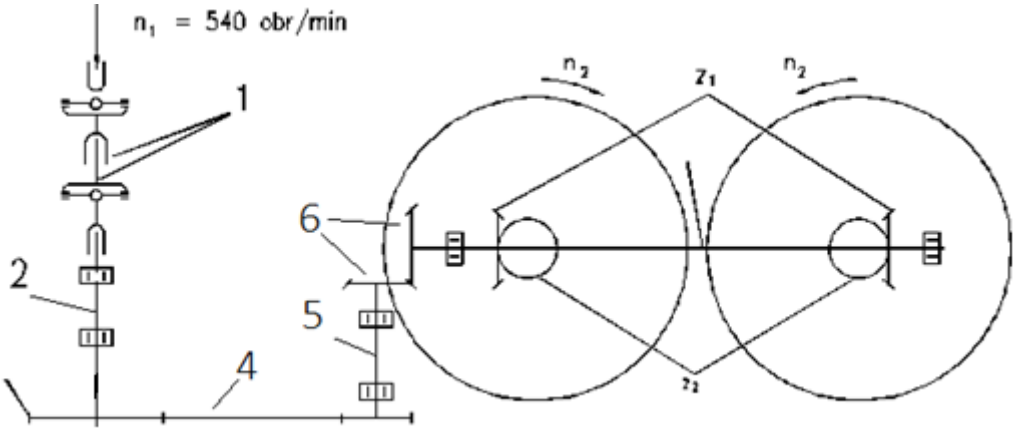

Figure 4 Eco CUT 210 drive system diagram: 1 – articulated telescopic shaft with one-way clutch; 2 – drive head shaft; 4 – V-belt transmission; 5 – main frame shaft; 6 – bevel gear; n1 – rotational speed of tractors PTO; n2 – rotational speed of drums (values given in Table 2); z1 – large bevel gear; z2 – small bevel gear.

The drums are driven by the tractors PTO shaft. Together with the blades, they rotate in opposite directions, cutting plants and forming green forage in a swath. The one-way clutch allows the drums to rotate freely after the engine is shut off, and protects the driving elements from damage.

Technical-operational data for mowers are provided in Table 2.

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		UOM	Mower model				
		Eco CUT	**210**	**185**	**165**	**135**	**135mini**
No.		Type	2.10m	1.85m	1.65m	1.35m	1.35mini
		Symbol	Z-042/3	Z-042/2	Z-042/1	Z-042	Z-080
1	Type of mower	-	Rotary suspended				
2	Mowing width	[m]	2.10	1.85	1.65	1.35	1.35
3	Power requirement	[kW]	70	60	40	25	
4	Number of cutting drums	[pcs.]	2				
5	Number of blades	[pcs.]	8	6		4	
6	Standard cutting height	[mm]	40	40	40	36	36
7	Low cutting height	[mm]	35	32	36	32	32
8	Rotational speed of working drums	[rpm]	1545	1790	2020	2300	
9	Rotational speed of tractor's PTO	[rpm]	540				
10	Recommended PTO	[cat.]	IV			II	
		[Nm]	460**	460		270	
11	Work efficiency	[ha/h]	Up to 2,5	~ 1,6	~ 1,4	~ 1	~ 0.8
12	Working speed	(km/h)	8				
13	Transportation speed	[km/h]	15				
14	Transportation clearance	[m]	0.4				
	Overall dimensions in transportation position (with shield covers assembly, vertical position)						
	Model	[mm]	**210**	**185 / hydr.**	**165 / hydr.**	**135**	**135 mini**
15	Length	[mm]	2460	3450/2450	3180/2200	2760	2280
16	Width	[mm]	1750	1350	1220	1220	1010
17	Height	[mm]	3060	1830/2800	1830/2250	1730	1350
	Overall dimensions in working position (with shield covers assembly)						
18	Length	mm	1750	1350	1220	1200	1010
19	Width	mm	4220	3600	3200	2800	2300
20	Height	mm	1090	1430	1430	1430	1050
21	Weight	kg	562	430	369	338	310
22	Nominal pressure in the hydraulic system / for models with hydraulic cylinder	MPa	16			N/A	

* The overall dimensions may differ when aggregated with a particular tractor
**with one-way clutch

Table 2 Mowers' technical-operational data

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6. Machine usage

The manufacturer declares that the machine is fully functional. It has been inspected in accordance
with the quality control procedures and approved for use. However, this does not relieve the user from the obligation to inspect the machine after its delivery.

Before every time the machine is used, its mechanical condition needs to be checked, and especially the condition of cutting unit, drive transmission system, hydraulic system and guarding shields.

6.1. Mower assembly

The manufacturer delivers a complete mower with an unmounted cover of the cutting unit. Installation of the cutting unit cover must be done by the user.

Working without the cutting unit cover, or with the cover damaged or raised, poses a danger for an operator and for environment – Strictly prohibited.

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Instructions for the cover unit installation are provided in the paragraph "9.2.8 Cover unit".

For models with connectors:

If the mower has been delivered as shown on the photo (Fig. 5), you should:

- remove the cover unit (Fig. 5),
- lower and secure the support foot,
- disconnect the milled connector from the scythe-connector (Fig. 6A),
- carefully lower main frame with suspension frame on the support foot base,
- Using a pin, connect the milled connector with the scythe-connector (Fig. 6B), and secure the pin with a split linchpin.

Figure 5 Mower before assembly by the user

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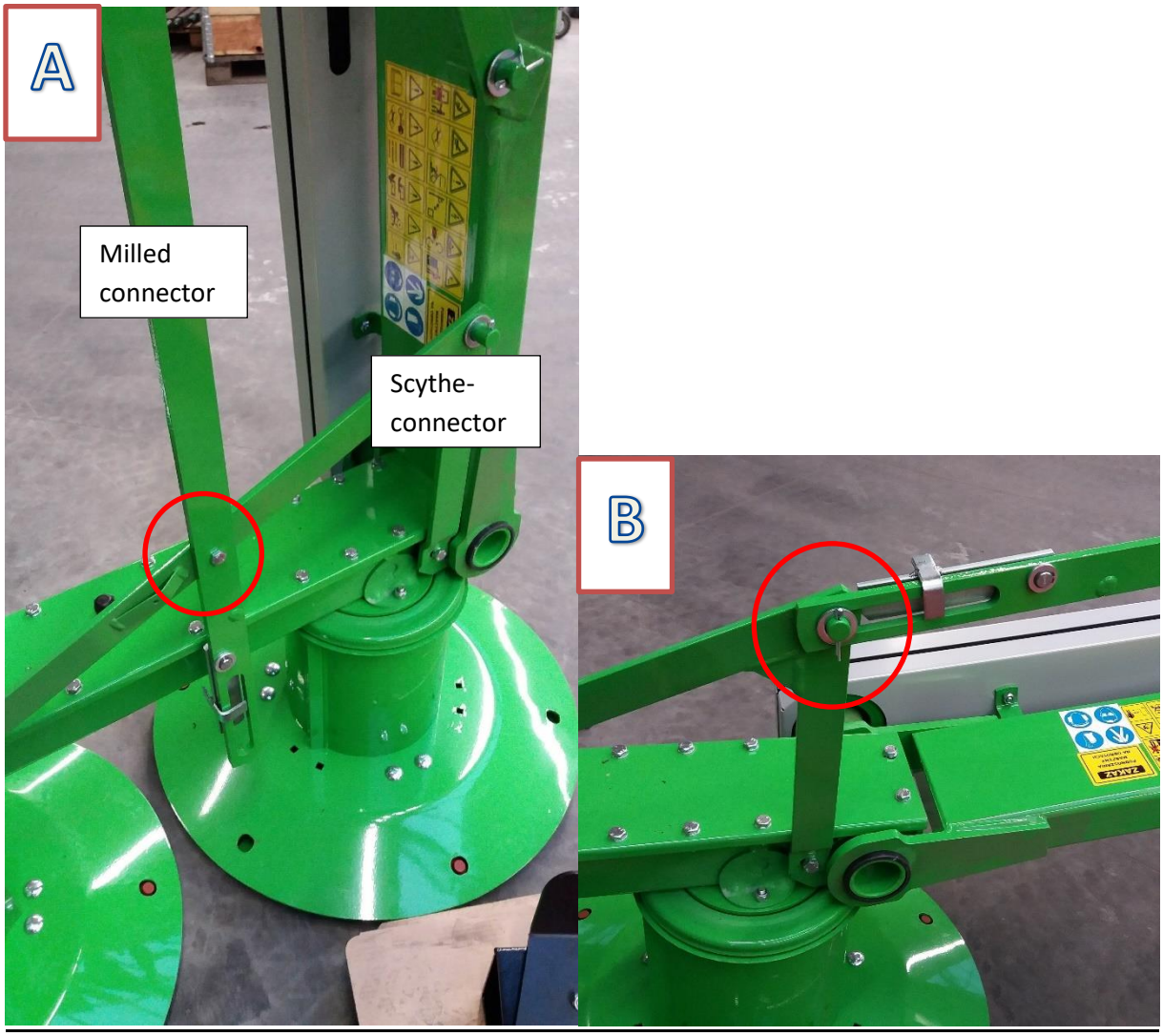

Figure 6 A) B) Assembly of the mower

For models with hydraulic cylinder

If the mower has been delivered as shown on the photo (Fig. 5), you should:

- remove the cover unit (Fig. 5),
- lower and secure the support foot,
- disconnect the cylinder and the straight clevis from the scythe-connector (Fig. 7B),
- carefully lower main frame with suspension frame on the support foot base,
- connect the straight clevis with the hydraulic head (Fig. 7C),
- connect the cylinder with the scythe-connector (Fig. 8).

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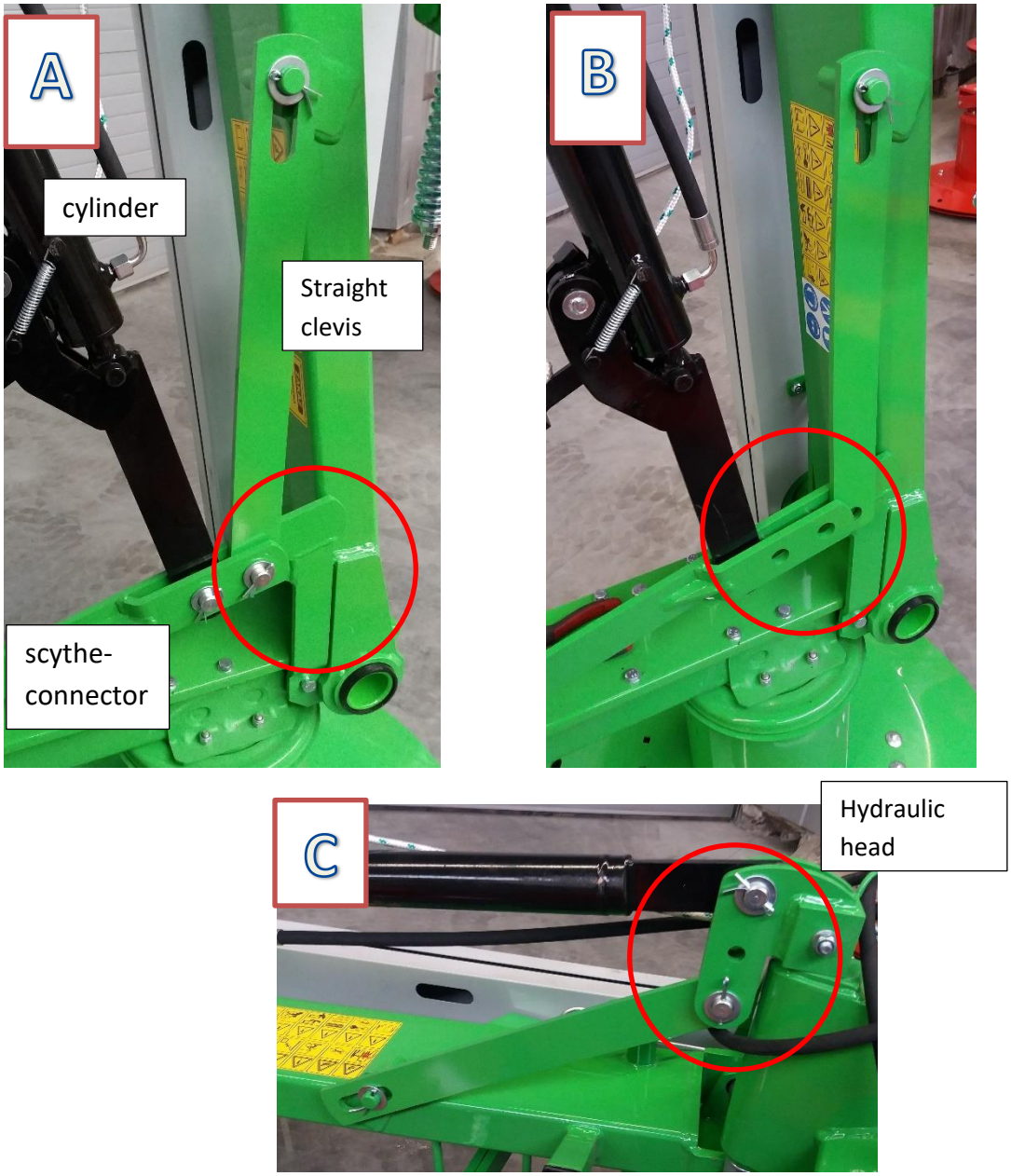

Figure 7 A) B) C) Assembly of the mower

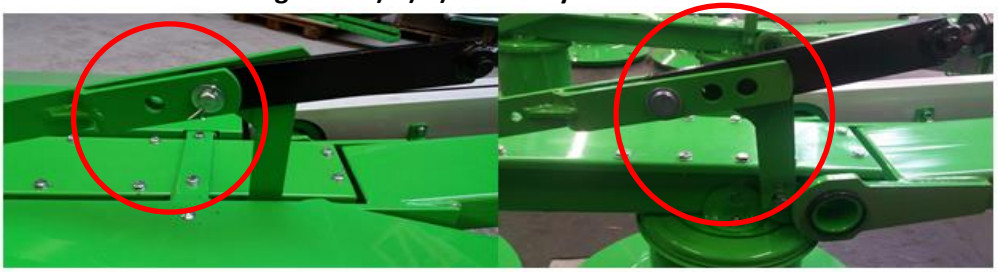

Figure 8 Proper mounting of the hydraulic cylinder in the scythe-connector: A) mower 1.85m and 1.35m with hydraulic cylinder; B) mower 1.65m with hydraulic cylinder

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6.2. Connecting the mower to a tractor

Make sure that the connecting parts of both, the vehicle and the machine, are suitably adjusted to each other. In case of any doubt, always ask the vehicle or the machine manufacturer.

The mower should be connected with the tractor by means of a three-point hitch suspension system. During connection, the mower should be in transportation position.

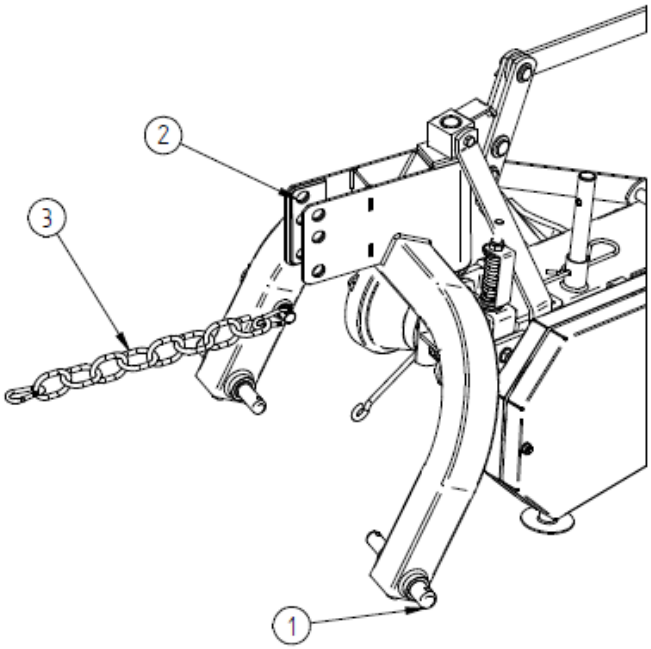

Figure 9 Aggregating – connecting the mower

In order to connect the mower to the tractor:

1. On the pins (Fig. 9, item1) of the suspension frame, fit the tractor's lower connectors (first left, then right), and secure them with linchpins.
2. Insert the top connector's tip between the yoke plates, using the holes (Fig. 9, item 2), then connect with a pin and secure with a linchpin.
3. Raise the mower to take the weight off the support foot.
4. Raise the support foot and secure it with a cotter pin.
5. Connect the chain to the transportation hitch or its bracket.

Adjust length of the articulated telescopic shaft to the tractor, according to the shaft's instructions.

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6.3. Transport position

For the mowers transportation, it should be set in the transportation position.
Articulated telescopic shaft must be detached from both, the tractor and the mower.

<u>For models with connectors:</u>

1. Park the tractor and mower on a flat, even surface,
2. Remove the securing element from the upper pivot of the suspension frame.
3. Set the interlock to the transportation position (Fig. 11A).
4. Raise the mower with a hydraulic cylinder of the tractor, so that the sliding discs do not rest on the ground.
5. Raise the support foot to the upper position, and secure with a cotter pin.
6. Manually place the mower in transportation position (Fig. 12), so the interlock pin is inserted into the hole in clevis (rope must be loose) (Fig. 13A).
   For the 1.35m version, put the transport beam, shown in Fig. 10, on the upper pin of the suspension frame and secure it with a cotter pin (Fig. 10A). In the working position, the transport beam should be removed from the frame pin and placed in the clamp shown in Fig. 10B. Then, put the break-back unit on the bolt, where the transport beam was previously attached, and secure it with a cotter pin.
   For the model 1.35m, place the transportation bar on the top pin of suspension frame and secure it with a cotter pin.

Figure 10 Transport and working position for a 1.35 m mower

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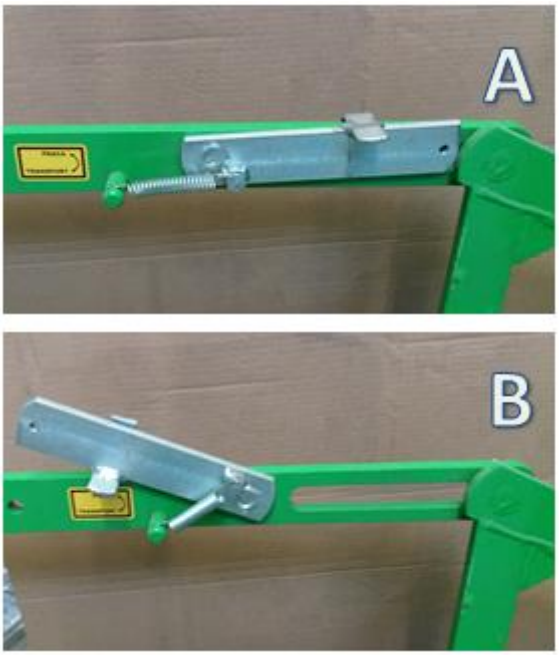

Figure 11 Interlock: transport position/working position

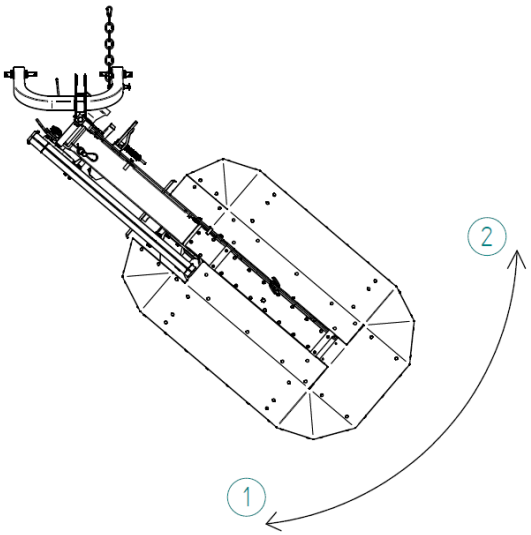

Figure 12 Mower position:

1) transport position,
2) working position

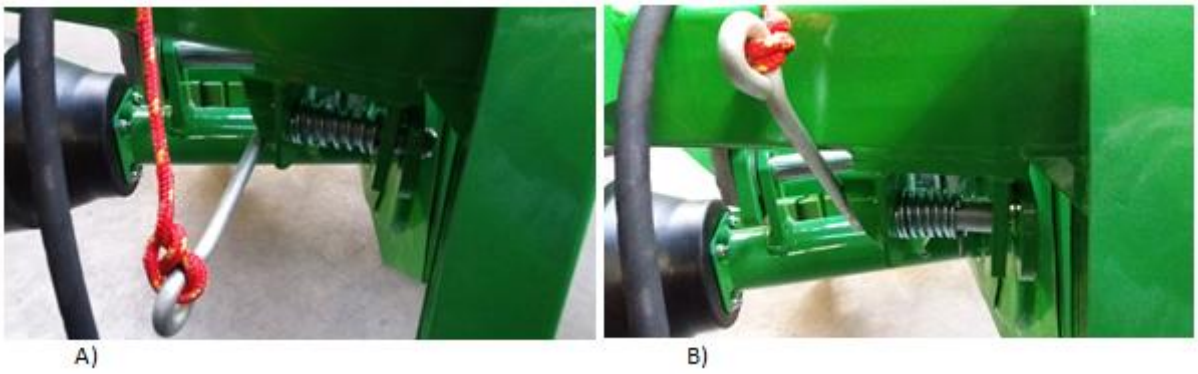

Figure 13 Suspension frame locking pin: (A) inside the clevis hole (B) removed from the clevis hole

For mower models with hydraulic cylinder 2.10m, 1.85m, 1.65m and 1.35m:

1. Park the tractor and mower on a flat, even surface,
2. Remove the securing element from the upper pivot of the suspension frame,
3. Raise the mower with a hydraulic cylinder of the tractor, so that the sliding discs do not rest on the ground,
4. Raise the support foot to the upper position, and secure with a cotter pin,

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5. Manually place the mower in transportation position, so the interlock pin is inserted into the hole in clevis (rope must be loose) (Fig. 13A). For a 1.35 m mower, secure it with a transport beam (Fig. 10).
6. Bring the cylinder to transportation position, until the cylinder lock gets triggered (Fig. 15A). Transportation position is shown in the Figure 14.

Figure 14 Proper transport position for 2.10m, 1.85m, 1.65m and 1.35m mowers with hydraulic cylinder

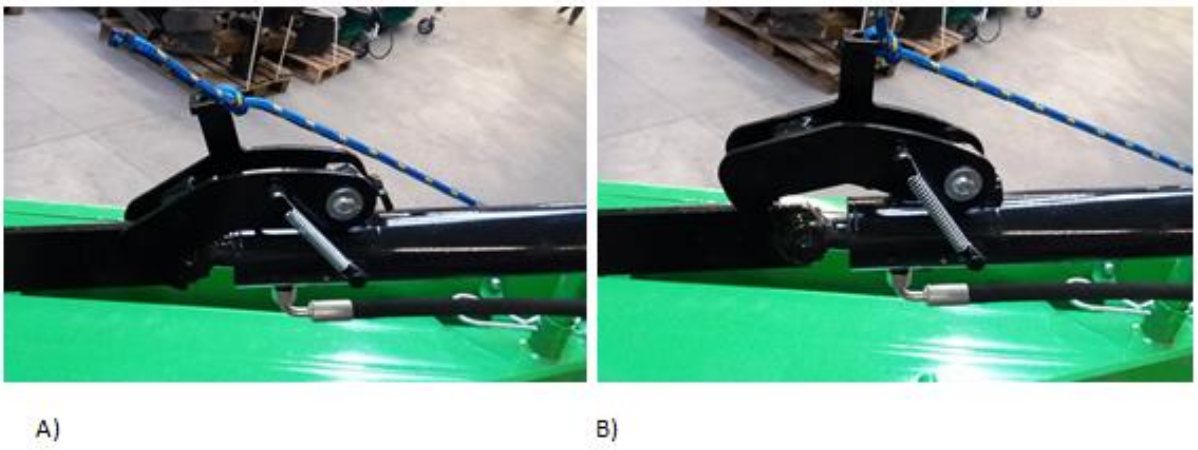

Figure 15 Locking the cylinder: A) locked, B) open

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Do not transport mowers 2.10m, 1.85m, 1.65m and 1.35m with a hydraulic cylinder in the position shown below:

A)

Figure 16 Incorrect transport position for 2.10, 1.85, 1.65 and 1.35 mowers with a hydraulic cylinder

B)

Figure 17 Incorrect transport position for 2.10, 1.85, 1.65 and 1.35 mowers, models with a hydraulic cylinder (transport position width greater than allowed by law).

Closing the cylinder for Eco CUT 210 mower for transport is shown in the figure below. Lock pin - **Pos. 1** should lock into the cylinder handle (lower the mower until the pin is completely locked). The ball valve lever should be moved to the **closed position - Pos. A.**

However, for operation, the valve lever should be moved to the **open position - Pos. B**, and open the lock with the cable until the lock is released.

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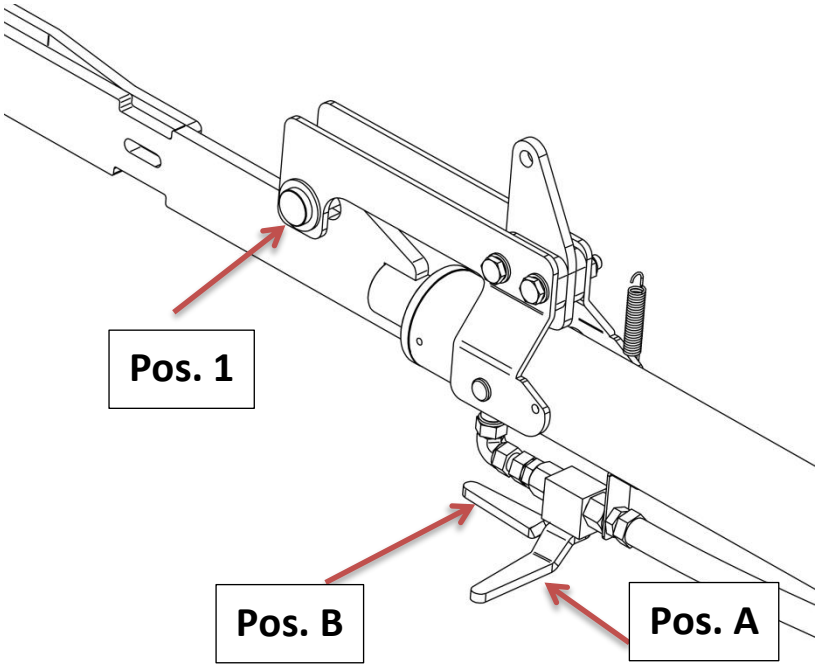

6.4. Working position

To transform the transportation position to the working position:

1. Park the tractor and mower on a flat, even surface,
2. In the mower with hydraulic cylinder, pull the rope to release the cylinder lock (Fig. 15B), then move the mower to horizontal position. During lowering of the mower you must exercise extreme caution.
3. In a model with connectors, set the interlock to working position (Fig. 11B).
4. Lower mower just above the ground.
5. Standing at the rear of the machine, pull the rope and remove locking pin from the clevis (Fig.13B), then rotate the mower to working position (Fig. 12).
6. In the 1.35m version, remove the transport beam from the upper pivot of the suspension frame, then turn the mower to the working position. Place the free end of the transport beam in the bracket on the suspension frame (Fig. 10B on page 24). Mount a securing element on the top pivot of suspension frame, and secure it with a cotterpin.

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6.5. Adjusting the mower

After setting the mower in working position, the sliding discs should be positioned parallel to the ground.

In the position, the pin of the scythe-connector (Fig. 18, item 1) should be placed in the centre of the groove in the connector (Fig. 18, item 2).

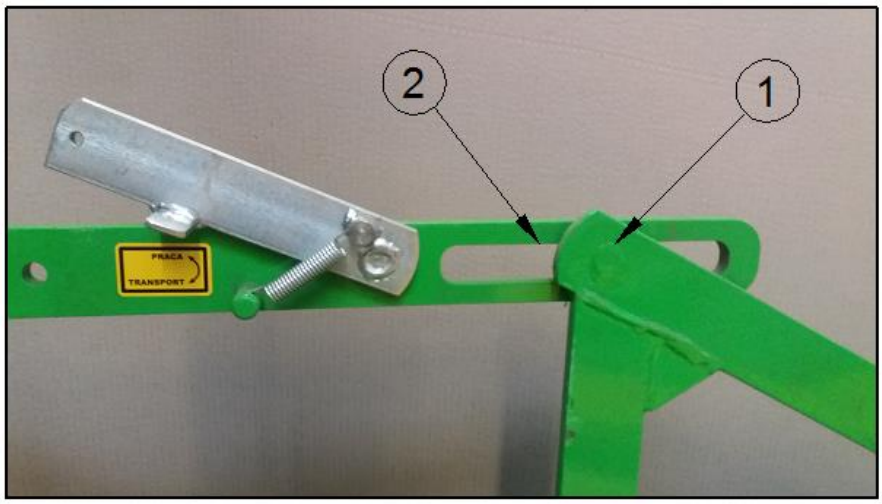

Figure 18 Proper positioning of the mower

In order to change the cutting height:

1) Position the mower for transportation and lift it to the upper position, immobilize the tractor, switch off its engine.
2) Secure the mower against falling off, additionally support one of the discs,
3) Unscrew the bolts (Fig. 19, item 1) and remove the sliding disc (Fig. 19, item 5)
4) Unscrew the bolts (Fig. 19, item 3) fixing the resistance disc (Fig. 19, item 2) and remove the disc.
5) Adjust the cutting height (Fig. 19, item 4 - spacer rings),
6) Assemble the parts in reverse order.

Execute the above steps on the second element of the cutter unit's working section.

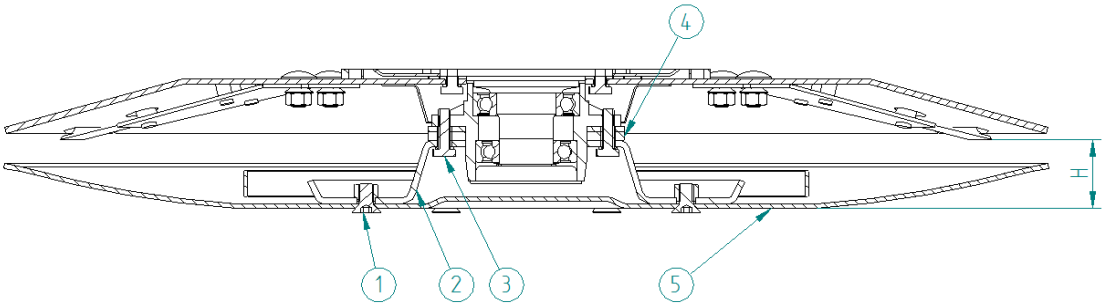

Figure 19 Cutting height adjustment: H) cutting height

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6.6. Operation of the mower

The mower is equipped with an overload break-back device, which allows pushing away the mower when it hits an obstacle or encounters too great resistance during cutting. To engage back the break-back device, reverse the tractor a short distance. Incorrect spring tension can cause incorrect operation of the machine, or even its damage.

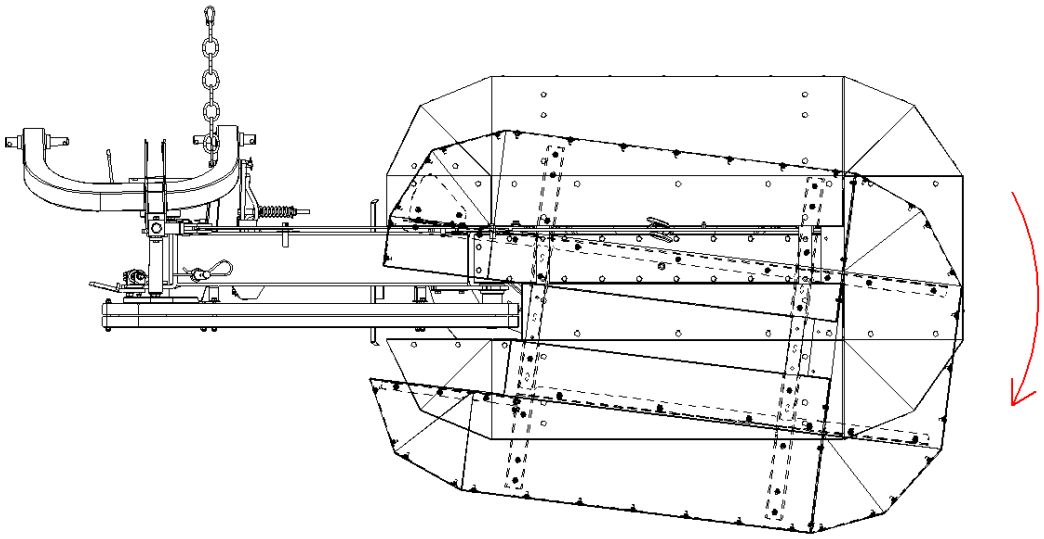

Figure 20 The mower pushed away after activation of break-back device

Initial length of the tensioned spring of the break-back device, including the spring seats, equals L = 160 mm (shown in Fig. 21). Construction of the break-back device is described in the paragraph “13.2.5.4 Break-back device”. The length of the tensioned spring must be adjusted, if required.

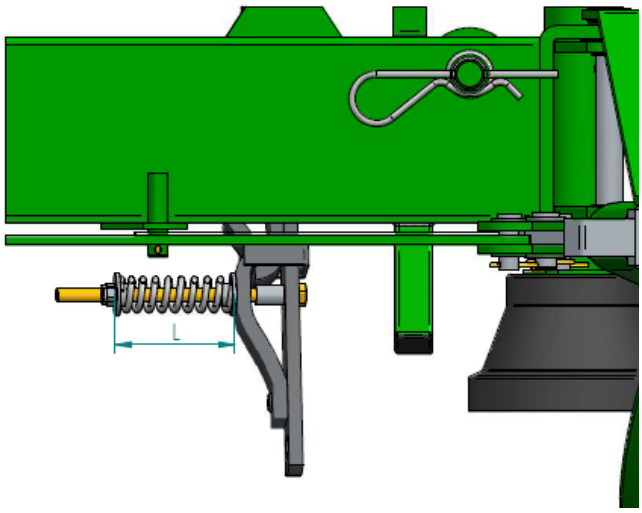

Figure 21 Break-back device - initial tension of the spring

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7. Operation and maintenance

All the machine operations can be performed by the operator of the vehicle, to which the machine is attached, providing that he/she has proper authorization to operate this vehicle.

After disconnecting the machine from a vehicle, it should be stored under shelter on a flat and hard surface, supported on its foot.

Before connecting the machine to a tractor, the operator must always check the condition of the machine and prepare it for commissioning. To do so, he/she should:

- Read carefully this manual and follow the guidelines contained herein,
- Learn and understand the operation of the machine,
- Perform visual inspection of all elements of the machine, looking for any mechanical damage,
- Lubricate the machine in accordance with the recommendations,
- Check the mechanical condition of the pins in the hitch system, and of the cotter pins.
- Check oil level in the gearbox,
- Check tension of the V-belts,
- Check condition of the bolted joints,
- Check condition of the cutting blades.

Use only the original spare parts provided by the manufacturer, to guarantee safe and reliable operation of the machine. The use of unoriginal spare parts or parts, which have been repaired, will void the warranty.

If all the above listed steps have been performed, and the mechanical condition of the machine does not raise any doubts, it can be connected to the tractor.
Aggregating of the machine with the tractor is shown in paragraph 6.2 Aggregating – connecting the mower.

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7.1. Adjustment of the V-belts tension

The mower is equipped with a spring loaded belt tensioner. Correct tension of the belts can be checked through the inspection hole (Fig. 23). Properly tightened belts should give in slightly under the pressure of the operator's hand.

In the event of damage to, or an overextension of even one of the belts, you must always replace the entire set of belts (using the belts with the same markings and the same brand).

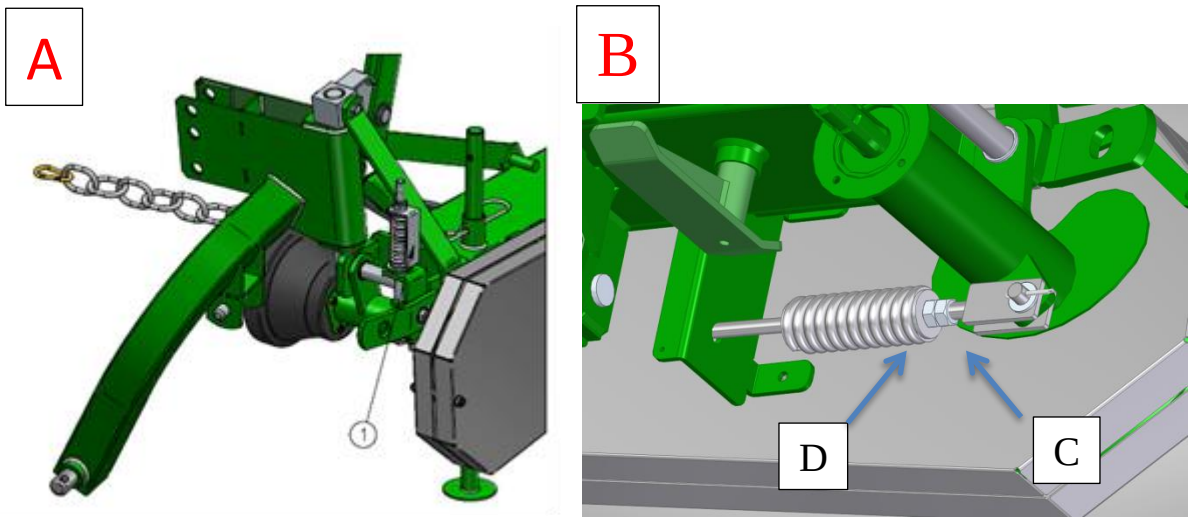

Figure 22 Adjustment of the V-belts tension: A) Belt tensioner B) for Eco CUT 210 version

When adjusting the belt tension on the 2.10m mower (Fig. 22 B), unscrew the lock nut (Fig. 22 - C), adjust the nut closer to the spring (Fig. 22 - D), then tighten the lock nut (Fig. 22 - C) against lock nut "D".

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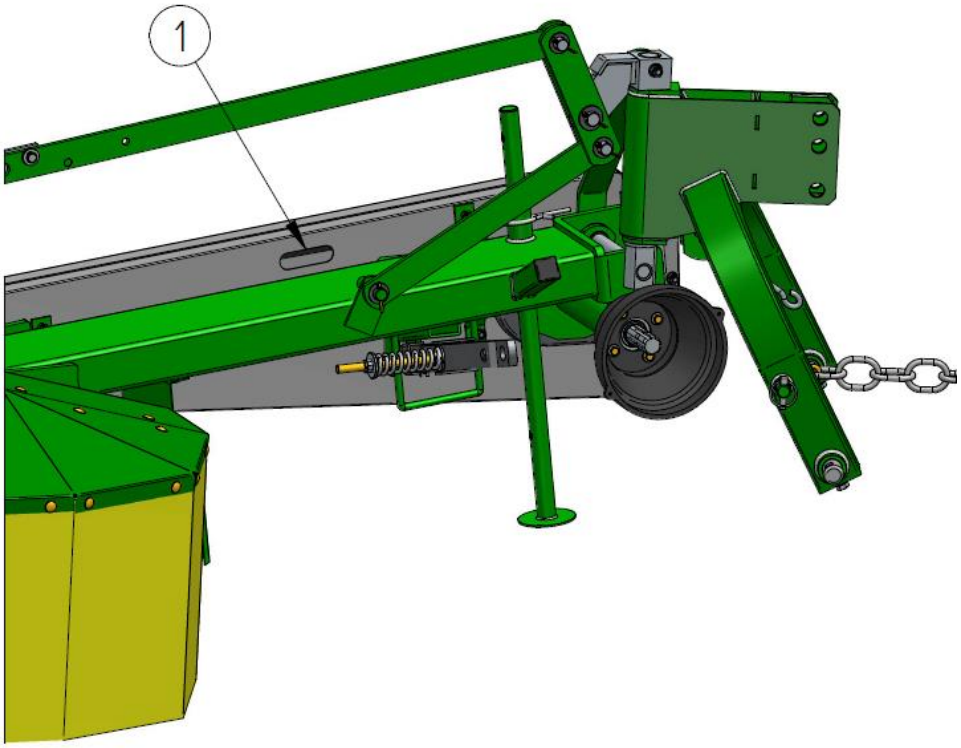

Figure 23 Checking of the proper adjustment of V-belts tension: 1) inspection opening for checking the tension of the belts

7.2. Replacing the blades:

The cutting blades must be replaced in compliance with the specific safety rules:

1. Use only the original and functional parts for the cutting unit.
2. Each time the replacement must include the full set. You must remember about the uniform distribution of the rotating masses, to ensure the uniform wear of the blades.
3. Check the condition of the related components: holder, knife. Replace them with new ones if any damage occurs.
4. When tightening bolted joints observe the values in Table 3, to ensure appropriate tightening torque of screws and nuts.

Worn out or damaged elements must be obligatorily replaced with new ones.

Working with damaged elements of the working disc, holders or blades, is strictly prohibited.

Inspection of the blades should be performed every time before you start working and after each instance of hitting an obstacle, e.g. stone, wood, metal. It is mandatory to wear protective gloves.

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Figure 24 Replacing blades:

The replacement or turning of a blade must be done with the special wrench, according to Fig. 24. Insert the wrench between the working disc and holder in such a way that the round edge of the wrench is placed above the blade's holder.
Loosen up the holder up to the point, when the blade can be removed.
After checking the blades and holders, install blades in the same spot or in the adjacent disc (rotating in the opposite direction), under condition that they are not damaged, or replace them with new ones, then release the wrench's pressure on a holder. After replacing the holders and blades, pay attention to their proper position on the particular discs, which is shown in the following figure.

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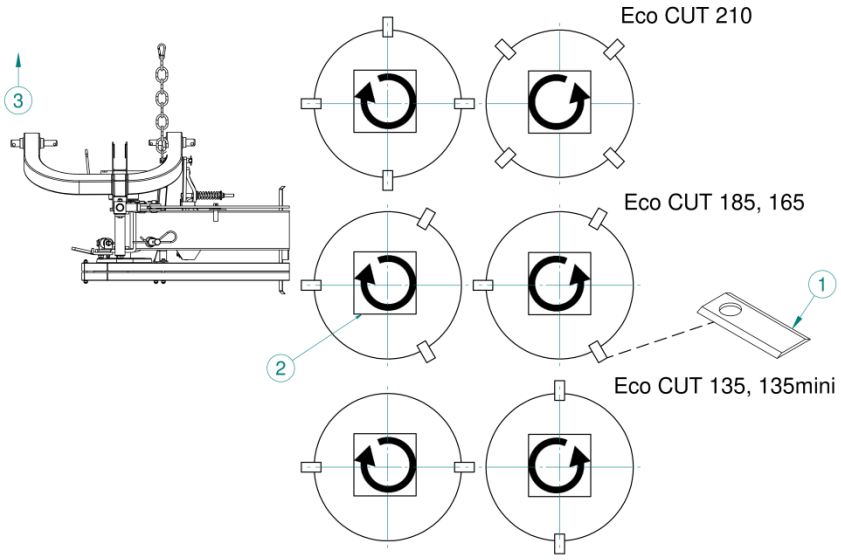

Figure 25 Diagram of the proper mounting of holders and blades on the working discs: 1) Cutting blade, 2) Direction of cutting discs rotation, 3) Direction of mowing

7.3. Maintenance after work

The machine should be washed always after work. **Wash under pressure the lower part of the working unit (holders, blades, resistance disc area),** and park the machine on a flat, hard surface. Carry out an inspection of connections between the parts and units. Damaged and worn out parts replace with new ones. Check all the bolted joints, tighten the loose bolts and nuts according to Table 3.

Please note:

Manufacturer of the machine, Talex Company, provides all spare parts.

Strength	6.8	8.8	10.9	12.9
Metric thread	Tightening torque [Nm]			
M5	4.5	5.9	8.7	10
M6	7.6	10	15	18
M8	18	25	36	43
M10	37	49	72	84
M12	64	85	125	145
M14	100	135	200	235
M16	160	210	310	365
M18	220	300	430	500
M20	310	425	610	710
M22	425	580	820	960
M24	535	730	1050	1220

Table 3 Tightening torque values for bolts and nuts.

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It is also necessary to check the tension of V-belts, replace the damaged ones with new (always replace the whole set of belts). Adjust the whole set in accordance with the instruction - 7.1 Adjustment of the V-belts tension.
Lubricate the mower according to the instruction – 7.4 Lubrication.
All safety signs placed on the machine should be kept clean.

7.4. Lubrication

All maintenance and servicing works should be done with the switched off engine of the vehicle, released pressure and stopped rotations, and with both, the vehicle and machine, properly secured.

Avoid contact with oil!

Use the personal protective equipment: protective clothing, footwear, gloves and goggles.

Articulated telescopic shaft should be operated and lubricated strictly according to the operating instructions provided by the manufacturer of the shaft.

To ensure proper operation of the gearbox:

I) Every 10 hours check the oil level, using clean rod put into the oil fill opening (figure A below). The mower should be placed on a flat surface.
The oil level should be between min. 20mm to max. 30mm. measured from the bottom of the unit.

II) Oil level should be additionally checked after every season, and should be refilled to the levels given below.

III) **Oil does not require changing – only refilling. If the user wants to change the oil, old oil has to be sucked out through the refill plug on top. (Figure A)**

The required quantity of oil in the gearbox:

A. 2.10m ~6 l
B. 1.85m ~ 5 l
C. 1.65m ~ 4 l
D. 1.35m ~ 3.5 l
E. 1.35mini ~ 3,5 l

Figure A – oil fill plug

The machine manufacturer recommends using the oil: SP460 (based on 80W90) + admixture grease LT-43.
In the event the oil level gets too low, find and repair the leak then fill in the required quantity.

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7.5. End of season servicing

Includes all the tasks listed in the paragraph: 7.3 Maintenance after work. In addition, the machine should be stored under shelter, on a flat and hard surface and supported on its foot. Attention should be paid to the tightness of paint coat. In the event of paint losses, you must clean these spots and fill in the losses with the new coat of protective paint.

V-belt tension in the off-season should be reduced (belts should be loose). Prior to commencing the next season's work, the belts must be properly tensioned again.

In the case of leaks from the hydraulic system, the damaged parts and components must be replaced to avoid contamination of the environment.

Hydraulic lines, regardless of their external condition, must be replaced after 5 years.

7.6. Possible problems and solutions

Problem symptoms	Problem cause	Possible solution
Increased vibration of mower	Unevenly worn out or damaged parts of cutting unit	Units with worn out elements replace with new complete sets
Bad cutting and clogging of the cutting unit	Dull or damaged blades	Replace dull or damaged blades with new complete sets Blades dull on one side only install on the disc with the opposite direction of rotation
V-belts slippage	Poorly tensioned belts Belts are wet Belts are worn out Belts of unequal length	Check and adjust the belts tension Avoid mowing when it's raining Replace with new complete sets of belts Within one set of belts, there should be belts made by one manufacturer and bearing the same dimension markings

During normal operation the cutting unit leans back, due to the action of the break-back device	Poorly tightened or damaged spring in the break-back device	Check and adjust the spring tension; replace if damaged
	Local bumps, e.g. hardened molehills	Reduce speed, and tilt the cutting unit backwards

Table 4 Possible problems and solutions

8. Disassembly, utilization and environment protection

Protect your hands (and body) against injuries, and the harmful effects of lubricants and oils.

Use protective gloves and tools which are in good mechanical condition.

Machine elements, which when dismounting can move or rotate, must be properly secured.

Worn or damaged parts removed during repair (disassembly) should be stored in a separate location, with a limited access for persons and animals. Worn out metal parts must be delivered to the scrap metal collection points. Worn out plastics must be delivered to the chemical waste collection (utilization) points.

When filling up or replacing the oil, avoid its spillage. Store the waste oil in sealed containers, and periodically deliver it to the special collection (utilization) points.

Abandoned parts or machine components, and spilled oil, may pose a risk of accident, cause an environmental pollution and violate applicable laws.

9. Spare Parts Catalogue

9.1. How to order spare parts

Each order form should include the following:

- address of the buyer,
- exact shipping address (place where machine is located or other means for delivery collection),
- terms of payment,
- serial number and year of production of the mower (according to the plate located on the machine),
- spare part number,
- spare part name,
- number of parts ordered.

Spare parts must be ordered at the points of sale of the machines or from the manufacturer.
Use only the original spare parts provided by the manufacturer to guarantee safe and reliable operation of the machine. The use of unoriginal spare parts or parts, which have been repaired, will void the warranty.

The manufacturer reserves its right to make changes in the construction of parts presented on the particular assembly drawings in this spare parts catalogue. Such changes may not always be updated in the User Manual and in the spare parts catalogue. Individual drawings may differ from the actual look of the parts.

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Spare Parts Catalogue

Eco CUT Rotary Mower

210; 185; 165; 135 and 135mini
and versions with hydraulic cylinder: 210, 185, 165, 135

ECO CUT 210 parts catalogue starts on page 65

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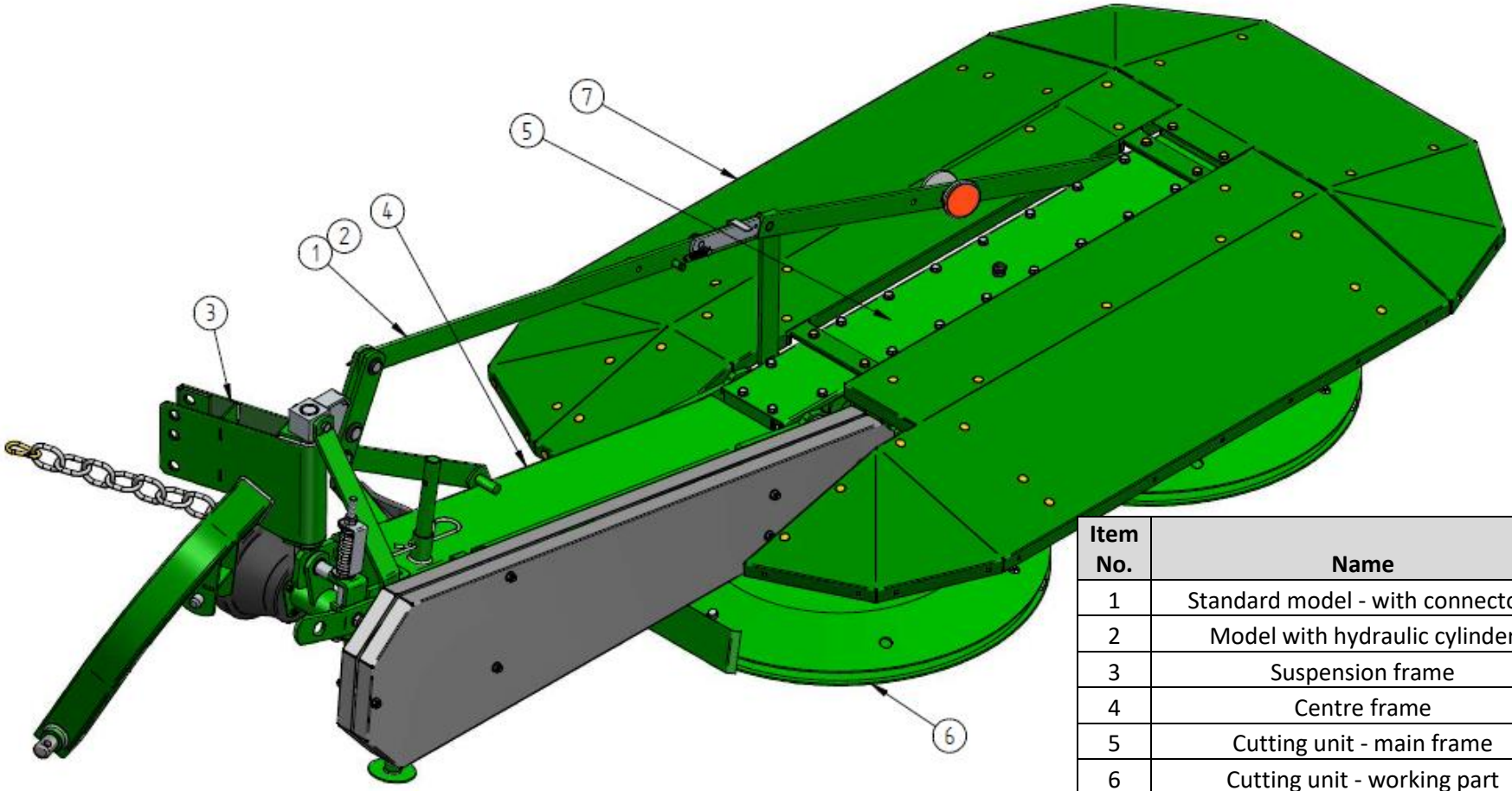
9.2. General construction



Item No.	Name	Component No.
1	Standard model - with connectors	**Chapt . 9.2.1**
2	Model with hydraulic cylinder	**Chapt . 9.2.2**
3	Suspension frame	**Chapt . 9.2.3/4**
4	Centre frame	**Chapt . 9.2.5**
5	Cutting unit - main frame	**Chapt . 9.2.6**
6	Cutting unit - working part	**Chapt . 9.2.7**
7	Set of covers	**Chapt . 9.2.8**

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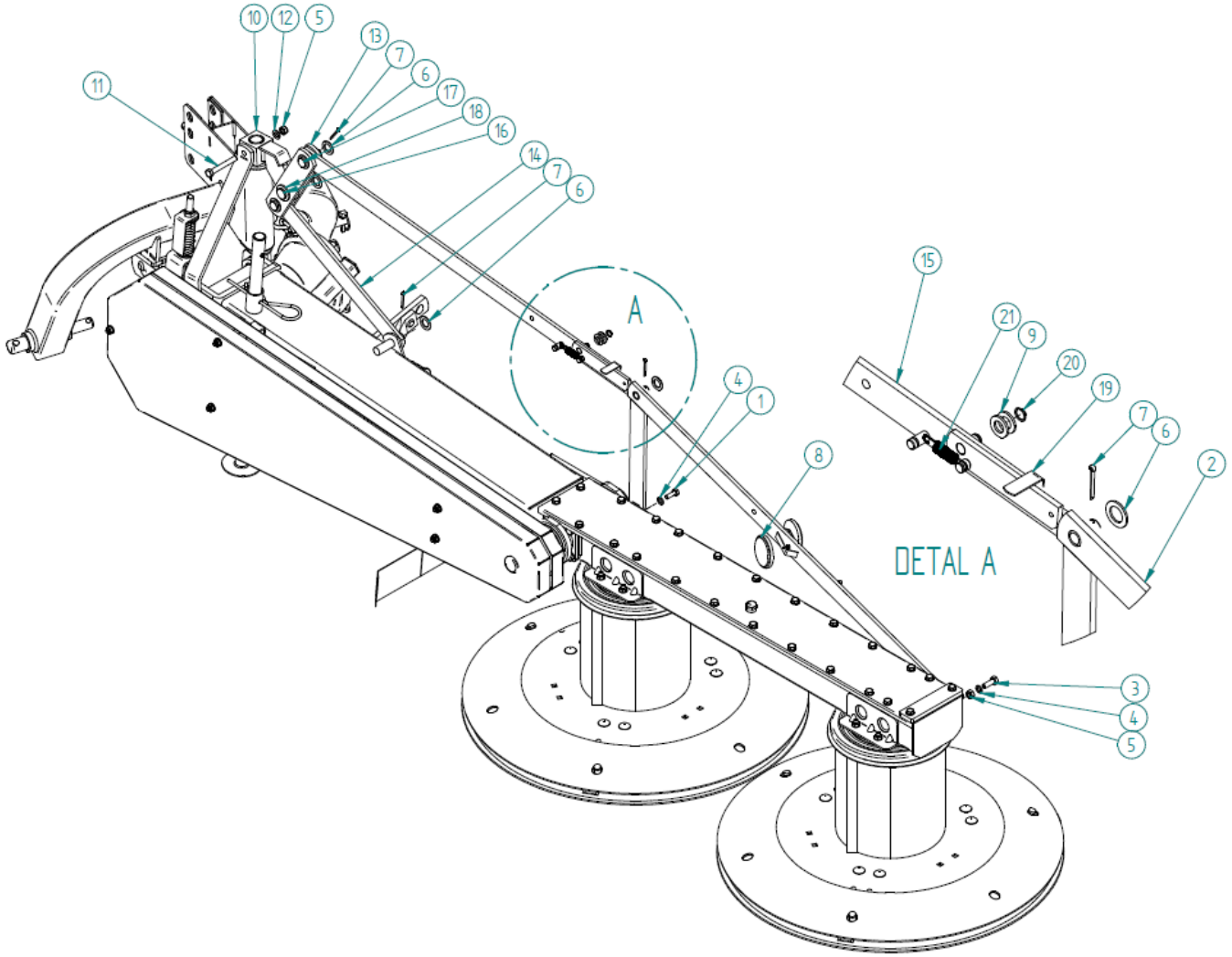
9.2.1. Standard model – with metal bars



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Item No.	Name	Part no.	Quantity/Type of mower			
			L-1350 mini	L-1350	L-1650	L-1850
1.	Bolt M12*35 - 8.8 galv.	T000756	1			
2.	Scythe-connector	T000025	0	0	0	1
	Scythe-connector	T000023	0	0	1	0
	Scythe-connector	T000022	1	1	0	0
3.	Bolt M12* 35 - 8.8 galv.	T000756	1			
4.	Spring washer 12 galv.	T000451	2			
5.	Self-lock nut M 12	T000291	2			
6.	Simple washer 22 galv.	T000463	6			
7.	Linchpin 5*40 galv.	T000985	5			
8.	Reflective device orange 75UW-P	T000873	2			
9.	Simple washer 16 galv.	T000460	2			
10.	Forged head (NS 5042/02-008/3	T000053	1			
11.	Bolt M12*90 - 8.8 galv. n. thread	T000763	1			
12.	Simple washer 12 galv.	T000458	1			
13.	Connector link 5042/02-010/3	T000173	2			
14.	Straight clevis 5042/02-009/6	T000690	1			
15.	Front milled connector 5042/02-007/0	T000024	0	0	0	1
	Milled connector 5042/02-007/0	T000018	1	1	1	0
16.	Mower pin 25*55 galv.	T000695	1			
17.	Mower pin 22*55 galv.	T000694	2			
18.	Simple washer 25 galv.	T000464	2			
19.	Interlock set 5042/02-022/0	T000510	1			
20.	Circlip 16z	T000407	1			
21.	Interlock spring 5042/02-052/0 galv.	T000666	1			

*galv. – galvanized coating

Table 5 Standard model - with connectors

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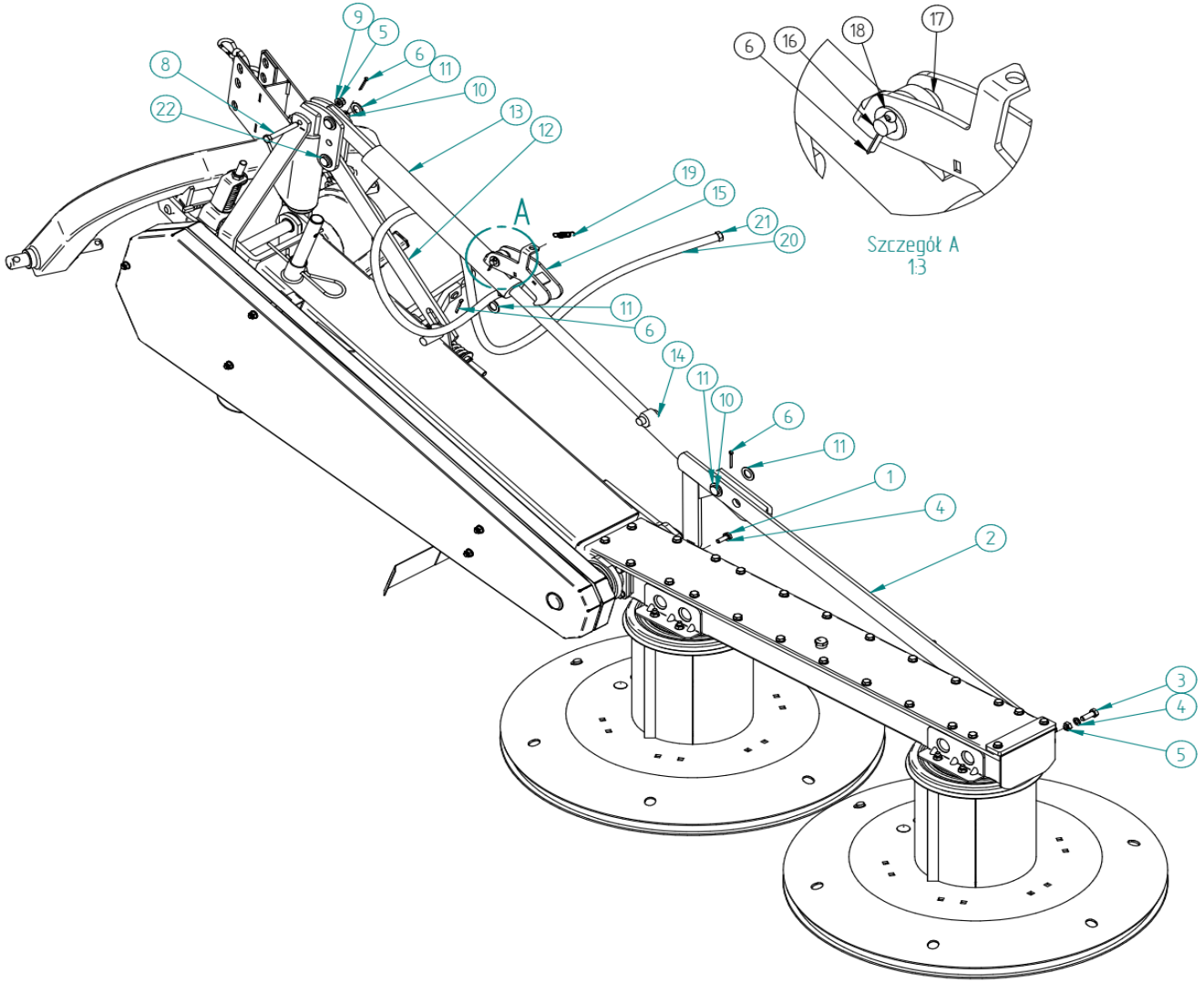
9.2.2. Model with hydraulic cylinder



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Item No.	Name	Part no.	Quantity/Type of mower		
			L-1350	L-1650	L-1850
1	Bolt M12*35 - 8.8 galv.	T000756	1		
2	Scythe-connector – hydraulic	T000021	0	0	1
		T002098	0	1	0
		P001865	1	0	0
3	Bolt M12*35 - 8.8 galv.	T000756	1		
4	Spring washer 12 galv.	T000451	2		
5	Self-lock nut M 12	T000291	2		
6	Linchpin 5*40 galv.	T000985	5		
7	Hydraulic head	T000051	1		
8	Bolt M12*90 - 8.8 galv. n. thread	T000763	1		
9	Simple washer 12 galv.	T000458	1		
10	Mower pin galv.	T000694	0	2	2
		T000695	2	0	0
11	Simple washer 22 galv.	T000463	7		
12	Diagonal arm	T000596	0	1	1
		P001869	1	0	0
13	Hydraulic cylinder	T000031	1, comes as one unit Extension for 135: T002744		
14	Threaded extension	T000498			
15	Cylinder closure	P880211	1		
16	Pin Ø14	T000696	1		
17	Cylinder bushing				
18	Simple washer 14 galv.	T000459	1		
19	Interlock spring 5042/02-052/0 galv.	T000666	1		
20	Cable P51/P52 M18x1.5/M16x1.5 2 SC L- 2500	T000564	1		
21	Hydr. valve plug Euro M18*1.5	T000995	1		
22	Pivot pin	T000694	1		

*galv. – galvanized coating

Table 6 Model with hydraulic cylinder

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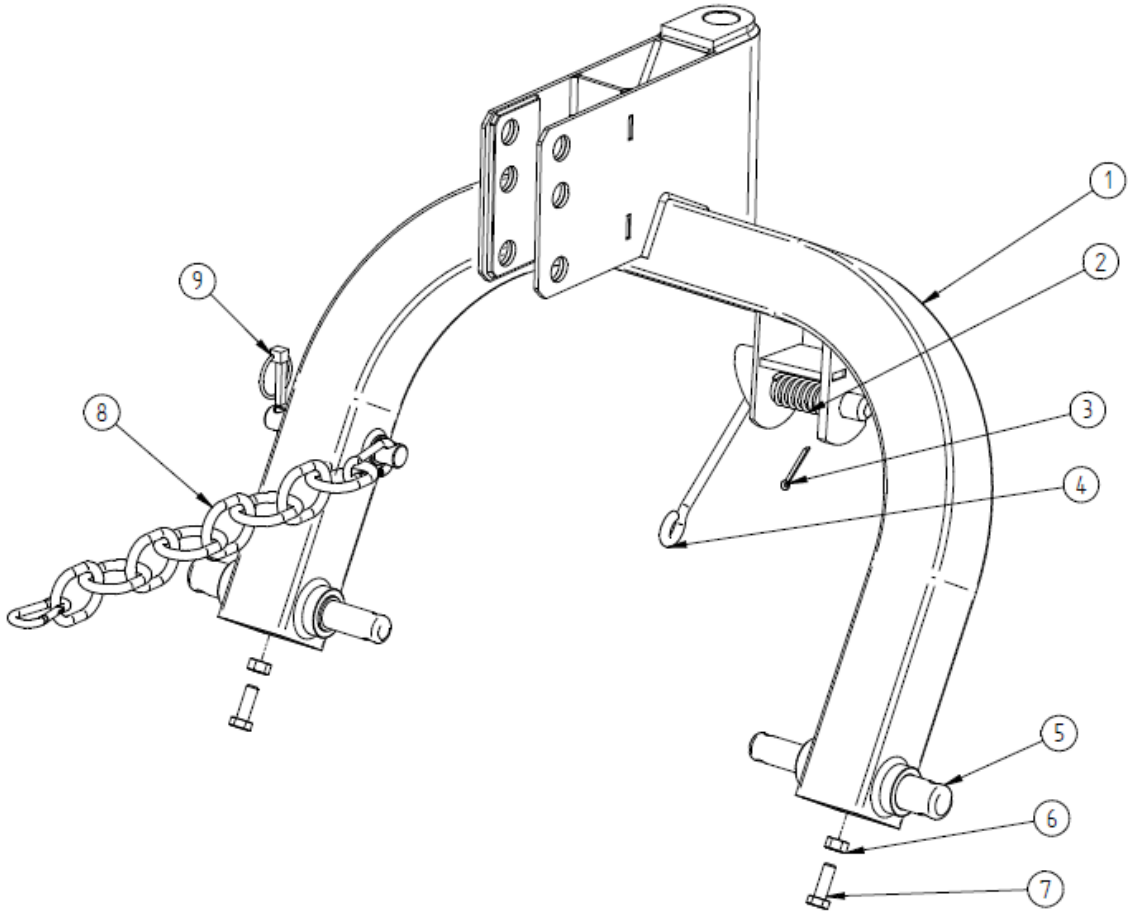
9.2.3. Suspension frame 1.85m / 1.65m



Item No.	Name	Part no.	Quantity/Type of mower	
			L-1650	L-1850
1.	Suspension frame	P060134	1	0
		P050134	0	1
2.	Corner closure spring 50/51-105/0 galv.	T000674	1	
3.	Linchpin 5*40 galv.	T000985	1	
4.	Pin locking suspension frame	T002165	1	
5.	Lower suspension pin	P013082	2	
6.	Self-lock nut M 12 galv.	T000291	2	
7.	Bolt 6-cat.M12x35-8.8-galv.	T000756	2	
8.	Chain set 5042/02-027	T000166	1	
9.	Universal plug 42/37-038/1 (0054280433)	T000981	1	

*galv. – galvanized coating

Table 7 Suspension frame

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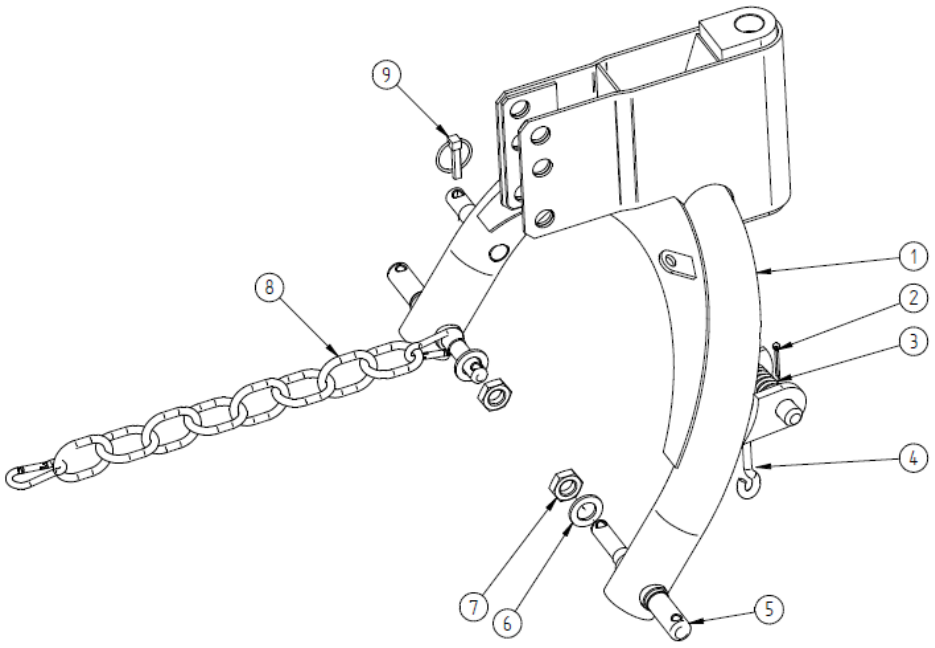
9.2.4. Suspension frame 1.35m / 1.35mini



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Item No.	Name	Part no.	Quantity/Type of mower	
			L-1350	L-1350 mini
1.	Suspension frame	T000593	1	
2.	Linchpin 5*40 galv.	T000985	1	
3.	Corner closure spring 50/51-105/0 galv.	T000674	1	
4.	Pin locking suspension frame	T002165	1	
5.	Suspension pin 1.35m/1.65 set.	P001309	2	
6.	Simple washer 24 galv.	T000464	2	
7.	Nut M24x1.5	T000281	2	
8.	Chain set 5042/02-027	T000166	1	
9.	Universal plug 42/37-038/1 (0054280433)	T000981	1	

*galv. – galvanized coating

Table 8 Suspension frame 1.35m / 1.35mini

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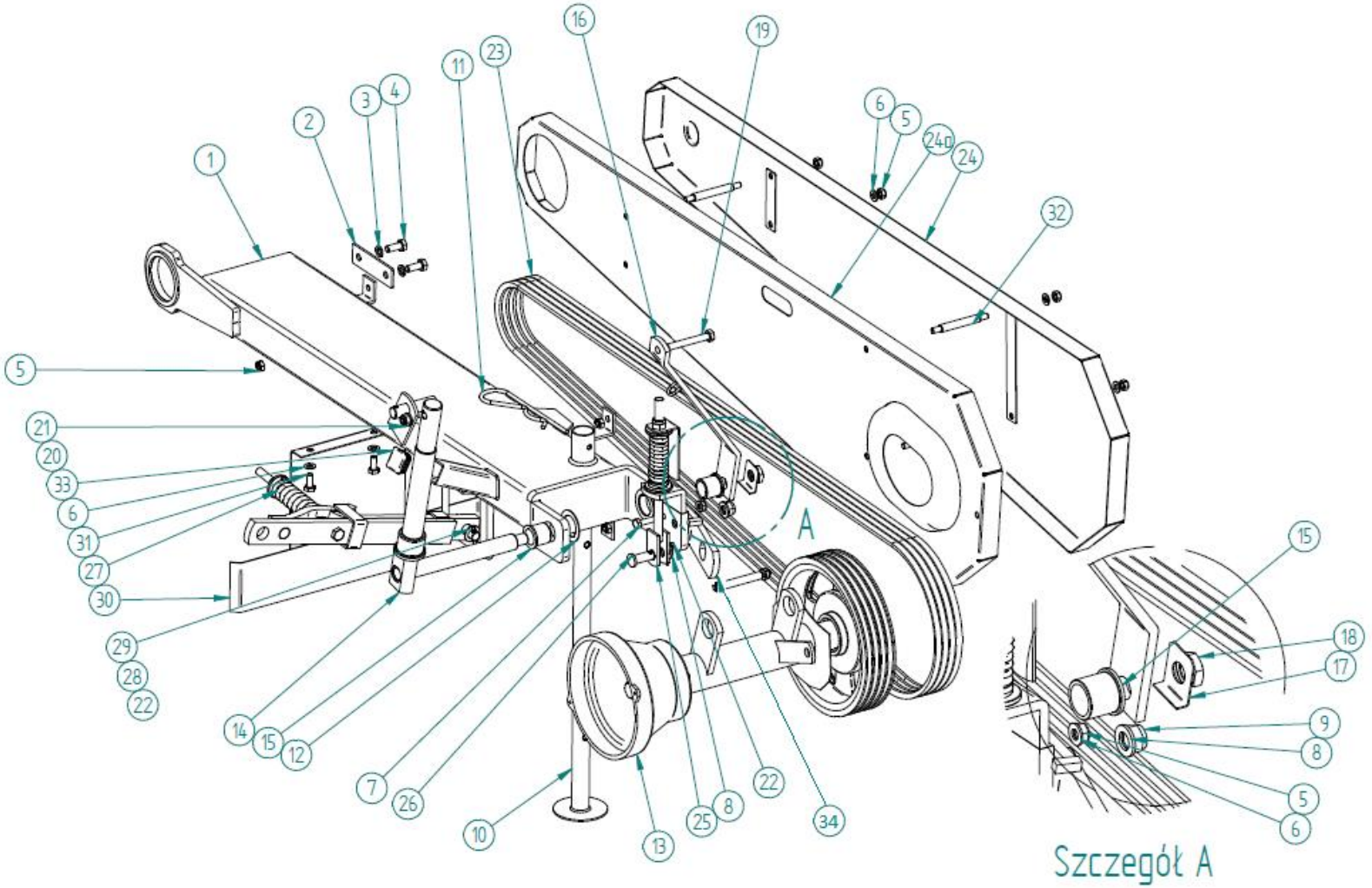
9.2.5. Centre frame



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Item No.	Name	Part no.	Quantity/Type of mower			
			L-1350 mini	L-1350	L-1650	L-1850
1.	Centre beam	T000015	0	0	0	1
		T000012	0	0	1	0
		T000013	0	1	0	0
		T000014	1	0	0	0
2.	Rear plate cover	T000252	1			
3.	Spring washer 12 galv.	T000451	2			
4.	Bolt M12*30 - 8.8 galv.	T000755	2			
5.	Self-lock nut M10	T000292	5	4	4	5
6.	Simple washer 10 galv.	T000456	3	2	2	3
7.	Bolt M10*40 - 8.8 galv.	T000745	0	0	0	1
8.	Simple washer 16 galv.	T000460	2	1	1	2
9.	Self-lock nut M16	T000294	1	0	0	1
10.	Foot 5042/02-076/0	P300066	1			
11.	Linchpin Beta safety pin 5042/02-028/9	T000008	1			
12.	KD_SB 17.03 shim washer	P000929	2 or 3, as required			
13.	Head tube	**Chapt. 9.2.5.2**	1			
14.	Articulated joint axle 5042/02-013/1	T000372	1			
15.	Articulated joint bushing 5042/02-038/9(30-054)	T000857	2			
16.	Z-	T000688	1			
17.	Washer M20 star special	P132170	1			
18.	Nut M20*1.5 low galv.	T000273	1			
19.	Bolt M12*90 - 8.8 galv. n. thread	T000763	1			
20.	Simple washer 12 galv.	T000458	1			
21.	Self-lock nut M12	T000291	1			
22.	Linchpin 5*40 galv.	T000985	2			
23.	V-belt SPA 3185	T000390	0	0	0	4
	V-belt ROVEN SPA 2932	T000389	0	0	4	0
	V-belt ROVEN SPA 2832	T000388	0	4	0	0
	V-belt HA 2100	T000379	4	0	0	0
24.	V-belts cover 1.85m external	P050167	0	0	0	1
24a.	V-belts cover 1.85m internal	P050168				
24.	V-belts cover 1.65m external	P060167	0	0	1	0
24a.	V-belts cover 1.65m internal	P060169				
24.	V-belts cover 1.35m external	P300072	0	1	0	0
24a.	V-belts cover 1.35m internal	P300075				
24.	V-belts cover 1.35mini external	P000906	1	0	0	0
24a.	V-belts cover 1.35mini internal	P000908				
25.	V-belt tensioner	**Chapt. 9.2.5.3**	1			
26.	Mower pin 16 galv.	T000691	1			
27.	Break-back device	**Chapt. 9.2.5.4**	1			
28.	Mower pin 18*65 galv.	T000693	1			
29.	Washer 18 galv.	T000461	1			

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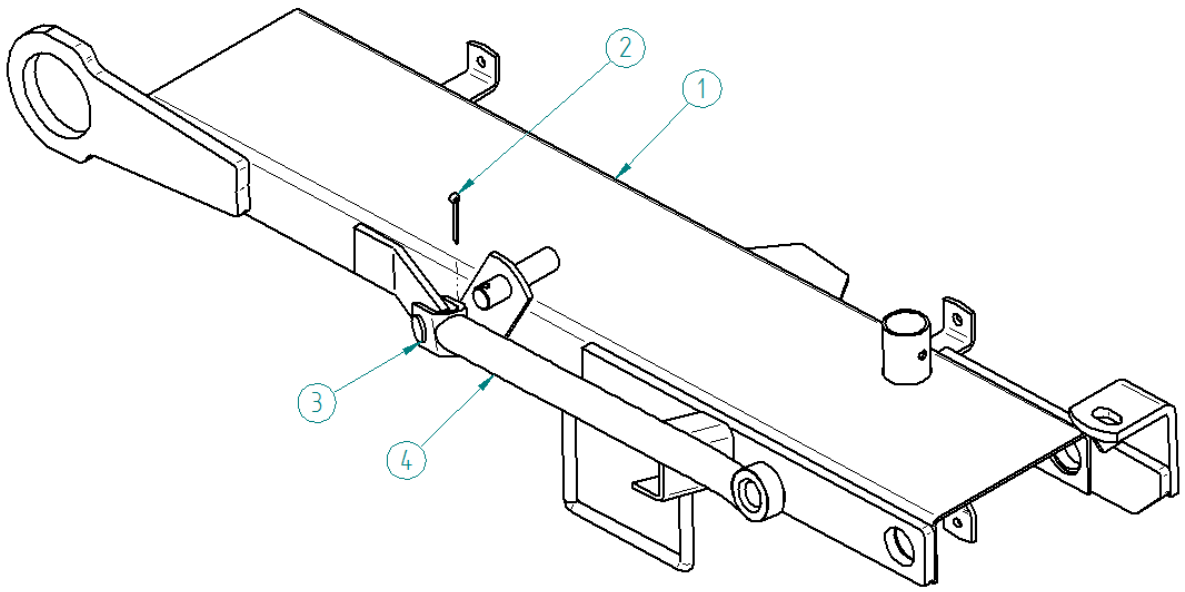
30.	Front cover	T000364	1			
Item No.	**Name**	**Part no.**	**Quantity/Type of mower**			
			L-1350 mini	**L-1350**	**L-1650**	**L-1850**
31.	Bolt M10*25 - 8.8 galv.	T000740	2			
32.	Stud-bolt M10x14x120GW (cover stud)	T000728	4			
33.	Profile end cap 40x40x3.0	T000971	0	0	1	1
34.	Hitch lock	P000093	0	0	0	1

*galv. – galvanized coating

Table 9 Suspension frame

9.2.5.1. Centre frame - mower 1.35



Item No.	**File name**	**Part no.**	**Quantity/Type of mower**
			1.35m
1	Centre beam 1.35 mini	T000014	1
2	Linchpin 5*40 galv.	T000985	1
3	Mower pin 18*65 galv.	T000693	1
4	Transport beam 5042/02-036/3	T000016	1

*galv. – galvanized coating

Table 10 Centre frame - mower 1.35

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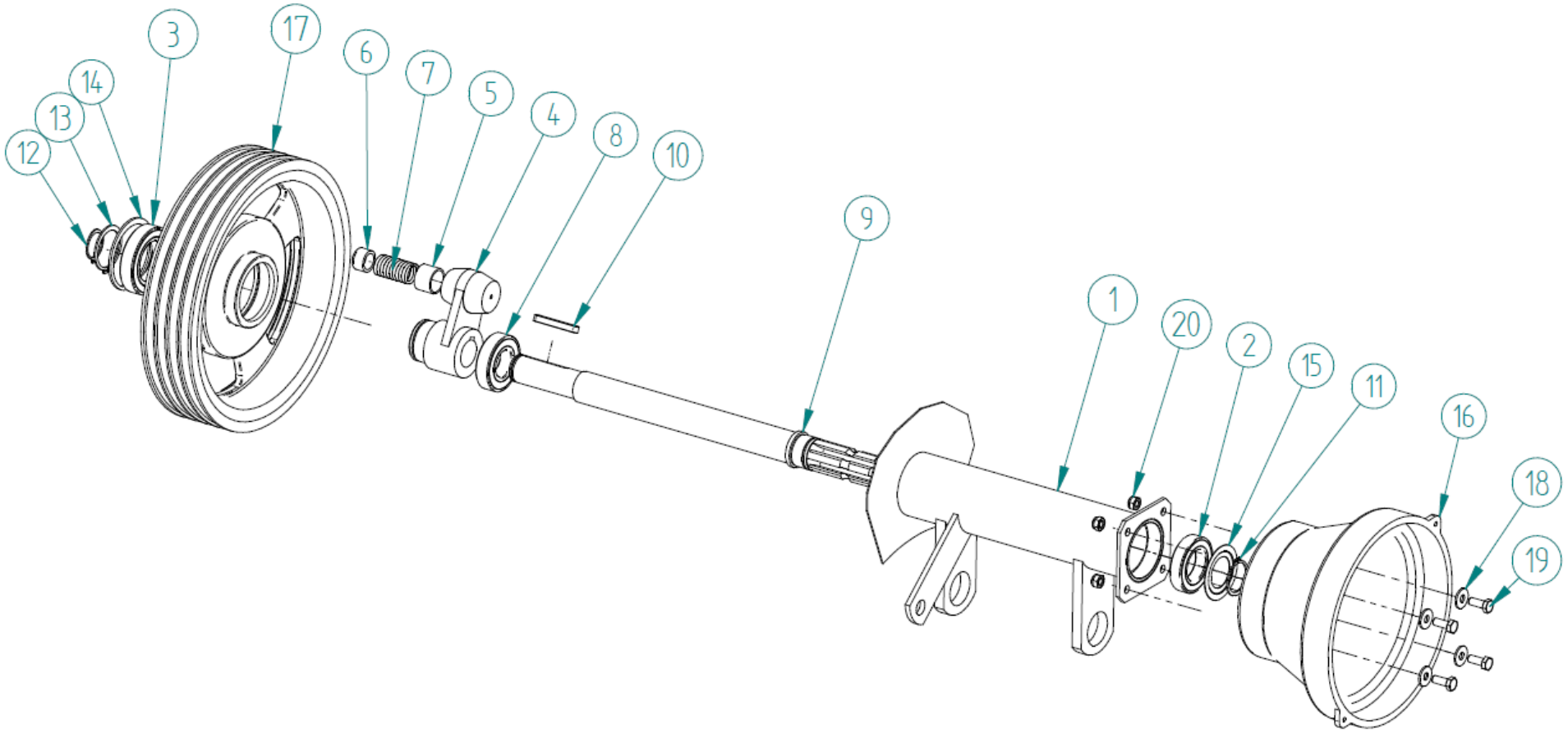
9.2.5.2. Mower drive assembly



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Item No.	Name	Part no.	Quantity / Type of mower			
			L-1350 mini	L-1350	L-1650	L-1850
1.	Head tube 5042/02-068/4	T000624	1			
2.	Bearing 6007 ZZ	T000192	1			
3.	Bearing 6009 ZZ	T000195	1			
4.	Driver 5042/02-017/2	T000958	1			
5.	Driver bushing 5042/02-020/5	T000867	1			
6.	Driver Pin 5042/02-019/8	T000697	1			
7.	Clutch spring 5042/02-021/8 Black	T000667	1			
8.	Bearing 6206 ZZ	T000197	1			
9.	Head shaft 5042/02-060/2	T000911	1			
10.	Woodruff key 8x7x56 5042/02-061	T000954	1			
11.	Circlip 35z	T000412	1			
12.	Circlip 30z	T000410	1			
13.	Circlip 45z	T000414	1			
14.	Circlip 75W	T000420	1			
15.	Head ring	T000404	1			
16.	PTO cover KR 5042/02-071/0 (30-062)	T000369	1			
17.	Large pulley	T000101	0	0	1	1
		T000099	1	1	0	0
18.	Extensional washer M8	T000443	4			
19.	Bolt M8*20 - 8.8 galv.	T000804	4			
20.	Self-lock nut M8	T000256	4			

*galv. – galvanized coating

Table 11 Mower drive assembly

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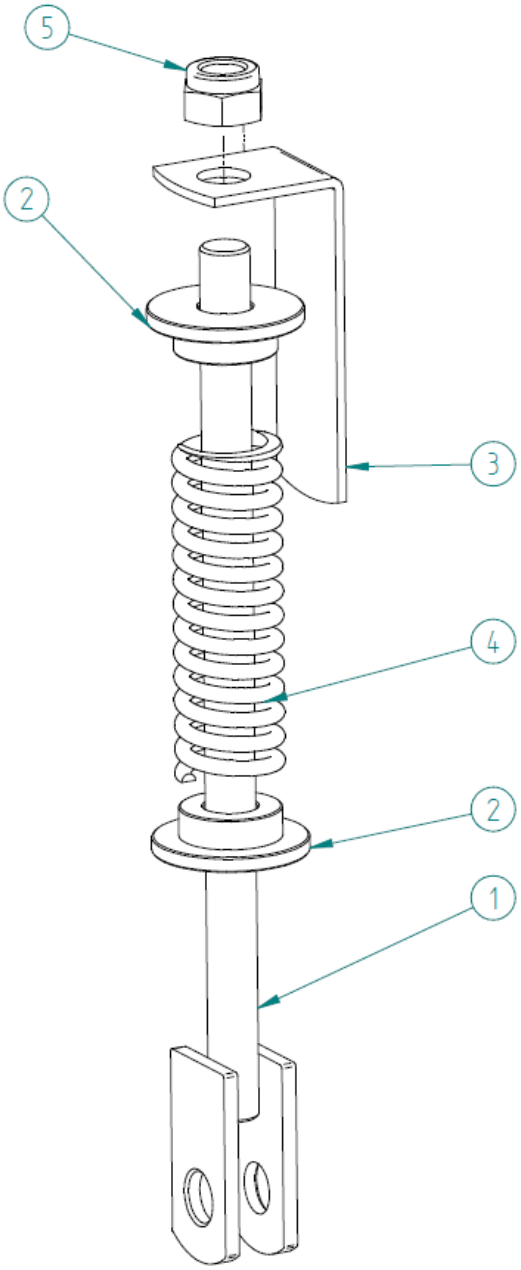
9.2.5.3.V-belt tensioner



Item No.	Name	Part no.	Quantity / Type of mower
			1.85m/1.65m/1.35m/1.35mini
1	Tensioner rod 5042/02-024/6	T000496	1
2	Tensioner spring seat 45/17*15 KD_Ga 33.01	T000637	2
3	Angle bar 5042/02-040/9	T001116	1
4	Tensioner spring 5042/02-050/0 galv.	T000663	1
5	Self-lock nut M16	T000294	1

*galv. – galvanized coating

Table 12 V-belt tensioner

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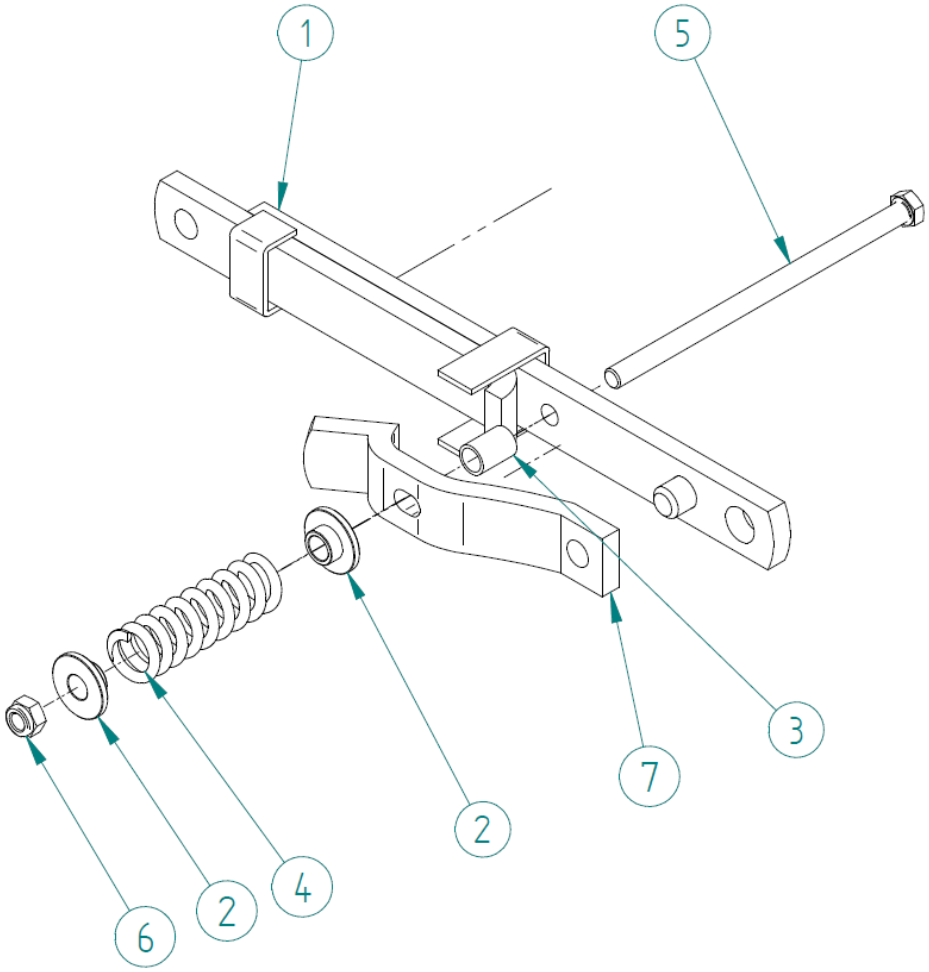
9.2.5.4.Break back device



Item No.	Name	Part no.	Quantity/Type of mower
			1.85m/1.65m/1.35m /1.35mini
1	Welded lock	T000962	1
2	Break back spring seat 45/17*15 KD_Bk 23.14	T000637	2
3	Lock bushing	P700127	1
4	Break back spring 5036/02-035.0 galv. MAZ.5011	T000651	1
5	Bolt 14*265 galv. 5042/02-034/8	T000724	1
6	Self-lock nut M14	T000293	1
7	Break-back device latch 5042/02-032/2	T000979	1

*galv. – galvanized coating

Table 13 Break back device

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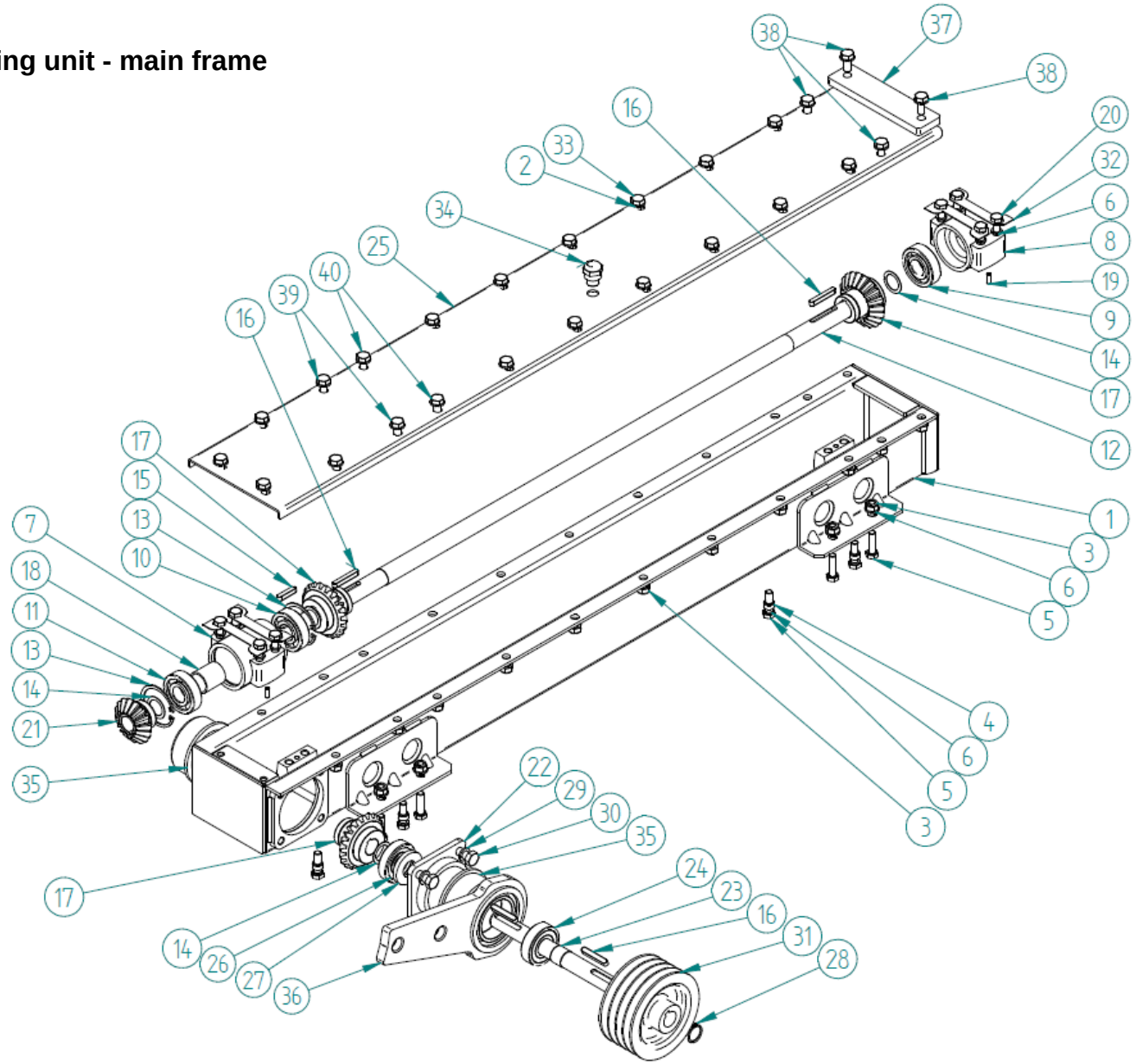
9.2.6. Cutting unit - main frame



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Item No.	Name	Part no.	Quantity / Type of mower			
			L-1350 mini	L-1350	L-1650	L-1850
1.	Main frame	P720050	0	0	0	1
		T000588	0	0	1	0
		T000587	1	1	0	0
2.	Simple washer 10 galv.	T000456	20	20	24	24
3.	Self-lock nut M10	T000292	22	22	26	30
4.	Sealing bushing 5042/01-033/7(30-058)	T000866	8	8	8	4
5.	Bolt M10*35 - 8.8 galv.	T000743	12			
6.	Spring washer 10 galv.	T000450	16	16	16	20
7.	Bearing housing large	T000325	0	0	0	1
		T000324	1	1	1	0
8.	Bearing housing small	T000327	0	0	0	1
		T000326	1	1	1	0
9.	Bearing 6305	T000184	1	0	0	0
	Bearing 6205	T000196	1	1	1	0
10.	Bearing 6305	T000184	1			
11.			0	0	0	1
12.	Frame shaft	T000923	0	0	0	1
		T000922	0	0	1	0
		T000921	1	1	0	0
13.	Circlip 62W	T000418	2			
14.	Adjusting washer 25	T000444	4, as required 0.3; 0.5 or 1mm			
15.	Parallel key 8×7x36	T000951	1			
16.	Parallel key 8*7*50	T000945	4			
17.	Sprocket large	T000117	0	0	0	3
		T000116	3	3	3	0
18.	Space bushing of frame shaft	P720033	0	0	0	1
19.	Spring pins 6*16	T000086	4			
20.	Bolt M10*60 - 8.8 galv. partial thread	T000747	4	4	4	8
21.	Sprocket small	T000112	0	0	0	1
		T000114	1	1	1	0
22.	Attachment hub 5042/01-027/6	T000395	1			
23.	Attachment hub 5042/01-026/3	T000919	1			
24.	Bearing 6305 zz	T000212	1			
25.	Cover	T001709	0	0	0	1
		T000487	0	0	1	0
		T000486	1	1	0	0
26.	Bearing 30305A	T000194	1			
27.	Seal 25x52x10	T000886	1			
28.	Circlip 25z	T000424	1			
29.	Spring washer 12 galv.	T000451	4			

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Item No.	Name	Part no.	Quantity / Type of mower			
			L-1350 mini	L-1350	L-1650	L-1850
30.	Bolt M12*30 - 8.8 galv.	T000755	4			
31.	Small pulley	T000103	0	0	1	1
	Small pulley 1.35m	T000104	1	1	0	0
32.	Bendable washer 5042/01-062	T000449	2	2	2	4
33.	Bolt M10*25 - 8.8 galv.	T000740	14	14	18	18
34.	Little valve set 5042/01-044/1	T000993	1			
35.	Carrier bushing	T000855	0	0	0	2
		T002580	2	2	2	0
36.	Rear plate	T000435	1	1	1	0
		T002099	0	0	0	1
37.	Flat bar spacer	P300118	1			
38.	Bolt M10*35 - 8.8 galv.	T000743	4			
39.	Bolt M10*35 - 8.8 galv.	T000743	2	0	0	2
	Bolt M10*25 - 8.8 galv.	T000740	0	2	2	0
40.	Bolt M10*25 - 8.8 galv.	T000740	2	0	0	2
	Bolt M10*35 - 8.8 galv.	T000743	0	2	2	0

*galv. – galvanized coating

Table 14 Cutting unit - main frame

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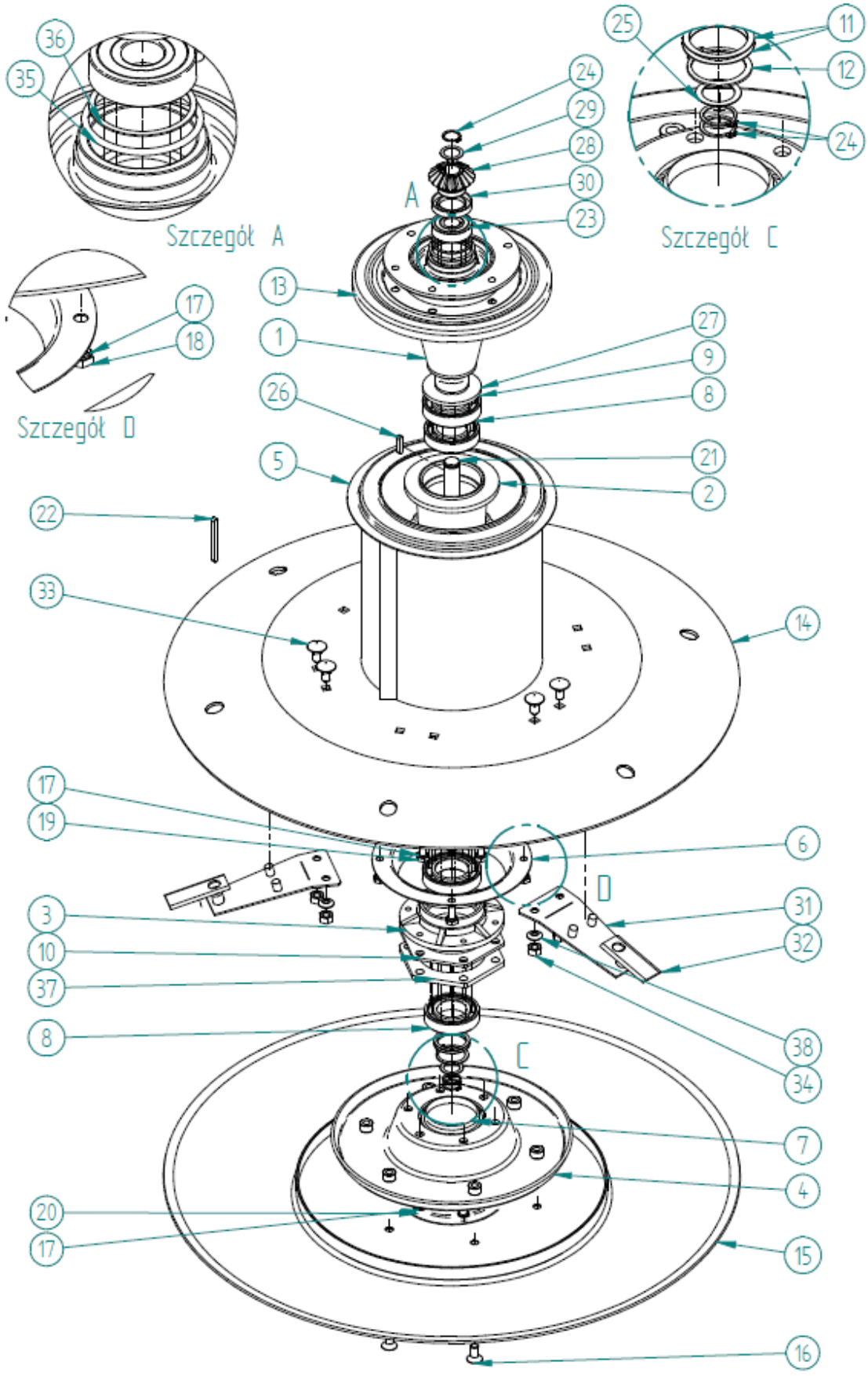
9.2.7. Cutting unit – working part



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Item No.	Name	Part no.	Quantity/Type of mower			
			L-1350 mini	L-1350	L-1650	L-1850
1.	Drum hub 5042/01-074/7	T000394	2			
2.	Working disc hub 5042/01-079/0	T000396	2			
3.	Sliding disc hub 5042/01-077/5	T000397	2			
4.	Resistance disc 5042/01-034/0	T000833	2			
5.	Drum cover 5042/01-072/1	T000345	2			
6.	Lower hub cover 5042/01-043/1	T000363	2			
7.	Cover - cap 5042/01-041/3 (30-056)	T000343	2			
8.	Bearing 6209 RS	T000198	4			
9.	Bearing 6210 RS	T000199	4			
10.	Spacer ring thin	T000398	2			
11.	Adjusting washer 45*55*1	T000445	4, as required 0.3; 0.5 or 1mm			
12.	Circlip 45z	T000414	2			
13.	Upper drum cover 5042/01-036/5	T000346	2			
14.	Working disc	T000836	0	0	0	2
		T000835	0	0	2	0
		T000834	2	2	0	0
15.	Sliding disc	T000839	0	0	0	2
		T000838	0	0	2	0
		T000837	2	2	0	0
16.	Screw 12*25 KL.8.8 GALV.	T000938	12			
17.	Spring washer 10 galv.	T000450	12			
18.	Bolt M10*25 - DIN 6921 10.9 galv.	T000814	16			
20.	Bolt M10*35 - 8.8 galv.	T000743	0	0	0	12
	Bolt M10*25 - 8.8 galv.	T000740	12	12	12	0
21.	Bearing shaft 5042/01-061/7	T000925	2			
22.	Parallel key 8*7*80	T000952	2			
23.	Bearing 6305 ZZ	T000212	2			
24.	Circlip 25z	T000424	6			
25.	Adjusting washer 25*1	T000444	2, as required 0.3; 0.5 or 1mm			
26.	Parallel key 8*7*32	T000953	2			
27.	Bearing cover 5042/01-003/1 (30-057)	T000367	2			
28.	Sprocket small	T000112	0	0	0	2
		T000114	2	2	2	0
29.	Adjusting washer 25*1	T000444	2, as required 0.3; 0.5 or 1mm			

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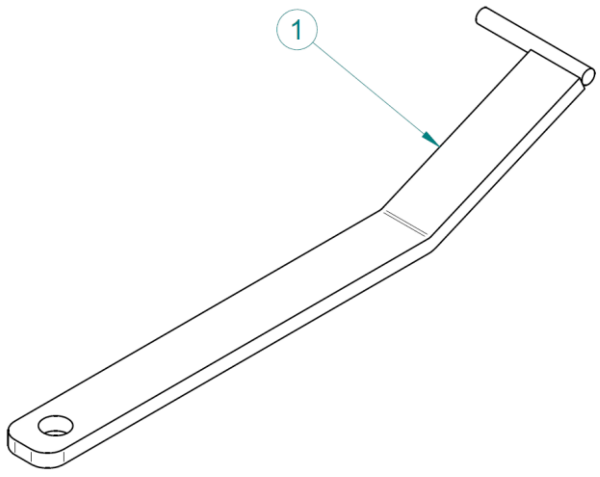
Item No.	Name	Part no.	Quantity/Type of mower			
			L-1350 mini	L-1350	L-1650	L-1850
30.	Seal 40*62*10	T000887	2			
31.	Blade holder	T000847	0	0	6	6
	Blade holder	T000846	4	4	0	0
32.	Blade for rotary mower 5042/01-045/4 BR 94	T000311	4	4	6	6
33.	Locking bolt (406) 12*25 10.9 galv. low raise	T000824	0	0	12	12
34.	Nut M12 galv.	T000267	0	0	12	12
35.	Circlip diam.70x4	T000402	2			
36.	Adjusting washer 55x62	T000446	2, as required 0.3; 0.5 or 1mm			
37.	Spacer ring thick	T000399	0	0	0	2
38.	Tapered ring	T000430	0	0	12	12

*galv. – galvanized coating
* Quantities are given for the quantities included in one machine set - 2 x working part

Table 15 Cutting unit – working part

9.2.7.1.Wrench for blades replacement



Item No.	Name	Part no.	Quantity/Type of mower
			1.85m/1.65m /1.35m /1.35mini
1	Wrench for blades replacement 5042/00-005/9	T000075	1

Table 16 Wrench for blades replacement

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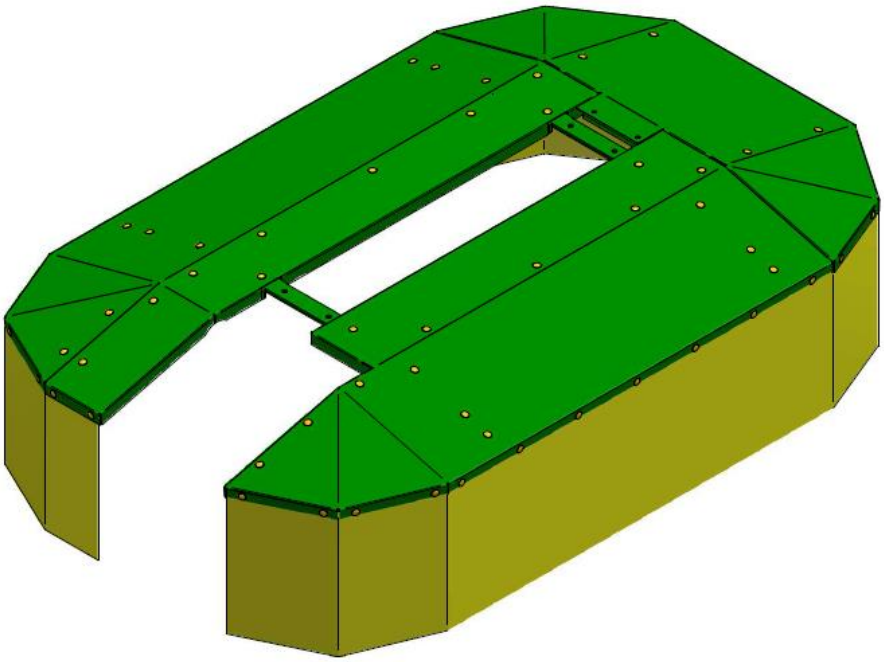
9.2.8 Set of covers



Set of covers for an Eco CUT rotary mower consists of:

Item No.	Name		Part no.	Quantity
1	Left cover	L-1350 mini	P000941	1
		L-1350	P300109	
		L-1650	P060201	
		L-1850	P050211	
2	Right cover	L-1350 mini	P000942	1
		L-1350	P300110	
		L-1650	P060202	
		L-1850	P050212	
3	Rear cover	L-1350 mini	P000943	1
		L-1350	P300111	
		L-1650	P060203	
		L-1850	P050213	
4	Bent reinforcement	L-1350 mini	P000946	1
		L-1350	P300114	
		L-1650	P060206	
		L-1850	P050216	
5	Reinforcing angle bar	L-1350 mini	P000945	1
		L-1350	P300113	
		L-1650	P060205	
		L-1850	P050215	
6	Reinforcing angle bar short	L-1350 mini	P000944	1
		L-1350	P300112	
		L-1650	P060204	
		L-1850	P050214	

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7	Right cover connection	L-1350 mini	P000947	1
		L-1350	P300115	
		L-1650	P060207	
		L-1850	P050217	
8	Reinforcement holder	L-1350 mini	P300117	1
		L-1350	P300117	
		L-1650	P300117	
		L-1850	P300117	
9	Protective apron	L-1350 mini	T000044	1
		L-1350	T000043	
		L-1650	T000048	
		L-1850	T000047	
10	Bolts, nuts and washers kit	1,35 mini, 1,35M, 1,65M,	T000151	1
			T000152	
		1,85M		

Individual items are indicated in: **Step VII.**

Working without the cutting unit cover, or with the cover damaged or raised, poses a danger for an operator and for environment – Strictly prohibited.

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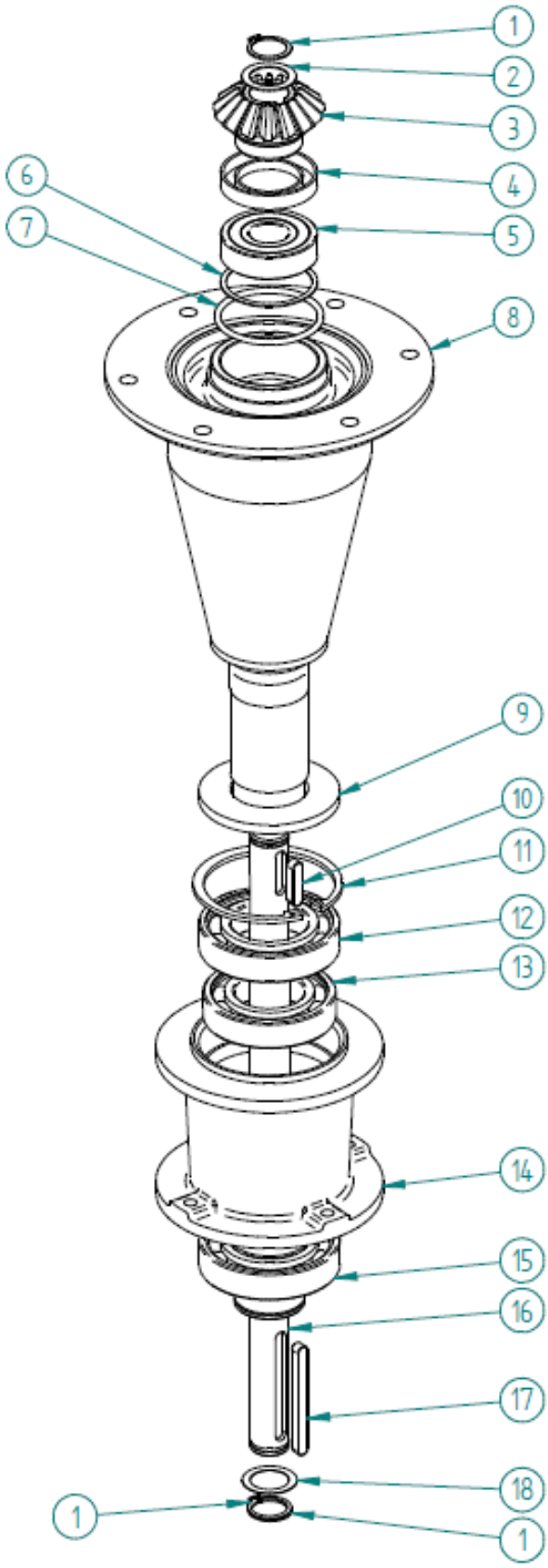
9.2.9 Complete drum unit



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Pos.	Name	Part number	Quantity / Mower type			
			L-1350 mini	L-1350	L-1650	L-1850
	Complete unit	P720003	0	0	0	1
		P700003	1	1	1	0
1.	Circlip 25z	T000424	3			
2.	Spacer washer 25*1	T000444	1, as needed, 0,3;0,5 or 1mm			
3.	Small bevel gear	T000112	0	0	0	1
		T000114	1	1	1	0
4.	Sealant 40*62*10	T000887	1			
5.	Bearing 6305 zz	T000212	1			
6.	Spacer washer 50x62	T000446	1, As needed, 0,3;0,5 or 1mm			
7.	Sealing ring fi70x4	T000402	1			
8.	Drum hub 5042/01-074/7	T000394	1			
9.	Sealant 5042/01-003/1 (30-057)	T000367	1			
10.	Inlet. 8*7*32 5042/01-015/6	T000953	1			
11.	Circlip 90w	T000429	1			
12.	Bearing 6210	T000199	1			
13.	Bearing 6210 RS	T000198	1			
14.	Working disc hub 5042/01-079/0	T000396	2			
15.	Bearing 6210 RS	T000199	1			
16.	Reducing gear drive shaft 5042/01-061/7	T000925	1			
17.	Inlet 8*7*80 5042/01-058/4	T000952	1			
18.	Spacer ring 25*1	T000444	1, As needed, 0,3;0,5 or 1mm			

Table 17 Complete drum unit

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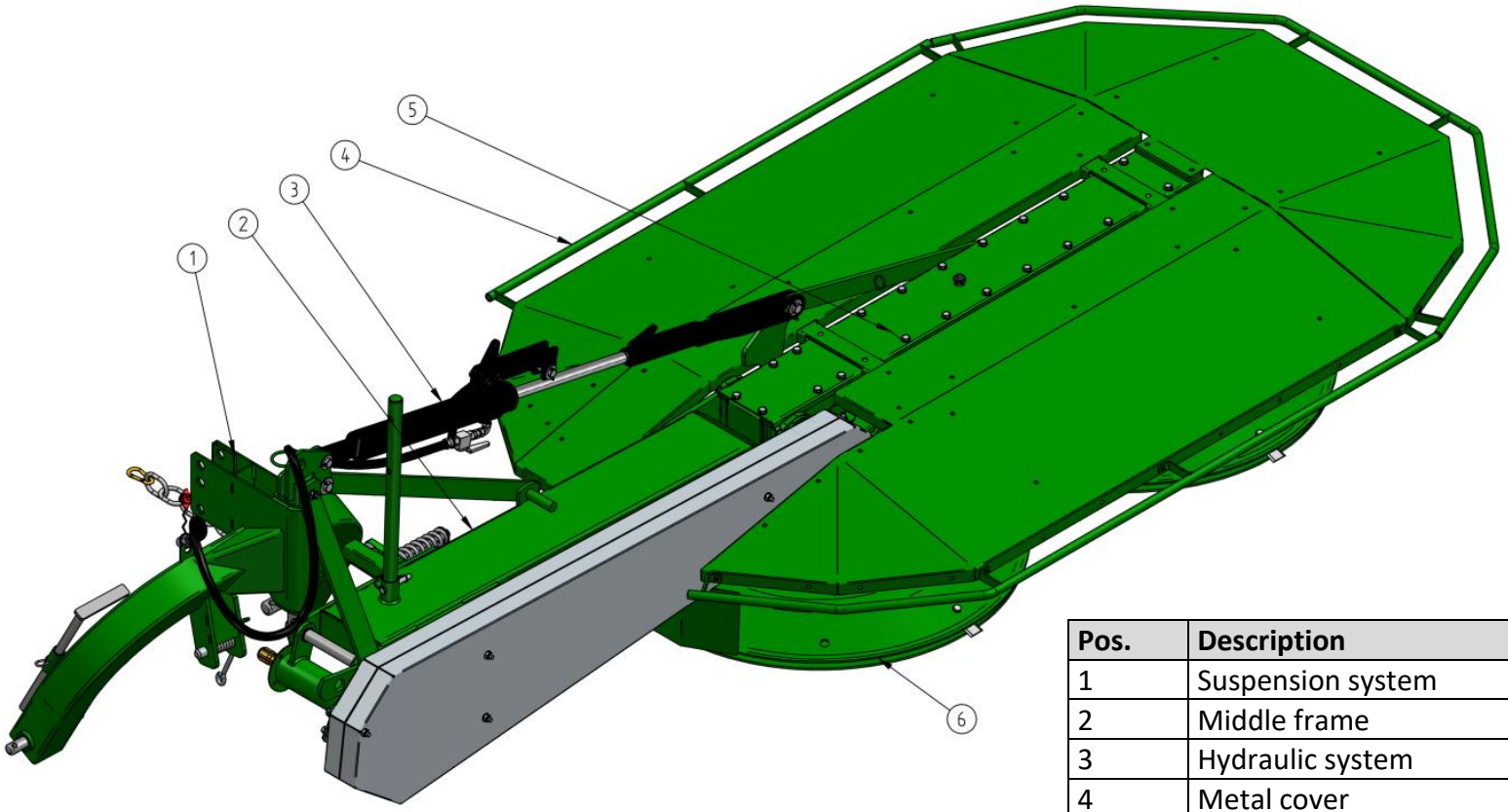
9.3. General construction – Eco CUT 210 mower



Pos.	Description	Index
1	Suspension system	**Chapt. 9.3.1**
2	Middle frame	**Chapt. 9.3.2**
3	Hydraulic system	**Chapt. 9.3.3**
4	Metal cover	**Chapt. 9.3.4**
5	Main frame	**Chapt. 9.3.5**
6	Cutting unit	**Chapt. 9.3.6**

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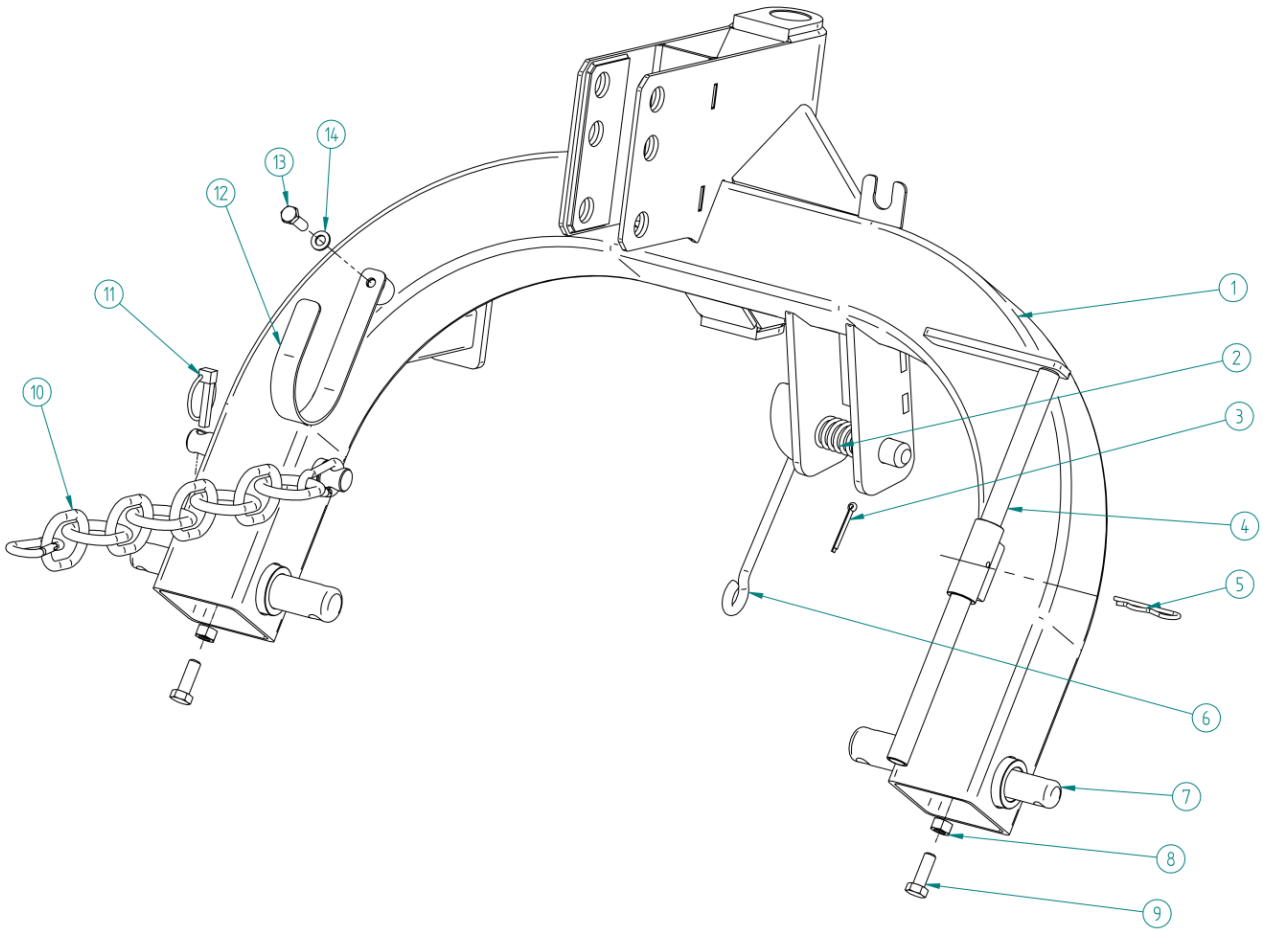
9.3.1. Suspension system - Eco CUT 210



Pos.	Description	Index	Quantity
1.	Suspension frame	P001962	1
2.	Hitch lock spring	T000674	1
3.	Pin 5*40 GALV. DIN 94	T000985	1
4.	Knife Quick Change Key	P013069	1
5.	4x100 double pin galv. DIN 11024-D	T000987	1
6.	Hitch lock pivot	T002165	1
7.	Bottom link pivot	P013082	2
8.	Nut M12 GALV. 8 DIN 934	T000267	2
9.	Bolt M12x35 GALV. 8.8 p.gw DIN 933	T000756	2
10.	Chain set	P300091	1
11.	Universal pin 42/37-038/1 LP10KR	T000981	1
12.	Shaft holder	P002107	1
13.	Bolt M10x25 GALV. 8.8 p.gw DIN 933	T000740	1
14.	Washer M10 GALV. DIN 125	T000456	1

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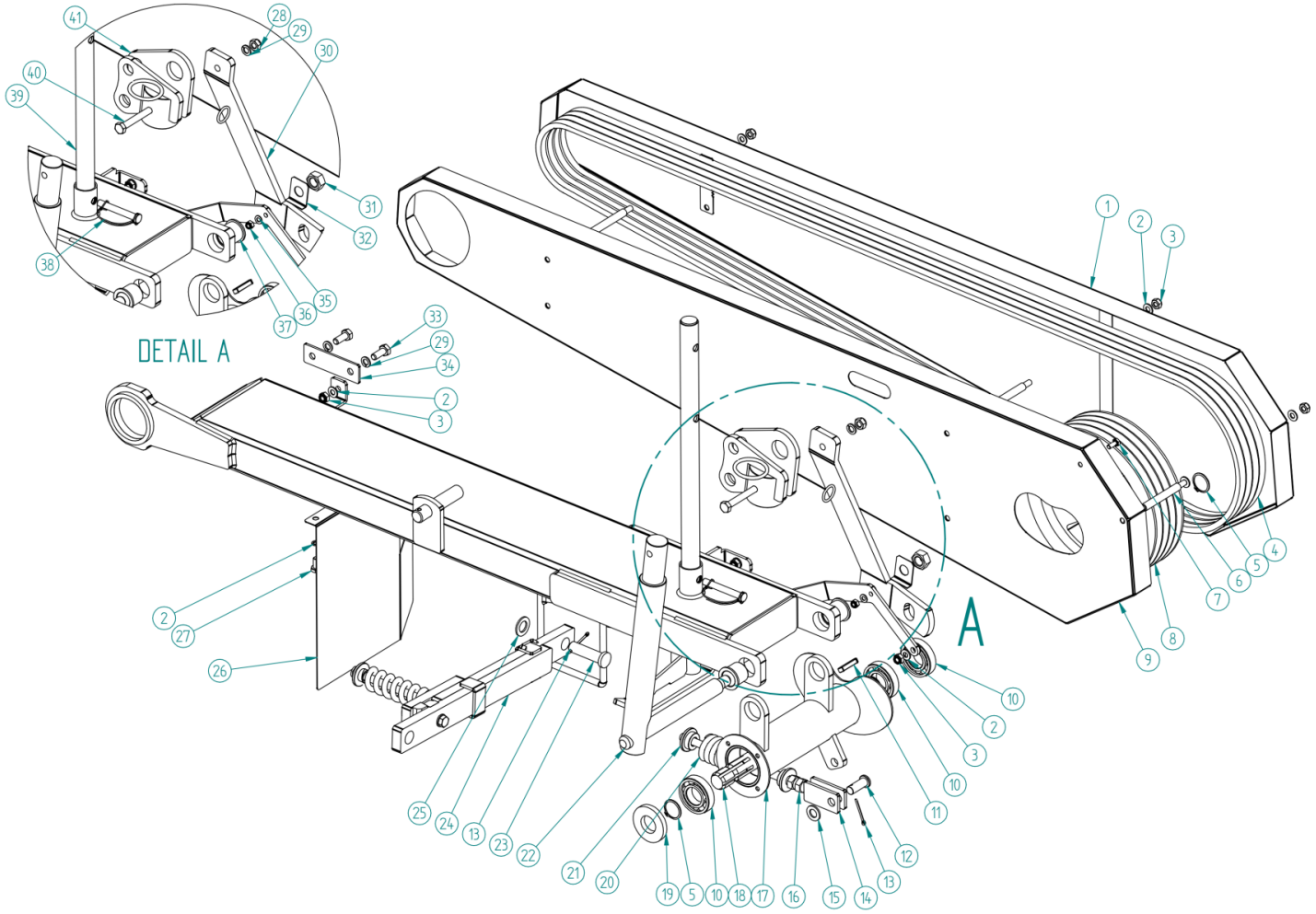
9.3.2 Middle frame – Eco CUT 210



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Pos.	Description	Index	Quantity
1	Outer V-belt cover	P606160	1
2	Washer M10 GALV. DIN 125	T000456	14
3	Self-lock nut M10 GALV. DIN 985	T000292	10
4	V-belt SPB 3550	T001082	4
5	Circlip 35z	T000412	2
6	Cover pin	T000714	5
7	Bolt M8x20 GALV. 8.8	T000804	1
8	Large pulley	T000100	1
9	Inner V-belt cover	P300078	1
10	Bearing 6207 2RS	T000179	3
11	Key way 10x8x50 DIN 6885	T000947	1
12	Pivot pin 16 galv.	T000691	1
13	Pin 4x50 GALV. DIN 94	T000984	2
14	V-belt tensioner	P002096	1
15	Washer M16 GALV. DIN 125	T000460	1
16	Nut M16 GALV. 8 DIN 934	T000270	2
17	Drive head	P001970	1
18	Head shaft	T001074	1
19	Sealant 35*72*10	T000889	1
20	Tensioner spring	T000663	1
21	Tensioner spring seat	T000638	2
22	Joint axis	P001920	1
23	Pivot pin	P603145	1
24	Break back device	P001940 **Chapt. 9.3.2.1**	1
25	Washer M20 GALV. DIN 125	T000462	1
26	Pilot cover	P590036	1
27	Bolt M10x20 GALV. 8.8	T000738	2
28	Self-lock nut M12 GALV.	T000291	1
29	Spring washer M12 GALV.	T000451	2
30	Z - Joint	P002109	1
31	Nut M20x1,5 GALV. tall DIN 934	T002827	1
32	Joint axis protection washer	P132170	1
33	Bolt M12x35 GALV. 8.8 p.gw	T000756	2
34	Rear plate overlay	T000252	1
35	Washer M8 GALV. DIN 125	T000471	1
36	Self-lock nut M8 GALV. DIN 985	T000256	1
37	Brass bushing for joint axis	T001069	2
38	Folding pin Ø12x67	T000990	1
39	Stand jack	P001935	1
40	Bolt M12x100 GALV. 8.8 np.gw	T000751	1
41	Hydraulic head	P001932	1
	PTO shaft 460Nm L-860	T000905	1
	PTO shaft – harmonica cover	T000350	1

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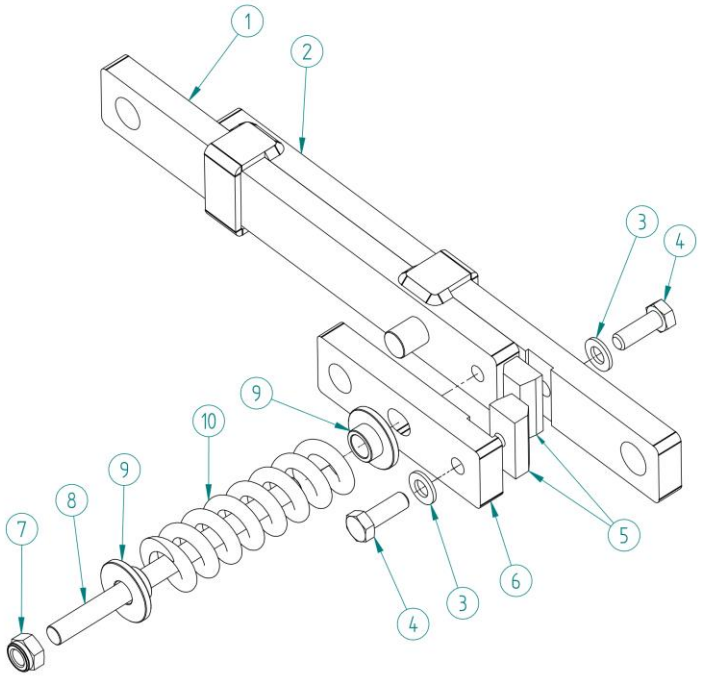
9.3.2.1 Break back device - Eco CUT 210



Pos.	Description	Index	Quantity
1	Inner bar	P001942	1
2	Outer bar	P001941	1
3	Washer m12 galv. DIN 125	T000458	2
4	Bolt M12x35 GALV. 8.8 p.gw DIN 933	T000756	2
5	Milled breakaway cube	P013134	2
6	Flat middle bar	P013034	1
7	Self-lock nut m14 galv. din 985	T000293	1
8	Spring rod	P013135	1
9	Spring seat	T000637	2
10	Spring	T000652	1

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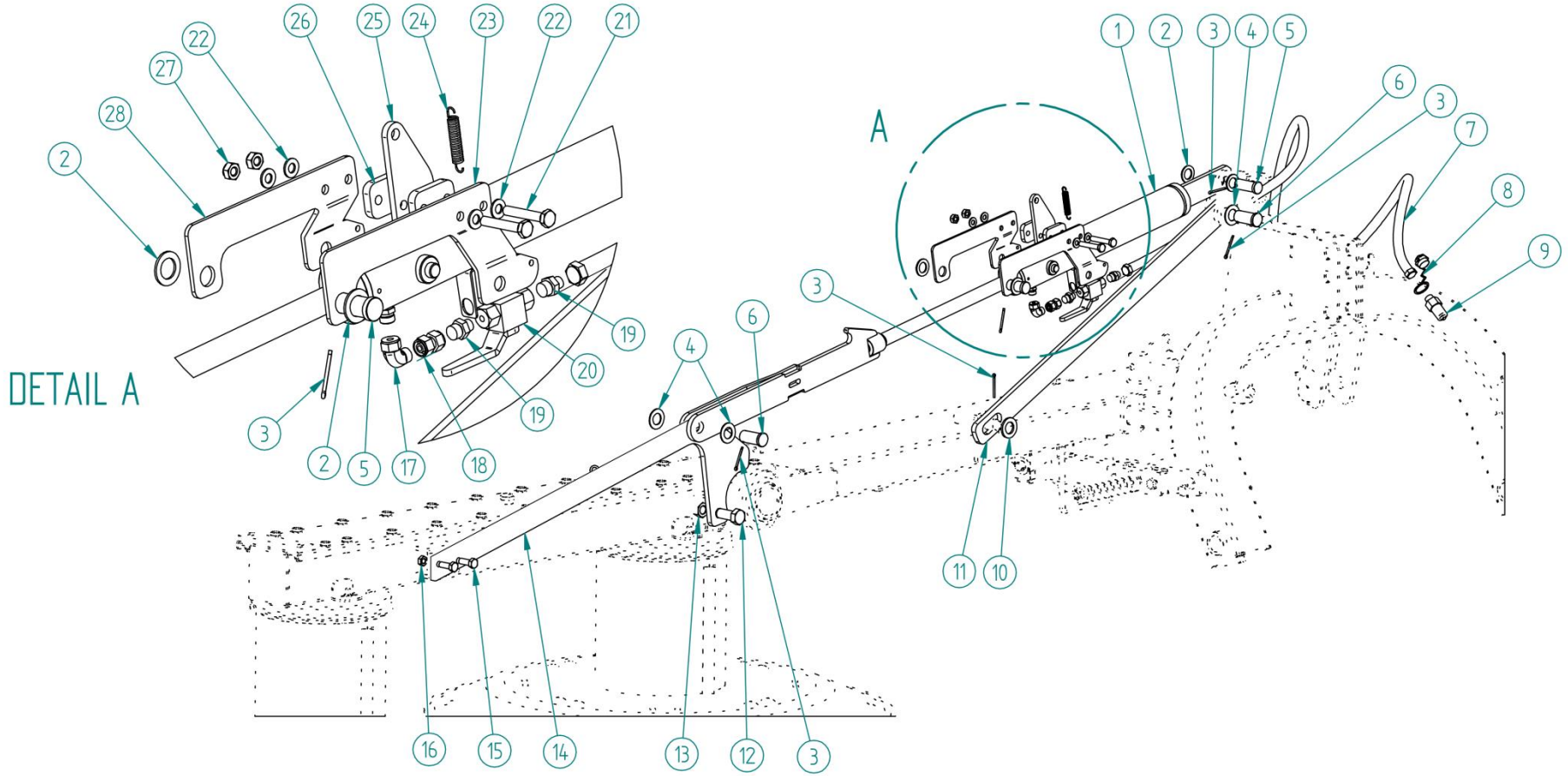
9.3.3Hydraulic system – Eco CUT 210



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Pos.	Description	Index	Quantity
1	Hydraulic cylinder	P001968	1
2	Washer M22 galv. DIN 125	T000463	4
3	Pin 5*40 galv. DIN 94	T000985	5
4	Washer M25 galv. thin	T000464	4
5	Pivot pin 22x55 galv.	T000694	2
6	Pivot pin 25*55 galv.	T000695	2
7	Hose P51/P51 M18x1,5/M16x1,5 DN8 2SN L- 2500	T000522	1
8	Plug cover IS012,5	T000488	1
9	Mushroom quick coupler ISO 12,5 M18x1,5 euro connector	T000995	1
10	Washer Ø 26	P002089	1
11	Metal bar	P001973	1
12	Bolt M20x50 galv. 8.8 p.gw DIN 933	T000791	1
13	Self-lock nut M20 galv. 6 DIN 985	T000255	1
14	Metal bar – hydraulic side	P002108	1
15	Bolt M12x35 GALV. 8.8 p.gw DIN 933	T000756	2
16	Self-lock nut M12 galv. 8 DIN 985	T000291	2
17	Elbow fitting AB M16x1,5/M16x1,5 10L/10L	T001026	1
18	Connector AA M16x1,5	T001025	1
19	Connector A G1/4-M16x1,5 10L	T000583	2
20	Ball valve 2/2 1/4	T000996	1
21	Bolt M10x55 GALV. 8.8 p.gw DIN 933	T002282	2
22	Washer M10 galv. DIN 125	T000456	4
23	Cylinder lock	P001944	1
24	Stretching spring 1,5x12x75 galv.	T000665	1
25	Cylinder lock – tin 2	P001946	1
26	Cylinder lock - tin 3	P001947	2
27	Self-lock nut M10 galv. DIN 985	T000292	2
28	Cylinder lock	P001945	1

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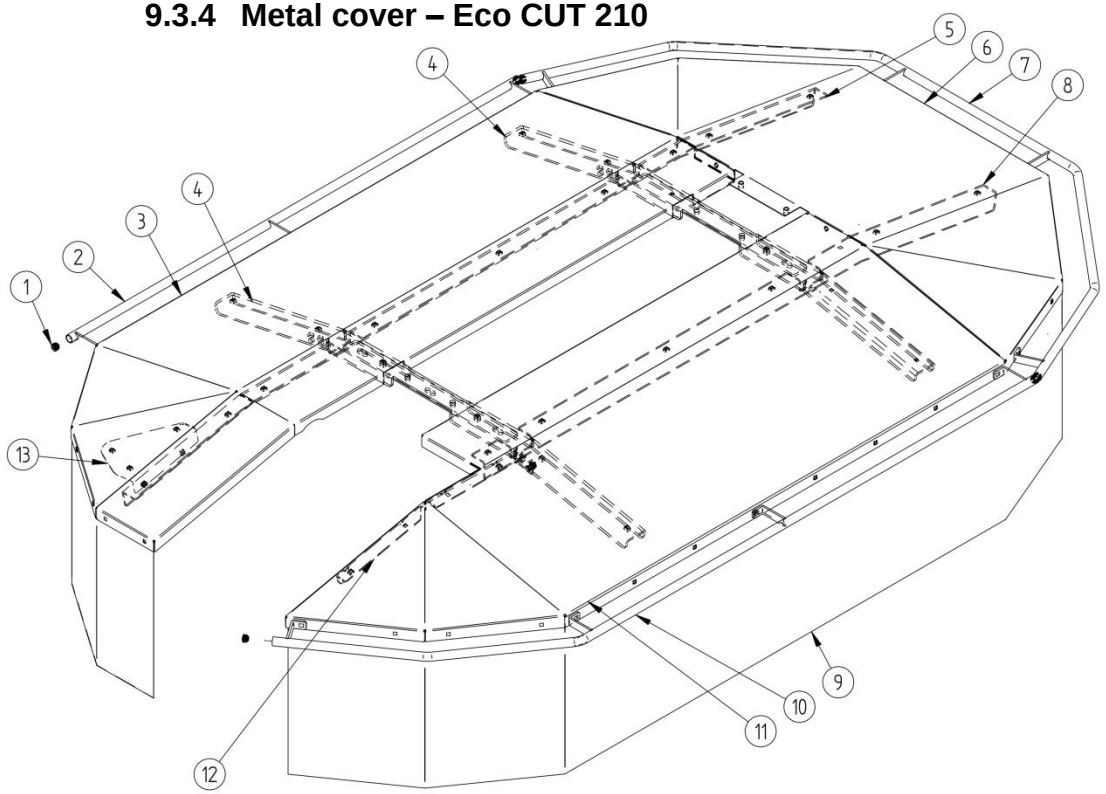
9.3.4 Metal cover – Eco CUT 210



Pos.	Description	Index	Quantity
1	Cap Ø19 0.8-2.O	T000935	6
2	Right barrier	P001930	1
3	Right cover	P001951	1
4	Reinforcing plate	P001958	2
5	Reinforcing bracket 2	P001954	1
6	Rear cover	P001953	1
7	Rear barrier	P001927	1
8	Reinforcing bracket	P001955	1
9	Protective tarpaulin 2.1	T002729	1
10	Left barrier	P001924	1
11	Left cover	P001952	1
12	Reinforce mounting	P001956	1
13	Right cover joint	P001957	1

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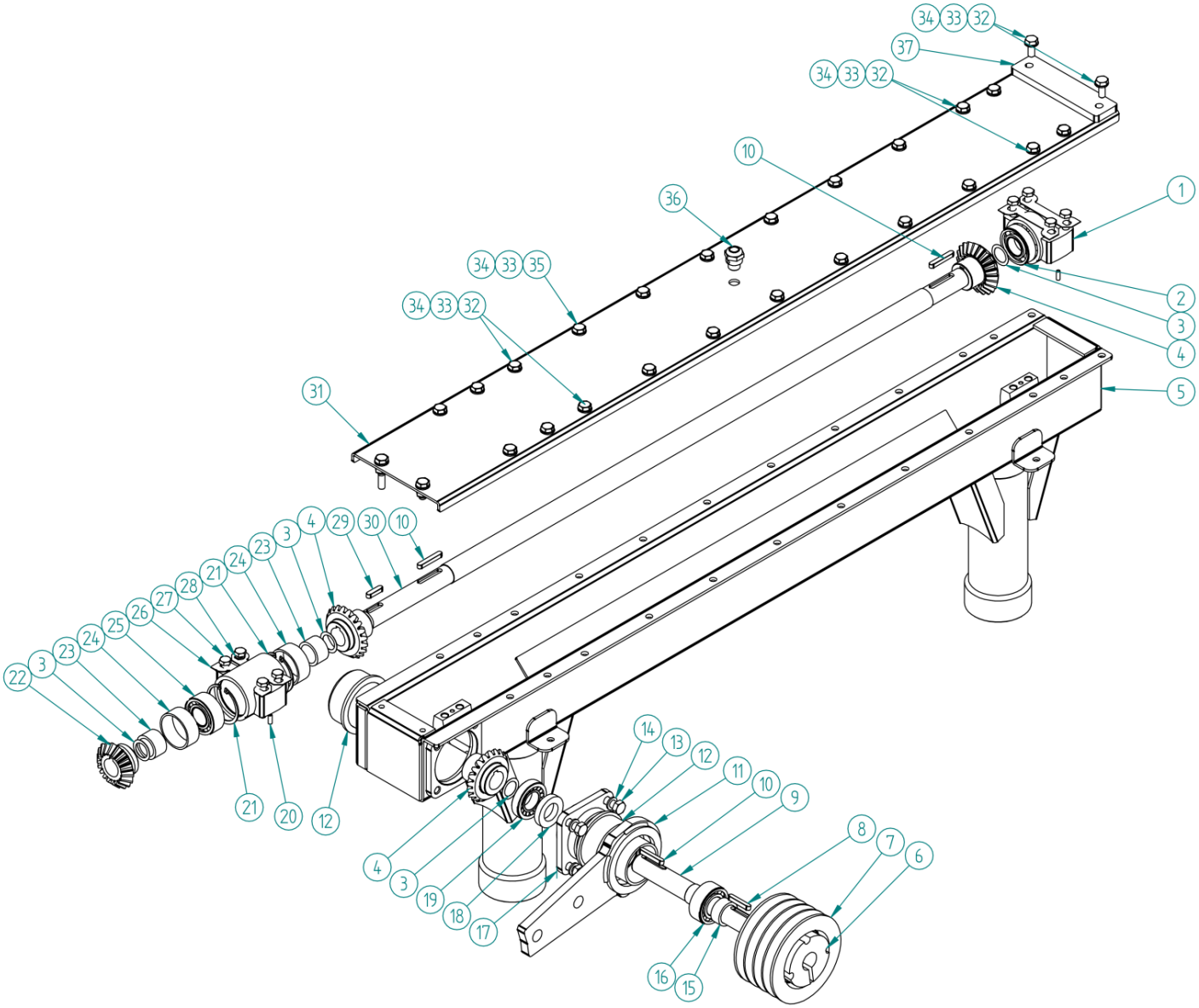
9.3.5 Main frame - Eco CUT 210



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Pos.	Description	Index	Quantity
1	Small bearing housing	T000327	1
2	Bearing 6206	T001055	1
3	Adjustment washer 30x42	-	As needed, 0,3;0,5 or 1mm
4	Large conical gear z=21	T001081	3
5	Main frame	P001964	1
6	Pulley SPB 140	T001083	1
7	Bushing TB 2517/30	T001084	1
8	Key way 8x7x45	T002801	1
9	Small pulley shaft	T001076	1
10	Key way 8x7x50	T000945	3
11	Rear plate with ring	T002099	1
12	Thick support bushing	T002580	2
13	Bolt M12x30 GALV. 8.8 p.gw DIN 933	T000755	4
14	Spring washer M12 GALV.	T000451	4
15	Spacer sleeve	P002095	1
16	Bearing 3206 2RS	T001054	1
17	Small pulley shaft hub	T001078	1
18	Sealant A30x52x10	T001057	1
19	Bearing 30206	T001053	1
20	Spring pin 6x16 DIN 1481	T000086	4
21	Circlip 62W	T000418	2
22	Small conical gear z=18	T001080	1
23	Bushing 2	P001923	2
24	Bushing 1	P001888	2
25	Bearing 3206	T002802	1
26	Flexible washer 5042/01-062	T000449	4
27	Bolt M10x60 GALV. 8.8 np.gw DIN 931	T000747	8
28	Spring washer M10 GALV.	T000450	8
29	Key way 8*7*32	T000953	1
30	Frame shaft	T001077	1
31	Cover	P001887	1
32	Bolt M10x25 GALV.	T000740	20
33	Washer M10 GALV.	T000456	26
34	Self-lock nut M10 GALV. DIN 985	T000292	24
35	Bolt M10x35 GALV.	T000743	6
36	Valve set 5042/01-044/1	T000993	1
37	Rear cover washer	P300118	1

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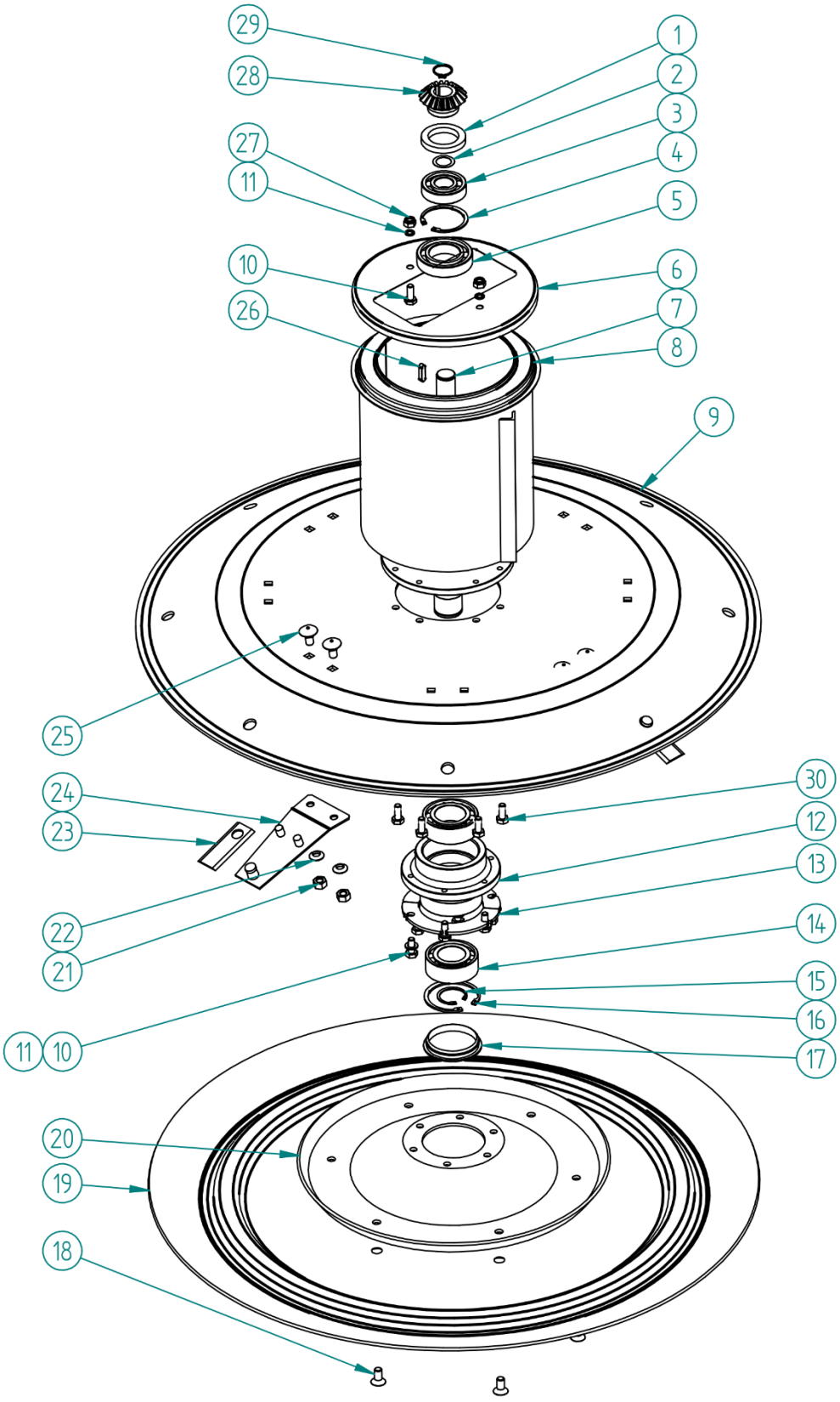
9.3.6 Cutting unit – working part - Eco CUT 210



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Pos.	Description	Index	Quantity
1	Sealant A50x72x10	T001058	2
2	Adjustment washer 30x42	-	As needed, 0,3;0,5 or 1mm
3	Bearing 6306 2RS	T000622	2
4	Circlip 72W	T002798	2
5	Bearing 6210 2RS	T000202	2
6	Cover	P002018	2
7	Vertical welded shaft	P001884	2
8	Drum cover	T001073	2
9	Upper disc	T001070	2
10	Bolt M10x25 GALV. 8.8 p.gw DIN 933	T000740	16
11	Spring washer M10 GALV.	T000450	16
12	Lower disc hub	P001965	2
13	Spacer ring #5	P002019	4
14	Bearing 3209 2RS	T001062	2
15	Circlip 45z	T000414	2
16	Circlip 85W	T000422	2
17	Cap cover 5042/01-041/3 (30-056)	T000343	2
18	Mower bolt 12x25 8.8 GALV.	T000938	12
19	Bottom plate	T001071	2
20	Resistive disc	T001072	2
21	Nut M12 GALV. 8 DIN 934	T000267	16
22	Cone ring 5042/01-040/0	T000430	16
23	Knife BR-102 5042/05-049	T000310	16
24	Blade holder	T002829	8
25	Lock bolt M12x25 GALV. 10.9 low head	T000824	16
26	Key way 8x7x32	T000953	2
27	Self-lock nut M10 GALV. DIN 985	T000292	4
28	Small conical gear z=18	T001080	2
29	Circlip 30z	T000410	2
30	Bolt M10x25 GALV. 8.8 p.gw DIN 6921	T000814	16

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Fitting instructions for the metal covers

Eco CUT

Attention!
All bolted joints in steps I - VII should be initially only loosely connected - not tightened.
The final tightening should be done after the cover has been placed on the main frame and adjusted to the machine - step XI of the covers fitting procedure.

Step I

- Find a safe and stable place to fit the covers,
- Lay out the left and right covers, and the bent reinforcements,
- **Make sure that the selected holes (Fig. 26, Detail A) are facing the correct way (the same direction).**

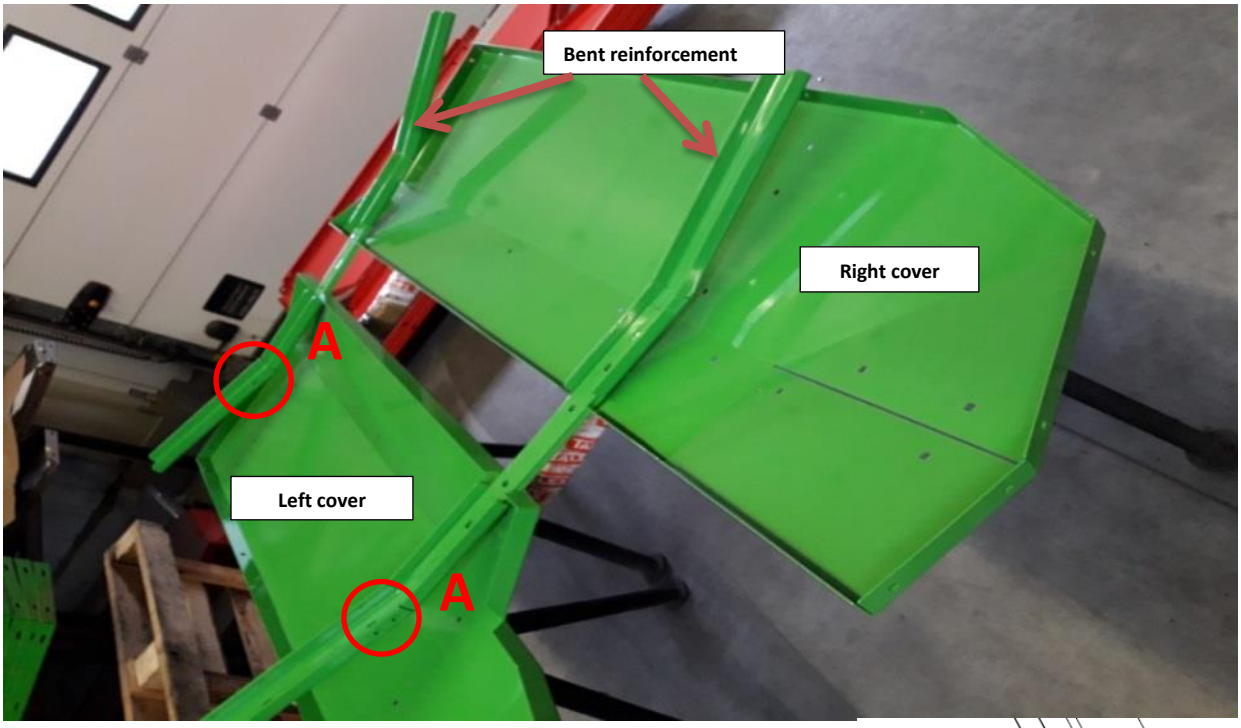

Figure 26 Step I of the tarpaulin covers assembly

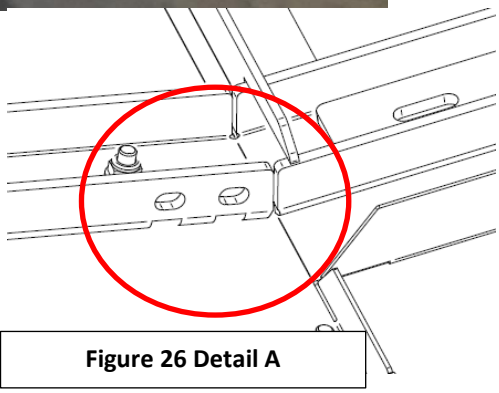

Figure 26 Detail A

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STEP II

- Fix bent reinforcements to left and right cover

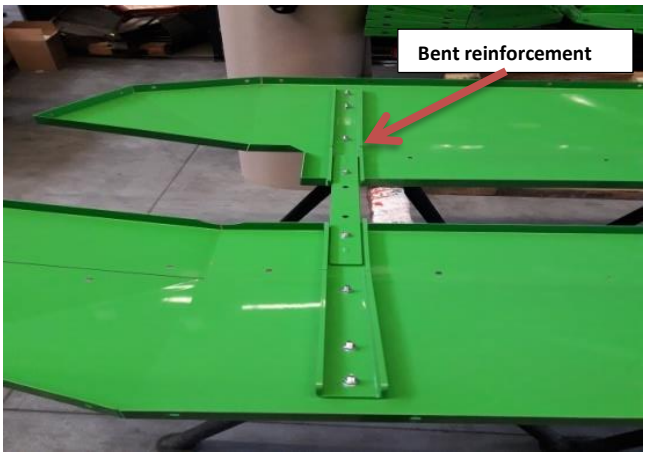

Figure 27 Step II Bent reinforcement assembly

Figure 28 Step II bent reinforcement assembly

The figure below shows which bolt elements were used in steps II to V. Case of use of other bolt elements, indicated below.

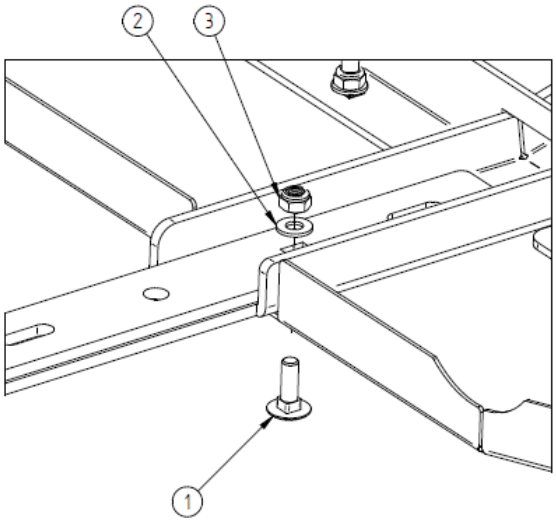

Figure 29 Bolted joint

Item No.	Name	Part no.
1	Saucer head screw raised M8x20-8.8 galv.	T000804
2	Simple washer M8 galv.	T000471
3	Nut 6-cat. self. M8 galv.	T000256

*galv. – galvanized coating

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STEP III

- Adjust and fix reinforcing angle bars to the left and right coves

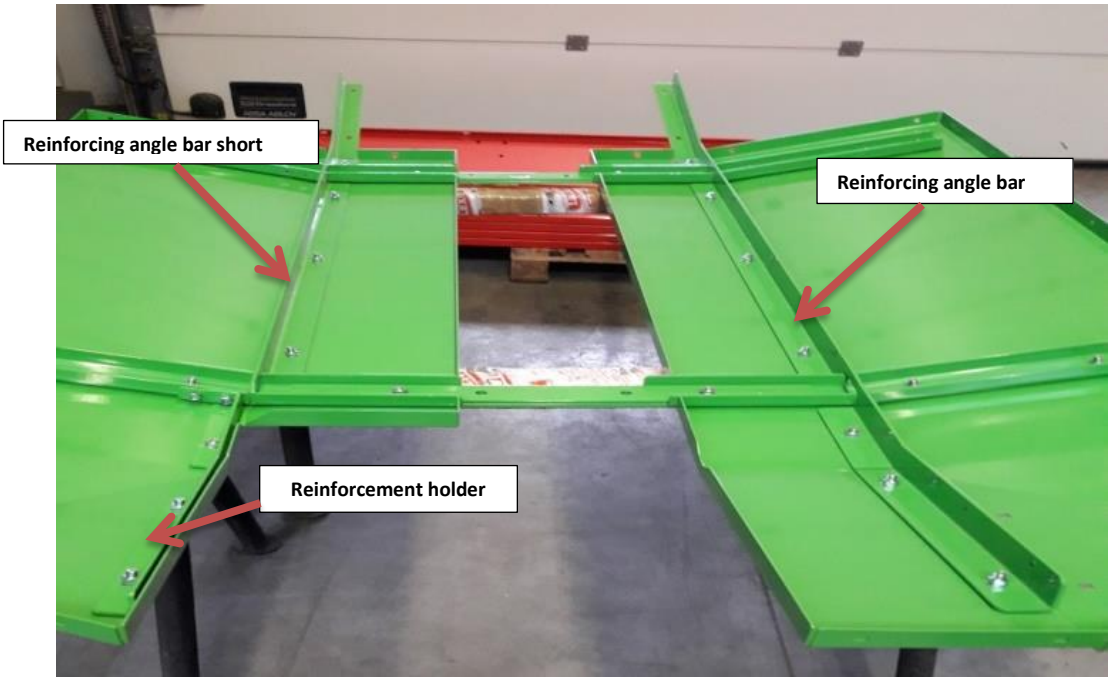

Figure 30 Step III Reinforcing angle bars assembly

STEP IV

- Adjust and fix the reinforcing holder to the holes in the left bent reinforcement and the left cover

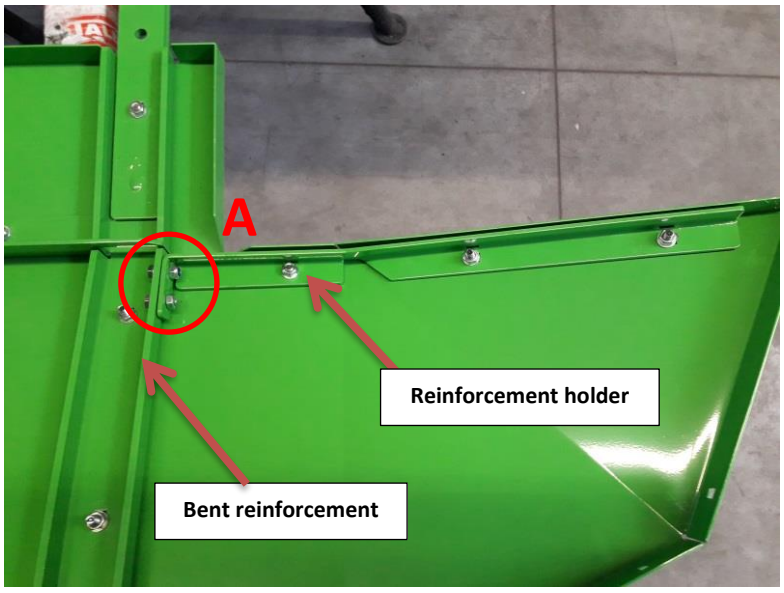

Figure 31 Step IV Reinforcement holder assembly

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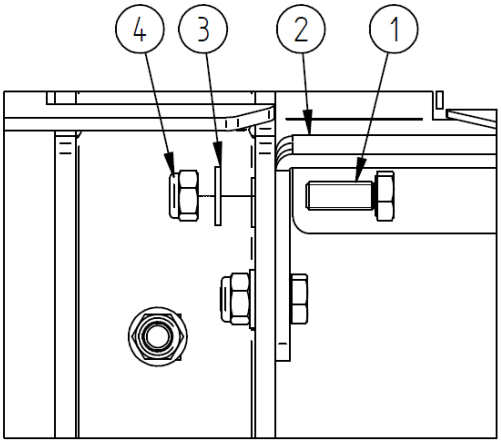

Item No.	Name	Part no.
1	Bolt 6-cat. M8x20-8.8 galv.	T000804
2	Reinforcement holder	
3	Simple washer M8 galv.	T000471
4	Nut 6-cat. self. M8 galv.	T000256

*galv. – galvanized coating

Figure 32 Detail A of Figure 31

STEP V

- Adjust and fix the connection of the right cover to the holes in the right cover and the right angle bar reinforcement,
- To connect with the angle bar (Fig. 33) use (Fig. 34):

-

Figure 33 Step V Right cover connection

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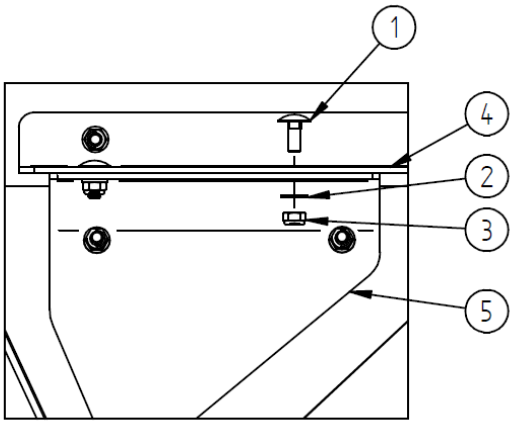

Item No.	Name	Part no.
1	Saucer head screw raised M8x20-8.8 galv.	T000825
2	Simple washer M8 galv.	T000471
3	Nut 6-cat. self. M8 galv.	T000256
4	Reinforcing angle bar	
5	Reinforcement of right cover	

*galv. – galvanized coating

Figure 34 Detail A of Figure 33

STEP VI

Adjust and fix the rear cover to the left and right covers, and to angle bars.

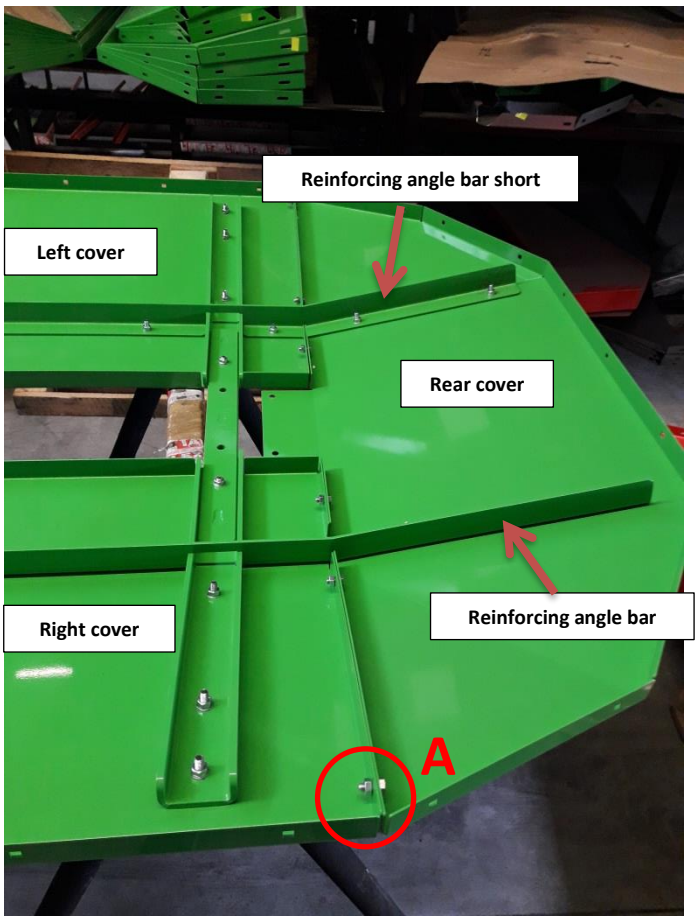

Figure 35 Step VI Rear cover assembly

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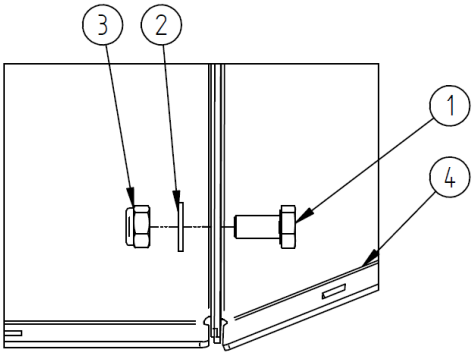

Item No.	Name	Part no.
1	Bolt 6-cat. M8x16-8.8 galv.	T000803
2	Simple washer M8 galv.	T000471
3	Nut 6-cat. self. M8 galv.	T000256
4	Rear cover	

*galv. – galvanized coating

Figure 36 Figure 35 Detail A

STEP VII

Check if all the elements were properly fixed.

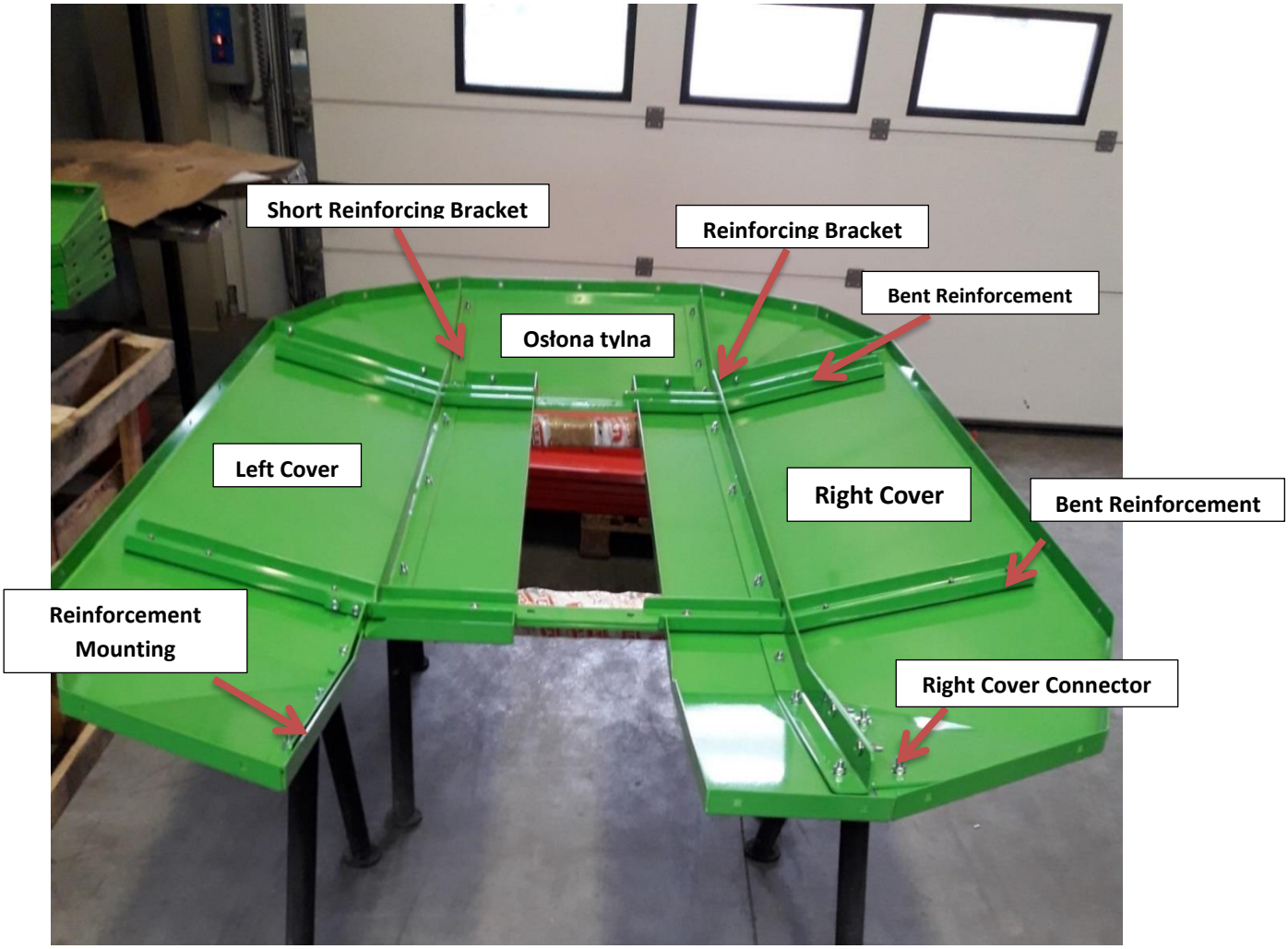

Figure 37 Step VII Checking for correct assembly

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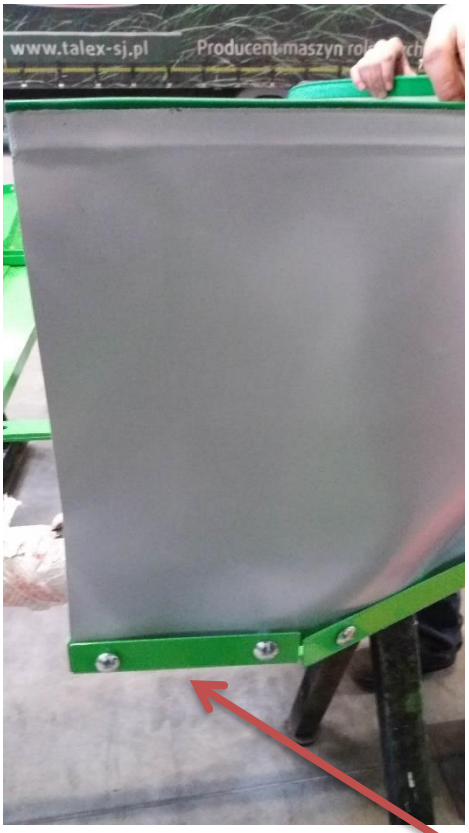
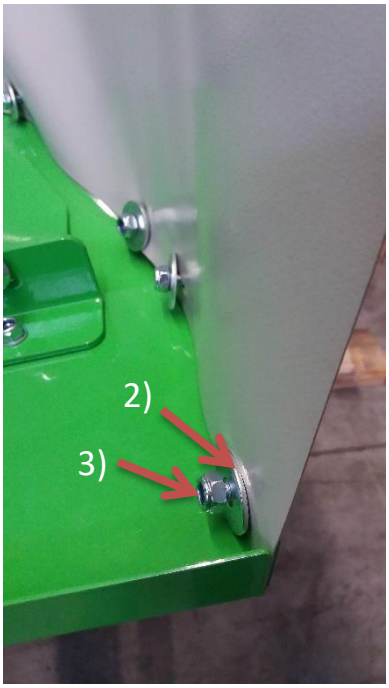
STEP VIII

- Fix the protective apron to the cover from the inside
- For ECO CUT 210: please see next page





Pay attention to the spacing of holes in the cover, and in the protective apron

Item No.	Name
1	Saucer head screw raised M8x20-8.8 galv.
2	Flat washer coated M10 galv.
3	Nut 6-cat. self. M8 galv.
4	Protective apron

*galv. – galvanized coating

Figure 38 Step VIII Protective apron assembly

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For the ECO CUT 210 cover, bypass the apron attachment to the metal cover at the marked locations in **Figure 39 (below)**.

After initial attaching of the apron to the metal shield, **bolt the apron together with the barriers to the metal guard** in places marked in **Figure 39 (below).**

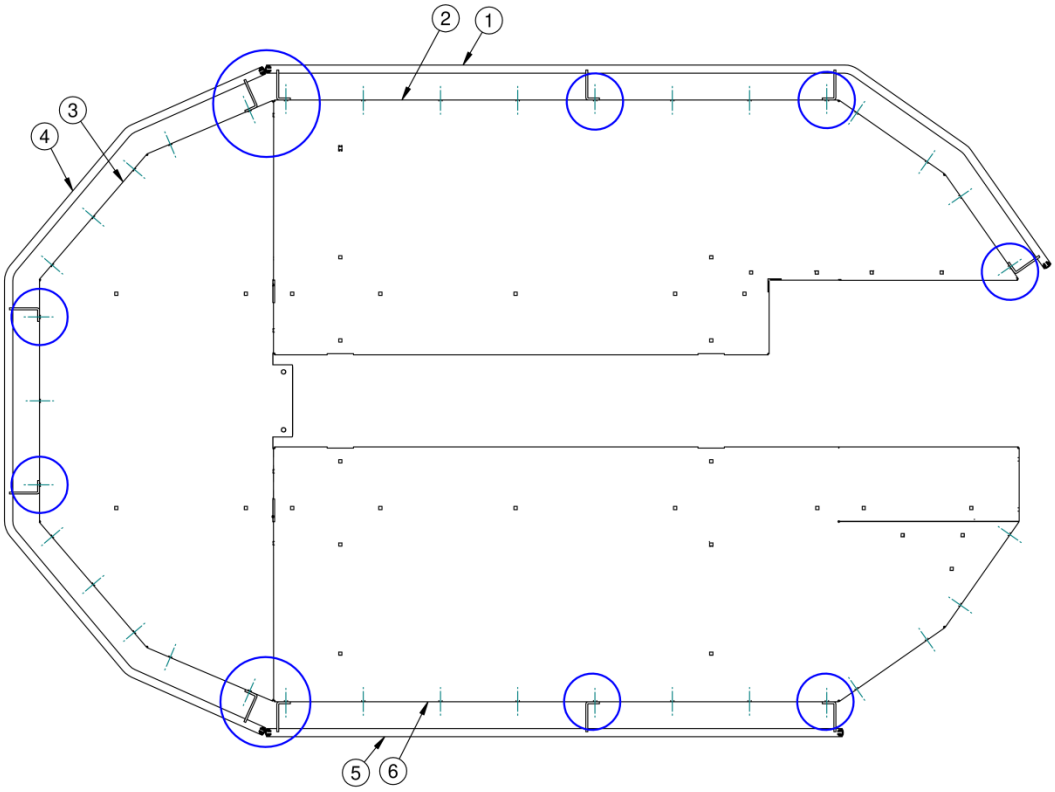

Figure 39 Metal barriers assembly for ECO CUT 210

Pos.	Description	Index	Qty.
1	Left barrier	P001924	1
2	Left cover	P001952	1
3	Rear cover	P001953	1
4	Rear barrier	P001927	1
5	Right barrier	P001930	1
6	Right cover	P001951	1

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Attention! In the case of bolted joints fixing protective apron to metal cover, tighten the bolted joints according to Table 3.

STEP IX

- Disconnect the milled connector from the scythe-connector (in hydr. model: with hydraulic cylinder) (Fig. 40 item 2),
- Unscrew the mounting bolts fixing the scythe-connector to the main frame (Fig. 40, item 1) and the scythe-connector remove tie rod-knife from the machine.

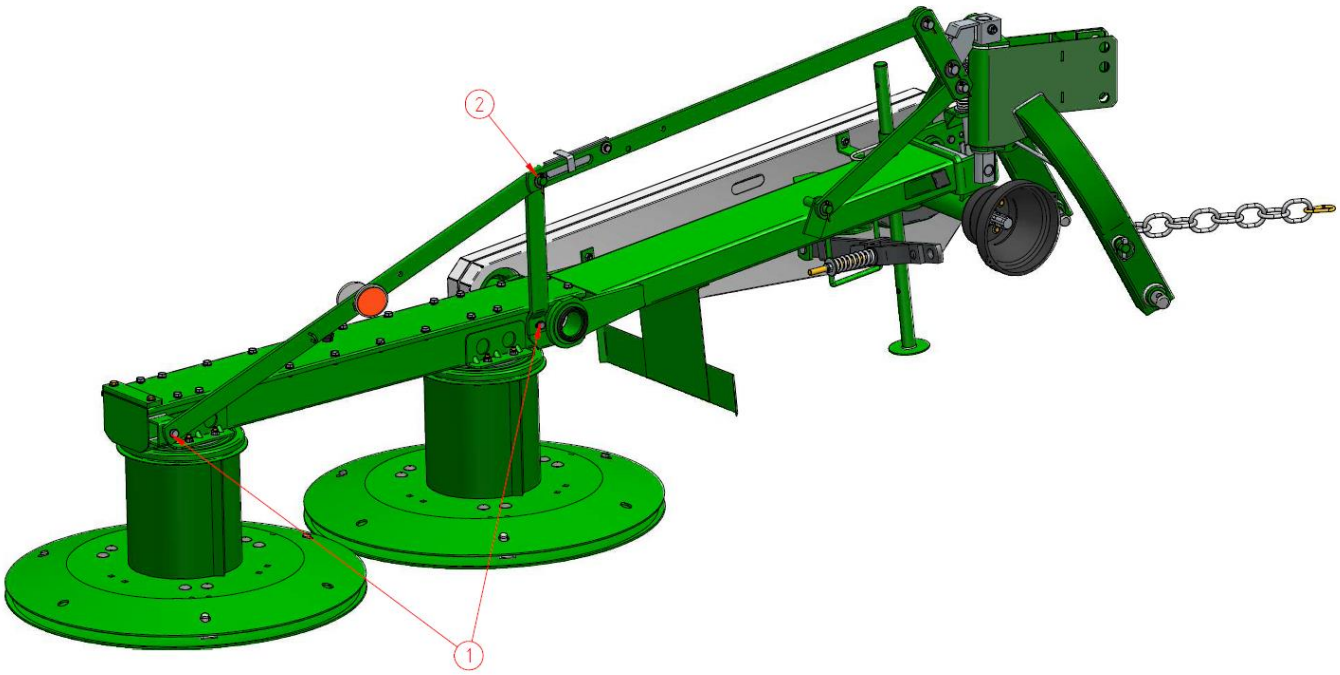

Figure 40 Cover assembly – STEP IX

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STEP X

Unscrew the bolts indicated in the following figure (Fig. 41) - cover mounting location:
pos. 1 – for mowers 2.10m/1.85m/1.65m/1.35m/1.35mini,
pos. 2 – for mowers 1.85m/1.65m/1.35m/1.35mini,
pos. 3 – for mower 2.10m
pos. 4 – for mower 2.10m/1.65m/1.35m
pos. 5 – for mower 1.85m/1.35mini

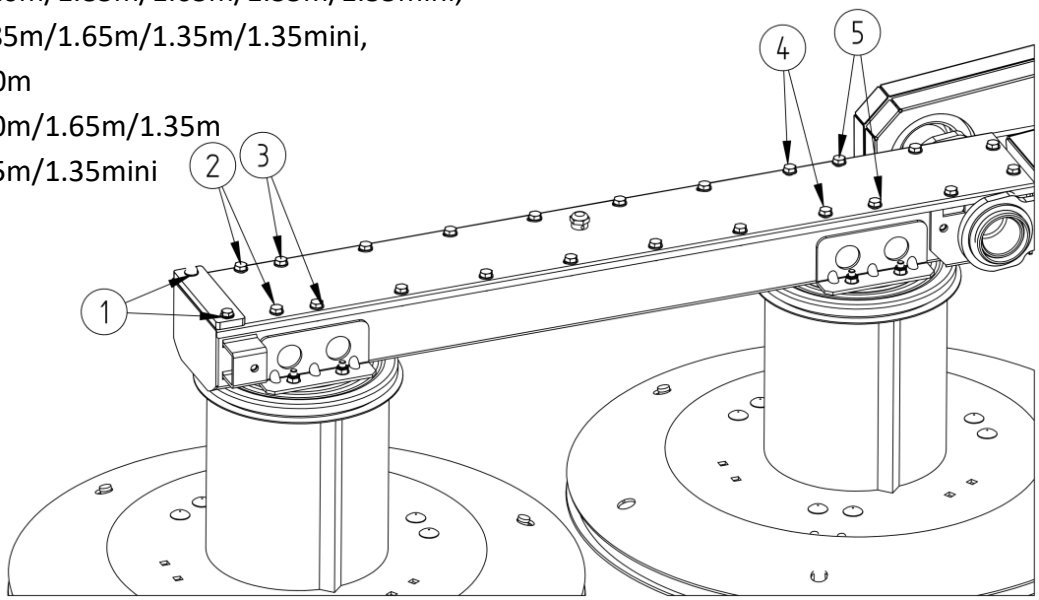
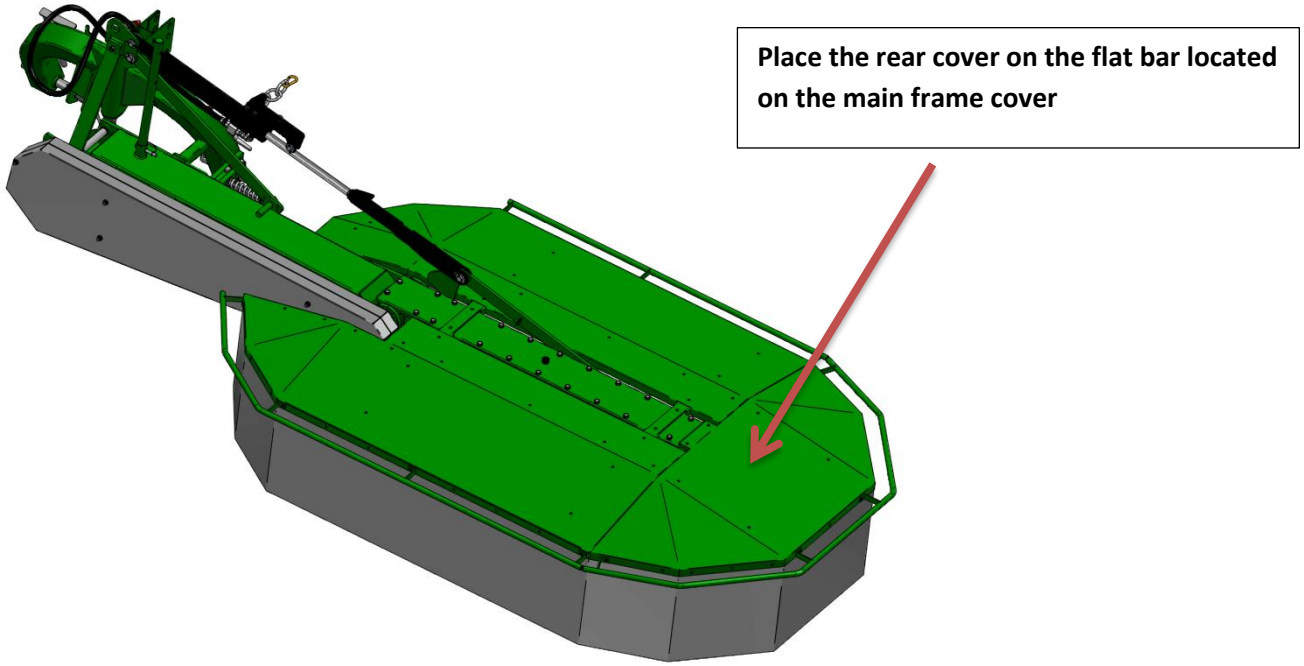


Figure 41 Metal covers assembly – STEP X

1) STEP XI

Adjust the cover to the "free holes" from STEP X and fix it with the bolt elements used in STEP X



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STEP XII

Connect the scythe-connector with the milled connector (in hydr. model: with hydraulic cylinder), reversing the order described in STEP IX.

After adjusting the cover to the mower, tighten all the bolted joints according to Table 3.

A) B)

Figure 42 Proper mounting of the hydraulic cylinder in the scythe-connector: A) mower 1.85m with hydraulic cylinder; B) mower 1.65m with hydraulic cylinder

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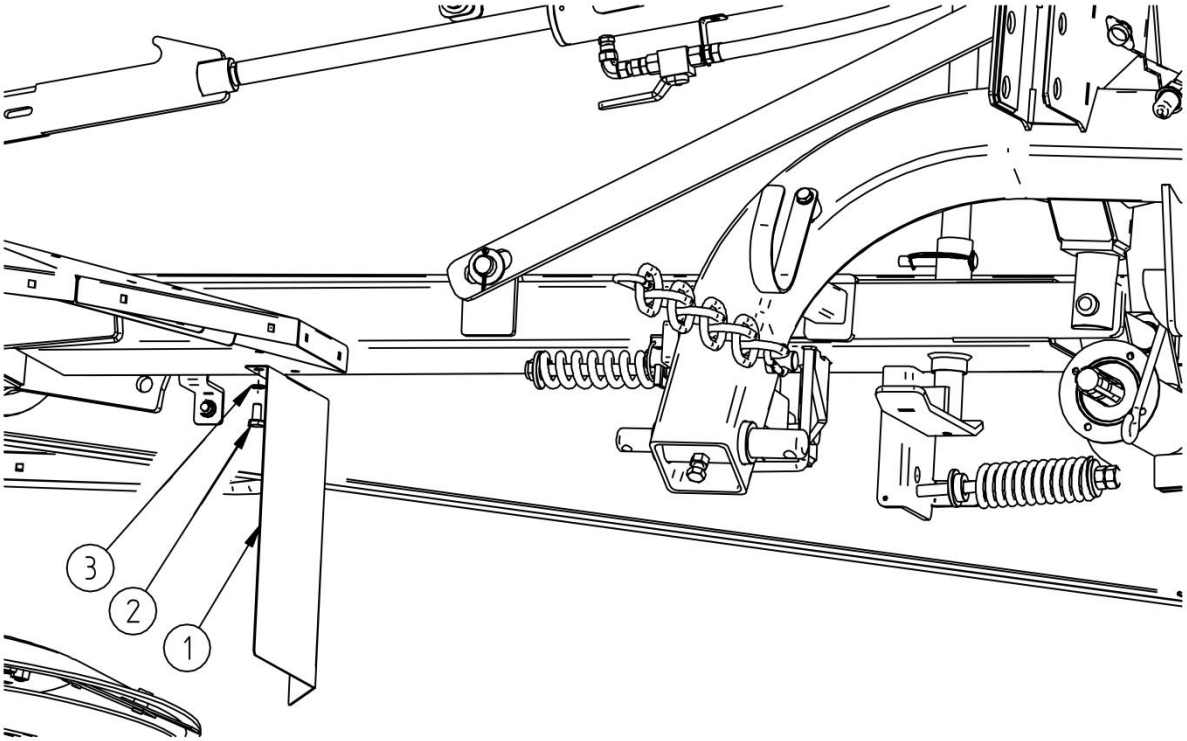
STEP XIII

Fix the front cover to the main frame (Fig. 43).



Item No.	Name
1	Front cover
2	Bolt 6-cat. M10x25 – 8,8 galv.
3	Flat washer M10 galv.

*galv. – galvanized coating

Figure 43 Front cover assembly

No.	Name	Type	Part no.	Quantity/Type of mower [pcs.]				
				2.10	1.85	1.65	1.35	1.35mini
1	Saucer head bolt	M8x25	T000826	71		63	62	62
		M8x20	T000825	2		2	2	2
2	Bolt 6-cat.	M8x16	T000803	6		6	6	6
		M8x20	T000804	2		2	2	2
3	Nut 6-cat. self. galv.	M8	T000256	81		73	72	72
4	Simple washer galv.	M8	T000471	54		48	46	46
5	Extensional washer galv.	M10	T000457	39	35	33	34	34

*galv. – galvanized coating

Table 17 Summary of the bolting elements included in the cover set

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10. Warranty

WARRANTY CARD

Factory no.	……	Model	……
Year of construction	……	KJ	……

Under warranty, the manufacturer undertakes to repair free of charge any physical defects revealed during the warranty period, which lasts for 12 months from the date of sale.
The manufacturer is exempt from any liability under the warranty in the case of:

- Mechanical damage of the machine, which occurred after it was delivered to the user;
- Improper use, maintenance, storage of the machine, in particular if not compliant with the User Manual;
- Execution of any repairs by unauthorized persons and without the consent of the manufacturer;
- Implementation of any design modifications without the consent of the manufacturer.

Warranty card is valid if it has the signature of the seller, and the date of sale confirmed by the official stamp of the dealer. It must not contain any deletions or corrections made by unauthorized persons.
A duplicate of the warranty card may be issued upon written request of the user, who should present the valid proof of purchase.
In the case of ineligible call for the warranty service, any incurred costs shall be borne by the user. The user must report any complaints immediately after the damage, directly to the dealer or to the manufacturer.
The manufacturer provides warranty service within 14 days from the date, when the complaint has been received. The warranty period becomes extended for the time it took to repair the machine, calculated from the date of filing the complaint until the date of service repair, providing that the defect prevented the actual use of the machine.
The warranty does not cover any normal wear of parts such as: bearings, tarpaulin covers, fasteners, cutting blades, sliding plates, V-belts.

Date of sale: _____ _____

(Day, month, year) *(Signature and stamp of a dealer)*

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11. Records of warranty repairs

To be filled by the manufacturer

Date of complaint claim: _____ *The scope of repair and parts used:* _____ _____ _____ _____ *Date of complaint resolution:* _____ *Warranty period extended until:* _____ _____ *(Dealer's signature and stamp)*	*Date of complaint claim:* _____ *The scope of repair and parts used:* _____ _____ _____ _____ *Date of complaint resolution:* _____ *Warranty period extended until:* _____ _____ *(Dealer's signature and stamp)*
Date of complaint claim: _____ *The scope of repair and parts used:* _____ _____ _____ _____ *Date of complaint resolution:* _____ *Warranty period extended until:* _____ _____ *(Dealer's signature and stamp)*	*Date of complaint claim:* _____ *The scope of repair and parts used:* _____ _____ _____ _____ *Date of complaint resolution:* _____ *Warranty period extended until:* _____ _____ *(Dealer's signature and stamp)*

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12. Warranty form

WARRANTY FORM NO. ……

Full name :…..

Address:.....

Postal code :…….....

City :…….....

Telephone No. :…….....

Email address :…….....

Means of complaint claim:……..……...

Name of the subject of complaint: .....

Name of the dealer :…….....

Proof of purchase - VAT invoice no. .....dated .....20……..

Description of fault / damage :…….....

.....

.....

The agreed date for the complaint resolution :…….....

Means and time of the complaint resolution :…….
……...
……...

Date the fault occurred / was discovered: .....20.....

.....
Date, full name

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13. Declaration of conformity

DECLARATION OF CONFORMITY WE

Manufacturer
Talex Sp. z o.o. Spółka komandytowa
ul. Dworcowa 9C
77-141 Borzytuchom

Hereby we certify that the machine:
Machine name: **Eco CUT**
Machine model: **Z-042/3, Z-042/2, Z-042/1, Z-042, and Z-080**

to which this declaration relates, meets the requirements of the *Regulation of the Minister of Economy, dated 20th December 2005, on the essential requirements for machinery and safety components (OJ259 item 2170*) and of the *European Union Directive 98/37EC.*

Due to the Directive requirements regarding safety and occupational health, the following standards have been taken into when designing and building the machine:

PN-EN ISO 12100-1:2005, PN-EN ISO 12100-2:2005, EN 294:1994, PN-EN ISO 4251-1, PN-EN 745:2002

This declaration of conformity shall cease to be valid, if the machine is modified in any way without the consent of Talex Sp. z o.o. Sp. komandytowa.

Date and place	Owner
31.01.2007, Borzytuchom	Karol Jaworski